

Pantheon Report

Generated at 2018-07-18 15:59:18 (UTC).

Data path: Stanford Ethernet (*remote*) → AWS California 1 Ethernet (*local*).

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.

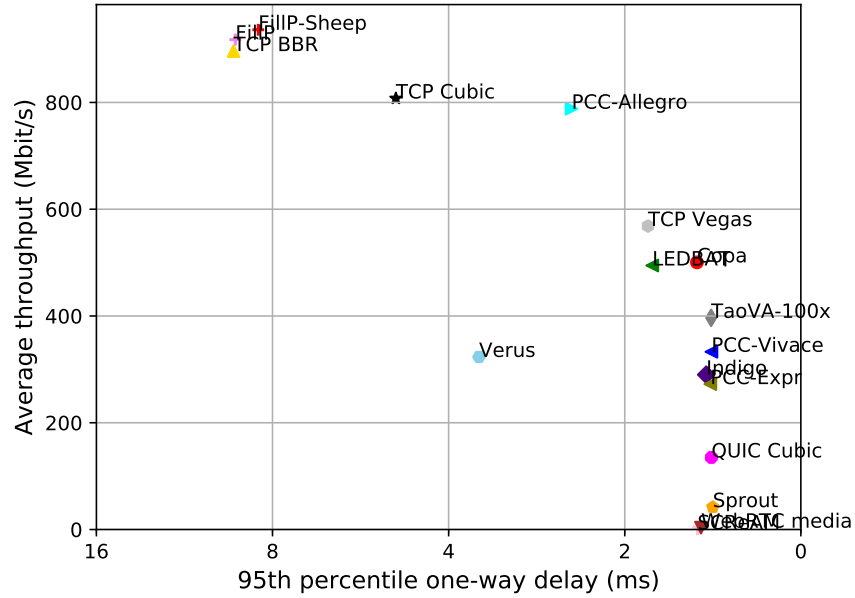
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

