

Pantheon Report

Generated at 2018-07-03 22:11:25 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

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

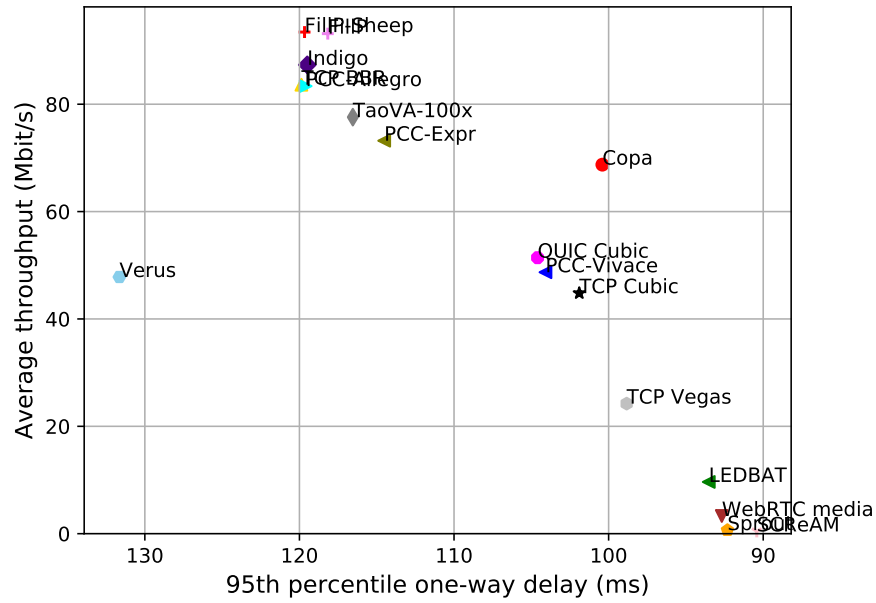
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

