

Pantheon Report

Generated at 2018-05-24 21:54:17 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

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

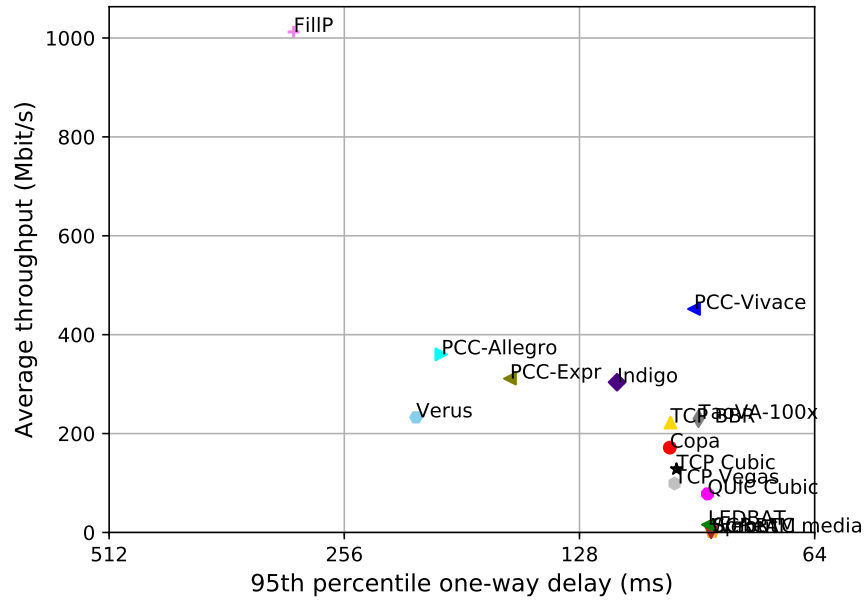
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

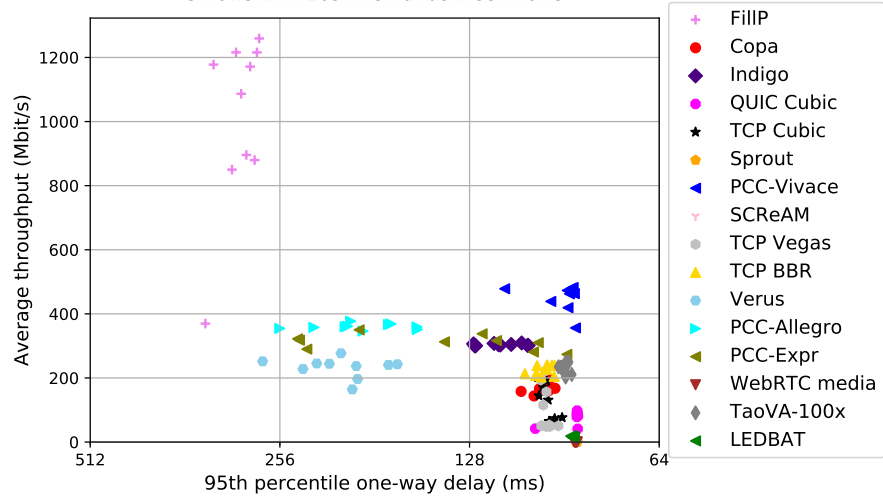
Git summary:

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

test from GCE Iowa to GCE Sydney, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



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



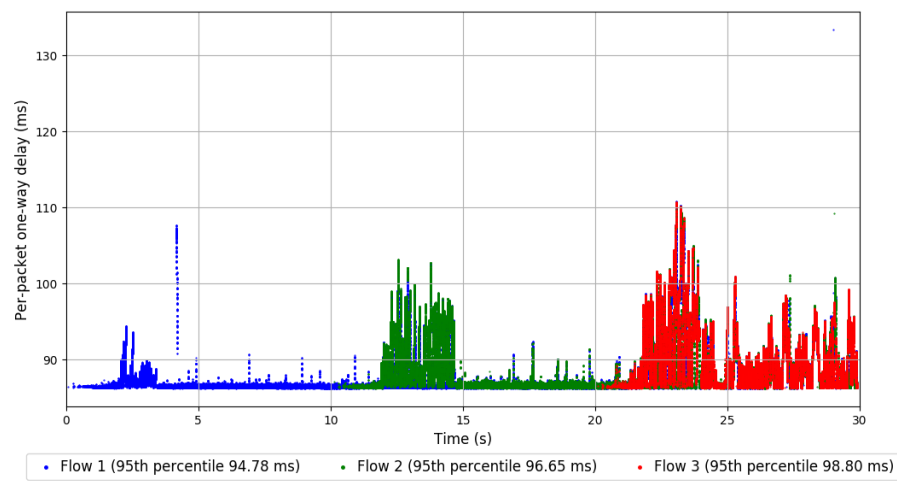
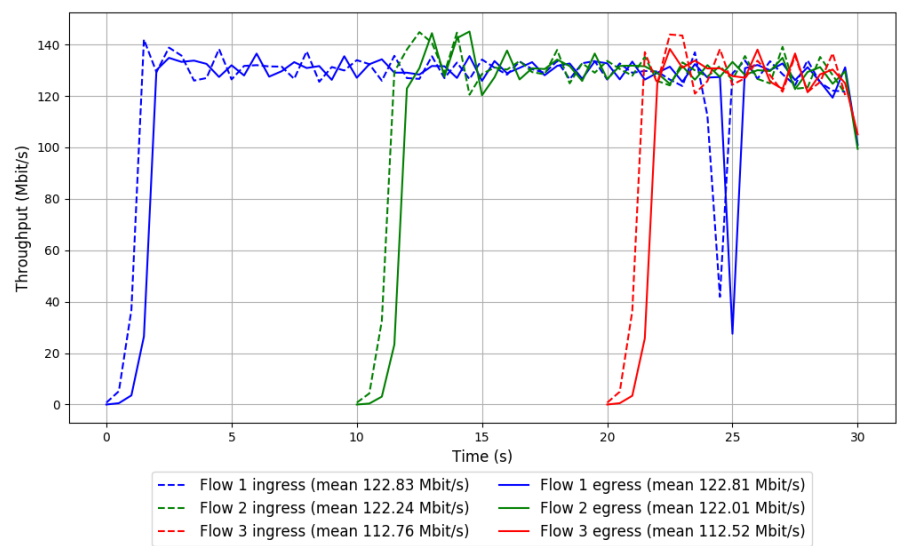
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	113.67	111.71	104.86	95.28	98.34	101.88	0.56	0.86	2.15
Copa	10	99.28	75.52	67.61	97.60	100.40	100.67	0.59	0.64	2.09
TCP Cubic	10	71.00	60.68	51.31	95.57	95.61	96.91	0.46	0.93	2.63
FillP	10	494.61	504.53	558.45	302.67	297.31	229.02	3.32	2.99	3.95
Indigo	10	169.39	145.50	115.90	110.57	114.99	121.32	0.54	0.84	2.12
LEDBAT	10	10.04	6.69	3.61	87.79	87.49	87.22	0.90	1.42	3.21
PCC-Allegro	10	329.76	38.39	15.55	191.94	192.18	190.19	0.97	1.15	2.21
PCC-Expr	10	216.62	115.56	54.82	152.32	146.60	151.72	1.04	1.65	3.46
QUIC Cubic	10	40.22	38.99	36.38	88.11	86.34	86.41	0.66	0.83	3.19
SCReAM	10	0.22	0.22	0.22	86.36	86.35	86.34	0.51	0.91	1.66
Sprout	10	0.30	0.25	0.32	86.55	86.56	86.60	0.51	0.96	1.57
TaoVA-100x	10	151.64	97.94	90.65	88.66	92.81	93.62	0.21	0.89	2.64
TCP Vegas	10	58.56	39.94	42.23	95.04	95.19	97.92	0.32	0.73	1.18
Verus	10	169.58	69.84	52.68	203.00	201.72	217.09	1.30	1.09	3.42
PCC-Vivace	10	277.29	199.20	130.67	98.02	88.08	87.44	0.51	1.16	2.70
WebRTC media	10	0.05	0.05	0.05	86.75	86.78	86.70	0.00	0.08	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-05-24 16:14:51
End at: 2018-05-24 16:15:21
Local clock offset: 0.049 ms
Remote clock offset: -0.083 ms

Below is generated by plot.py at 2018-05-24 20:12:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 240.76 Mbit/s
95th percentile per-packet one-way delay: 96.437 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 122.81 Mbit/s
95th percentile per-packet one-way delay: 94.778 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 122.01 Mbit/s
95th percentile per-packet one-way delay: 96.650 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 112.52 Mbit/s
95th percentile per-packet one-way delay: 98.798 ms
Loss rate: 1.94%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-05-24 16:38:18

End at: 2018-05-24 16:38:48

Local clock offset: -0.035 ms

Remote clock offset: -0.11 ms

Below is generated by plot.py at 2018-05-24 20:12:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 238.66 Mbit/s

95th percentile per-packet one-way delay: 93.727 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 122.39 Mbit/s

95th percentile per-packet one-way delay: 91.919 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 119.43 Mbit/s

95th percentile per-packet one-way delay: 95.169 ms

Loss rate: 0.93%

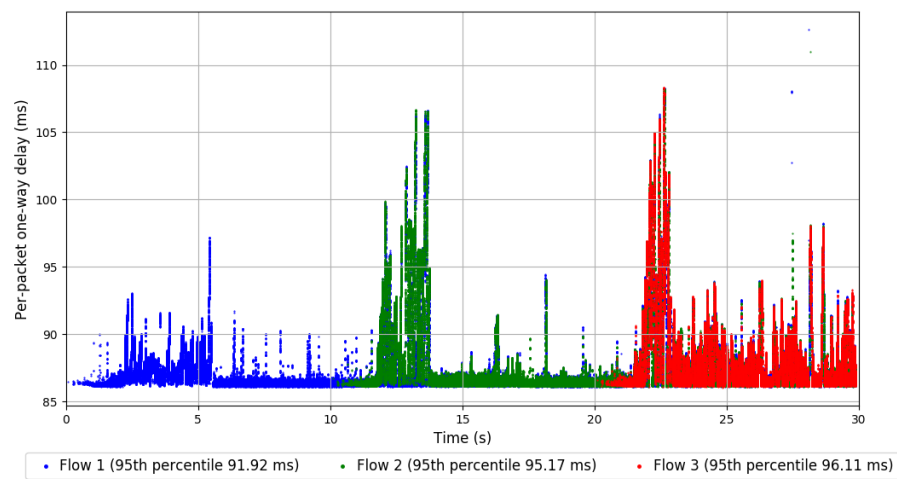
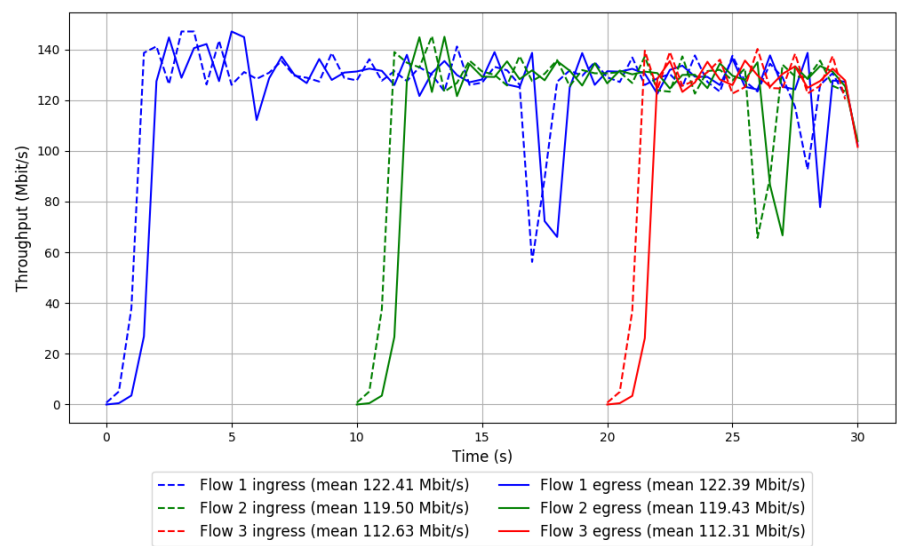
-- Flow 3:

Average throughput: 112.31 Mbit/s

95th percentile per-packet one-way delay: 96.105 ms

Loss rate: 2.03%

Run 2: Report of TCP BBR — Data Link

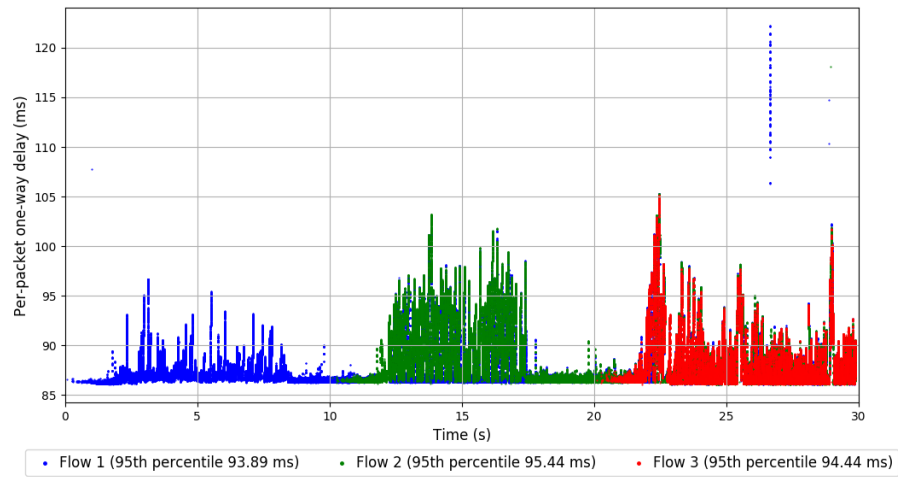
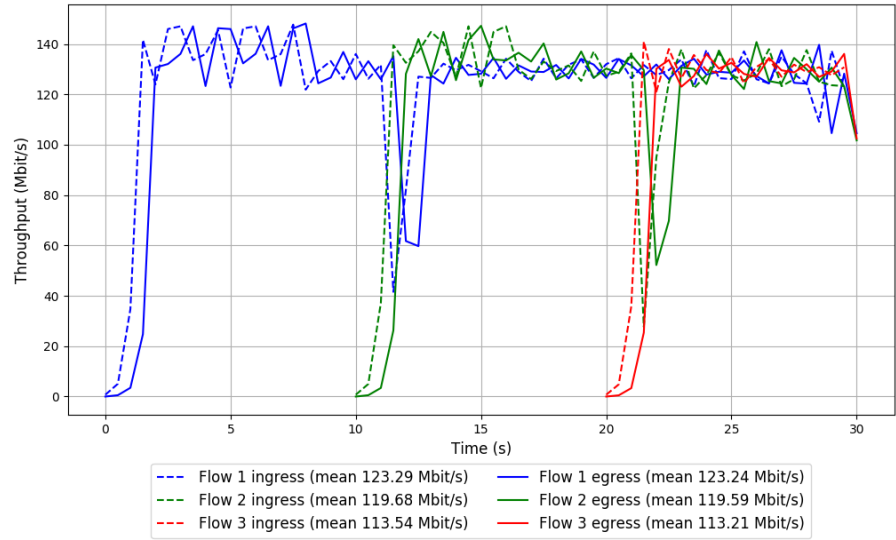


Run 3: Statistics of TCP BBR

Start at: 2018-05-24 17:02:06
End at: 2018-05-24 17:02:36
Local clock offset: 0.158 ms
Remote clock offset: -0.068 ms

Below is generated by plot.py at 2018-05-24 20:12:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 239.86 Mbit/s
95th percentile per-packet one-way delay: 94.650 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 123.24 Mbit/s
95th percentile per-packet one-way delay: 93.889 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 119.59 Mbit/s
95th percentile per-packet one-way delay: 95.442 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 113.21 Mbit/s
95th percentile per-packet one-way delay: 94.443 ms
Loss rate: 2.03%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-05-24 17:25:55

End at: 2018-05-24 17:26:25

Local clock offset: 0.148 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2018-05-24 20:12:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 238.48 Mbit/s

95th percentile per-packet one-way delay: 100.005 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 122.36 Mbit/s

95th percentile per-packet one-way delay: 96.254 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 118.22 Mbit/s

95th percentile per-packet one-way delay: 100.147 ms

Loss rate: 0.97%

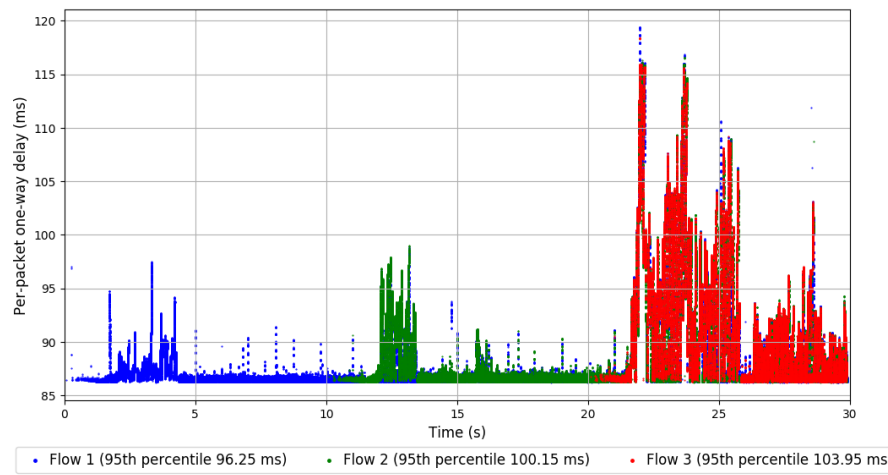
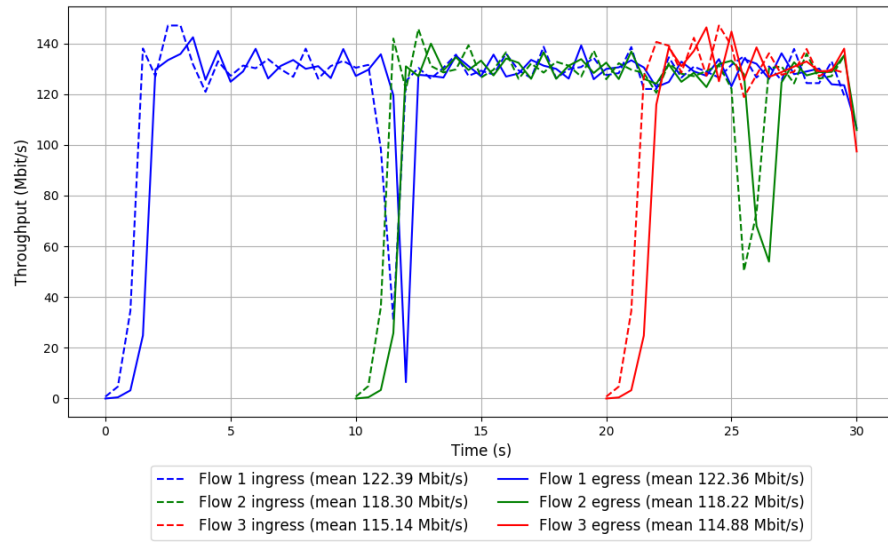
-- Flow 3:

Average throughput: 114.88 Mbit/s

95th percentile per-packet one-way delay: 103.953 ms

Loss rate: 2.14%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-05-24 17:49:35

End at: 2018-05-24 17:50:05

Local clock offset: -0.061 ms

Remote clock offset: 0.077 ms

Below is generated by plot.py at 2018-05-24 20:12:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 213.23 Mbit/s

95th percentile per-packet one-way delay: 104.562 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 109.04 Mbit/s

95th percentile per-packet one-way delay: 99.287 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 110.15 Mbit/s

95th percentile per-packet one-way delay: 104.897 ms

Loss rate: 0.01%

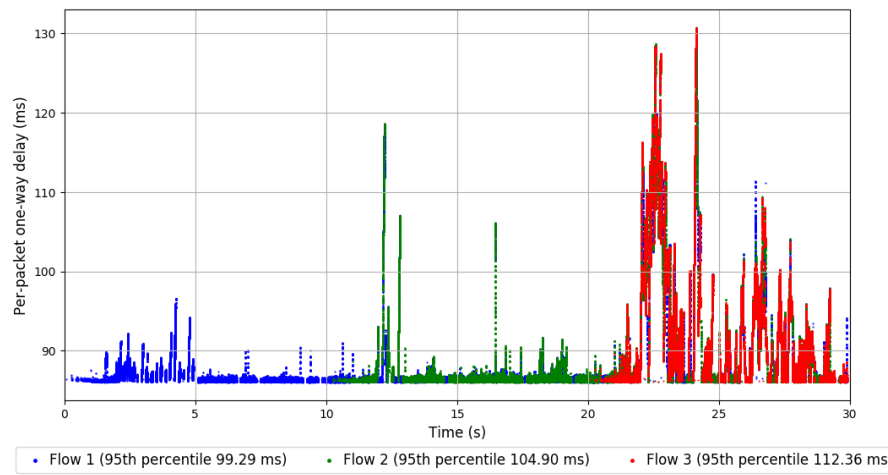
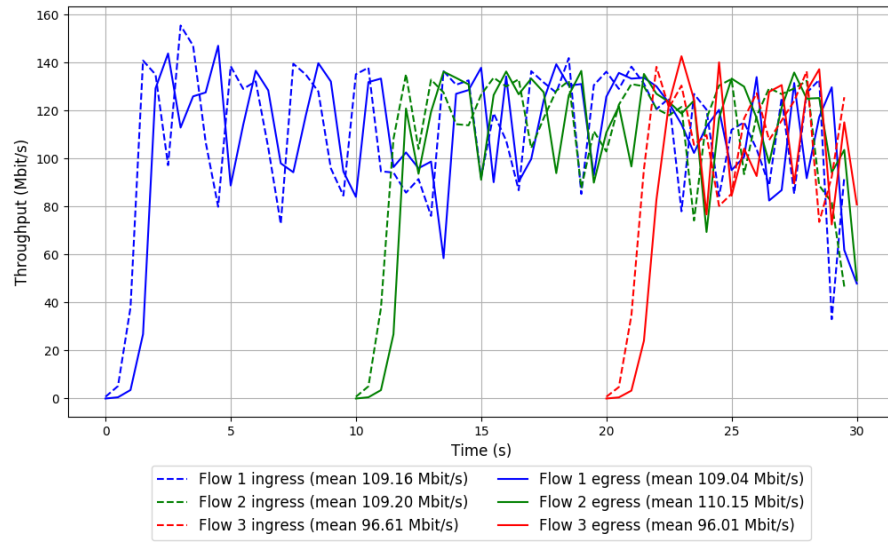
-- Flow 3:

Average throughput: 96.01 Mbit/s

95th percentile per-packet one-way delay: 112.357 ms

Loss rate: 2.33%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-05-24 18:13:00

End at: 2018-05-24 18:13:30

Local clock offset: -0.149 ms

Remote clock offset: 0.264 ms

Below is generated by plot.py at 2018-05-24 20:12:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 208.36 Mbit/s

95th percentile per-packet one-way delay: 100.007 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 103.23 Mbit/s

95th percentile per-packet one-way delay: 96.071 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 108.94 Mbit/s

95th percentile per-packet one-way delay: 100.213 ms

Loss rate: 1.02%

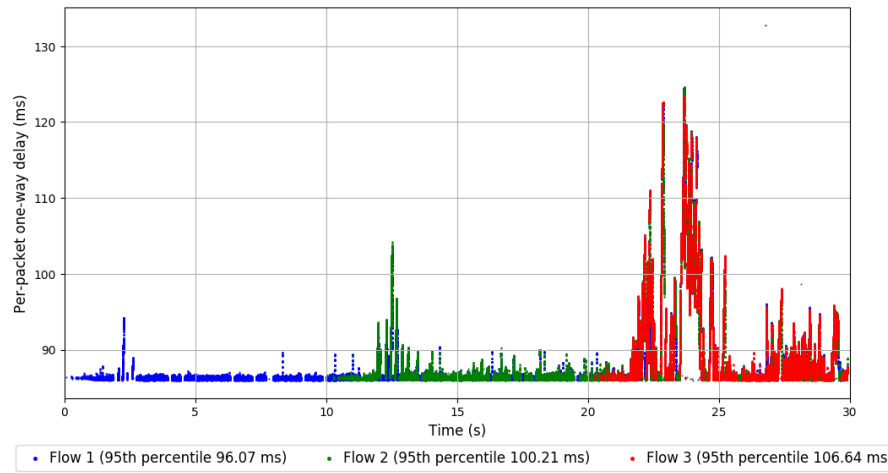
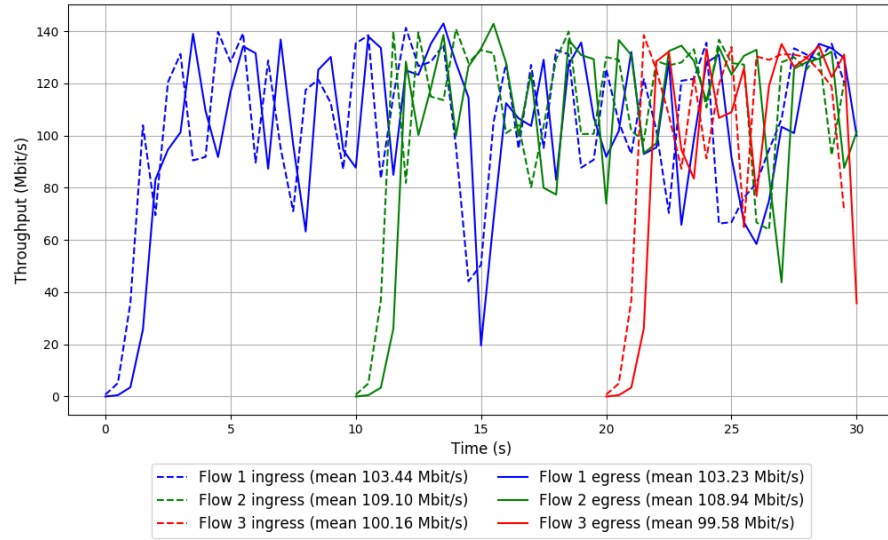
-- Flow 3:

Average throughput: 99.58 Mbit/s

95th percentile per-packet one-way delay: 106.639 ms

Loss rate: 2.31%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-05-24 18:36:18

End at: 2018-05-24 18:36:48

Local clock offset: -0.09 ms

Remote clock offset: 0.394 ms

Below is generated by plot.py at 2018-05-24 20:12:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 203.10 Mbit/s

95th percentile per-packet one-way delay: 98.538 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 105.70 Mbit/s

95th percentile per-packet one-way delay: 95.555 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 101.50 Mbit/s

95th percentile per-packet one-way delay: 97.752 ms

Loss rate: 0.59%

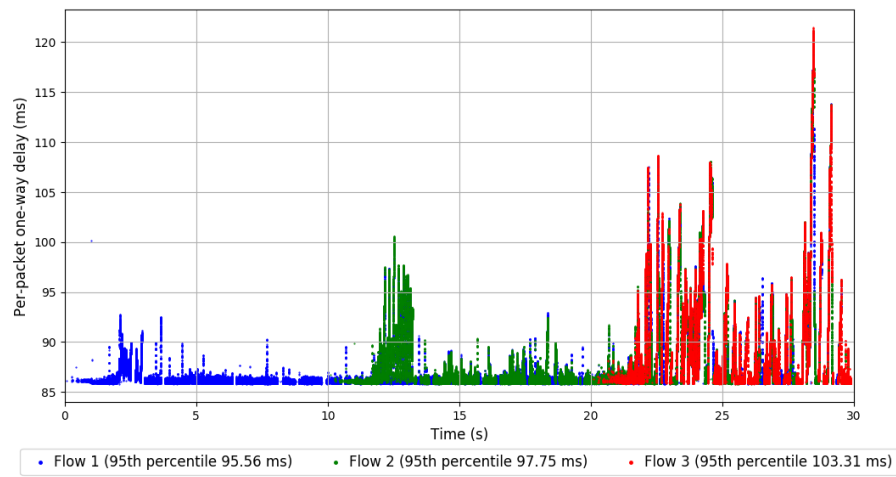
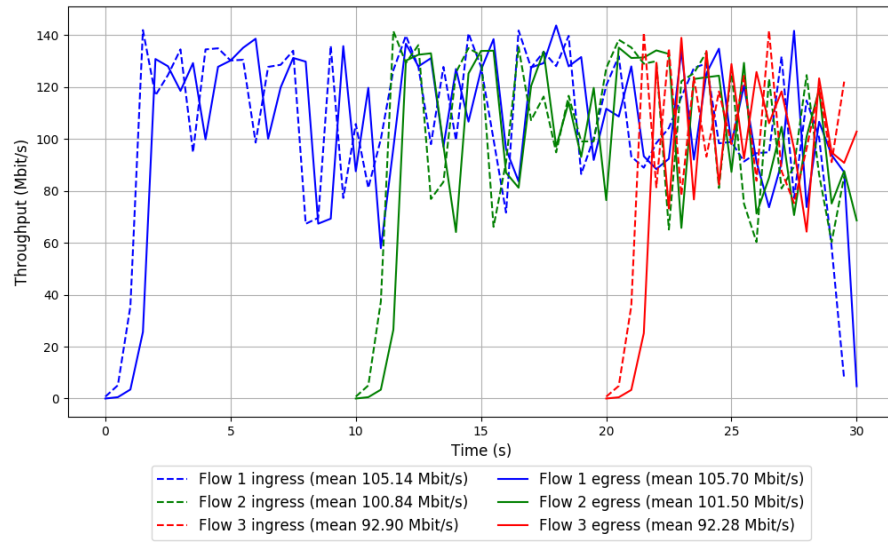
-- Flow 3:

Average throughput: 92.28 Mbit/s

95th percentile per-packet one-way delay: 103.309 ms

Loss rate: 2.40%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-05-24 18:59:39

End at: 2018-05-24 19:00:09

Local clock offset: -0.028 ms

Remote clock offset: 0.47 ms

Below is generated by plot.py at 2018-05-24 20:12:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 204.91 Mbit/s

95th percentile per-packet one-way delay: 93.944 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 106.76 Mbit/s

95th percentile per-packet one-way delay: 92.716 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 99.47 Mbit/s

95th percentile per-packet one-way delay: 94.479 ms

Loss rate: 1.12%

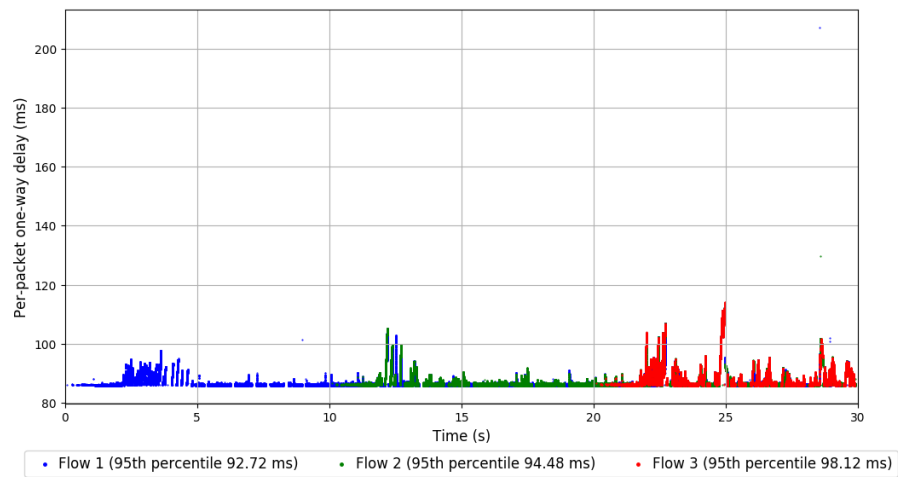
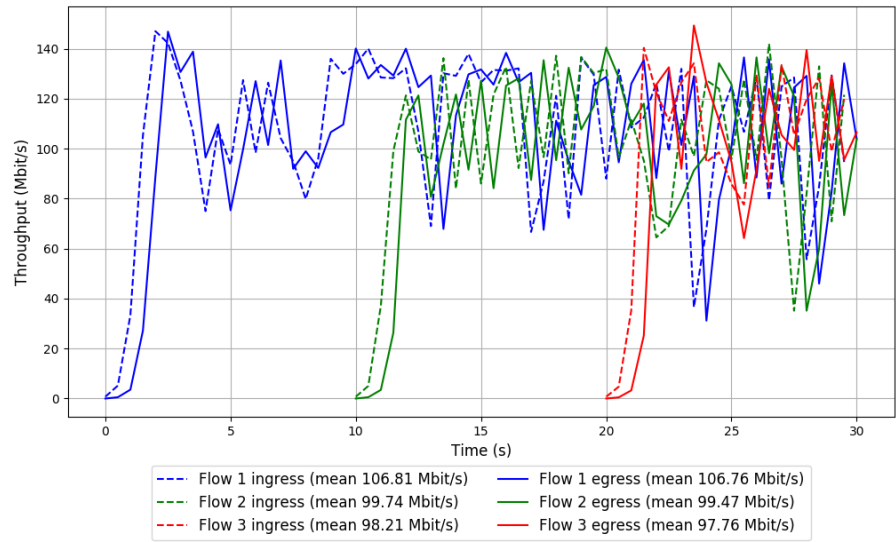
-- Flow 3:

Average throughput: 97.76 Mbit/s

95th percentile per-packet one-way delay: 98.123 ms

Loss rate: 2.08%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-05-24 19:23:35

End at: 2018-05-24 19:24:05

Local clock offset: -0.036 ms

Remote clock offset: 0.579 ms

Below is generated by plot.py at 2018-05-24 20:15:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 226.84 Mbit/s

95th percentile per-packet one-way delay: 96.578 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 114.75 Mbit/s

95th percentile per-packet one-way delay: 95.142 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 113.00 Mbit/s

95th percentile per-packet one-way delay: 97.316 ms

Loss rate: 0.98%

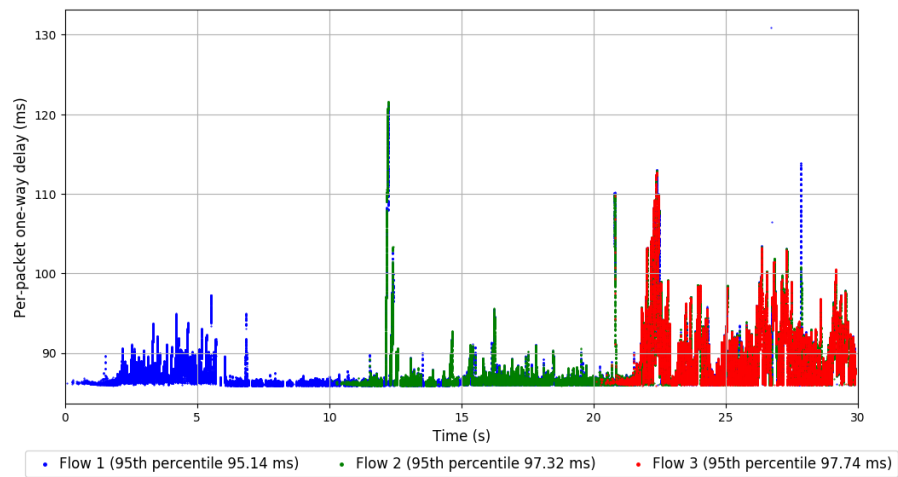
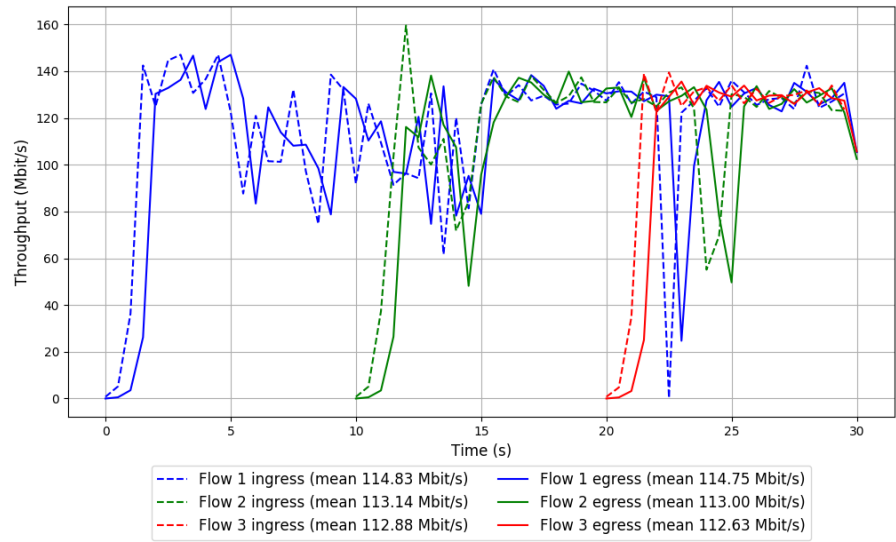
-- Flow 3:

Average throughput: 112.63 Mbit/s

95th percentile per-packet one-way delay: 97.743 ms

Loss rate: 1.96%

Run 9: Report of TCP BBR — Data Link

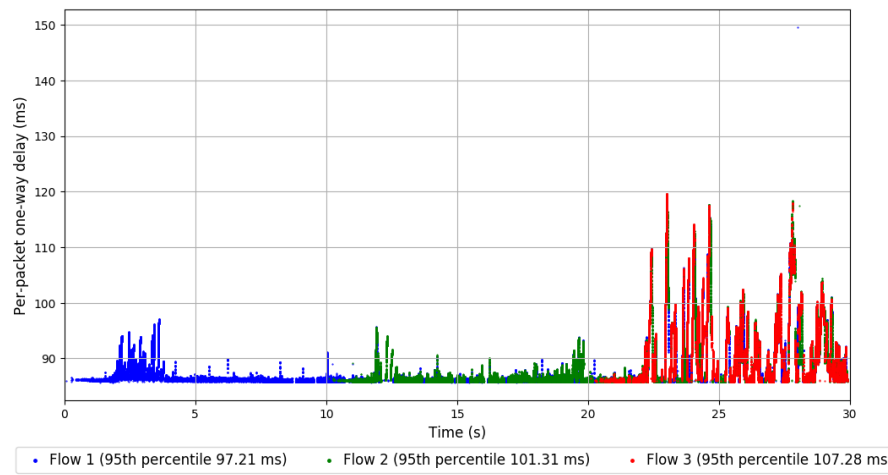
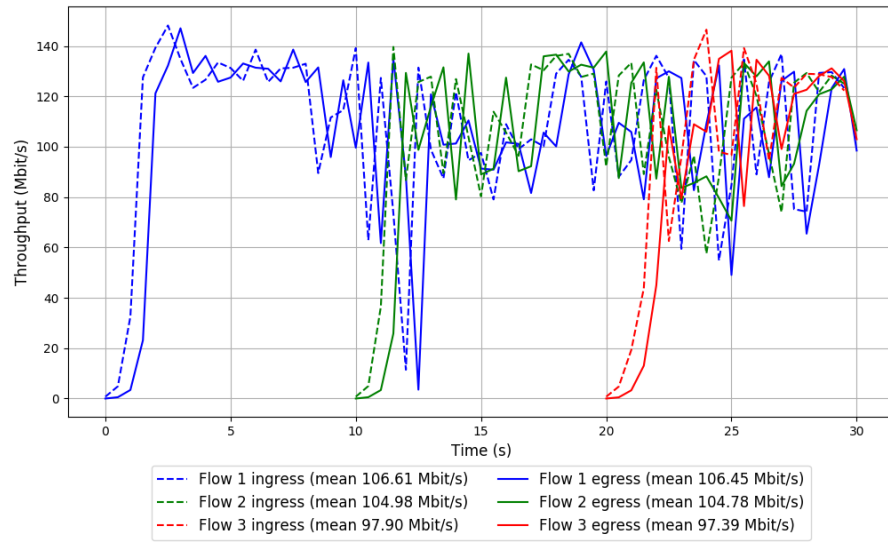


Run 10: Statistics of TCP BBR

Start at: 2018-05-24 19:46:42
End at: 2018-05-24 19:47:12
Local clock offset: -0.309 ms
Remote clock offset: -0.099 ms

Below is generated by plot.py at 2018-05-24 20:15:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 207.99 Mbit/s
95th percentile per-packet one-way delay: 100.557 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 106.45 Mbit/s
95th percentile per-packet one-way delay: 97.207 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 104.78 Mbit/s
95th percentile per-packet one-way delay: 101.311 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 97.39 Mbit/s
95th percentile per-packet one-way delay: 107.285 ms
Loss rate: 2.26%

Run 10: Report of TCP BBR — Data Link

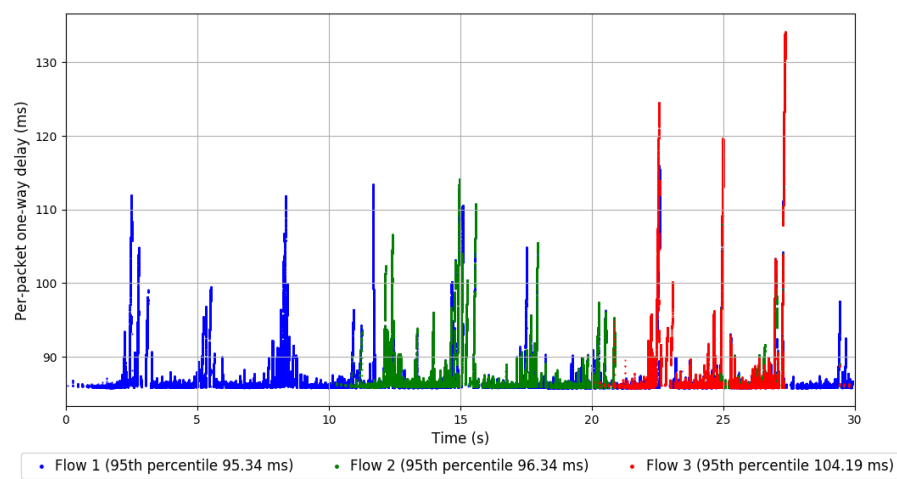
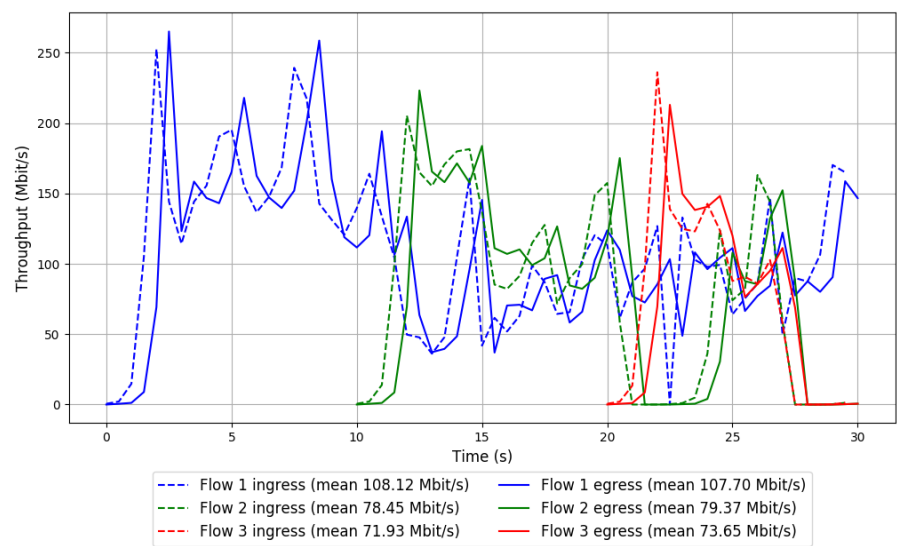


Run 1: Statistics of Copa

Start at: 2018-05-24 16:13:11
End at: 2018-05-24 16:13:41
Local clock offset: -0.264 ms
Remote clock offset: -0.077 ms

Below is generated by plot.py at 2018-05-24 20:17:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 184.09 Mbit/s
95th percentile per-packet one-way delay: 96.572 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 107.70 Mbit/s
95th percentile per-packet one-way delay: 95.339 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 79.37 Mbit/s
95th percentile per-packet one-way delay: 96.336 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 73.65 Mbit/s
95th percentile per-packet one-way delay: 104.186 ms
Loss rate: 0.05%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-05-24 16:36:48

End at: 2018-05-24 16:37:18

Local clock offset: 0.073 ms

Remote clock offset: -0.13 ms

Below is generated by plot.py at 2018-05-24 20:17:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 185.45 Mbit/s

95th percentile per-packet one-way delay: 97.690 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 120.40 Mbit/s

95th percentile per-packet one-way delay: 97.312 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 47.78 Mbit/s

95th percentile per-packet one-way delay: 98.781 ms

Loss rate: 0.26%

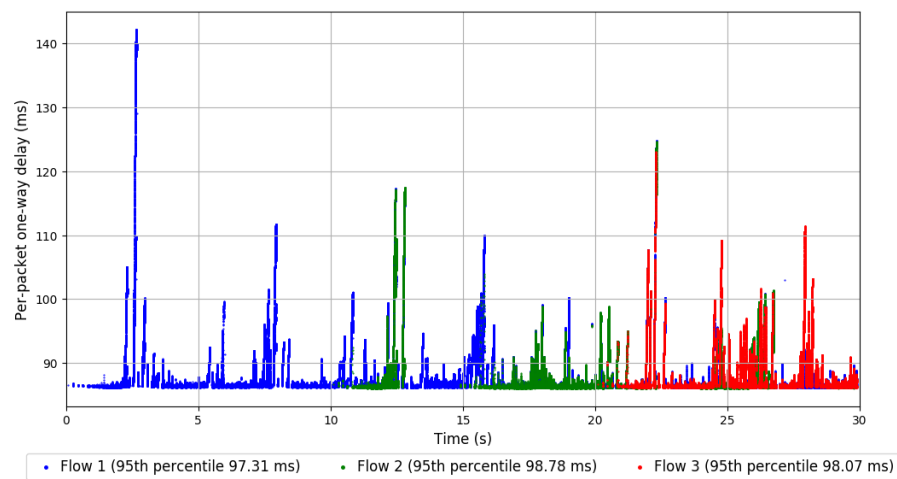
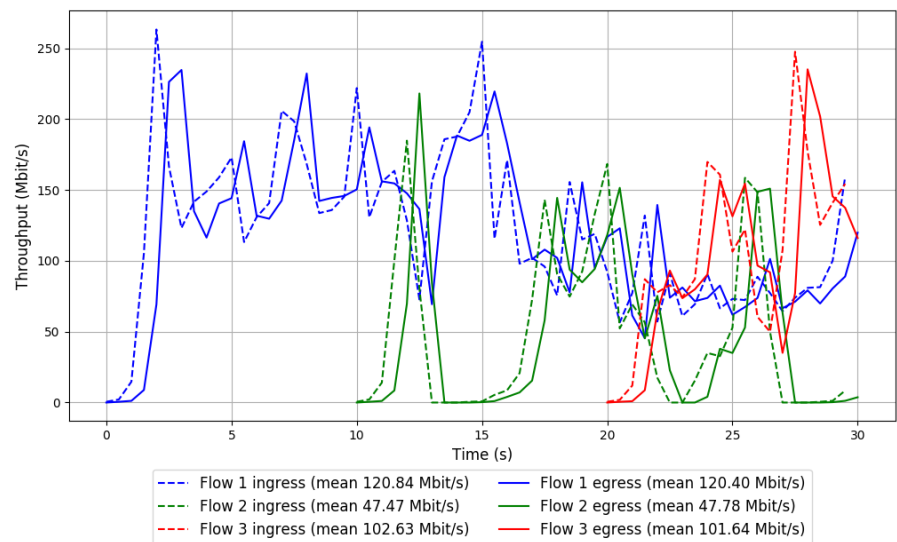
-- Flow 3:

Average throughput: 101.64 Mbit/s

95th percentile per-packet one-way delay: 98.070 ms

Loss rate: 2.67%

Run 2: Report of Copa — Data Link

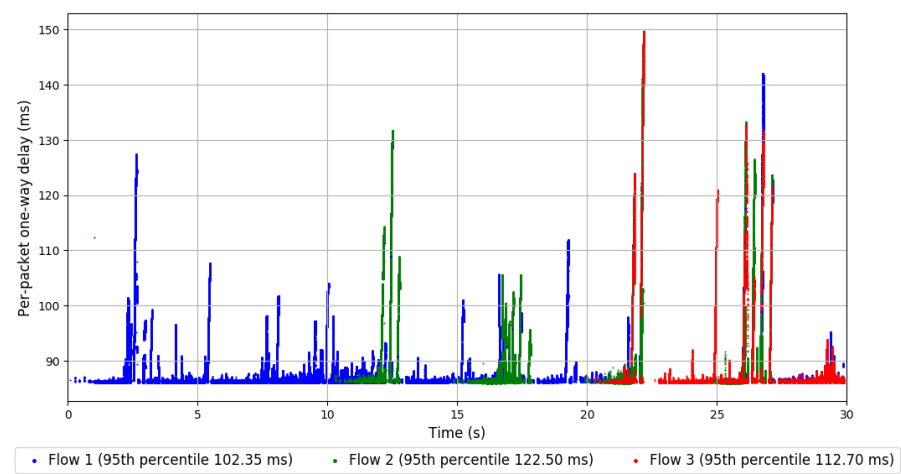
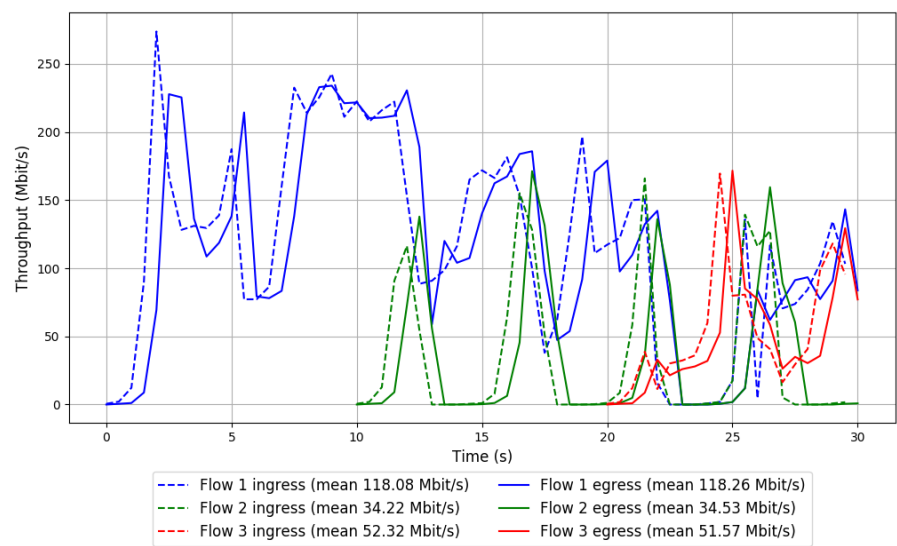


Run 3: Statistics of Copa

Start at: 2018-05-24 17:00:35
End at: 2018-05-24 17:01:05
Local clock offset: 0.072 ms
Remote clock offset: -0.041 ms

Below is generated by plot.py at 2018-05-24 20:17:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 157.99 Mbit/s
95th percentile per-packet one-way delay: 106.006 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 118.26 Mbit/s
95th percentile per-packet one-way delay: 102.354 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 34.53 Mbit/s
95th percentile per-packet one-way delay: 122.500 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 51.57 Mbit/s
95th percentile per-packet one-way delay: 112.702 ms
Loss rate: 3.15%

Run 3: Report of Copa — Data Link

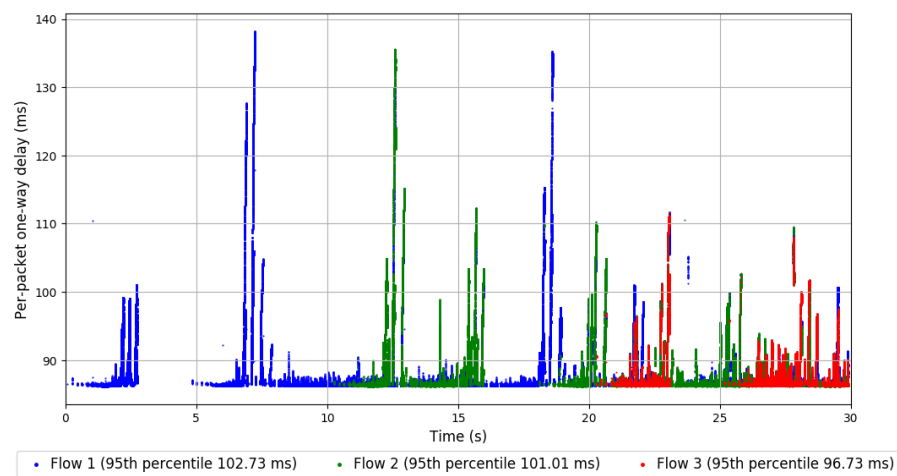
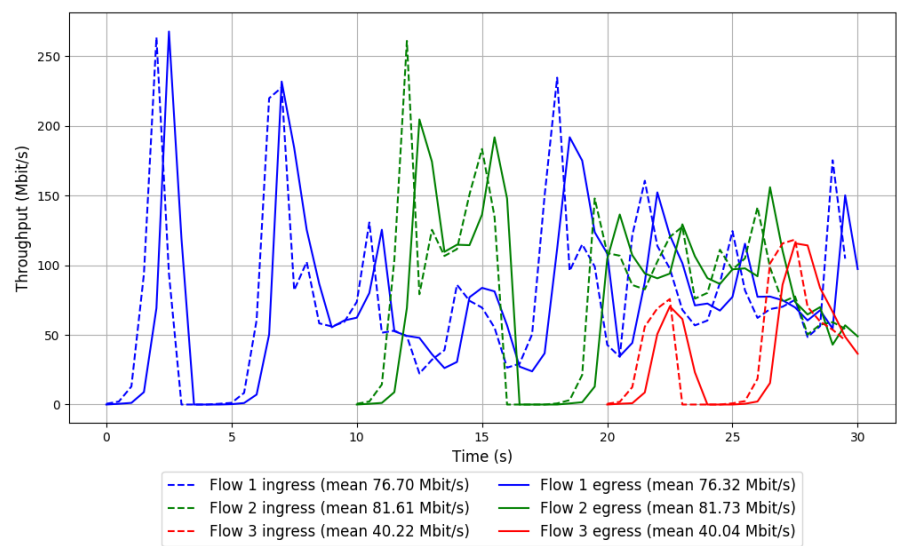


Run 4: Statistics of Copa

Start at: 2018-05-24 17:24:27
End at: 2018-05-24 17:24:58
Local clock offset: 0.15 ms
Remote clock offset: -0.017 ms

Below is generated by plot.py at 2018-05-24 20:17:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 143.78 Mbit/s
95th percentile per-packet one-way delay: 101.118 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 76.32 Mbit/s
95th percentile per-packet one-way delay: 102.735 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 81.73 Mbit/s
95th percentile per-packet one-way delay: 101.011 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 40.04 Mbit/s
95th percentile per-packet one-way delay: 96.727 ms
Loss rate: 2.16%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-05-24 17:48:02

End at: 2018-05-24 17:48:32

Local clock offset: -0.222 ms

Remote clock offset: 0.067 ms

Below is generated by plot.py at 2018-05-24 20:18:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 197.08 Mbit/s

95th percentile per-packet one-way delay: 95.448 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 117.89 Mbit/s

95th percentile per-packet one-way delay: 92.260 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 93.91 Mbit/s

95th percentile per-packet one-way delay: 99.758 ms

Loss rate: 0.50%

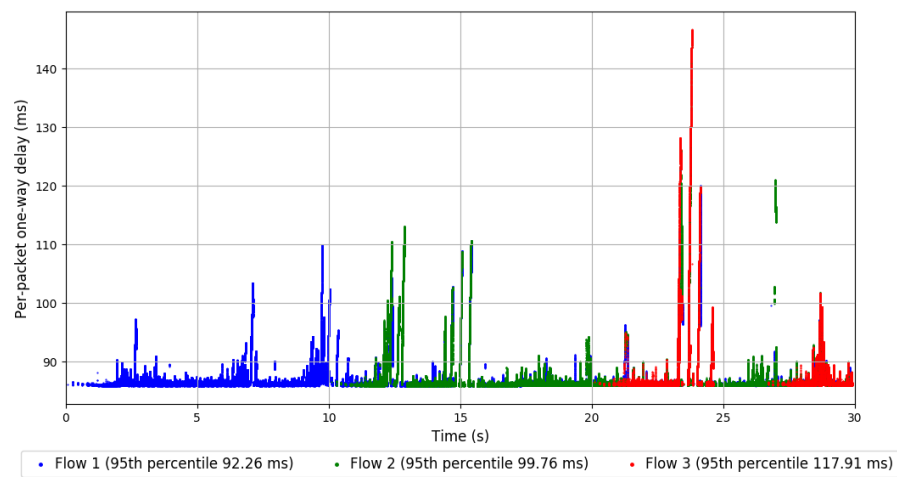
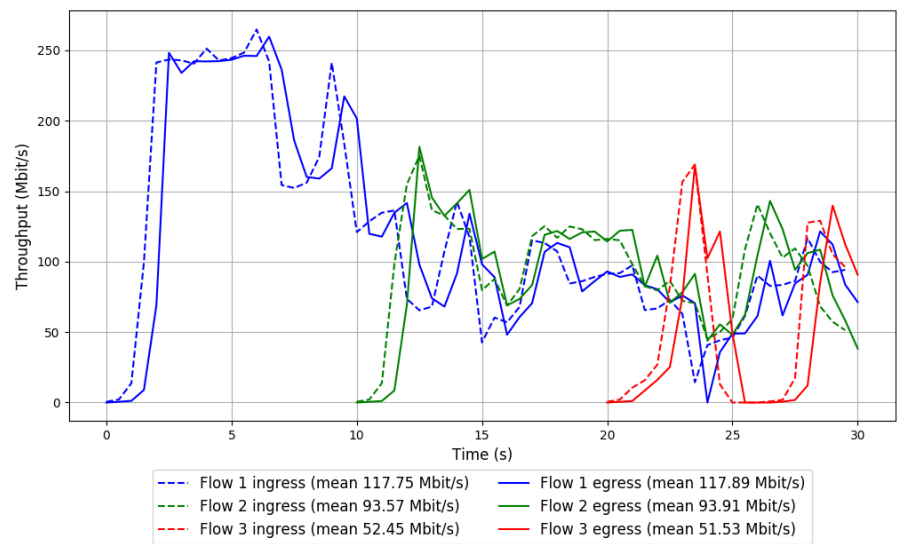
-- Flow 3:

Average throughput: 51.53 Mbit/s

95th percentile per-packet one-way delay: 117.906 ms

Loss rate: 3.45%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-05-24 18:11:27

End at: 2018-05-24 18:11:57

Local clock offset: -0.13 ms

Remote clock offset: 0.269 ms

Below is generated by plot.py at 2018-05-24 20:18:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 182.24 Mbit/s

95th percentile per-packet one-way delay: 97.868 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 93.65 Mbit/s

95th percentile per-packet one-way delay: 97.449 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 98.11 Mbit/s