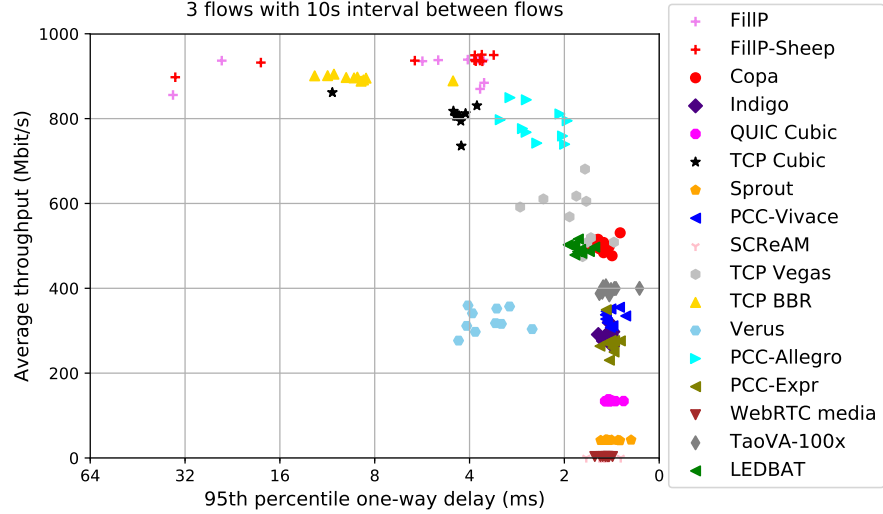
Git summary:

```
branch: master @ f7befc2d8410f41949e0ad8143a9aab40bab7edb
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
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 Stanford to AWS California 1, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from Stanford to AWS California 1, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	526.48	393.77	323.71	9.97	4.35	4.37	0.04	0.10	0.23
Copa	10	303.11	230.58	132.03	1.18	1.21	1.19	0.03	0.05	0.22
TCP Cubic	10	432.48	402.43	321.99	4.74	4.26	4.28	0.05	0.10	0.23
FillP	10	558.32	389.85	302.16	10.99	3.80	4.17	0.28	0.09	0.23
FillP-Sheep	10	566.39	398.82	315.77	8.98	3.71	3.85	0.13	0.09	0.23
Indigo	10	155.58	154.98	95.52	1.07	1.07	1.11	0.06	0.09	0.21
LEDBAT	10	295.34	216.86	165.18	1.61	1.80	1.71	0.04	0.07	0.25
PCC-Allegro	10	582.25	222.89	176.27	2.43	2.37	2.35	0.02	0.10	0.21
PCC-Expr	10	192.30	92.01	57.43	1.03	1.03	1.01	0.02	0.07	0.22
QUIC Cubic	10	73.18	66.02	54.17	1.01	1.01	1.01	0.05	0.09	0.21
SCReAM	10	0.22	0.22	0.22	1.17	1.17	1.17	0.05	0.10	0.28
Sprout	10	21.02	21.10	21.12	1.01	0.98	0.97	0.10	0.10	0.15
TaoVA-100x	10	224.78	201.09	114.03	0.99	1.01	1.29	0.04	0.07	0.16
TCP Vegas	10	282.39	264.30	331.73	1.55	1.60	1.98	0.06	0.08	0.18
Verus	10	195.27	139.29	109.20	4.15	2.40	2.19	0.03	0.11	0.11
PCC-Vivace	10	239.28	105.03	72.21	1.01	1.01	1.02	0.02	0.09	0.23
WebRTC media	10	1.71	1.21	0.54	1.13	1.13	1.14	0.04	0.16	0.29

Run 1: Statistics of TCP BBR

Start at: 2018-07-18 09:21:17

End at: 2018-07-18 09:21:47

Local clock offset: 1.624 ms

Remote clock offset: 0.201 ms

Below is generated by plot.py at 2018-07-18 13:59:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 889.01 Mbit/s

95th percentile per-packet one-way delay: 4.512 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 518.83 Mbit/s

95th percentile per-packet one-way delay: 6.067 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 393.89 Mbit/s

95th percentile per-packet one-way delay: 4.027 ms

Loss rate: 0.09%

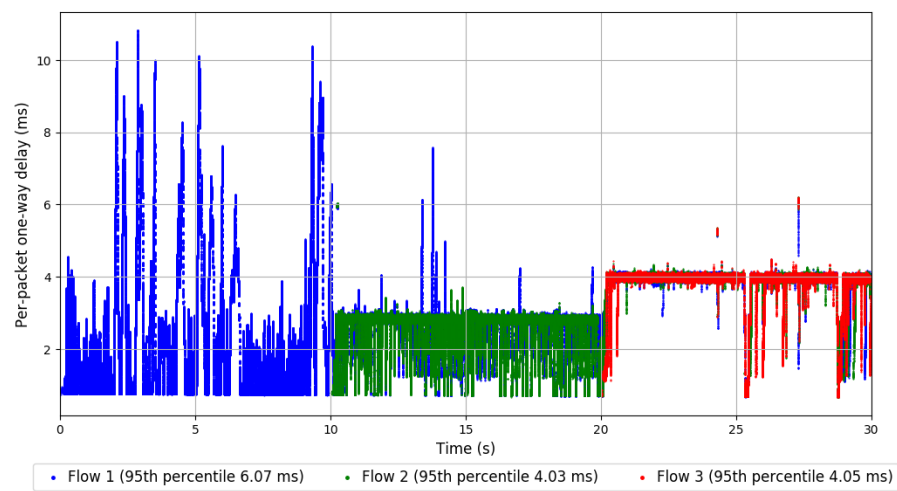
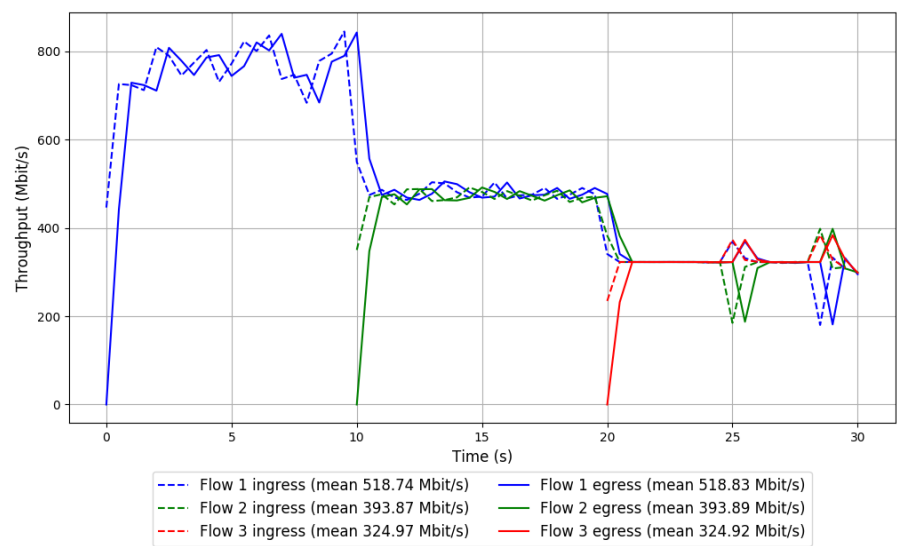
-- Flow 3:

Average throughput: 324.92 Mbit/s

95th percentile per-packet one-way delay: 4.050 ms

Loss rate: 0.21%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-07-18 09:48:10

End at: 2018-07-18 09:48:40

Local clock offset: 3.624 ms

Remote clock offset: 0.906 ms

Below is generated by plot.py at 2018-07-18 13:59:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 896.92 Mbit/s

95th percentile per-packet one-way delay: 9.855 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 528.39 Mbit/s

95th percentile per-packet one-way delay: 10.617 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 391.75 Mbit/s

95th percentile per-packet one-way delay: 4.415 ms

Loss rate: 0.10%

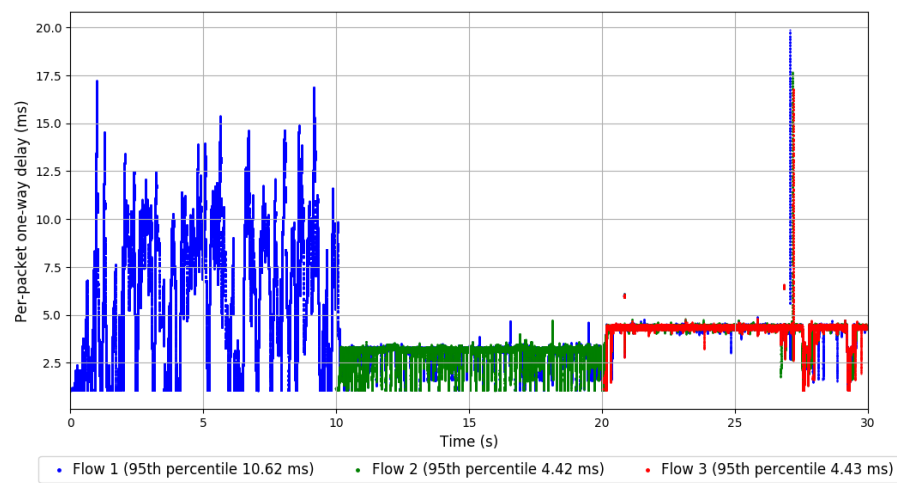
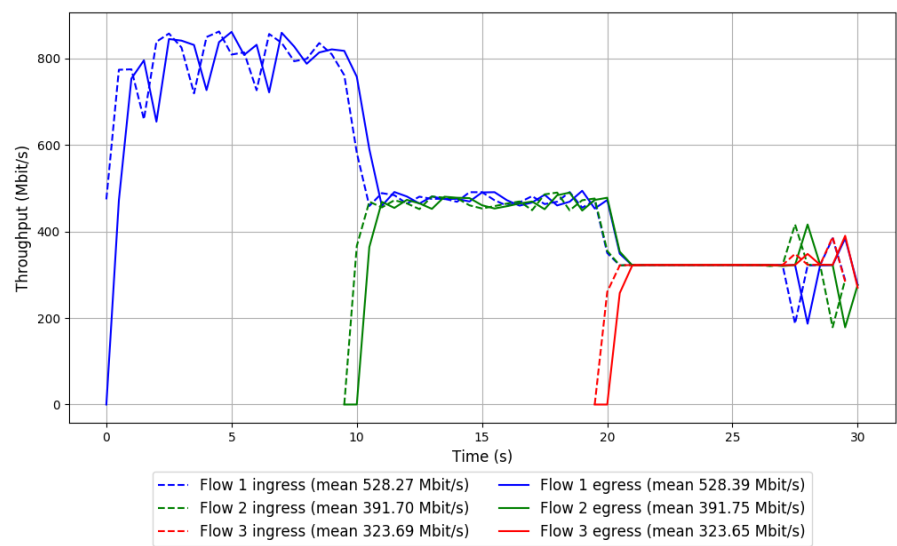
-- Flow 3:

Average throughput: 323.65 Mbit/s

95th percentile per-packet one-way delay: 4.435 ms

Loss rate: 0.22%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-07-18 10:15:08

End at: 2018-07-18 10:15:38

Local clock offset: 3.447 ms

Remote clock offset: 1.429 ms

Below is generated by plot.py at 2018-07-18 13:59:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 891.15 Mbit/s

95th percentile per-packet one-way delay: 8.686 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 525.13 Mbit/s

95th percentile per-packet one-way delay: 9.339 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 389.63 Mbit/s

95th percentile per-packet one-way delay: 4.411 ms

Loss rate: 0.10%

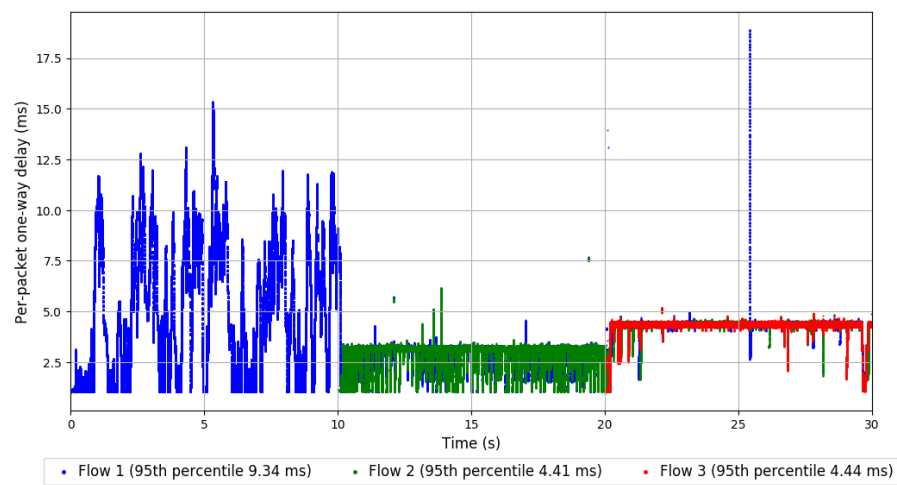
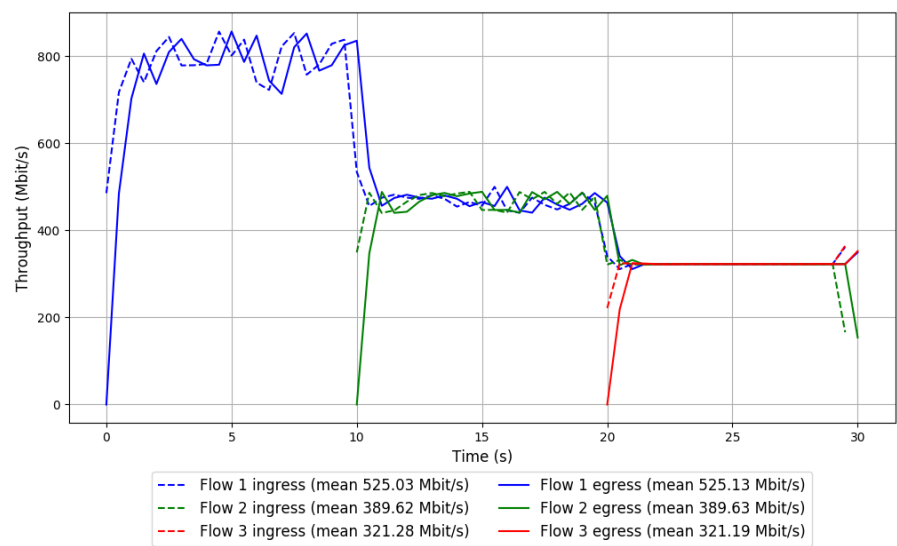
-- Flow 3:

Average throughput: 321.19 Mbit/s

95th percentile per-packet one-way delay: 4.441 ms

Loss rate: 0.23%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-07-18 10:41:57

End at: 2018-07-18 10:42:27

Local clock offset: 2.377 ms

Remote clock offset: 1.813 ms

Below is generated by plot.py at 2018-07-18 13:59:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 895.46 Mbit/s

95th percentile per-packet one-way delay: 8.523 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 524.55 Mbit/s

95th percentile per-packet one-way delay: 9.544 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 394.81 Mbit/s

95th percentile per-packet one-way delay: 4.709 ms

Loss rate: 0.11%

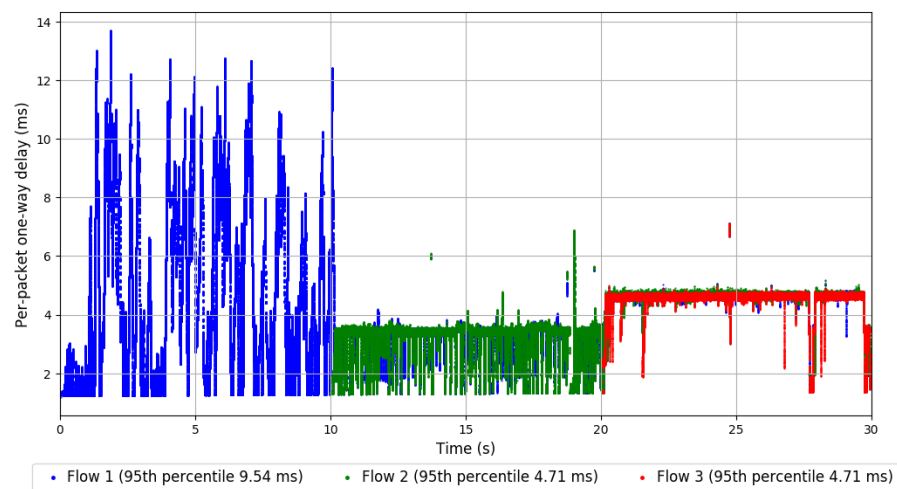
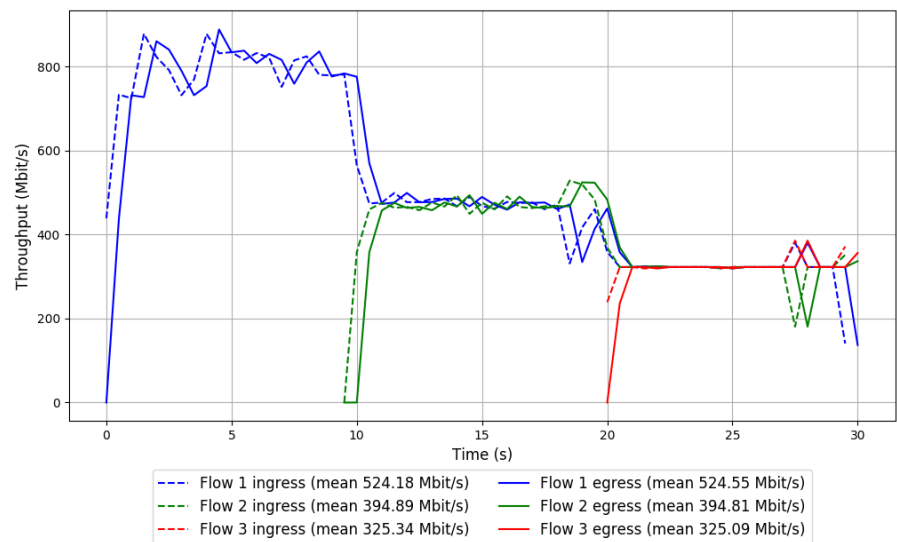
-- Flow 3:

Average throughput: 325.09 Mbit/s

95th percentile per-packet one-way delay: 4.711 ms

Loss rate: 0.28%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-07-18 11:08:52

End at: 2018-07-18 11:09:22

Local clock offset: -0.846 ms

Remote clock offset: 2.057 ms

Below is generated by plot.py at 2018-07-18 14:00:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 904.80 Mbit/s

95th percentile per-packet one-way delay: 10.778 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 536.82 Mbit/s

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

Loss rate: 0.05%

-- Flow 2:

Average throughput: 391.92 Mbit/s

95th percentile per-packet one-way delay: 4.309 ms

Loss rate: 0.10%

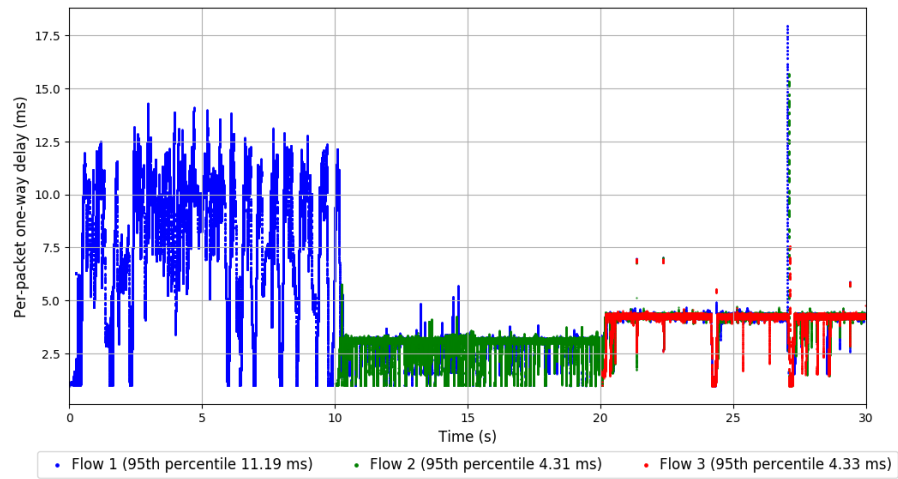
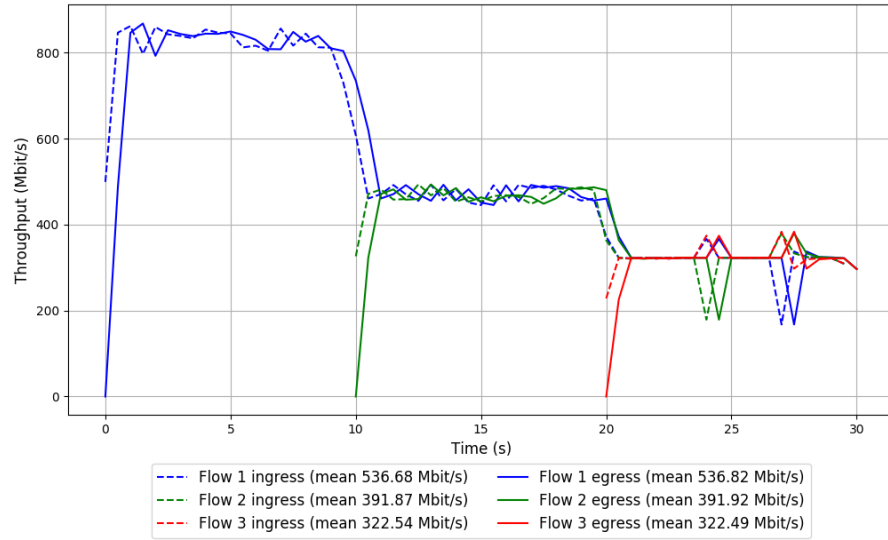
-- Flow 3:

Average throughput: 322.49 Mbit/s

95th percentile per-packet one-way delay: 4.334 ms

Loss rate: 0.23%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-07-18 11:35:46

End at: 2018-07-18 11:36:16

Local clock offset: -0.371 ms

Remote clock offset: 2.137 ms

Below is generated by plot.py at 2018-07-18 14:00:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 895.98 Mbit/s

95th percentile per-packet one-way delay: 9.304 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 525.34 Mbit/s

95th percentile per-packet one-way delay: 9.769 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 394.50 Mbit/s

95th percentile per-packet one-way delay: 4.404 ms

Loss rate: 0.09%

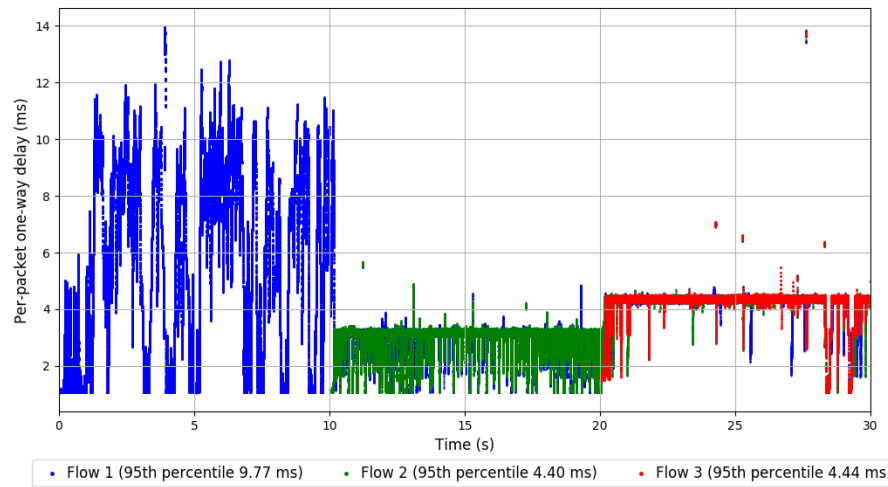
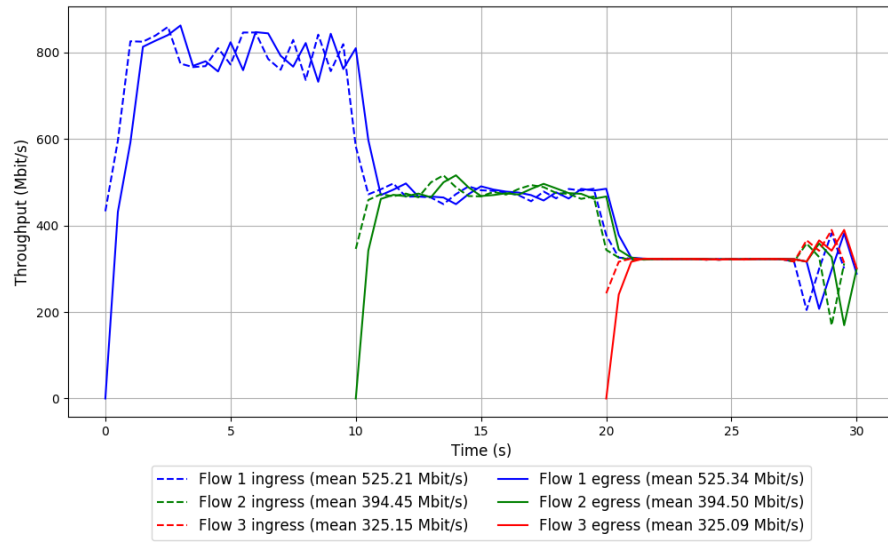
-- Flow 3:

Average throughput: 325.09 Mbit/s

95th percentile per-packet one-way delay: 4.436 ms

Loss rate: 0.23%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-07-18 12:02:46

End at: 2018-07-18 12:03:16

Local clock offset: -0.081 ms

Remote clock offset: 1.992 ms

Below is generated by plot.py at 2018-07-18 14:00:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 897.81 Mbit/s

95th percentile per-packet one-way delay: 9.081 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 524.86 Mbit/s

95th percentile per-packet one-way delay: 9.437 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 398.45 Mbit/s

95th percentile per-packet one-way delay: 4.410 ms

Loss rate: 0.09%

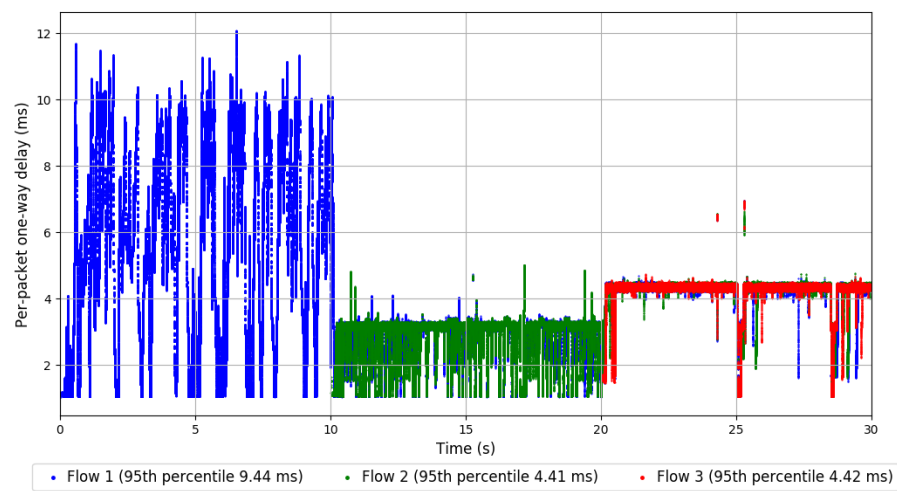
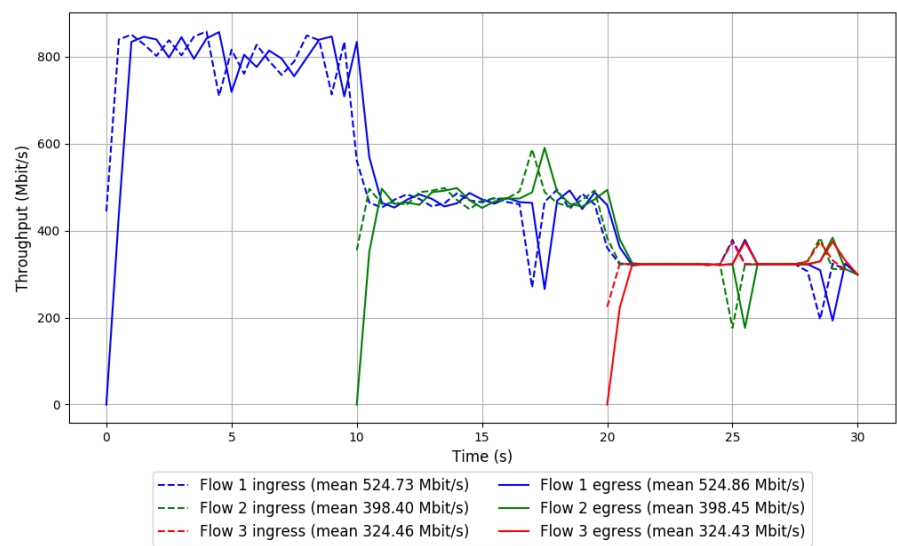
-- Flow 3:

Average throughput: 324.43 Mbit/s

95th percentile per-packet one-way delay: 4.417 ms

Loss rate: 0.22%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-07-18 12:29:37

End at: 2018-07-18 12:30:07

Local clock offset: -3.218 ms

Remote clock offset: 1.383 ms

Below is generated by plot.py at 2018-07-18 14:00:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 901.31 Mbit/s

95th percentile per-packet one-way delay: 11.289 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 533.52 Mbit/s

95th percentile per-packet one-way delay: 11.683 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 390.55 Mbit/s

95th percentile per-packet one-way delay: 4.453 ms

Loss rate: 0.10%

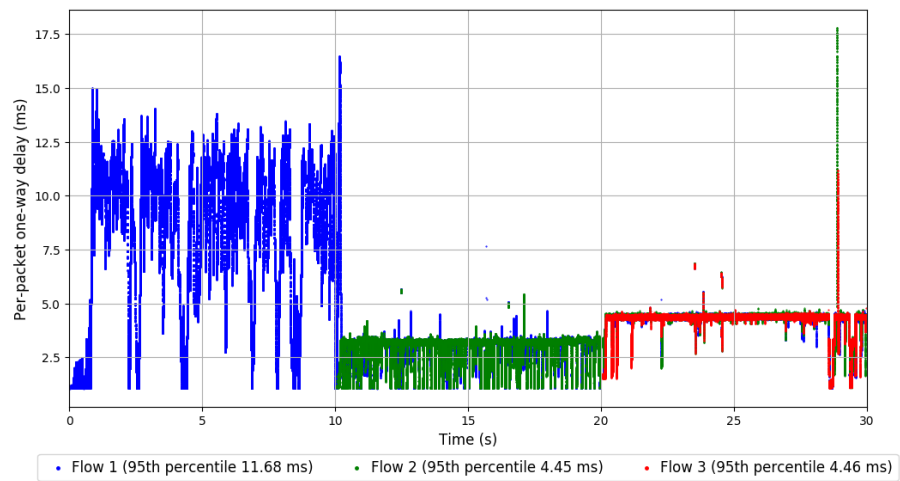
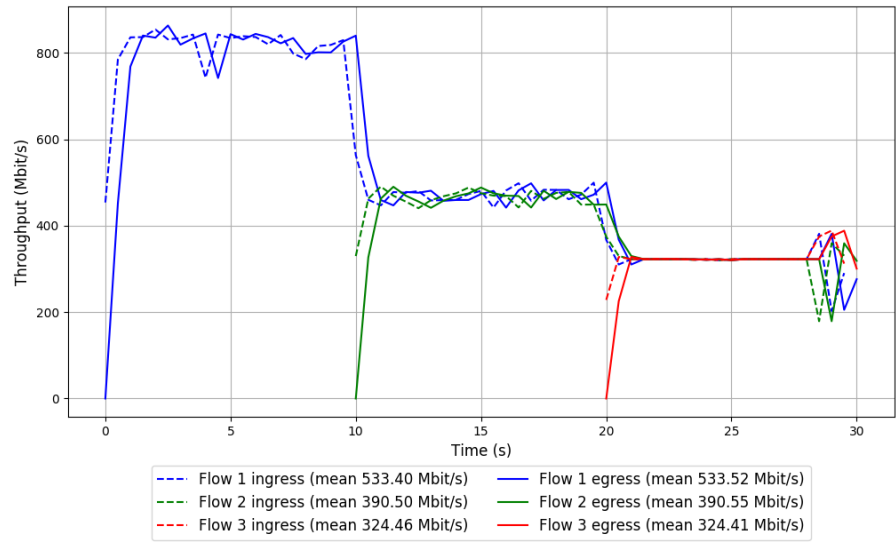
-- Flow 3:

Average throughput: 324.41 Mbit/s

95th percentile per-packet one-way delay: 4.462 ms

Loss rate: 0.23%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-18 12:56:35

End at: 2018-07-18 12:57:05

Local clock offset: 0.087 ms

Remote clock offset: 0.844 ms

Below is generated by plot.py at 2018-07-18 14:09:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 900.88 Mbit/s

95th percentile per-packet one-way delay: 12.409 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 529.75 Mbit/s

95th percentile per-packet one-way delay: 12.761 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 395.98 Mbit/s

95th percentile per-packet one-way delay: 4.226 ms

Loss rate: 0.09%

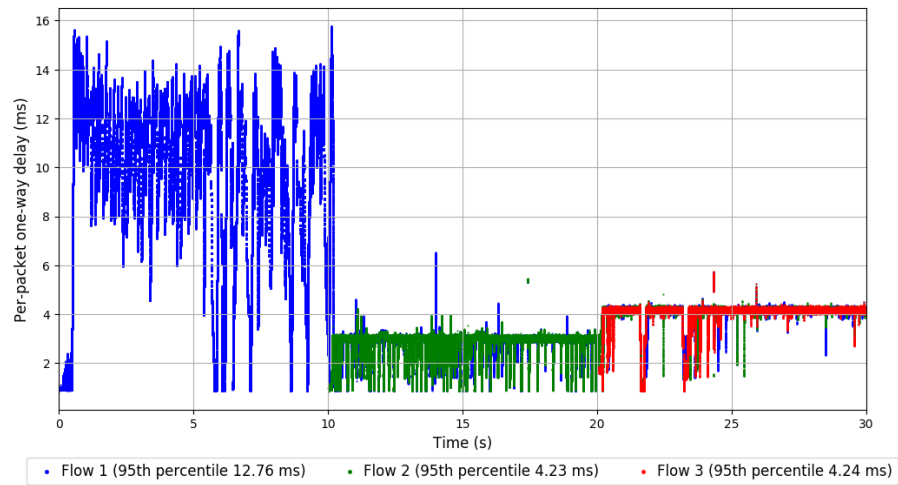
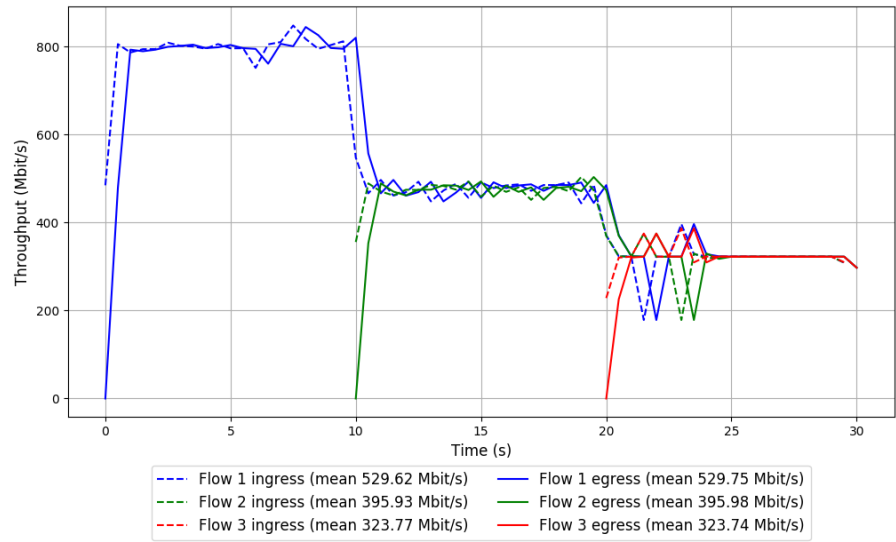
-- Flow 3:

Average throughput: 323.74 Mbit/s

95th percentile per-packet one-way delay: 4.242 ms

Loss rate: 0.23%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-07-18 13:23:35

End at: 2018-07-18 13:24:05

Local clock offset: 3.385 ms

Remote clock offset: 0.465 ms

Below is generated by plot.py at 2018-07-18 14:09:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 888.28 Mbit/s

95th percentile per-packet one-way delay: 8.836 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 517.59 Mbit/s

95th percentile per-packet one-way delay: 9.316 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 396.25 Mbit/s

95th percentile per-packet one-way delay: 4.163 ms

Loss rate: 0.09%

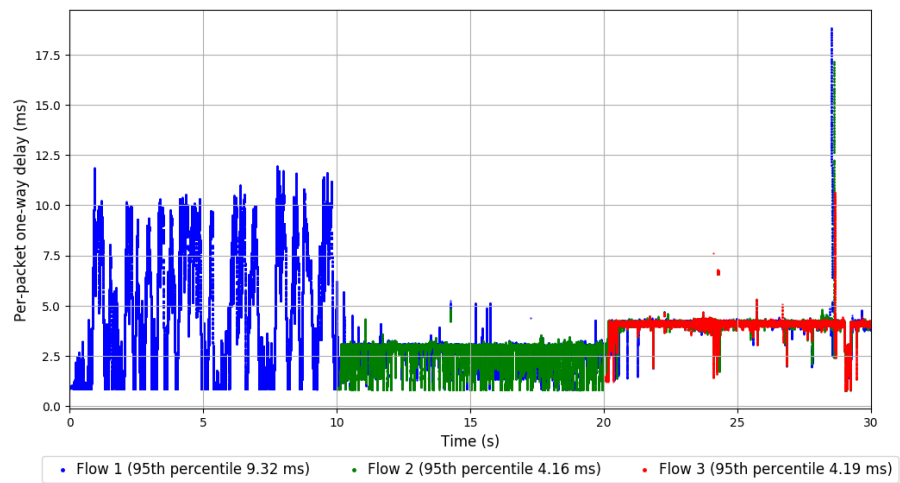
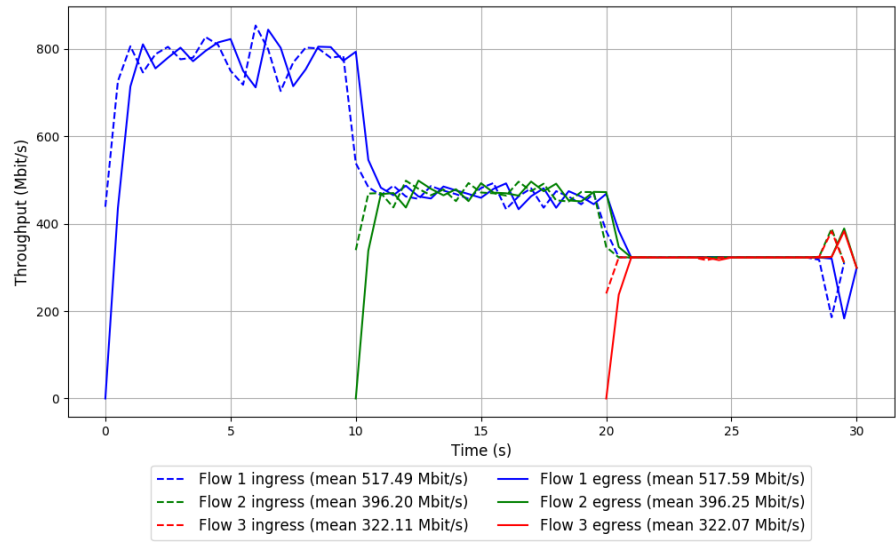
-- Flow 3:

Average throughput: 322.07 Mbit/s

95th percentile per-packet one-way delay: 4.187 ms

Loss rate: 0.22%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-07-18 09:18:08

End at: 2018-07-18 09:18:38

Local clock offset: 0.696 ms

Remote clock offset: 0.1 ms

Below is generated by plot.py at 2018-07-18 14:10:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 530.80 Mbit/s

95th percentile per-packet one-way delay: 0.823 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 334.21 Mbit/s

95th percentile per-packet one-way delay: 0.836 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 238.96 Mbit/s

95th percentile per-packet one-way delay: 0.744 ms

Loss rate: 0.03%

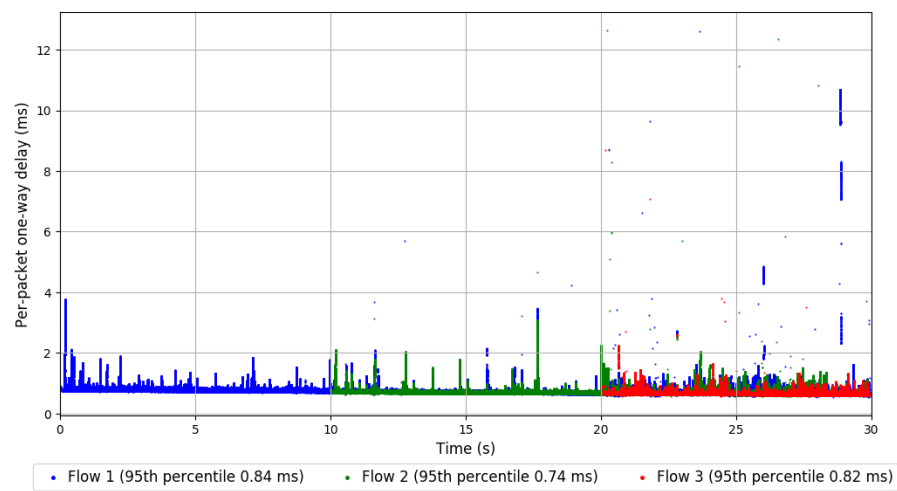
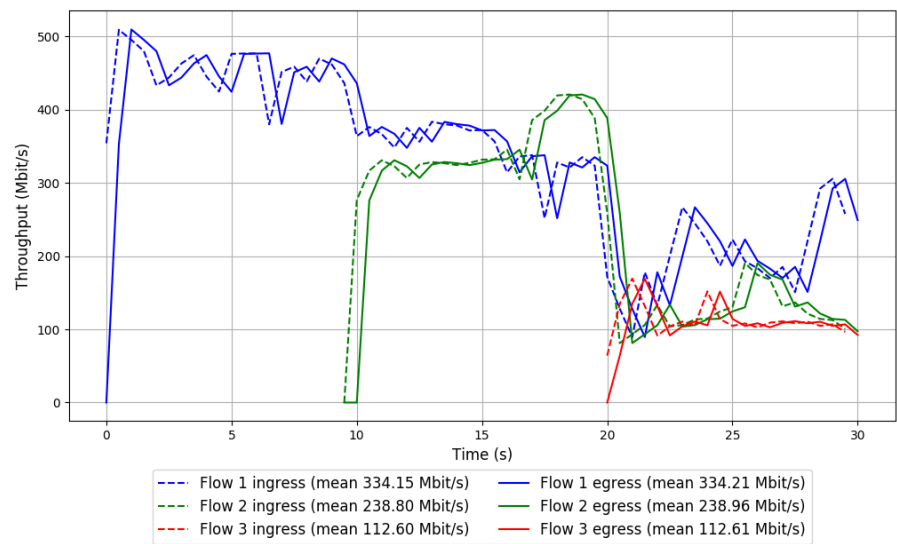
-- Flow 3:

Average throughput: 112.61 Mbit/s

95th percentile per-packet one-way delay: 0.817 ms

Loss rate: 0.19%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-07-18 09:45:05

End at: 2018-07-18 09:45:35

Local clock offset: 3.678 ms

Remote clock offset: 0.839 ms

Below is generated by plot.py at 2018-07-18 14:10:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 483.90 Mbit/s

95th percentile per-packet one-way delay: 1.173 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 300.89 Mbit/s

95th percentile per-packet one-way delay: 1.166 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 220.59 Mbit/s

95th percentile per-packet one-way delay: 1.153 ms

Loss rate: 0.05%

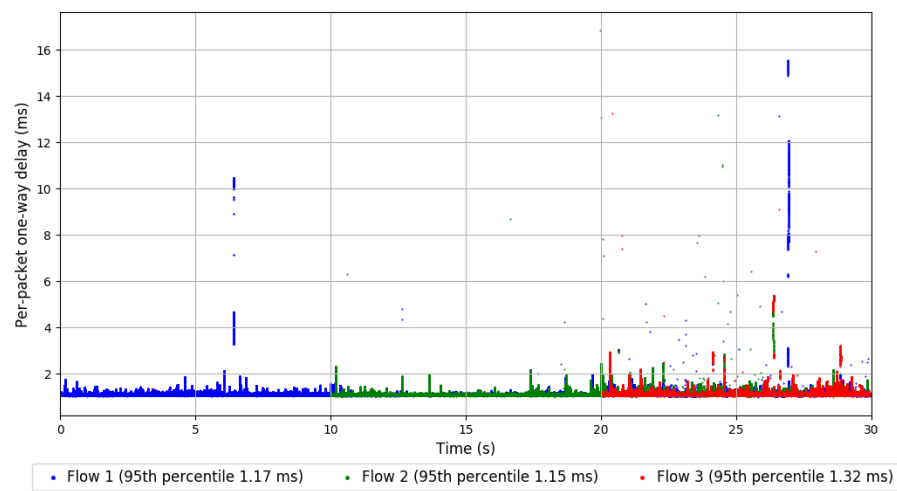
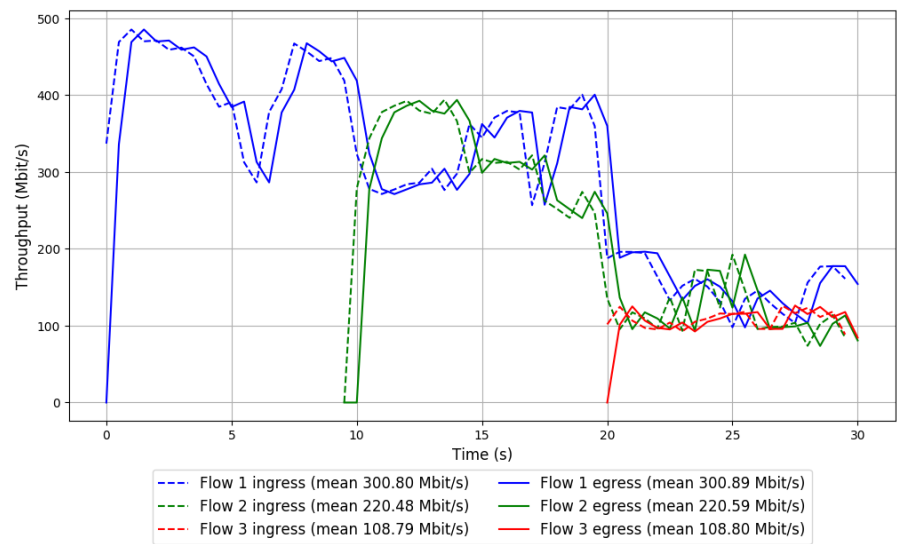
-- Flow 3:

Average throughput: 108.80 Mbit/s

95th percentile per-packet one-way delay: 1.320 ms

Loss rate: 0.22%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-07-18 10:12:01

End at: 2018-07-18 10:12:31

Local clock offset: 3.601 ms

Remote clock offset: 1.368 ms

Below is generated by plot.py at 2018-07-18 14:10:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 515.44 Mbit/s

95th percentile per-packet one-way delay: 1.289 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 314.58 Mbit/s

95th percentile per-packet one-way delay: 1.223 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 240.94 Mbit/s

95th percentile per-packet one-way delay: 1.643 ms

Loss rate: 0.06%

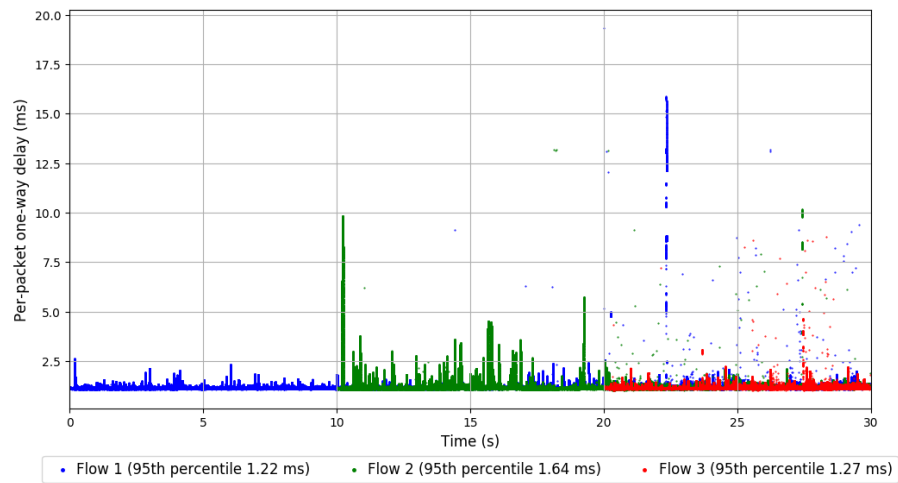
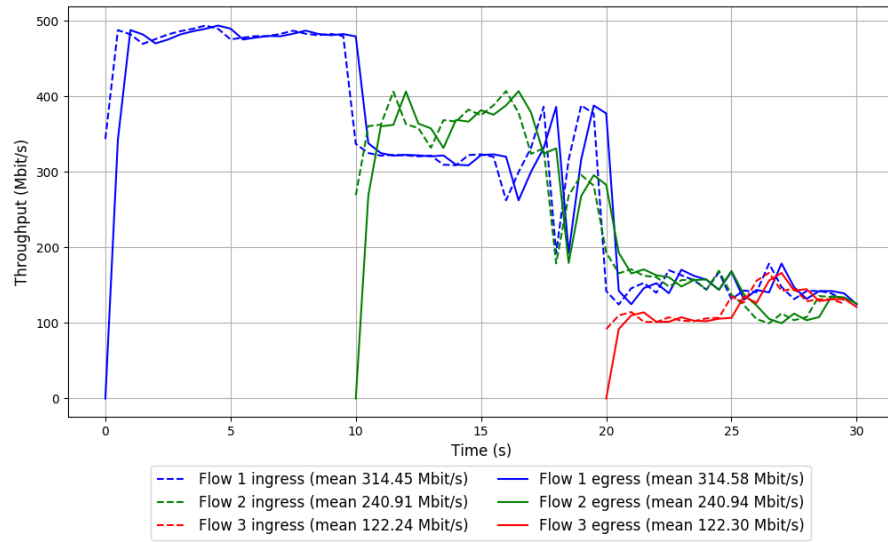
-- Flow 3:

Average throughput: 122.30 Mbit/s

95th percentile per-packet one-way delay: 1.273 ms

Loss rate: 0.19%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-07-18 10:38:50

End at: 2018-07-18 10:39:20

Local clock offset: 3.321 ms

Remote clock offset: 1.803 ms

Below is generated by plot.py at 2018-07-18 14:10:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 503.33 Mbit/s

95th percentile per-packet one-way delay: 1.346 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 307.08 Mbit/s

95th percentile per-packet one-way delay: 1.335 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 220.72 Mbit/s

95th percentile per-packet one-way delay: 1.346 ms

Loss rate: 0.04%

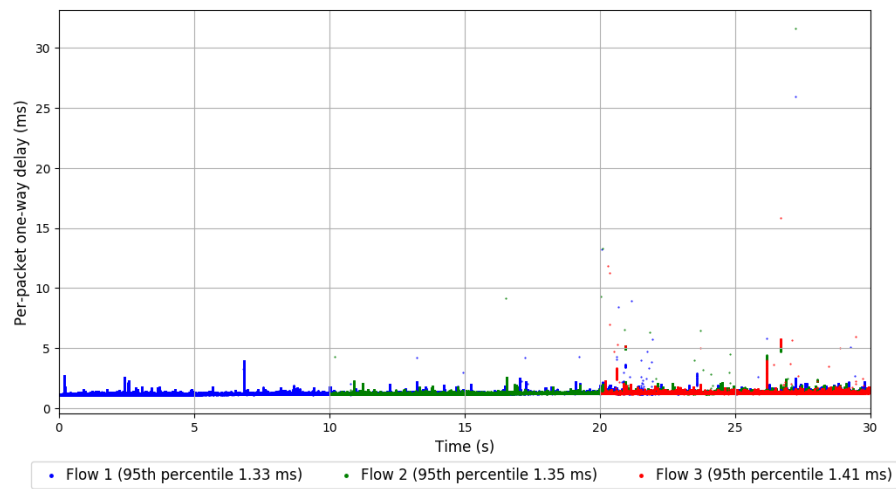
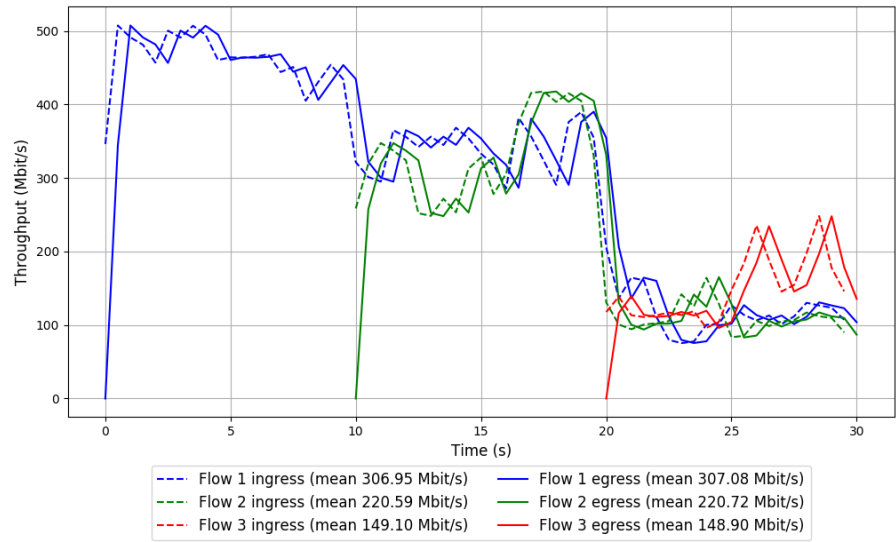
-- Flow 3:

Average throughput: 148.90 Mbit/s

95th percentile per-packet one-way delay: 1.407 ms

Loss rate: 0.37%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-07-18 11:05:46

End at: 2018-07-18 11:06:16

Local clock offset: -0.795 ms

Remote clock offset: 2.044 ms

Below is generated by plot.py at 2018-07-18 14:10:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 490.19 Mbit/s

95th percentile per-packet one-way delay: 1.200 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 291.02 Mbit/s

95th percentile per-packet one-way delay: 1.203 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 236.20 Mbit/s

95th percentile per-packet one-way delay: 1.191 ms

Loss rate: 0.07%

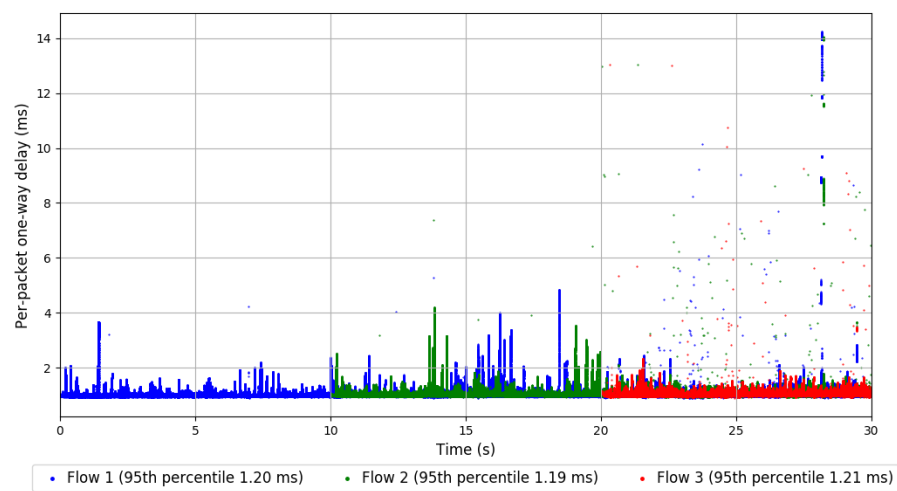
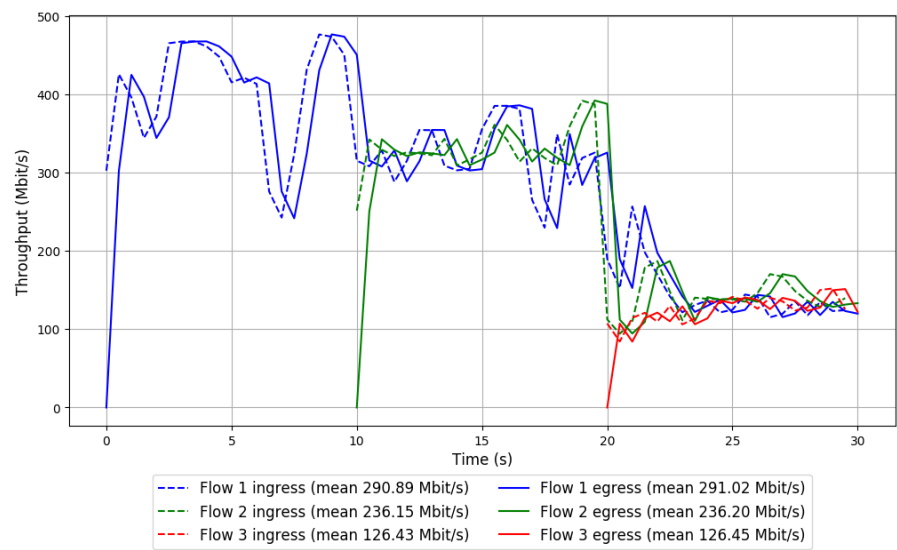
-- Flow 3:

Average throughput: 126.45 Mbit/s

95th percentile per-packet one-way delay: 1.207 ms

Loss rate: 0.19%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-07-18 11:32:40

End at: 2018-07-18 11:33:10

Local clock offset: -0.292 ms

Remote clock offset: 2.156 ms

Below is generated by plot.py at 2018-07-18 14:10:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 493.67 Mbit/s

95th percentile per-packet one-way delay: 1.268 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 310.49 Mbit/s

95th percentile per-packet one-way delay: 1.196 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 225.28 Mbit/s

95th percentile per-packet one-way delay: 1.416 ms

Loss rate: 0.04%

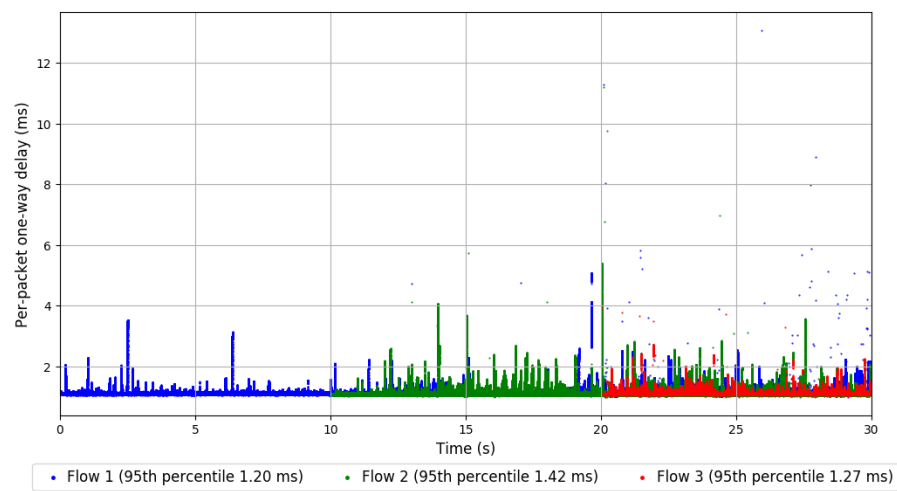
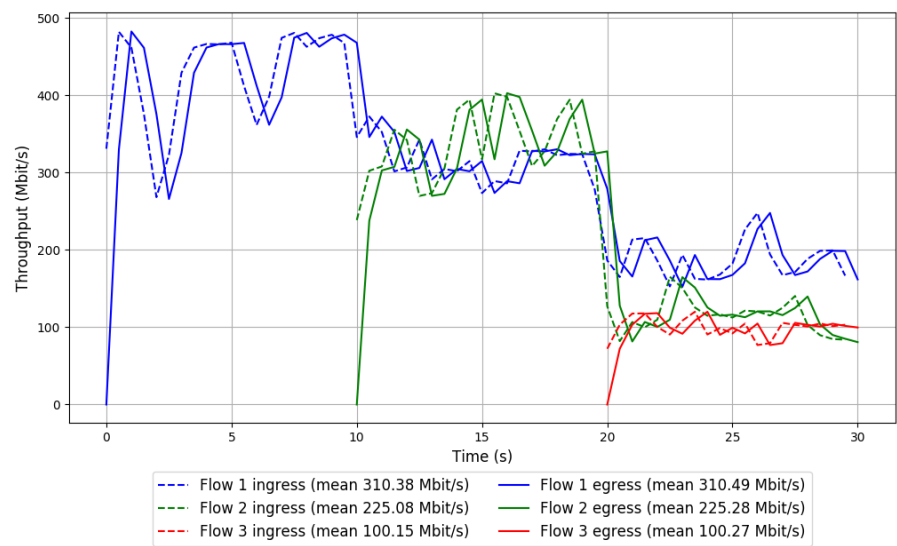
-- Flow 3:

Average throughput: 100.27 Mbit/s

95th percentile per-packet one-way delay: 1.269 ms

Loss rate: 0.18%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-07-18 11:59:39

End at: 2018-07-18 12:00:09

Local clock offset: -0.072 ms

Remote clock offset: 2.045 ms

Below is generated by plot.py at 2018-07-18 14:19:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 503.40 Mbit/s

95th percentile per-packet one-way delay: 1.483 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 290.66 Mbit/s

95th percentile per-packet one-way delay: 1.521 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 236.29 Mbit/s

95th percentile per-packet one-way delay: 1.505 ms

Loss rate: 0.05%

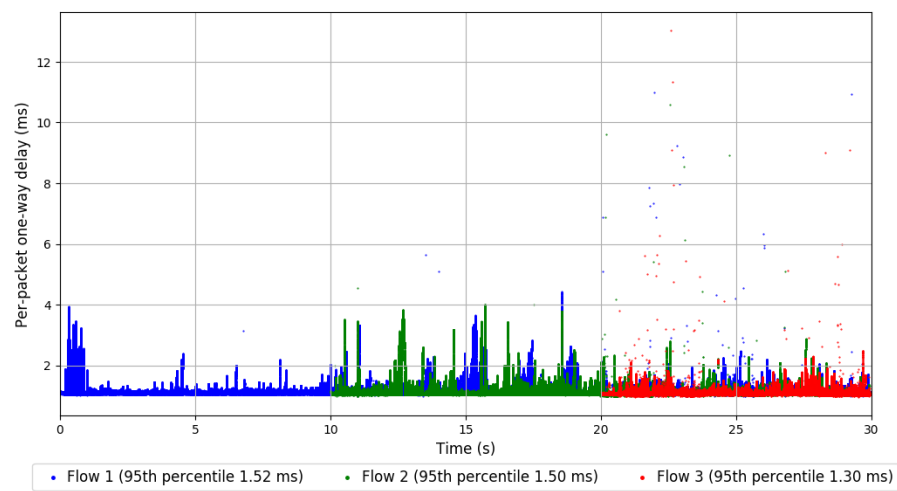
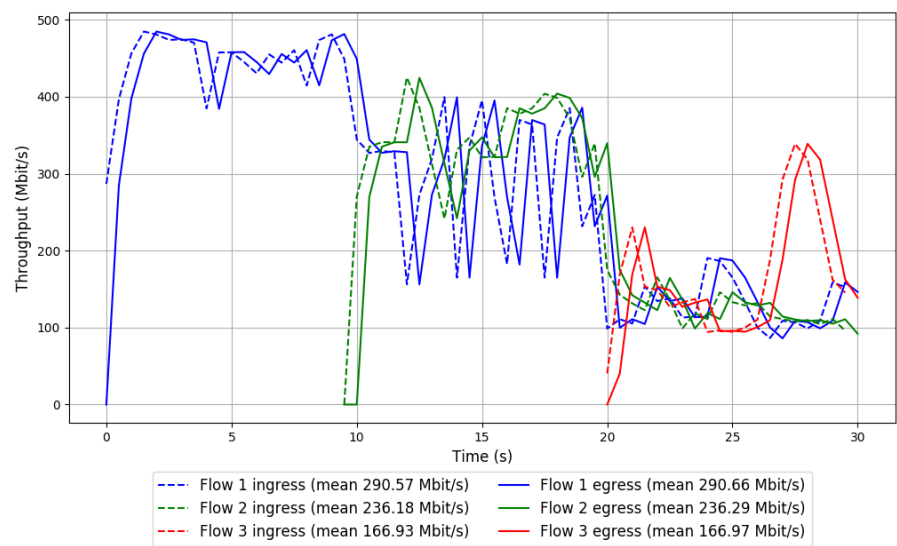
-- Flow 3:

Average throughput: 166.97 Mbit/s

95th percentile per-packet one-way delay: 1.298 ms

Loss rate: 0.21%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-07-18 12:26:31

End at: 2018-07-18 12:27:01

Local clock offset: -2.983 ms

Remote clock offset: 1.499 ms

Below is generated by plot.py at 2018-07-18 14:19:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 508.01 Mbit/s

95th percentile per-packet one-way delay: 1.173 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 302.81 Mbit/s

95th percentile per-packet one-way delay: 1.155 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 234.34 Mbit/s

95th percentile per-packet one-way delay: 1.186 ms

Loss rate: 0.05%

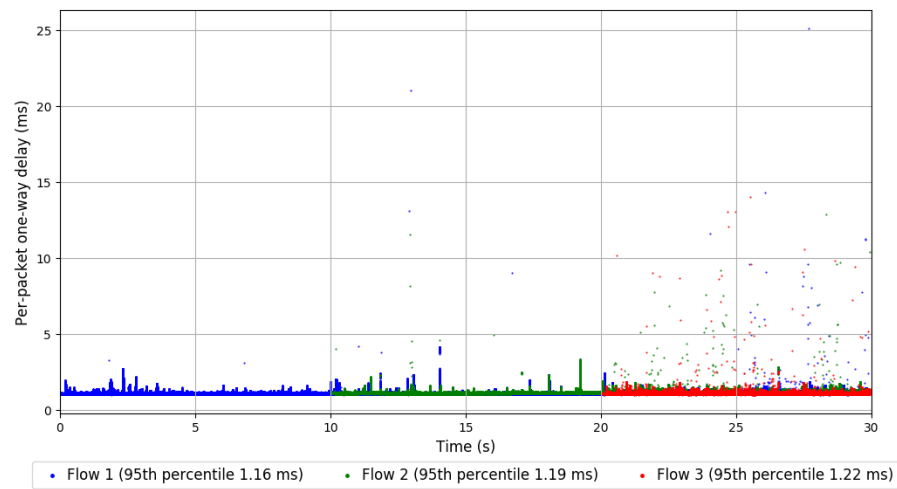
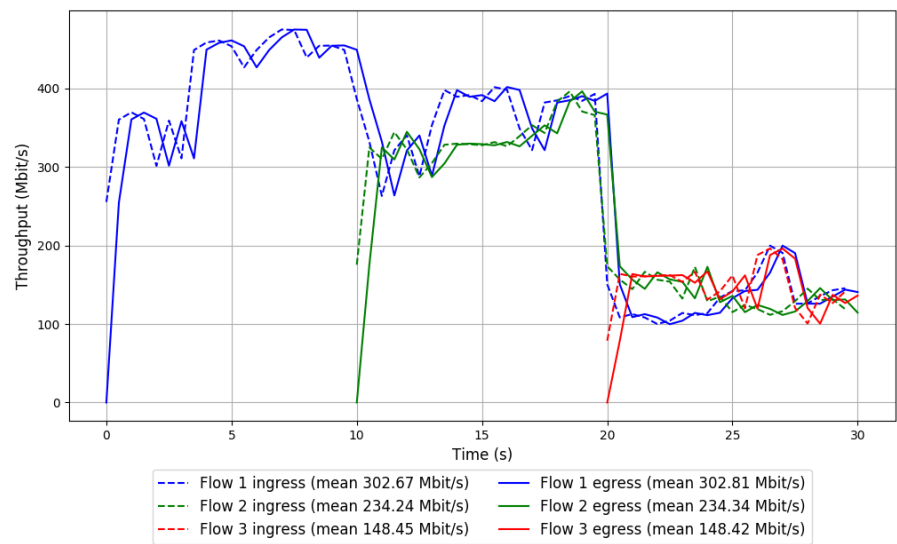
-- Flow 3:

Average throughput: 148.42 Mbit/s

95th percentile per-packet one-way delay: 1.223 ms

Loss rate: 0.19%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-07-18 12:53:29

End at: 2018-07-18 12:53:59

Local clock offset: -0.173 ms

Remote clock offset: 0.857 ms

Below is generated by plot.py at 2018-07-18 14:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 498.85 Mbit/s

95th percentile per-packet one-way delay: 1.052 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 286.67 Mbit/s

95th percentile per-packet one-way delay: 1.077 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 237.20 Mbit/s

95th percentile per-packet one-way delay: 1.005 ms

Loss rate: 0.05%

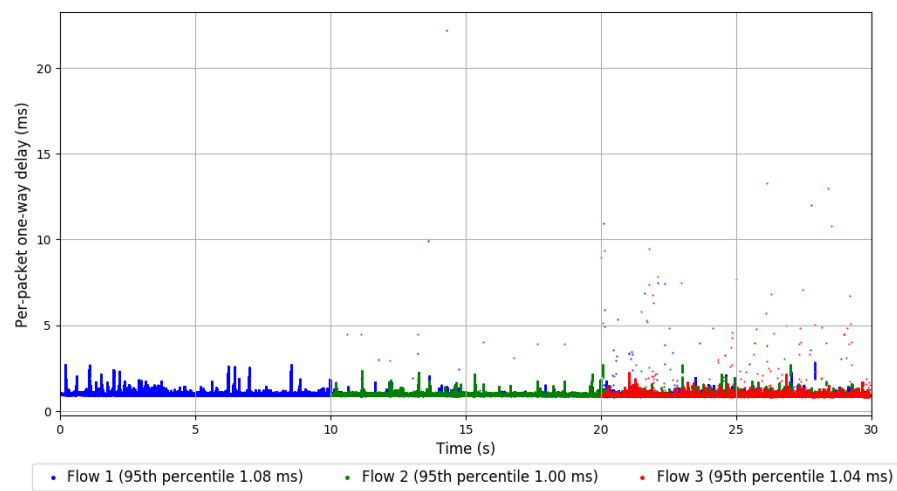
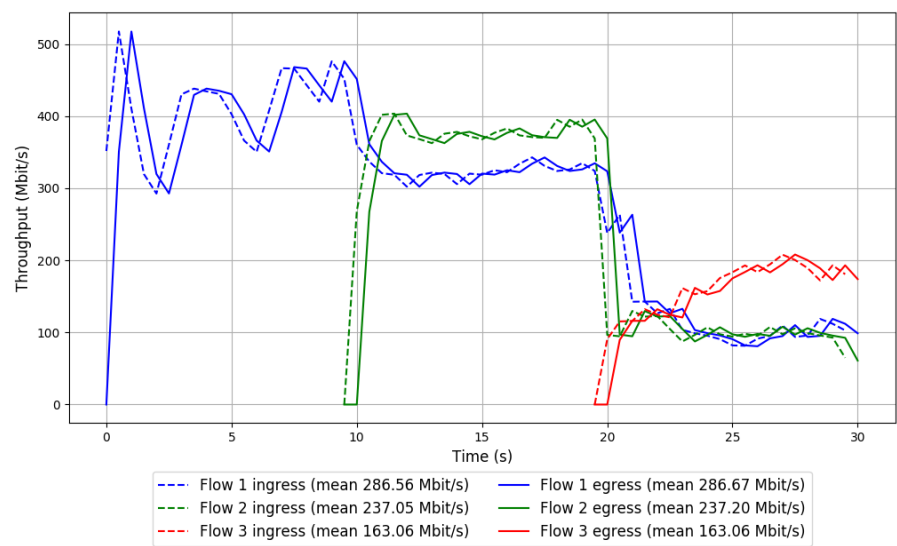
-- Flow 3:

Average throughput: 163.06 Mbit/s

95th percentile per-packet one-way delay: 1.042 ms

Loss rate: 0.21%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-07-18 13:20:31

End at: 2018-07-18 13:21:01

Local clock offset: 2.929 ms

Remote clock offset: 0.385 ms

Below is generated by plot.py at 2018-07-18 14:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 476.74 Mbit/s

95th percentile per-packet one-way delay: 0.994 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 292.67 Mbit/s

95th percentile per-packet one-way delay: 1.045 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 215.25 Mbit/s

95th percentile per-packet one-way delay: 0.928 ms

Loss rate: 0.03%

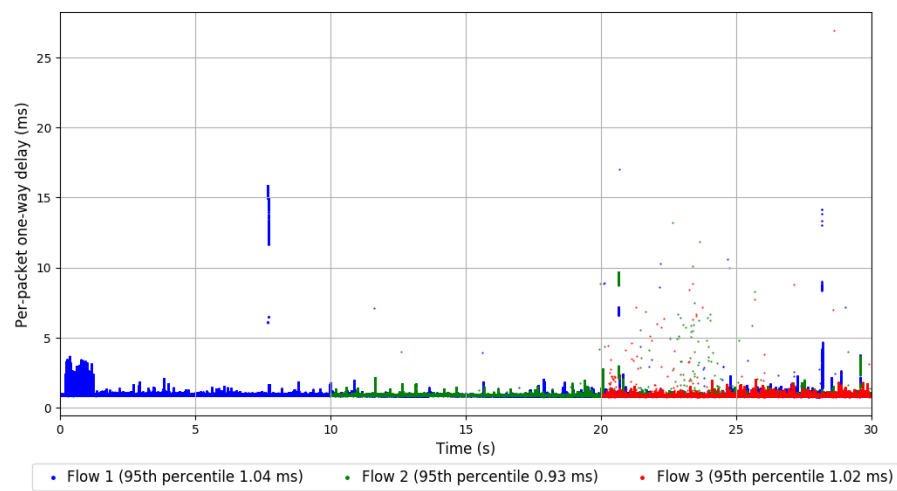
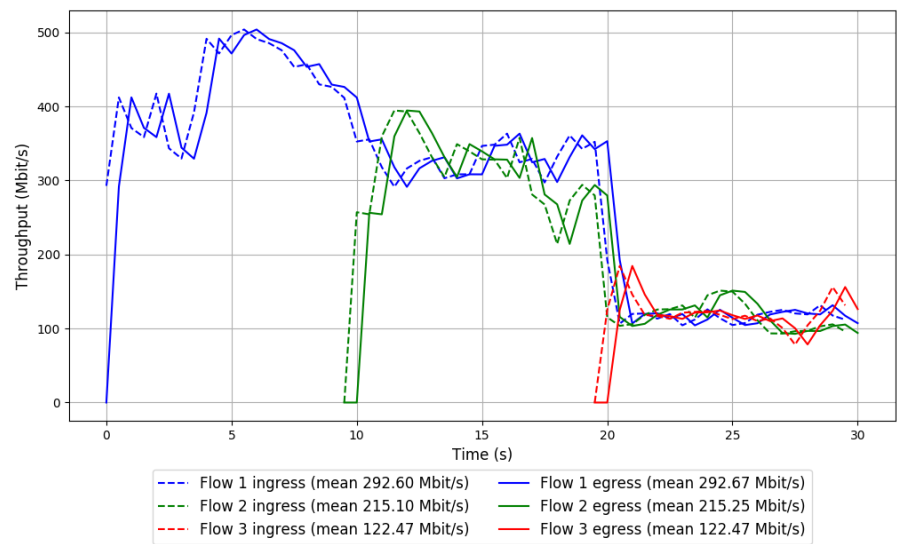
-- Flow 3:

Average throughput: 122.47 Mbit/s

95th percentile per-packet one-way delay: 1.016 ms

Loss rate: 0.21%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-07-18 09:13:26

End at: 2018-07-18 09:13:56

Local clock offset: -1.417 ms

Remote clock offset: 0.027 ms

Below is generated by plot.py at 2018-07-18 14:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 830.50 Mbit/s

95th percentile per-packet one-way delay: 3.790 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 461.64 Mbit/s

95th percentile per-packet one-way delay: 3.785 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 395.12 Mbit/s

95th percentile per-packet one-way delay: 3.781 ms

Loss rate: 0.09%

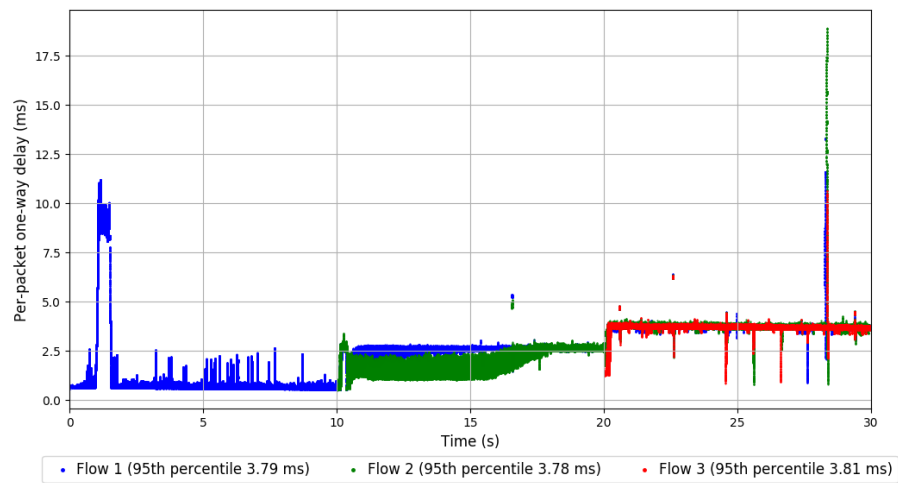
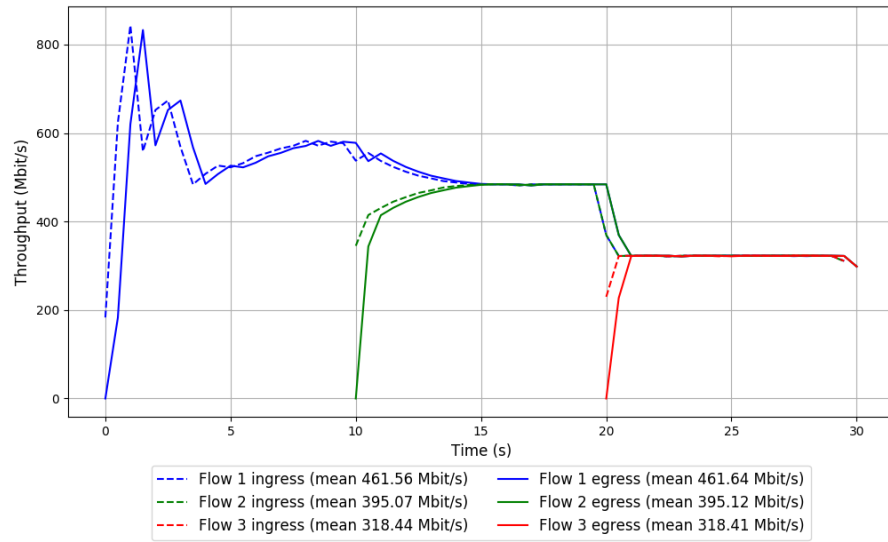
-- Flow 3:

Average throughput: 318.41 Mbit/s

95th percentile per-packet one-way delay: 3.808 ms

Loss rate: 0.24%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-07-18 09:40:24

End at: 2018-07-18 09:40:54

Local clock offset: 3.967 ms

Remote clock offset: 0.725 ms

Below is generated by plot.py at 2018-07-18 14:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 817.69 Mbit/s

95th percentile per-packet one-way delay: 4.500 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 451.82 Mbit/s

95th percentile per-packet one-way delay: 4.492 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 391.31 Mbit/s

95th percentile per-packet one-way delay: 4.501 ms

Loss rate: 0.10%

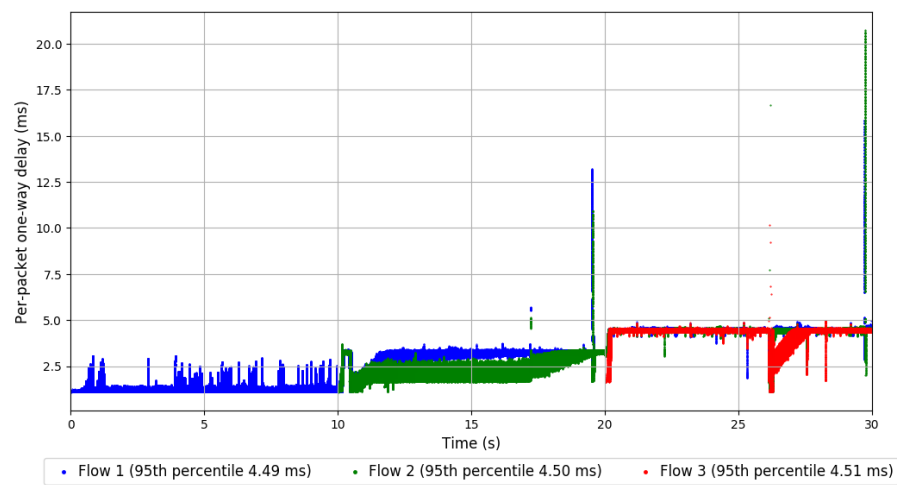
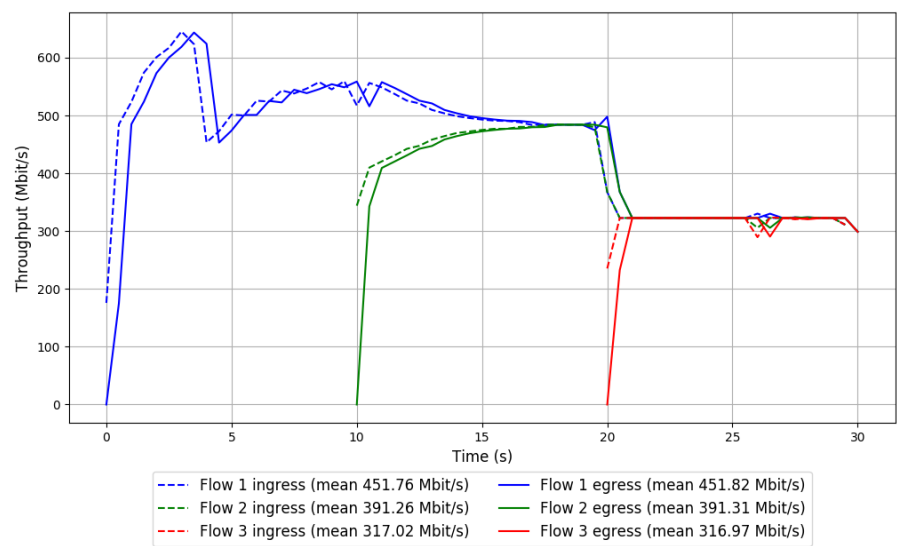
-- Flow 3:

Average throughput: 316.97 Mbit/s

95th percentile per-packet one-way delay: 4.513 ms

Loss rate: 0.24%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

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

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

Local clock offset: 3.702 ms

Remote clock offset: 1.315 ms

Below is generated by plot.py at 2018-07-18 14:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 804.76 Mbit/s

95th percentile per-packet one-way delay: 4.290 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 437.30 Mbit/s

95th percentile per-packet one-way delay: 4.271 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 392.21 Mbit/s

95th percentile per-packet one-way delay: 4.288 ms

Loss rate: 0.10%

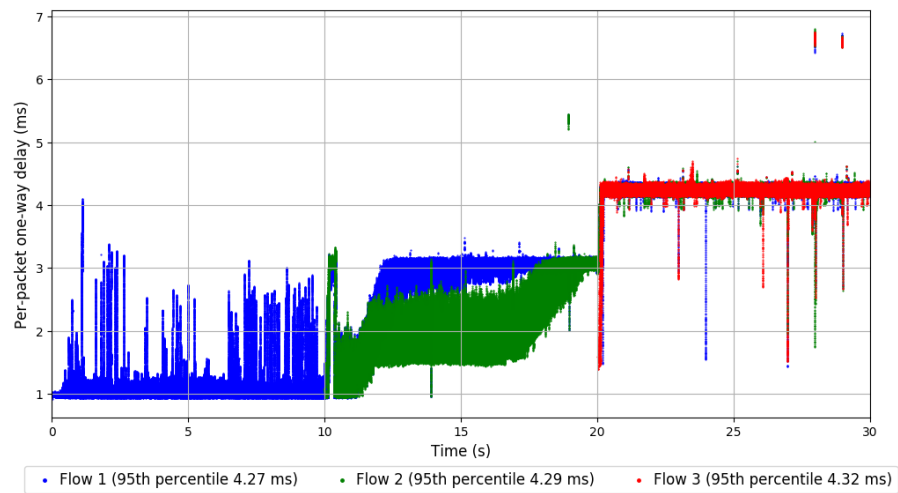
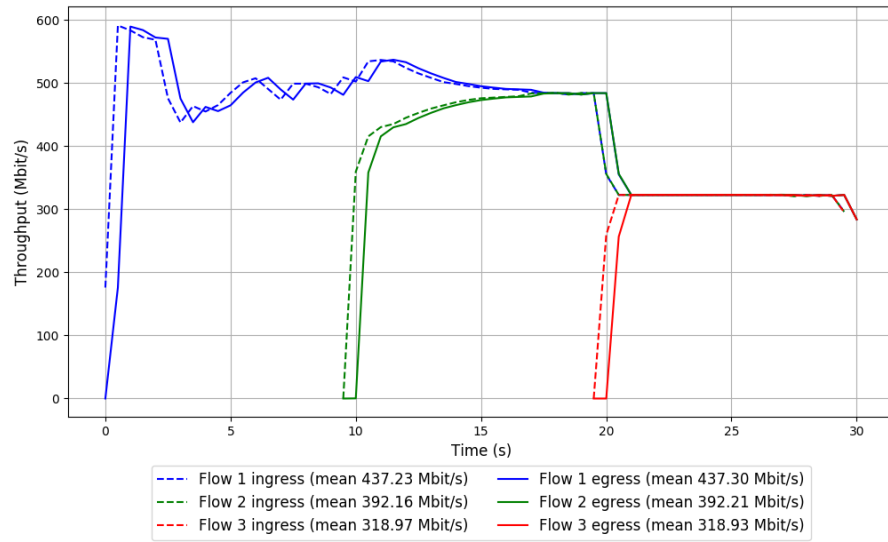
-- Flow 3:

Average throughput: 318.93 Mbit/s

95th percentile per-packet one-way delay: 4.318 ms

Loss rate: 0.22%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-07-18 10:34:11

End at: 2018-07-18 10:34:41

Local clock offset: 3.263 ms

Remote clock offset: 1.715 ms

Below is generated by plot.py at 2018-07-18 14:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 794.31 Mbit/s

95th percentile per-packet one-way delay: 4.264 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 422.92 Mbit/s

95th percentile per-packet one-way delay: 4.252 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 399.15 Mbit/s

95th percentile per-packet one-way delay: 4.270 ms

Loss rate: 0.09%

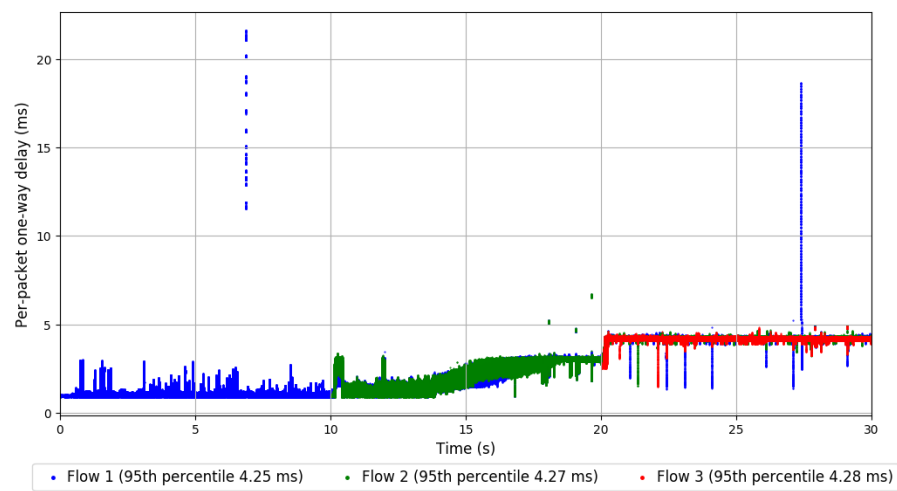
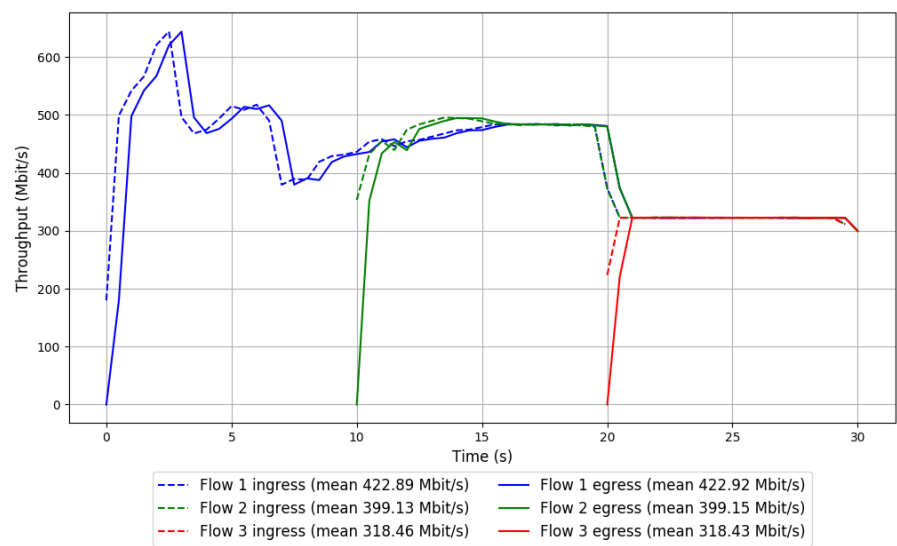
-- Flow 3:

Average throughput: 318.43 Mbit/s

95th percentile per-packet one-way delay: 4.278 ms

Loss rate: 0.23%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-07-18 11:01:05

End at: 2018-07-18 11:01:35

Local clock offset: -0.443 ms

Remote clock offset: 2.059 ms

Below is generated by plot.py at 2018-07-18 14:27:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 735.67 Mbit/s

95th percentile per-packet one-way delay: 4.249 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 291.00 Mbit/s

95th percentile per-packet one-way delay: 2.278 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 491.30 Mbit/s

95th percentile per-packet one-way delay: 4.268 ms

Loss rate: 0.09%

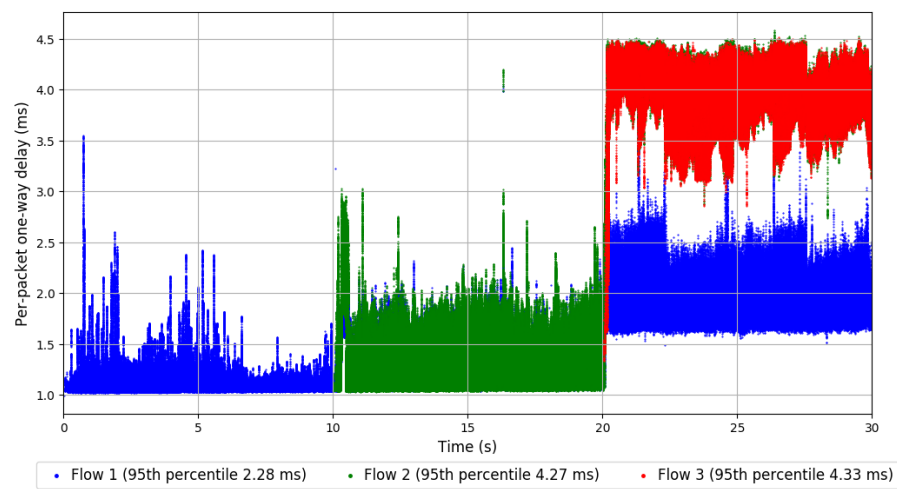
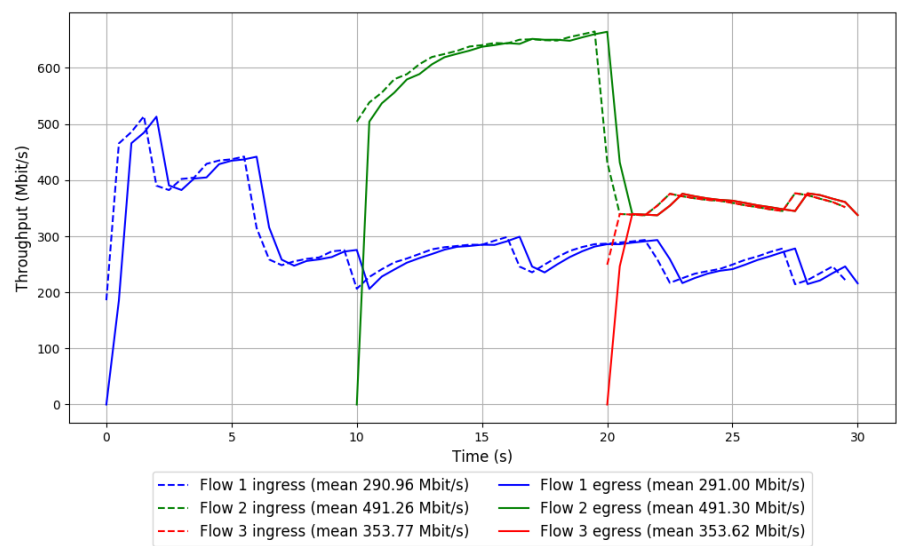
-- Flow 3:

Average throughput: 353.62 Mbit/s

95th percentile per-packet one-way delay: 4.327 ms

Loss rate: 0.24%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-07-18 11:28:01

End at: 2018-07-18 11:28:31

Local clock offset: -0.225 ms

Remote clock offset: 2.236 ms

Below is generated by plot.py at 2018-07-18 14:27:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 805.47 Mbit/s

95th percentile per-packet one-way delay: 4.369 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 438.62 Mbit/s

95th percentile per-packet one-way delay: 4.350 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 391.65 Mbit/s

95th percentile per-packet one-way delay: 4.377 ms

Loss rate: 0.10%

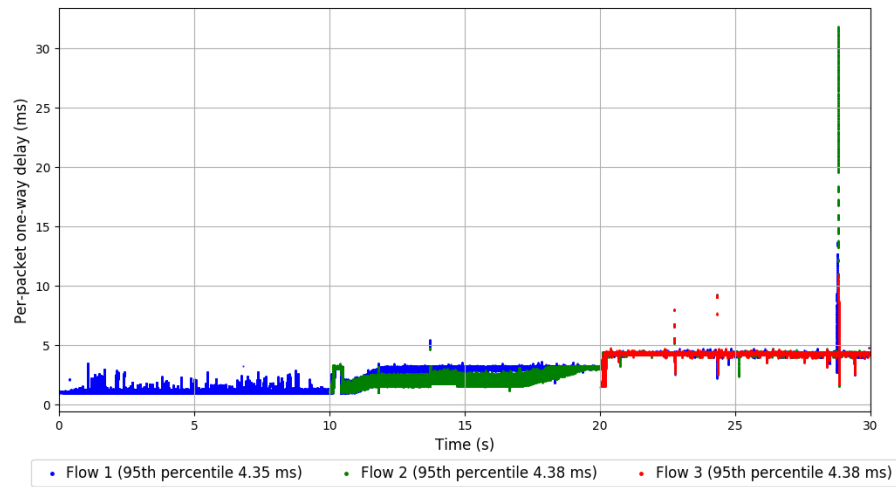
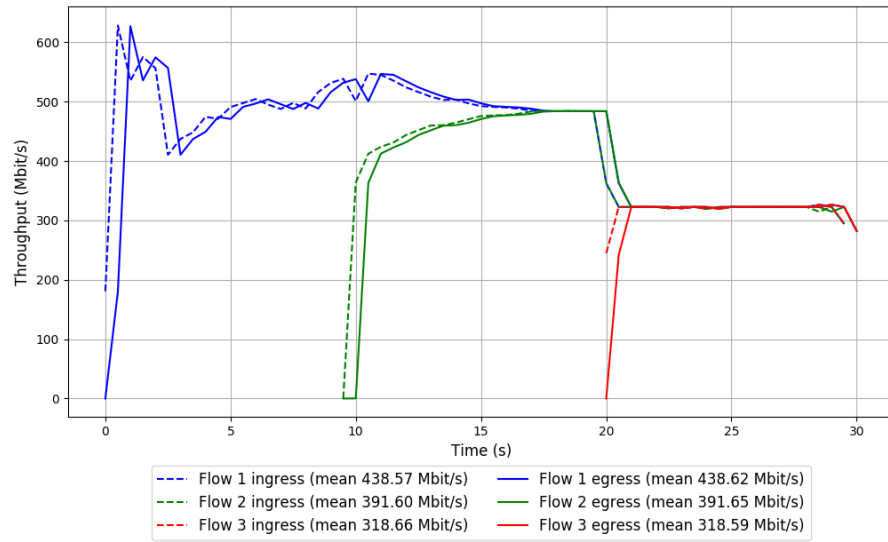
-- Flow 3:

Average throughput: 318.59 Mbit/s

95th percentile per-packet one-way delay: 4.385 ms

Loss rate: 0.24%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-07-18 11:54:58

End at: 2018-07-18 11:55:28

Local clock offset: -0.08 ms

Remote clock offset: 2.062 ms

Below is generated by plot.py at 2018-07-18 14:27:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 806.82 Mbit/s

95th percentile per-packet one-way delay: 4.323 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 440.70 Mbit/s

95th percentile per-packet one-way delay: 4.311 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 390.99 Mbit/s

95th percentile per-packet one-way delay: 4.320 ms

Loss rate: 0.10%

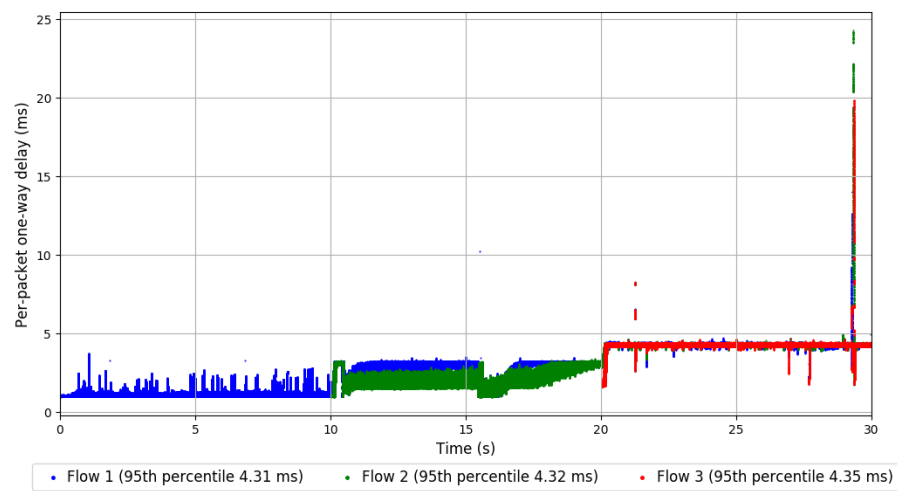
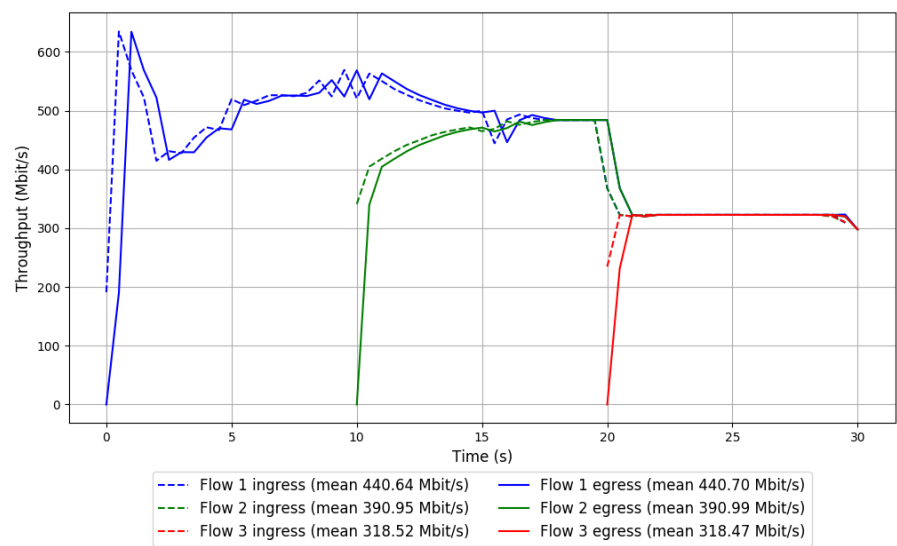
-- Flow 3:

Average throughput: 318.47 Mbit/s

95th percentile per-packet one-way delay: 4.346 ms

Loss rate: 0.24%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-07-18 12:21:50

End at: 2018-07-18 12:22:20

Local clock offset: -2.668 ms

Remote clock offset: 1.553 ms

Below is generated by plot.py at 2018-07-18 14:27:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 805.88 Mbit/s

95th percentile per-packet one-way delay: 4.423 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 439.26 Mbit/s

95th percentile per-packet one-way delay: 4.391 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 391.65 Mbit/s

95th percentile per-packet one-way delay: 4.440 ms

Loss rate: 0.10%

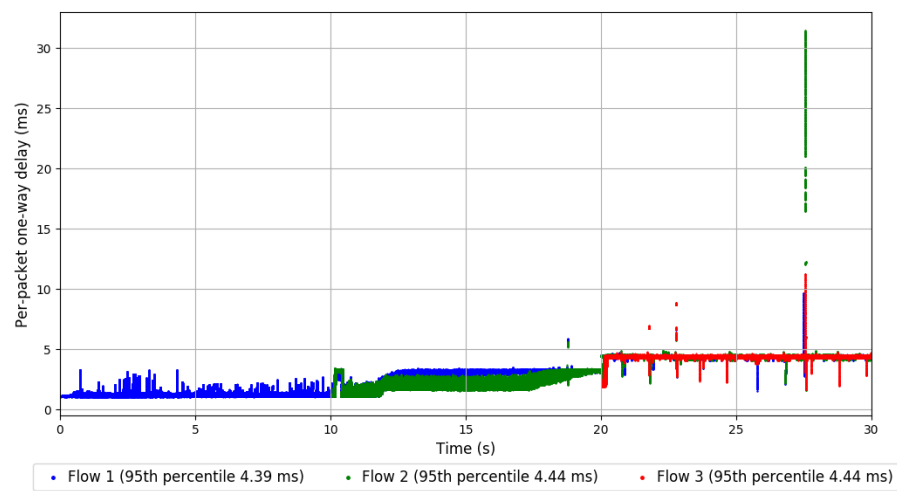
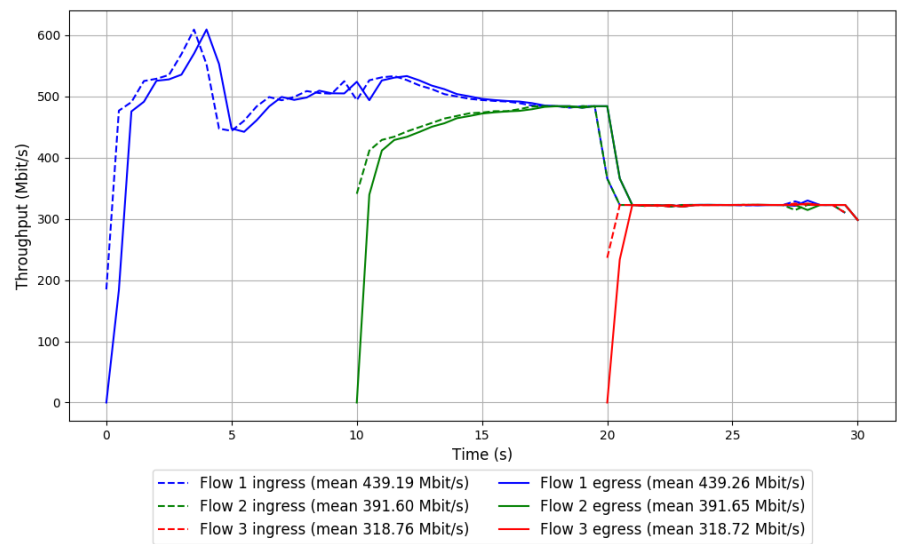
-- Flow 3:

Average throughput: 318.72 Mbit/s

95th percentile per-packet one-way delay: 4.443 ms

Loss rate: 0.23%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-07-18 12:48:46

End at: 2018-07-18 12:49:16

Local clock offset: -0.908 ms

Remote clock offset: 0.911 ms

Below is generated by plot.py at 2018-07-18 14:28:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 811.97 Mbit/s

95th percentile per-packet one-way delay: 4.119 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 447.55 Mbit/s

95th percentile per-packet one-way delay: 4.090 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 387.65 Mbit/s

95th percentile per-packet one-way delay: 4.124 ms

Loss rate: 0.09%

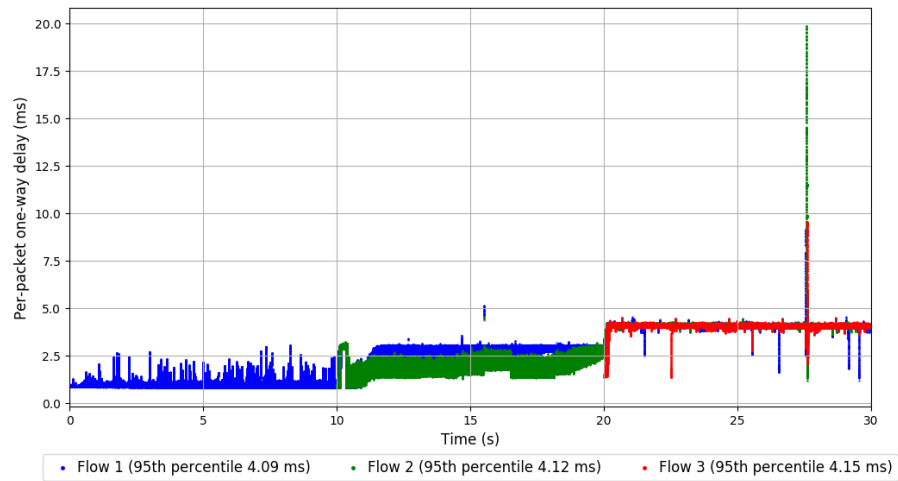
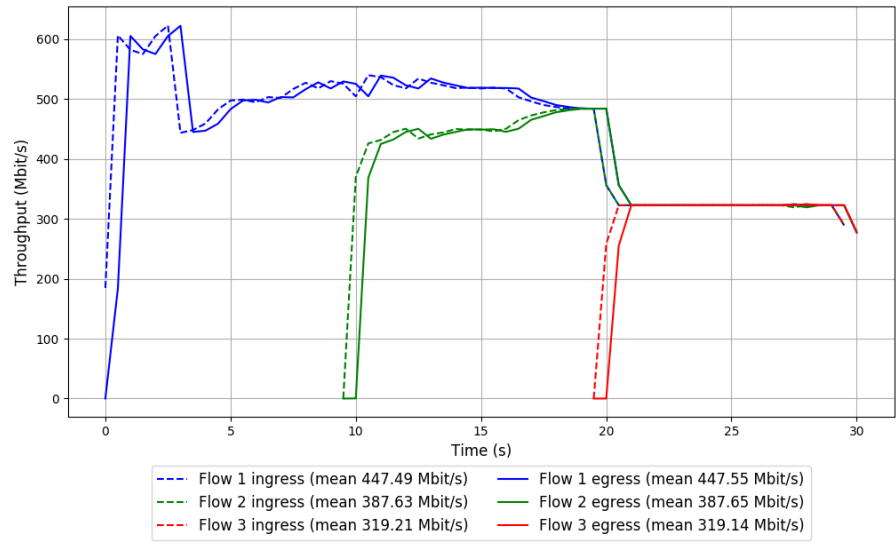
-- Flow 3:

Average throughput: 319.14 Mbit/s

95th percentile per-packet one-way delay: 4.150 ms

Loss rate: 0.23%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-07-18 13:15:49

End at: 2018-07-18 13:16:19

Local clock offset: 2.326 ms

Remote clock offset: 0.494 ms

Below is generated by plot.py at 2018-07-18 14:29:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 861.57 Mbit/s

95th percentile per-packet one-way delay: 10.903 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 494.02 Mbit/s

95th percentile per-packet one-way delay: 11.173 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 393.28 Mbit/s

95th percentile per-packet one-way delay: 4.213 ms

Loss rate: 0.09%

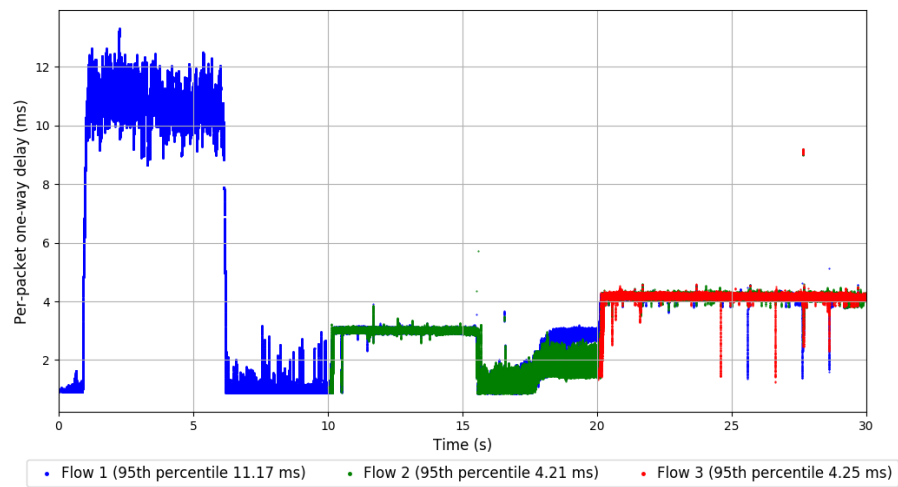
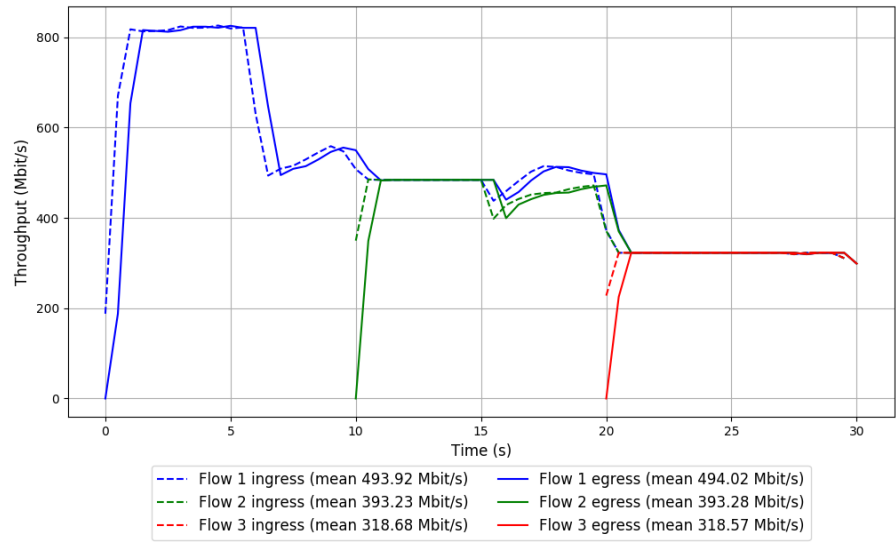
-- Flow 3:

Average throughput: 318.57 Mbit/s

95th percentile per-packet one-way delay: 4.247 ms

Loss rate: 0.23%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-07-18 09:24:42

End at: 2018-07-18 09:25:12

Local clock offset: 2.38 ms

Remote clock offset: 0.261 ms

Below is generated by plot.py at 2018-07-18 14:32:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 938.33 Mbit/s

95th percentile per-packet one-way delay: 3.610 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 588.65 Mbit/s

95th percentile per-packet one-way delay: 4.116 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 373.69 Mbit/s

95th percentile per-packet one-way delay: 3.519 ms

Loss rate: 0.09%

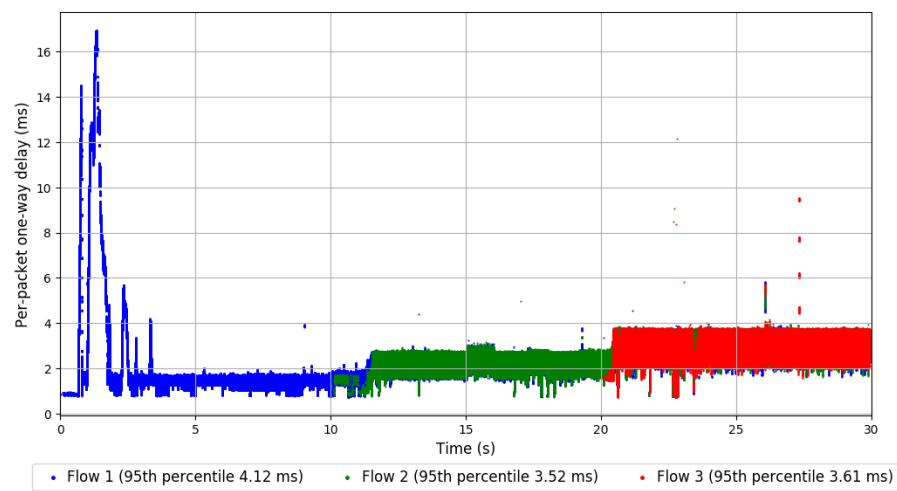
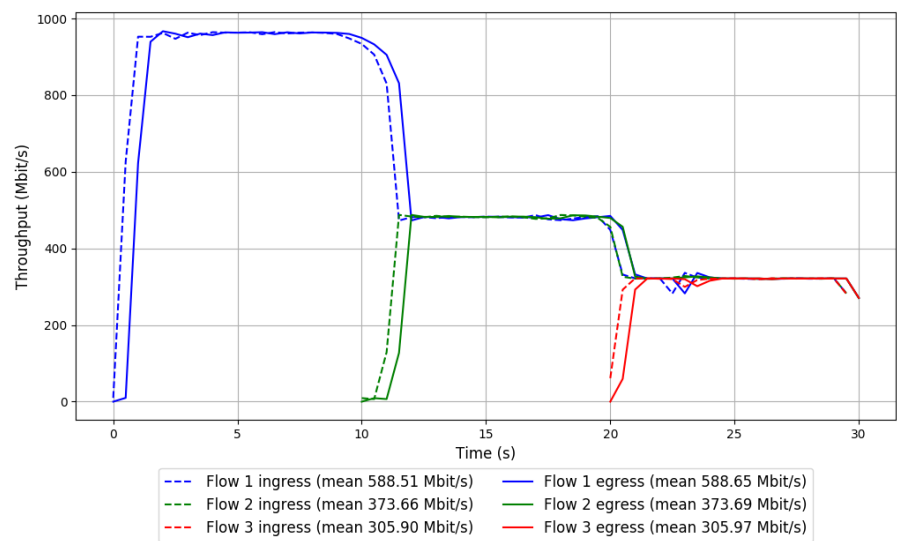
-- Flow 3:

Average throughput: 305.97 Mbit/s

95th percentile per-packet one-way delay: 3.611 ms

Loss rate: 0.22%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-07-18 09:51:34

End at: 2018-07-18 09:52:04

Local clock offset: 3.589 ms

Remote clock offset: 1.01 ms

Below is generated by plot.py at 2018-07-18 14:32:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 939.01 Mbit/s

95th percentile per-packet one-way delay: 3.806 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 580.71 Mbit/s

95th percentile per-packet one-way delay: 3.781 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 395.00 Mbit/s

95th percentile per-packet one-way delay: 3.761 ms

Loss rate: 0.10%

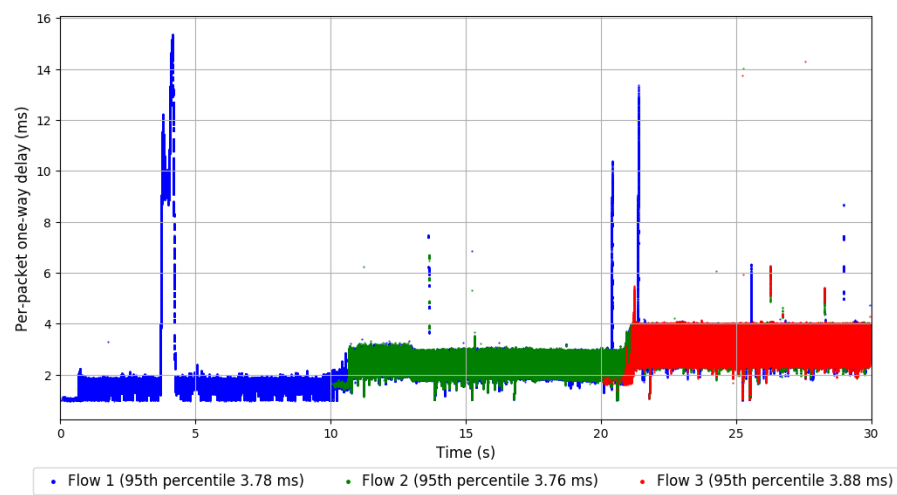
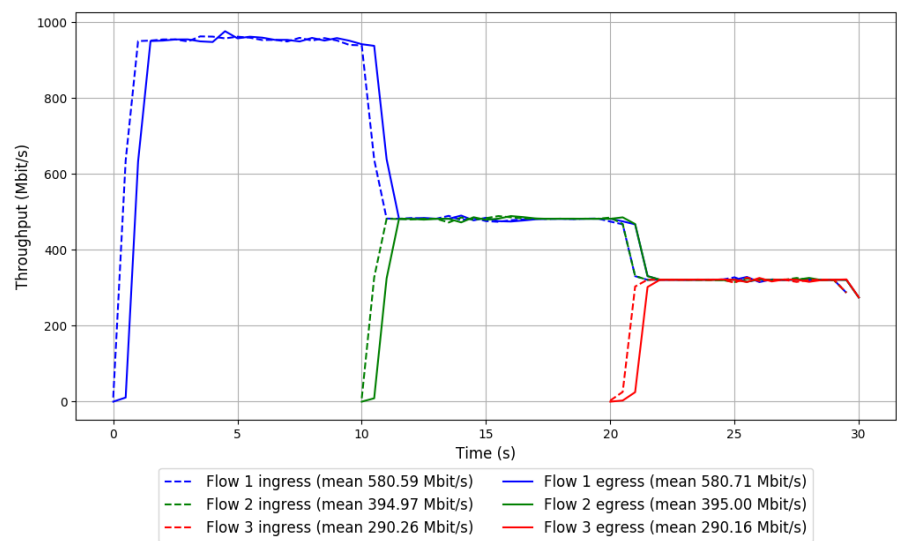
-- Flow 3:

Average throughput: 290.16 Mbit/s

95th percentile per-packet one-way delay: 3.881 ms

Loss rate: 0.24%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-07-18 10:18:32

End at: 2018-07-18 10:19:02

Local clock offset: 3.364 ms

Remote clock offset: 1.463 ms

Below is generated by plot.py at 2018-07-18 14:39:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 935.40 Mbit/s

95th percentile per-packet one-way delay: 5.645 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 573.21 Mbit/s

95th percentile per-packet one-way delay: 14.880 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 394.15 Mbit/s

95th percentile per-packet one-way delay: 3.821 ms

Loss rate: 0.09%

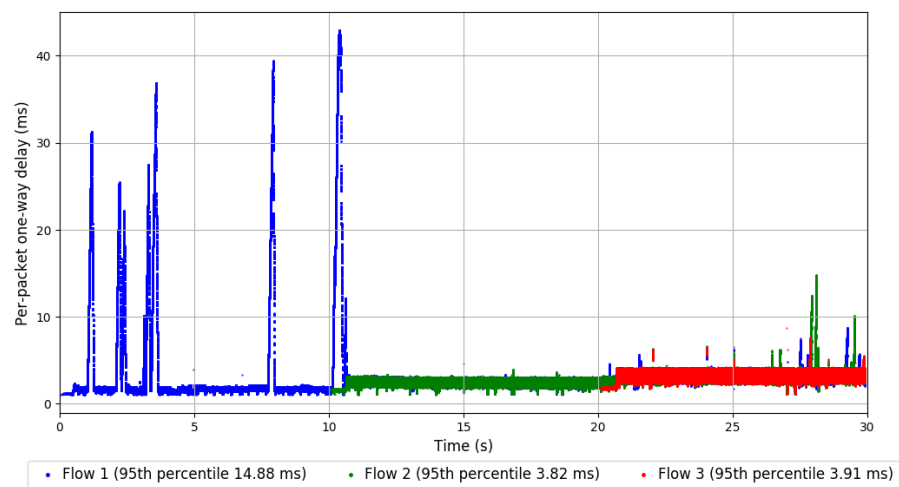
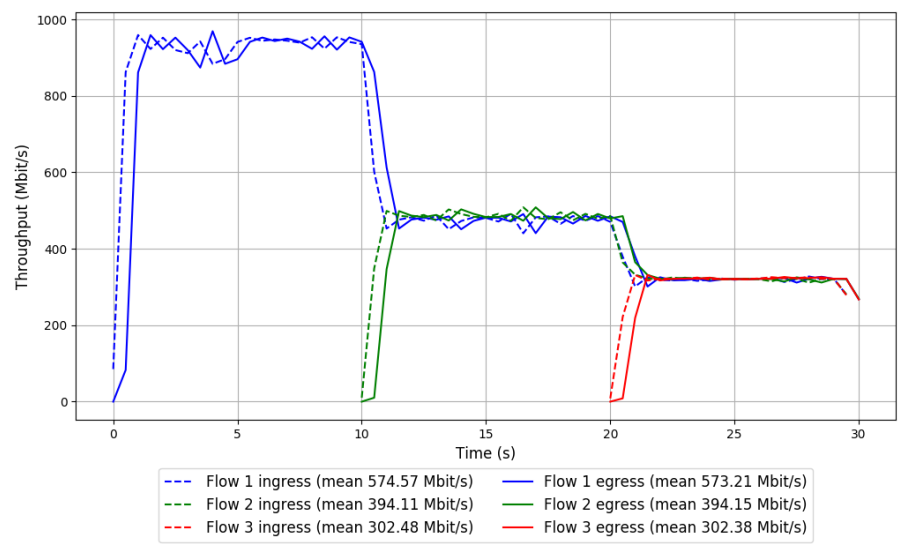
-- Flow 3:

Average throughput: 302.38 Mbit/s

95th percentile per-packet one-way delay: 3.911 ms

Loss rate: 0.23%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-07-18 10:45:21

End at: 2018-07-18 10:45:51

Local clock offset: 1.489 ms

Remote clock offset: 1.816 ms

Below is generated by plot.py at 2018-07-18 14:40:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 939.04 Mbit/s

95th percentile per-packet one-way delay: 4.052 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 577.14 Mbit/s

95th percentile per-packet one-way delay: 3.930 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 394.22 Mbit/s

95th percentile per-packet one-way delay: 4.063 ms

Loss rate: 0.09%

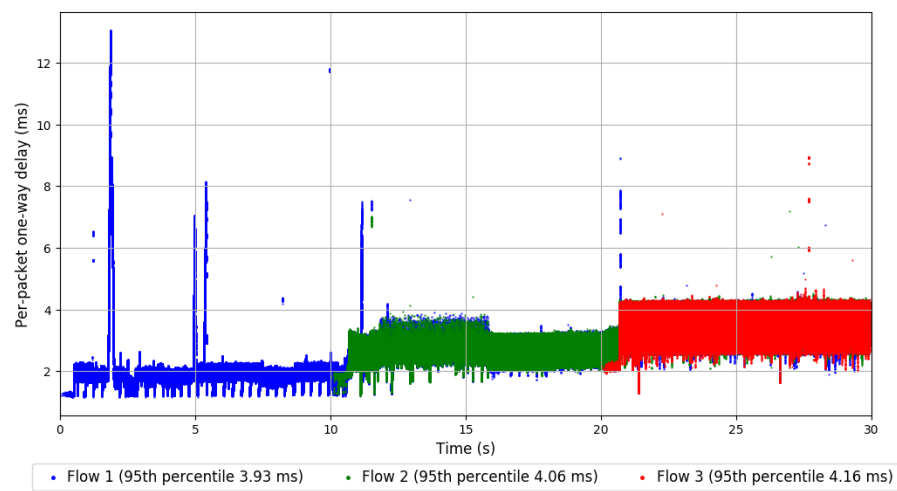
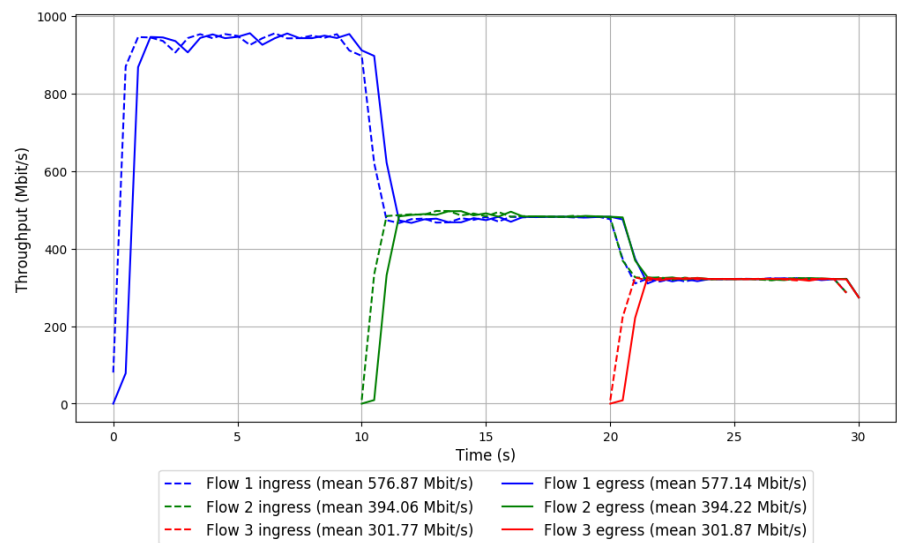
-- Flow 3:

Average throughput: 301.87 Mbit/s

95th percentile per-packet one-way delay: 4.156 ms

Loss rate: 0.24%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-07-18 11:12:16

End at: 2018-07-18 11:12:46

Local clock offset: -0.561 ms

Remote clock offset: 2.08 ms

Below is generated by plot.py at 2018-07-18 14:40:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 939.97 Mbit/s

95th percentile per-packet one-way delay: 3.734 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 578.59 Mbit/s

95th percentile per-packet one-way delay: 3.598 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 391.27 Mbit/s

95th percentile per-packet one-way delay: 3.766 ms

Loss rate: 0.09%

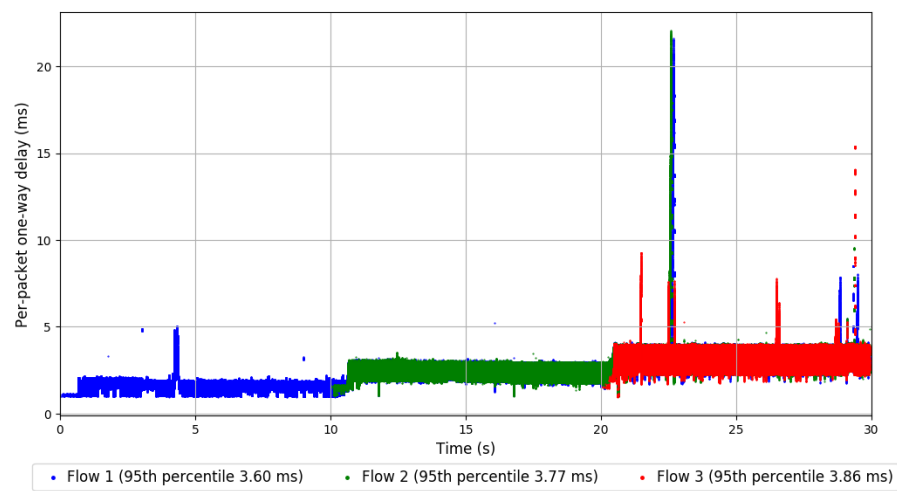
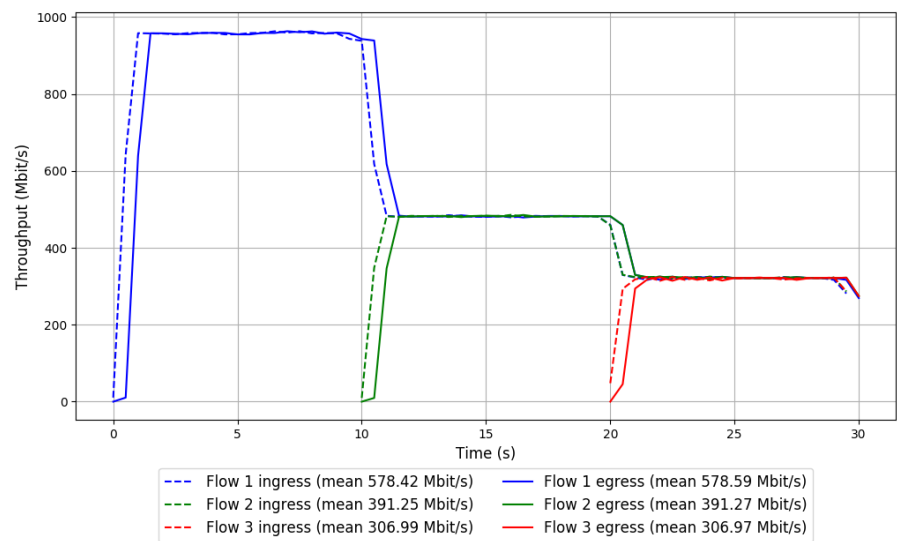
-- Flow 3:

Average throughput: 306.97 Mbit/s

95th percentile per-packet one-way delay: 3.861 ms

Loss rate: 0.23%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-18 11:39:10

End at: 2018-07-18 11:39:40

Local clock offset: -0.431 ms

Remote clock offset: 2.165 ms

Below is generated by plot.py at 2018-07-18 14:40:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 869.95 Mbit/s

95th percentile per-packet one-way delay: 3.703 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 508.23 Mbit/s

95th percentile per-packet one-way delay: 3.474 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 393.09 Mbit/s

95th percentile per-packet one-way delay: 4.180 ms

Loss rate: 0.09%

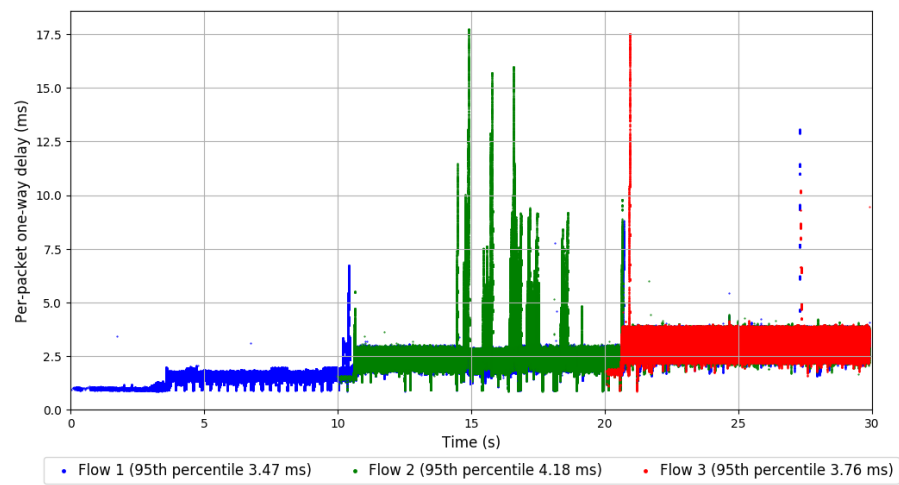
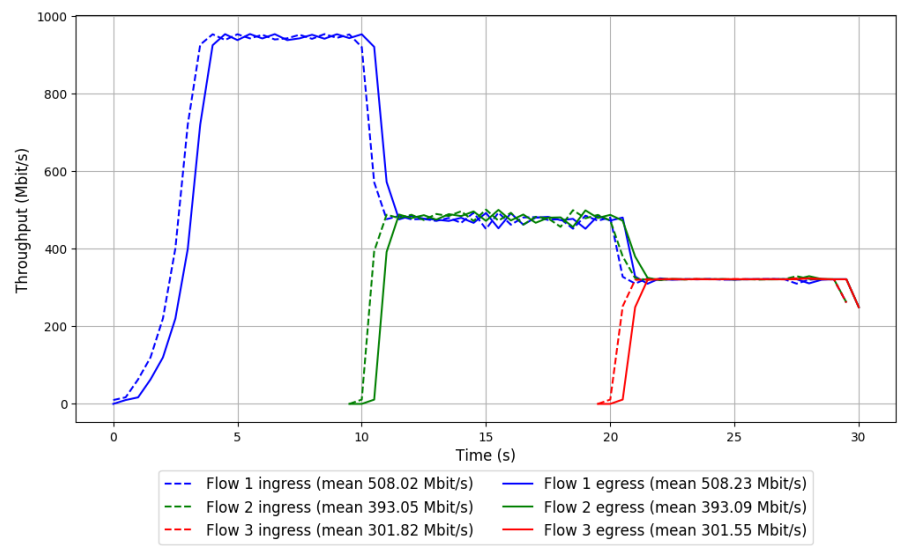
-- Flow 3:

Average throughput: 301.55 Mbit/s

95th percentile per-packet one-way delay: 3.764 ms

Loss rate: 0.23%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-07-18 12:06:08

End at: 2018-07-18 12:06:38

Local clock offset: -0.256 ms

Remote clock offset: 1.979 ms

Below is generated by plot.py at 2018-07-18 14:40:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 937.91 Mbit/s

95th percentile per-packet one-way delay: 5.030 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 577.73 Mbit/s

95th percentile per-packet one-way delay: 5.483 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 390.22 Mbit/s

95th percentile per-packet one-way delay: 3.787 ms

Loss rate: 0.09%

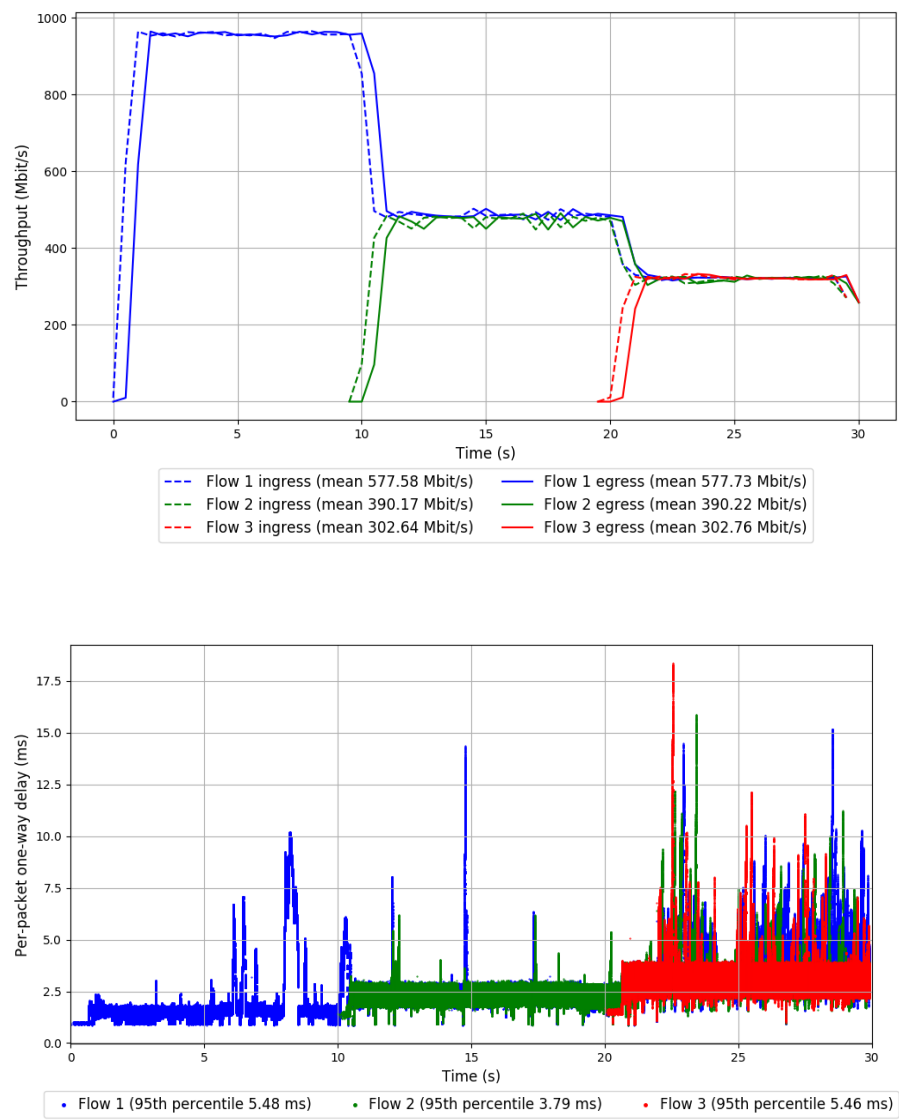
-- Flow 3:

Average throughput: 302.76 Mbit/s

95th percentile per-packet one-way delay: 5.462 ms

Loss rate: 0.23%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-07-18 12:33:02

End at: 2018-07-18 12:33:32

Local clock offset: -3.51 ms

Remote clock offset: 1.276 ms

Below is generated by plot.py at 2018-07-18 14:42:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 936.64 Mbit/s

95th percentile per-packet one-way delay: 24.471 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 585.76 Mbit/s

95th percentile per-packet one-way delay: 30.212 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 375.22 Mbit/s

95th percentile per-packet one-way delay: 3.769 ms

Loss rate: 0.09%

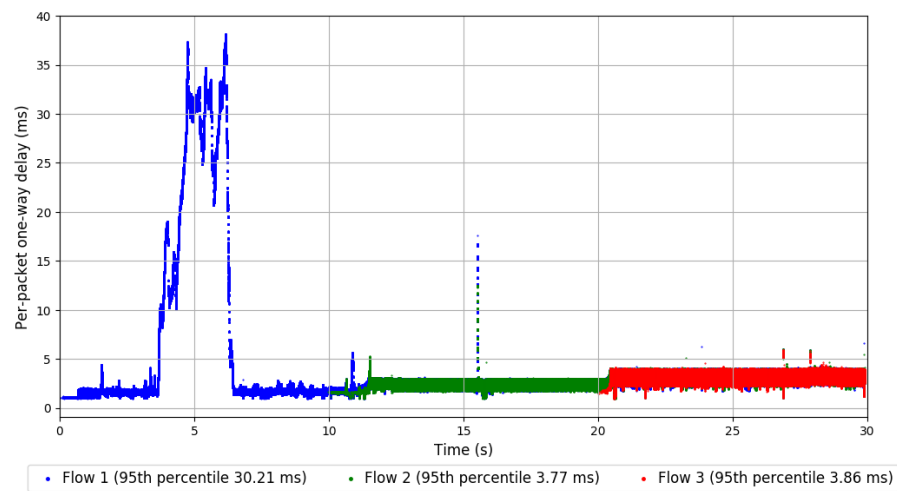
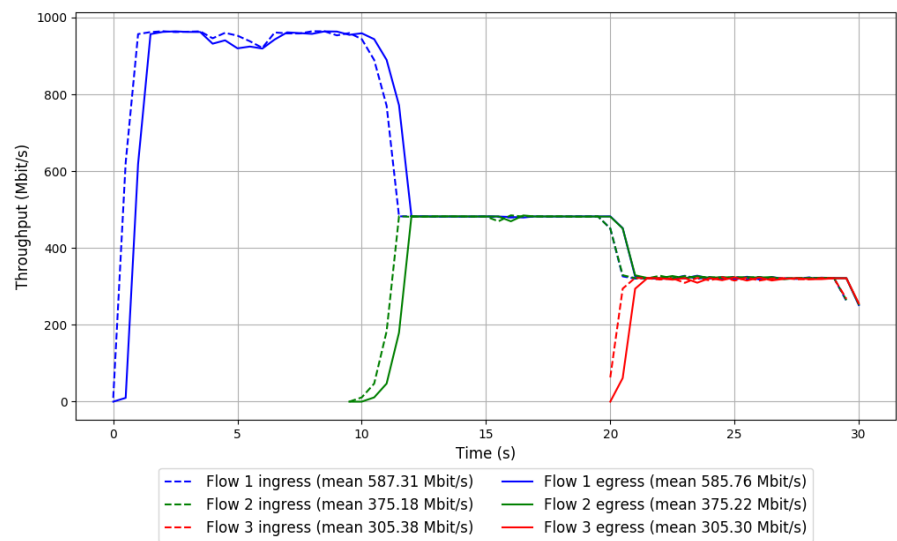
-- Flow 3:

Average throughput: 305.30 Mbit/s

95th percentile per-packet one-way delay: 3.856 ms

Loss rate: 0.23%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-18 13:00:05

End at: 2018-07-18 13:00:35

Local clock offset: 0.221 ms

Remote clock offset: 0.699 ms

Below is generated by plot.py at 2018-07-18 14:44:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 855.71 Mbit/s

95th percentile per-packet one-way delay: 34.946 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 493.98 Mbit/s

95th percentile per-packet one-way delay: 36.894 ms

Loss rate: 1.85%

-- Flow 2:

Average throughput: 391.61 Mbit/s

95th percentile per-packet one-way delay: 3.741 ms

Loss rate: 0.10%

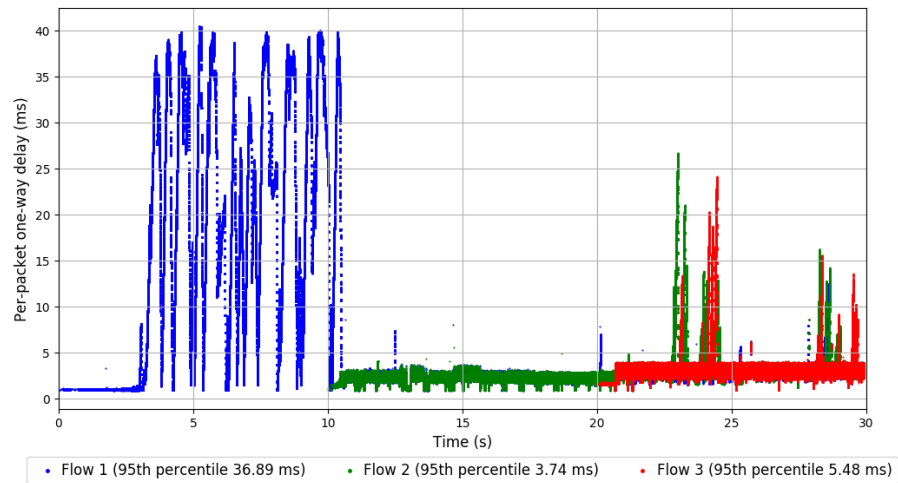
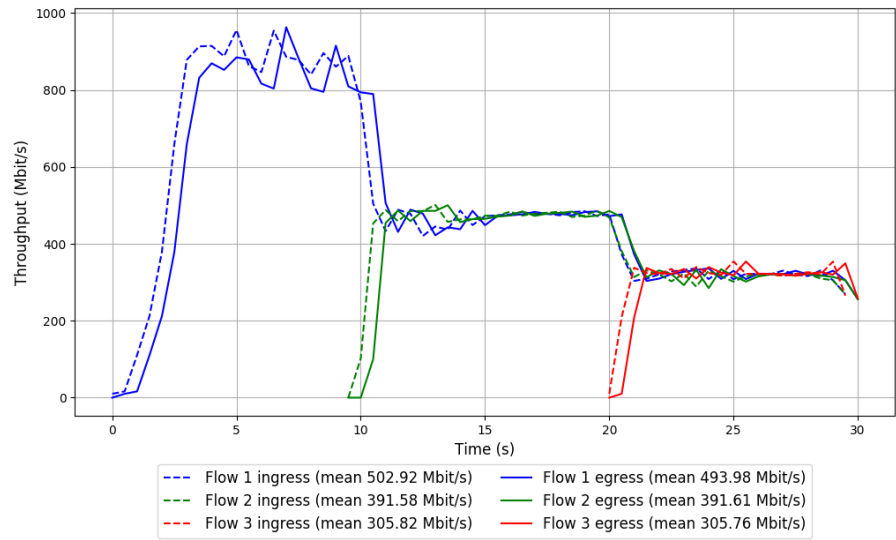
-- Flow 3:

Average throughput: 305.76 Mbit/s

95th percentile per-packet one-way delay: 5.478 ms

Loss rate: 0.23%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-07-18 13:26:59

End at: 2018-07-18 13:27:29

Local clock offset: 3.628 ms

Remote clock offset: 0.302 ms

Below is generated by plot.py at 2018-07-18 14:45:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 884.41 Mbit/s

95th percentile per-packet one-way delay: 3.596 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 519.21 Mbit/s

95th percentile per-packet one-way delay: 3.502 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 400.01 Mbit/s

95th percentile per-packet one-way delay: 3.577 ms

Loss rate: 0.09%

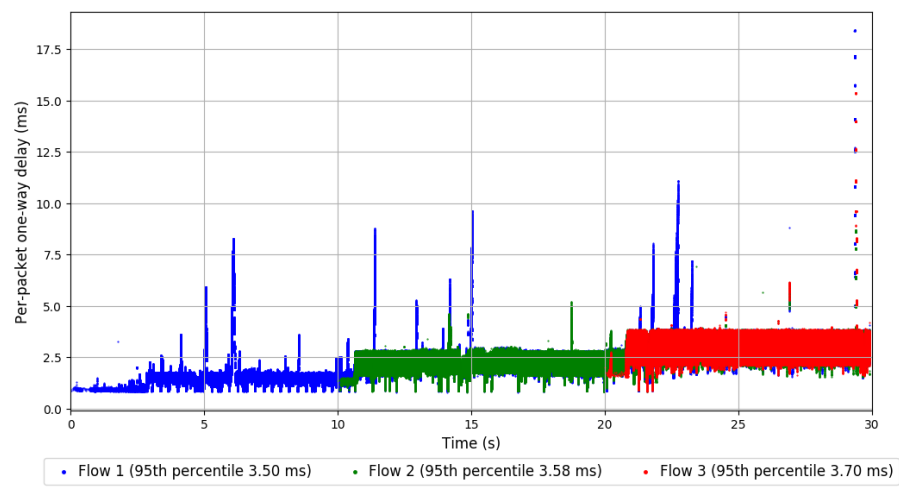
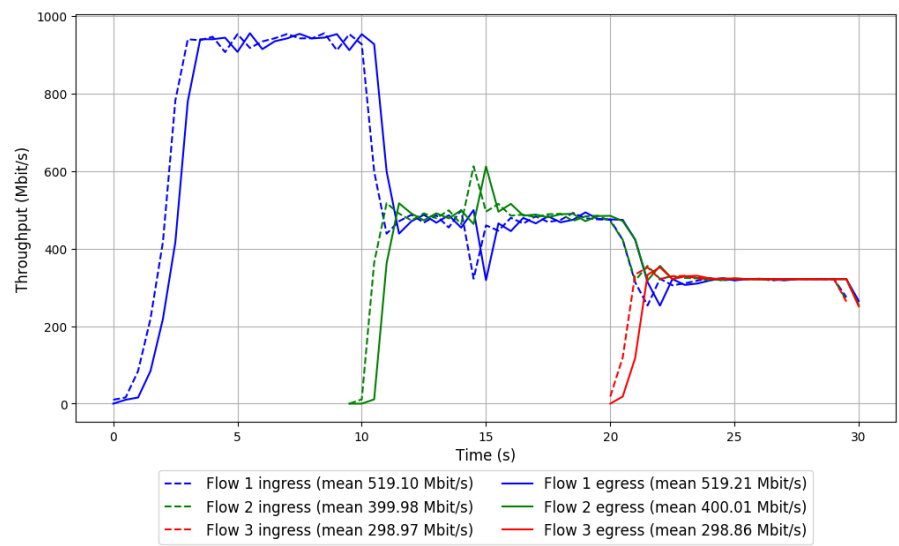
-- Flow 3:

Average throughput: 298.86 Mbit/s

95th percentile per-packet one-way delay: 3.703 ms

Loss rate: 0.25%

Run 10: Report of FillP — Data Link

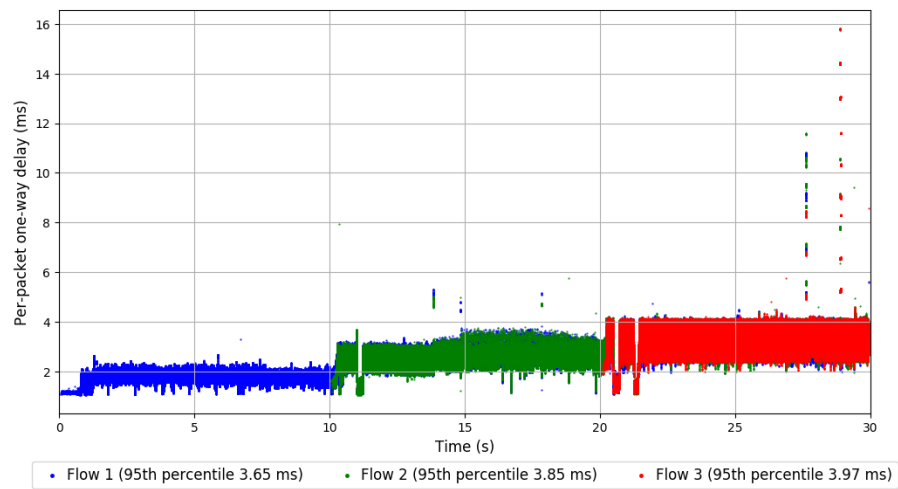
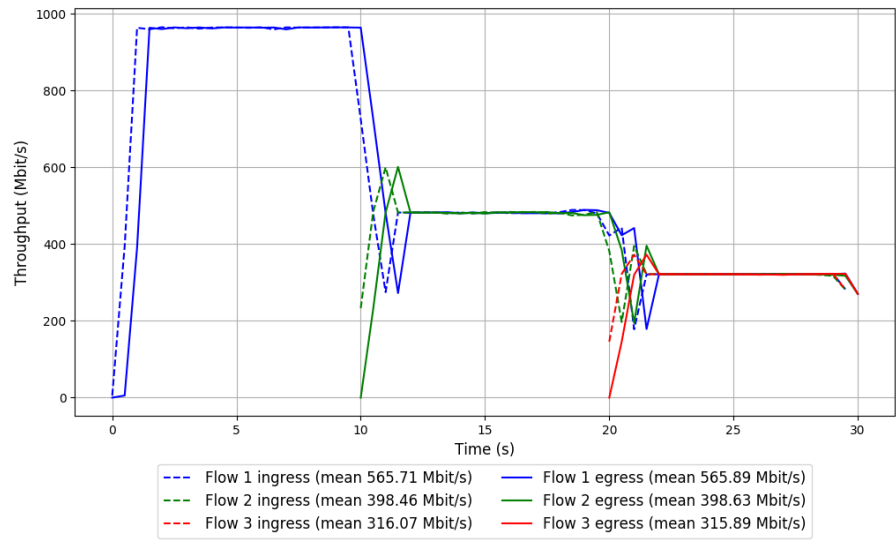


Run 1: Statistics of FillP-Sheep

Start at: 2018-07-18 09:05:26
End at: 2018-07-18 09:05:56
Local clock offset: -4.43 ms
Remote clock offset: -0.166 ms

Below is generated by plot.py at 2018-07-18 14:52:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 935.43 Mbit/s
95th percentile per-packet one-way delay: 3.822 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 565.89 Mbit/s
95th percentile per-packet one-way delay: 3.645 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 398.63 Mbit/s
95th percentile per-packet one-way delay: 3.850 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 315.89 Mbit/s
95th percentile per-packet one-way delay: 3.974 ms
Loss rate: 0.21%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-07-18 09:32:25

End at: 2018-07-18 09:32:55

Local clock offset: 3.558 ms

Remote clock offset: 0.49 ms

Below is generated by plot.py at 2018-07-18 14:52:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 936.90 Mbit/s

95th percentile per-packet one-way delay: 3.706 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 564.75 Mbit/s

95th percentile per-packet one-way delay: 3.501 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 401.22 Mbit/s

95th percentile per-packet one-way delay: 3.742 ms

Loss rate: 0.08%

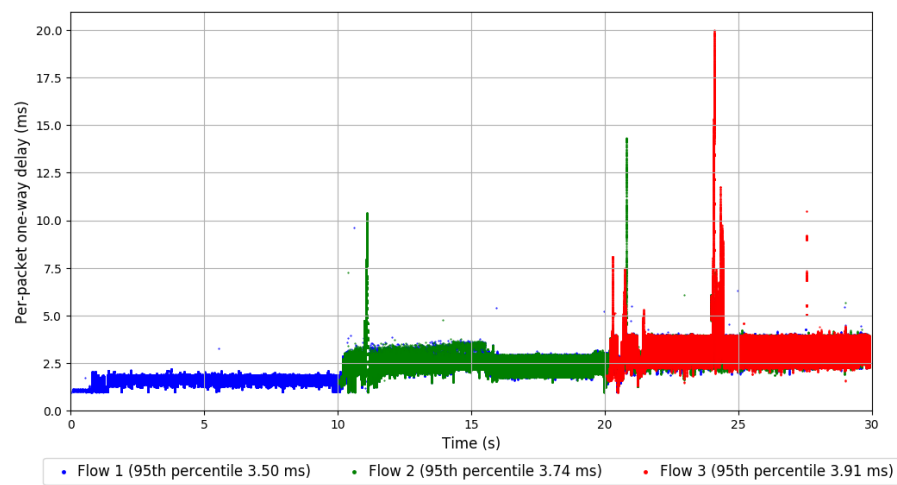
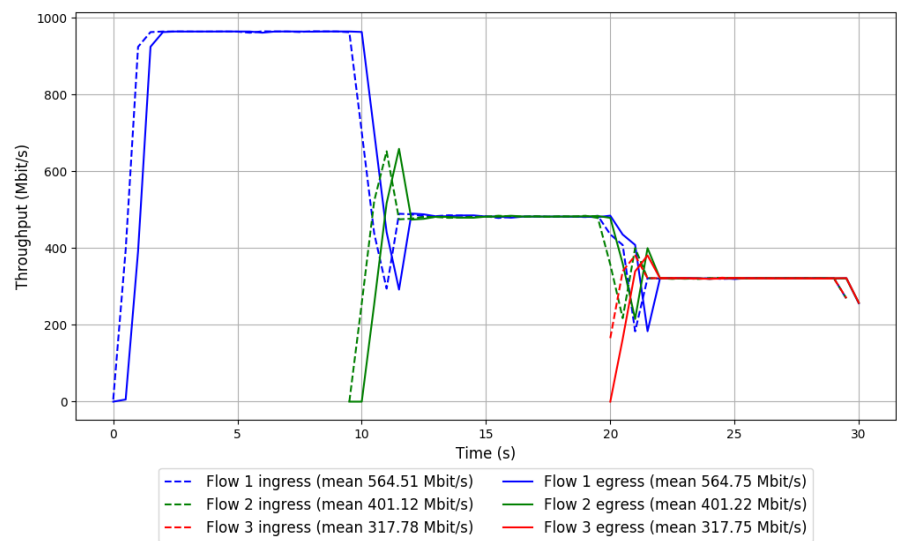
-- Flow 3:

Average throughput: 317.75 Mbit/s

95th percentile per-packet one-way delay: 3.913 ms

Loss rate: 0.22%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-07-18 09:59:17

End at: 2018-07-18 09:59:47

Local clock offset: 3.547 ms

Remote clock offset: 1.171 ms

Below is generated by plot.py at 2018-07-18 14:52:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 935.10 Mbit/s

95th percentile per-packet one-way delay: 3.643 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 564.89 Mbit/s

95th percentile per-packet one-way delay: 3.492 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 398.12 Mbit/s

95th percentile per-packet one-way delay: 3.655 ms

Loss rate: 0.09%

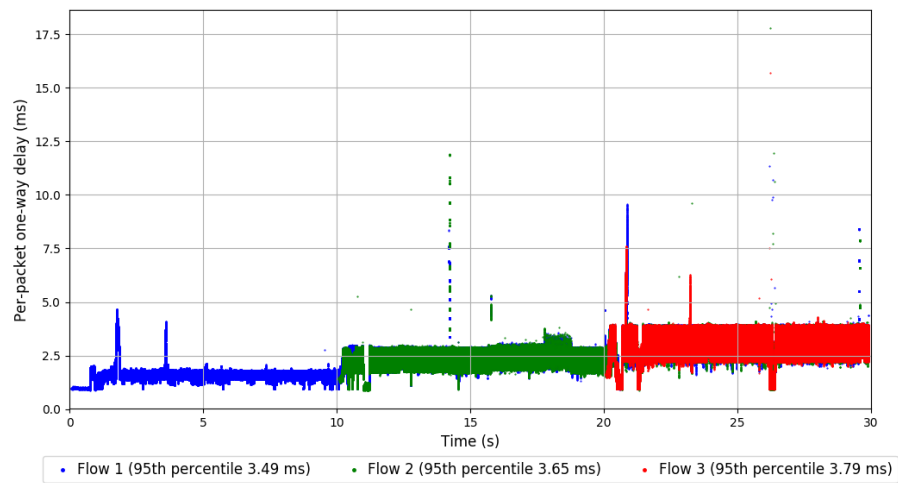
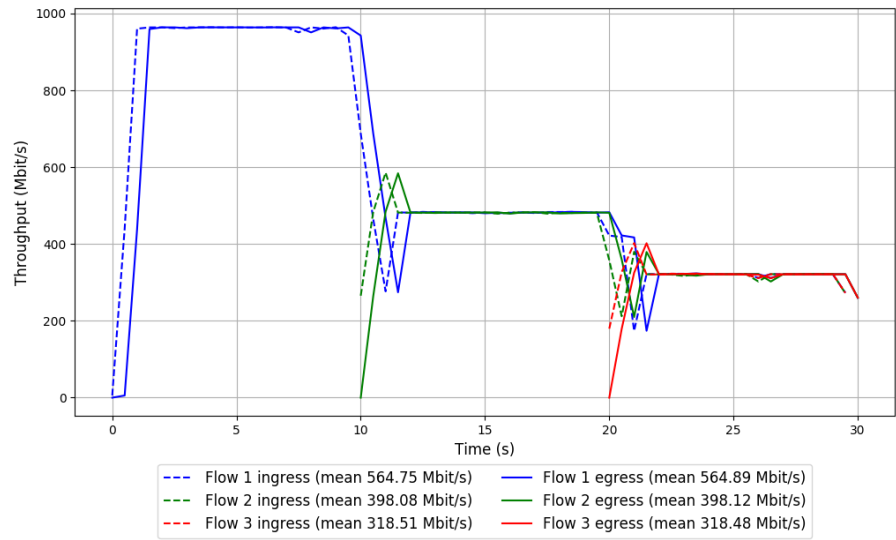
-- Flow 3:

Average throughput: 318.48 Mbit/s

95th percentile per-packet one-way delay: 3.791 ms

Loss rate: 0.23%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-07-18 10:26:12

End at: 2018-07-18 10:26:42

Local clock offset: 3.295 ms

Remote clock offset: 1.584 ms

Below is generated by plot.py at 2018-07-18 14:53:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 949.33 Mbit/s

95th percentile per-packet one-way delay: 3.848 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 580.92 Mbit/s

95th percentile per-packet one-way delay: 3.949 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 396.15 Mbit/s

95th percentile per-packet one-way delay: 3.764 ms

Loss rate: 0.09%

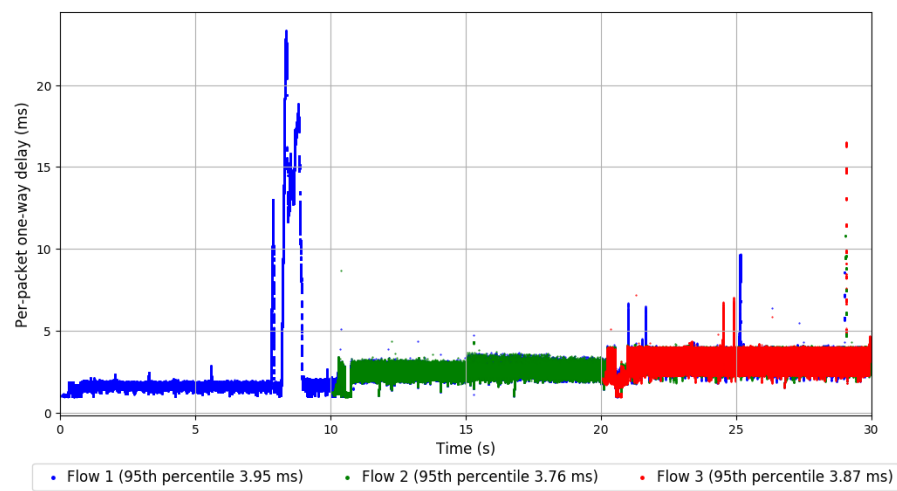
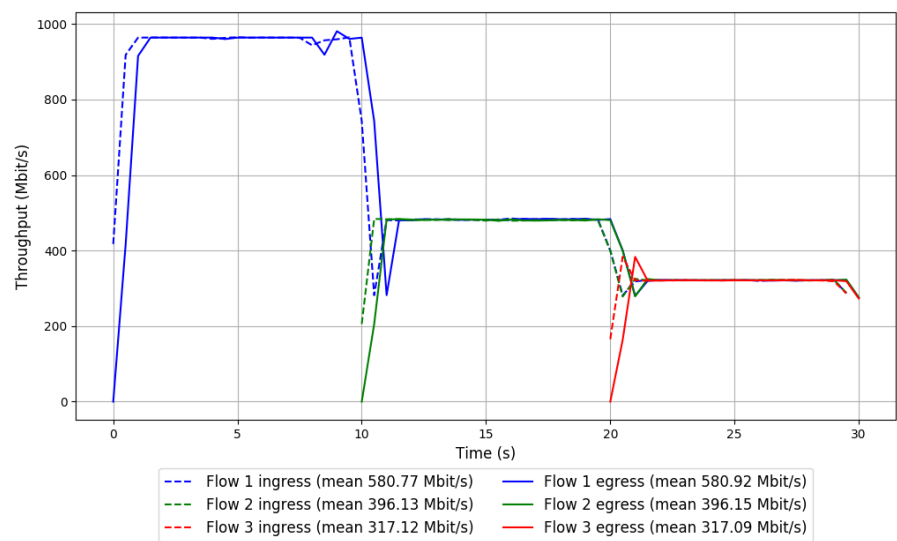
-- Flow 3:

Average throughput: 317.09 Mbit/s

95th percentile per-packet one-way delay: 3.870 ms

Loss rate: 0.24%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-07-18 10:53:05

End at: 2018-07-18 10:53:35

Local clock offset: 0.237 ms

Remote clock offset: 1.924 ms

Below is generated by plot.py at 2018-07-18 14:53:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 937.70 Mbit/s

95th percentile per-packet one-way delay: 3.859 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 567.46 Mbit/s

95th percentile per-packet one-way delay: 3.673 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 398.16 Mbit/s

95th percentile per-packet one-way delay: 3.895 ms

Loss rate: 0.08%

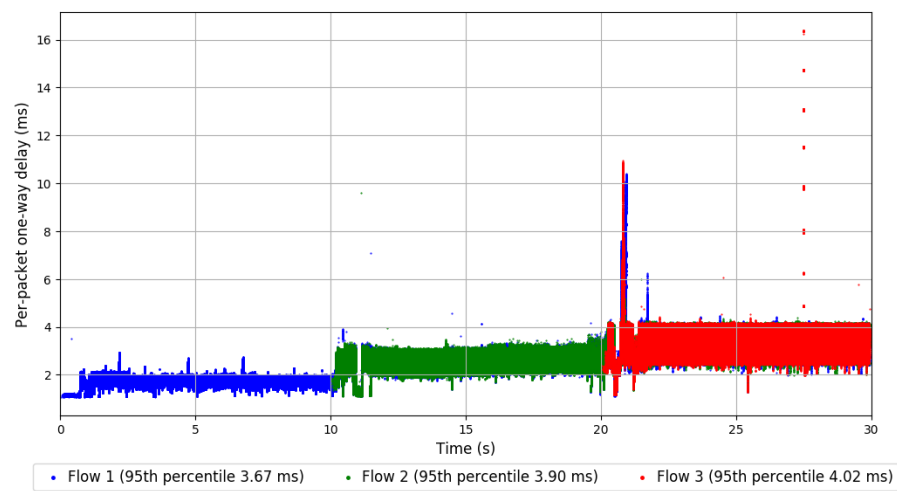
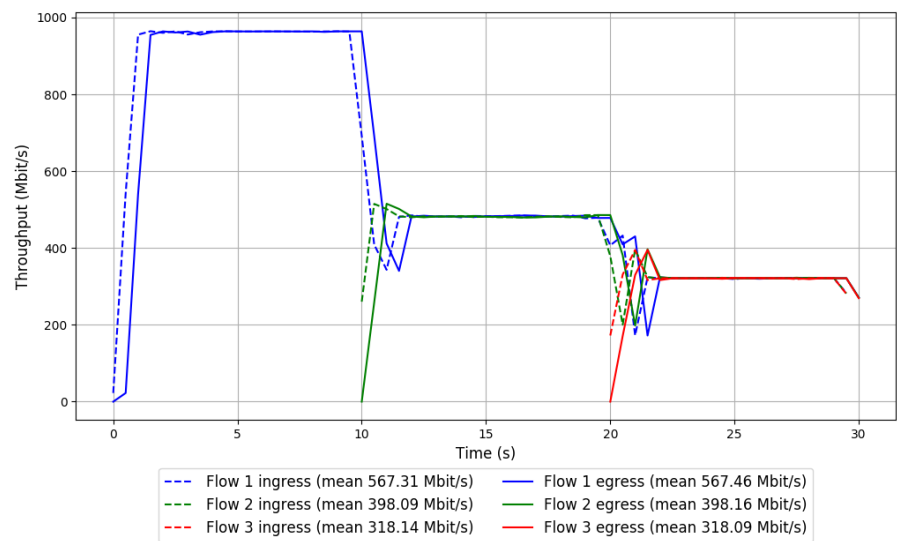
-- Flow 3:

Average throughput: 318.09 Mbit/s

95th percentile per-packet one-way delay: 4.017 ms

Loss rate: 0.22%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-07-18 11:19:58

End at: 2018-07-18 11:20:28

Local clock offset: -0.354 ms

Remote clock offset: 2.218 ms

Below is generated by plot.py at 2018-07-18 14:55:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 936.68 Mbit/s

95th percentile per-packet one-way delay: 5.967 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 568.28 Mbit/s

95th percentile per-packet one-way delay: 9.410 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 404.05 Mbit/s

95th percentile per-packet one-way delay: 3.635 ms

Loss rate: 0.08%

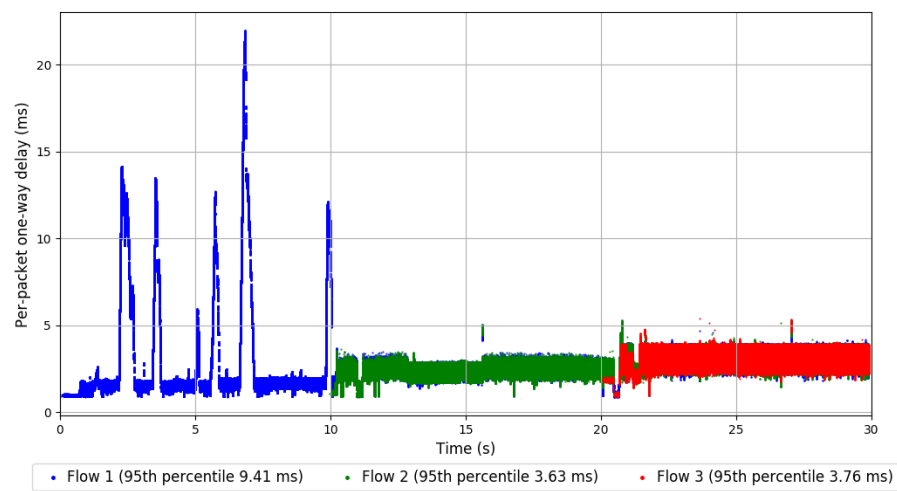
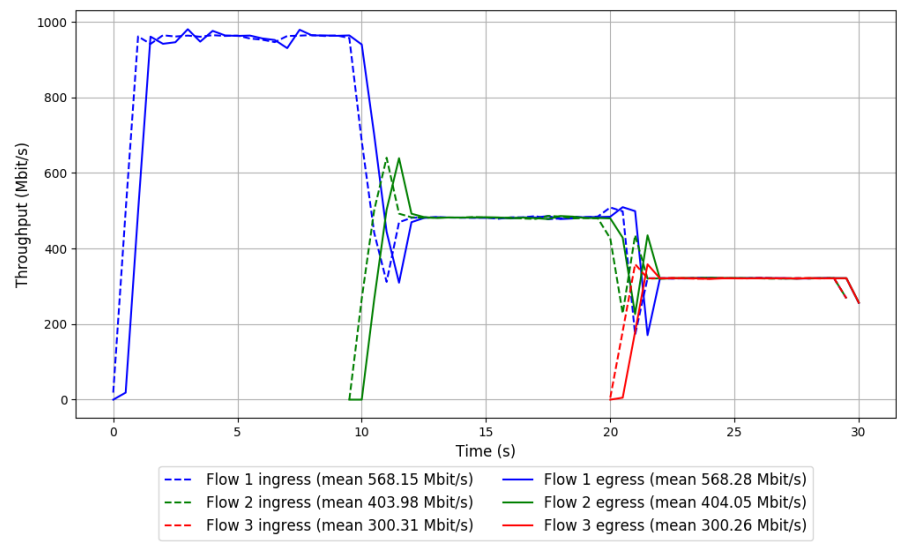
-- Flow 3:

Average throughput: 300.26 Mbit/s

95th percentile per-packet one-way delay: 3.763 ms

Loss rate: 0.23%

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-07-18 11:46:54

End at: 2018-07-18 11:47:24

Local clock offset: -0.163 ms

Remote clock offset: 2.095 ms

Below is generated by plot.py at 2018-07-18 14:58:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 950.74 Mbit/s

95th percentile per-packet one-way delay: 3.657 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 582.27 Mbit/s

95th percentile per-packet one-way delay: 3.546 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 396.97 Mbit/s

95th percentile per-packet one-way delay: 3.652 ms

Loss rate: 0.09%

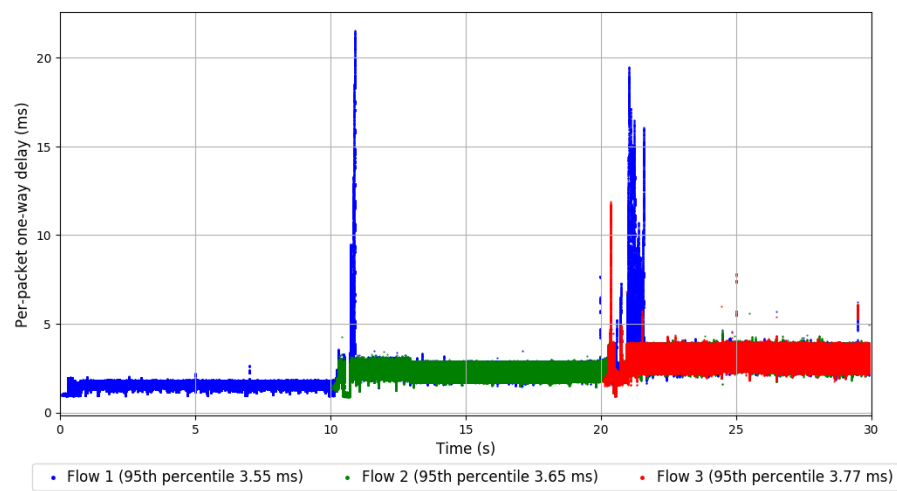
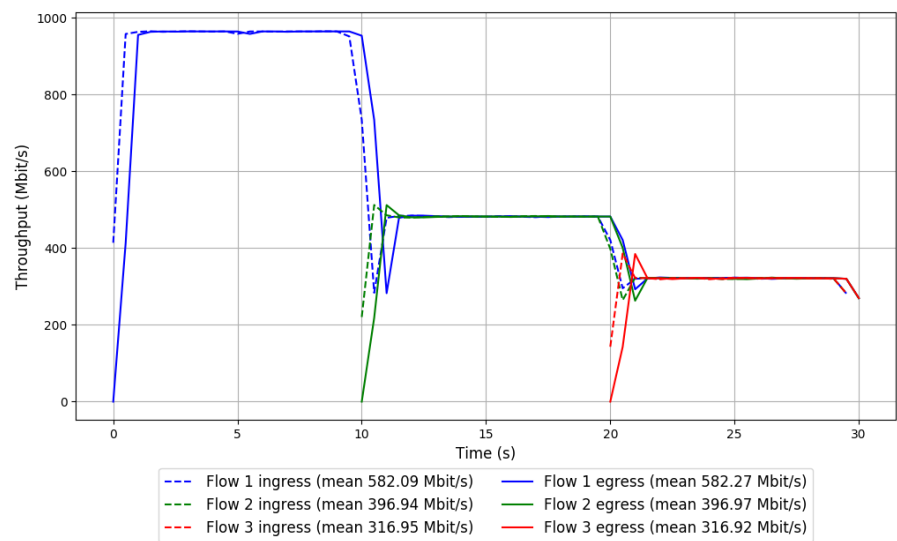
-- Flow 3:

Average throughput: 316.92 Mbit/s

95th percentile per-packet one-way delay: 3.775 ms

Loss rate: 0.23%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-07-18 12:13:48

End at: 2018-07-18 12:14:18

Local clock offset: -1.416 ms

Remote clock offset: 1.785 ms

Below is generated by plot.py at 2018-07-18 14:58:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 932.08 Mbit/s

95th percentile per-packet one-way delay: 18.384 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 561.72 Mbit/s

95th percentile per-packet one-way delay: 19.331 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 399.05 Mbit/s

95th percentile per-packet one-way delay: 4.016 ms

Loss rate: 0.09%

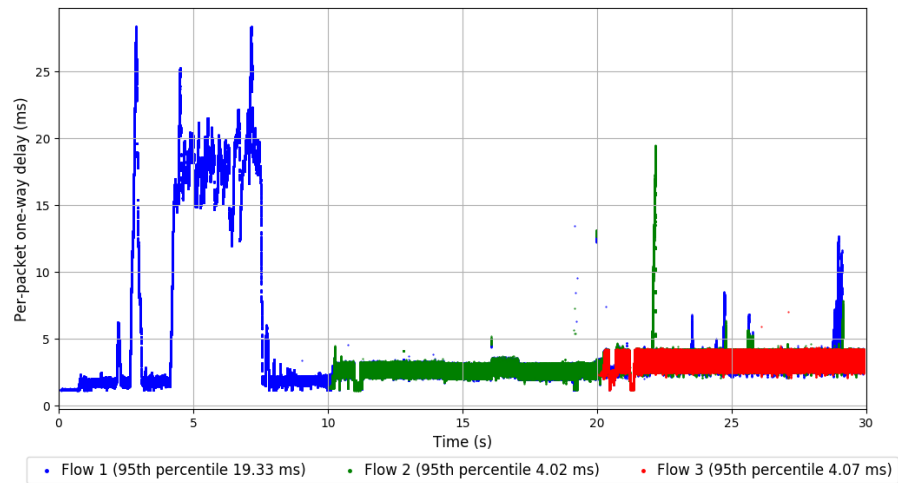
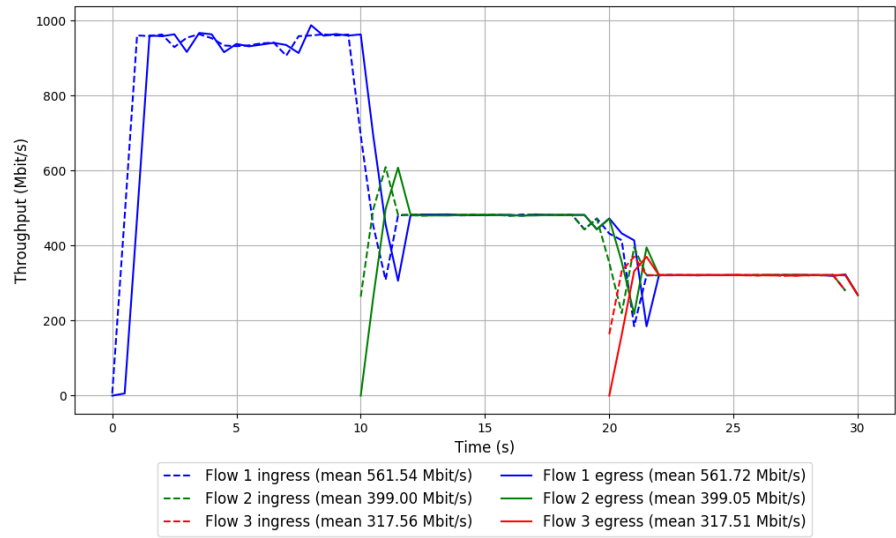
-- Flow 3:

Average throughput: 317.51 Mbit/s

95th percentile per-packet one-way delay: 4.067 ms

Loss rate: 0.22%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-18 12:40:42

End at: 2018-07-18 12:41:12

Local clock offset: -3.072 ms

Remote clock offset: 1.12 ms

Below is generated by plot.py at 2018-07-18 15:06:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 949.84 Mbit/s

95th percentile per-packet one-way delay: 3.352 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 581.31 Mbit/s

95th percentile per-packet one-way delay: 3.407 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 396.34 Mbit/s

95th percentile per-packet one-way delay: 3.247 ms

Loss rate: 0.09%

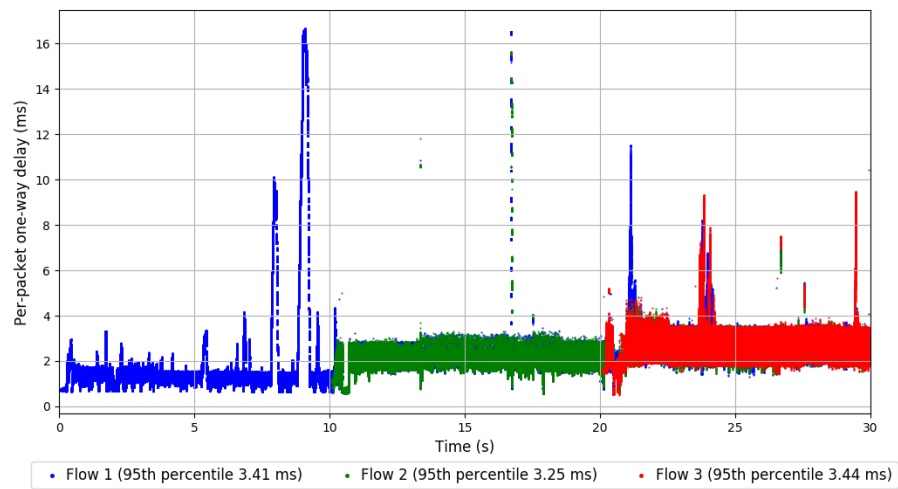
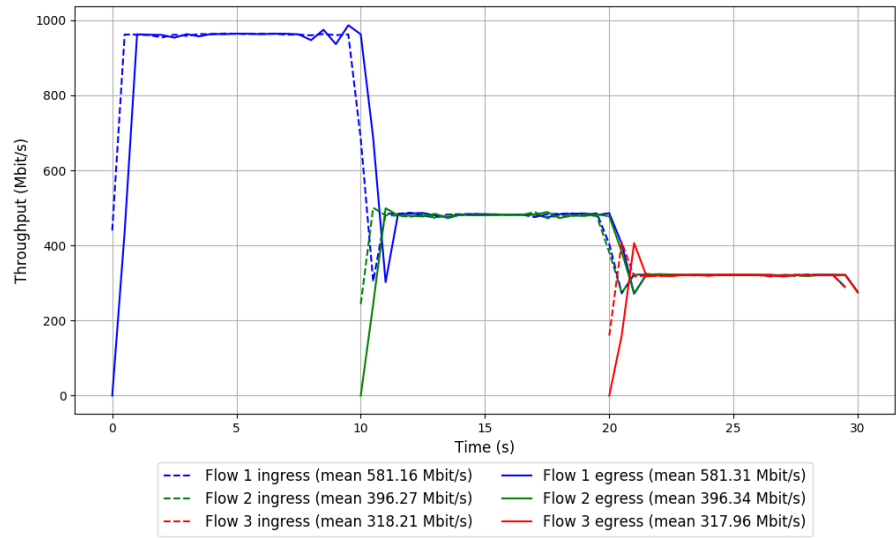
-- Flow 3:

Average throughput: 317.96 Mbit/s

95th percentile per-packet one-way delay: 3.440 ms

Loss rate: 0.23%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-07-18 13:07:45

End at: 2018-07-18 13:08:15

Local clock offset: 0.527 ms

Remote clock offset: 0.593 ms

Below is generated by plot.py at 2018-07-18 15:06:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 897.56 Mbit/s

95th percentile per-packet one-way delay: 34.369 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 526.41 Mbit/s

95th percentile per-packet one-way delay: 35.836 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 399.47 Mbit/s

95th percentile per-packet one-way delay: 3.676 ms

Loss rate: 0.09%

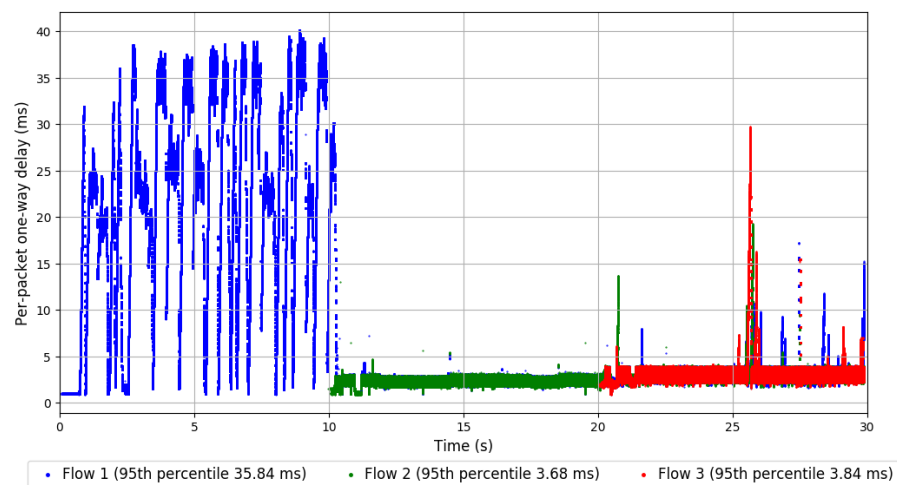
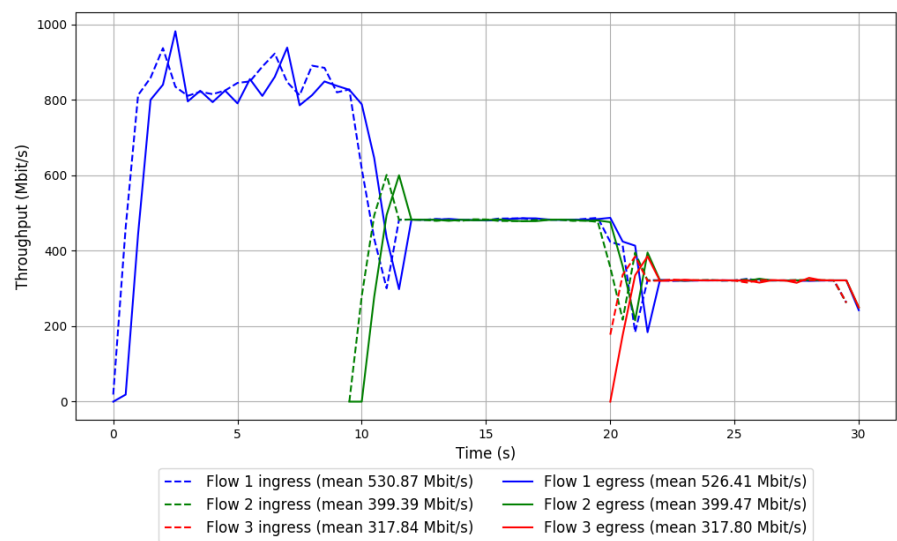
-- Flow 3:

Average throughput: 317.80 Mbit/s

95th percentile per-packet one-way delay: 3.843 ms

Loss rate: 0.23%

Run 10: Report of FillP-Sheep — Data Link

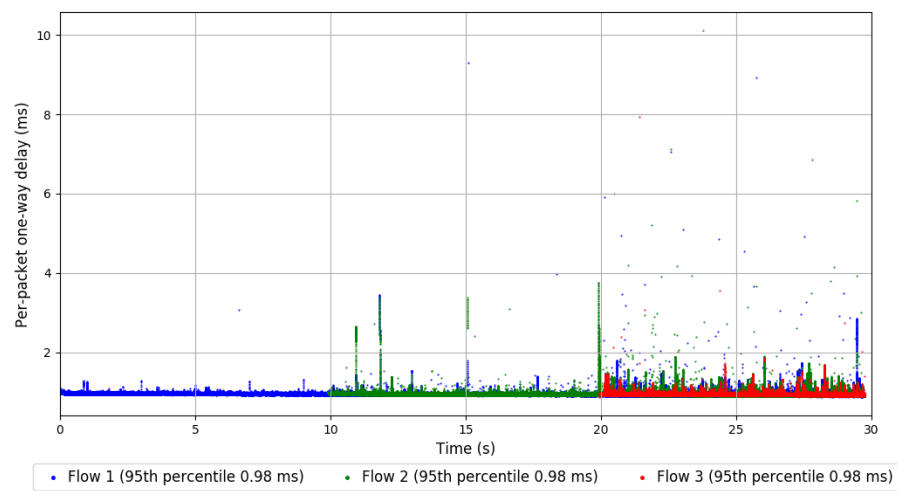
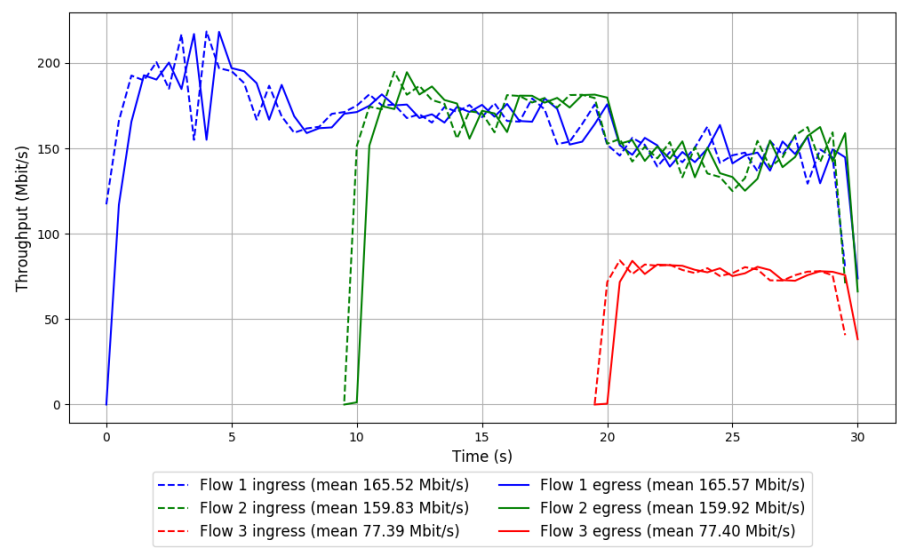