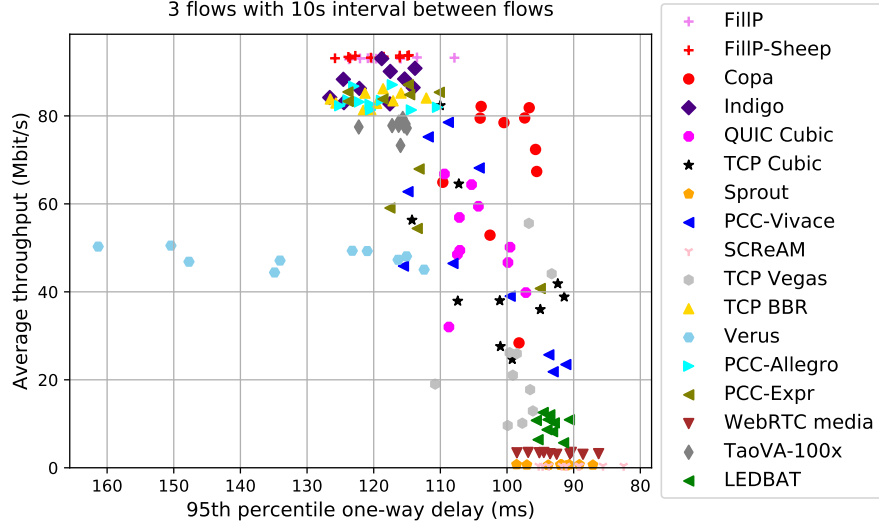
Git summary:

```
branch: master @ 9250dbeec7fb57193cdff1ba8c440b4e16ab30f0
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ 37162fe9af85249aeccac061c93e75640ef710b5
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webRTC @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



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



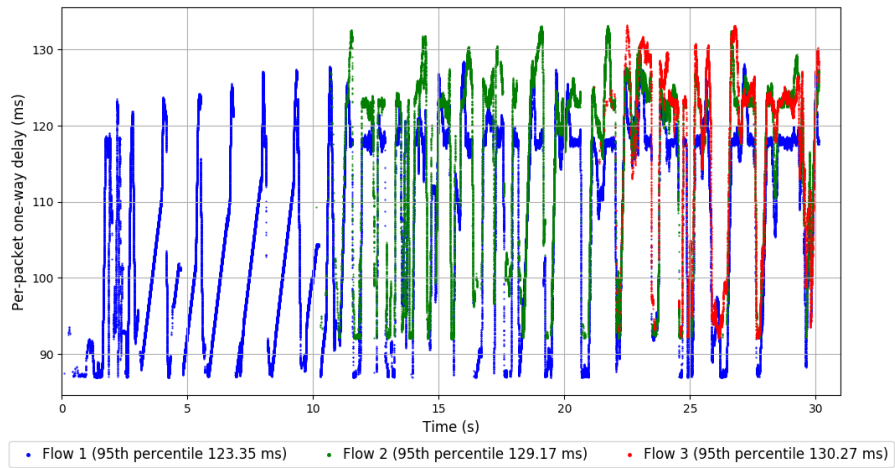
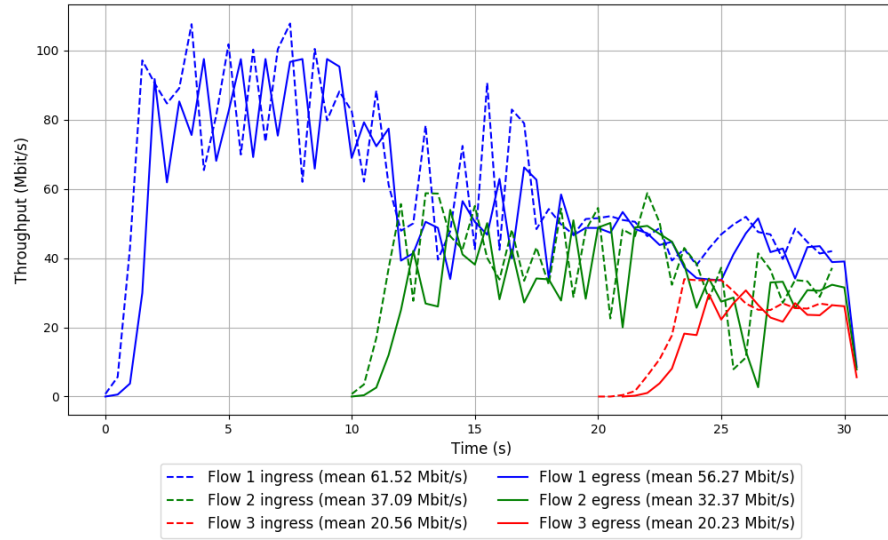
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	52.46	35.99	21.92	118.37	119.48	120.84	8.05	12.43	13.09
Copa	10	50.50	17.11	20.60	99.18	100.73	99.29	0.64	0.47	0.31
TCP Cubic	10	20.39	22.15	29.07	100.43	102.04	103.81	0.76	1.16	1.54
FillP	10	59.98	39.07	21.75	116.71	118.92	117.38	17.43	20.53	18.04
FillP-Sheep	10	58.87	36.21	31.76	118.11	120.10	119.32	15.71	26.15	29.37
Indigo	10	55.58	35.13	26.29	117.85	119.33	120.12	6.29	14.42	26.31
LEDBAT	10	4.84	5.47	3.53	92.98	93.67	91.19	0.13	0.14	0.08
PCC-Allegro	10	64.80	24.46	7.01	118.21	119.84	120.65	3.33	3.79	5.47
PCC-Expr	10	55.26	22.89	8.25	114.57	114.06	117.10	2.97	2.73	4.06
QUIC Cubic	10	26.17	27.48	21.41	100.14	105.23	105.95	0.84	1.44	1.47
SCReAM	10	0.21	0.21	0.22	89.22	90.18	91.09	0.04	0.16	0.01
Sprout	10	0.33	0.32	0.38	89.26	92.82	91.78	0.06	0.14	0.01
TaoVA-100x	10	46.20	36.05	22.22	115.51	116.49	115.29	4.01	6.96	9.50
TCP Vegas	10	9.20	13.66	17.86	96.78	99.21	100.66	0.67	1.11	1.22
Verus	10	26.46	23.74	18.86	126.51	126.92	129.52	39.70	35.37	33.82
PCC-Vivace	10	29.78	24.09	8.80	100.31	104.19	106.36	0.34	0.49	0.44
WebRTC media	10	1.89	1.14	0.28	92.21	91.32	91.30	0.09	0.06	0.11

Run 1: Statistics of TCP BBR

Start at: 2018-07-03 18:35:51
End at: 2018-07-03 18:36:21
Local clock offset: -1.85 ms
Remote clock offset: 13.306 ms

Below is generated by plot.py at 2018-07-03 21:52:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.84 Mbit/s
95th percentile per-packet one-way delay: 126.507 ms
Loss rate: 9.80%
-- Flow 1:
Average throughput: 56.27 Mbit/s
95th percentile per-packet one-way delay: 123.353 ms
Loss rate: 8.44%
-- Flow 2:
Average throughput: 32.37 Mbit/s
95th percentile per-packet one-way delay: 129.166 ms
Loss rate: 12.66%
-- Flow 3:
Average throughput: 20.23 Mbit/s
95th percentile per-packet one-way delay: 130.273 ms
Loss rate: 11.77%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-07-03 18:56:58

End at: 2018-07-03 18:57:28

Local clock offset: -1.954 ms

Remote clock offset: 6.736 ms

Below is generated by plot.py at 2018-07-03 21:52:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.44 Mbit/s

95th percentile per-packet one-way delay: 117.099 ms

Loss rate: 10.91%

-- Flow 1:

Average throughput: 48.73 Mbit/s

95th percentile per-packet one-way delay: 115.079 ms

Loss rate: 7.66%

-- Flow 2:

Average throughput: 40.45 Mbit/s

95th percentile per-packet one-way delay: 117.576 ms

Loss rate: 14.84%

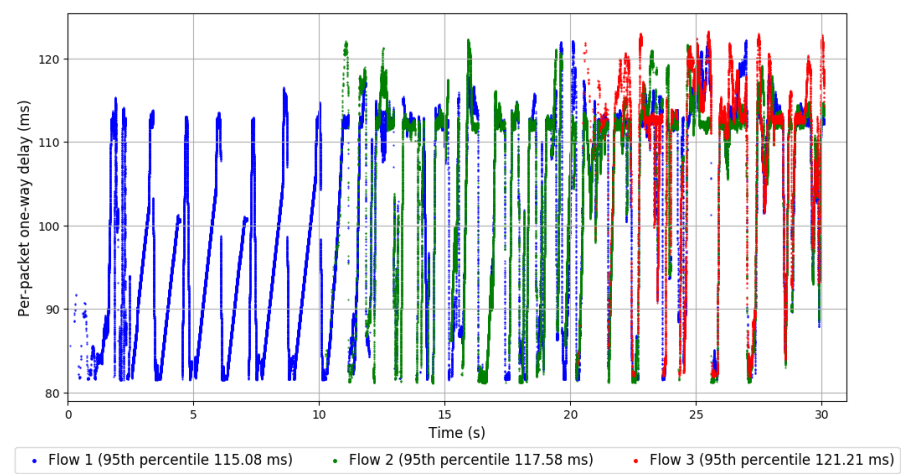
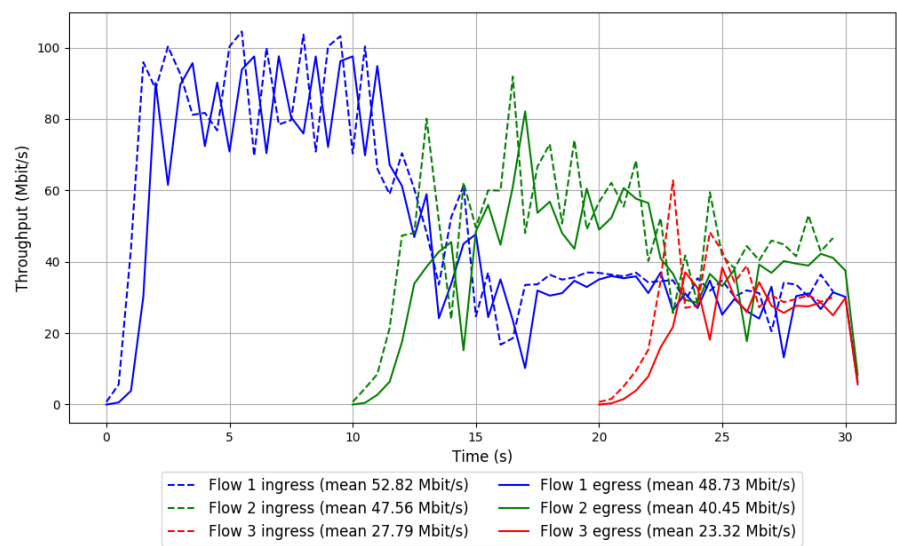
-- Flow 3:

Average throughput: 23.32 Mbit/s

95th percentile per-packet one-way delay: 121.208 ms

Loss rate: 16.02%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-07-03 19:18:08

End at: 2018-07-03 19:18:38

Local clock offset: -2.1 ms

Remote clock offset: 6.651 ms

Below is generated by plot.py at 2018-07-03 21:52:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.27 Mbit/s

95th percentile per-packet one-way delay: 121.569 ms

Loss rate: 11.61%

-- Flow 1:

Average throughput: 50.39 Mbit/s

95th percentile per-packet one-way delay: 121.641 ms

Loss rate: 9.15%

-- Flow 2:

Average throughput: 31.66 Mbit/s

95th percentile per-packet one-way delay: 120.196 ms

Loss rate: 14.66%

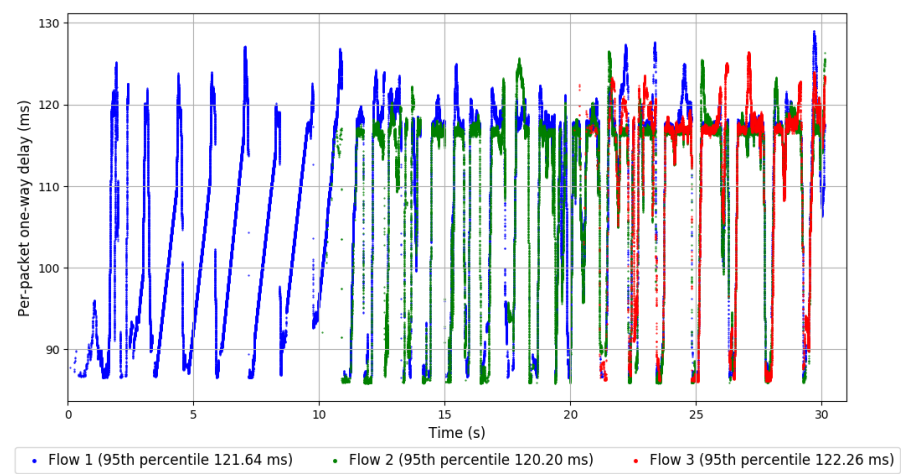
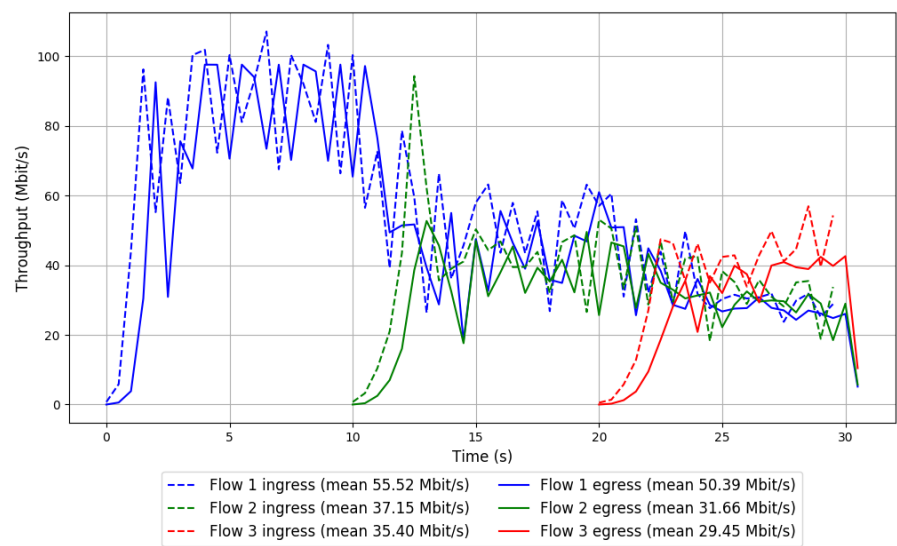
-- Flow 3:

Average throughput: 29.45 Mbit/s

95th percentile per-packet one-way delay: 122.262 ms

Loss rate: 16.81%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-07-03 19:39:14

End at: 2018-07-03 19:39:44

Local clock offset: -2.205 ms

Remote clock offset: 8.752 ms

Below is generated by plot.py at 2018-07-03 21:52:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.93 Mbit/s

95th percentile per-packet one-way delay: 125.673 ms

Loss rate: 8.50%

-- Flow 1:

Average throughput: 52.72 Mbit/s

95th percentile per-packet one-way delay: 126.198 ms

Loss rate: 7.15%

-- Flow 2:

Average throughput: 41.54 Mbit/s

95th percentile per-packet one-way delay: 125.301 ms

Loss rate: 11.07%

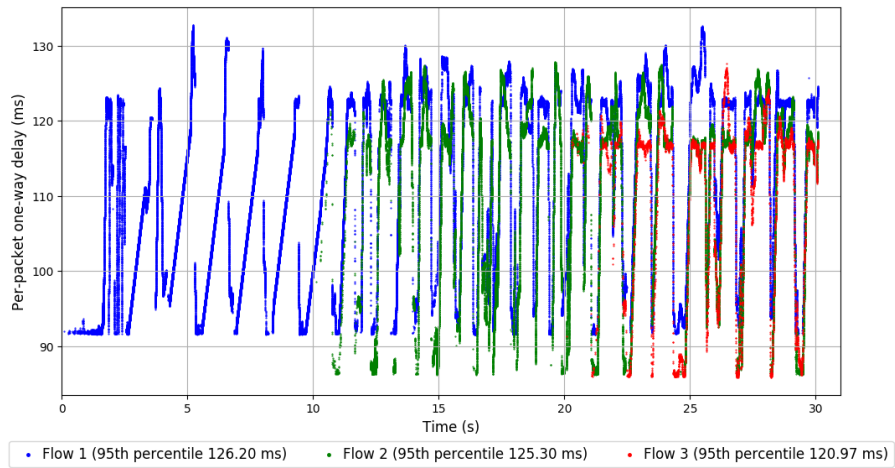
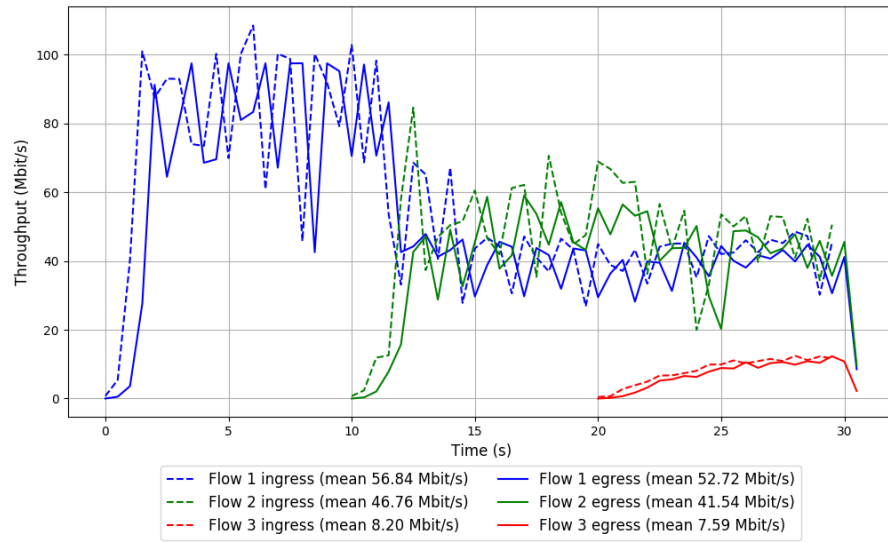
-- Flow 3:

Average throughput: 7.59 Mbit/s

95th percentile per-packet one-way delay: 120.969 ms

Loss rate: 7.22%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-07-03 20:00:17

End at: 2018-07-03 20:00:47

Local clock offset: -2.197 ms

Remote clock offset: 7.198 ms

Below is generated by plot.py at 2018-07-03 21:52:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.18 Mbit/s

95th percentile per-packet one-way delay: 121.306 ms

Loss rate: 9.32%

-- Flow 1:

Average throughput: 50.65 Mbit/s

95th percentile per-packet one-way delay: 119.518 ms

Loss rate: 7.33%

-- Flow 2:

Average throughput: 40.88 Mbit/s

95th percentile per-packet one-way delay: 122.104 ms

Loss rate: 12.32%

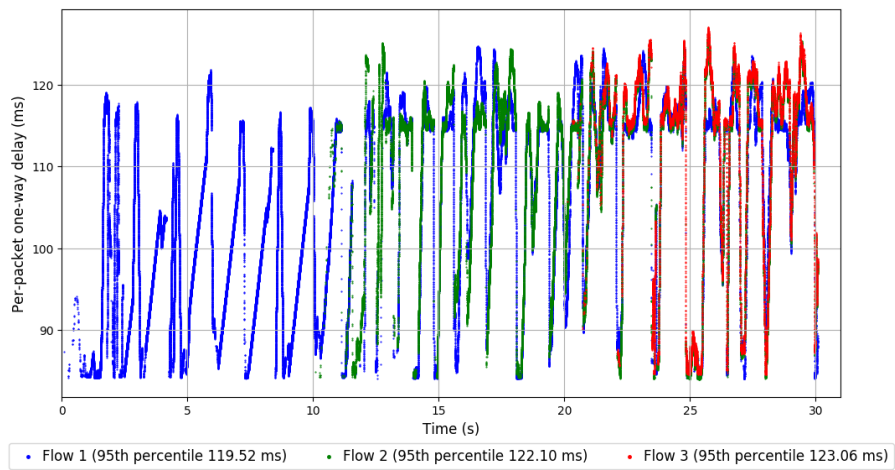
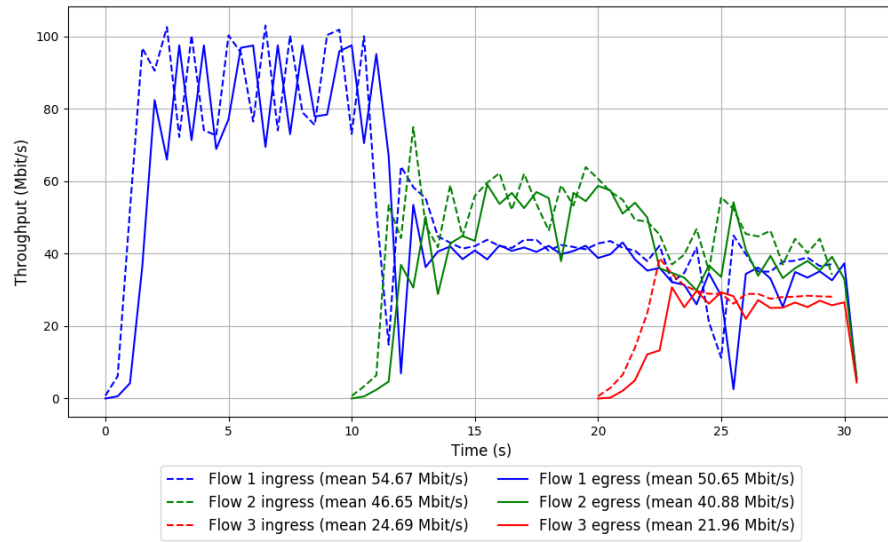
-- Flow 3:

Average throughput: 21.96 Mbit/s

95th percentile per-packet one-way delay: 123.057 ms

Loss rate: 11.16%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-07-03 20:21:16

End at: 2018-07-03 20:21:46

Local clock offset: -2.574 ms

Remote clock offset: 5.922 ms

Below is generated by plot.py at 2018-07-03 21:52:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.39 Mbit/s

95th percentile per-packet one-way delay: 120.421 ms

Loss rate: 9.40%

-- Flow 1:

Average throughput: 48.96 Mbit/s

95th percentile per-packet one-way delay: 120.145 ms

Loss rate: 7.73%

-- Flow 2:

Average throughput: 38.81 Mbit/s

95th percentile per-packet one-way delay: 121.126 ms

Loss rate: 11.10%

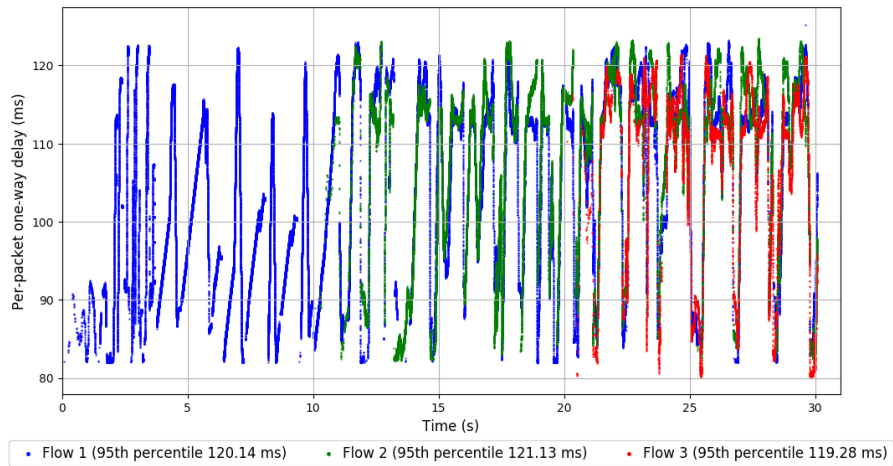
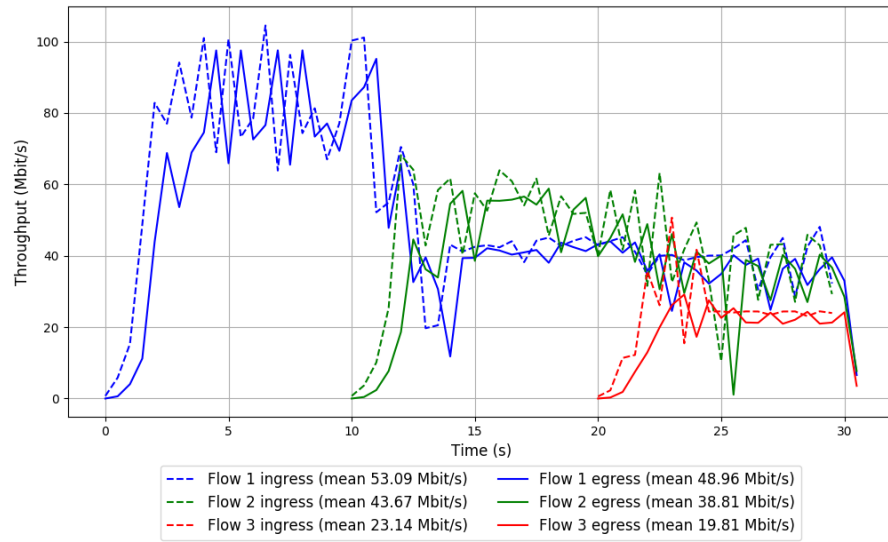
-- Flow 3:

Average throughput: 19.81 Mbit/s

95th percentile per-packet one-way delay: 119.275 ms

Loss rate: 14.54%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-07-03 20:42:23

End at: 2018-07-03 20:42:53

Local clock offset: -2.832 ms

Remote clock offset: 6.689 ms

Below is generated by plot.py at 2018-07-03 21:52:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.85 Mbit/s

95th percentile per-packet one-way delay: 119.556 ms

Loss rate: 9.28%

-- Flow 1:

Average throughput: 54.60 Mbit/s

95th percentile per-packet one-way delay: 117.215 ms

Loss rate: 8.09%

-- Flow 2:

Average throughput: 32.73 Mbit/s

95th percentile per-packet one-way delay: 118.604 ms

Loss rate: 12.33%

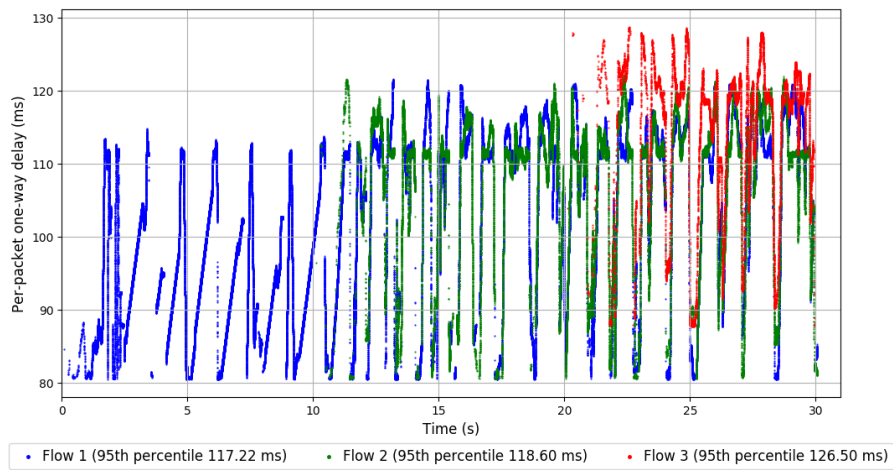
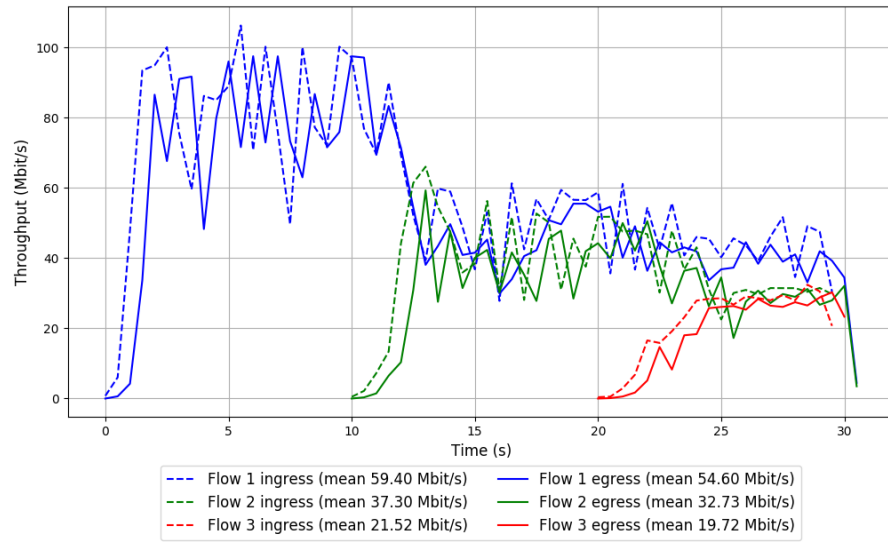
-- Flow 3:

Average throughput: 19.72 Mbit/s

95th percentile per-packet one-way delay: 126.496 ms

Loss rate: 8.51%

Run 7: Report of TCP BBR — Data Link

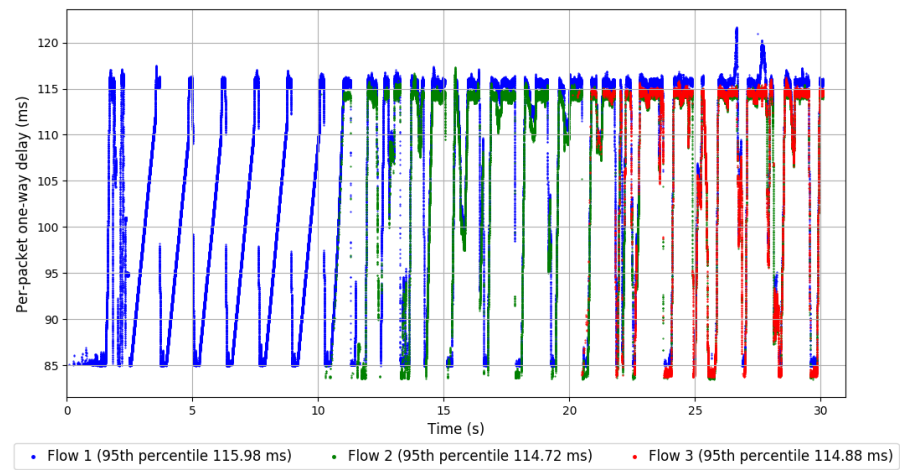
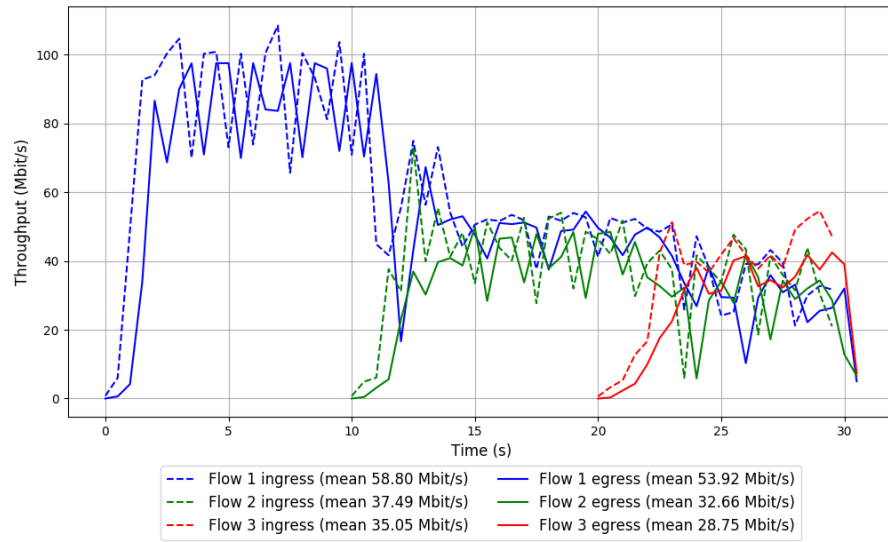


Run 8: Statistics of TCP BBR

Start at: 2018-07-03 21:03:30
End at: 2018-07-03 21:04:00
Local clock offset: -3.239 ms
Remote clock offset: 10.153 ms

Below is generated by plot.py at 2018-07-03 21:52:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.19 Mbit/s
95th percentile per-packet one-way delay: 115.898 ms
Loss rate: 10.63%
-- Flow 1:
Average throughput: 53.92 Mbit/s
95th percentile per-packet one-way delay: 115.983 ms
Loss rate: 8.21%
-- Flow 2:
Average throughput: 32.66 Mbit/s
95th percentile per-packet one-way delay: 114.725 ms
Loss rate: 12.88%
-- Flow 3:
Average throughput: 28.75 Mbit/s
95th percentile per-packet one-way delay: 114.882 ms
Loss rate: 17.98%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-03 21:24:39

End at: 2018-07-03 21:25:09

Local clock offset: -2.256 ms

Remote clock offset: 3.899 ms

Below is generated by plot.py at 2018-07-03 21:53:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.18 Mbit/s

95th percentile per-packet one-way delay: 118.591 ms

Loss rate: 9.65%

-- Flow 1:

Average throughput: 57.73 Mbit/s

95th percentile per-packet one-way delay: 113.285 ms

Loss rate: 8.34%

-- Flow 2:

Average throughput: 30.94 Mbit/s

95th percentile per-packet one-way delay: 111.719 ms

Loss rate: 11.40%

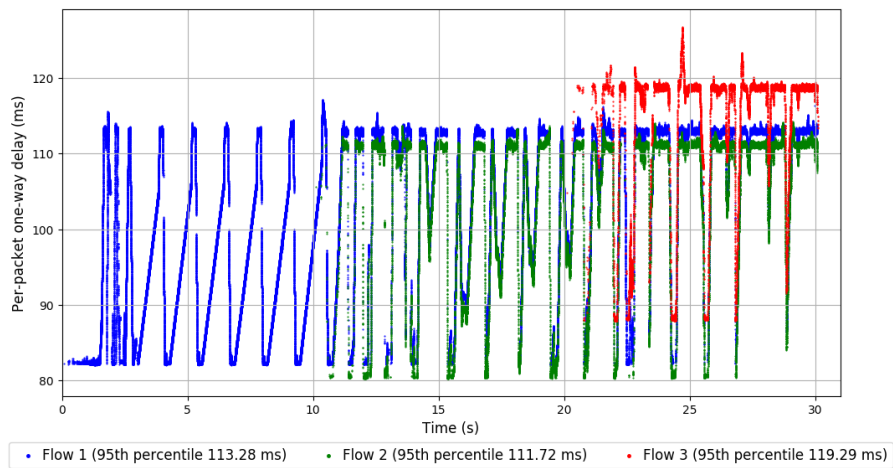
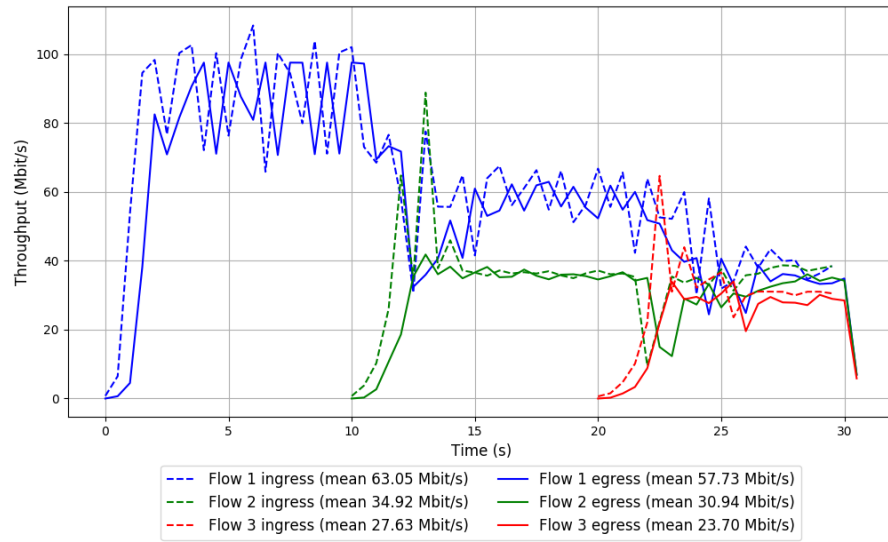
-- Flow 3:

Average throughput: 23.70 Mbit/s

95th percentile per-packet one-way delay: 119.293 ms

Loss rate: 14.18%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-07-03 21:45:53

End at: 2018-07-03 21:46:23

Local clock offset: -2.26 ms

Remote clock offset: 5.3 ms

Below is generated by plot.py at 2018-07-03 21:53:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.06 Mbit/s

95th percentile per-packet one-way delay: 112.110 ms

Loss rate: 9.66%

-- Flow 1:

Average throughput: 50.59 Mbit/s

95th percentile per-packet one-way delay: 111.299 ms

Loss rate: 8.44%

-- Flow 2:

Average throughput: 37.91 Mbit/s

95th percentile per-packet one-way delay: 114.272 ms

Loss rate: 11.01%

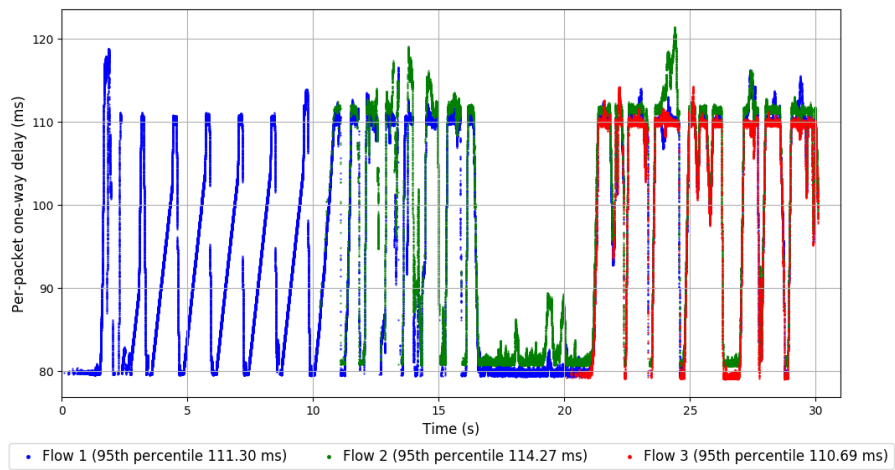
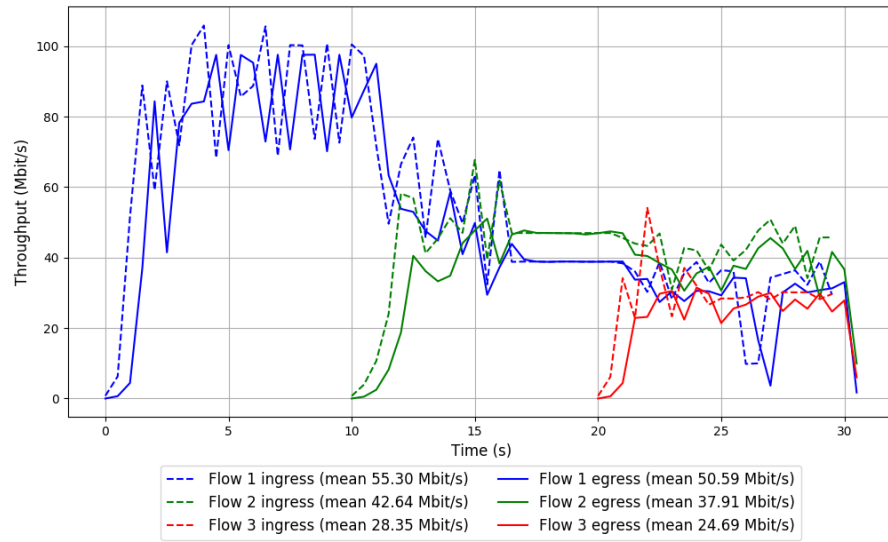
-- Flow 3:

Average throughput: 24.69 Mbit/s

95th percentile per-packet one-way delay: 110.686 ms

Loss rate: 12.73%

Run 10: Report of TCP BBR — Data Link

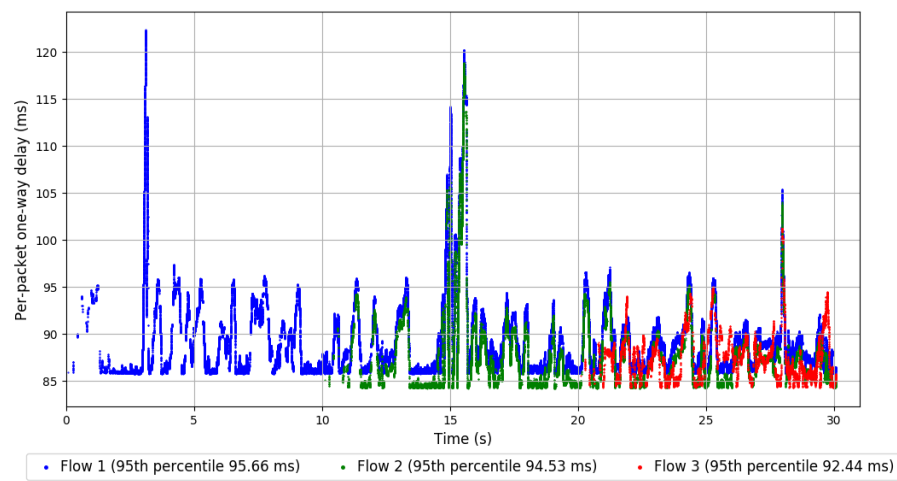
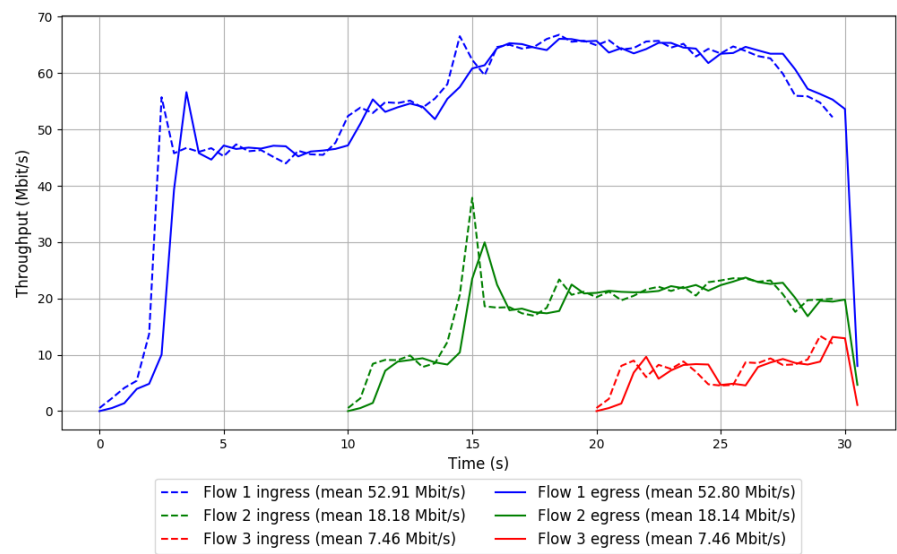


Run 1: Statistics of Copa

Start at: 2018-07-03 18:30:49
End at: 2018-07-03 18:31:19
Local clock offset: -1.871 ms
Remote clock offset: 13.145 ms

Below is generated by plot.py at 2018-07-03 21:54:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 67.36 Mbit/s
95th percentile per-packet one-way delay: 95.547 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 52.80 Mbit/s
95th percentile per-packet one-way delay: 95.656 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 18.14 Mbit/s
95th percentile per-packet one-way delay: 94.533 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 7.46 Mbit/s
95th percentile per-packet one-way delay: 92.440 ms
Loss rate: 0.04%

Run 1: Report of Copa — Data Link

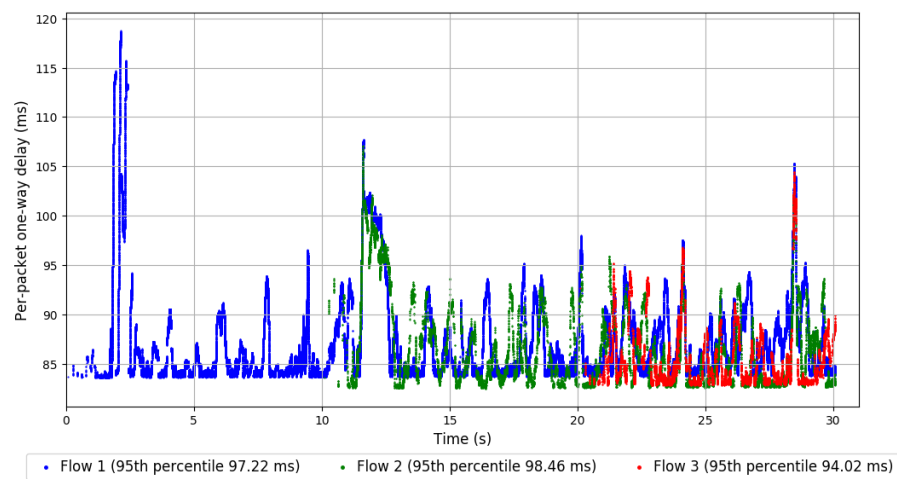
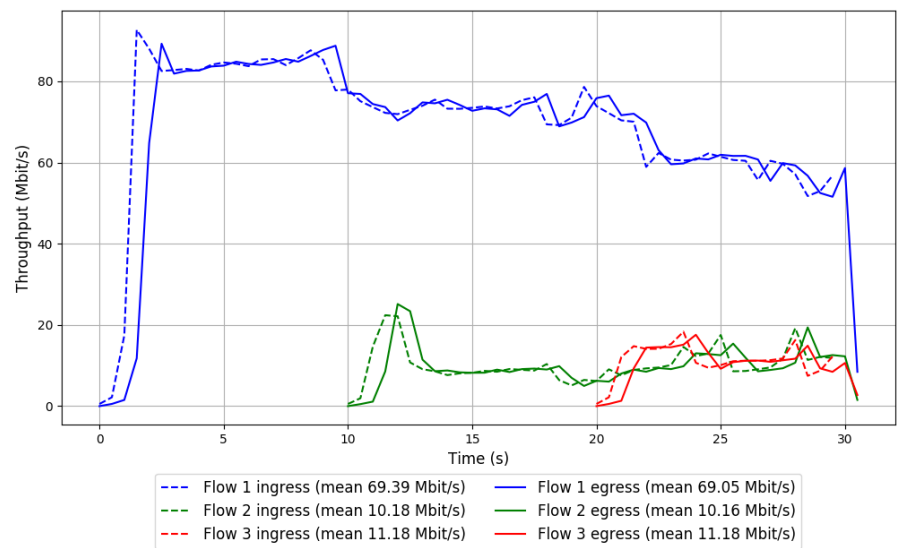


Run 2: Statistics of Copa

Start at: 2018-07-03 18:51:55
End at: 2018-07-03 18:52:25
Local clock offset: -2.008 ms
Remote clock offset: 8.756 ms

Below is generated by plot.py at 2018-07-03 21:54:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.53 Mbit/s
95th percentile per-packet one-way delay: 97.350 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 69.05 Mbit/s
95th percentile per-packet one-way delay: 97.219 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 10.16 Mbit/s
95th percentile per-packet one-way delay: 98.461 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 11.18 Mbit/s
95th percentile per-packet one-way delay: 94.024 ms
Loss rate: 0.04%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-07-03 19:13:04

End at: 2018-07-03 19:13:34

Local clock offset: -1.997 ms

Remote clock offset: 6.832 ms

Below is generated by plot.py at 2018-07-03 21:54:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.47 Mbit/s

95th percentile per-packet one-way delay: 100.459 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 60.69 Mbit/s

95th percentile per-packet one-way delay: 99.511 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 20.03 Mbit/s

95th percentile per-packet one-way delay: 101.671 ms

Loss rate: 0.20%

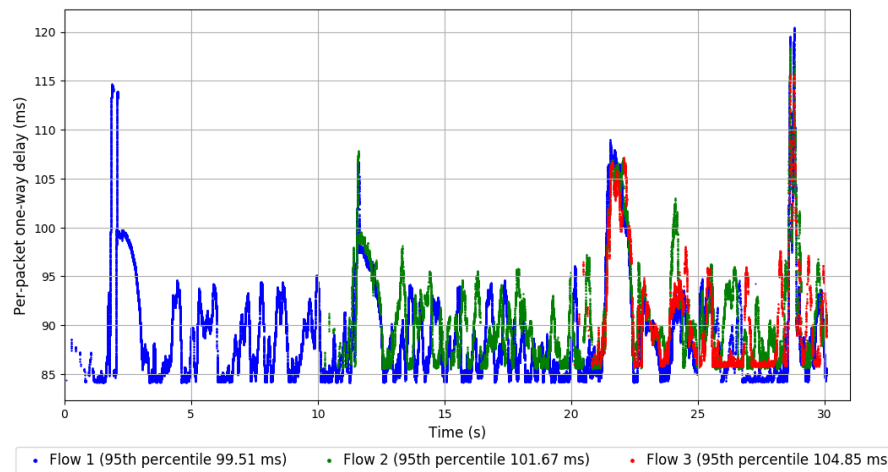
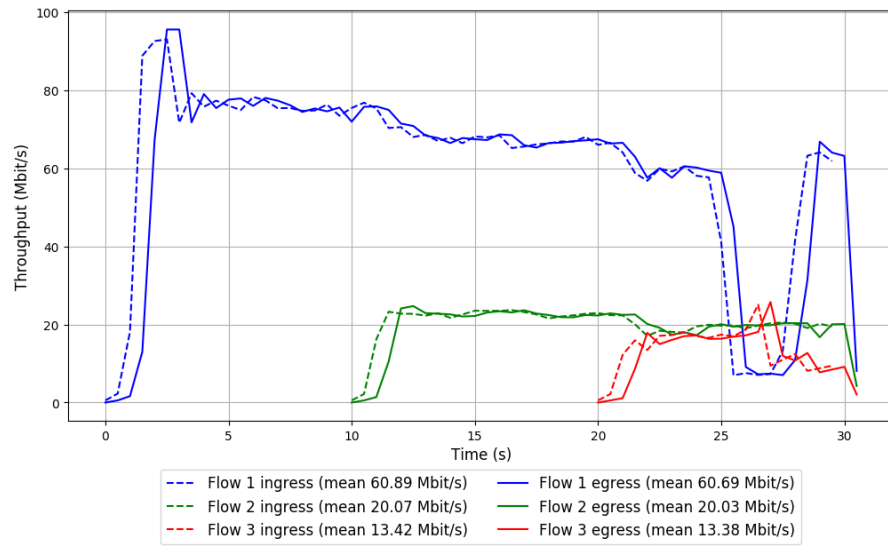
-- Flow 3:

Average throughput: 13.38 Mbit/s

95th percentile per-packet one-way delay: 104.849 ms

Loss rate: 0.30%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-07-03 19:34:13

End at: 2018-07-03 19:34:43

Local clock offset: -2.2 ms

Remote clock offset: 3.168 ms

Below is generated by plot.py at 2018-07-03 21:54:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.49 Mbit/s

95th percentile per-packet one-way delay: 104.029 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 43.10 Mbit/s

95th percentile per-packet one-way delay: 99.528 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 32.89 Mbit/s

95th percentile per-packet one-way delay: 104.298 ms

Loss rate: 0.89%

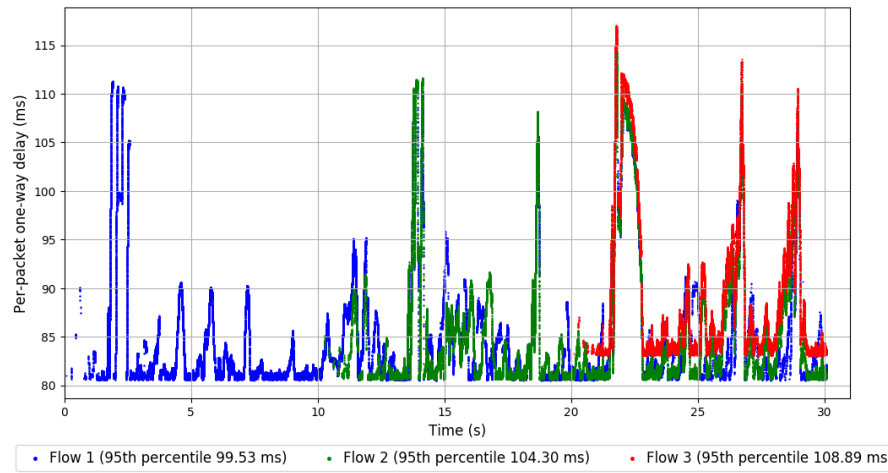
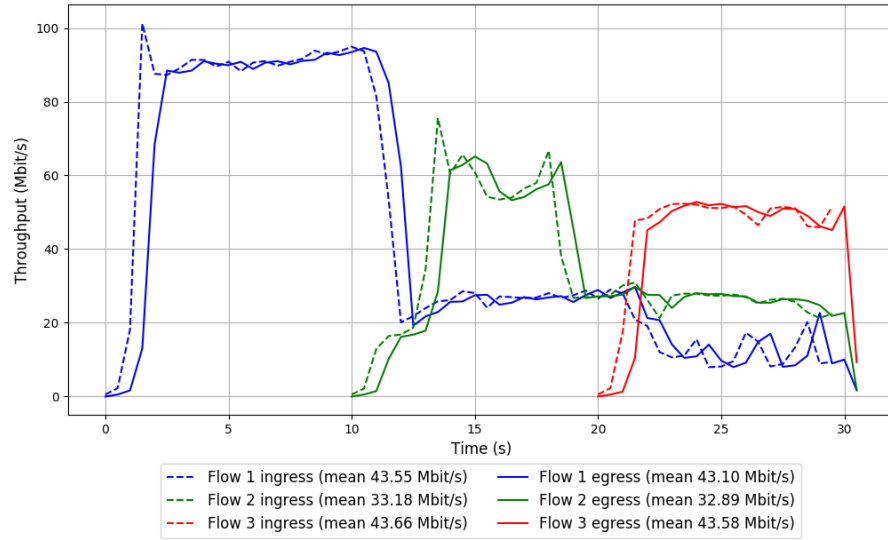
-- Flow 3:

Average throughput: 43.58 Mbit/s

95th percentile per-packet one-way delay: 108.887 ms

Loss rate: 0.19%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-07-03 19:55:16

End at: 2018-07-03 19:55:46

Local clock offset: -2.245 ms

Remote clock offset: 5.794 ms

Below is generated by plot.py at 2018-07-03 21:54:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.88 Mbit/s

95th percentile per-packet one-way delay: 102.554 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 35.57 Mbit/s

95th percentile per-packet one-way delay: 104.372 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 12.54 Mbit/s

95th percentile per-packet one-way delay: 96.270 ms

Loss rate: 0.24%

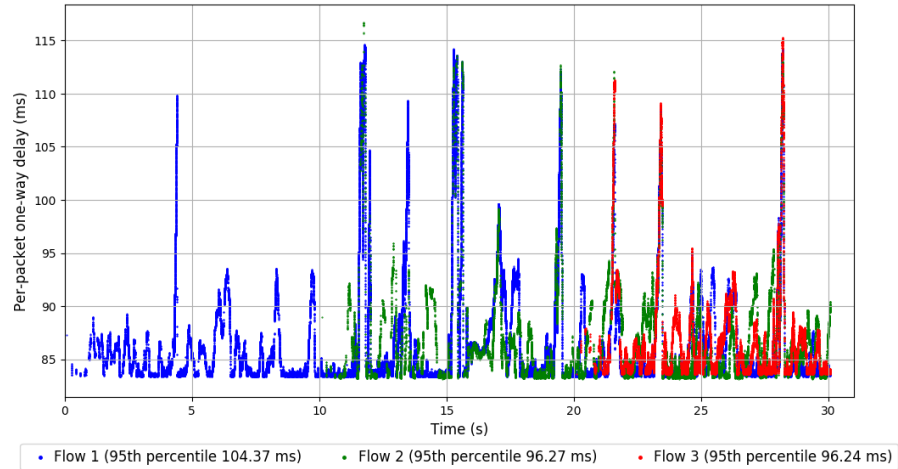
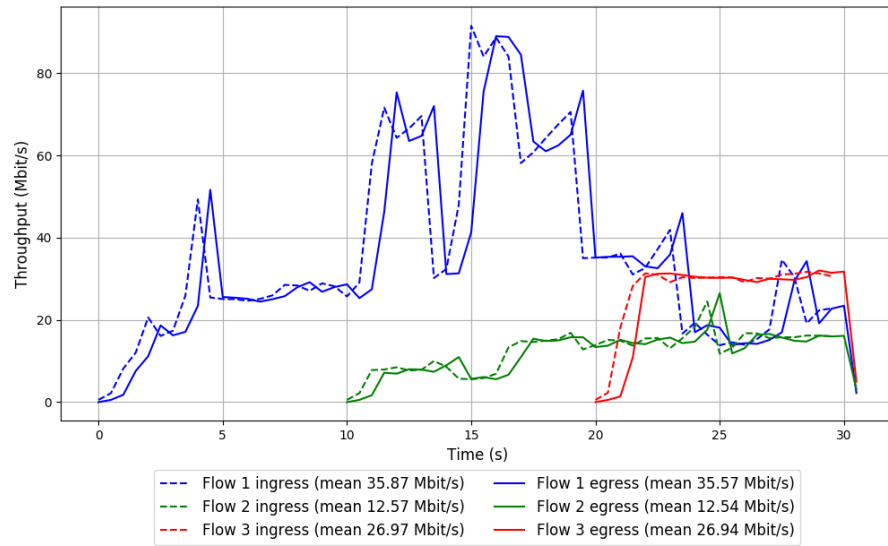
-- Flow 3:

Average throughput: 26.94 Mbit/s

95th percentile per-packet one-way delay: 96.241 ms

Loss rate: 0.10%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-07-03 20:16:17

End at: 2018-07-03 20:16:47

Local clock offset: -2.408 ms

Remote clock offset: 9.676 ms

Below is generated by plot.py at 2018-07-03 21:54:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 28.39 Mbit/s

95th percentile per-packet one-way delay: 98.201 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 15.10 Mbit/s

95th percentile per-packet one-way delay: 94.927 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 13.36 Mbit/s

95th percentile per-packet one-way delay: 99.529 ms

Loss rate: 0.34%

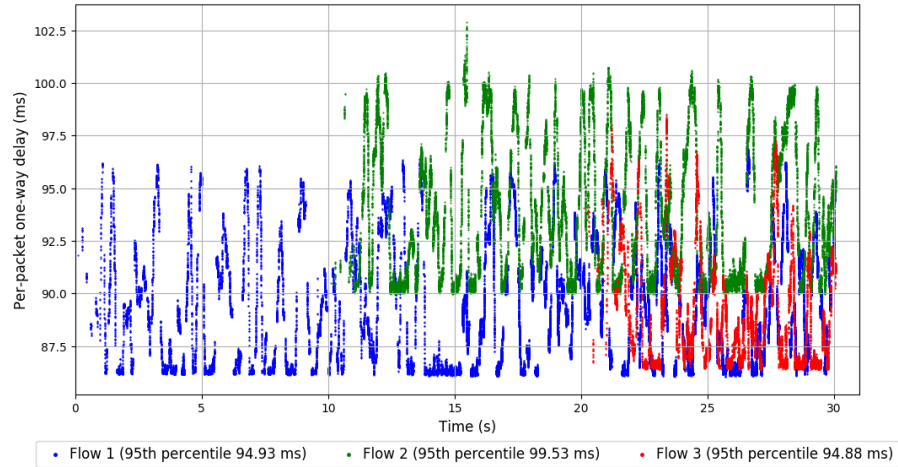
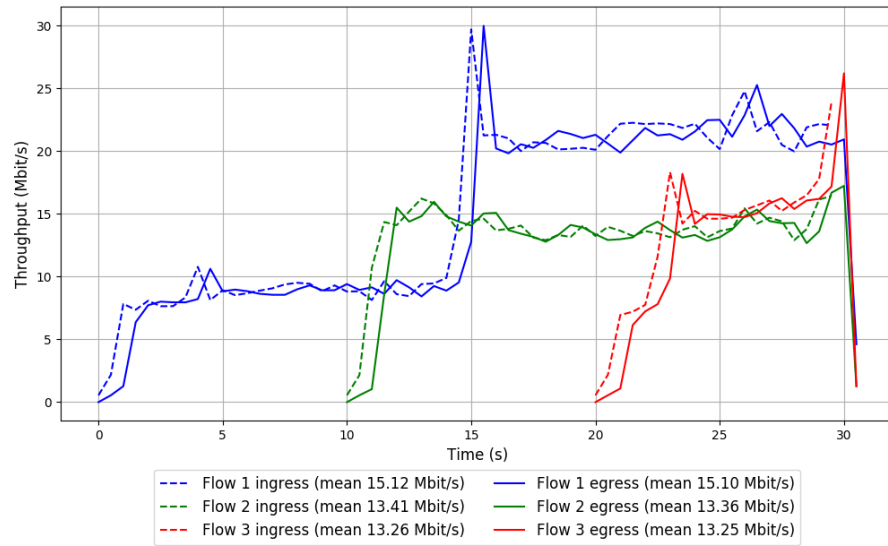
-- Flow 3:

Average throughput: 13.25 Mbit/s

95th percentile per-packet one-way delay: 94.880 ms

Loss rate: 0.14%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-07-03 20:37:16

End at: 2018-07-03 20:37:46

Local clock offset: -2.759 ms

Remote clock offset: 6.461 ms

Below is generated by plot.py at 2018-07-03 21:55:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.37 Mbit/s

95th percentile per-packet one-way delay: 95.721 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 52.41 Mbit/s

95th percentile per-packet one-way delay: 93.081 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 22.75 Mbit/s

95th percentile per-packet one-way delay: 103.004 ms

Loss rate: 0.49%

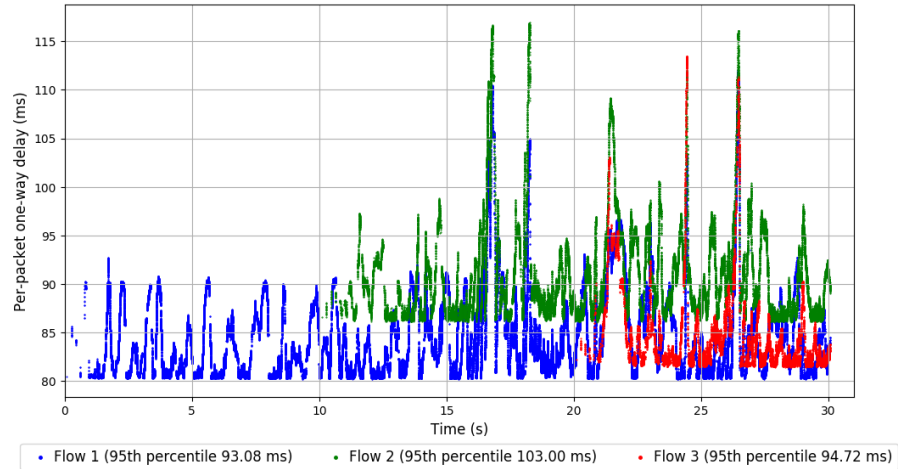
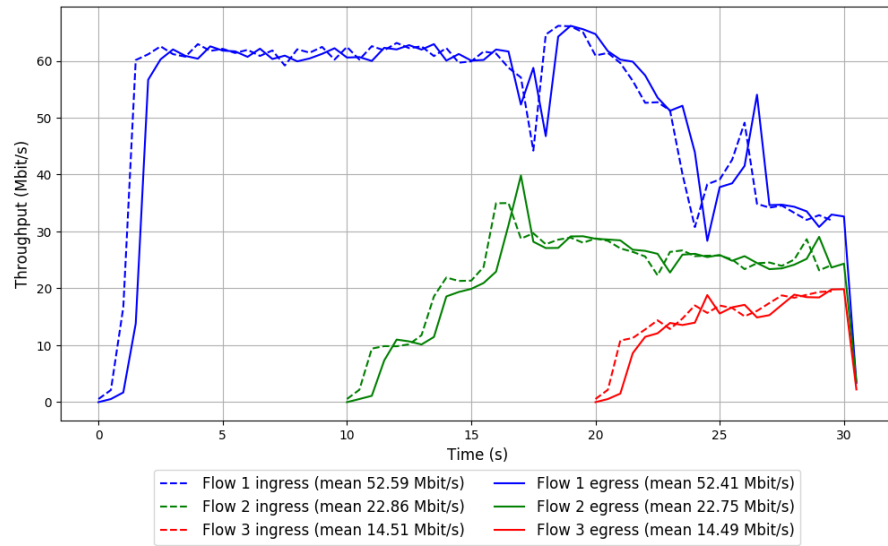
-- Flow 3:

Average throughput: 14.49 Mbit/s

95th percentile per-packet one-way delay: 94.719 ms

Loss rate: 0.13%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-07-03 20:58:23

End at: 2018-07-03 20:58:53

Local clock offset: -3.122 ms

Remote clock offset: 7.083 ms

Below is generated by plot.py at 2018-07-03 21:55:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.91 Mbit/s

95th percentile per-packet one-way delay: 109.633 ms

Loss rate: 1.89%

-- Flow 1:

Average throughput: 33.79 Mbit/s

95th percentile per-packet one-way delay: 106.733 ms

Loss rate: 1.74%

-- Flow 2:

Average throughput: 19.50 Mbit/s

95th percentile per-packet one-way delay: 115.223 ms

Loss rate: 2.12%

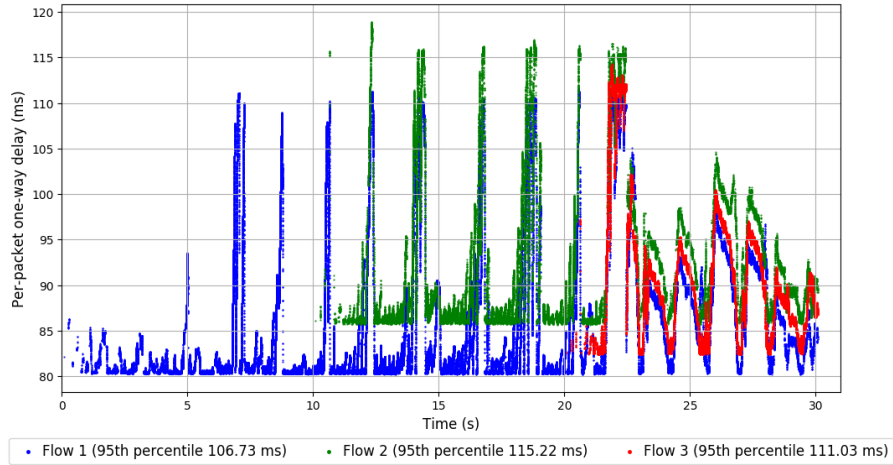
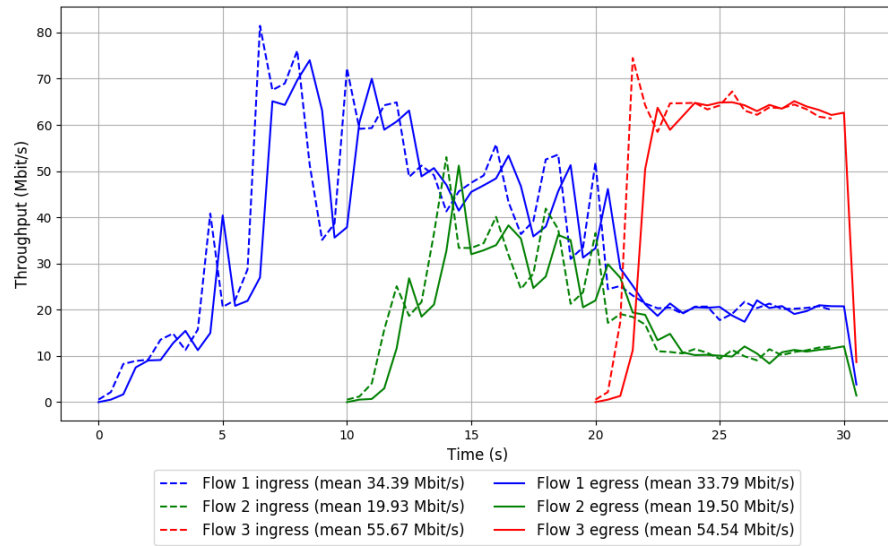
-- Flow 3:

Average throughput: 54.54 Mbit/s

95th percentile per-packet one-way delay: 111.029 ms

Loss rate: 2.00%

Run 8: Report of Copa — Data Link

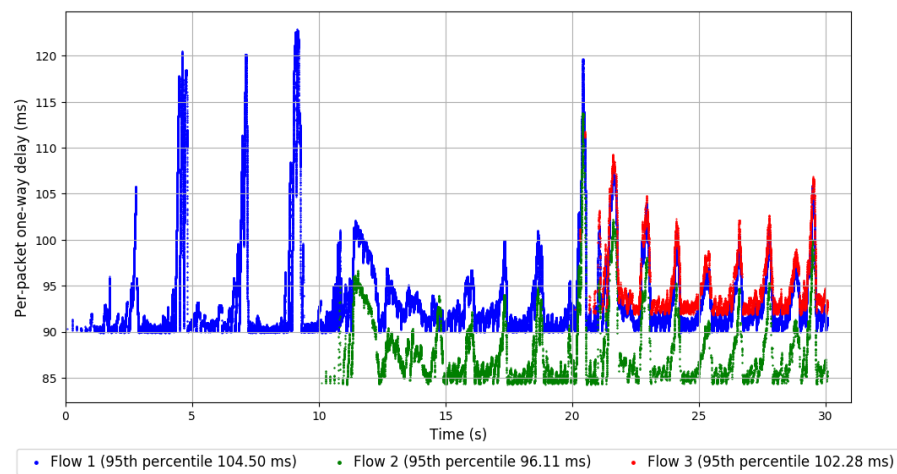
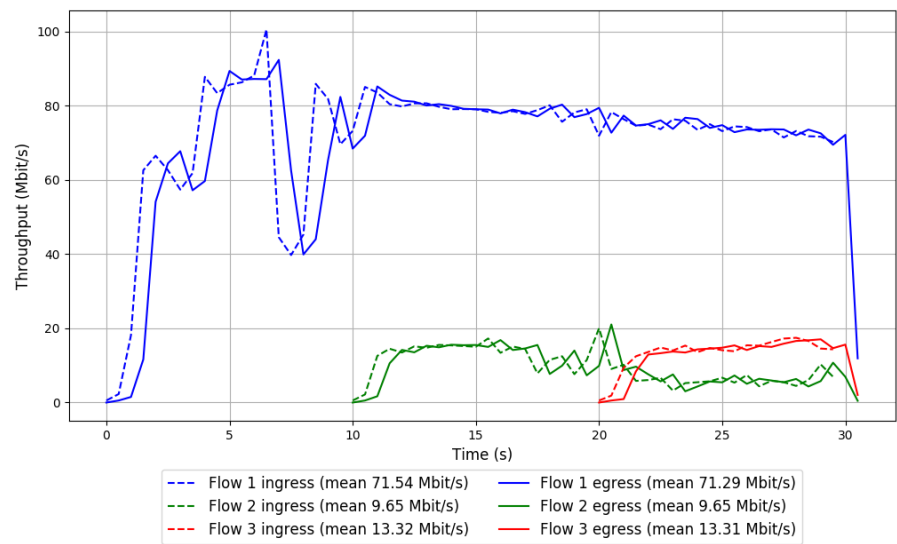


Run 9: Statistics of Copa

Start at: 2018-07-03 21:19:34
End at: 2018-07-03 21:20:04
Local clock offset: -2.423 ms
Remote clock offset: 8.448 ms

Below is generated by plot.py at 2018-07-03 21:55:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.15 Mbit/s
95th percentile per-packet one-way delay: 103.881 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 71.29 Mbit/s
95th percentile per-packet one-way delay: 104.496 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 9.65 Mbit/s
95th percentile per-packet one-way delay: 96.114 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 13.31 Mbit/s
95th percentile per-packet one-way delay: 102.282 ms
Loss rate: 0.08%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-07-03 21:40:48

End at: 2018-07-03 21:41:18

Local clock offset: -1.926 ms

Remote clock offset: 2.785 ms

Below is generated by plot.py at 2018-07-03 21:56:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.85 Mbit/s

95th percentile per-packet one-way delay: 96.670 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 71.23 Mbit/s

95th percentile per-packet one-way delay: 96.272 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 12.04 Mbit/s

95th percentile per-packet one-way delay: 98.173 ms

Loss rate: 0.02%

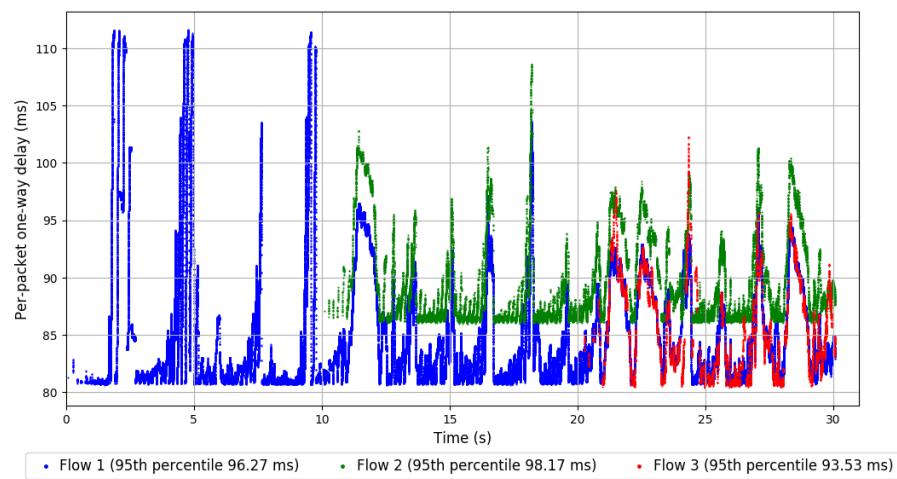
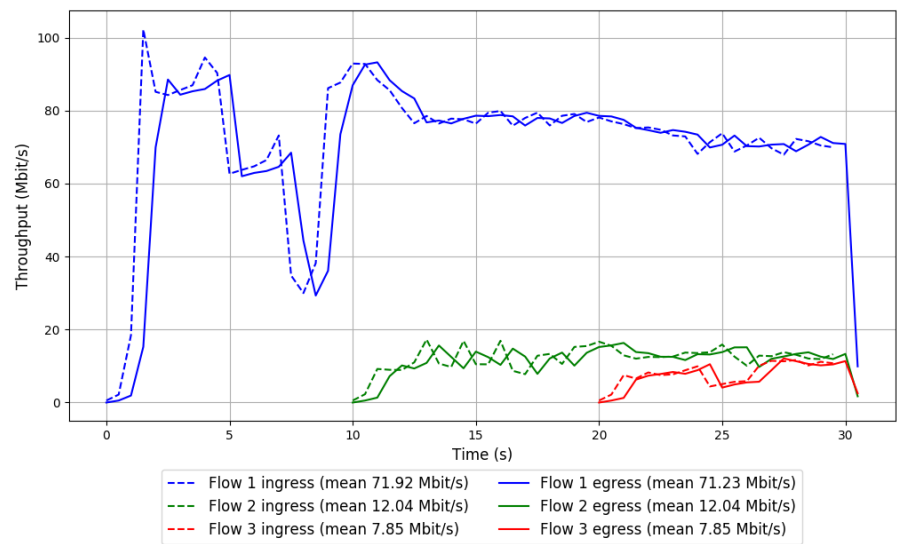
-- Flow 3:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 93.527 ms

Loss rate: 0.04%

Run 10: Report of Copa — Data Link

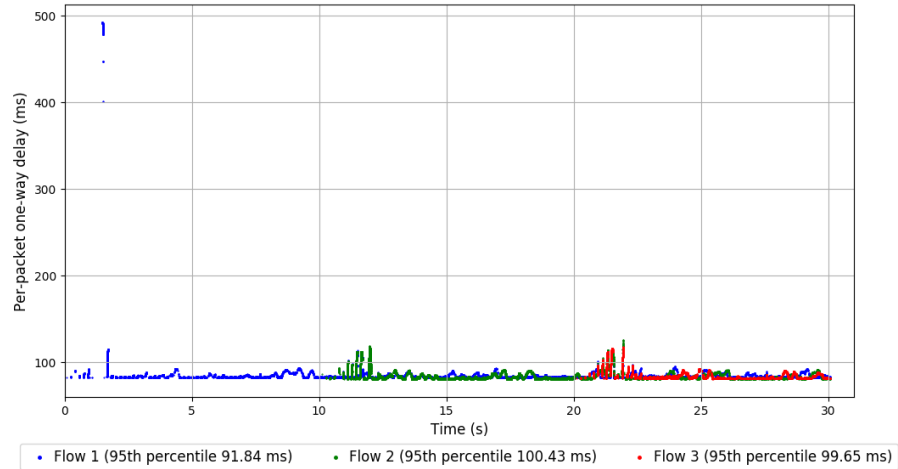
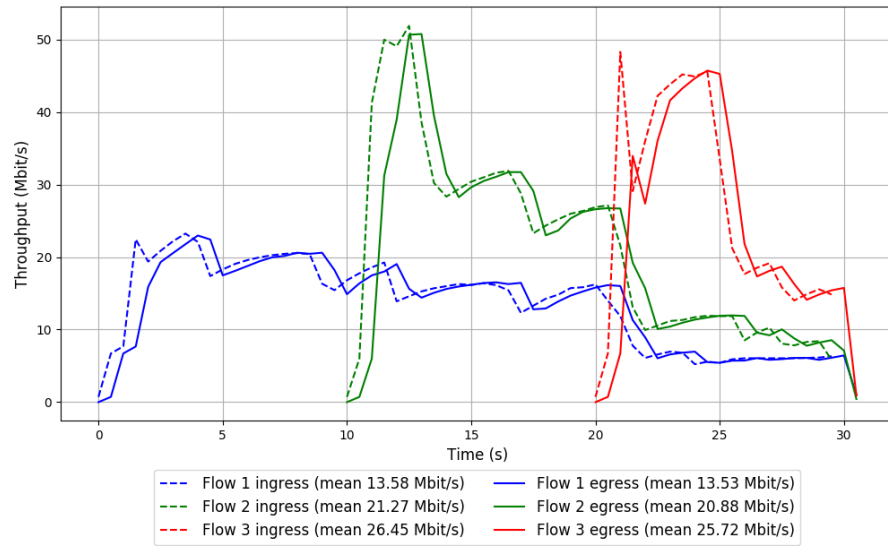


Run 1: Statistics of TCP Cubic

Start at: 2018-07-03 18:18:29
End at: 2018-07-03 18:18:59
Local clock offset: -2.195 ms
Remote clock offset: 11.926 ms

Below is generated by plot.py at 2018-07-03 21:56:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 35.99 Mbit/s
95th percentile per-packet one-way delay: 95.001 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 13.53 Mbit/s
95th percentile per-packet one-way delay: 91.845 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 20.88 Mbit/s
95th percentile per-packet one-way delay: 100.430 ms
Loss rate: 1.85%
-- Flow 3:
Average throughput: 25.72 Mbit/s
95th percentile per-packet one-way delay: 99.647 ms
Loss rate: 2.78%

Run 1: Report of TCP Cubic — Data Link

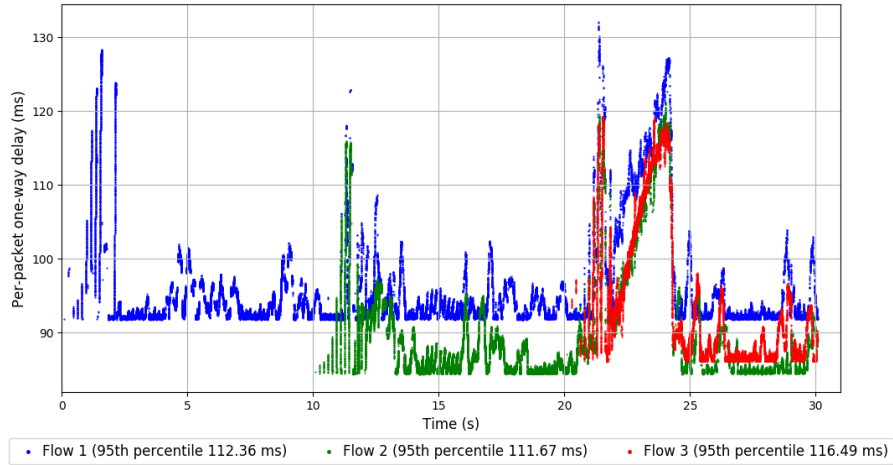
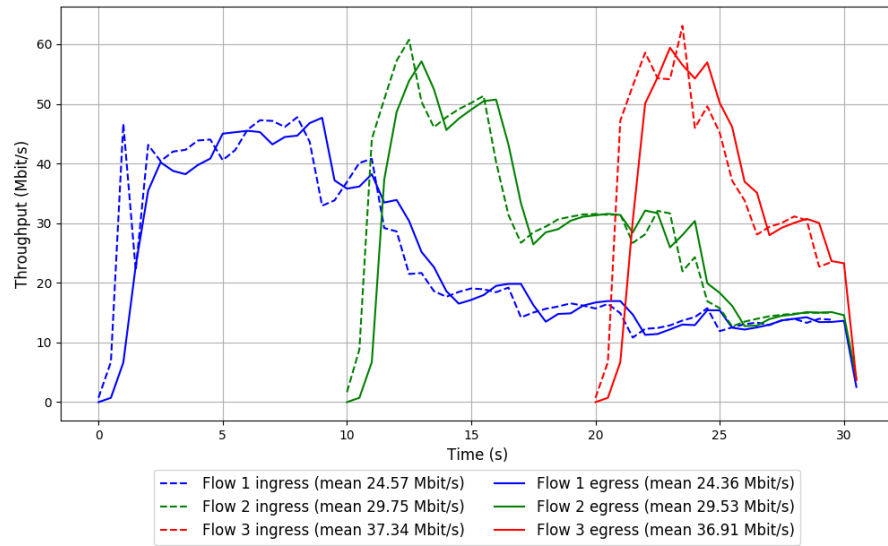


Run 2: Statistics of TCP Cubic

Start at: 2018-07-03 18:39:36
End at: 2018-07-03 18:40:06
Local clock offset: -1.736 ms
Remote clock offset: 12.834 ms

Below is generated by plot.py at 2018-07-03 21:56:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 56.32 Mbit/s
95th percentile per-packet one-way delay: 114.250 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 24.36 Mbit/s
95th percentile per-packet one-way delay: 112.361 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 29.53 Mbit/s
95th percentile per-packet one-way delay: 111.673 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 36.91 Mbit/s
95th percentile per-packet one-way delay: 116.493 ms
Loss rate: 1.12%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-07-03 19:00:45

End at: 2018-07-03 19:01:15

Local clock offset: -1.943 ms

Remote clock offset: 9.113 ms

Below is generated by plot.py at 2018-07-03 21:56:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 38.00 Mbit/s

95th percentile per-packet one-way delay: 101.085 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 12.25 Mbit/s

95th percentile per-packet one-way delay: 101.748 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 19.13 Mbit/s

95th percentile per-packet one-way delay: 101.308 ms

Loss rate: 1.81%

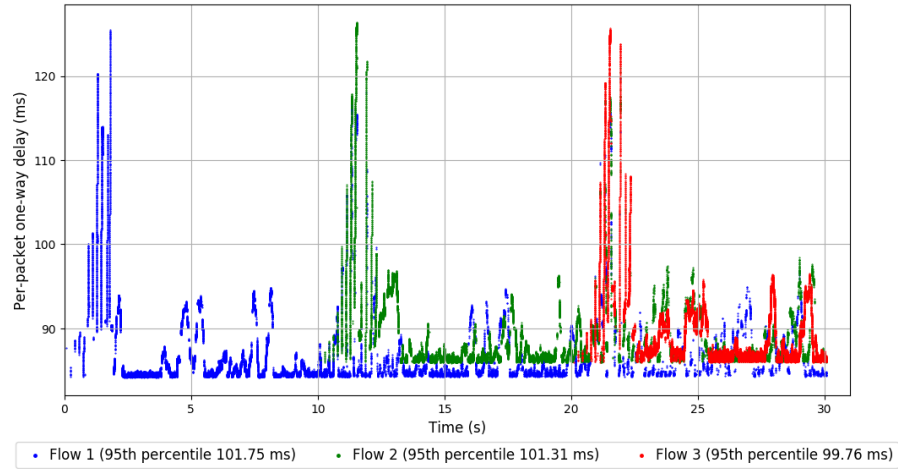
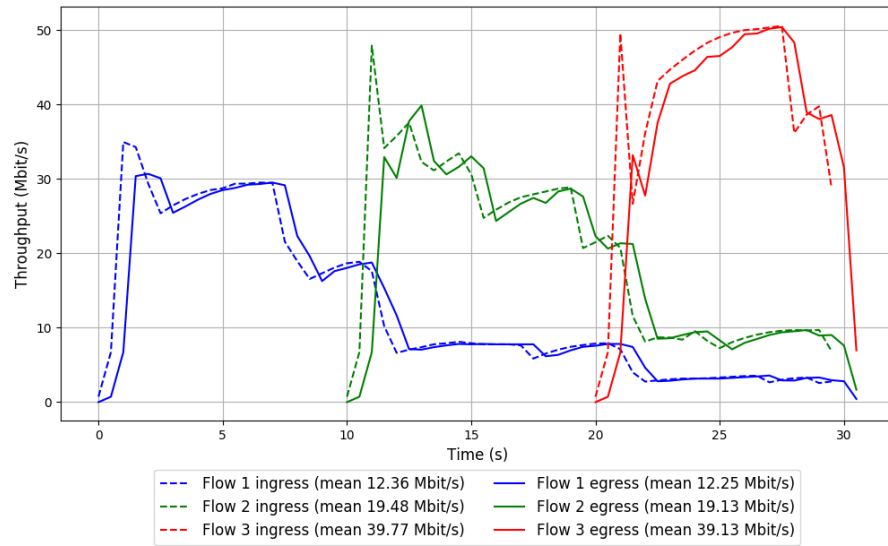
-- Flow 3:

Average throughput: 39.13 Mbit/s

95th percentile per-packet one-way delay: 99.764 ms

Loss rate: 1.60%

Run 3: Report of TCP Cubic — Data Link

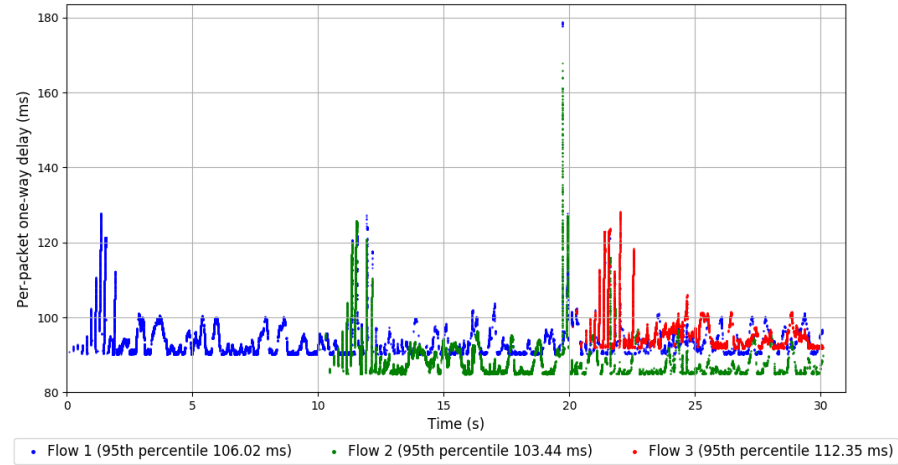
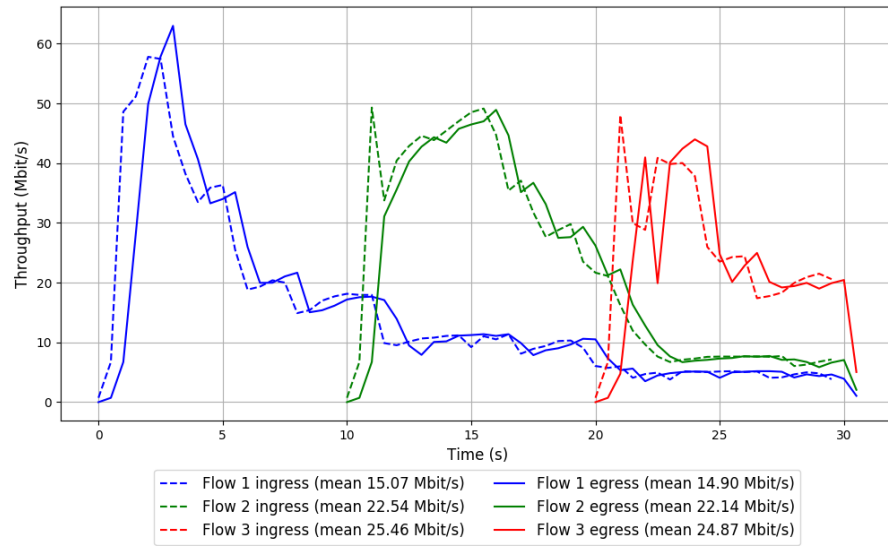


Run 4: Statistics of TCP Cubic

Start at: 2018-07-03 19:21:54
End at: 2018-07-03 19:22:24
Local clock offset: -2.141 ms
Remote clock offset: 6.434 ms

Below is generated by plot.py at 2018-07-03 21:56:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 37.91 Mbit/s
95th percentile per-packet one-way delay: 107.393 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 14.90 Mbit/s
95th percentile per-packet one-way delay: 106.019 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 22.14 Mbit/s
95th percentile per-packet one-way delay: 103.438 ms
Loss rate: 1.79%
-- Flow 3:
Average throughput: 24.87 Mbit/s
95th percentile per-packet one-way delay: 112.349 ms
Loss rate: 2.43%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-07-03 19:42:59

End at: 2018-07-03 19:43:29

Local clock offset: -2.209 ms

Remote clock offset: 3.335 ms

Below is generated by plot.py at 2018-07-03 21:56:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.85 Mbit/s

95th percentile per-packet one-way delay: 92.384 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 11.57 Mbit/s

95th percentile per-packet one-way delay: 90.631 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 25.28 Mbit/s

95th percentile per-packet one-way delay: 95.584 ms

Loss rate: 0.75%

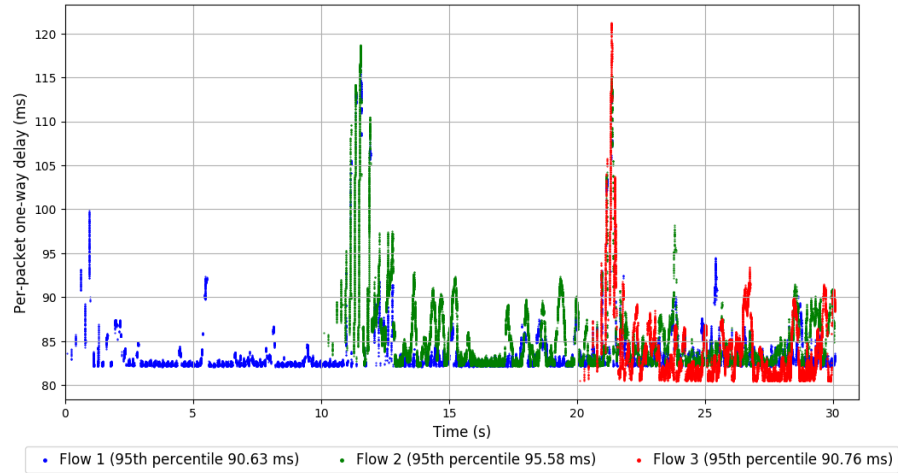
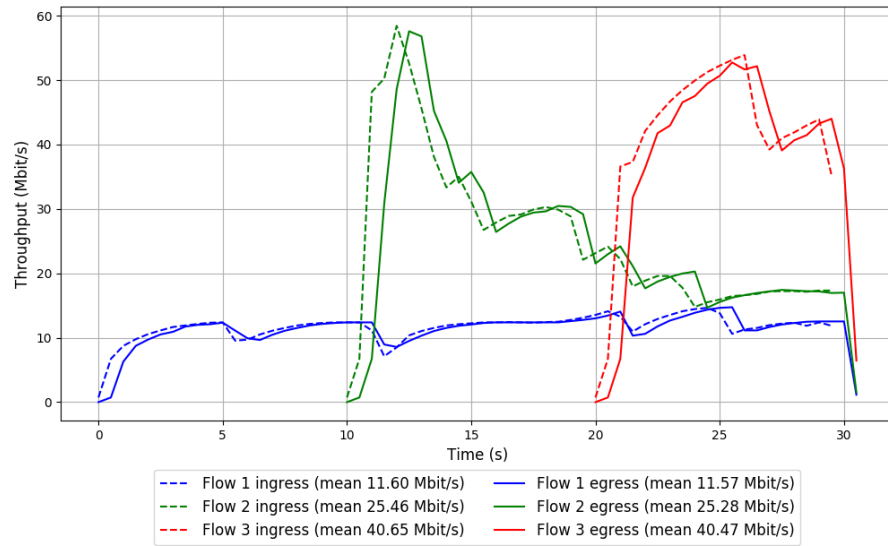
-- Flow 3:

Average throughput: 40.47 Mbit/s

95th percentile per-packet one-way delay: 90.762 ms

Loss rate: 0.41%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-07-03 20:04:03

End at: 2018-07-03 20:04:33

Local clock offset: -2.187 ms

Remote clock offset: 4.187 ms

Below is generated by plot.py at 2018-07-03 21:56:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.65 Mbit/s

95th percentile per-packet one-way delay: 99.217 ms

Loss rate: 1.54%

-- Flow 1:

Average throughput: 11.42 Mbit/s

95th percentile per-packet one-way delay: 104.575 ms

Loss rate: 1.26%

-- Flow 2:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 89.799 ms

Loss rate: 0.16%

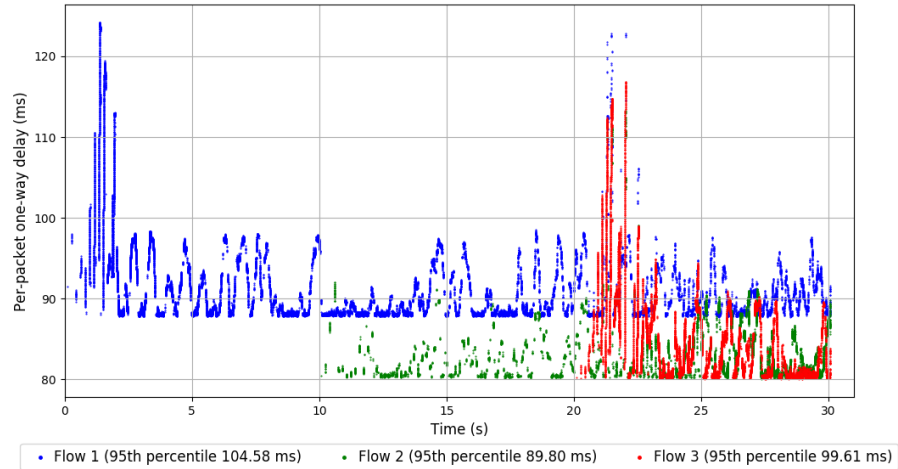
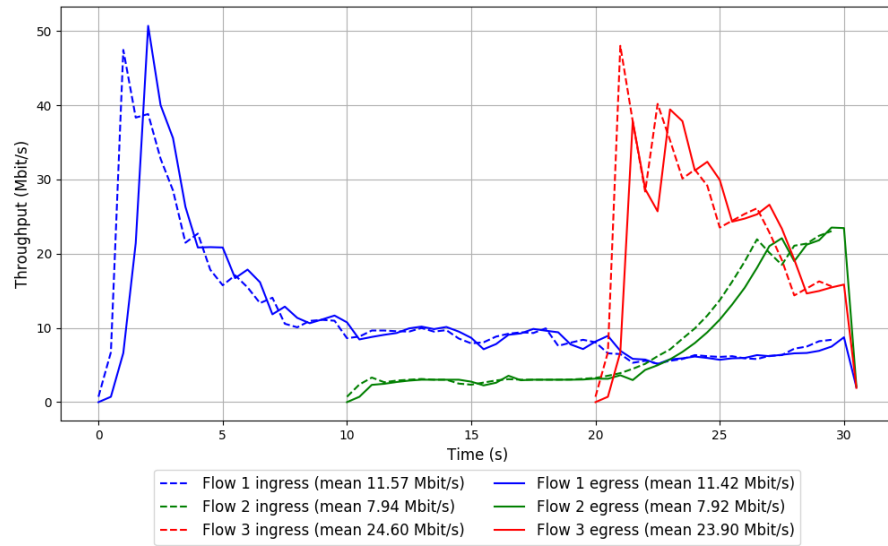
-- Flow 3:

Average throughput: 23.90 Mbit/s

95th percentile per-packet one-way delay: 99.611 ms

Loss rate: 2.82%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-07-03 20:25:02

End at: 2018-07-03 20:25:32

Local clock offset: -2.605 ms

Remote clock offset: 11.03 ms

Below is generated by plot.py at 2018-07-03 21:56:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 27.59 Mbit/s

95th percentile per-packet one-way delay: 100.991 ms

Loss rate: 1.48%

-- Flow 1:

Average throughput: 16.94 Mbit/s

95th percentile per-packet one-way delay: 98.885 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 13.62 Mbit/s

95th percentile per-packet one-way delay: 105.439 ms

Loss rate: 2.59%

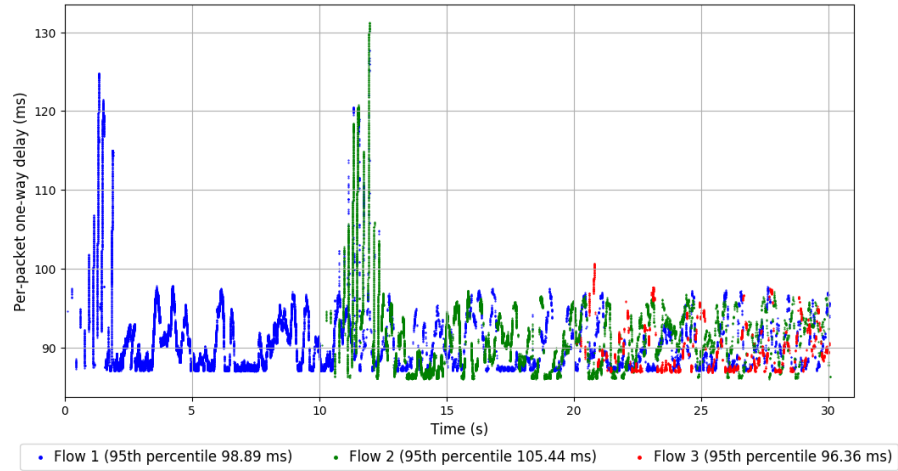
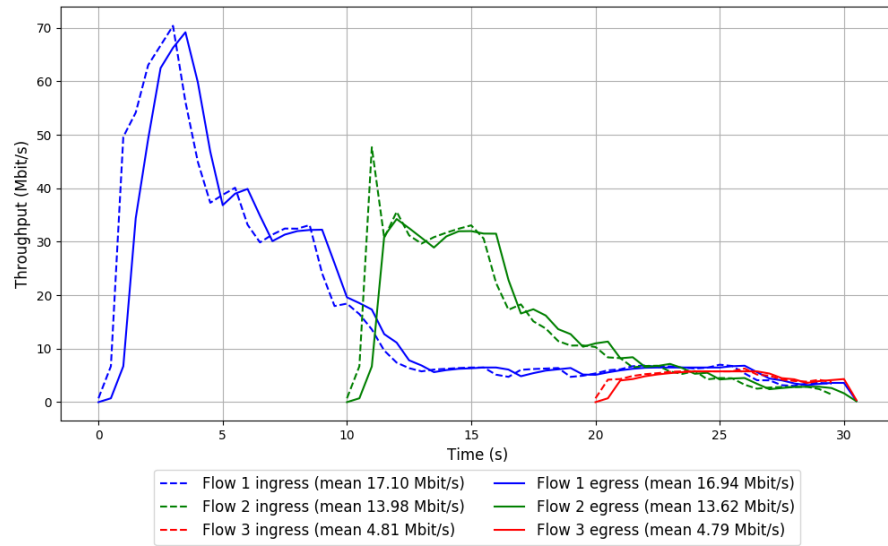
-- Flow 3:

Average throughput: 4.79 Mbit/s

95th percentile per-packet one-way delay: 96.356 ms

Loss rate: 0.40%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-07-03 20:46:08

End at: 2018-07-03 20:46:38

Local clock offset: -2.953 ms

Remote clock offset: 6.897 ms

Below is generated by plot.py at 2018-07-03 21:56:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 38.85 Mbit/s

95th percentile per-packet one-way delay: 91.420 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 26.94 Mbit/s

95th percentile per-packet one-way delay: 90.804 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 2.62 Mbit/s

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

Loss rate: 0.32%

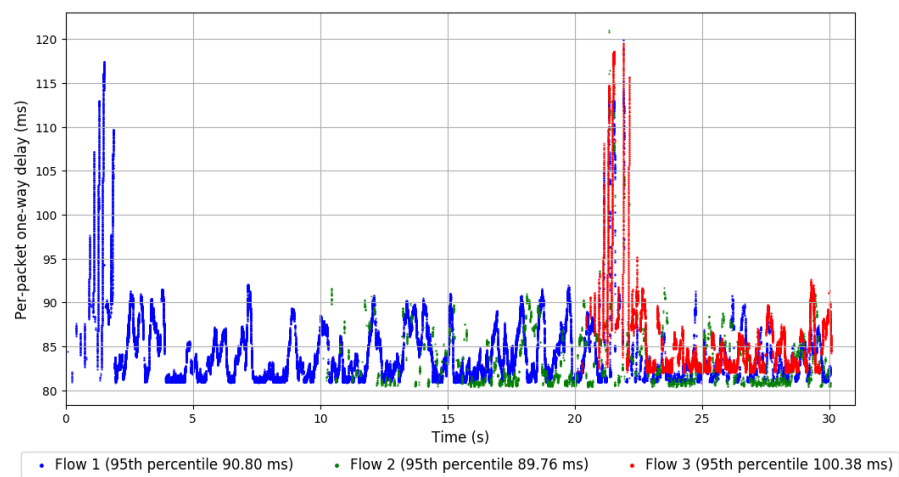
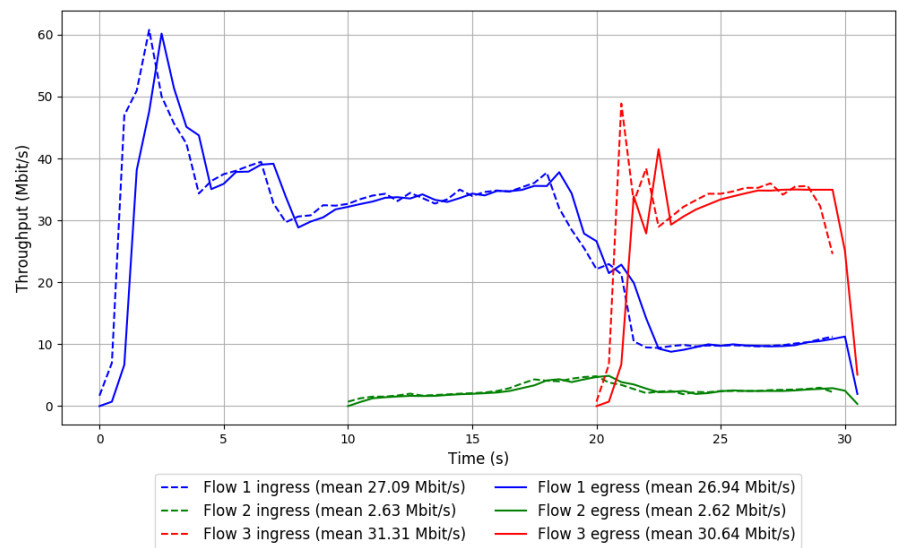
-- Flow 3:

Average throughput: 30.64 Mbit/s

95th percentile per-packet one-way delay: 100.376 ms

Loss rate: 2.13%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-07-03 21:07:15

End at: 2018-07-03 21:07:45

Local clock offset: -3.261 ms

Remote clock offset: 7.372 ms

Below is generated by plot.py at 2018-07-03 21:56:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.54 Mbit/s

95th percentile per-packet one-way delay: 107.233 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 25.64 Mbit/s

95th percentile per-packet one-way delay: 100.319 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 36.28 Mbit/s

95th percentile per-packet one-way delay: 109.881 ms

Loss rate: 1.00%

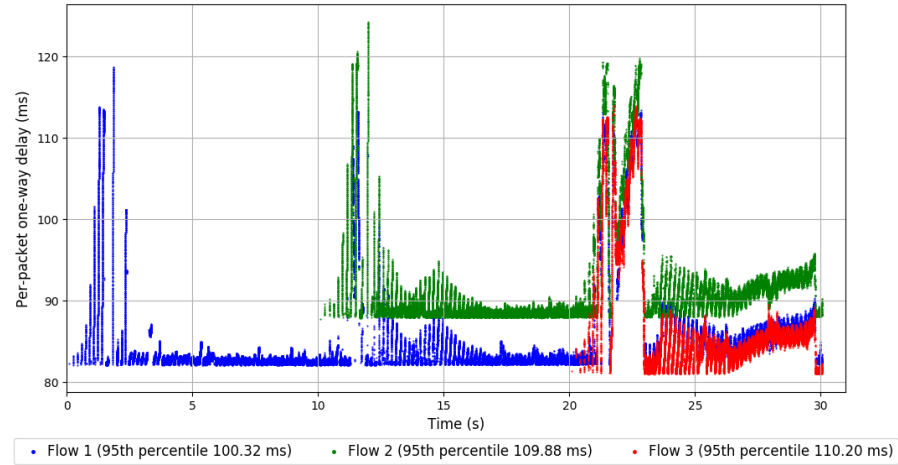
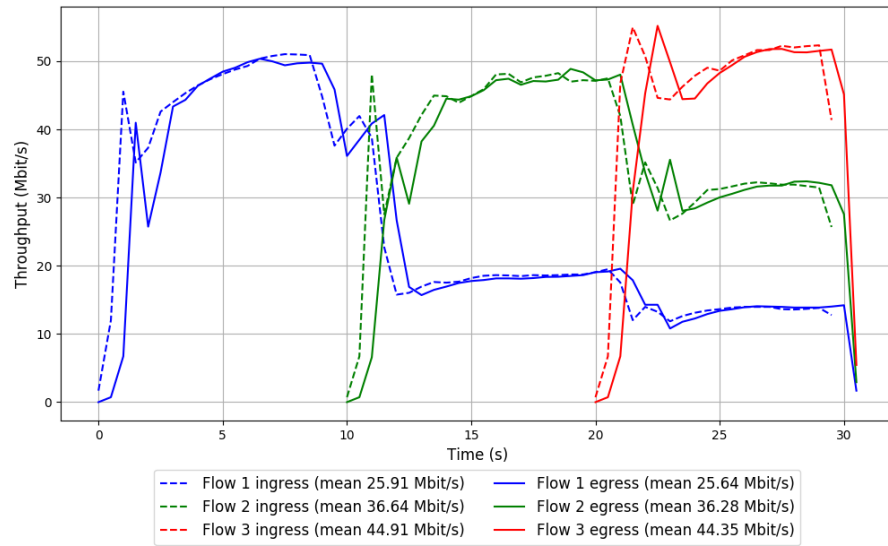
-- Flow 3:

Average throughput: 44.35 Mbit/s

95th percentile per-packet one-way delay: 110.197 ms

Loss rate: 1.25%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-07-03 21:28:24

End at: 2018-07-03 21:28:54

Local clock offset: -2.12 ms

Remote clock offset: 2.523 ms

Below is generated by plot.py at 2018-07-03 21:56:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.35 Mbit/s

95th percentile per-packet one-way delay: 110.012 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 46.39 Mbit/s

95th percentile per-packet one-way delay: 107.081 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 44.06 Mbit/s

95th percentile per-packet one-way delay: 113.117 ms

Loss rate: 0.59%

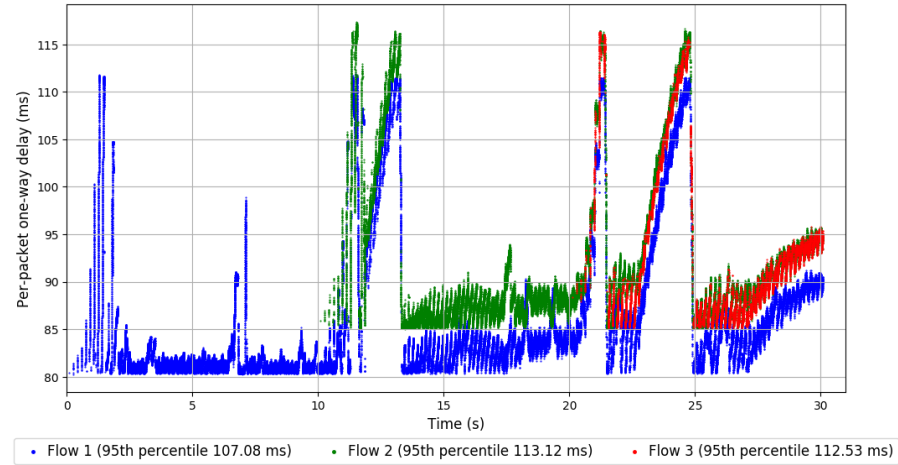
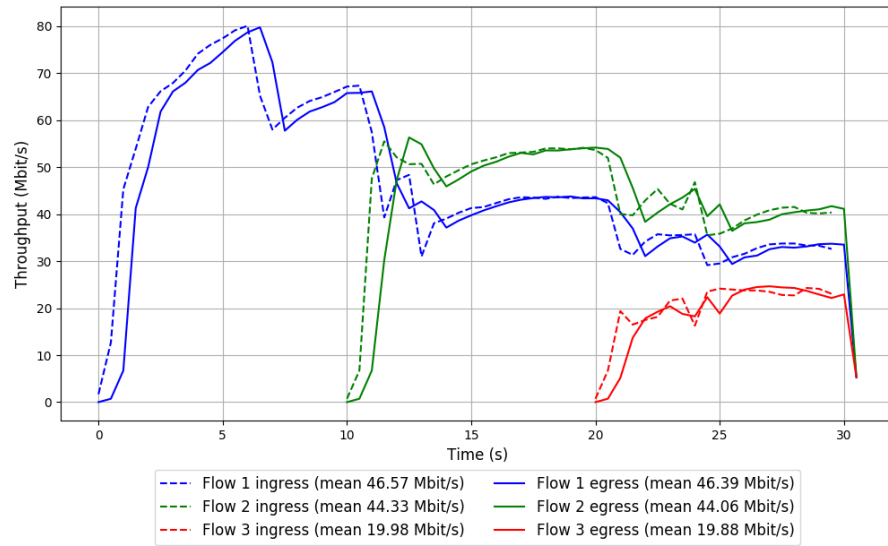
-- Flow 3:

Average throughput: 19.88 Mbit/s

95th percentile per-packet one-way delay: 112.527 ms

Loss rate: 0.45%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-07-03 18:33:20

End at: 2018-07-03 18:33:50

Local clock offset: -1.831 ms

Remote clock offset: 9.581 ms

Below is generated by plot.py at 2018-07-03 21:56:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.00 Mbit/s

95th percentile per-packet one-way delay: 115.980 ms

Loss rate: 16.63%

-- Flow 1:

Average throughput: 61.11 Mbit/s

95th percentile per-packet one-way delay: 113.999 ms

Loss rate: 16.22%

-- Flow 2:

Average throughput: 40.58 Mbit/s

95th percentile per-packet one-way delay: 115.127 ms

Loss rate: 17.81%

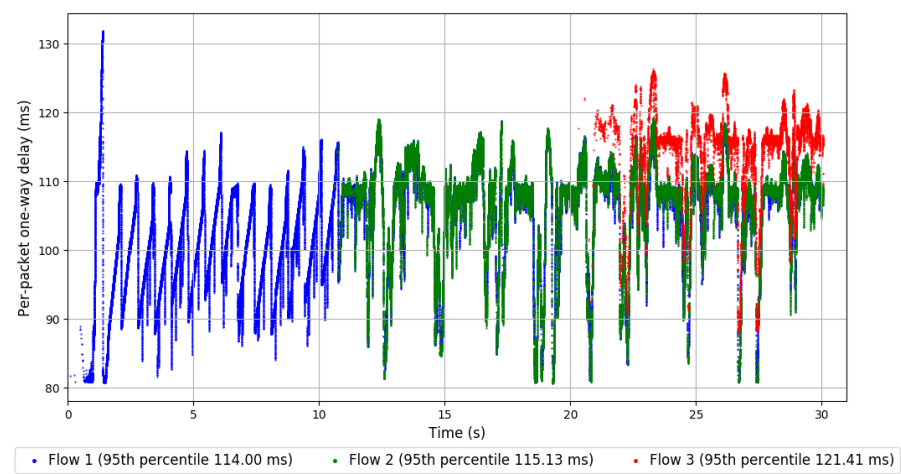
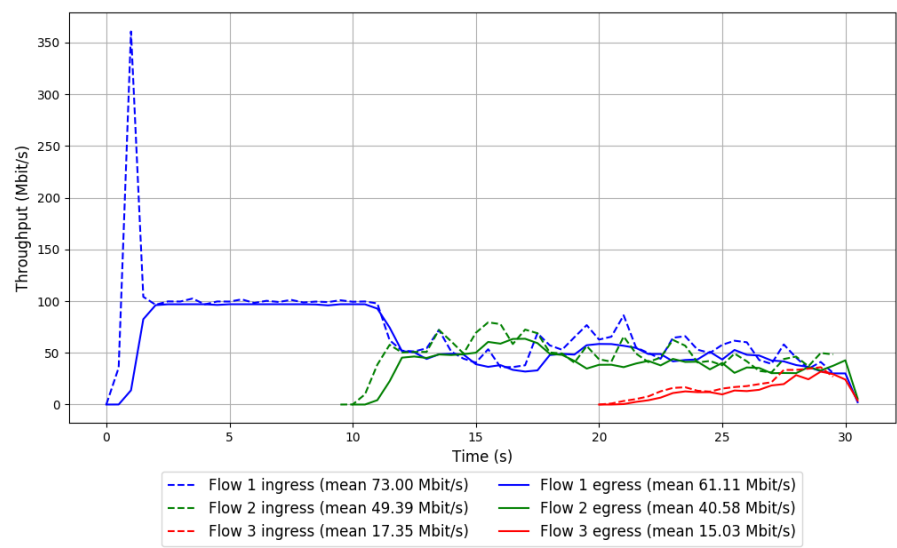
-- Flow 3:

Average throughput: 15.03 Mbit/s

95th percentile per-packet one-way delay: 121.408 ms

Loss rate: 15.20%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-07-03 18:54:27

End at: 2018-07-03 18:54:57

Local clock offset: -2.012 ms

Remote clock offset: 7.215 ms

Below is generated by plot.py at 2018-07-03 21:57:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.07 Mbit/s

95th percentile per-packet one-way delay: 120.286 ms

Loss rate: 17.92%

-- Flow 1:

Average throughput: 59.92 Mbit/s

95th percentile per-packet one-way delay: 120.035 ms

Loss rate: 17.13%

-- Flow 2:

Average throughput: 43.40 Mbit/s

95th percentile per-packet one-way delay: 120.928 ms

Loss rate: 19.68%

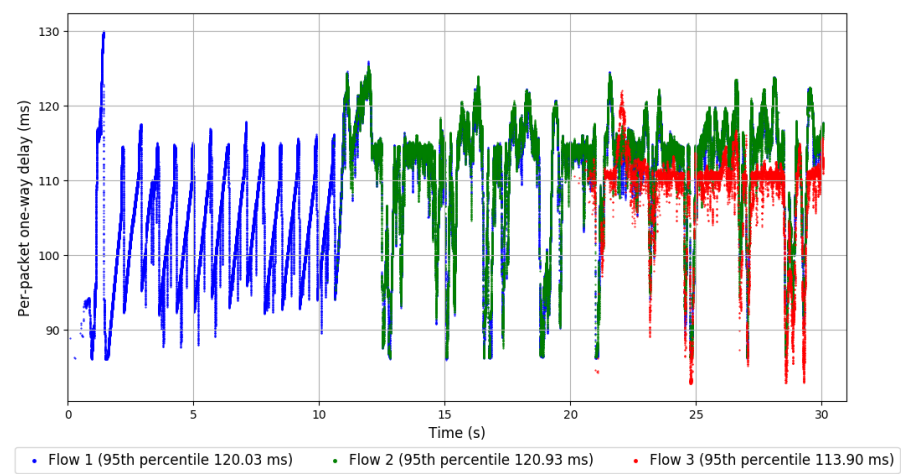
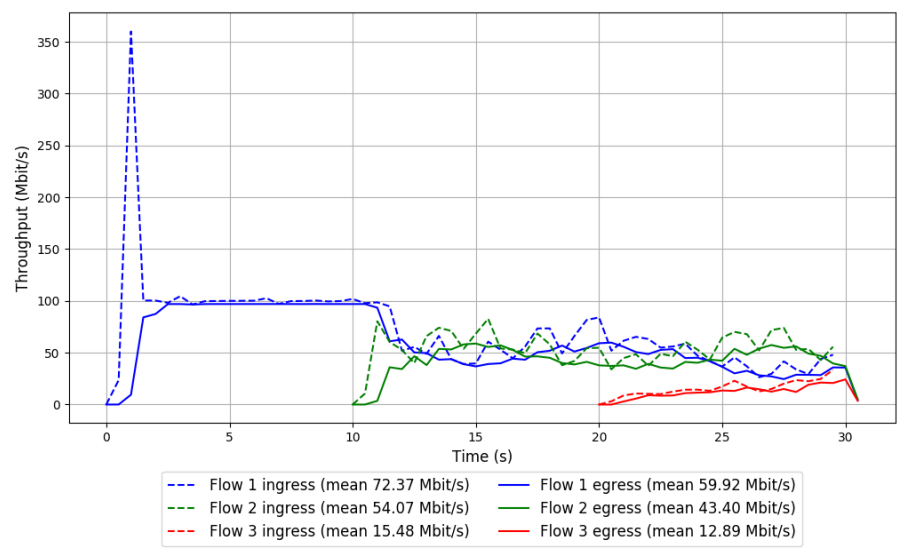
-- Flow 3:

Average throughput: 12.89 Mbit/s

95th percentile per-packet one-way delay: 113.901 ms

Loss rate: 16.76%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-07-03 19:15:36

End at: 2018-07-03 19:16:06

Local clock offset: -2.06 ms

Remote clock offset: 6.976 ms

Below is generated by plot.py at 2018-07-03 21:57:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.87 Mbit/s

95th percentile per-packet one-way delay: 123.700 ms

Loss rate: 18.33%

-- Flow 1:

Average throughput: 59.79 Mbit/s

95th percentile per-packet one-way delay: 118.079 ms

Loss rate: 17.58%

-- Flow 2:

Average throughput: 37.17 Mbit/s

95th percentile per-packet one-way delay: 127.039 ms

Loss rate: 20.25%

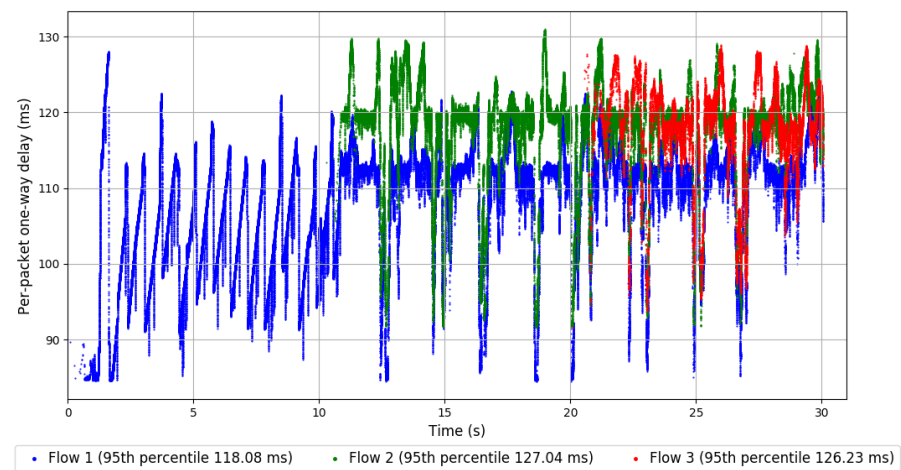
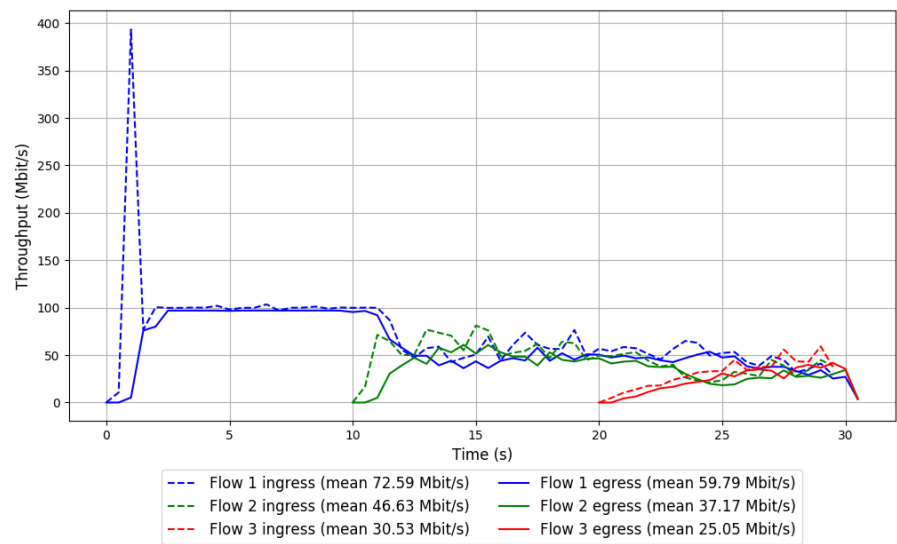
-- Flow 3:

Average throughput: 25.05 Mbit/s

95th percentile per-packet one-way delay: 126.228 ms

Loss rate: 17.82%

Run 3: Report of FillP — Data Link

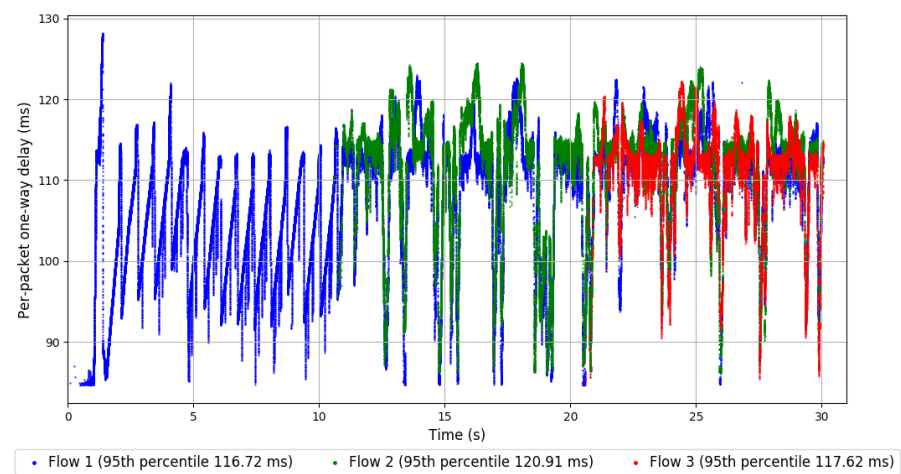
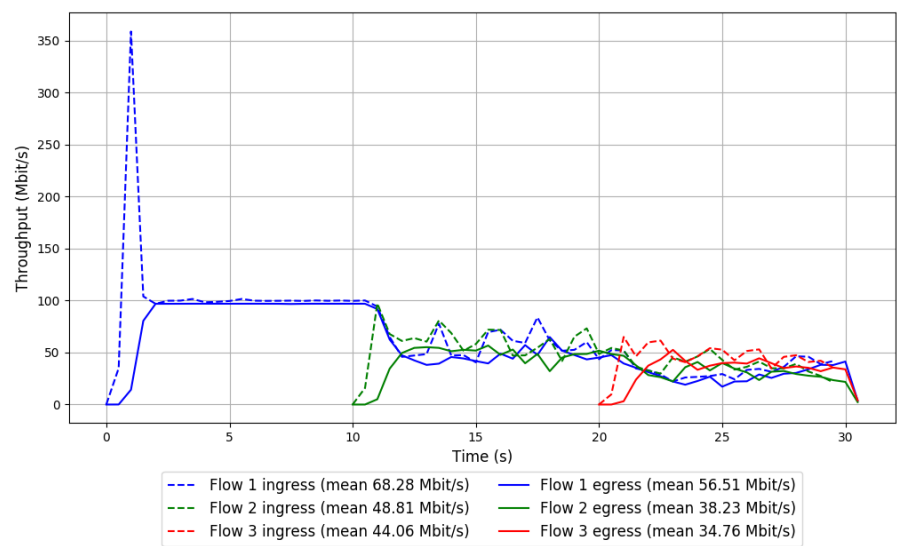


Run 4: Statistics of FillP

Start at: 2018-07-03 19:36:44
End at: 2018-07-03 19:37:14
Local clock offset: -2.207 ms
Remote clock offset: 7.511 ms

Below is generated by plot.py at 2018-07-03 21:57:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.46 Mbit/s
95th percentile per-packet one-way delay: 118.743 ms
Loss rate: 18.92%
-- Flow 1:
Average throughput: 56.51 Mbit/s
95th percentile per-packet one-way delay: 116.716 ms
Loss rate: 17.15%
-- Flow 2:
Average throughput: 38.23 Mbit/s
95th percentile per-packet one-way delay: 120.907 ms
Loss rate: 21.65%
-- Flow 3:
Average throughput: 34.76 Mbit/s
95th percentile per-packet one-way delay: 117.624 ms
Loss rate: 21.13%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-07-03 19:57:46

End at: 2018-07-03 19:58:16

Local clock offset: -2.194 ms

Remote clock offset: 5.695 ms

Below is generated by plot.py at 2018-07-03 21:57:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.36 Mbit/s

95th percentile per-packet one-way delay: 118.965 ms

Loss rate: 17.99%

-- Flow 1:

Average throughput: 58.97 Mbit/s

95th percentile per-packet one-way delay: 117.321 ms

Loss rate: 17.08%

-- Flow 2:

Average throughput: 41.15 Mbit/s

95th percentile per-packet one-way delay: 120.758 ms

Loss rate: 20.12%

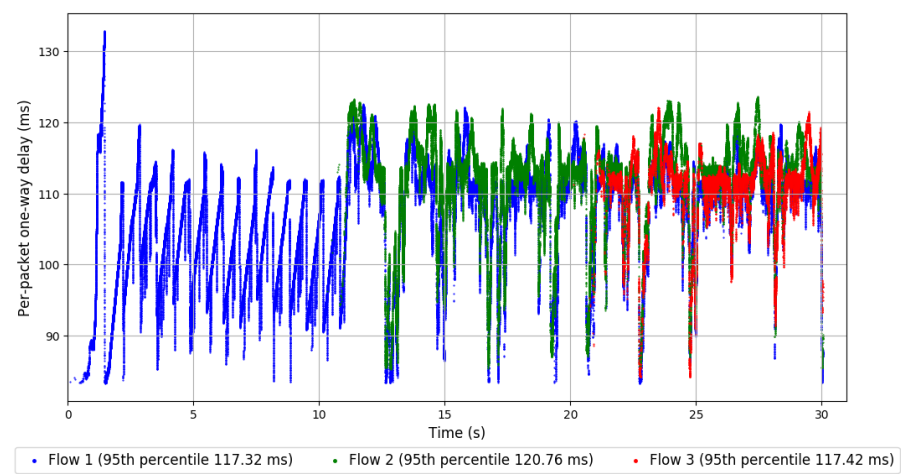
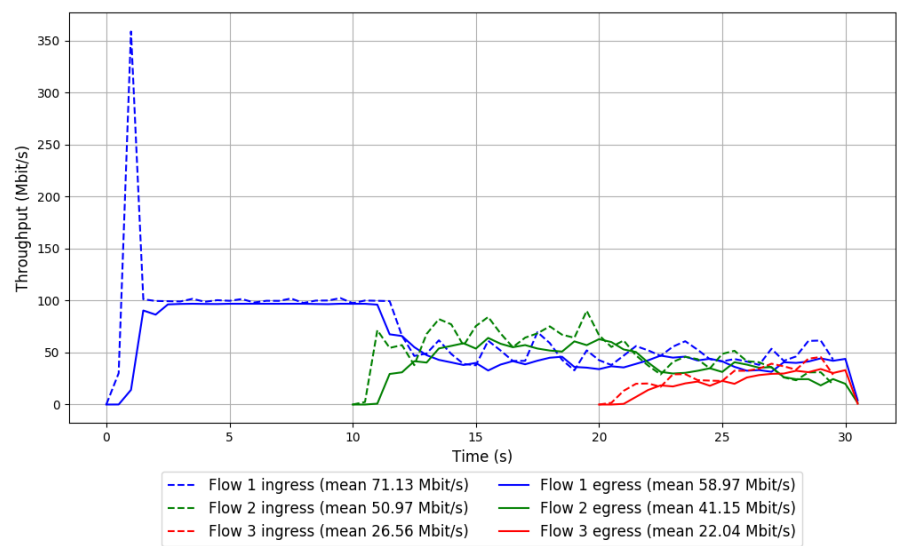
-- Flow 3:

Average throughput: 22.04 Mbit/s

95th percentile per-packet one-way delay: 117.418 ms

Loss rate: 17.16%

Run 5: Report of FillP — Data Link

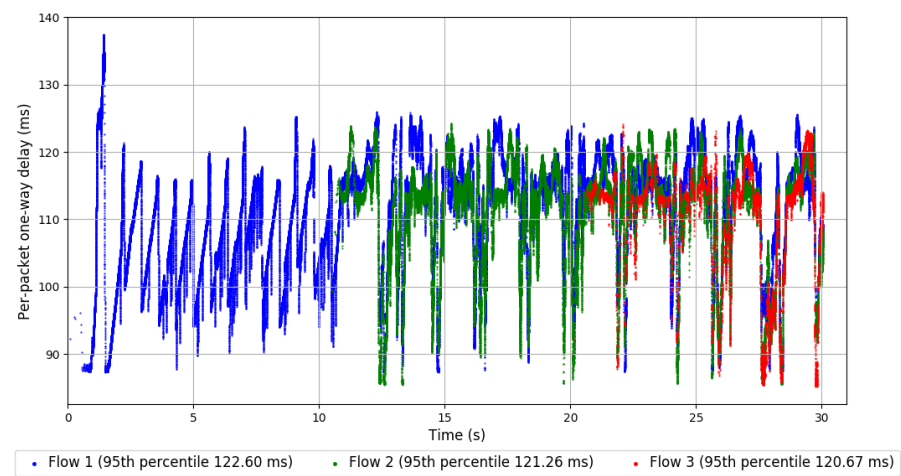
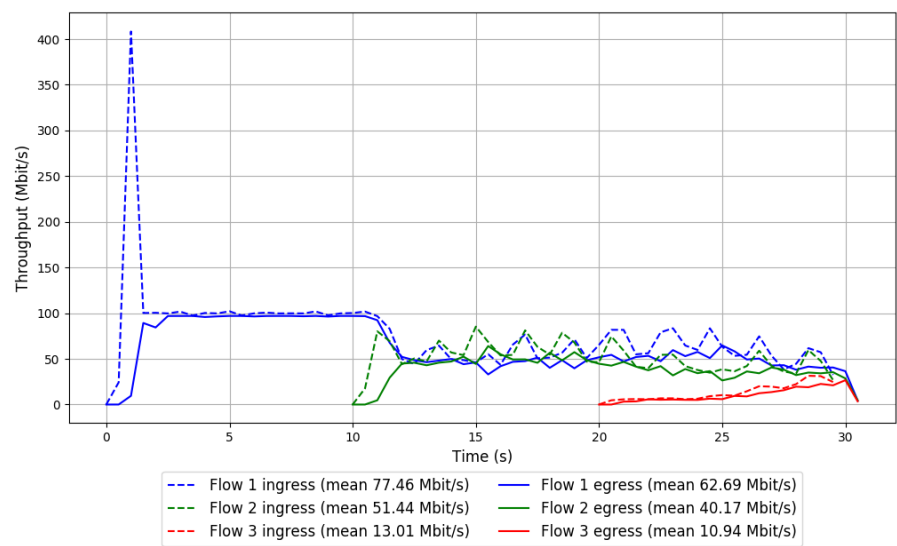


Run 6: Statistics of FillP

Start at: 2018-07-03 20:18:44
End at: 2018-07-03 20:19:14
Local clock offset: -2.492 ms
Remote clock offset: 10.777 ms

Below is generated by plot.py at 2018-07-03 21:57:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.07 Mbit/s
95th percentile per-packet one-way delay: 122.060 ms
Loss rate: 19.74%
-- Flow 1:
Average throughput: 62.69 Mbit/s
95th percentile per-packet one-way delay: 122.596 ms
Loss rate: 19.03%
-- Flow 2:
Average throughput: 40.17 Mbit/s
95th percentile per-packet one-way delay: 121.261 ms
Loss rate: 21.85%
-- Flow 3:
Average throughput: 10.94 Mbit/s
95th percentile per-packet one-way delay: 120.674 ms
Loss rate: 15.76%

Run 6: Report of FillP — Data Link

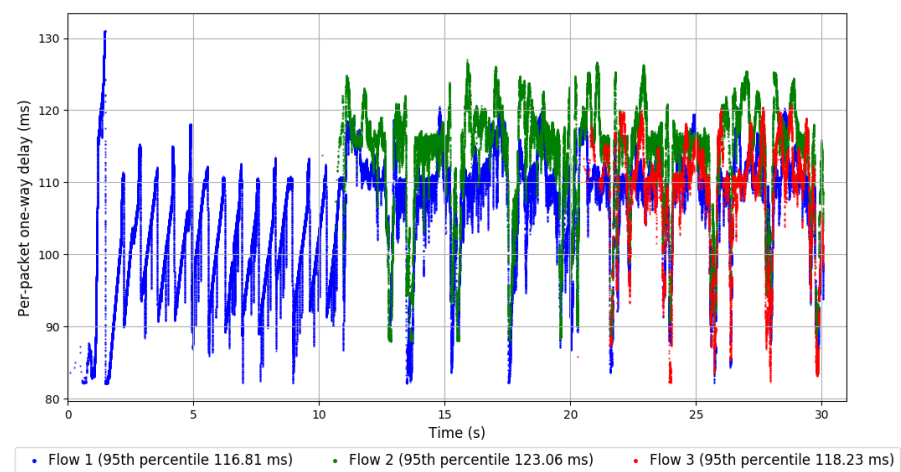
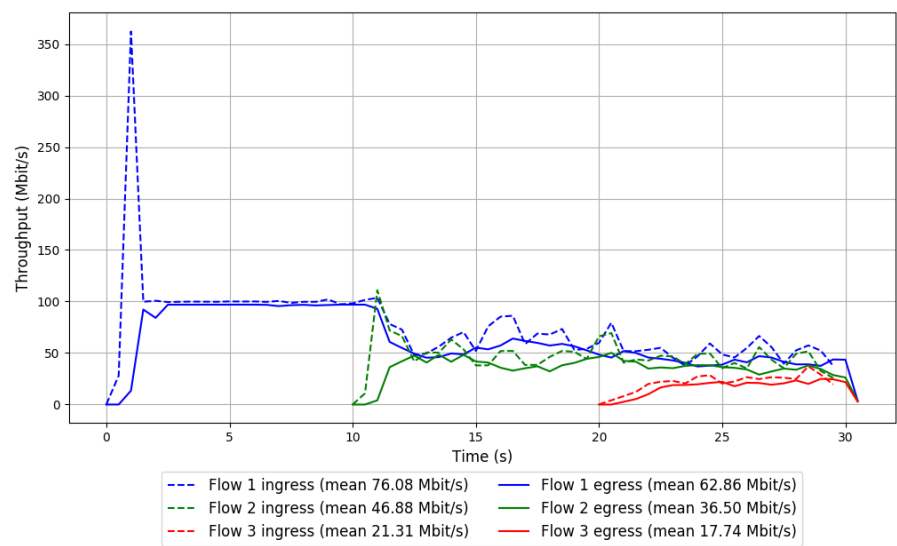


Run 7: Statistics of FillP

Start at: 2018-07-03 20:39:51
End at: 2018-07-03 20:40:21
Local clock offset: -2.769 ms
Remote clock offset: 6.646 ms

Below is generated by plot.py at 2018-07-03 21:57:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.02 Mbit/s
95th percentile per-packet one-way delay: 119.638 ms
Loss rate: 18.62%
-- Flow 1:
Average throughput: 62.86 Mbit/s
95th percentile per-packet one-way delay: 116.811 ms
Loss rate: 17.34%
-- Flow 2:
Average throughput: 36.50 Mbit/s
95th percentile per-packet one-way delay: 123.059 ms
Loss rate: 22.20%
-- Flow 3:
Average throughput: 17.74 Mbit/s
95th percentile per-packet one-way delay: 118.232 ms
Loss rate: 16.71%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-07-03 21:00:58

End at: 2018-07-03 21:01:28

Local clock offset: -3.213 ms

Remote clock offset: 6.057 ms

Below is generated by plot.py at 2018-07-03 21:58:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.21 Mbit/s

95th percentile per-packet one-way delay: 107.889 ms

Loss rate: 18.33%

-- Flow 1:

Average throughput: 61.92 Mbit/s

95th percentile per-packet one-way delay: 107.758 ms

Loss rate: 17.07%

-- Flow 2:

Average throughput: 40.62 Mbit/s

95th percentile per-packet one-way delay: 107.957 ms

Loss rate: 21.55%

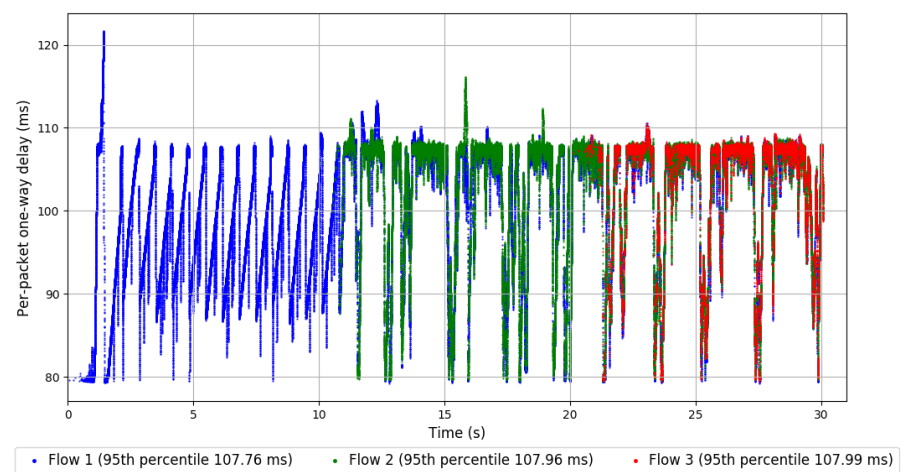
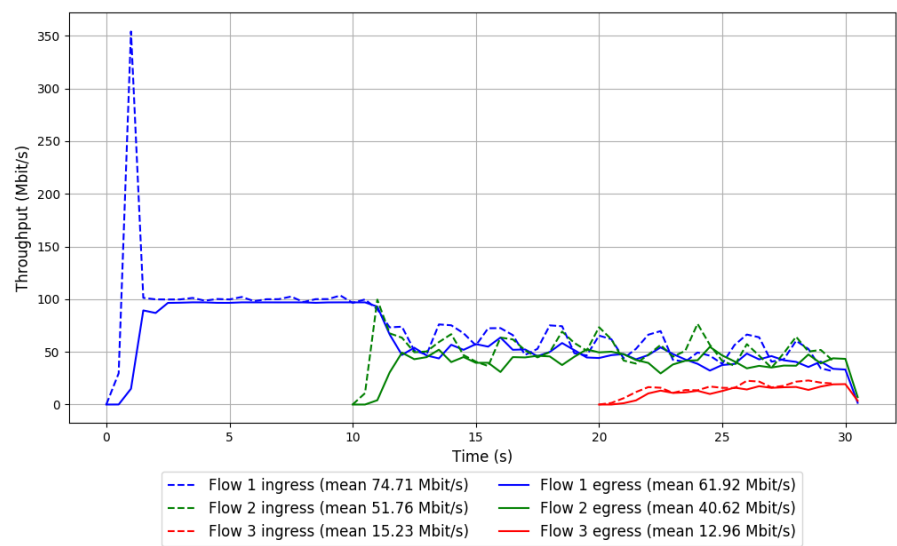
-- Flow 3:

Average throughput: 12.96 Mbit/s

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

Loss rate: 14.98%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-03 21:22:09

End at: 2018-07-03 21:22:39

Local clock offset: -2.273 ms

Remote clock offset: 9.179 ms

Below is generated by plot.py at 2018-07-03 21:58:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.11 Mbit/s

95th percentile per-packet one-way delay: 120.886 ms

Loss rate: 20.35%

-- Flow 1:

Average throughput: 57.49 Mbit/s

95th percentile per-packet one-way delay: 121.025 ms

Loss rate: 18.59%

-- Flow 2:

Average throughput: 33.73 Mbit/s

95th percentile per-packet one-way delay: 119.296 ms

Loss rate: 20.53%

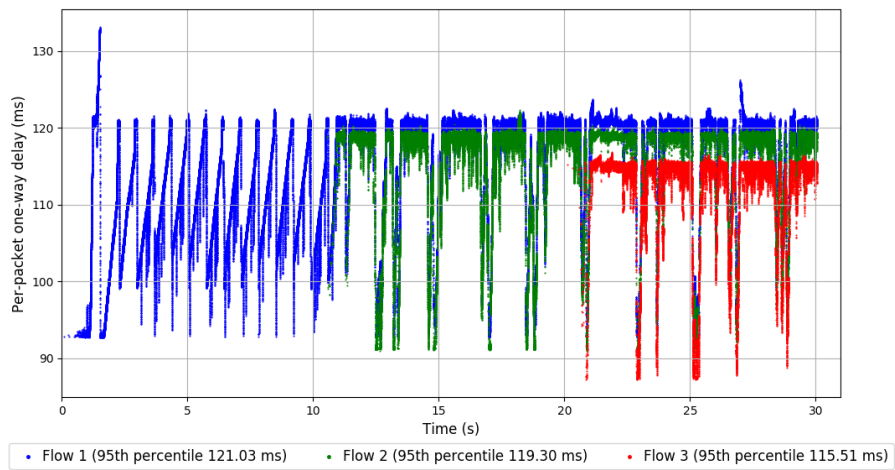
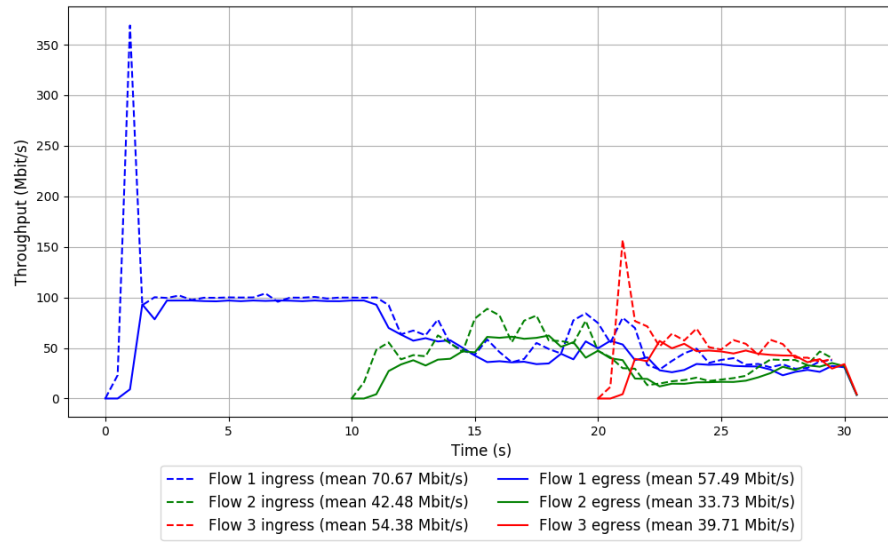
-- Flow 3:

Average throughput: 39.71 Mbit/s

95th percentile per-packet one-way delay: 115.509 ms

Loss rate: 26.99%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-07-03 21:43:23

End at: 2018-07-03 21:43:53

Local clock offset: -2.139 ms

Remote clock offset: 9.293 ms

Below is generated by plot.py at 2018-07-03 21:58:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.29 Mbit/s

95th percentile per-packet one-way delay: 113.507 ms

Loss rate: 17.94%

-- Flow 1:

Average throughput: 58.49 Mbit/s

95th percentile per-packet one-way delay: 112.727 ms

Loss rate: 17.15%

-- Flow 2:

Average throughput: 39.17 Mbit/s

95th percentile per-packet one-way delay: 112.890 ms

Loss rate: 19.69%

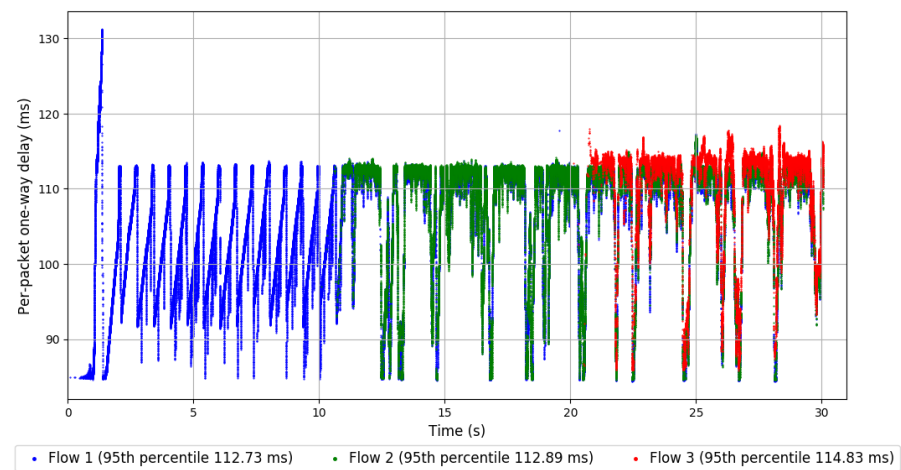
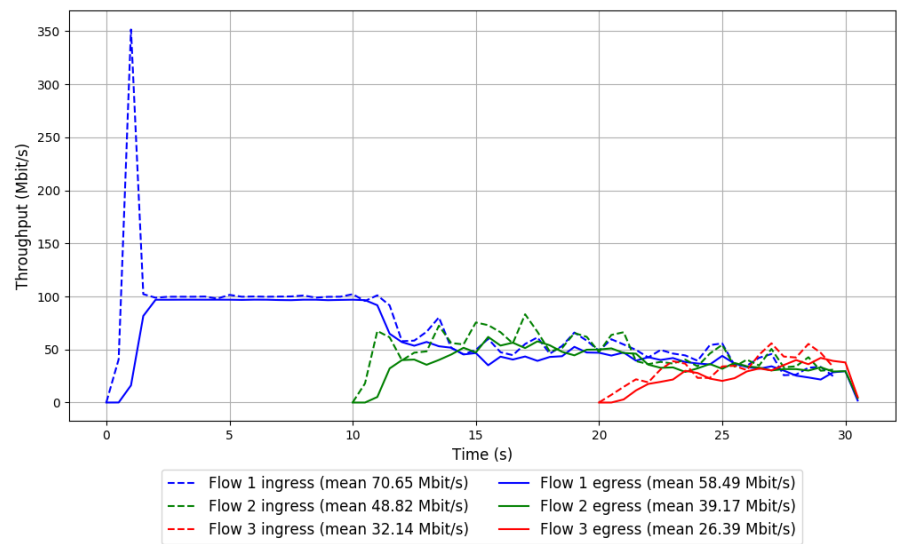
-- Flow 3:

Average throughput: 26.39 Mbit/s

95th percentile per-packet one-way delay: 114.834 ms

Loss rate: 17.86%

Run 10: Report of FillP — Data Link

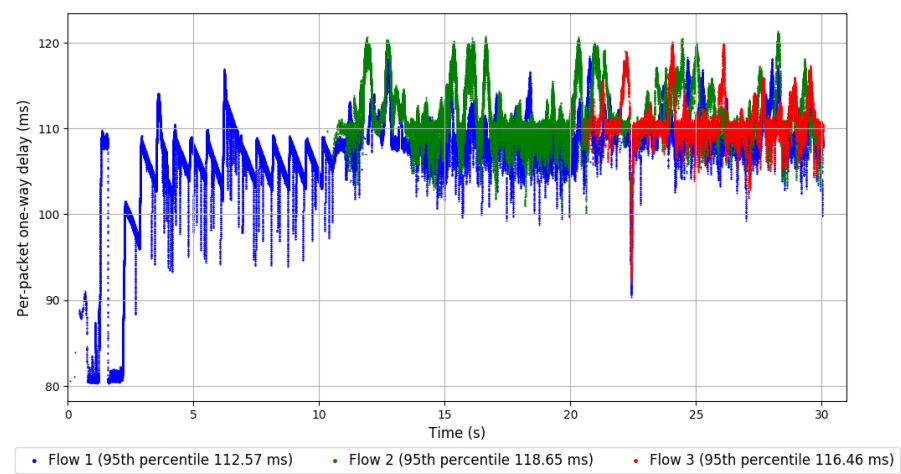
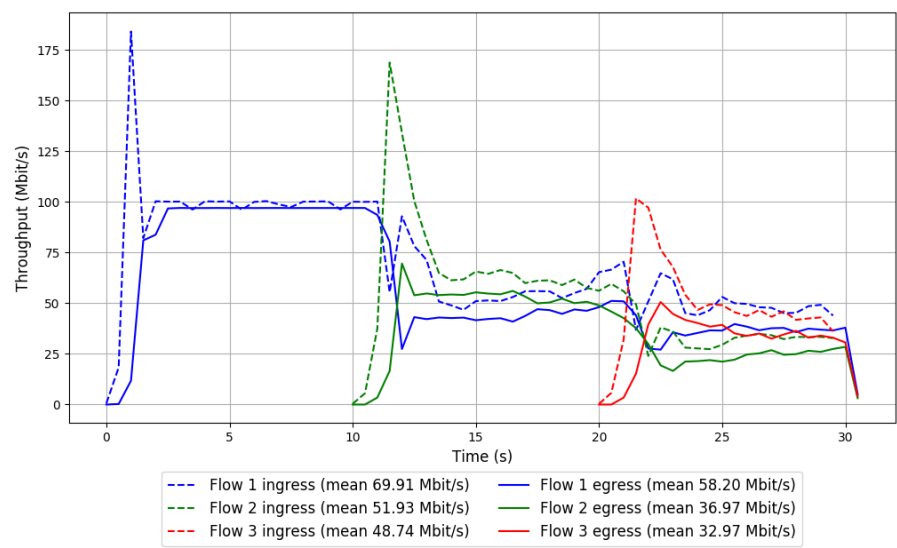


Run 1: Statistics of FillP-Sheep

Start at: 2018-07-03 18:20:53
End at: 2018-07-03 18:21:23
Local clock offset: -2.084 ms
Remote clock offset: 10.783 ms

Below is generated by plot.py at 2018-07-03 21:58:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.71 Mbit/s
95th percentile per-packet one-way delay: 116.088 ms
Loss rate: 22.25%
-- Flow 1:
Average throughput: 58.20 Mbit/s
95th percentile per-packet one-way delay: 112.571 ms
Loss rate: 16.67%
-- Flow 2:
Average throughput: 36.97 Mbit/s
95th percentile per-packet one-way delay: 118.651 ms
Loss rate: 28.79%
-- Flow 3:
Average throughput: 32.97 Mbit/s
95th percentile per-packet one-way delay: 116.459 ms
Loss rate: 32.38%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-07-03 18:42:02

End at: 2018-07-03 18:42:32

Local clock offset: -1.757 ms

Remote clock offset: 9.339 ms

Below is generated by plot.py at 2018-07-03 21:59:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.65 Mbit/s

95th percentile per-packet one-way delay: 114.937 ms

Loss rate: 21.66%

-- Flow 1:

Average throughput: 58.11 Mbit/s

95th percentile per-packet one-way delay: 112.920 ms

Loss rate: 16.33%

-- Flow 2:

Average throughput: 37.25 Mbit/s

95th percentile per-packet one-way delay: 116.687 ms

Loss rate: 28.92%

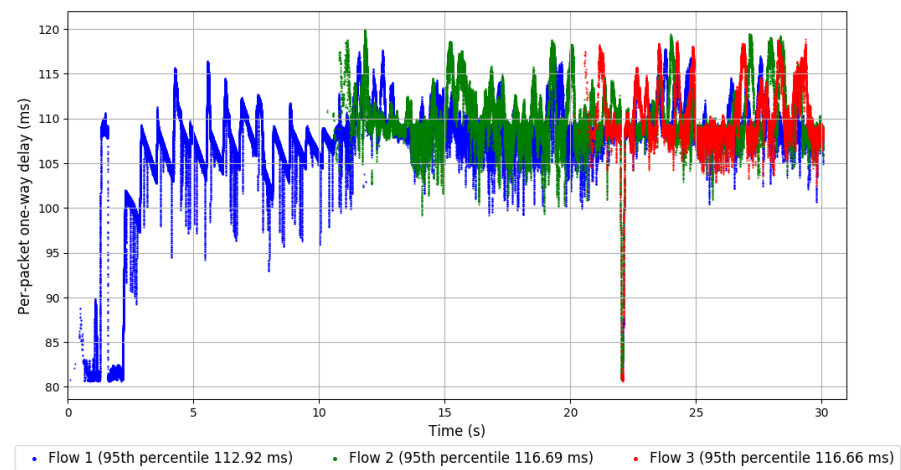
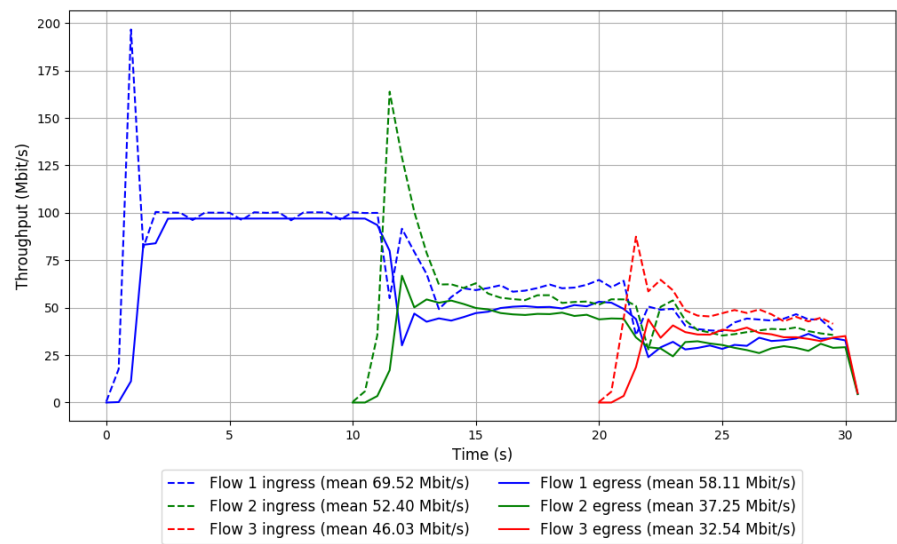
-- Flow 3:

Average throughput: 32.54 Mbit/s

95th percentile per-packet one-way delay: 116.663 ms

Loss rate: 29.34%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-07-03 19:03:09

End at: 2018-07-03 19:03:39

Local clock offset: -1.951 ms

Remote clock offset: 9.059 ms

Below is generated by plot.py at 2018-07-03 21:59:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.10 Mbit/s

95th percentile per-packet one-way delay: 123.551 ms

Loss rate: 17.81%

-- Flow 1:

Average throughput: 61.75 Mbit/s

95th percentile per-packet one-way delay: 119.760 ms

Loss rate: 13.88%

-- Flow 2:

Average throughput: 31.97 Mbit/s

95th percentile per-packet one-way delay: 125.337 ms

Loss rate: 23.15%

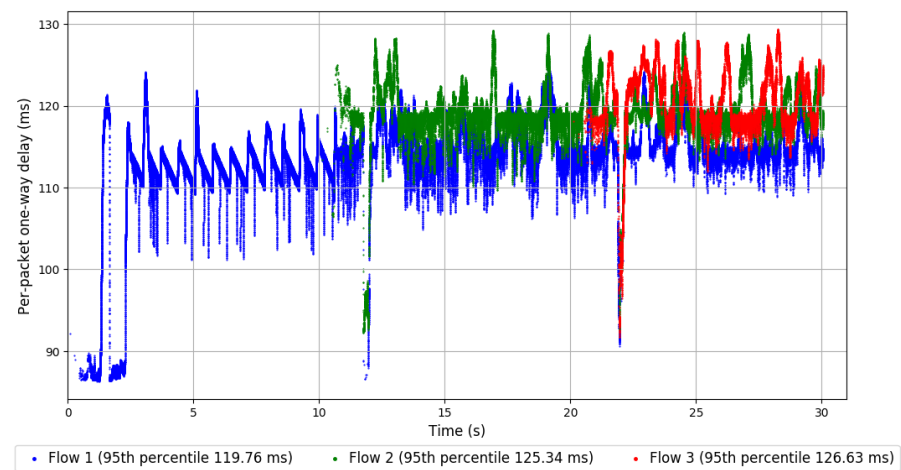
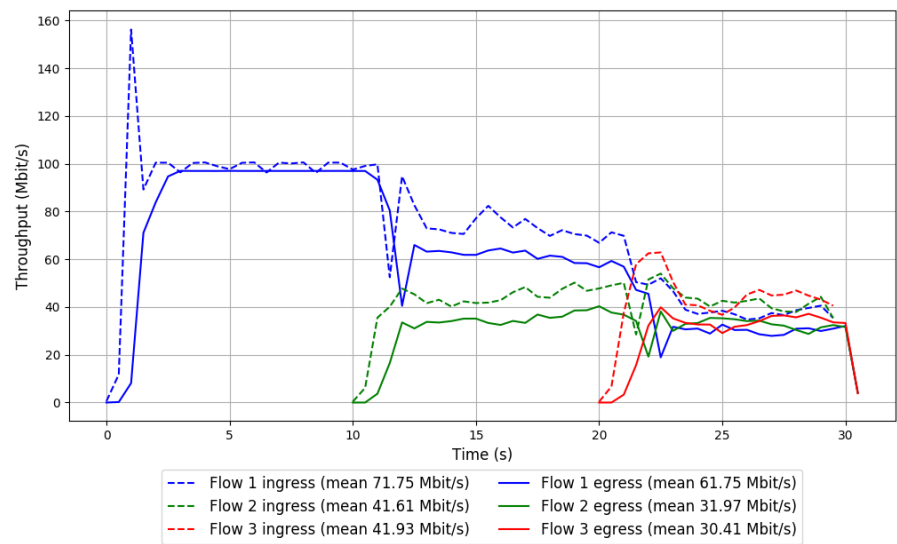
-- Flow 3:

Average throughput: 30.41 Mbit/s

95th percentile per-packet one-way delay: 126.628 ms

Loss rate: 27.45%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-07-03 19:24:18

End at: 2018-07-03 19:24:48

Local clock offset: -2.153 ms

Remote clock offset: 6.219 ms

Below is generated by plot.py at 2018-07-03 21:59:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.42 Mbit/s

95th percentile per-packet one-way delay: 123.803 ms

Loss rate: 19.00%

-- Flow 1:

Average throughput: 60.67 Mbit/s

95th percentile per-packet one-way delay: 119.345 ms

Loss rate: 15.32%

-- Flow 2:

Average throughput: 37.57 Mbit/s

95th percentile per-packet one-way delay: 126.605 ms

Loss rate: 24.79%

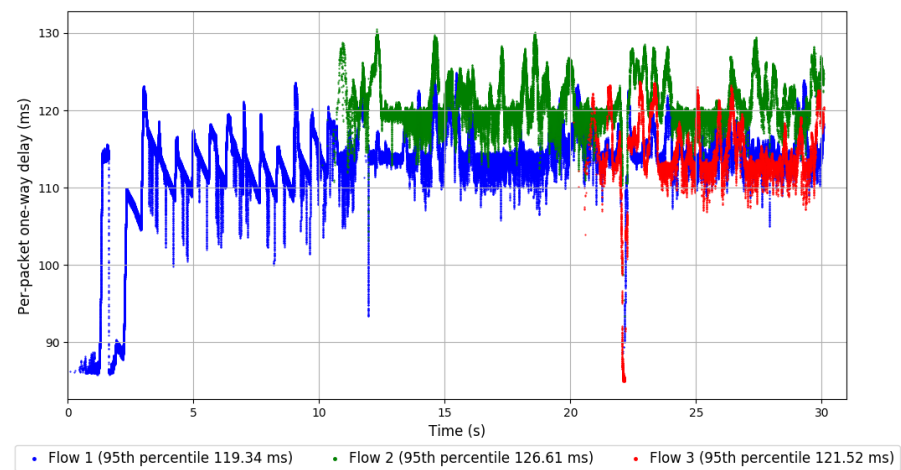
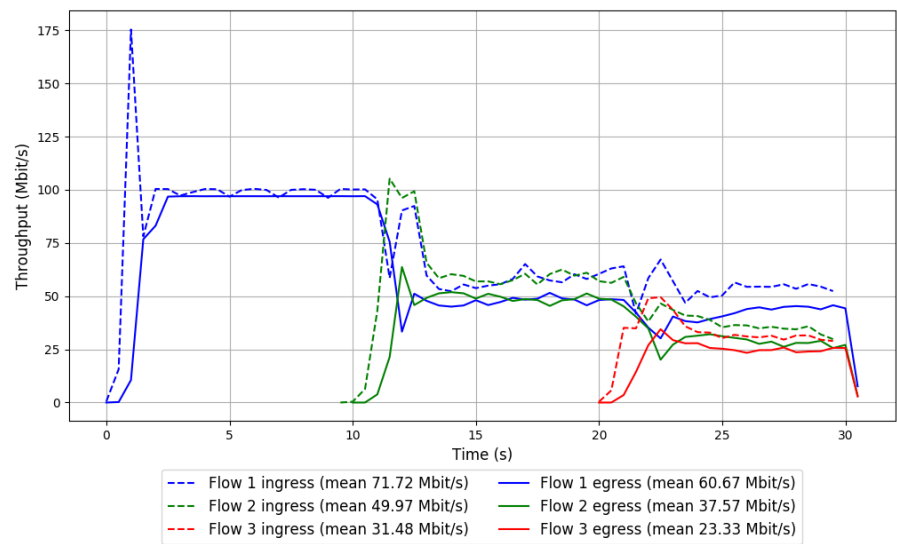
-- Flow 3:

Average throughput: 23.33 Mbit/s

95th percentile per-packet one-way delay: 121.521 ms

Loss rate: 25.85%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-07-03 19:45:24

End at: 2018-07-03 19:45:54

Local clock offset: -2.204 ms

Remote clock offset: 7.139 ms

Below is generated by plot.py at 2018-07-03 21:59:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.24 Mbit/s

95th percentile per-packet one-way delay: 120.428 ms

Loss rate: 19.96%

-- Flow 1:

Average throughput: 56.69 Mbit/s

95th percentile per-packet one-way delay: 119.960 ms

Loss rate: 15.34%

-- Flow 2:

Average throughput: 37.50 Mbit/s

95th percentile per-packet one-way delay: 119.404 ms

Loss rate: 24.93%

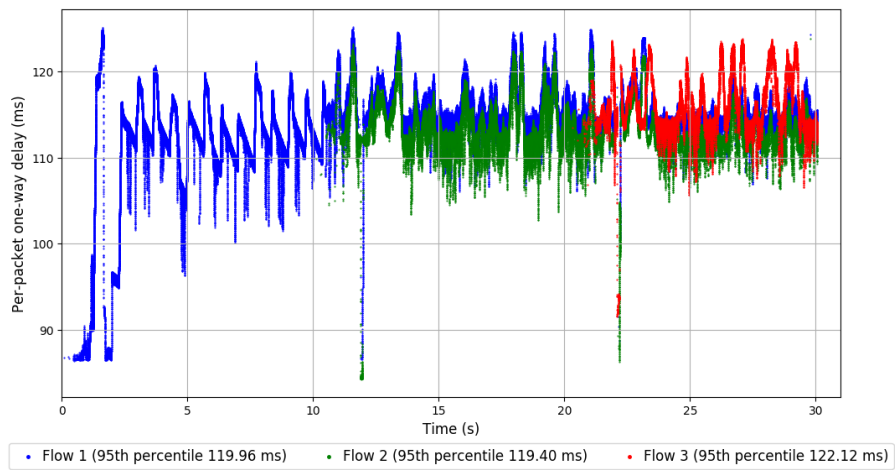
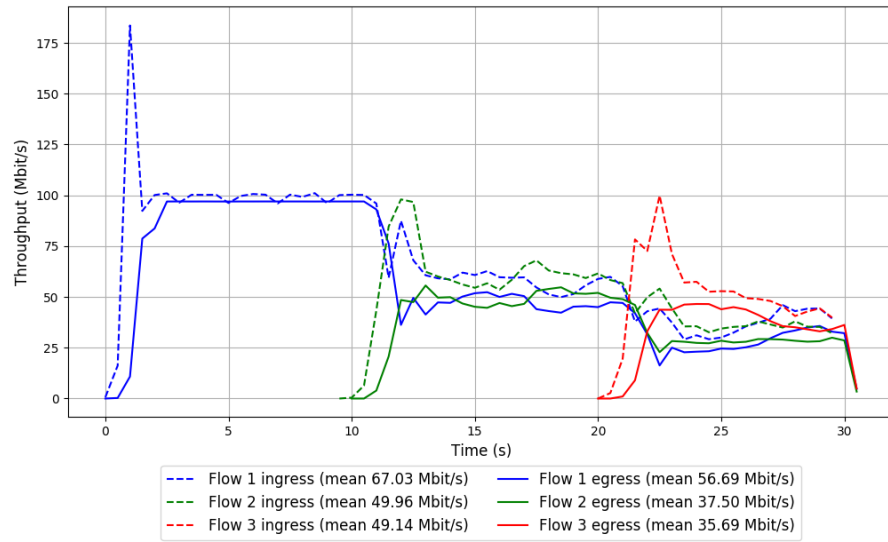
-- Flow 3:

Average throughput: 35.69 Mbit/s

95th percentile per-packet one-way delay: 122.116 ms

Loss rate: 28.83%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-07-03 20:06:27

End at: 2018-07-03 20:06:57

Local clock offset: -2.183 ms

Remote clock offset: 9.642 ms

Below is generated by plot.py at 2018-07-03 21:59:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.66 Mbit/s

95th percentile per-packet one-way delay: 122.763 ms

Loss rate: 22.14%

-- Flow 1:

Average throughput: 58.06 Mbit/s

95th percentile per-packet one-way delay: 122.450 ms

Loss rate: 16.62%

-- Flow 2:

Average throughput: 37.93 Mbit/s

95th percentile per-packet one-way delay: 123.606 ms

Loss rate: 29.77%

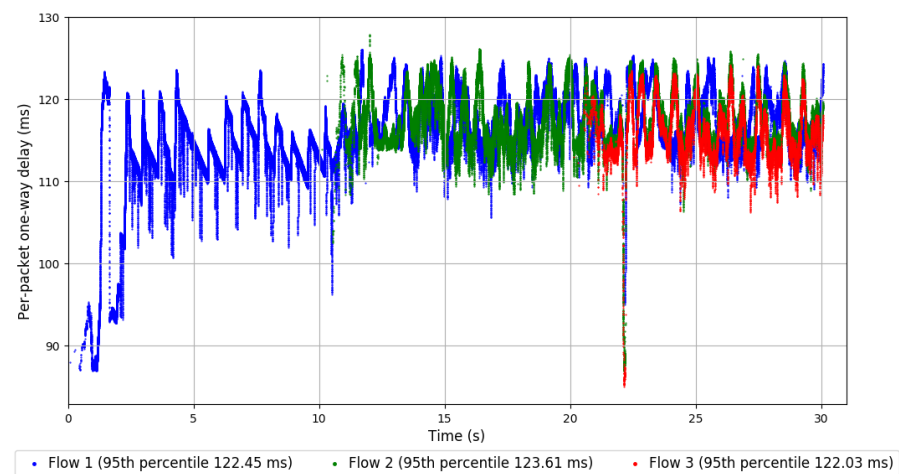
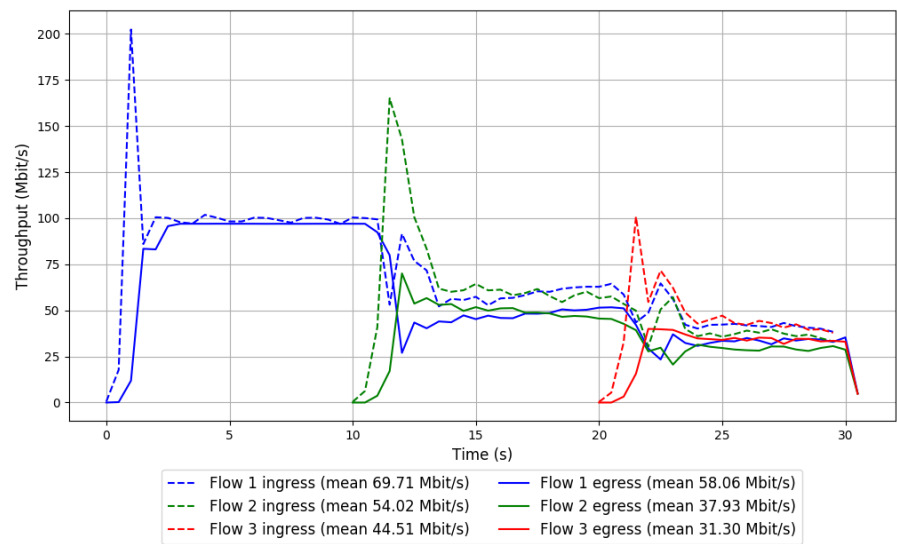
-- Flow 3:

Average throughput: 31.30 Mbit/s

95th percentile per-packet one-way delay: 122.028 ms

Loss rate: 29.63%

Run 6: Report of FillP-Sheep — Data Link

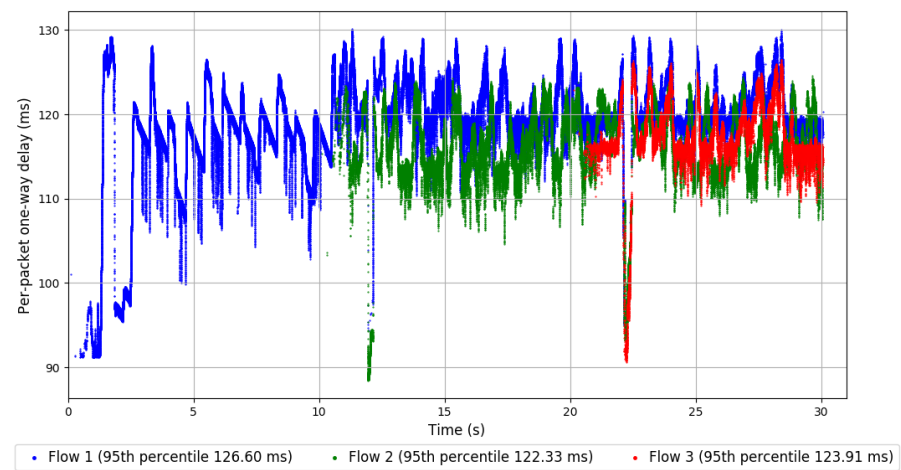
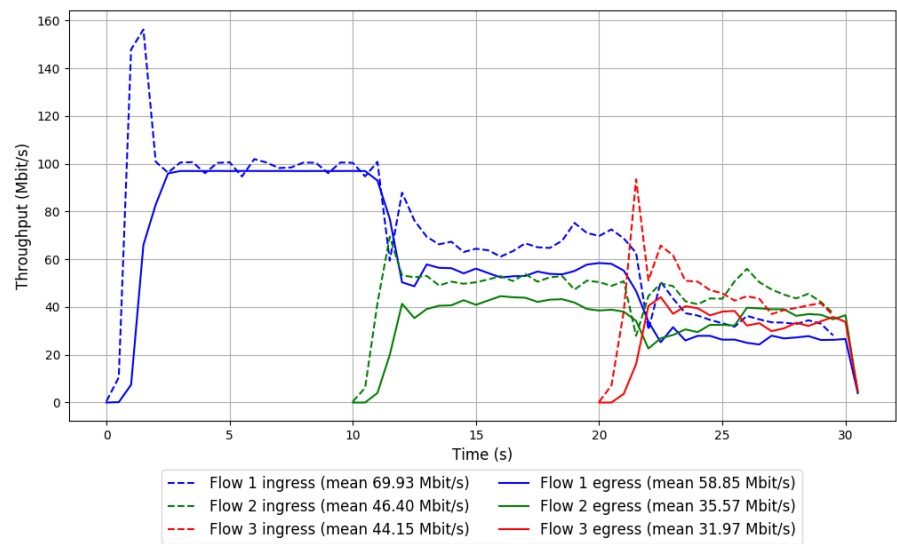


Run 7: Statistics of FillP-Sheep

Start at: 2018-07-03 20:27:27
End at: 2018-07-03 20:27:57
Local clock offset: -2.674 ms
Remote clock offset: 11.123 ms

Below is generated by plot.py at 2018-07-03 22:00:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.10 Mbit/s
95th percentile per-packet one-way delay: 125.808 ms
Loss rate: 19.32%
-- Flow 1:
Average throughput: 58.85 Mbit/s
95th percentile per-packet one-way delay: 126.599 ms
Loss rate: 15.79%
-- Flow 2:
Average throughput: 35.57 Mbit/s
95th percentile per-packet one-way delay: 122.334 ms
Loss rate: 23.36%
-- Flow 3:
Average throughput: 31.97 Mbit/s
95th percentile per-packet one-way delay: 123.912 ms
Loss rate: 27.63%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-07-03 20:48:34

End at: 2018-07-03 20:49:04

Local clock offset: -2.998 ms

Remote clock offset: 9.691 ms

Below is generated by plot.py at 2018-07-03 22:00:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.45 Mbit/s

95th percentile per-packet one-way delay: 118.509 ms

Loss rate: 20.10%

-- Flow 1:

Average throughput: 59.67 Mbit/s

95th percentile per-packet one-way delay: 116.792 ms

Loss rate: 15.04%

-- Flow 2:

Average throughput: 31.27 Mbit/s

95th percentile per-packet one-way delay: 120.194 ms

Loss rate: 23.49%

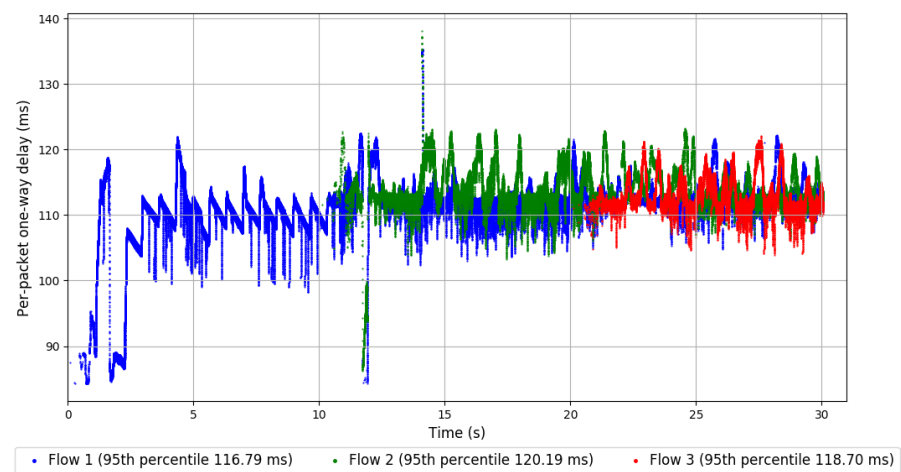
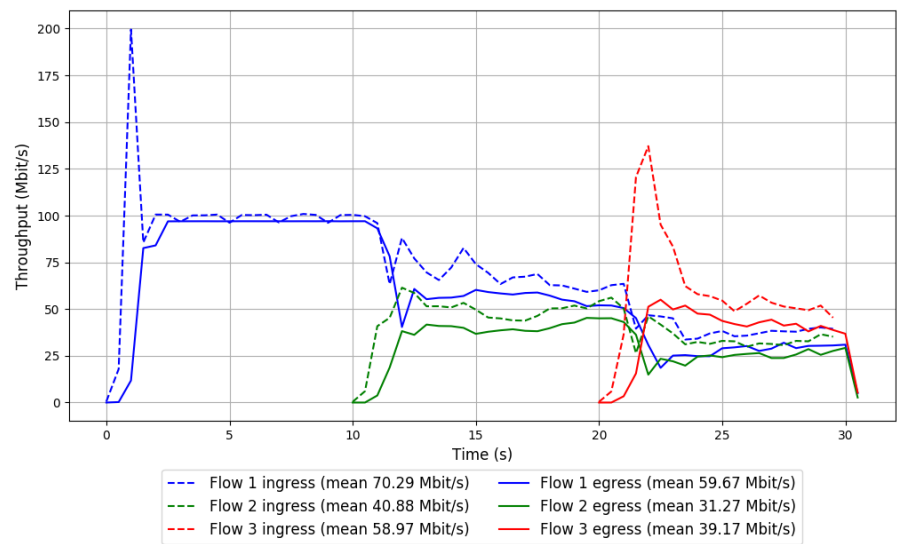
-- Flow 3:

Average throughput: 39.17 Mbit/s

95th percentile per-packet one-way delay: 118.700 ms

Loss rate: 33.57%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-03 21:09:41

End at: 2018-07-03 21:10:11

Local clock offset: -3.301 ms

Remote clock offset: 6.446 ms

Below is generated by plot.py at 2018-07-03 22:00:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.25 Mbit/s

95th percentile per-packet one-way delay: 116.082 ms

Loss rate: 19.78%

-- Flow 1:

Average throughput: 58.62 Mbit/s

95th percentile per-packet one-way delay: 116.248 ms

Loss rate: 15.56%

-- Flow 2:

Average throughput: 36.96 Mbit/s

95th percentile per-packet one-way delay: 112.850 ms

Loss rate: 25.86%

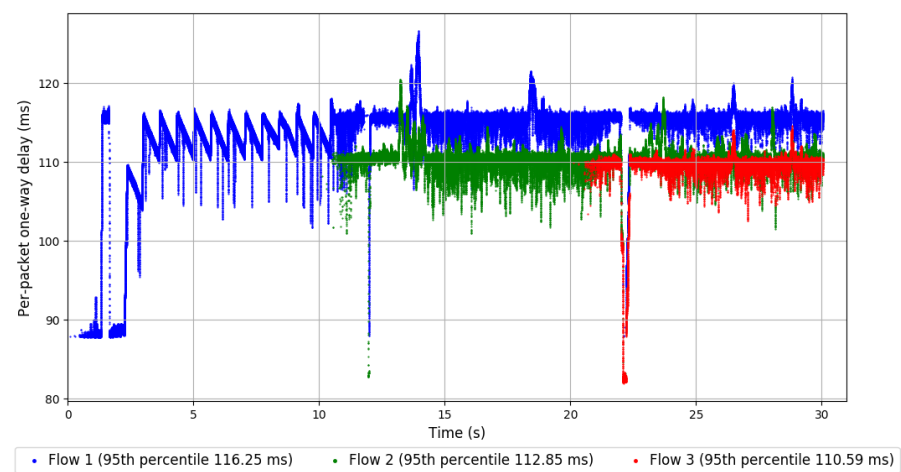
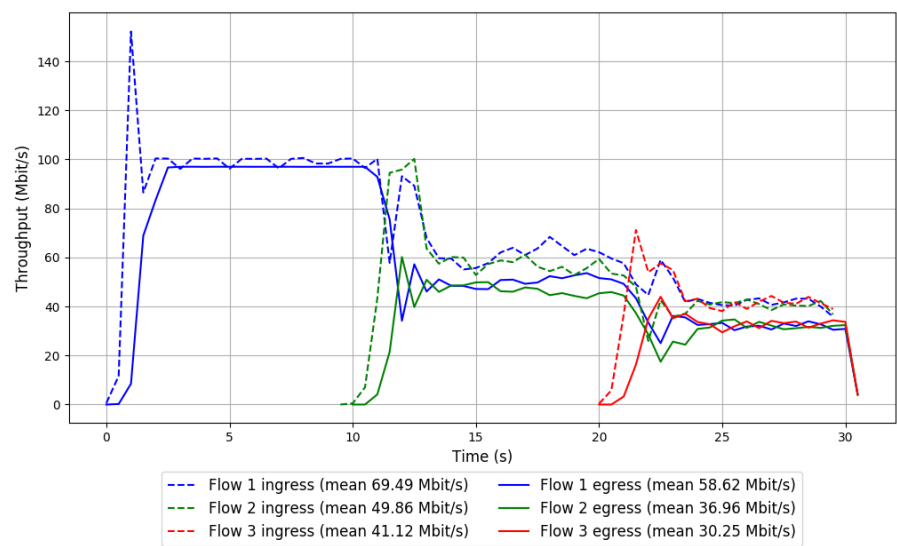
-- Flow 3:

Average throughput: 30.25 Mbit/s

95th percentile per-packet one-way delay: 110.593 ms

Loss rate: 26.42%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-07-03 21:30:50

End at: 2018-07-03 21:31:20

Local clock offset: -2.026 ms

Remote clock offset: 7.344 ms

Below is generated by plot.py at 2018-07-03 22:00:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.80 Mbit/s

95th percentile per-packet one-way delay: 114.731 ms

Loss rate: 22.10%

-- Flow 1:

Average throughput: 58.11 Mbit/s

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

Loss rate: 16.58%

-- Flow 2:

Average throughput: 39.09 Mbit/s

95th percentile per-packet one-way delay: 115.306 ms

Loss rate: 28.48%

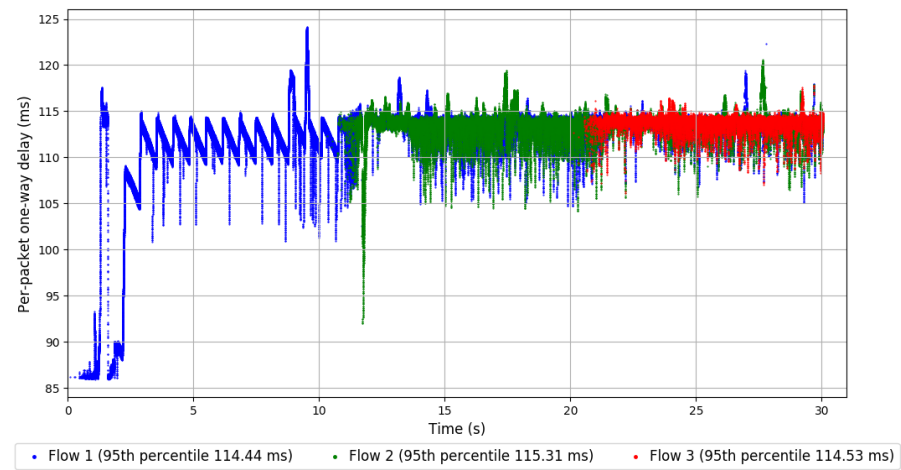
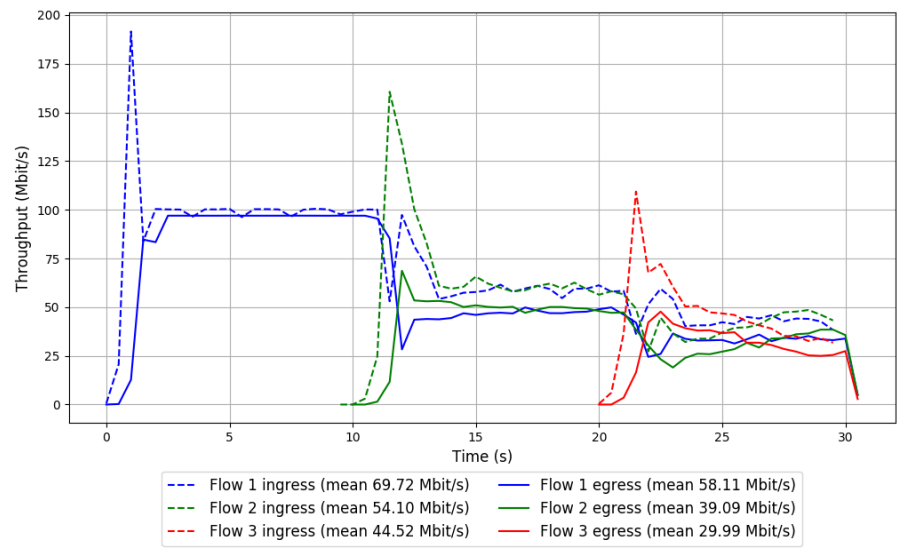
-- Flow 3:

Average throughput: 29.99 Mbit/s

95th percentile per-packet one-way delay: 114.531 ms

Loss rate: 32.62%

Run 10: Report of FillP-Sheep — Data Link

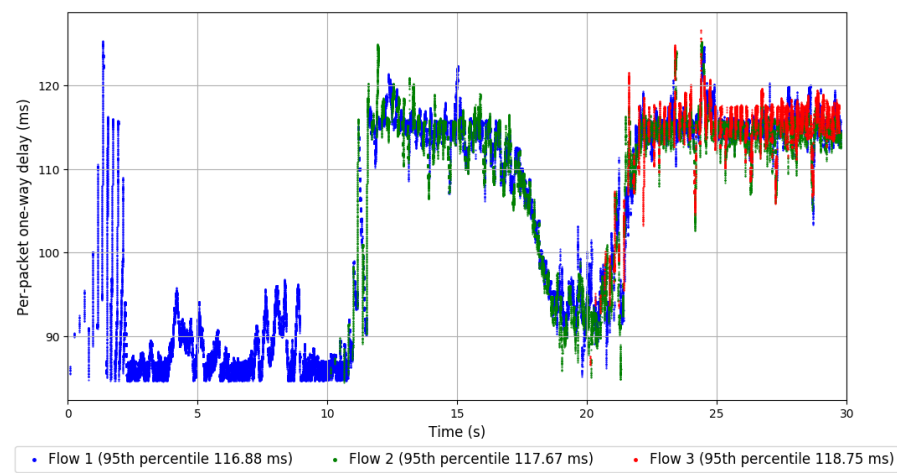
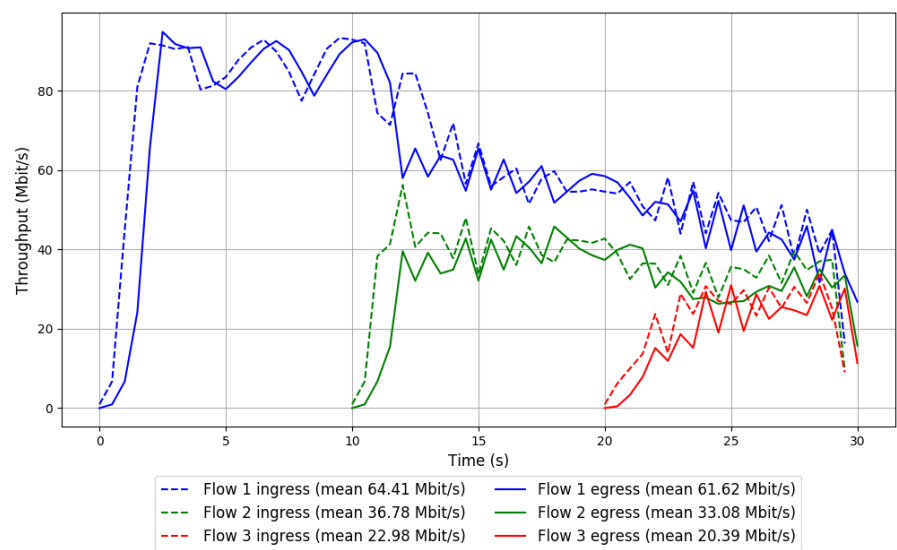


Run 1: Statistics of Indigo

Start at: 2018-07-03 18:22:09
End at: 2018-07-03 18:22:39
Local clock offset: -2.035 ms
Remote clock offset: 14.476 ms

Below is generated by plot.py at 2018-07-03 22:00:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.12 Mbit/s
95th percentile per-packet one-way delay: 117.515 ms
Loss rate: 6.20%
-- Flow 1:
Average throughput: 61.62 Mbit/s
95th percentile per-packet one-way delay: 116.875 ms
Loss rate: 4.23%
-- Flow 2:
Average throughput: 33.08 Mbit/s
95th percentile per-packet one-way delay: 117.669 ms
Loss rate: 9.92%
-- Flow 3:
Average throughput: 20.39 Mbit/s
95th percentile per-packet one-way delay: 118.755 ms
Loss rate: 10.99%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

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

End at: 2018-07-03 18:43:48

Local clock offset: -1.81 ms

Remote clock offset: 9.239 ms

Below is generated by plot.py at 2018-07-03 22:00:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.82 Mbit/s

95th percentile per-packet one-way delay: 113.809 ms

Loss rate: 4.23%

-- Flow 1:

Average throughput: 65.54 Mbit/s

95th percentile per-packet one-way delay: 113.860 ms

Loss rate: 2.54%

-- Flow 2:

Average throughput: 31.02 Mbit/s

95th percentile per-packet one-way delay: 113.339 ms

Loss rate: 9.32%

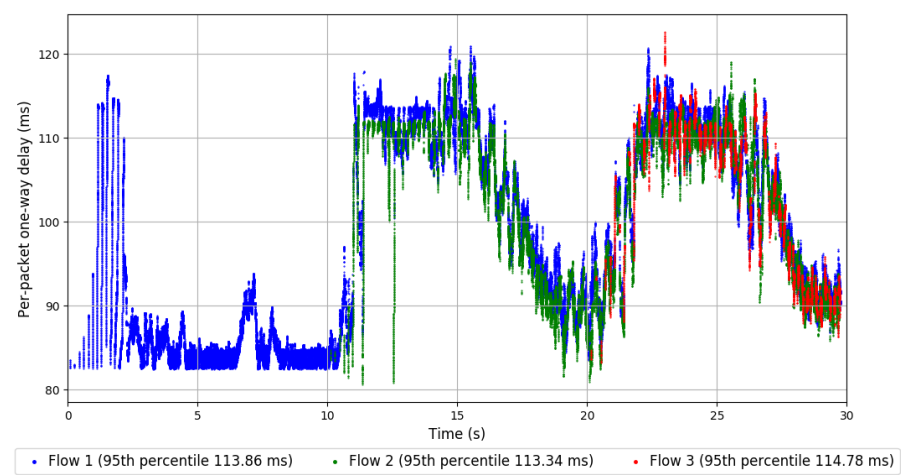
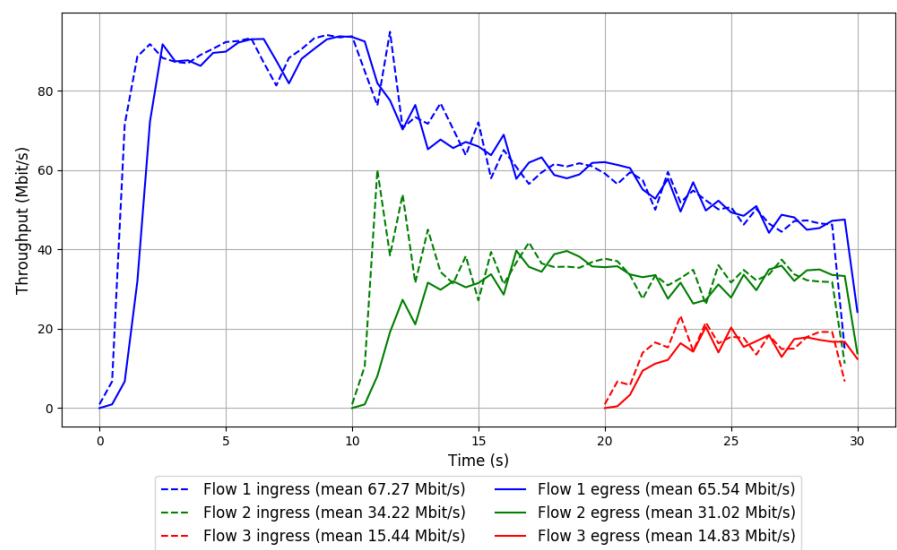
-- Flow 3:

Average throughput: 14.83 Mbit/s

95th percentile per-packet one-way delay: 114.781 ms

Loss rate: 3.89%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-07-03 19:04:26

End at: 2018-07-03 19:04:56

Local clock offset: -1.934 ms

Remote clock offset: 4.521 ms

Below is generated by plot.py at 2018-07-03 22:00:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.44 Mbit/s

95th percentile per-packet one-way delay: 114.090 ms

Loss rate: 9.82%

-- Flow 1:

Average throughput: 53.50 Mbit/s

95th percentile per-packet one-way delay: 113.042 ms

Loss rate: 7.74%

-- Flow 2:

Average throughput: 36.79 Mbit/s

95th percentile per-packet one-way delay: 114.321 ms

Loss rate: 9.83%

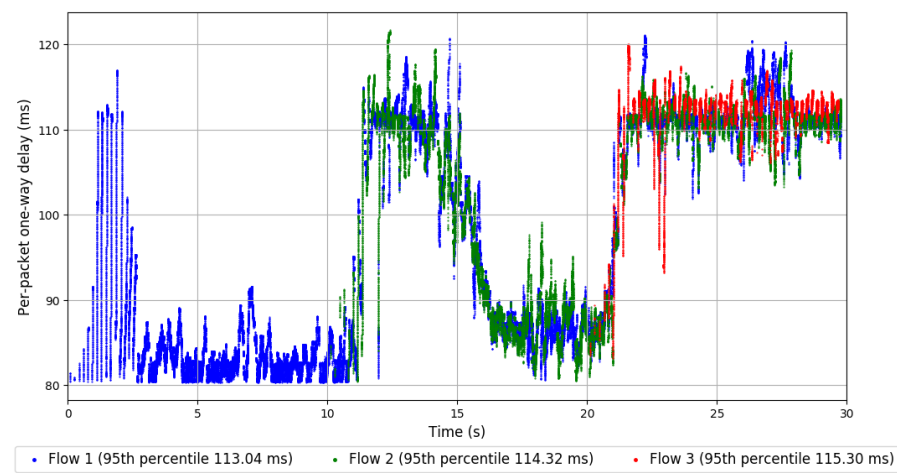
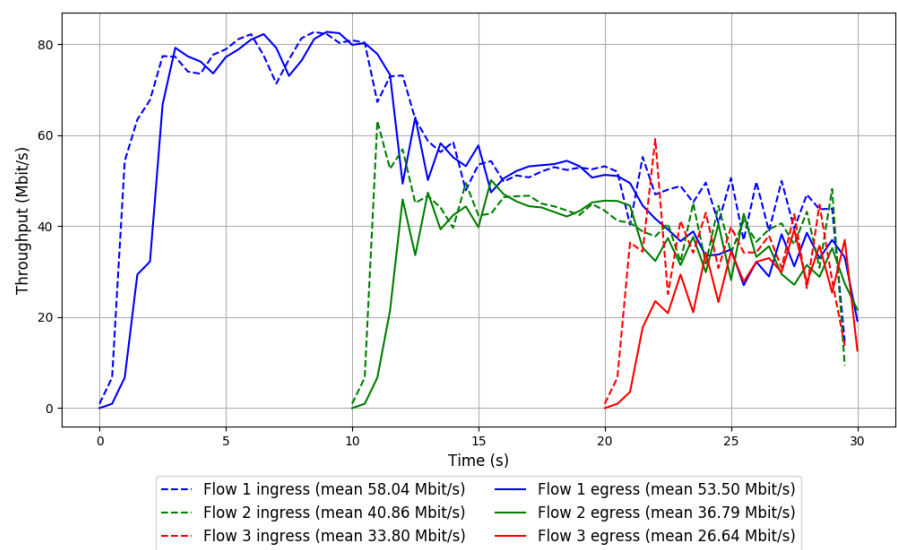
-- Flow 3:

Average throughput: 26.64 Mbit/s

95th percentile per-packet one-way delay: 115.303 ms

Loss rate: 20.94%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-07-03 19:25:35

End at: 2018-07-03 19:26:05

Local clock offset: -2.162 ms

Remote clock offset: 6.199 ms

Below is generated by plot.py at 2018-07-03 22:01:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.26 Mbit/s

95th percentile per-packet one-way delay: 122.165 ms

Loss rate: 6.88%

-- Flow 1:

Average throughput: 53.71 Mbit/s

95th percentile per-packet one-way delay: 120.791 ms

Loss rate: 5.00%

-- Flow 2:

Average throughput: 38.64 Mbit/s

95th percentile per-packet one-way delay: 123.089 ms

Loss rate: 5.56%

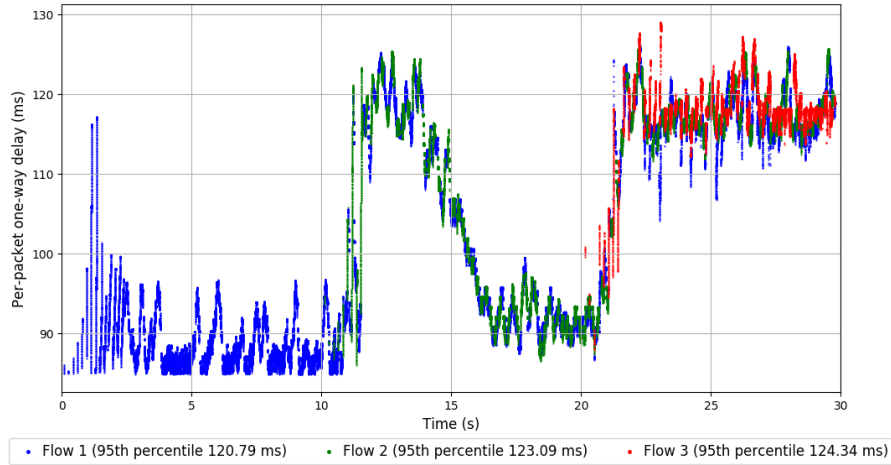
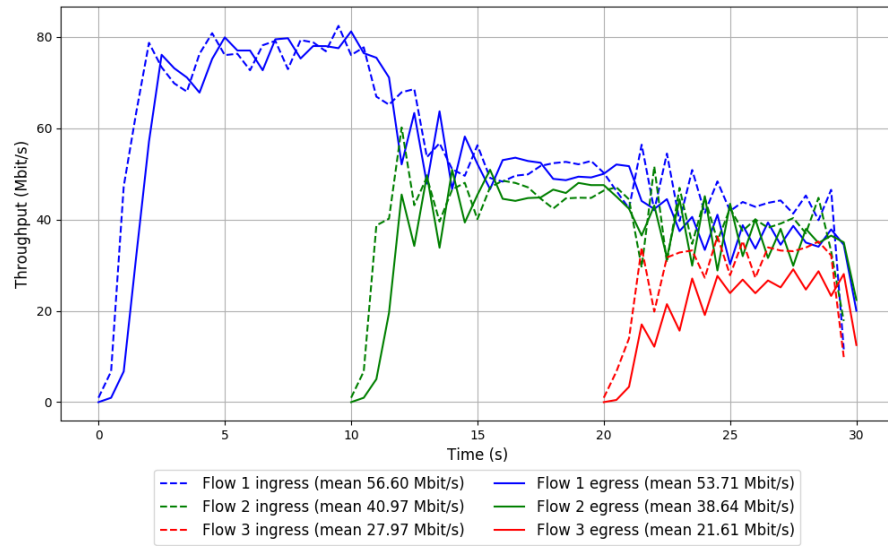
-- Flow 3:

Average throughput: 21.61 Mbit/s

95th percentile per-packet one-way delay: 124.339 ms

Loss rate: 22.57%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-07-03 19:46:40

End at: 2018-07-03 19:47:10

Local clock offset: -2.189 ms

Remote clock offset: 8.591 ms

Below is generated by plot.py at 2018-07-03 22:01:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.01 Mbit/s

95th percentile per-packet one-way delay: 124.475 ms

Loss rate: 8.36%

-- Flow 1:

Average throughput: 49.40 Mbit/s

95th percentile per-packet one-way delay: 122.950 ms

Loss rate: 3.89%

-- Flow 2:

Average throughput: 38.61 Mbit/s

95th percentile per-packet one-way delay: 125.724 ms

Loss rate: 7.87%

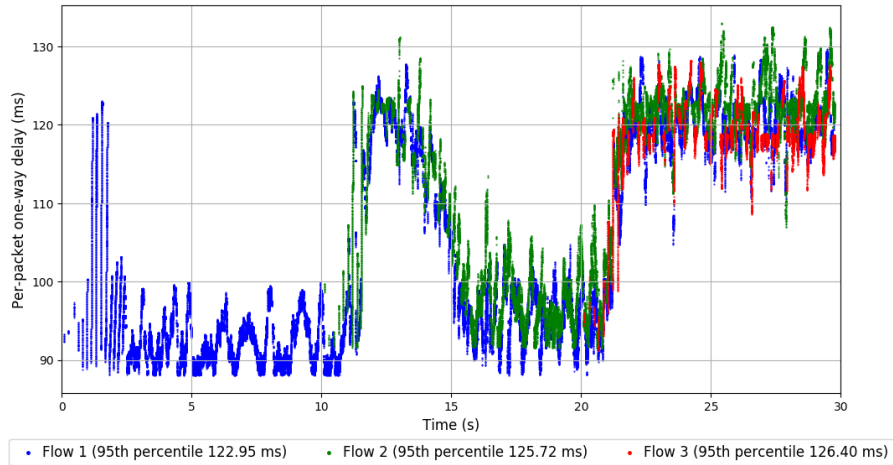
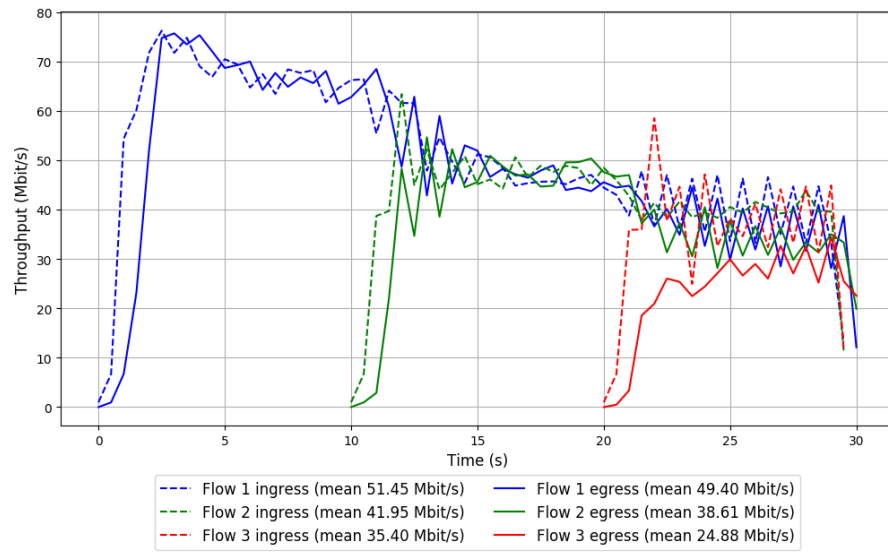
-- Flow 3:

Average throughput: 24.88 Mbit/s

95th percentile per-packet one-way delay: 126.402 ms

Loss rate: 29.54%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-07-03 20:07:43

End at: 2018-07-03 20:08:13

Local clock offset: -2.175 ms

Remote clock offset: 8.853 ms

Below is generated by plot.py at 2018-07-03 22:01:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.32 Mbit/s

95th percentile per-packet one-way delay: 124.554 ms

Loss rate: 10.34%

-- Flow 1:

Average throughput: 56.52 Mbit/s

95th percentile per-packet one-way delay: 125.283 ms

Loss rate: 5.28%

-- Flow 2:

Average throughput: 36.50 Mbit/s

95th percentile per-packet one-way delay: 122.150 ms

Loss rate: 17.96%

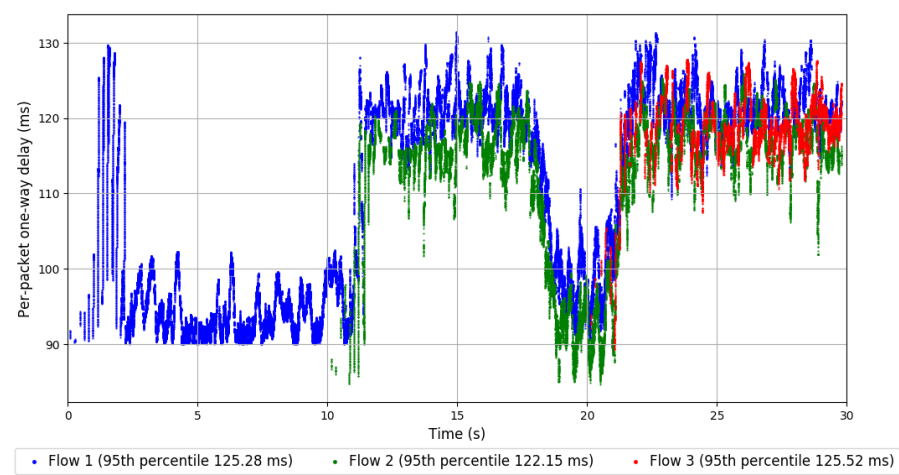
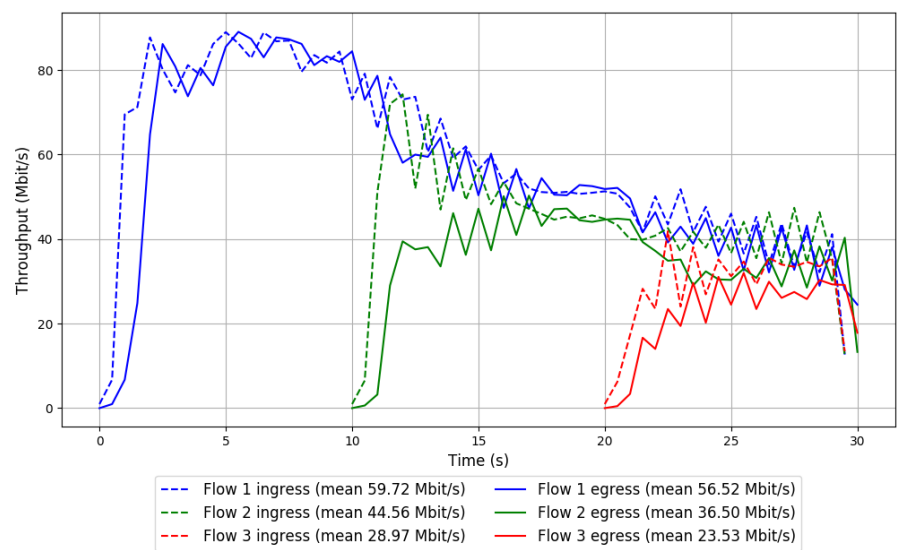
-- Flow 3:

Average throughput: 23.53 Mbit/s

95th percentile per-packet one-way delay: 125.515 ms

Loss rate: 18.58%

Run 6: Report of Indigo — Data Link

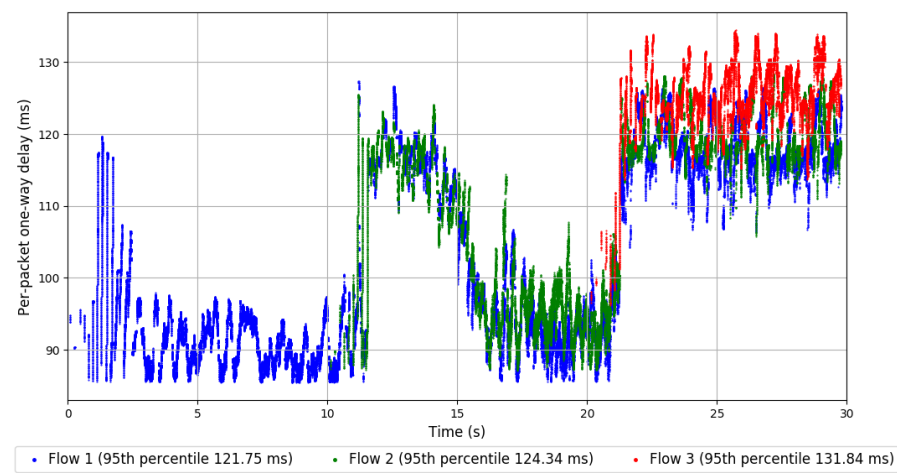
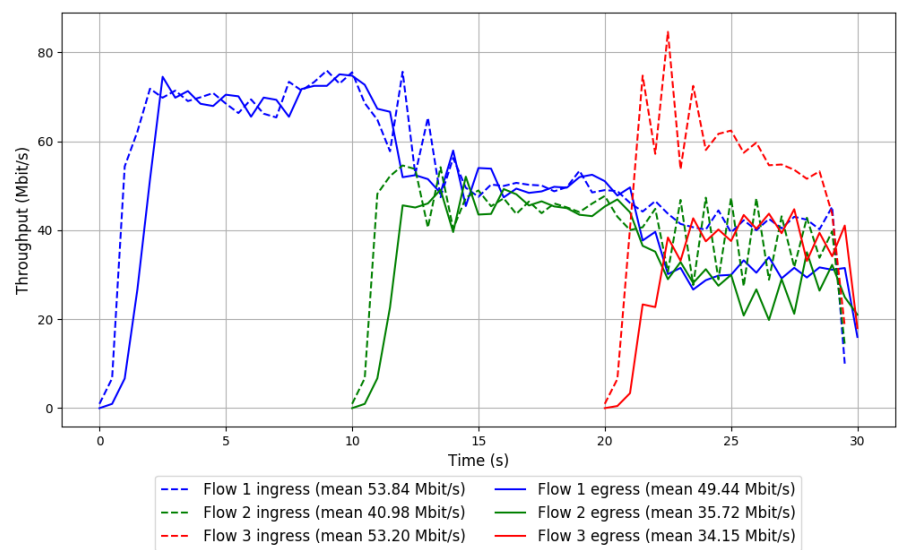


Run 7: Statistics of Indigo

Start at: 2018-07-03 20:28:43
End at: 2018-07-03 20:29:13
Local clock offset: -2.741 ms
Remote clock offset: 11.179 ms

Below is generated by plot.py at 2018-07-03 22:01:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.18 Mbit/s
95th percentile per-packet one-way delay: 126.598 ms
Loss rate: 14.17%
-- Flow 1:
Average throughput: 49.44 Mbit/s
95th percentile per-packet one-way delay: 121.746 ms
Loss rate: 8.07%
-- Flow 2:
Average throughput: 35.72 Mbit/s
95th percentile per-packet one-way delay: 124.339 ms
Loss rate: 12.68%
-- Flow 3:
Average throughput: 34.15 Mbit/s
95th percentile per-packet one-way delay: 131.845 ms
Loss rate: 35.61%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-07-03 20:49:50

End at: 2018-07-03 20:50:20

Local clock offset: -3.078 ms

Remote clock offset: 5.829 ms

Below is generated by plot.py at 2018-07-03 22:01:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.74 Mbit/s

95th percentile per-packet one-way delay: 117.572 ms

Loss rate: 9.93%

-- Flow 1:

Average throughput: 48.80 Mbit/s

95th percentile per-packet one-way delay: 118.078 ms

Loss rate: 3.90%

-- Flow 2:

Average throughput: 37.91 Mbit/s

95th percentile per-packet one-way delay: 117.164 ms

Loss rate: 7.84%

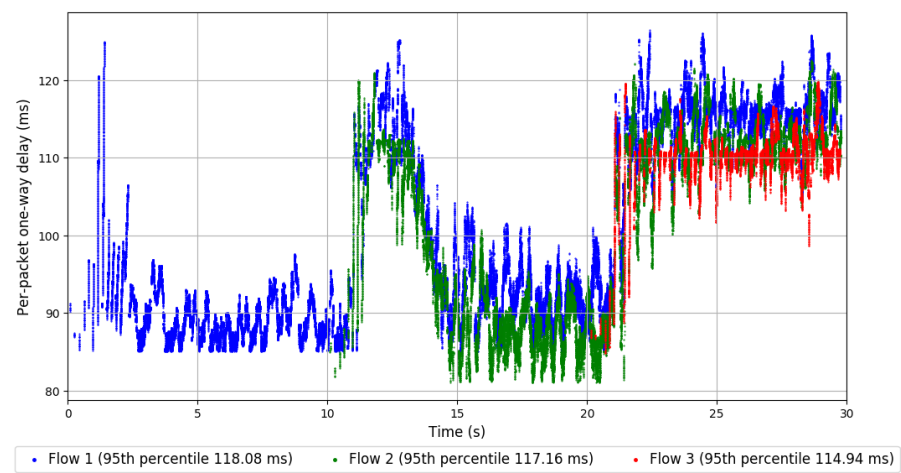
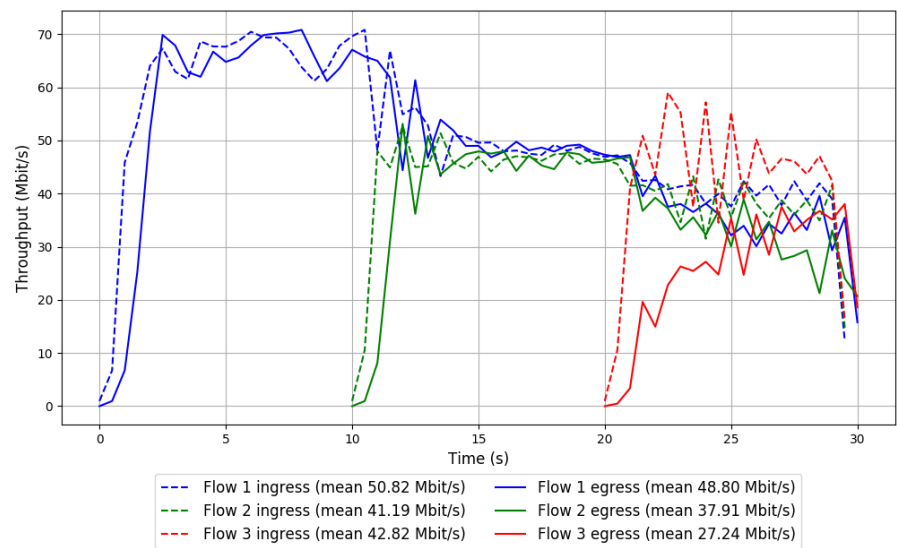
-- Flow 3:

Average throughput: 27.24 Mbit/s

95th percentile per-packet one-way delay: 114.940 ms

Loss rate: 36.21%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-07-03 21:10:57

End at: 2018-07-03 21:11:27

Local clock offset: -3.189 ms

Remote clock offset: 8.873 ms

Below is generated by plot.py at 2018-07-03 22:01:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.39 Mbit/s

95th percentile per-packet one-way delay: 115.364 ms

Loss rate: 16.14%

-- Flow 1:

Average throughput: 54.87 Mbit/s

95th percentile per-packet one-way delay: 114.250 ms

Loss rate: 7.42%

-- Flow 2:

Average throughput: 36.41 Mbit/s

95th percentile per-packet one-way delay: 115.476 ms

Loss rate: 28.10%

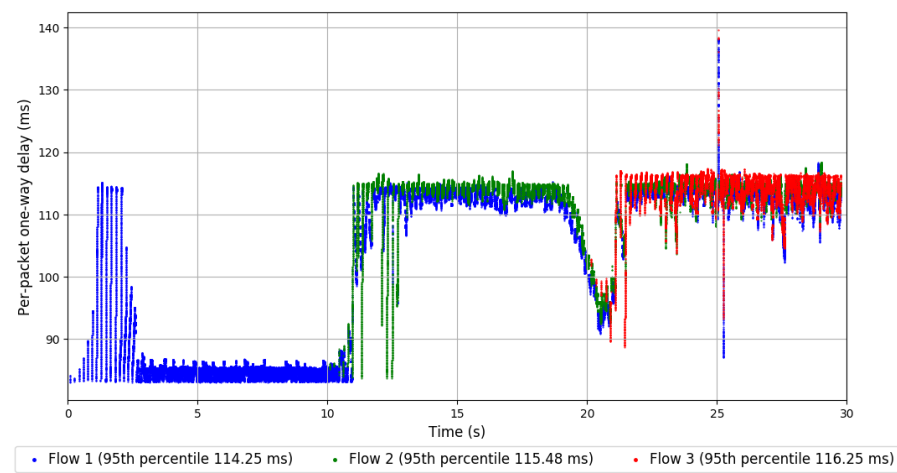
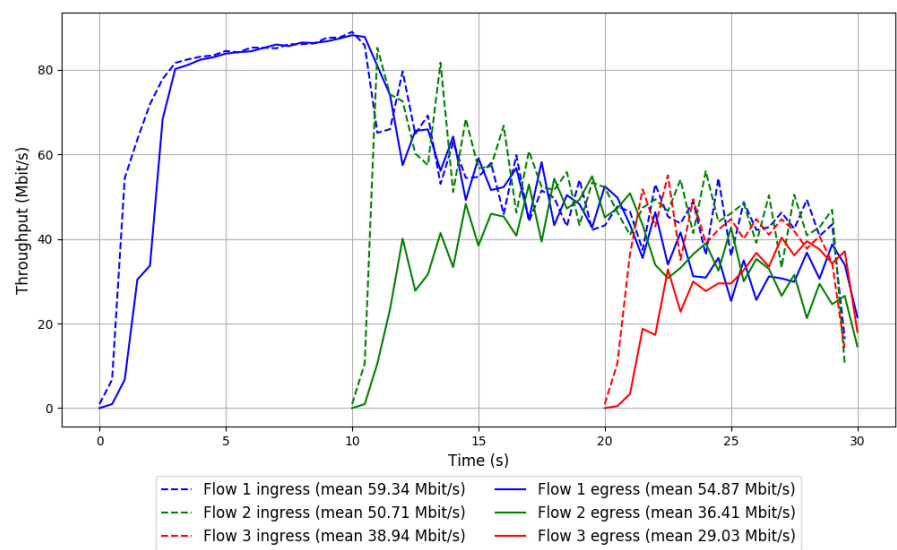
-- Flow 3:

Average throughput: 29.03 Mbit/s

95th percentile per-packet one-way delay: 116.252 ms

Loss rate: 25.34%

Run 9: Report of Indigo — Data Link

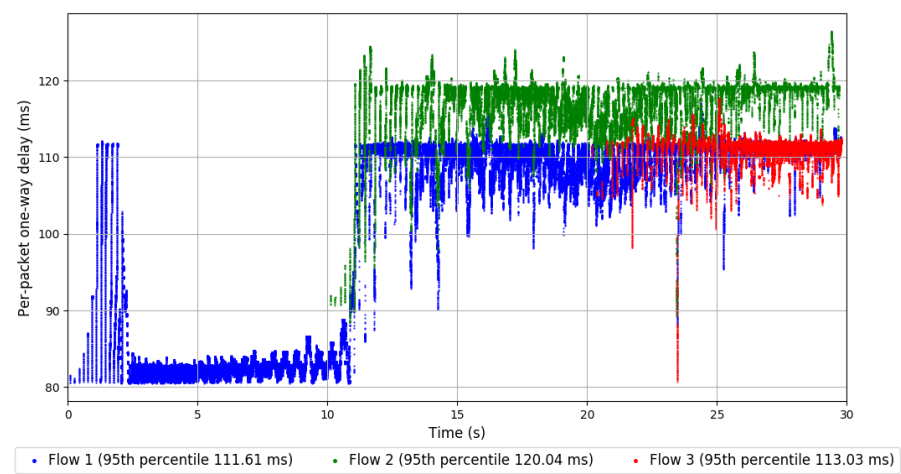
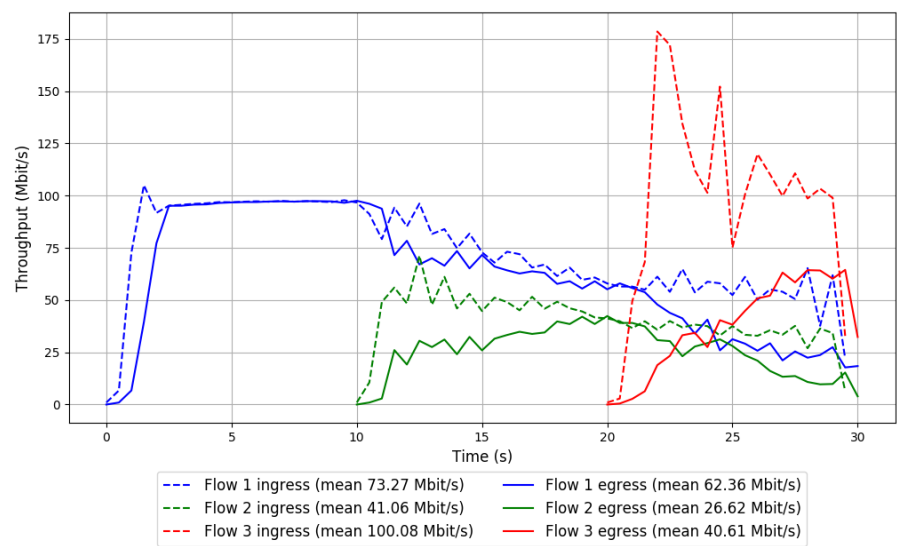