95th percentile per-packet one-way delay: 96.874 ms

Loss rate: 0.72%

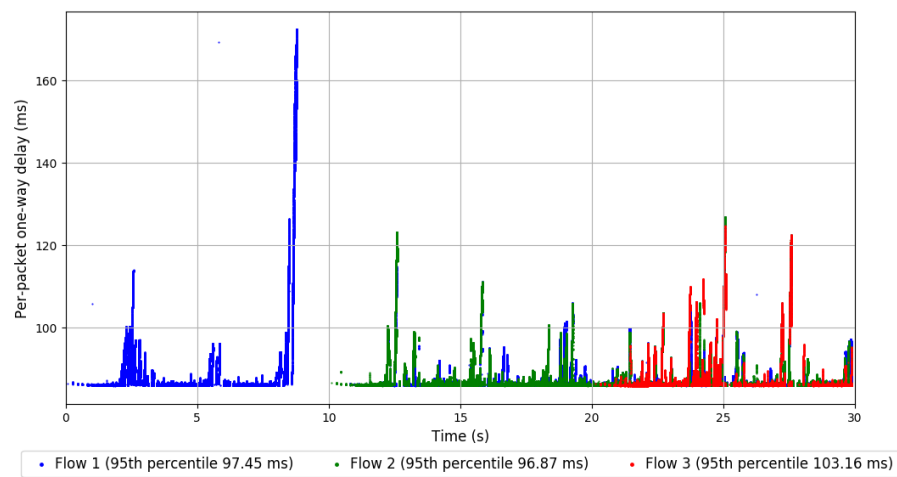
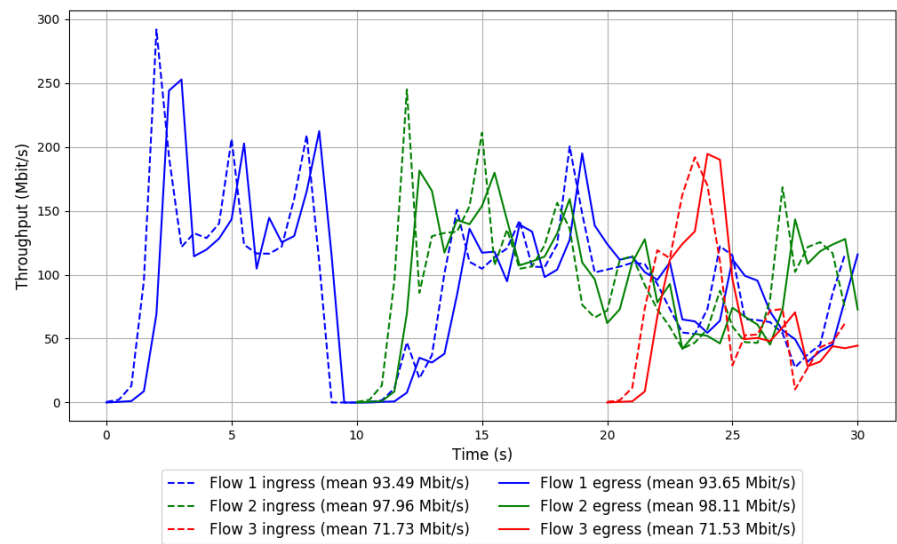
-- Flow 3:

Average throughput: 71.53 Mbit/s

95th percentile per-packet one-way delay: 103.155 ms

Loss rate: 1.89%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-05-24 18:34:49

End at: 2018-05-24 18:35:19

Local clock offset: 0.06 ms

Remote clock offset: 0.37 ms

Below is generated by plot.py at 2018-05-24 20:21:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 170.31 Mbit/s

95th percentile per-packet one-way delay: 97.602 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 76.61 Mbit/s

95th percentile per-packet one-way delay: 96.112 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 105.42 Mbit/s

95th percentile per-packet one-way delay: 99.892 ms

Loss rate: 0.55%

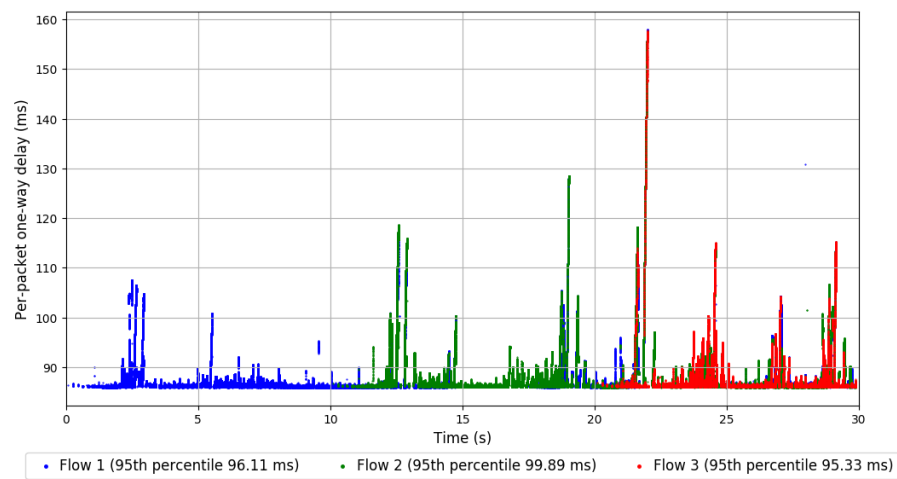
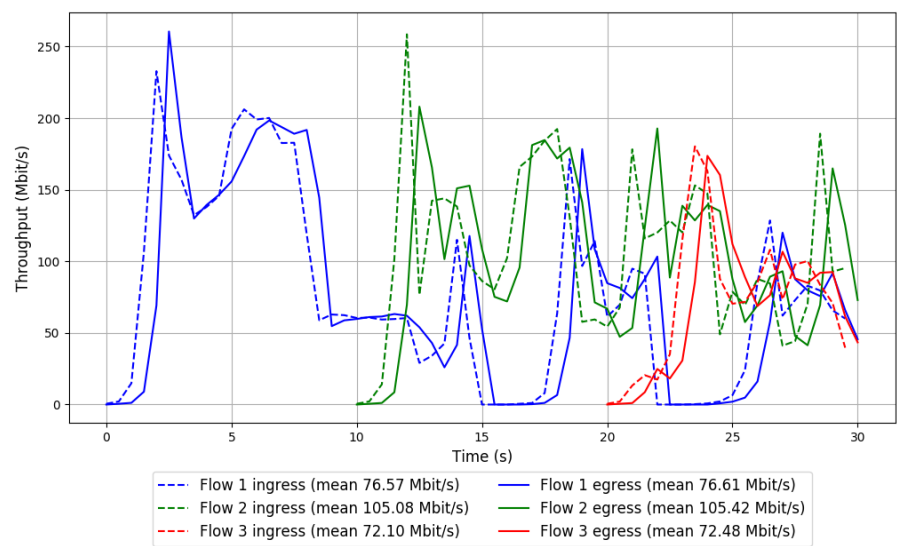
-- Flow 3:

Average throughput: 72.48 Mbit/s

95th percentile per-packet one-way delay: 95.326 ms

Loss rate: 1.23%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-05-24 18:58:09

End at: 2018-05-24 18:58:39

Local clock offset: -0.092 ms

Remote clock offset: 0.488 ms

Below is generated by plot.py at 2018-05-24 20:21:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 167.69 Mbit/s

95th percentile per-packet one-way delay: 93.636 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 86.12 Mbit/s

95th percentile per-packet one-way delay: 94.468 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 88.11 Mbit/s

95th percentile per-packet one-way delay: 92.454 ms

Loss rate: 0.54%

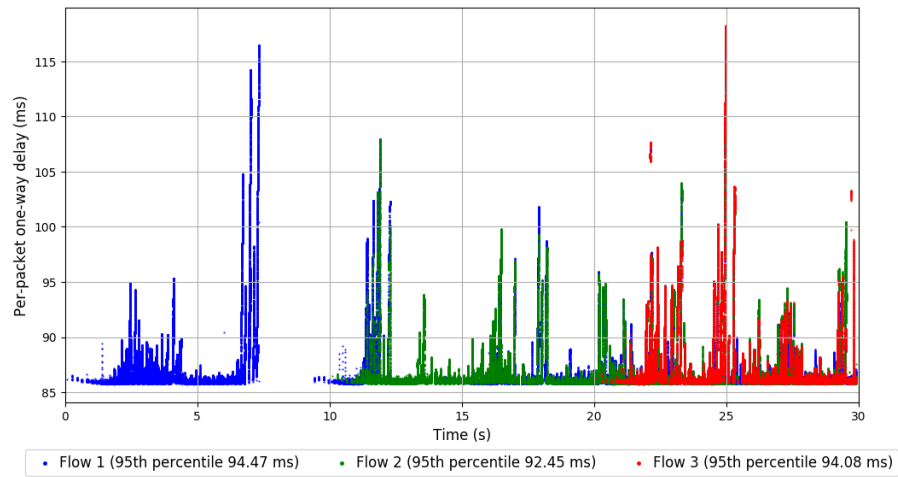
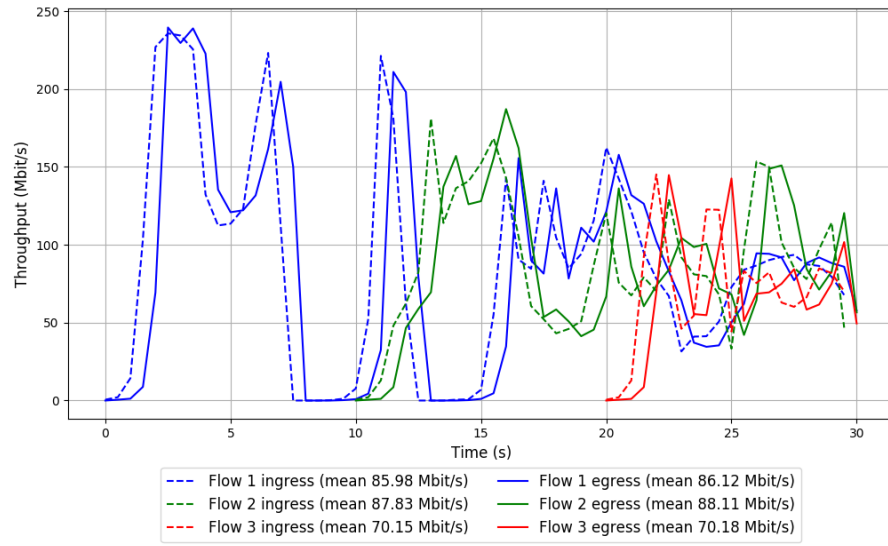
-- Flow 3:

Average throughput: 70.18 Mbit/s

95th percentile per-packet one-way delay: 94.075 ms

Loss rate: 1.69%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-05-24 19:22:00

End at: 2018-05-24 19:22:30

Local clock offset: 0.048 ms

Remote clock offset: 0.558 ms

Below is generated by plot.py at 2018-05-24 20:23:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 166.10 Mbit/s

95th percentile per-packet one-way delay: 99.158 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 93.81 Mbit/s

95th percentile per-packet one-way delay: 101.983 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 76.32 Mbit/s

95th percentile per-packet one-way delay: 98.047 ms

Loss rate: 0.60%

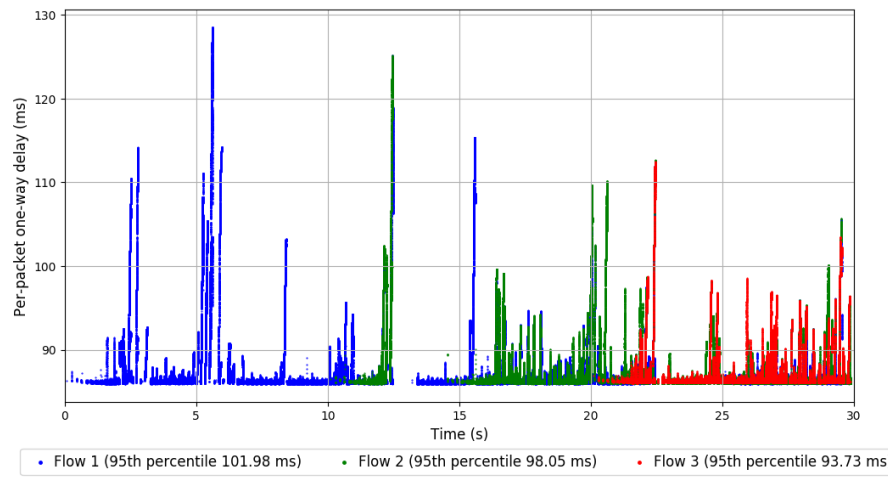
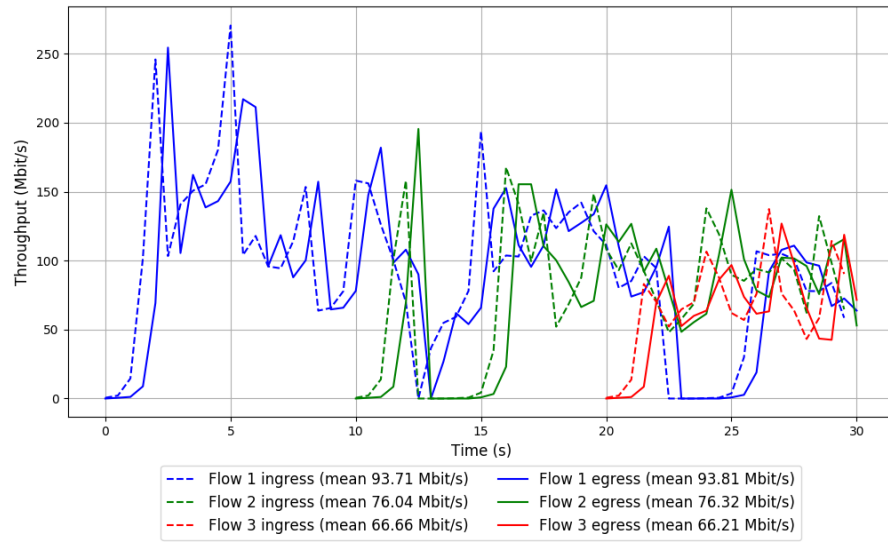
-- Flow 3:

Average throughput: 66.21 Mbit/s

95th percentile per-packet one-way delay: 93.729 ms

Loss rate: 2.68%

Run 9: Report of Copa — Data Link

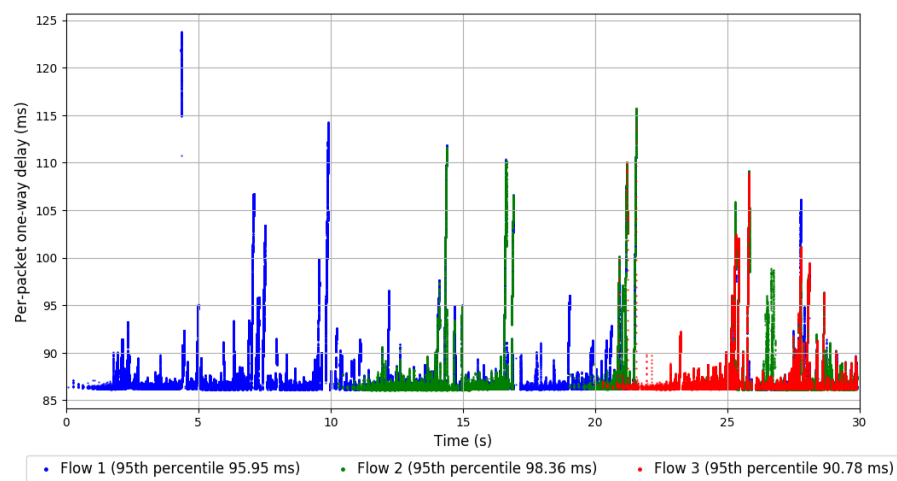
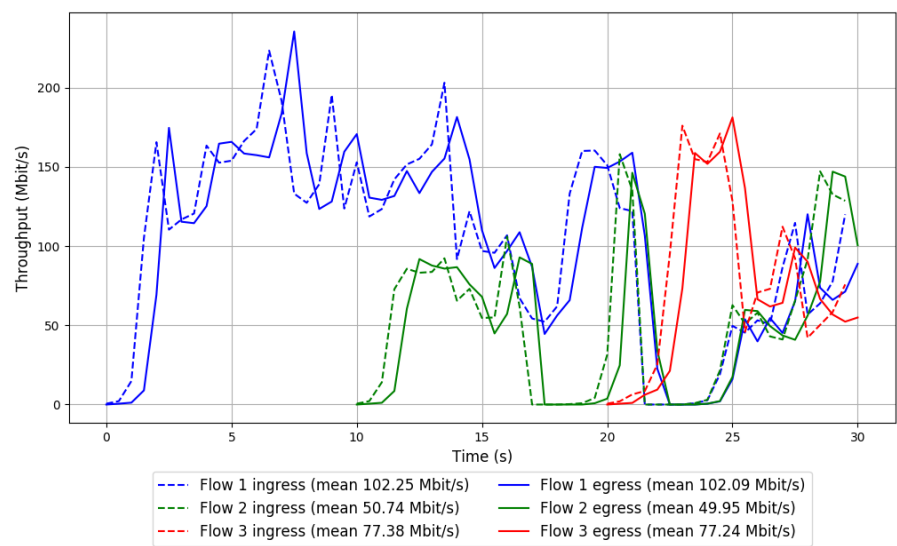


Run 10: Statistics of Copa

Start at: 2018-05-24 19:45:14
End at: 2018-05-24 19:45:44
Local clock offset: 0.149 ms
Remote clock offset: -0.073 ms

Below is generated by plot.py at 2018-05-24 20:23:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 160.63 Mbit/s
95th percentile per-packet one-way delay: 95.775 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 102.09 Mbit/s
95th percentile per-packet one-way delay: 95.952 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 49.95 Mbit/s
95th percentile per-packet one-way delay: 98.357 ms
Loss rate: 2.41%
-- Flow 3:
Average throughput: 77.24 Mbit/s
95th percentile per-packet one-way delay: 90.780 ms
Loss rate: 1.96%

Run 10: Report of Copa — Data Link

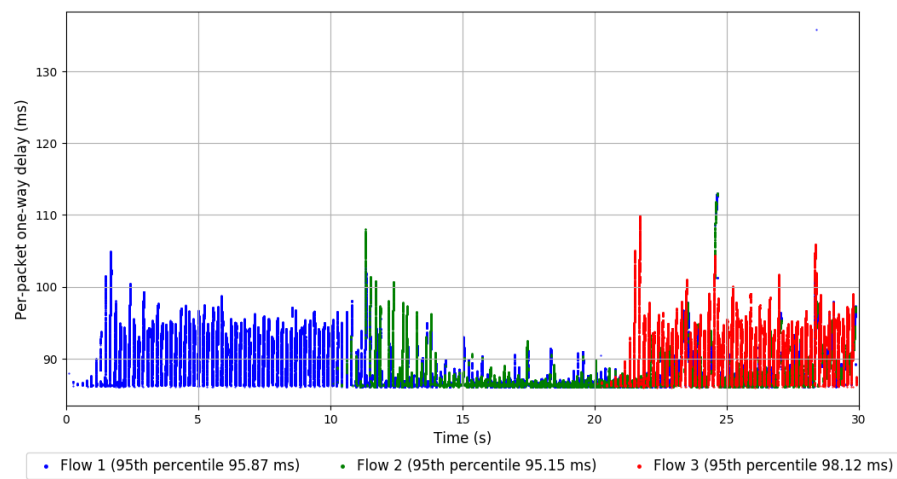
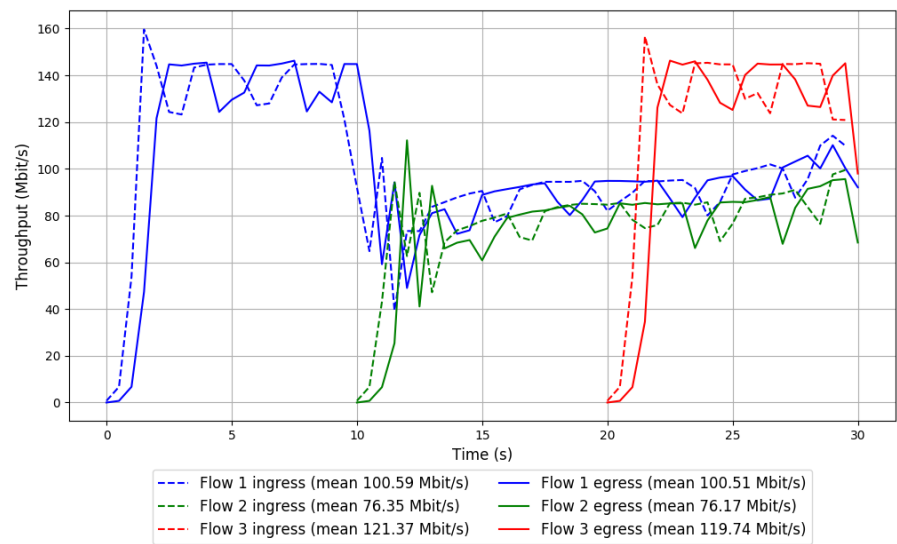


Run 1: Statistics of TCP Cubic

Start at: 2018-05-24 16:17:49
End at: 2018-05-24 16:18:19
Local clock offset: -0.144 ms
Remote clock offset: -0.087 ms

Below is generated by plot.py at 2018-05-24 20:23:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 190.35 Mbit/s
95th percentile per-packet one-way delay: 96.532 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 100.51 Mbit/s
95th percentile per-packet one-way delay: 95.873 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 76.17 Mbit/s
95th percentile per-packet one-way delay: 95.150 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 119.74 Mbit/s
95th percentile per-packet one-way delay: 98.120 ms
Loss rate: 1.97%

Run 1: Report of TCP Cubic — Data Link

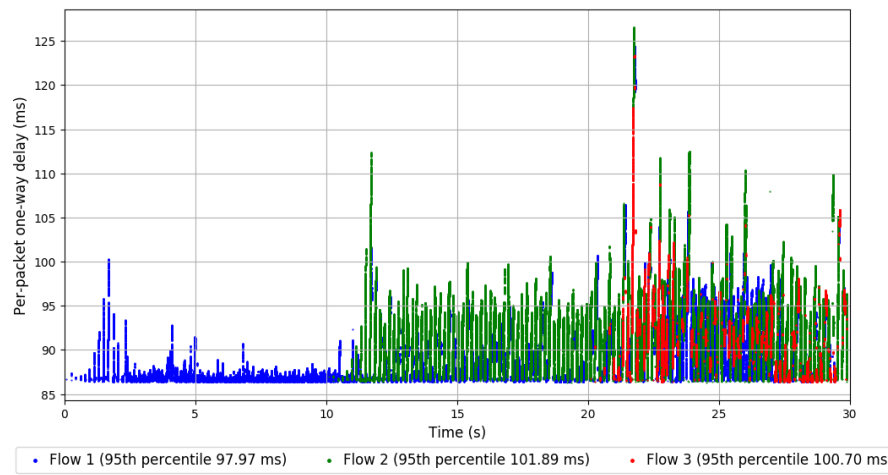
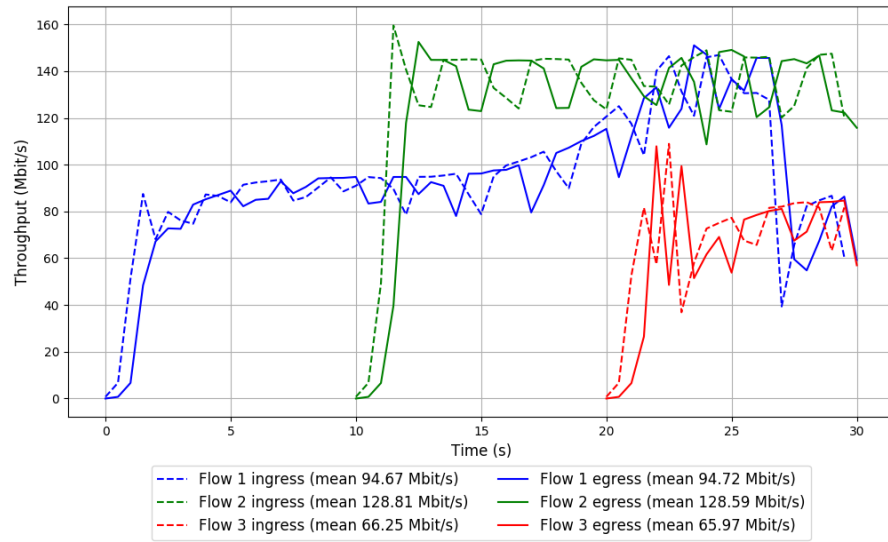


Run 2: Statistics of TCP Cubic

Start at: 2018-05-24 16:41:11
End at: 2018-05-24 16:41:41
Local clock offset: 0.297 ms
Remote clock offset: -0.061 ms

Below is generated by plot.py at 2018-05-24 20:23:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 201.74 Mbit/s
95th percentile per-packet one-way delay: 99.787 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 94.72 Mbit/s
95th percentile per-packet one-way delay: 97.975 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 128.59 Mbit/s
95th percentile per-packet one-way delay: 101.892 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 65.97 Mbit/s
95th percentile per-packet one-way delay: 100.698 ms
Loss rate: 2.15%

Run 2: Report of TCP Cubic — Data Link

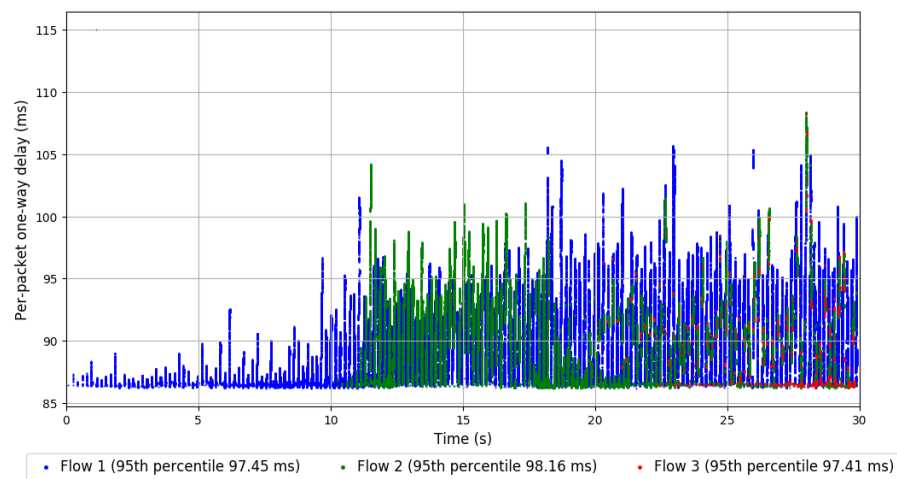
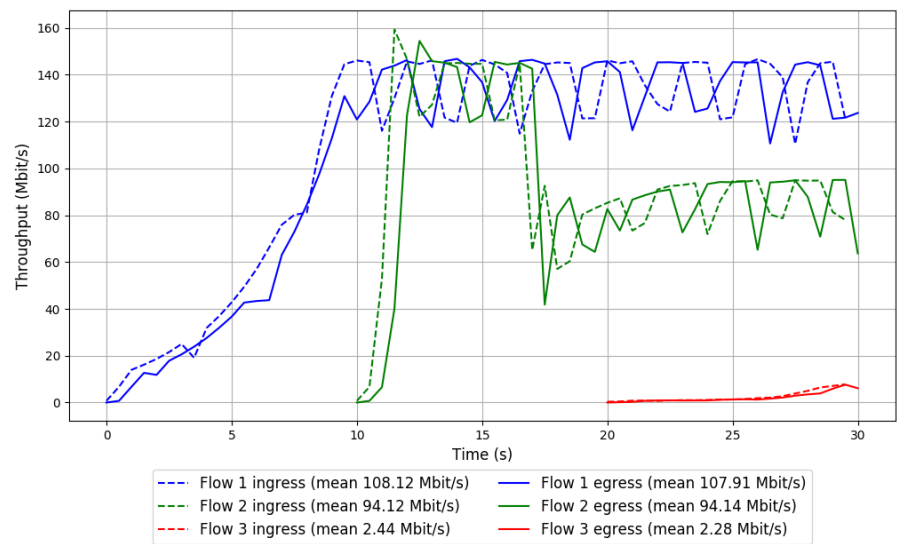


Run 3: Statistics of TCP Cubic

Start at: 2018-05-24 17:05:12
End at: 2018-05-24 17:05:42
Local clock offset: 0.108 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2018-05-24 20:23:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 171.13 Mbit/s
95th percentile per-packet one-way delay: 97.766 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 107.91 Mbit/s
95th percentile per-packet one-way delay: 97.451 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 94.14 Mbit/s
95th percentile per-packet one-way delay: 98.164 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 97.412 ms
Loss rate: 7.42%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-05-24 17:29:09

End at: 2018-05-24 17:29:39

Local clock offset: -0.171 ms

Remote clock offset: 0.055 ms

Below is generated by plot.py at 2018-05-24 20:23:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 131.39 Mbit/s

95th percentile per-packet one-way delay: 96.024 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 112.76 Mbit/s

95th percentile per-packet one-way delay: 95.940 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 8.85 Mbit/s