```
Run 1: Statistics of Indigo

Start at: 2018-07-18 09:26:26
End at: 2018-07-18 09:26:56
Local clock offset: 2.769 ms
Remote clock offset: 0.29 ms

# Below is generated by plot.py at 2018-07-18 15:06:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 297.68 Mbit/s
95th percentile per-packet one-way delay: 0.978 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 165.57 Mbit/s
95th percentile per-packet one-way delay: 0.979 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 159.92 Mbit/s
95th percentile per-packet one-way delay: 0.976 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 77.40 Mbit/s
95th percentile per-packet one-way delay: 0.985 ms
Loss rate: 0.18%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-07-18 09:53:18

End at: 2018-07-18 09:53:48

Local clock offset: 3.501 ms

Remote clock offset: 1.01 ms

Below is generated by plot.py at 2018-07-18 15:06:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 319.36 Mbit/s

95th percentile per-packet one-way delay: 1.054 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 175.01 Mbit/s

95th percentile per-packet one-way delay: 1.044 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 152.35 Mbit/s

95th percentile per-packet one-way delay: 1.053 ms

Loss rate: 0.09%

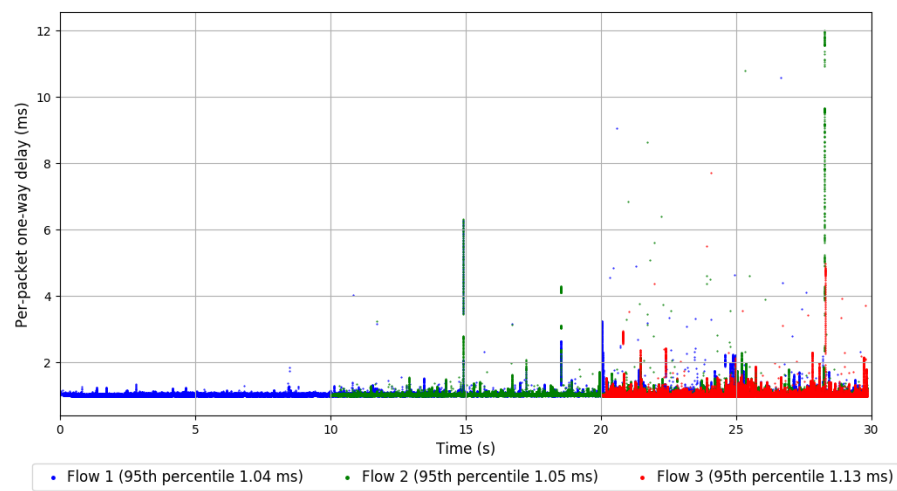
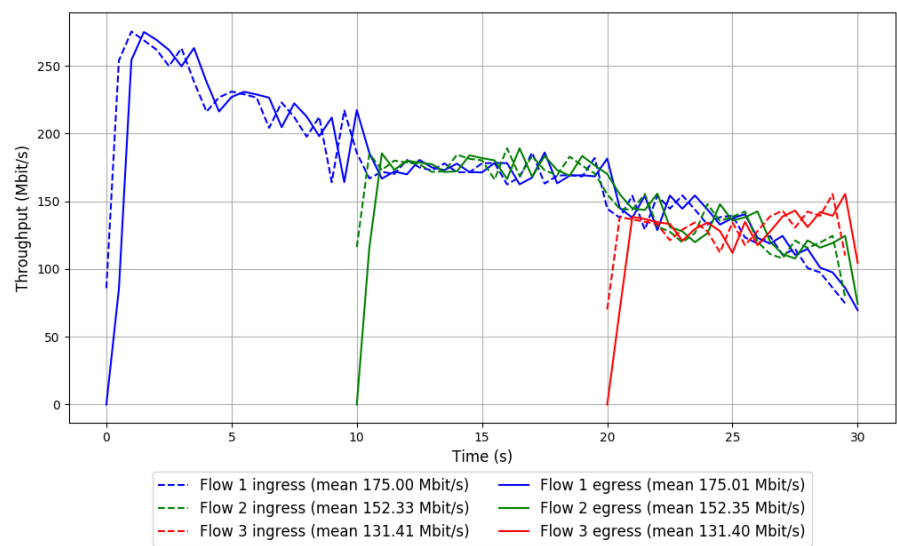
-- Flow 3:

Average throughput: 131.40 Mbit/s

95th percentile per-packet one-way delay: 1.129 ms

Loss rate: 0.22%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-07-18 10:20:16

End at: 2018-07-18 10:20:46

Local clock offset: 3.361 ms

Remote clock offset: 1.529 ms

Below is generated by plot.py at 2018-07-18 15:06:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 288.20 Mbit/s

95th percentile per-packet one-way delay: 1.102 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 157.27 Mbit/s

95th percentile per-packet one-way delay: 1.087 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 156.51 Mbit/s

95th percentile per-packet one-way delay: 1.114 ms

Loss rate: 0.06%

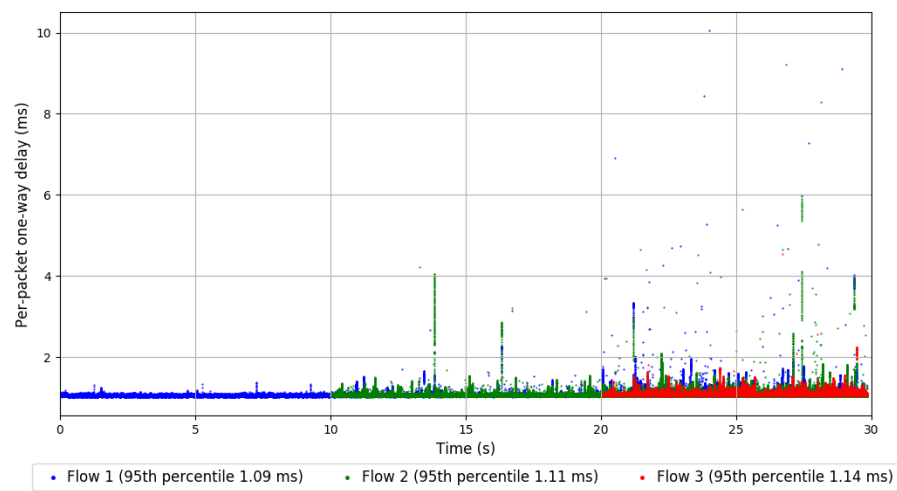
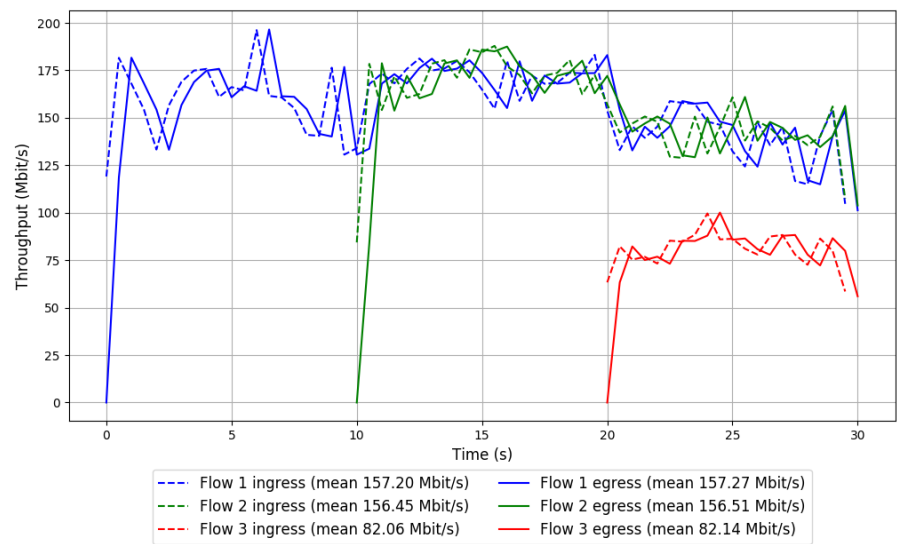
-- Flow 3:

Average throughput: 82.14 Mbit/s

95th percentile per-packet one-way delay: 1.141 ms

Loss rate: 0.16%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-07-18 10:47:04

End at: 2018-07-18 10:47:34

Local clock offset: 1.128 ms

Remote clock offset: 1.892 ms

Below is generated by plot.py at 2018-07-18 15:06:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 291.04 Mbit/s

95th percentile per-packet one-way delay: 1.284 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 160.08 Mbit/s

95th percentile per-packet one-way delay: 1.273 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 156.46 Mbit/s

95th percentile per-packet one-way delay: 1.284 ms

Loss rate: 0.11%

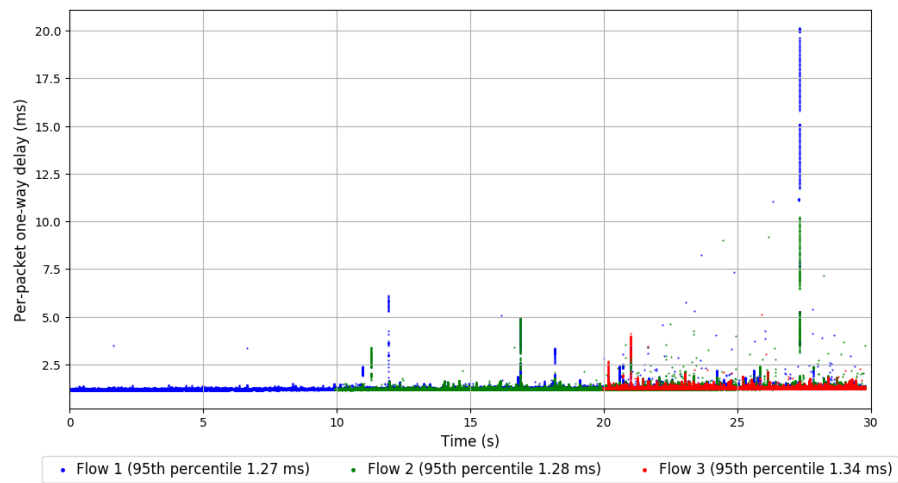
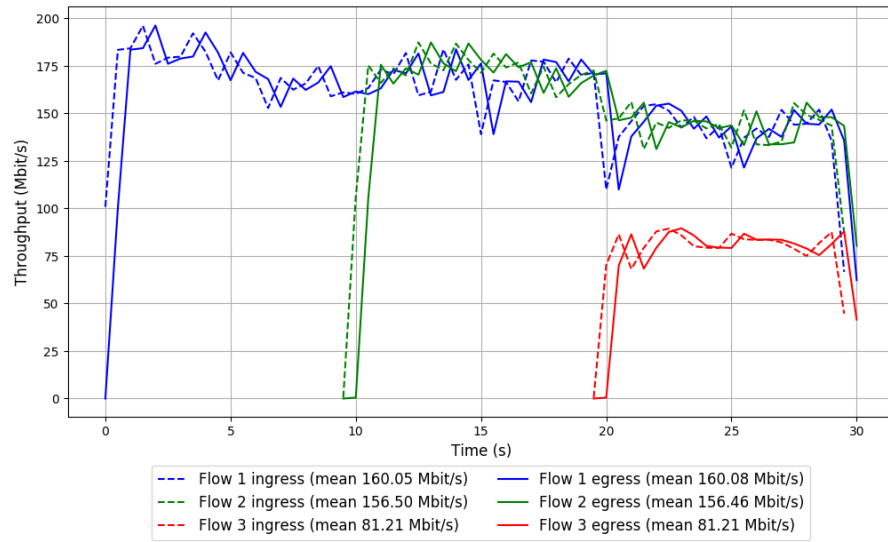
-- Flow 3:

Average throughput: 81.21 Mbit/s

95th percentile per-packet one-way delay: 1.341 ms

Loss rate: 0.21%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-07-18 11:13:59

End at: 2018-07-18 11:14:29

Local clock offset: -0.467 ms

Remote clock offset: 2.186 ms

Below is generated by plot.py at 2018-07-18 15:06:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 289.90 Mbit/s

95th percentile per-packet one-way delay: 1.010 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 149.31 Mbit/s

95th percentile per-packet one-way delay: 1.000 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 157.95 Mbit/s

95th percentile per-packet one-way delay: 1.018 ms

Loss rate: 0.06%

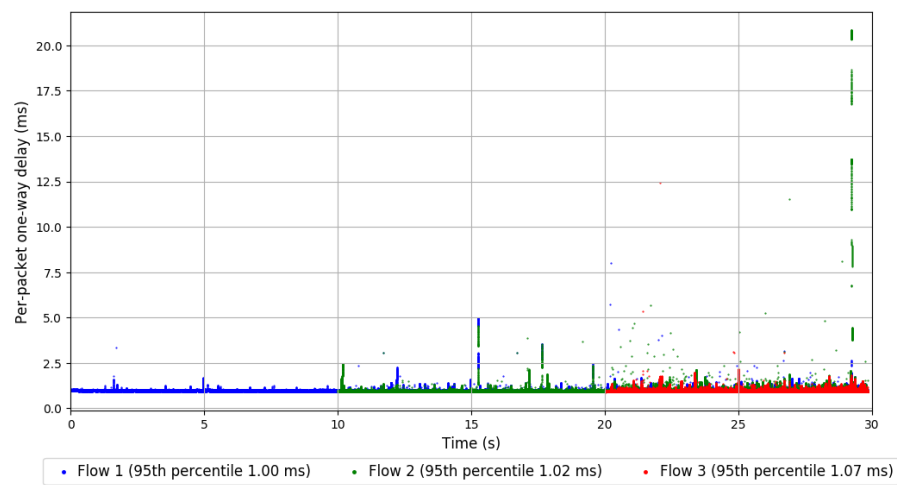
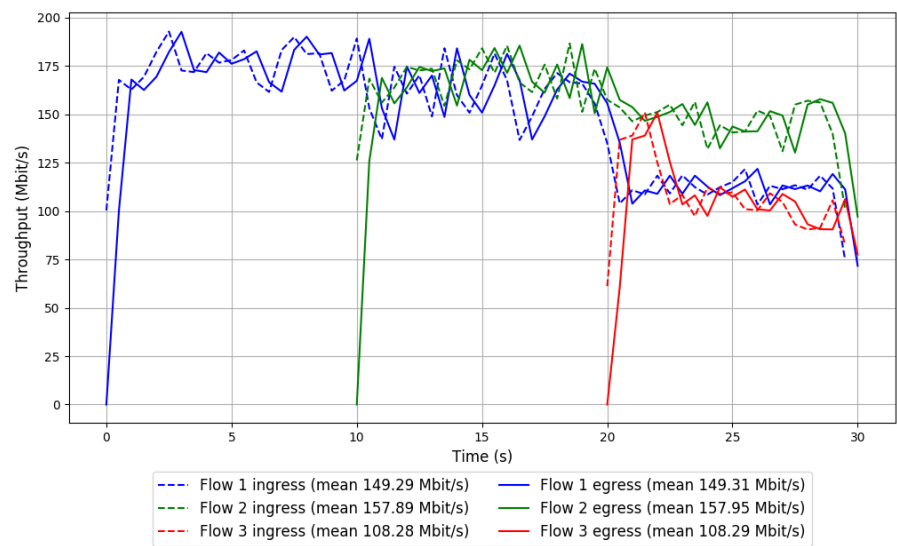
-- Flow 3:

Average throughput: 108.29 Mbit/s

95th percentile per-packet one-way delay: 1.070 ms

Loss rate: 0.24%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-07-18 11:40:52

End at: 2018-07-18 11:41:22

Local clock offset: -0.316 ms

Remote clock offset: 2.123 ms

Below is generated by plot.py at 2018-07-18 15:06:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 298.59 Mbit/s

95th percentile per-packet one-way delay: 1.032 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 154.76 Mbit/s

95th percentile per-packet one-way delay: 1.028 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 150.03 Mbit/s

95th percentile per-packet one-way delay: 1.030 ms

Loss rate: 0.09%

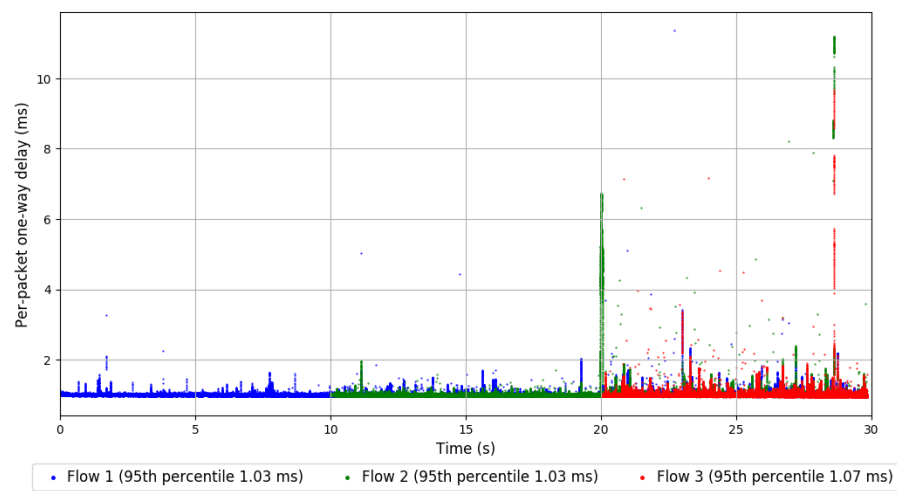
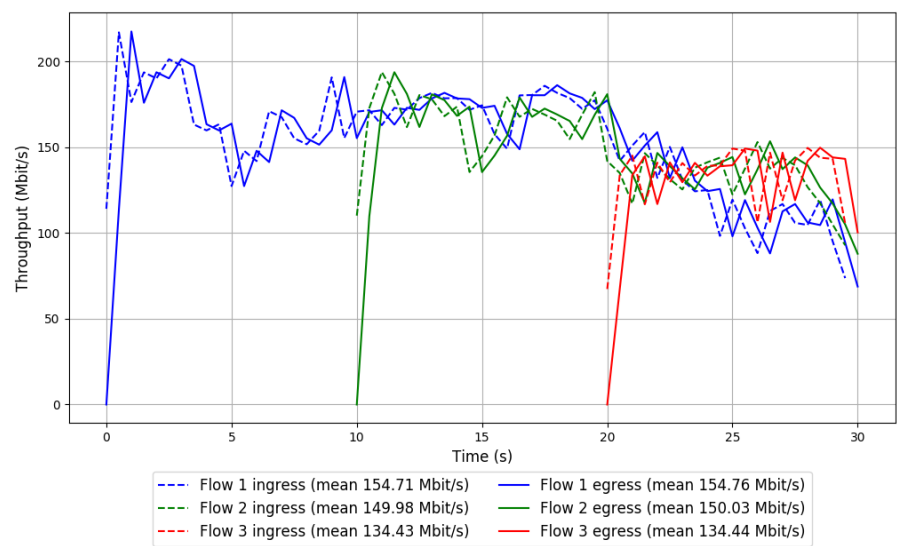
-- Flow 3:

Average throughput: 134.44 Mbit/s

95th percentile per-packet one-way delay: 1.074 ms

Loss rate: 0.20%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-07-18 12:07:52

End at: 2018-07-18 12:08:22

Local clock offset: -0.208 ms

Remote clock offset: 1.909 ms

Below is generated by plot.py at 2018-07-18 15:06:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 291.72 Mbit/s

95th percentile per-packet one-way delay: 1.101 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 159.52 Mbit/s

95th percentile per-packet one-way delay: 1.092 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 157.09 Mbit/s

95th percentile per-packet one-way delay: 1.108 ms

Loss rate: 0.10%

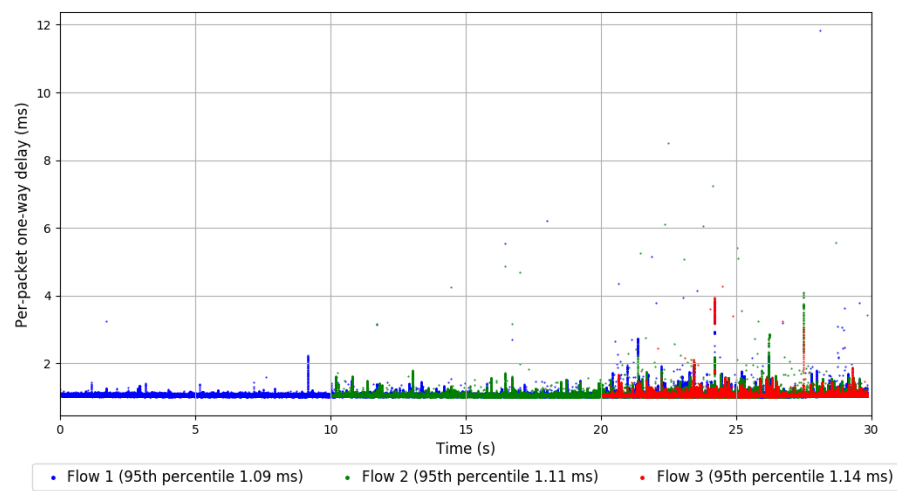
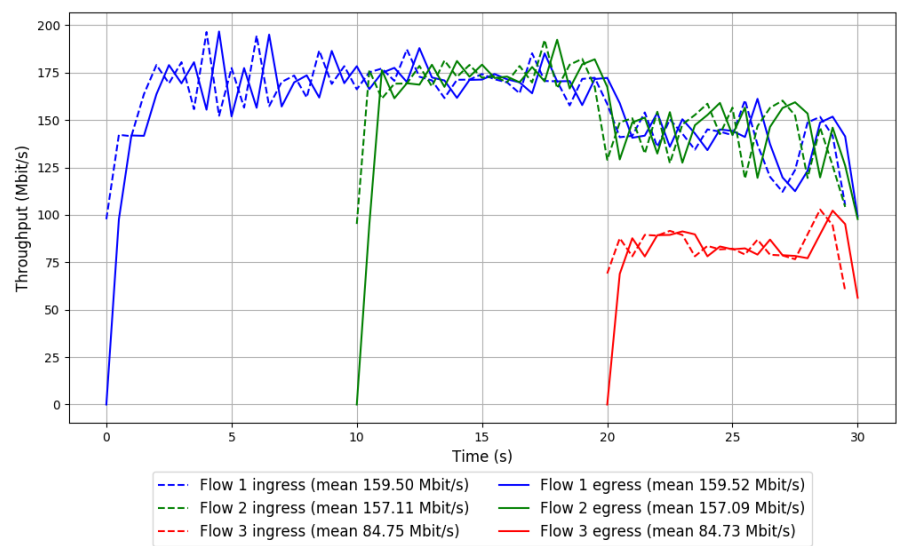
-- Flow 3:

Average throughput: 84.73 Mbit/s

95th percentile per-packet one-way delay: 1.135 ms

Loss rate: 0.22%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-07-18 12:34:46

End at: 2018-07-18 12:35:16

Local clock offset: -3.523 ms

Remote clock offset: 1.237 ms

Below is generated by plot.py at 2018-07-18 15:06:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 276.15 Mbit/s

95th percentile per-packet one-way delay: 1.177 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 151.54 Mbit/s

95th percentile per-packet one-way delay: 1.165 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 149.23 Mbit/s

95th percentile per-packet one-way delay: 1.177 ms

Loss rate: 0.11%

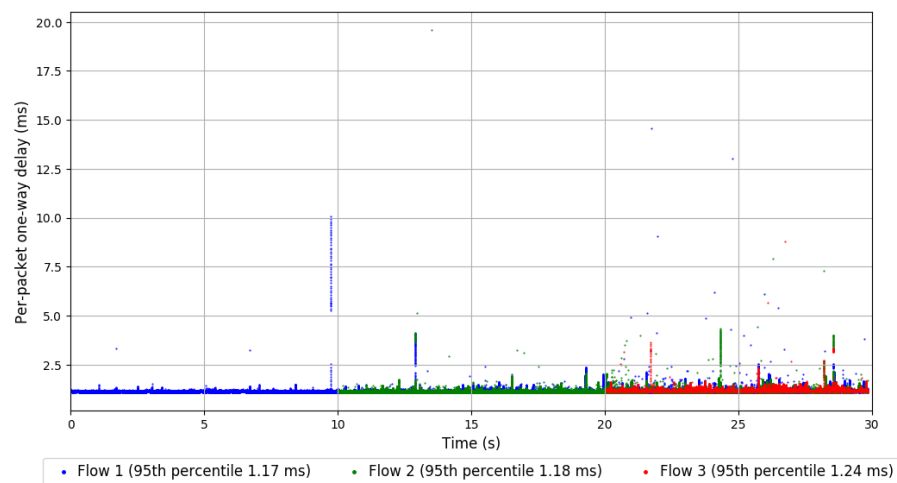
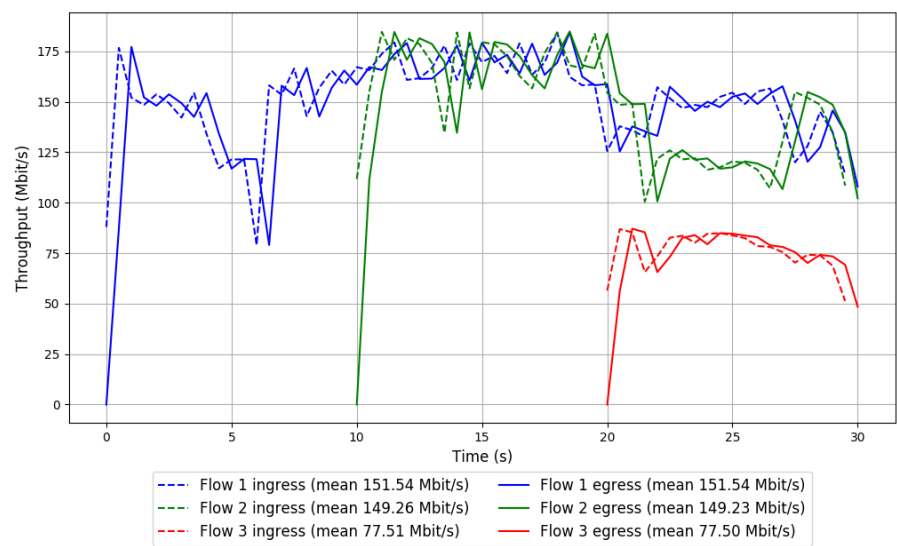
-- Flow 3:

Average throughput: 77.50 Mbit/s

95th percentile per-packet one-way delay: 1.235 ms

Loss rate: 0.21%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-07-18 13:01:46

End at: 2018-07-18 13:02:16

Local clock offset: 0.3 ms

Remote clock offset: 0.676 ms

Below is generated by plot.py at 2018-07-18 15:06:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 263.81 Mbit/s

95th percentile per-packet one-way delay: 0.984 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 128.03 Mbit/s

95th percentile per-packet one-way delay: 0.988 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 154.87 Mbit/s

95th percentile per-packet one-way delay: 0.963 ms

Loss rate: 0.09%

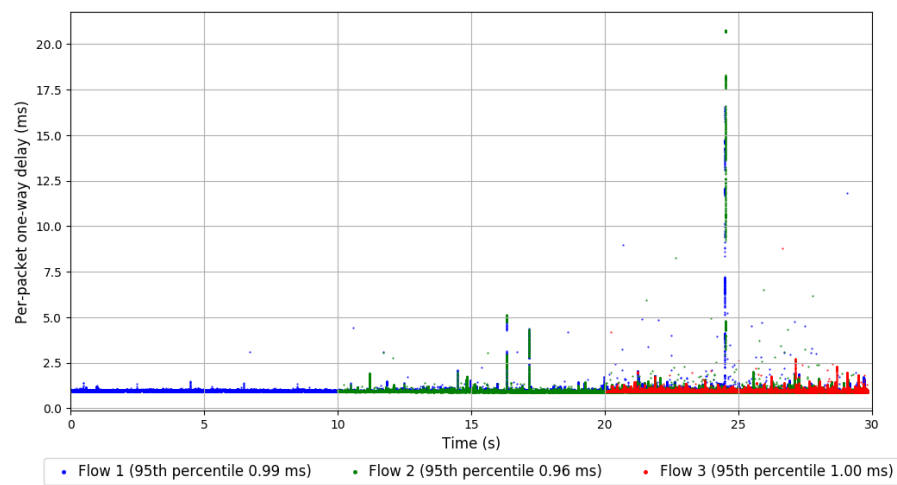
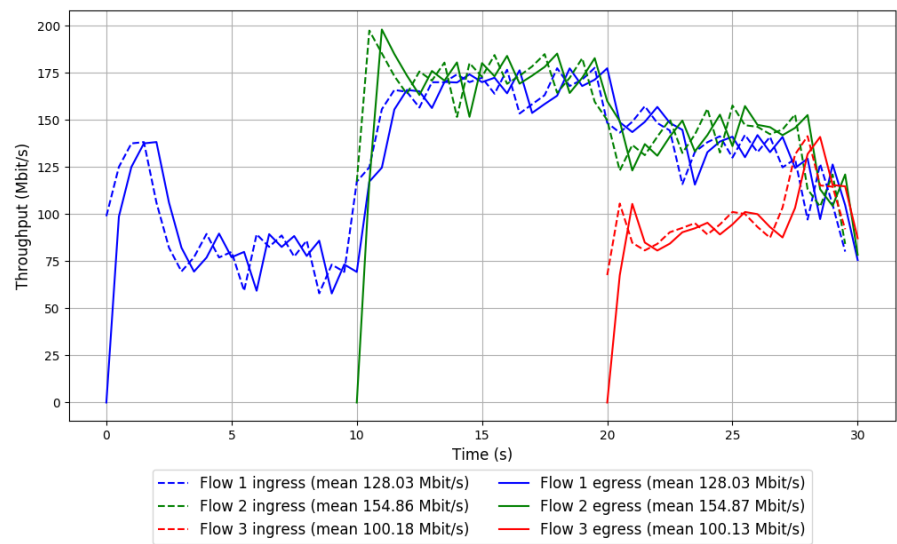
-- Flow 3:

Average throughput: 100.13 Mbit/s

95th percentile per-packet one-way delay: 1.000 ms

Loss rate: 0.25%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-18 13:28:41

End at: 2018-07-18 13:29:11

Local clock offset: 3.868 ms

Remote clock offset: 0.321 ms

Below is generated by plot.py at 2018-07-18 15:06:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 283.58 Mbit/s

95th percentile per-packet one-way delay: 1.024 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 154.76 Mbit/s

95th percentile per-packet one-way delay: 1.023 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 155.35 Mbit/s

95th percentile per-packet one-way delay: 1.025 ms

Loss rate: 0.08%

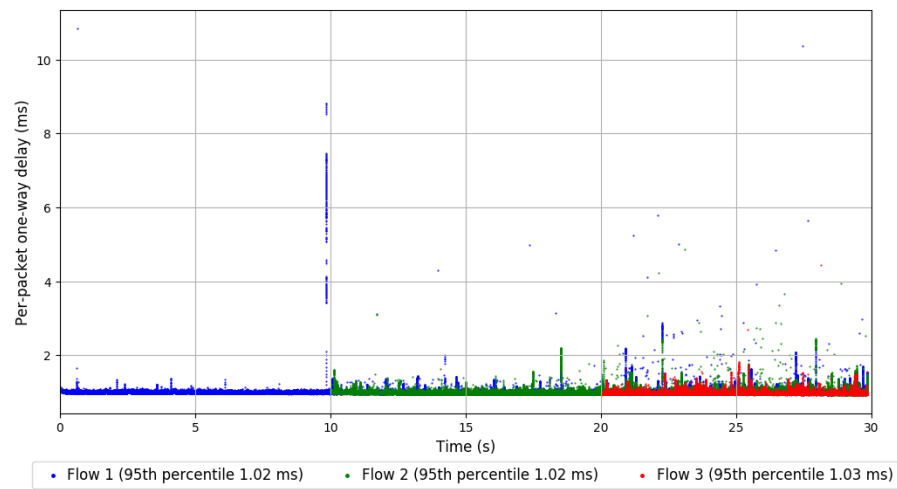
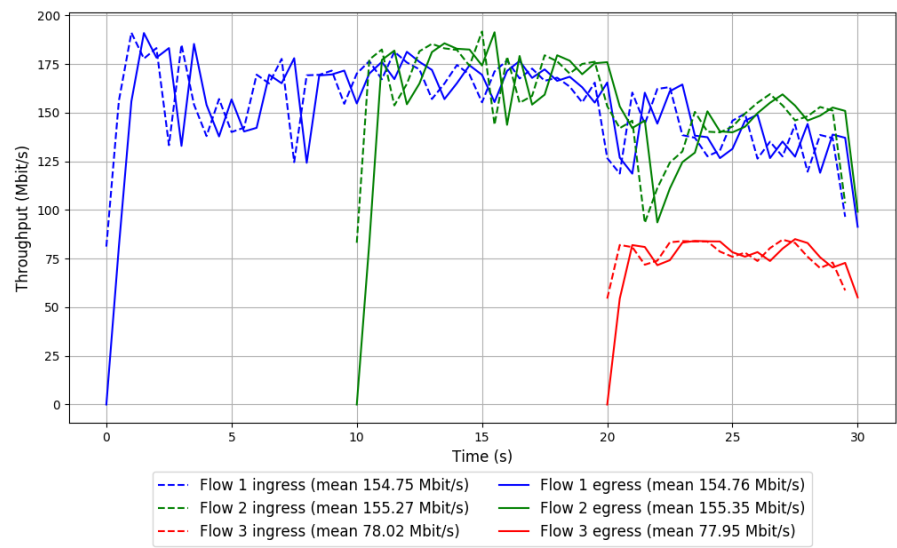
-- Flow 3:

Average throughput: 77.95 Mbit/s

95th percentile per-packet one-way delay: 1.028 ms

Loss rate: 0.25%

Run 10: Report of Indigo — Data Link

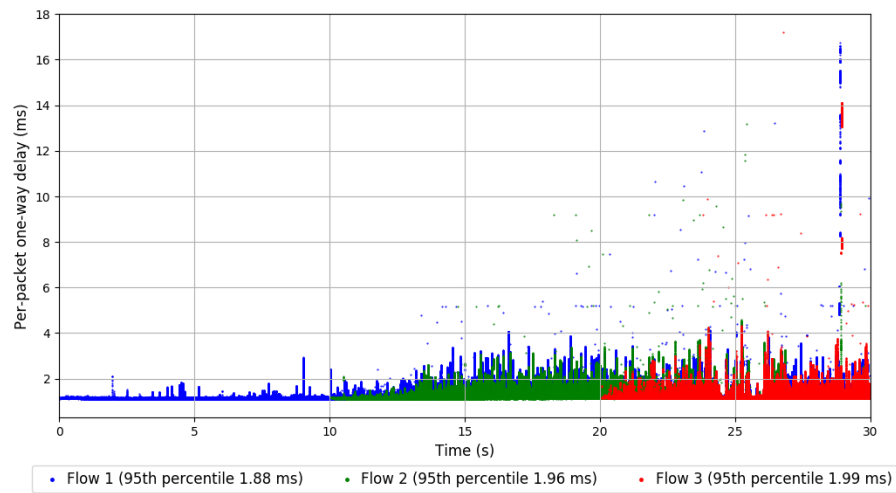
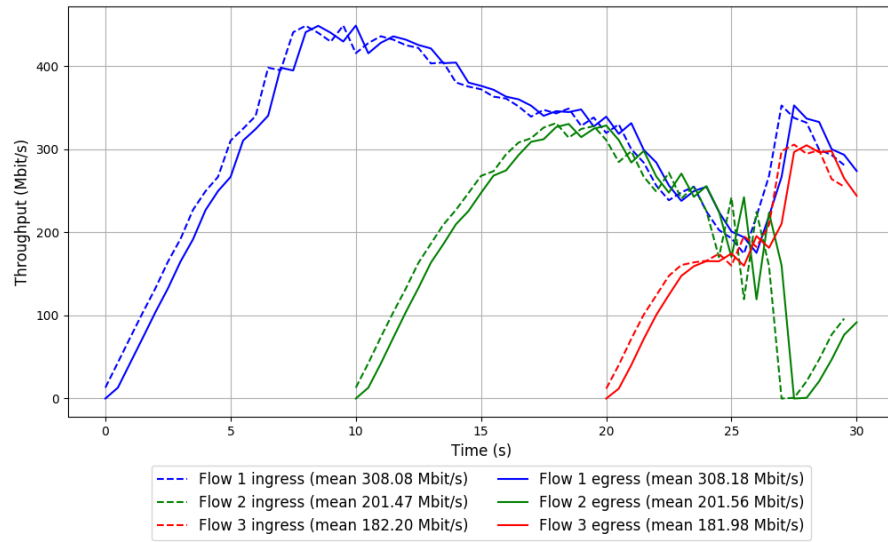


```
Run 1: Statistics of LEDBAT

Start at: 2018-07-18 09:07:09
End at: 2018-07-18 09:07:39
Local clock offset: -4.562 ms
Remote clock offset: -0.13 ms

# Below is generated by plot.py at 2018-07-18 15:06:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 502.63 Mbit/s
95th percentile per-packet one-way delay: 1.920 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 308.18 Mbit/s
95th percentile per-packet one-way delay: 1.882 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 201.56 Mbit/s
95th percentile per-packet one-way delay: 1.957 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 181.98 Mbit/s
95th percentile per-packet one-way delay: 1.985 ms
Loss rate: 0.31%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-07-18 09:34:09

End at: 2018-07-18 09:34:39

Local clock offset: 3.711 ms

Remote clock offset: 0.573 ms

Below is generated by plot.py at 2018-07-18 15:06:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 516.13 Mbit/s

95th percentile per-packet one-way delay: 1.706 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 324.92 Mbit/s

95th percentile per-packet one-way delay: 1.604 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 197.78 Mbit/s

95th percentile per-packet one-way delay: 1.872 ms

Loss rate: 0.11%

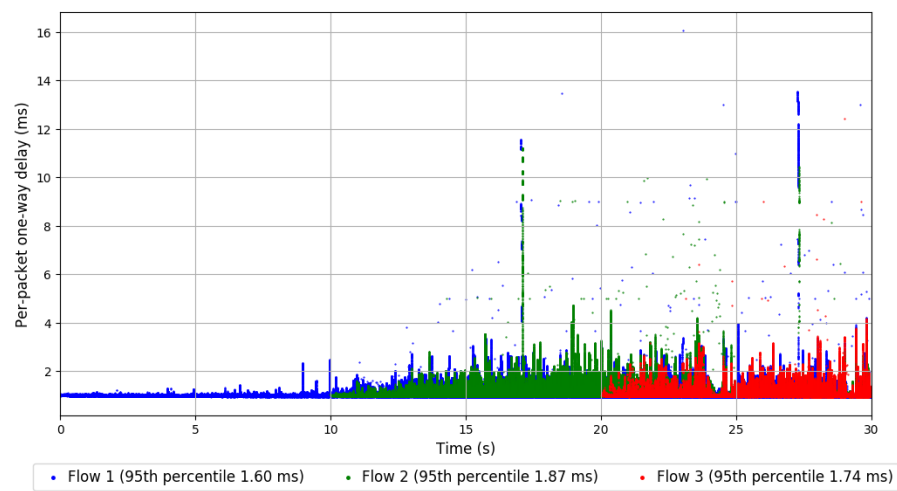
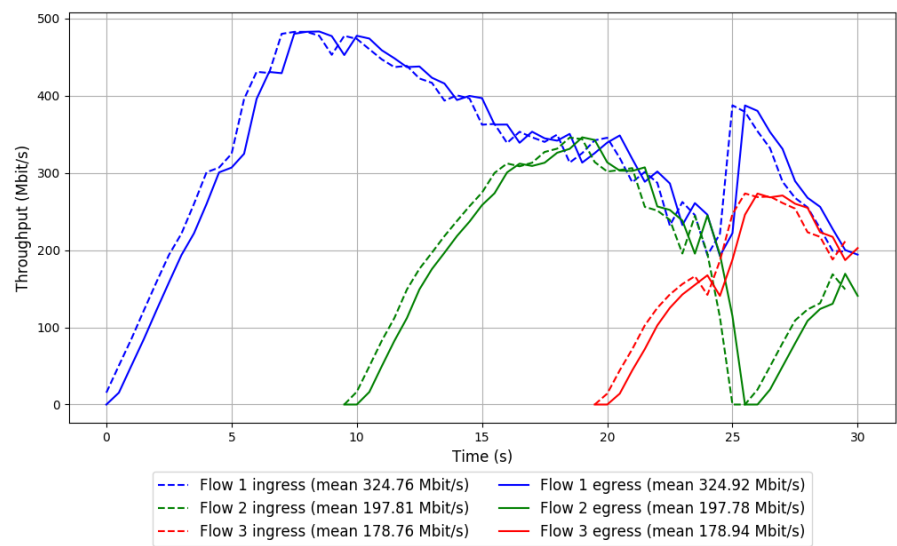
-- Flow 3:

Average throughput: 178.94 Mbit/s

95th percentile per-packet one-way delay: 1.744 ms

Loss rate: 0.27%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-07-18 10:01:01

End at: 2018-07-18 10:01:31

Local clock offset: 3.652 ms

Remote clock offset: 1.222 ms

Below is generated by plot.py at 2018-07-18 15:06:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 504.45 Mbit/s

95th percentile per-packet one-way delay: 1.781 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 302.78 Mbit/s

95th percentile per-packet one-way delay: 1.722 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 222.31 Mbit/s

95th percentile per-packet one-way delay: 1.897 ms

Loss rate: 0.03%

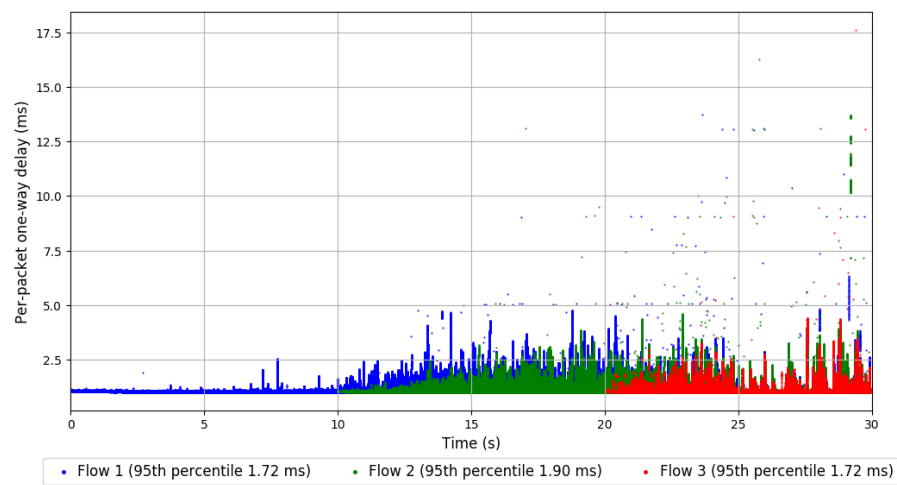
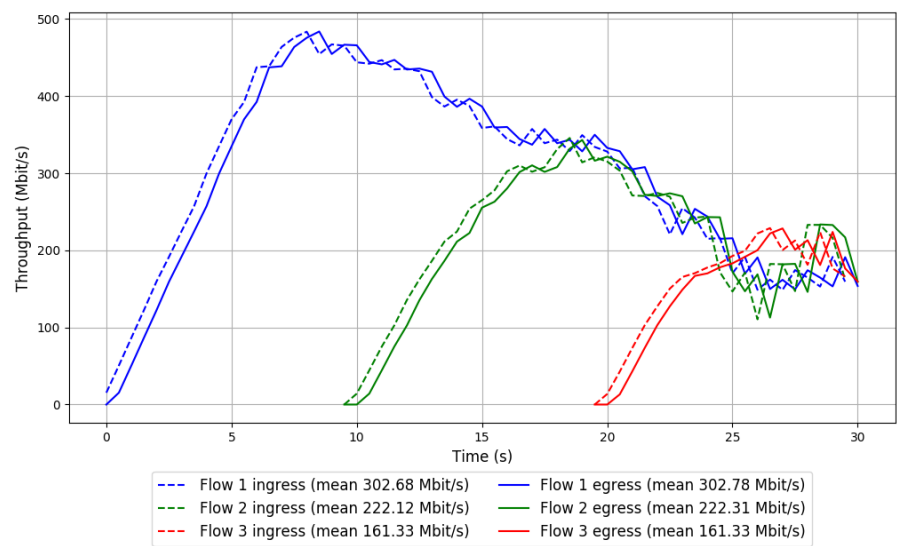
-- Flow 3:

Average throughput: 161.33 Mbit/s

95th percentile per-packet one-way delay: 1.716 ms

Loss rate: 0.20%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-07-18 10:27:56

End at: 2018-07-18 10:28:26

Local clock offset: 3.238 ms

Remote clock offset: 1.639 ms

Below is generated by plot.py at 2018-07-18 15:07:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 482.45 Mbit/s

95th percentile per-packet one-way delay: 1.632 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 281.54 Mbit/s

95th percentile per-packet one-way delay: 1.592 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 225.56 Mbit/s

95th percentile per-packet one-way delay: 1.738 ms

Loss rate: 0.06%

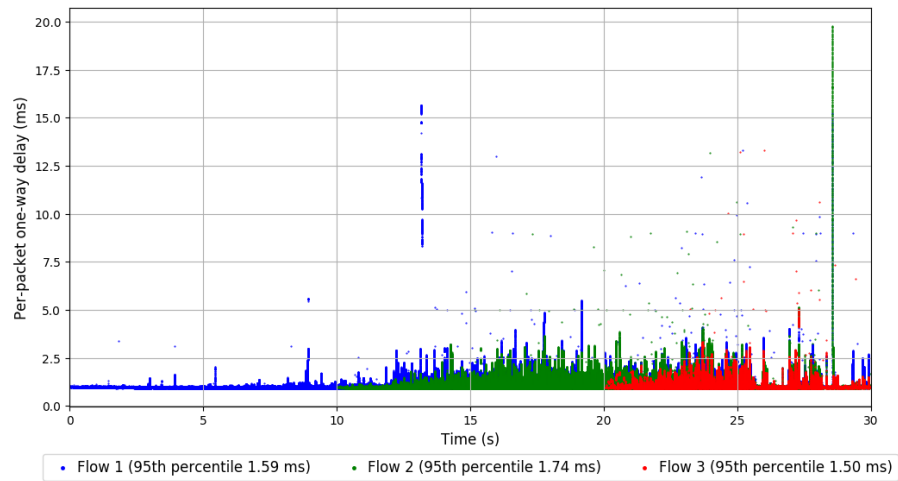
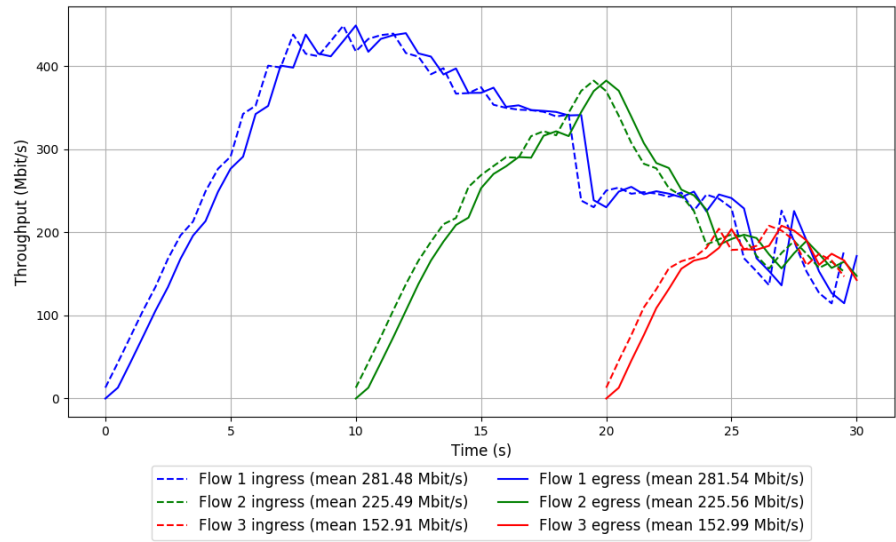
-- Flow 3:

Average throughput: 152.99 Mbit/s

95th percentile per-packet one-way delay: 1.500 ms

Loss rate: 0.15%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-07-18 10:54:49

End at: 2018-07-18 10:55:19

Local clock offset: 0.034 ms

Remote clock offset: 1.954 ms

Below is generated by plot.py at 2018-07-18 15:07:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 478.58 Mbit/s

95th percentile per-packet one-way delay: 1.779 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 284.27 Mbit/s

95th percentile per-packet one-way delay: 1.713 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 214.72 Mbit/s

95th percentile per-packet one-way delay: 1.896 ms

Loss rate: 0.04%

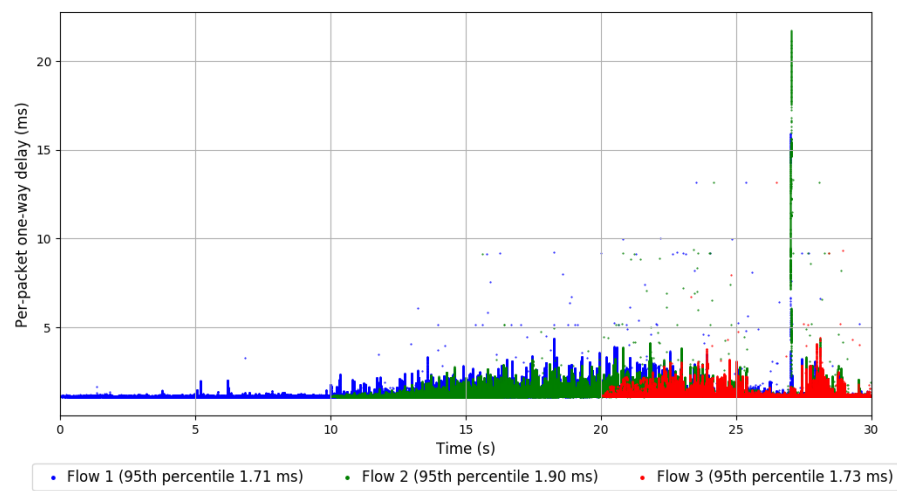
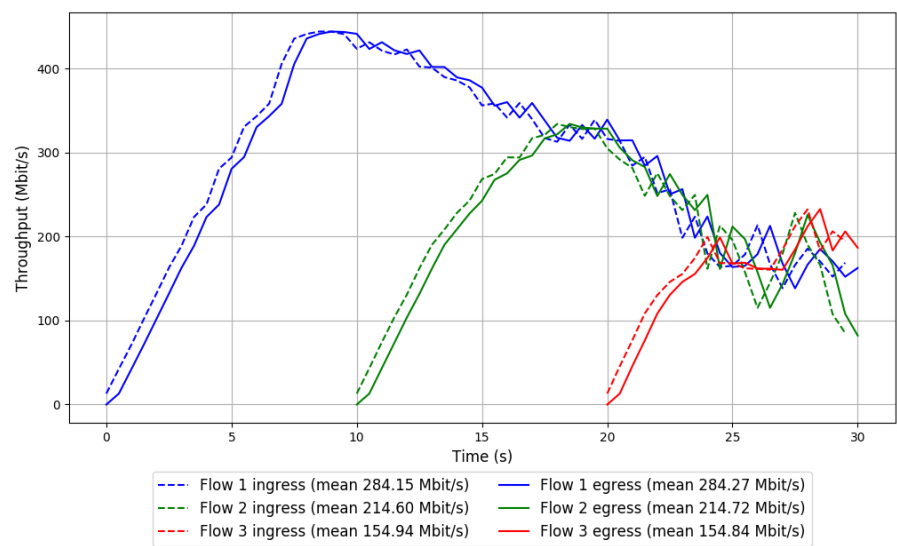
-- Flow 3:

Average throughput: 154.84 Mbit/s

95th percentile per-packet one-way delay: 1.727 ms

Loss rate: 0.26%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-07-18 11:21:41

End at: 2018-07-18 11:22:11

Local clock offset: -0.243 ms

Remote clock offset: 2.262 ms

Below is generated by plot.py at 2018-07-18 15:08:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 486.36 Mbit/s

95th percentile per-packet one-way delay: 1.722 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 288.19 Mbit/s

95th percentile per-packet one-way delay: 1.625 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 222.20 Mbit/s

95th percentile per-packet one-way delay: 1.850 ms

Loss rate: 0.07%

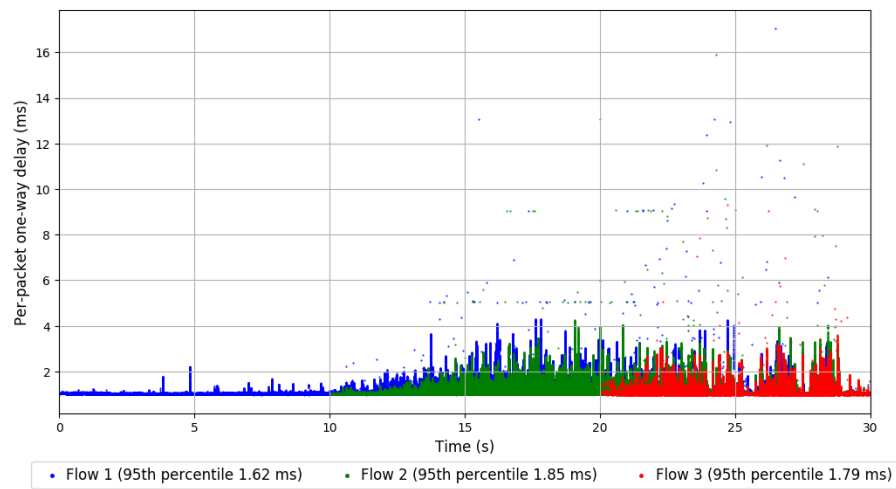
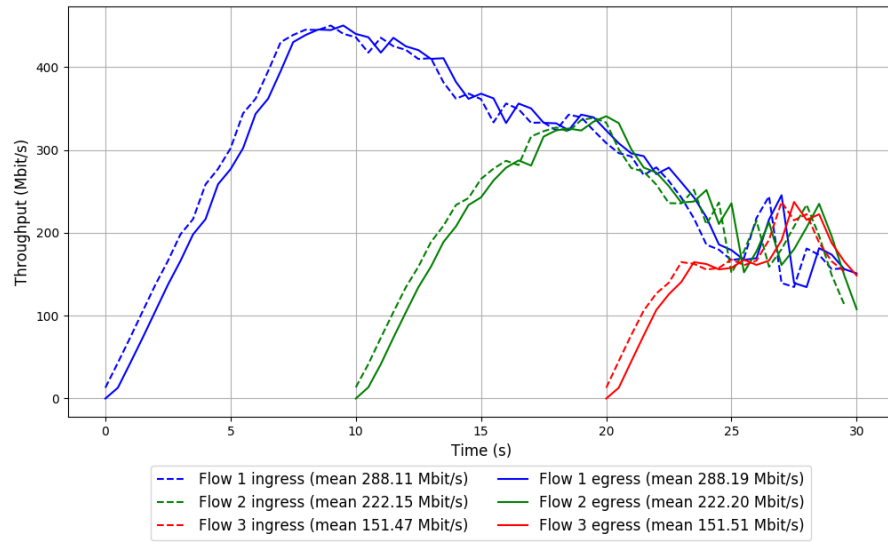
-- Flow 3:

Average throughput: 151.51 Mbit/s

95th percentile per-packet one-way delay: 1.786 ms

Loss rate: 0.18%

Run 6: Report of LEDBAT — Data Link

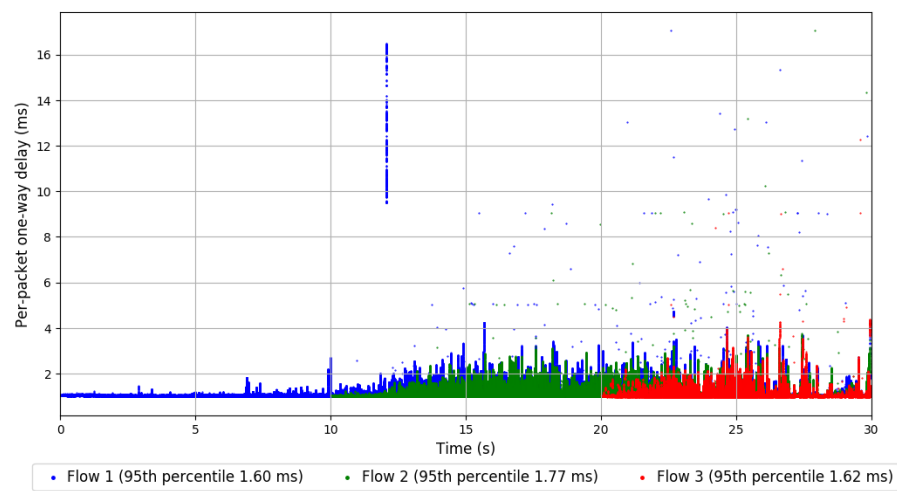
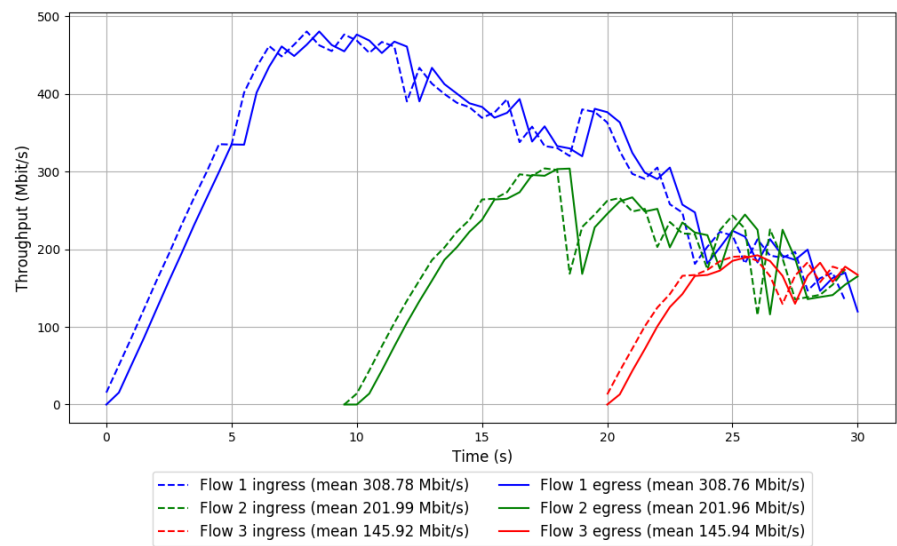


Run 7: Statistics of LEDBAT

Start at: 2018-07-18 11:48:38
End at: 2018-07-18 11:49:08
Local clock offset: -0.035 ms
Remote clock offset: 2.143 ms

```
# Below is generated by plot.py at 2018-07-18 15:10:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 491.70 Mbit/s
95th percentile per-packet one-way delay: 1.658 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 308.76 Mbit/s
95th percentile per-packet one-way delay: 1.601 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 201.96 Mbit/s
95th percentile per-packet one-way delay: 1.769 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 145.94 Mbit/s
95th percentile per-packet one-way delay: 1.622 ms
Loss rate: 0.20%
```

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-07-18 12:15:32

End at: 2018-07-18 12:16:02

Local clock offset: -1.844 ms

Remote clock offset: 1.742 ms

Below is generated by plot.py at 2018-07-18 15:11:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 499.64 Mbit/s

95th percentile per-packet one-way delay: 1.845 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 296.87 Mbit/s

95th percentile per-packet one-way delay: 1.742 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 229.93 Mbit/s

95th percentile per-packet one-way delay: 1.995 ms

Loss rate: 0.05%

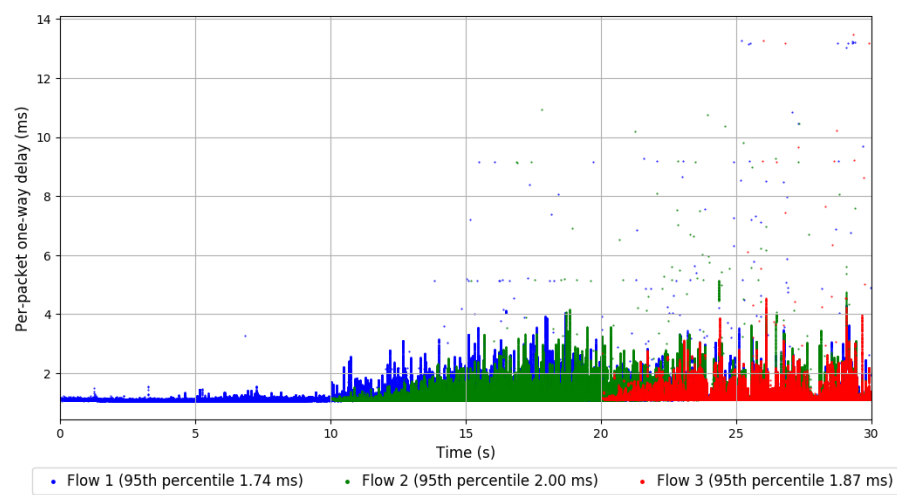
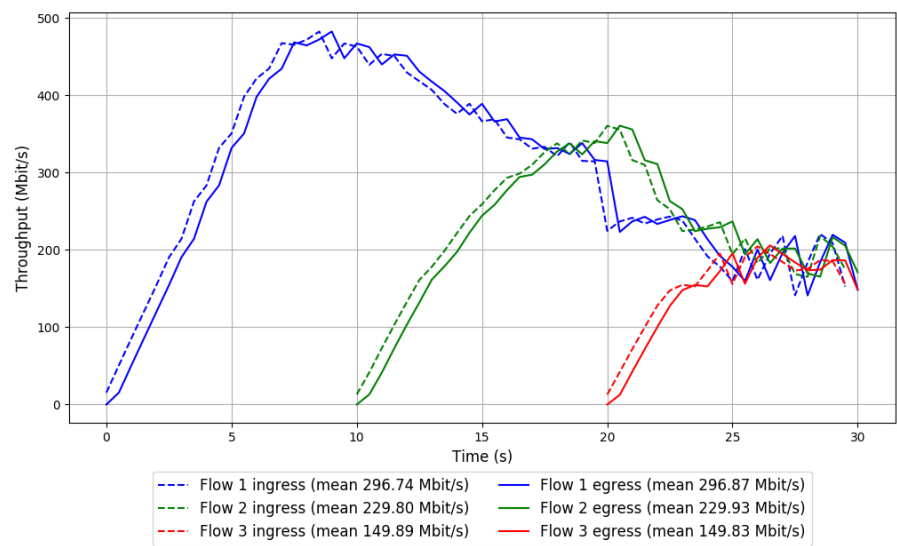
-- Flow 3:

Average throughput: 149.83 Mbit/s

95th percentile per-packet one-way delay: 1.866 ms

Loss rate: 0.25%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-18 12:42:26

End at: 2018-07-18 12:42:56

Local clock offset: -2.36 ms

Remote clock offset: 1.103 ms

Below is generated by plot.py at 2018-07-18 15:11:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 497.08 Mbit/s

95th percentile per-packet one-way delay: 1.360 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 302.39 Mbit/s

95th percentile per-packet one-way delay: 1.264 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 200.21 Mbit/s

95th percentile per-packet one-way delay: 1.448 ms

Loss rate: 0.05%

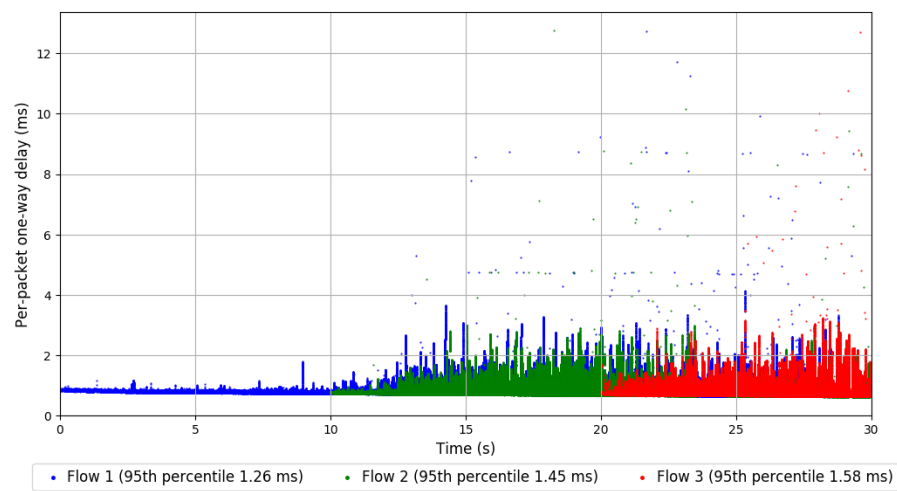
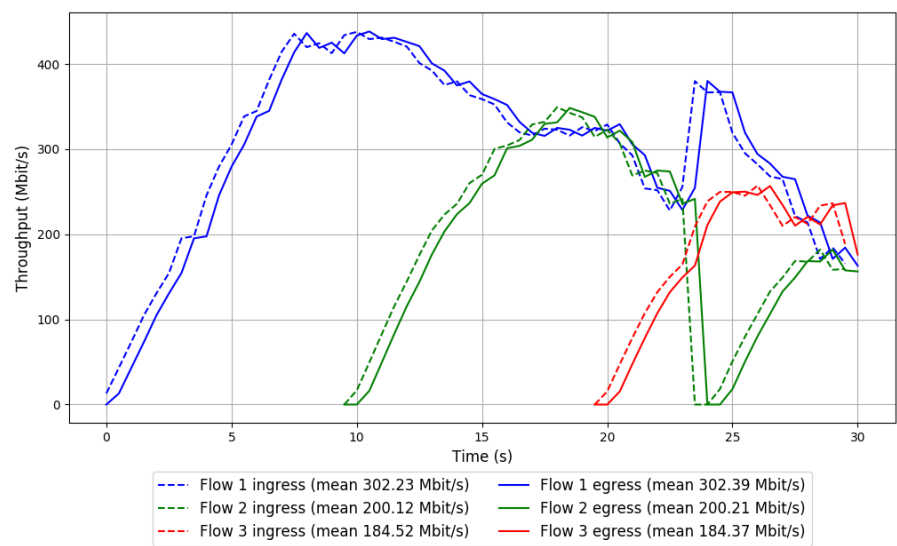
-- Flow 3:

Average throughput: 184.37 Mbit/s

95th percentile per-packet one-way delay: 1.585 ms

Loss rate: 0.34%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-18 13:09:27

End at: 2018-07-18 13:09:57

Local clock offset: 0.845 ms

Remote clock offset: 0.606 ms

Below is generated by plot.py at 2018-07-18 15:11:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 486.71 Mbit/s

95th percentile per-packet one-way delay: 1.473 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 255.52 Mbit/s

95th percentile per-packet one-way delay: 1.348 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 252.34 Mbit/s

95th percentile per-packet one-way delay: 1.584 ms

Loss rate: 0.12%

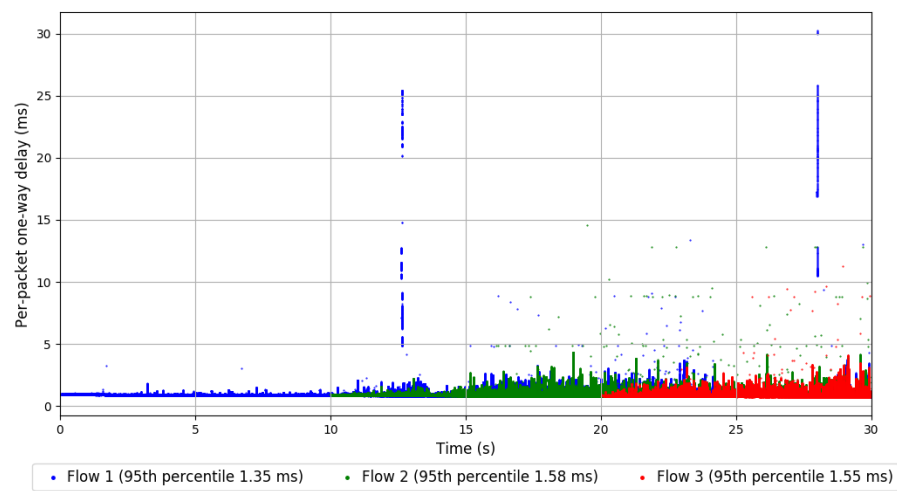
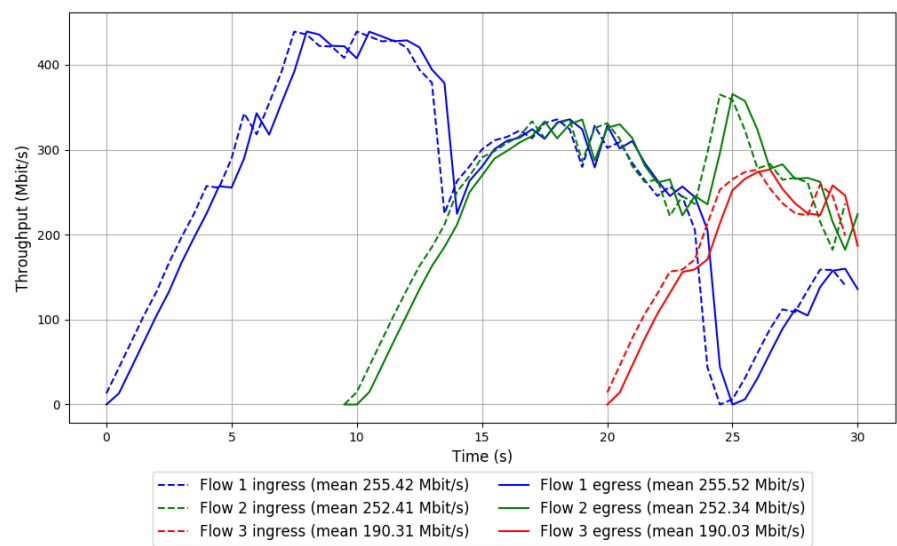
-- Flow 3:

Average throughput: 190.03 Mbit/s

95th percentile per-packet one-way delay: 1.548 ms

Loss rate: 0.34%

Run 10: Report of LEDBAT — Data Link

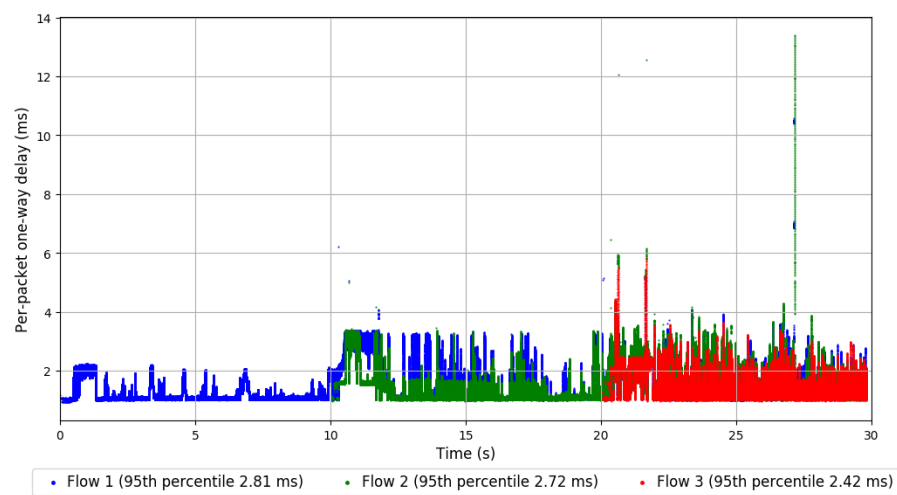
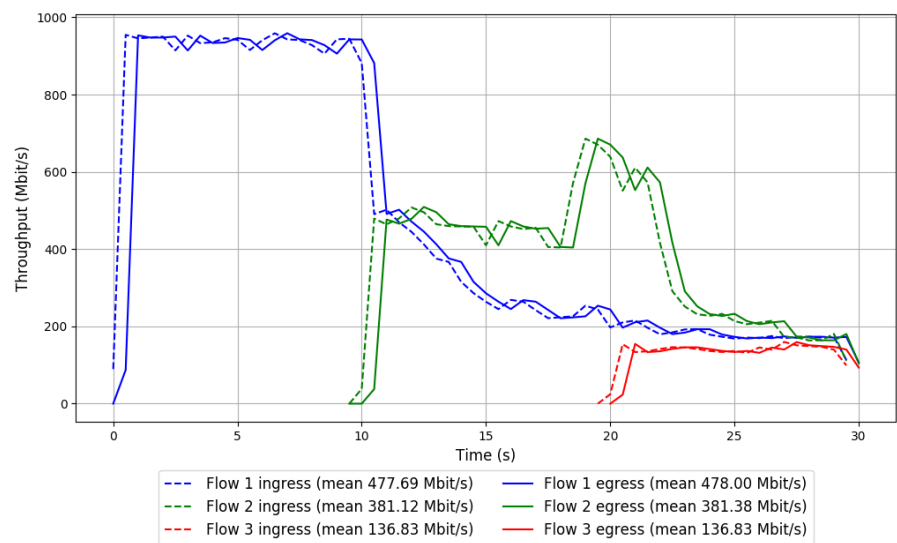


Run 1: Statistics of PCC-Allegro

Start at: 2018-07-18 09:03:49
End at: 2018-07-18 09:04:19
Local clock offset: -4.4 ms
Remote clock offset: -0.199 ms

Below is generated by plot.py at 2018-07-18 15:15:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 776.38 Mbit/s
95th percentile per-packet one-way delay: 2.717 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 478.00 Mbit/s
95th percentile per-packet one-way delay: 2.815 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 381.38 Mbit/s
95th percentile per-packet one-way delay: 2.720 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 136.83 Mbit/s
95th percentile per-packet one-way delay: 2.416 ms
Loss rate: 0.21%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-07-18 09:30:47

End at: 2018-07-18 09:31:17

Local clock offset: 3.28 ms

Remote clock offset: 0.451 ms

Below is generated by plot.py at 2018-07-18 15:16:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 844.35 Mbit/s

95th percentile per-packet one-way delay: 2.641 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 612.00 Mbit/s

95th percentile per-packet one-way delay: 2.628 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 274.60 Mbit/s

95th percentile per-packet one-way delay: 2.757 ms

Loss rate: 0.05%

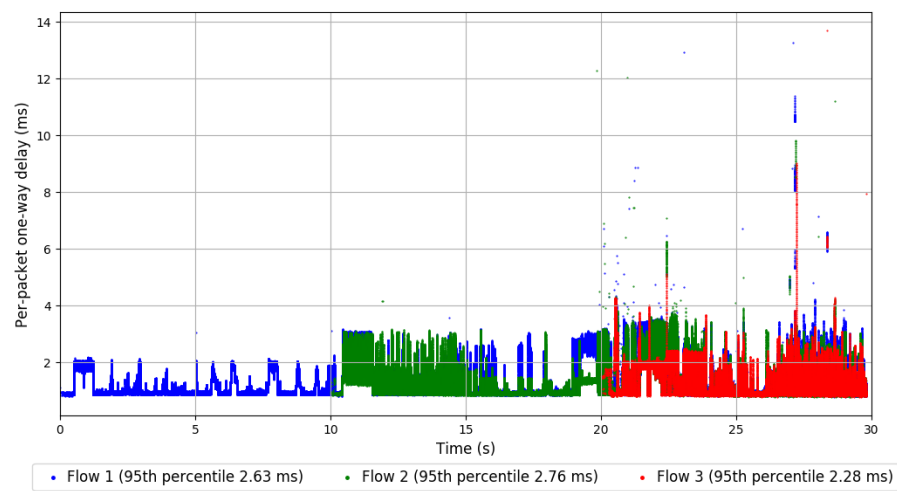
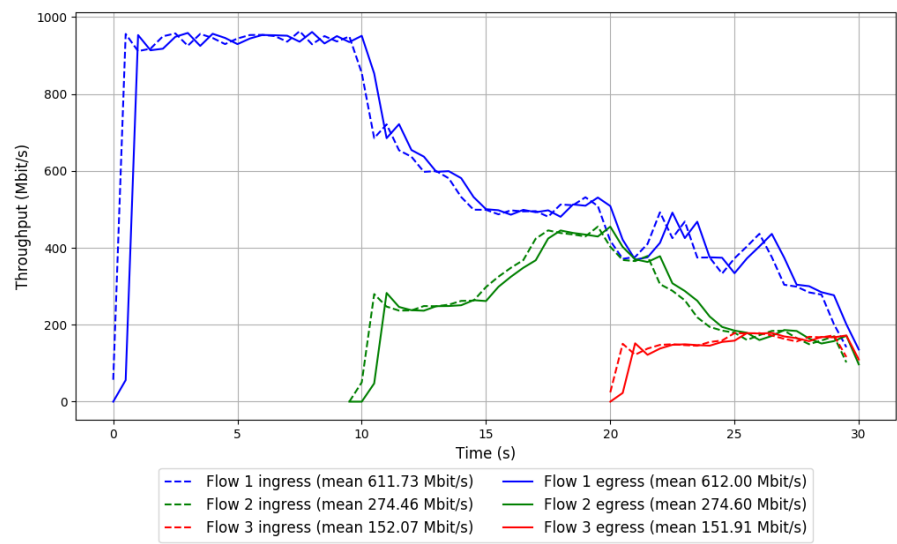
-- Flow 3:

Average throughput: 151.91 Mbit/s

95th percentile per-packet one-way delay: 2.283 ms

Loss rate: 0.24%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-18 09:57:42

End at: 2018-07-18 09:58:12

Local clock offset: 3.539 ms

Remote clock offset: 1.14 ms

Below is generated by plot.py at 2018-07-18 15:16:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 739.58 Mbit/s

95th percentile per-packet one-way delay: 1.994 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 608.10 Mbit/s

95th percentile per-packet one-way delay: 2.013 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 88.88 Mbit/s

95th percentile per-packet one-way delay: 1.572 ms

Loss rate: 0.14%

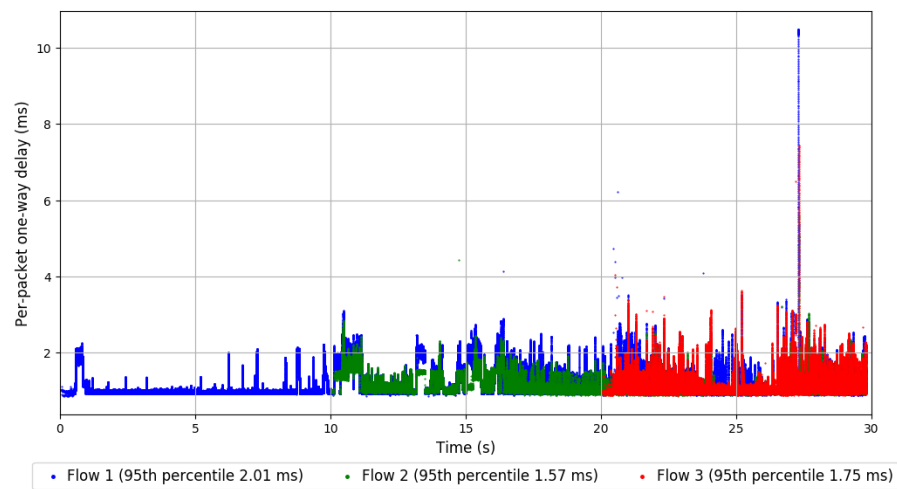
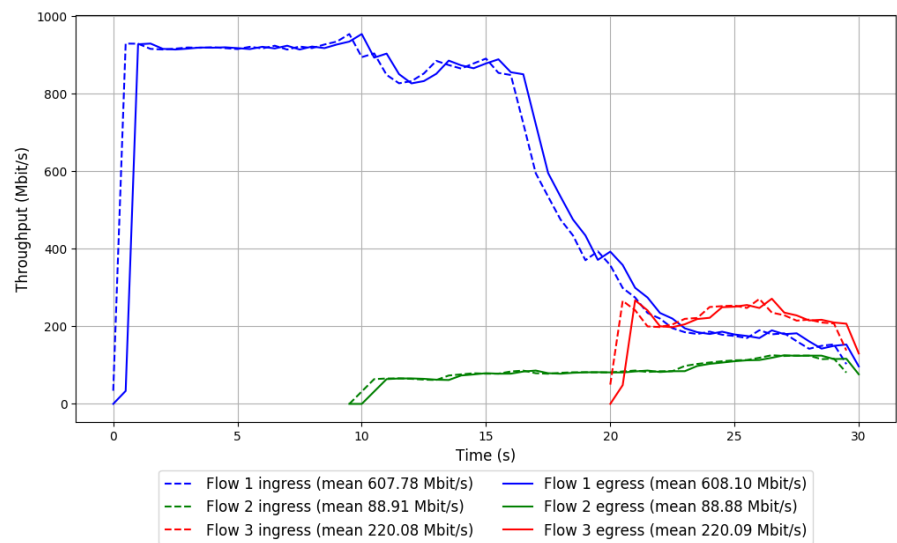
-- Flow 3:

Average throughput: 220.09 Mbit/s

95th percentile per-packet one-way delay: 1.754 ms

Loss rate: 0.20%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-18 10:24:35

End at: 2018-07-18 10:25:05

Local clock offset: 3.302 ms

Remote clock offset: 1.556 ms

Below is generated by plot.py at 2018-07-18 15:16:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 758.95 Mbit/s

95th percentile per-packet one-way delay: 2.027 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 677.55 Mbit/s

95th percentile per-packet one-way delay: 2.042 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 50.69 Mbit/s

95th percentile per-packet one-way delay: 1.529 ms

Loss rate: 0.19%

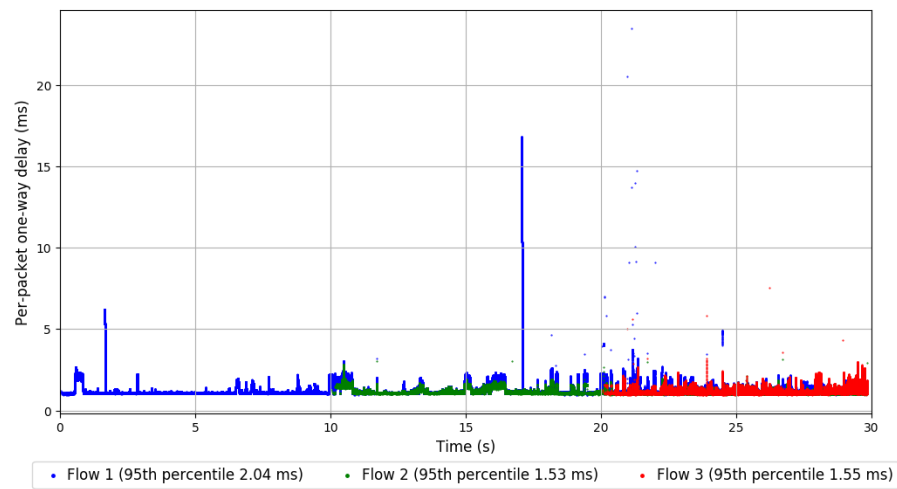
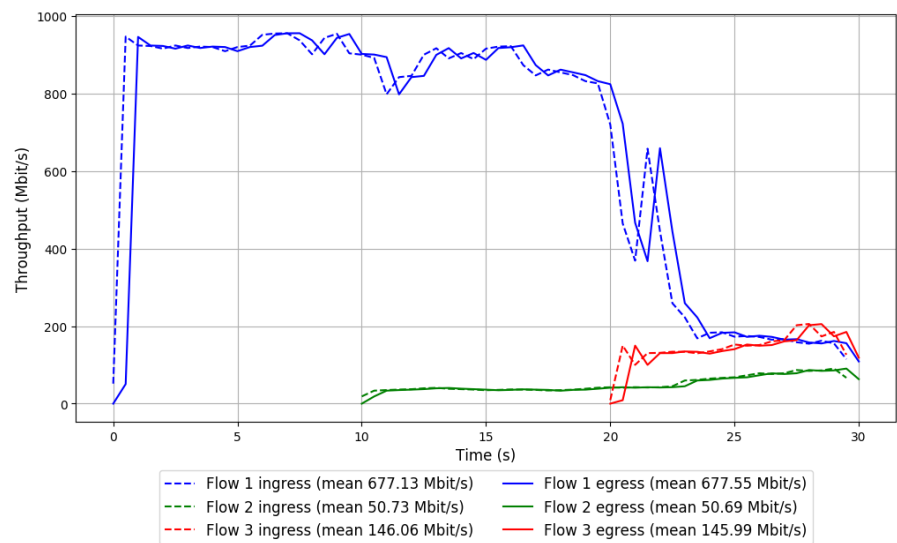
-- Flow 3:

Average throughput: 145.99 Mbit/s

95th percentile per-packet one-way delay: 1.552 ms

Loss rate: 0.28%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-07-18 10:51:28

End at: 2018-07-18 10:51:58

Local clock offset: 0.446 ms

Remote clock offset: 1.902 ms

Below is generated by plot.py at 2018-07-18 15:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 797.44 Mbit/s

95th percentile per-packet one-way delay: 3.196 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 499.88 Mbit/s

95th percentile per-packet one-way delay: 3.010 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 321.88 Mbit/s

95th percentile per-packet one-way delay: 3.223 ms

Loss rate: 0.05%

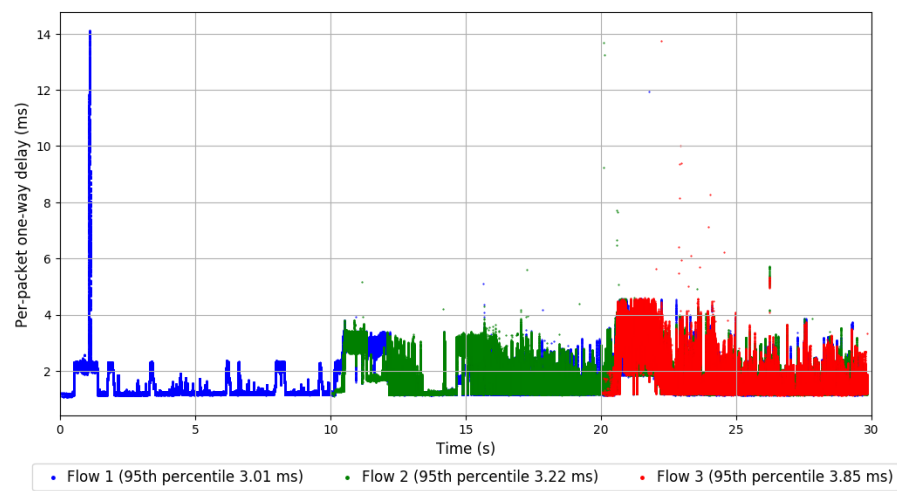
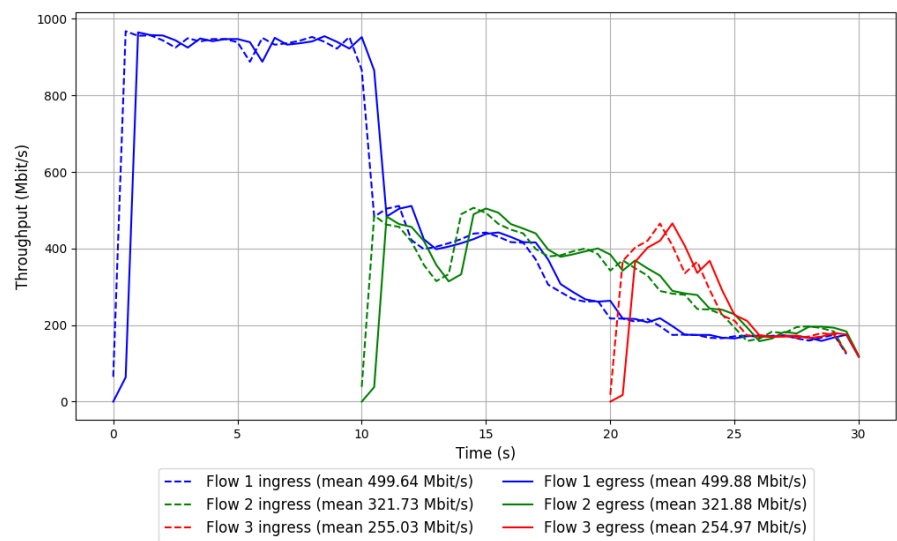
-- Flow 3:

Average throughput: 254.97 Mbit/s

95th percentile per-packet one-way delay: 3.851 ms

Loss rate: 0.21%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-18 11:18:21

End at: 2018-07-18 11:18:51

Local clock offset: -0.39 ms

Remote clock offset: 2.158 ms

Below is generated by plot.py at 2018-07-18 15:20:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 795.02 Mbit/s

95th percentile per-packet one-way delay: 1.941 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 715.28 Mbit/s

95th percentile per-packet one-way delay: 1.955 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 42.59 Mbit/s

95th percentile per-packet one-way delay: 1.485 ms

Loss rate: 0.21%

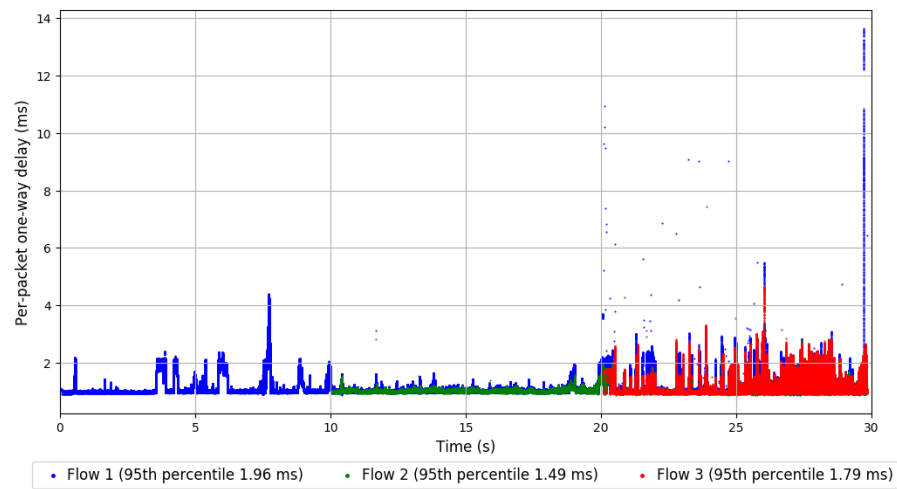
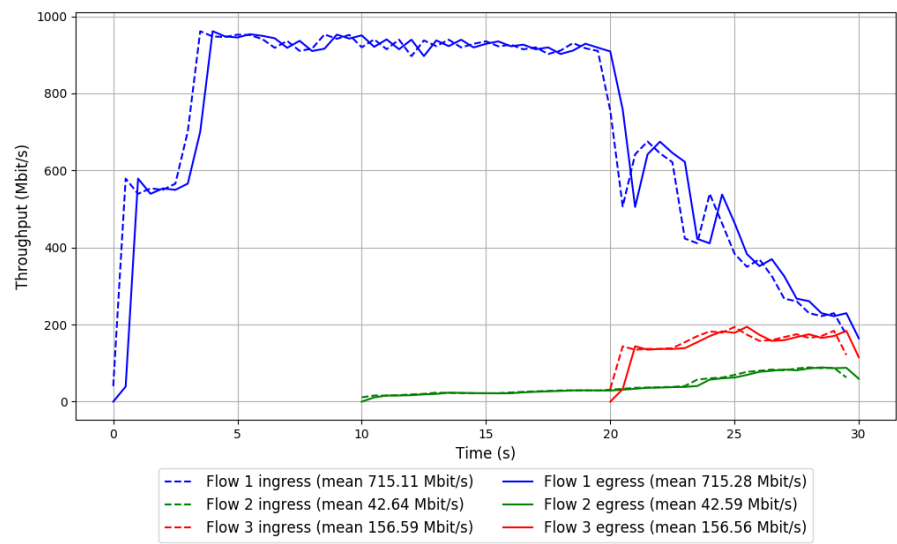
-- Flow 3:

Average throughput: 156.56 Mbit/s

95th percentile per-packet one-way delay: 1.791 ms

Loss rate: 0.22%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-18 11:45:15

End at: 2018-07-18 11:45:45

Local clock offset: -0.121 ms

Remote clock offset: 2.1 ms

Below is generated by plot.py at 2018-07-18 15:21:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 849.42 Mbit/s

95th percentile per-packet one-way delay: 2.977 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 513.26 Mbit/s

95th percentile per-packet one-way delay: 2.677 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 411.90 Mbit/s

95th percentile per-packet one-way delay: 3.079 ms

Loss rate: 0.05%

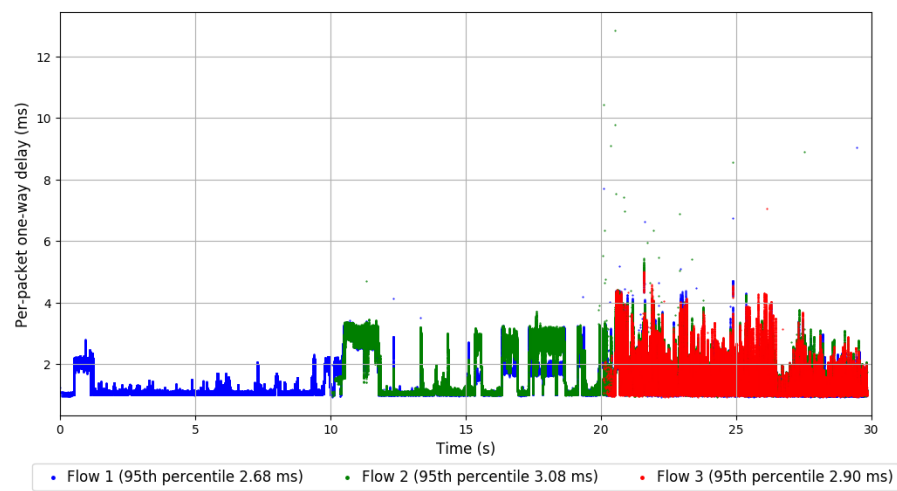
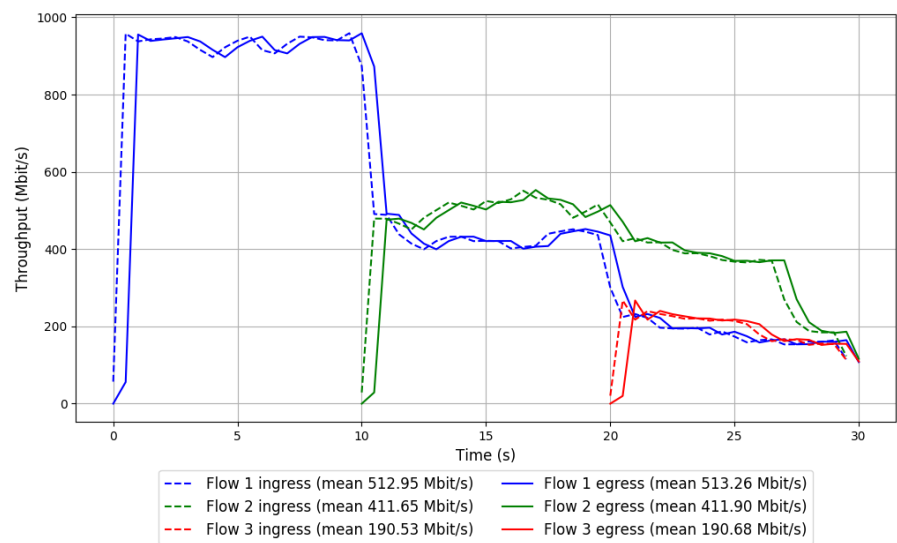
-- Flow 3:

Average throughput: 190.68 Mbit/s

95th percentile per-packet one-way delay: 2.899 ms

Loss rate: 0.12%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-07-18 12:12:11

End at: 2018-07-18 12:12:41

Local clock offset: -1.116 ms

Remote clock offset: 1.831 ms

Below is generated by plot.py at 2018-07-18 15:21:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 767.77 Mbit/s

95th percentile per-packet one-way delay: 2.645 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 590.65 Mbit/s

95th percentile per-packet one-way delay: 2.627 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 230.97 Mbit/s

95th percentile per-packet one-way delay: 2.884 ms

Loss rate: 0.07%

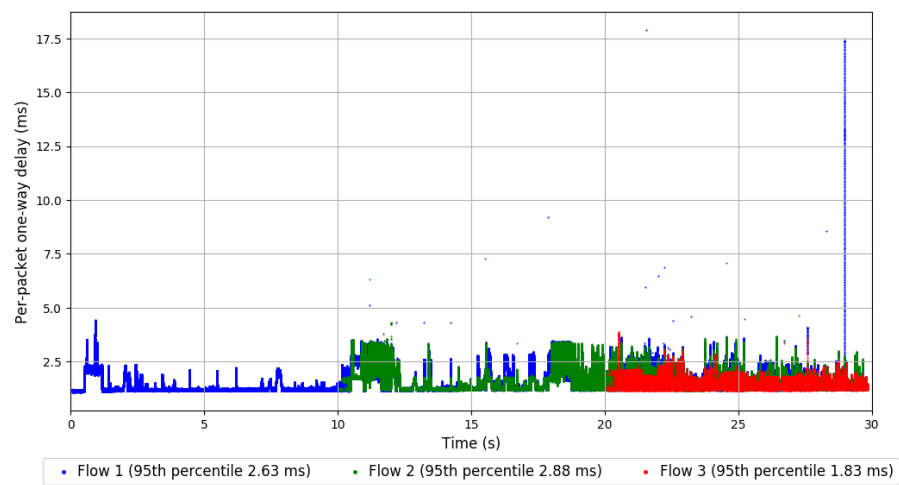
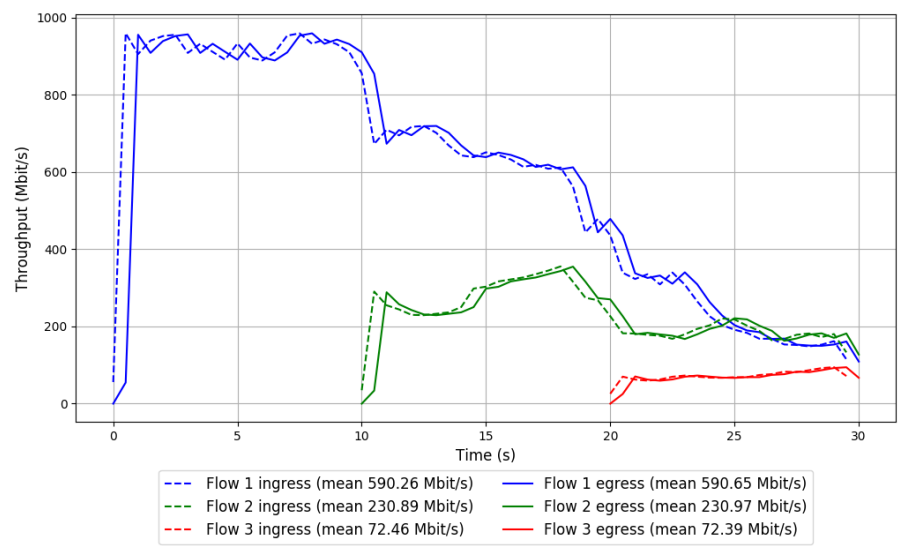
-- Flow 3:

Average throughput: 72.39 Mbit/s

95th percentile per-packet one-way delay: 1.834 ms

Loss rate: 0.34%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-18 12:39:06

End at: 2018-07-18 12:39:36

Local clock offset: -3.615 ms

Remote clock offset: 1.202 ms

Below is generated by plot.py at 2018-07-18 15:23:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 742.21 Mbit/s

95th percentile per-packet one-way delay: 2.447 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 489.84 Mbit/s

95th percentile per-packet one-way delay: 2.446 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 277.37 Mbit/s

95th percentile per-packet one-way delay: 2.537 ms

Loss rate: 0.06%

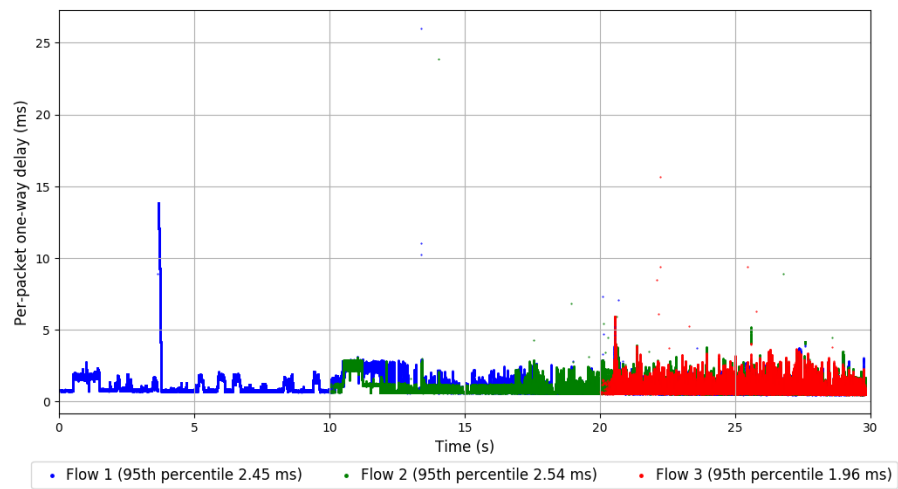
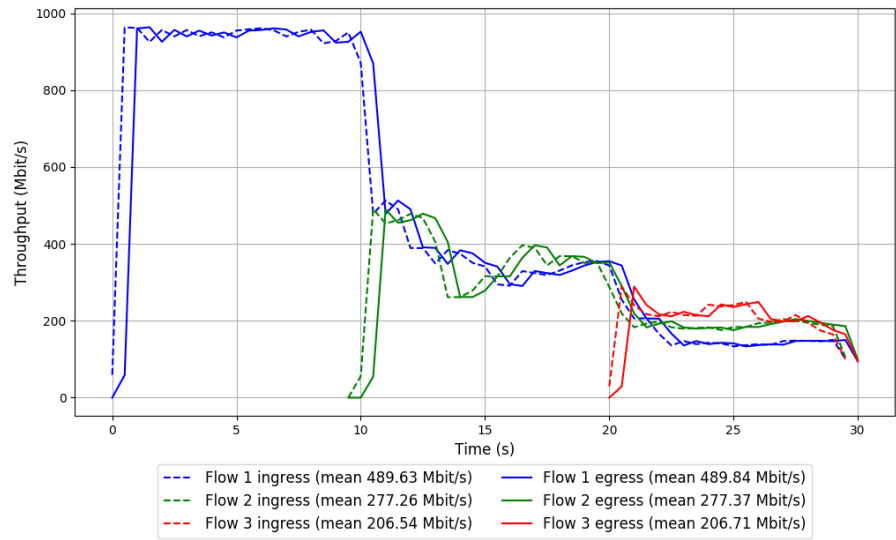
-- Flow 3:

Average throughput: 206.71 Mbit/s

95th percentile per-packet one-way delay: 1.955 ms

Loss rate: 0.12%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

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

End at: 2018-07-18 13:06:37

Local clock offset: 0.551 ms

Remote clock offset: 0.699 ms

Below is generated by plot.py at 2018-07-18 15:25:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 810.93 Mbit/s

95th percentile per-packet one-way delay: 2.066 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 637.90 Mbit/s

95th percentile per-packet one-way delay: 2.042 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 148.60 Mbit/s

95th percentile per-packet one-way delay: 1.883 ms

Loss rate: 0.12%

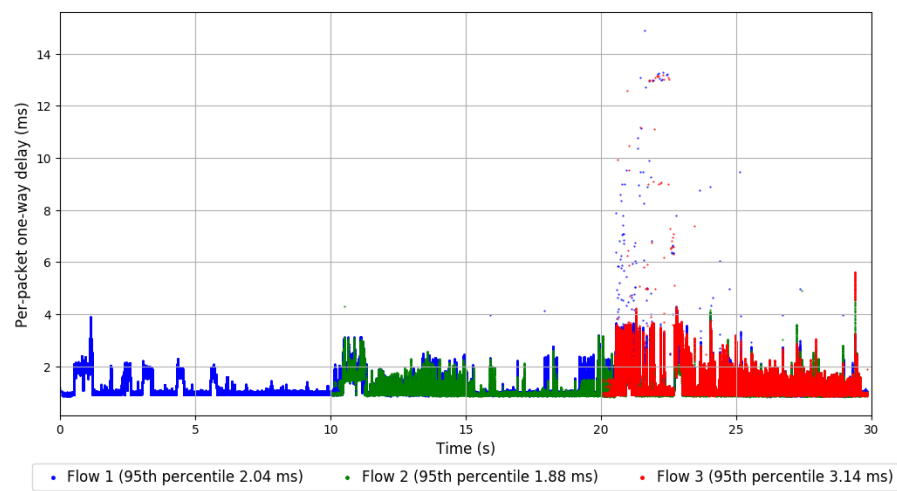
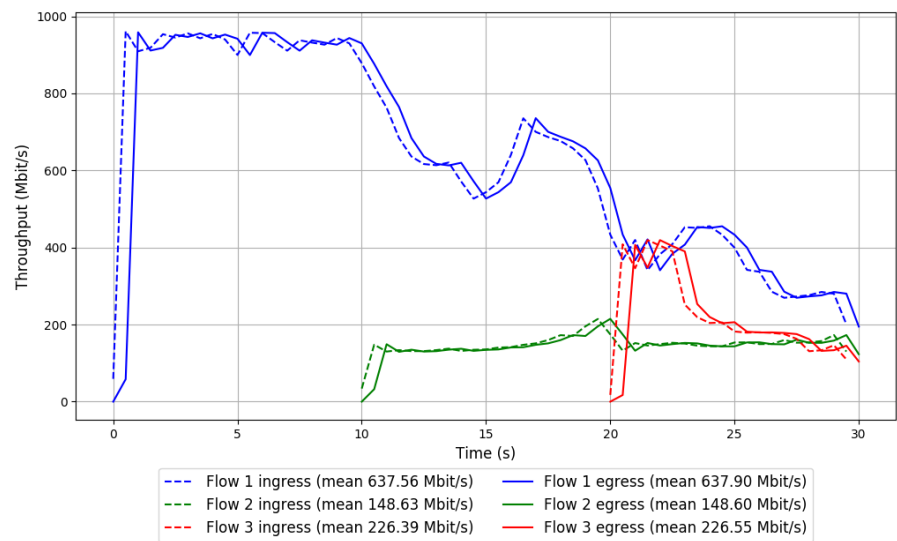
-- Flow 3:

Average throughput: 226.55 Mbit/s

95th percentile per-packet one-way delay: 3.144 ms

Loss rate: 0.14%

Run 10: Report of PCC-Allegro — Data Link

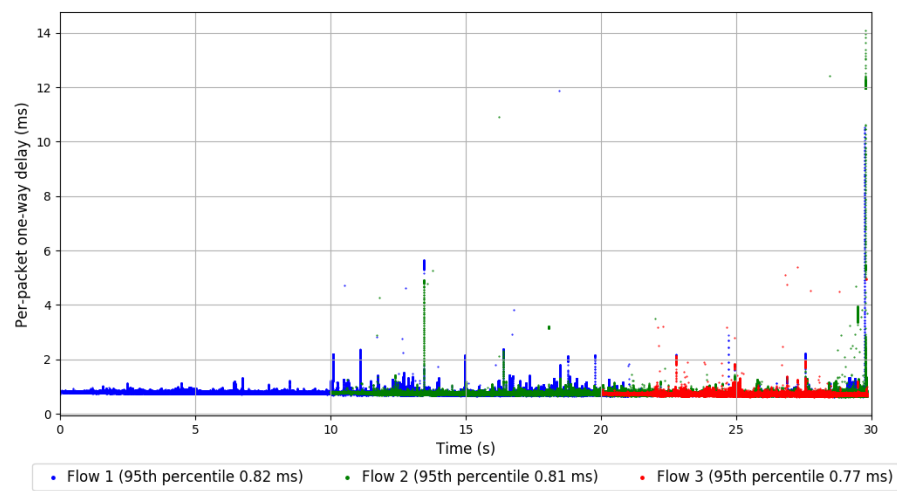
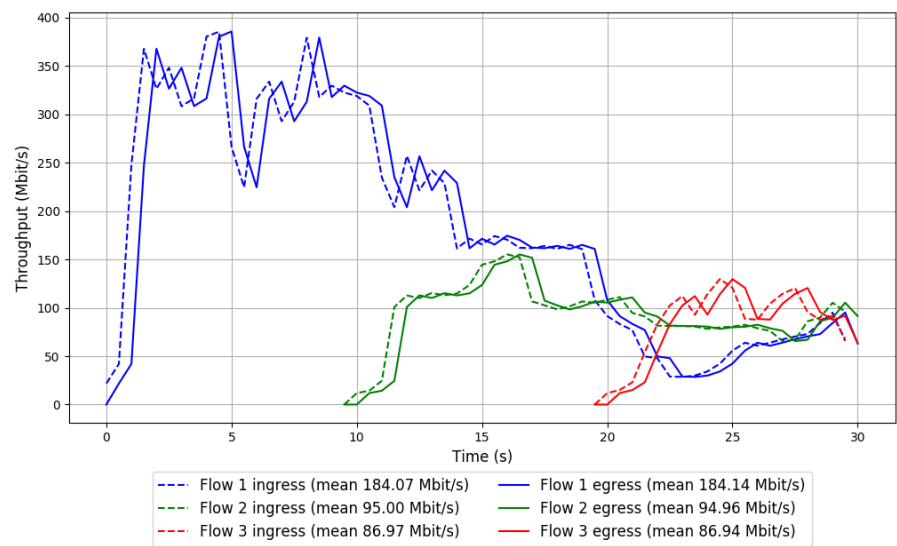


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-18 09:23:06
End at: 2018-07-18 09:23:36
Local clock offset: 2.155 ms
Remote clock offset: 0.342 ms

# Below is generated by plot.py at 2018-07-18 15:25:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 276.01 Mbit/s
95th percentile per-packet one-way delay: 0.820 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 184.14 Mbit/s
95th percentile per-packet one-way delay: 0.825 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 94.96 Mbit/s
95th percentile per-packet one-way delay: 0.809 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 86.94 Mbit/s
95th percentile per-packet one-way delay: 0.773 ms
Loss rate: 0.23%
```


Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-07-18 09:49:59

End at: 2018-07-18 09:50:29

Local clock offset: 3.508 ms

Remote clock offset: 1.033 ms

Below is generated by plot.py at 2018-07-18 15:25:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 276.49 Mbit/s

95th percentile per-packet one-way delay: 0.941 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 198.78 Mbit/s

95th percentile per-packet one-way delay: 0.930 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 100.53 Mbit/s

95th percentile per-packet one-way delay: 0.964 ms

Loss rate: 0.04%

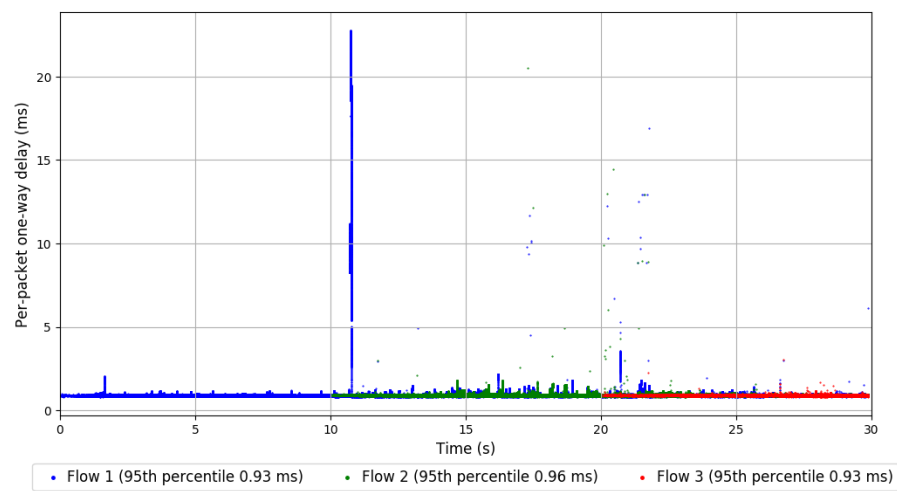
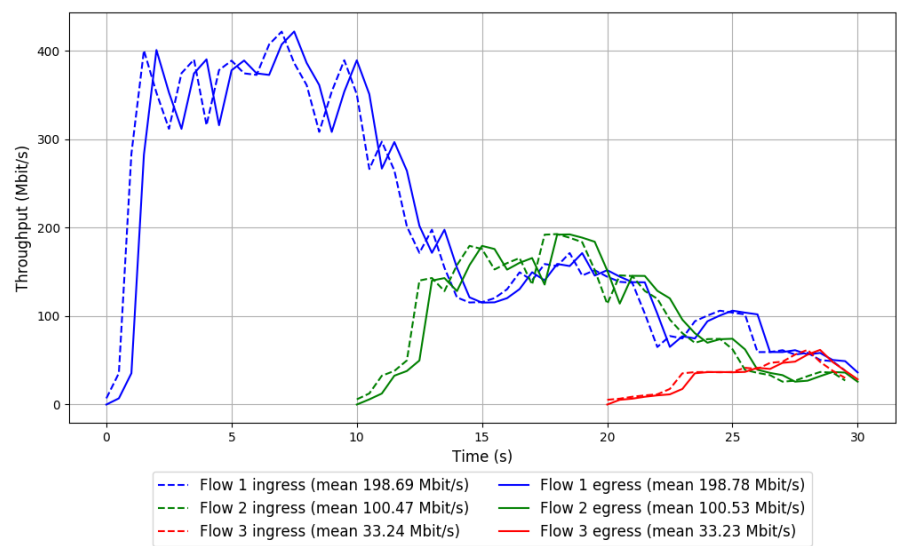
-- Flow 3:

Average throughput: 33.23 Mbit/s

95th percentile per-packet one-way delay: 0.933 ms

Loss rate: 0.24%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-07-18 10:16:58

End at: 2018-07-18 10:17:28

Local clock offset: 3.415 ms

Remote clock offset: 1.512 ms

Below is generated by plot.py at 2018-07-18 15:26:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 269.33 Mbit/s

95th percentile per-packet one-way delay: 1.064 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 202.39 Mbit/s

95th percentile per-packet one-way delay: 1.051 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 80.31 Mbit/s

95th percentile per-packet one-way delay: 1.102 ms

Loss rate: 0.08%

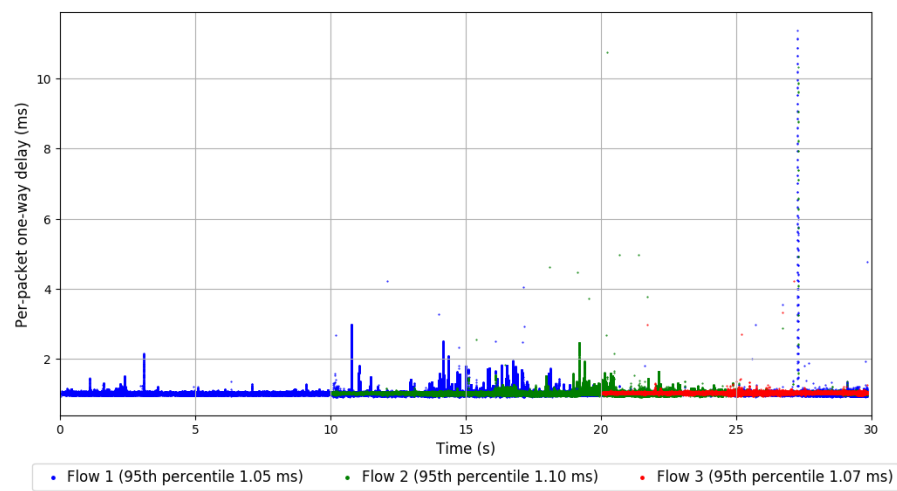
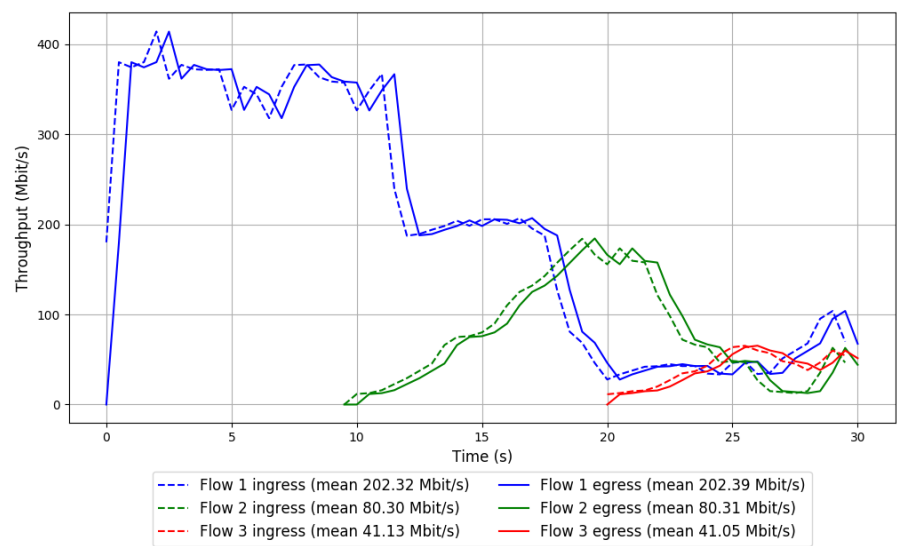
-- Flow 3:

Average throughput: 41.05 Mbit/s

95th percentile per-packet one-way delay: 1.068 ms

Loss rate: 0.39%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-07-18 10:43:46

End at: 2018-07-18 10:44:16

Local clock offset: 1.805 ms

Remote clock offset: 1.887 ms

Below is generated by plot.py at 2018-07-18 15:26:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 263.62 Mbit/s

95th percentile per-packet one-way delay: 1.250 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 162.52 Mbit/s

95th percentile per-packet one-way delay: 1.227 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 114.66 Mbit/s