```
Run 10: Statistics of Indigo

Start at: 2018-07-03 21:32:06
End at: 2018-07-03 21:32:36
Local clock offset: -2.002 ms
Remote clock offset: 3.39 ms

# Below is generated by plot.py at 2018-07-03 22:02:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.03 Mbit/s
95th percentile per-packet one-way delay: 118.801 ms
Loss rate: 29.83%
-- Flow 1:
Average throughput: 62.36 Mbit/s
95th percentile per-packet one-way delay: 111.605 ms
Loss rate: 14.80%
-- Flow 2:
Average throughput: 26.62 Mbit/s
95th percentile per-packet one-way delay: 120.044 ms
Loss rate: 35.07%
-- Flow 3:
Average throughput: 40.61 Mbit/s
95th percentile per-packet one-way delay: 113.031 ms
Loss rate: 59.41%
```

Run 10: Report of Indigo — Data Link

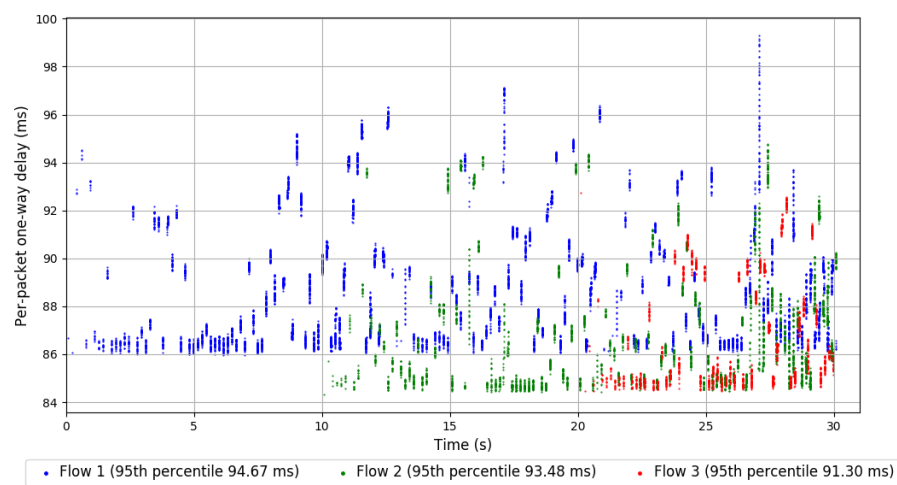
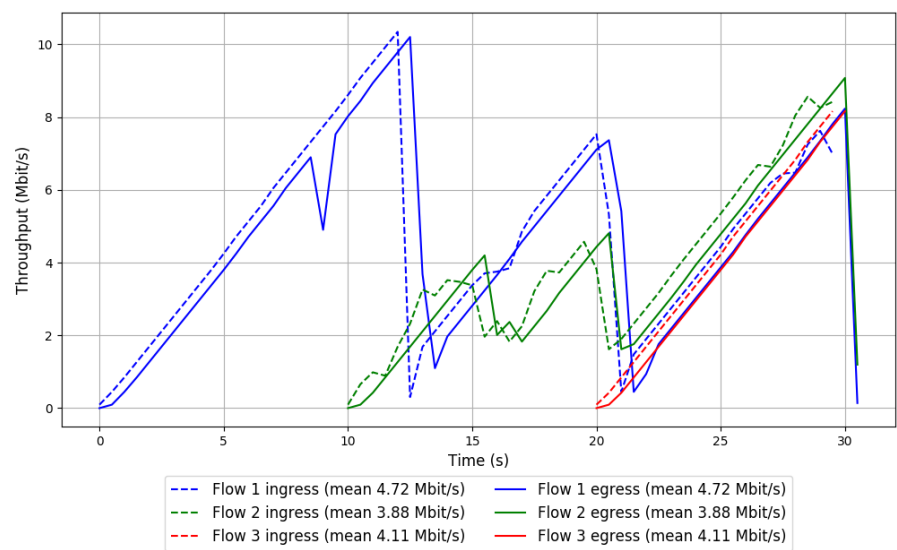


Run 1: Statistics of LEDBAT

Start at: 2018-07-03 18:19:42
End at: 2018-07-03 18:20:12
Local clock offset: -2.115 ms
Remote clock offset: 14.961 ms

Below is generated by plot.py at 2018-07-03 22:02:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.66 Mbit/s
95th percentile per-packet one-way delay: 94.005 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 4.72 Mbit/s
95th percentile per-packet one-way delay: 94.672 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 93.483 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 91.298 ms
Loss rate: 0.00%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-07-03 18:40:50

End at: 2018-07-03 18:41:20

Local clock offset: -1.732 ms

Remote clock offset: 9.412 ms

Below is generated by plot.py at 2018-07-03 22:02:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.92 Mbit/s

95th percentile per-packet one-way delay: 90.646 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 4.27 Mbit/s

95th percentile per-packet one-way delay: 89.909 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 92.348 ms

Loss rate: 0.01%

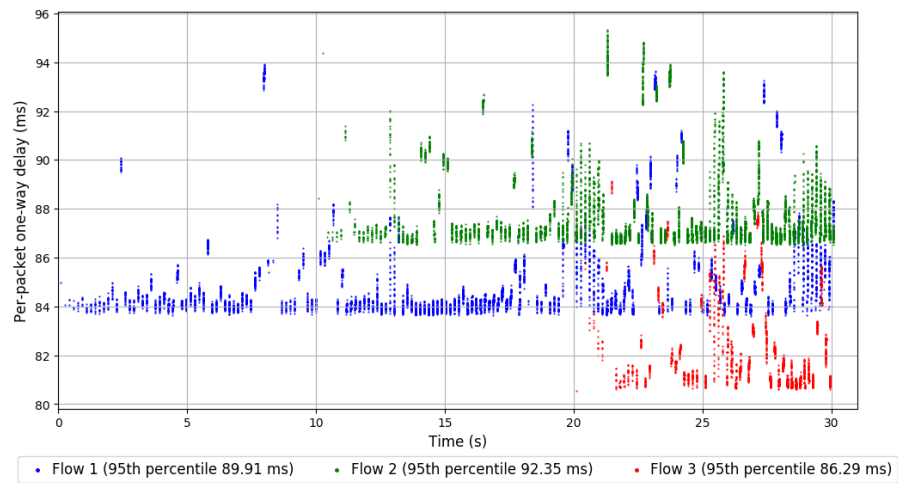
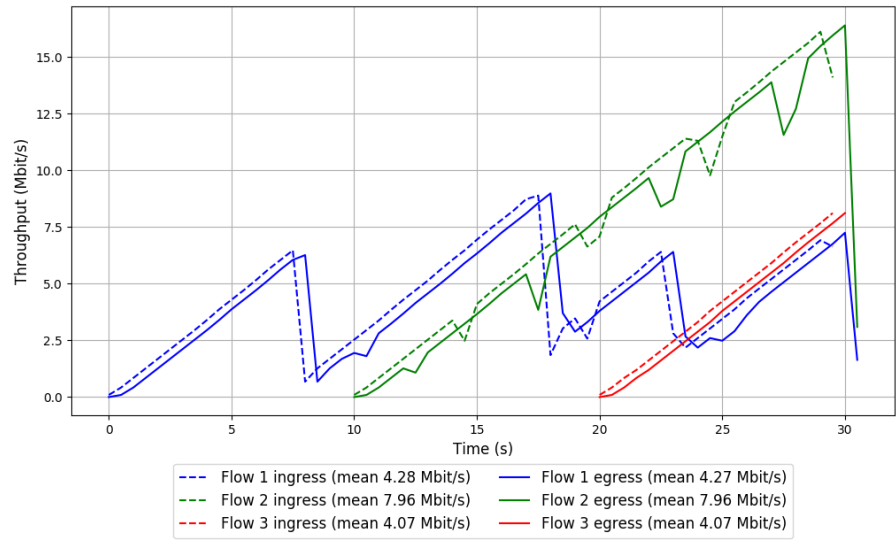
-- Flow 3:

Average throughput: 4.07 Mbit/s

95th percentile per-packet one-way delay: 86.291 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

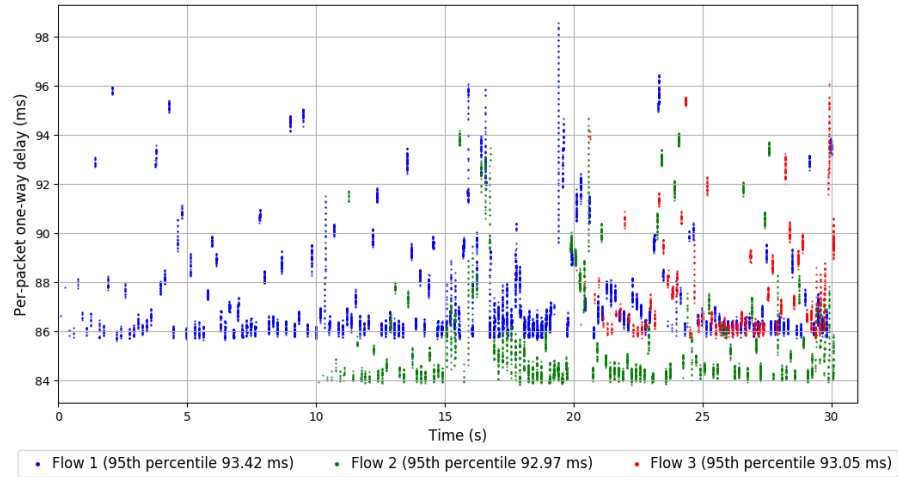
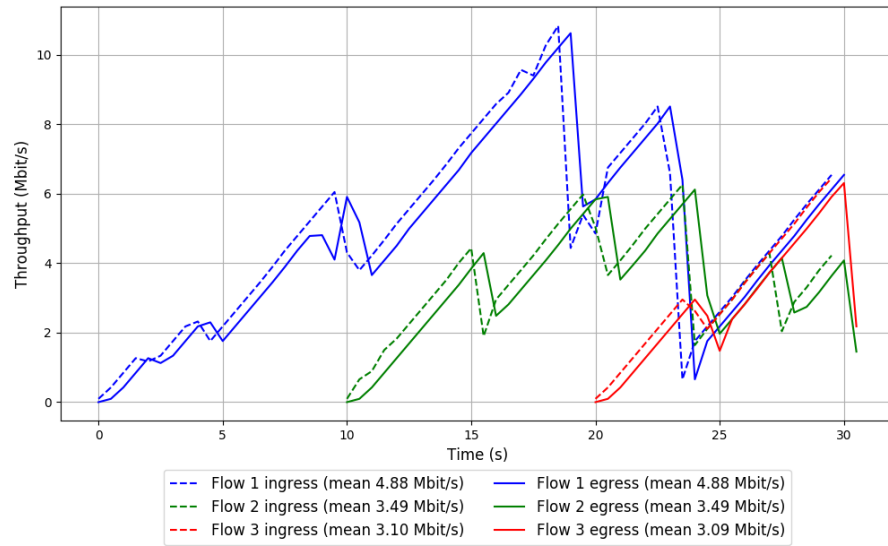


Run 3: Statistics of LEDBAT

Start at: 2018-07-03 19:01:58
End at: 2018-07-03 19:02:28
Local clock offset: -1.949 ms
Remote clock offset: 8.468 ms