95th percentile per-packet one-way delay: 91.531 ms

Loss rate: 1.91%

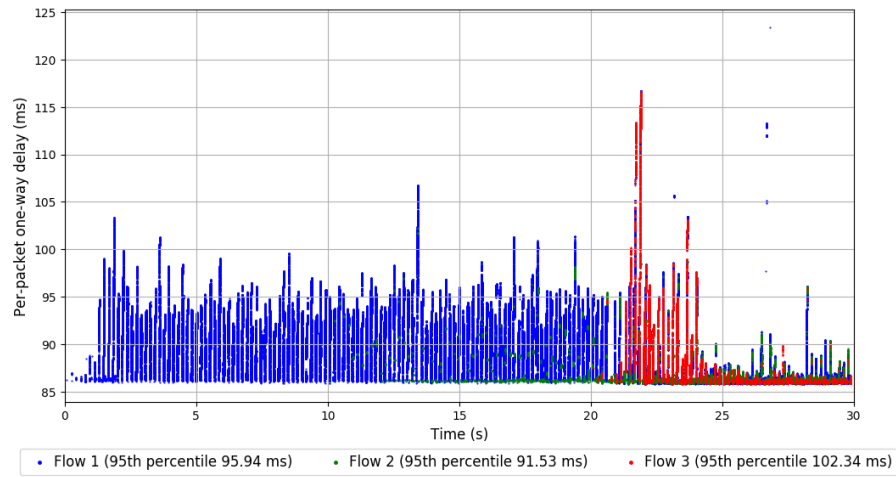
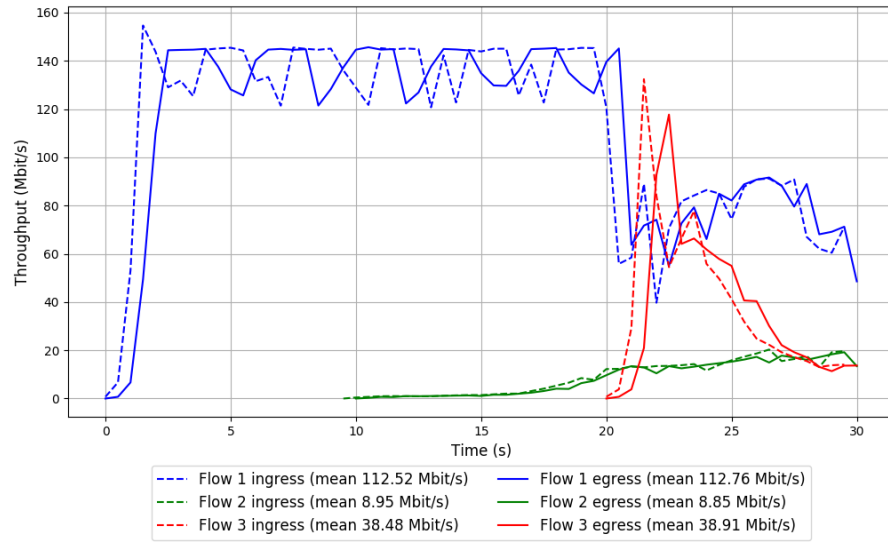
-- Flow 3:

Average throughput: 38.91 Mbit/s

95th percentile per-packet one-way delay: 102.337 ms

Loss rate: 0.65%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-05-24 17:52:44

End at: 2018-05-24 17:53:14

Local clock offset: -0.02 ms

Remote clock offset: 0.175 ms

Below is generated by plot.py at 2018-05-24 20:23:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.46 Mbit/s

95th percentile per-packet one-way delay: 91.259 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 33.85 Mbit/s

95th percentile per-packet one-way delay: 89.736 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 45.32 Mbit/s

95th percentile per-packet one-way delay: 91.822 ms

Loss rate: 0.56%

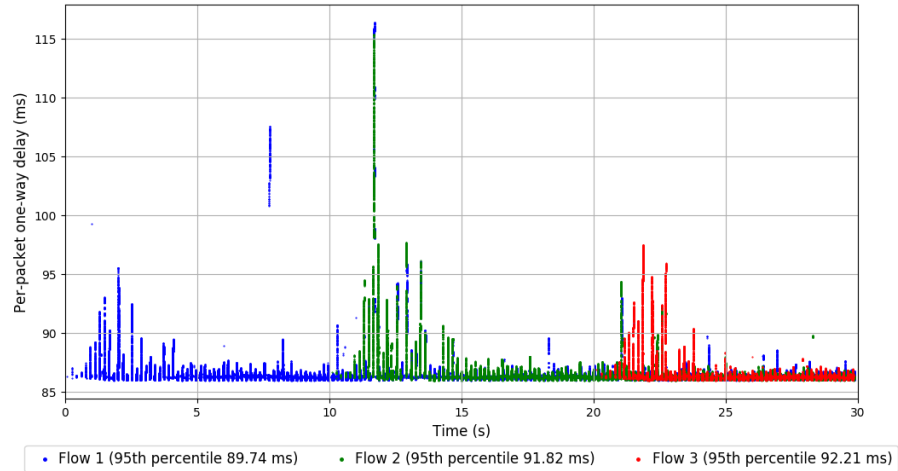
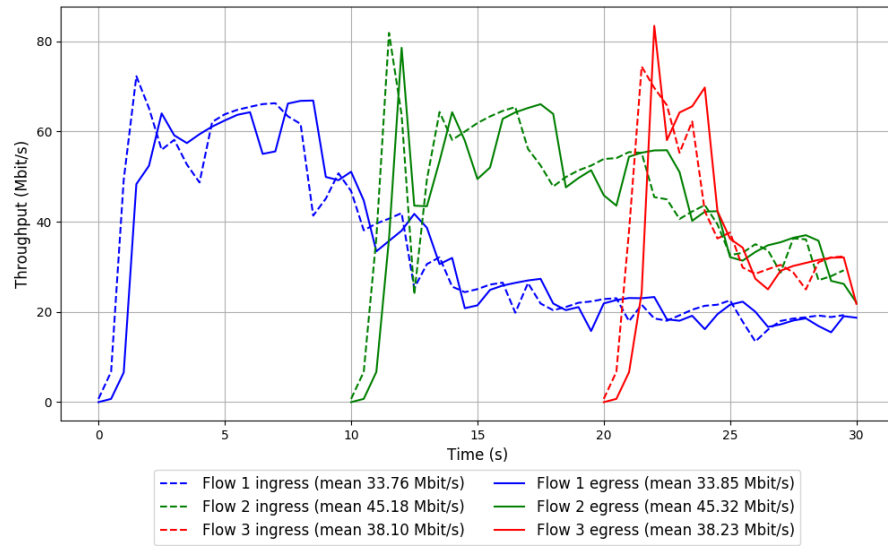
-- Flow 3:

Average throughput: 38.23 Mbit/s

95th percentile per-packet one-way delay: 92.207 ms

Loss rate: 1.44%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-05-24 18:16:03

End at: 2018-05-24 18:16:33

Local clock offset: -0.242 ms

Remote clock offset: 0.268 ms

Below is generated by plot.py at 2018-05-24 20:23:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.93 Mbit/s

95th percentile per-packet one-way delay: 95.693 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 24.01 Mbit/s

95th percentile per-packet one-way delay: 97.033 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 44.32 Mbit/s

95th percentile per-packet one-way delay: 96.119 ms

Loss rate: 0.53%

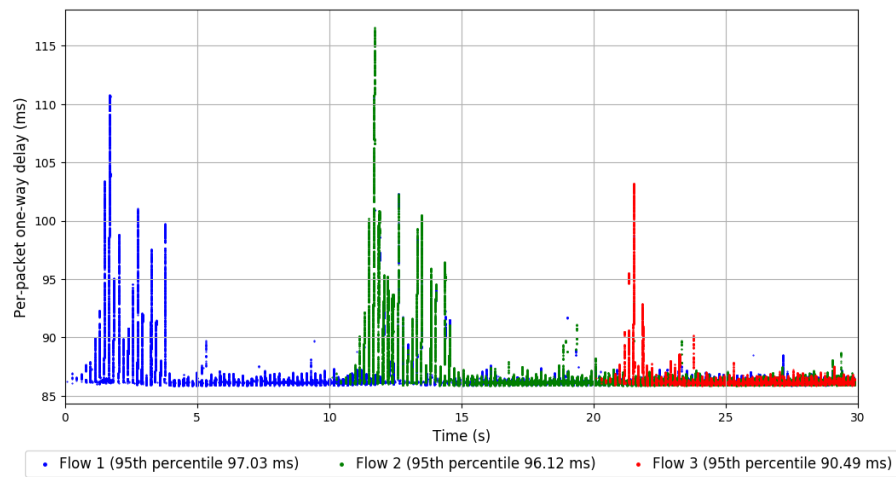
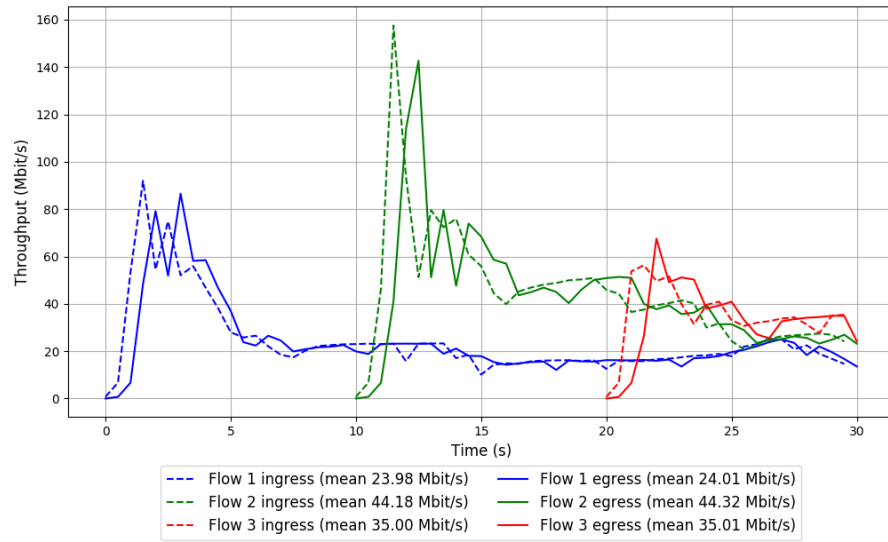
-- Flow 3:

Average throughput: 35.01 Mbit/s

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

Loss rate: 1.71%

Run 6: Report of TCP Cubic — Data Link

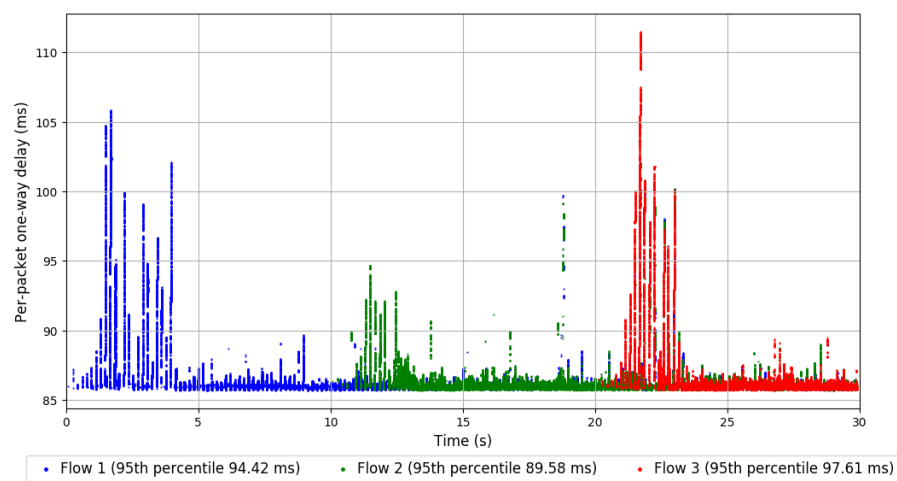
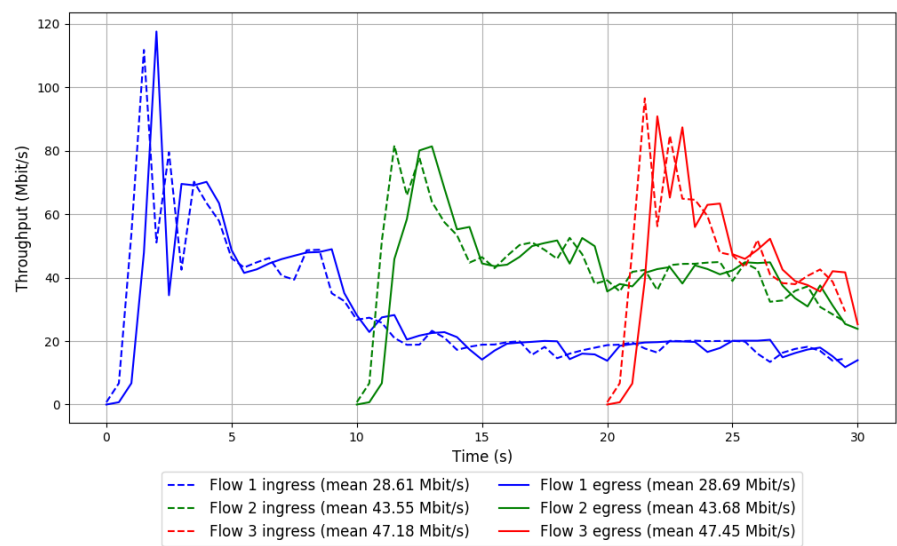


Run 7: Statistics of TCP Cubic

Start at: 2018-05-24 18:39:15
End at: 2018-05-24 18:39:45
Local clock offset: -0.184 ms
Remote clock offset: 0.391 ms

Below is generated by plot.py at 2018-05-24 20:23:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.30 Mbit/s
95th percentile per-packet one-way delay: 93.790 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 28.69 Mbit/s
95th percentile per-packet one-way delay: 94.421 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 43.68 Mbit/s
95th percentile per-packet one-way delay: 89.577 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 47.45 Mbit/s
95th percentile per-packet one-way delay: 97.611 ms
Loss rate: 1.16%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-05-24 19:02:36

End at: 2018-05-24 19:03:06

Local clock offset: 0.188 ms

Remote clock offset: 0.471 ms

Below is generated by plot.py at 2018-05-24 20:23:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.47 Mbit/s

95th percentile per-packet one-way delay: 94.226 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 31.21 Mbit/s

95th percentile per-packet one-way delay: 93.851 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 30.92 Mbit/s

95th percentile per-packet one-way delay: 92.869 ms

Loss rate: 0.38%

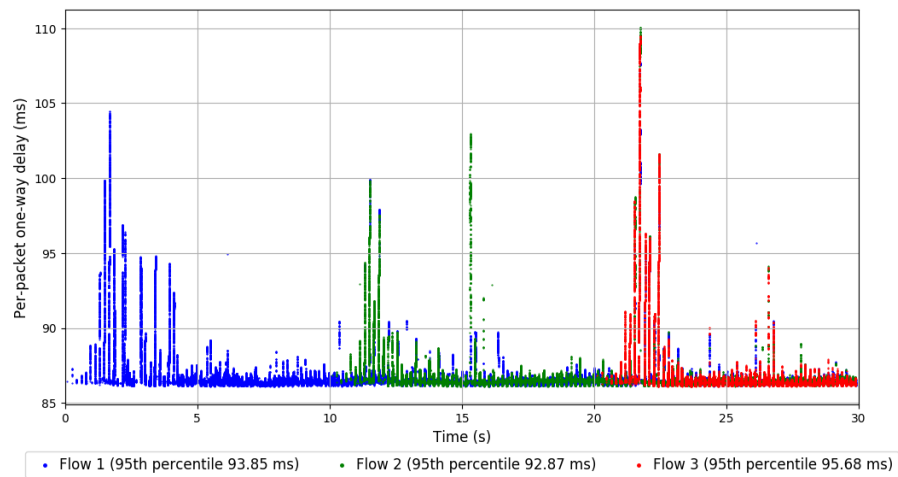
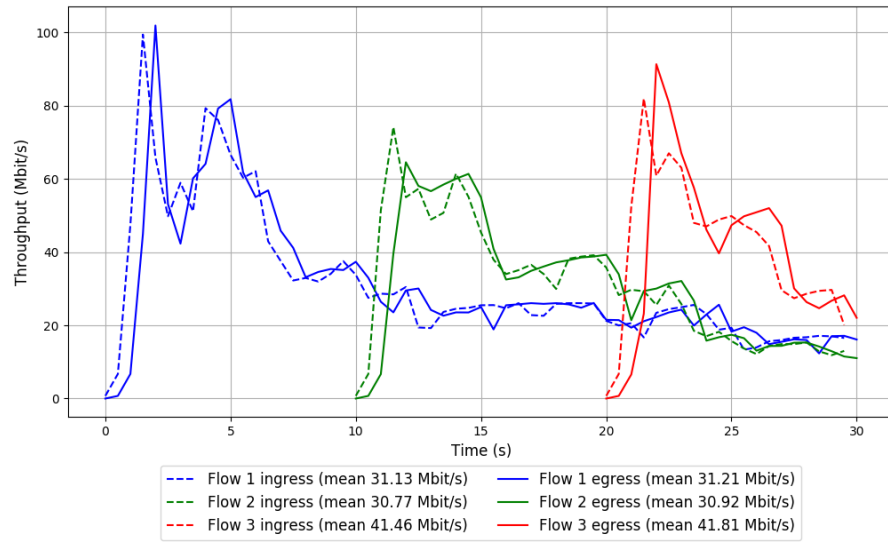
-- Flow 3:

Average throughput: 41.81 Mbit/s

95th percentile per-packet one-way delay: 95.679 ms

Loss rate: 0.90%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-05-24 19:26:31

End at: 2018-05-24 19:27:01

Local clock offset: 0.033 ms

Remote clock offset: 0.581 ms

Below is generated by plot.py at 2018-05-24 20:24:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 161.36 Mbit/s

95th percentile per-packet one-way delay: 97.316 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 75.04 Mbit/s

95th percentile per-packet one-way delay: 94.395 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 70.61 Mbit/s

95th percentile per-packet one-way delay: 98.334 ms

Loss rate: 1.18%

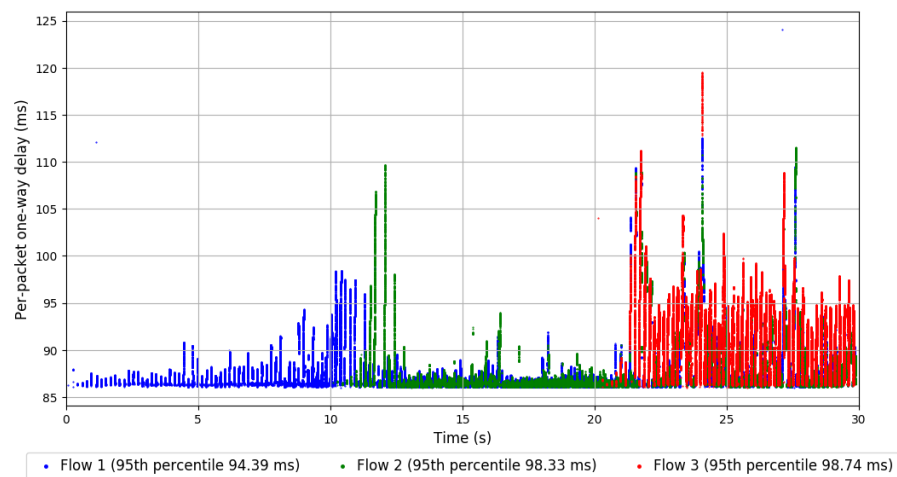
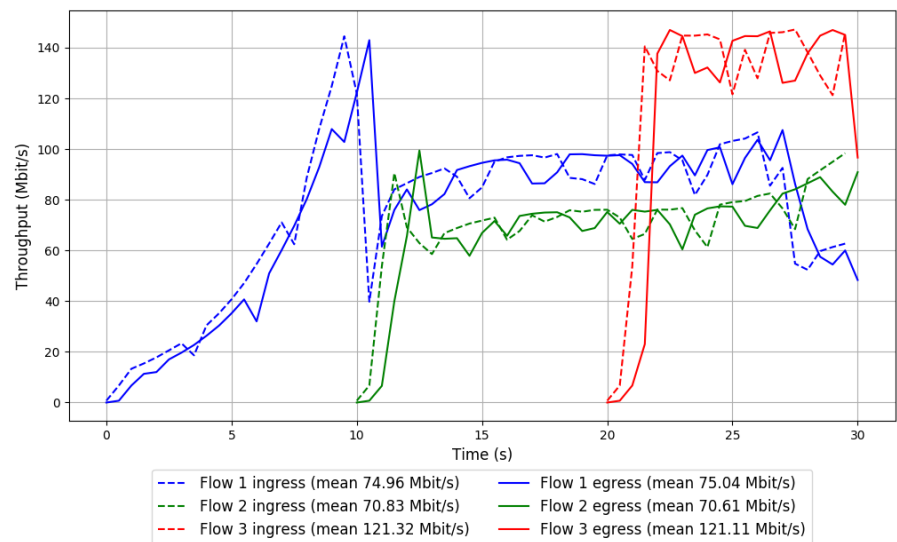
-- Flow 3:

Average throughput: 121.11 Mbit/s

95th percentile per-packet one-way delay: 98.742 ms

Loss rate: 2.05%

Run 9: Report of TCP Cubic — Data Link

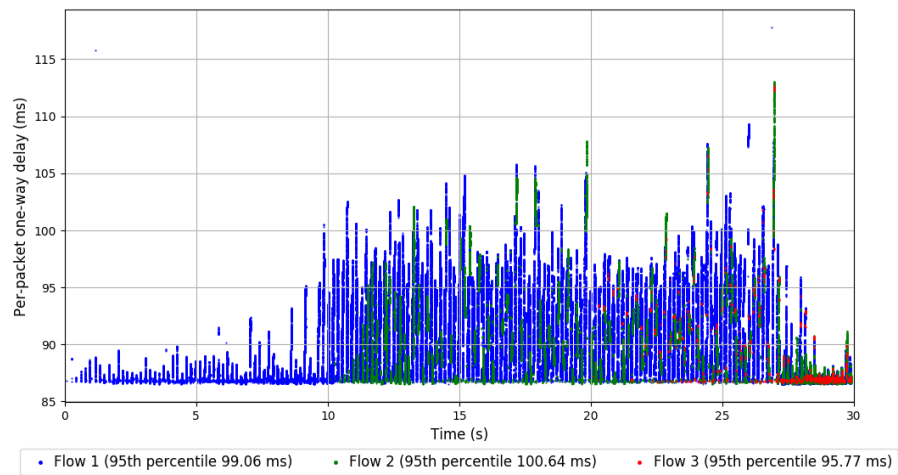
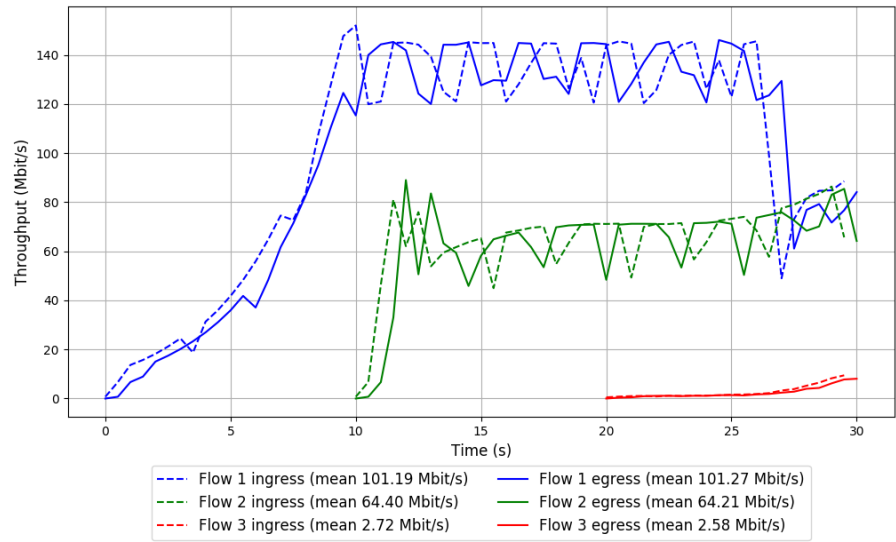


Run 10: Statistics of TCP Cubic

Start at: 2018-05-24 19:49:36
End at: 2018-05-24 19:50:06
Local clock offset: 0.417 ms
Remote clock offset: -0.165 ms

Below is generated by plot.py at 2018-05-24 20:24:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 144.73 Mbit/s
95th percentile per-packet one-way delay: 99.346 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 101.27 Mbit/s
95th percentile per-packet one-way delay: 99.058 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 64.21 Mbit/s
95th percentile per-packet one-way delay: 100.641 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 2.58 Mbit/s
95th percentile per-packet one-way delay: 95.768 ms
Loss rate: 6.88%

Run 10: Report of TCP Cubic — Data Link

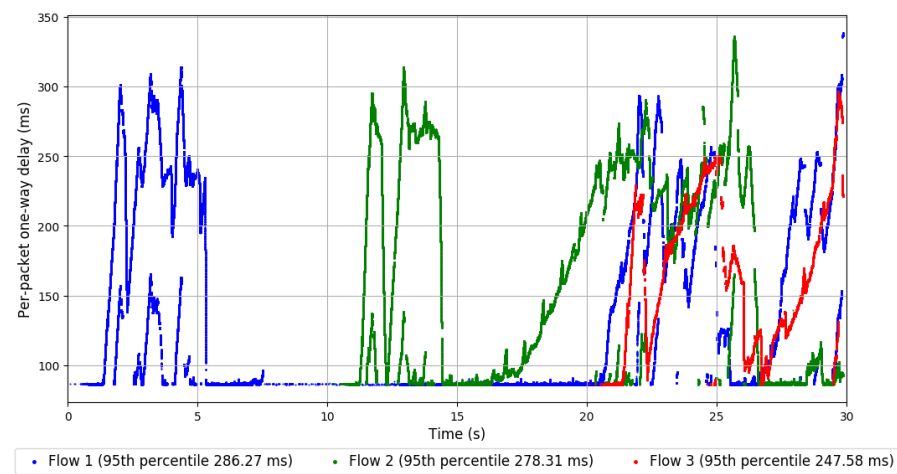
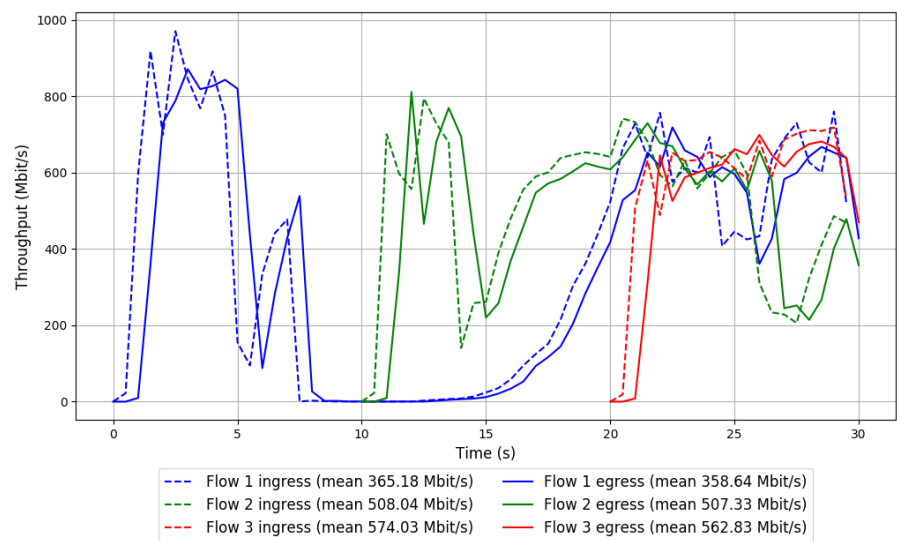


Run 1: Statistics of FillP

Start at: 2018-05-24 16:19:11
End at: 2018-05-24 16:19:41
Local clock offset: 0.176 ms
Remote clock offset: -0.081 ms

Below is generated by plot.py at 2018-05-24 20:41:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 879.81 Mbit/s
95th percentile per-packet one-way delay: 280.733 ms
Loss rate: 2.12%
-- Flow 1:
Average throughput: 358.64 Mbit/s
95th percentile per-packet one-way delay: 286.272 ms
Loss rate: 2.35%
-- Flow 2:
Average throughput: 507.33 Mbit/s
95th percentile per-packet one-way delay: 278.308 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 562.83 Mbit/s
95th percentile per-packet one-way delay: 247.583 ms
Loss rate: 3.66%

Run 1: Report of FillP — Data Link

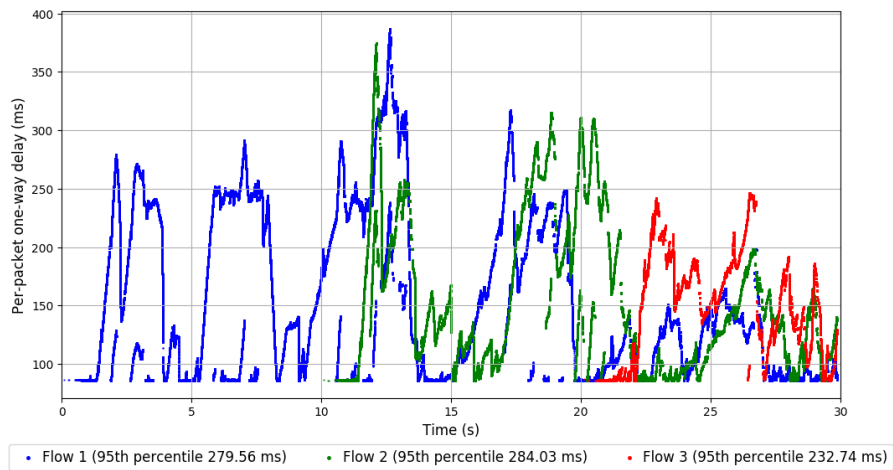
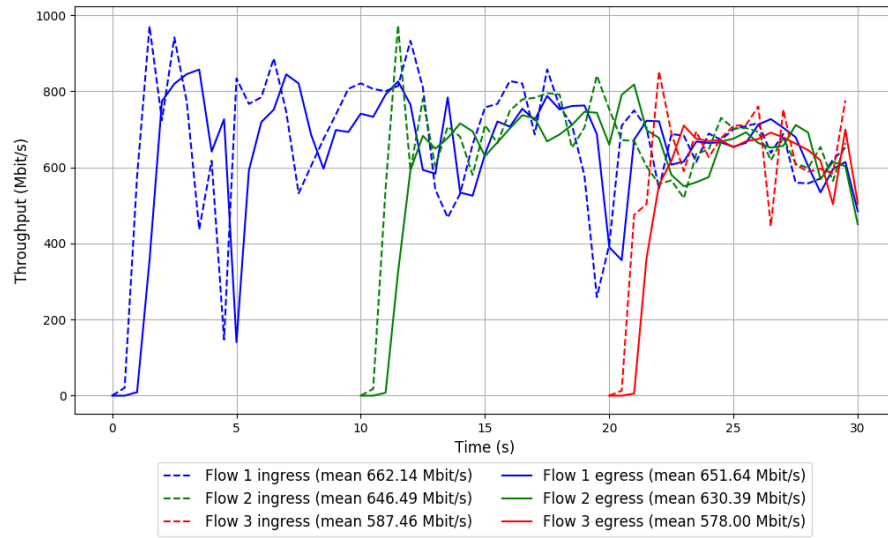