95th percentile per-packet one-way delay: 1.270 ms

Loss rate: 0.03%

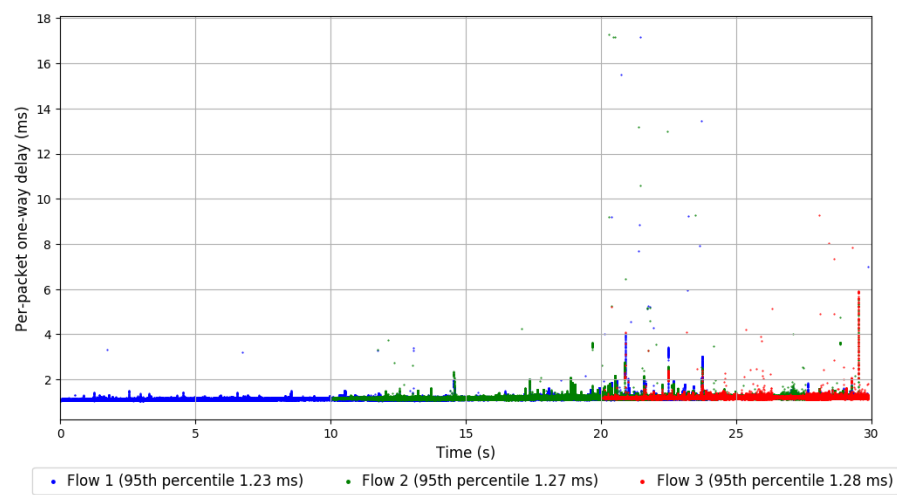
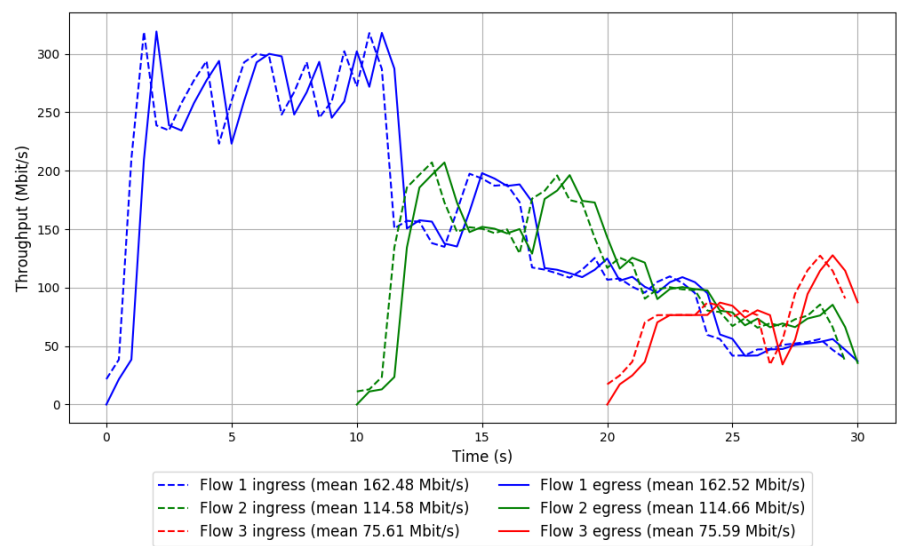
-- Flow 3:

Average throughput: 75.59 Mbit/s

95th percentile per-packet one-way delay: 1.278 ms

Loss rate: 0.24%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-07-18 11:10:42

End at: 2018-07-18 11:11:12

Local clock offset: -0.655 ms

Remote clock offset: 2.186 ms

Below is generated by plot.py at 2018-07-18 15:26:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 259.74 Mbit/s

95th percentile per-packet one-way delay: 0.977 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 189.35 Mbit/s

95th percentile per-packet one-way delay: 0.976 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 72.94 Mbit/s

95th percentile per-packet one-way delay: 0.978 ms

Loss rate: 0.04%

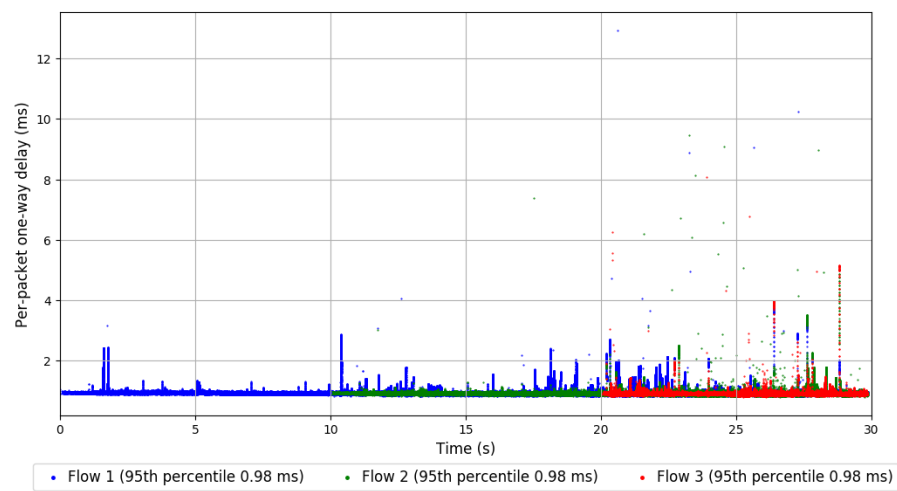
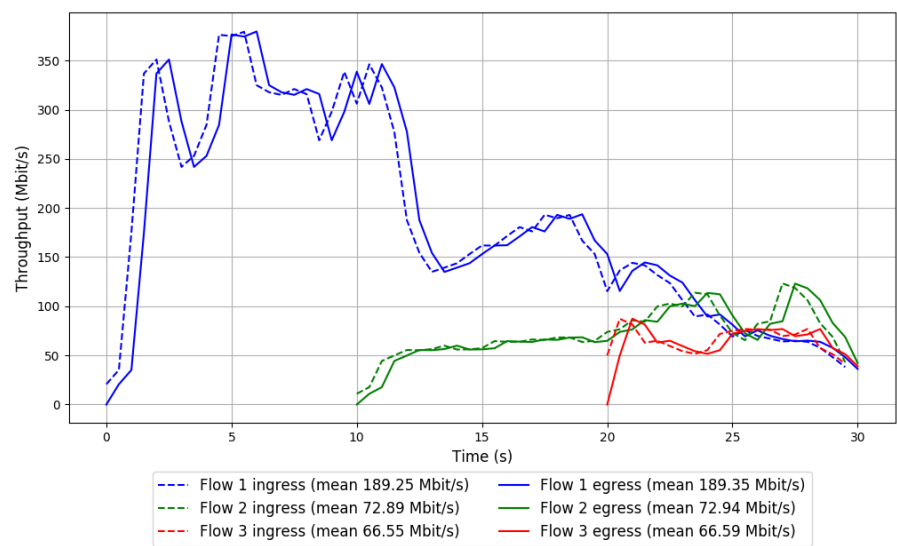
-- Flow 3:

Average throughput: 66.59 Mbit/s

95th percentile per-packet one-way delay: 0.977 ms

Loss rate: 0.20%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-07-18 11:37:35

End at: 2018-07-18 11:38:05

Local clock offset: -0.419 ms

Remote clock offset: 2.228 ms

Below is generated by plot.py at 2018-07-18 15:27:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 276.80 Mbit/s

95th percentile per-packet one-way delay: 1.016 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 186.07 Mbit/s

95th percentile per-packet one-way delay: 1.012 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 113.79 Mbit/s

95th percentile per-packet one-way delay: 1.044 ms

Loss rate: 0.06%

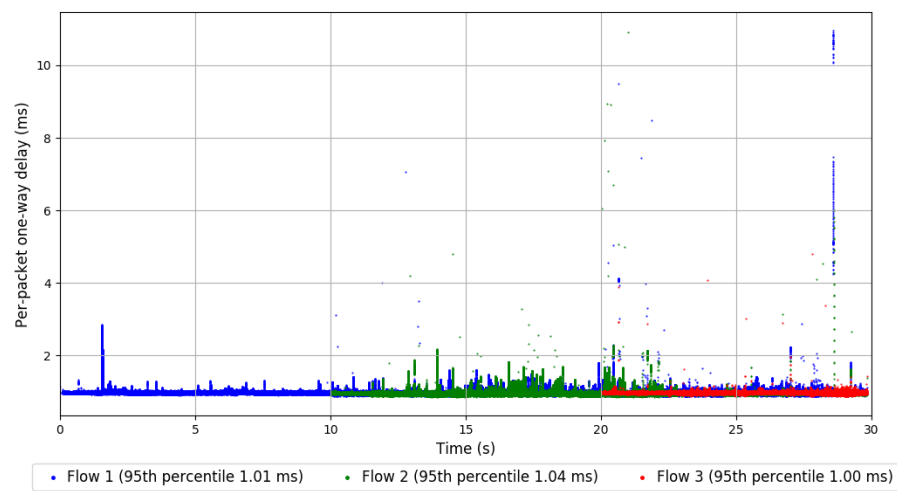
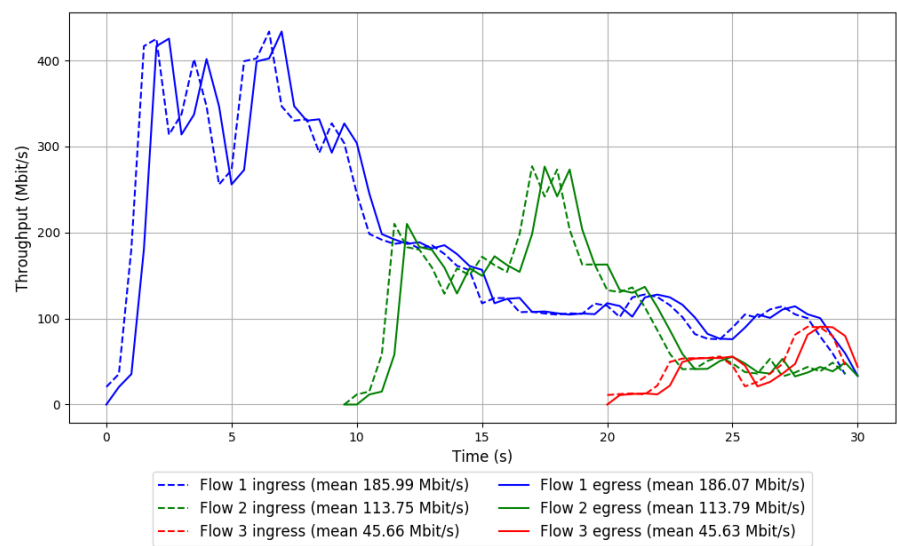
-- Flow 3:

Average throughput: 45.63 Mbit/s

95th percentile per-packet one-way delay: 1.003 ms

Loss rate: 0.26%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-07-18 12:04:35

End at: 2018-07-18 12:05:05

Local clock offset: -0.108 ms

Remote clock offset: 2.052 ms

Below is generated by plot.py at 2018-07-18 15:27:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 230.49 Mbit/s

95th percentile per-packet one-way delay: 1.051 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 179.20 Mbit/s

95th percentile per-packet one-way delay: 1.045 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 50.44 Mbit/s

95th percentile per-packet one-way delay: 1.054 ms

Loss rate: 0.12%

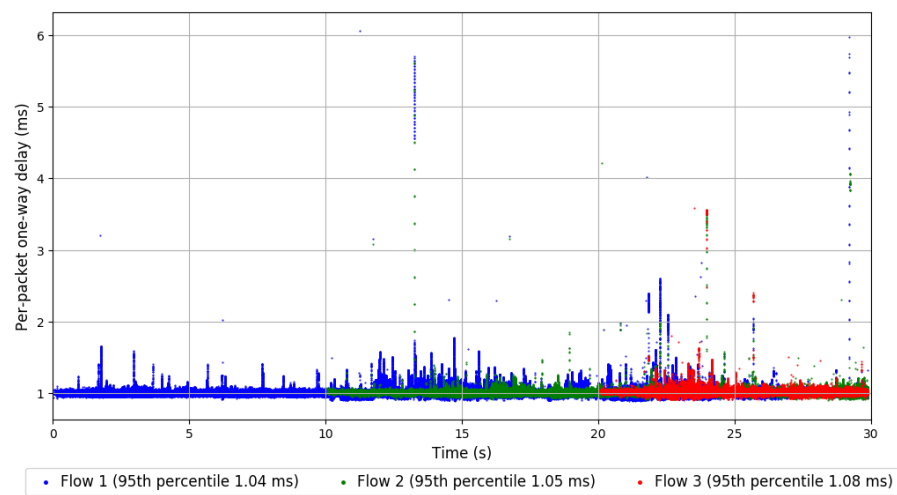
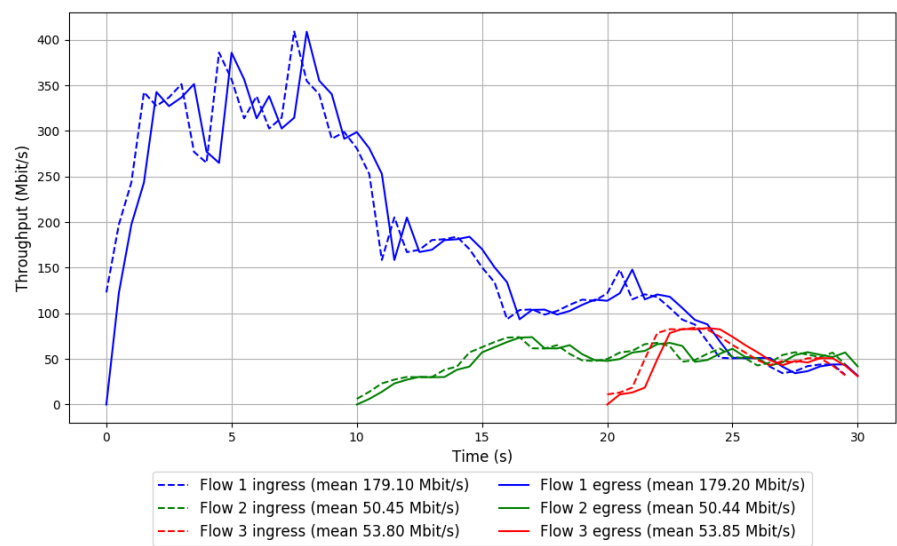
-- Flow 3:

Average throughput: 53.85 Mbit/s

95th percentile per-packet one-way delay: 1.076 ms

Loss rate: 0.12%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-07-18 12:31:27

End at: 2018-07-18 12:31:57

Local clock offset: -3.328 ms

Remote clock offset: 1.401 ms

Below is generated by plot.py at 2018-07-18 15:28:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 272.08 Mbit/s

95th percentile per-packet one-way delay: 1.093 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 190.20 Mbit/s

95th percentile per-packet one-way delay: 1.097 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 97.24 Mbit/s

95th percentile per-packet one-way delay: 1.086 ms

Loss rate: 0.07%

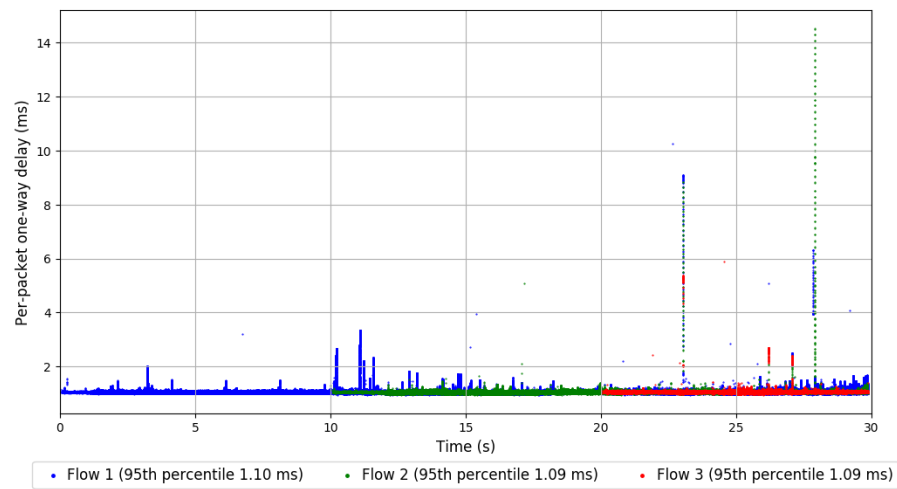
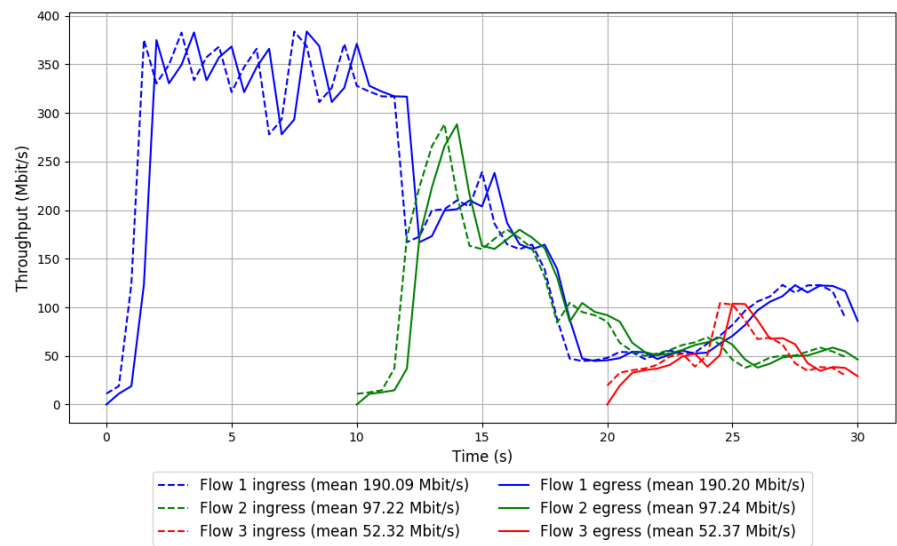
-- Flow 3:

Average throughput: 52.37 Mbit/s

95th percentile per-packet one-way delay: 1.094 ms

Loss rate: 0.11%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-07-18 12:58:25

End at: 2018-07-18 12:58:55

Local clock offset: 0.226 ms

Remote clock offset: 0.793 ms

Below is generated by plot.py at 2018-07-18 15:32:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 349.42 Mbit/s

95th percentile per-packet one-way delay: 1.117 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 240.88 Mbit/s

95th percentile per-packet one-way delay: 1.166 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 141.76 Mbit/s

95th percentile per-packet one-way delay: 1.079 ms

Loss rate: 0.05%

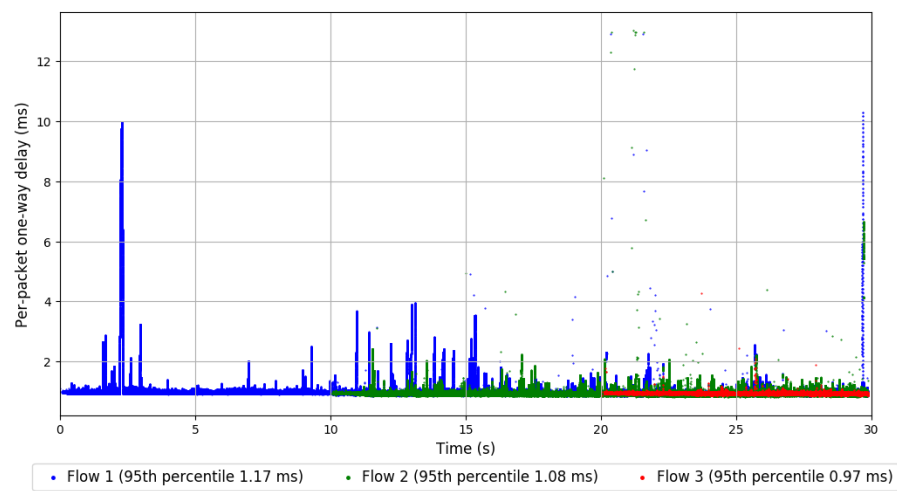
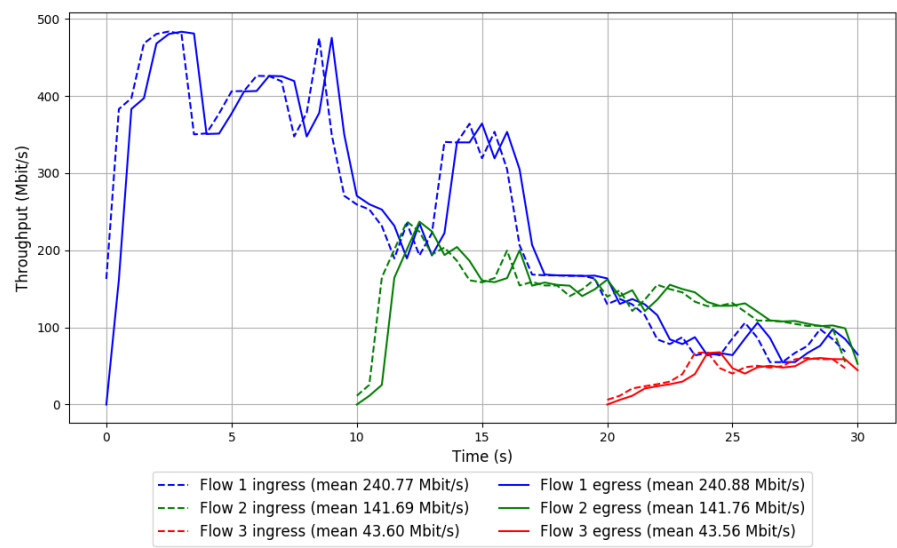
-- Flow 3:

Average throughput: 43.56 Mbit/s

95th percentile per-packet one-way delay: 0.972 ms

Loss rate: 0.33%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-18 13:25:25

End at: 2018-07-18 13:25:55

Local clock offset: 3.574 ms

Remote clock offset: 0.4 ms

Below is generated by plot.py at 2018-07-18 15:32:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 249.82 Mbit/s

95th percentile per-packet one-way delay: 0.953 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 189.44 Mbit/s

95th percentile per-packet one-way delay: 0.954 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 53.45 Mbit/s

95th percentile per-packet one-way delay: 0.941 ms

Loss rate: 0.08%

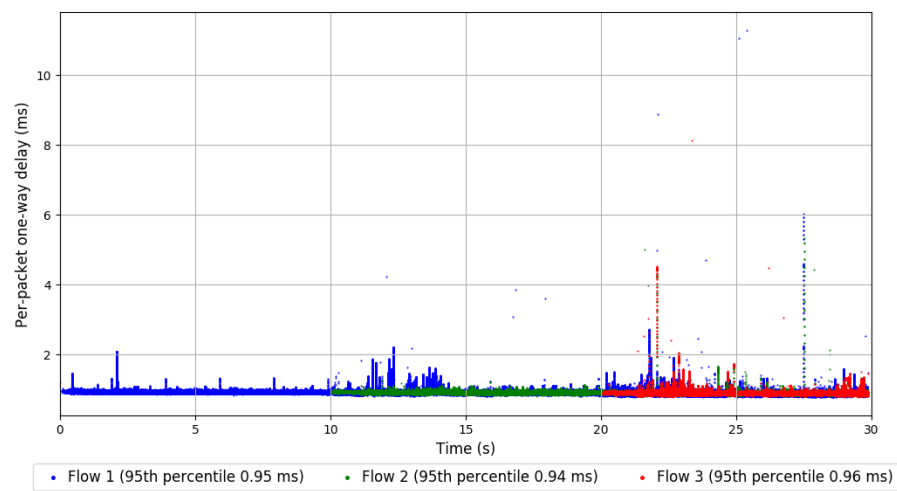
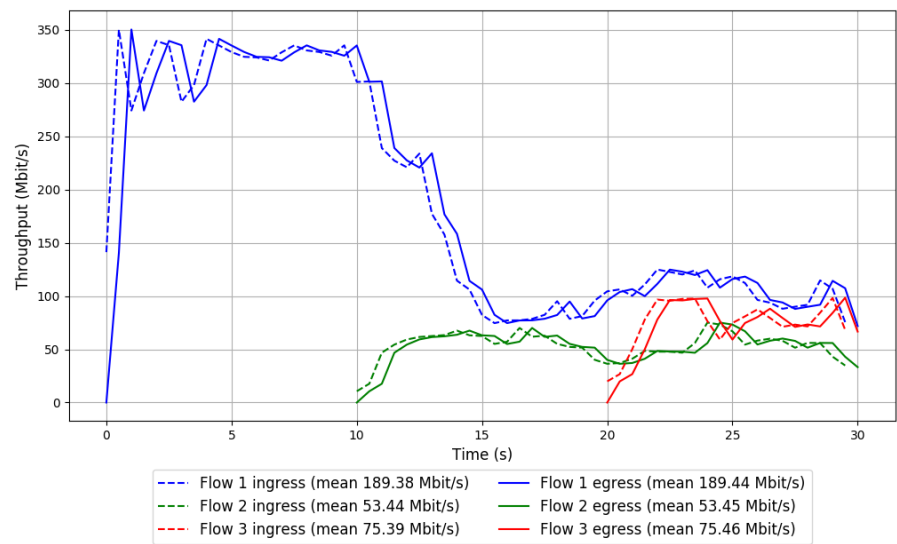
-- Flow 3:

Average throughput: 75.46 Mbit/s

95th percentile per-packet one-way delay: 0.958 ms

Loss rate: 0.11%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-07-18 09:16:45

End at: 2018-07-18 09:17:15

Local clock offset: 0.202 ms

Remote clock offset: 0.08 ms

Below is generated by plot.py at 2018-07-18 15:32:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.20 Mbit/s

95th percentile per-packet one-way delay: 0.752 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 70.62 Mbit/s

95th percentile per-packet one-way delay: 0.763 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 67.95 Mbit/s

95th percentile per-packet one-way delay: 0.711 ms

Loss rate: 0.10%

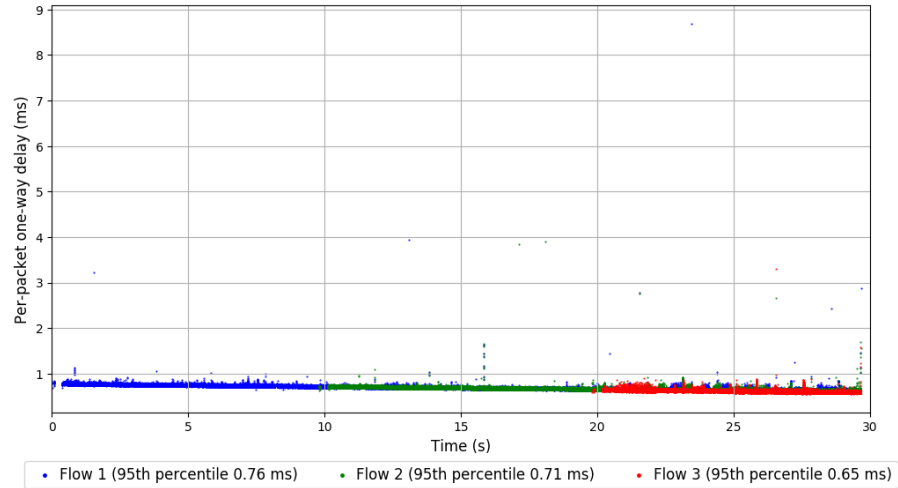
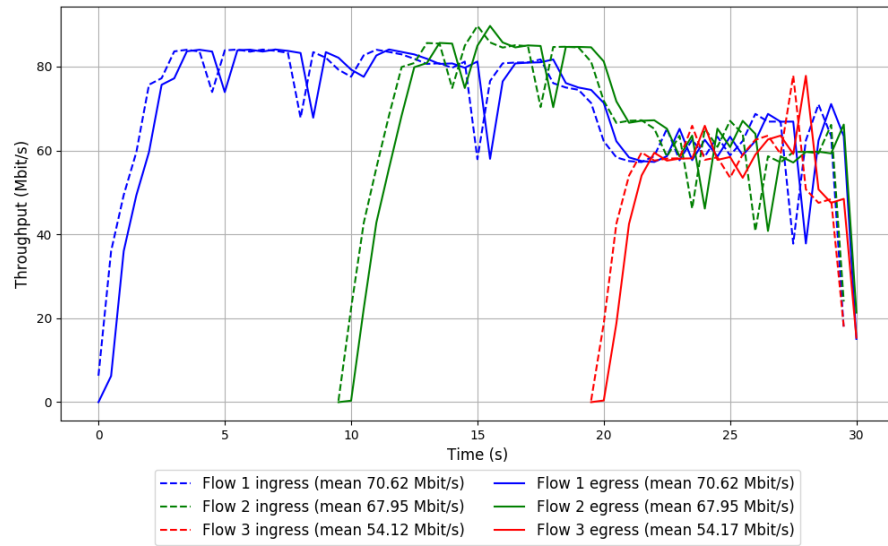
-- Flow 3:

Average throughput: 54.17 Mbit/s

95th percentile per-packet one-way delay: 0.653 ms

Loss rate: 0.24%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-07-18 09:43:42

End at: 2018-07-18 09:44:12

Local clock offset: 3.674 ms

Remote clock offset: 0.849 ms

Below is generated by plot.py at 2018-07-18 15:32:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 133.25 Mbit/s

95th percentile per-packet one-way delay: 1.042 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 71.63 Mbit/s

95th percentile per-packet one-way delay: 1.039 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 68.30 Mbit/s

95th percentile per-packet one-way delay: 1.041 ms

Loss rate: 0.09%

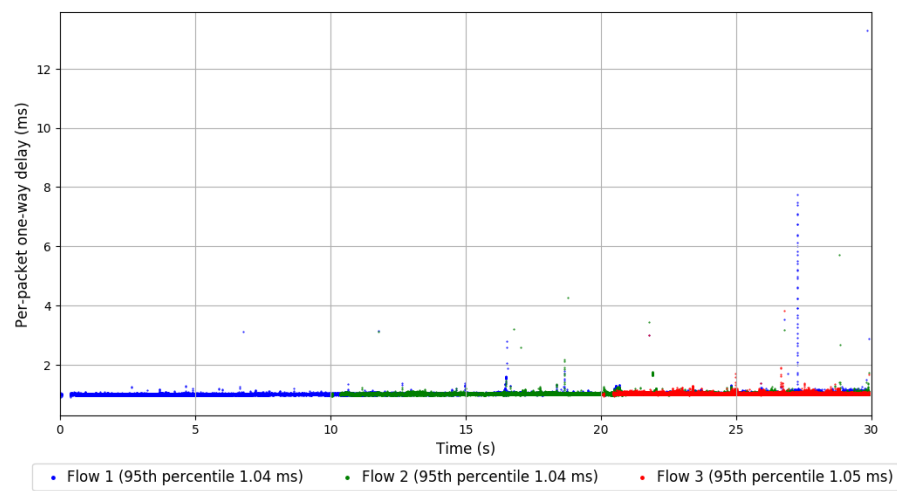
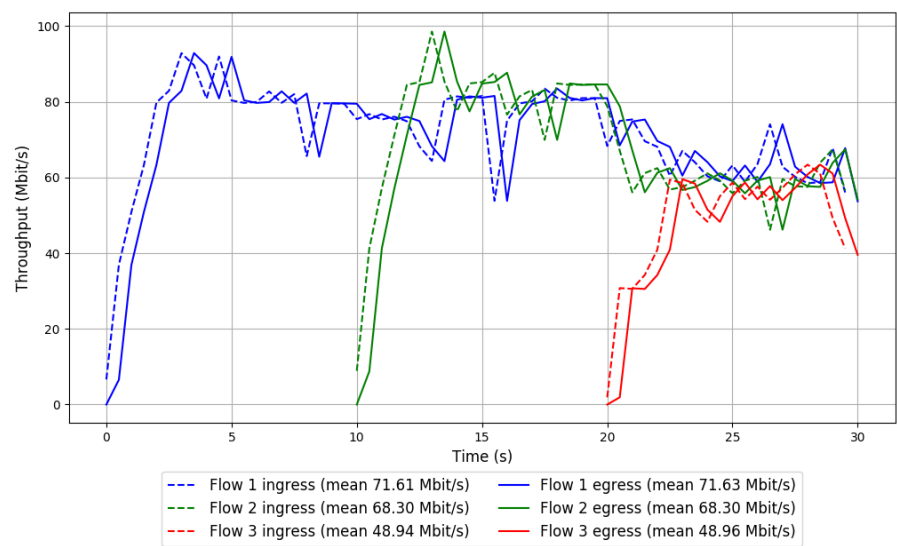
-- Flow 3:

Average throughput: 48.96 Mbit/s

95th percentile per-packet one-way delay: 1.055 ms

Loss rate: 0.19%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-07-18 10:10:38

End at: 2018-07-18 10:11:08

Local clock offset: 3.677 ms

Remote clock offset: 1.453 ms

Below is generated by plot.py at 2018-07-18 15:32:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 137.13 Mbit/s

95th percentile per-packet one-way delay: 1.051 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 76.69 Mbit/s

95th percentile per-packet one-way delay: 1.040 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 64.61 Mbit/s

95th percentile per-packet one-way delay: 1.054 ms

Loss rate: 0.10%

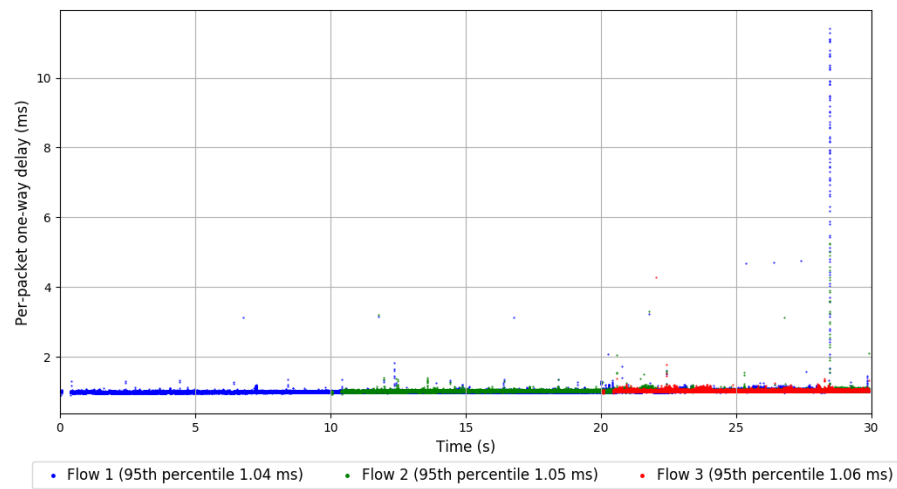
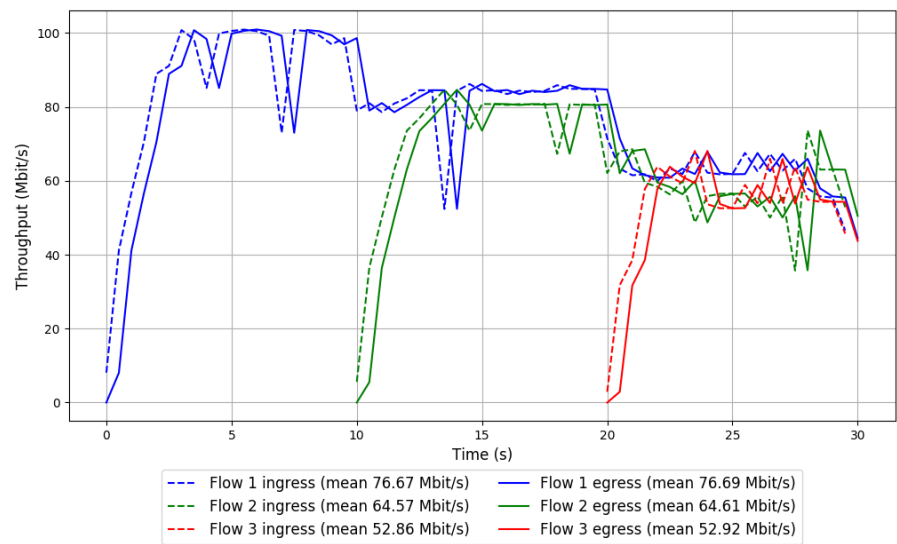
-- Flow 3:

Average throughput: 52.92 Mbit/s

95th percentile per-packet one-way delay: 1.060 ms

Loss rate: 0.20%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-07-18 10:37:27

End at: 2018-07-18 10:37:57

Local clock offset: 3.319 ms

Remote clock offset: 1.727 ms

Below is generated by plot.py at 2018-07-18 15:32:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 135.59 Mbit/s

95th percentile per-packet one-way delay: 1.020 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 72.25 Mbit/s

95th percentile per-packet one-way delay: 1.022 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 66.88 Mbit/s

95th percentile per-packet one-way delay: 1.009 ms

Loss rate: 0.09%

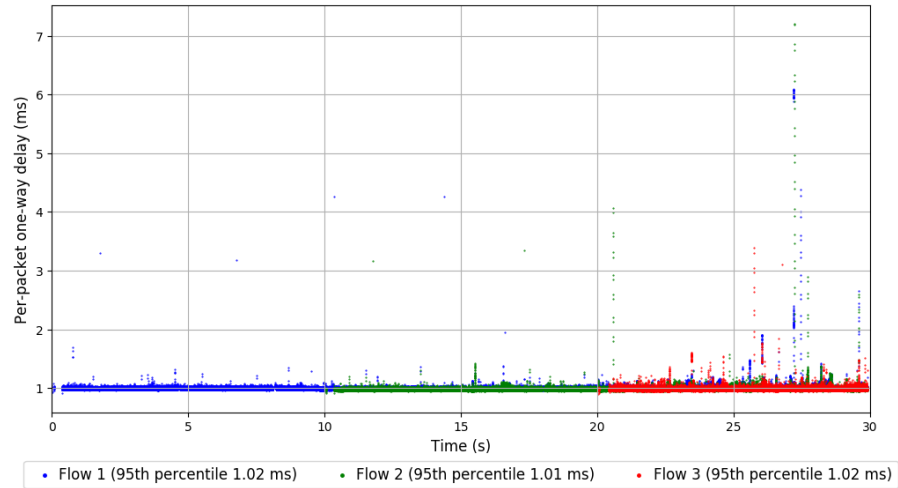
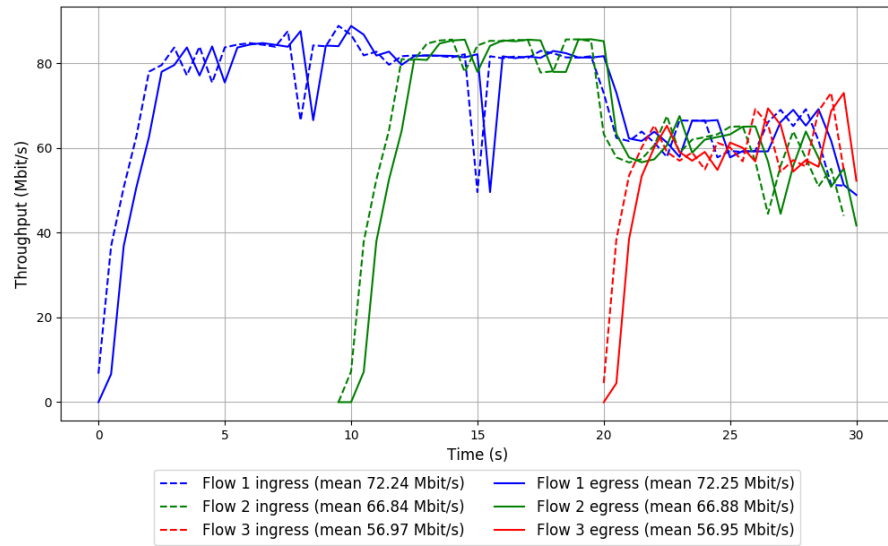
-- Flow 3:

Average throughput: 56.95 Mbit/s

95th percentile per-packet one-way delay: 1.019 ms

Loss rate: 0.23%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-07-18 11:04:22

End at: 2018-07-18 11:04:52

Local clock offset: -0.716 ms

Remote clock offset: 2.021 ms

Below is generated by plot.py at 2018-07-18 15:32:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 138.29 Mbit/s

95th percentile per-packet one-way delay: 1.071 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 75.04 Mbit/s

95th percentile per-packet one-way delay: 1.072 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 66.56 Mbit/s

95th percentile per-packet one-way delay: 1.060 ms

Loss rate: 0.09%

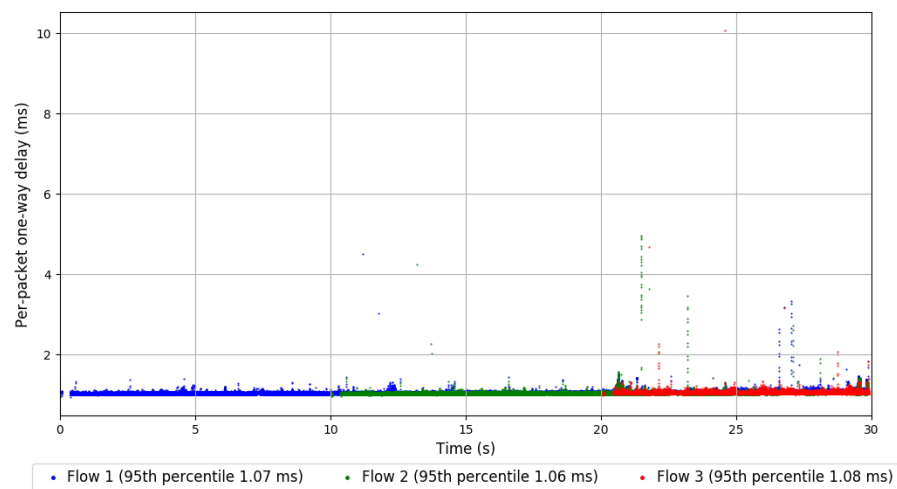
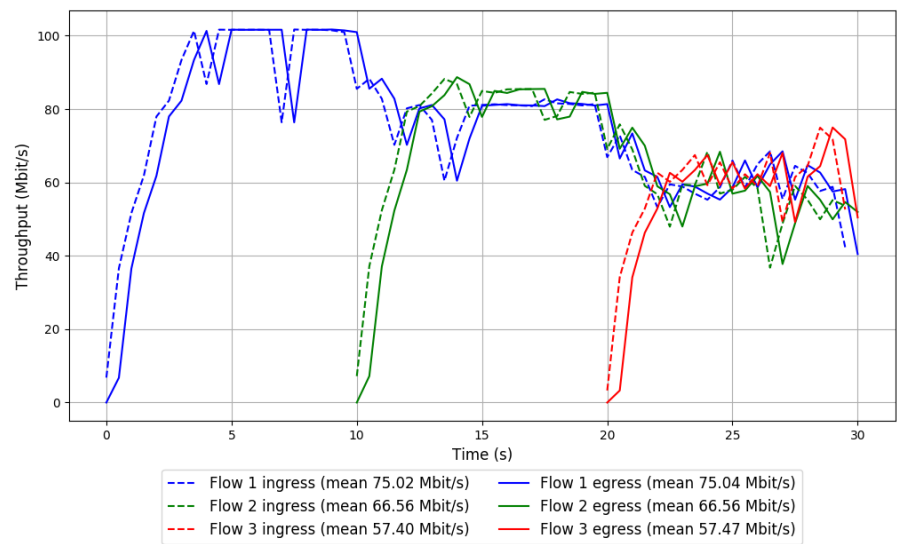
-- Flow 3:

Average throughput: 57.47 Mbit/s

95th percentile per-packet one-way delay: 1.079 ms

Loss rate: 0.20%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-18 11:31:17

End at: 2018-07-18 11:31:47

Local clock offset: -0.241 ms

Remote clock offset: 2.157 ms

Below is generated by plot.py at 2018-07-18 15:32:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 133.82 Mbit/s

95th percentile per-packet one-way delay: 1.141 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 72.44 Mbit/s

95th percentile per-packet one-way delay: 1.129 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 65.16 Mbit/s

95th percentile per-packet one-way delay: 1.149 ms

Loss rate: 0.08%

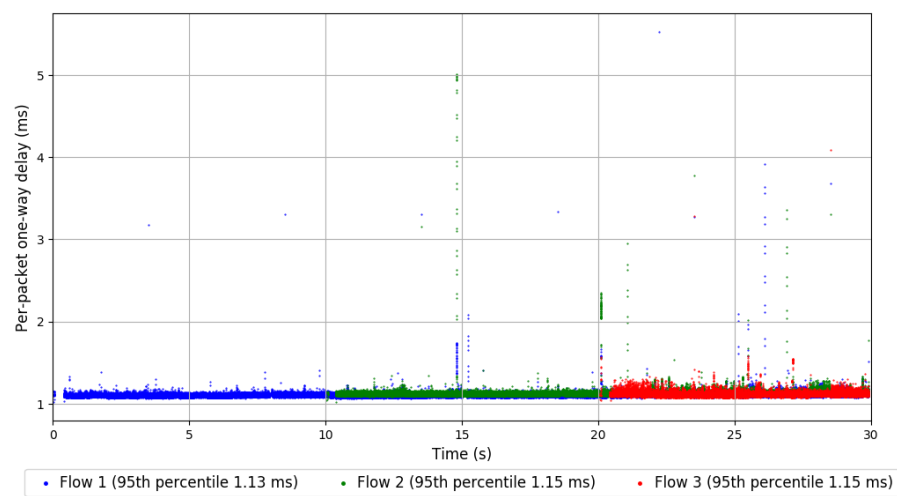
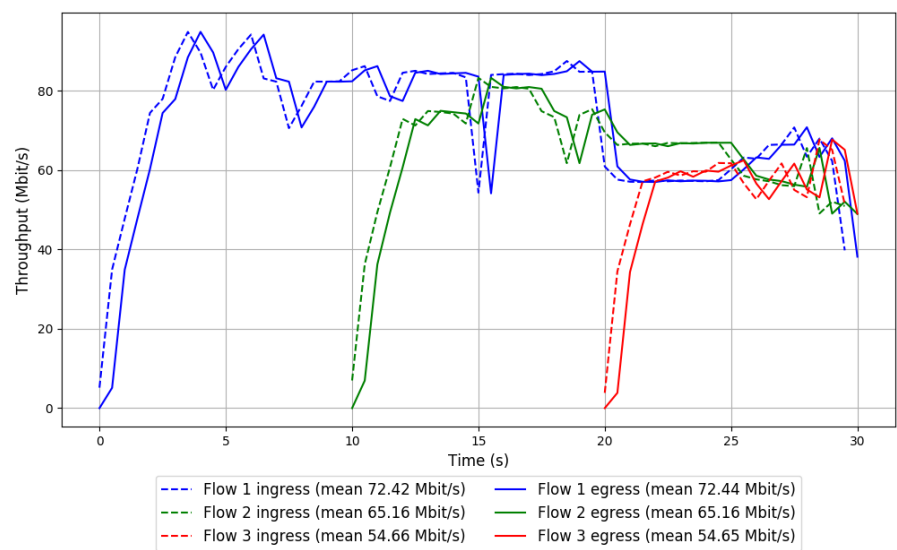
-- Flow 3:

Average throughput: 54.65 Mbit/s

95th percentile per-packet one-way delay: 1.149 ms

Loss rate: 0.23%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-18 11:58:16

End at: 2018-07-18 11:58:46

Local clock offset: -0.132 ms

Remote clock offset: 2.043 ms

Below is generated by plot.py at 2018-07-18 15:32:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 135.52 Mbit/s

95th percentile per-packet one-way delay: 1.045 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 71.96 Mbit/s

95th percentile per-packet one-way delay: 1.045 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 67.36 Mbit/s

95th percentile per-packet one-way delay: 1.045 ms

Loss rate: 0.07%

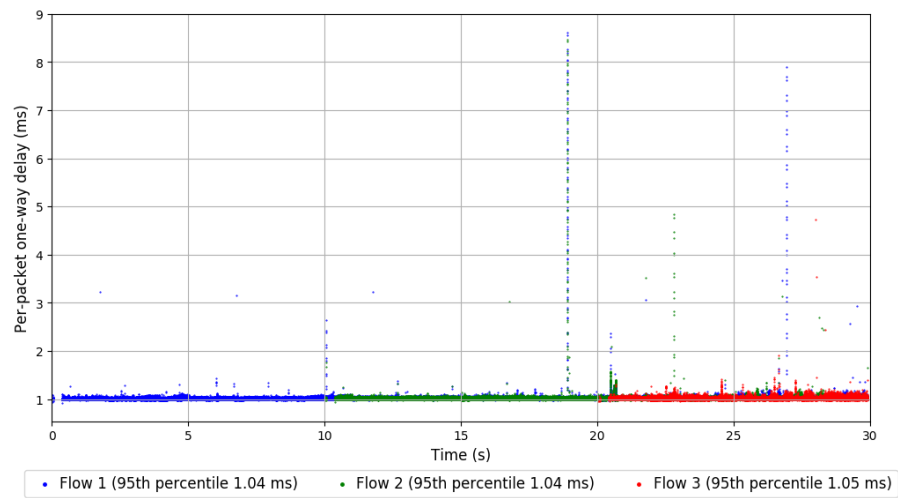
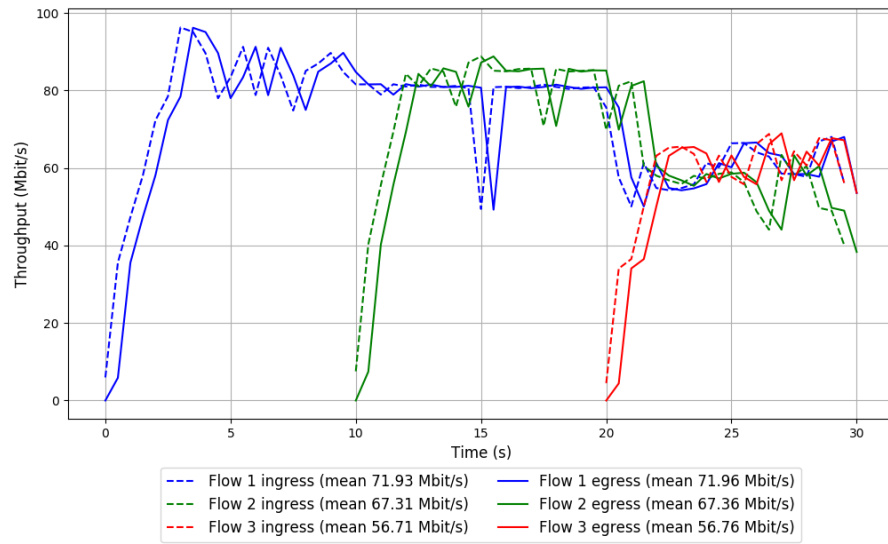
-- Flow 3:

Average throughput: 56.76 Mbit/s

95th percentile per-packet one-way delay: 1.051 ms

Loss rate: 0.24%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-18 12:25:08

End at: 2018-07-18 12:25:38

Local clock offset: -2.868 ms

Remote clock offset: 1.559 ms

Below is generated by plot.py at 2018-07-18 15:32:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.02 Mbit/s

95th percentile per-packet one-way delay: 1.122 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 73.52 Mbit/s

95th percentile per-packet one-way delay: 1.119 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 63.07 Mbit/s

95th percentile per-packet one-way delay: 1.121 ms

Loss rate: 0.08%

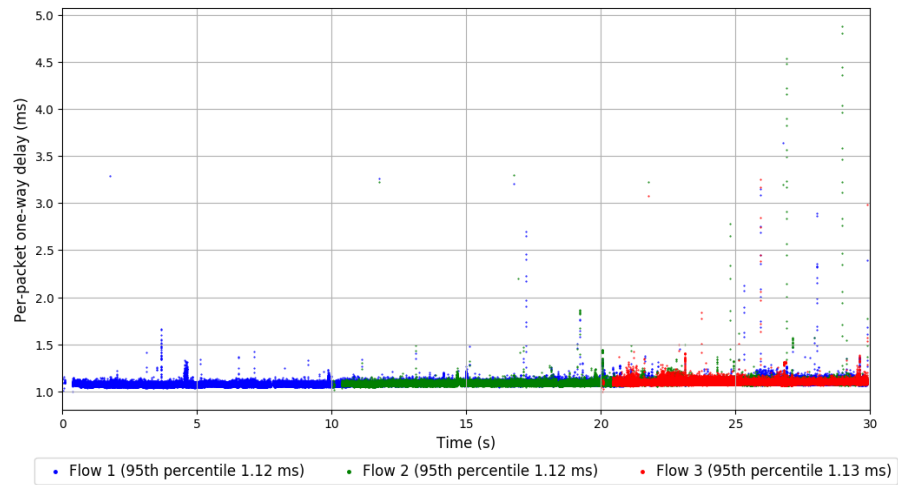
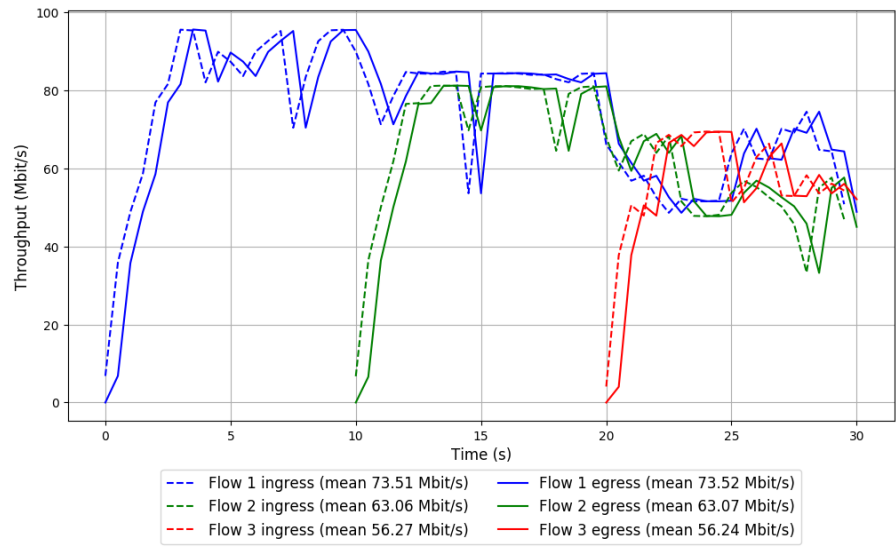
-- Flow 3:

Average throughput: 56.24 Mbit/s

95th percentile per-packet one-way delay: 1.131 ms

Loss rate: 0.21%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-18 12:52:06

End at: 2018-07-18 12:52:36

Local clock offset: -0.428 ms

Remote clock offset: 0.805 ms

Below is generated by plot.py at 2018-07-18 15:32:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 133.97 Mbit/s

95th percentile per-packet one-way delay: 0.921 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 72.79 Mbit/s

95th percentile per-packet one-way delay: 0.925 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 65.44 Mbit/s

95th percentile per-packet one-way delay: 0.913 ms

Loss rate: 0.08%

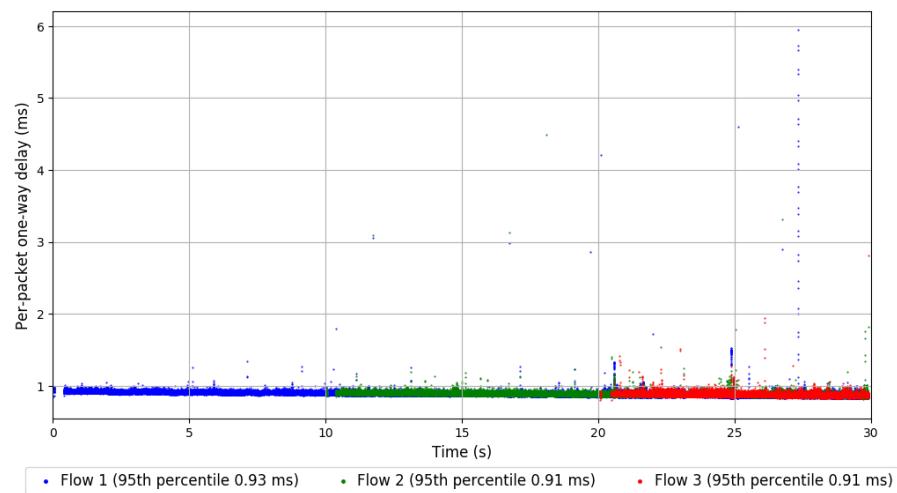
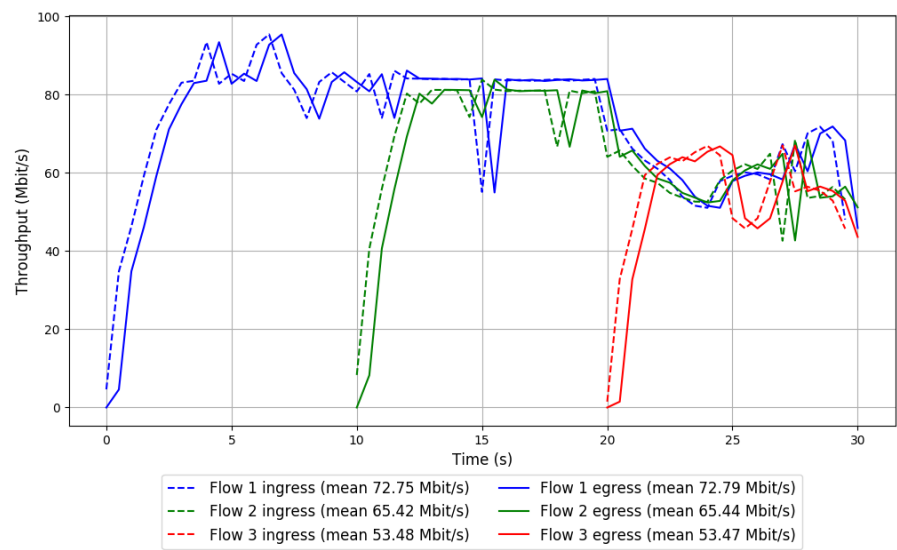
-- Flow 3:

Average throughput: 53.47 Mbit/s

95th percentile per-packet one-way delay: 0.908 ms

Loss rate: 0.21%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-18 13:19:08

End at: 2018-07-18 13:19:38

Local clock offset: 2.848 ms

Remote clock offset: 0.413 ms

Below is generated by plot.py at 2018-07-18 15:32:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.56 Mbit/s

95th percentile per-packet one-way delay: 0.994 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 74.88 Mbit/s

95th percentile per-packet one-way delay: 0.994 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 64.87 Mbit/s

95th percentile per-packet one-way delay: 0.997 ms

Loss rate: 0.10%

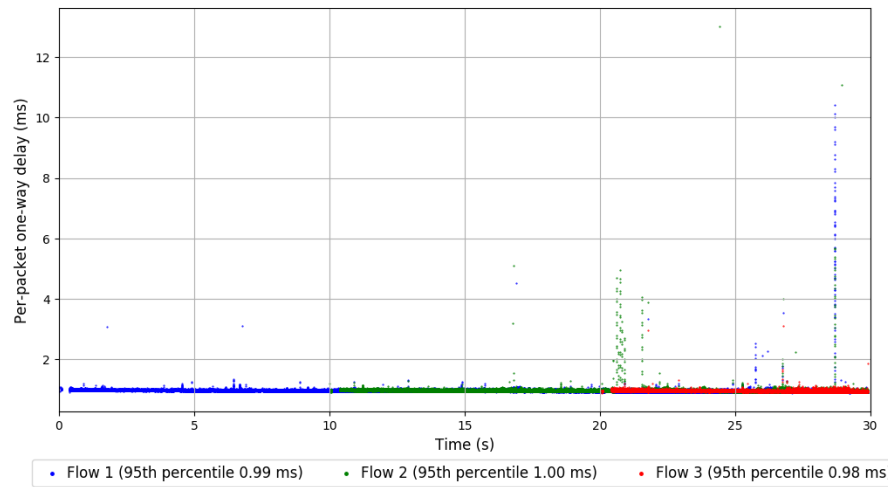
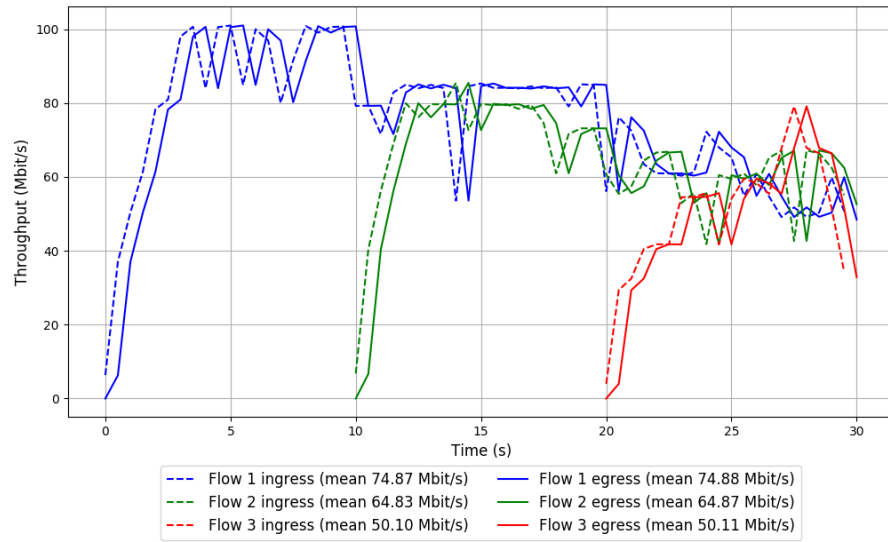
-- Flow 3:

Average throughput: 50.11 Mbit/s

95th percentile per-packet one-way delay: 0.982 ms

Loss rate: 0.16%

Run 10: Report of QUIC Cubic — Data Link

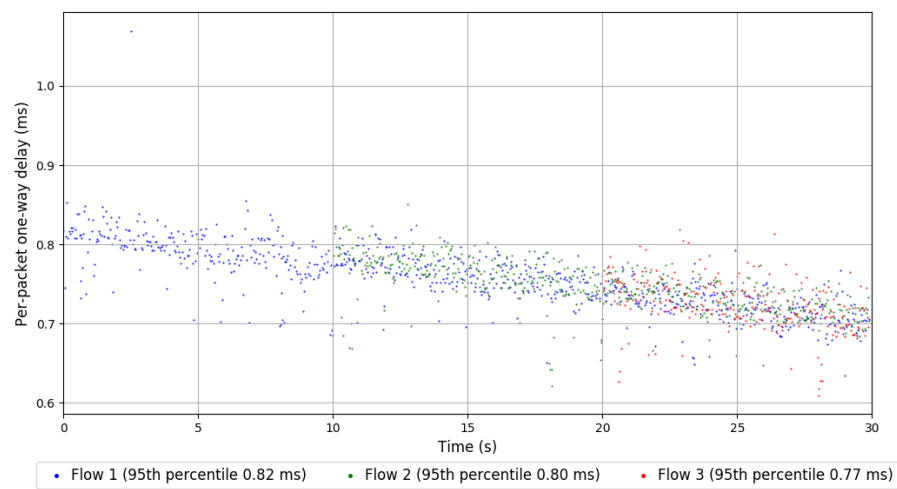
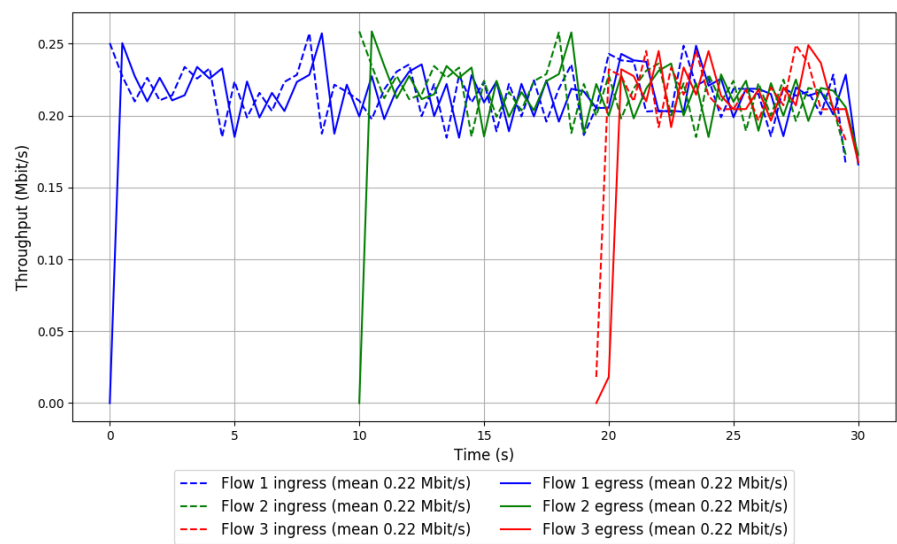


```
Run 1: Statistics of SReAM

Start at: 2018-07-18 09:19:58
End at: 2018-07-18 09:20:28
Local clock offset: 1.263 ms
Remote clock offset: 0.22 ms

# Below is generated by plot.py at 2018-07-18 15:32:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 0.811 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.817 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.797 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.771 ms
Loss rate: 0.36%
```


Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-07-18 09:46:52

End at: 2018-07-18 09:47:22

Local clock offset: 3.647 ms

Remote clock offset: 0.905 ms

Below is generated by plot.py at 2018-07-18 15:32:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.231 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.234 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.226 ms

Loss rate: 0.19%

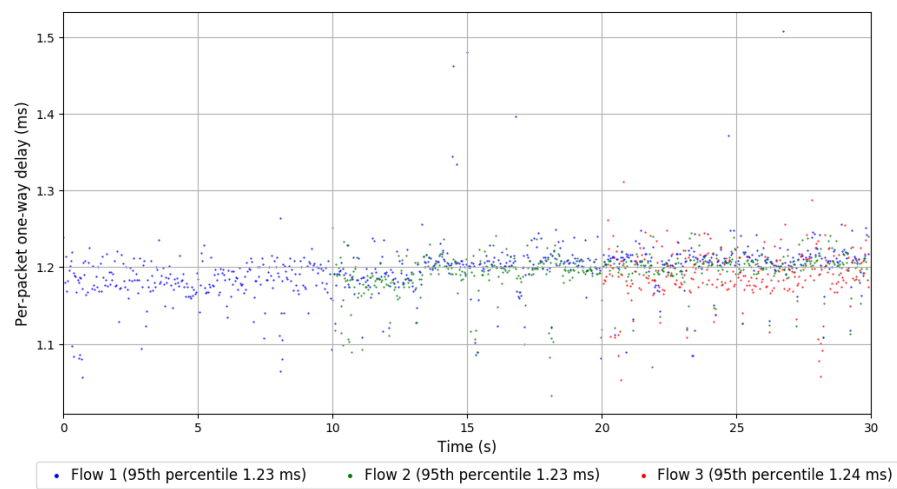
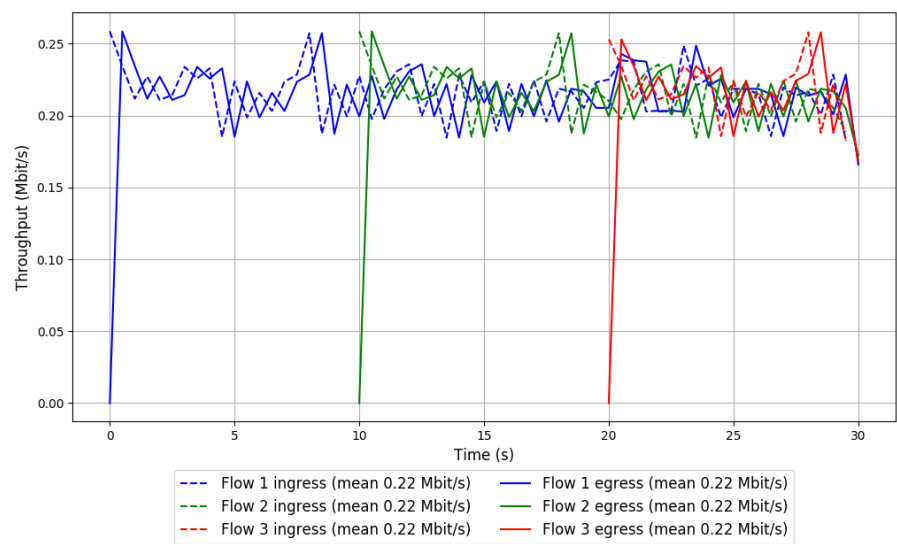
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.238 ms

Loss rate: 0.35%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-07-18 10:13:51

End at: 2018-07-18 10:14:21

Local clock offset: 3.519 ms

Remote clock offset: 1.43 ms

Below is generated by plot.py at 2018-07-18 15:32:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.225 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.223 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.228 ms

Loss rate: 0.19%

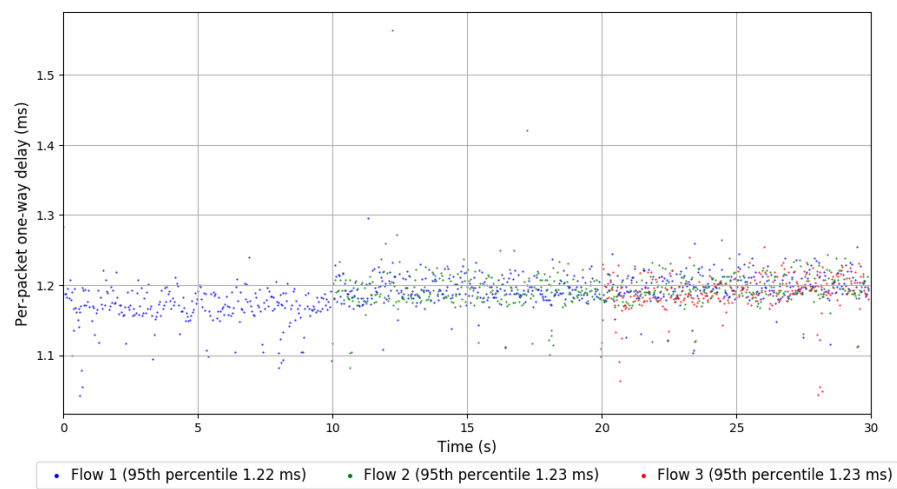
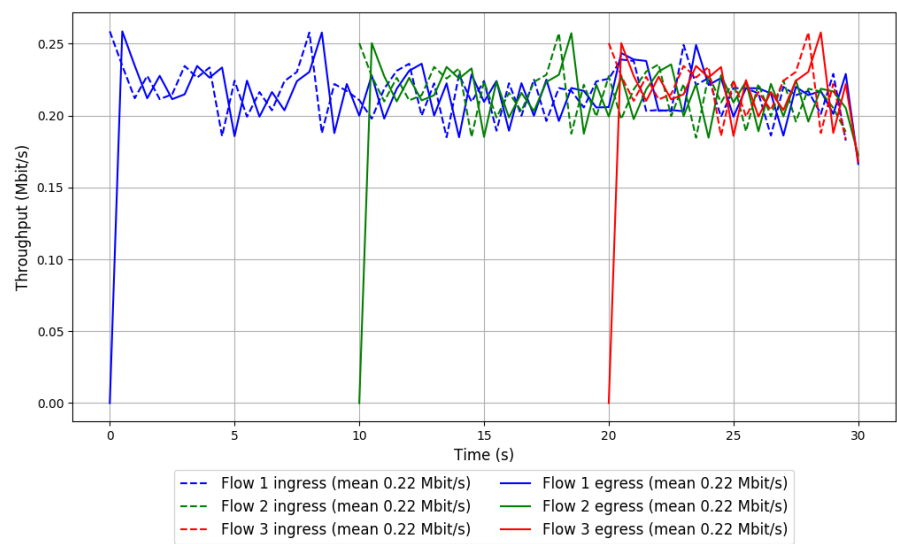
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.225 ms

Loss rate: 0.35%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-07-18 10:40:38

End at: 2018-07-18 10:41:08

Local clock offset: 2.76 ms

Remote clock offset: 1.798 ms

Below is generated by plot.py at 2018-07-18 15:32:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.538 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.515 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.513 ms

Loss rate: 0.19%

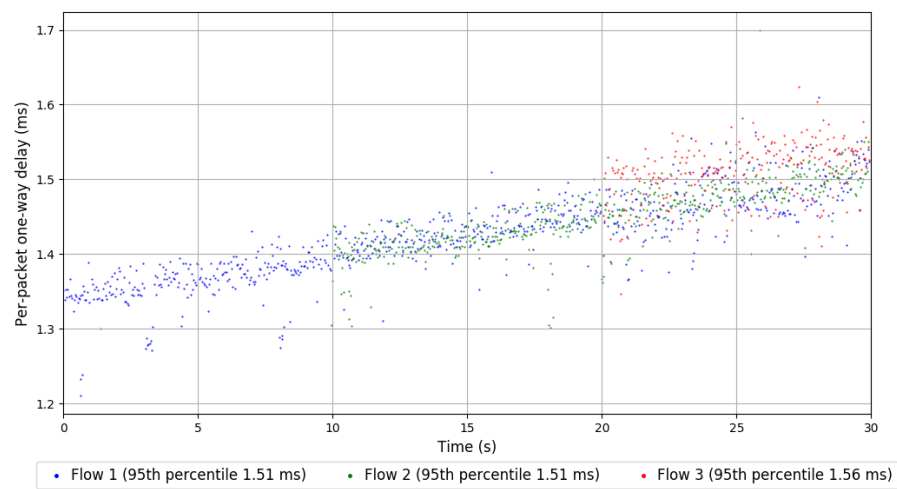
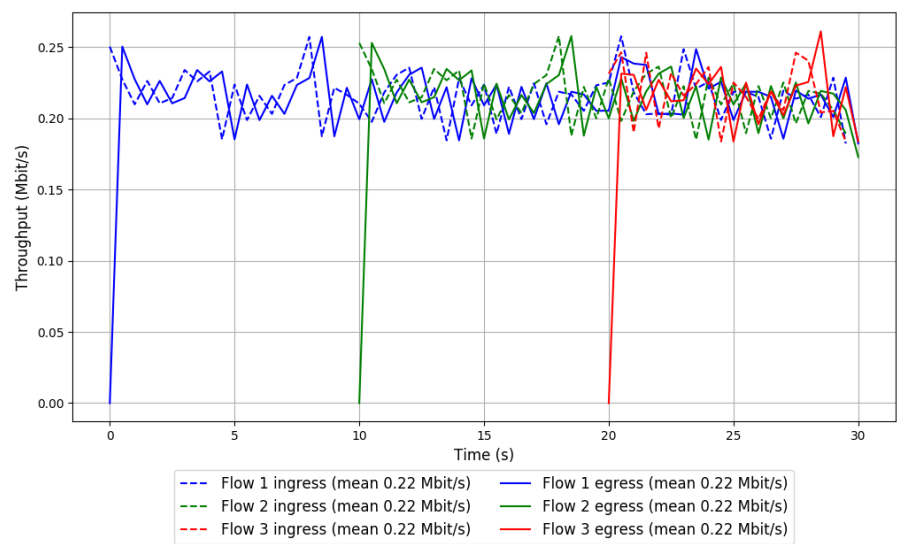
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.558 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-07-18 11:07:34

End at: 2018-07-18 11:08:04

Local clock offset: -0.796 ms

Remote clock offset: 2.152 ms

Below is generated by plot.py at 2018-07-18 15:32:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.156 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.160 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.153 ms

Loss rate: 0.19%

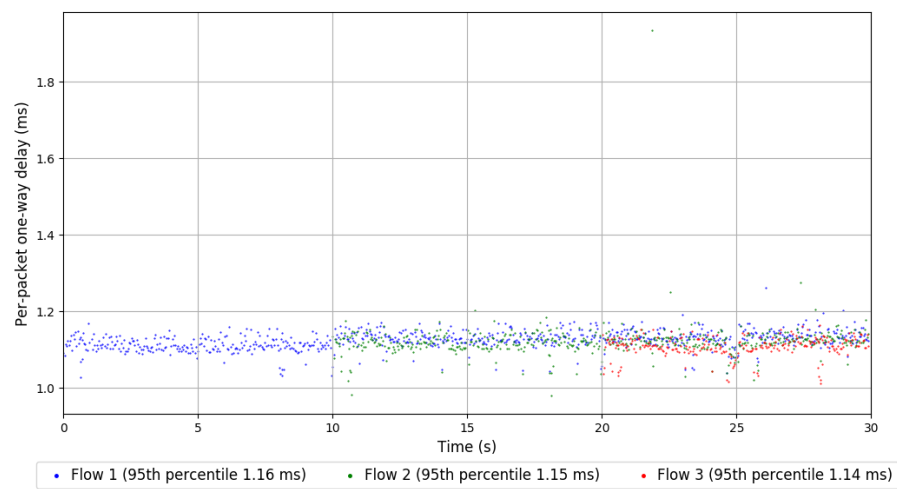
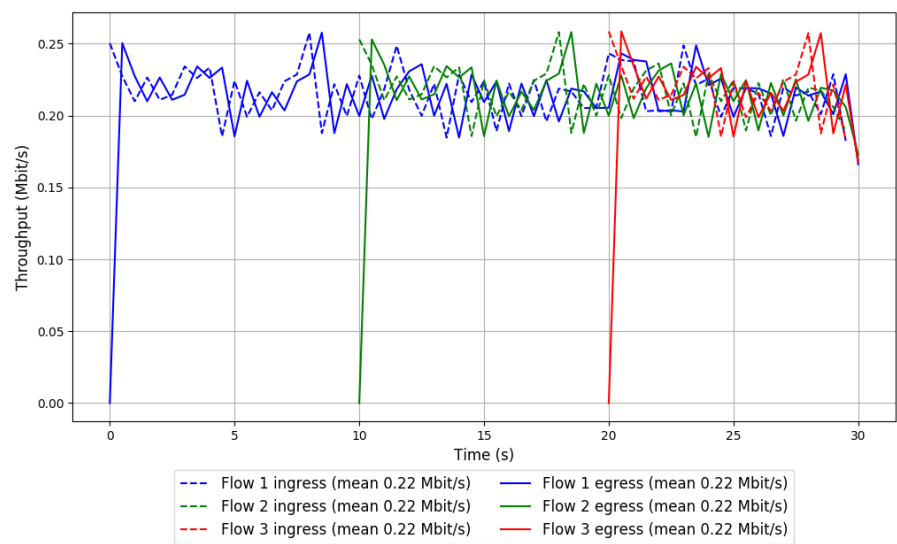
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.142 ms