```
# Below is generated by plot.py at 2018-07-03 22:02:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.21 Mbit/s
95th percentile per-packet one-way delay: 93.174 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 4.88 Mbit/s
95th percentile per-packet one-way delay: 93.416 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 3.49 Mbit/s
95th percentile per-packet one-way delay: 92.969 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 3.09 Mbit/s
95th percentile per-packet one-way delay: 93.048 ms
Loss rate: 0.08%
```

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-07-03 19:23:07

End at: 2018-07-03 19:23:37

Local clock offset: -2.213 ms

Remote clock offset: 6.653 ms

Below is generated by plot.py at 2018-07-03 22:02:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.20 Mbit/s

95th percentile per-packet one-way delay: 92.914 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 7.09 Mbit/s

95th percentile per-packet one-way delay: 92.805 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 3.03 Mbit/s

95th percentile per-packet one-way delay: 93.978 ms

Loss rate: 0.35%

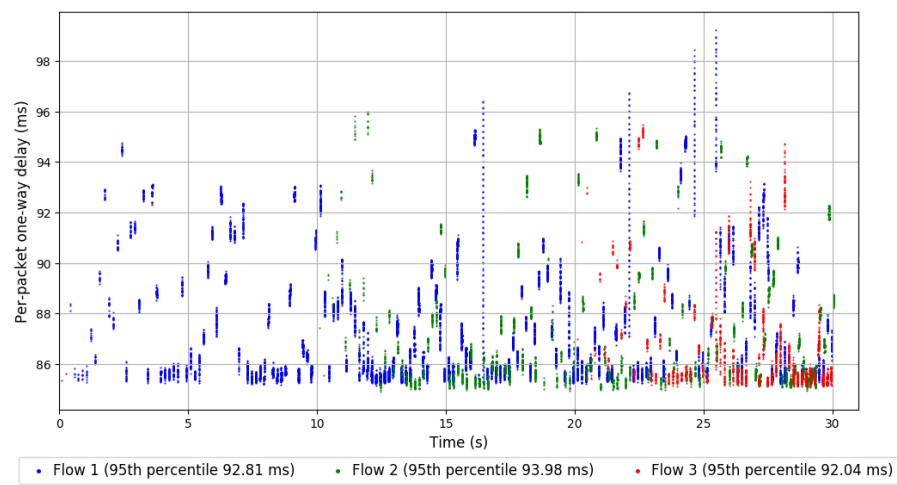
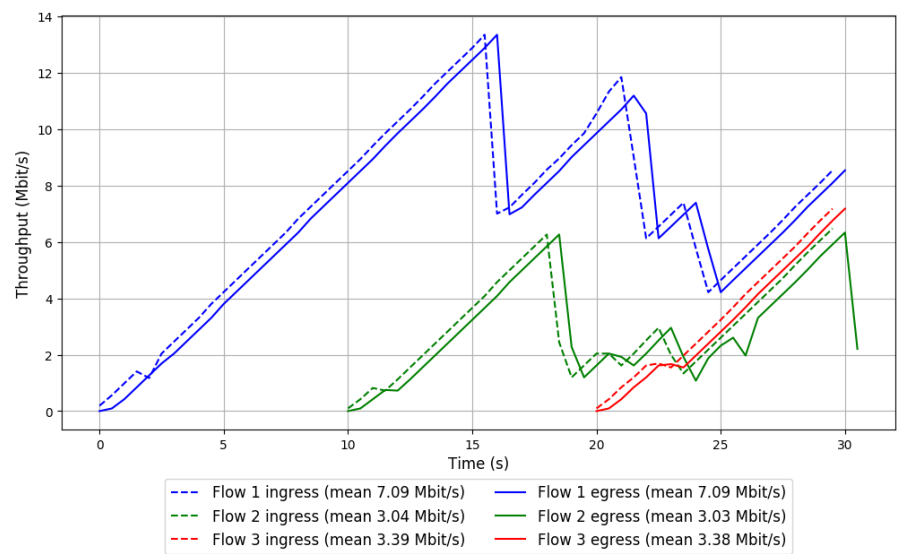
-- Flow 3:

Average throughput: 3.38 Mbit/s

95th percentile per-packet one-way delay: 92.037 ms

Loss rate: 0.04%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-07-03 19:44:12

End at: 2018-07-03 19:44:42

Local clock offset: -2.201 ms

Remote clock offset: 7.103 ms

Below is generated by plot.py at 2018-07-03 22:02:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.77 Mbit/s

95th percentile per-packet one-way delay: 95.608 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 5.07 Mbit/s

95th percentile per-packet one-way delay: 93.202 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 6.60 Mbit/s

95th percentile per-packet one-way delay: 98.383 ms

Loss rate: 0.02%

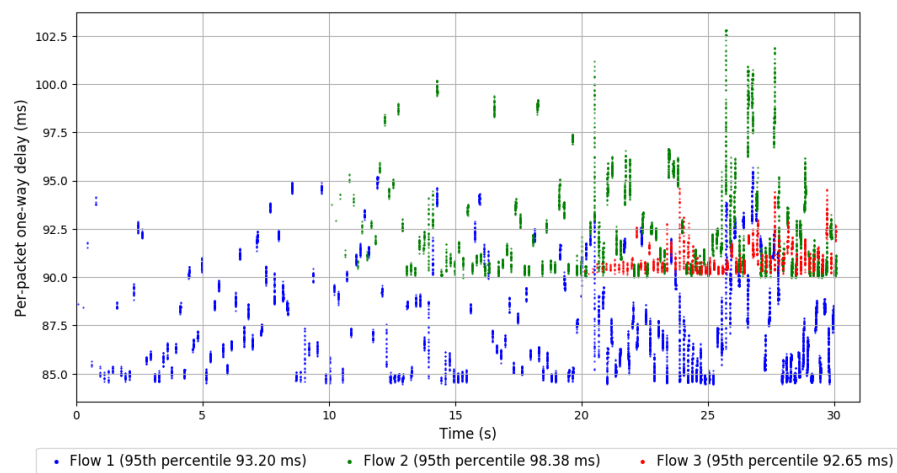
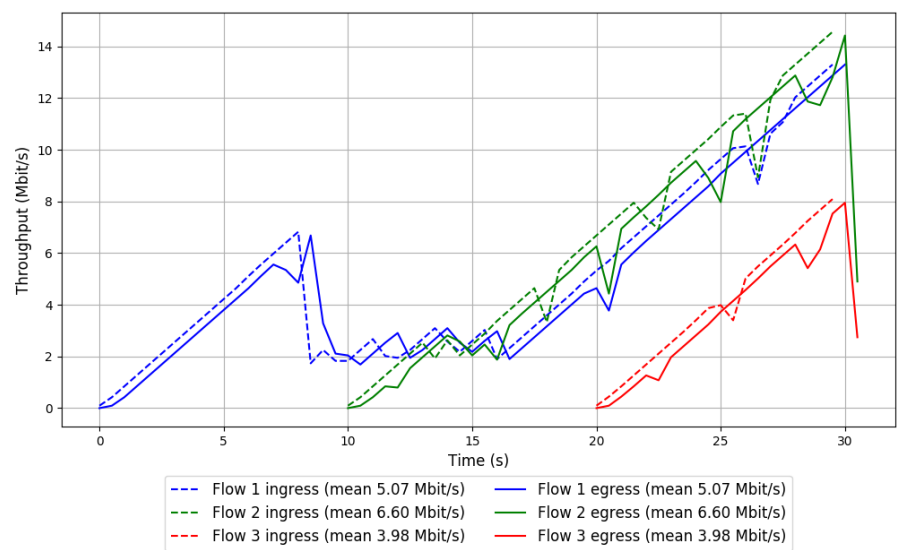
-- Flow 3:

Average throughput: 3.98 Mbit/s

95th percentile per-packet one-way delay: 92.649 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-07-03 20:05:15

End at: 2018-07-03 20:05:45

Local clock offset: -2.165 ms

Remote clock offset: 4.449 ms

Below is generated by plot.py at 2018-07-03 22:02:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.68 Mbit/s

95th percentile per-packet one-way delay: 91.519 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 2.74 Mbit/s

95th percentile per-packet one-way delay: 91.431 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 3.06 Mbit/s

95th percentile per-packet one-way delay: 91.843 ms

Loss rate: 0.23%

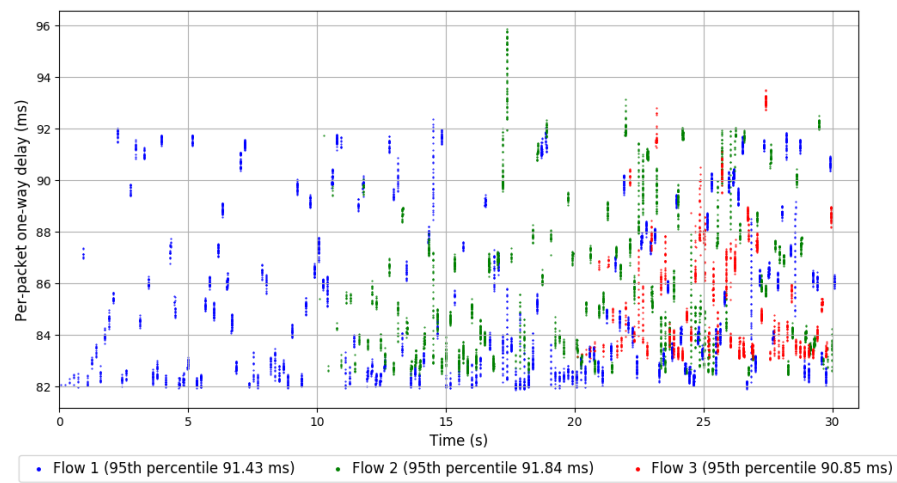
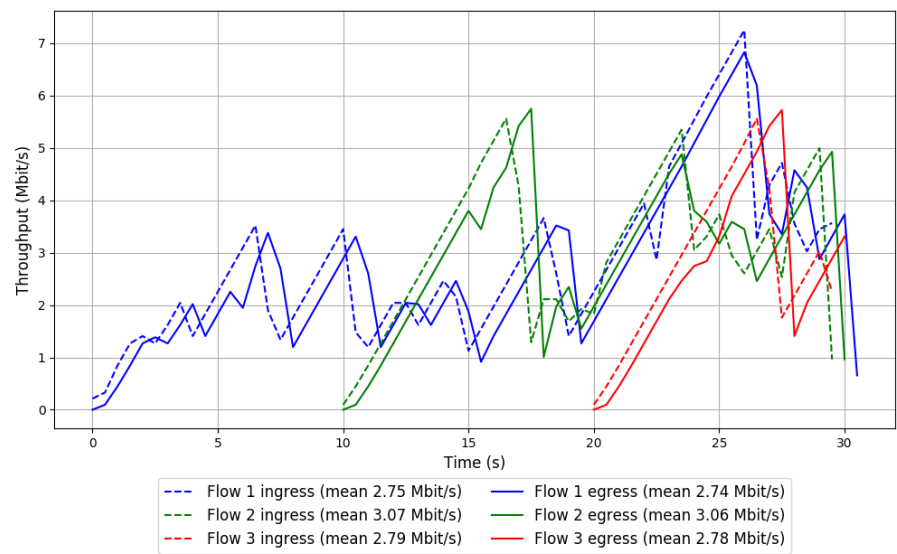
-- Flow 3:

Average throughput: 2.78 Mbit/s

95th percentile per-packet one-way delay: 90.850 ms

Loss rate: 0.21%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-07-03 20:26:16

End at: 2018-07-03 20:26:46

Local clock offset: -2.694 ms

Remote clock offset: 9.962 ms

Below is generated by plot.py at 2018-07-03 22:02:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.38 Mbit/s

95th percentile per-packet one-way delay: 95.346 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 2.90 Mbit/s

95th percentile per-packet one-way delay: 95.540 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 4.11 Mbit/s

95th percentile per-packet one-way delay: 95.034 ms

Loss rate: 0.23%

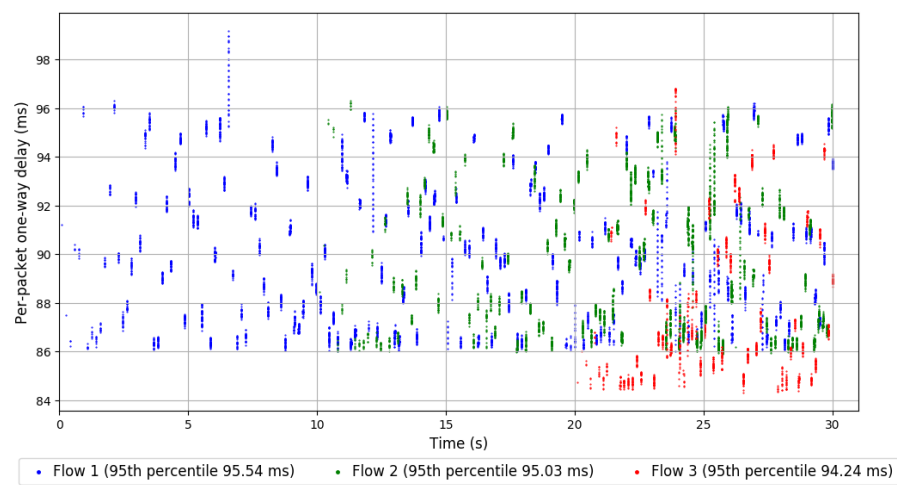
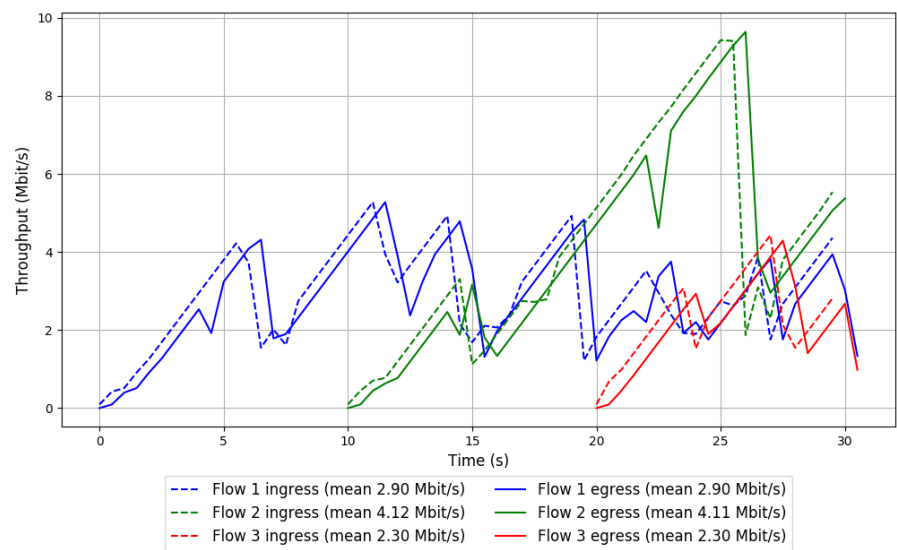
-- Flow 3:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 94.244 ms

Loss rate: 0.31%

Run 7: Report of LEDBAT — Data Link

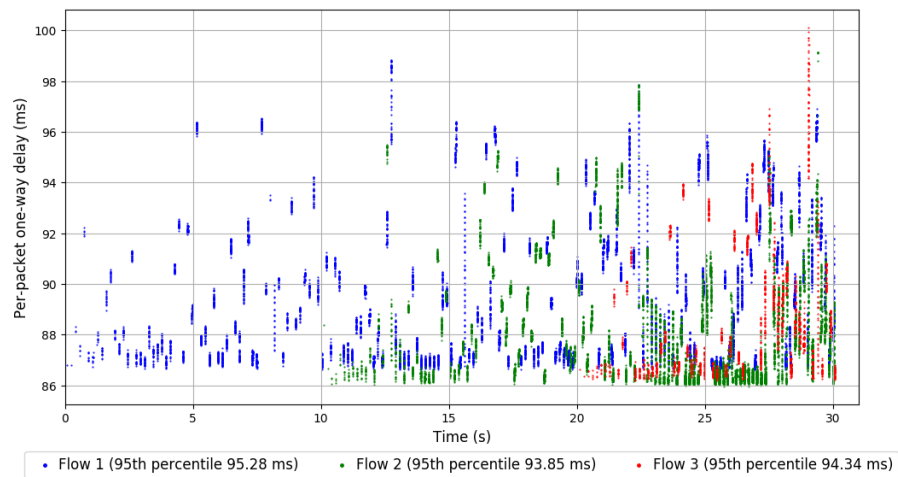
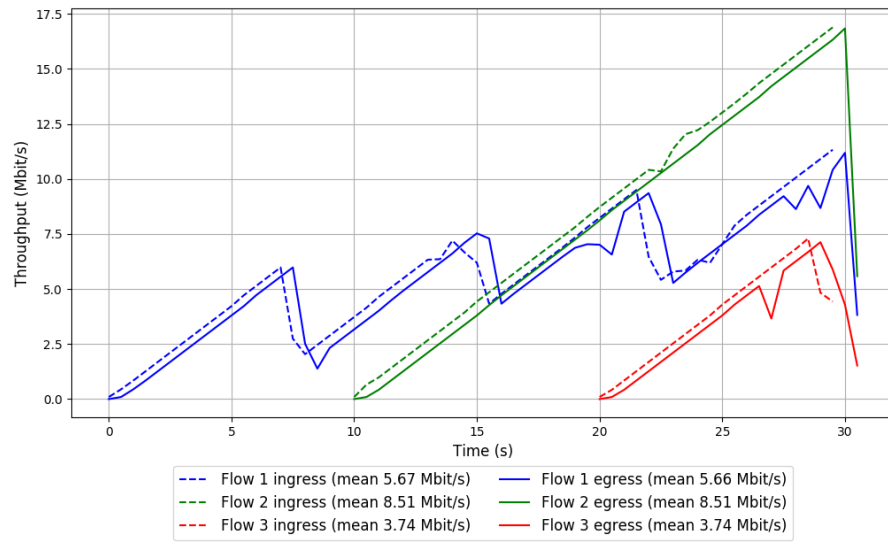


Run 8: Statistics of LEDBAT

Start at: 2018-07-03 20:47:22
End at: 2018-07-03 20:47:52
Local clock offset: -2.959 ms
Remote clock offset: 10.876 ms

Below is generated by plot.py at 2018-07-03 22:02:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.57 Mbit/s
95th percentile per-packet one-way delay: 94.576 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 5.66 Mbit/s
95th percentile per-packet one-way delay: 95.282 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 8.51 Mbit/s
95th percentile per-packet one-way delay: 93.849 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.74 Mbit/s
95th percentile per-packet one-way delay: 94.341 ms
Loss rate: 0.06%

Run 8: Report of LEDBAT — Data Link

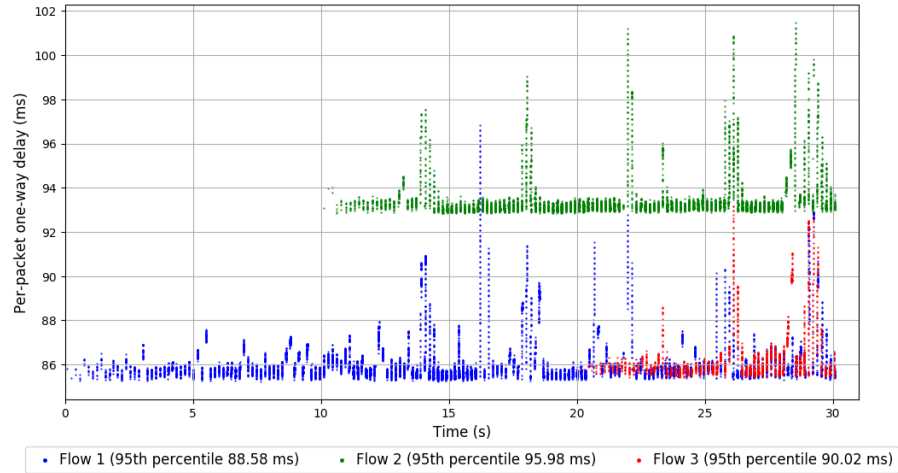
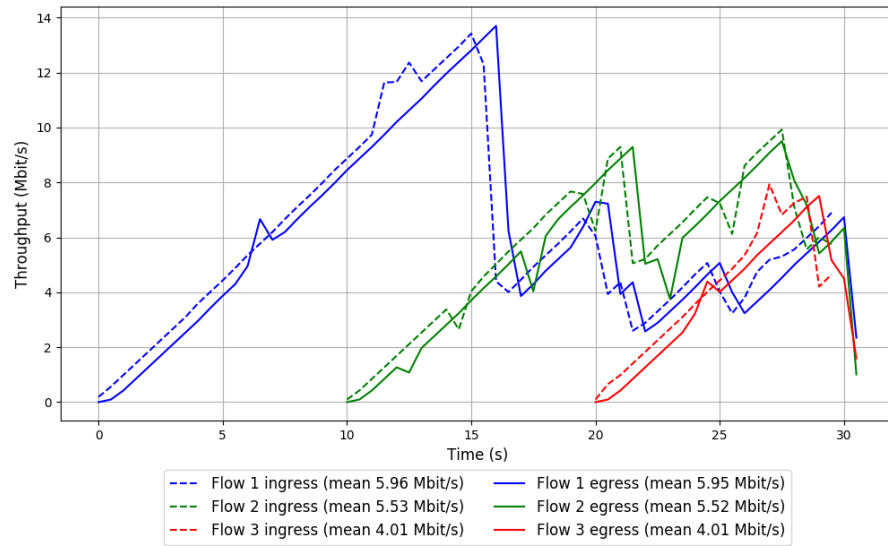


Run 9: Statistics of LEDBAT

Start at: 2018-07-03 21:08:29
End at: 2018-07-03 21:08:59
Local clock offset: -3.301 ms
Remote clock offset: 11.889 ms

Below is generated by plot.py at 2018-07-03 22:02:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 10.95 Mbit/s
95th percentile per-packet one-way delay: 93.861 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 5.95 Mbit/s
95th percentile per-packet one-way delay: 88.583 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 5.52 Mbit/s
95th percentile per-packet one-way delay: 95.980 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 4.01 Mbit/s
95th percentile per-packet one-way delay: 90.017 ms
Loss rate: 0.03%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-03 21:29:39

End at: 2018-07-03 21:30:09

Local clock offset: -2.05 ms

Remote clock offset: 7.349 ms

Below is generated by plot.py at 2018-07-03 22:02:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.04 Mbit/s

95th percentile per-packet one-way delay: 93.587 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 5.12 Mbit/s

95th percentile per-packet one-way delay: 94.999 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 8.55 Mbit/s

95th percentile per-packet one-way delay: 88.817 ms

Loss rate: 0.00%

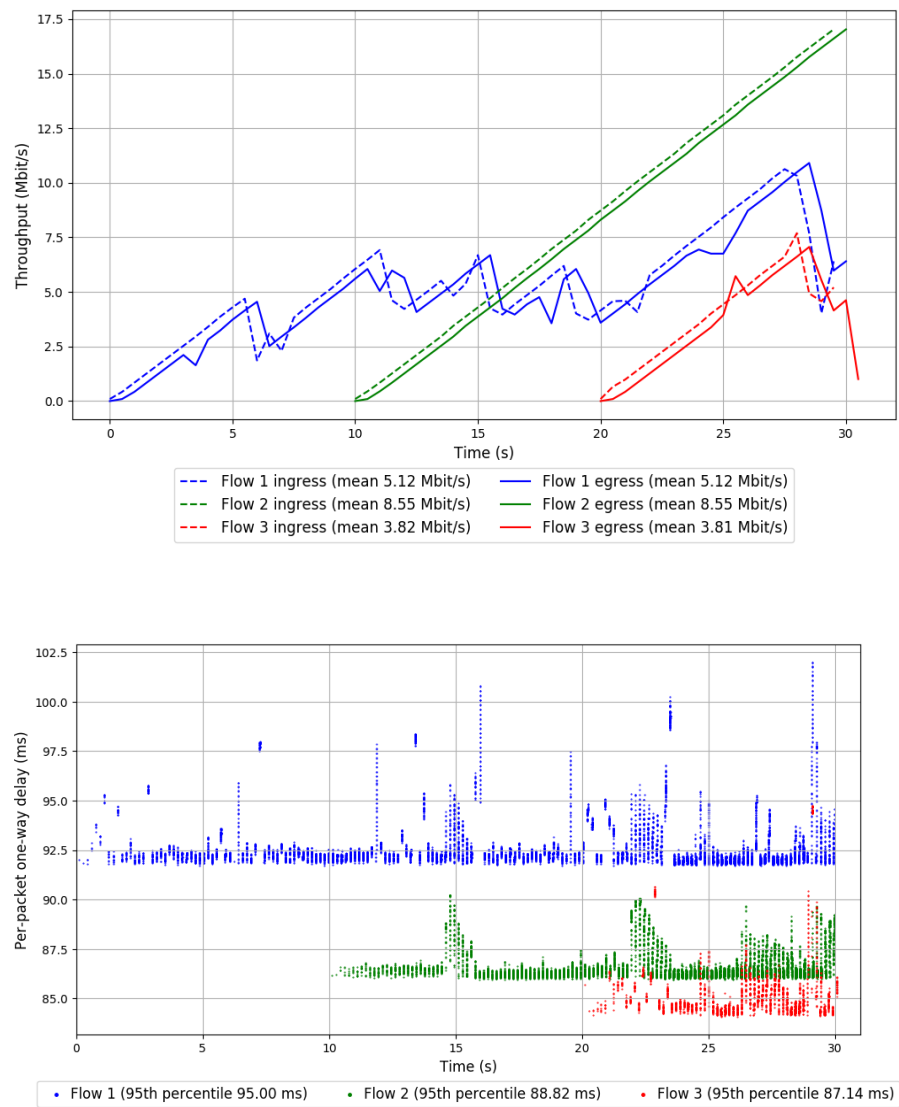
-- Flow 3:

Average throughput: 3.81 Mbit/s

95th percentile per-packet one-way delay: 87.145 ms

Loss rate: 0.03%

Run 10: Report of LEDBAT — Data Link

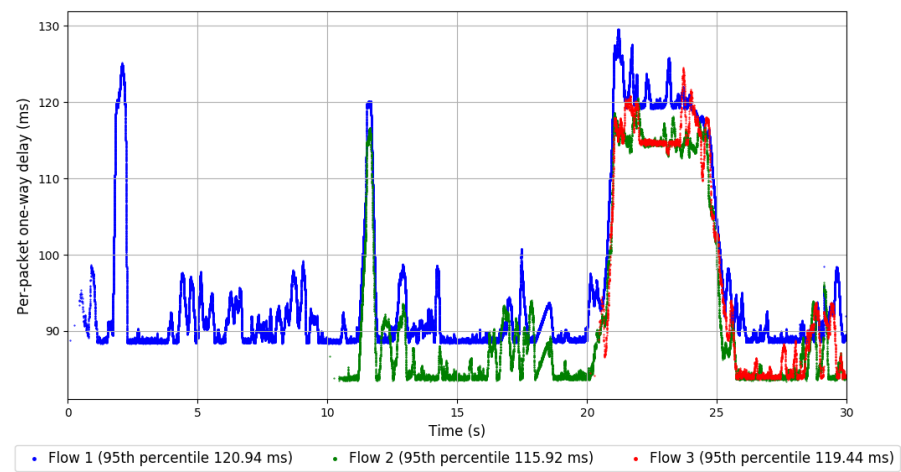
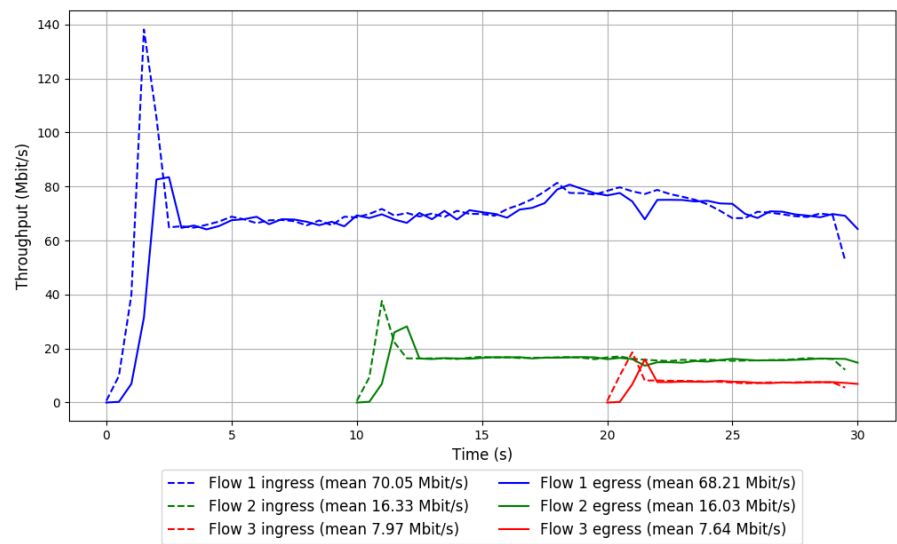


Run 1: Statistics of PCC-Allegro

Start at: 2018-07-03 18:27:12
End at: 2018-07-03 18:27:42
Local clock offset: -1.94 ms
Remote clock offset: 10.094 ms

Below is generated by plot.py at 2018-07-03 22:02:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.39 Mbit/s
95th percentile per-packet one-way delay: 120.472 ms
Loss rate: 2.58%
-- Flow 1:
Average throughput: 68.21 Mbit/s
95th percentile per-packet one-way delay: 120.939 ms
Loss rate: 2.63%
-- Flow 2:
Average throughput: 16.03 Mbit/s
95th percentile per-packet one-way delay: 115.923 ms
Loss rate: 1.89%
-- Flow 3:
Average throughput: 7.64 Mbit/s
95th percentile per-packet one-way delay: 119.441 ms
Loss rate: 4.22%

Run 1: Report of PCC-Allegro — Data Link

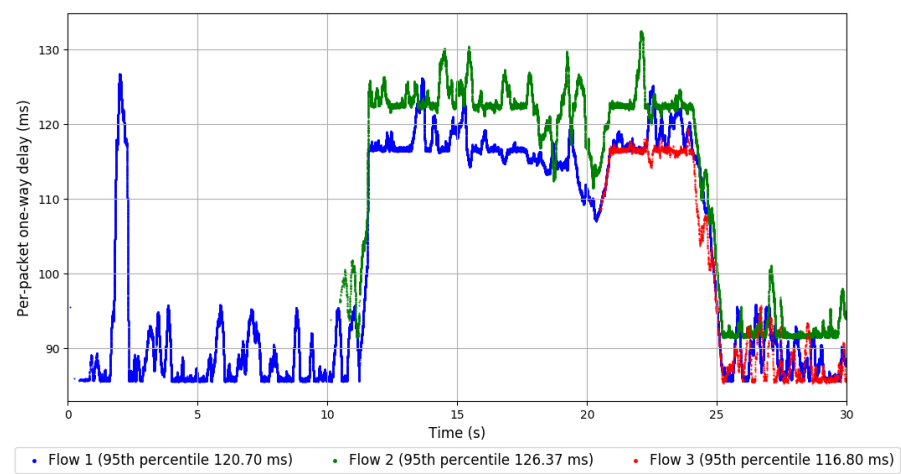
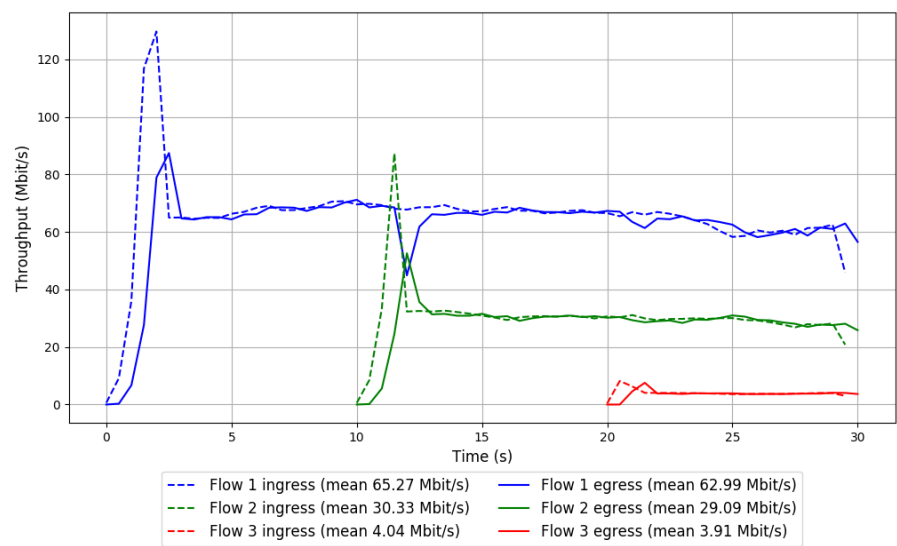


Run 2: Statistics of PCC-Allegro

Start at: 2018-07-03 18:48:19
End at: 2018-07-03 18:48:49
Local clock offset: -1.977 ms
Remote clock offset: 12.377 ms

Below is generated by plot.py at 2018-07-03 22:02:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.62 Mbit/s
95th percentile per-packet one-way delay: 123.849 ms
Loss rate: 3.65%
-- Flow 1:
Average throughput: 62.99 Mbit/s
95th percentile per-packet one-way delay: 120.698 ms
Loss rate: 3.51%
-- Flow 2:
Average throughput: 29.09 Mbit/s
95th percentile per-packet one-way delay: 126.368 ms
Loss rate: 4.09%
-- Flow 3:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 116.795 ms
Loss rate: 3.55%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-03 19:09:29

End at: 2018-07-03 19:09:59

Local clock offset: -1.908 ms

Remote clock offset: 7.984 ms

Below is generated by plot.py at 2018-07-03 22:02:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.64 Mbit/s

95th percentile per-packet one-way delay: 120.549 ms

Loss rate: 3.24%

-- Flow 1:

Average throughput: 59.40 Mbit/s

95th percentile per-packet one-way delay: 119.249 ms

Loss rate: 3.19%

-- Flow 2:

Average throughput: 30.93 Mbit/s

95th percentile per-packet one-way delay: 122.356 ms

Loss rate: 3.35%

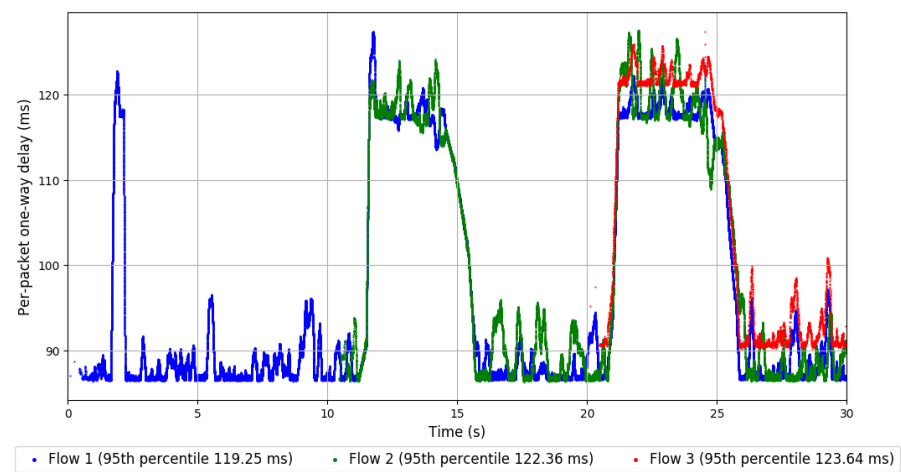
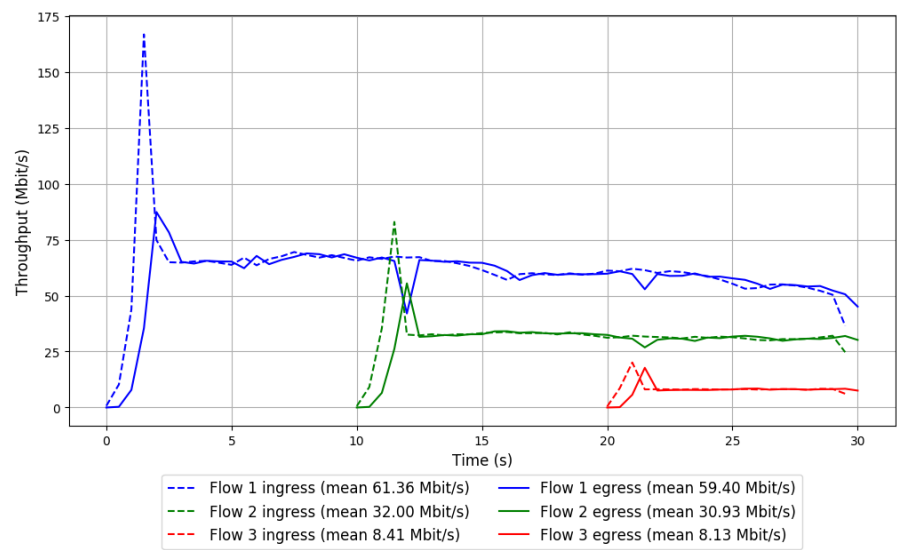
-- Flow 3:

Average throughput: 8.13 Mbit/s

95th percentile per-packet one-way delay: 123.642 ms

Loss rate: 3.40%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-03 19:30:37

End at: 2018-07-03 19:31:07

Local clock offset: -2.171 ms

Remote clock offset: 3.431 ms

Below is generated by plot.py at 2018-07-03 22:02:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.52 Mbit/s

95th percentile per-packet one-way delay: 118.842 ms

Loss rate: 4.93%

-- Flow 1:

Average throughput: 61.27 Mbit/s

95th percentile per-packet one-way delay: 117.383 ms

Loss rate: 4.42%

-- Flow 2:

Average throughput: 29.73 Mbit/s

95th percentile per-packet one-way delay: 121.601 ms

Loss rate: 5.77%

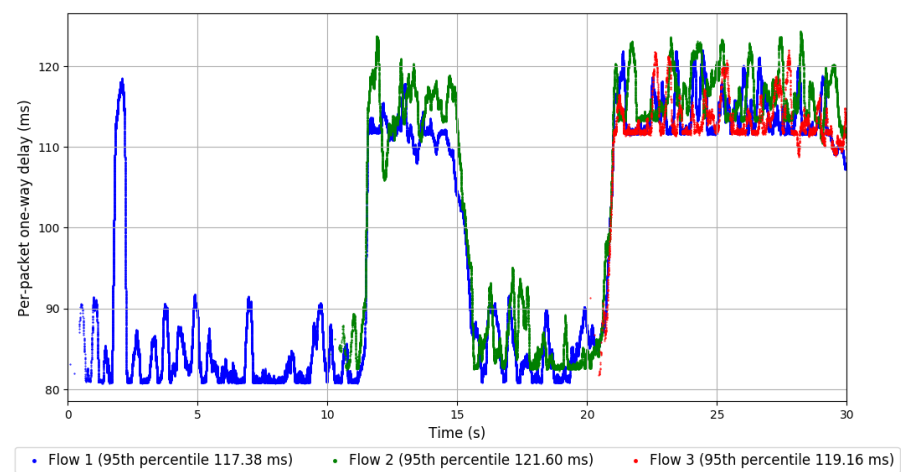
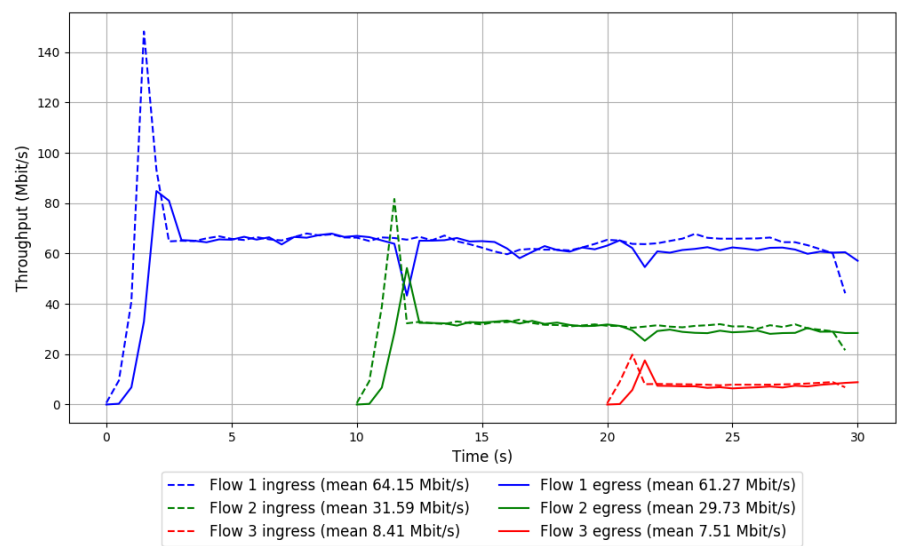
-- Flow 3:

Average throughput: 7.51 Mbit/s

95th percentile per-packet one-way delay: 119.157 ms

Loss rate: 10.51%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-07-03 19:51:40

End at: 2018-07-03 19:52:10

Local clock offset: -2.206 ms

Remote clock offset: 1.911 ms

Below is generated by plot.py at 2018-07-03 22:02:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.96 Mbit/s

95th percentile per-packet one-way delay: 110.427 ms

Loss rate: 2.72%

-- Flow 1:

Average throughput: 59.09 Mbit/s

95th percentile per-packet one-way delay: 108.925 ms

Loss rate: 2.81%

-- Flow 2:

Average throughput: 30.37 Mbit/s

95th percentile per-packet one-way delay: 113.663 ms

Loss rate: 2.59%

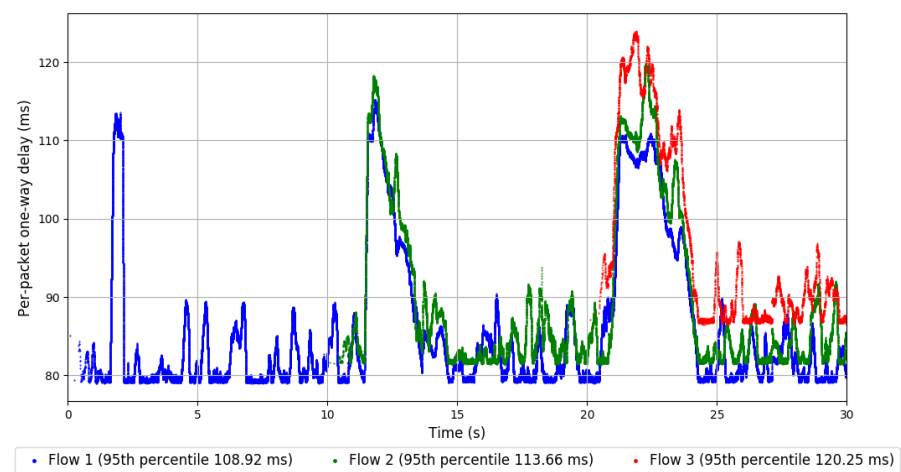
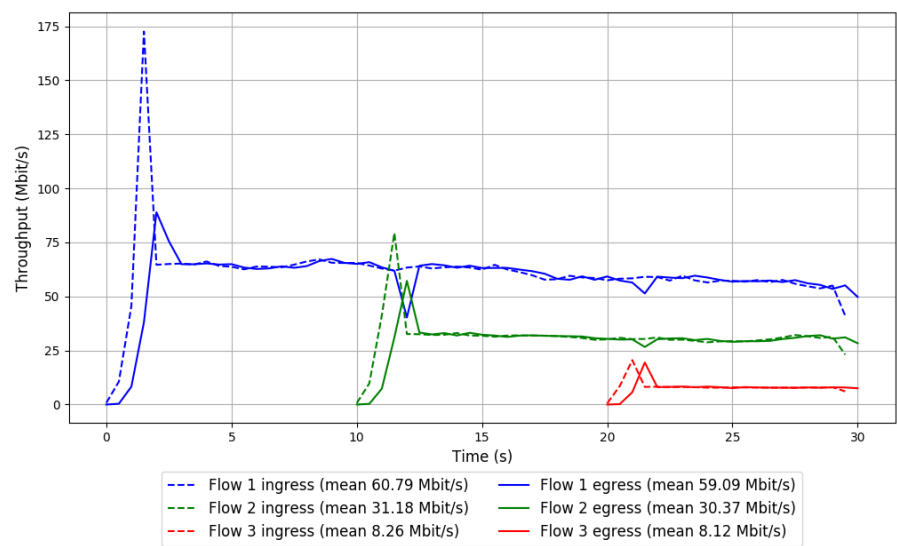
-- Flow 3:

Average throughput: 8.12 Mbit/s

95th percentile per-packet one-way delay: 120.247 ms

Loss rate: 1.68%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-03 20:12:41

End at: 2018-07-03 20:13:11

Local clock offset: -2.295 ms

Remote clock offset: 9.344 ms

Below is generated by plot.py at 2018-07-03 22:02:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.17 Mbit/s

95th percentile per-packet one-way delay: 122.161 ms

Loss rate: 4.19%

-- Flow 1:

Average throughput: 60.22 Mbit/s

95th percentile per-packet one-way delay: 120.924 ms

Loss rate: 3.91%

-- Flow 2:

Average throughput: 30.86 Mbit/s

95th percentile per-packet one-way delay: 123.571 ms

Loss rate: 4.62%

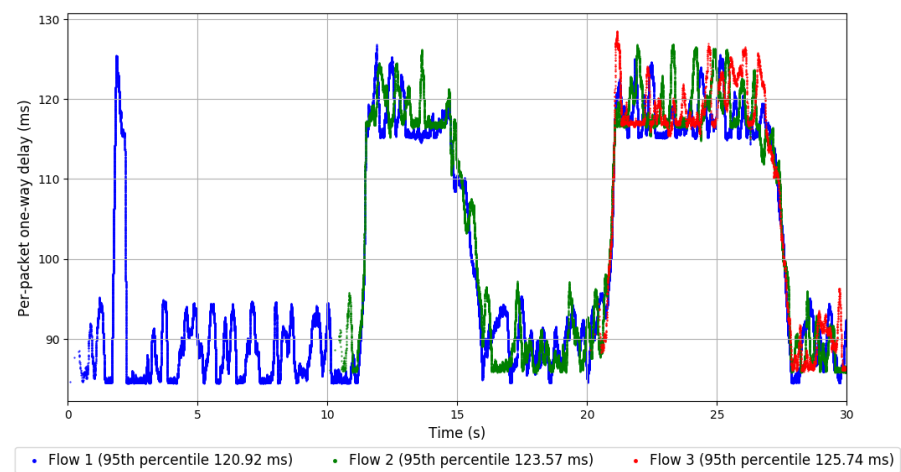
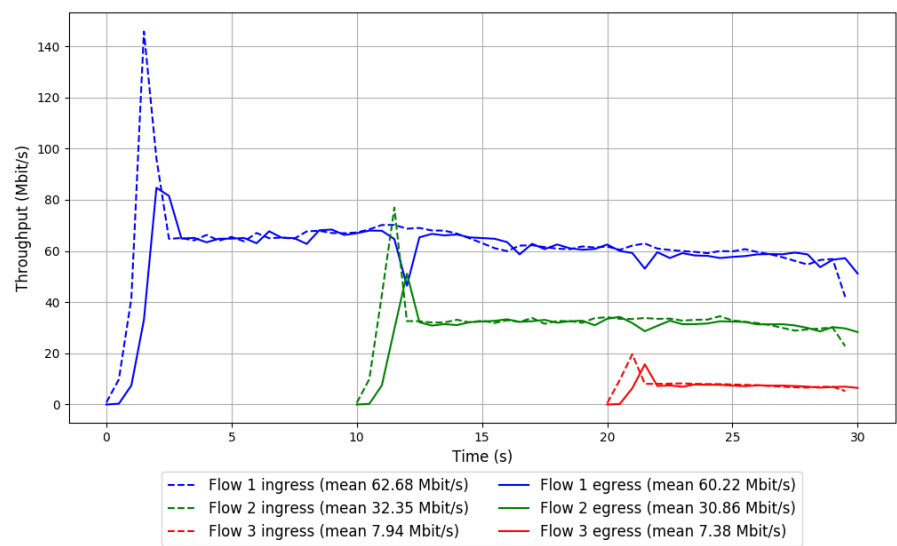
-- Flow 3:

Average throughput: 7.38 Mbit/s

95th percentile per-packet one-way delay: 125.742 ms

Loss rate: 7.12%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-03 20:33:40

End at: 2018-07-03 20:34:10

Local clock offset: -2.731 ms

Remote clock offset: 8.925 ms

Below is generated by plot.py at 2018-07-03 22:02:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.31 Mbit/s

95th percentile per-packet one-way delay: 125.099 ms

Loss rate: 4.43%

-- Flow 1:

Average throughput: 59.39 Mbit/s

95th percentile per-packet one-way delay: 120.575 ms

Loss rate: 4.15%

-- Flow 2:

Average throughput: 30.66 Mbit/s

95th percentile per-packet one-way delay: 128.892 ms

Loss rate: 4.65%

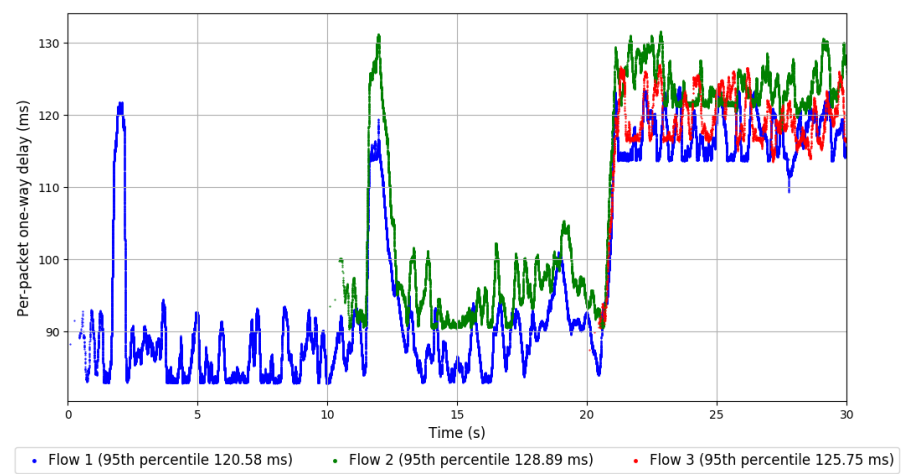
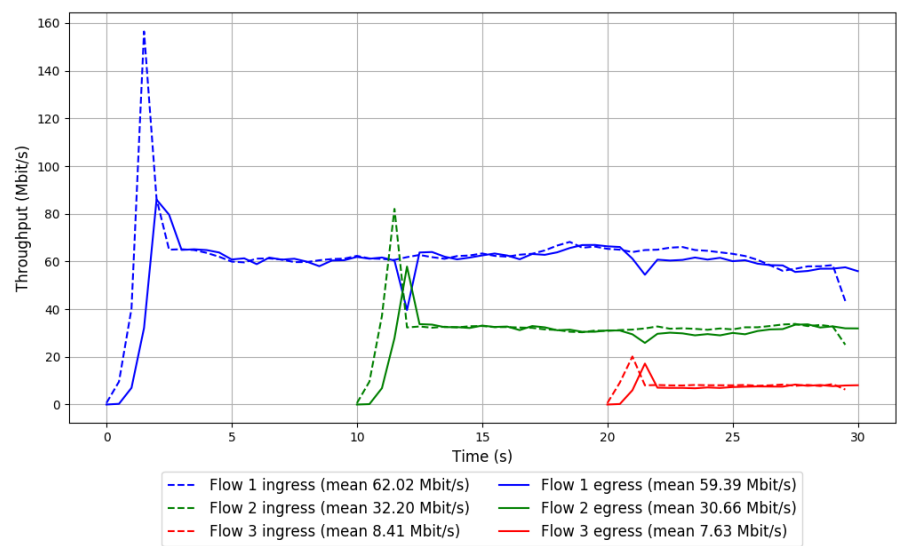
-- Flow 3:

Average throughput: 7.63 Mbit/s

95th percentile per-packet one-way delay: 125.754 ms

Loss rate: 8.99%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-07-03 20:54:48

End at: 2018-07-03 20:55:18

Local clock offset: -3.158 ms

Remote clock offset: 6.938 ms

Below is generated by plot.py at 2018-07-03 22:03:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.35 Mbit/s

95th percentile per-packet one-way delay: 114.349 ms

Loss rate: 3.62%

-- Flow 1:

Average throughput: 58.18 Mbit/s

95th percentile per-packet one-way delay: 113.225 ms

Loss rate: 3.46%

-- Flow 2:

Average throughput: 30.95 Mbit/s

95th percentile per-packet one-way delay: 116.707 ms

Loss rate: 3.75%

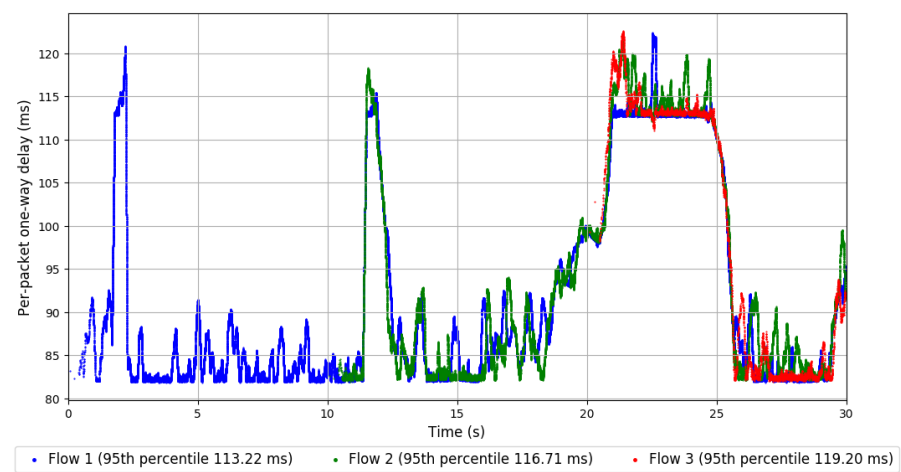
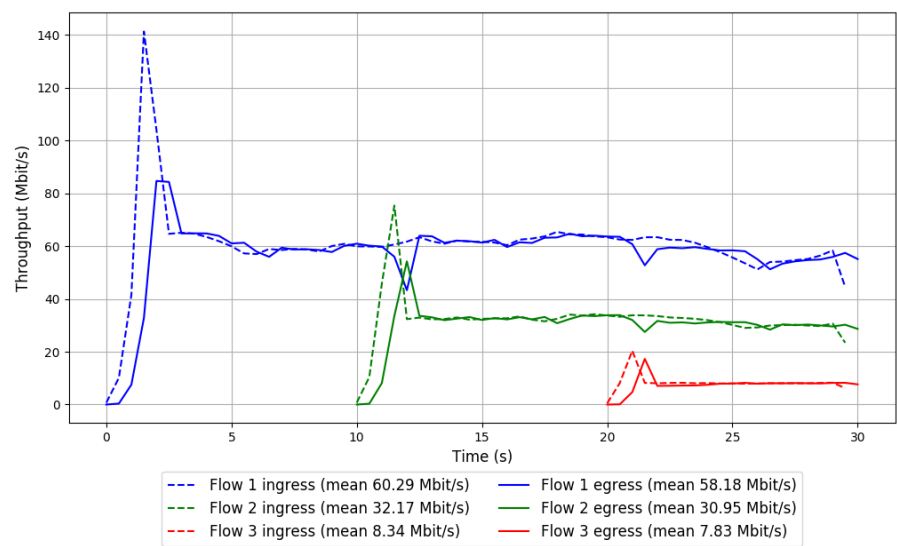
-- Flow 3:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 119.201 ms

Loss rate: 6.22%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-03 21:15:59

End at: 2018-07-03 21:16:29

Local clock offset: -2.656 ms

Remote clock offset: 8.95 ms

Below is generated by plot.py at 2018-07-03 22:03:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.73 Mbit/s

95th percentile per-packet one-way delay: 122.992 ms

Loss rate: 2.60%

-- Flow 1:

Average throughput: 80.14 Mbit/s

95th percentile per-packet one-way delay: 123.001 ms

Loss rate: 2.52%

-- Flow 2:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 115.818 ms

Loss rate: 3.48%

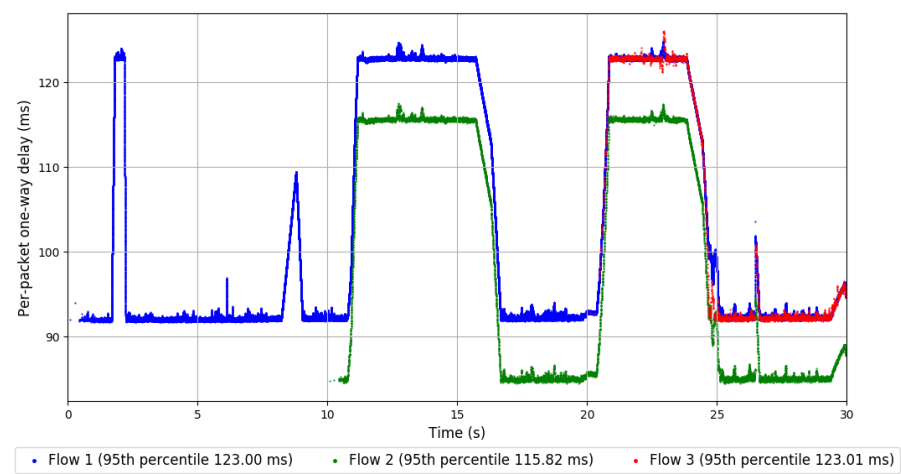
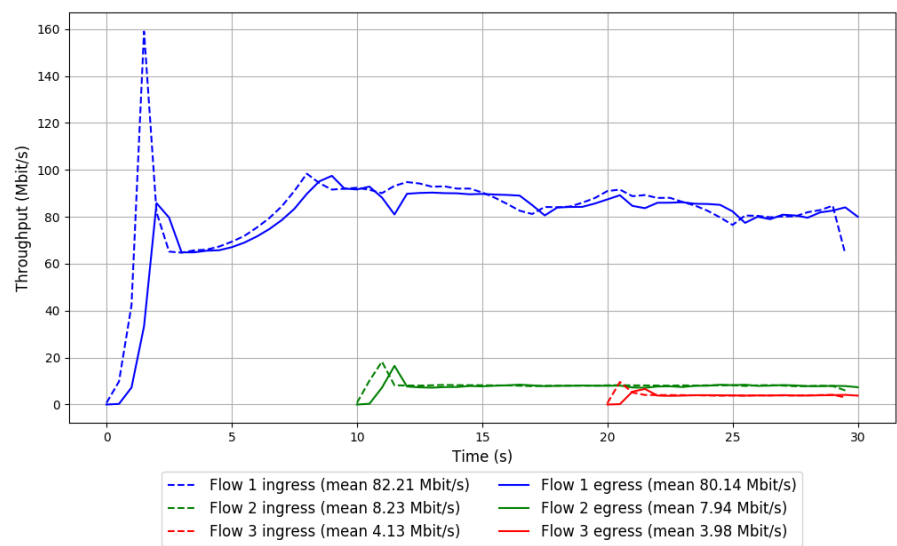
-- Flow 3:

Average throughput: 3.98 Mbit/s

95th percentile per-packet one-way delay: 123.006 ms

Loss rate: 3.59%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-07-03 21:37:12

End at: 2018-07-03 21:37:42

Local clock offset: -1.952 ms

Remote clock offset: 3.046 ms

Below is generated by plot.py at 2018-07-03 22:03:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.08 Mbit/s

95th percentile per-packet one-way delay: 117.208 ms

Loss rate: 2.87%

-- Flow 1:

Average throughput: 79.15 Mbit/s

95th percentile per-packet one-way delay: 117.225 ms

Loss rate: 2.72%

-- Flow 2:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 113.477 ms

Loss rate: 3.72%

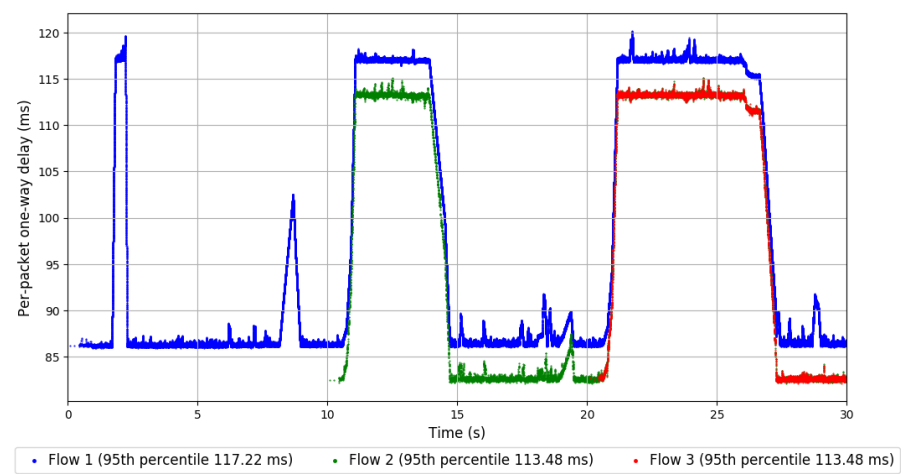
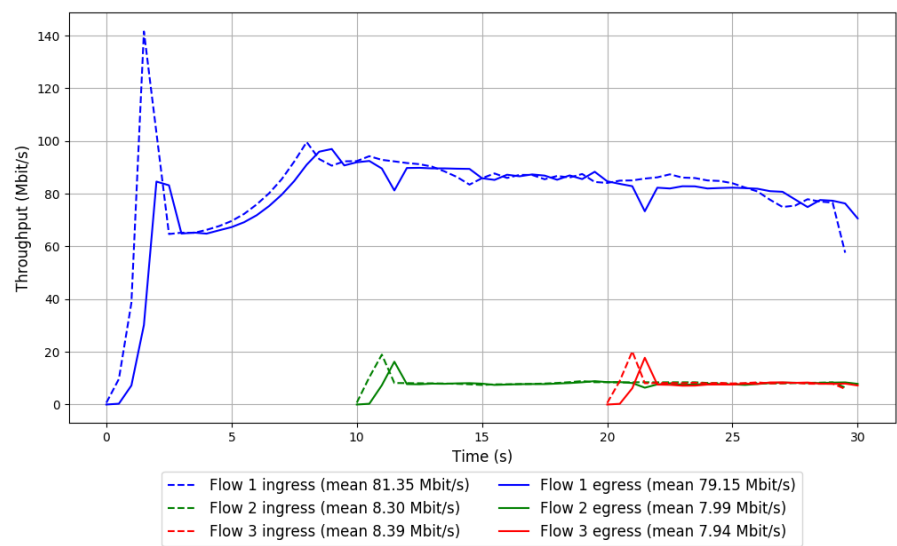
-- Flow 3:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 113.478 ms

Loss rate: 5.38%

Run 10: Report of PCC-Allegro — Data Link

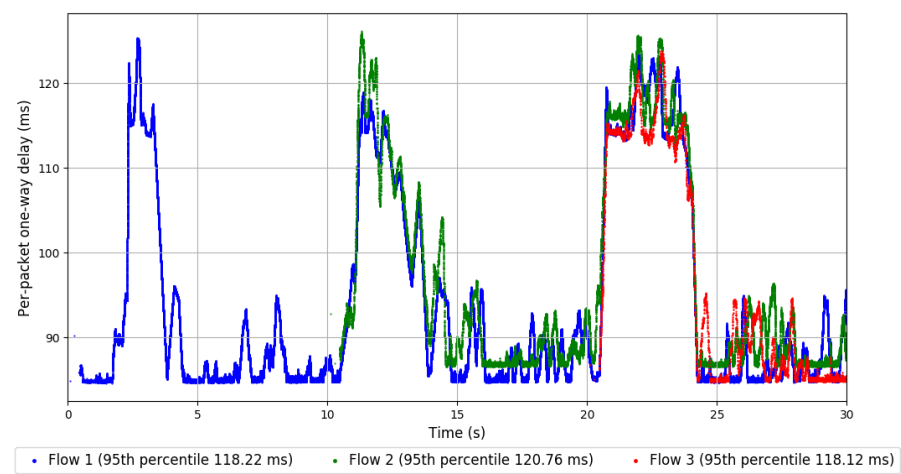
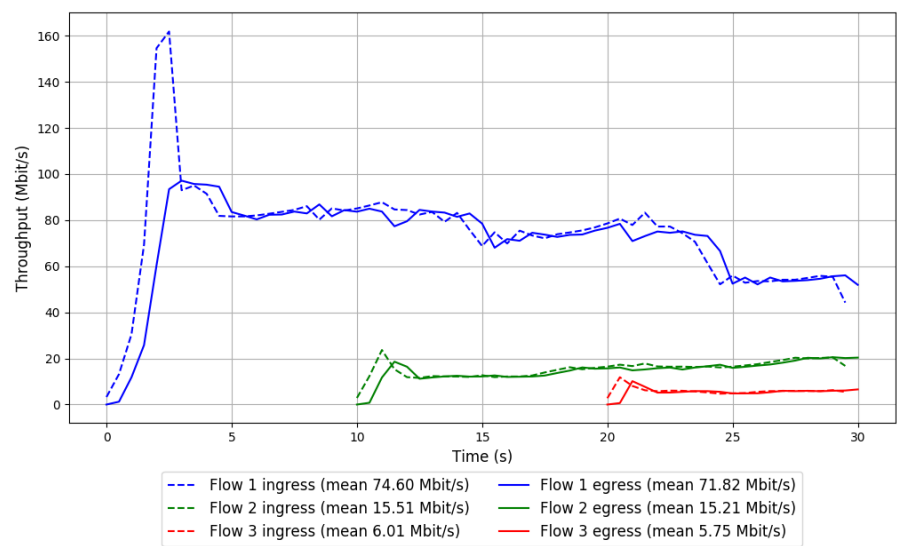


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-03 18:24:38
End at: 2018-07-03 18:25:08
Local clock offset: -1.983 ms
Remote clock offset: 14.264 ms

# Below is generated by plot.py at 2018-07-03 22:04:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.83 Mbit/s
95th percentile per-packet one-way delay: 118.625 ms
Loss rate: 3.53%
-- Flow 1:
Average throughput: 71.82 Mbit/s
95th percentile per-packet one-way delay: 118.215 ms
Loss rate: 3.72%
-- Flow 2:
Average throughput: 15.21 Mbit/s
95th percentile per-packet one-way delay: 120.764 ms
Loss rate: 1.98%
-- Flow 3:
Average throughput: 5.75 Mbit/s
95th percentile per-packet one-way delay: 118.122 ms
Loss rate: 4.34%
```