Run 2: Statistics of FillP

Start at: 2018-05-24 16:42:36
End at: 2018-05-24 16:43:06
Local clock offset: -0.037 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2018-05-24 20:50:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 1259.35 Mbit/s
95th percentile per-packet one-way delay: 276.115 ms
Loss rate: 2.73%
-- Flow 1:
Average throughput: 651.64 Mbit/s
95th percentile per-packet one-way delay: 279.561 ms
Loss rate: 2.16%
-- Flow 2:
Average throughput: 630.39 Mbit/s
95th percentile per-packet one-way delay: 284.033 ms
Loss rate: 3.33%
-- Flow 3:
Average throughput: 578.00 Mbit/s
95th percentile per-packet one-way delay: 232.744 ms
Loss rate: 3.35%

Run 2: Report of FillP — Data Link

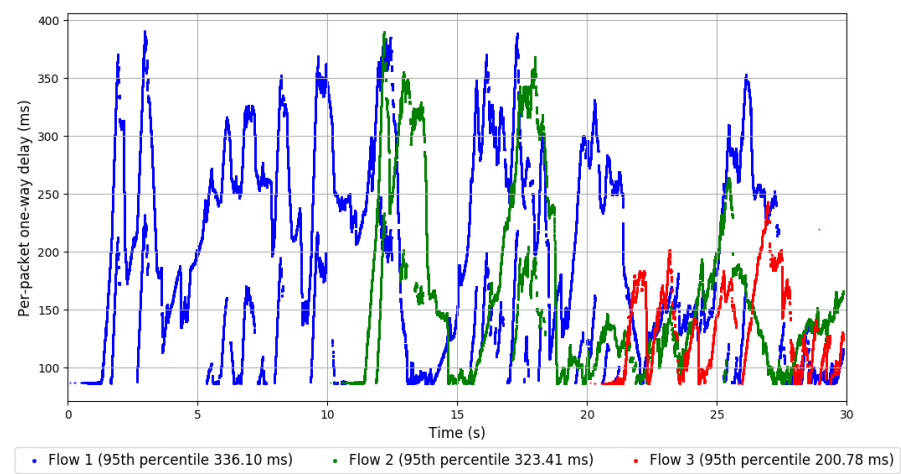
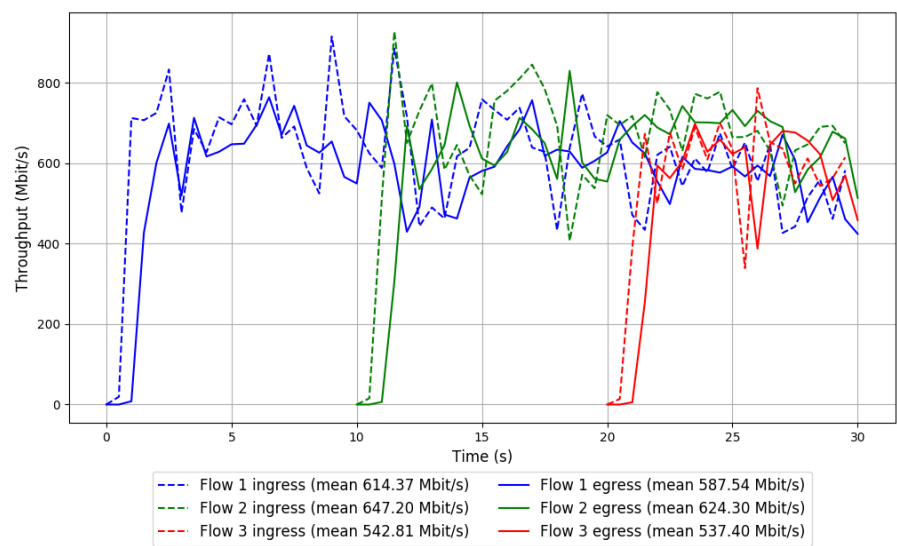


Run 3: Statistics of FillP

Start at: 2018-05-24 17:06:34
End at: 2018-05-24 17:07:04
Local clock offset: 0.27 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-05-24 20:50:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 1177.68 Mbit/s
95th percentile per-packet one-way delay: 326.204 ms
Loss rate: 4.41%
-- Flow 1:
Average throughput: 587.54 Mbit/s
95th percentile per-packet one-way delay: 336.103 ms
Loss rate: 4.92%
-- Flow 2:
Average throughput: 624.30 Mbit/s
95th percentile per-packet one-way delay: 323.410 ms
Loss rate: 4.38%
-- Flow 3:
Average throughput: 537.40 Mbit/s
95th percentile per-packet one-way delay: 200.776 ms
Loss rate: 2.73%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-05-24 17:30:28

End at: 2018-05-24 17:30:58

Local clock offset: -0.099 ms

Remote clock offset: -0.01 ms

Below is generated by plot.py at 2018-05-24 20:50:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 1215.89 Mbit/s

95th percentile per-packet one-way delay: 300.421 ms

Loss rate: 2.84%

-- Flow 1:

Average throughput: 621.33 Mbit/s

95th percentile per-packet one-way delay: 306.685 ms

Loss rate: 2.26%

-- Flow 2:

Average throughput: 602.64 Mbit/s

95th percentile per-packet one-way delay: 296.215 ms

Loss rate: 3.49%

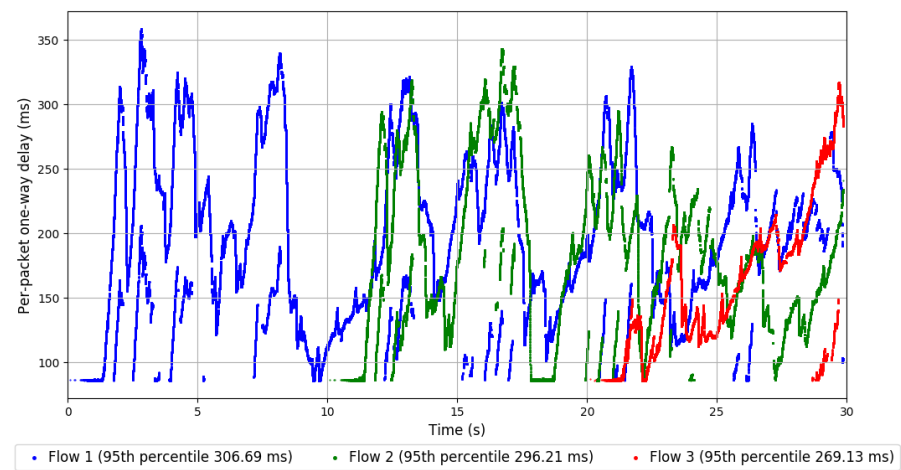
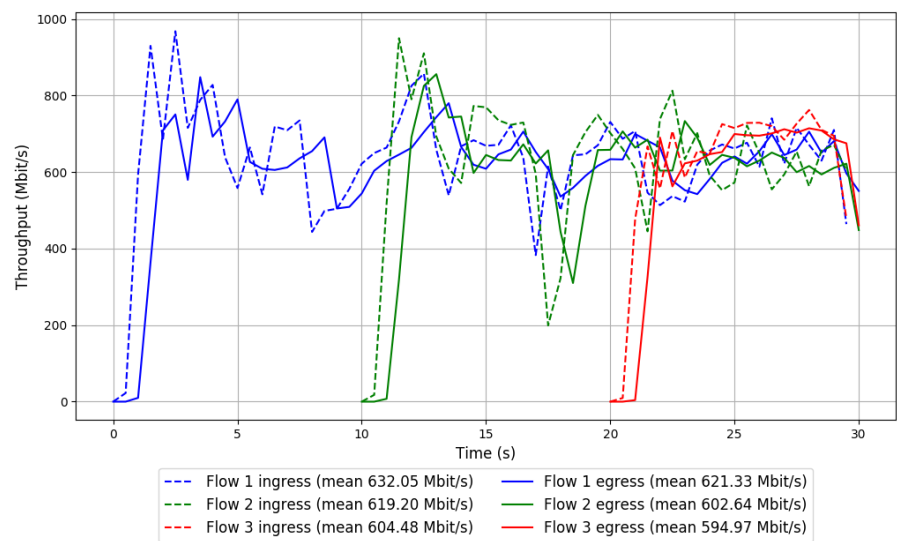
-- Flow 3:

Average throughput: 594.97 Mbit/s

95th percentile per-packet one-way delay: 269.135 ms

Loss rate: 3.30%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-05-24 17:54:00

End at: 2018-05-24 17:54:30

Local clock offset: 0.063 ms

Remote clock offset: 0.1 ms

Below is generated by plot.py at 2018-05-24 20:50:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 369.64 Mbit/s

95th percentile per-packet one-way delay: 336.097 ms

Loss rate: 8.99%

-- Flow 1:

Average throughput: 90.70 Mbit/s

95th percentile per-packet one-way delay: 341.762 ms

Loss rate: 8.61%

-- Flow 2:

Average throughput: 132.00 Mbit/s

95th percentile per-packet one-way delay: 310.540 ms

Loss rate: 2.35%

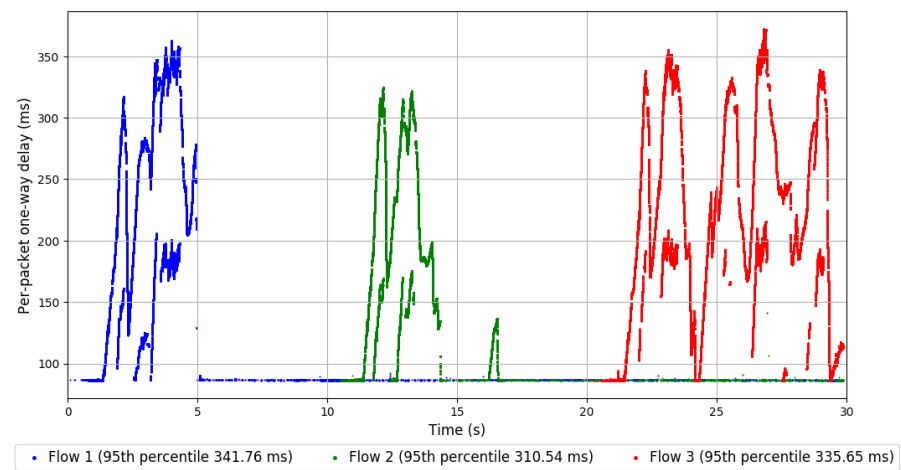
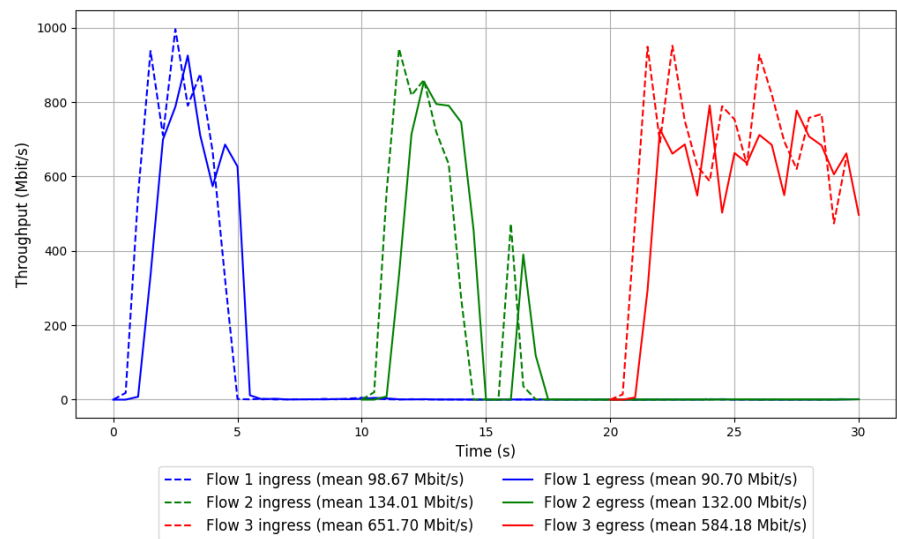
-- Flow 3:

Average throughput: 584.18 Mbit/s

95th percentile per-packet one-way delay: 335.650 ms

Loss rate: 11.92%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-05-24 18:17:19

End at: 2018-05-24 18:17:49

Local clock offset: -0.028 ms

Remote clock offset: 0.283 ms

Below is generated by plot.py at 2018-05-24 20:50:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 1215.82 Mbit/s

95th percentile per-packet one-way delay: 278.402 ms

Loss rate: 2.12%

-- Flow 1:

Average throughput: 644.30 Mbit/s

95th percentile per-packet one-way delay: 284.856 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 609.01 Mbit/s

95th percentile per-packet one-way delay: 271.408 ms

Loss rate: 3.38%

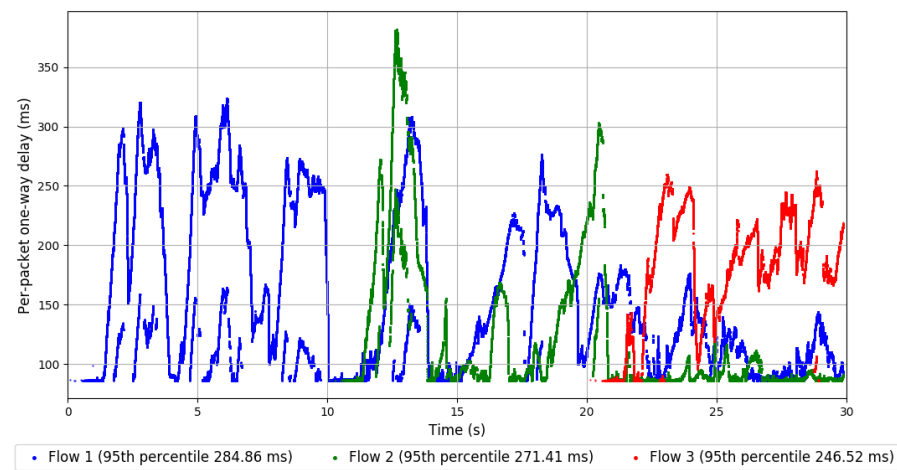
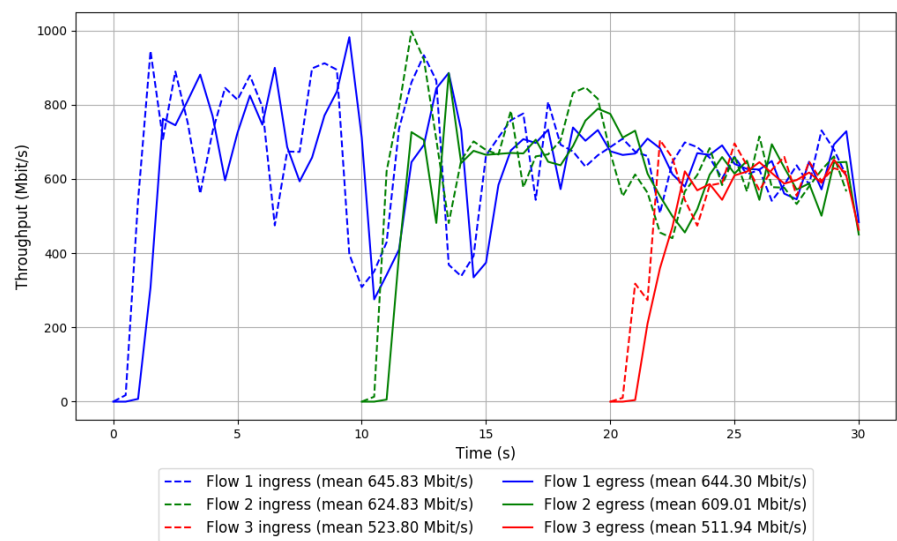
-- Flow 3:

Average throughput: 511.94 Mbit/s

95th percentile per-packet one-way delay: 246.524 ms

Loss rate: 3.96%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-05-24 18:40:31

End at: 2018-05-24 18:41:01

Local clock offset: 0.447 ms

Remote clock offset: 0.393 ms

Below is generated by plot.py at 2018-05-24 20:50:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 1086.67 Mbit/s

95th percentile per-packet one-way delay: 294.914 ms

Loss rate: 2.22%

-- Flow 1:

Average throughput: 492.99 Mbit/s

95th percentile per-packet one-way delay: 296.614 ms

Loss rate: 2.67%

-- Flow 2:

Average throughput: 623.27 Mbit/s

95th percentile per-packet one-way delay: 300.852 ms

Loss rate: 2.12%

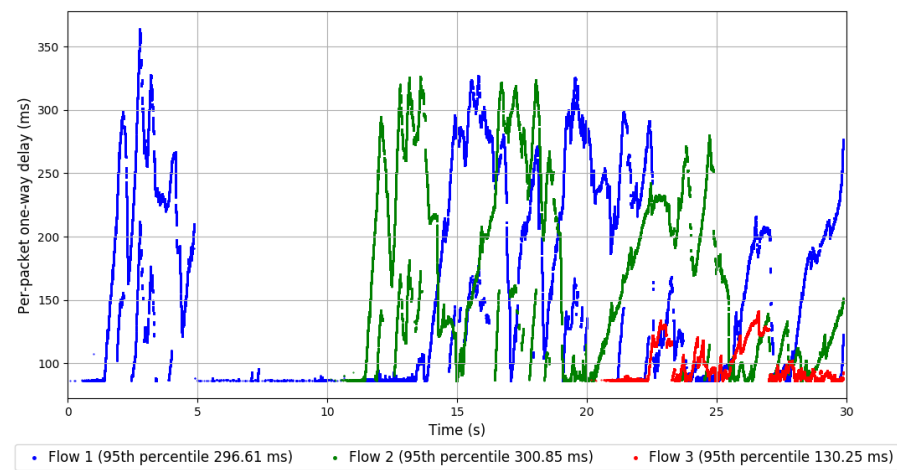
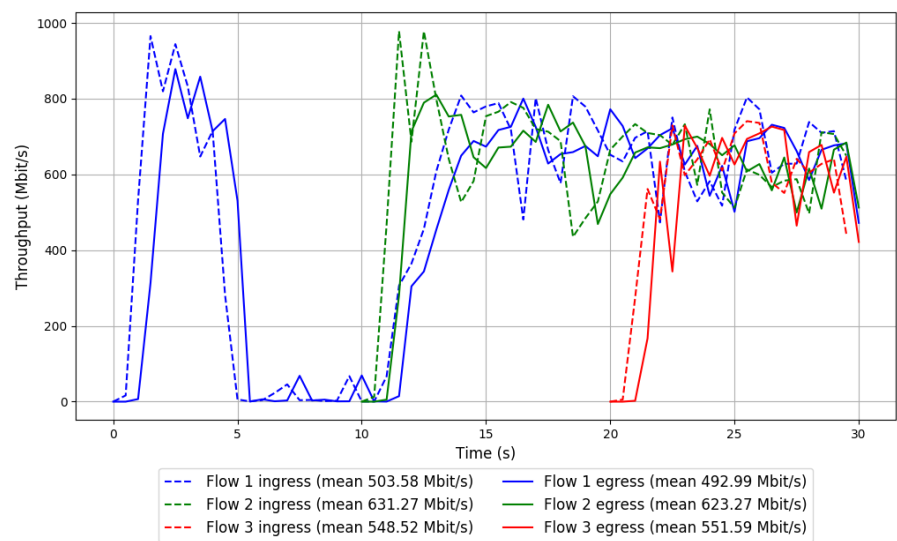
-- Flow 3:

Average throughput: 551.59 Mbit/s

95th percentile per-packet one-way delay: 130.250 ms

Loss rate: 1.20%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-05-24 19:03:53

End at: 2018-05-24 19:04:23

Local clock offset: -0.134 ms

Remote clock offset: 0.478 ms

Below is generated by plot.py at 2018-05-24 20:51:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 1171.46 Mbit/s

95th percentile per-packet one-way delay: 285.326 ms

Loss rate: 1.94%

-- Flow 1:

Average throughput: 606.43 Mbit/s

95th percentile per-packet one-way delay: 300.968 ms

Loss rate: 1.90%

-- Flow 2:

Average throughput: 593.37 Mbit/s

95th percentile per-packet one-way delay: 273.380 ms

Loss rate: 2.14%

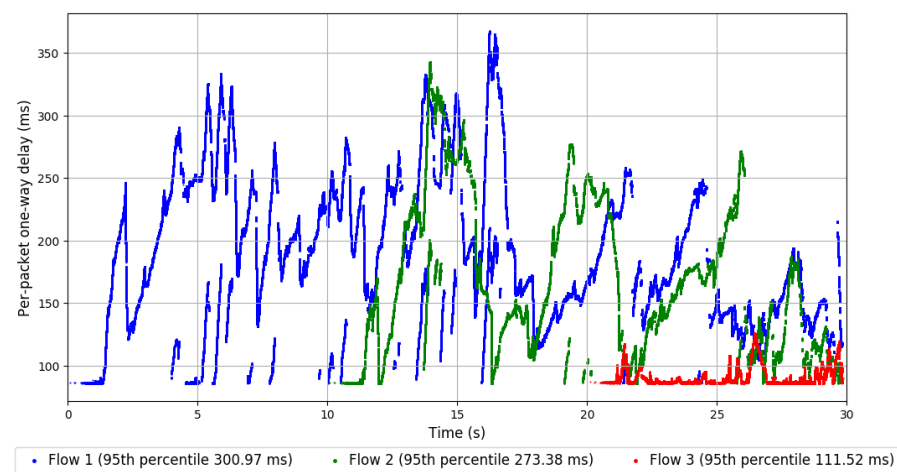
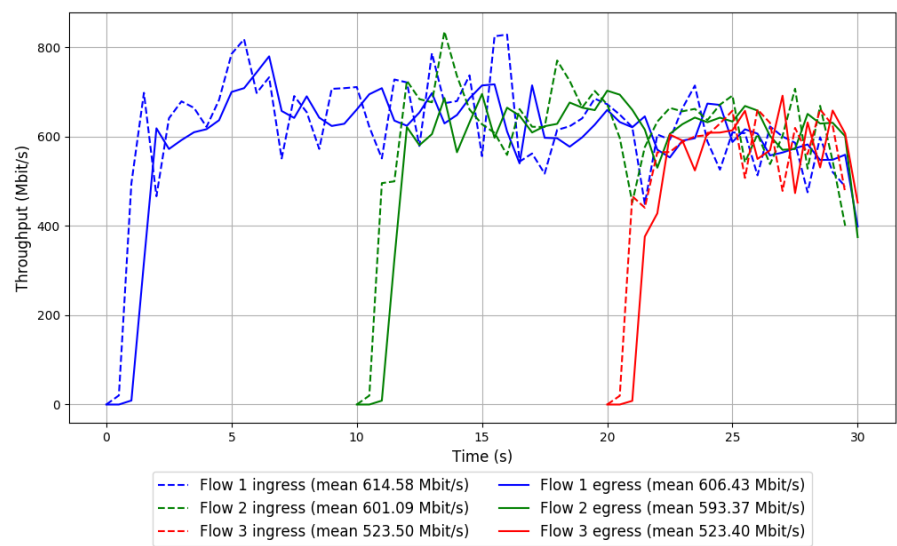
-- Flow 3:

Average throughput: 523.40 Mbit/s

95th percentile per-packet one-way delay: 111.523 ms

Loss rate: 1.62%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-05-24 19:27:52

End at: 2018-05-24 19:28:22

Local clock offset: 0.129 ms

Remote clock offset: 0.567 ms

Below is generated by plot.py at 2018-05-24 20:51:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 849.98 Mbit/s

95th percentile per-packet one-way delay: 304.970 ms

Loss rate: 3.96%

-- Flow 1:

Average throughput: 231.02 Mbit/s

95th percentile per-packet one-way delay: 302.254 ms

Loss rate: 5.14%

-- Flow 2:

Average throughput: 640.59 Mbit/s

95th percentile per-packet one-way delay: 312.875 ms

Loss rate: 3.92%

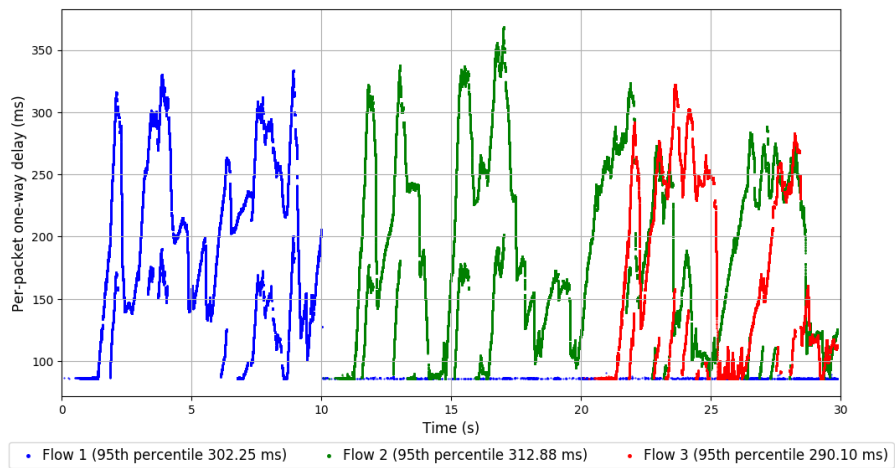
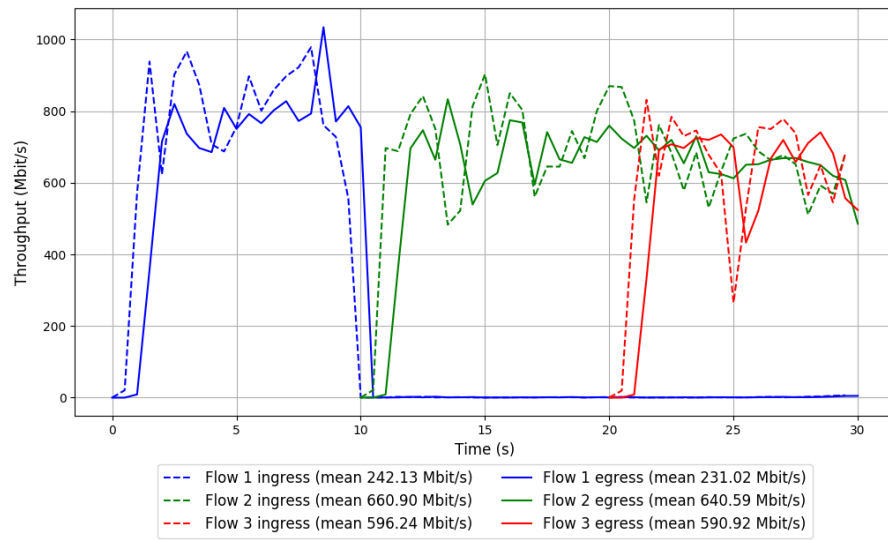
-- Flow 3:

Average throughput: 590.92 Mbit/s

95th percentile per-packet one-way delay: 290.099 ms

Loss rate: 2.62%

Run 9: Report of FillP — Data Link

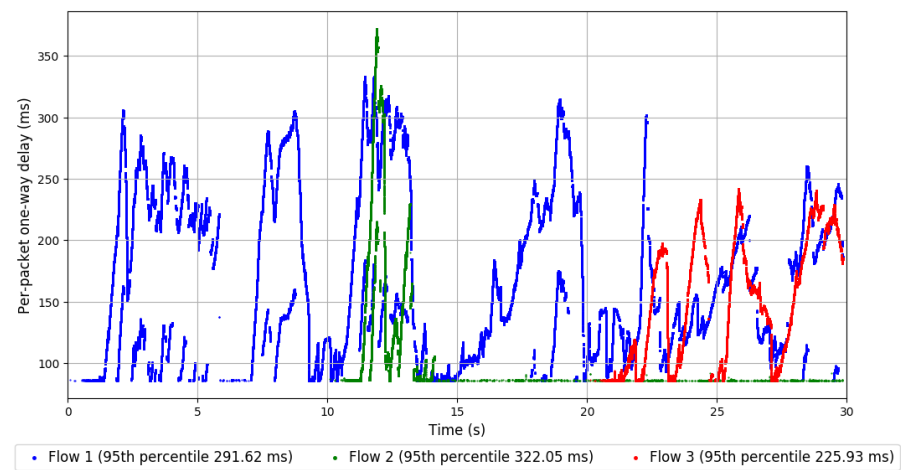
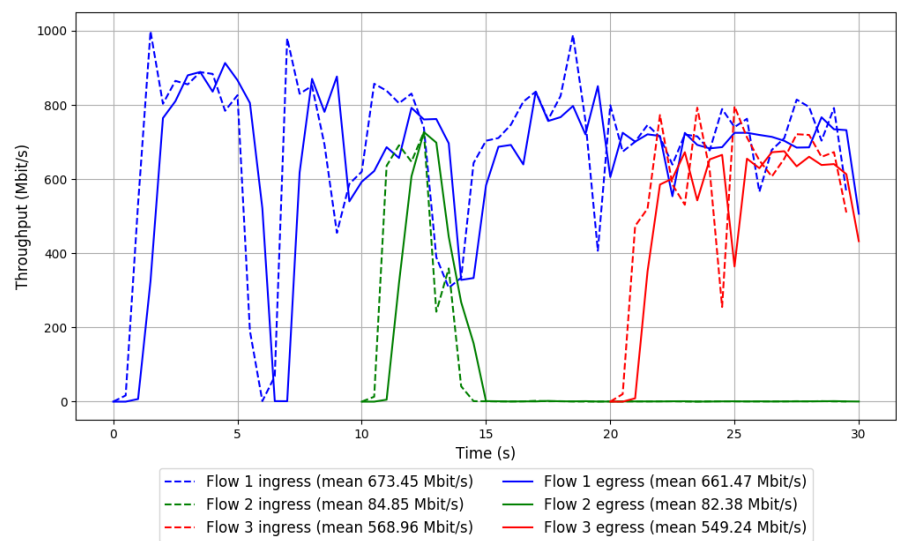