Loss rate: 0.35%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-07-18 11:34:28

End at: 2018-07-18 11:34:58

Local clock offset: -0.421 ms

Remote clock offset: 2.145 ms

Below is generated by plot.py at 2018-07-18 15:32:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.153 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.159 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.147 ms

Loss rate: 0.00%

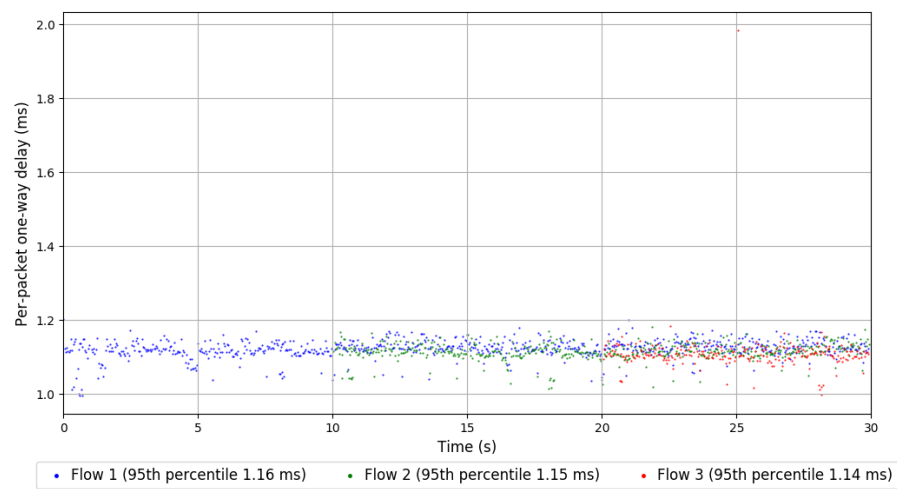
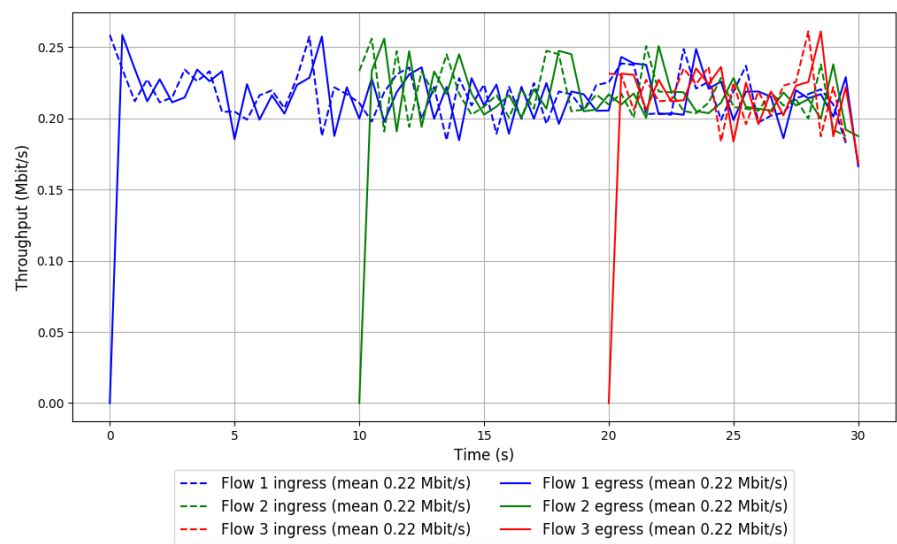
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.138 ms

Loss rate: 0.35%

Run 6: Report of SReAM — Data Link

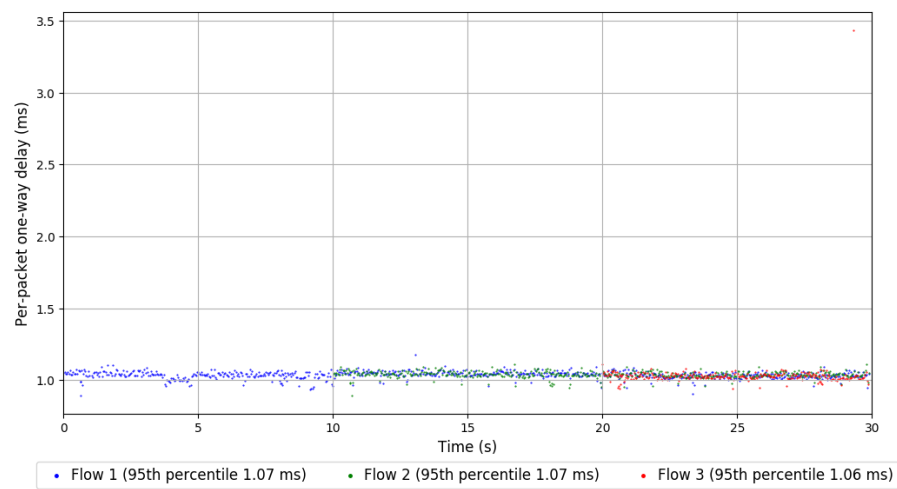
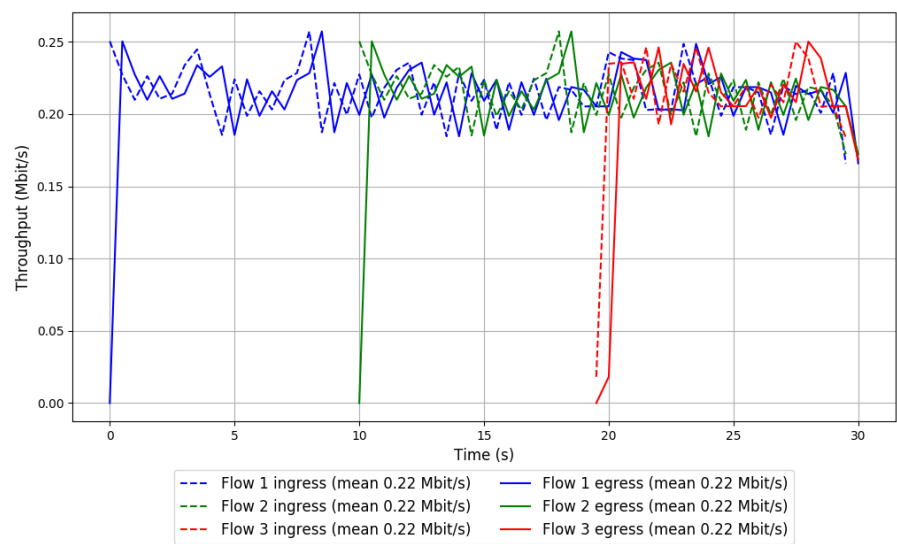


Run 7: Statistics of SReAM

Start at: 2018-07-18 12:01:28
End at: 2018-07-18 12:01:58
Local clock offset: -0.182 ms
Remote clock offset: 2.044 ms

Below is generated by plot.py at 2018-07-18 15:32:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.072 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.072 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.075 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.065 ms
Loss rate: 0.35%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-07-18 12:28:19

End at: 2018-07-18 12:28:49

Local clock offset: -3.119 ms

Remote clock offset: 1.427 ms

Below is generated by plot.py at 2018-07-18 15:32:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.265 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.263 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.262 ms

Loss rate: 0.00%

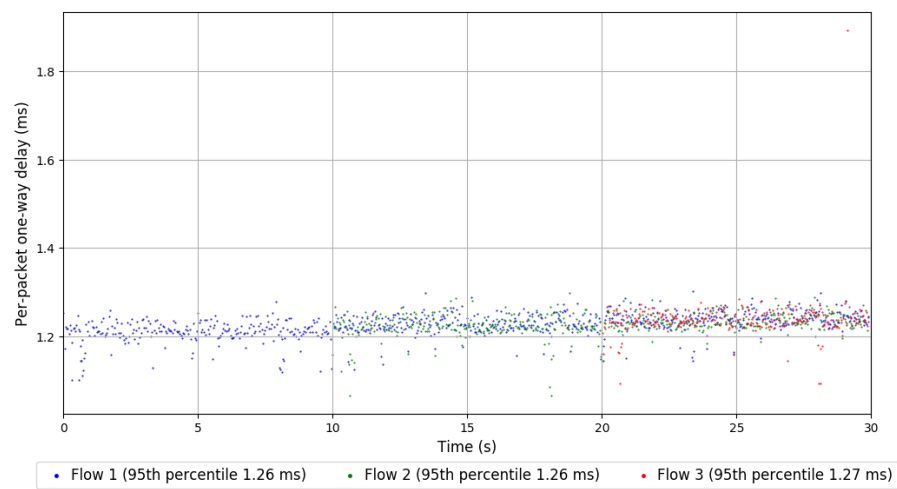
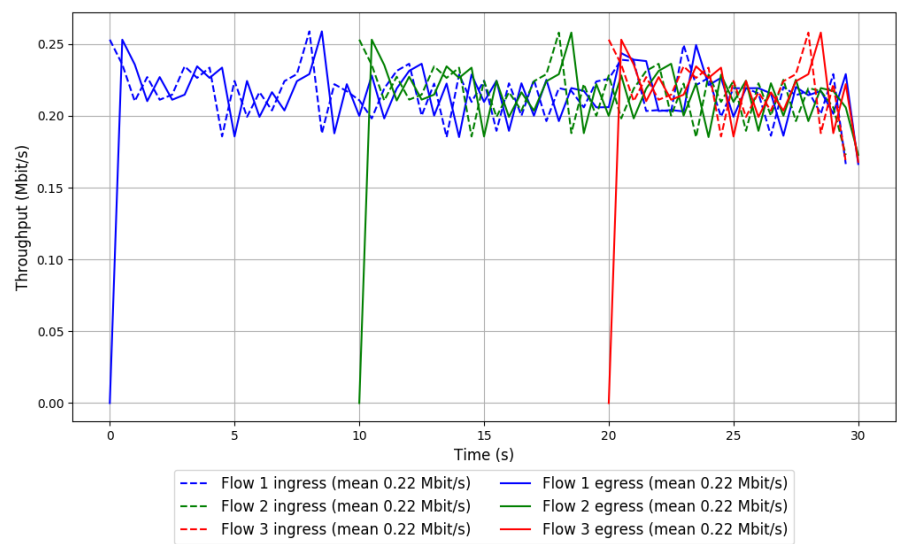
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.269 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-07-18 12:55:17

End at: 2018-07-18 12:55:47

Local clock offset: -0.014 ms

Remote clock offset: 0.747 ms

Below is generated by plot.py at 2018-07-18 15:32:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.168 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.168 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.170 ms

Loss rate: 0.00%

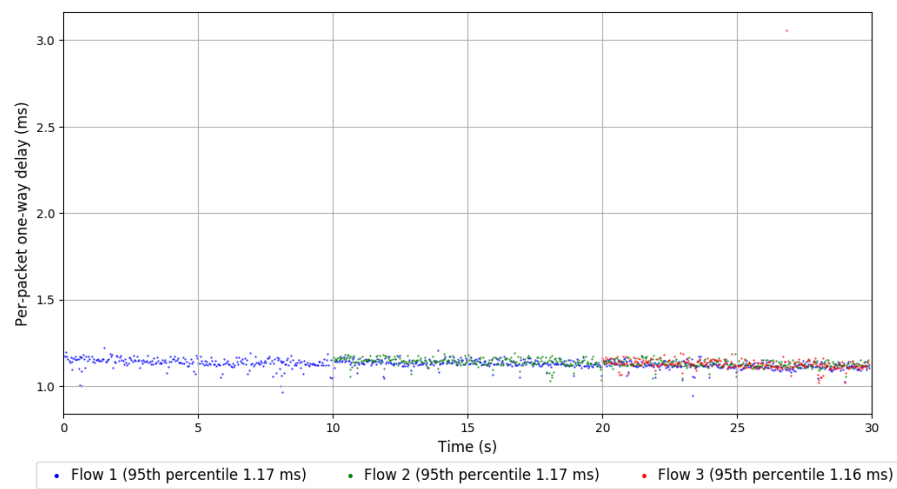
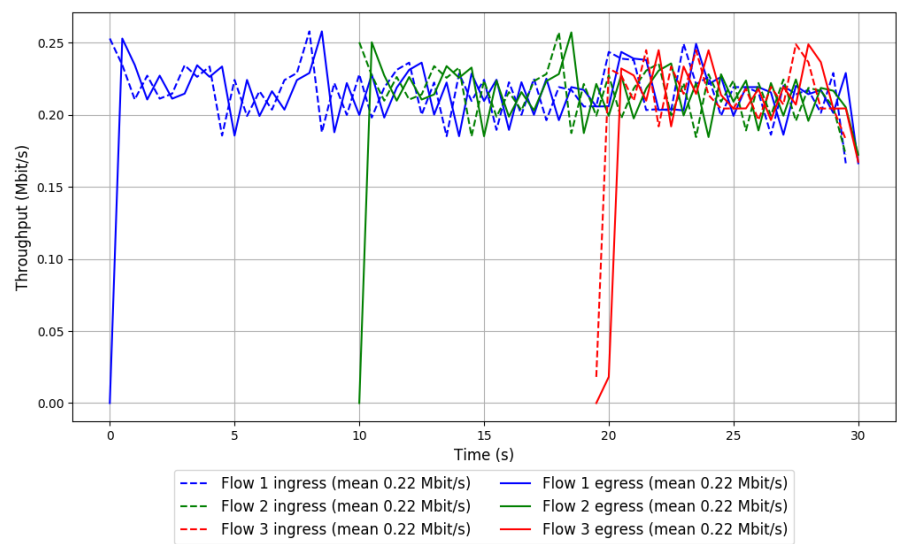
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.162 ms

Loss rate: 0.36%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-07-18 13:22:18

End at: 2018-07-18 13:22:48

Local clock offset: 3.268 ms

Remote clock offset: 0.399 ms

Below is generated by plot.py at 2018-07-18 15:32:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.121 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.127 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.116 ms

Loss rate: 0.19%

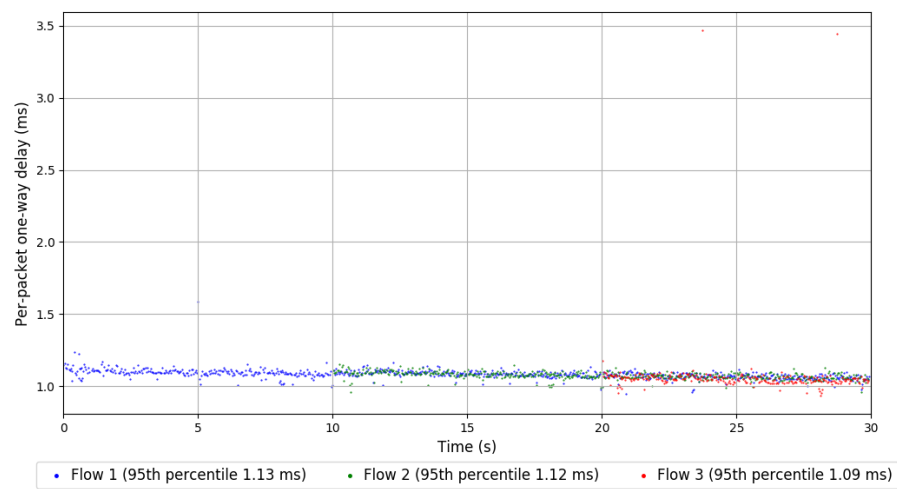
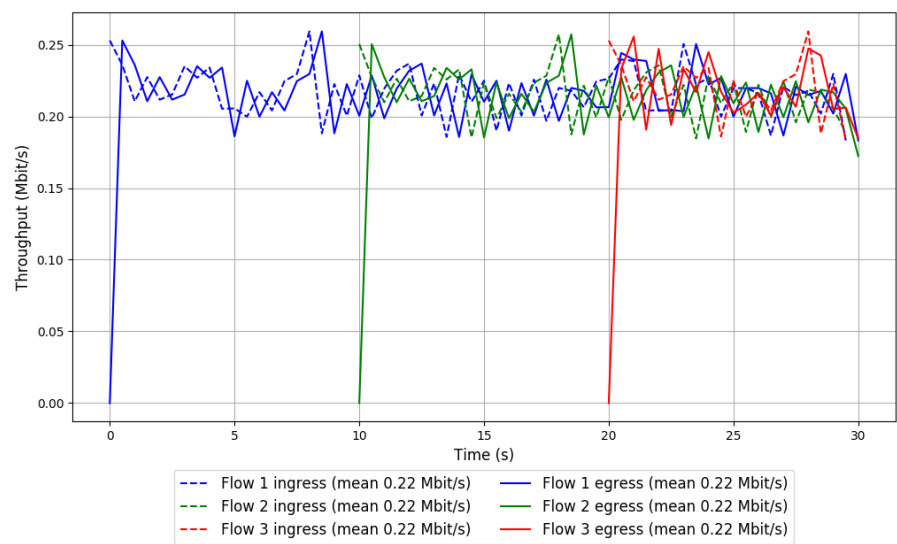
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.089 ms

Loss rate: 0.35%

Run 10: Report of SReAM — Data Link

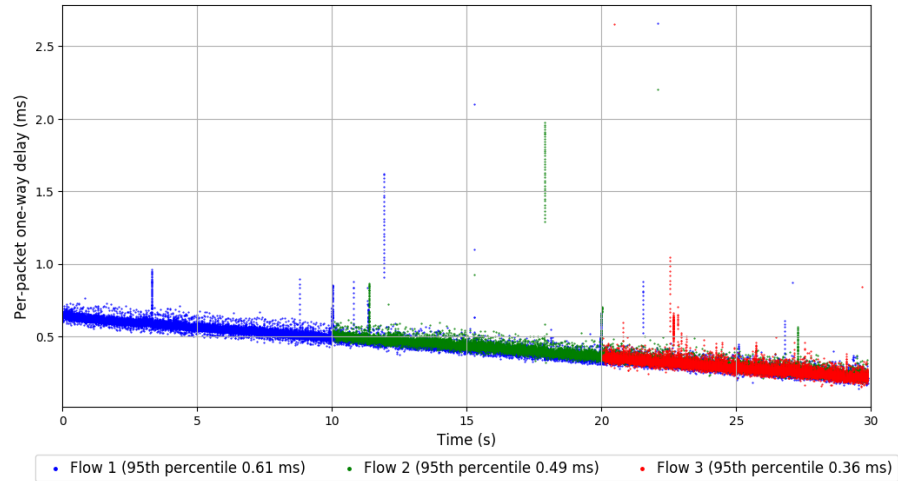
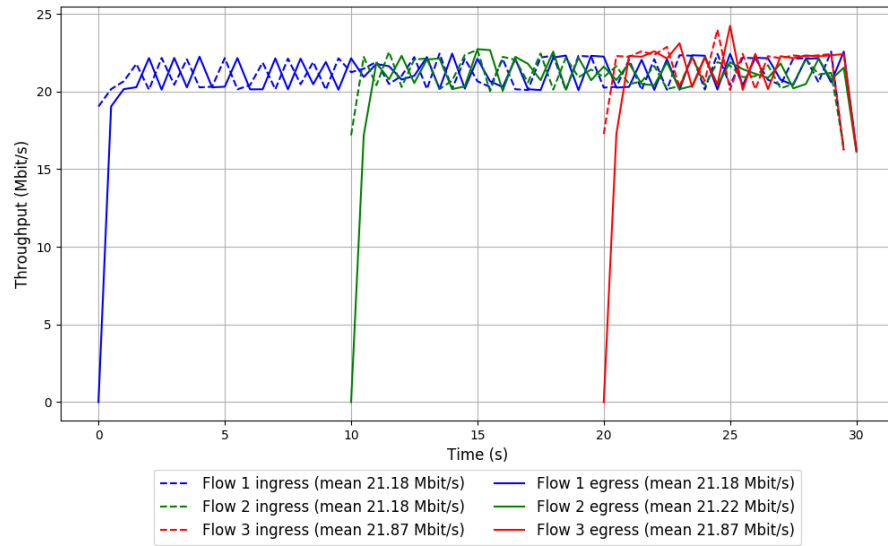


Run 1: Statistics of Sprout

Start at: 2018-07-18 09:08:48
End at: 2018-07-18 09:09:18
Local clock offset: -4.698 ms
Remote clock offset: -0.081 ms

Below is generated by plot.py at 2018-07-18 15:32:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 42.44 Mbit/s
95th percentile per-packet one-way delay: 0.593 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 21.18 Mbit/s
95th percentile per-packet one-way delay: 0.615 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 21.22 Mbit/s
95th percentile per-packet one-way delay: 0.491 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 21.87 Mbit/s
95th percentile per-packet one-way delay: 0.357 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

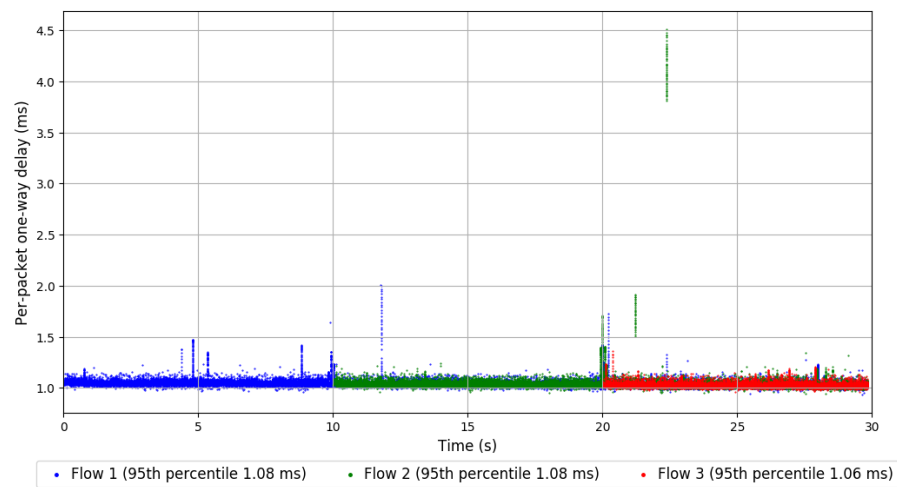
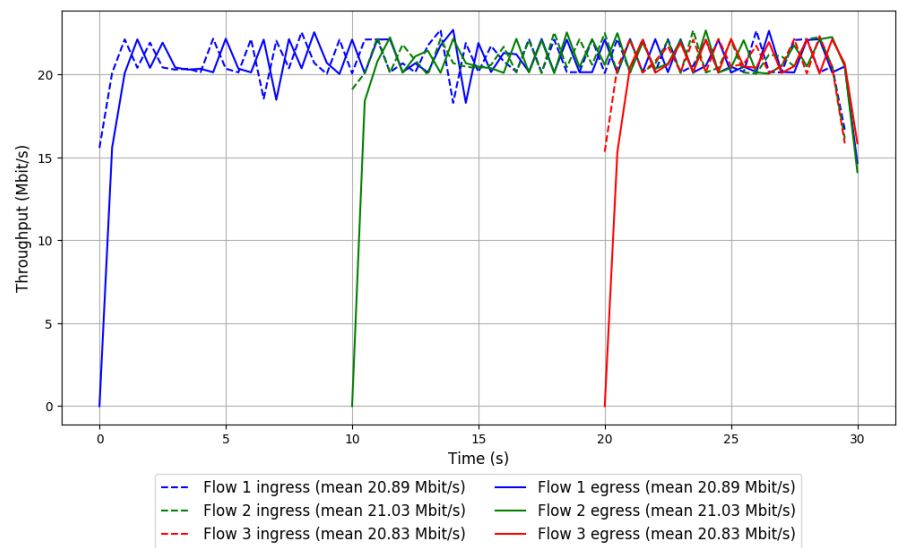


Run 2: Statistics of Sprout

Start at: 2018-07-18 09:35:48
End at: 2018-07-18 09:36:18
Local clock offset: 3.872 ms
Remote clock offset: 0.599 ms

Below is generated by plot.py at 2018-07-18 15:32:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.69 Mbit/s
95th percentile per-packet one-way delay: 1.076 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 20.89 Mbit/s
95th percentile per-packet one-way delay: 1.078 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 21.03 Mbit/s
95th percentile per-packet one-way delay: 1.076 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 20.83 Mbit/s
95th percentile per-packet one-way delay: 1.064 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-07-18 10:02:41

End at: 2018-07-18 10:03:11

Local clock offset: 3.714 ms

Remote clock offset: 1.236 ms

Below is generated by plot.py at 2018-07-18 15:32:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.95 Mbit/s

95th percentile per-packet one-way delay: 1.131 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 21.60 Mbit/s

95th percentile per-packet one-way delay: 1.130 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 21.38 Mbit/s

95th percentile per-packet one-way delay: 1.132 ms

Loss rate: 0.00%

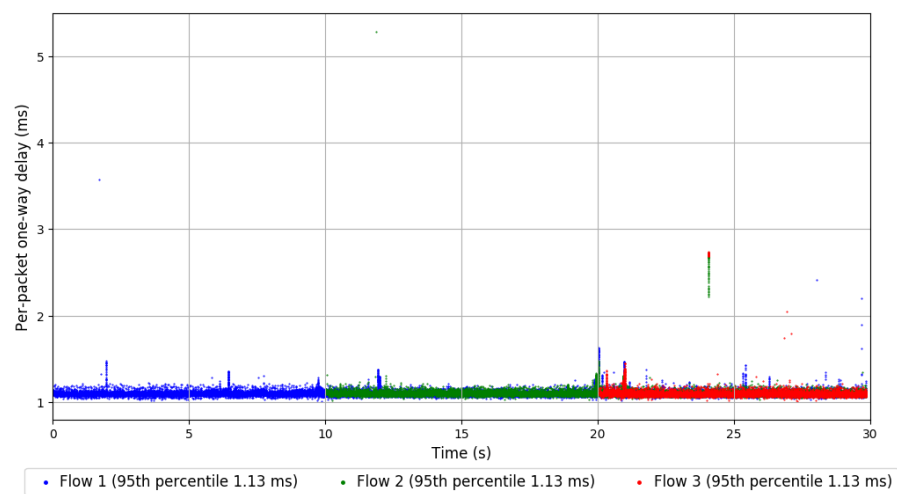
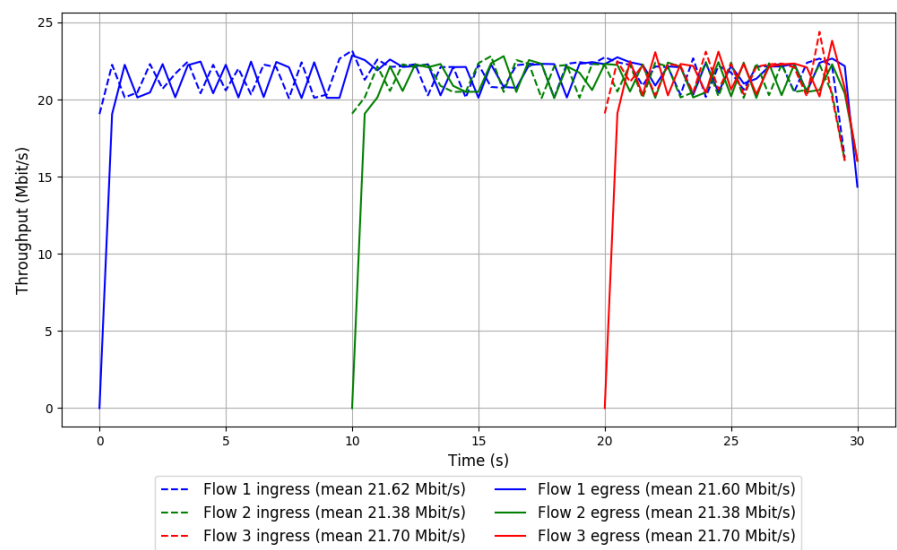
-- Flow 3:

Average throughput: 21.70 Mbit/s

95th percentile per-packet one-way delay: 1.129 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-07-18 10:29:34

End at: 2018-07-18 10:30:04

Local clock offset: 3.326 ms

Remote clock offset: 1.666 ms

Below is generated by plot.py at 2018-07-18 15:32:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.77 Mbit/s

95th percentile per-packet one-way delay: 1.098 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 21.66 Mbit/s

95th percentile per-packet one-way delay: 1.103 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 21.19 Mbit/s

95th percentile per-packet one-way delay: 1.086 ms

Loss rate: 0.00%

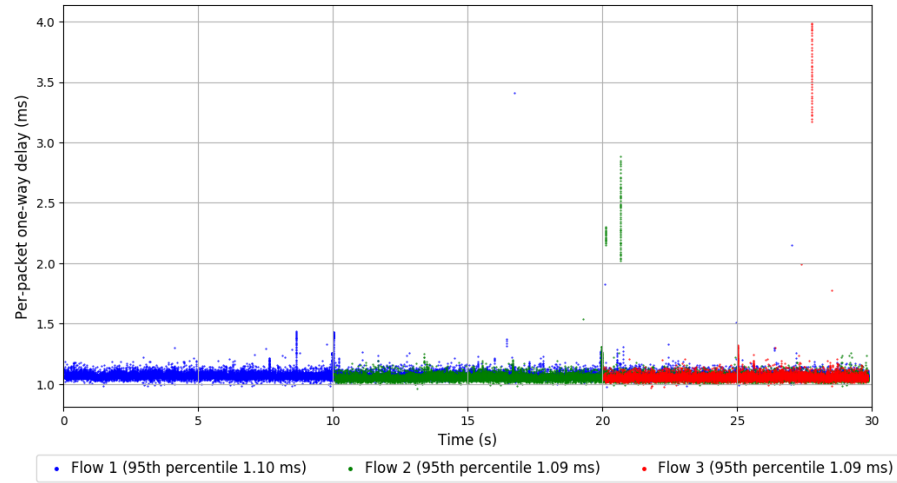
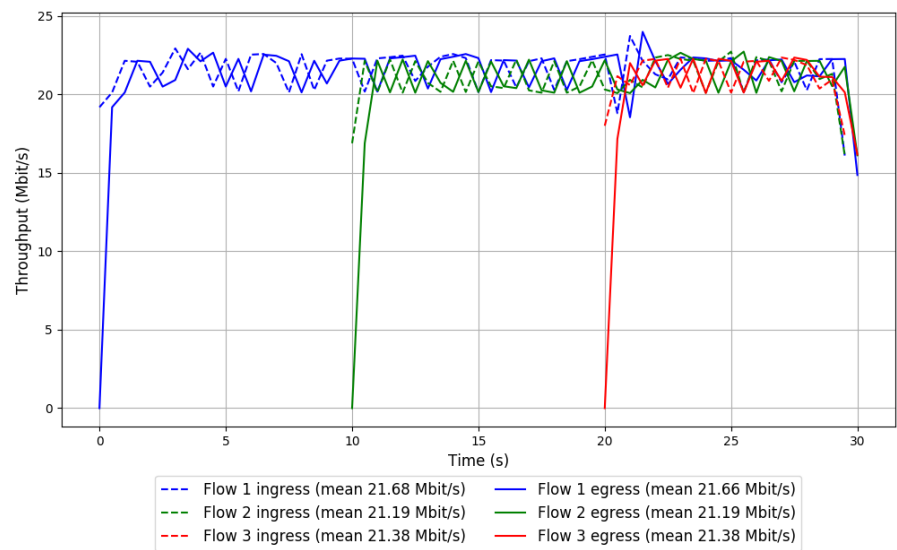
-- Flow 3:

Average throughput: 21.38 Mbit/s

95th percentile per-packet one-way delay: 1.089 ms

Loss rate: 0.48%

Run 4: Report of Sprout — Data Link

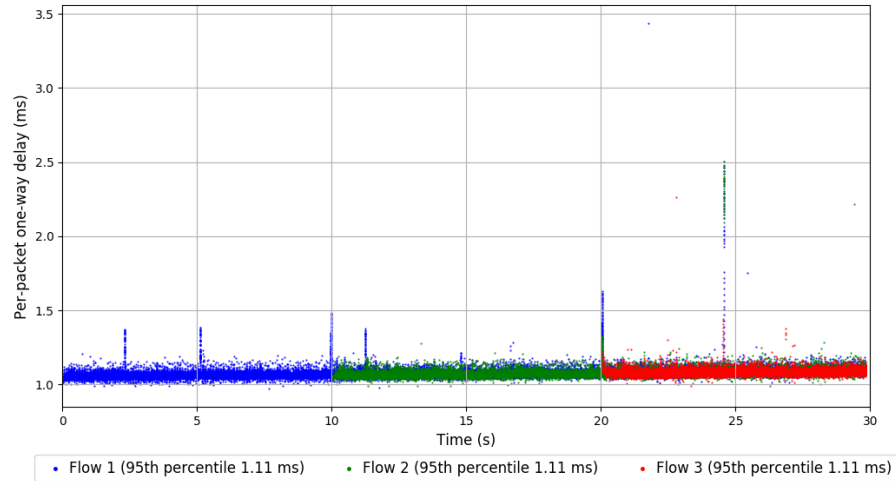
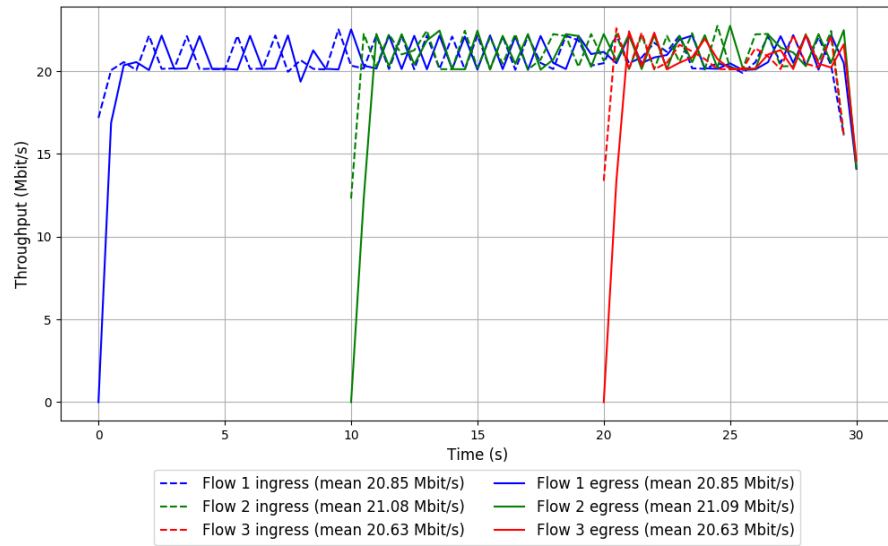


Run 5: Statistics of Sprout

Start at: 2018-07-18 10:56:28
End at: 2018-07-18 10:56:58
Local clock offset: -0.175 ms
Remote clock offset: 1.971 ms

```
# Below is generated by plot.py at 2018-07-18 15:32:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.61 Mbit/s
95th percentile per-packet one-way delay: 1.110 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 20.85 Mbit/s
95th percentile per-packet one-way delay: 1.110 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 21.09 Mbit/s
95th percentile per-packet one-way delay: 1.110 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 20.63 Mbit/s
95th percentile per-packet one-way delay: 1.111 ms
Loss rate: 0.49%
```

Run 5: Report of Sprout — Data Link

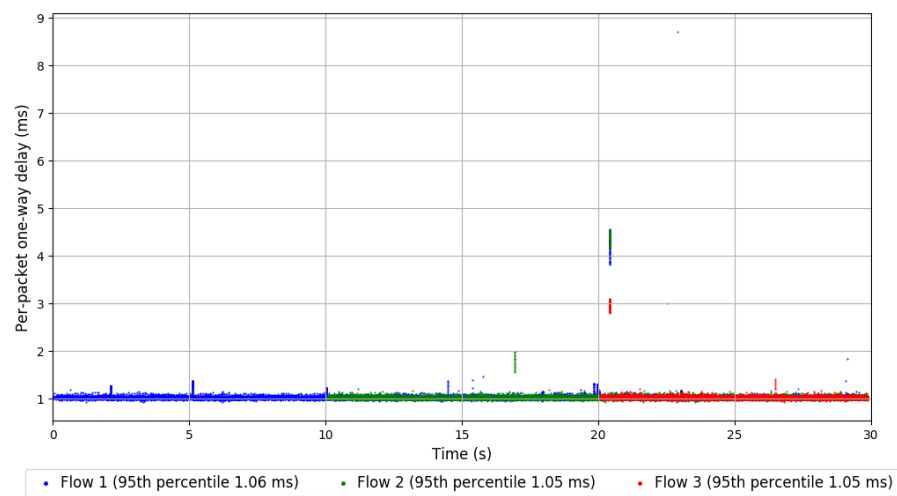
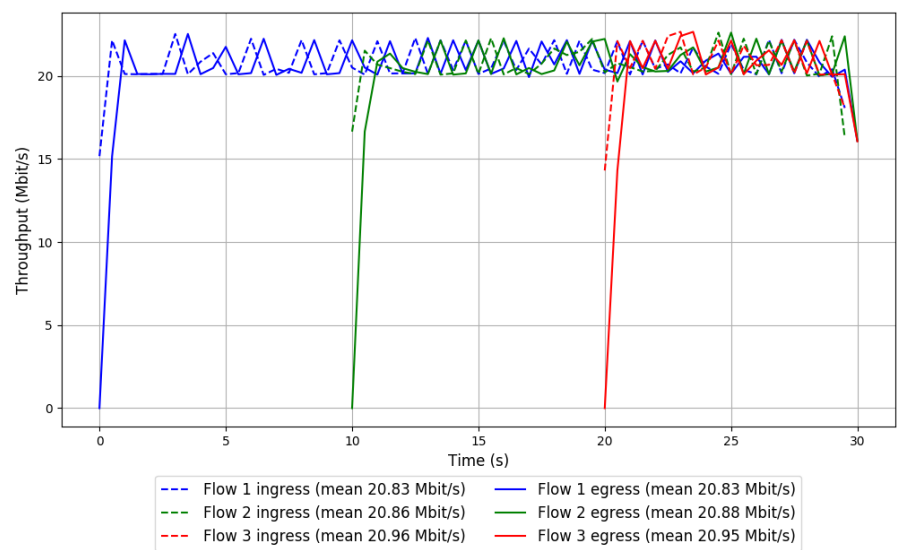


Run 6: Statistics of Sprout

Start at: 2018-07-18 11:23:20
End at: 2018-07-18 11:23:50
Local clock offset: -0.231 ms
Remote clock offset: 2.3 ms

Below is generated by plot.py at 2018-07-18 15:32:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.55 Mbit/s
95th percentile per-packet one-way delay: 1.056 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 20.83 Mbit/s
95th percentile per-packet one-way delay: 1.057 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 20.88 Mbit/s
95th percentile per-packet one-way delay: 1.055 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 20.95 Mbit/s
95th percentile per-packet one-way delay: 1.052 ms
Loss rate: 0.49%

Run 6: Report of Sprout — Data Link

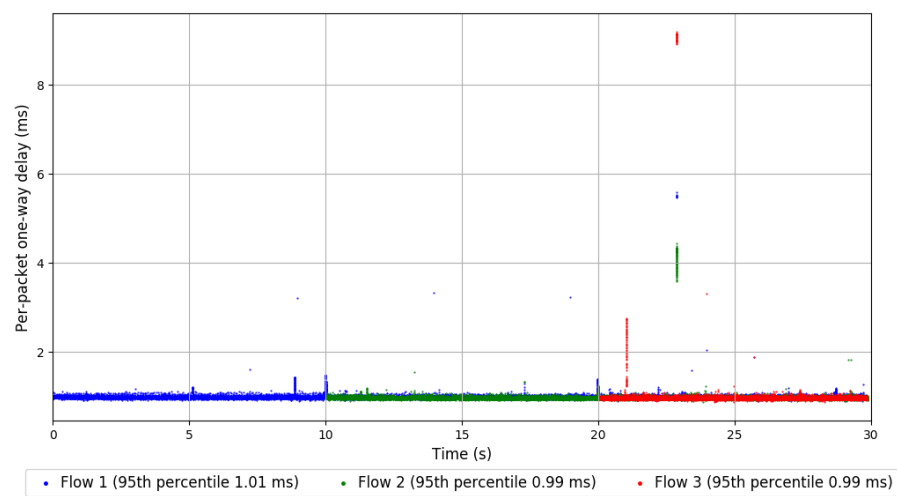
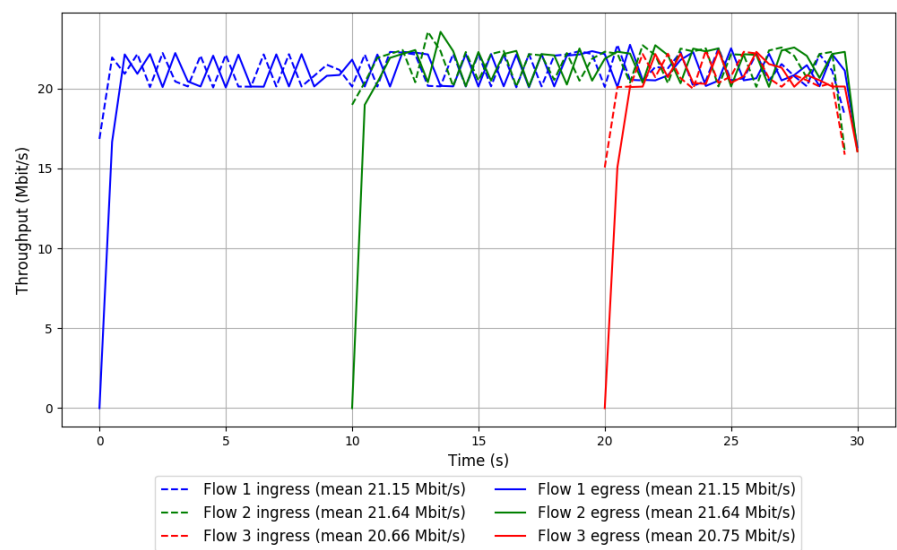


Run 7: Statistics of Sprout

Start at: 2018-07-18 11:50:18
End at: 2018-07-18 11:50:48
Local clock offset: -0.108 ms
Remote clock offset: 2.107 ms

```
# Below is generated by plot.py at 2018-07-18 15:32:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.34 Mbit/s
95th percentile per-packet one-way delay: 1.005 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 21.15 Mbit/s
95th percentile per-packet one-way delay: 1.010 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 21.64 Mbit/s
95th percentile per-packet one-way delay: 0.992 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.75 Mbit/s
95th percentile per-packet one-way delay: 0.994 ms
Loss rate: 0.00%
```


Run 7: Report of Sprout — Data Link

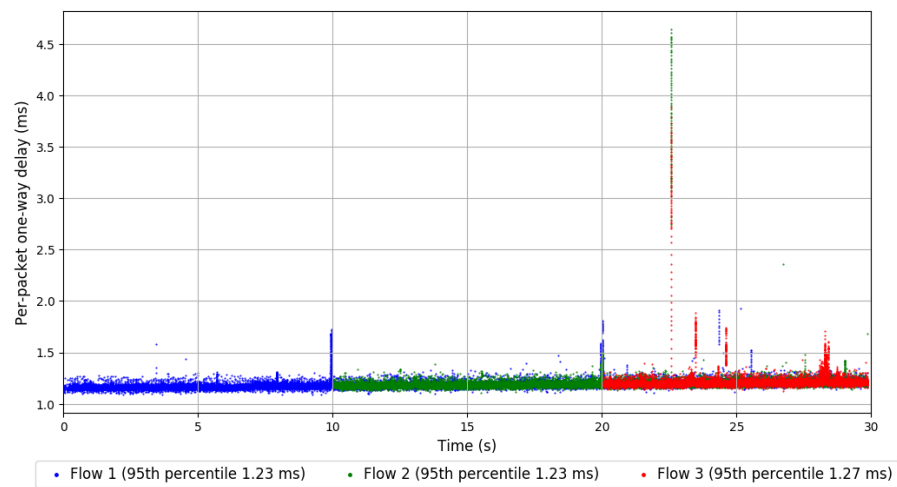
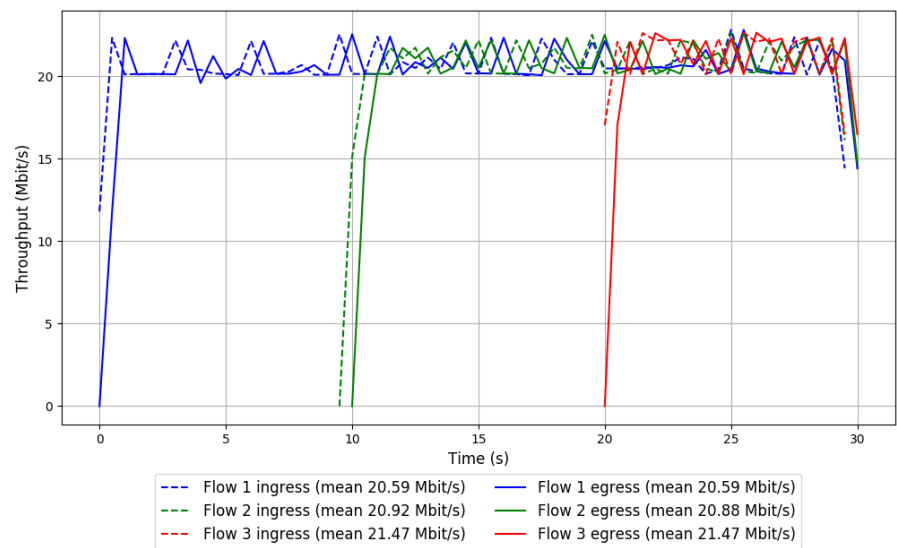


Run 8: Statistics of Sprout

Start at: 2018-07-18 12:17:11
End at: 2018-07-18 12:17:41
Local clock offset: -2.011 ms
Remote clock offset: 1.718 ms

```
# Below is generated by plot.py at 2018-07-18 15:32:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.54 Mbit/s
95th percentile per-packet one-way delay: 1.234 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 20.59 Mbit/s
95th percentile per-packet one-way delay: 1.227 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.88 Mbit/s
95th percentile per-packet one-way delay: 1.233 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 21.47 Mbit/s
95th percentile per-packet one-way delay: 1.268 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link

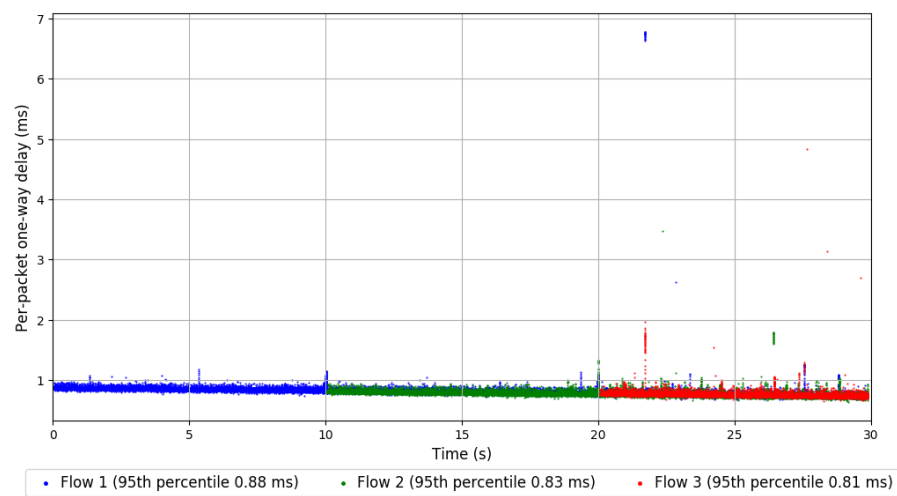
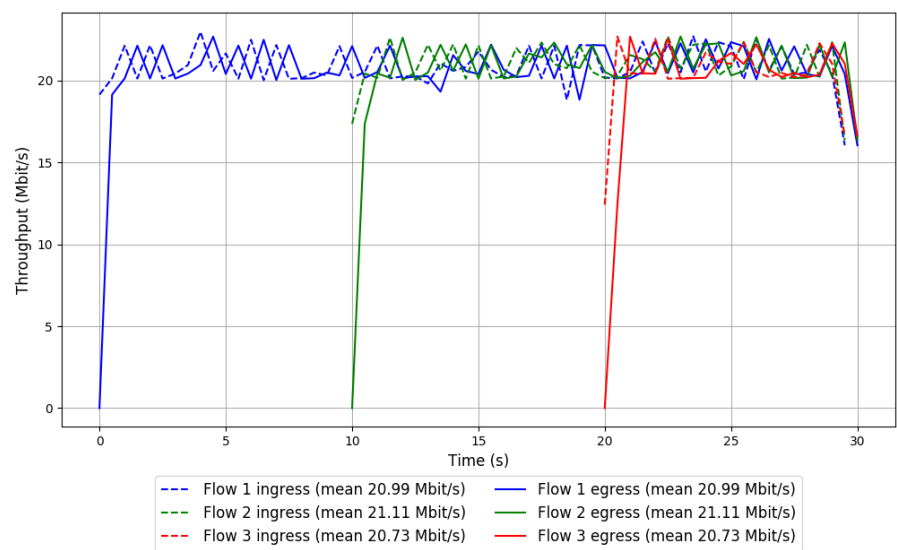


Run 9: Statistics of Sprout

Start at: 2018-07-18 12:44:06
End at: 2018-07-18 12:44:36
Local clock offset: -1.824 ms
Remote clock offset: 1.099 ms

Below is generated by plot.py at 2018-07-18 15:32:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.81 Mbit/s
95th percentile per-packet one-way delay: 0.871 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.99 Mbit/s
95th percentile per-packet one-way delay: 0.882 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 21.11 Mbit/s
95th percentile per-packet one-way delay: 0.832 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.73 Mbit/s
95th percentile per-packet one-way delay: 0.809 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-07-18 13:11:07

End at: 2018-07-18 13:11:37

Local clock offset: 1.266 ms

Remote clock offset: 0.614 ms

Below is generated by plot.py at 2018-07-18 15:32:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.01 Mbit/s

95th percentile per-packet one-way delay: 0.829 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 20.49 Mbit/s

95th percentile per-packet one-way delay: 0.839 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 20.61 Mbit/s

95th percentile per-packet one-way delay: 0.812 ms

Loss rate: 0.25%

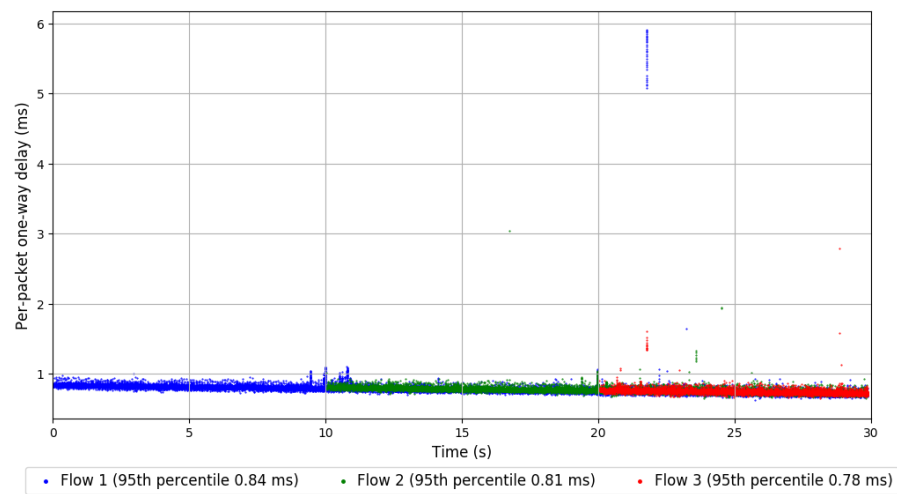
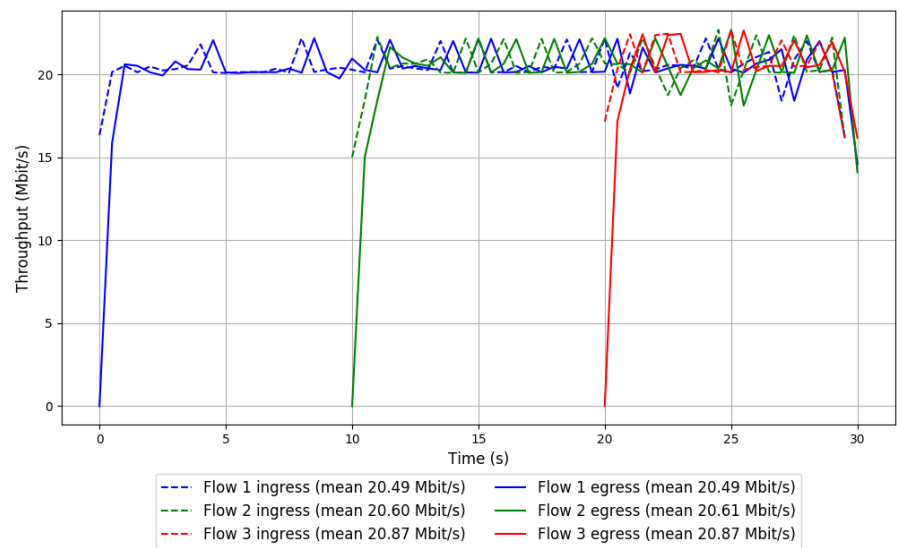
-- Flow 3:

Average throughput: 20.87 Mbit/s

95th percentile per-packet one-way delay: 0.780 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

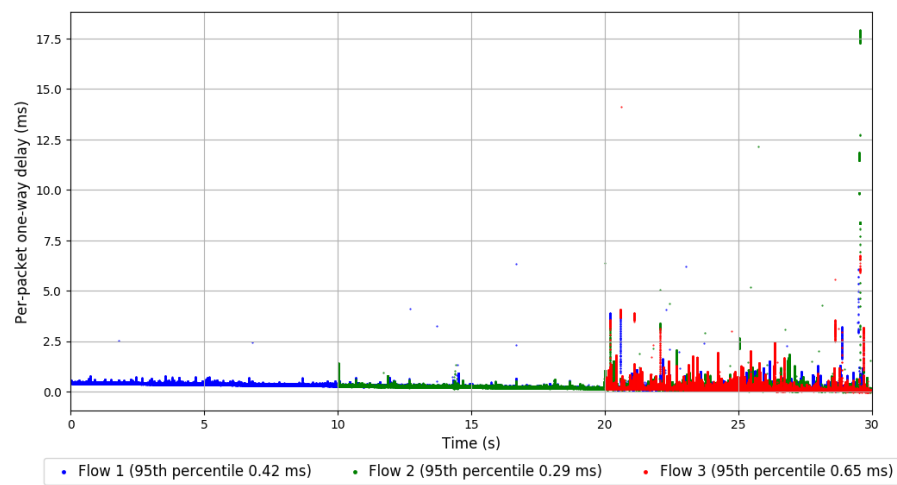
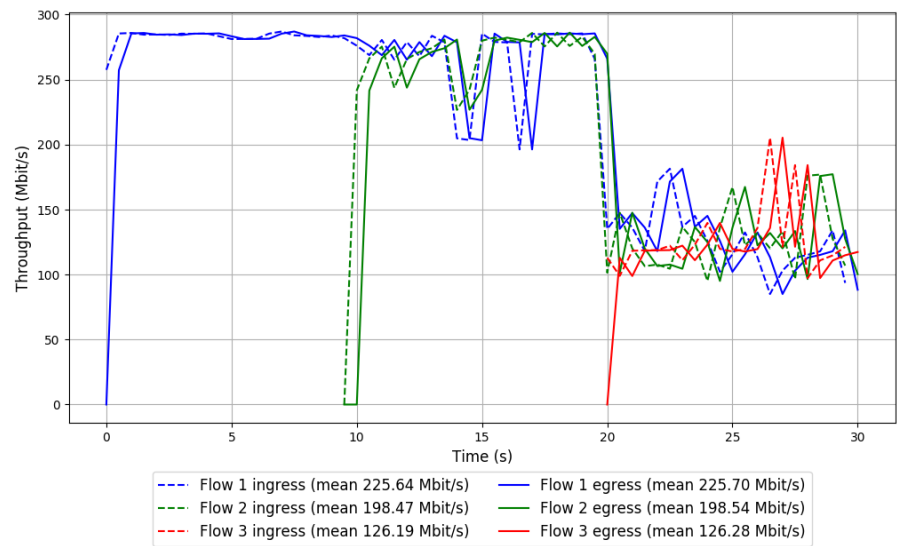


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-07-18 09:10:08
End at: 2018-07-18 09:10:38
Local clock offset: -3.724 ms
Remote clock offset: 0.012 ms

# Below is generated by plot.py at 2018-07-18 15:38:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 399.89 Mbit/s
95th percentile per-packet one-way delay: 0.415 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 225.70 Mbit/s
95th percentile per-packet one-way delay: 0.420 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 198.54 Mbit/s
95th percentile per-packet one-way delay: 0.291 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 126.28 Mbit/s
95th percentile per-packet one-way delay: 0.651 ms
Loss rate: 0.16%
```


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



Run 2: Statistics of TaoVA-100x

Start at: 2018-07-18 09:37:09

End at: 2018-07-18 09:37:39

Local clock offset: 3.961 ms

Remote clock offset: 0.638 ms

Below is generated by plot.py at 2018-07-18 15:38:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 384.43 Mbit/s

95th percentile per-packet one-way delay: 1.051 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 214.60 Mbit/s

95th percentile per-packet one-way delay: 1.042 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 197.35 Mbit/s

95th percentile per-packet one-way delay: 1.064 ms

Loss rate: 0.07%

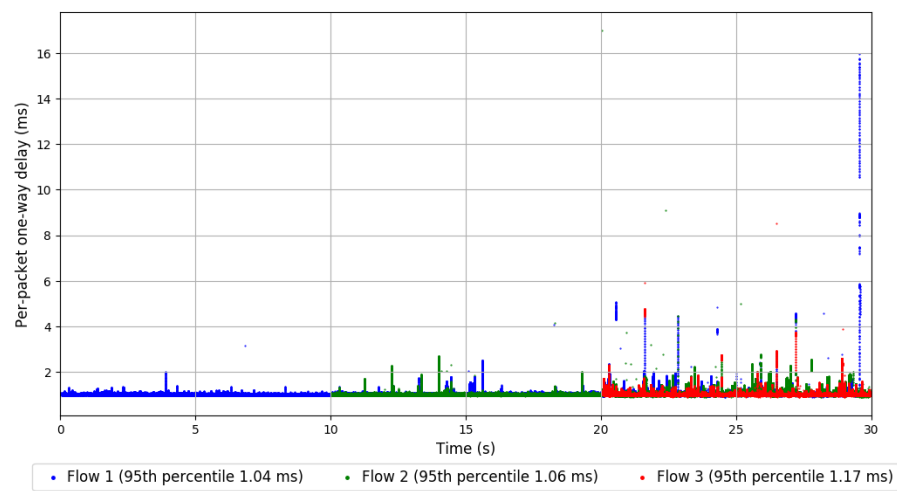
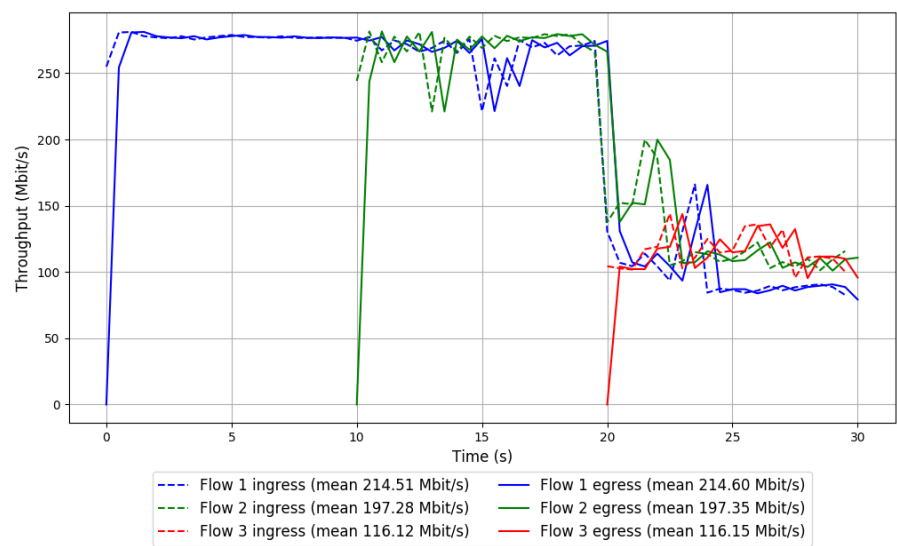
-- Flow 3:

Average throughput: 116.15 Mbit/s

95th percentile per-packet one-way delay: 1.166 ms

Loss rate: 0.20%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-07-18 10:04:00

End at: 2018-07-18 10:04:30

Local clock offset: 3.721 ms

Remote clock offset: 1.291 ms

Below is generated by plot.py at 2018-07-18 15:39:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 396.33 Mbit/s

95th percentile per-packet one-way delay: 1.085 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 229.05 Mbit/s

95th percentile per-packet one-way delay: 1.060 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 199.53 Mbit/s

95th percentile per-packet one-way delay: 1.086 ms

Loss rate: 0.07%

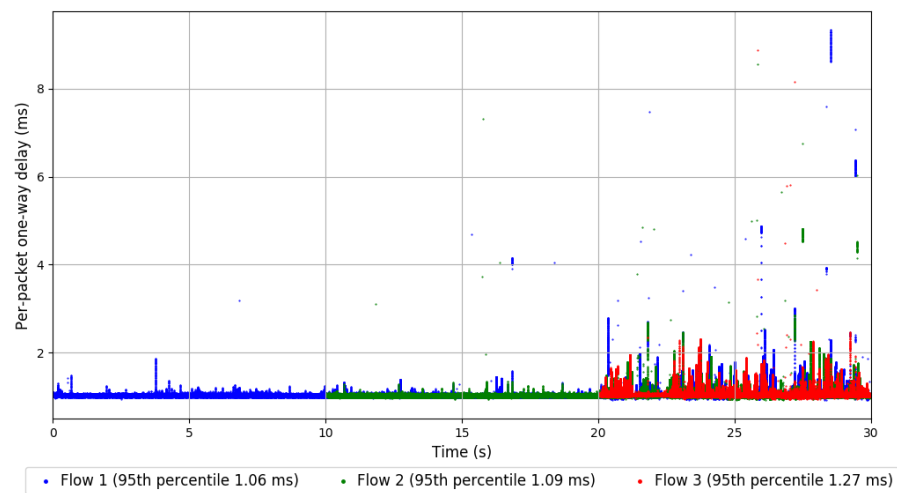
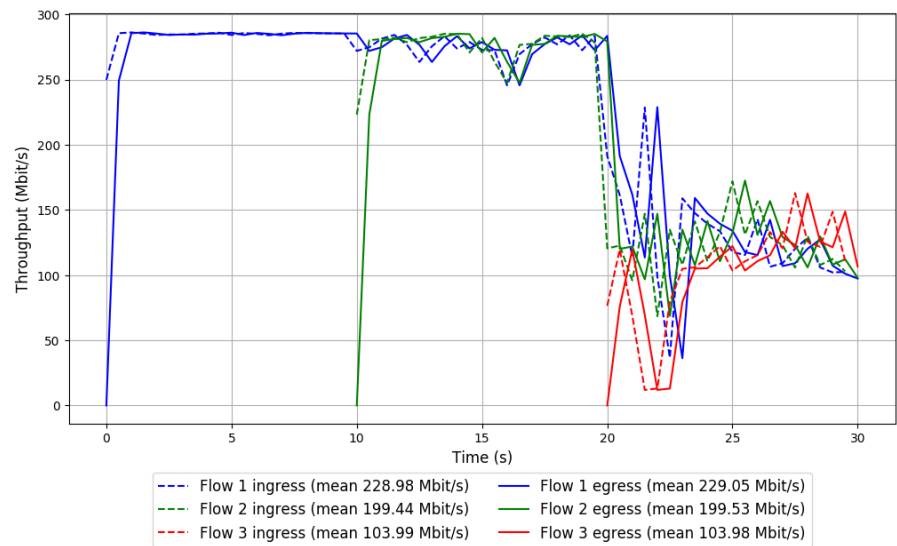
-- Flow 3:

Average throughput: 103.98 Mbit/s

95th percentile per-packet one-way delay: 1.273 ms

Loss rate: 0.22%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-07-18 10:30:54

End at: 2018-07-18 10:31:24

Local clock offset: 3.361 ms

Remote clock offset: 1.639 ms

Below is generated by plot.py at 2018-07-18 15:39:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 390.65 Mbit/s

95th percentile per-packet one-way delay: 1.200 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 225.88 Mbit/s

95th percentile per-packet one-way delay: 1.174 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 208.27 Mbit/s

95th percentile per-packet one-way delay: 1.177 ms

Loss rate: 0.07%

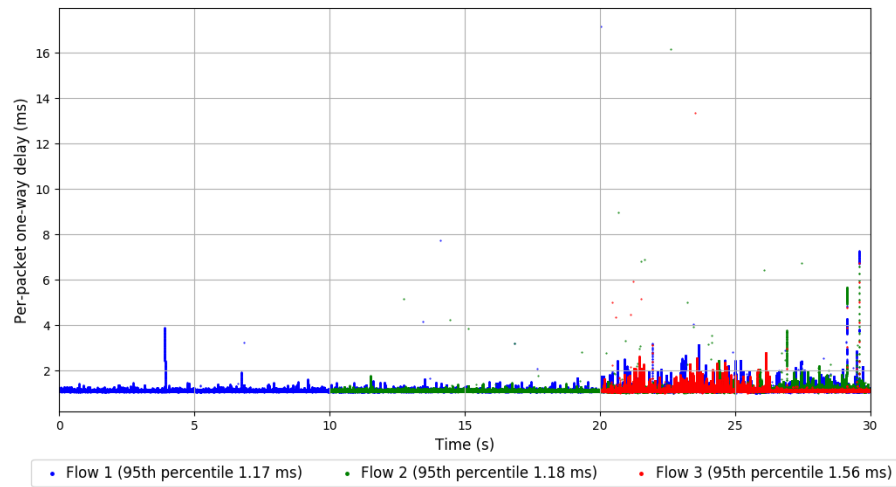
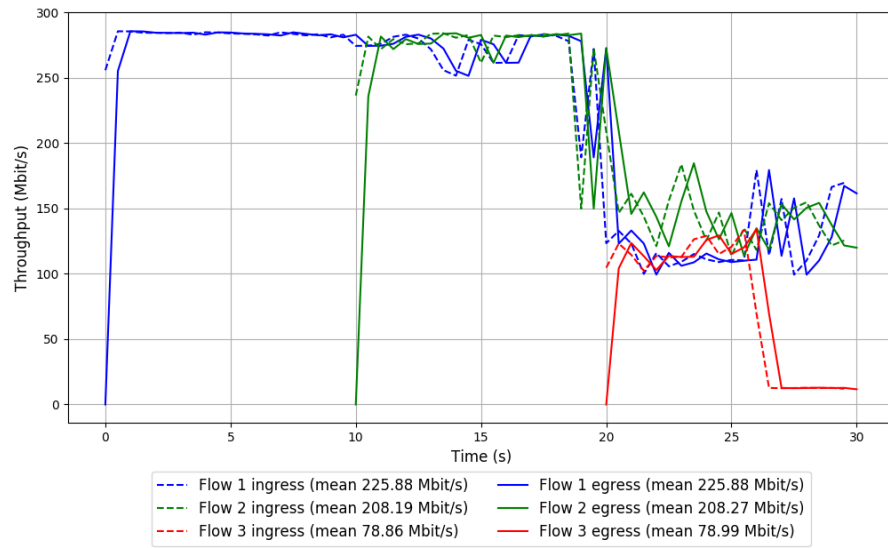
-- Flow 3:

Average throughput: 78.99 Mbit/s

95th percentile per-packet one-way delay: 1.558 ms

Loss rate: 0.03%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-07-18 10:57:48

End at: 2018-07-18 10:58:19

Local clock offset: -0.181 ms

Remote clock offset: 1.972 ms

Below is generated by plot.py at 2018-07-18 15:39:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 387.72 Mbit/s

95th percentile per-packet one-way delay: 1.261 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 217.76 Mbit/s

95th percentile per-packet one-way delay: 1.208 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 194.18 Mbit/s

95th percentile per-packet one-way delay: 1.266 ms

Loss rate: 0.09%

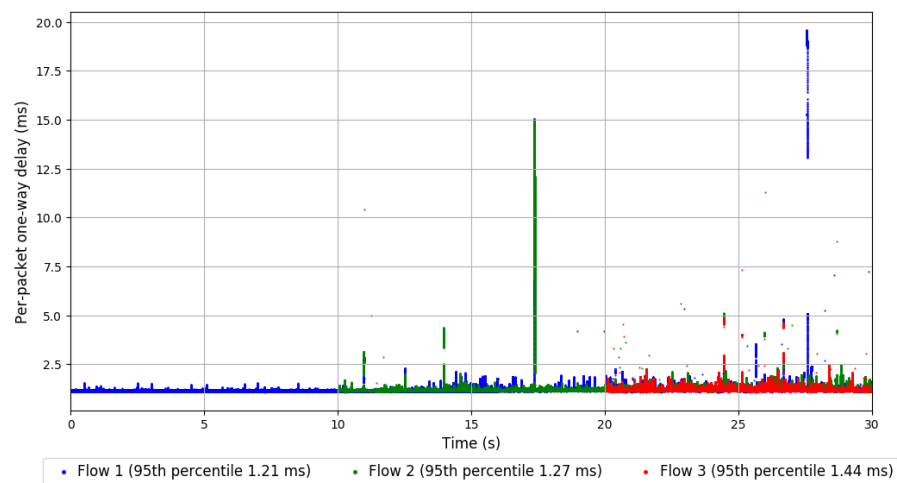
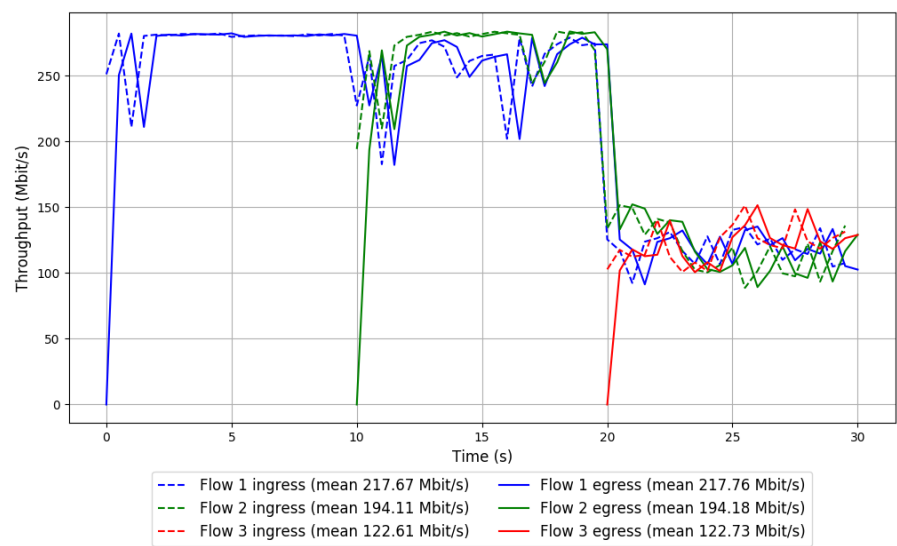
-- Flow 3:

Average throughput: 122.73 Mbit/s

95th percentile per-packet one-way delay: 1.438 ms

Loss rate: 0.11%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-07-18 11:24:40

End at: 2018-07-18 11:25:10

Local clock offset: -0.317 ms

Remote clock offset: 2.274 ms

Below is generated by plot.py at 2018-07-18 15:39:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 397.10 Mbit/s

95th percentile per-packet one-way delay: 1.016 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 222.83 Mbit/s

95th percentile per-packet one-way delay: 0.978 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 203.05 Mbit/s

95th percentile per-packet one-way delay: 0.990 ms

Loss rate: 0.05%

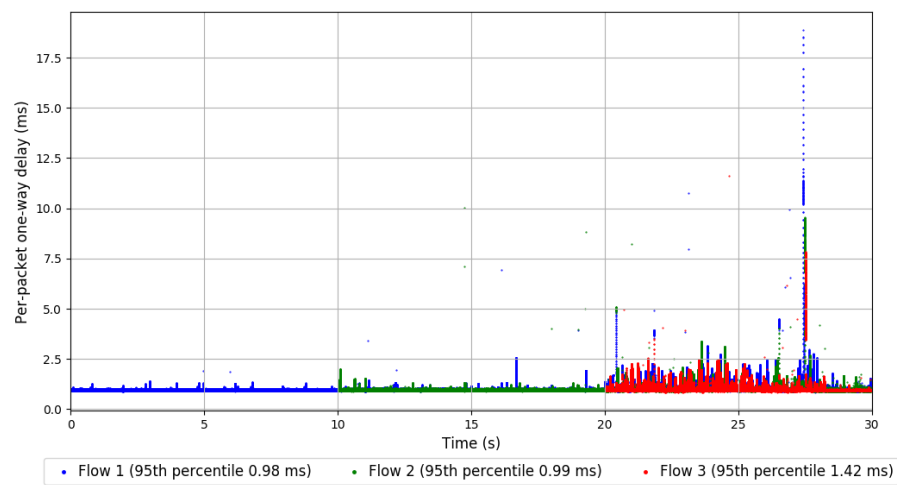
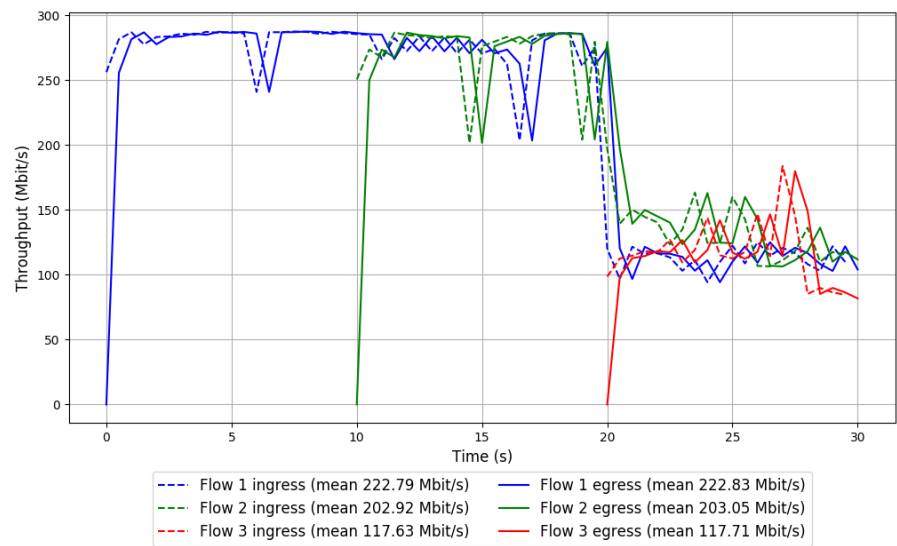
-- Flow 3:

Average throughput: 117.71 Mbit/s

95th percentile per-packet one-way delay: 1.424 ms

Loss rate: 0.13%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-18 11:51:38

End at: 2018-07-18 11:52:08

Local clock offset: -0.005 ms

Remote clock offset: 2.075 ms

Below is generated by plot.py at 2018-07-18 15:39:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 405.91 Mbit/s

95th percentile per-packet one-way delay: 1.124 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 228.56 Mbit/s

95th percentile per-packet one-way delay: 1.110 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 204.93 Mbit/s