Run 1: Report of PCC-Expr — Data Link

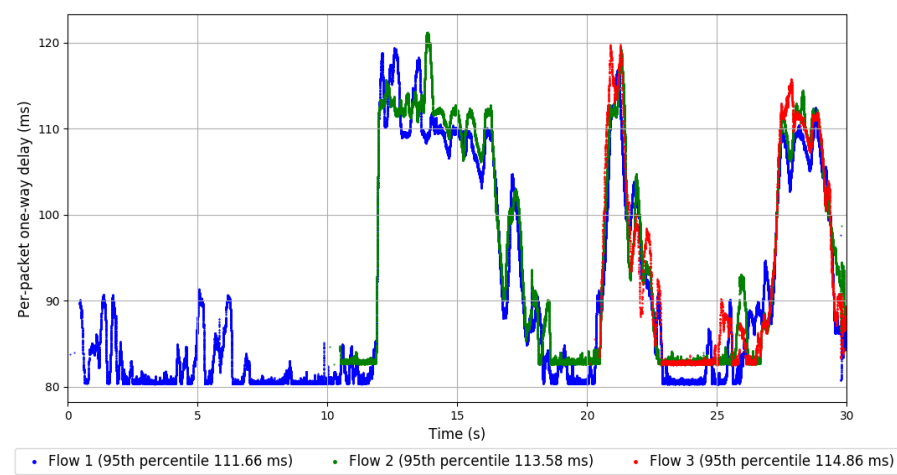
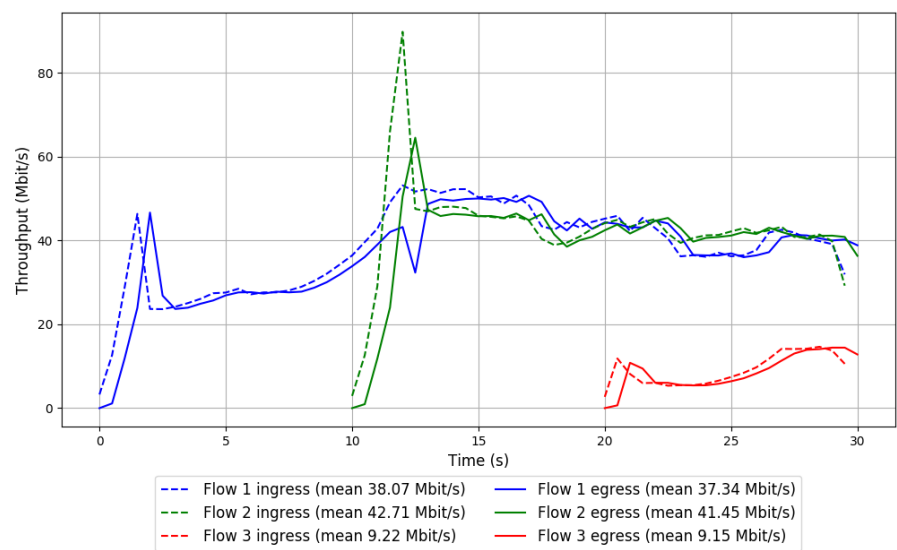


```
Run 2: Statistics of PCC-Expr

Start at: 2018-07-03 18:45:48
End at: 2018-07-03 18:46:18
Local clock offset: -1.874 ms
Remote clock offset: 8.872 ms

# Below is generated by plot.py at 2018-07-03 22:04:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.93 Mbit/s
95th percentile per-packet one-way delay: 113.198 ms
Loss rate: 2.29%
-- Flow 1:
Average throughput: 37.34 Mbit/s
95th percentile per-packet one-way delay: 111.662 ms
Loss rate: 1.91%
-- Flow 2:
Average throughput: 41.45 Mbit/s
95th percentile per-packet one-way delay: 113.584 ms
Loss rate: 2.97%
-- Flow 3:
Average throughput: 9.15 Mbit/s
95th percentile per-packet one-way delay: 114.863 ms
Loss rate: 0.84%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-07-03 19:06:55

End at: 2018-07-03 19:07:25

Local clock offset: -1.989 ms

Remote clock offset: 4.433 ms

Below is generated by plot.py at 2018-07-03 22:04:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.09 Mbit/s

95th percentile per-packet one-way delay: 114.822 ms

Loss rate: 3.83%

-- Flow 1:

Average throughput: 81.32 Mbit/s

95th percentile per-packet one-way delay: 114.613 ms

Loss rate: 3.72%

-- Flow 2:

Average throughput: 5.89 Mbit/s

95th percentile per-packet one-way delay: 117.728 ms

Loss rate: 5.14%

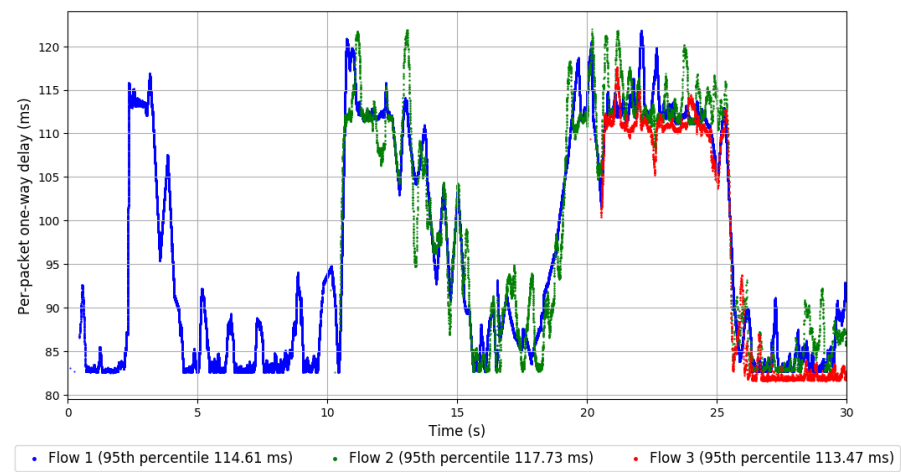
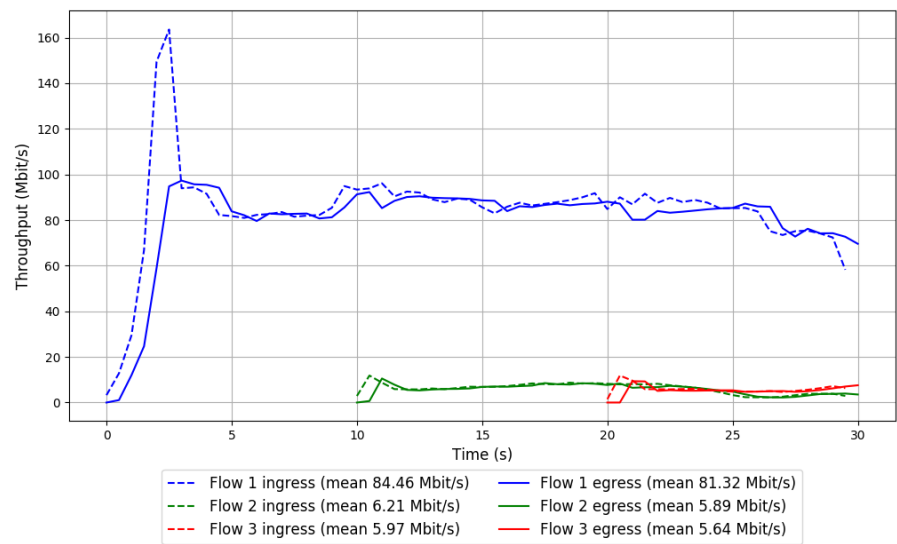
-- Flow 3:

Average throughput: 5.64 Mbit/s

95th percentile per-packet one-way delay: 113.468 ms

Loss rate: 5.69%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-07-03 19:28:04

End at: 2018-07-03 19:28:34

Local clock offset: -2.251 ms

Remote clock offset: 6.151 ms

Below is generated by plot.py at 2018-07-03 22:04:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.44 Mbit/s

95th percentile per-packet one-way delay: 123.876 ms

Loss rate: 2.87%

-- Flow 1:

Average throughput: 75.49 Mbit/s

95th percentile per-packet one-way delay: 123.814 ms

Loss rate: 3.08%

-- Flow 2:

Average throughput: 11.35 Mbit/s

95th percentile per-packet one-way delay: 123.871 ms

Loss rate: 1.09%

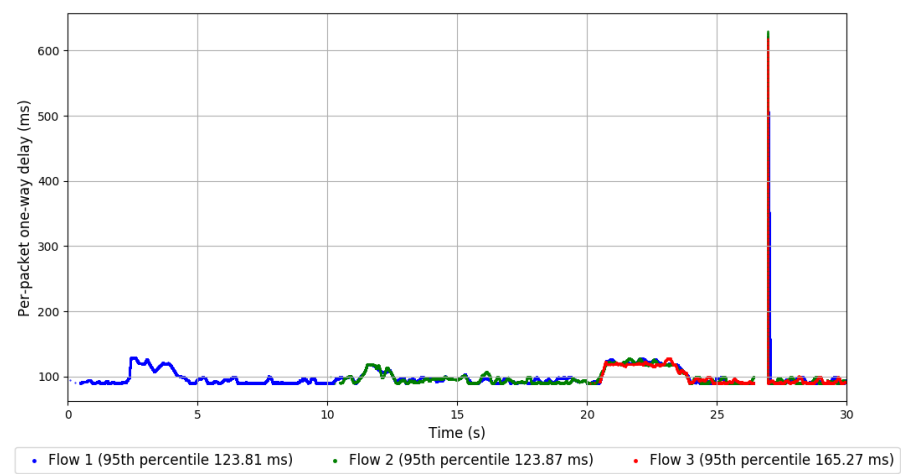
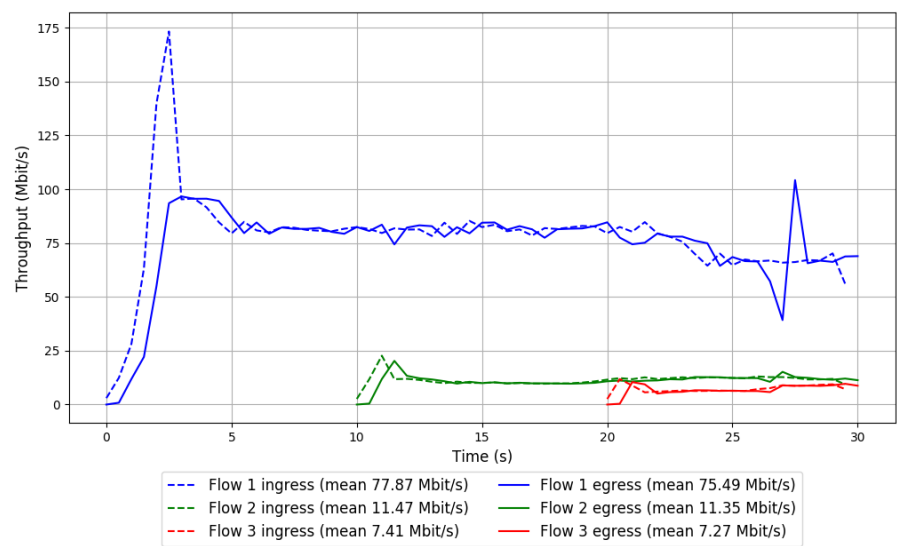
-- Flow 3:

Average throughput: 7.27 Mbit/s

95th percentile per-packet one-way delay: 165.266 ms

Loss rate: 1.90%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-07-03 19:49:08

End at: 2018-07-03 19:49:38

Local clock offset: -2.21 ms

Remote clock offset: 6.108 ms

Below is generated by plot.py at 2018-07-03 22:04:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.30 Mbit/s

95th percentile per-packet one-way delay: 123.829 ms

Loss rate: 3.85%

-- Flow 1:

Average throughput: 76.88 Mbit/s

95th percentile per-packet one-way delay: 124.012 ms

Loss rate: 3.84%

-- Flow 2:

Average throughput: 6.89 Mbit/s

95th percentile per-packet one-way delay: 122.114 ms

Loss rate: 3.51%

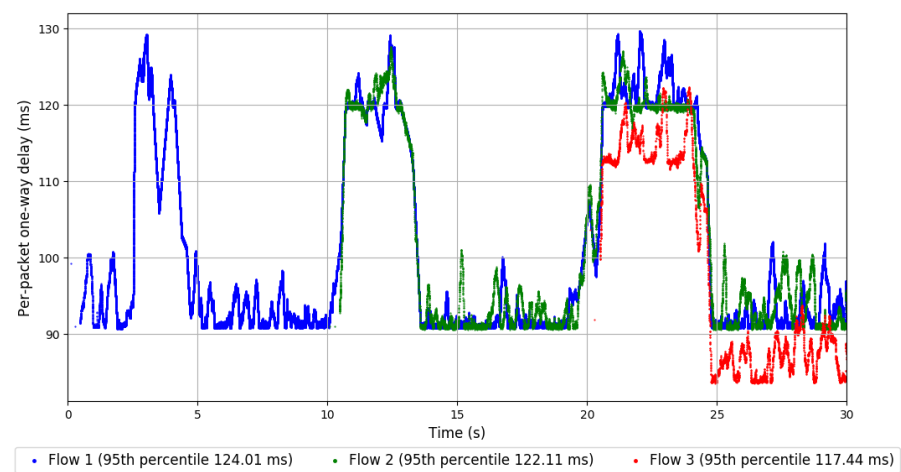
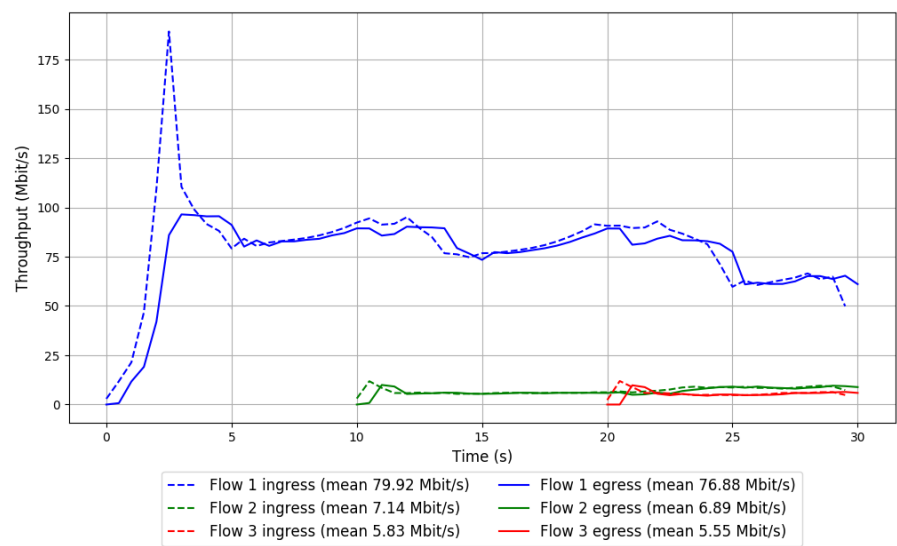
-- Flow 3:

Average throughput: 5.55 Mbit/s

95th percentile per-packet one-way delay: 117.436 ms

Loss rate: 5.10%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-07-03 20:10:13

End at: 2018-07-03 20:10:43

Local clock offset: -2.24 ms

Remote clock offset: 7.945 ms

Below is generated by plot.py at 2018-07-03 22:04:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.76 Mbit/s

95th percentile per-packet one-way delay: 95.017 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 22.48 Mbit/s

95th percentile per-packet one-way delay: 94.029 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 17.17 Mbit/s

95th percentile per-packet one-way delay: 97.485 ms

Loss rate: 0.20%

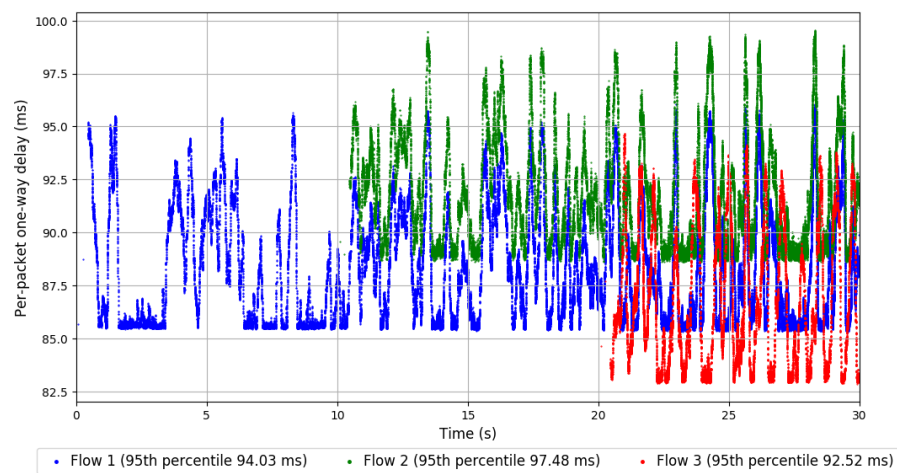
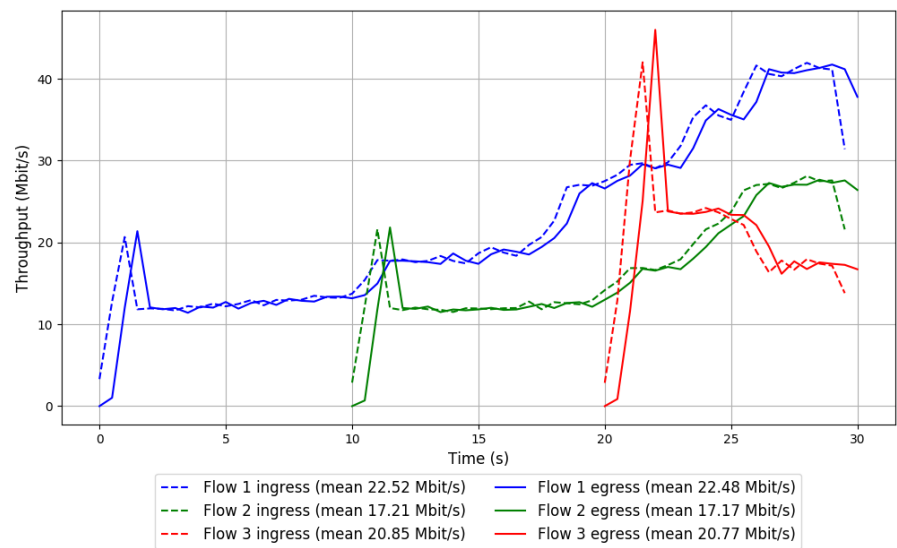
-- Flow 3:

Average throughput: 20.77 Mbit/s

95th percentile per-packet one-way delay: 92.522 ms

Loss rate: 0.36%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-07-03 20:31:11

End at: 2018-07-03 20:31:41

Local clock offset: -2.703 ms

Remote clock offset: 6.151 ms

Below is generated by plot.py at 2018-07-03 22:05:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.06 Mbit/s

95th percentile per-packet one-way delay: 117.574 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 32.18 Mbit/s

95th percentile per-packet one-way delay: 120.039 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 36.97 Mbit/s

95th percentile per-packet one-way delay: 112.909 ms

Loss rate: 1.24%

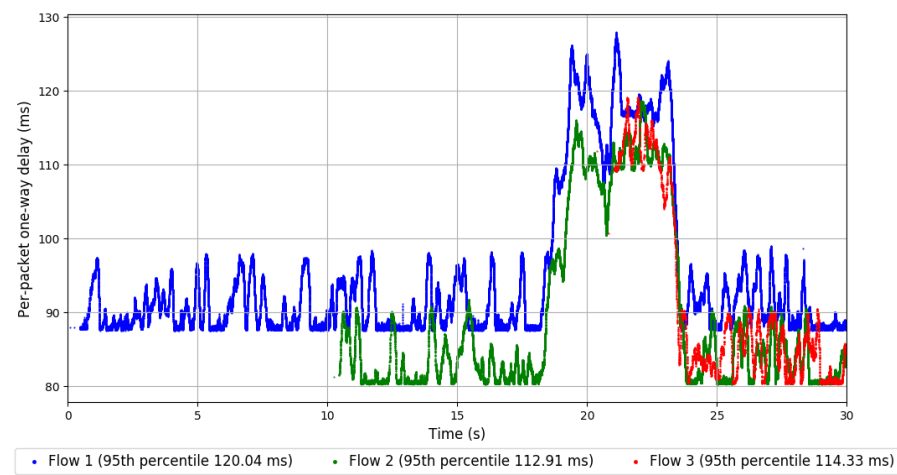
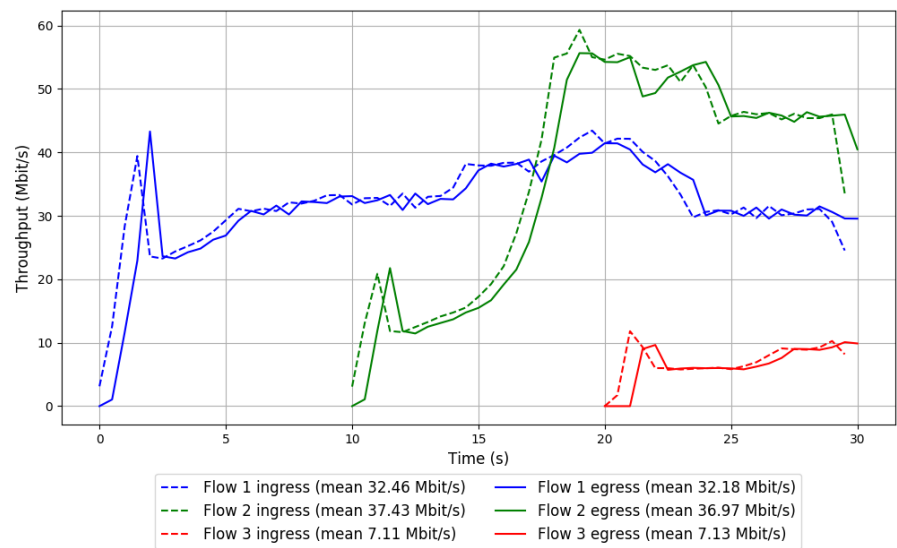
-- Flow 3:

Average throughput: 7.13 Mbit/s

95th percentile per-packet one-way delay: 114.332 ms

Loss rate: 2.48%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-07-03 20:52:18

End at: 2018-07-03 20:52:48

Local clock offset: -3.042 ms

Remote clock offset: 5.913 ms

Below is generated by plot.py at 2018-07-03 22:05:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.41 Mbit/s

95th percentile per-packet one-way delay: 113.477 ms

Loss rate: 3.48%

-- Flow 1:

Average throughput: 16.91 Mbit/s

95th percentile per-packet one-way delay: 115.589 ms

Loss rate: 2.94%

-- Flow 2:

Average throughput: 53.66 Mbit/s

95th percentile per-packet one-way delay: 111.986 ms

Loss rate: 3.46%

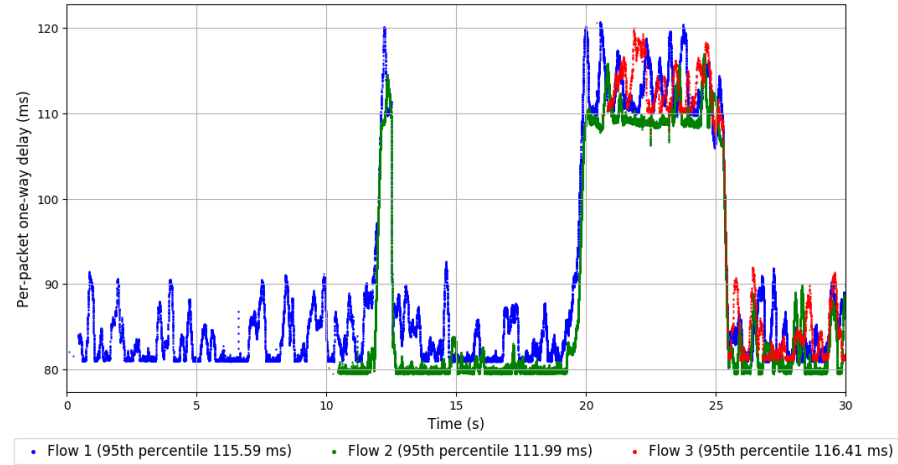
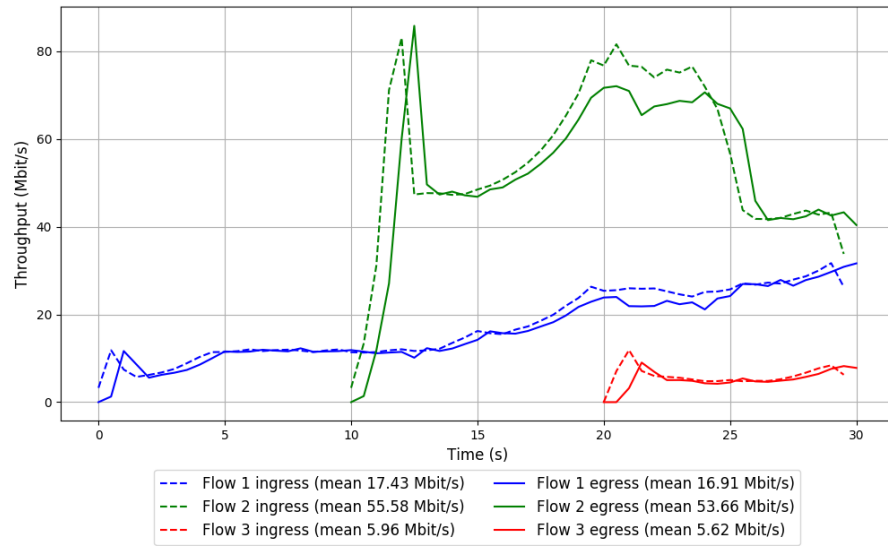
-- Flow 3:

Average throughput: 5.62 Mbit/s

95th percentile per-packet one-way delay: 116.411 ms

Loss rate: 8.61%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-07-03 21:13:27

End at: 2018-07-03 21:13:57

Local clock offset: -2.946 ms

Remote clock offset: 4.53 ms

Below is generated by plot.py at 2018-07-03 22:06:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.37 Mbit/s

95th percentile per-packet one-way delay: 110.163 ms

Loss rate: 4.33%

-- Flow 1:

Average throughput: 72.17 Mbit/s

95th percentile per-packet one-way delay: 109.095 ms

Loss rate: 4.33%

-- Flow 2:

Average throughput: 16.31 Mbit/s

95th percentile per-packet one-way delay: 110.807 ms

Loss rate: 3.94%

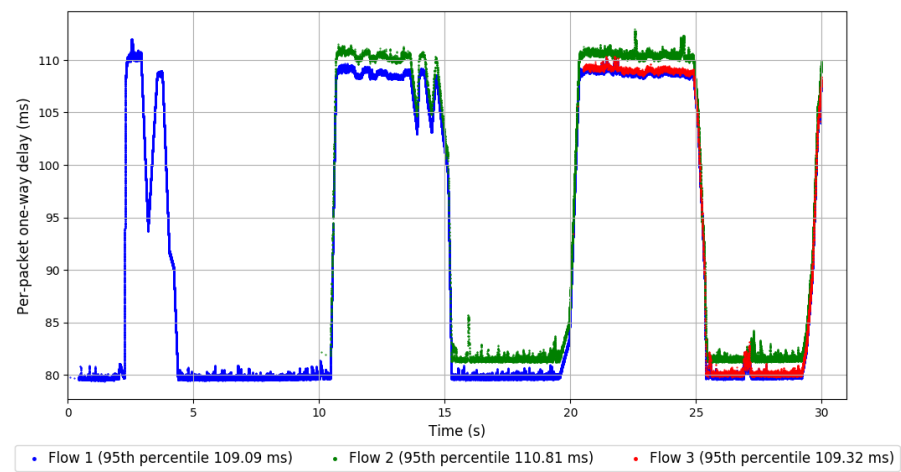
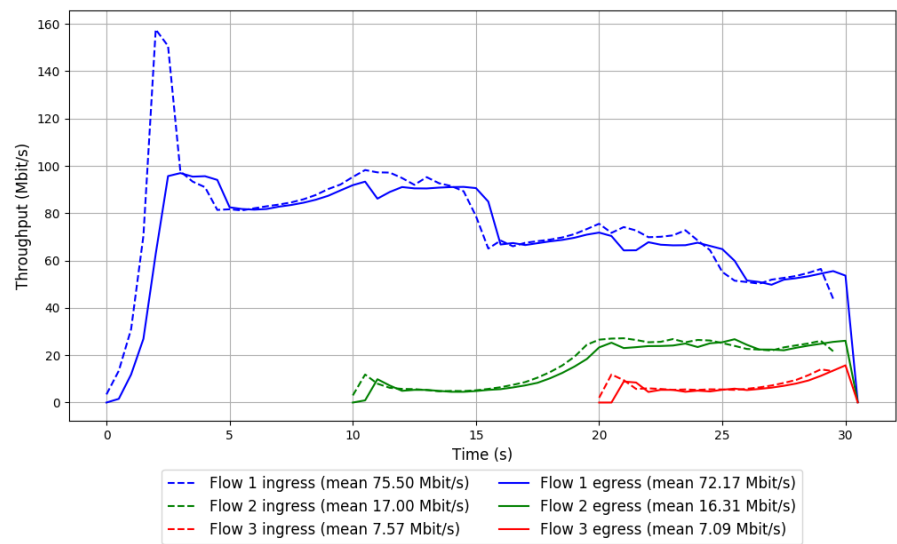
-- Flow 3:

Average throughput: 7.09 Mbit/s

95th percentile per-packet one-way delay: 109.320 ms

Loss rate: 6.20%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-03 21:34:38

End at: 2018-07-03 21:35:08

Local clock offset: -1.938 ms

Remote clock offset: 2.082 ms

Below is generated by plot.py at 2018-07-03 22:06:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.82 Mbit/s

95th percentile per-packet one-way delay: 114.606 ms

Loss rate: 4.86%

-- Flow 1:

Average throughput: 65.98 Mbit/s

95th percentile per-packet one-way delay: 114.672 ms

Loss rate: 5.12%

-- Flow 2:

Average throughput: 24.04 Mbit/s

95th percentile per-packet one-way delay: 109.385 ms

Loss rate: 3.74%

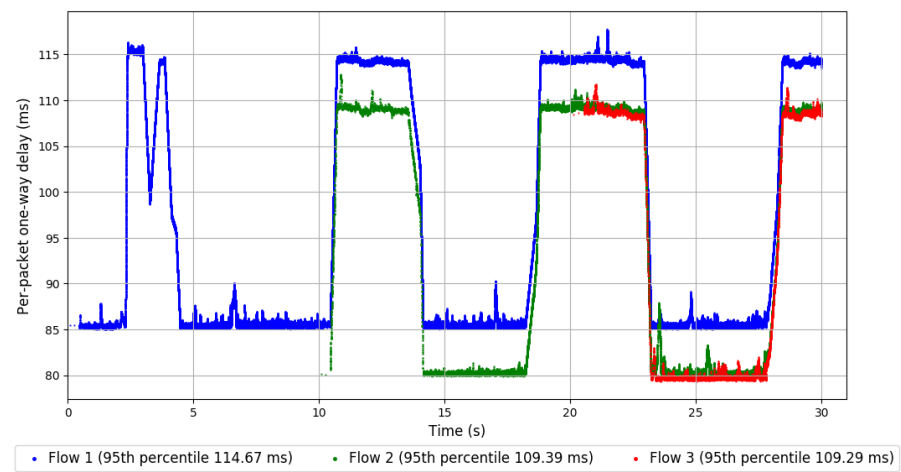
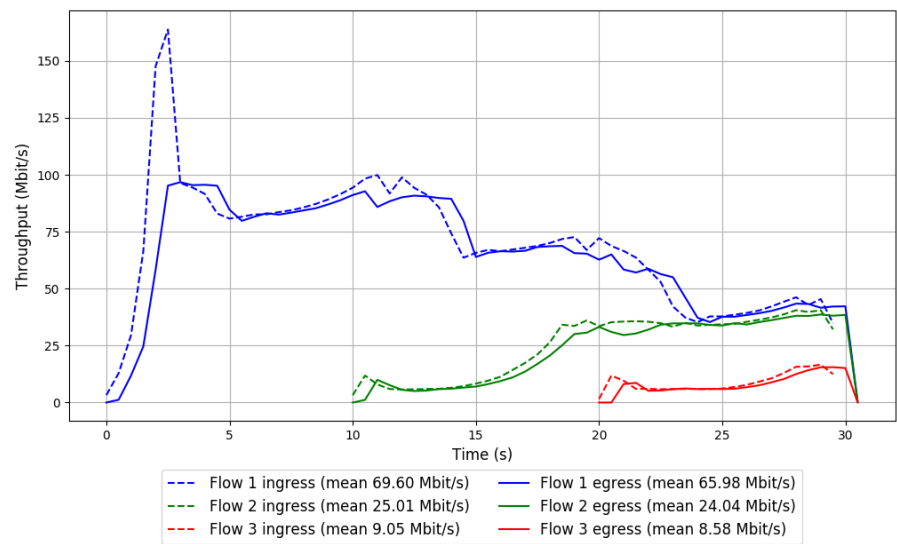
-- Flow 3:

Average throughput: 8.58 Mbit/s

95th percentile per-packet one-way delay: 109.289 ms

Loss rate: 5.10%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-07-03 18:25:58

End at: 2018-07-03 18:26:28

Local clock offset: -1.949 ms

Remote clock offset: 9.791 ms

Below is generated by plot.py at 2018-07-03 22:06:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.38 Mbit/s

95th percentile per-packet one-way delay: 105.318 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 39.53 Mbit/s

95th percentile per-packet one-way delay: 104.922 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 23.82 Mbit/s

95th percentile per-packet one-way delay: 102.278 ms

Loss rate: 0.80%

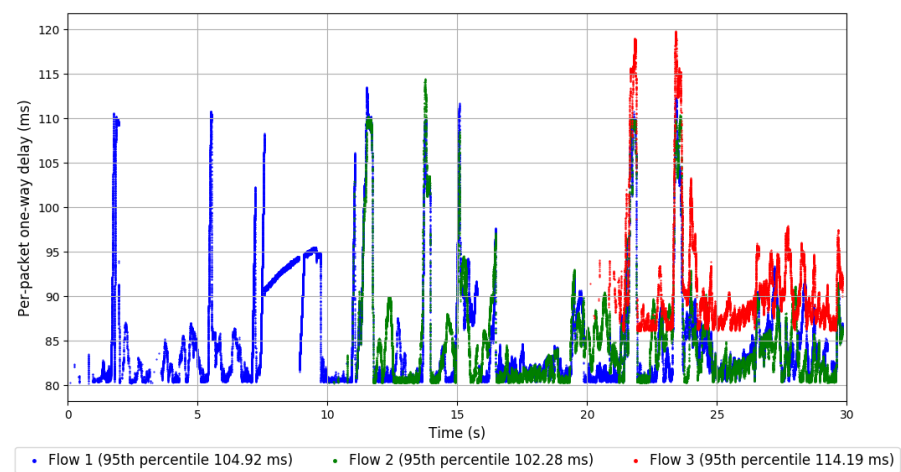
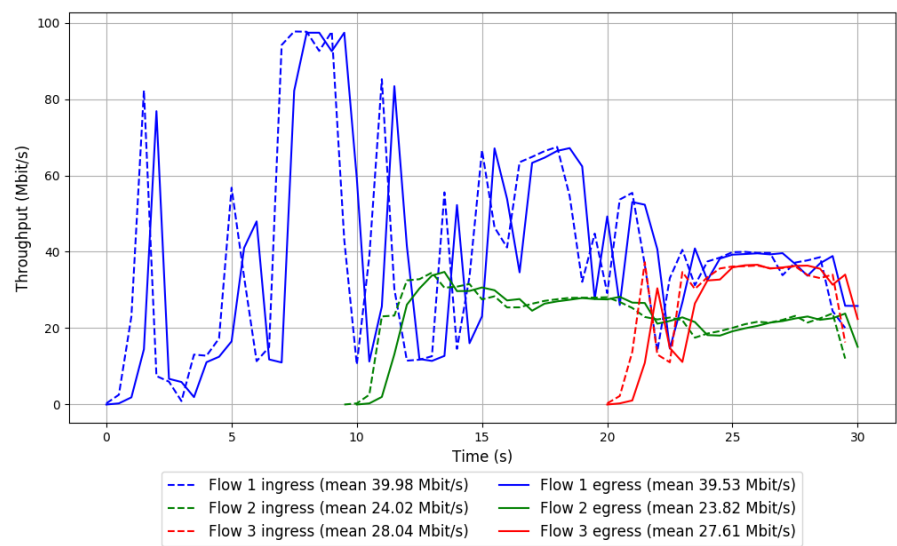
-- Flow 3:

Average throughput: 27.61 Mbit/s

95th percentile per-packet one-way delay: 114.190 ms

Loss rate: 1.55%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-07-03 18:47:05

End at: 2018-07-03 18:47:35

Local clock offset: -1.895 ms

Remote clock offset: 12.75 ms

Below is generated by plot.py at 2018-07-03 22:06:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.49 Mbit/s

95th percentile per-packet one-way delay: 107.448 ms

Loss rate: 1.83%

-- Flow 1:

Average throughput: 22.79 Mbit/s

95th percentile per-packet one-way delay: 108.627 ms

Loss rate: 1.67%

-- Flow 2:

Average throughput: 32.26 Mbit/s

95th percentile per-packet one-way delay: 109.652 ms

Loss rate: 2.31%

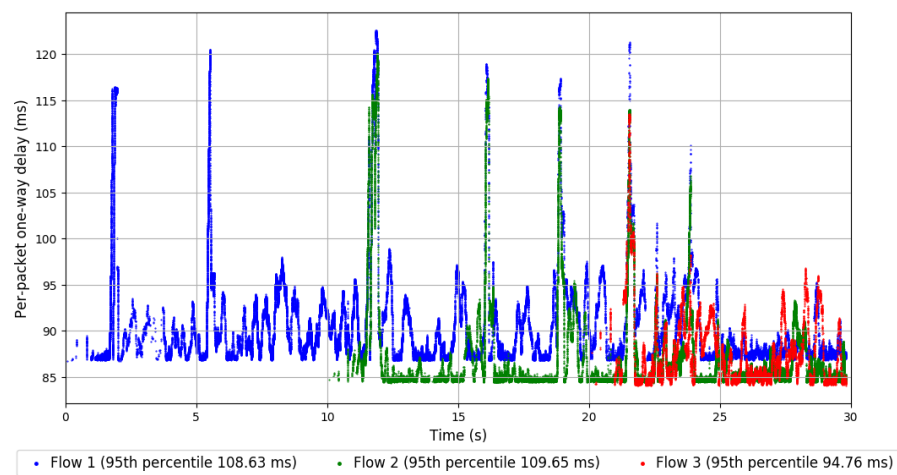
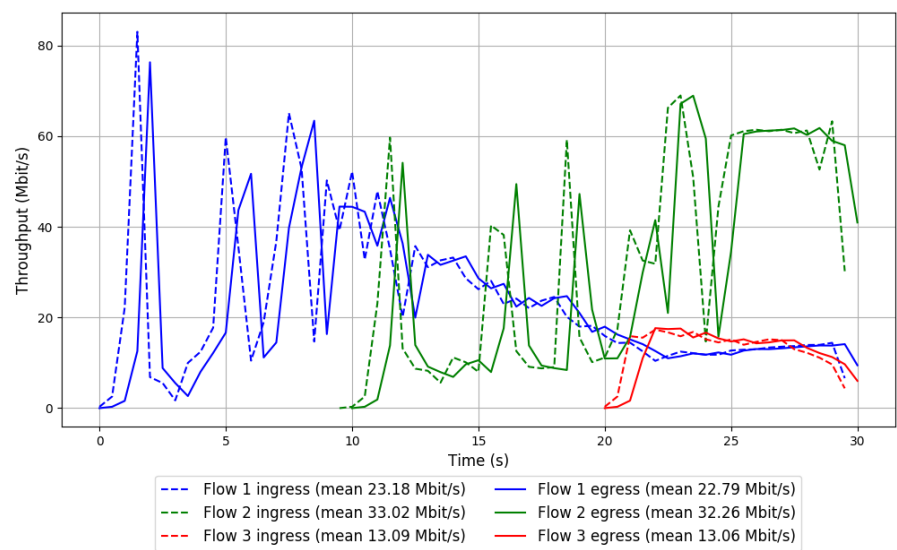
-- Flow 3:

Average throughput: 13.06 Mbit/s

95th percentile per-packet one-way delay: 94.759 ms

Loss rate: 0.28%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-07-03 19:08:14

End at: 2018-07-03 19:08:44

Local clock offset: -1.908 ms

Remote clock offset: 4.234 ms

Below is generated by plot.py at 2018-07-03 22:06:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.91 Mbit/s

95th percentile per-packet one-way delay: 107.145 ms

Loss rate: 1.75%

-- Flow 1:

Average throughput: 25.72 Mbit/s

95th percentile per-packet one-way delay: 104.140 ms

Loss rate: 1.66%

-- Flow 2:

Average throughput: 31.07 Mbit/s

95th percentile per-packet one-way delay: 110.296 ms

Loss rate: 2.06%

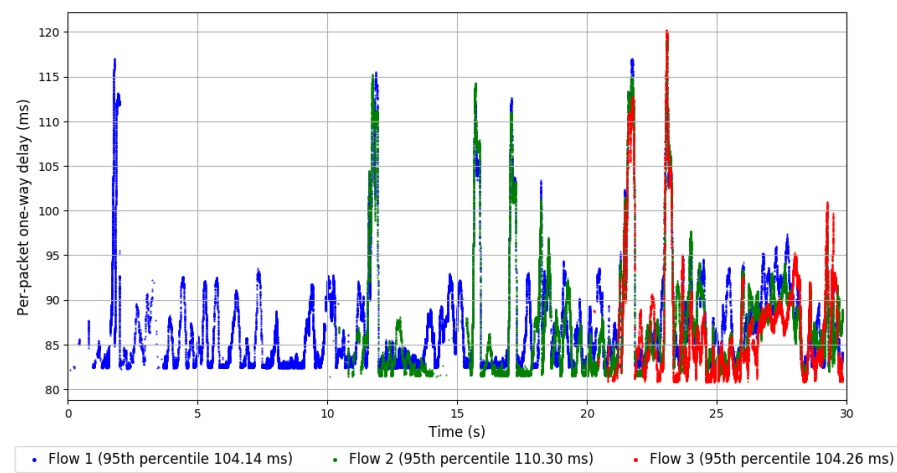
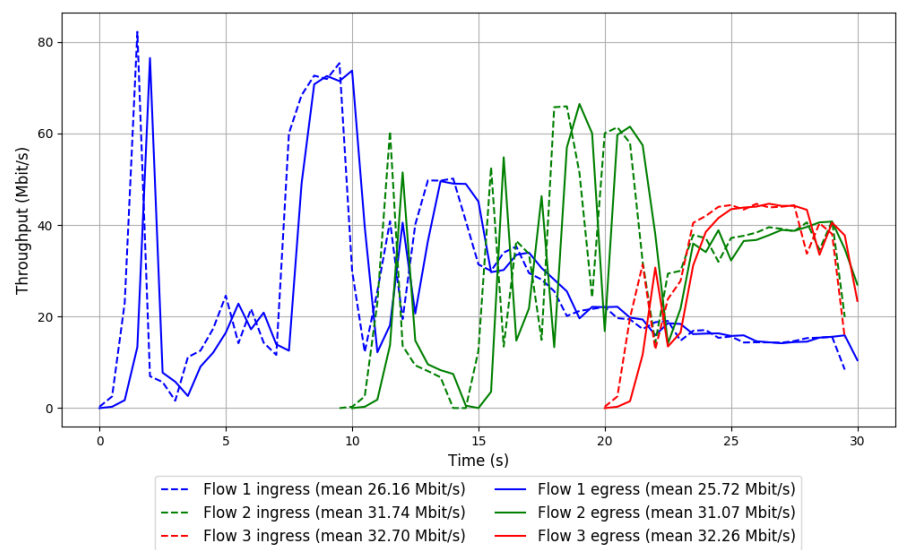
-- Flow 3:

Average throughput: 32.26 Mbit/s

95th percentile per-packet one-way delay: 104.264 ms

Loss rate: 1.36%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-07-03 19:29:23

End at: 2018-07-03 19:29:53

Local clock offset: -2.249 ms

Remote clock offset: 2.827 ms

Below is generated by plot.py at 2018-07-03 22:06:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.15 Mbit/s

95th percentile per-packet one-way delay: 99.550 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 24.18 Mbit/s

95th percentile per-packet one-way delay: 99.970 ms

Loss rate: 1.48%

-- Flow 2:

Average throughput: 34.10 Mbit/s

95th percentile per-packet one-way delay: 100.091 ms

Loss rate: 1.48%

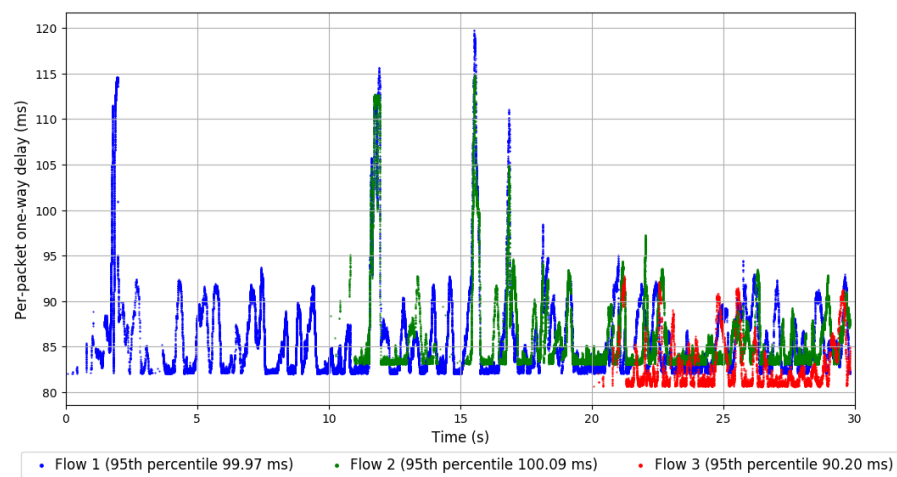
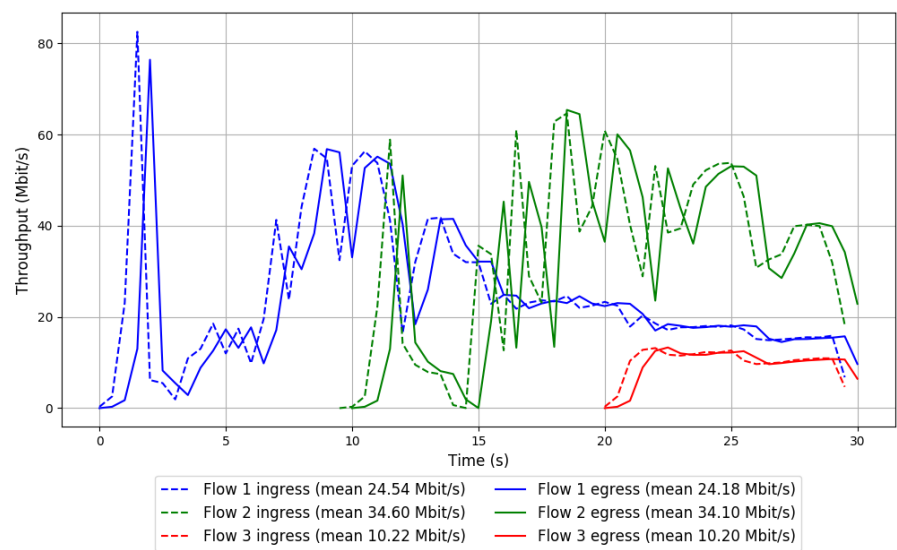
-- Flow 3:

Average throughput: 10.20 Mbit/s

95th percentile per-packet one-way delay: 90.199 ms

Loss rate: 0.23%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-07-03 19:50:27

End at: 2018-07-03 19:50:57

Local clock offset: -2.2 ms

Remote clock offset: 8.165 ms

Below is generated by plot.py at 2018-07-03 22:06:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.67 Mbit/s

95th percentile per-packet one-way delay: 99.859 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 9.25 Mbit/s

95th percentile per-packet one-way delay: 95.132 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 38.68 Mbit/s

95th percentile per-packet one-way delay: 100.824 ms

Loss rate: 0.44%

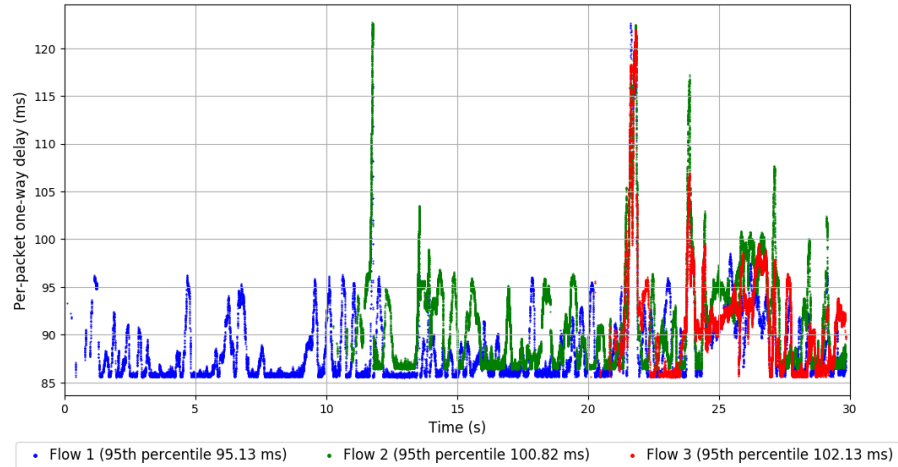
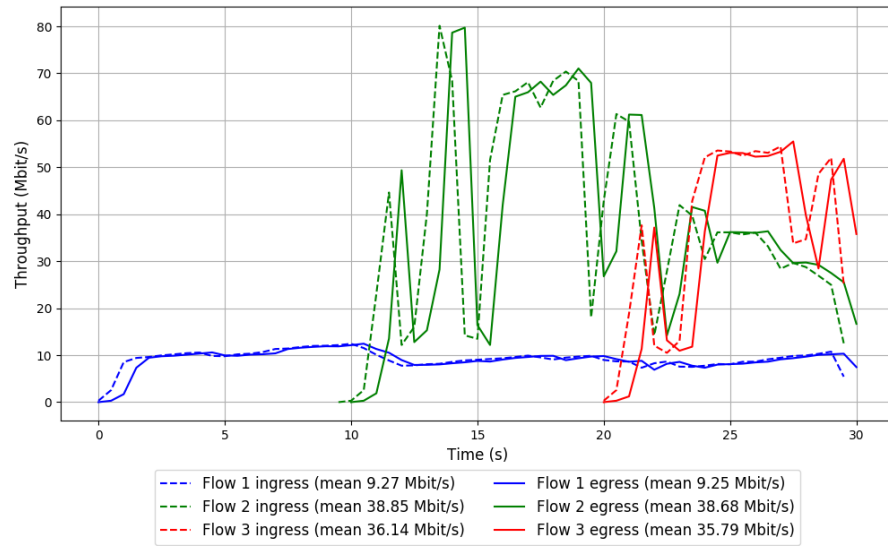
-- Flow 3:

Average throughput: 35.79 Mbit/s

95th percentile per-packet one-way delay: 102.134 ms

Loss rate: 0.95%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-03 20:11:28

End at: 2018-07-03 20:11:58

Local clock offset: -2.23 ms

Remote clock offset: 5.235 ms

Below is generated by plot.py at 2018-07-03 22:06:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.83 Mbit/s

95th percentile per-packet one-way delay: 97.171 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 29.34 Mbit/s

95th percentile per-packet one-way delay: 89.706 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 5.59 Mbit/s

95th percentile per-packet one-way delay: 89.876 ms

Loss rate: 0.31%

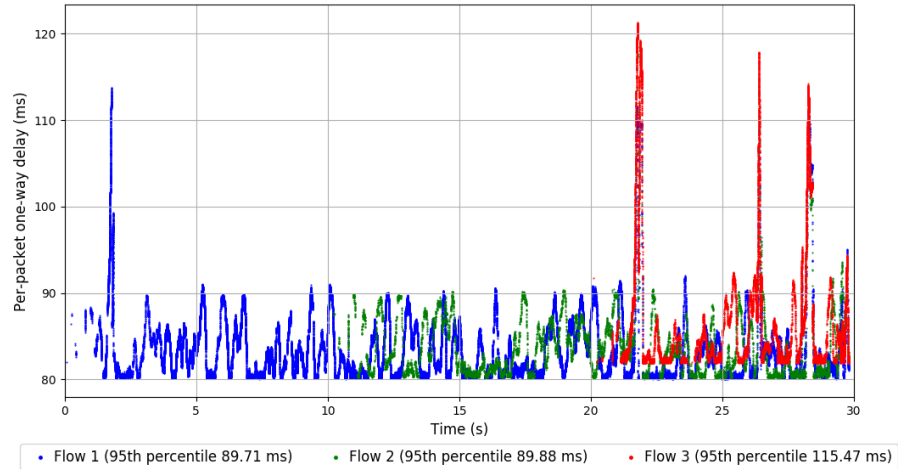
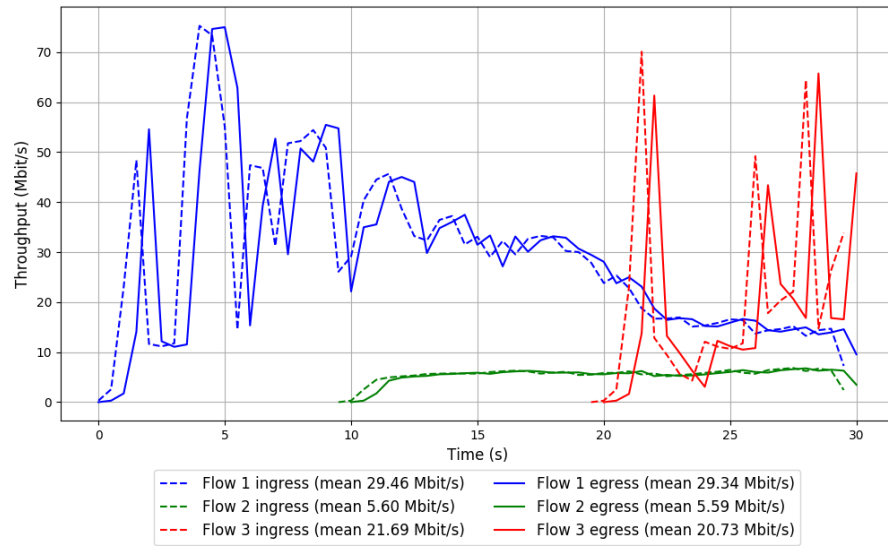
-- Flow 3:

Average throughput: 20.73 Mbit/s

95th percentile per-packet one-way delay: 115.470 ms

Loss rate: 4.50%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-03 20:32:28

End at: 2018-07-03 20:32:58

Local clock offset: -2.715 ms

Remote clock offset: 9.966 ms

Below is generated by plot.py at 2018-07-03 22:06:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 32.01 Mbit/s

95th percentile per-packet one-way delay: 108.719 ms

Loss rate: 2.17%

-- Flow 1:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 94.296 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 26.33 Mbit/s

95th percentile per-packet one-way delay: 110.086 ms

Loss rate: 2.18%

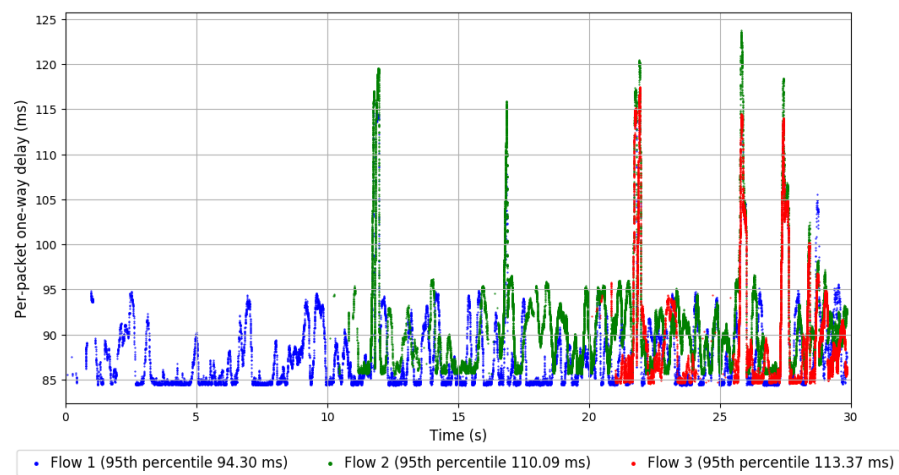
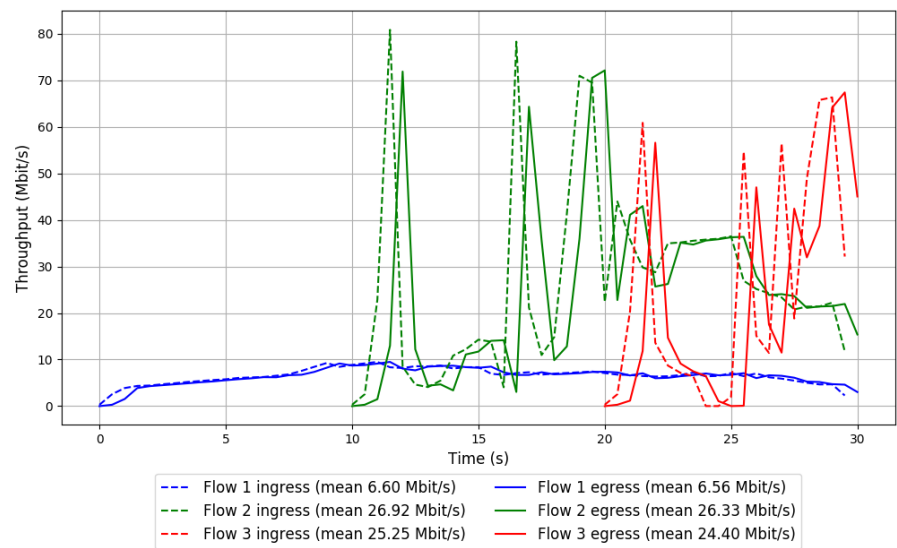
-- Flow 3:

Average throughput: 24.40 Mbit/s

95th percentile per-packet one-way delay: 113.369 ms

Loss rate: 3.46%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-03 20:53:33

End at: 2018-07-03 20:54:03

Local clock offset: -3.076 ms

Remote clock offset: 7.052 ms

Below is generated by plot.py at 2018-07-03 22:06:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.46 Mbit/s

95th percentile per-packet one-way delay: 104.291 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 29.53 Mbit/s

95th percentile per-packet one-way delay: 97.408 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 30.90 Mbit/s

95th percentile per-packet one-way delay: 107.880 ms

Loss rate: 1.55%

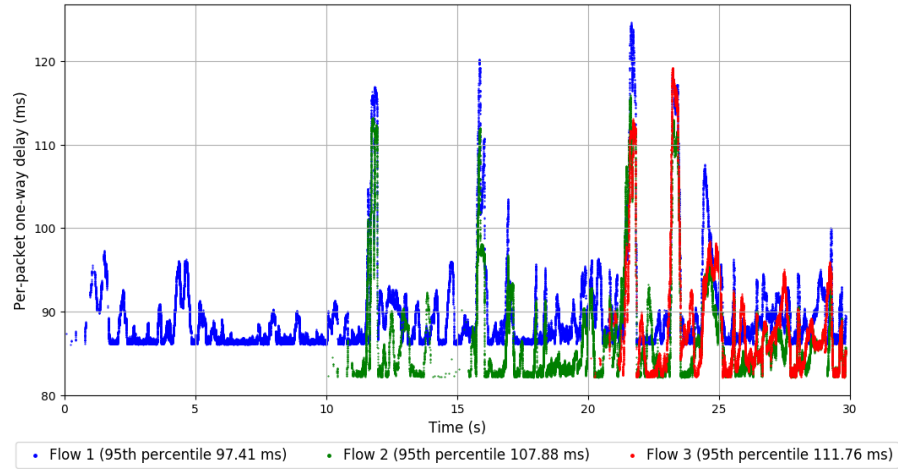
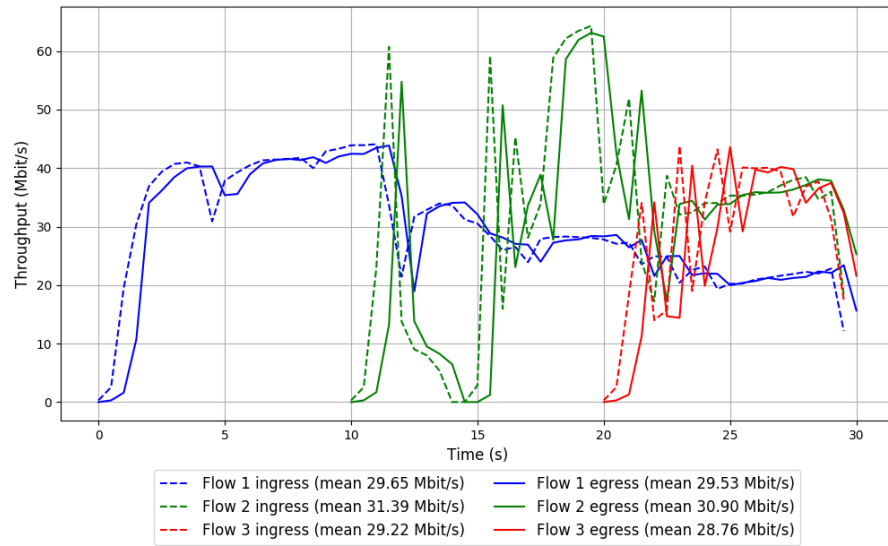
-- Flow 3:

Average throughput: 28.76 Mbit/s

95th percentile per-packet one-way delay: 111.756 ms

Loss rate: 1.56%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-03 21:14:45

End at: 2018-07-03 21:15:15

Local clock offset: -2.754 ms

Remote clock offset: 5.291 ms

Below is generated by plot.py at 2018-07-03 22:06:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.44 Mbit/s

95th percentile per-packet one-way delay: 107.075 ms

Loss rate: 1.61%

-- Flow 1:

Average throughput: 21.49 Mbit/s

95th percentile per-packet one-way delay: 98.779 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 33.58 Mbit/s

95th percentile per-packet one-way delay: 110.506 ms

Loss rate: 2.99%

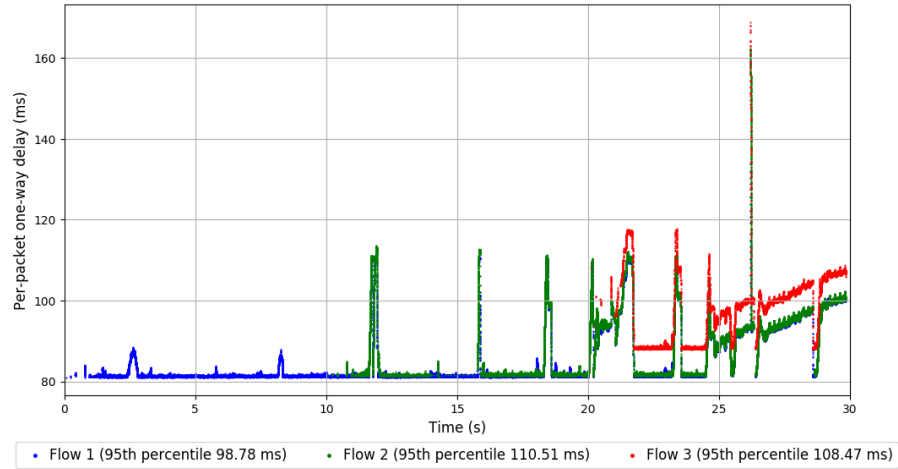
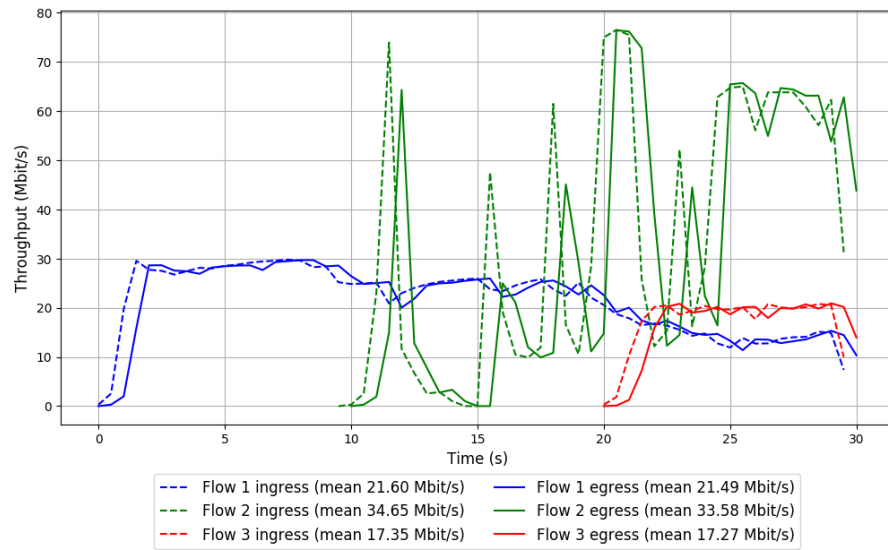
-- Flow 3:

Average throughput: 17.27 Mbit/s

95th percentile per-packet one-way delay: 108.467 ms

Loss rate: 0.54%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-03 21:35:57

End at: 2018-07-03 21:36:27

Local clock offset: -2.014 ms

Remote clock offset: 3.131 ms

Below is generated by plot.py at 2018-07-03 22:06:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.79 Mbit/s

95th percentile per-packet one-way delay: 109.389 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 53.26 Mbit/s

95th percentile per-packet one-way delay: 108.402 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 18.45 Mbit/s

95th percentile per-packet one-way delay: 110.852 ms

Loss rate: 0.23%

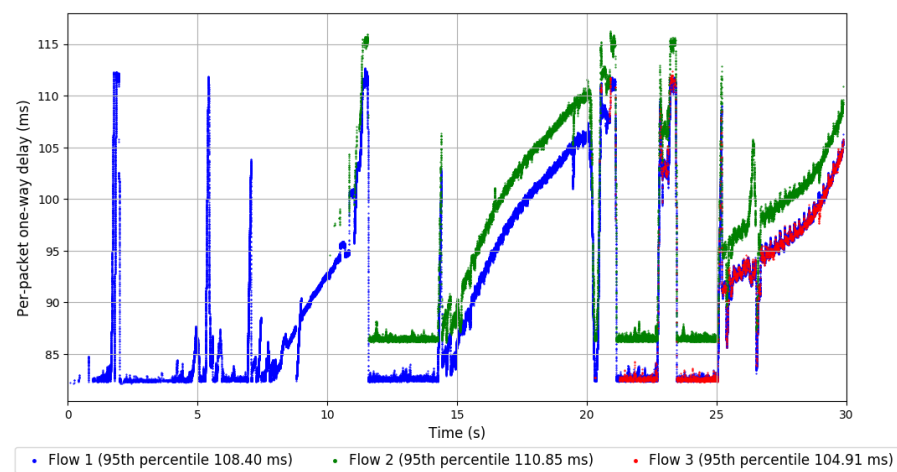
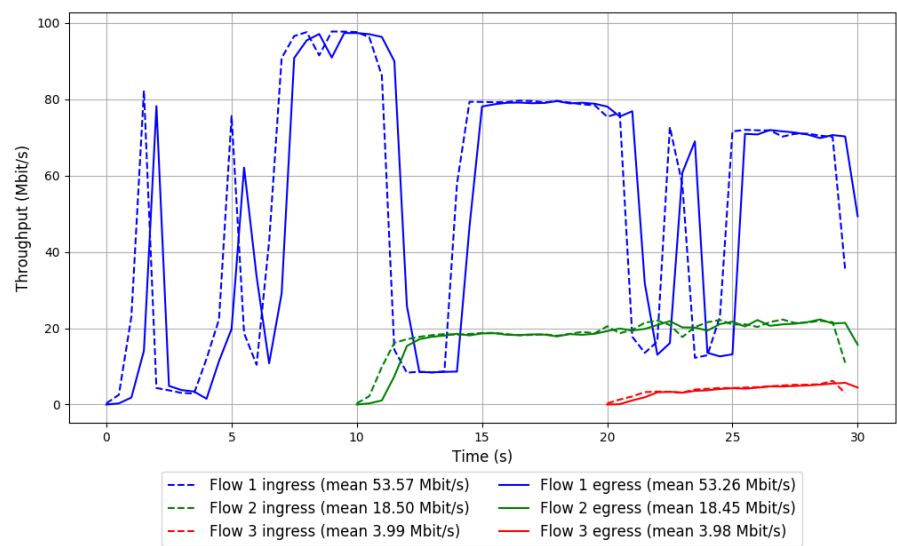
-- Flow 3:

Average throughput: 3.98 Mbit/s

95th percentile per-packet one-way delay: 104.907 ms

Loss rate: 0.23%

Run 10: Report of QUIC Cubic — Data Link

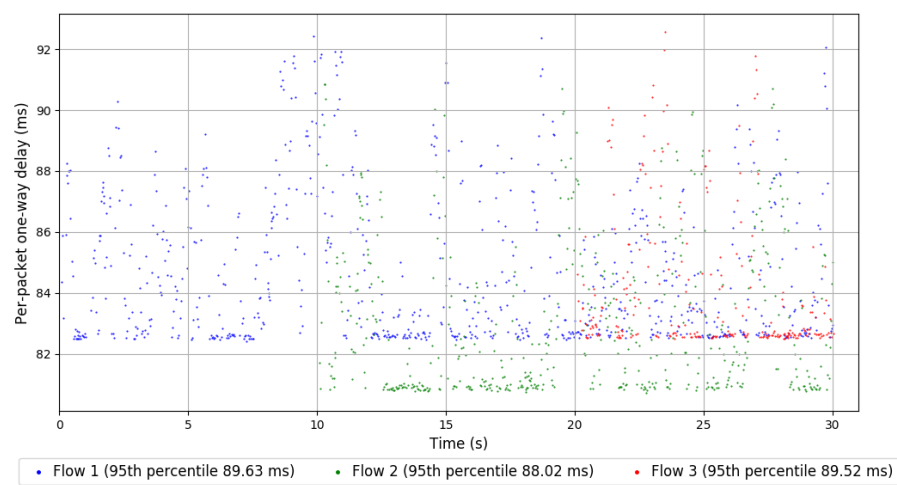
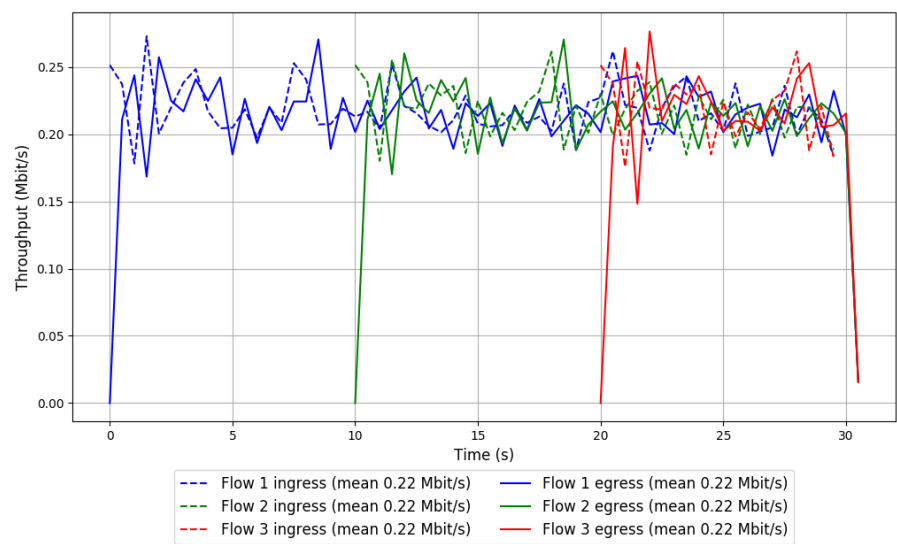


```
Run 1: Statistics of SReAM

Start at: 2018-07-03 18:29:38
End at: 2018-07-03 18:30:08
Local clock offset: -1.897 ms
Remote clock offset: 9.808 ms