Run 10: Statistics of FillP

Start at: 2018-05-24 19:50:57
End at: 2018-05-24 19:51:27
Local clock offset: -0.287 ms
Remote clock offset: -0.165 ms

Below is generated by plot.py at 2018-05-24 21:04:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 895.83 Mbit/s
95th percentile per-packet one-way delay: 289.381 ms
Loss rate: 3.01%
-- Flow 1:
Average throughput: 661.47 Mbit/s
95th percentile per-packet one-way delay: 291.621 ms
Loss rate: 2.35%
-- Flow 2:
Average throughput: 82.38 Mbit/s
95th percentile per-packet one-way delay: 322.047 ms
Loss rate: 3.82%
-- Flow 3:
Average throughput: 549.24 Mbit/s
95th percentile per-packet one-way delay: 225.929 ms
Loss rate: 5.16%

Run 10: Report of FillP — Data Link

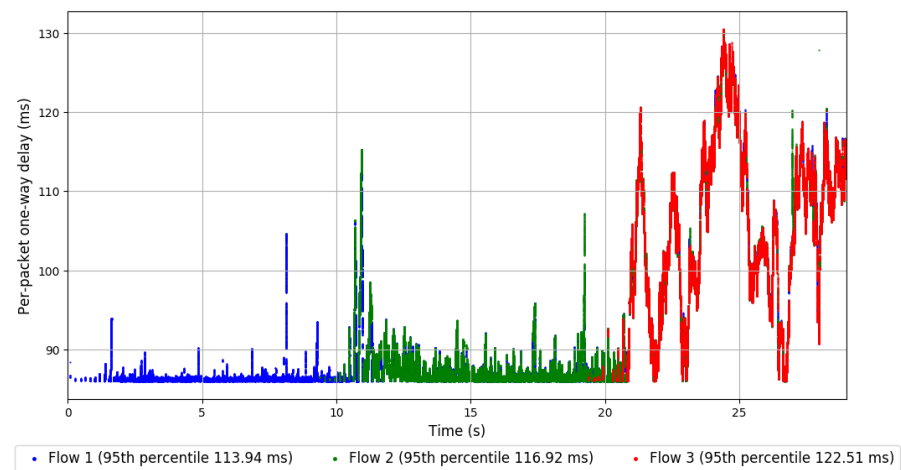
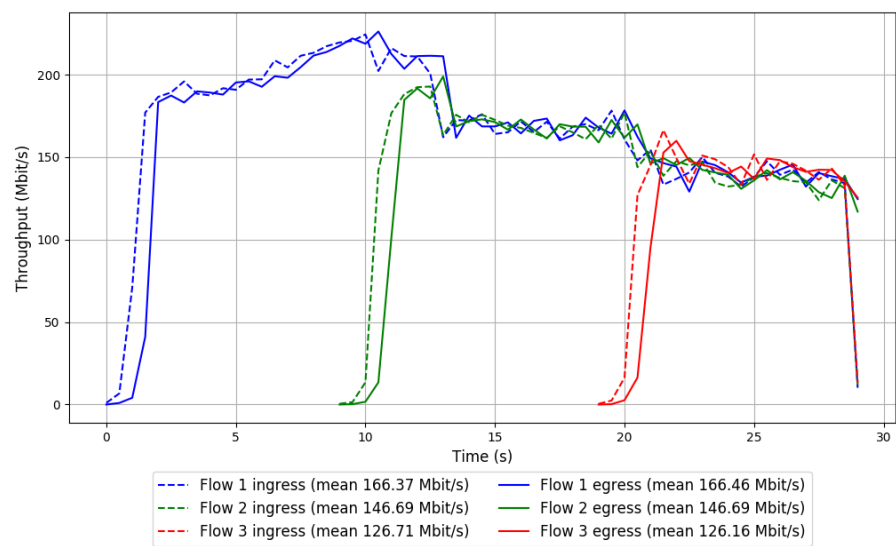


Run 1: Statistics of Indigo

Start at: 2018-05-24 16:09:46
End at: 2018-05-24 16:10:16
Local clock offset: -0.224 ms
Remote clock offset: -0.067 ms

Below is generated by plot.py at 2018-05-24 21:04:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 307.70 Mbit/s
95th percentile per-packet one-way delay: 117.040 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 166.46 Mbit/s
95th percentile per-packet one-way delay: 113.937 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 146.69 Mbit/s
95th percentile per-packet one-way delay: 116.916 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 126.16 Mbit/s
95th percentile per-packet one-way delay: 122.510 ms
Loss rate: 2.20%

Run 1: Report of Indigo — Data Link

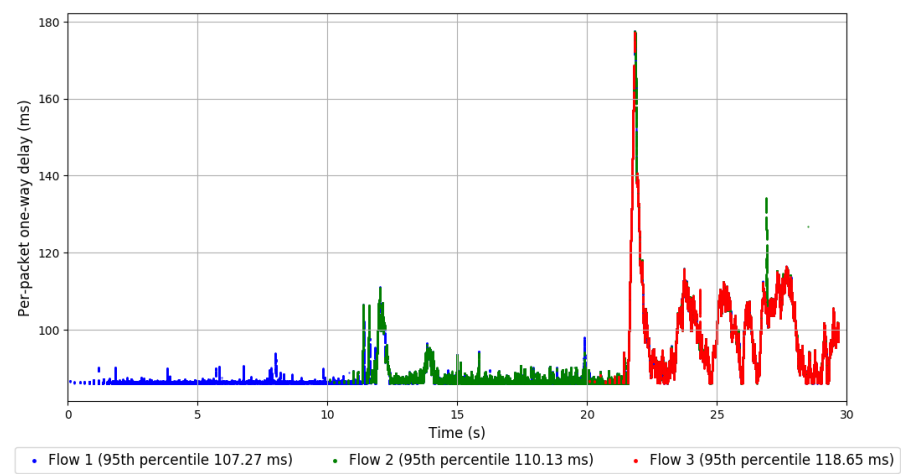
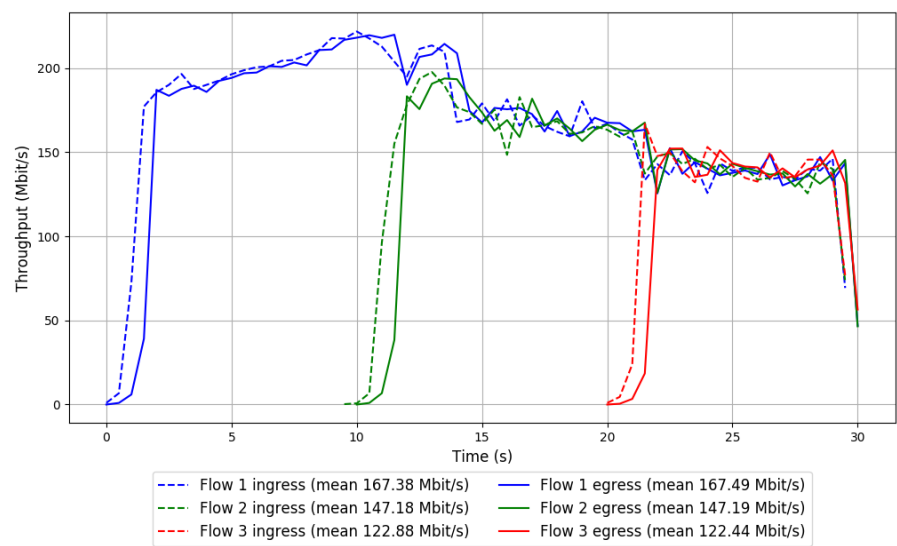


Run 2: Statistics of Indigo

Start at: 2018-05-24 16:33:24
End at: 2018-05-24 16:33:54
Local clock offset: -0.09 ms
Remote clock offset: -0.118 ms

Below is generated by plot.py at 2018-05-24 21:04:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 304.66 Mbit/s
95th percentile per-packet one-way delay: 109.921 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 167.49 Mbit/s
95th percentile per-packet one-way delay: 107.269 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 147.19 Mbit/s
95th percentile per-packet one-way delay: 110.134 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 122.44 Mbit/s
95th percentile per-packet one-way delay: 118.649 ms
Loss rate: 2.13%

Run 2: Report of Indigo — Data Link

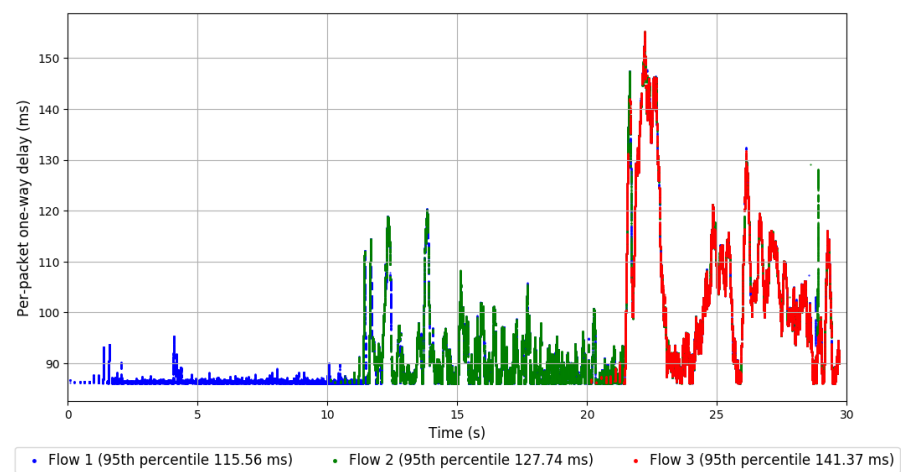
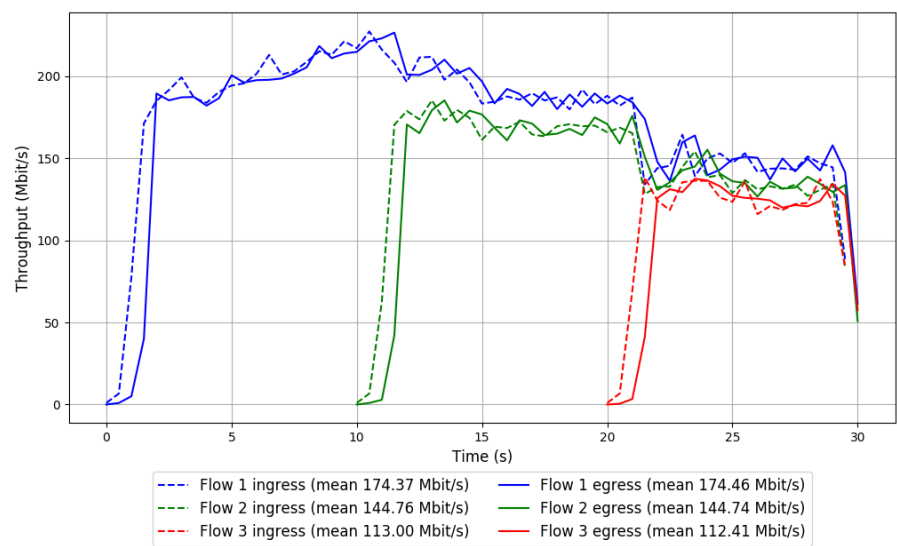


Run 3: Statistics of Indigo

Start at: 2018-05-24 16:57:10
End at: 2018-05-24 16:57:40
Local clock offset: 0.01 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2018-05-24 21:04:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 306.39 Mbit/s
95th percentile per-packet one-way delay: 126.146 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 174.46 Mbit/s
95th percentile per-packet one-way delay: 115.559 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 144.74 Mbit/s
95th percentile per-packet one-way delay: 127.741 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 112.41 Mbit/s
95th percentile per-packet one-way delay: 141.367 ms
Loss rate: 2.27%

Run 3: Report of Indigo — Data Link

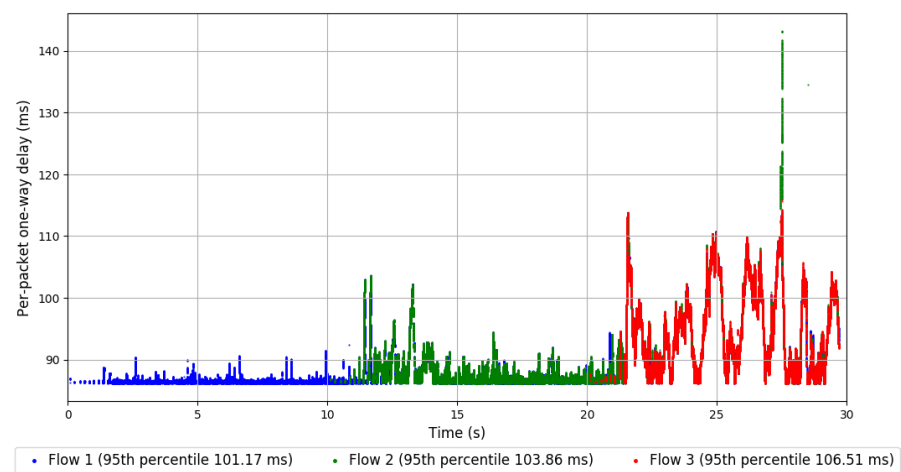
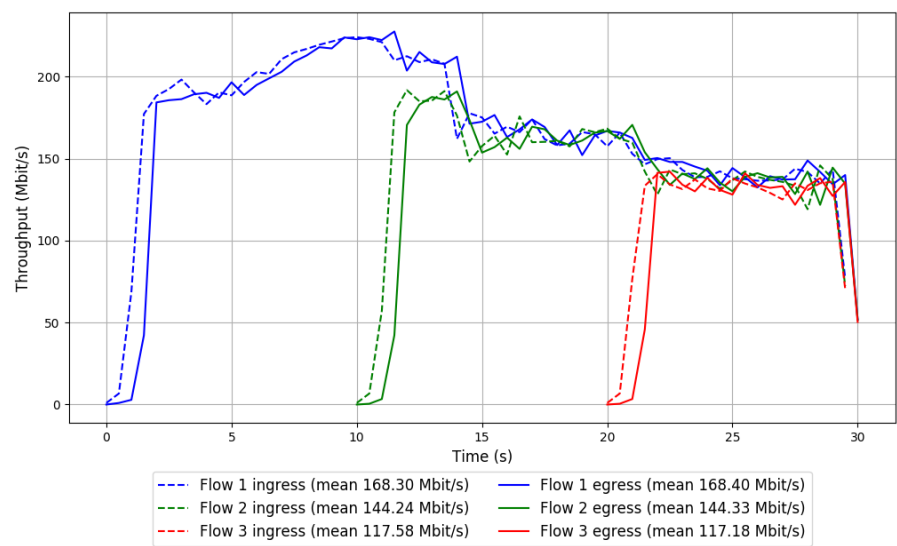


Run 4: Statistics of Indigo

Start at: 2018-05-24 17:21:03
End at: 2018-05-24 17:21:33
Local clock offset: 0.078 ms
Remote clock offset: -0.011 ms

Below is generated by plot.py at 2018-05-24 21:04:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 301.67 Mbit/s
95th percentile per-packet one-way delay: 103.538 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 168.40 Mbit/s
95th percentile per-packet one-way delay: 101.165 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 144.33 Mbit/s
95th percentile per-packet one-way delay: 103.855 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 117.18 Mbit/s
95th percentile per-packet one-way delay: 106.509 ms
Loss rate: 2.12%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-05-24 17:44:37

End at: 2018-05-24 17:45:07

Local clock offset: -0.271 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-05-24 21:04:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 303.60 Mbit/s

95th percentile per-packet one-way delay: 115.118 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 169.83 Mbit/s

95th percentile per-packet one-way delay: 112.263 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 142.76 Mbit/s

95th percentile per-packet one-way delay: 115.342 ms

Loss rate: 0.90%

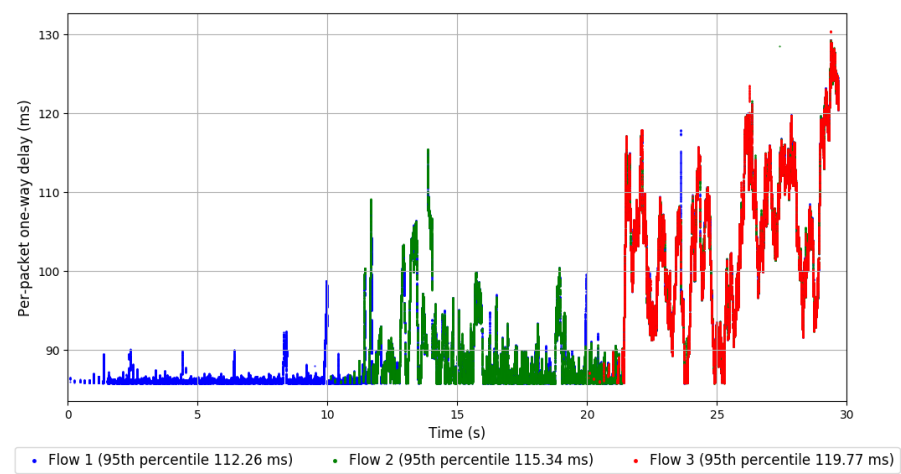
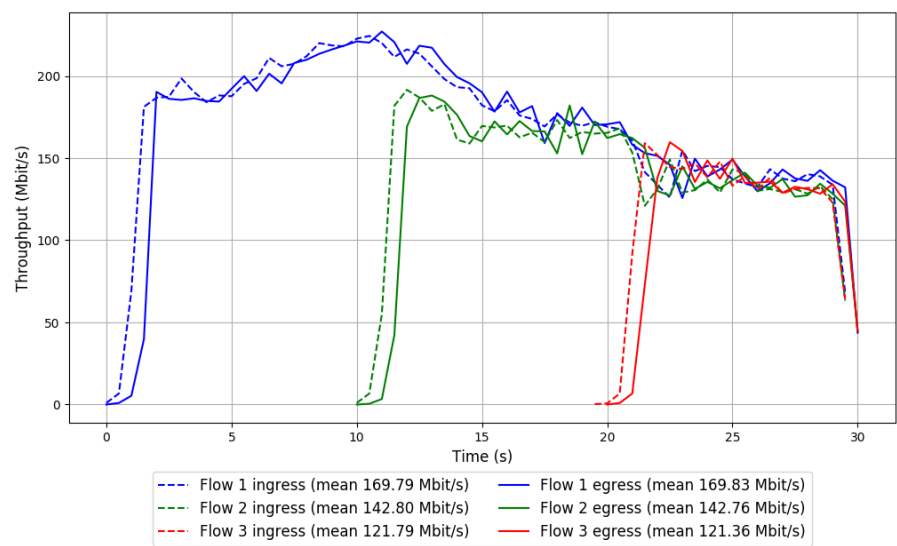
-- Flow 3:

Average throughput: 121.36 Mbit/s

95th percentile per-packet one-way delay: 119.772 ms

Loss rate: 2.12%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-05-24 18:07:44

End at: 2018-05-24 18:08:14

Local clock offset: -0.532 ms

Remote clock offset: 0.254 ms

Below is generated by plot.py at 2018-05-24 21:04:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 299.51 Mbit/s

95th percentile per-packet one-way delay: 125.478 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 167.47 Mbit/s

95th percentile per-packet one-way delay: 122.361 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 143.13 Mbit/s

95th percentile per-packet one-way delay: 125.635 ms

Loss rate: 0.75%

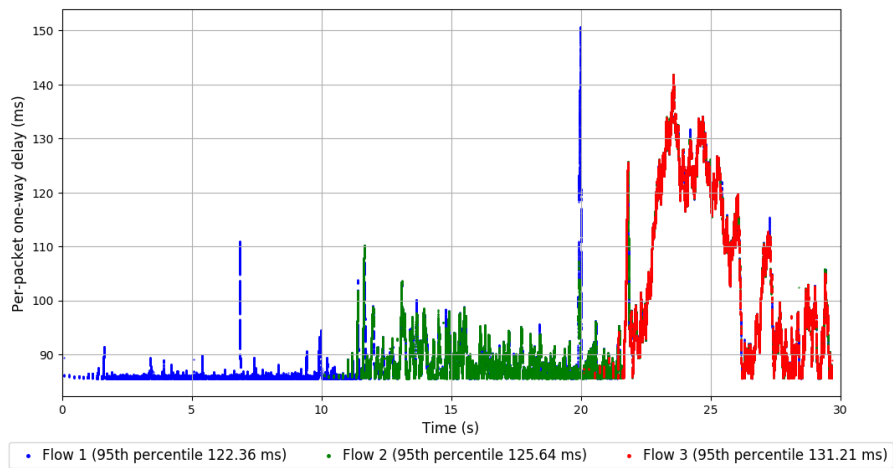
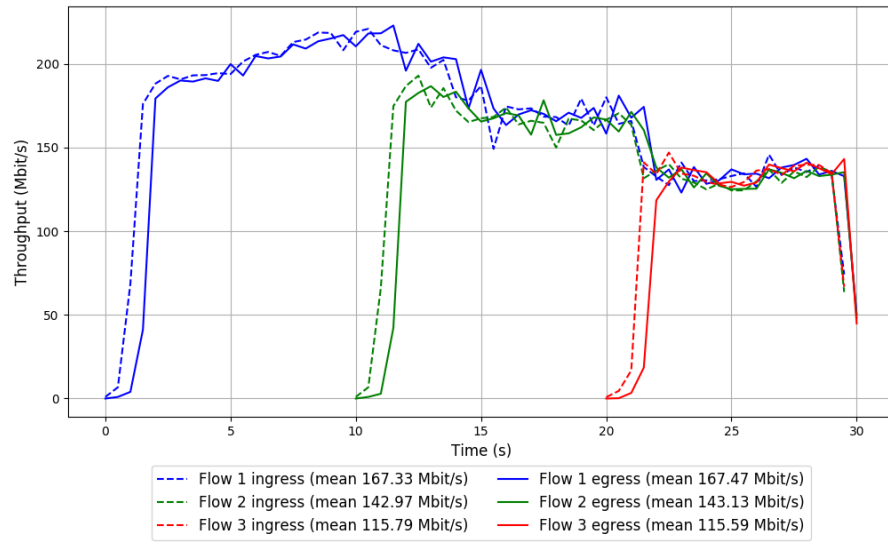
-- Flow 3:

Average throughput: 115.59 Mbit/s

95th percentile per-packet one-way delay: 131.211 ms

Loss rate: 1.93%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-05-24 18:31:33

End at: 2018-05-24 18:32:03

Local clock offset: 0.168 ms

Remote clock offset: 0.334 ms

Below is generated by plot.py at 2018-05-24 21:04:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.79 Mbit/s

95th percentile per-packet one-way delay: 114.378 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 169.88 Mbit/s

95th percentile per-packet one-way delay: 108.880 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 148.60 Mbit/s

95th percentile per-packet one-way delay: 114.920 ms

Loss rate: 0.80%

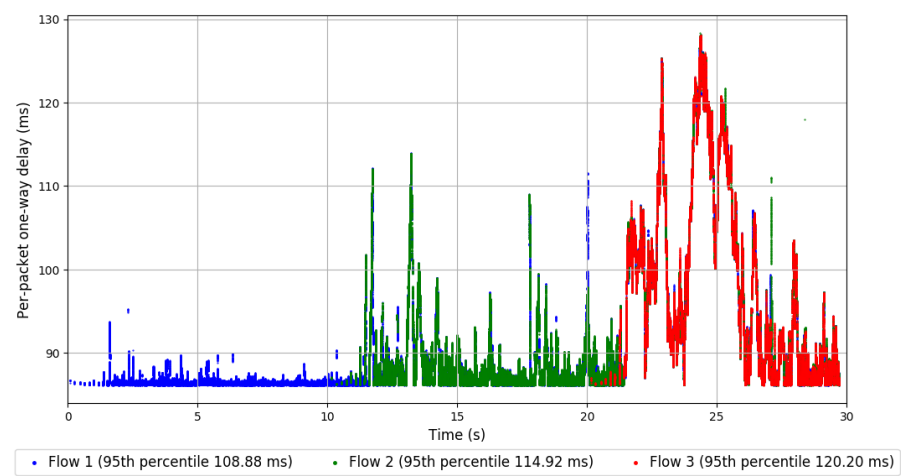
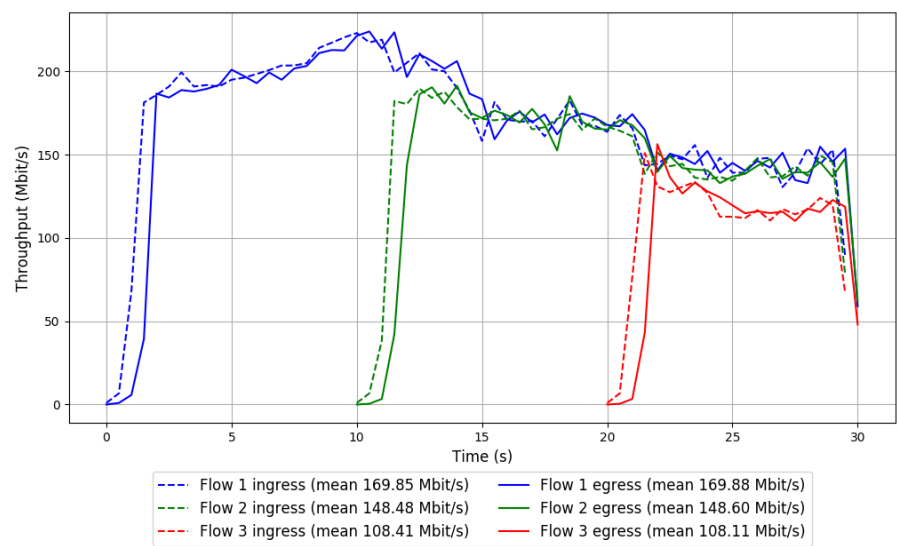
-- Flow 3:

Average throughput: 108.11 Mbit/s

95th percentile per-packet one-way delay: 120.198 ms

Loss rate: 2.04%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-05-24 18:54:40

End at: 2018-05-24 18:55:10

Local clock offset: 0.187 ms

Remote clock offset: 0.401 ms

Below is generated by plot.py at 2018-05-24 21:04:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 300.74 Mbit/s

95th percentile per-packet one-way delay: 125.187 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 163.80 Mbit/s

95th percentile per-packet one-way delay: 119.400 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 143.85 Mbit/s

95th percentile per-packet one-way delay: 125.497 ms

Loss rate: 0.73%

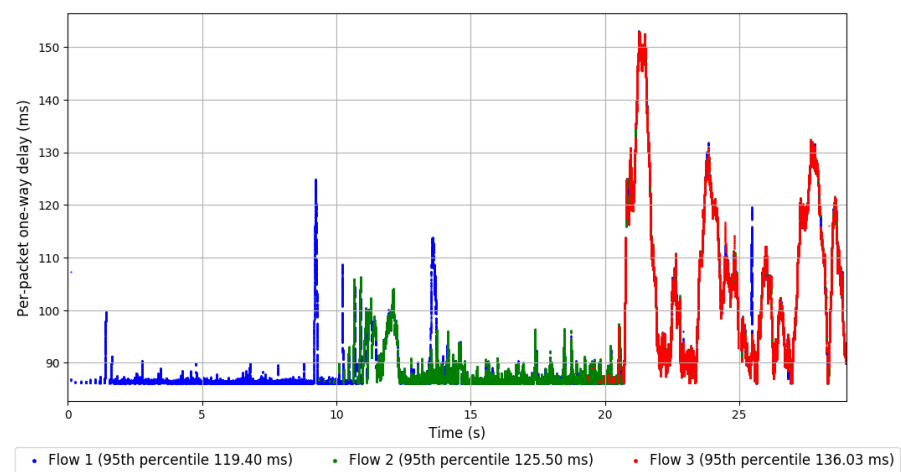
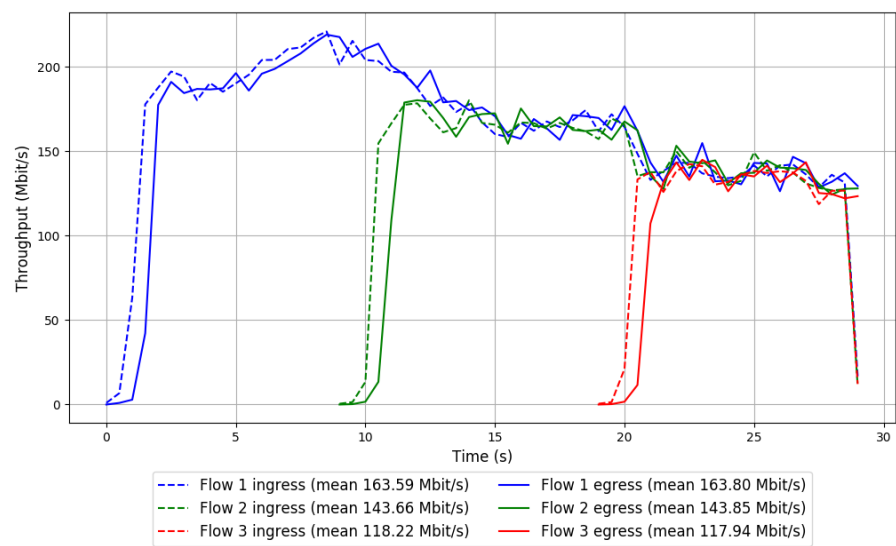
-- Flow 3:

Average throughput: 117.94 Mbit/s

95th percentile per-packet one-way delay: 136.028 ms

Loss rate: 2.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-05-24 19:18:30

End at: 2018-05-24 19:19:00

Local clock offset: 0.118 ms

Remote clock offset: 0.566 ms

Below is generated by plot.py at 2018-05-24 21:04:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 301.70 Mbit/s

95th percentile per-packet one-way delay: 103.284 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 170.91 Mbit/s

95th percentile per-packet one-way delay: 100.583 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 144.13 Mbit/s

95th percentile per-packet one-way delay: 103.631 ms

Loss rate: 0.86%

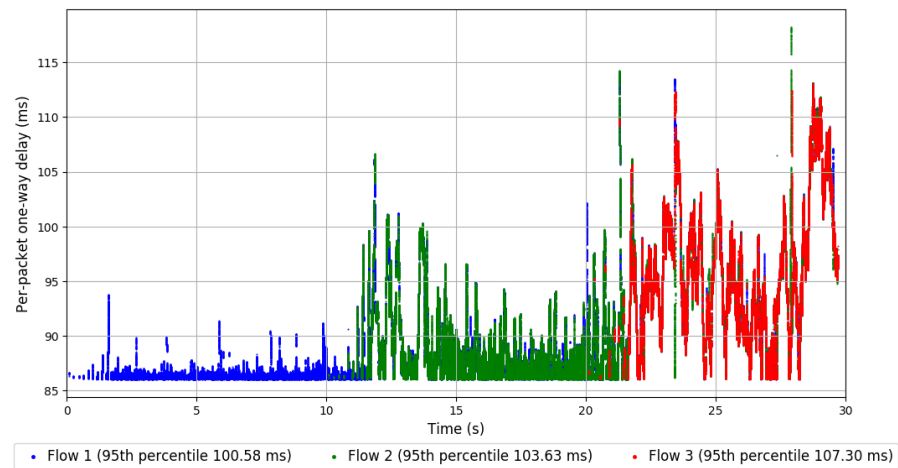
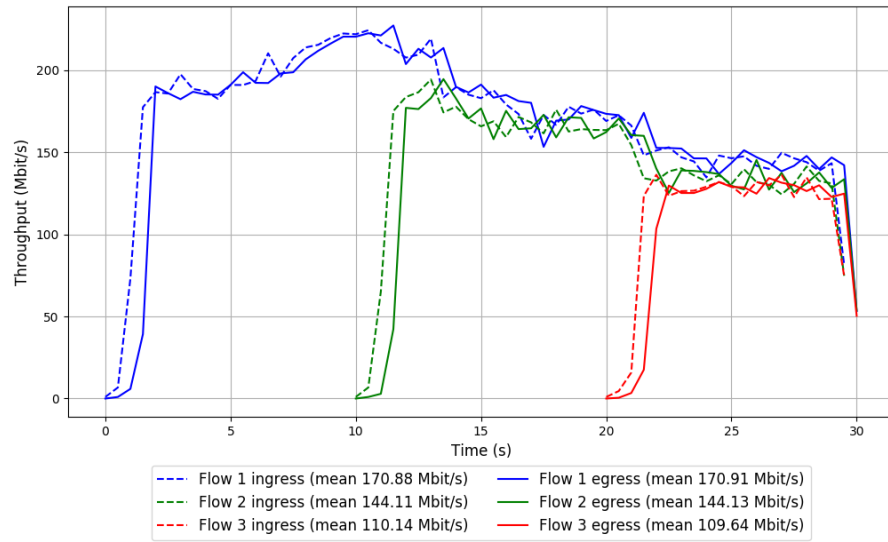
-- Flow 3:

Average throughput: 109.64 Mbit/s

95th percentile per-packet one-way delay: 107.299 ms

Loss rate: 2.22%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-05-24 19:41:52

End at: 2018-05-24 19:42:22

Local clock offset: -0.326 ms

Remote clock offset: -0.01 ms

Below is generated by plot.py at 2018-05-24 21:04:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 309.16 Mbit/s

95th percentile per-packet one-way delay: 105.805 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 175.15 Mbit/s

95th percentile per-packet one-way delay: 104.284 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 149.61 Mbit/s

95th percentile per-packet one-way delay: 106.261 ms

Loss rate: 0.91%

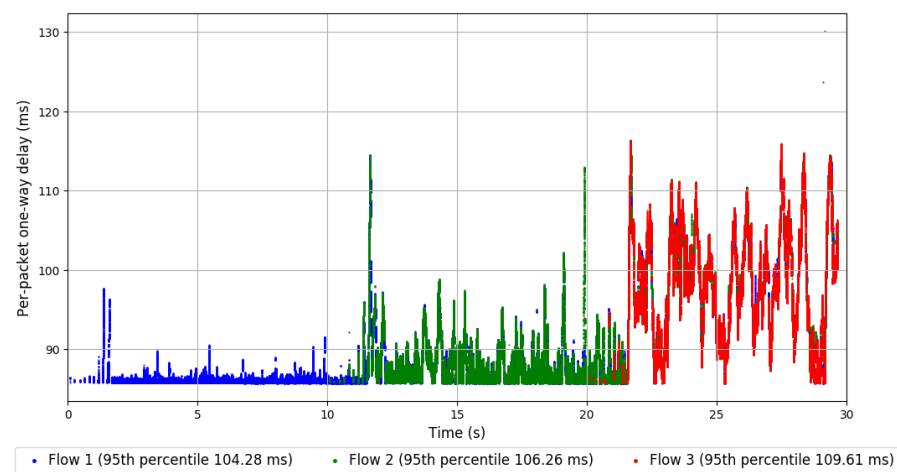
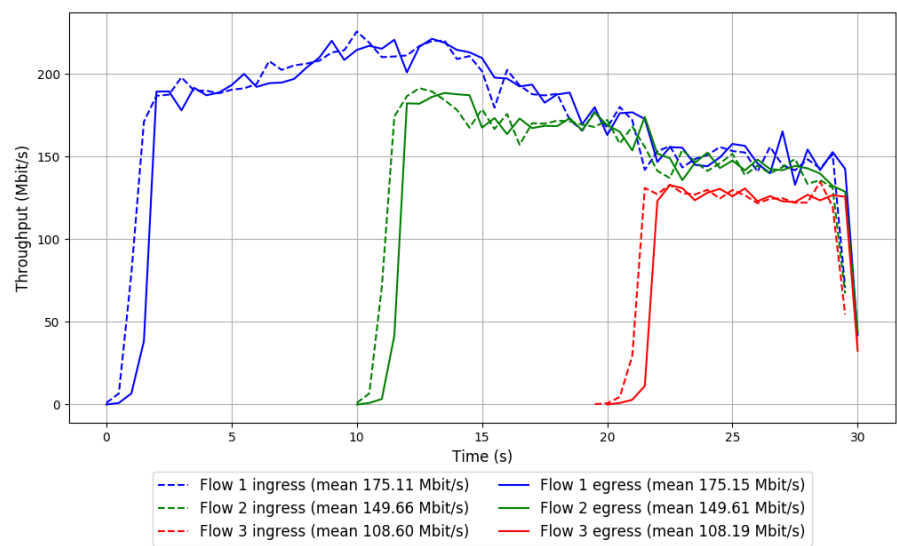
-- Flow 3:

Average throughput: 108.19 Mbit/s

95th percentile per-packet one-way delay: 109.614 ms

Loss rate: 2.16%

Run 10: Report of Indigo — Data Link

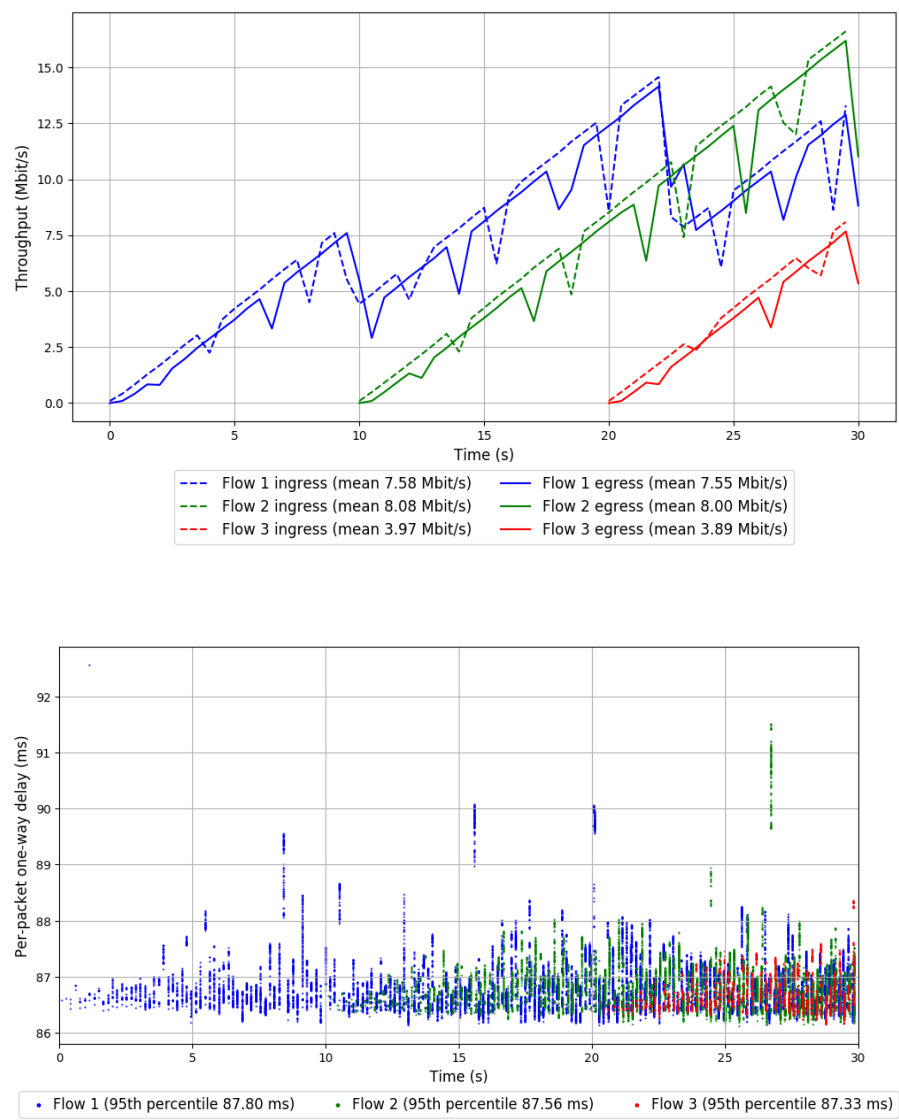


Run 1: Statistics of LEDBAT

Start at: 2018-05-24 16:04:57
End at: 2018-05-24 16:05:27
Local clock offset: -0.145 ms
Remote clock offset: -0.099 ms

Below is generated by plot.py at 2018-05-24 21:04:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.11 Mbit/s
95th percentile per-packet one-way delay: 87.666 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 7.55 Mbit/s
95th percentile per-packet one-way delay: 87.803 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 8.00 Mbit/s
95th percentile per-packet one-way delay: 87.558 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 3.89 Mbit/s
95th percentile per-packet one-way delay: 87.333 ms
Loss rate: 3.51%

Run 1: Report of LEDBAT — Data Link

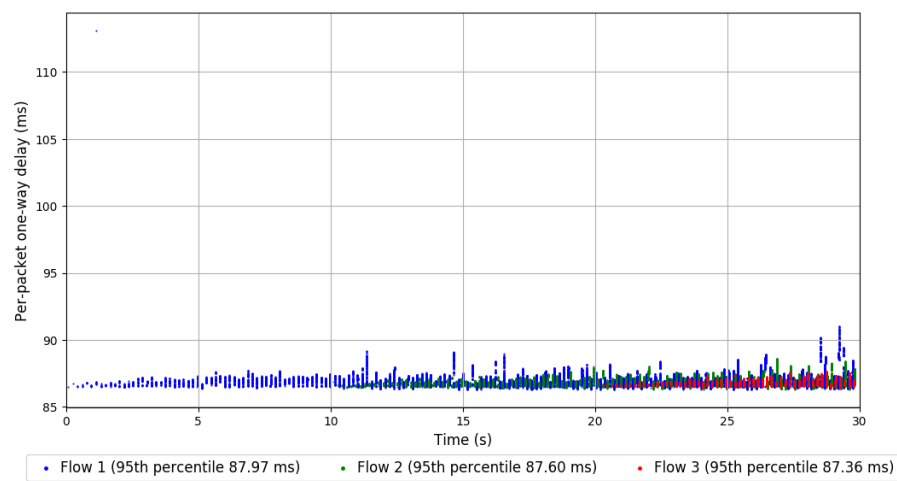
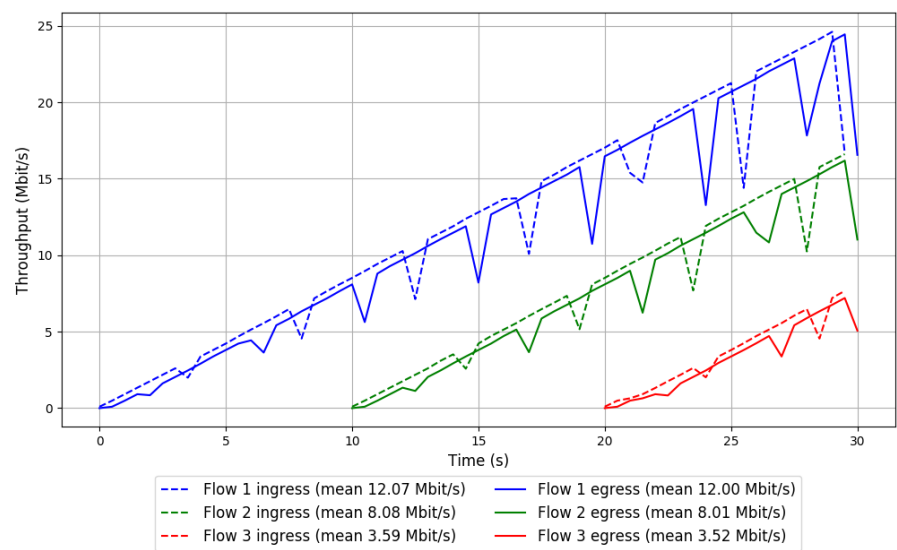


Run 2: Statistics of LEDBAT

Start at: 2018-05-24 16:28:27
End at: 2018-05-24 16:28:57
Local clock offset: 0.17 ms
Remote clock offset: -0.105 ms

Below is generated by plot.py at 2018-05-24 21:04:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.43 Mbit/s
95th percentile per-packet one-way delay: 87.821 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 12.00 Mbit/s
95th percentile per-packet one-way delay: 87.972 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 8.01 Mbit/s
95th percentile per-packet one-way delay: 87.603 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 3.52 Mbit/s
95th percentile per-packet one-way delay: 87.361 ms
Loss rate: 3.68%

Run 2: Report of LEDBAT — Data Link

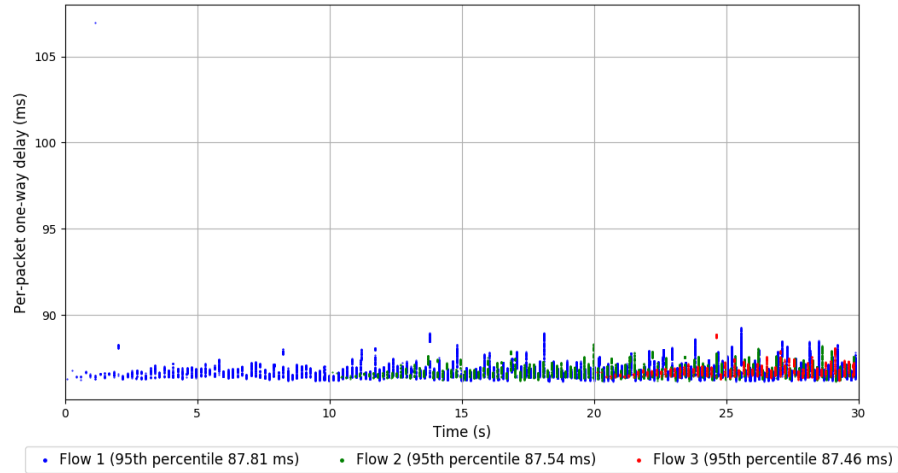
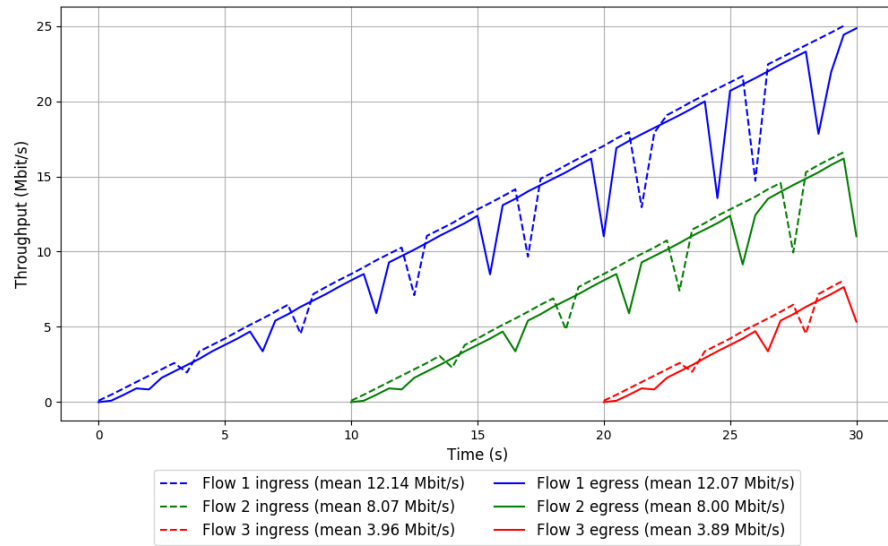


Run 3: Statistics of LEDBAT

Start at: 2018-05-24 16:52:14
End at: 2018-05-24 16:52:44
Local clock offset: 0.113 ms
Remote clock offset: -0.049 ms

Below is generated by plot.py at 2018-05-24 21:04:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.63 Mbit/s
95th percentile per-packet one-way delay: 87.737 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 12.07 Mbit/s
95th percentile per-packet one-way delay: 87.815 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 8.00 Mbit/s
95th percentile per-packet one-way delay: 87.536 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 3.89 Mbit/s
95th percentile per-packet one-way delay: 87.464 ms
Loss rate: 3.51%

Run 3: Report of LEDBAT — Data Link

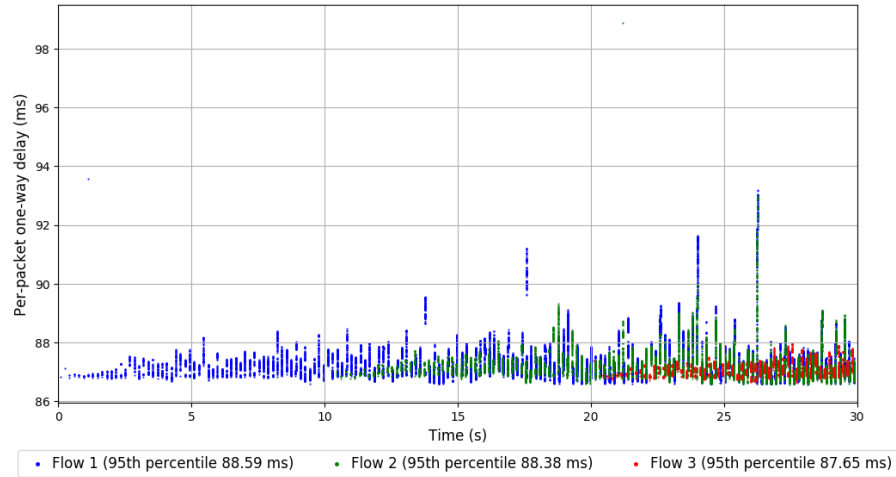
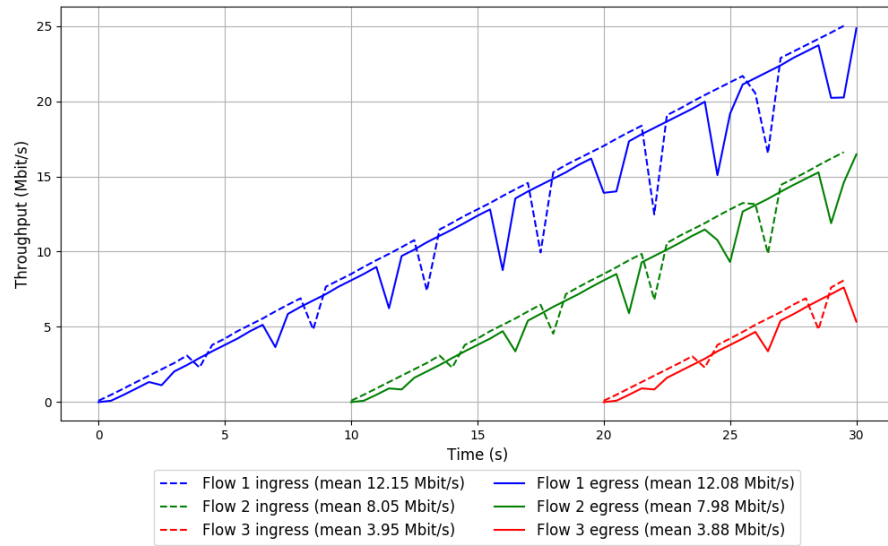


Run 4: Statistics of LEDBAT

Start at: 2018-05-24 17:16:04
End at: 2018-05-24 17:16:34
Local clock offset: 0.48 ms
Remote clock offset: -0.019 ms

Below is generated by plot.py at 2018-05-24 21:04:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.64 Mbit/s
95th percentile per-packet one-way delay: 88.466 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 12.08 Mbit/s
95th percentile per-packet one-way delay: 88.594 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 7.98 Mbit/s
95th percentile per-packet one-way delay: 88.377 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 87.652 ms
Loss rate: 3.52%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-05-24 17:39:48

End at: 2018-05-24 17:40:18

Local clock offset: -0.164 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-05-24 21:04:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.88 Mbit/s

95th percentile per-packet one-way delay: 87.723 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 11.81 Mbit/s

95th percentile per-packet one-way delay: 87.807 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 6.23 Mbit/s

95th percentile per-packet one-way delay: 87.340 ms

Loss rate: 0.81%

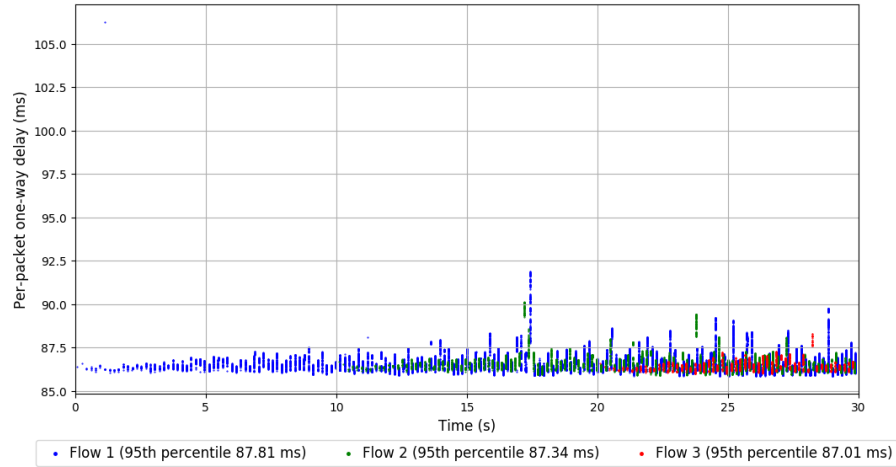
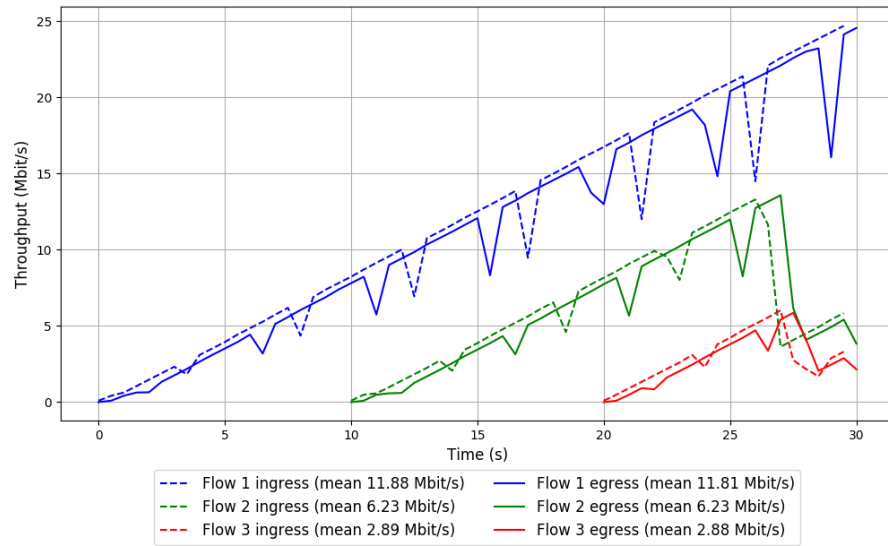
-- Flow 3:

Average throughput: 2.88 Mbit/s

95th percentile per-packet one-way delay: 87.010 ms

Loss rate: 2.06%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-05-24 18:02:56

End at: 2018-05-24 18:03:26

Local clock offset: -0.181 ms

Remote clock offset: 0.208 ms

Below is generated by plot.py at 2018-05-24 21:04:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.47 Mbit/s

95th percentile per-packet one-way delay: 87.289 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 7.60 Mbit/s

95th percentile per-packet one-way delay: 87.355 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 5.48 Mbit/s

95th percentile per-packet one-way delay: 87.196 ms

Loss rate: 1.15%

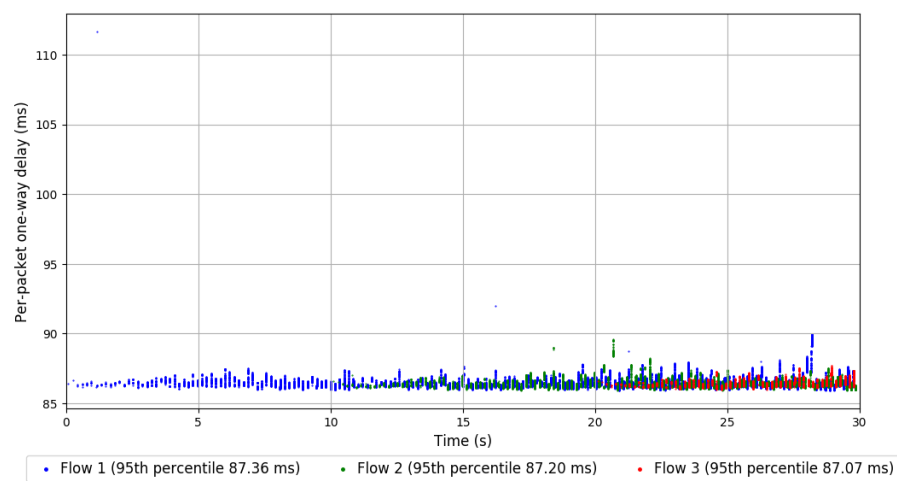
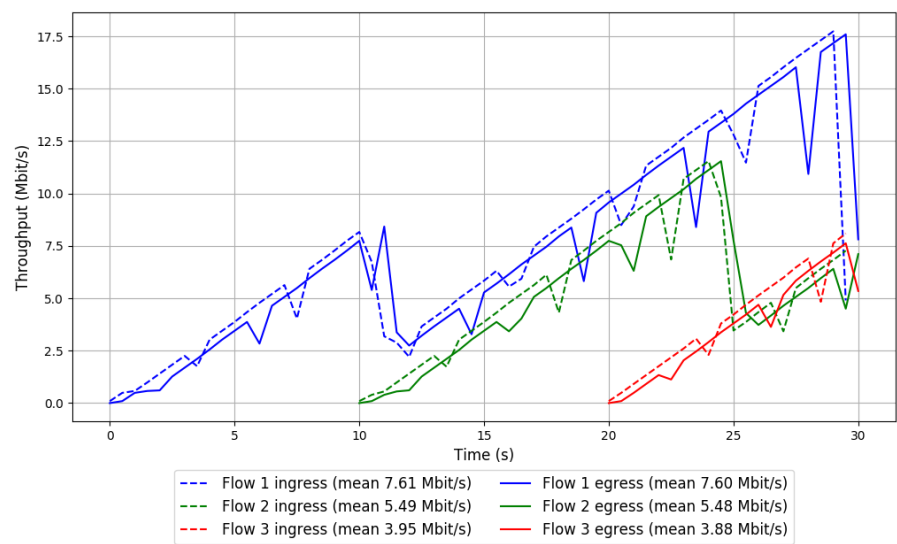
-- Flow 3:

Average throughput: 3.88 Mbit/s

95th percentile per-packet one-way delay: 87.066 ms

Loss rate: 3.52%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-05-24 18:26:45

End at: 2018-05-24 18:27:15

Local clock offset: -0.216 ms

Remote clock offset: 0.351 ms

Below is generated by plot.py at 2018-05-24 21:04:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.00 Mbit/s

95th percentile per-packet one-way delay: 87.309 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 8.92 Mbit/s

95th percentile per-packet one-way delay: 87.385 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 7.28 Mbit/s