95th percentile per-packet one-way delay: 1.108 ms

Loss rate: 0.08%

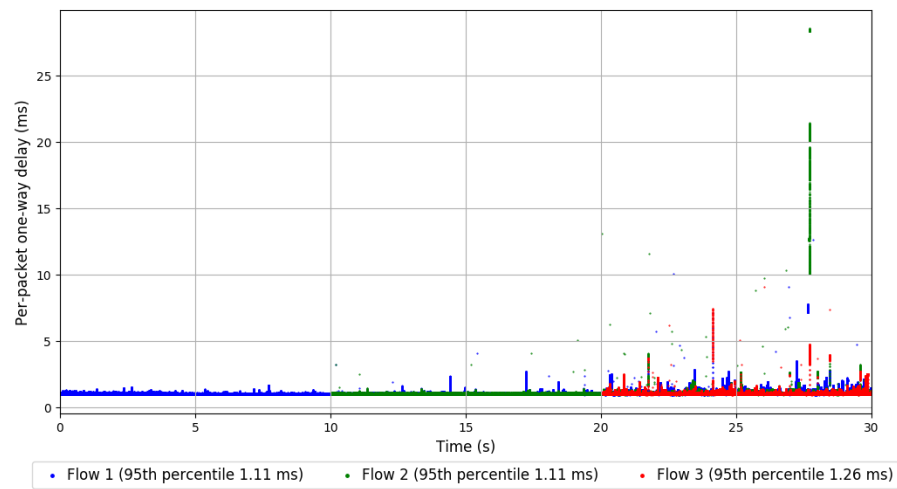
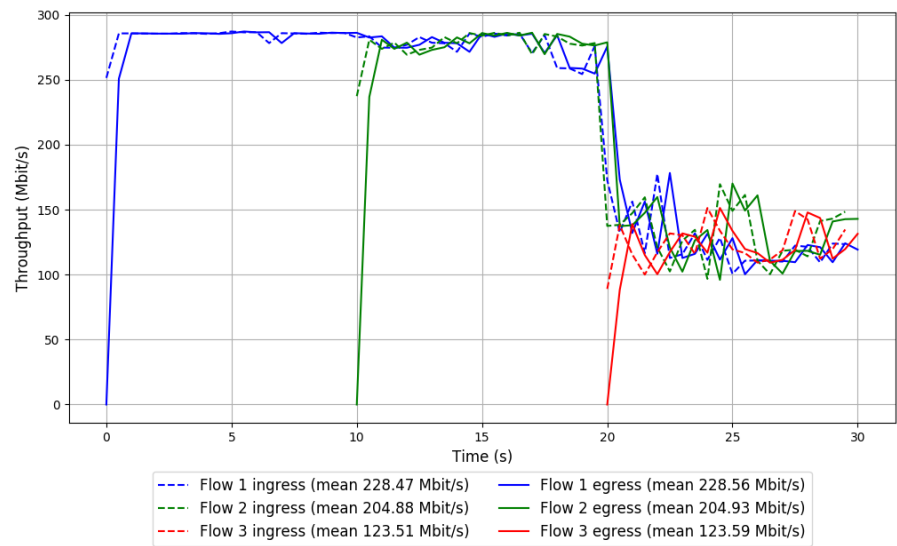
-- Flow 3:

Average throughput: 123.59 Mbit/s

95th percentile per-packet one-way delay: 1.264 ms

Loss rate: 0.13%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-18 12:18:31

End at: 2018-07-18 12:19:01

Local clock offset: -2.263 ms

Remote clock offset: 1.741 ms

Below is generated by plot.py at 2018-07-18 15:40:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 403.53 Mbit/s

95th percentile per-packet one-way delay: 1.182 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 228.31 Mbit/s

95th percentile per-packet one-way delay: 1.088 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 203.90 Mbit/s

95th percentile per-packet one-way delay: 1.186 ms

Loss rate: 0.00%

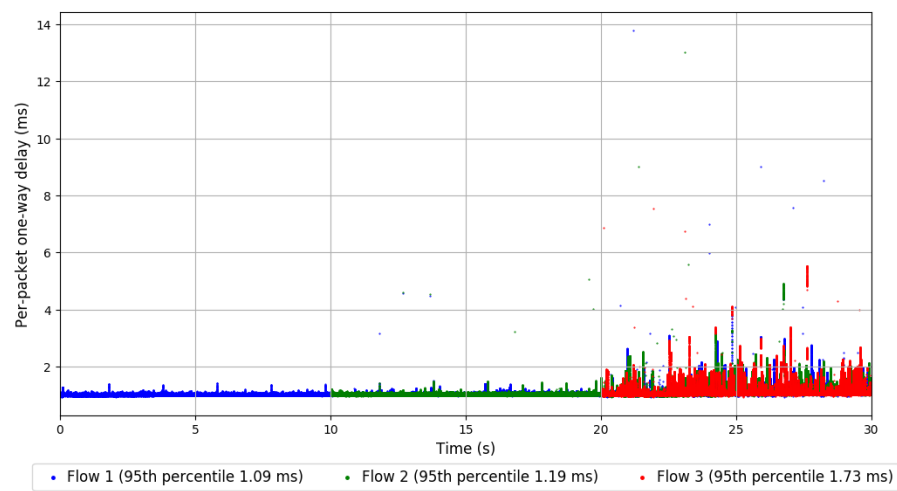
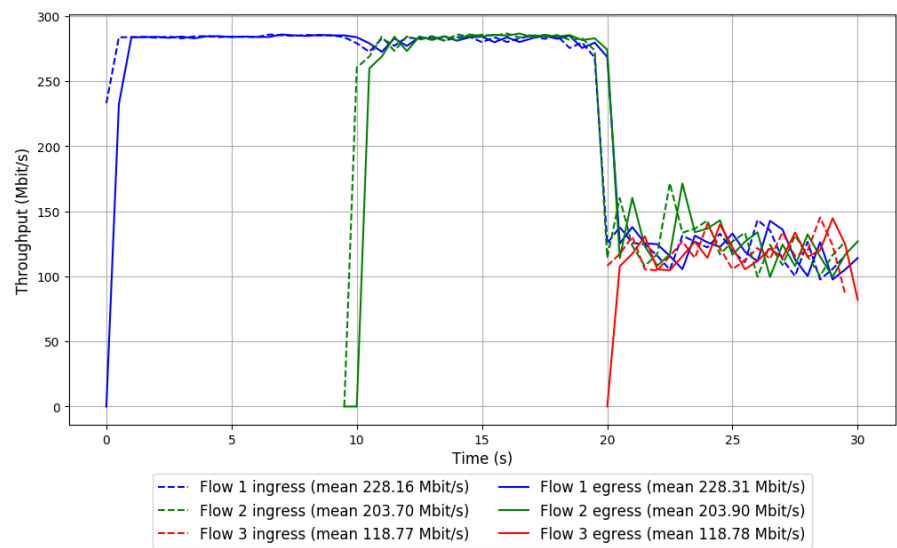
-- Flow 3:

Average throughput: 118.78 Mbit/s

95th percentile per-packet one-way delay: 1.725 ms

Loss rate: 0.20%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-07-18 12:45:26

End at: 2018-07-18 12:45:56

Local clock offset: -1.507 ms

Remote clock offset: 1.007 ms

Below is generated by plot.py at 2018-07-18 15:46:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 399.48 Mbit/s

95th percentile per-packet one-way delay: 0.944 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 231.49 Mbit/s

95th percentile per-packet one-way delay: 0.900 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 197.54 Mbit/s

95th percentile per-packet one-way delay: 1.010 ms

Loss rate: 0.15%

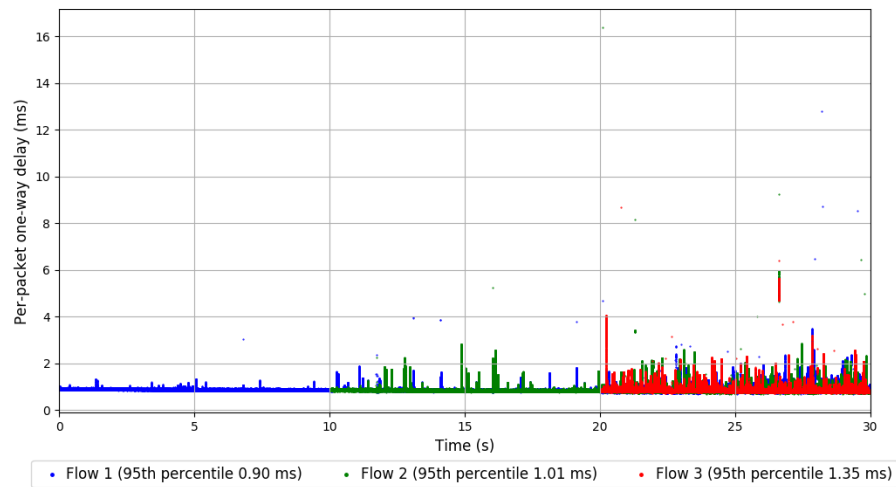
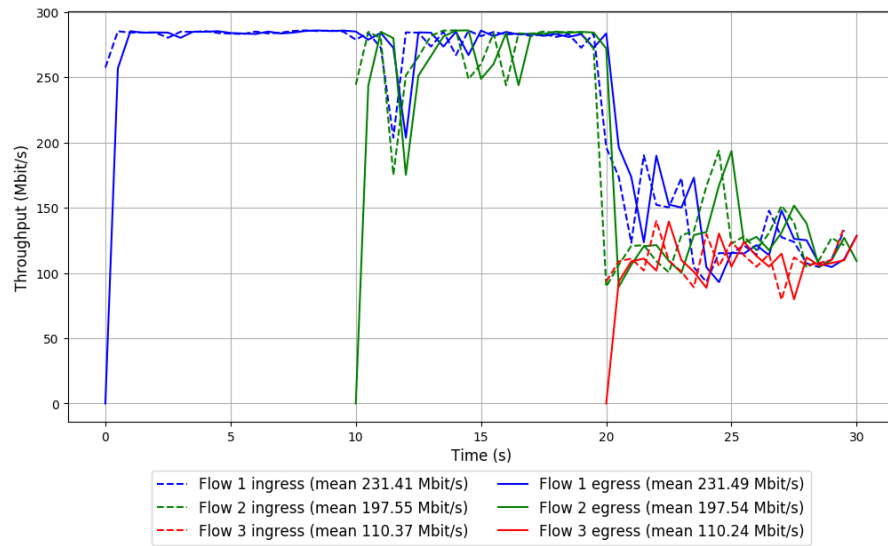
-- Flow 3:

Average throughput: 110.24 Mbit/s

95th percentile per-packet one-way delay: 1.353 ms

Loss rate: 0.32%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-18 13:12:27

End at: 2018-07-18 13:12:57

Local clock offset: 1.658 ms

Remote clock offset: 0.591 ms

Below is generated by plot.py at 2018-07-18 15:46:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 399.60 Mbit/s

95th percentile per-packet one-way delay: 0.912 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 223.63 Mbit/s

95th percentile per-packet one-way delay: 0.905 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 203.62 Mbit/s

95th percentile per-packet one-way delay: 0.903 ms

Loss rate: 0.05%

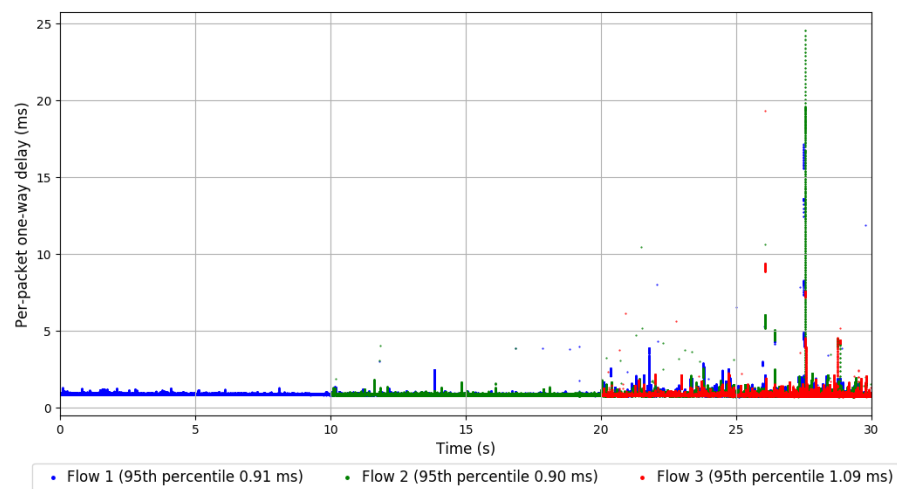
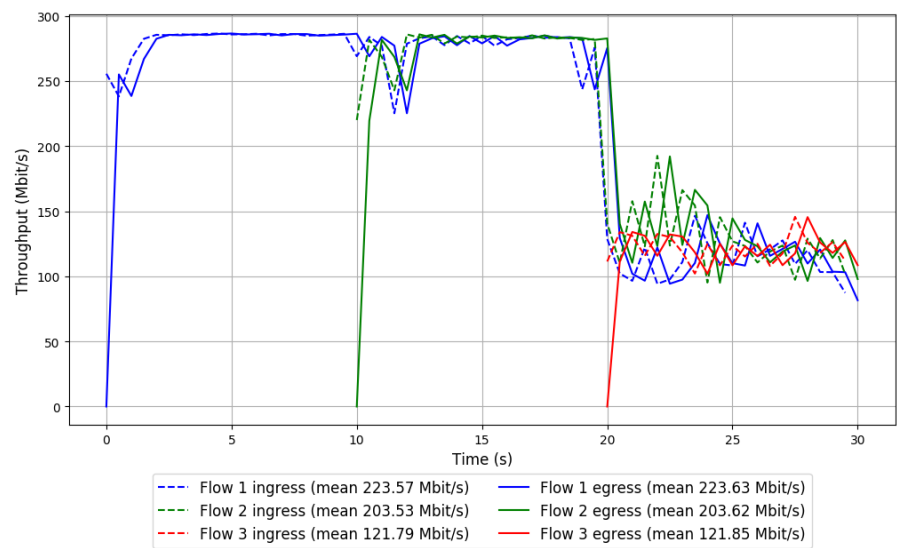
-- Flow 3:

Average throughput: 121.85 Mbit/s

95th percentile per-packet one-way delay: 1.091 ms

Loss rate: 0.14%

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

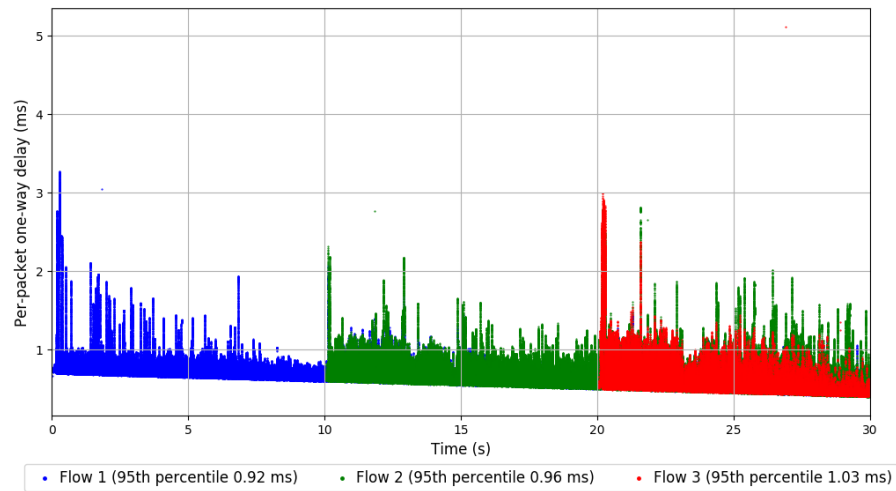
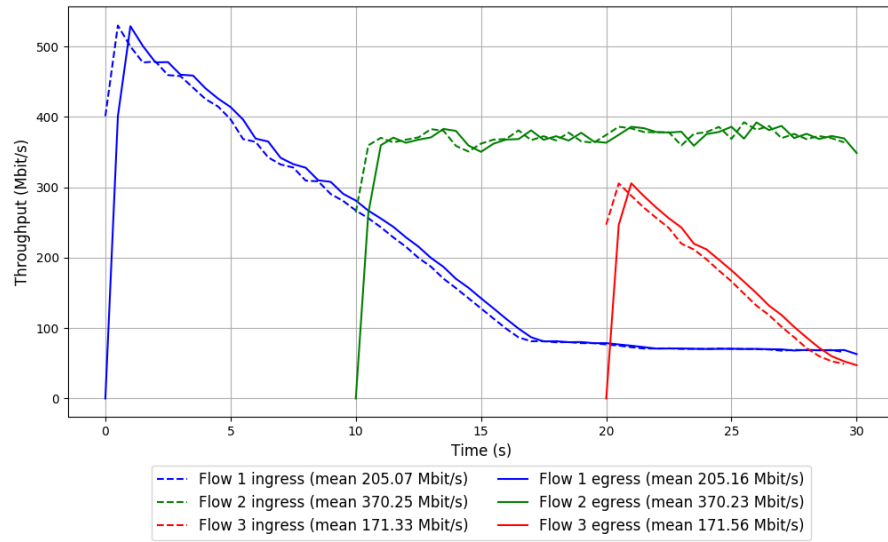


Run 1: Statistics of TCP Vegas

Start at: 2018-07-18 09:11:51
End at: 2018-07-18 09:12:21
Local clock offset: -2.295 ms
Remote clock offset: -0.027 ms

Below is generated by plot.py at 2018-07-18 15:46:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 508.62 Mbit/s
95th percentile per-packet one-way delay: 0.954 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 205.16 Mbit/s
95th percentile per-packet one-way delay: 0.924 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 370.23 Mbit/s
95th percentile per-packet one-way delay: 0.957 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 171.56 Mbit/s
95th percentile per-packet one-way delay: 1.029 ms
Loss rate: 0.06%

Run 1: Report of TCP Vegas — Data Link

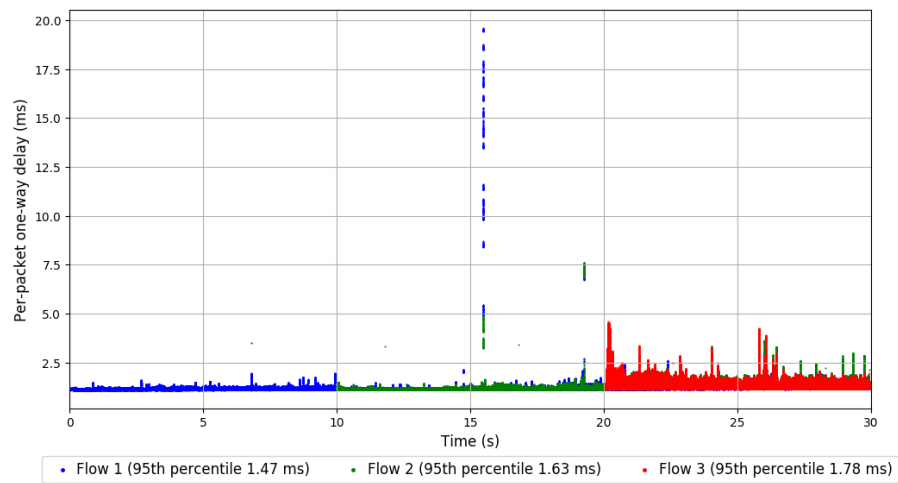
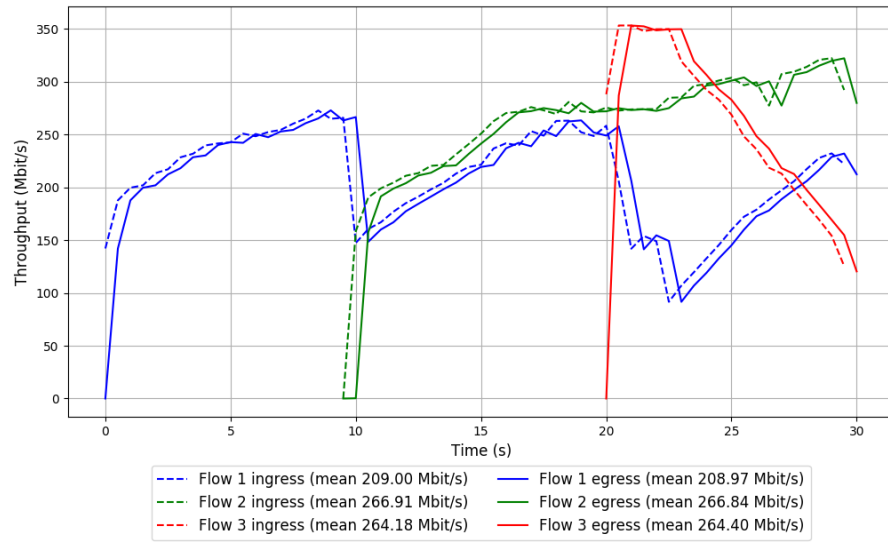


Run 2: Statistics of TCP Vegas

Start at: 2018-07-18 09:38:50
End at: 2018-07-18 09:39:20
Local clock offset: 4.105 ms
Remote clock offset: 0.7 ms

Below is generated by plot.py at 2018-07-18 15:46:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 474.66 Mbit/s
95th percentile per-packet one-way delay: 1.616 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 208.97 Mbit/s
95th percentile per-packet one-way delay: 1.474 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 266.84 Mbit/s
95th percentile per-packet one-way delay: 1.627 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 264.40 Mbit/s
95th percentile per-packet one-way delay: 1.781 ms
Loss rate: 0.10%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-07-18 10:05:42

End at: 2018-07-18 10:06:12

Local clock offset: 3.646 ms

Remote clock offset: 1.276 ms

Below is generated by plot.py at 2018-07-18 15:46:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 605.03 Mbit/s

95th percentile per-packet one-way delay: 1.538 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 300.12 Mbit/s

95th percentile per-packet one-way delay: 1.523 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 346.10 Mbit/s

95th percentile per-packet one-way delay: 1.514 ms

Loss rate: 0.10%

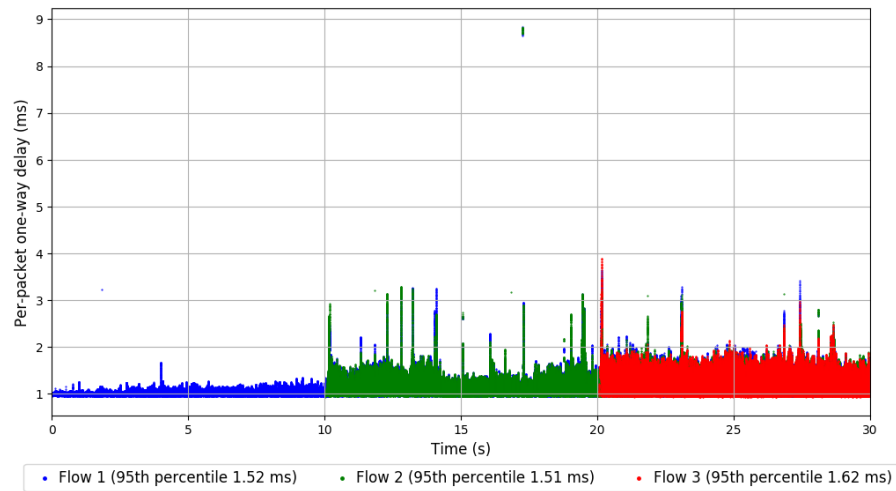
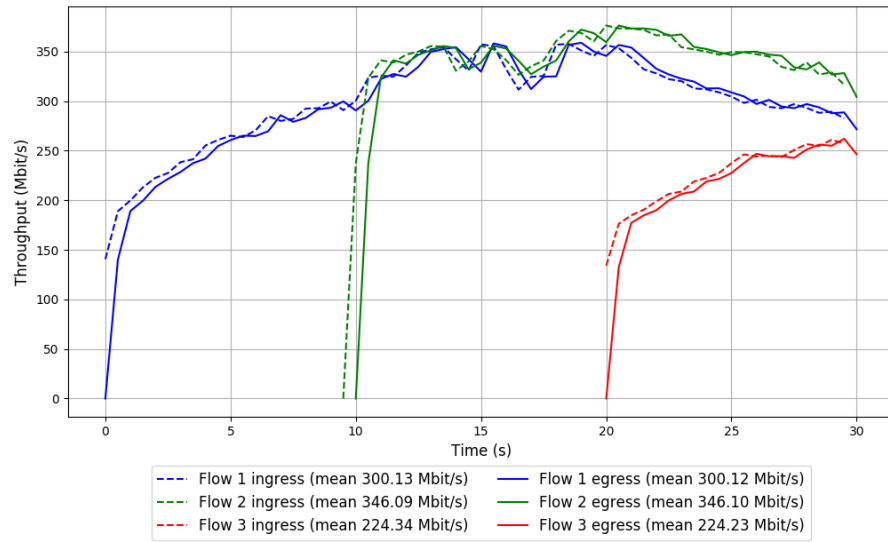
-- Flow 3:

Average throughput: 224.23 Mbit/s

95th percentile per-packet one-way delay: 1.616 ms

Loss rate: 0.25%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-07-18 10:32:36

End at: 2018-07-18 10:33:06

Local clock offset: 3.352 ms

Remote clock offset: 1.687 ms

Below is generated by plot.py at 2018-07-18 15:46:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 519.14 Mbit/s

95th percentile per-packet one-way delay: 1.440 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 188.75 Mbit/s

95th percentile per-packet one-way delay: 1.378 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 232.86 Mbit/s

95th percentile per-packet one-way delay: 1.509 ms

Loss rate: 0.03%

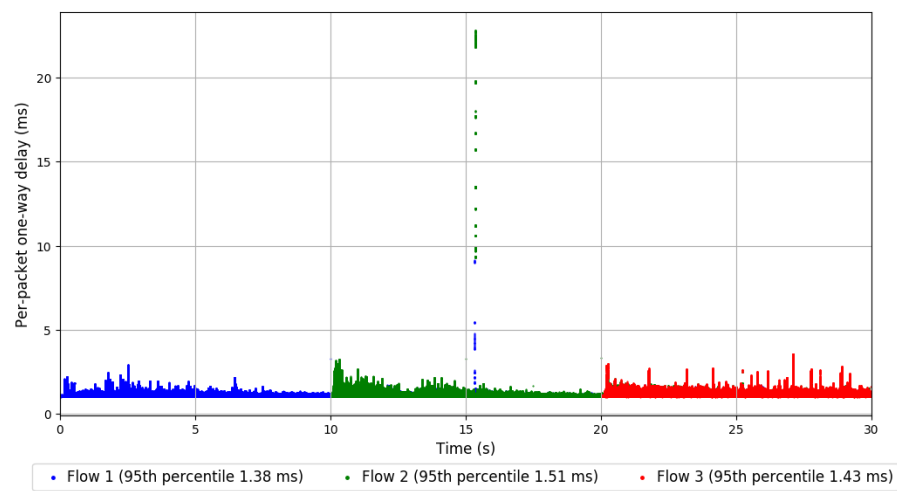
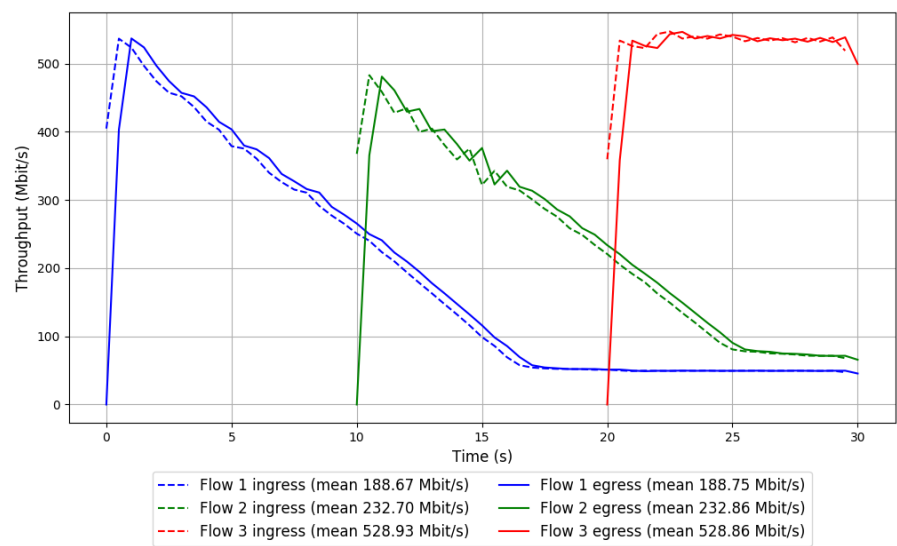
-- Flow 3:

Average throughput: 528.86 Mbit/s

95th percentile per-packet one-way delay: 1.433 ms

Loss rate: 0.20%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-07-18 10:59:30

End at: 2018-07-18 11:00:00

Local clock offset: -0.42 ms

Remote clock offset: 2.002 ms

Below is generated by plot.py at 2018-07-18 15:46:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 508.37 Mbit/s

95th percentile per-packet one-way delay: 1.517 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 326.11 Mbit/s

95th percentile per-packet one-way delay: 1.532 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 146.47 Mbit/s

95th percentile per-packet one-way delay: 1.460 ms

Loss rate: 0.05%

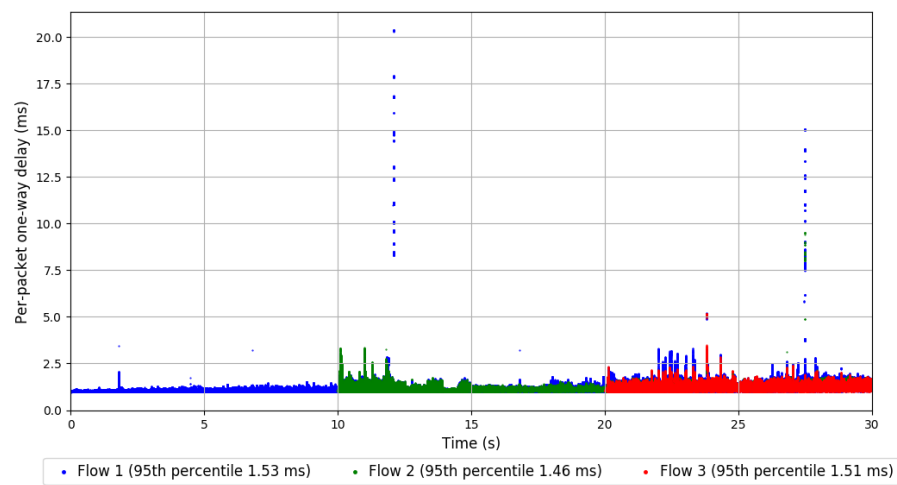
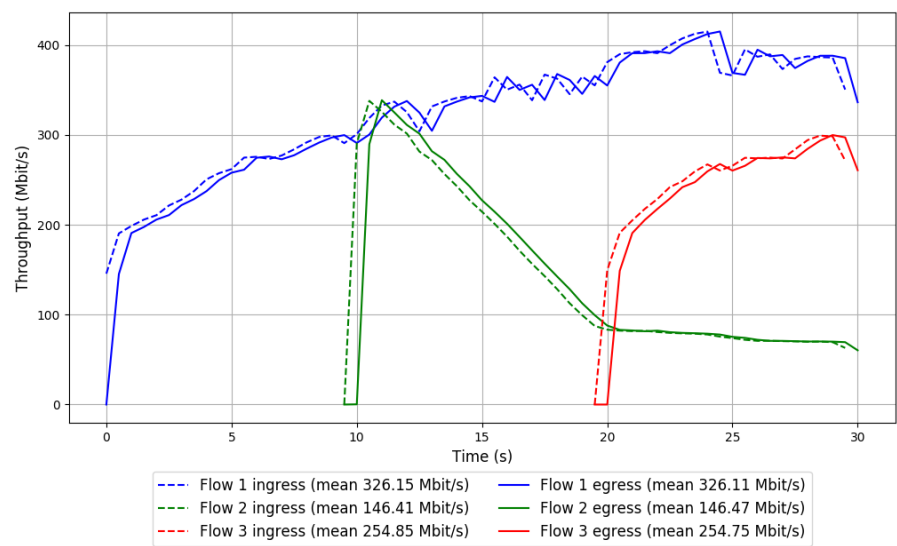
-- Flow 3:

Average throughput: 254.75 Mbit/s

95th percentile per-packet one-way delay: 1.513 ms

Loss rate: 0.23%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-07-18 11:26:22

End at: 2018-07-18 11:26:52

Local clock offset: -0.222 ms

Remote clock offset: 2.219 ms

Below is generated by plot.py at 2018-07-18 15:47:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 617.32 Mbit/s

95th percentile per-packet one-way delay: 1.748 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 323.82 Mbit/s

95th percentile per-packet one-way delay: 1.622 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 278.29 Mbit/s

95th percentile per-packet one-way delay: 1.792 ms

Loss rate: 0.10%

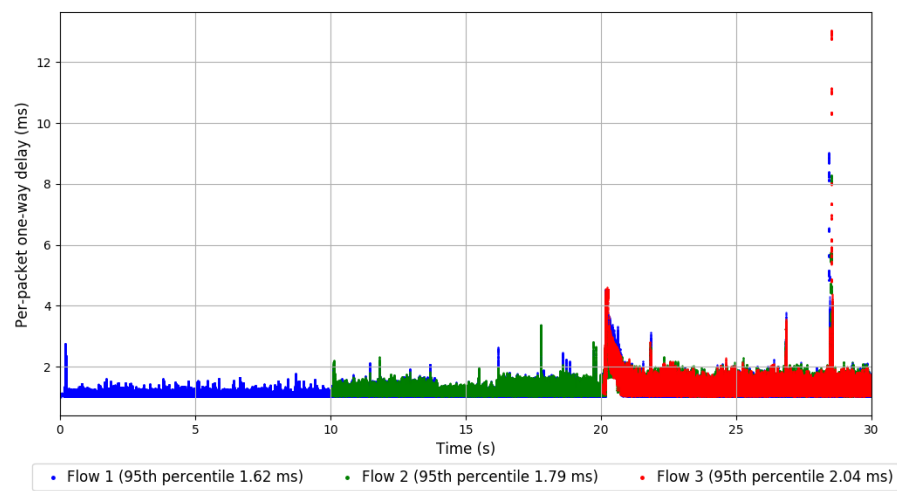
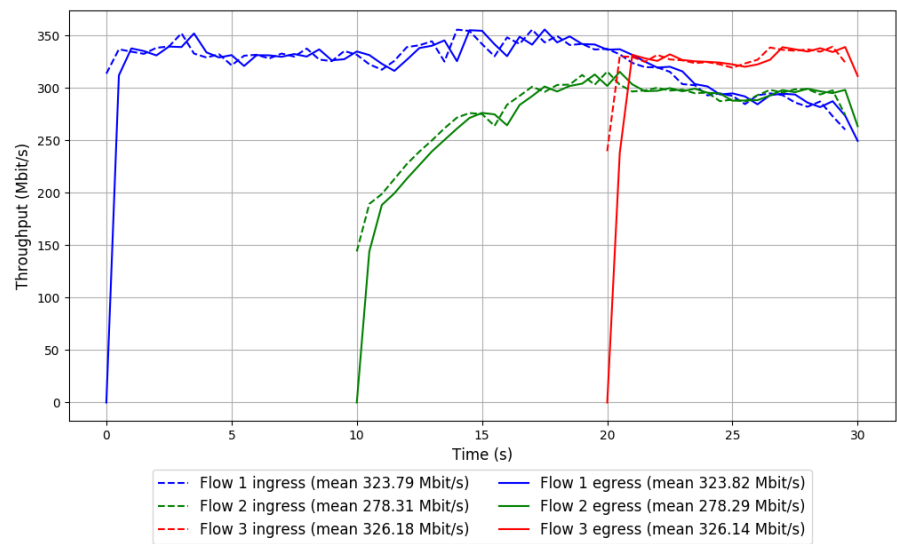
-- Flow 3:

Average throughput: 326.14 Mbit/s

95th percentile per-packet one-way delay: 2.045 ms

Loss rate: 0.21%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-18 11:53:20

End at: 2018-07-18 11:53:51

Local clock offset: 0.021 ms

Remote clock offset: 2.087 ms

Below is generated by plot.py at 2018-07-18 15:50:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 591.53 Mbit/s

95th percentile per-packet one-way delay: 2.763 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 346.71 Mbit/s

95th percentile per-packet one-way delay: 1.974 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 112.43 Mbit/s

95th percentile per-packet one-way delay: 1.674 ms

Loss rate: 0.04%

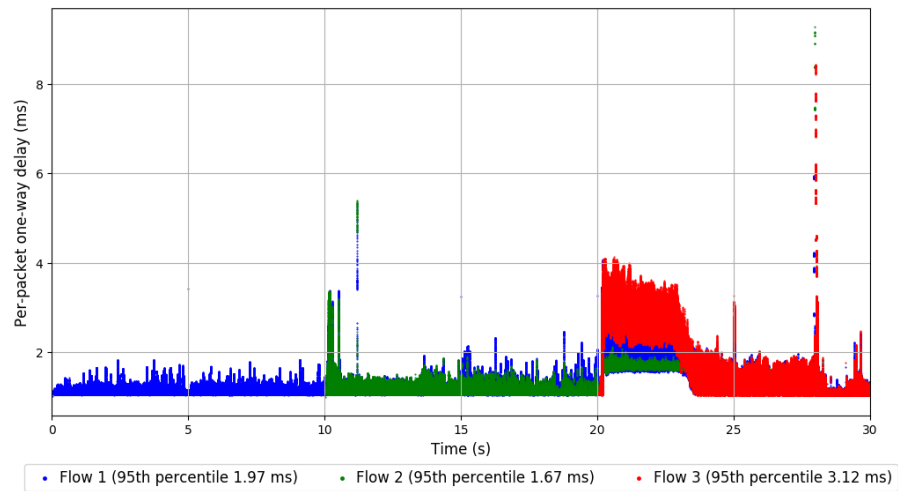
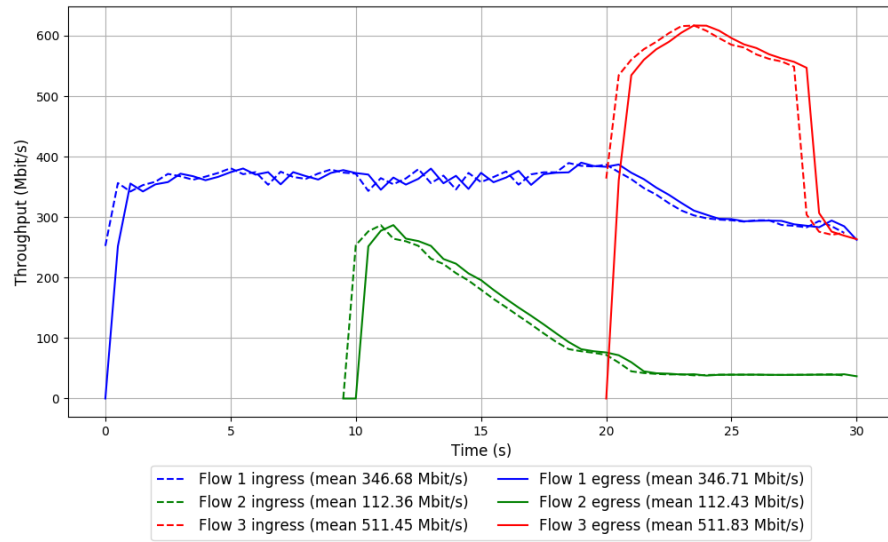
-- Flow 3:

Average throughput: 511.83 Mbit/s

95th percentile per-packet one-way delay: 3.115 ms

Loss rate: 0.12%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-07-18 12:20:14

End at: 2018-07-18 12:20:44

Local clock offset: -2.398 ms

Remote clock offset: 1.613 ms

Below is generated by plot.py at 2018-07-18 15:50:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 568.47 Mbit/s

95th percentile per-packet one-way delay: 1.891 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 280.93 Mbit/s

95th percentile per-packet one-way delay: 1.825 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 252.70 Mbit/s

95th percentile per-packet one-way delay: 1.825 ms

Loss rate: 0.10%

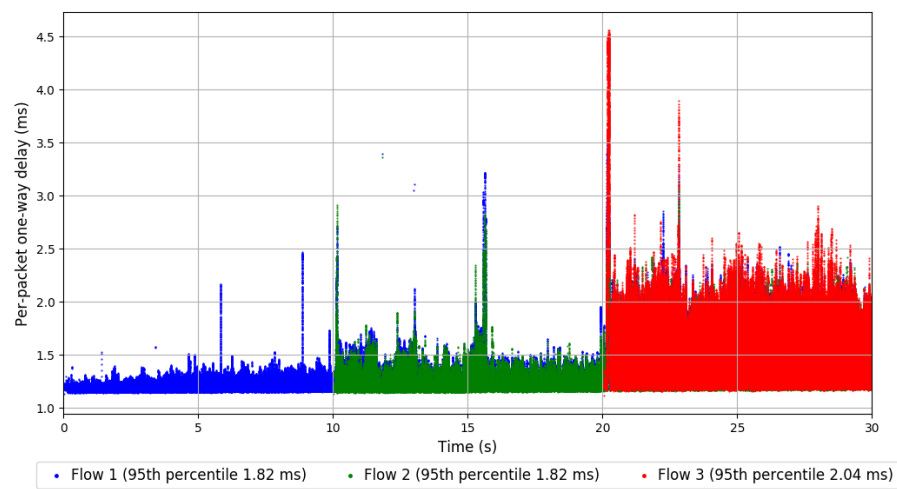
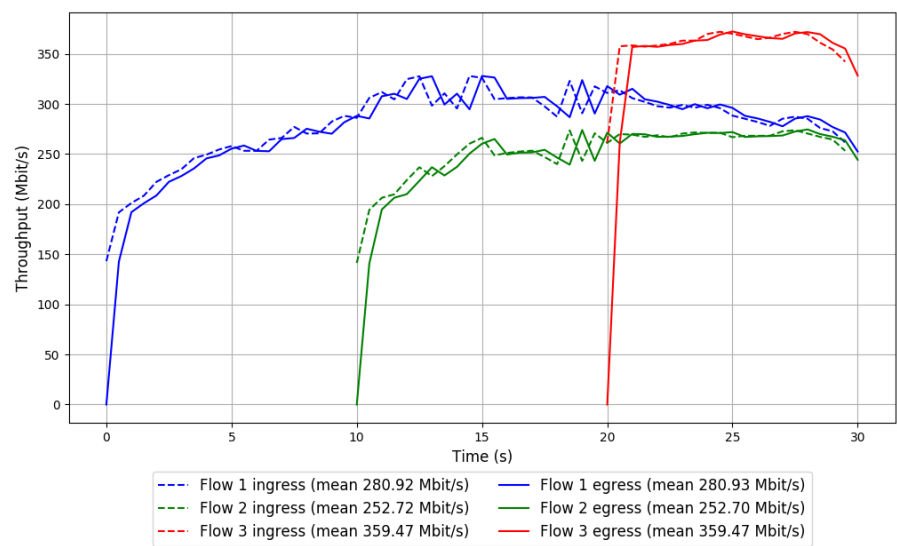
-- Flow 3:

Average throughput: 359.47 Mbit/s

95th percentile per-packet one-way delay: 2.036 ms

Loss rate: 0.20%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-07-18 12:47:08

End at: 2018-07-18 12:47:38

Local clock offset: -1.184 ms

Remote clock offset: 0.959 ms

Below is generated by plot.py at 2018-07-18 15:51:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 610.59 Mbit/s

95th percentile per-packet one-way delay: 2.331 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 293.42 Mbit/s

95th percentile per-packet one-way delay: 1.736 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 254.48 Mbit/s

95th percentile per-packet one-way delay: 2.013 ms

Loss rate: 0.09%

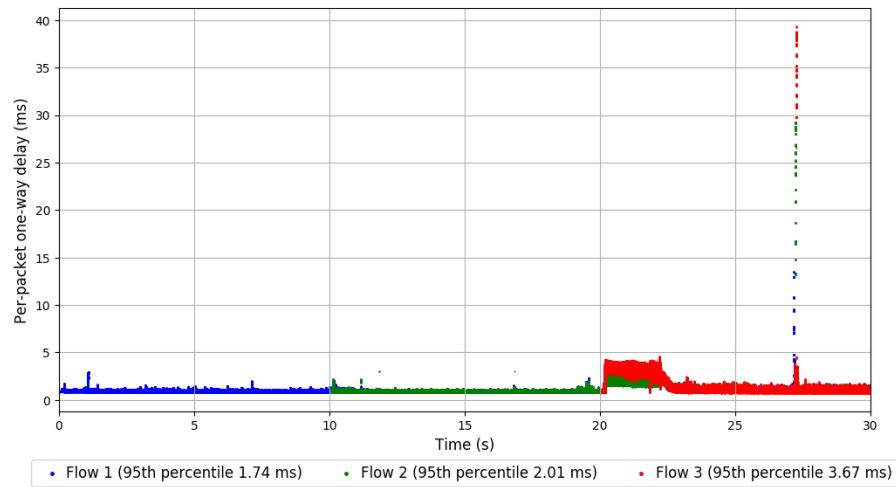
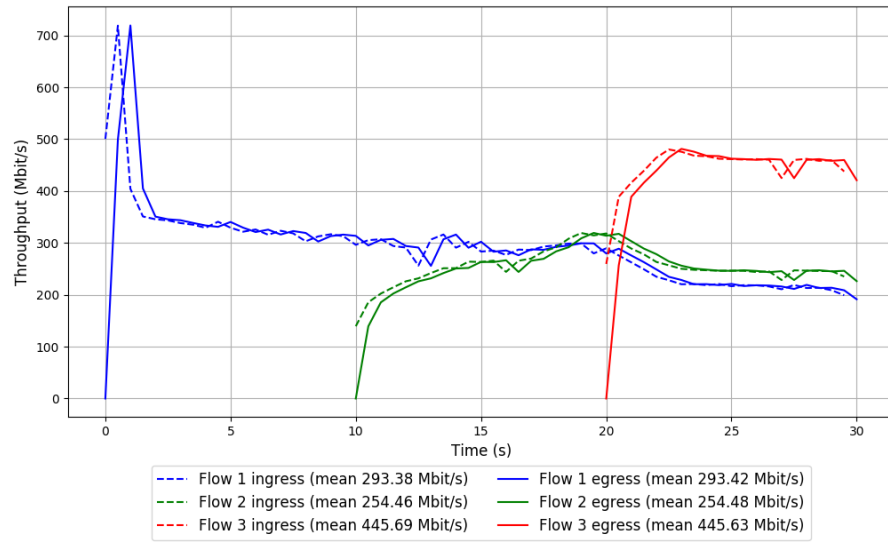
-- Flow 3:

Average throughput: 445.63 Mbit/s

95th percentile per-packet one-way delay: 3.665 ms

Loss rate: 0.20%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-18 13:14:09

End at: 2018-07-18 13:14:39

Local clock offset: 1.988 ms

Remote clock offset: 0.529 ms

Below is generated by plot.py at 2018-07-18 15:52:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 680.96 Mbit/s

95th percentile per-packet one-way delay: 1.565 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 349.87 Mbit/s

95th percentile per-packet one-way delay: 1.487 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 382.61 Mbit/s

95th percentile per-packet one-way delay: 1.643 ms

Loss rate: 0.07%

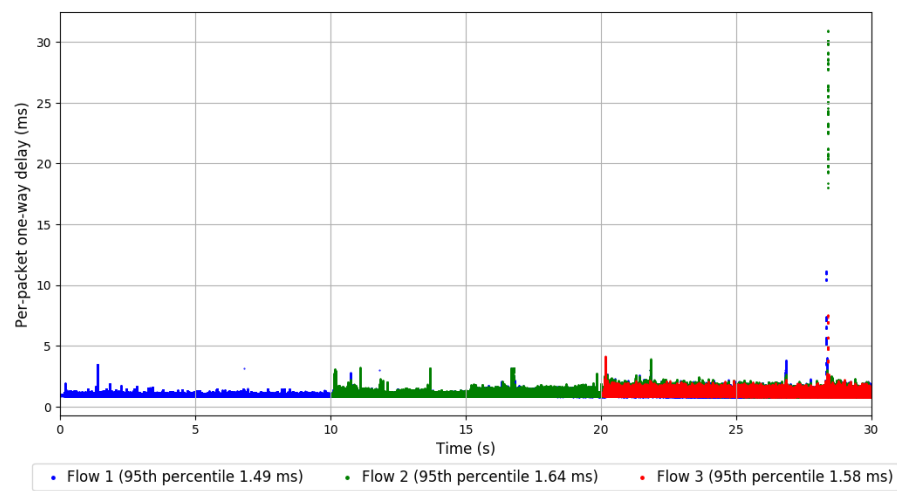
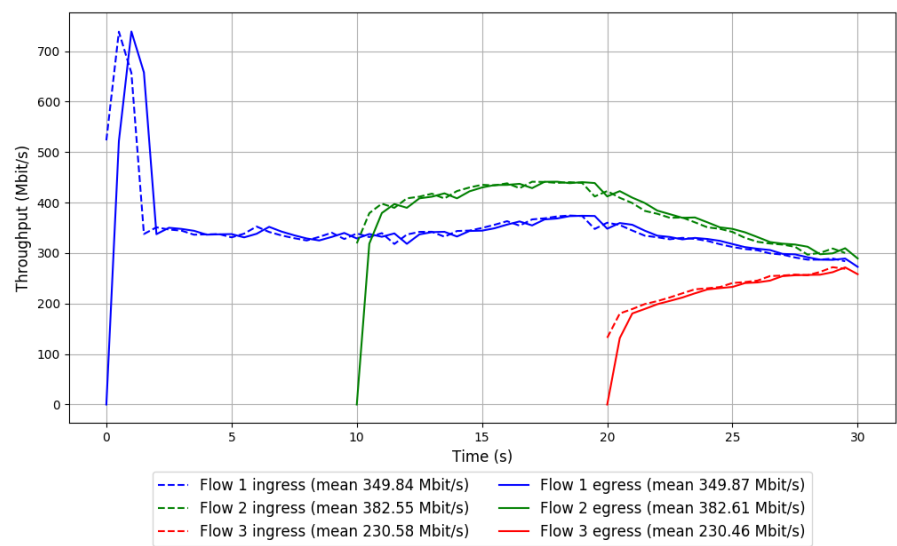
-- Flow 3:

Average throughput: 230.46 Mbit/s

95th percentile per-packet one-way delay: 1.578 ms

Loss rate: 0.26%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-07-18 09:27:57

End at: 2018-07-18 09:28:27

Local clock offset: 3.027 ms

Remote clock offset: 0.347 ms

Below is generated by plot.py at 2018-07-18 15:52:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 297.40 Mbit/s

95th percentile per-packet one-way delay: 3.836 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 170.73 Mbit/s

95th percentile per-packet one-way delay: 4.633 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 137.31 Mbit/s

95th percentile per-packet one-way delay: 2.525 ms

Loss rate: 0.07%

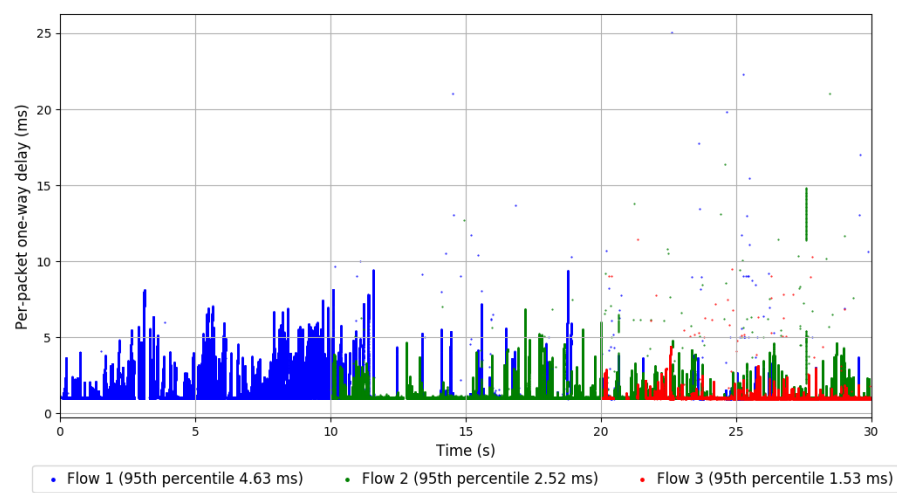
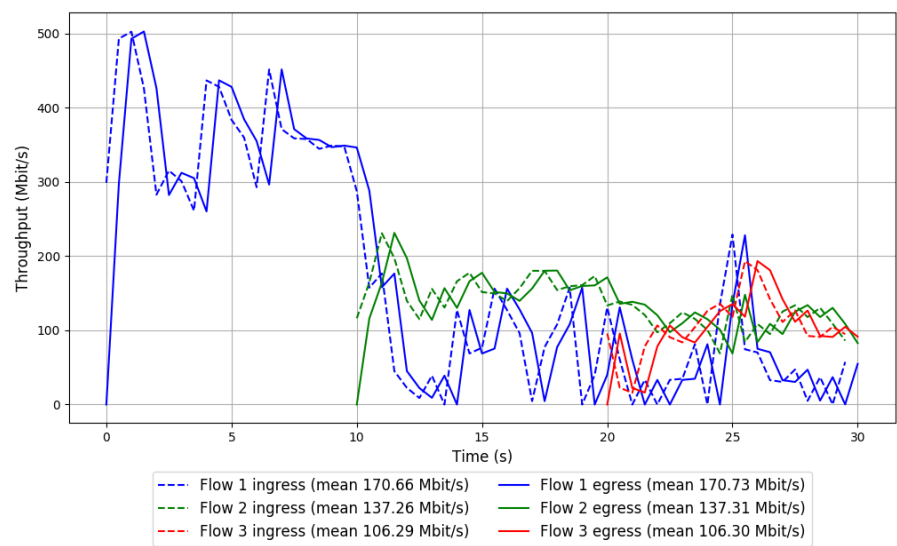
-- Flow 3:

Average throughput: 106.30 Mbit/s

95th percentile per-packet one-way delay: 1.532 ms

Loss rate: 0.18%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-07-18 09:54:50

End at: 2018-07-18 09:55:20

Local clock offset: 3.605 ms

Remote clock offset: 1.125 ms

Below is generated by plot.py at 2018-07-18 15:52:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 357.10 Mbit/s

95th percentile per-packet one-way delay: 2.985 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 235.13 Mbit/s

95th percentile per-packet one-way delay: 3.239 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 134.63 Mbit/s

95th percentile per-packet one-way delay: 2.504 ms

Loss rate: 0.16%

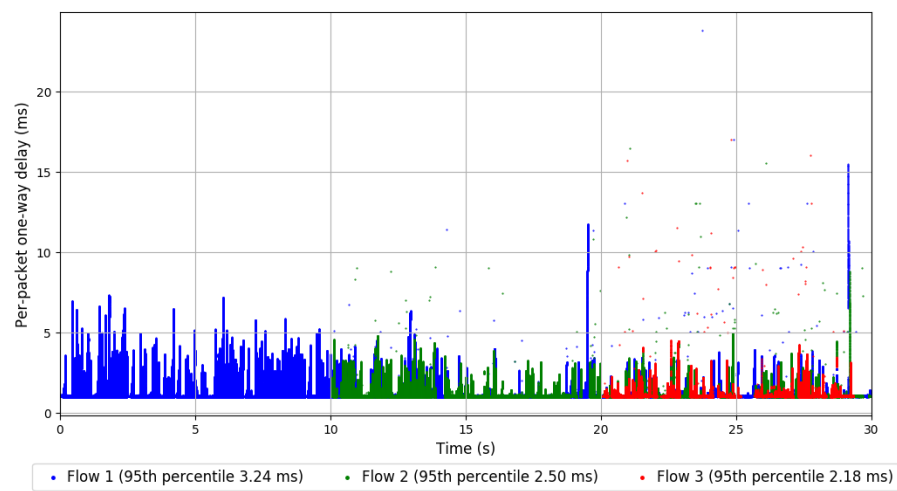
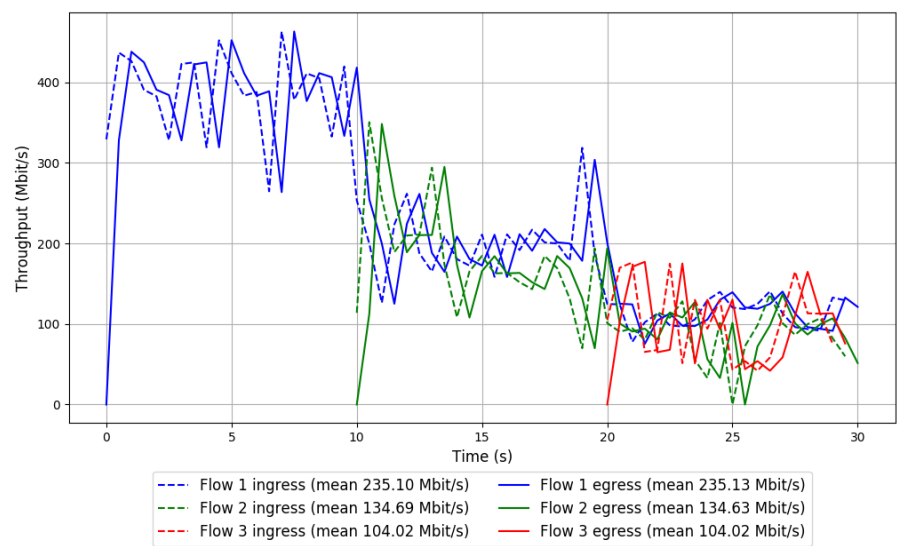
-- Flow 3:

Average throughput: 104.02 Mbit/s

95th percentile per-packet one-way delay: 2.176 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-07-18 10:21:46

End at: 2018-07-18 10:22:16

Local clock offset: 3.332 ms

Remote clock offset: 1.508 ms

Below is generated by plot.py at 2018-07-18 15:52:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 303.80 Mbit/s

95th percentile per-packet one-way delay: 2.531 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 176.29 Mbit/s

95th percentile per-packet one-way delay: 2.788 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 132.37 Mbit/s

95th percentile per-packet one-way delay: 2.006 ms

Loss rate: 0.14%

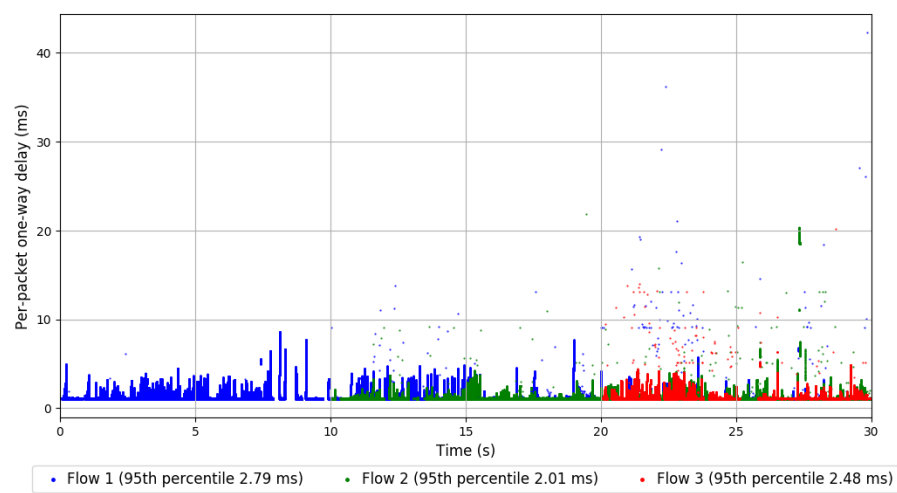
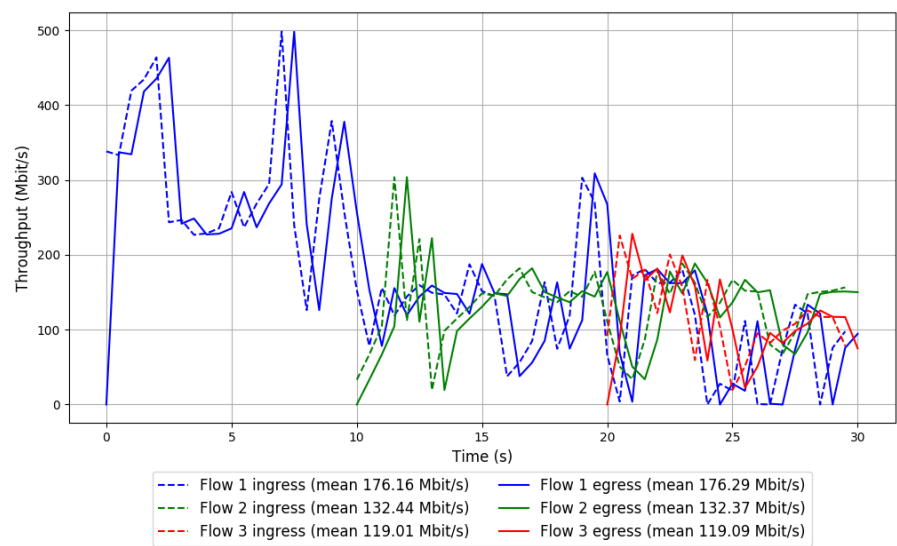
-- Flow 3:

Average throughput: 119.09 Mbit/s

95th percentile per-packet one-way delay: 2.479 ms

Loss rate: 0.13%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-07-18 10:48:36

End at: 2018-07-18 10:49:06

Local clock offset: 0.861 ms

Remote clock offset: 1.895 ms

Below is generated by plot.py at 2018-07-18 15:52:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 352.24 Mbit/s

95th percentile per-packet one-way delay: 3.279 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 222.83 Mbit/s

95th percentile per-packet one-way delay: 3.659 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 152.00 Mbit/s

95th percentile per-packet one-way delay: 2.780 ms

Loss rate: 0.06%

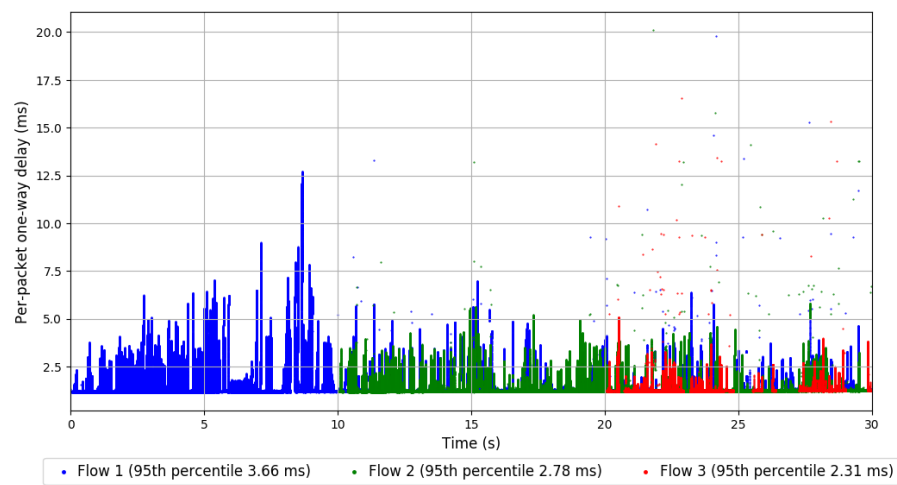
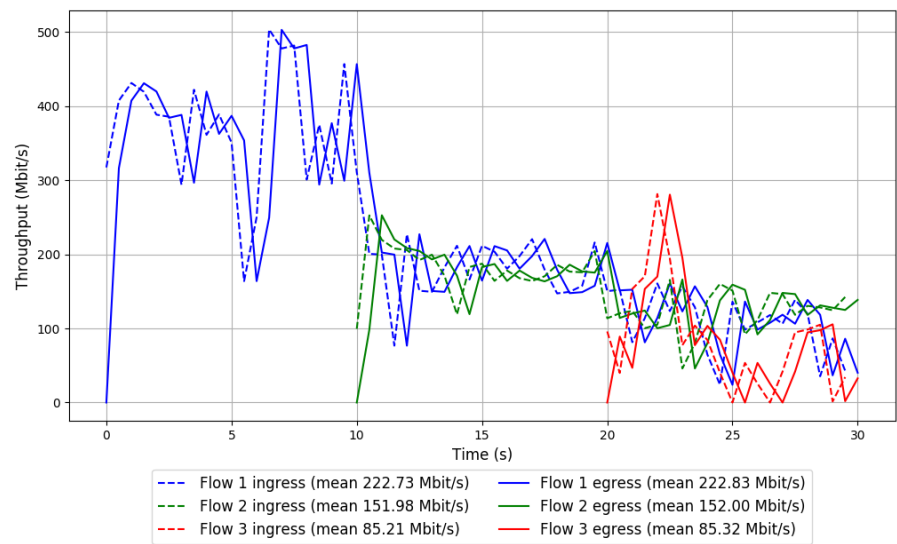
-- Flow 3:

Average throughput: 85.32 Mbit/s

95th percentile per-packet one-way delay: 2.310 ms

Loss rate: 0.09%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-07-18 11:15:30

End at: 2018-07-18 11:16:00

Local clock offset: -0.48 ms

Remote clock offset: 2.156 ms

Below is generated by plot.py at 2018-07-18 15:53:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 341.04 Mbit/s

95th percentile per-packet one-way delay: 3.917 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 211.99 Mbit/s

95th percentile per-packet one-way delay: 4.648 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 132.85 Mbit/s

95th percentile per-packet one-way delay: 2.251 ms

Loss rate: 0.15%

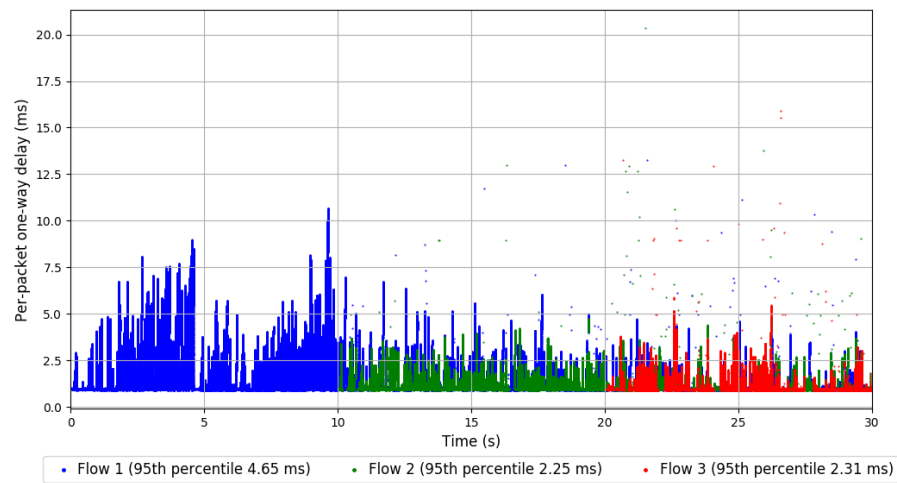
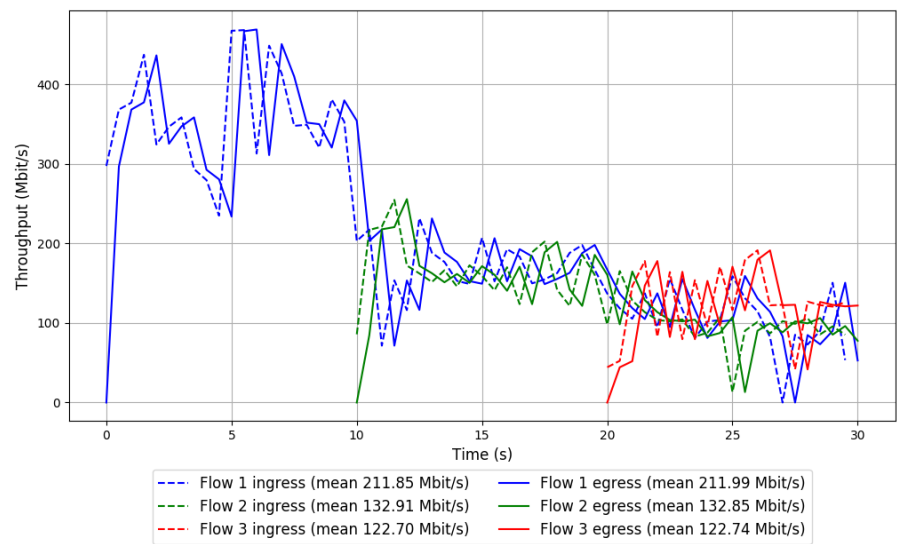
-- Flow 3:

Average throughput: 122.74 Mbit/s

95th percentile per-packet one-way delay: 2.314 ms

Loss rate: 0.17%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-07-18 11:42:23

End at: 2018-07-18 11:42:53

Local clock offset: -0.296 ms

Remote clock offset: 2.099 ms

Below is generated by plot.py at 2018-07-18 15:54:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 359.56 Mbit/s

95th percentile per-packet one-way delay: 4.046 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 220.28 Mbit/s

95th percentile per-packet one-way delay: 4.761 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 153.44 Mbit/s

95th percentile per-packet one-way delay: 2.541 ms

Loss rate: 0.06%

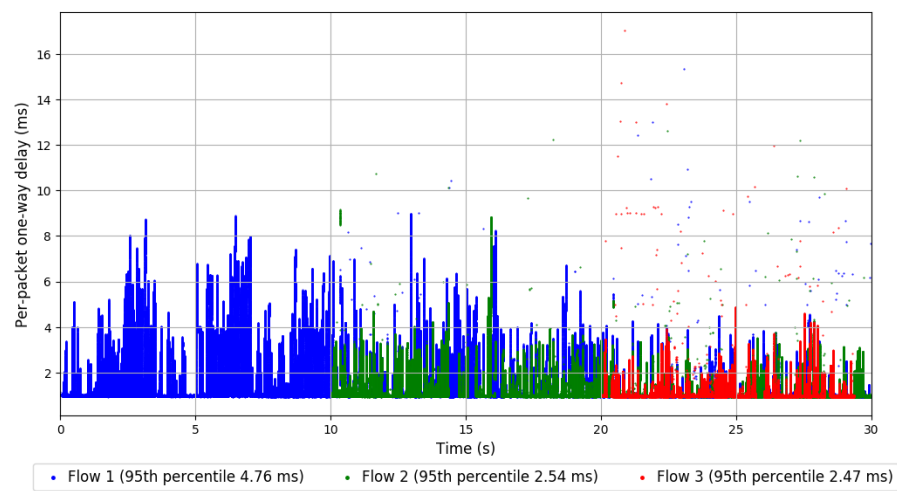
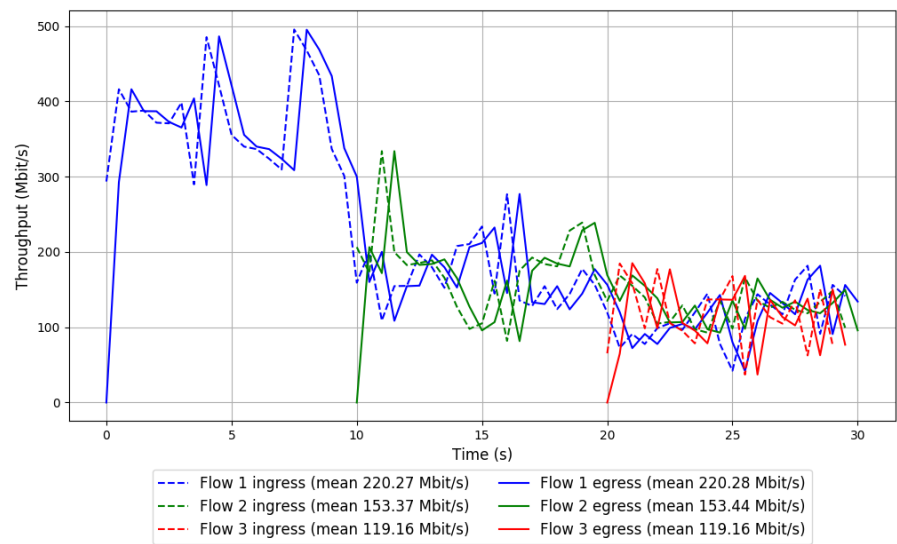
-- Flow 3:

Average throughput: 119.16 Mbit/s

95th percentile per-packet one-way delay: 2.467 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link

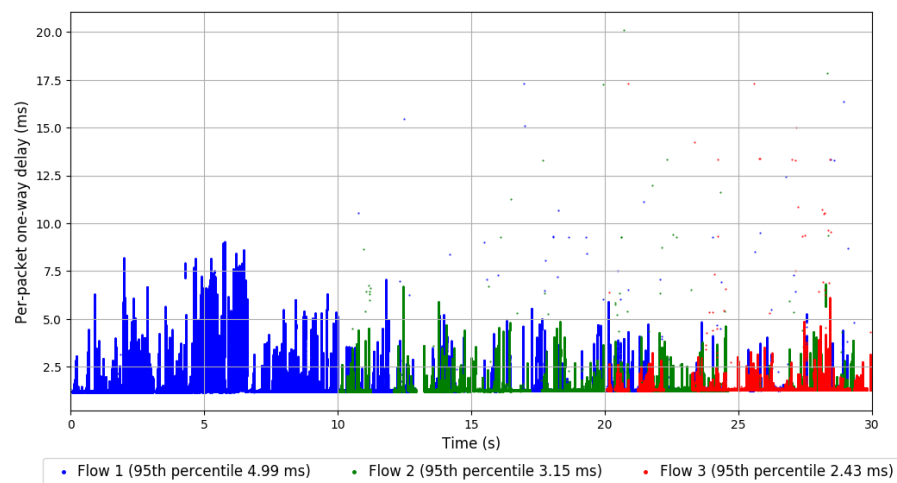
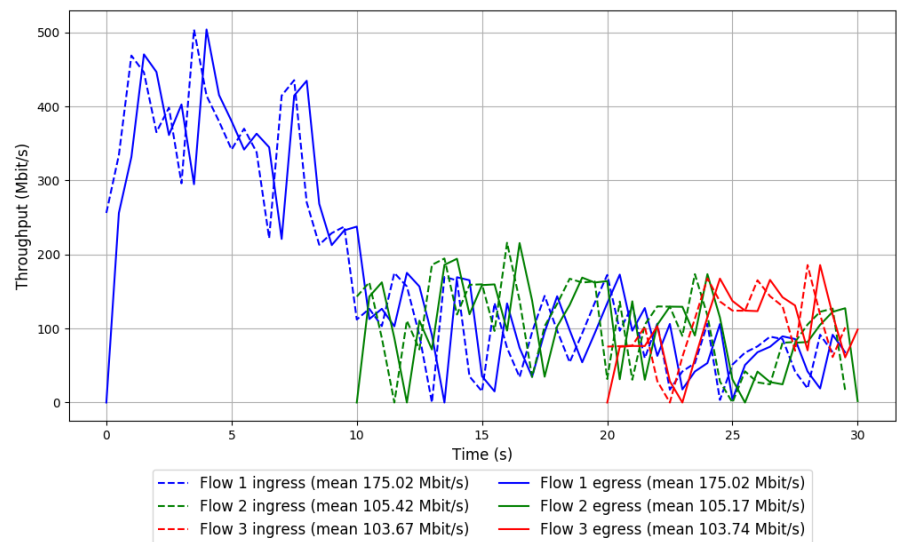


Run 7: Statistics of Verus

Start at: 2018-07-18 12:09:23
End at: 2018-07-18 12:09:53
Local clock offset: -0.407 ms
Remote clock offset: 1.866 ms

Below is generated by plot.py at 2018-07-18 15:54:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 276.74 Mbit/s
95th percentile per-packet one-way delay: 4.335 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 175.02 Mbit/s
95th percentile per-packet one-way delay: 4.986 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 105.17 Mbit/s
95th percentile per-packet one-way delay: 3.151 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 103.74 Mbit/s
95th percentile per-packet one-way delay: 2.427 ms
Loss rate: 0.15%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-07-18 12:36:16

End at: 2018-07-18 12:36:46

Local clock offset: -3.62 ms

Remote clock offset: 1.268 ms

Below is generated by plot.py at 2018-07-18 15:54:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 317.79 Mbit/s

95th percentile per-packet one-way delay: 3.309 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 182.48 Mbit/s

95th percentile per-packet one-way delay: 4.060 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 154.91 Mbit/s