# Below is generated by plot.py at 2018-07-03 22:06:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 89.303 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 89.627 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 88.019 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 89.516 ms
Loss rate: 0.00%
```


Run 1: Report of SReAM — Data Link

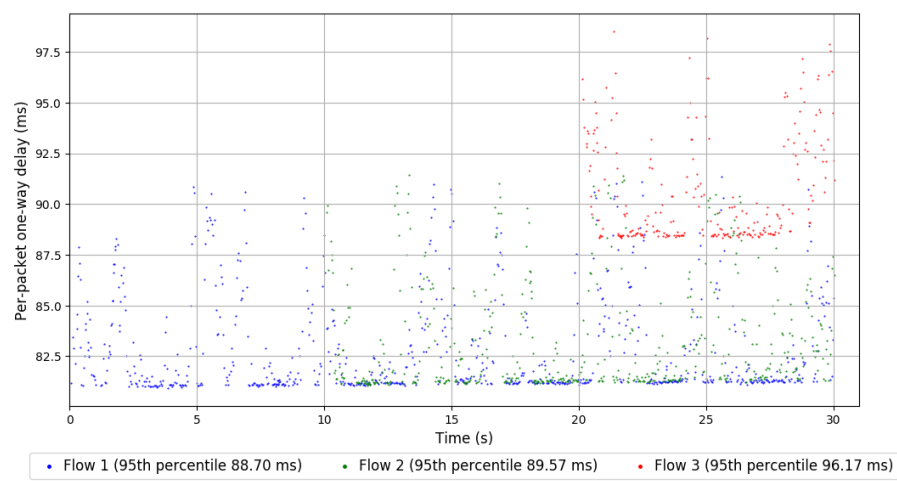
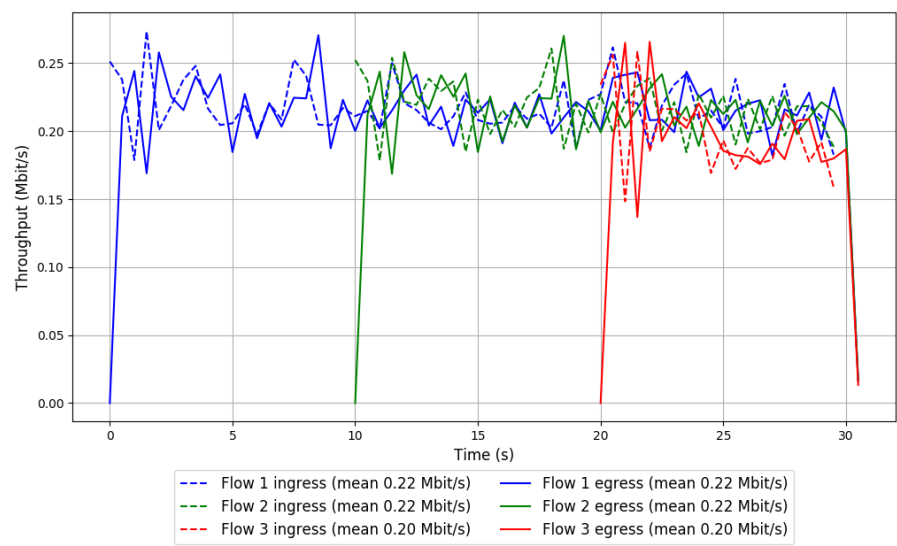


Run 2: Statistics of SReAM

Start at: 2018-07-03 18:50:44
End at: 2018-07-03 18:51:14
Local clock offset: -1.939 ms
Remote clock offset: 9.315 ms

Below is generated by plot.py at 2018-07-03 22:06:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 91.774 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 88.700 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 89.570 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 96.174 ms
Loss rate: 0.05%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-07-03 19:11:54

End at: 2018-07-03 19:12:24

Local clock offset: -1.95 ms

Remote clock offset: 7.67 ms

Below is generated by plot.py at 2018-07-03 22:06:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 95.249 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 93.079 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 93.753 ms

Loss rate: 0.00%

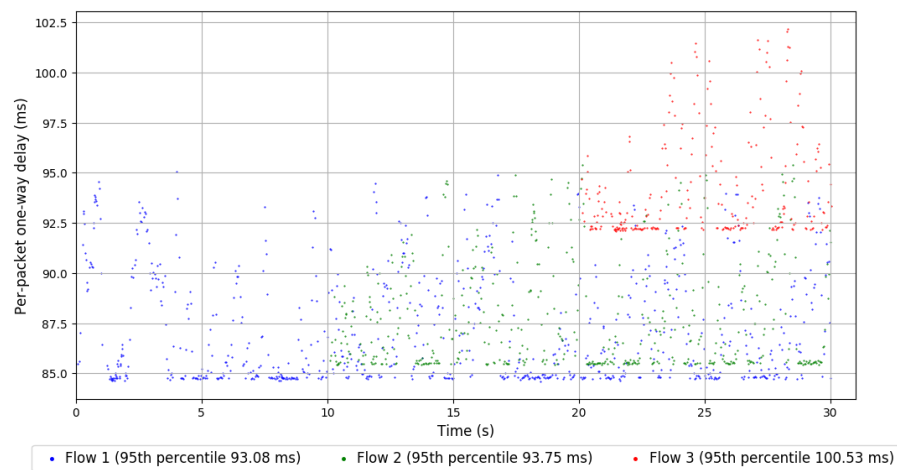
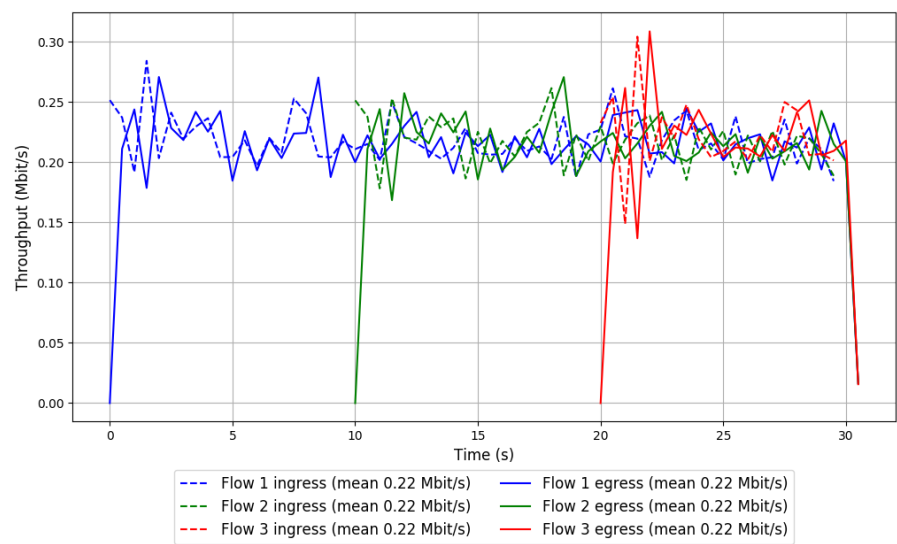
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 100.529 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-07-03 19:33:02

End at: 2018-07-03 19:33:32

Local clock offset: -2.194 ms

Remote clock offset: 6.66 ms

Below is generated by plot.py at 2018-07-03 22:06:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 91.158 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 90.788 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 91.904 ms

Loss rate: 0.47%

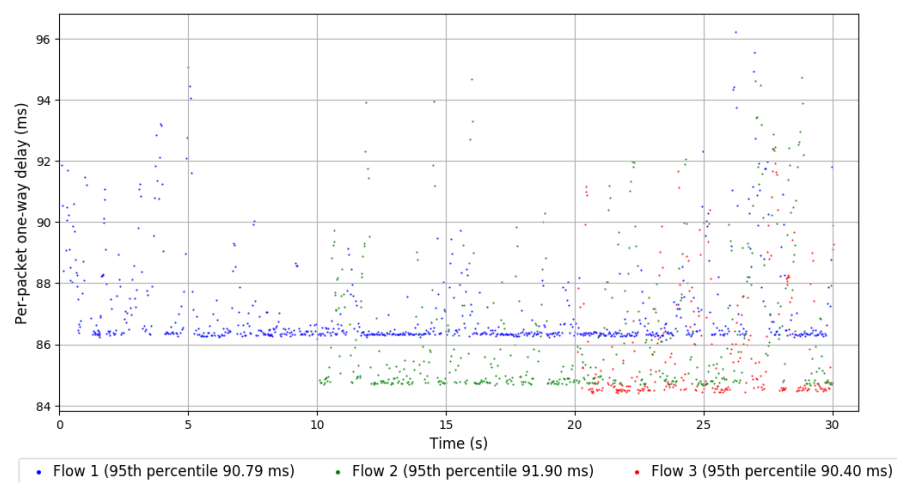
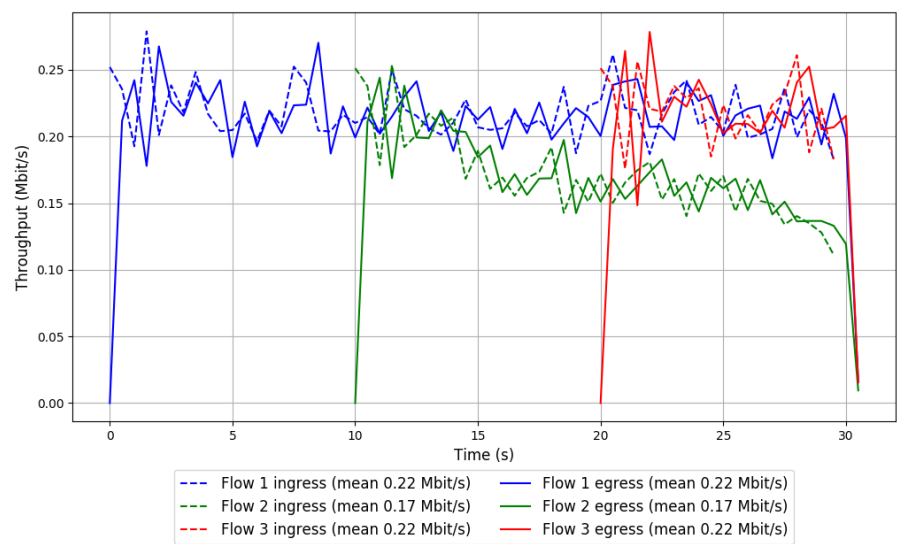
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 90.397 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-07-03 19:54:06

End at: 2018-07-03 19:54:36

Local clock offset: -2.209 ms

Remote clock offset: 2.003 ms

Below is generated by plot.py at 2018-07-03 22:06:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 91.104 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 87.853 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 93.750 ms

Loss rate: 0.20%

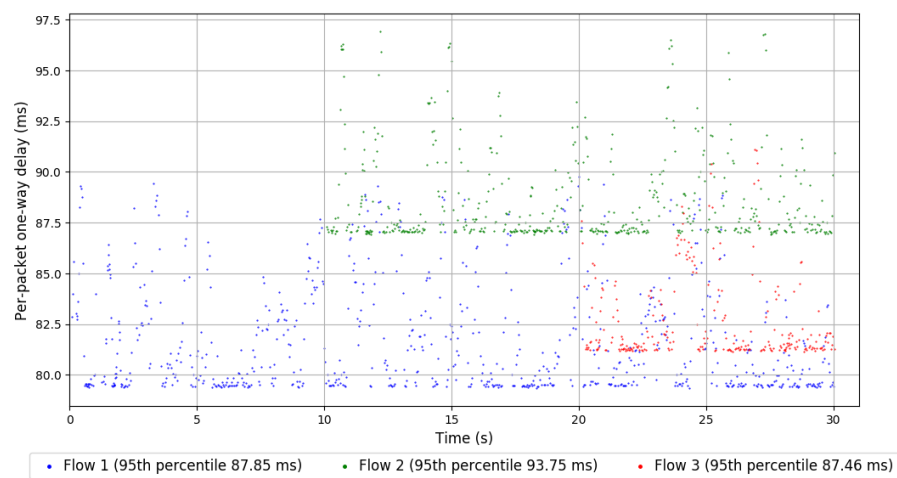
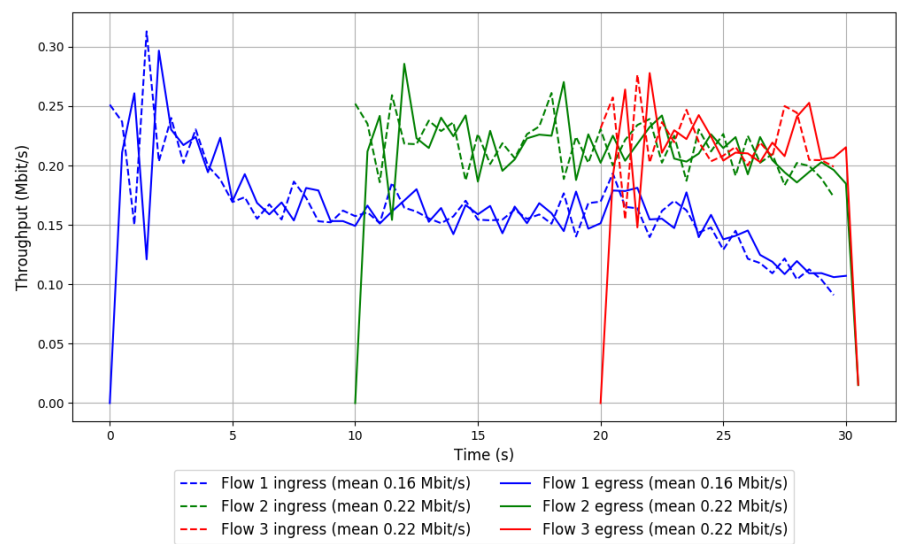
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.456 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-07-03 20:15:06

End at: 2018-07-03 20:15:36

Local clock offset: -2.397 ms

Remote clock offset: 9.554 ms

Below is generated by plot.py at 2018-07-03 22:06:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 94.657 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 94.858 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 95.150 ms

Loss rate: 0.59%

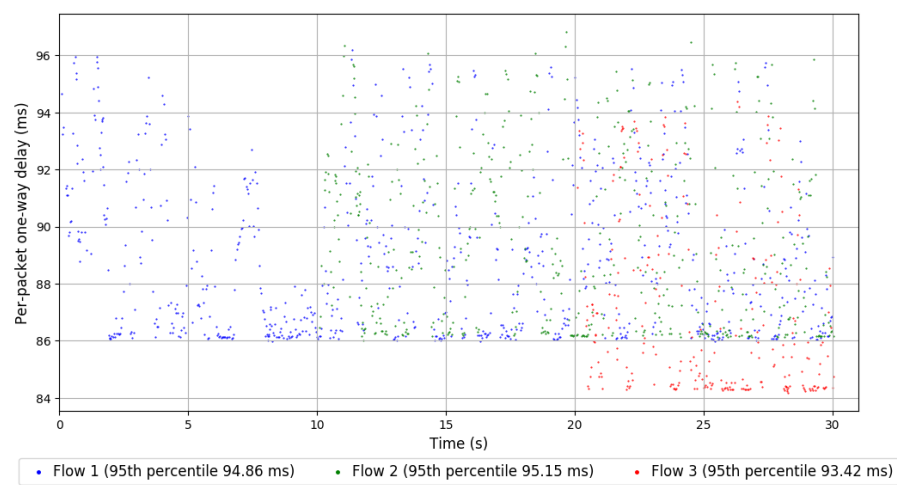
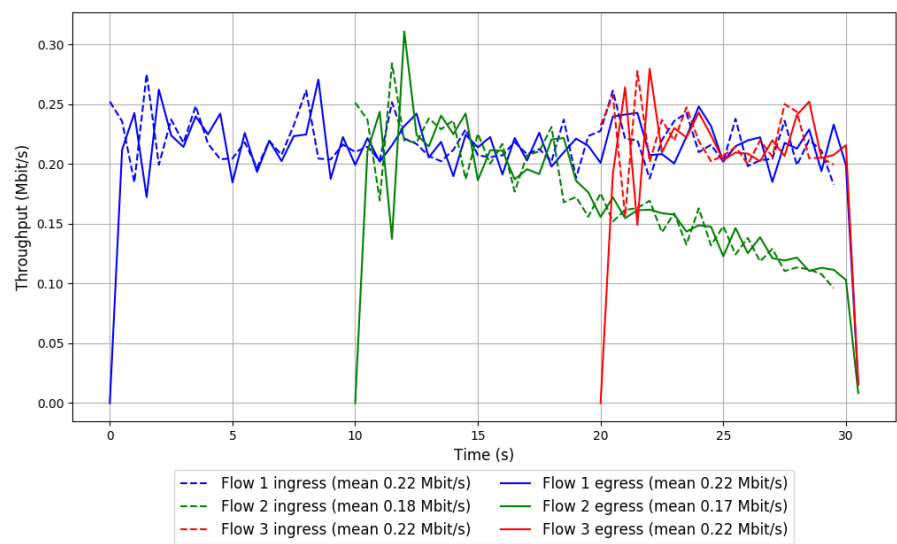
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 93.425 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2018-07-03 20:36:06

End at: 2018-07-03 20:36:36

Local clock offset: -2.779 ms

Remote clock offset: 9.223 ms

Below is generated by plot.py at 2018-07-03 22:06:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 93.732 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 93.670 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 93.535 ms

Loss rate: 0.20%

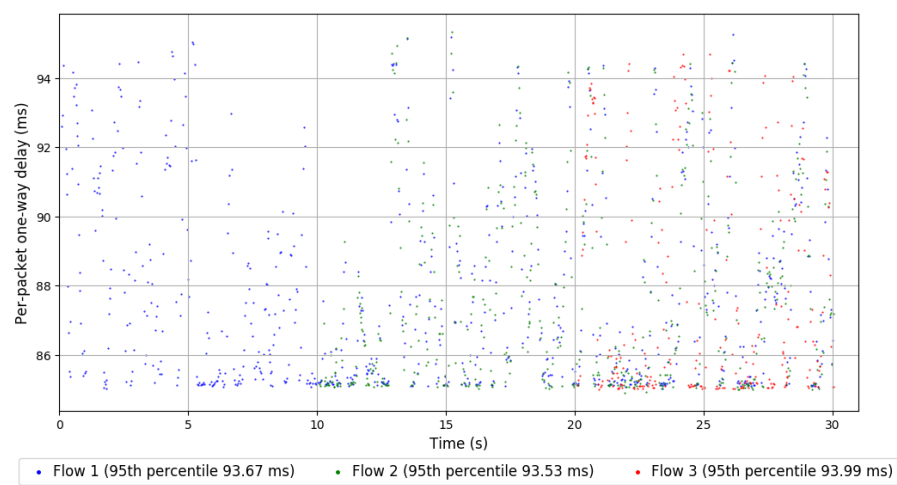
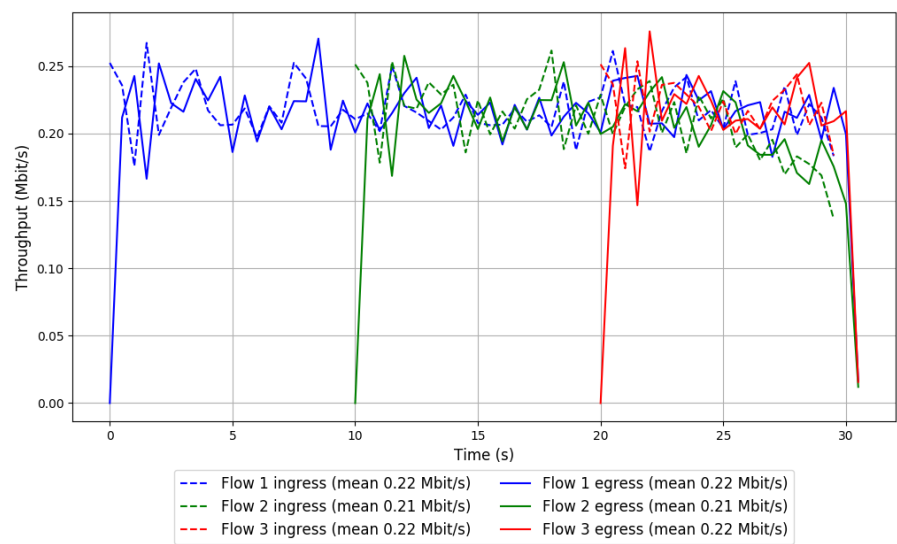
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 93.986 ms

Loss rate: 0.00%

Run 7: Report of SCRaM — Data Link

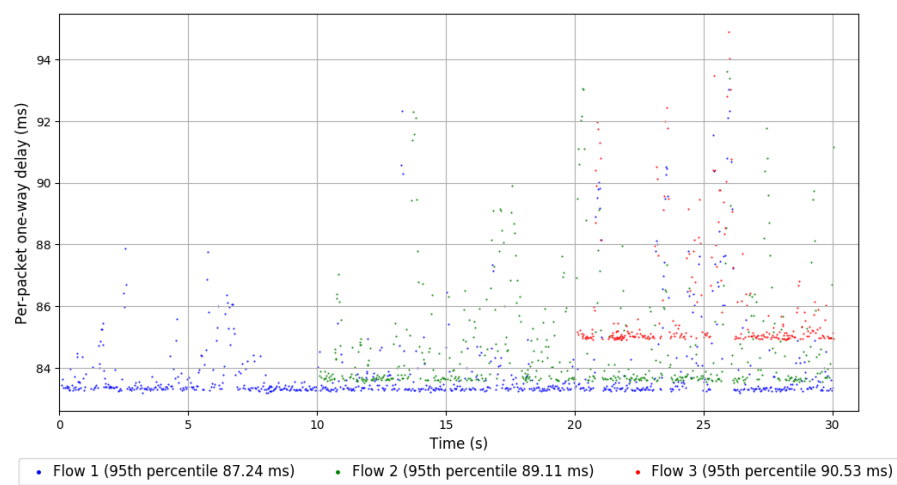
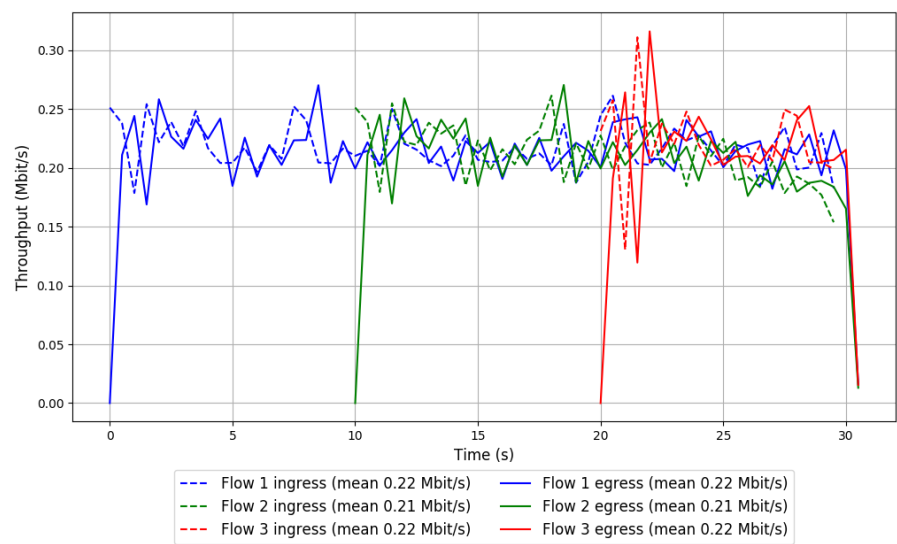


Run 8: Statistics of SReAM

Start at: 2018-07-03 20:57:13
End at: 2018-07-03 20:57:43
Local clock offset: -3.098 ms
Remote clock offset: 10.045 ms

Below is generated by plot.py at 2018-07-03 22:06:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 89.098 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.237 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 89.112 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 90.525 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-07-03 21:18:24

End at: 2018-07-03 21:18:54

Local clock offset: -2.487 ms

Remote clock offset: 4.601 ms

Below is generated by plot.py at 2018-07-03 22:06:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 82.493 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 82.094 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 81.015 ms

Loss rate: 0.00%

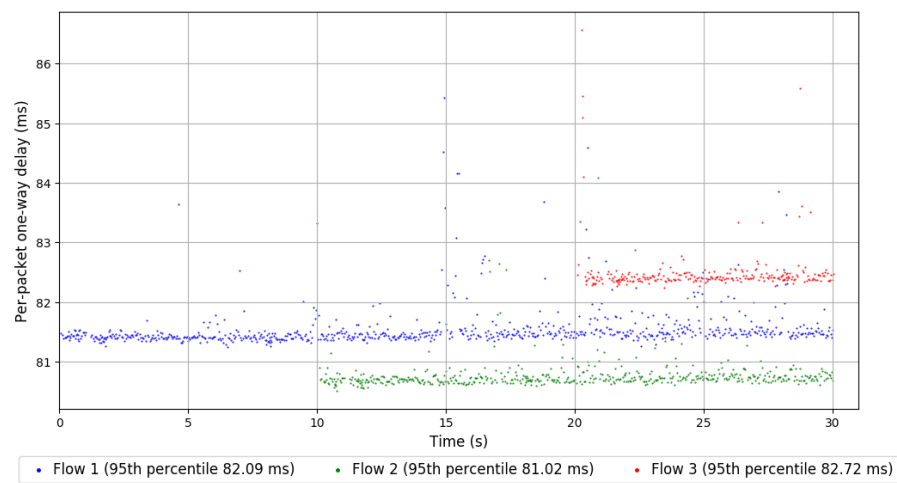
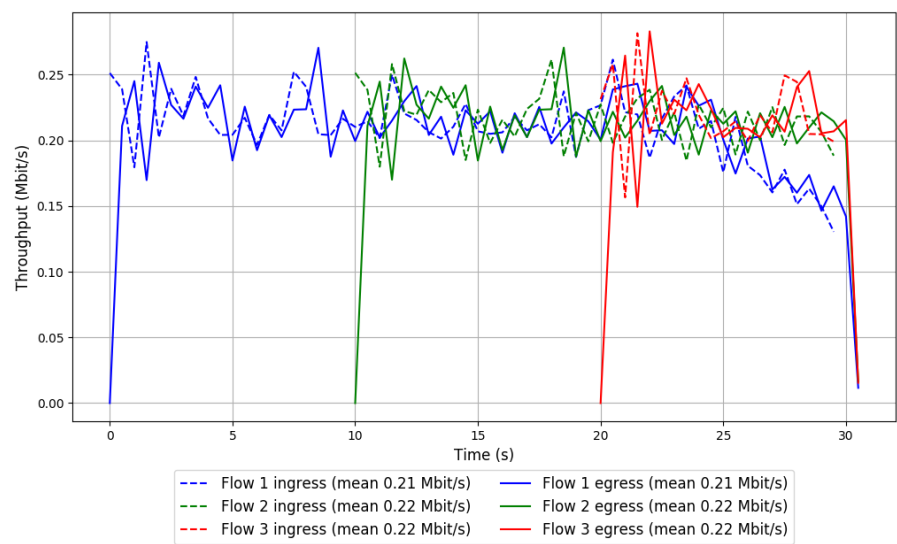
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 82.723 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-07-03 21:39:37

End at: 2018-07-03 21:40:07

Local clock offset: -1.887 ms

Remote clock offset: 5.772 ms

Below is generated by plot.py at 2018-07-03 22:06:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 85.604 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.313 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.971 ms

Loss rate: 0.00%

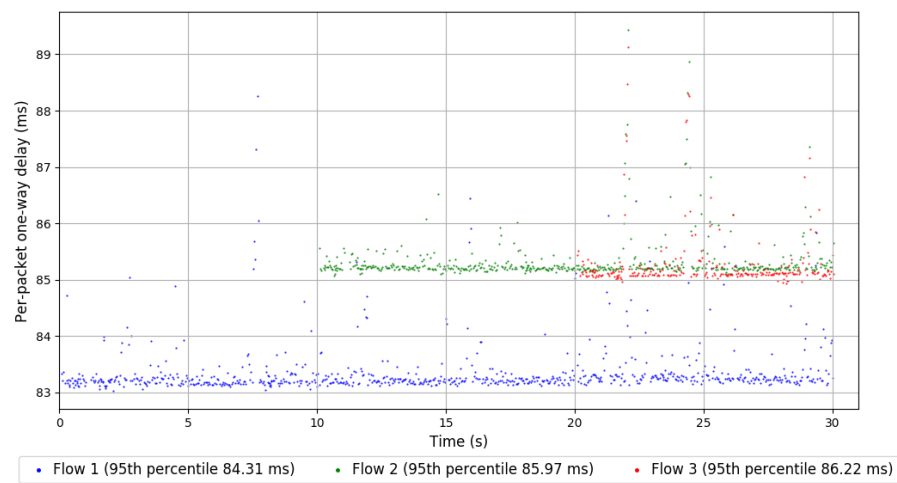
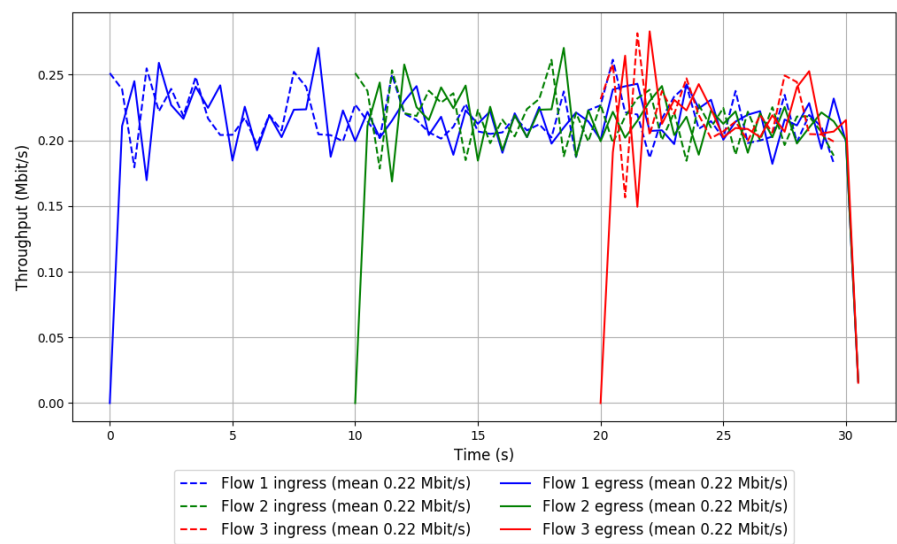
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.217 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

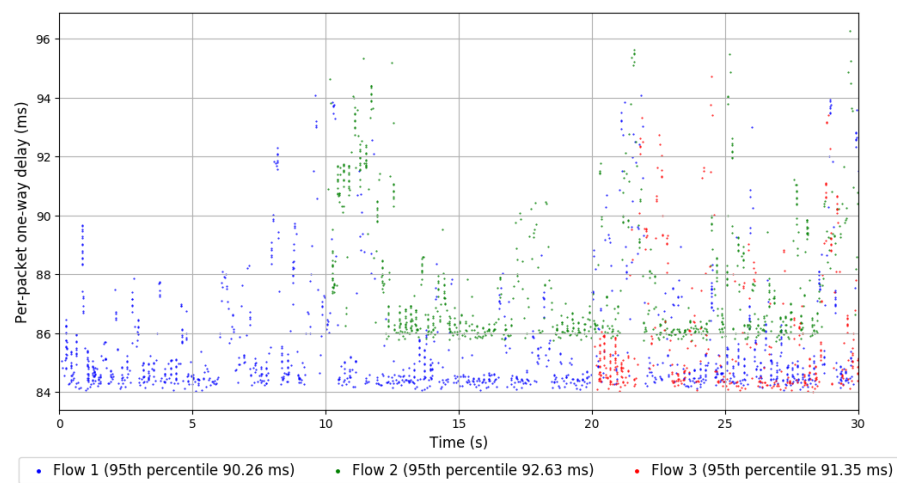
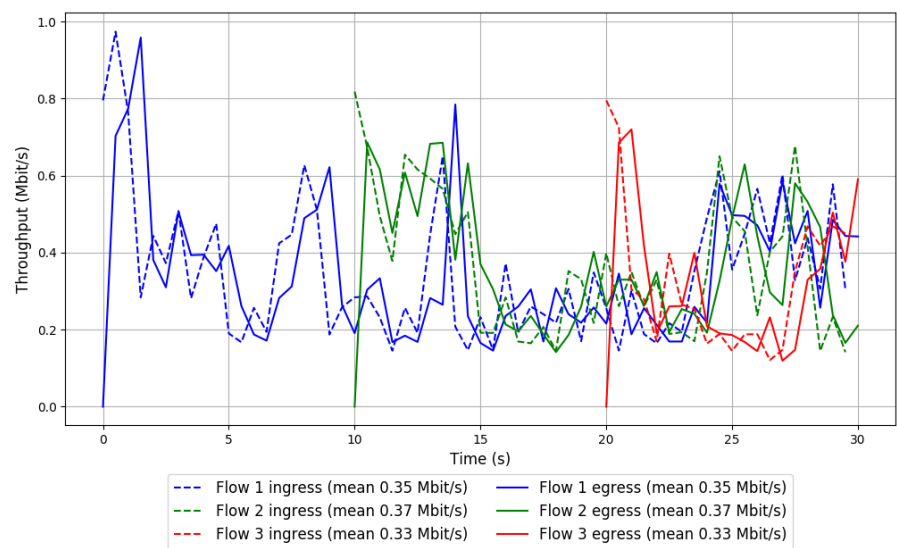


Run 1: Statistics of Sprout

Start at: 2018-07-03 18:37:07
End at: 2018-07-03 18:37:37
Local clock offset: -1.776 ms
Remote clock offset: 12.901 ms

Below is generated by plot.py at 2018-07-03 22:06:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.71 Mbit/s
95th percentile per-packet one-way delay: 91.774 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 90.257 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 92.632 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 91.350 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-07-03 18:58:14

End at: 2018-07-03 18:58:44

Local clock offset: -2.02 ms

Remote clock offset: 6.283 ms

Below is generated by plot.py at 2018-07-03 22:06:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.72 Mbit/s

95th percentile per-packet one-way delay: 90.687 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 91.162 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 87.631 ms

Loss rate: 0.23%

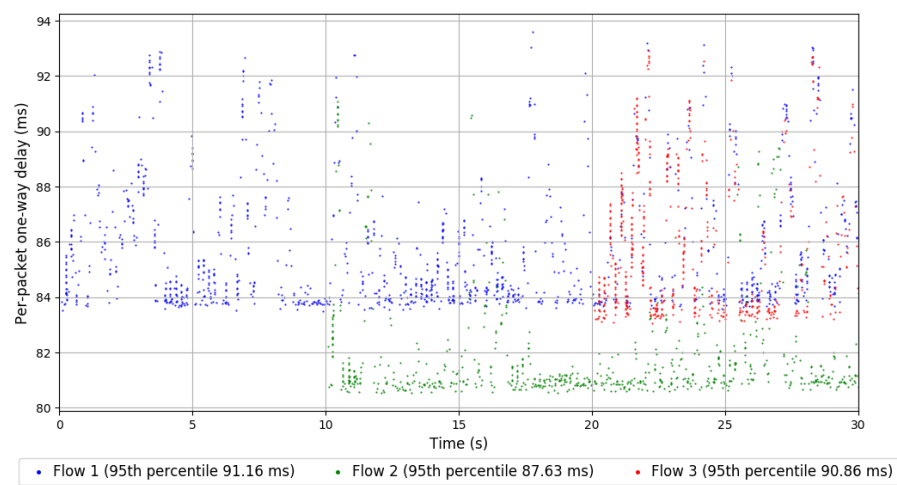
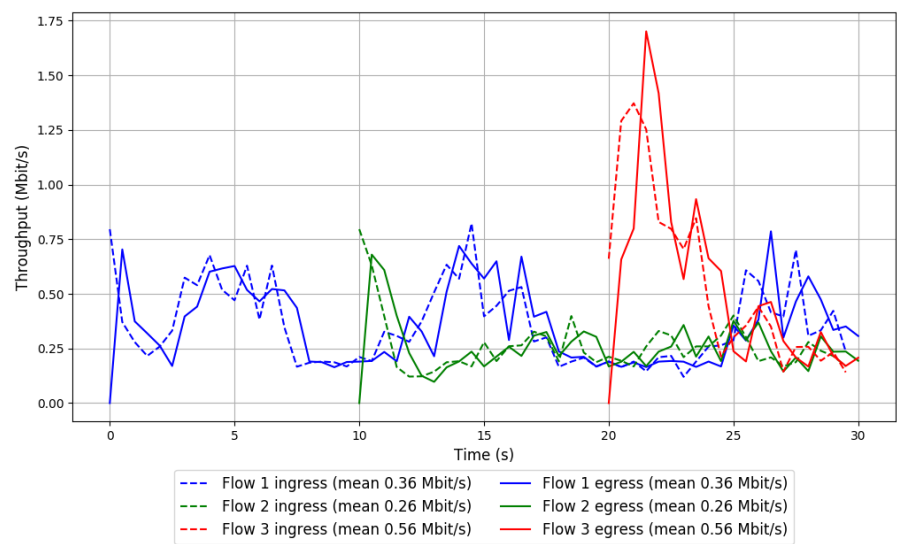
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 90.865 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

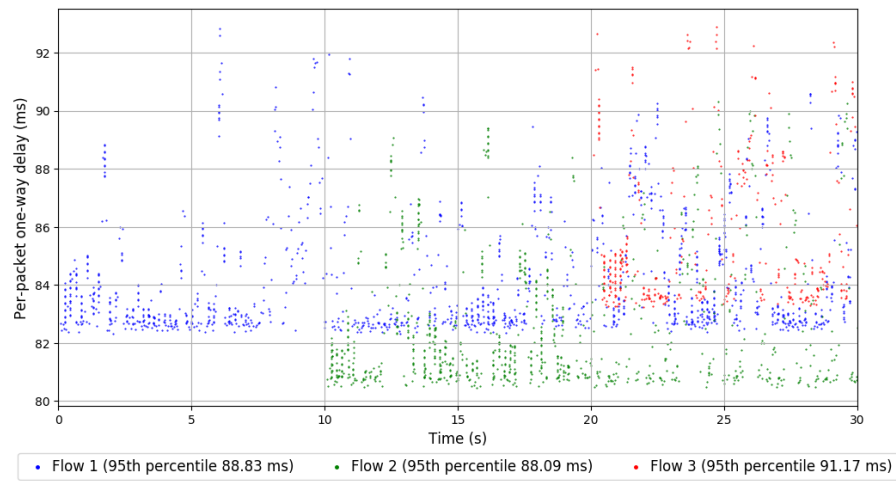
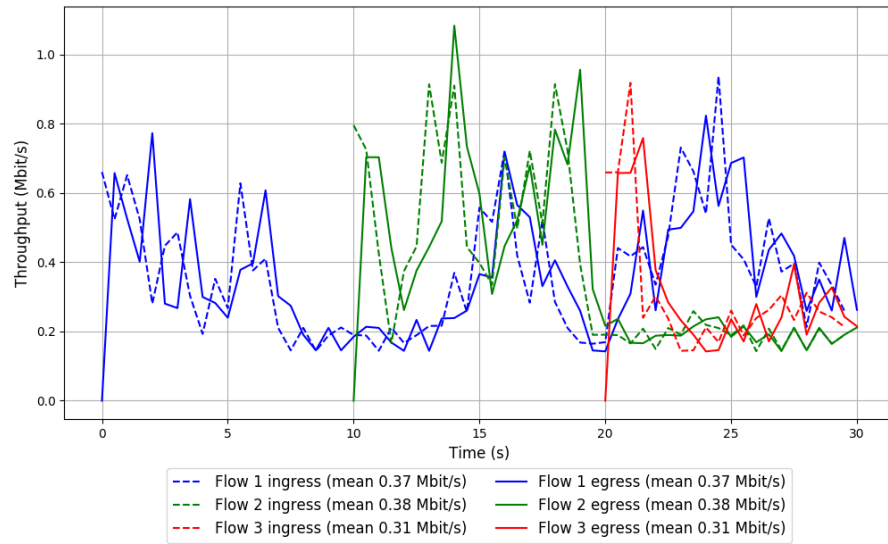


Run 3: Statistics of Sprout

Start at: 2018-07-03 19:19:24
End at: 2018-07-03 19:19:54
Local clock offset: -2.104 ms
Remote clock offset: 3.03 ms

```
# Below is generated by plot.py at 2018-07-03 22:06:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.72 Mbit/s
95th percentile per-packet one-way delay: 89.142 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 88.834 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 88.087 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 91.166 ms
Loss rate: 0.03%
```


Run 3: Report of Sprout — Data Link

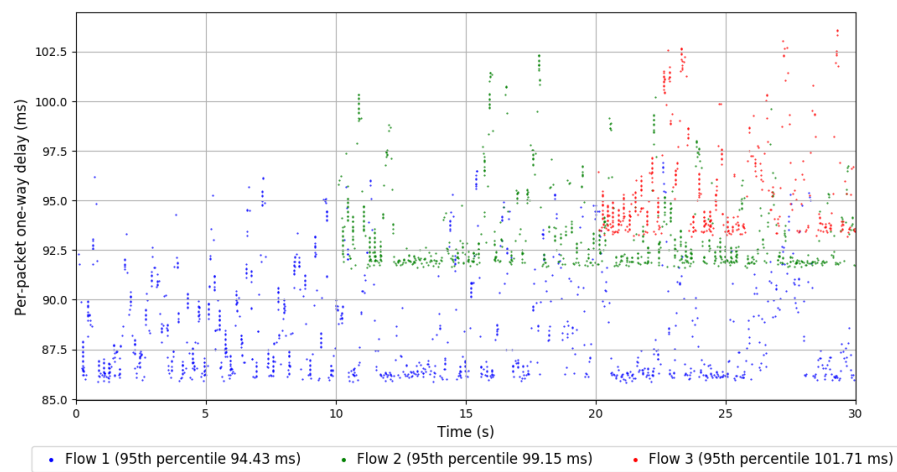
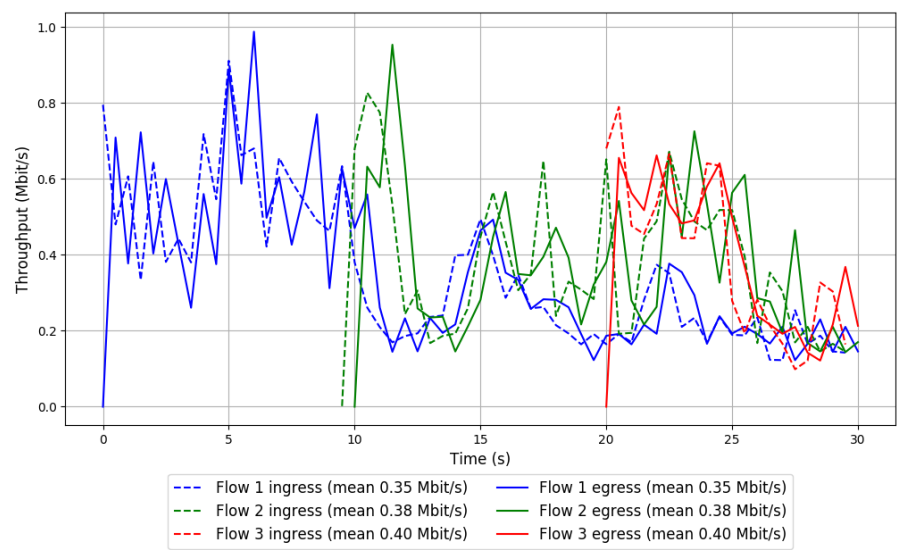


Run 4: Statistics of Sprout

Start at: 2018-07-03 19:40:31
End at: 2018-07-03 19:41:01
Local clock offset: -2.206 ms
Remote clock offset: 8.707 ms

```
# Below is generated by plot.py at 2018-07-03 22:06:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.74 Mbit/s
95th percentile per-packet one-way delay: 98.563 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 94.430 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 99.148 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 101.707 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

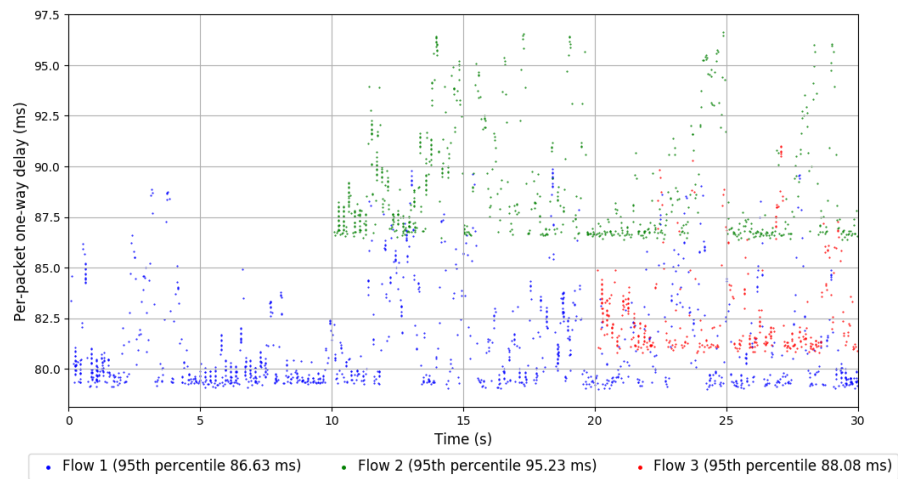
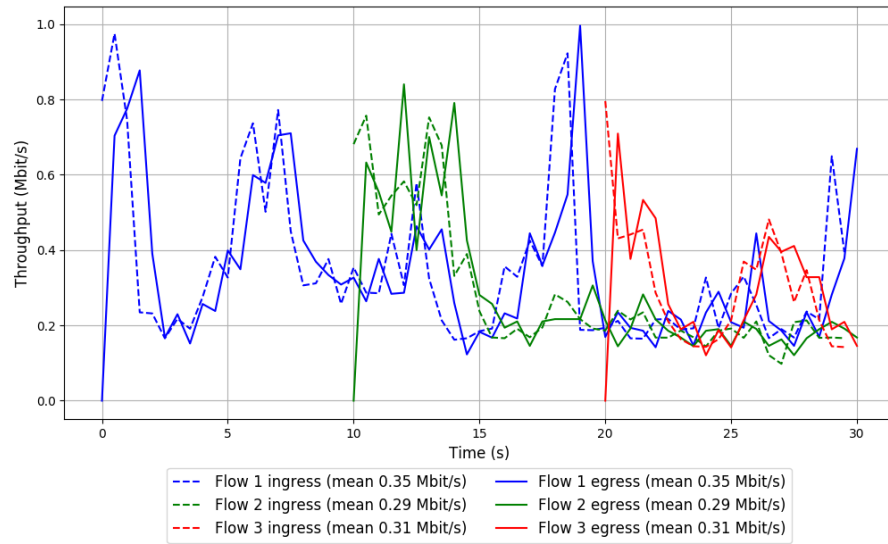


Run 5: Statistics of Sprout

Start at: 2018-07-03 20:01:34
End at: 2018-07-03 20:02:04
Local clock offset: -2.198 ms
Remote clock offset: 2.606 ms

```
# Below is generated by plot.py at 2018-07-03 22:06:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 91.967 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 86.629 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 95.230 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 88.078 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

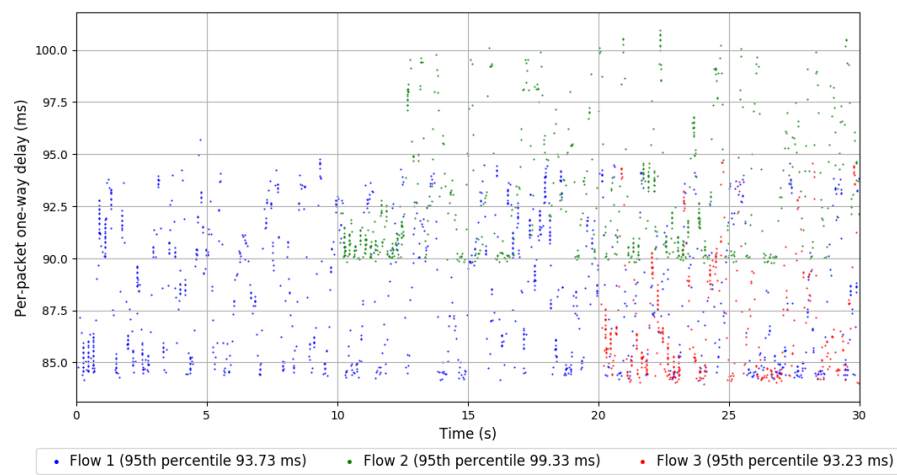
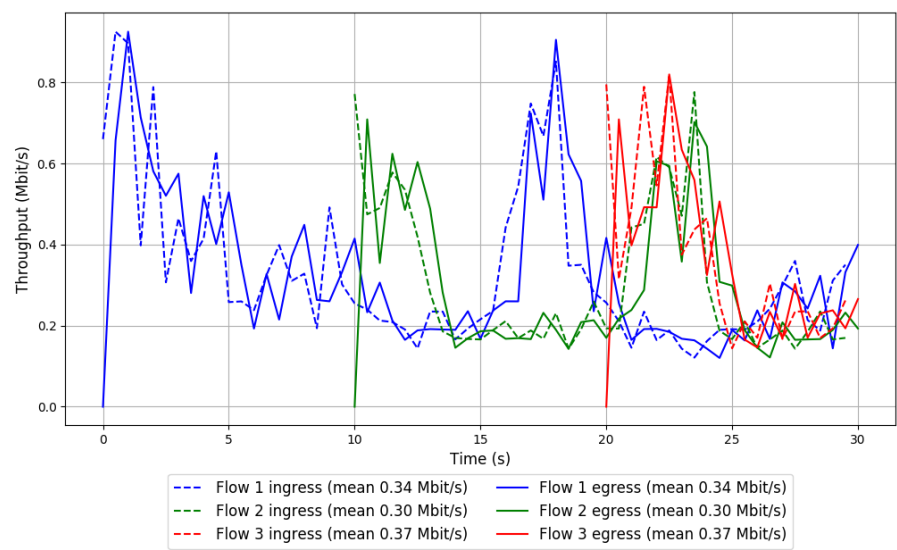


Run 6: Statistics of Sprout

Start at: 2018-07-03 20:22:33
End at: 2018-07-03 20:23:03
Local clock offset: -2.587 ms
Remote clock offset: 9.808 ms

```
# Below is generated by plot.py at 2018-07-03 22:06:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 97.021 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 93.731 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 99.326 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 93.234 ms
Loss rate: 0.00%
```

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-07-03 20:43:39

End at: 2018-07-03 20:44:09

Local clock offset: -2.87 ms

Remote clock offset: 5.726 ms

Below is generated by plot.py at 2018-07-03 22:06:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 93.810 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 89.815 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 96.047 ms

Loss rate: 0.42%

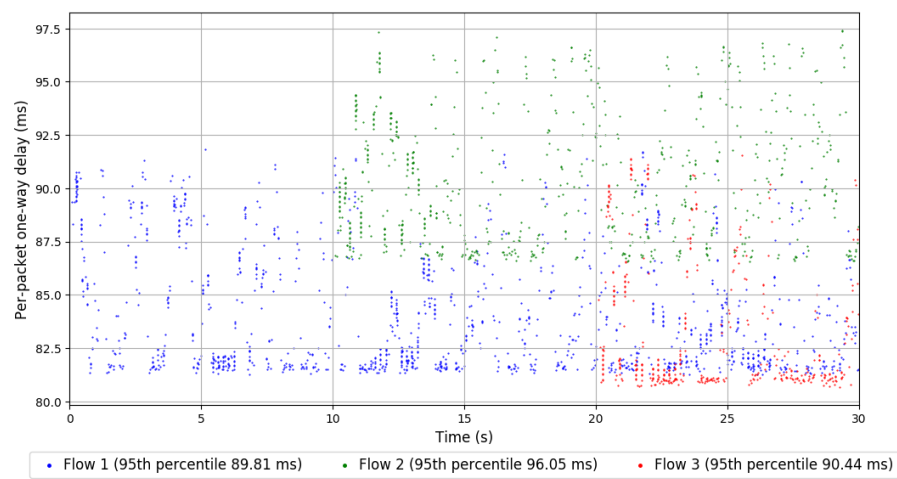
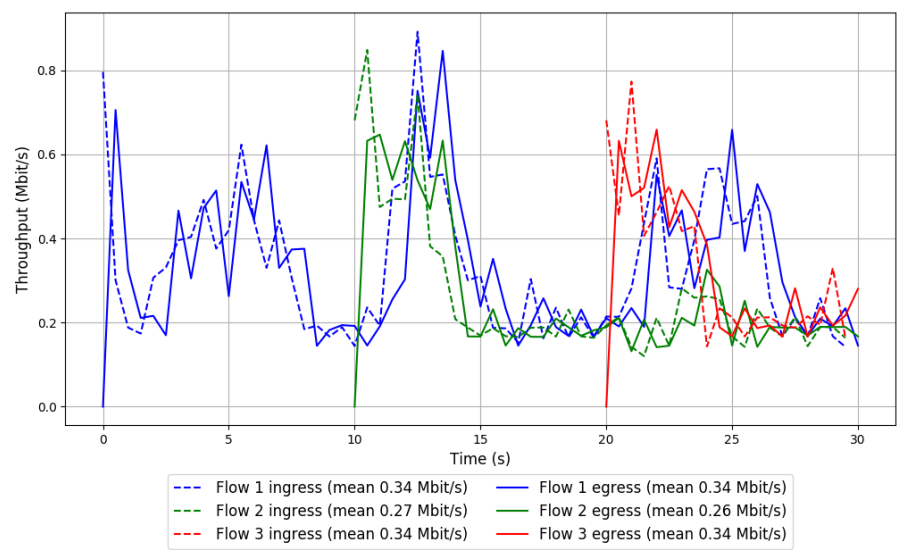
-- Flow 3:

Average throughput: 0.34 Mbit/s

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

Loss rate: 0.02%

Run 7: Report of Sprout — Data Link

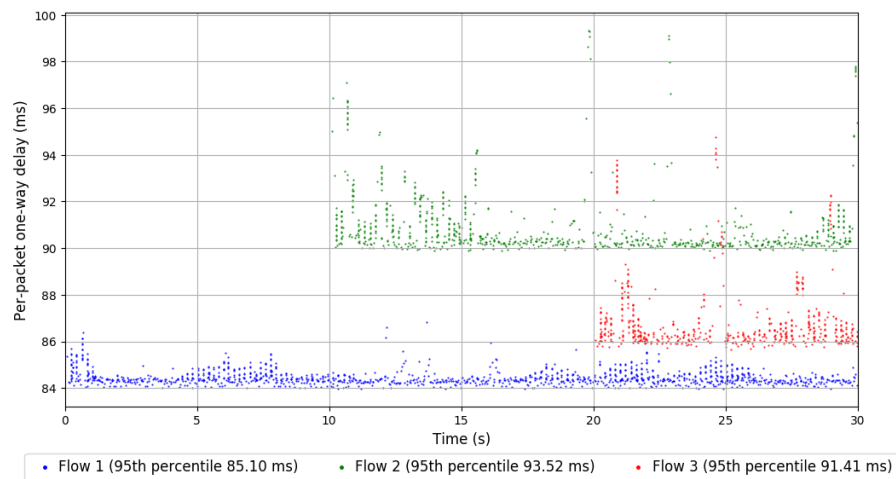
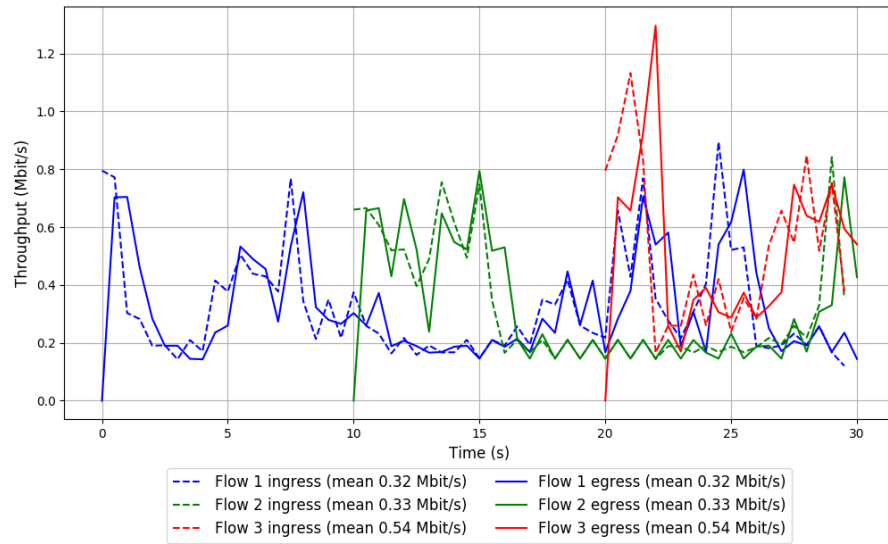


Run 8: Statistics of Sprout

Start at: 2018-07-03 21:04:46
End at: 2018-07-03 21:05:16
Local clock offset: -3.201 ms
Remote clock offset: 11.158 ms

```
# Below is generated by plot.py at 2018-07-03 22:06:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.72 Mbit/s
95th percentile per-packet one-way delay: 91.957 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 85.100 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 93.518 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 91.405 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link

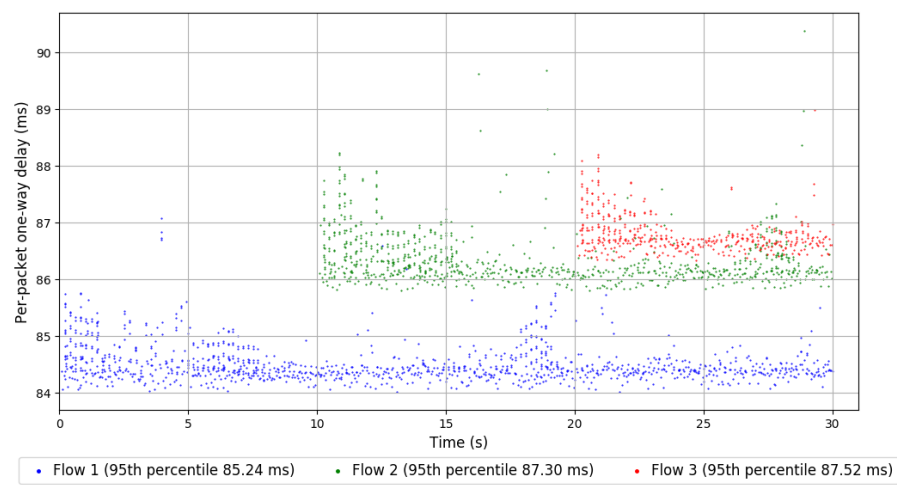
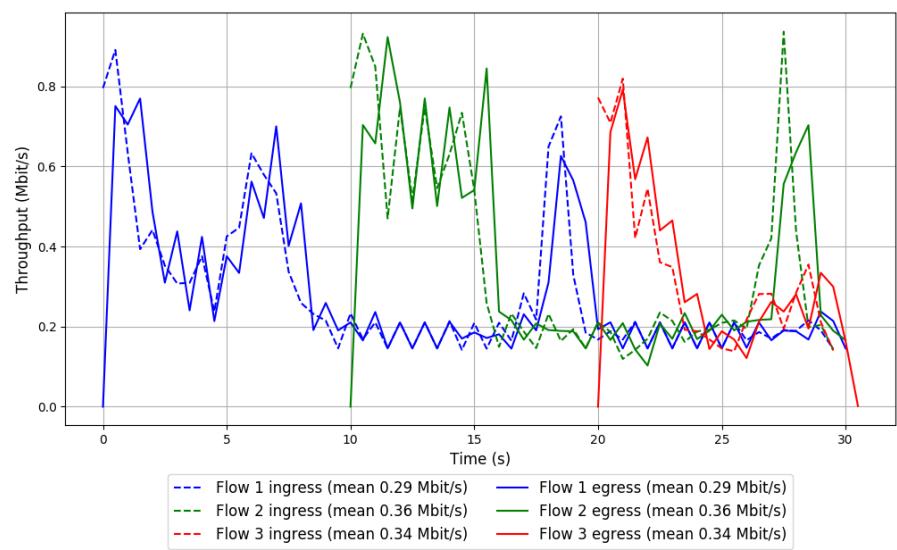


Run 9: Statistics of Sprout

Start at: 2018-07-03 21:25:55
End at: 2018-07-03 21:26:25
Local clock offset: -2.157 ms
Remote clock offset: 7.763 ms

```
# Below is generated by plot.py at 2018-07-03 22:06:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 87.118 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 85.239 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 87.296 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 87.520 ms
Loss rate: 0.00%
```

Run 9: Report of Sprout — Data Link

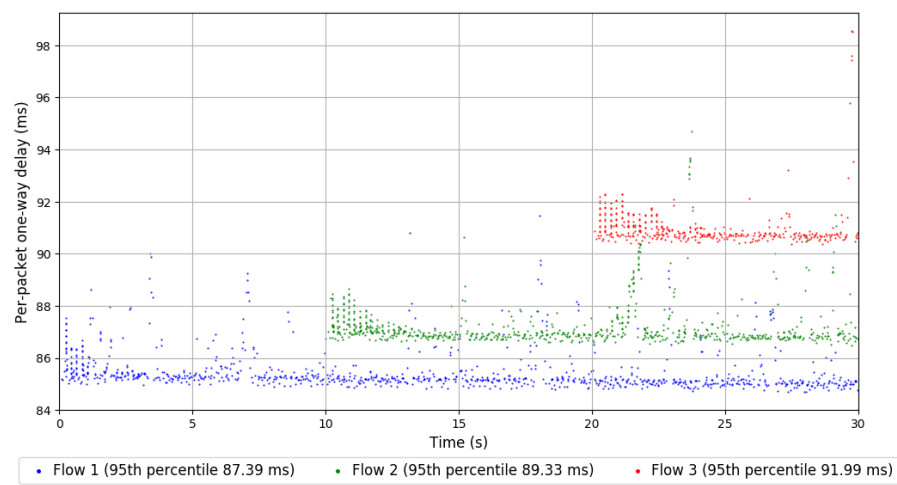
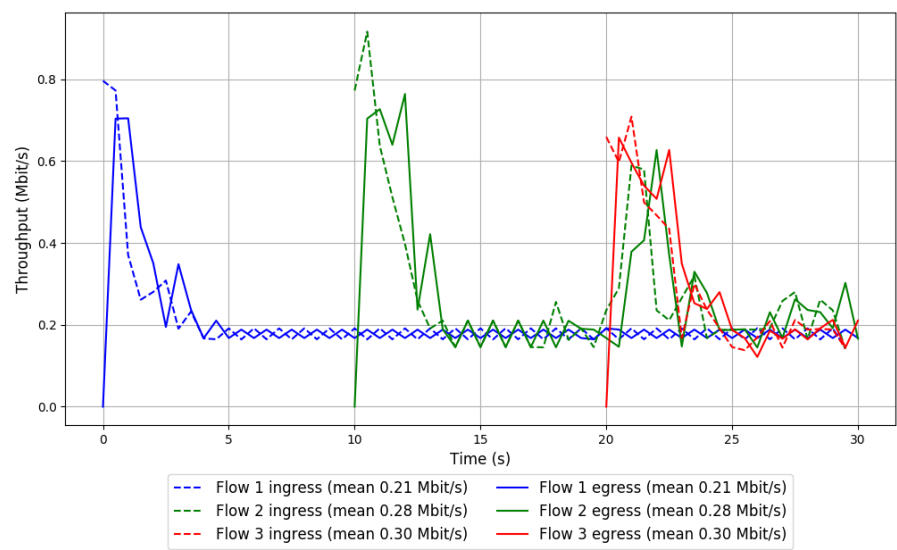


Run 10: Statistics of Sprout

Start at: 2018-07-03 21:47:09
End at: 2018-07-03 21:47:39
Local clock offset: -2.366 ms
Remote clock offset: 12.112 ms

Below is generated by plot.py at 2018-07-03 22:06:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 91.121 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 87.395 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 89.327 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 91.991 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

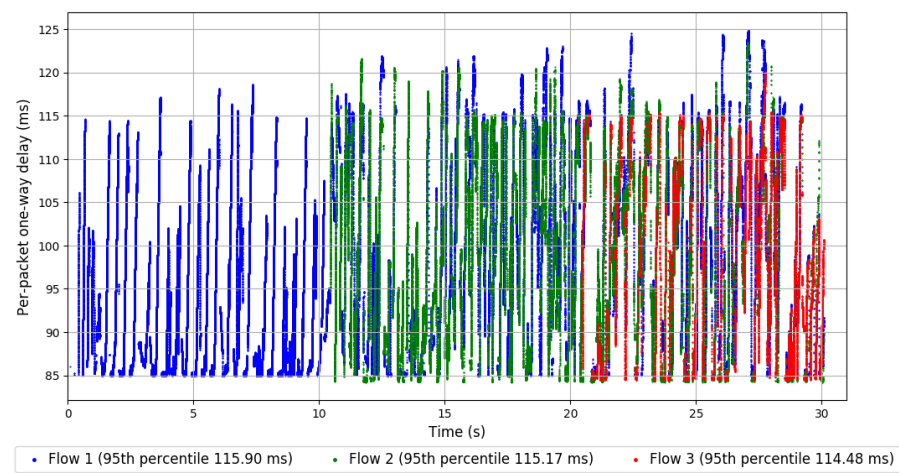
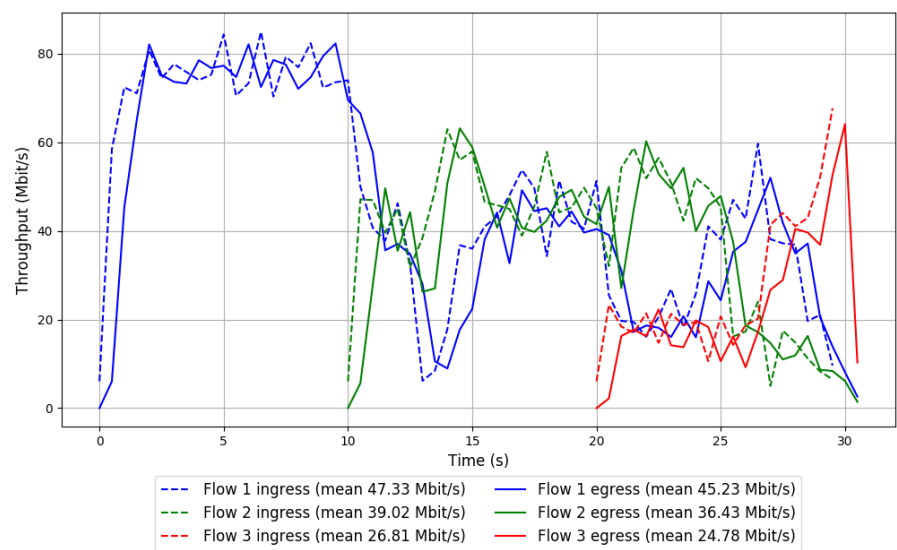


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-07-03 18:38:18
End at: 2018-07-03 18:38:48
Local clock offset: -1.75 ms
Remote clock offset: 12.846 ms