95th percentile per-packet one-way delay: 1.738 ms

Loss rate: 0.08%

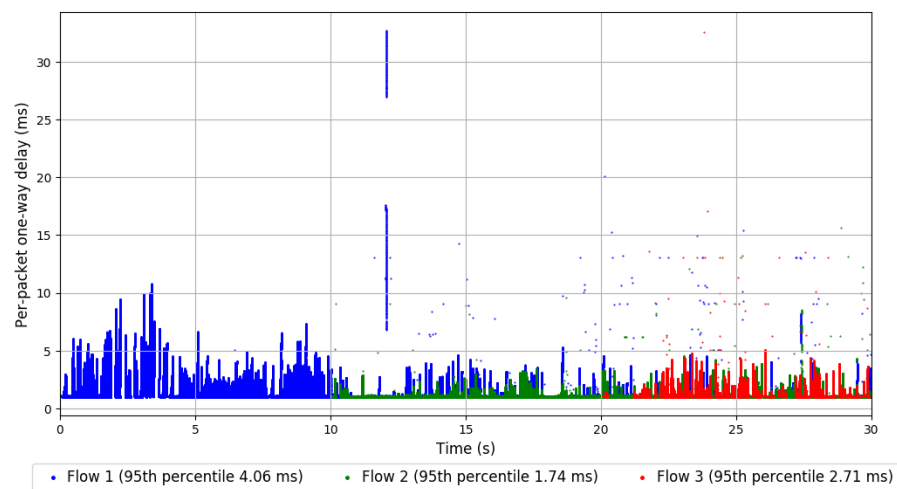
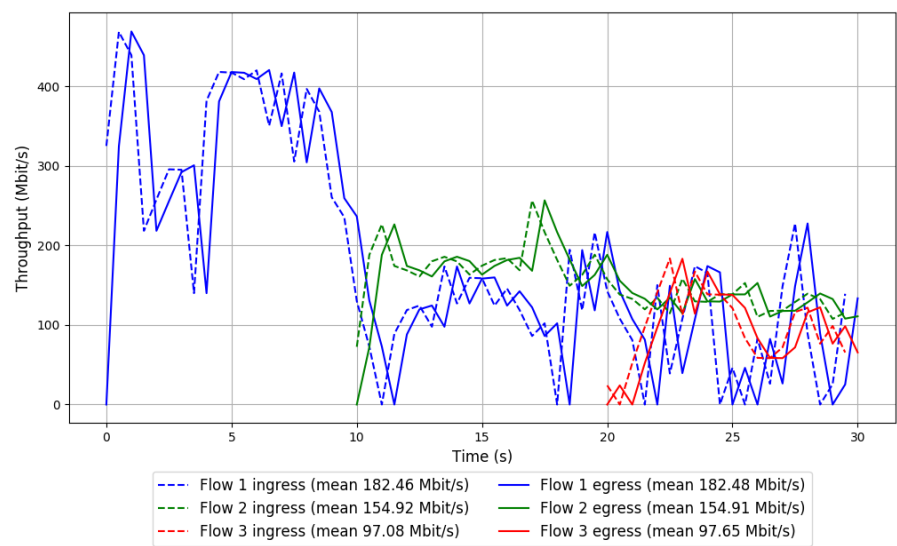
-- Flow 3:

Average throughput: 97.65 Mbit/s

95th percentile per-packet one-way delay: 2.714 ms

Loss rate: 0.02%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-07-18 13:03:16

End at: 2018-07-18 13:03:46

Local clock offset: 0.372 ms

Remote clock offset: 0.642 ms

Below is generated by plot.py at 2018-07-18 15:54:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 316.11 Mbit/s

95th percentile per-packet one-way delay: 3.169 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 182.11 Mbit/s

95th percentile per-packet one-way delay: 4.084 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 149.64 Mbit/s

95th percentile per-packet one-way delay: 1.558 ms

Loss rate: 0.06%

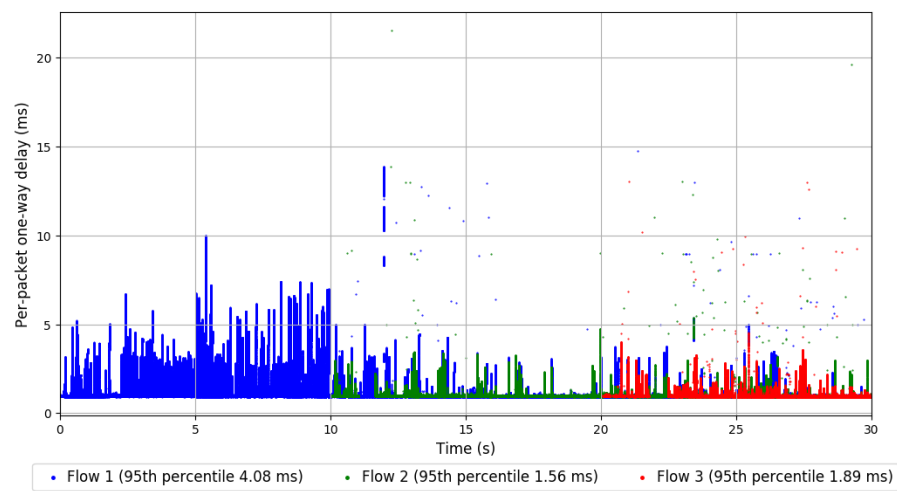
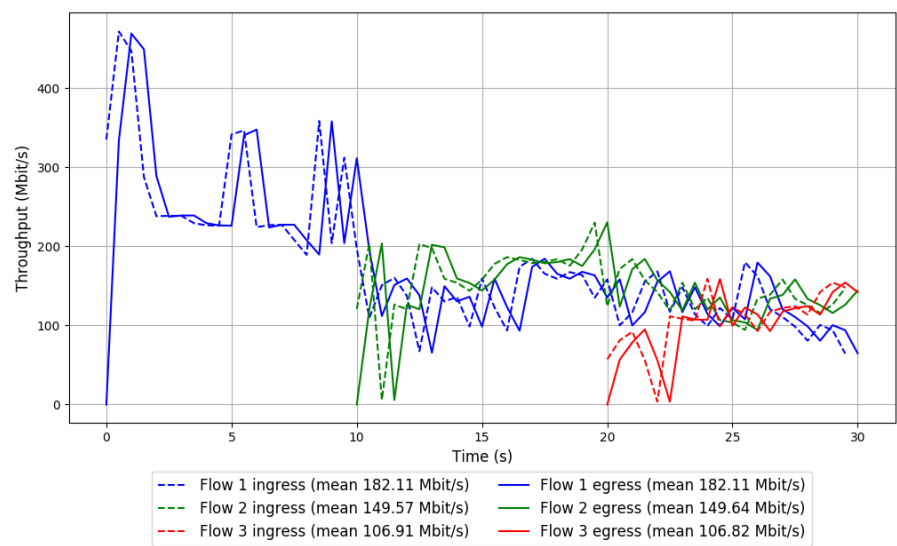
-- Flow 3:

Average throughput: 106.82 Mbit/s

95th percentile per-packet one-way delay: 1.890 ms

Loss rate: 0.29%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-07-18 13:30:11

End at: 2018-07-18 13:30:41

Local clock offset: 3.883 ms

Remote clock offset: 0.271 ms

Below is generated by plot.py at 2018-07-18 15:55:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 311.41 Mbit/s

95th percentile per-packet one-way delay: 4.084 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 175.84 Mbit/s

95th percentile per-packet one-way delay: 4.636 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 140.62 Mbit/s

95th percentile per-packet one-way delay: 2.899 ms

Loss rate: 0.00%

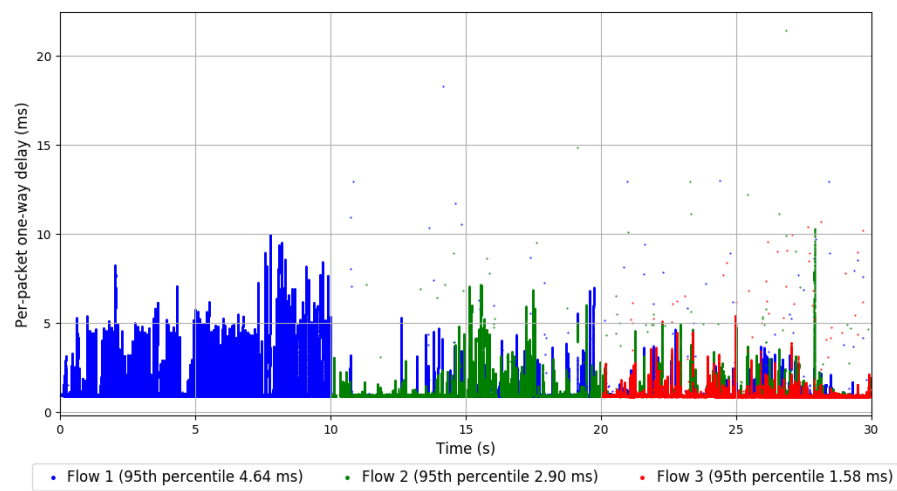
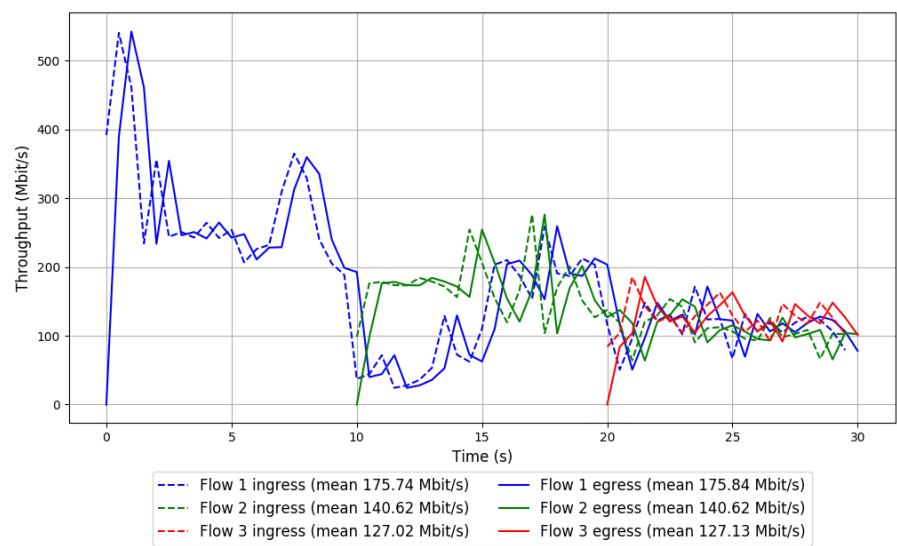
-- Flow 3:

Average throughput: 127.13 Mbit/s

95th percentile per-packet one-way delay: 1.583 ms

Loss rate: 0.06%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-07-18 09:15:11

End at: 2018-07-18 09:15:41

Local clock offset: -0.429 ms

Remote clock offset: 0.119 ms

Below is generated by plot.py at 2018-07-18 15:56:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 334.79 Mbit/s

95th percentile per-packet one-way delay: 0.707 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 231.78 Mbit/s

95th percentile per-packet one-way delay: 0.710 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 126.12 Mbit/s

95th percentile per-packet one-way delay: 0.643 ms

Loss rate: 0.10%

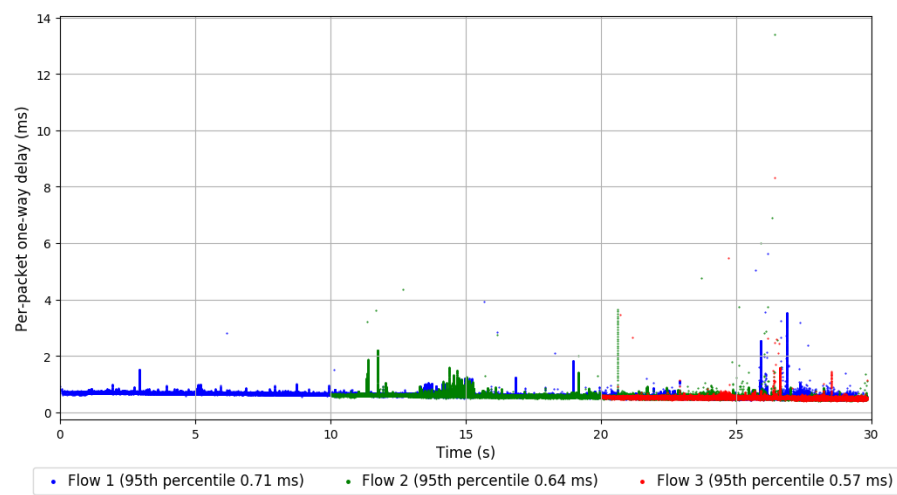
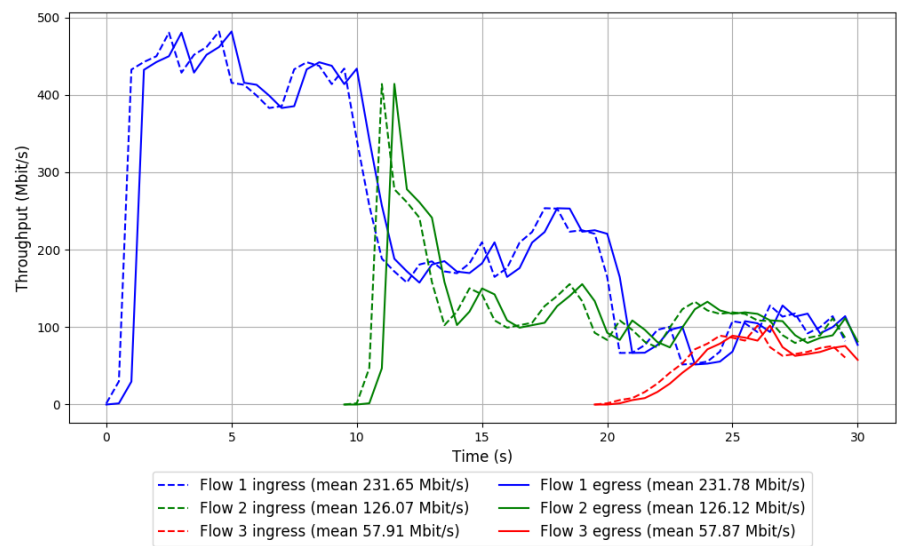
-- Flow 3:

Average throughput: 57.87 Mbit/s

95th percentile per-packet one-way delay: 0.570 ms

Loss rate: 0.27%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-07-18 09:42:08

End at: 2018-07-18 09:42:38

Local clock offset: 3.83 ms

Remote clock offset: 0.812 ms

Below is generated by plot.py at 2018-07-18 15:57:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 345.70 Mbit/s

95th percentile per-packet one-way delay: 1.120 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 277.14 Mbit/s

95th percentile per-packet one-way delay: 1.109 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 79.65 Mbit/s

95th percentile per-packet one-way delay: 1.131 ms

Loss rate: 0.06%

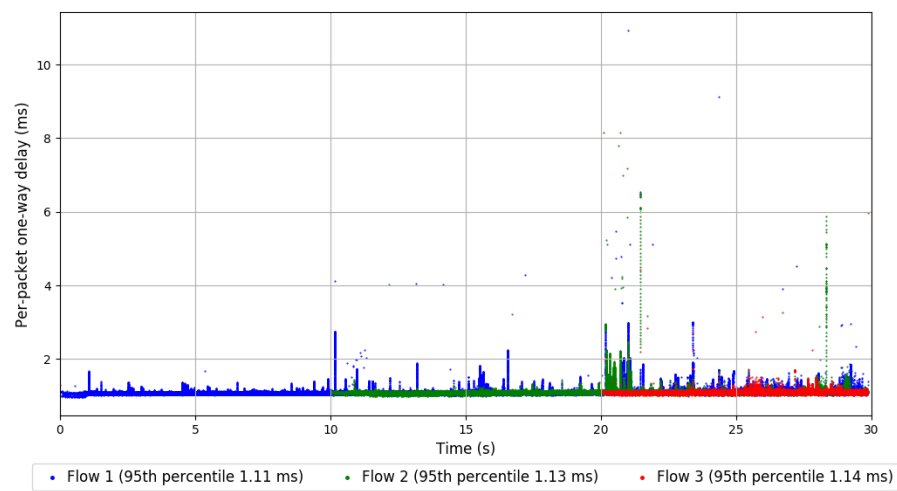
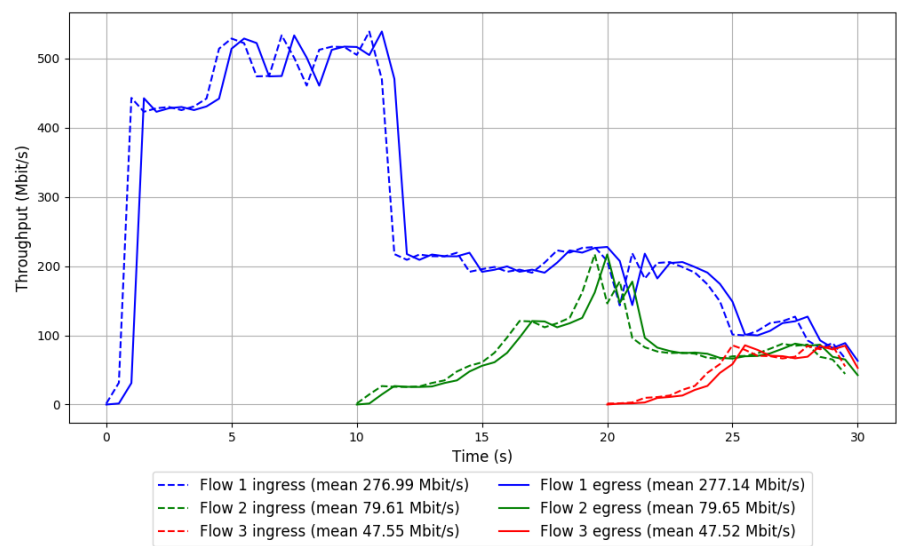
-- Flow 3:

Average throughput: 47.52 Mbit/s

95th percentile per-packet one-way delay: 1.140 ms

Loss rate: 0.25%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-07-18 10:09:05

End at: 2018-07-18 10:09:35

Local clock offset: 3.728 ms

Remote clock offset: 1.328 ms

Below is generated by plot.py at 2018-07-18 15:57:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 338.54 Mbit/s

95th percentile per-packet one-way delay: 1.115 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 216.28 Mbit/s

95th percentile per-packet one-way delay: 1.113 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 145.24 Mbit/s

95th percentile per-packet one-way delay: 1.125 ms

Loss rate: 0.06%

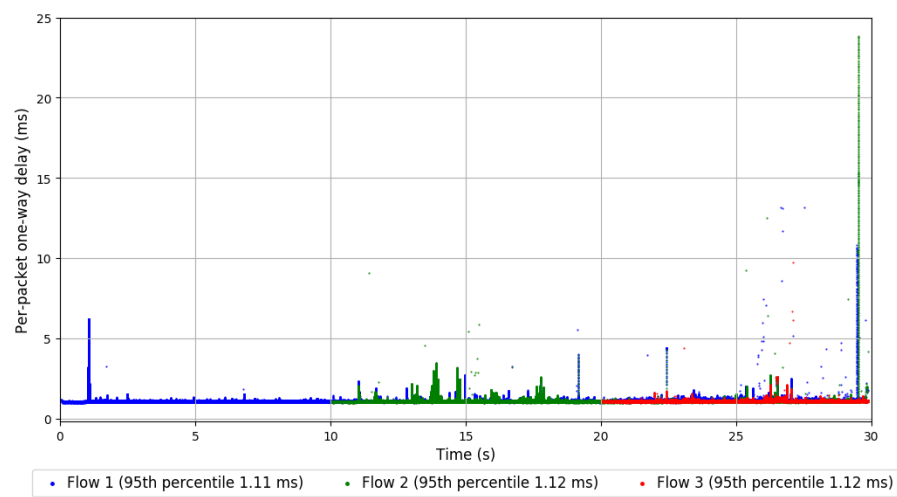
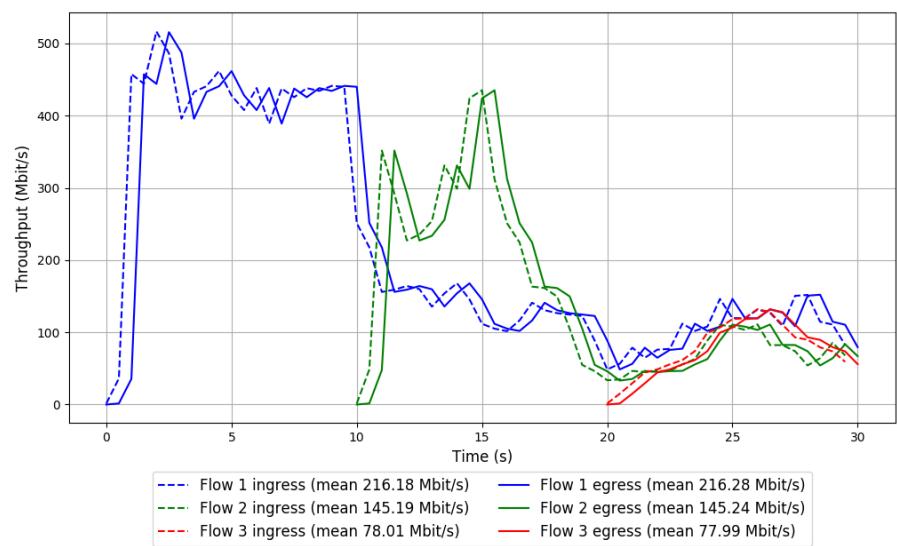
-- Flow 3:

Average throughput: 77.99 Mbit/s

95th percentile per-packet one-way delay: 1.116 ms

Loss rate: 0.22%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-07-18 10:35:55

End at: 2018-07-18 10:36:25

Local clock offset: 3.383 ms

Remote clock offset: 1.724 ms

Below is generated by plot.py at 2018-07-18 15:57:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 319.00 Mbit/s

95th percentile per-packet one-way delay: 1.091 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 222.58 Mbit/s

95th percentile per-packet one-way delay: 1.082 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 125.27 Mbit/s

95th percentile per-packet one-way delay: 1.128 ms

Loss rate: 0.10%

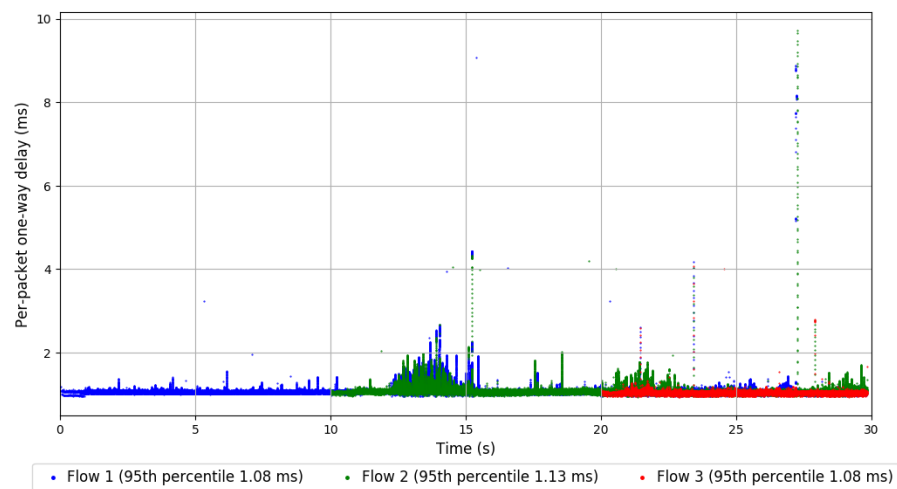
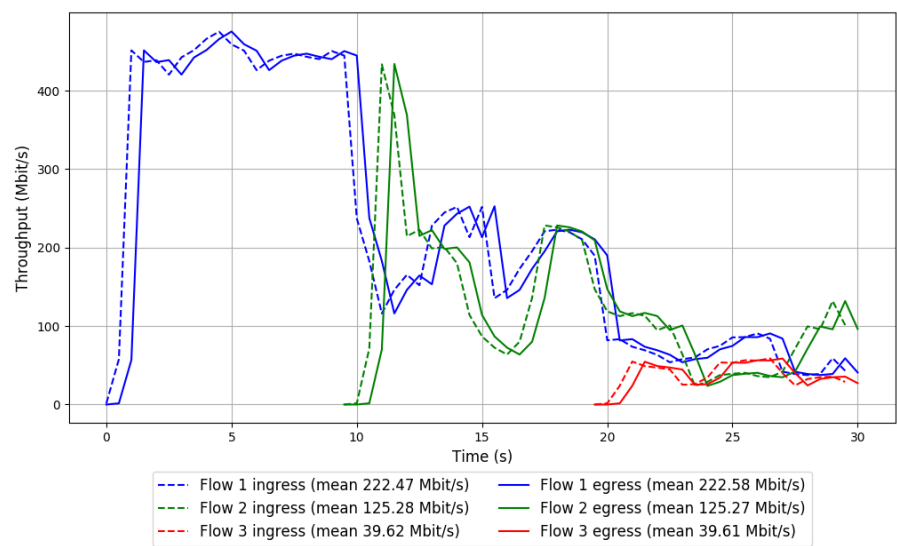
-- Flow 3:

Average throughput: 39.61 Mbit/s

95th percentile per-packet one-way delay: 1.076 ms

Loss rate: 0.22%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-07-18 11:02:48

End at: 2018-07-18 11:03:18

Local clock offset: -0.633 ms

Remote clock offset: 2.06 ms

Below is generated by plot.py at 2018-07-18 15:58:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 351.29 Mbit/s

95th percentile per-packet one-way delay: 1.018 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 252.30 Mbit/s

95th percentile per-packet one-way delay: 1.014 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 108.74 Mbit/s

95th percentile per-packet one-way delay: 1.011 ms

Loss rate: 0.02%

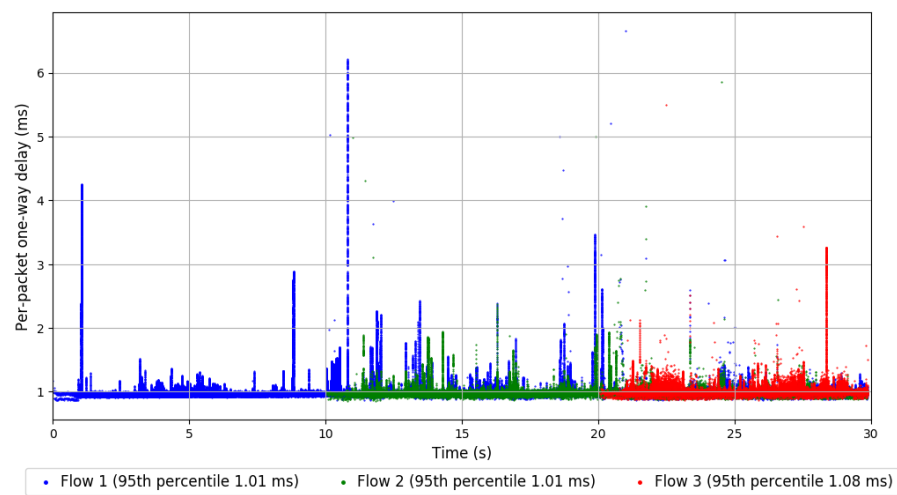
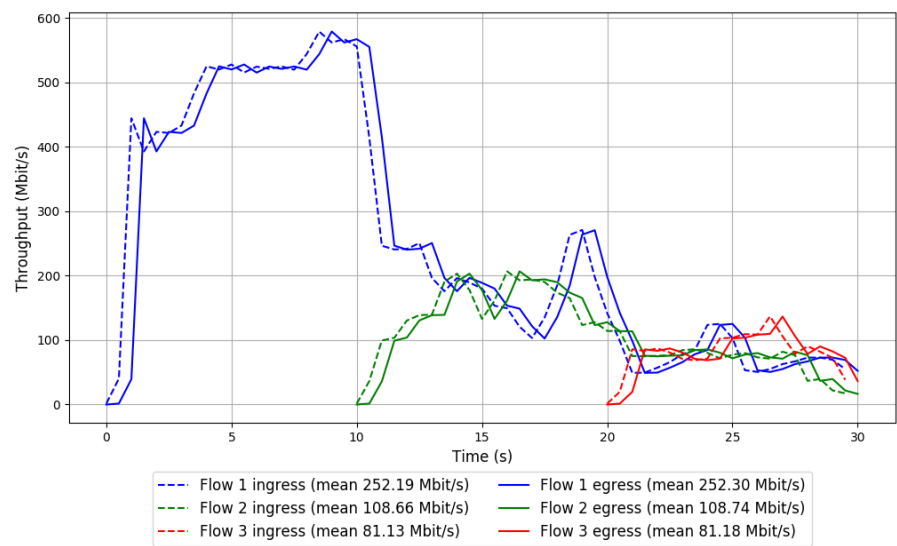
-- Flow 3:

Average throughput: 81.18 Mbit/s

95th percentile per-packet one-way delay: 1.085 ms

Loss rate: 0.13%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-07-18 11:29:45

End at: 2018-07-18 11:30:15

Local clock offset: -0.331 ms

Remote clock offset: 2.193 ms

Below is generated by plot.py at 2018-07-18 15:58:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 307.85 Mbit/s

95th percentile per-packet one-way delay: 1.032 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 210.38 Mbit/s

95th percentile per-packet one-way delay: 1.010 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 97.07 Mbit/s

95th percentile per-packet one-way delay: 1.079 ms

Loss rate: 0.09%

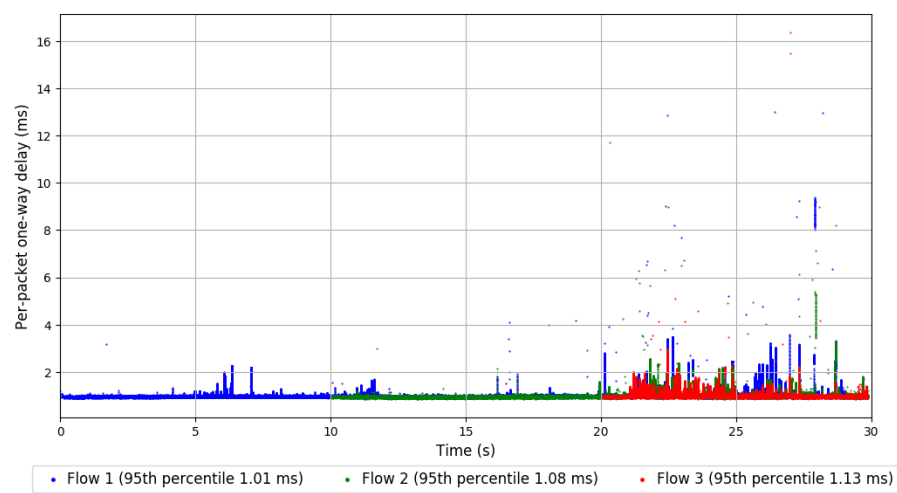
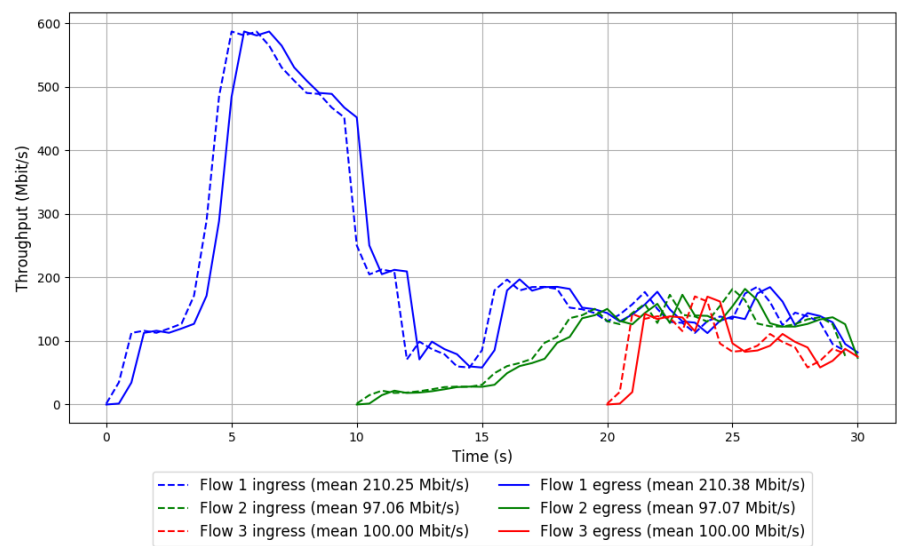
-- Flow 3:

Average throughput: 100.00 Mbit/s

95th percentile per-packet one-way delay: 1.133 ms

Loss rate: 0.26%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-07-18 11:56:43

End at: 2018-07-18 11:57:13

Local clock offset: -0.014 ms

Remote clock offset: 2.056 ms

Below is generated by plot.py at 2018-07-18 15:58:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 327.54 Mbit/s

95th percentile per-packet one-way delay: 1.128 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 263.28 Mbit/s

95th percentile per-packet one-way delay: 1.126 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 67.71 Mbit/s

95th percentile per-packet one-way delay: 1.131 ms

Loss rate: 0.09%

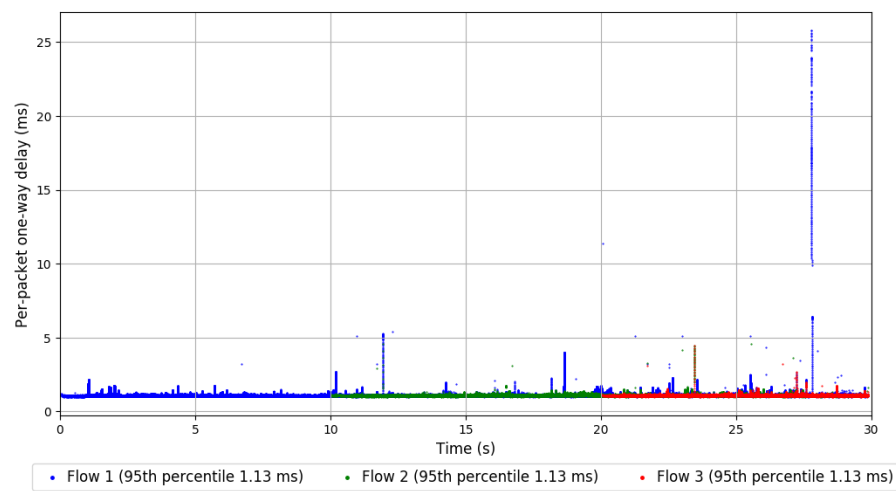
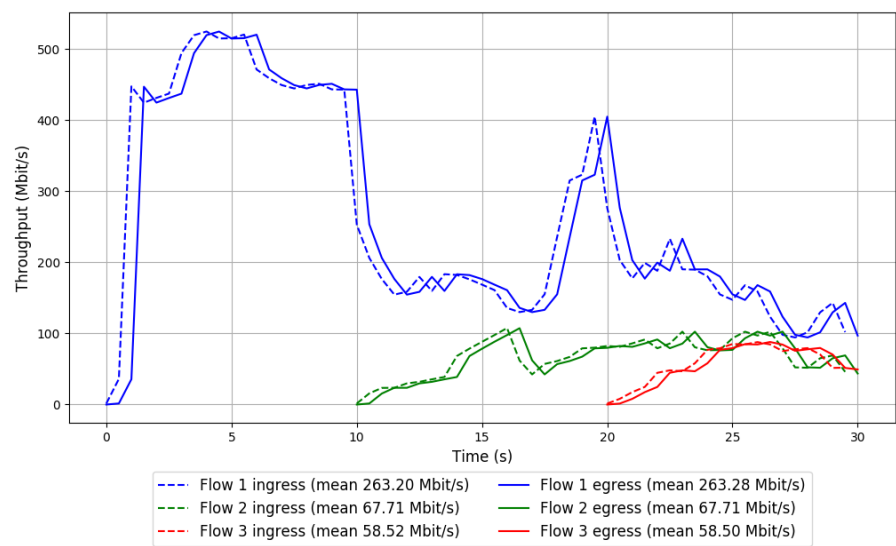
-- Flow 3:

Average throughput: 58.50 Mbit/s

95th percentile per-packet one-way delay: 1.131 ms

Loss rate: 0.23%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-18 12:23:34

End at: 2018-07-18 12:24:04

Local clock offset: -2.769 ms

Remote clock offset: 1.545 ms

Below is generated by plot.py at 2018-07-18 15:58:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 337.45 Mbit/s

95th percentile per-packet one-way delay: 1.135 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 230.21 Mbit/s

95th percentile per-packet one-way delay: 1.134 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 127.12 Mbit/s

95th percentile per-packet one-way delay: 1.132 ms

Loss rate: 0.07%

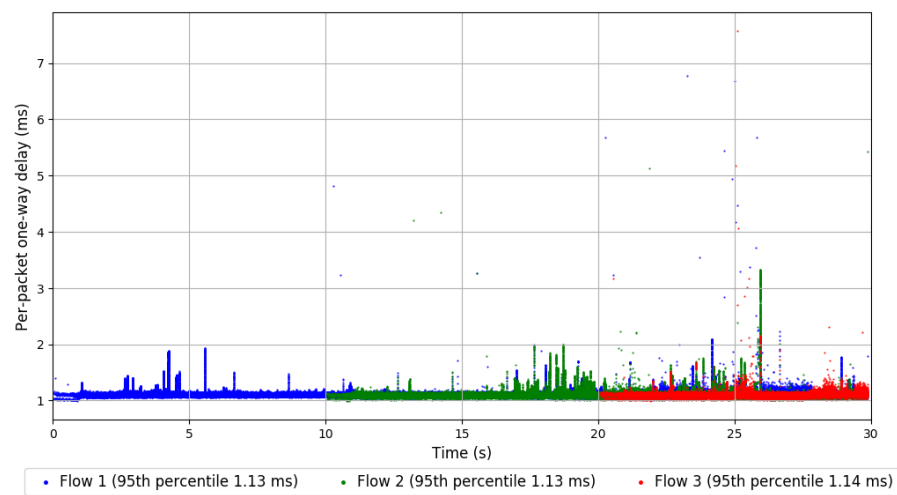
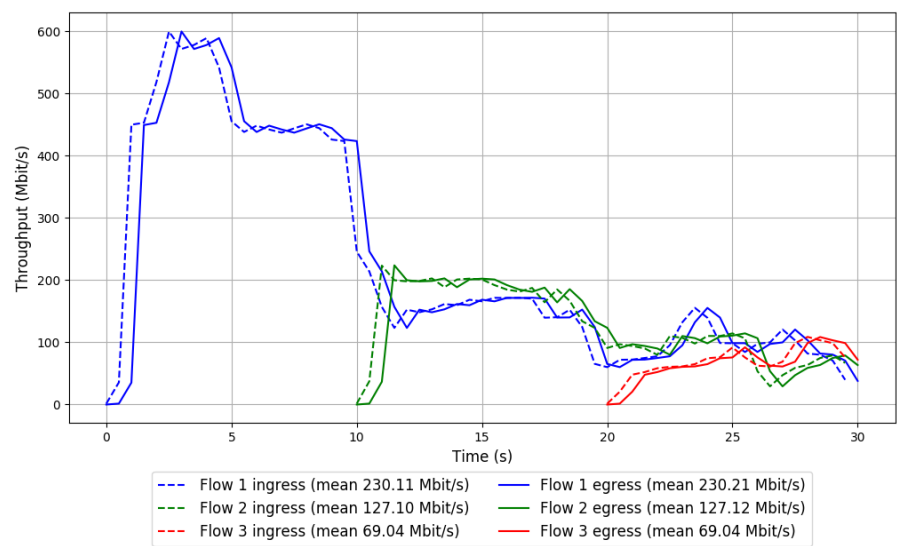
-- Flow 3:

Average throughput: 69.04 Mbit/s

95th percentile per-packet one-way delay: 1.144 ms

Loss rate: 0.29%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-18 12:50:31

End at: 2018-07-18 12:51:01

Local clock offset: -0.655 ms

Remote clock offset: 0.898 ms

Below is generated by plot.py at 2018-07-18 15:59:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 355.27 Mbit/s

95th percentile per-packet one-way delay: 0.838 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 248.63 Mbit/s

95th percentile per-packet one-way delay: 0.840 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 116.28 Mbit/s

95th percentile per-packet one-way delay: 0.832 ms

Loss rate: 0.15%

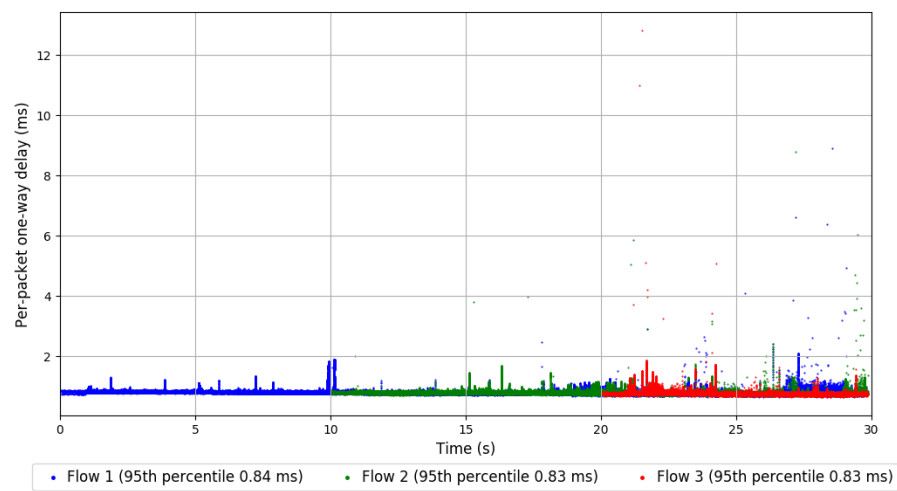
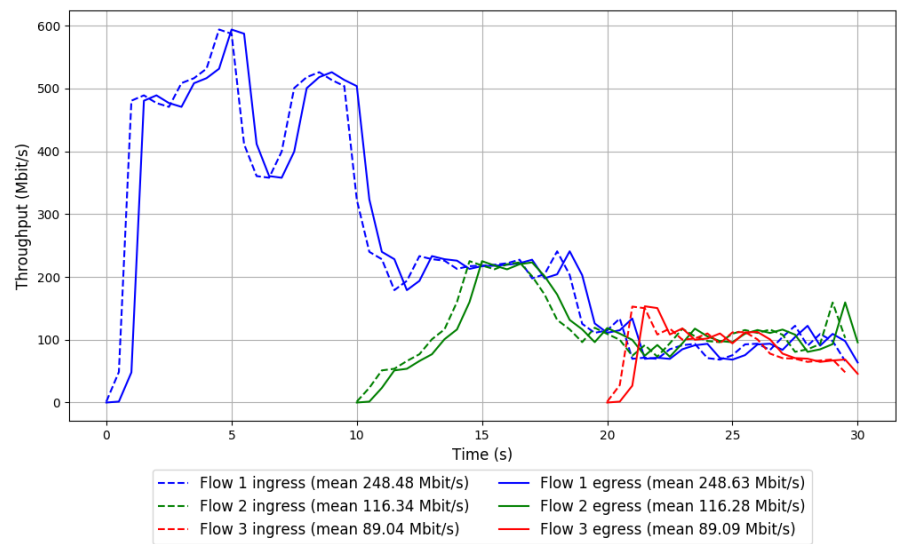
-- Flow 3:

Average throughput: 89.09 Mbit/s

95th percentile per-packet one-way delay: 0.829 ms

Loss rate: 0.15%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-18 13:17:36

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

Local clock offset: 2.613 ms

Remote clock offset: 0.461 ms

Below is generated by plot.py at 2018-07-18 15:59:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 311.63 Mbit/s

95th percentile per-packet one-way delay: 0.976 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 240.24 Mbit/s

95th percentile per-packet one-way delay: 0.979 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 57.12 Mbit/s

95th percentile per-packet one-way delay: 0.932 ms

Loss rate: 0.12%

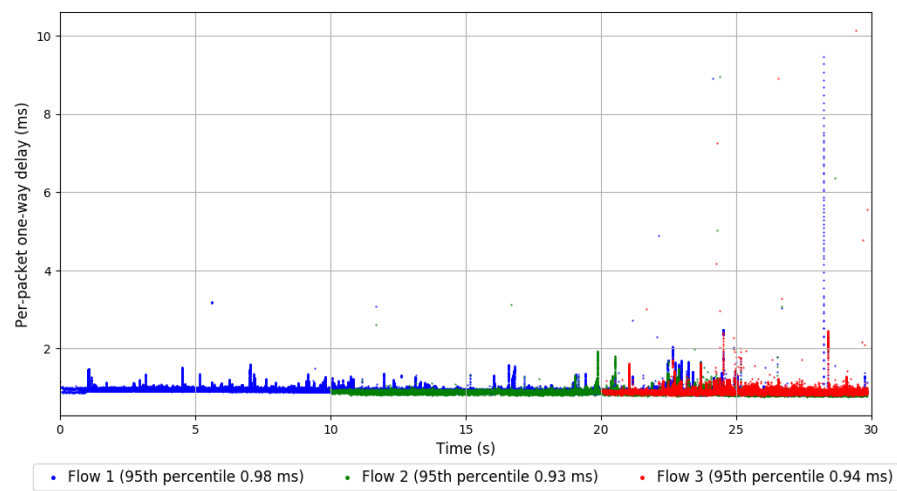
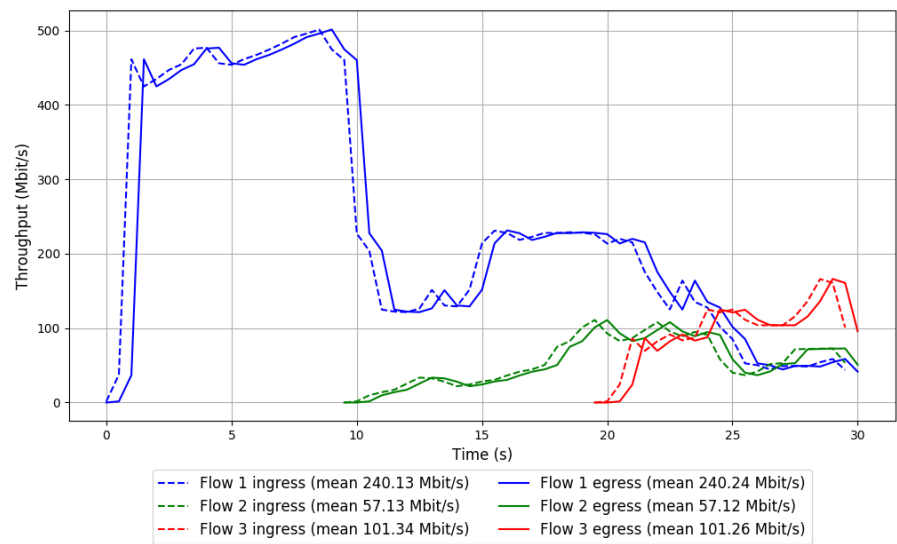
-- Flow 3:

Average throughput: 101.26 Mbit/s

95th percentile per-packet one-way delay: 0.943 ms

Loss rate: 0.27%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-07-18 09:29:28

End at: 2018-07-18 09:29:58

Local clock offset: 3.225 ms

Remote clock offset: 0.412 ms

Below is generated by plot.py at 2018-07-18 15:59:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.46 Mbit/s

95th percentile per-packet one-way delay: 1.054 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 1.061 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 1.046 ms

Loss rate: 0.17%

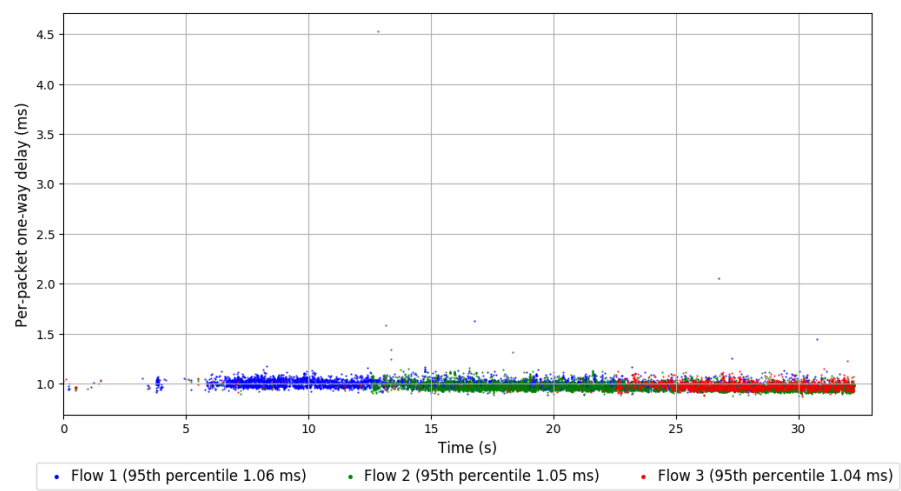
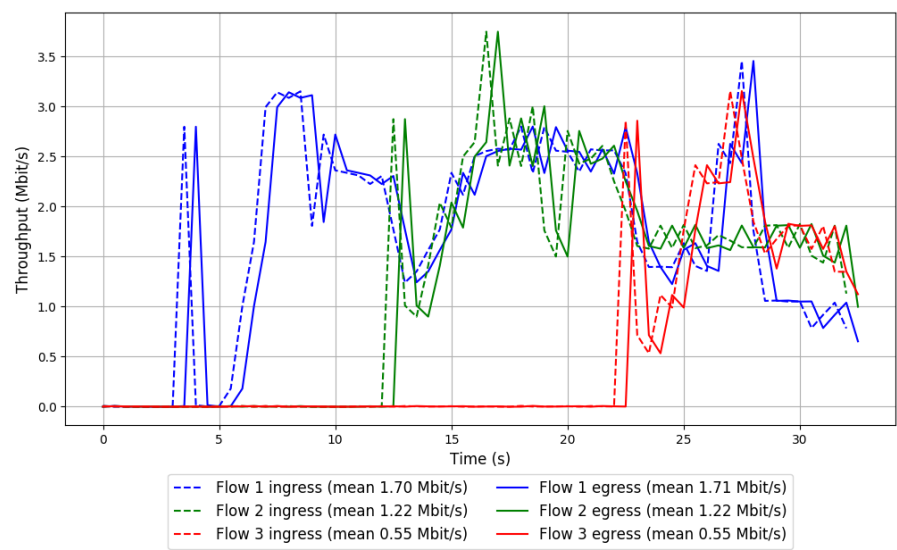
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 1.041 ms

Loss rate: 0.63%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-07-18 09:56:24

End at: 2018-07-18 09:56:54

Local clock offset: 3.599 ms

Remote clock offset: 1.104 ms

Below is generated by plot.py at 2018-07-18 15:59:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.44 Mbit/s

95th percentile per-packet one-way delay: 1.132 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.70 Mbit/s

95th percentile per-packet one-way delay: 1.109 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 1.145 ms

Loss rate: 0.00%

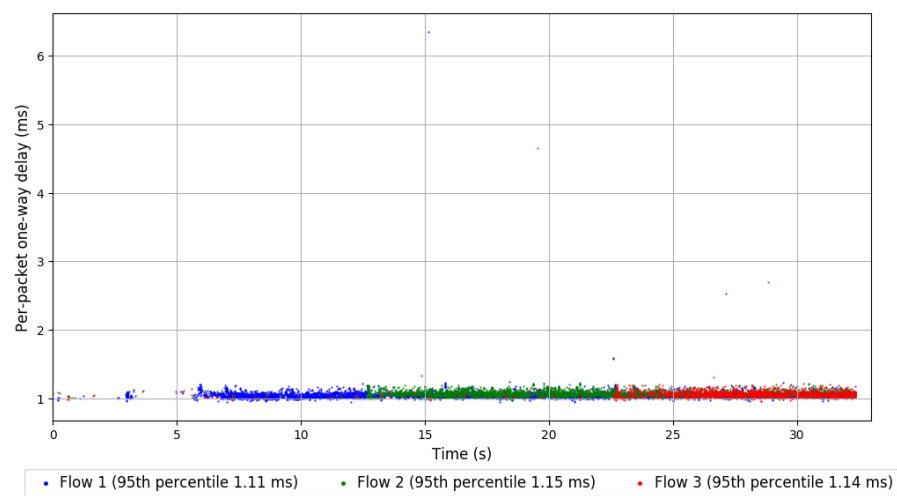
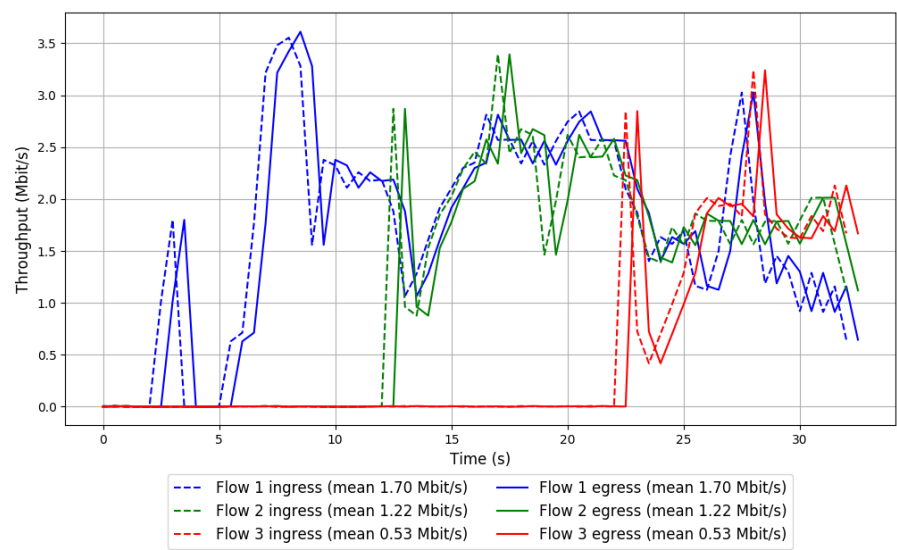
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 1.136 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-07-18 10:23:17

End at: 2018-07-18 10:23:47

Local clock offset: 3.307 ms

Remote clock offset: 1.59 ms

Below is generated by plot.py at 2018-07-18 15:59:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.49 Mbit/s

95th percentile per-packet one-way delay: 1.077 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.73 Mbit/s

95th percentile per-packet one-way delay: 1.079 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 1.074 ms

Loss rate: 0.00%

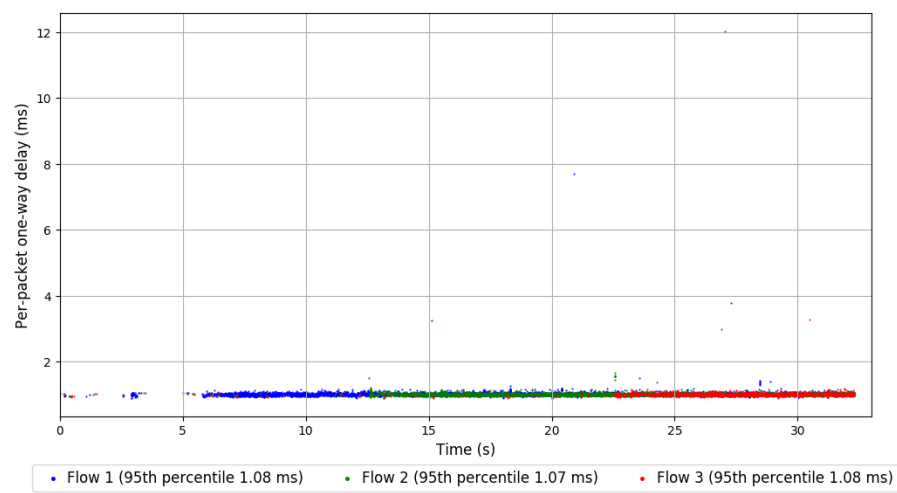
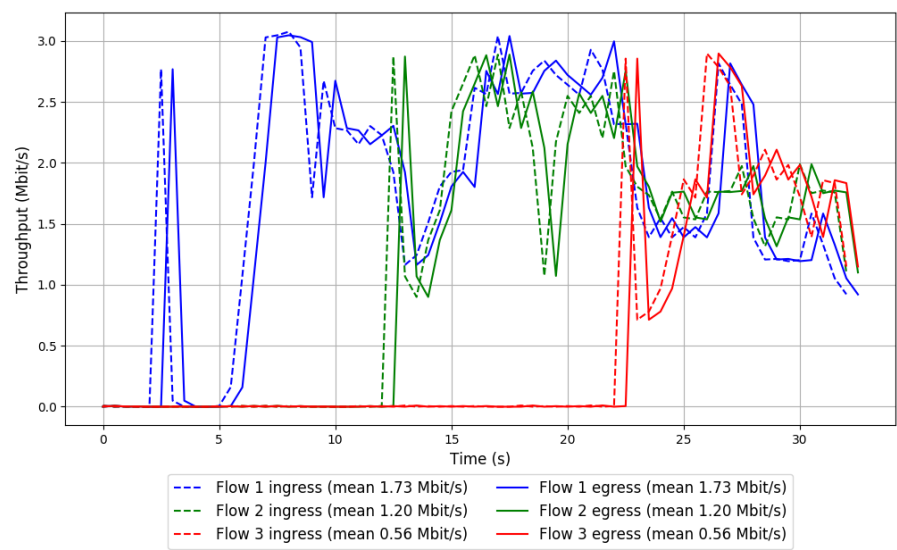
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 1.077 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-07-18 10:50:10

End at: 2018-07-18 10:50:40

Local clock offset: 0.605 ms

Remote clock offset: 1.94 ms

Below is generated by plot.py at 2018-07-18 15:59:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.45 Mbit/s

95th percentile per-packet one-way delay: 1.239 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 1.70 Mbit/s

95th percentile per-packet one-way delay: 1.235 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 1.221 ms

Loss rate: 0.23%

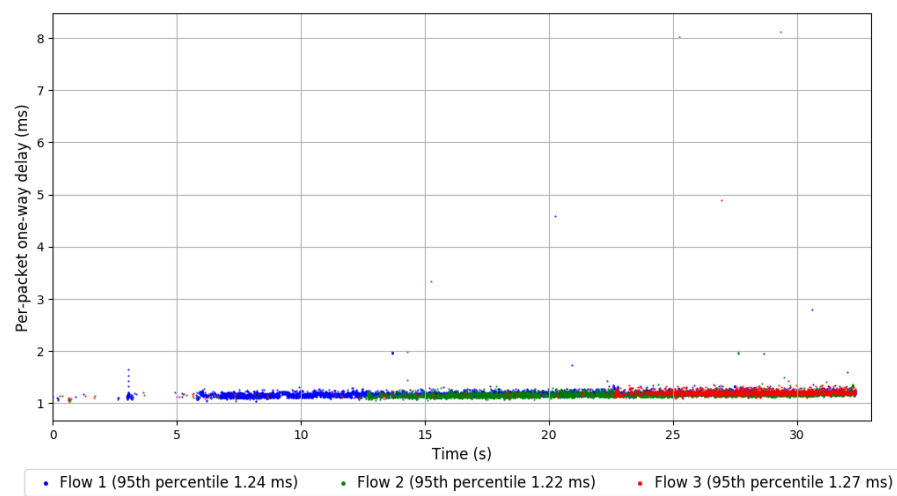
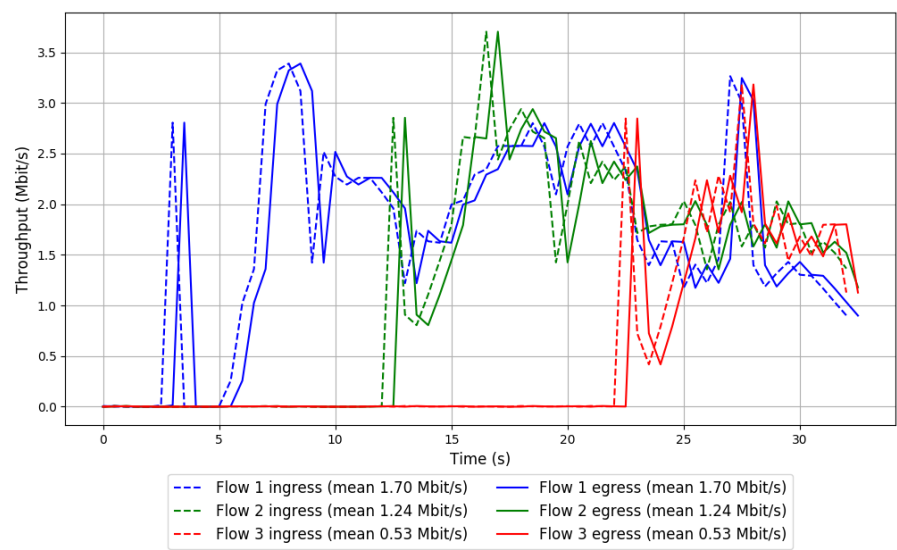
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 1.268 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-07-18 11:17:03

End at: 2018-07-18 11:17:33

Local clock offset: -0.419 ms

Remote clock offset: 2.208 ms

Below is generated by plot.py at 2018-07-18 15:59:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.45 Mbit/s

95th percentile per-packet one-way delay: 0.985 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 1.72 Mbit/s

95th percentile per-packet one-way delay: 0.981 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 0.991 ms

Loss rate: 0.29%

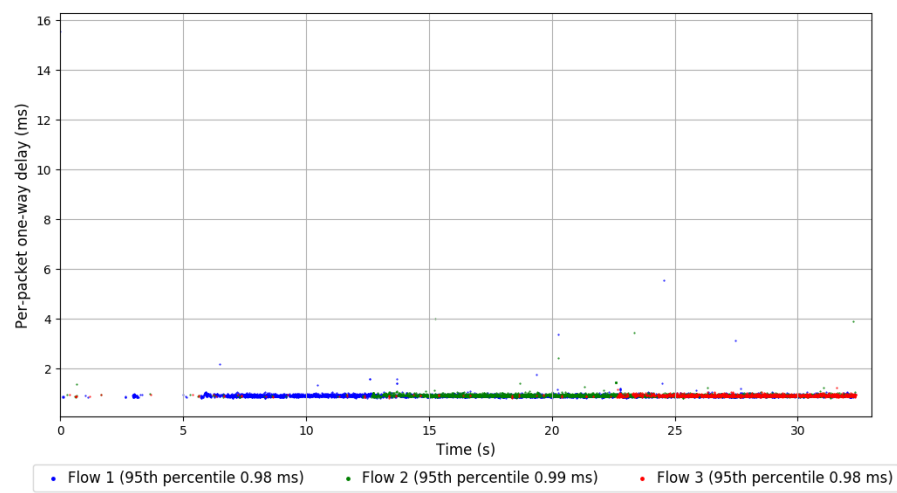
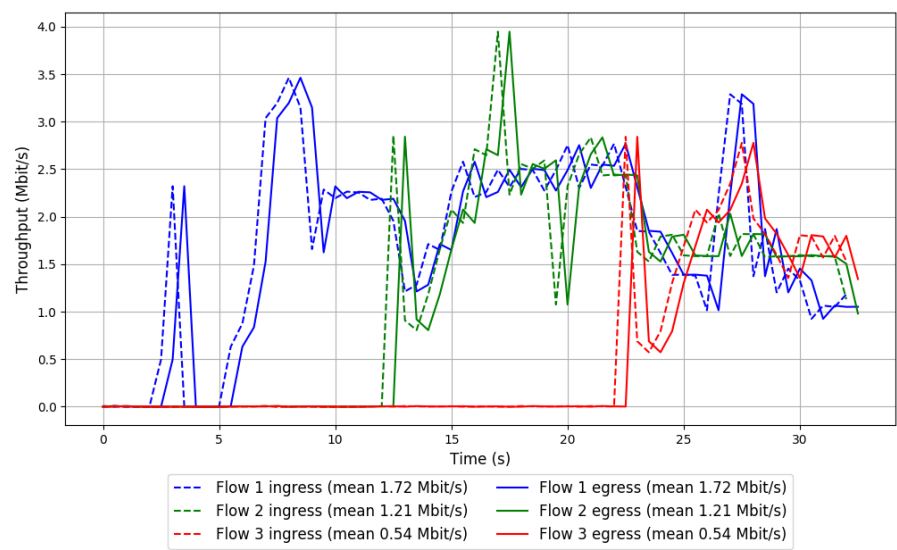
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 0.985 ms

Loss rate: 0.54%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-18 11:43:57

End at: 2018-07-18 11:44:27

Local clock offset: -0.159 ms

Remote clock offset: 2.135 ms

Below is generated by plot.py at 2018-07-18 15:59:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.47 Mbit/s

95th percentile per-packet one-way delay: 1.081 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 1.073 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 1.089 ms

Loss rate: 0.00%

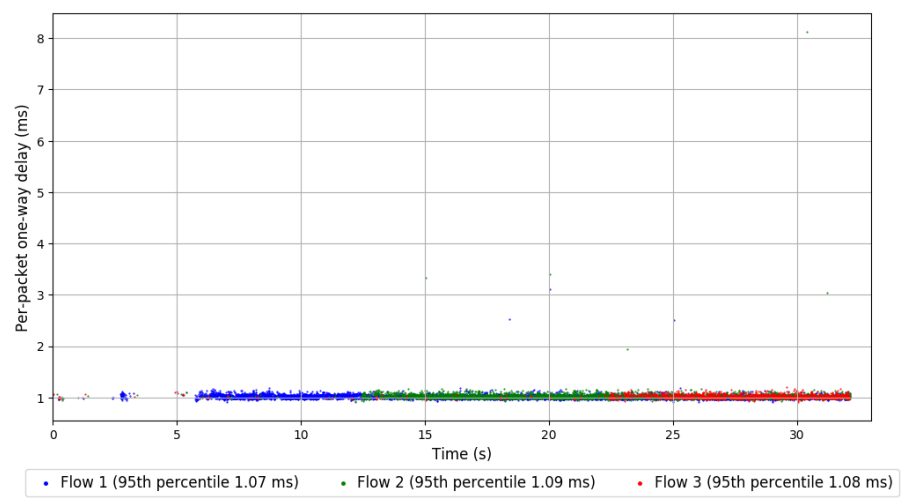
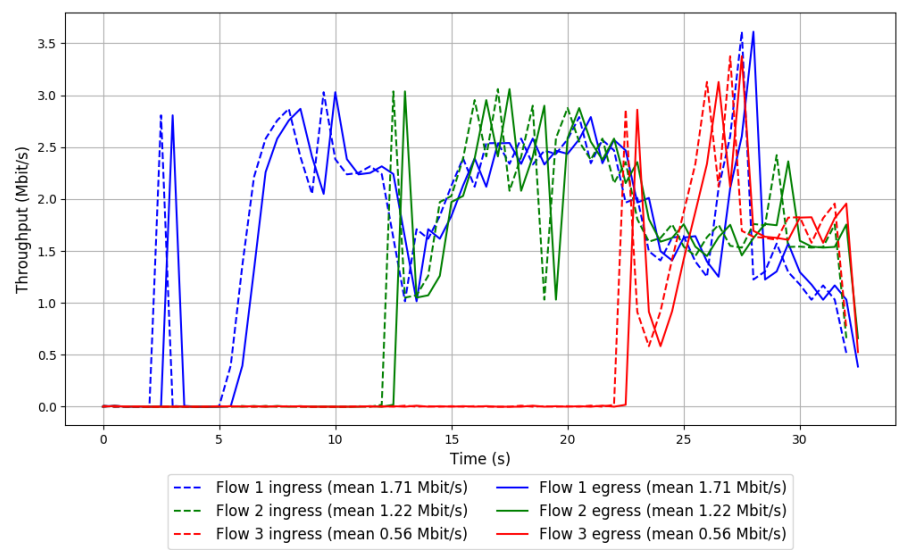
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 1.079 ms

Loss rate: 0.62%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-07-18 12:10:53

End at: 2018-07-18 12:11:23

Local clock offset: -0.776 ms

Remote clock offset: 1.866 ms

Below is generated by plot.py at 2018-07-18 15:59:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.44 Mbit/s

95th percentile per-packet one-way delay: 1.358 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 1.72 Mbit/s

95th percentile per-packet one-way delay: 1.340 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.23 Mbit/s

95th percentile per-packet one-way delay: 1.363 ms

Loss rate: 0.31%

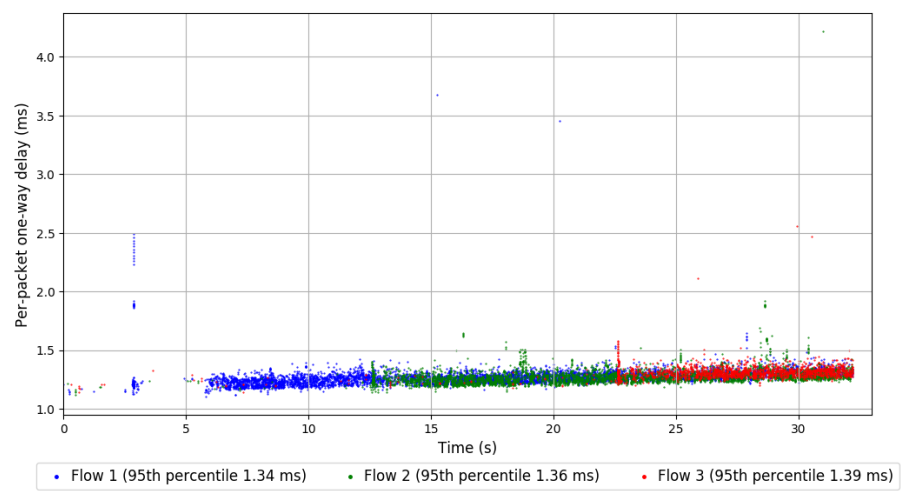
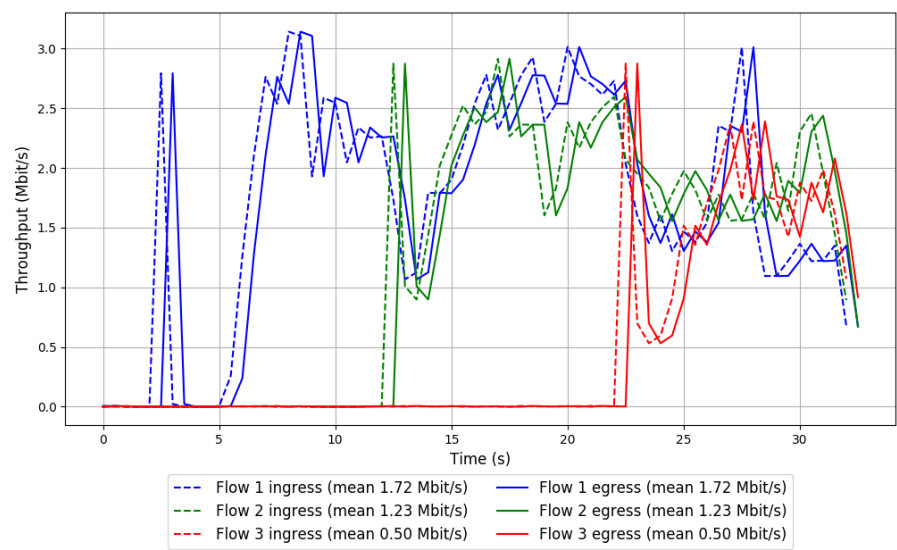
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 1.389 ms

Loss rate: 0.48%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-07-18 12:37:48

End at: 2018-07-18 12:38:18

Local clock offset: -3.682 ms

Remote clock offset: 1.179 ms

Below is generated by plot.py at 2018-07-18 15:59:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.44 Mbit/s

95th percentile per-packet one-way delay: 1.192 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 1.200 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 1.183 ms

Loss rate: 0.00%

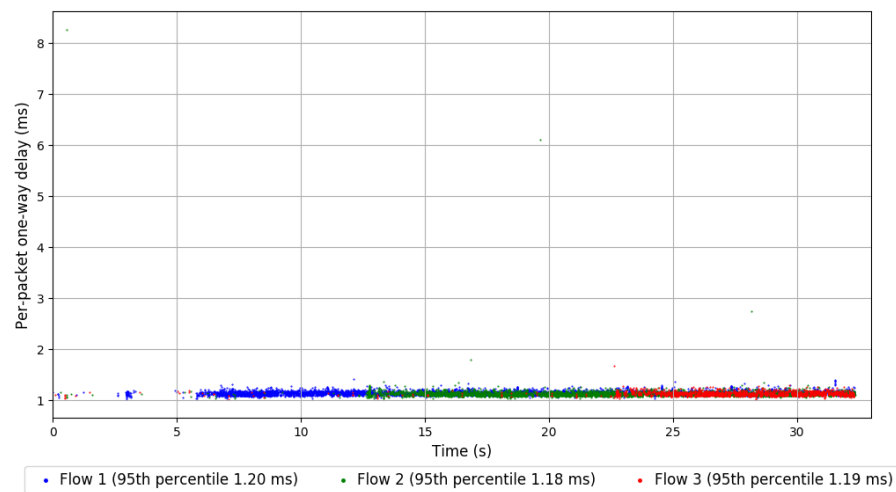
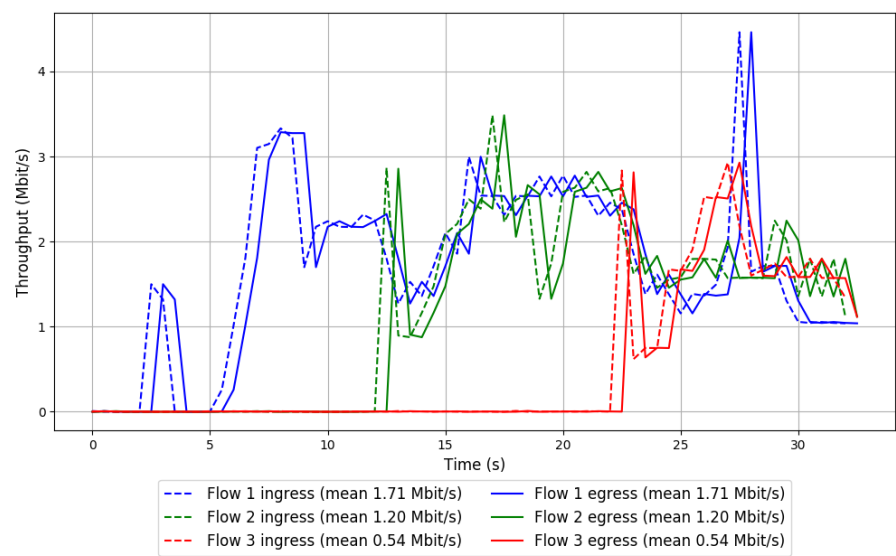
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 1.189 ms

Loss rate: 0.64%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-18 13:04:48

End at: 2018-07-18 13:05:18

Local clock offset: 0.519 ms

Remote clock offset: 0.616 ms

Below is generated by plot.py at 2018-07-18 15:59:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.45 Mbit/s

95th percentile per-packet one-way delay: 1.133 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 1.135 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 1.133 ms

Loss rate: 0.29%

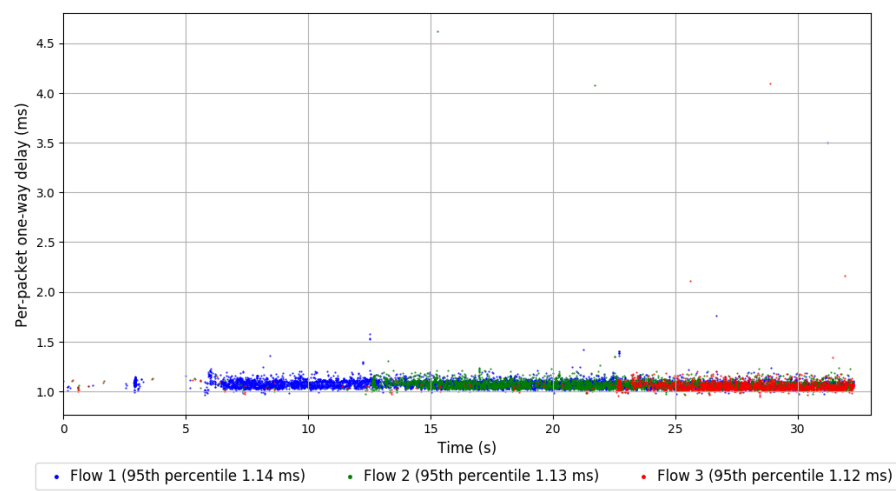
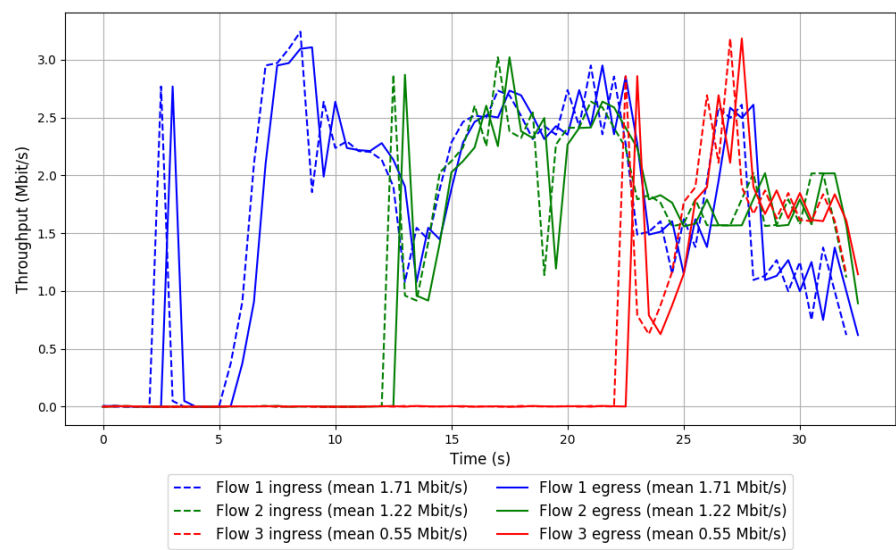
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 1.120 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-18 13:31:43

End at: 2018-07-18 13:32:13

Local clock offset: 4.113 ms

Remote clock offset: 0.285 ms

Below is generated by plot.py at 2018-07-18 15:59:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.43 Mbit/s

95th percentile per-packet one-way delay: 1.093 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 1.72 Mbit/s

95th percentile per-packet one-way delay: 1.089 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 1.19 Mbit/s

95th percentile per-packet one-way delay: 1.095 ms

Loss rate: 0.27%

-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 1.101 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