# Below is generated by plot.py at 2018-07-03 22:07:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.72 Mbit/s
95th percentile per-packet one-way delay: 115.422 ms
Loss rate: 5.46%
-- Flow 1:
Average throughput: 45.23 Mbit/s
95th percentile per-packet one-way delay: 115.896 ms
Loss rate: 4.42%
-- Flow 2:
Average throughput: 36.43 Mbit/s
95th percentile per-packet one-way delay: 115.173 ms
Loss rate: 6.63%
-- Flow 3:
Average throughput: 24.78 Mbit/s
95th percentile per-packet one-way delay: 114.483 ms
Loss rate: 7.60%
```


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



Run 2: Statistics of TaoVA-100x

Start at: 2018-07-03 18:59:25

End at: 2018-07-03 18:59:55

Local clock offset: -1.963 ms

Remote clock offset: 9.087 ms

Below is generated by plot.py at 2018-07-03 22:07:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.17 Mbit/s

95th percentile per-packet one-way delay: 115.182 ms

Loss rate: 4.15%

-- Flow 1:

Average throughput: 48.27 Mbit/s

95th percentile per-packet one-way delay: 114.939 ms

Loss rate: 3.12%

-- Flow 2:

Average throughput: 40.10 Mbit/s

95th percentile per-packet one-way delay: 115.141 ms

Loss rate: 5.17%

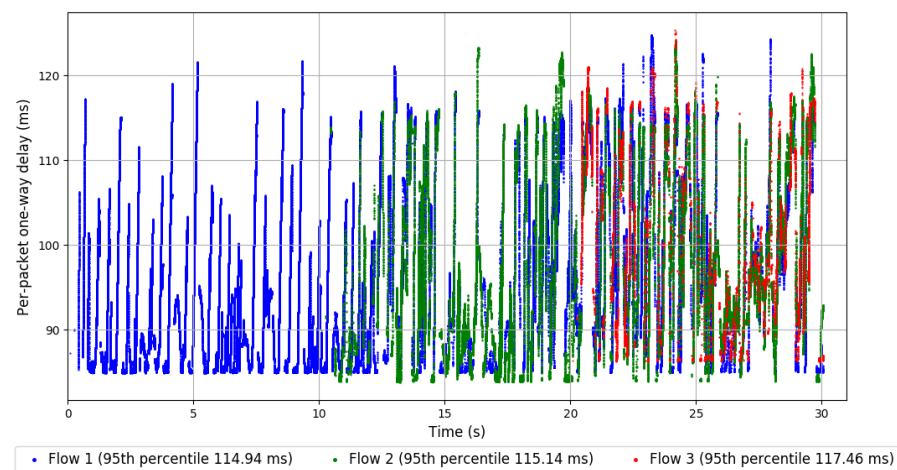
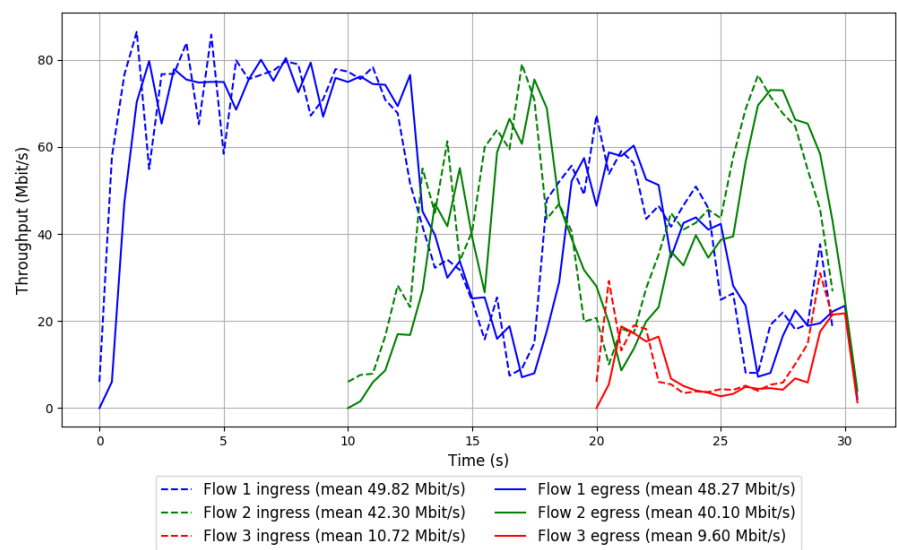
-- Flow 3:

Average throughput: 9.60 Mbit/s

95th percentile per-packet one-way delay: 117.463 ms

Loss rate: 10.47%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-07-03 19:20:34

End at: 2018-07-03 19:21:04

Local clock offset: -2.199 ms

Remote clock offset: 2.532 ms

Below is generated by plot.py at 2018-07-03 22:07:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.36 Mbit/s

95th percentile per-packet one-way delay: 116.258 ms

Loss rate: 5.70%

-- Flow 1:

Average throughput: 51.52 Mbit/s

95th percentile per-packet one-way delay: 116.643 ms

Loss rate: 4.29%

-- Flow 2:

Average throughput: 27.86 Mbit/s

95th percentile per-packet one-way delay: 114.518 ms

Loss rate: 8.12%

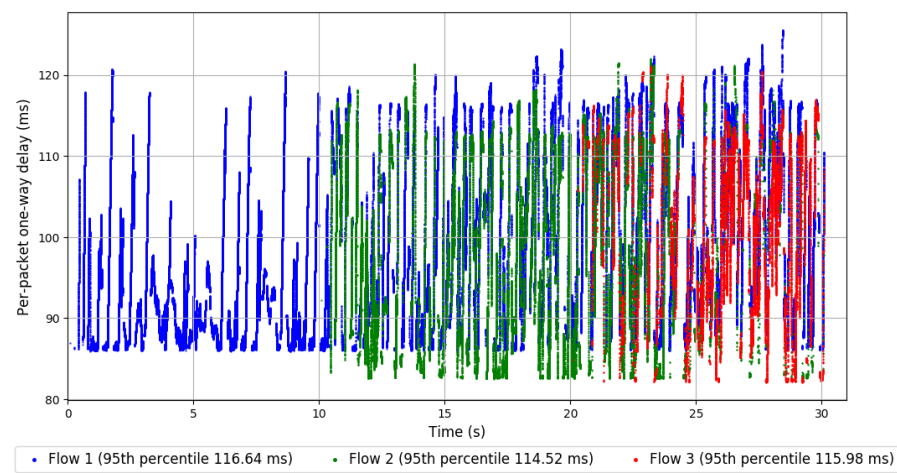
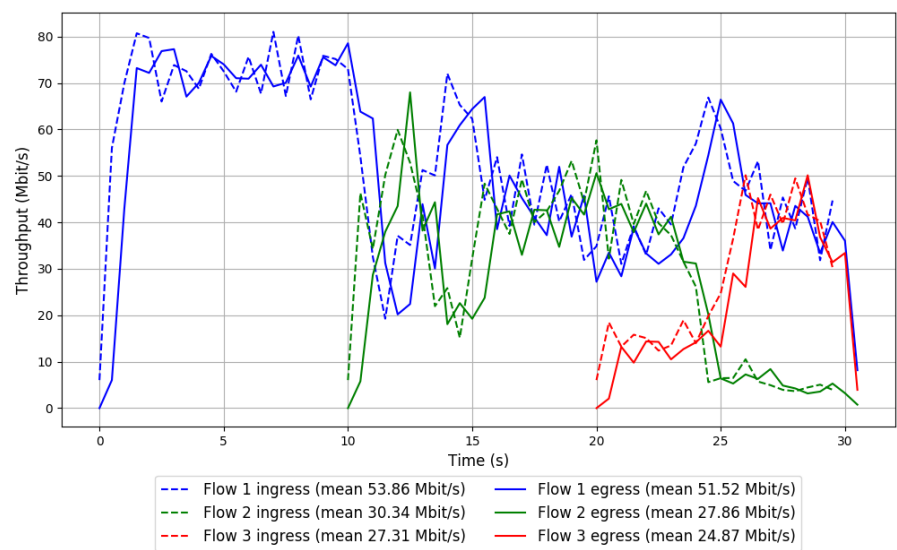
-- Flow 3:

Average throughput: 24.87 Mbit/s

95th percentile per-packet one-way delay: 115.976 ms

Loss rate: 8.71%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-07-03 19:41:41

End at: 2018-07-03 19:42:11

Local clock offset: -2.189 ms

Remote clock offset: 3.617 ms

Below is generated by plot.py at 2018-07-03 22:08:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.28 Mbit/s

95th percentile per-packet one-way delay: 115.978 ms

Loss rate: 5.46%

-- Flow 1:

Average throughput: 40.12 Mbit/s

95th percentile per-packet one-way delay: 112.367 ms

Loss rate: 4.10%

-- Flow 2:

Average throughput: 25.41 Mbit/s

95th percentile per-packet one-way delay: 119.354 ms

Loss rate: 9.79%

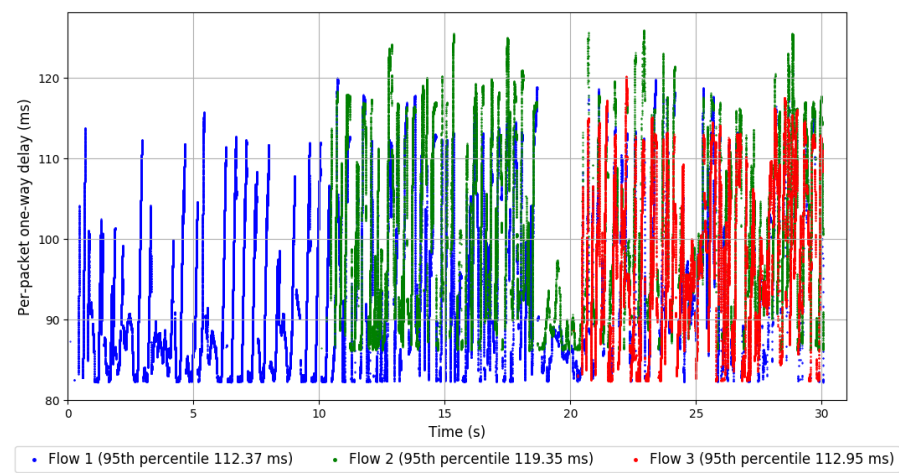
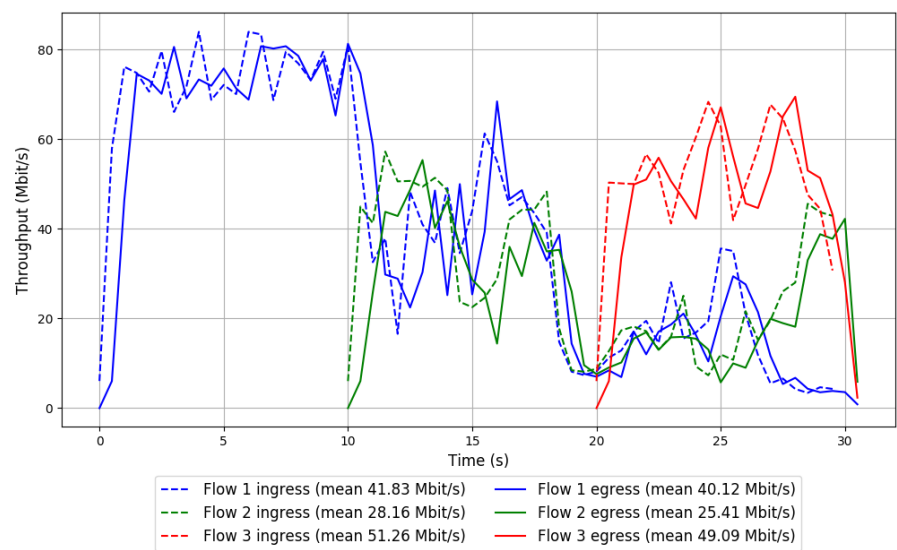
-- Flow 3:

Average throughput: 49.09 Mbit/s

95th percentile per-packet one-way delay: 112.948 ms

Loss rate: 4.03%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-07-03 20:02:45

End at: 2018-07-03 20:03:15

Local clock offset: -2.185 ms

Remote clock offset: 2.749 ms

Below is generated by plot.py at 2018-07-03 22:08:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.58 Mbit/s

95th percentile per-packet one-way delay: 116.229 ms

Loss rate: 5.33%

-- Flow 1:

Average throughput: 46.61 Mbit/s

95th percentile per-packet one-way delay: 111.106 ms

Loss rate: 4.09%

-- Flow 2:

Average throughput: 41.25 Mbit/s

95th percentile per-packet one-way delay: 119.332 ms

Loss rate: 6.26%

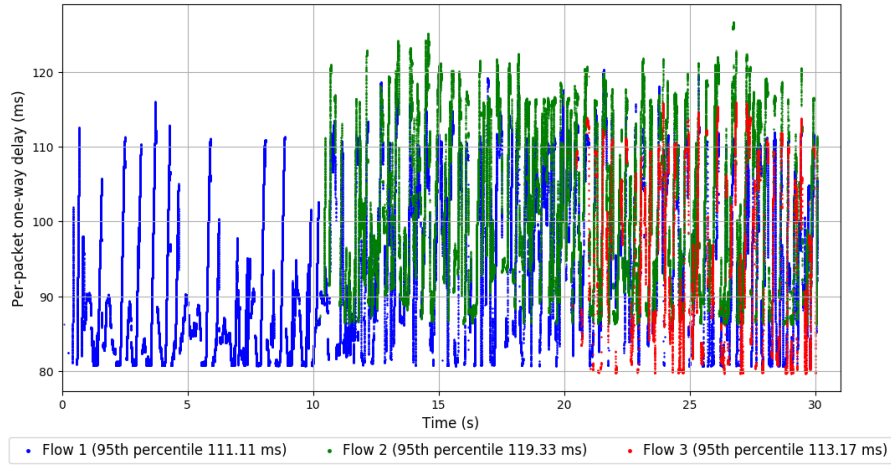
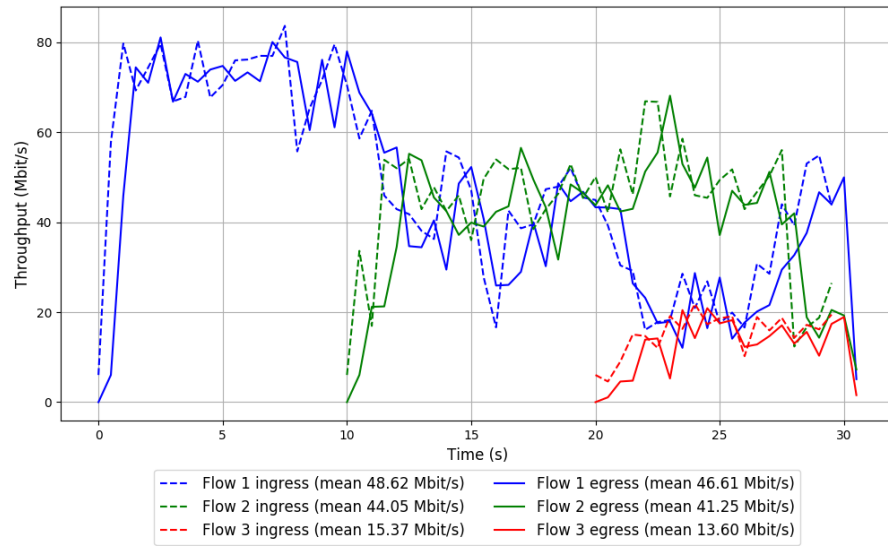
-- Flow 3:

Average throughput: 13.60 Mbit/s

95th percentile per-packet one-way delay: 113.172 ms

Loss rate: 11.78%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-07-03 20:23:43

End at: 2018-07-03 20:24:14

Local clock offset: -2.595 ms

Remote clock offset: 4.814 ms

Below is generated by plot.py at 2018-07-03 22:08:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.79 Mbit/s

95th percentile per-packet one-way delay: 117.240 ms

Loss rate: 4.25%

-- Flow 1:

Average throughput: 52.81 Mbit/s

95th percentile per-packet one-way delay: 112.841 ms

Loss rate: 2.97%

-- Flow 2:

Average throughput: 29.30 Mbit/s

95th percentile per-packet one-way delay: 122.461 ms

Loss rate: 5.93%

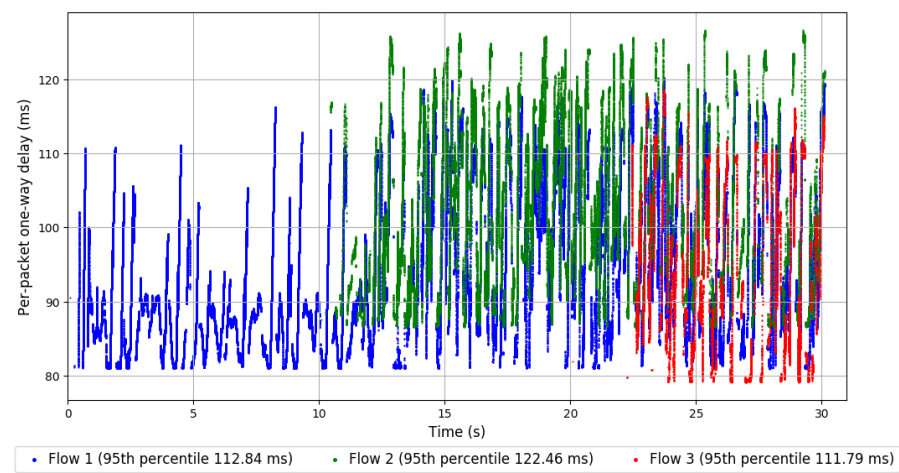
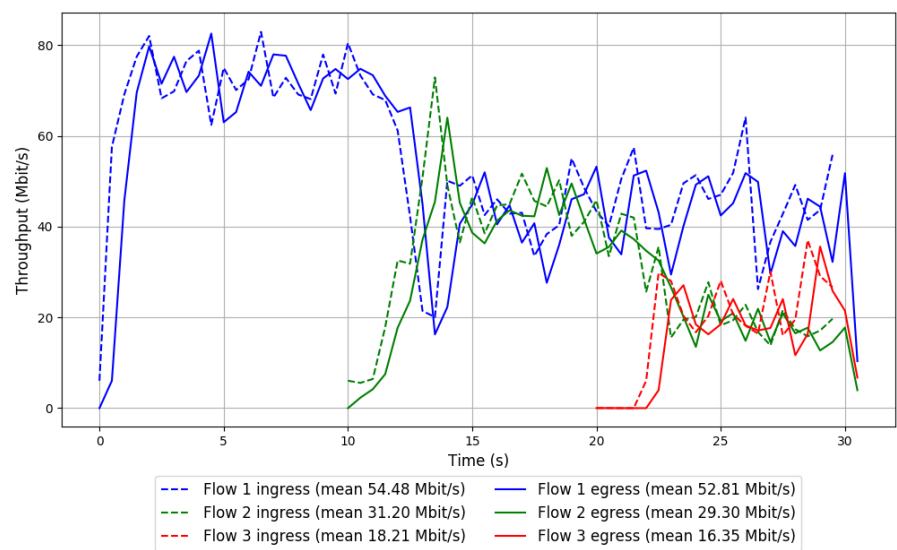
-- Flow 3:

Average throughput: 16.35 Mbit/s

95th percentile per-packet one-way delay: 111.791 ms

Loss rate: 9.96%

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

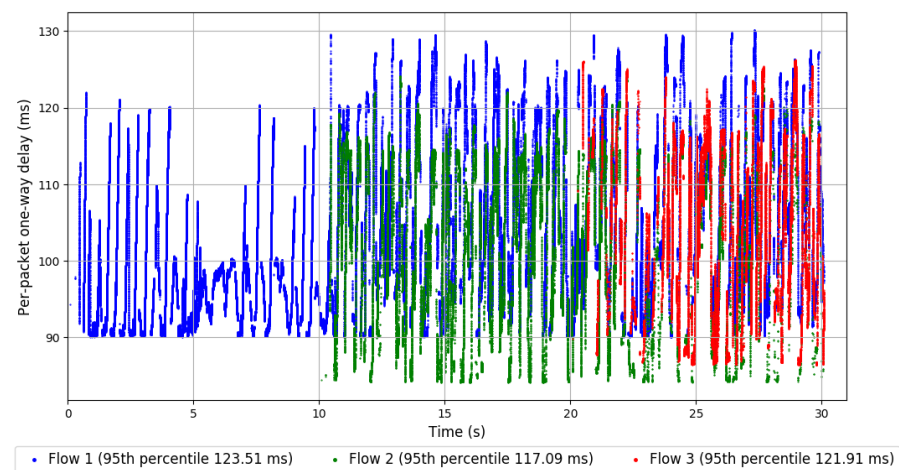
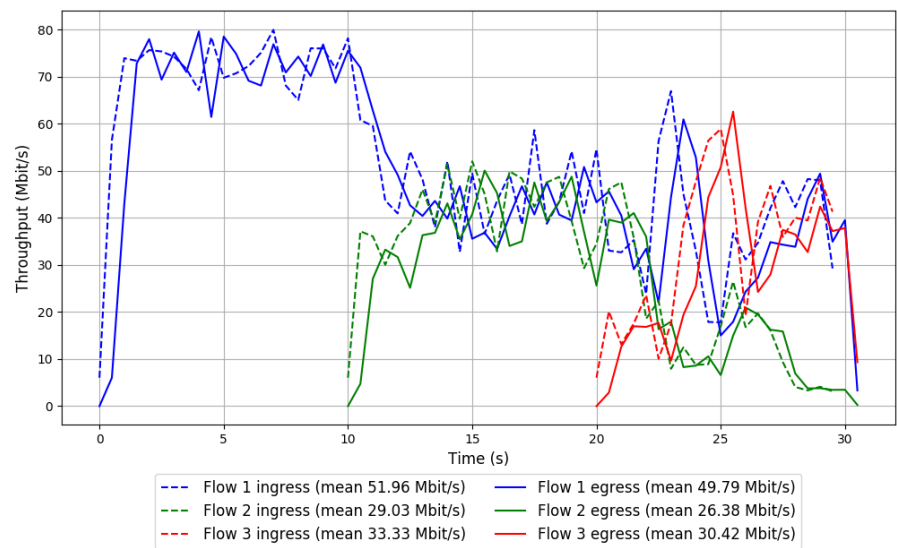


Run 7: Statistics of TaoVA-100x

Start at: 2018-07-03 20:44:50
End at: 2018-07-03 20:45:20
Local clock offset: -2.893 ms
Remote clock offset: 10.748 ms

Below is generated by plot.py at 2018-07-03 22:08:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.48 Mbit/s
95th percentile per-packet one-way delay: 122.244 ms
Loss rate: 5.94%
-- Flow 1:
Average throughput: 49.79 Mbit/s
95th percentile per-packet one-way delay: 123.514 ms
Loss rate: 4.17%
-- Flow 2:
Average throughput: 26.38 Mbit/s
95th percentile per-packet one-way delay: 117.092 ms
Loss rate: 9.11%
-- Flow 3:
Average throughput: 30.42 Mbit/s
95th percentile per-packet one-way delay: 121.910 ms
Loss rate: 8.68%

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

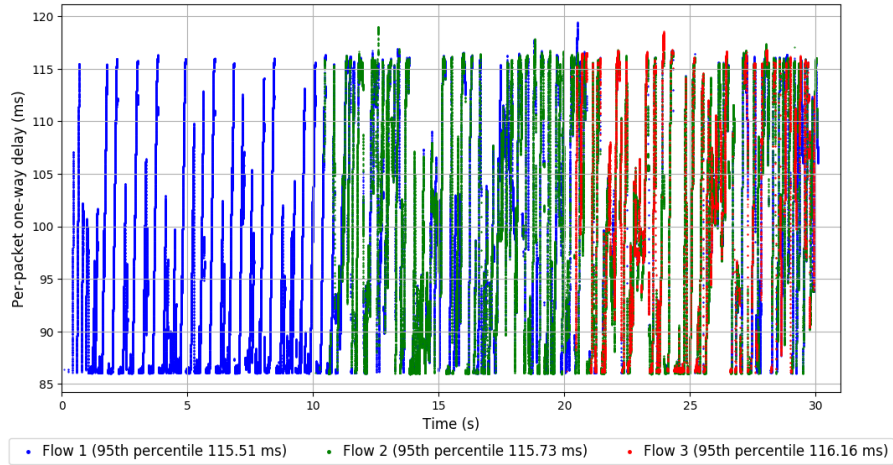
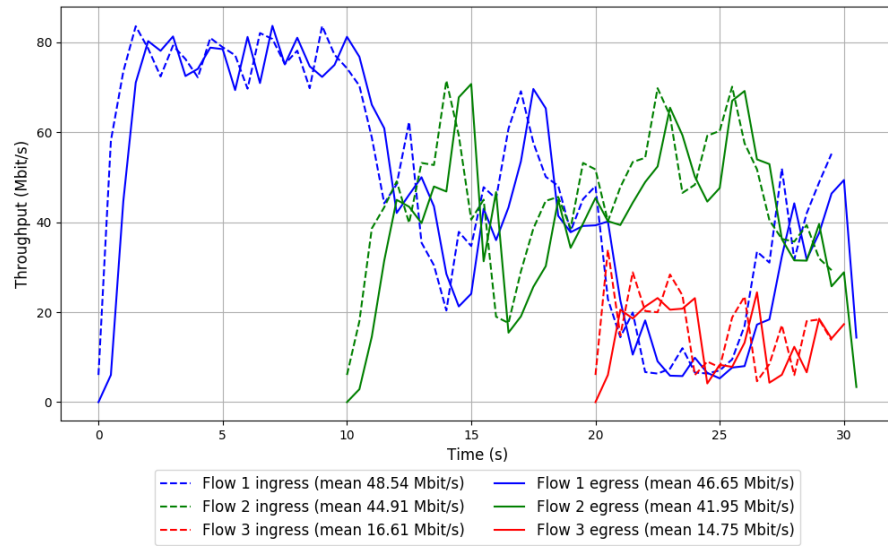


Run 8: Statistics of TaoVA-100x

Start at: 2018-07-03 21:05:57
End at: 2018-07-03 21:06:27
Local clock offset: -3.286 ms
Remote clock offset: 11.178 ms

Below is generated by plot.py at 2018-07-03 22:08:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.42 Mbit/s
95th percentile per-packet one-way delay: 115.639 ms
Loss rate: 5.25%
-- Flow 1:
Average throughput: 46.65 Mbit/s
95th percentile per-packet one-way delay: 115.511 ms
Loss rate: 3.85%
-- Flow 2:
Average throughput: 41.95 Mbit/s
95th percentile per-packet one-way delay: 115.727 ms
Loss rate: 6.47%
-- Flow 3:
Average throughput: 14.75 Mbit/s
95th percentile per-packet one-way delay: 116.162 ms
Loss rate: 11.01%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-07-03 21:27:06

End at: 2018-07-03 21:27:36

Local clock offset: -2.101 ms

Remote clock offset: 3.749 ms

Below is generated by plot.py at 2018-07-03 22:09:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.23 Mbit/s

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

Loss rate: 6.10%

-- Flow 1:

Average throughput: 42.05 Mbit/s

95th percentile per-packet one-way delay: 115.723 ms

Loss rate: 5.03%

-- Flow 2:

Average throughput: 45.10 Mbit/s

95th percentile per-packet one-way delay: 110.961 ms

Loss rate: 6.54%

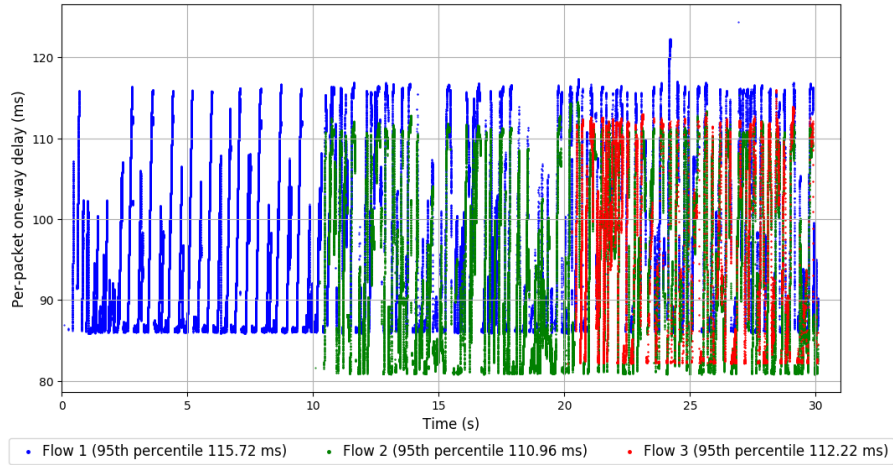
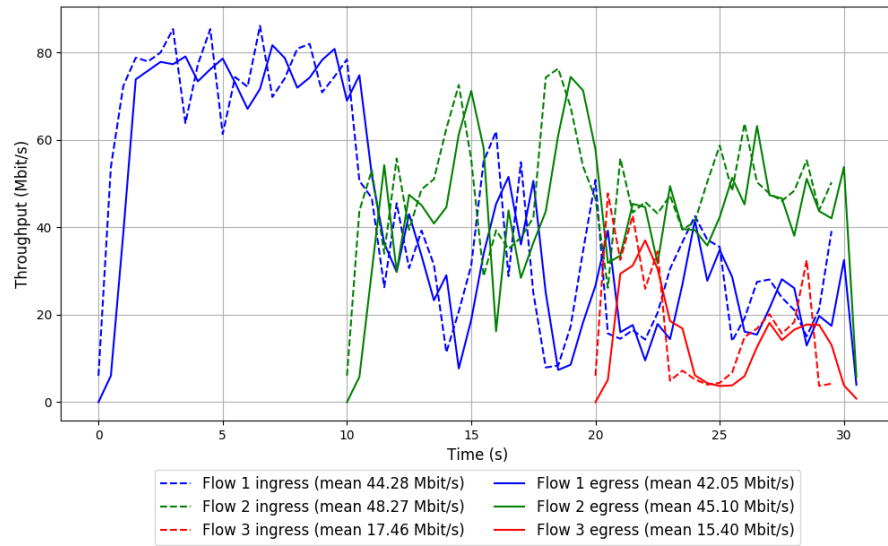
-- Flow 3:

Average throughput: 15.40 Mbit/s

95th percentile per-packet one-way delay: 112.219 ms

Loss rate: 11.77%

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

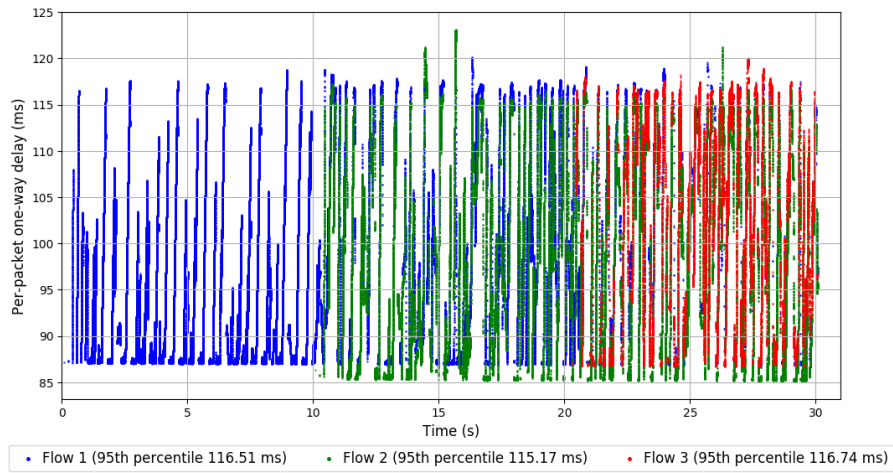
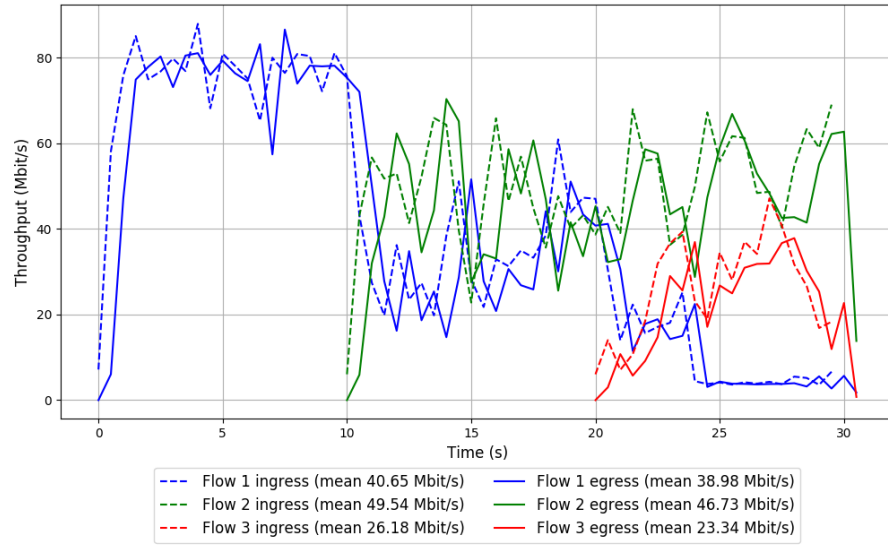


Run 10: Statistics of TaoVA-100x

Start at: 2018-07-03 21:48:20
End at: 2018-07-03 21:48:50
Local clock offset: -2.51 ms
Remote clock offset: 12.853 ms

Below is generated by plot.py at 2018-07-03 22:09:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.85 Mbit/s
95th percentile per-packet one-way delay: 116.261 ms
Loss rate: 5.43%
-- Flow 1:
Average throughput: 38.98 Mbit/s
95th percentile per-packet one-way delay: 116.513 ms
Loss rate: 4.08%
-- Flow 2:
Average throughput: 46.73 Mbit/s
95th percentile per-packet one-way delay: 115.171 ms
Loss rate: 5.63%
-- Flow 3:
Average throughput: 23.34 Mbit/s
95th percentile per-packet one-way delay: 116.742 ms
Loss rate: 11.02%

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

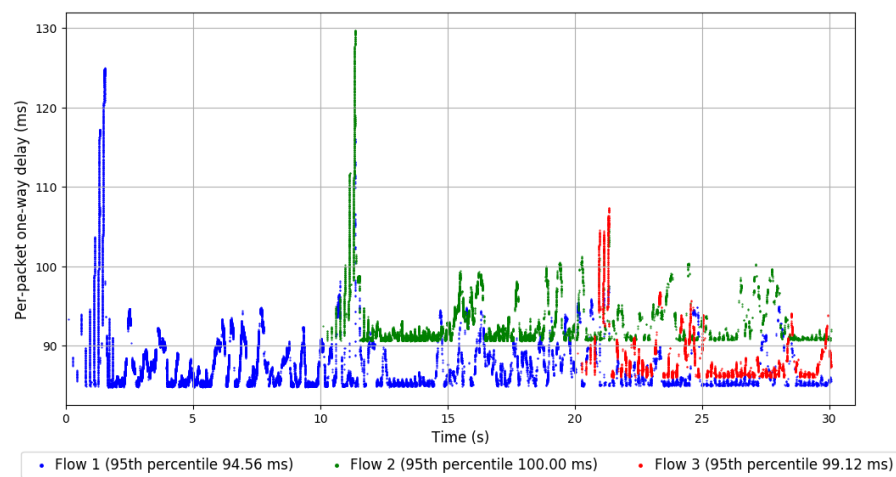
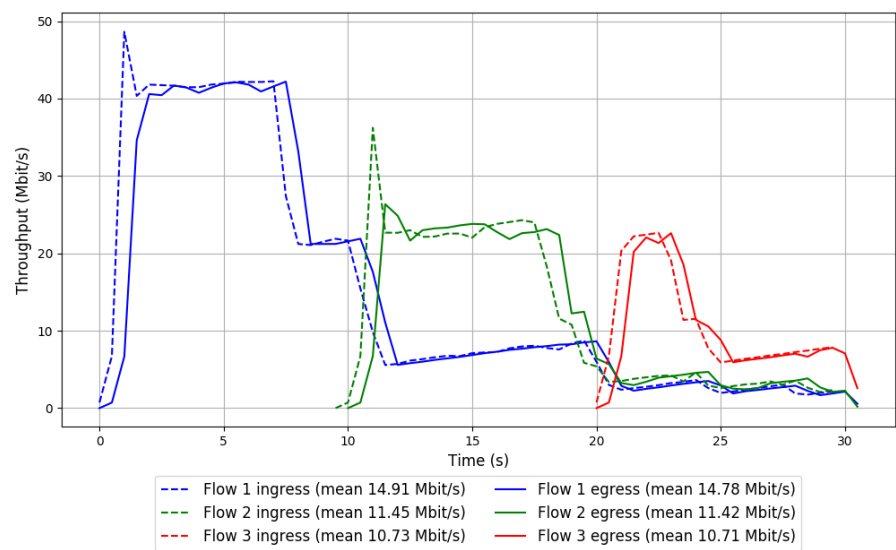


Run 1: Statistics of TCP Vegas

Start at: 2018-07-03 18:23:26
End at: 2018-07-03 18:23:56
Local clock offset: -2.001 ms
Remote clock offset: 14.458 ms

Below is generated by plot.py at 2018-07-03 22:09:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 25.94 Mbit/s
95th percentile per-packet one-way delay: 98.534 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 14.78 Mbit/s
95th percentile per-packet one-way delay: 94.565 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 11.42 Mbit/s
95th percentile per-packet one-way delay: 100.002 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 10.71 Mbit/s
95th percentile per-packet one-way delay: 99.117 ms
Loss rate: 0.18%

Run 1: Report of TCP Vegas — Data Link

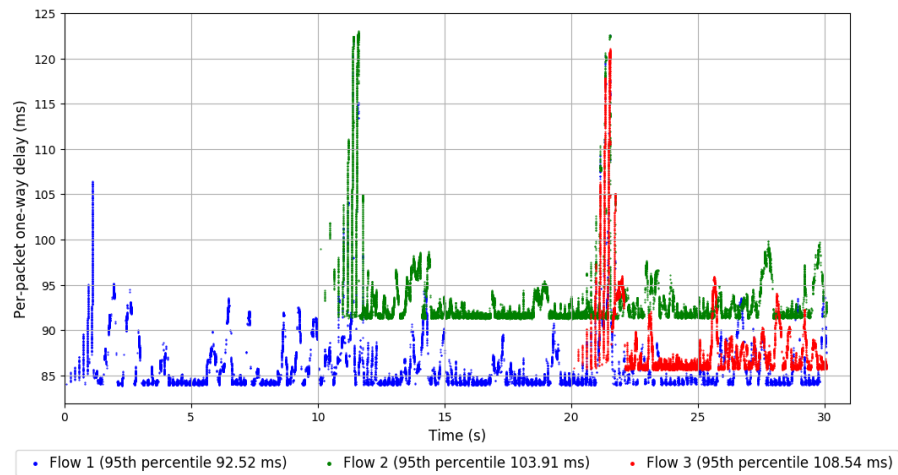
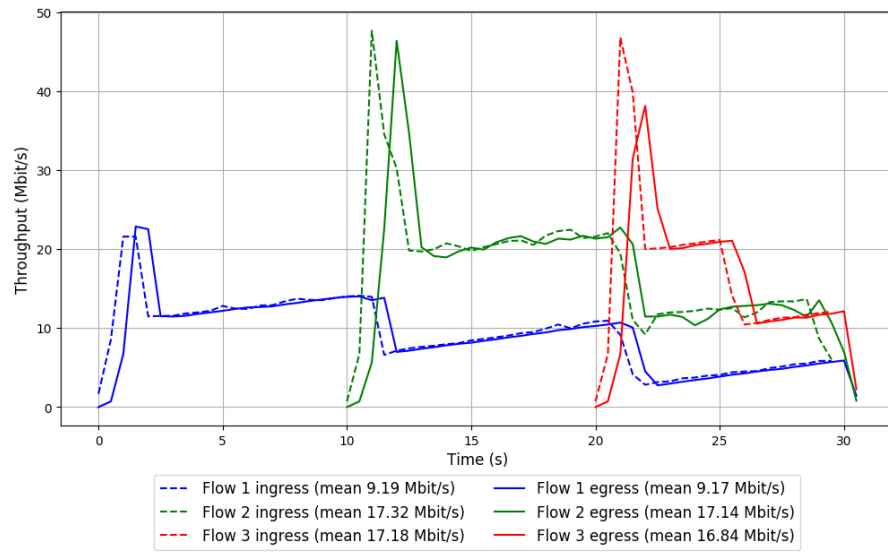


Run 2: Statistics of TCP Vegas

Start at: 2018-07-03 18:44:35
End at: 2018-07-03 18:45:05
Local clock offset: -1.854 ms
Remote clock offset: 12.448 ms

Below is generated by plot.py at 2018-07-03 22:09:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 26.18 Mbit/s
95th percentile per-packet one-way delay: 99.613 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 9.17 Mbit/s
95th percentile per-packet one-way delay: 92.522 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 17.14 Mbit/s
95th percentile per-packet one-way delay: 103.910 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 16.84 Mbit/s
95th percentile per-packet one-way delay: 108.541 ms
Loss rate: 2.01%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-07-03 19:05:43

End at: 2018-07-03 19:06:13

Local clock offset: -1.935 ms

Remote clock offset: 8.661 ms

Below is generated by plot.py at 2018-07-03 22:09:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.02 Mbit/s

95th percentile per-packet one-way delay: 110.787 ms

Loss rate: 2.40%

-- Flow 1:

Average throughput: 6.37 Mbit/s

95th percentile per-packet one-way delay: 112.735 ms

Loss rate: 2.06%

-- Flow 2:

Average throughput: 9.63 Mbit/s

95th percentile per-packet one-way delay: 105.659 ms

Loss rate: 2.00%

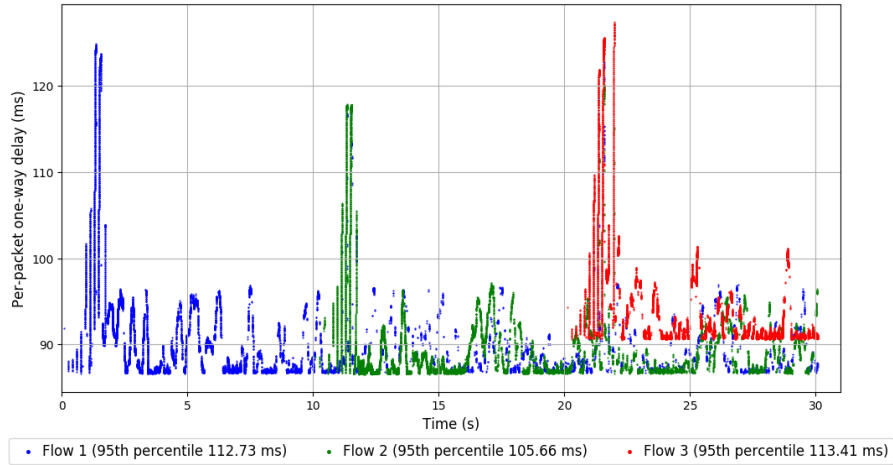
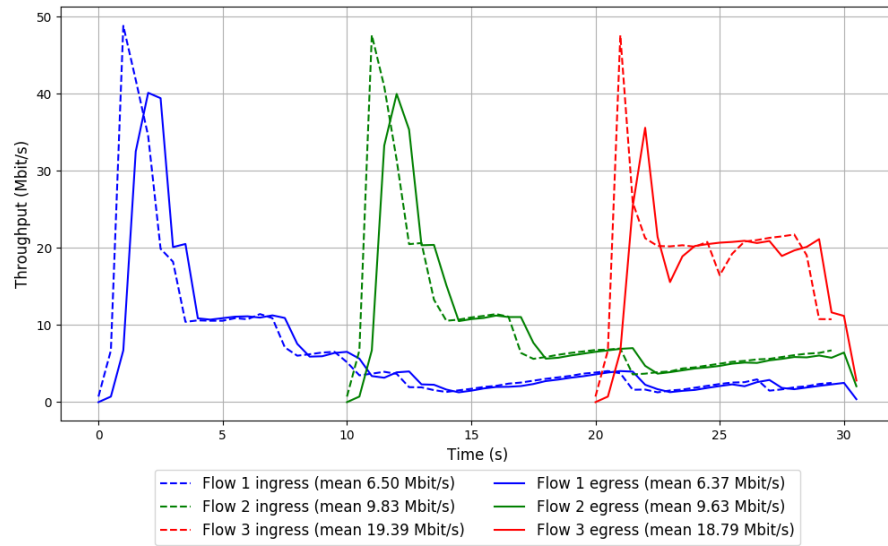
-- Flow 3:

Average throughput: 18.79 Mbit/s

95th percentile per-packet one-way delay: 113.405 ms

Loss rate: 3.15%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-07-03 19:26:52

End at: 2018-07-03 19:27:22

Local clock offset: -2.174 ms

Remote clock offset: 5.937 ms

Below is generated by plot.py at 2018-07-03 22:09:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.92 Mbit/s

95th percentile per-packet one-way delay: 96.122 ms

Loss rate: 1.20%

-- Flow 1:

Average throughput: 3.27 Mbit/s

95th percentile per-packet one-way delay: 92.853 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 12.54 Mbit/s

95th percentile per-packet one-way delay: 101.706 ms

Loss rate: 1.76%

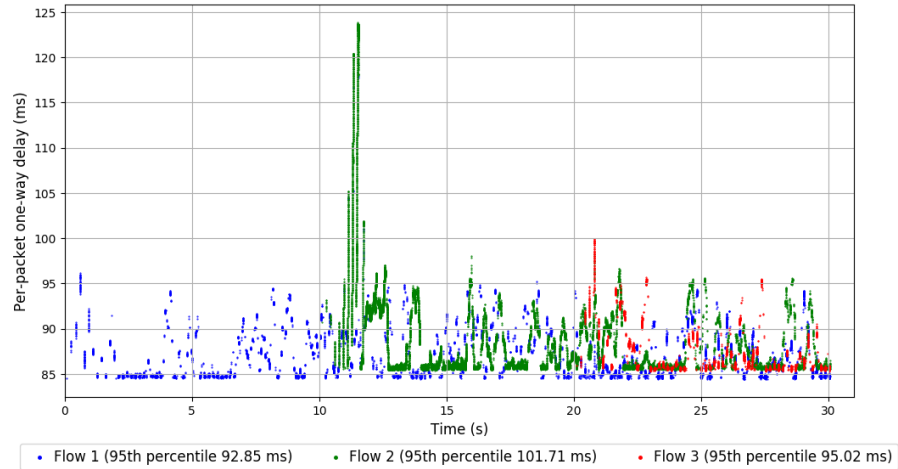
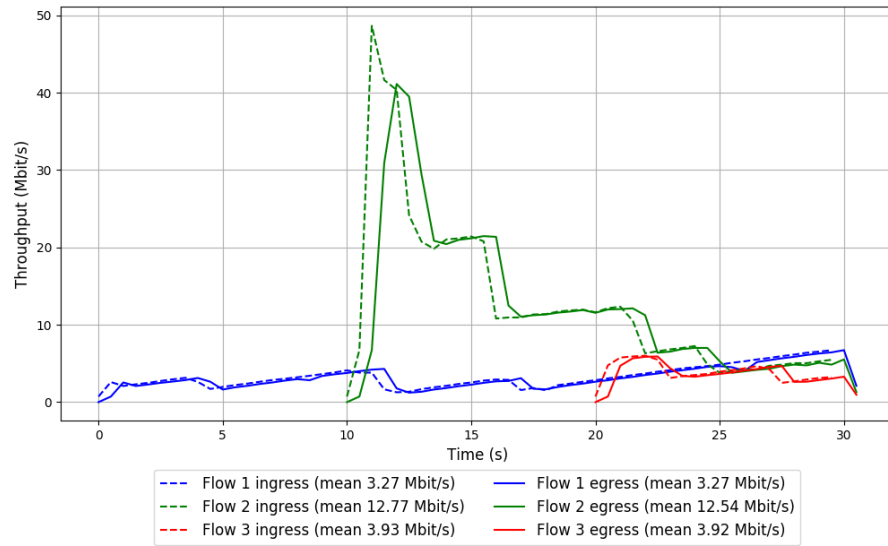
-- Flow 3:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 95.024 ms

Loss rate: 0.25%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-07-03 19:47:56

End at: 2018-07-03 19:48:26

Local clock offset: -2.202 ms

Remote clock offset: 7.097 ms

Below is generated by plot.py at 2018-07-03 22:09:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.04 Mbit/s

95th percentile per-packet one-way delay: 99.123 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 3.61 Mbit/s

95th percentile per-packet one-way delay: 95.400 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 15.70 Mbit/s

95th percentile per-packet one-way delay: 98.216 ms

Loss rate: 1.33%

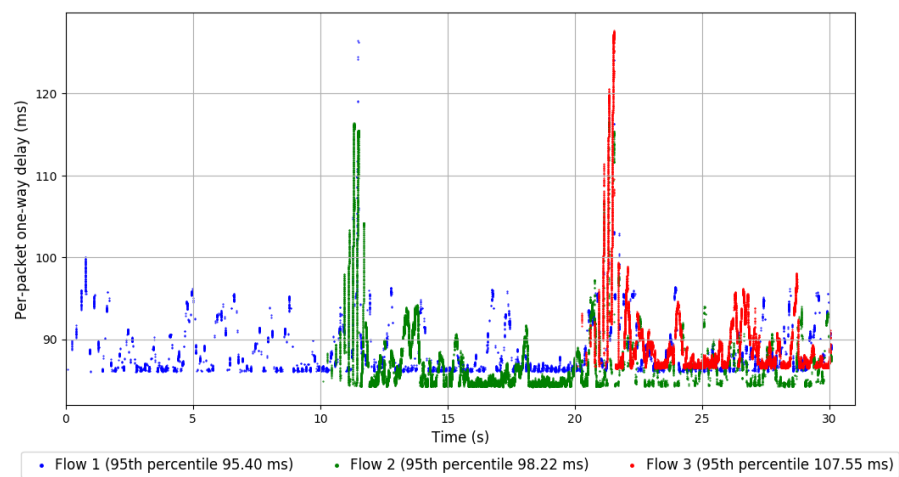
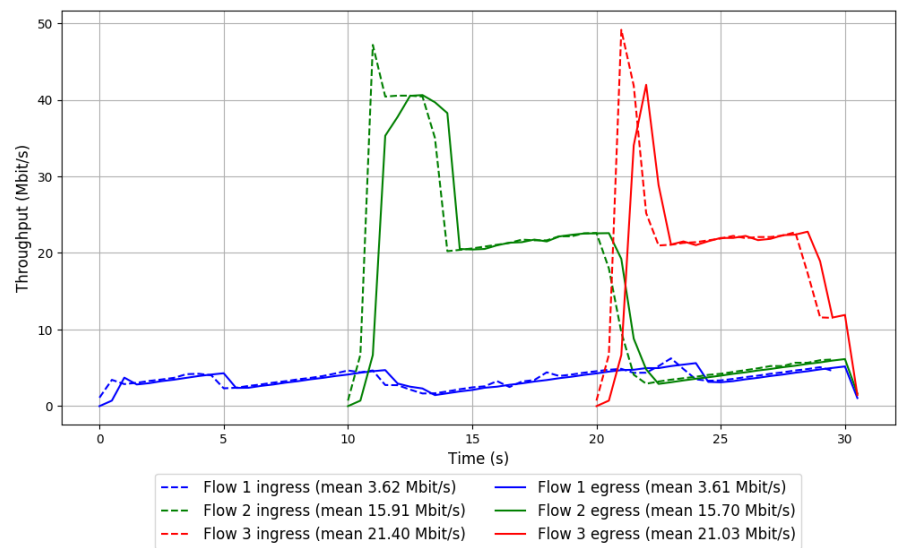
-- Flow 3:

Average throughput: 21.03 Mbit/s

95th percentile per-packet one-way delay: 107.550 ms

Loss rate: 1.71%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-07-03 20:09:01

End at: 2018-07-03 20:09:31

Local clock offset: -2.199 ms

Remote clock offset: 5.039 ms

Below is generated by plot.py at 2018-07-03 22:09:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.13 Mbit/s

95th percentile per-packet one-way delay: 97.707 ms

Loss rate: 1.51%

-- Flow 1:

Average throughput: 4.18 Mbit/s

95th percentile per-packet one-way delay: 92.886 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 7.09 Mbit/s

95th percentile per-packet one-way delay: 107.103 ms

Loss rate: 2.75%

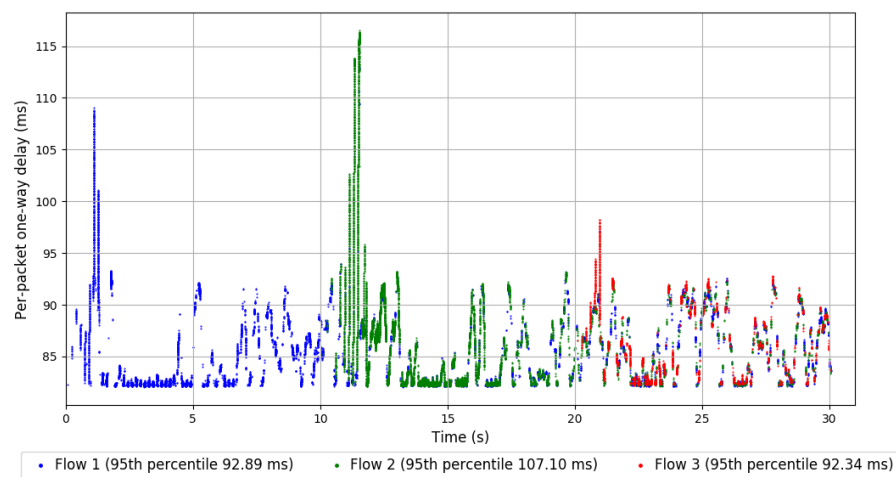
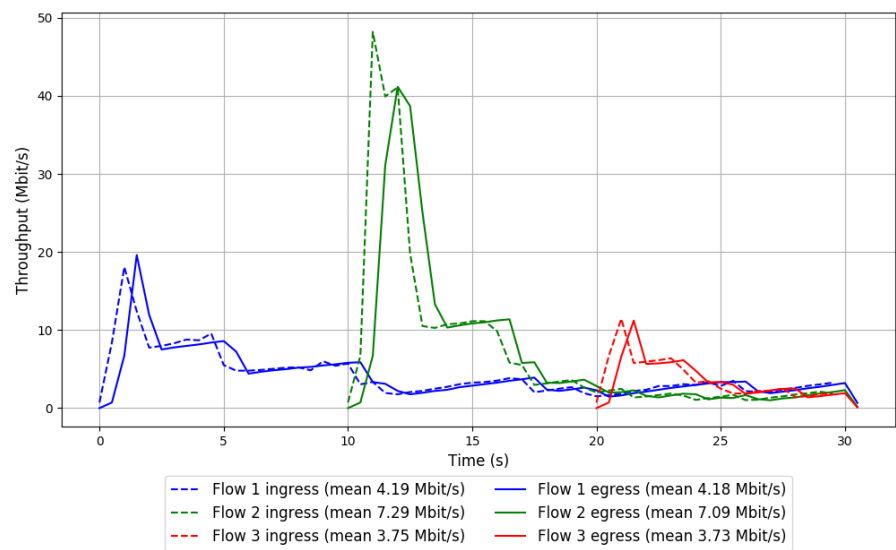
-- Flow 3:

Average throughput: 3.73 Mbit/s

95th percentile per-packet one-way delay: 92.343 ms

Loss rate: 0.51%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-03 20:30:00

End at: 2018-07-03 20:30:30

Local clock offset: -2.692 ms

Remote clock offset: 8.936 ms

Below is generated by plot.py at 2018-07-03 22:09:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.60 Mbit/s

95th percentile per-packet one-way delay: 99.893 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 4.57 Mbit/s

95th percentile per-packet one-way delay: 94.987 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 2.56 Mbit/s

95th percentile per-packet one-way delay: 94.784 ms

Loss rate: 0.40%

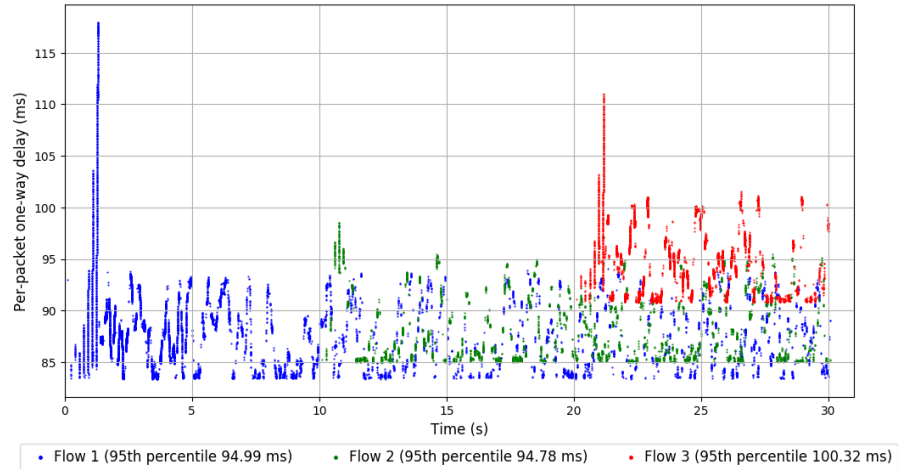
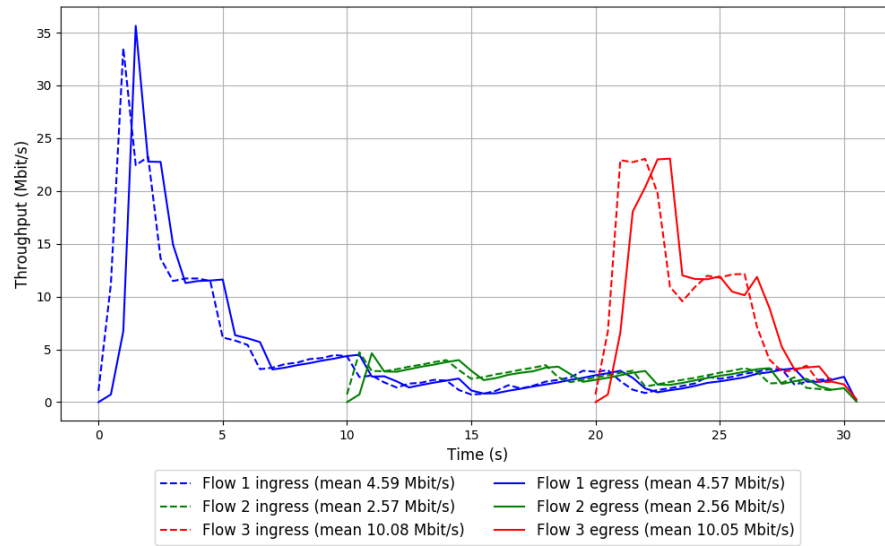
-- Flow 3:

Average throughput: 10.05 Mbit/s

95th percentile per-packet one-way delay: 100.320 ms

Loss rate: 0.16%

Run 7: Report of TCP Vegas — Data Link

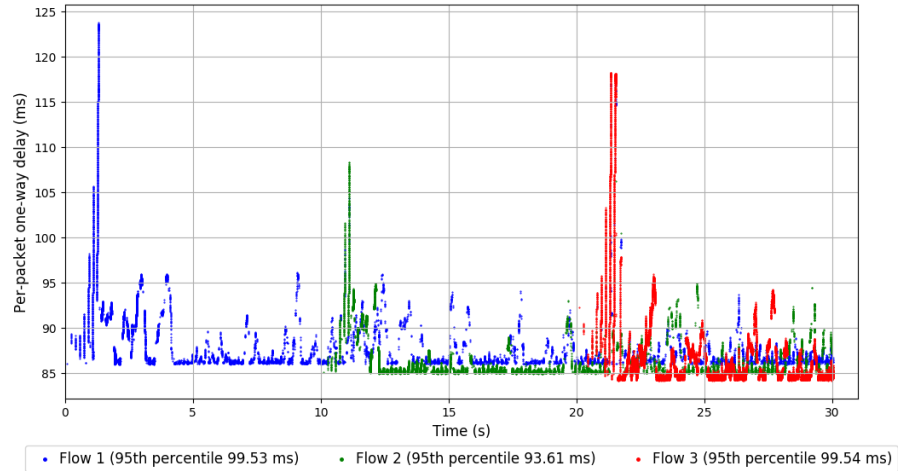
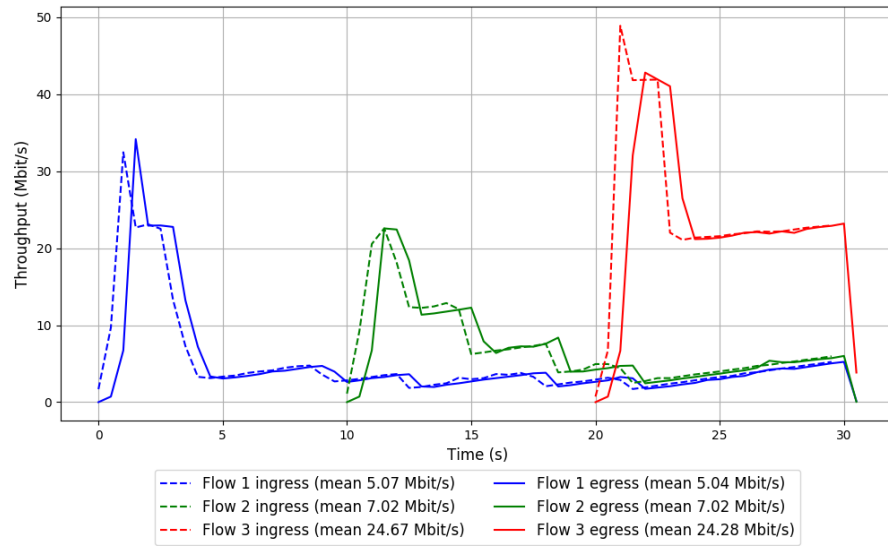


Run 8: Statistics of TCP Vegas

Start at: 2018-07-03 20:51:06
End at: 2018-07-03 20:51:36
Local clock offset: -3.034 ms
Remote clock offset: 10.947 ms

Below is generated by plot.py at 2018-07-03 22:09:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 17.76 Mbit/s
95th percentile per-packet one-way delay: 96.535 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 5.04 Mbit/s
95th percentile per-packet one-way delay: 99.532 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 7.02 Mbit/s
95th percentile per-packet one-way delay: 93.607 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 24.28 Mbit/s
95th percentile per-packet one-way delay: 99.540 ms
Loss rate: 1.64%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-07-03 21:12:14

End at: 2018-07-03 21:12:44

Local clock offset: -3.026 ms

Remote clock offset: 8.603 ms

Below is generated by plot.py at 2018-07-03 22:09:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.12 Mbit/s

95th percentile per-packet one-way delay: 93.293 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 16.21 Mbit/s

95th percentile per-packet one-way delay: 94.745 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 22.16 Mbit/s

95th percentile per-packet one-way delay: 93.829 ms

Loss rate: 0.84%

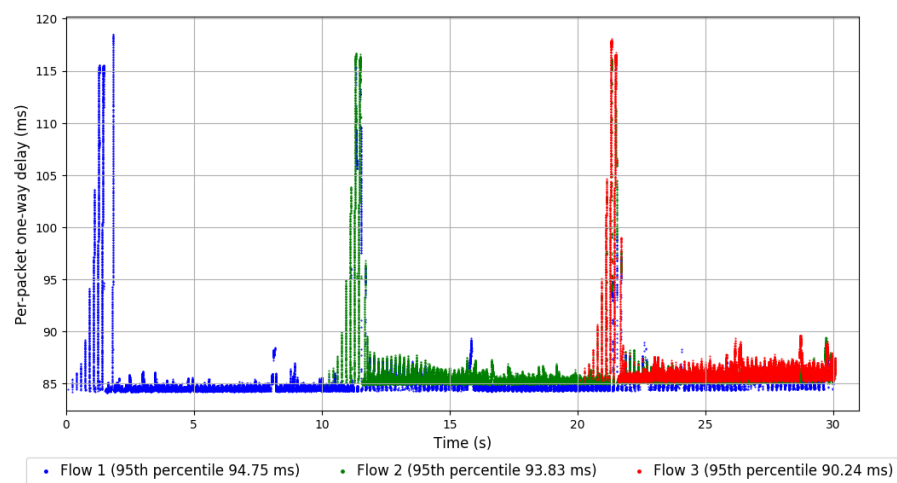
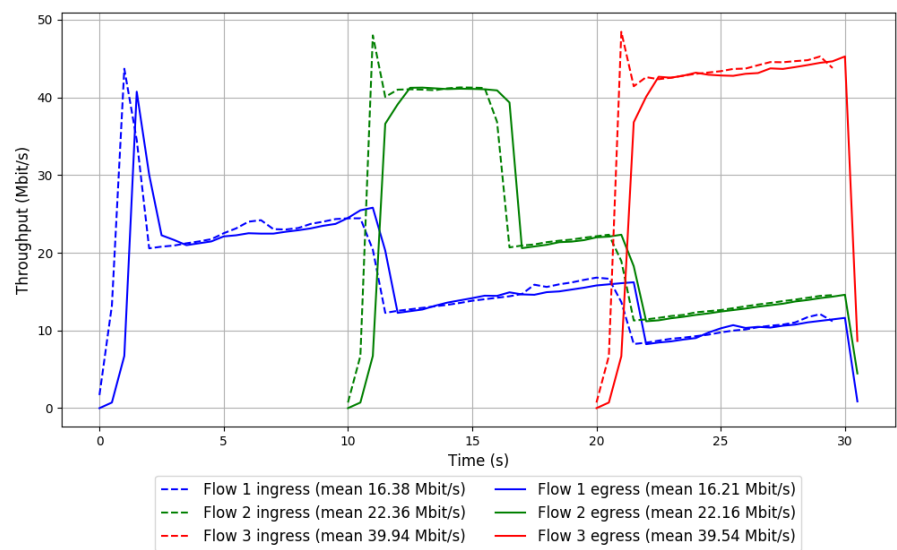
-- Flow 3:

Average throughput: 39.54 Mbit/s

95th percentile per-packet one-way delay: 90.240 ms

Loss rate: 0.97%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-03 21:33:24

End at: 2018-07-03 21:33:54

Local clock offset: -2.022 ms

Remote clock offset: 6.007 ms

Below is generated by plot.py at 2018-07-03 22:09:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.58 Mbit/s

95th percentile per-packet one-way delay: 96.725 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 24.84 Mbit/s

95th percentile per-packet one-way delay: 97.531 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 31.35 Mbit/s

95th percentile per-packet one-way delay: 93.257 ms

Loss rate: 0.60%

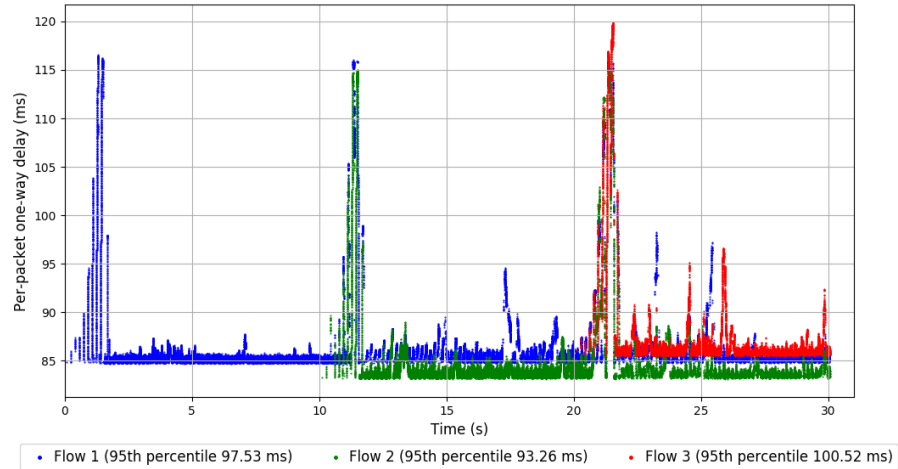
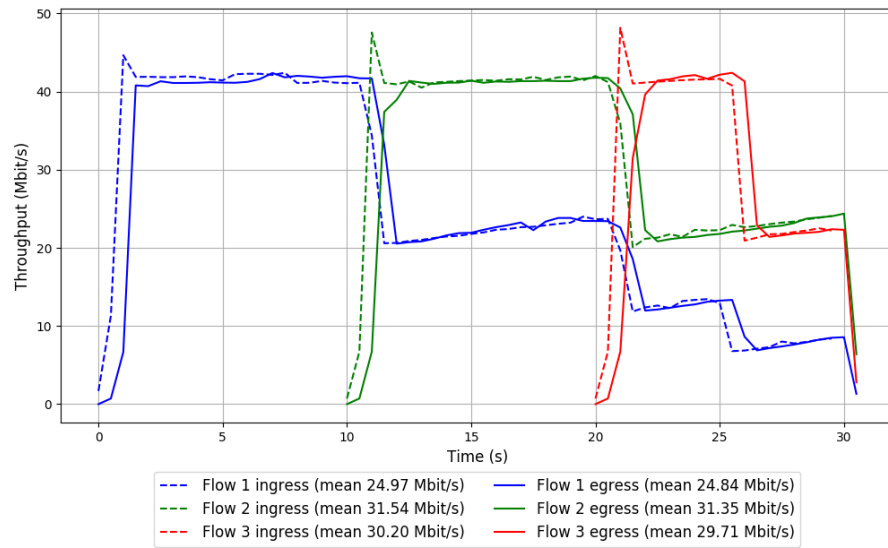
-- Flow 3:

Average throughput: 29.71 Mbit/s

95th percentile per-packet one-way delay: 100.519 ms

Loss rate: 1.63%

Run 10: Report of TCP Vegas — Data Link

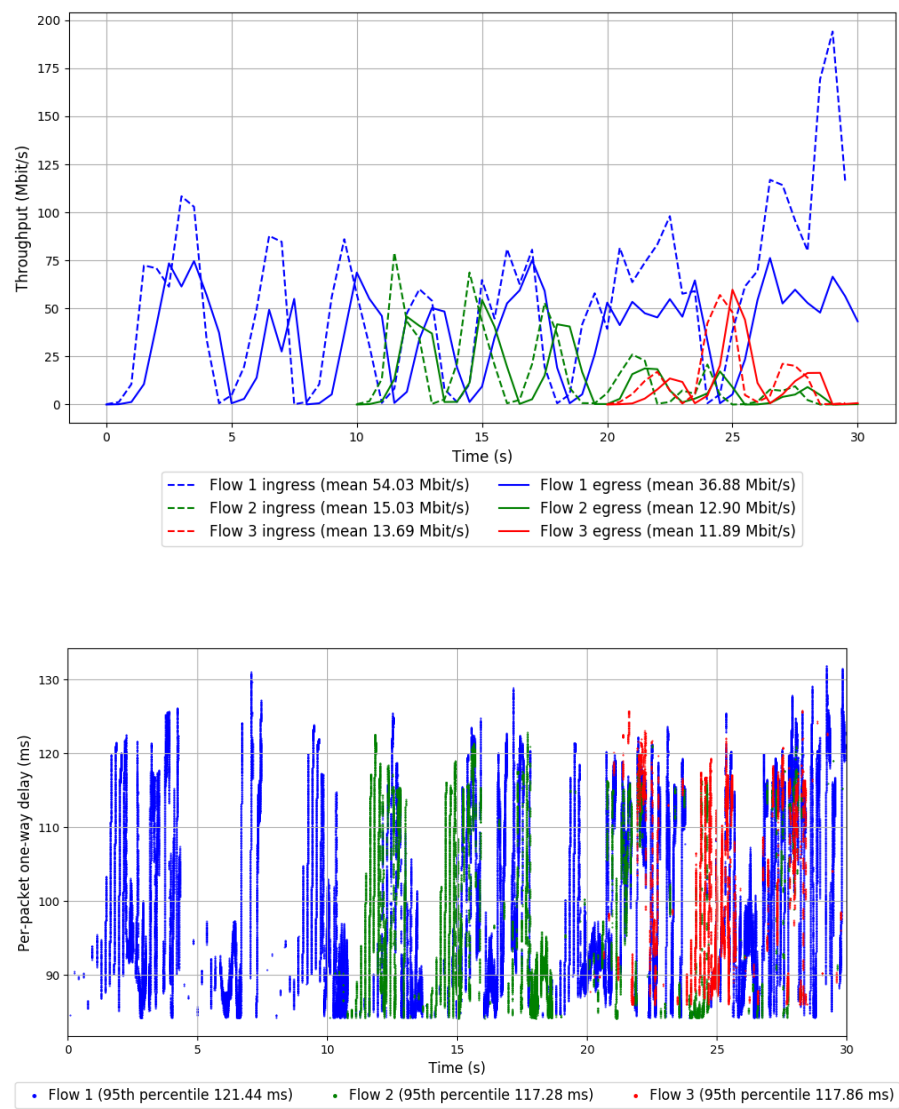


Run 1: Statistics of Verus

Start at: 2018-07-03 18:34:36
End at: 2018-07-03 18:35:06
Local clock offset: -1.821 ms
Remote clock offset: 13.006 ms

Below is generated by plot.py at 2018-07-03 22:09:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.27 Mbit/s
95th percentile per-packet one-way delay: 120.970 ms
Loss rate: 27.89%
-- Flow 1:
Average throughput: 36.88 Mbit/s
95th percentile per-packet one-way delay: 121.436 ms
Loss rate: 31.66%
-- Flow 2:
Average throughput: 12.90 Mbit/s
95th percentile per-packet one-way delay: 117.284 ms
Loss rate: 14.02%
-- Flow 3:
Average throughput: 11.89 Mbit/s
95th percentile per-packet one-way delay: 117.865 ms
Loss rate: 13.03%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-07-03 18:55:43

End at: 2018-07-03 18:56:13

Local clock offset: -1.944 ms

Remote clock offset: 7.134 ms

Below is generated by plot.py at 2018-07-03 22:09:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.11 Mbit/s

95th percentile per-packet one-way delay: 134.057 ms

Loss rate: 49.14%

-- Flow 1:

Average throughput: 26.32 Mbit/s

95th percentile per-packet one-way delay: 123.099 ms

Loss rate: 43.82%

-- Flow 2:

Average throughput: 16.55 Mbit/s

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

Loss rate: 14.43%

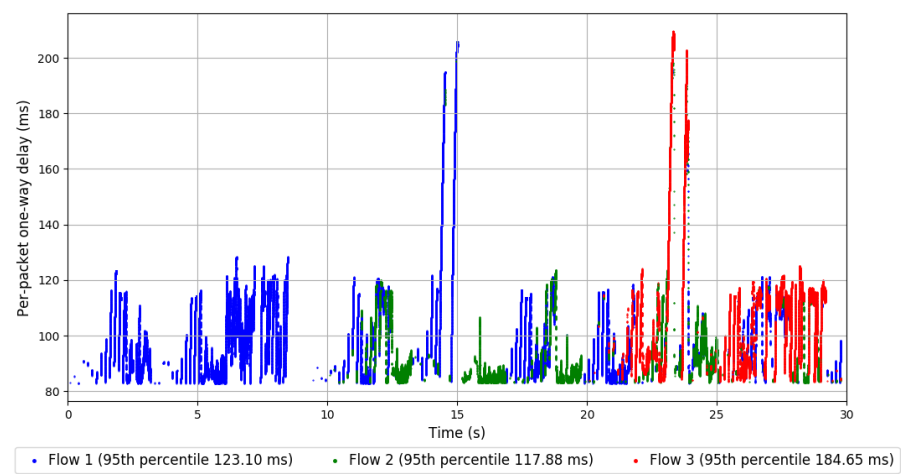
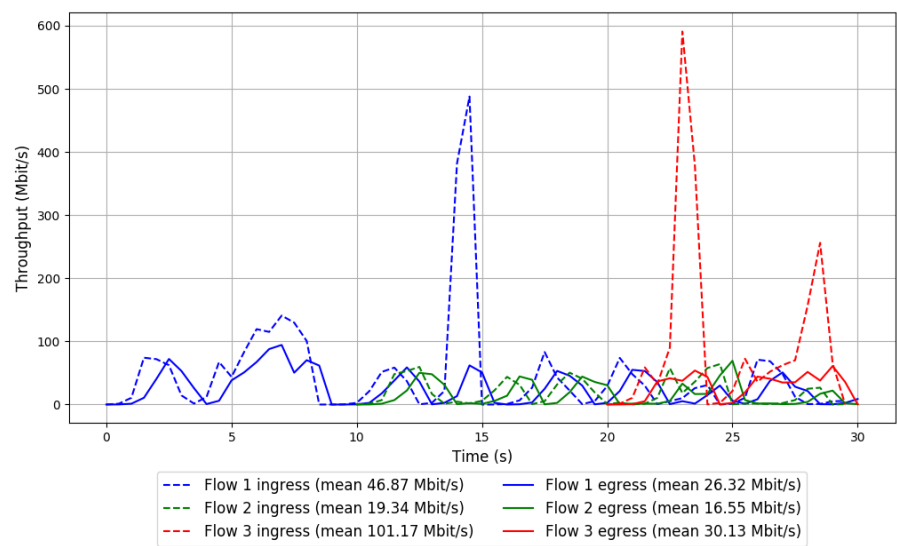
-- Flow 3:

Average throughput: 30.13 Mbit/s

95th percentile per-packet one-way delay: 184.649 ms

Loss rate: 70.21%

Run 2: Report of Verus — Data Link

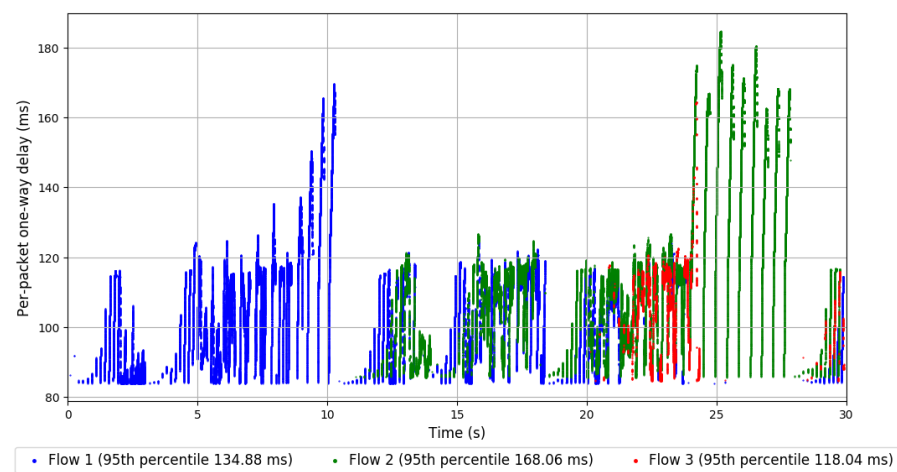
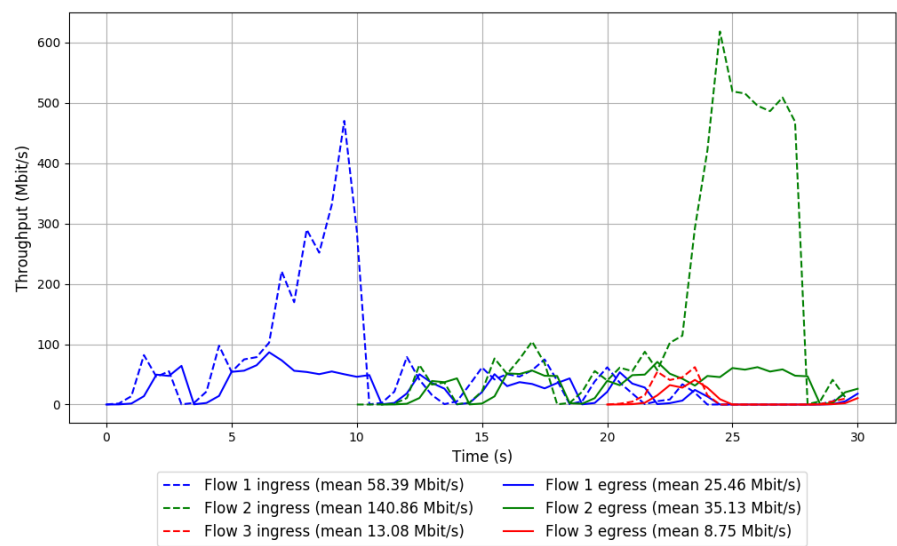


Run 3: Statistics of Verus

Start at: 2018-07-03 19:16:52
End at: 2018-07-03 19:17:22
Local clock offset: -2.079 ms
Remote clock offset: 6.4 ms

Below is generated by plot.py at 2018-07-03 22:09:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 50.28 Mbit/s
95th percentile per-packet one-way delay: 161.340 ms
Loss rate: 67.63%
-- Flow 1:
Average throughput: 25.46 Mbit/s
95th percentile per-packet one-way delay: 134.883 ms
Loss rate: 56.36%
-- Flow 2:
Average throughput: 35.13 Mbit/s
95th percentile per-packet one-way delay: 168.059 ms
Loss rate: 76.30%
-- Flow 3:
Average throughput: 8.75 Mbit/s
95th percentile per-packet one-way delay: 118.039 ms
Loss rate: 33.17%

Run 3: Report of Verus — Data Link

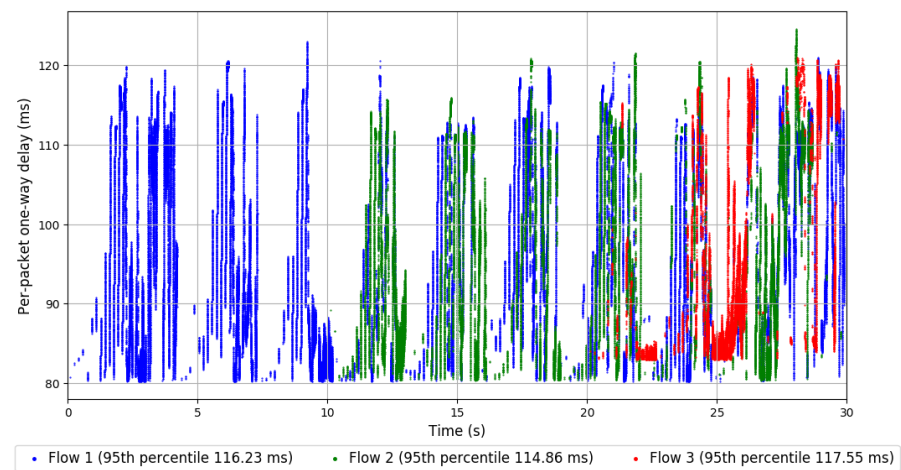
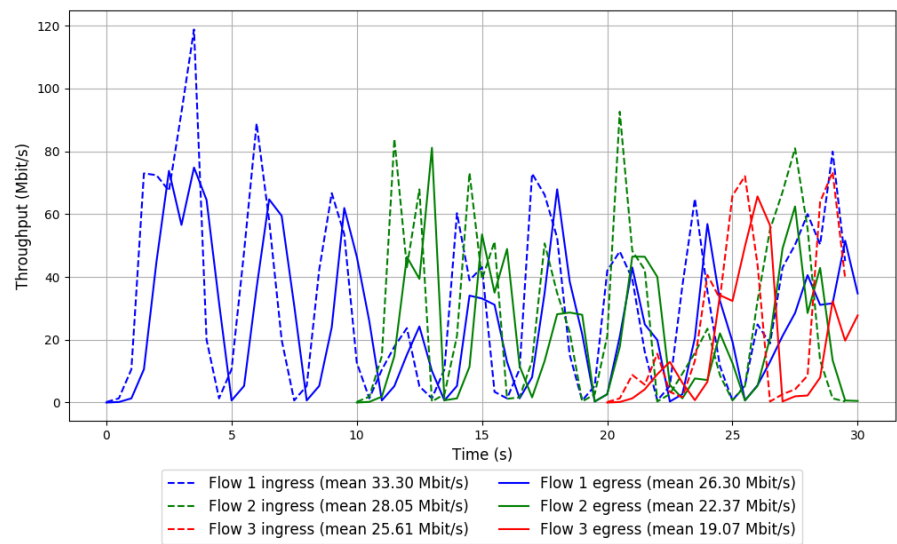


Run 4: Statistics of Verus

Start at: 2018-07-03 19:38:00
End at: 2018-07-03 19:38:30
Local clock offset: -2.188 ms
Remote clock offset: 3.133 ms

Below is generated by plot.py at 2018-07-03 22:09:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 47.29 Mbit/s
95th percentile per-packet one-way delay: 116.346 ms
Loss rate: 21.36%
-- Flow 1:
Average throughput: 26.30 Mbit/s
95th percentile per-packet one-way delay: 116.235 ms
Loss rate: 20.98%
-- Flow 2:
Average throughput: 22.37 Mbit/s
95th percentile per-packet one-way delay: 114.863 ms
Loss rate: 20.25%
-- Flow 3:
Average throughput: 19.07 Mbit/s
95th percentile per-packet one-way delay: 117.551 ms
Loss rate: 25.33%

Run 4: Report of Verus — Data Link

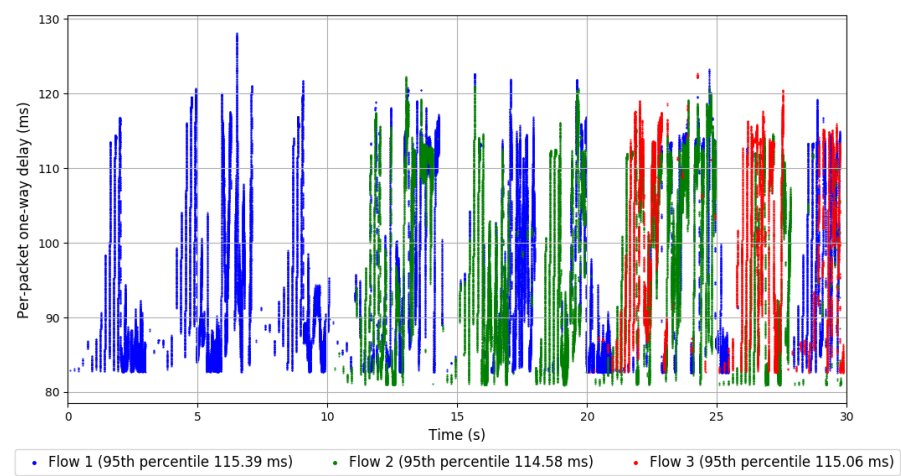
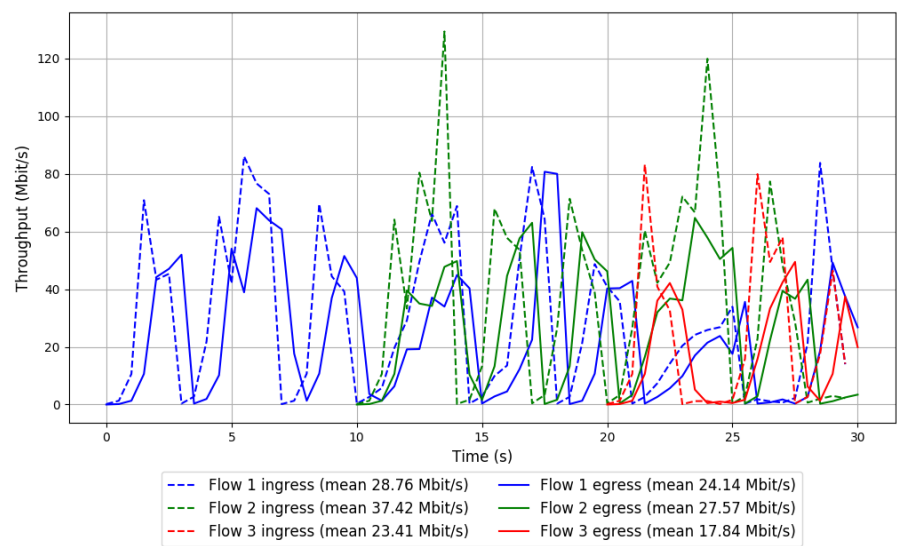


Run 5: Statistics of Verus

Start at: 2018-07-03 19:59:03
End at: 2018-07-03 19:59:33
Local clock offset: -2.266 ms
Remote clock offset: 2.88 ms

Below is generated by plot.py at 2018-07-03 22:09:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.07 Mbit/s
95th percentile per-packet one-way delay: 115.074 ms
Loss rate: 21.16%
-- Flow 1:
Average throughput: 24.14 Mbit/s
95th percentile per-packet one-way delay: 115.391 ms
Loss rate: 15.97%
-- Flow 2:
Average throughput: 27.57 Mbit/s
95th percentile per-packet one-way delay: 114.576 ms
Loss rate: 26.35%
-- Flow 3:
Average throughput: 17.84 Mbit/s
95th percentile per-packet one-way delay: 115.059 ms
Loss rate: 23.78%

Run 5: Report of Verus — Data Link

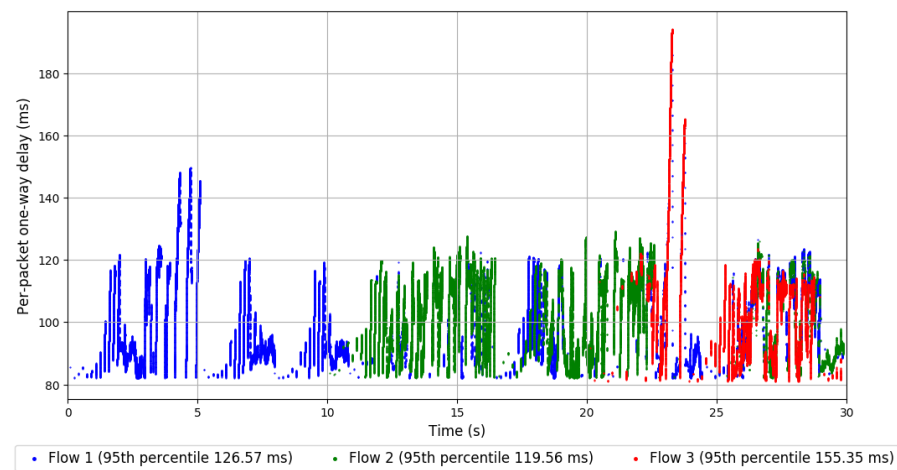
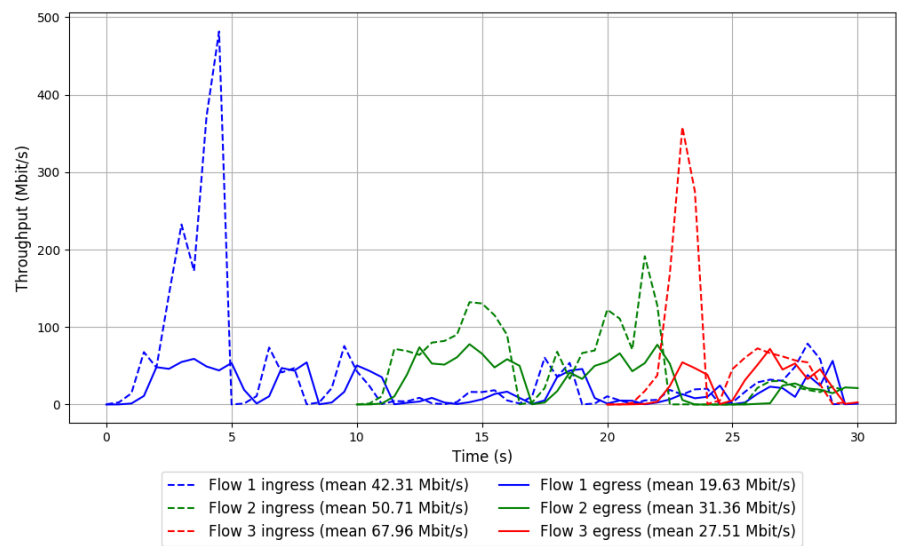


Run 6: Statistics of Verus

Start at: 2018-07-03 20:20:00
End at: 2018-07-03 20:20:30
Local clock offset: -2.601 ms
Remote clock offset: 5.897 ms

Below is generated by plot.py at 2018-07-03 22:10:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.33 Mbit/s
95th percentile per-packet one-way delay: 123.221 ms
Loss rate: 49.63%
-- Flow 1:
Average throughput: 19.63 Mbit/s
95th percentile per-packet one-way delay: 126.570 ms
Loss rate: 53.60%
-- Flow 2:
Average throughput: 31.36 Mbit/s
95th percentile per-packet one-way delay: 119.555 ms
Loss rate: 38.16%
-- Flow 3:
Average throughput: 27.51 Mbit/s
95th percentile per-packet one-way delay: 155.355 ms
Loss rate: 59.54%

Run 6: Report of Verus — Data Link

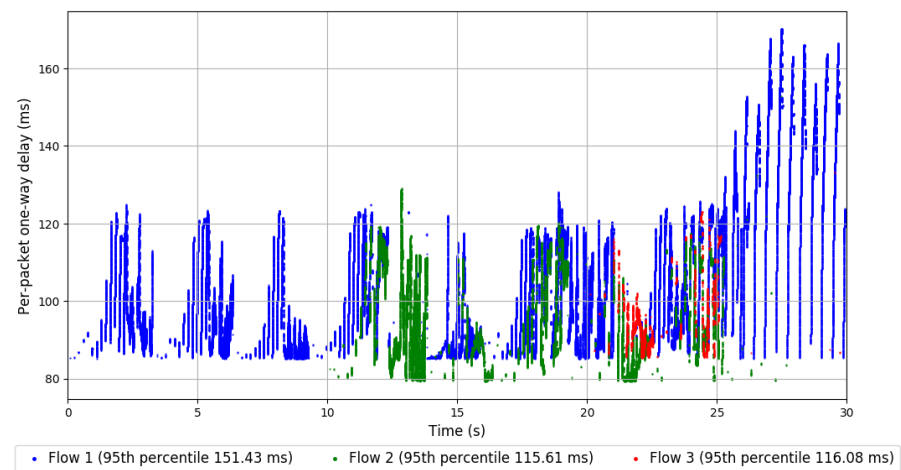
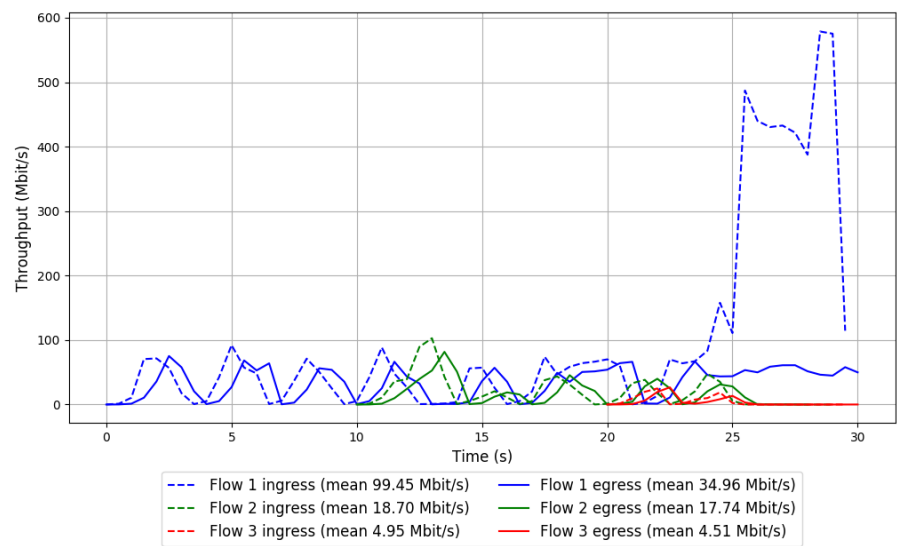


Run 7: Statistics of Verus

Start at: 2018-07-03 20:41:07
End at: 2018-07-03 20:41:37
Local clock offset: -2.889 ms
Remote clock offset: 5.682 ms

Below is generated by plot.py at 2018-07-03 22:10:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 46.84 Mbit/s
95th percentile per-packet one-way delay: 147.718 ms
Loss rate: 58.58%
-- Flow 1:
Average throughput: 34.96 Mbit/s
95th percentile per-packet one-way delay: 151.427 ms
Loss rate: 64.80%
-- Flow 2:
Average throughput: 17.74 Mbit/s
95th percentile per-packet one-way delay: 115.613 ms
Loss rate: 14.12%
-- Flow 3:
Average throughput: 4.51 Mbit/s
95th percentile per-packet one-way delay: 116.076 ms
Loss rate: 10.56%

Run 7: Report of Verus — Data Link

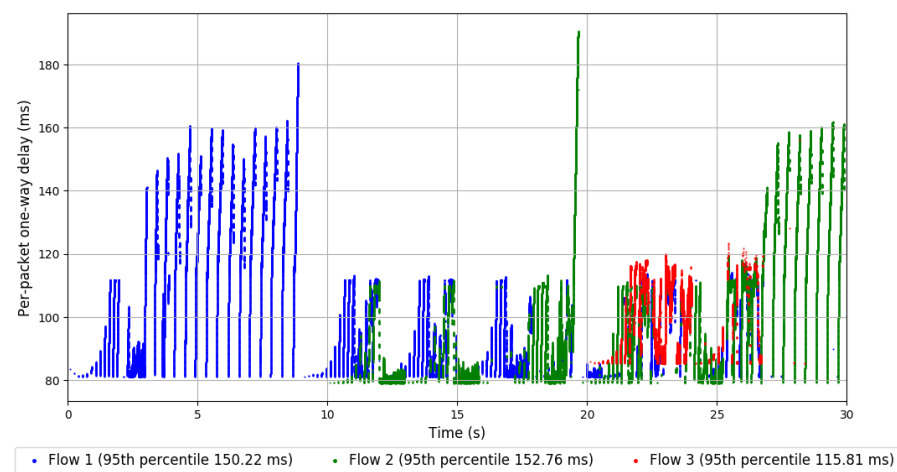
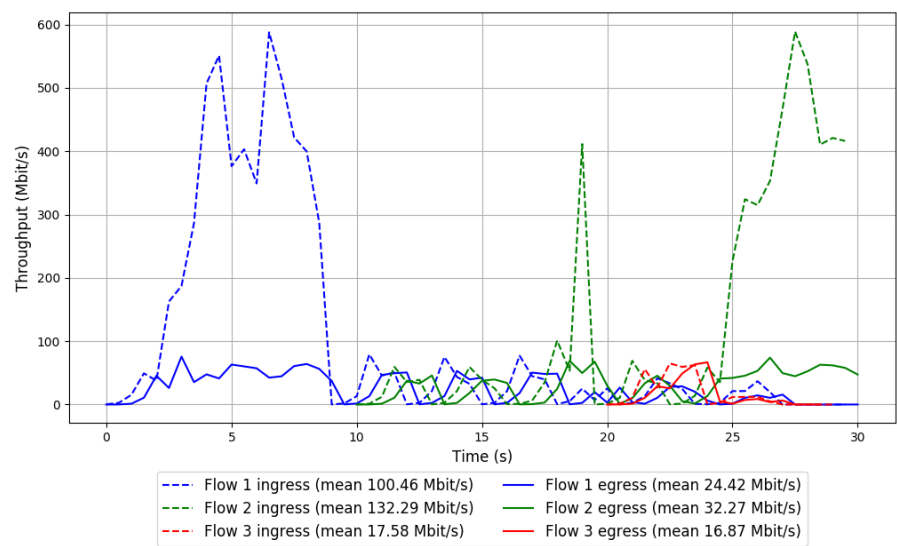


Run 8: Statistics of Verus

Start at: 2018-07-03 21:02:14
End at: 2018-07-03 21:02:44
Local clock offset: -3.17 ms
Remote clock offset: 6.116 ms

Below is generated by plot.py at 2018-07-03 22:10:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 50.51 Mbit/s
95th percentile per-packet one-way delay: 150.425 ms
Loss rate: 73.86%
-- Flow 1:
Average throughput: 24.42 Mbit/s
95th percentile per-packet one-way delay: 150.224 ms
Loss rate: 75.63%
-- Flow 2:
Average throughput: 32.27 Mbit/s
95th percentile per-packet one-way delay: 152.757 ms
Loss rate: 75.53%
-- Flow 3:
Average throughput: 16.87 Mbit/s
95th percentile per-packet one-way delay: 115.814 ms
Loss rate: 14.51%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-07-03 21:23:25

End at: 2018-07-03 21:23:55

Local clock offset: -2.303 ms

Remote clock offset: 2.996 ms

Below is generated by plot.py at 2018-07-03 22:10:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 45.05 Mbit/s

95th percentile per-packet one-way delay: 112.437 ms

Loss rate: 17.84%

-- Flow 1:

Average throughput: 29.26 Mbit/s

95th percentile per-packet one-way delay: 110.128 ms

Loss rate: 21.79%

-- Flow 2:

Average throughput: 16.65 Mbit/s

95th percentile per-packet one-way delay: 117.449 ms

Loss rate: 10.46%

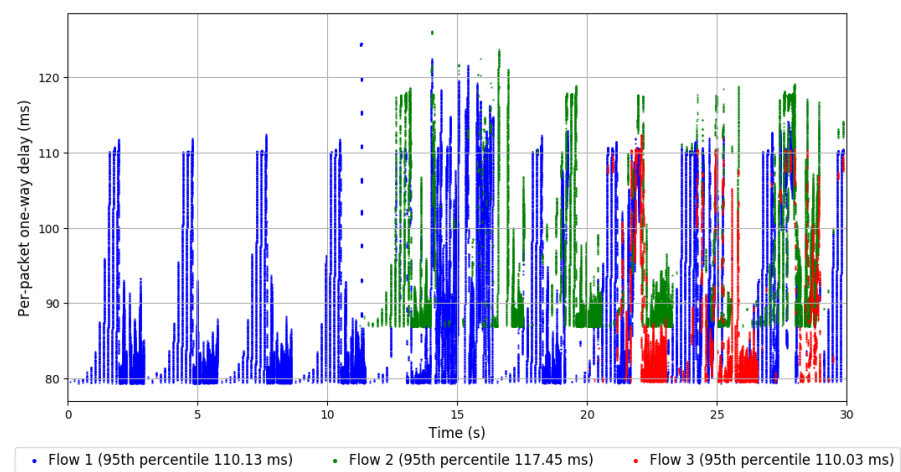
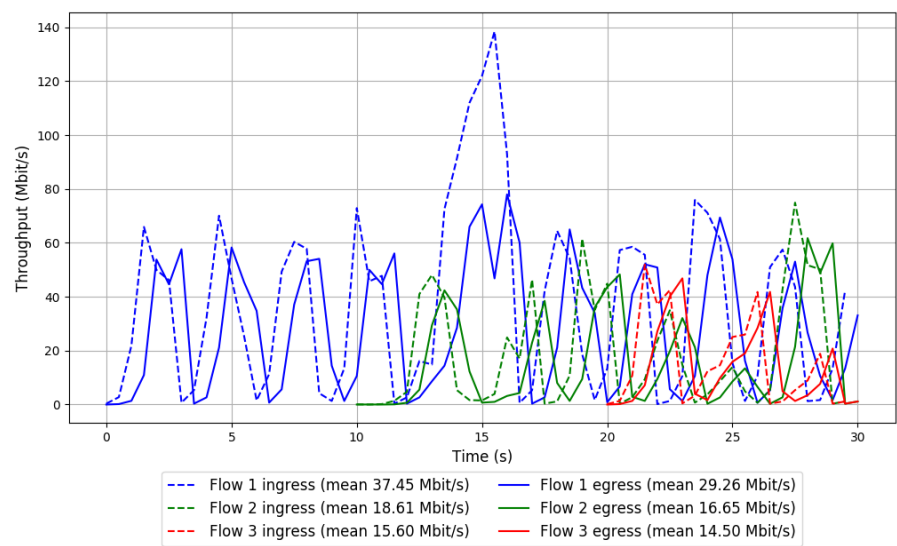
-- Flow 3:

Average throughput: 14.50 Mbit/s

95th percentile per-packet one-way delay: 110.026 ms

Loss rate: 6.73%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-07-03 21:44:38

End at: 2018-07-03 21:45:08

Local clock offset: -2.275 ms

Remote clock offset: 4.371 ms

Below is generated by plot.py at 2018-07-03 22:10:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.40 Mbit/s

95th percentile per-packet one-way delay: 134.877 ms

Loss rate: 65.52%

-- Flow 1:

Average throughput: 17.25 Mbit/s

95th percentile per-packet one-way delay: 115.674 ms

Loss rate: 12.41%

-- Flow 2:

Average throughput: 24.85 Mbit/s

95th percentile per-packet one-way delay: 131.186 ms

Loss rate: 64.04%

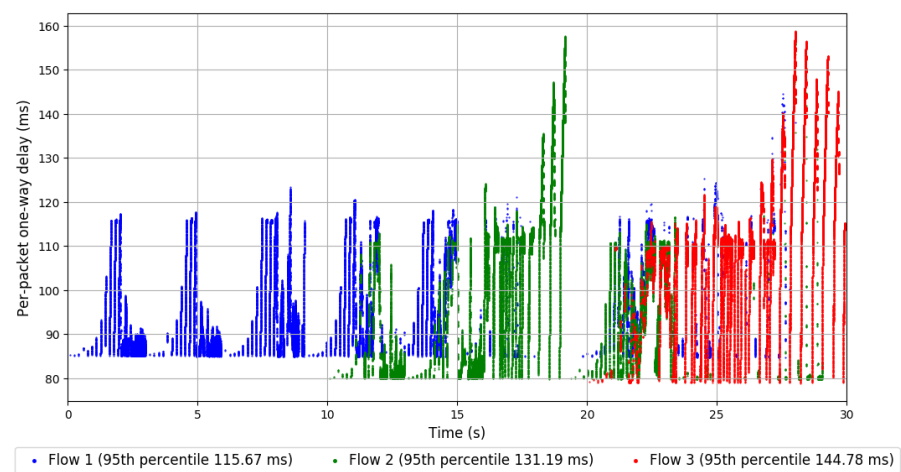
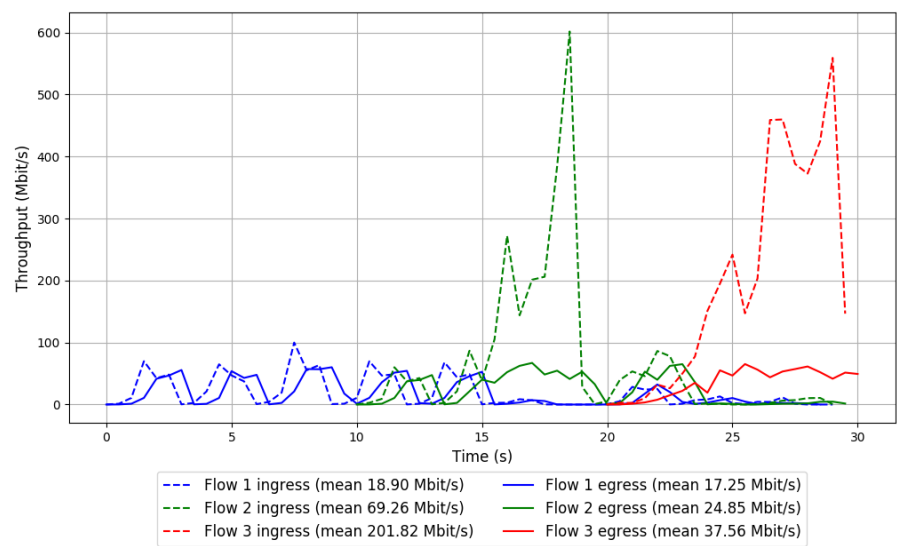
-- Flow 3:

Average throughput: 37.56 Mbit/s

95th percentile per-packet one-way delay: 144.777 ms

Loss rate: 81.32%

Run 10: Report of Verus — Data Link

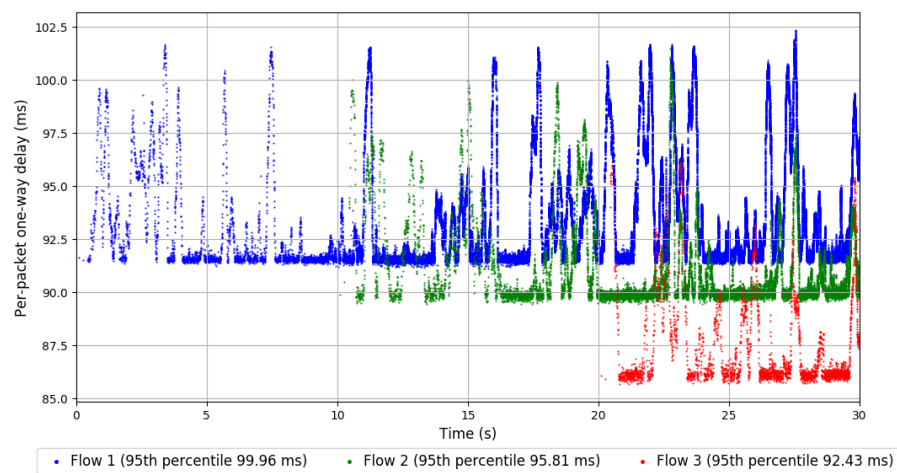
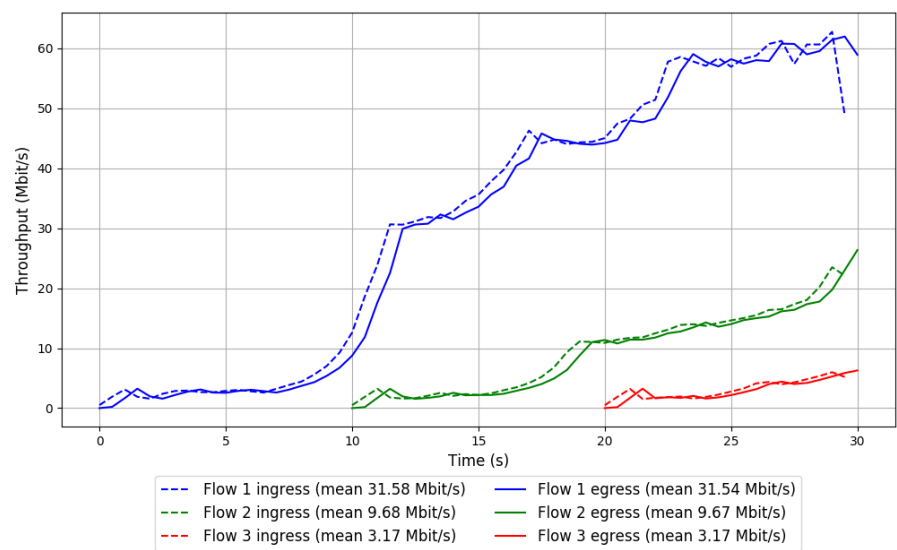


Run 1: Statistics of PCC-Vivace

Start at: 2018-07-03 18:32:06
End at: 2018-07-03 18:32:36
Local clock offset: -1.845 ms
Remote clock offset: 12.903 ms

Below is generated by plot.py at 2018-07-03 22:10:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 39.01 Mbit/s
95th percentile per-packet one-way delay: 99.532 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 31.54 Mbit/s
95th percentile per-packet one-way delay: 99.961 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 9.67 Mbit/s
95th percentile per-packet one-way delay: 95.808 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 3.17 Mbit/s
95th percentile per-packet one-way delay: 92.432 ms
Loss rate: 0.04%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-07-03 18:53:14

End at: 2018-07-03 18:53:44

Local clock offset: -2.023 ms

Remote clock offset: 8.26 ms

Below is generated by plot.py at 2018-07-03 22:10:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.47 Mbit/s

95th percentile per-packet one-way delay: 91.180 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 15.99 Mbit/s

95th percentile per-packet one-way delay: 89.554 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 7.60 Mbit/s

95th percentile per-packet one-way delay: 91.538 ms

Loss rate: 0.18%

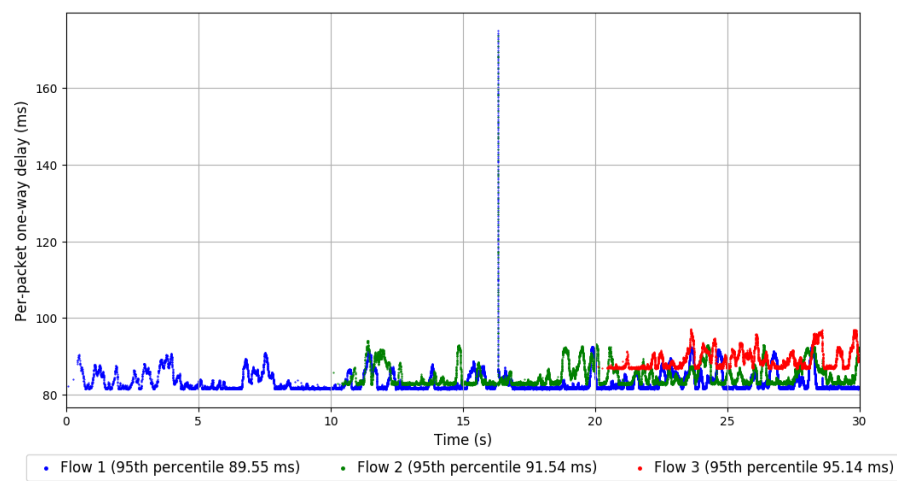
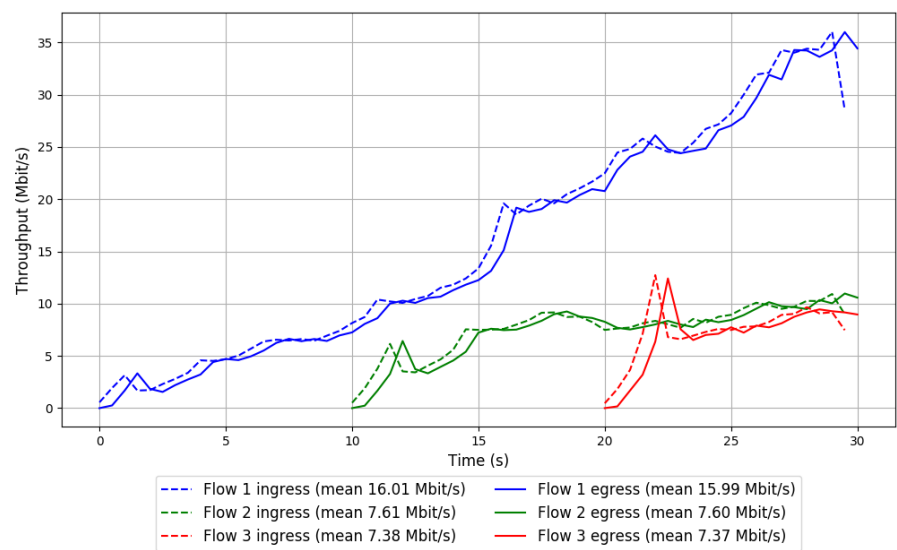
-- Flow 3:

Average throughput: 7.37 Mbit/s

95th percentile per-packet one-way delay: 95.142 ms

Loss rate: 0.11%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-07-03 19:14:22

End at: 2018-07-03 19:14:52

Local clock offset: -2.018 ms

Remote clock offset: 6.977 ms

Below is generated by plot.py at 2018-07-03 22:10:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 45.86 Mbit/s

95th percentile per-packet one-way delay: 115.543 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 5.20 Mbit/s

95th percentile per-packet one-way delay: 95.635 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 50.34 Mbit/s

95th percentile per-packet one-way delay: 114.739 ms

Loss rate: 0.78%

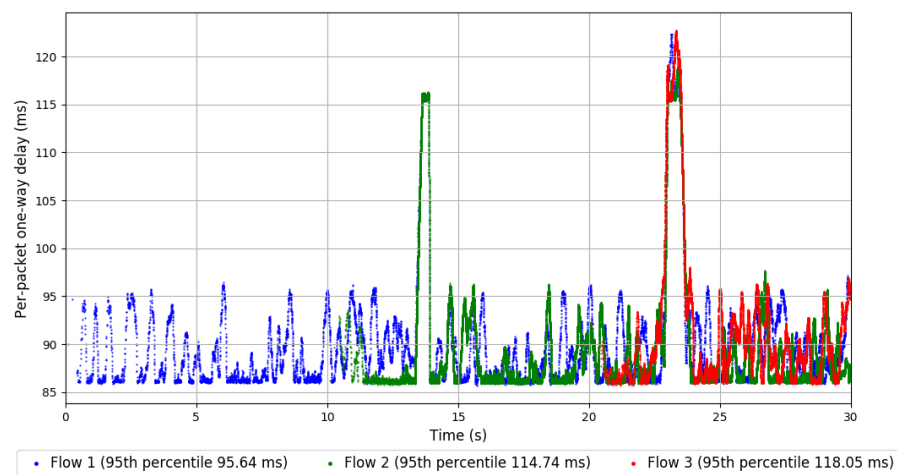
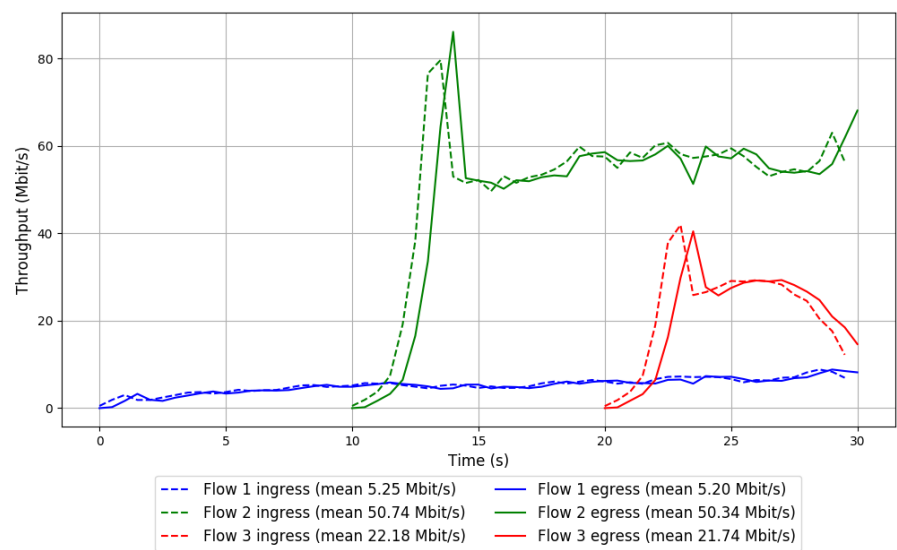
-- Flow 3:

Average throughput: 21.74 Mbit/s

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

Loss rate: 2.03%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-07-03 19:35:31

End at: 2018-07-03 19:36:01

Local clock offset: -2.213 ms

Remote clock offset: 7.063 ms

Below is generated by plot.py at 2018-07-03 22:10:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 21.83 Mbit/s

95th percentile per-packet one-way delay: 93.082 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 15.76 Mbit/s

95th percentile per-packet one-way delay: 93.396 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 7.13 Mbit/s

95th percentile per-packet one-way delay: 91.203 ms

Loss rate: 0.12%

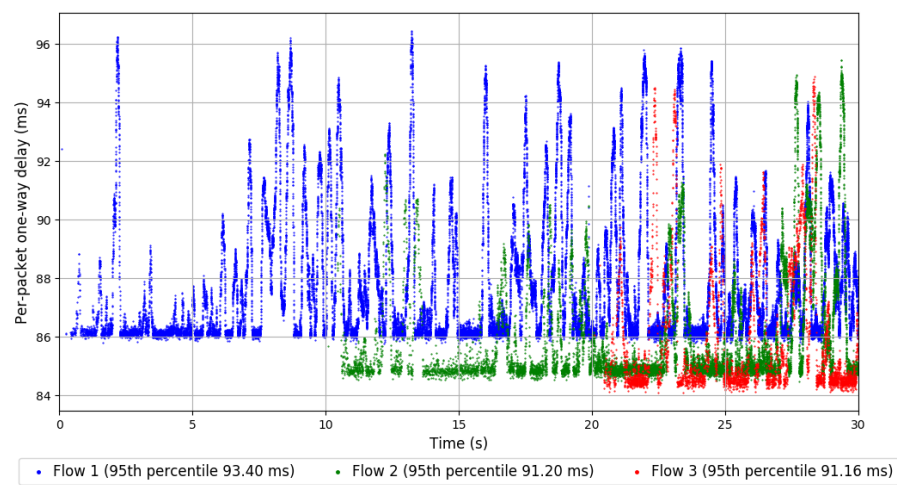
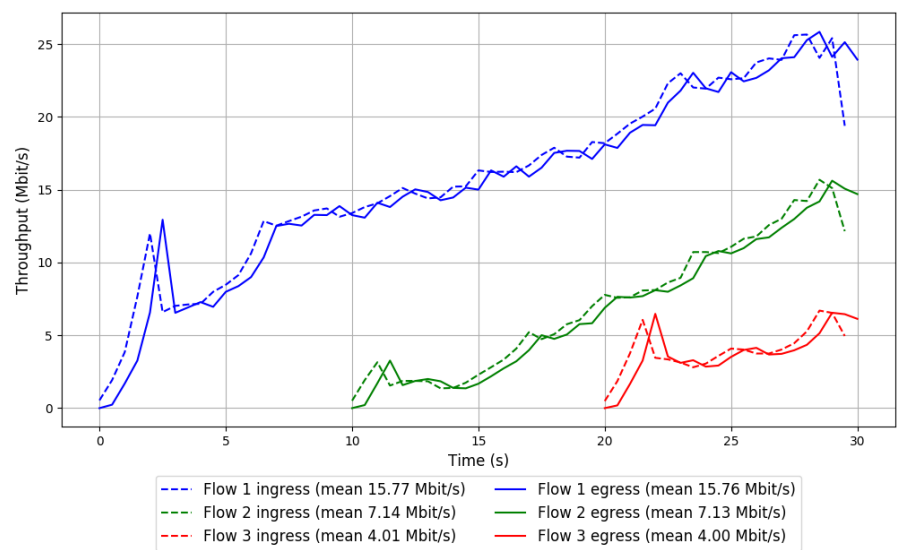
-- Flow 3:

Average throughput: 4.00 Mbit/s

95th percentile per-packet one-way delay: 91.164 ms

Loss rate: 0.20%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-07-03 19:56:32

End at: 2018-07-03 19:57:02

Local clock offset: -2.197 ms

Remote clock offset: 1.856 ms

Below is generated by plot.py at 2018-07-03 22:10:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.45 Mbit/s

95th percentile per-packet one-way delay: 108.114 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 8.07 Mbit/s

95th percentile per-packet one-way delay: 94.203 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 50.95 Mbit/s

95th percentile per-packet one-way delay: 109.128 ms

Loss rate: 0.73%

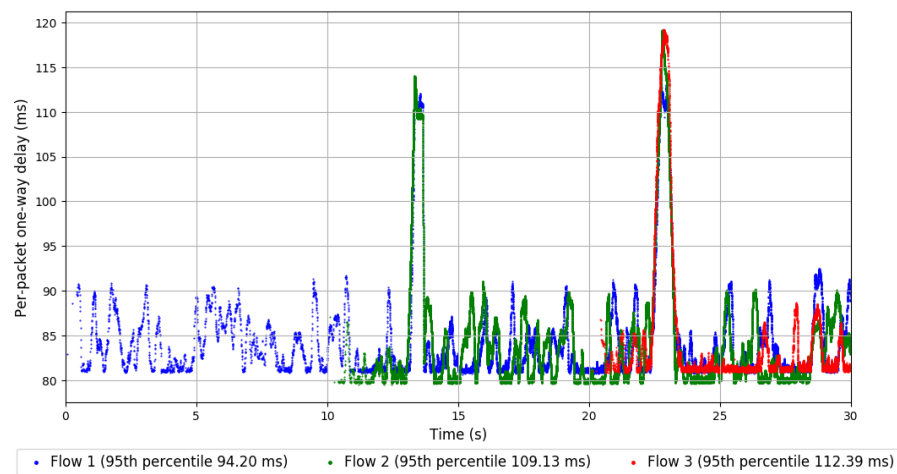
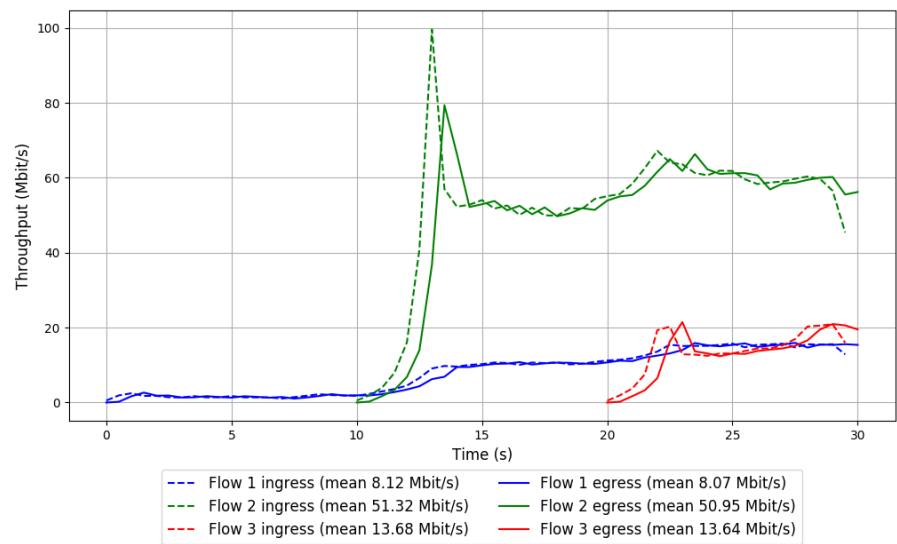
-- Flow 3:

Average throughput: 13.64 Mbit/s

95th percentile per-packet one-way delay: 112.386 ms

Loss rate: 0.29%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-07-03 20:17:31

End at: 2018-07-03 20:18:01

Local clock offset: -2.457 ms

Remote clock offset: 8.632 ms

Below is generated by plot.py at 2018-07-03 22:10:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 25.68 Mbit/s

95th percentile per-packet one-way delay: 93.731 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 11.99 Mbit/s

95th percentile per-packet one-way delay: 92.368 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 19.44 Mbit/s

95th percentile per-packet one-way delay: 94.576 ms

Loss rate: 0.18%

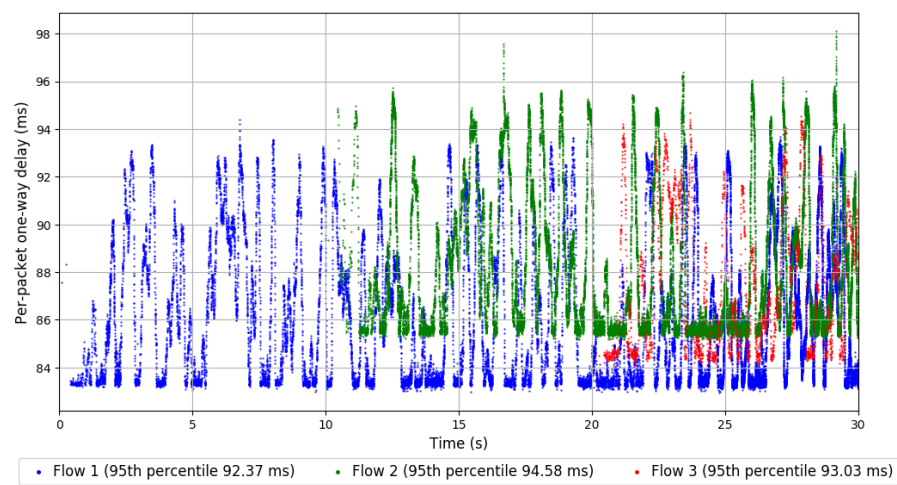
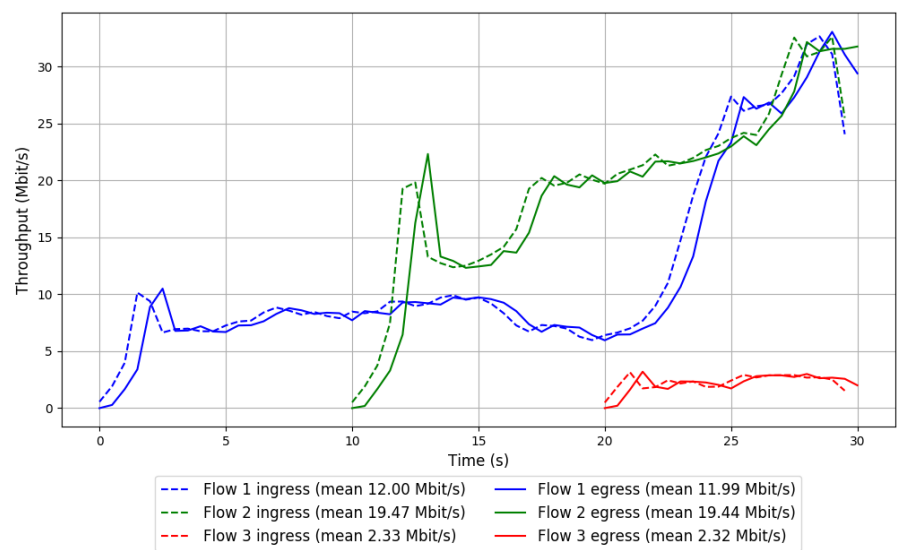
-- Flow 3:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 93.032 ms

Loss rate: 0.20%

Run 6: Report of PCC-Vivace — Data Link

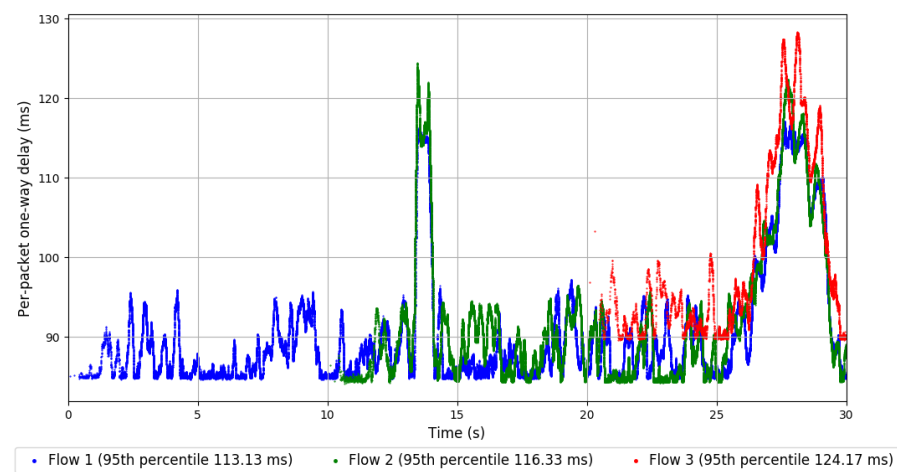
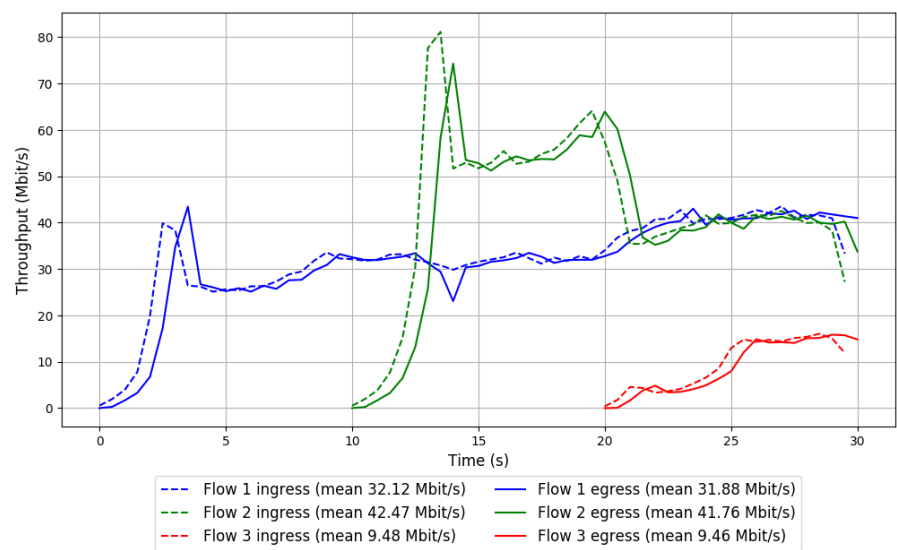


Run 7: Statistics of PCC-Vivace

Start at: 2018-07-03 20:38:35
End at: 2018-07-03 20:39:05
Local clock offset: -2.752 ms
Remote clock offset: 10.355 ms

```
# Below is generated by plot.py at 2018-07-03 22:11:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.77 Mbit/s
95th percentile per-packet one-way delay: 114.861 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 31.88 Mbit/s
95th percentile per-packet one-way delay: 113.130 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 41.76 Mbit/s
95th percentile per-packet one-way delay: 116.330 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 9.46 Mbit/s
95th percentile per-packet one-way delay: 124.169 ms
Loss rate: 0.38%
```


Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-03 20:59:41

End at: 2018-07-03 21:00:11

Local clock offset: -3.151 ms

Remote clock offset: 10.11 ms

Below is generated by plot.py at 2018-07-03 22:11:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.53 Mbit/s

95th percentile per-packet one-way delay: 108.813 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 70.80 Mbit/s

95th percentile per-packet one-way delay: 108.592 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 8.99 Mbit/s

95th percentile per-packet one-way delay: 109.023 ms

Loss rate: 0.06%

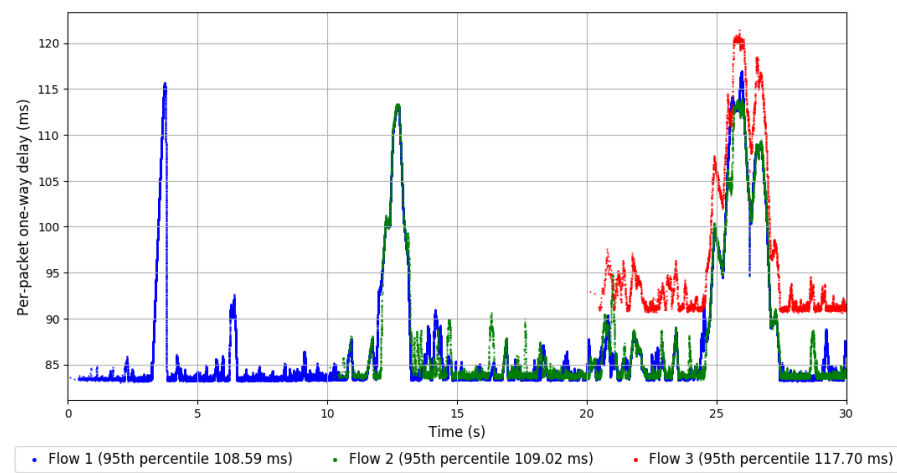
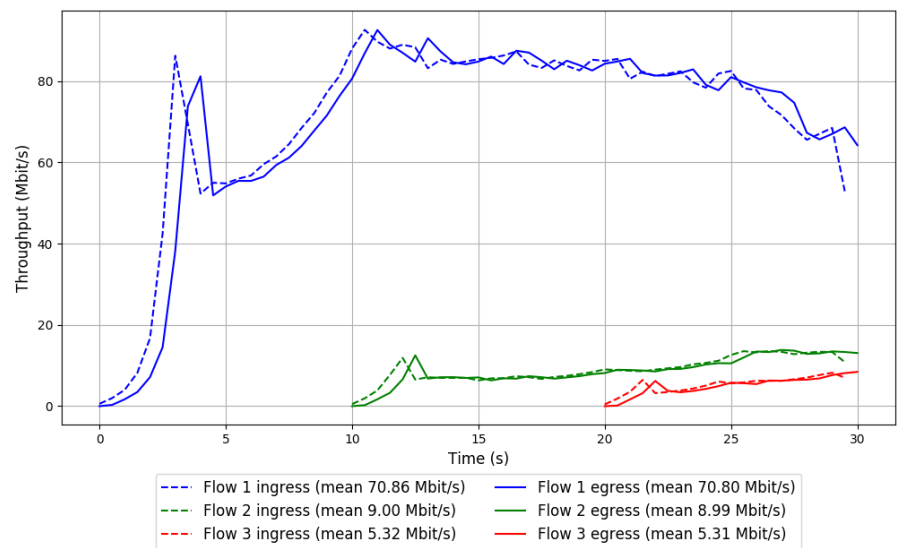
-- Flow 3:

Average throughput: 5.31 Mbit/s

95th percentile per-packet one-way delay: 117.699 ms

Loss rate: 0.29%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-03 21:20:53

End at: 2018-07-03 21:21:23

Local clock offset: -2.325 ms

Remote clock offset: 4.366 ms

Below is generated by plot.py at 2018-07-03 22:11:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.22 Mbit/s

95th percentile per-packet one-way delay: 111.828 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 54.66 Mbit/s

95th percentile per-packet one-way delay: 111.511 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 28.44 Mbit/s

95th percentile per-packet one-way delay: 116.100 ms

Loss rate: 0.99%

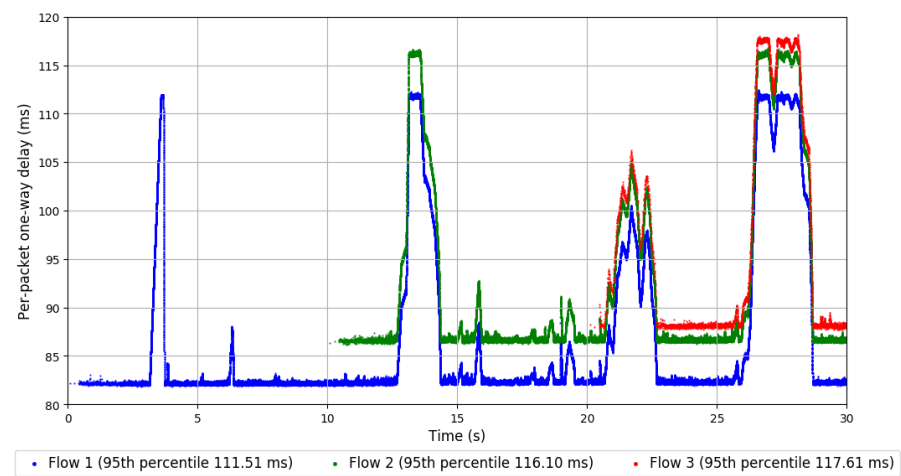
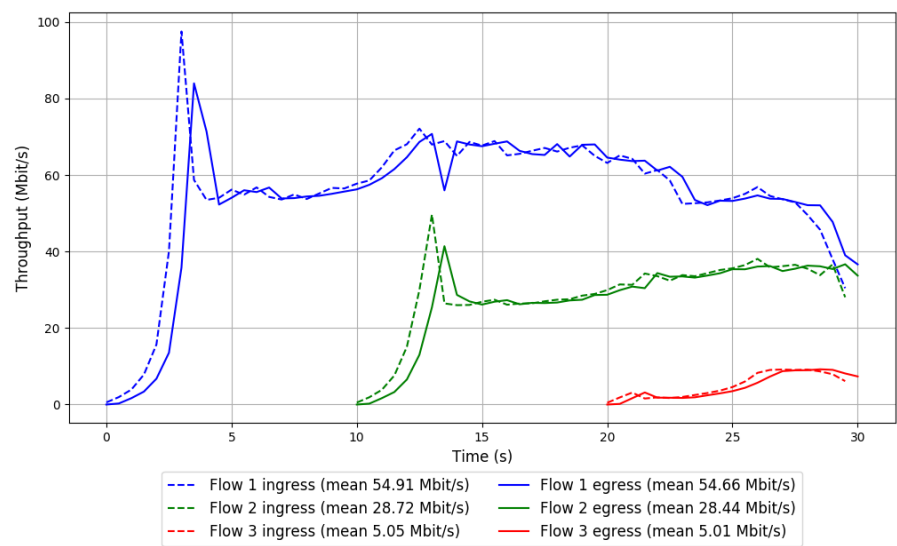
-- Flow 3:

Average throughput: 5.01 Mbit/s

95th percentile per-packet one-way delay: 117.608 ms

Loss rate: 0.88%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-03 21:42:07

End at: 2018-07-03 21:42:37

Local clock offset: -2.093 ms

Remote clock offset: 3.365 ms

Below is generated by plot.py at 2018-07-03 22:11:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.16 Mbit/s

95th percentile per-packet one-way delay: 104.181 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 51.87 Mbit/s

95th percentile per-packet one-way delay: 104.773 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 16.56 Mbit/s

95th percentile per-packet one-way delay: 103.492 ms

Loss rate: 0.01%

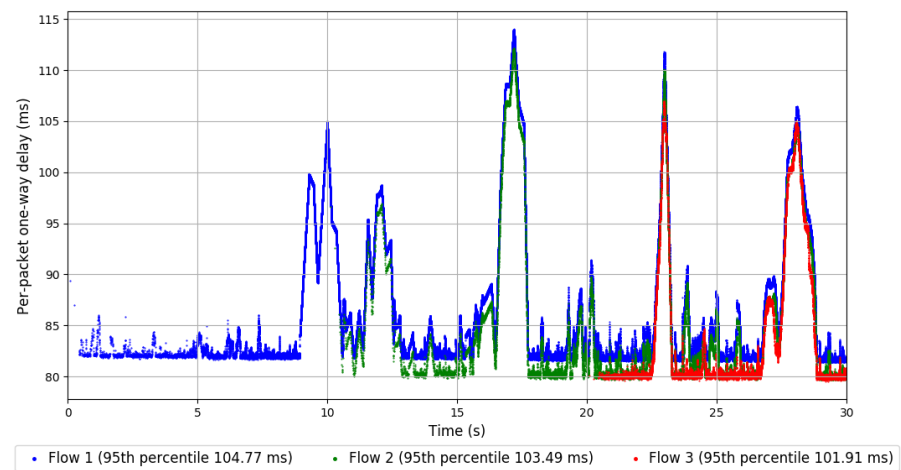
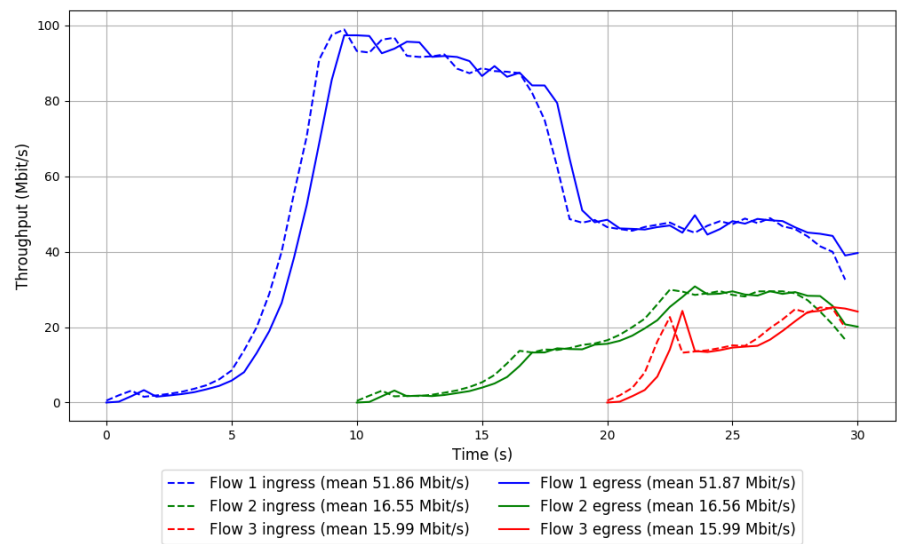
-- Flow 3:

Average throughput: 15.99 Mbit/s

95th percentile per-packet one-way delay: 101.907 ms

Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-07-03 18:28:27

End at: 2018-07-03 18:28:57

Local clock offset: -1.909 ms

Remote clock offset: 9.946 ms

Below is generated by plot.py at 2018-07-03 22:11:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.49 Mbit/s

95th percentile per-packet one-way delay: 96.830 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 97.644 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 87.145 ms

Loss rate: 0.03%

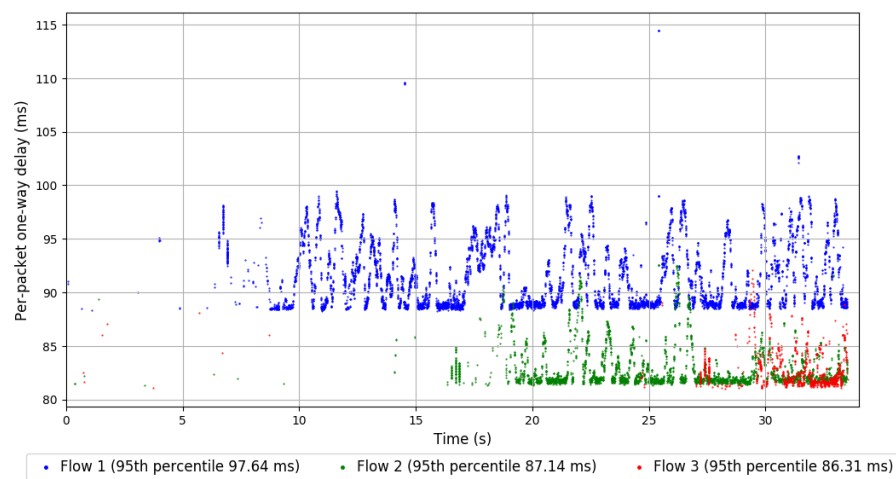
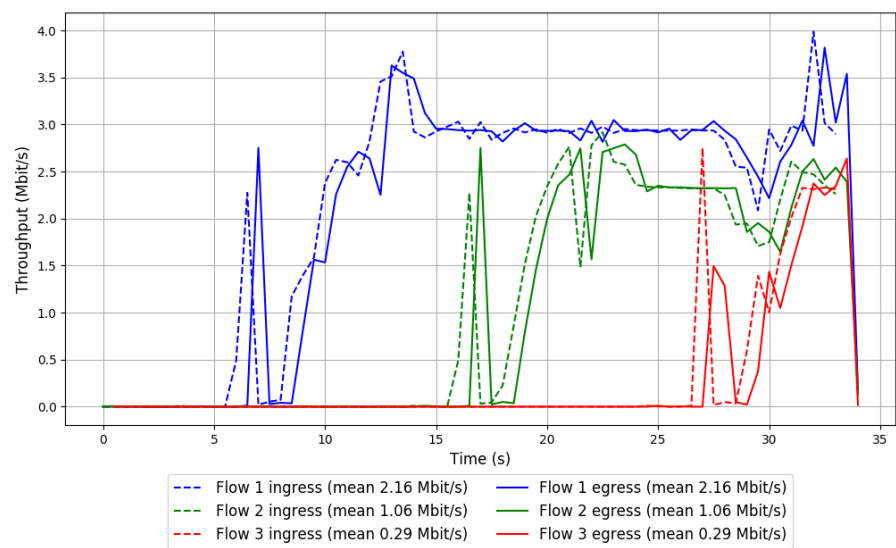
-- Flow 3:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 86.305 ms

Loss rate: 0.10%

Run 1: Report of WebRTC media — Data Link

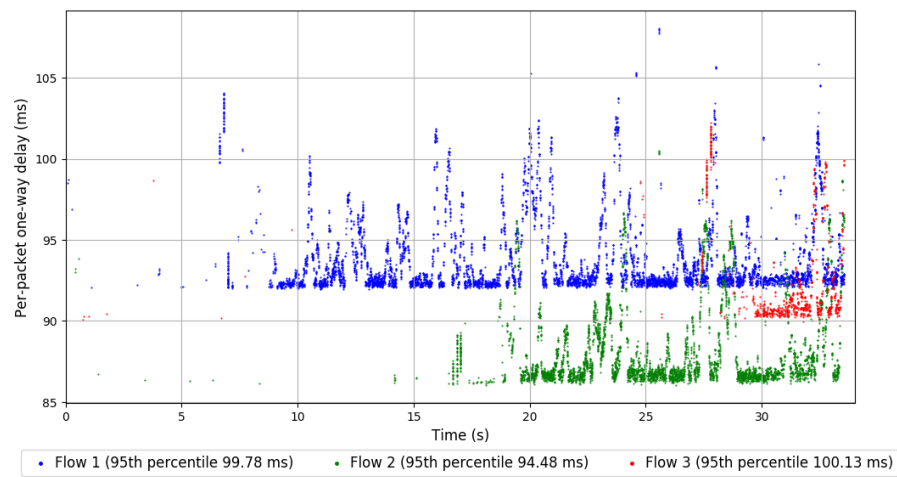
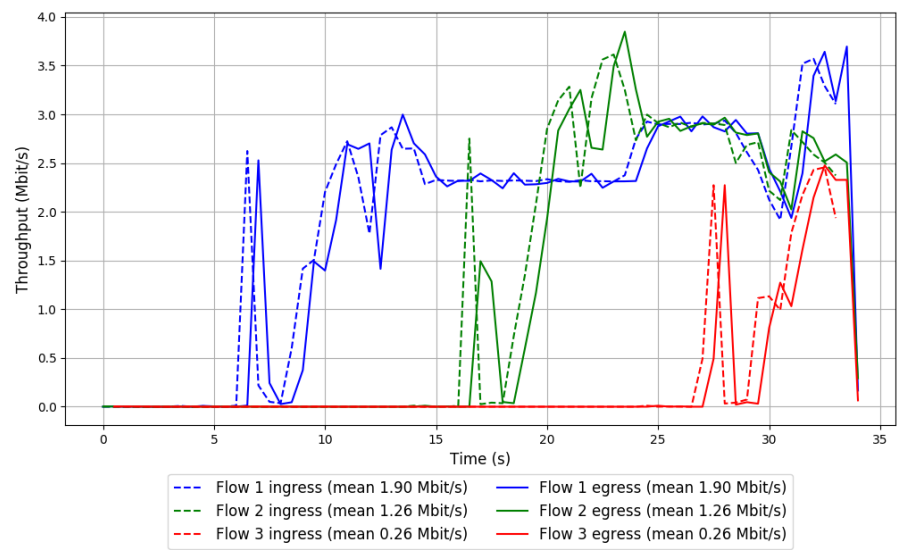


Run 2: Statistics of WebRTC media

Start at: 2018-07-03 18:49:33
End at: 2018-07-03 18:50:03
Local clock offset: -1.993 ms
Remote clock offset: 12.879 ms

Below is generated by plot.py at 2018-07-03 22:11:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.40 Mbit/s
95th percentile per-packet one-way delay: 98.517 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 99.775 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 1.26 Mbit/s
95th percentile per-packet one-way delay: 94.481 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 100.127 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-07-03 19:10:43

End at: 2018-07-03 19:11:13

Local clock offset: -1.903 ms

Remote clock offset: 7.872 ms

Below is generated by plot.py at 2018-07-03 22:11:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.47 Mbit/s

95th percentile per-packet one-way delay: 94.476 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 95.431 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 93.198 ms

Loss rate: 0.04%

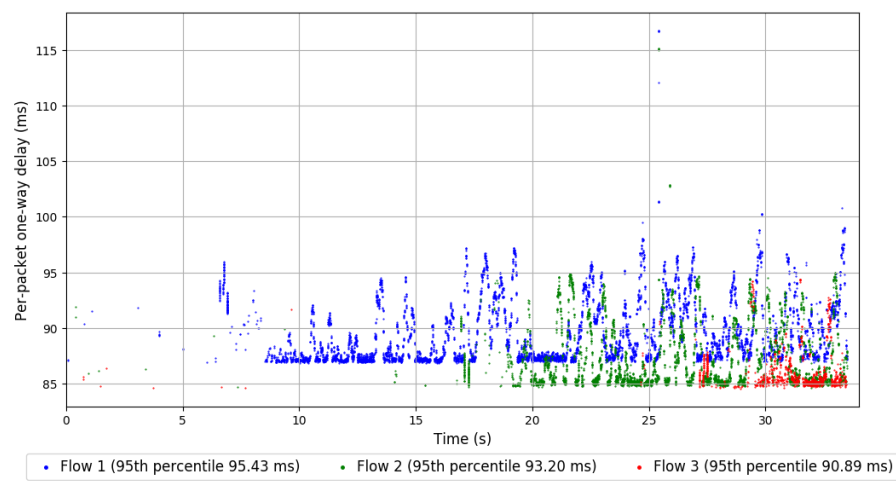
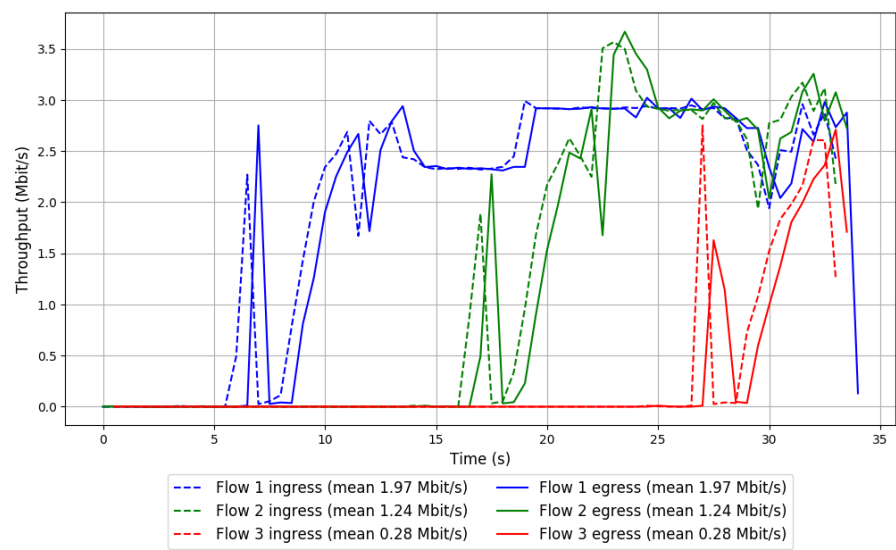
-- Flow 3:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 90.894 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-07-03 19:31:51

End at: 2018-07-03 19:32:21

Local clock offset: -2.265 ms

Remote clock offset: 3.404 ms

Below is generated by plot.py at 2018-07-03 22:11:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.14 Mbit/s

95th percentile per-packet one-way delay: 90.550 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 1.77 Mbit/s

95th percentile per-packet one-way delay: 88.636 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.04 Mbit/s

95th percentile per-packet one-way delay: 86.600 ms

Loss rate: 0.00%

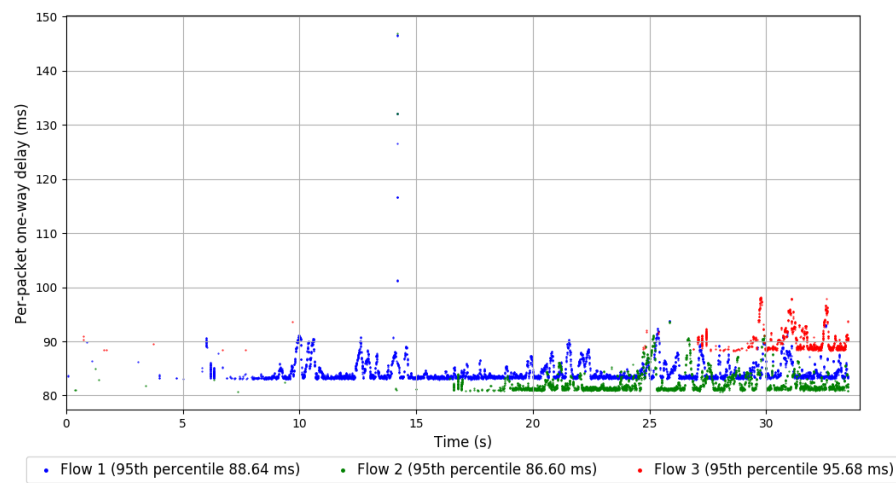
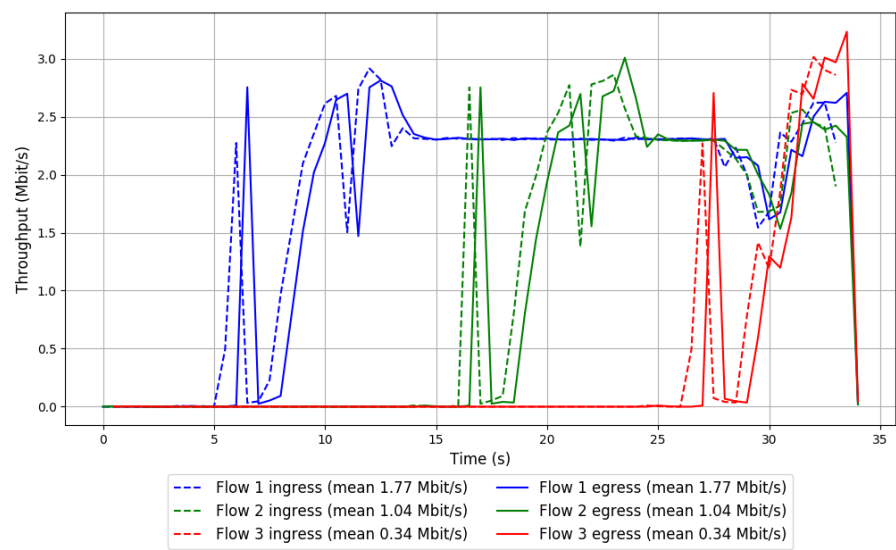
-- Flow 3:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 95.680 ms

Loss rate: 0.38%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-07-03 19:52:54

End at: 2018-07-03 19:53:24

Local clock offset: -2.201 ms

Remote clock offset: 6.89 ms

Below is generated by plot.py at 2018-07-03 22:11:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.19 Mbit/s

95th percentile per-packet one-way delay: 93.532 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 92.088 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 94.814 ms

Loss rate: 0.15%

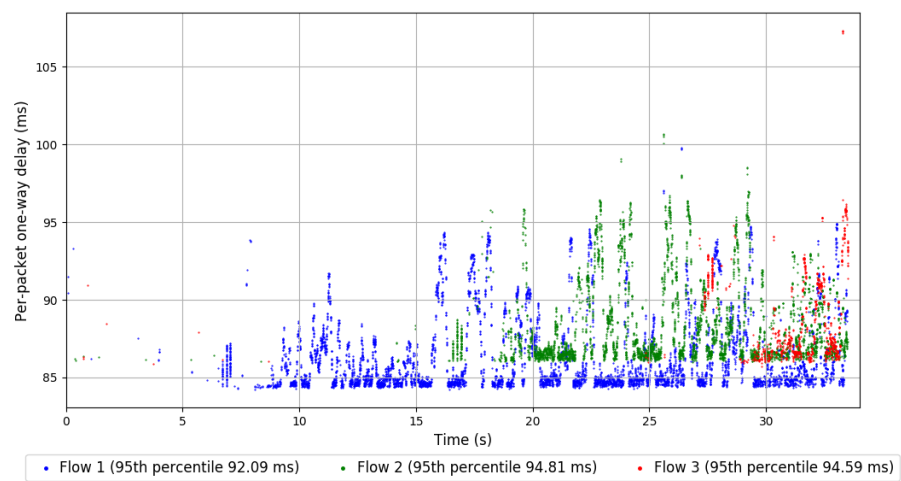
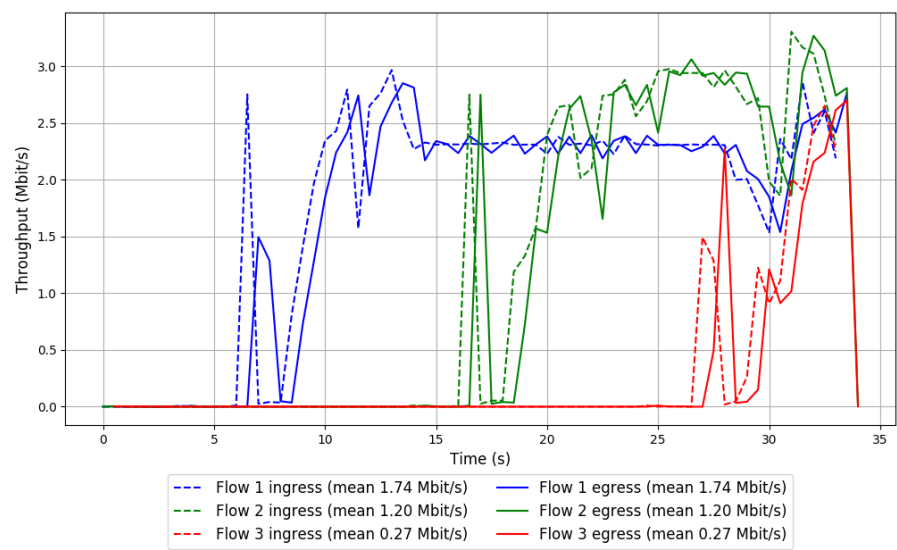
-- Flow 3:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 94.587 ms

Loss rate: 0.11%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-03 20:13:56

End at: 2018-07-03 20:14:26

Local clock offset: -2.353 ms

Remote clock offset: 9.426 ms

Below is generated by plot.py at 2018-07-03 22:11:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.42 Mbit/s

95th percentile per-packet one-way delay: 95.145 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 95.250 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 1.12 Mbit/s

95th percentile per-packet one-way delay: 95.207 ms

Loss rate: 0.10%

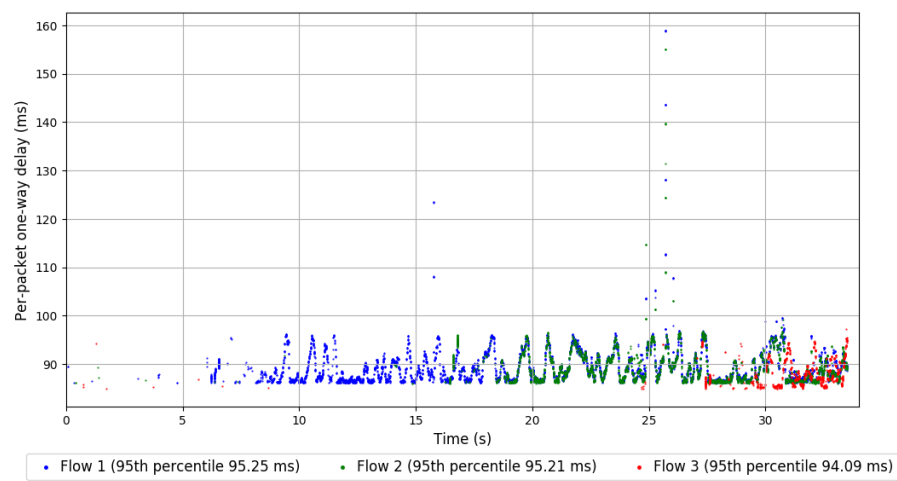
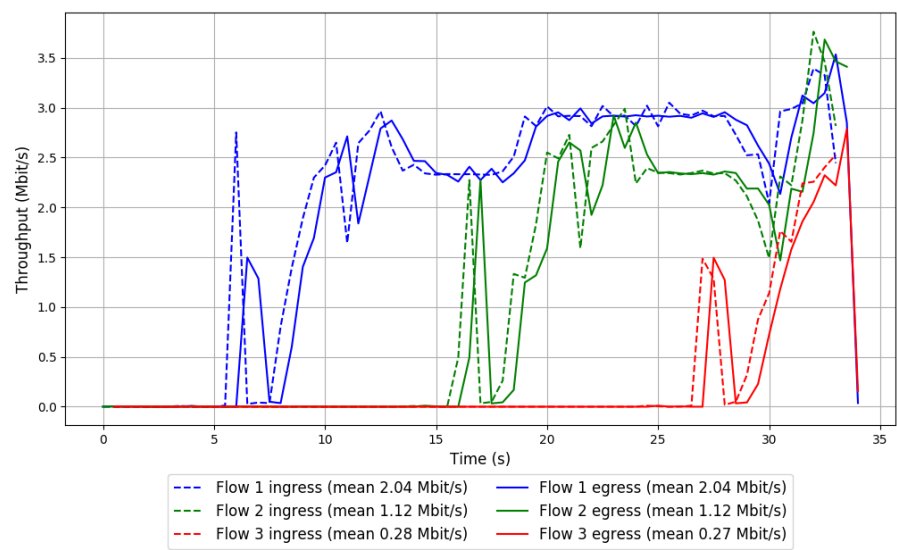
-- Flow 3:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 94.092 ms

Loss rate: 0.44%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-07-03 20:34:55

End at: 2018-07-03 20:35:25

Local clock offset: -2.731 ms

Remote clock offset: 5.1 ms

Below is generated by plot.py at 2018-07-03 22:11:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.50 Mbit/s

95th percentile per-packet one-way delay: 90.350 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 90.254 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 90.833 ms

Loss rate: 0.19%

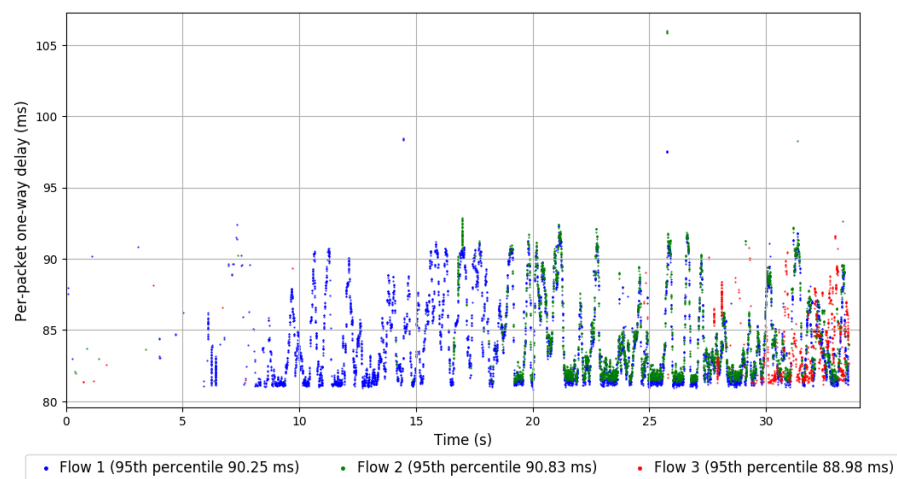
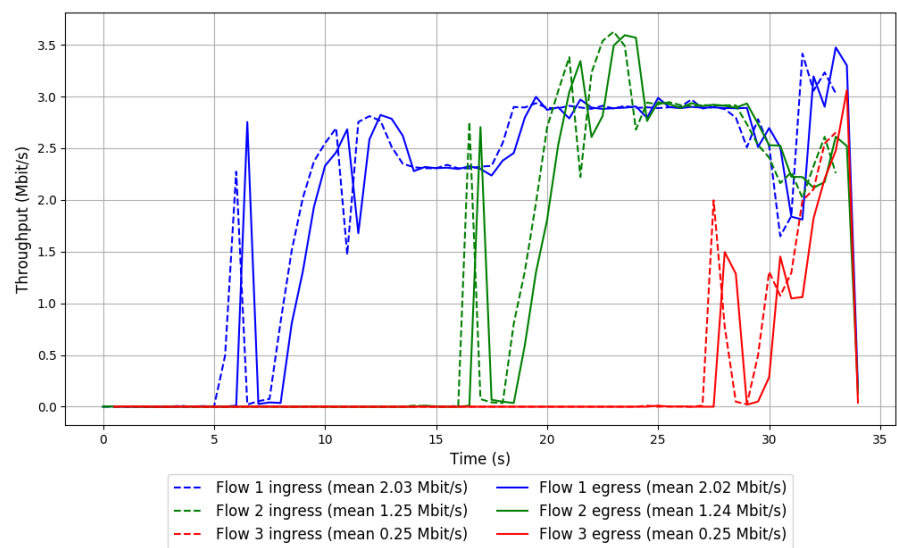
-- Flow 3:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 88.984 ms

Loss rate: 0.11%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-07-03 20:56:02

End at: 2018-07-03 20:56:32

Local clock offset: -3.096 ms

Remote clock offset: 5.992 ms

Below is generated by plot.py at 2018-07-03 22:11:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.21 Mbit/s

95th percentile per-packet one-way delay: 86.257 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 85.708 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 87.951 ms

Loss rate: 0.05%

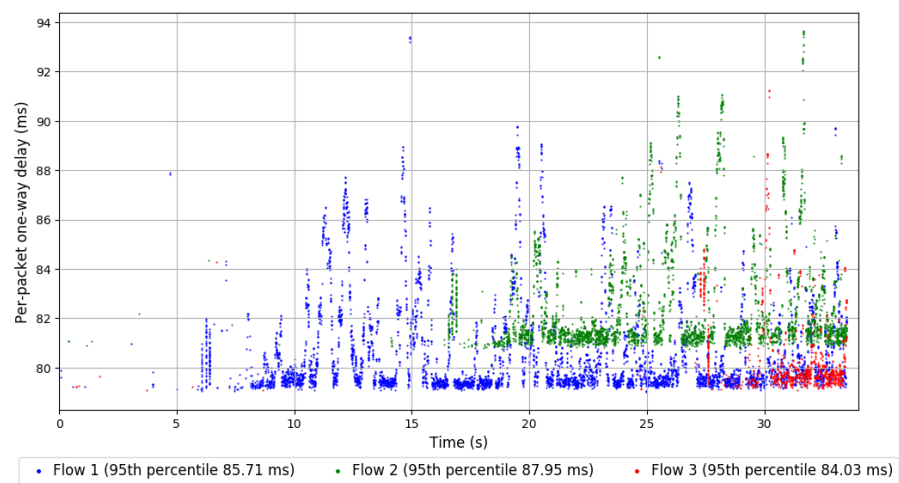
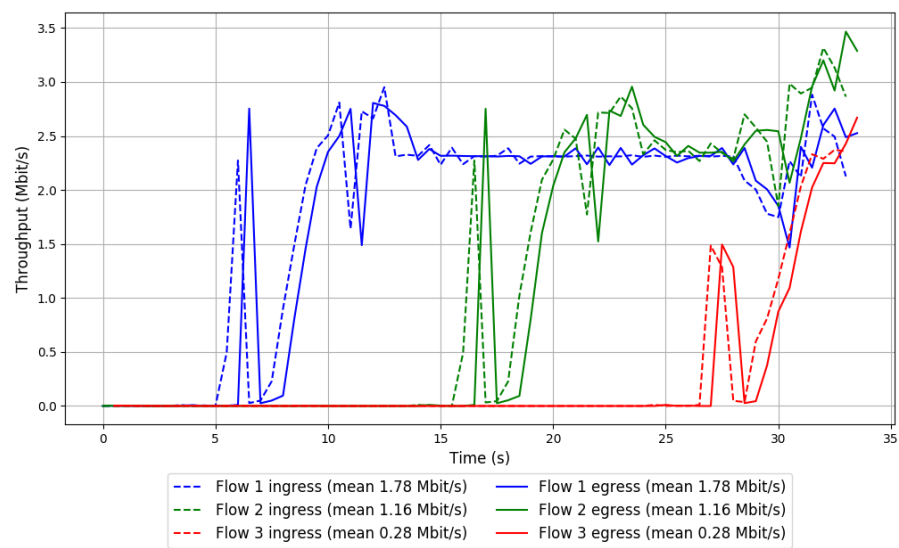
-- Flow 3:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 84.025 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-03 21:17:13

End at: 2018-07-03 21:17:43

Local clock offset: -2.621 ms

Remote clock offset: 9.822 ms

Below is generated by plot.py at 2018-07-03 22:11:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.06 Mbit/s

95th percentile per-packet one-way delay: 88.601 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 86.657 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 89.077 ms

Loss rate: 0.00%

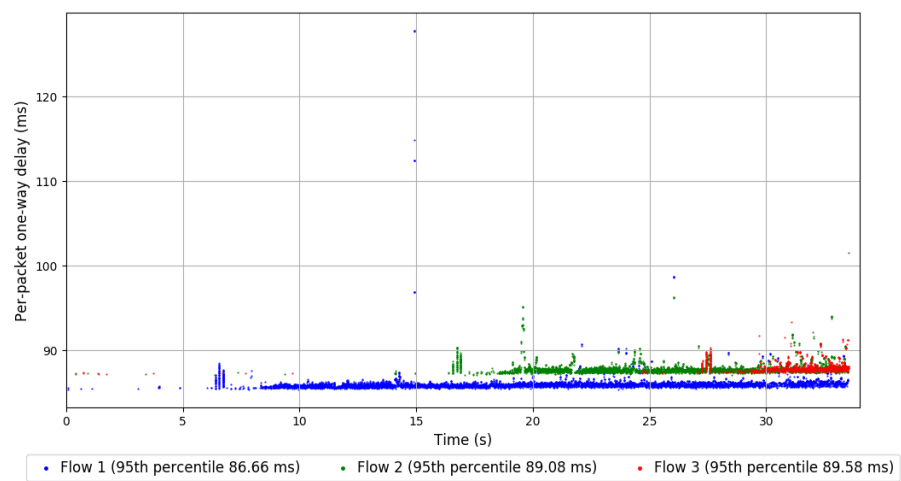
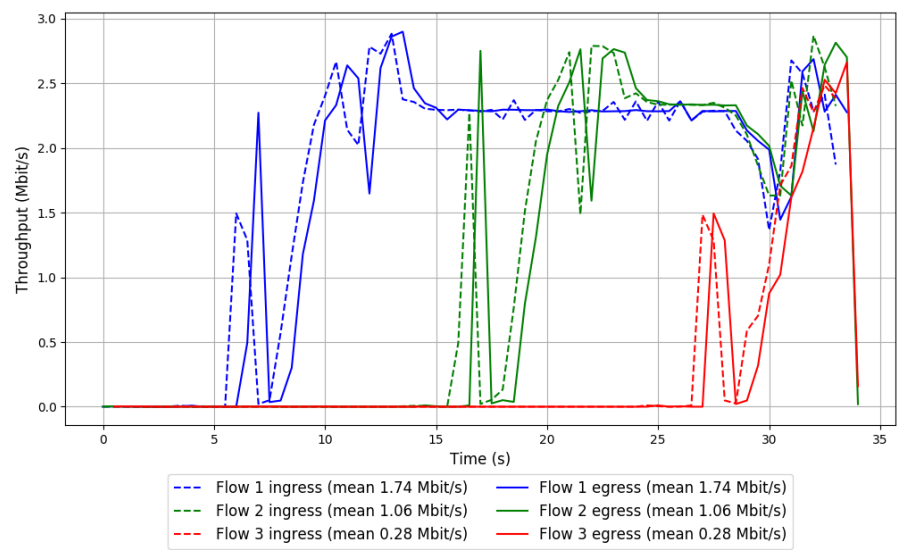
-- Flow 3:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 89.585 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-03 21:38:26

End at: 2018-07-03 21:38:56

Local clock offset: -1.891 ms

Remote clock offset: 8.095 ms

Below is generated by plot.py at 2018-07-03 22:11:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.06 Mbit/s

95th percentile per-packet one-way delay: 92.546 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 90.695 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 93.846 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 88.728 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