95th percentile per-packet one-way delay: 87.305 ms

Loss rate: 1.82%

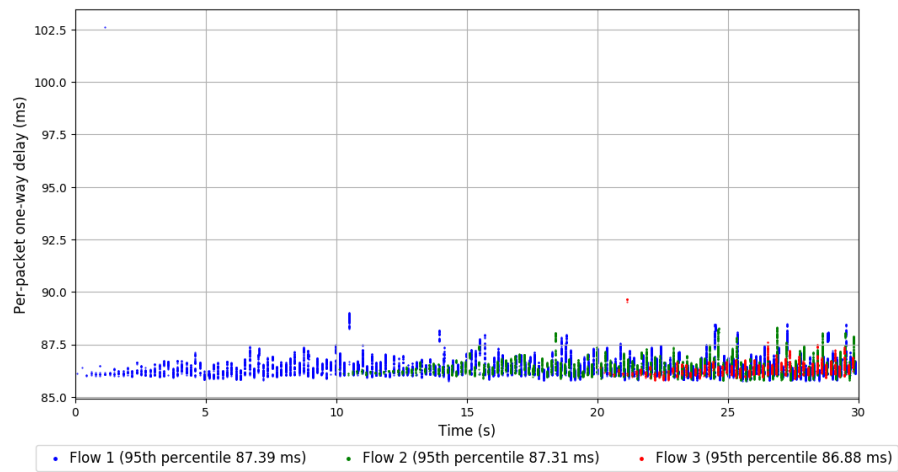
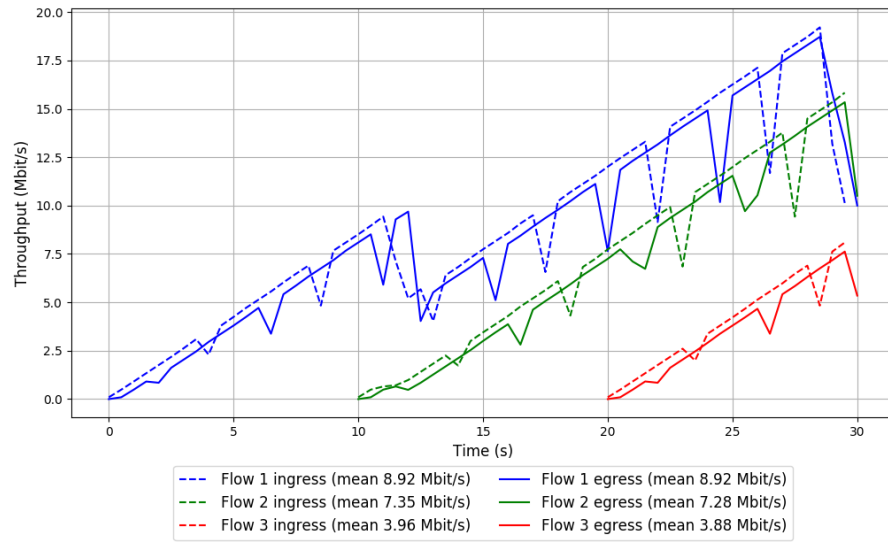
-- Flow 3:

Average throughput: 3.88 Mbit/s

95th percentile per-packet one-way delay: 86.882 ms

Loss rate: 3.52%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-05-24 18:49:51

End at: 2018-05-24 18:50:21

Local clock offset: 0.042 ms

Remote clock offset: 0.46 ms

Below is generated by plot.py at 2018-05-24 21:04:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.73 Mbit/s

95th percentile per-packet one-way delay: 87.402 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 10.07 Mbit/s

95th percentile per-packet one-way delay: 87.575 ms

Loss rate: 1.24%

-- Flow 2:

Average throughput: 5.12 Mbit/s

95th percentile per-packet one-way delay: 87.121 ms

Loss rate: 1.34%

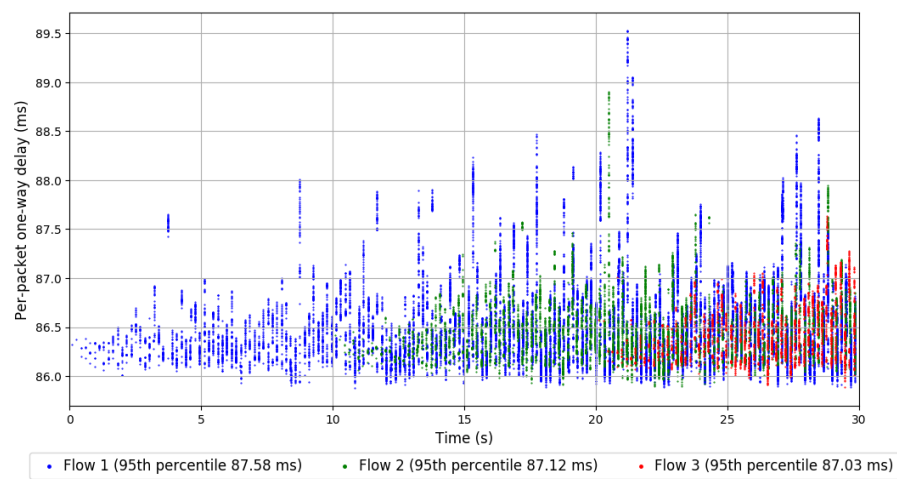
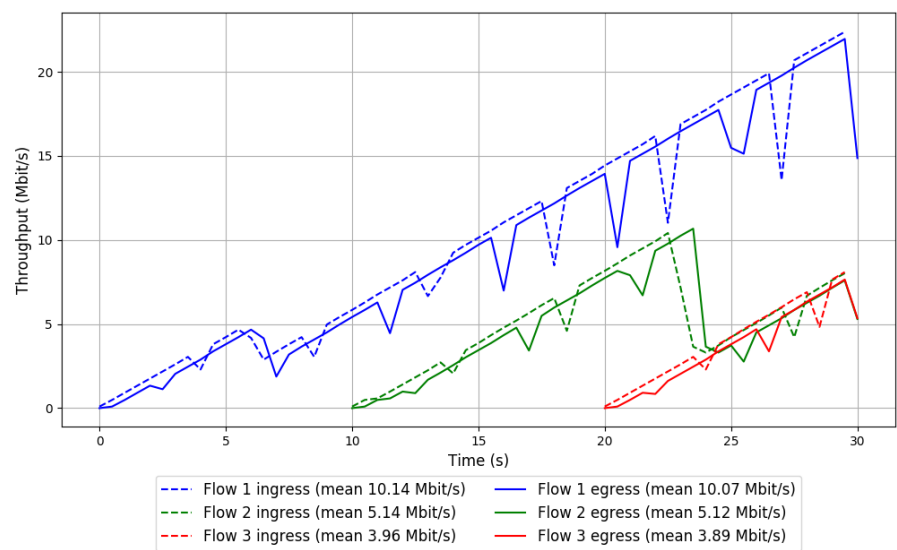
-- Flow 3:

Average throughput: 3.89 Mbit/s

95th percentile per-packet one-way delay: 87.029 ms

Loss rate: 3.51%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-05-24 19:13:41

End at: 2018-05-24 19:14:11

Local clock offset: 0.448 ms

Remote clock offset: 0.502 ms

Below is generated by plot.py at 2018-05-24 21:04:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.39 Mbit/s

95th percentile per-packet one-way delay: 87.952 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 10.17 Mbit/s

95th percentile per-packet one-way delay: 88.126 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 4.52 Mbit/s

95th percentile per-packet one-way delay: 87.492 ms

Loss rate: 1.26%

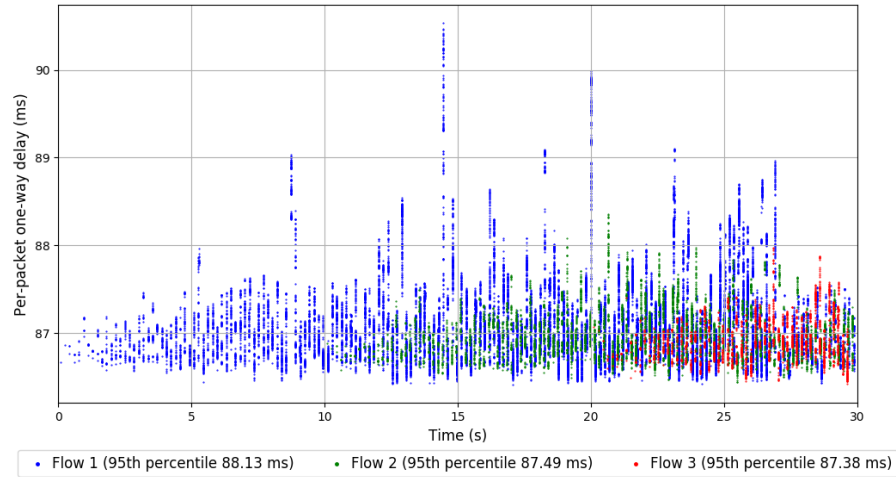
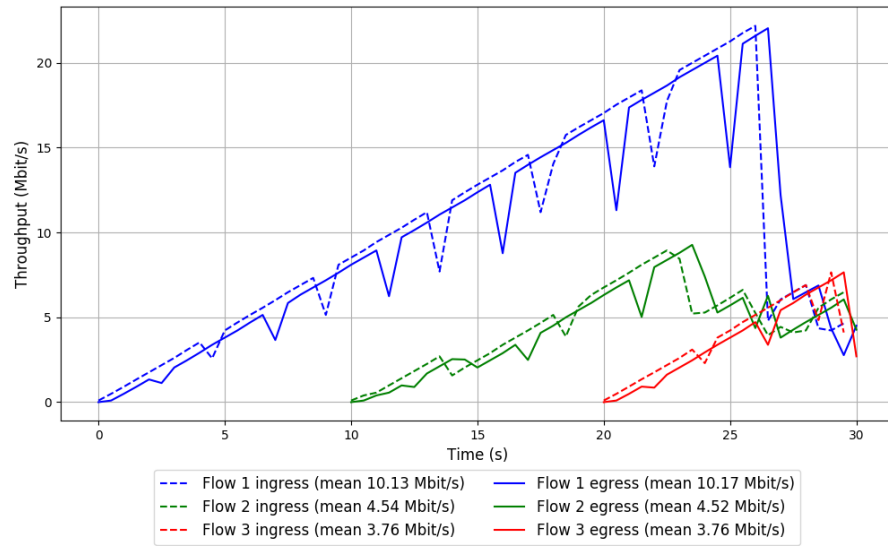
-- Flow 3:

Average throughput: 3.76 Mbit/s

95th percentile per-packet one-way delay: 87.375 ms

Loss rate: 1.89%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-05-24 19:37:00

End at: 2018-05-24 19:37:30

Local clock offset: -0.072 ms

Remote clock offset: 0.099 ms

Below is generated by plot.py at 2018-05-24 21:04:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.21 Mbit/s

95th percentile per-packet one-way delay: 87.405 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 8.14 Mbit/s

95th percentile per-packet one-way delay: 87.457 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 6.33 Mbit/s

95th percentile per-packet one-way delay: 87.363 ms

Loss rate: 0.84%

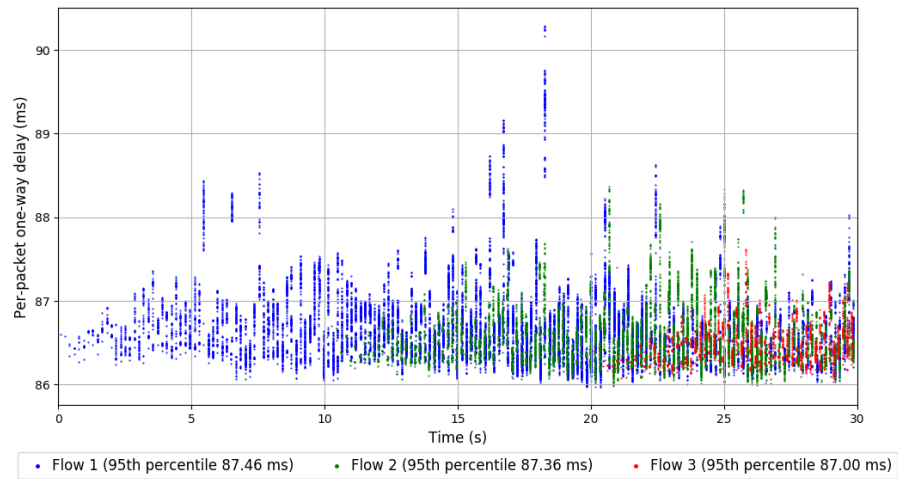
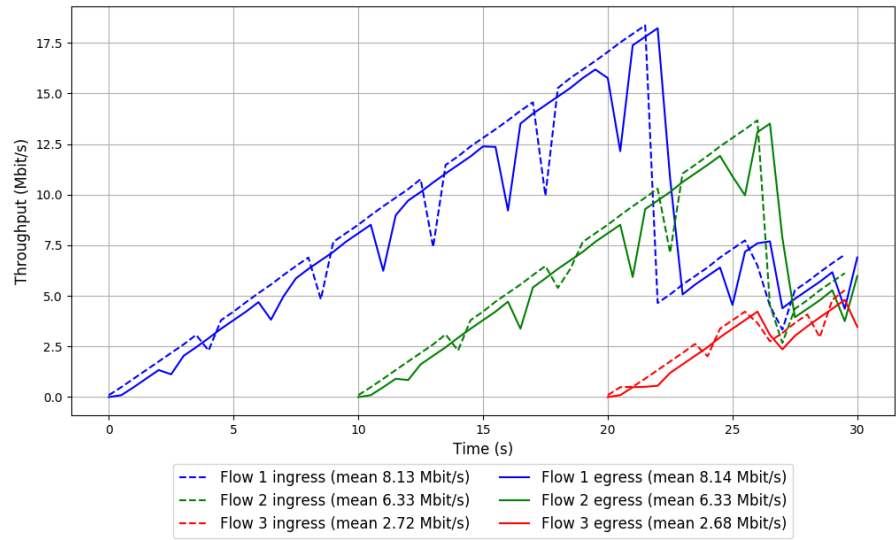
-- Flow 3:

Average throughput: 2.68 Mbit/s

95th percentile per-packet one-way delay: 86.998 ms

Loss rate: 3.41%

Run 10: Report of LEDBAT — Data Link

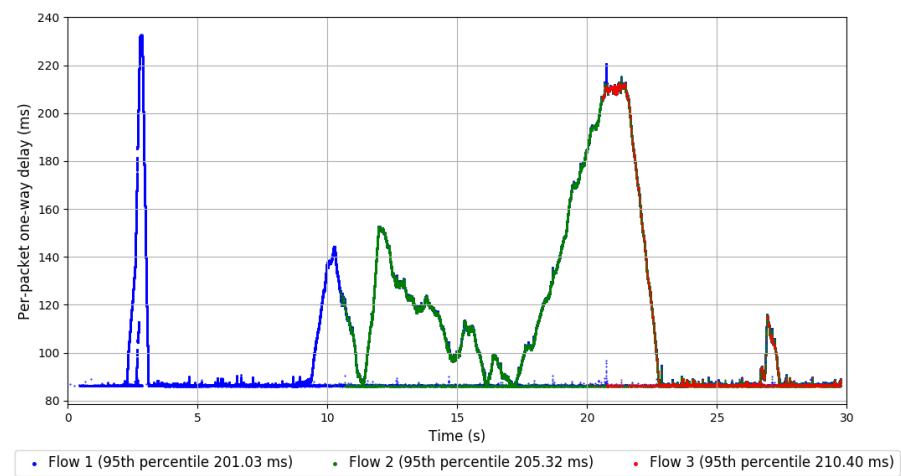
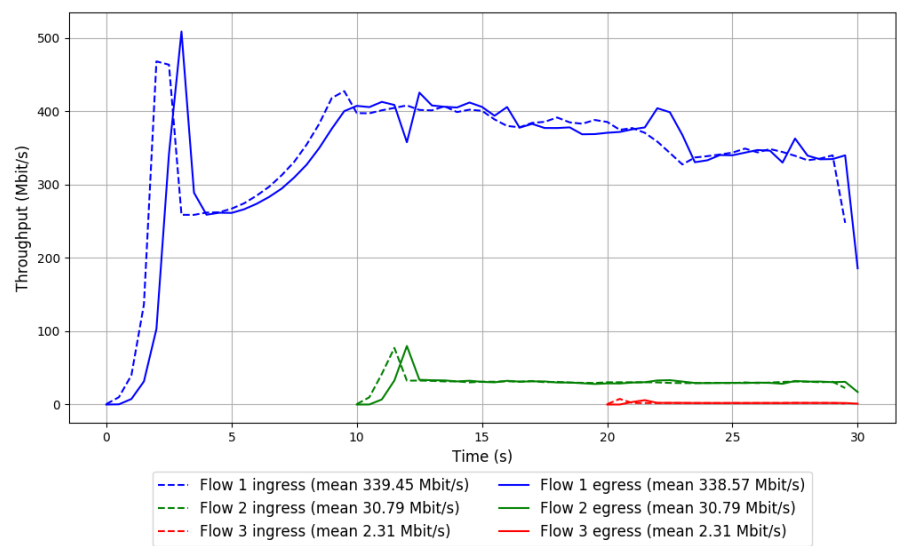


Run 1: Statistics of PCC-Allegro

Start at: 2018-05-24 16:21:05
End at: 2018-05-24 16:21:35
Local clock offset: -0.14 ms
Remote clock offset: -0.104 ms

Below is generated by plot.py at 2018-05-24 21:04:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 359.74 Mbit/s
95th percentile per-packet one-way delay: 201.713 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 338.57 Mbit/s
95th percentile per-packet one-way delay: 201.035 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 30.79 Mbit/s
95th percentile per-packet one-way delay: 205.324 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 210.403 ms
Loss rate: 1.60%

Run 1: Report of PCC-Allegro — Data Link

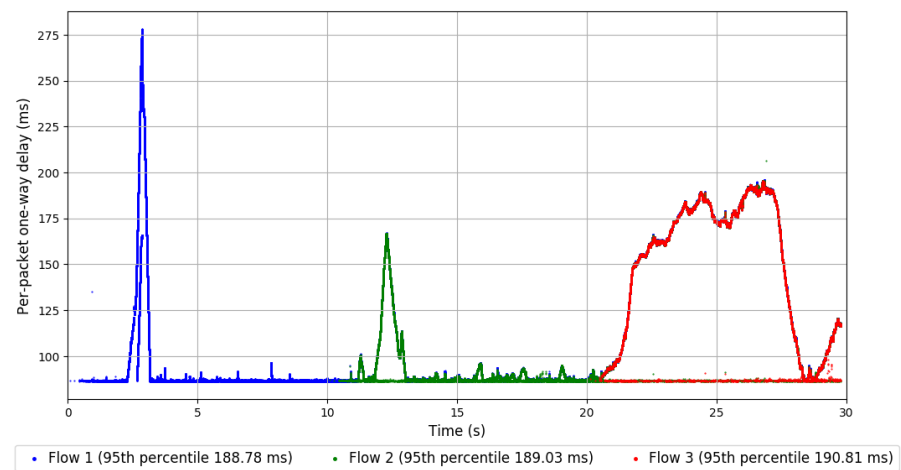
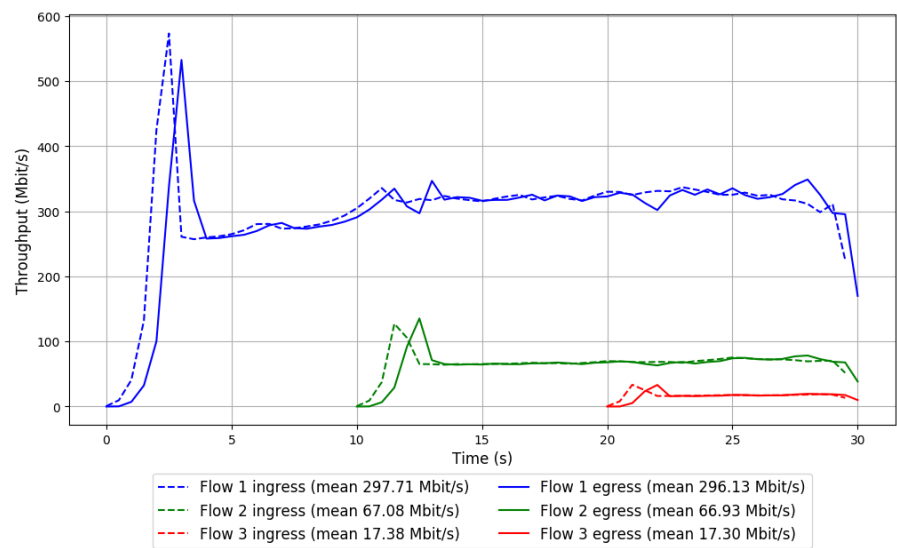


Run 2: Statistics of PCC-Allegro

Start at: 2018-05-24 16:44:47
End at: 2018-05-24 16:45:17
Local clock offset: 0.285 ms
Remote clock offset: -0.036 ms

Below is generated by plot.py at 2018-05-24 21:04:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 346.12 Mbit/s
95th percentile per-packet one-way delay: 188.933 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 296.13 Mbit/s
95th percentile per-packet one-way delay: 188.782 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 66.93 Mbit/s
95th percentile per-packet one-way delay: 189.035 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 17.30 Mbit/s
95th percentile per-packet one-way delay: 190.815 ms
Loss rate: 2.21%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-05-24 17:08:44

End at: 2018-05-24 17:09:14

Local clock offset: 0.223 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-05-24 21:05:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 377.23 Mbit/s

95th percentile per-packet one-way delay: 197.713 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 354.65 Mbit/s

95th percentile per-packet one-way delay: 197.398 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 4.62 Mbit/s

95th percentile per-packet one-way delay: 197.291 ms

Loss rate: 1.10%

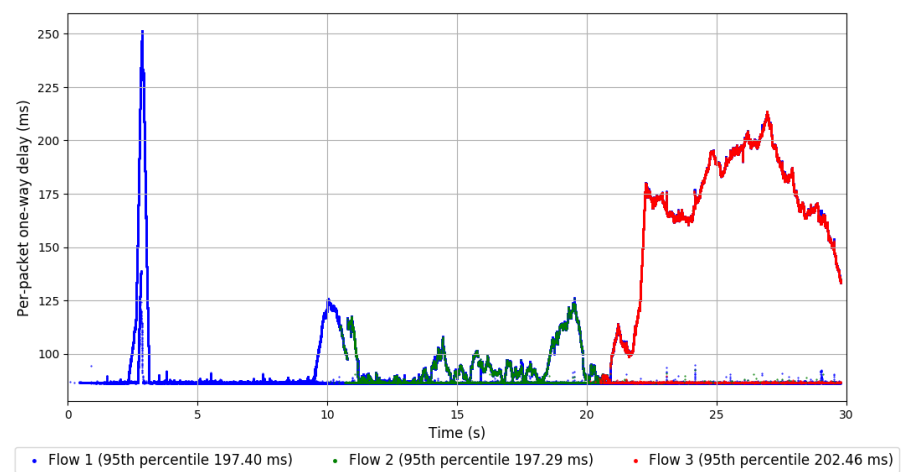
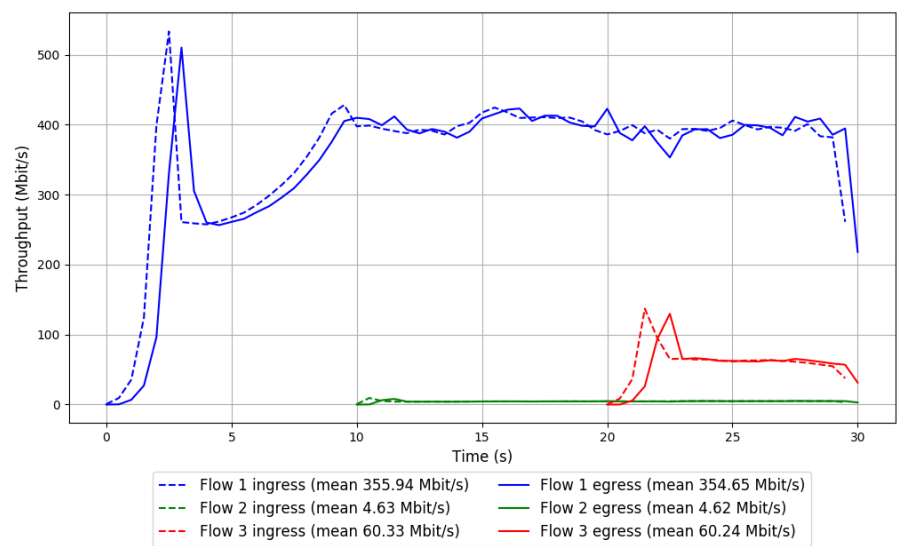
-- Flow 3:

Average throughput: 60.24 Mbit/s

95th percentile per-packet one-way delay: 202.463 ms

Loss rate: 1.91%

Run 3: Report of PCC-Allegro — Data Link

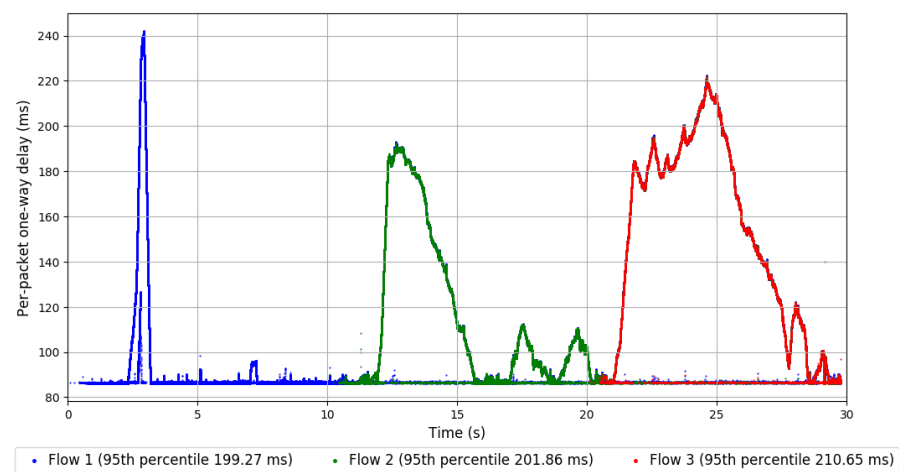
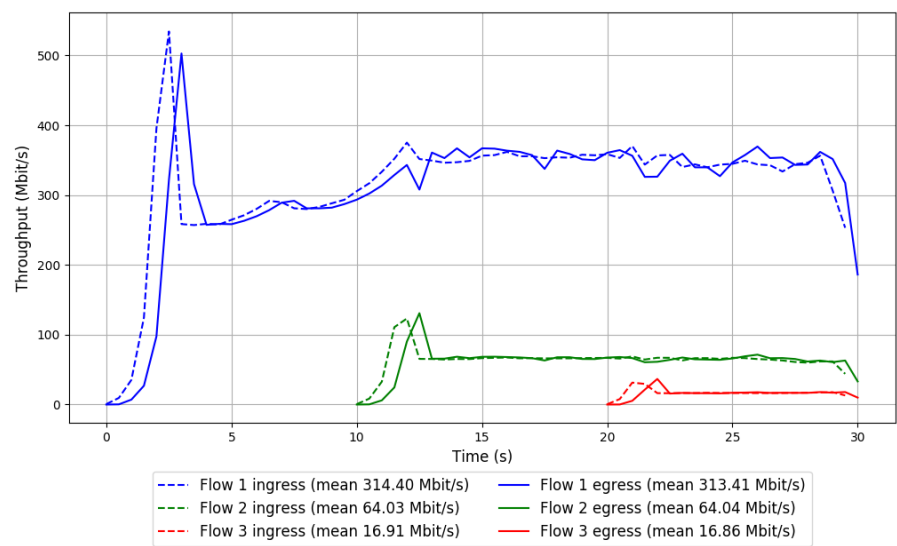


Run 4: Statistics of PCC-Allegro

Start at: 2018-05-24 17:32:37
End at: 2018-05-24 17:33:07
Local clock offset: 0.069 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-05-24 21:05:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 361.25 Mbit/s
95th percentile per-packet one-way delay: 199.951 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 313.41 Mbit/s
95th percentile per-packet one-way delay: 199.271 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 64.04 Mbit/s
95th percentile per-packet one-way delay: 201.858 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 16.86 Mbit/s
95th percentile per-packet one-way delay: 210.652 ms
Loss rate: 1.91%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-05-24 17:55:41

End at: 2018-05-24 17:56:11

Local clock offset: -0.057 ms

Remote clock offset: 0.129 ms

Below is generated by plot.py at 2018-05-24 21:07:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 368.78 Mbit/s

95th percentile per-packet one-way delay: 170.537 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 360.01 Mbit/s

95th percentile per-packet one-way delay: 170.547 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 4.92 Mbit/s

95th percentile per-packet one-way delay: 169.468 ms

Loss rate: 0.85%

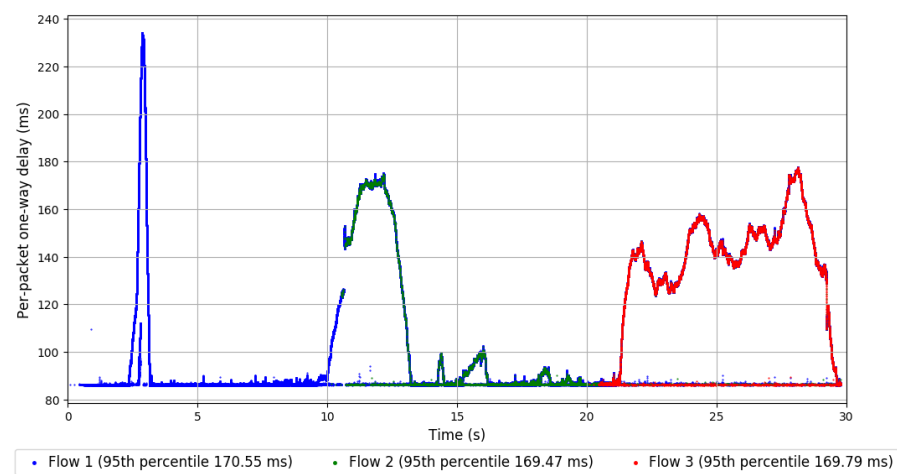
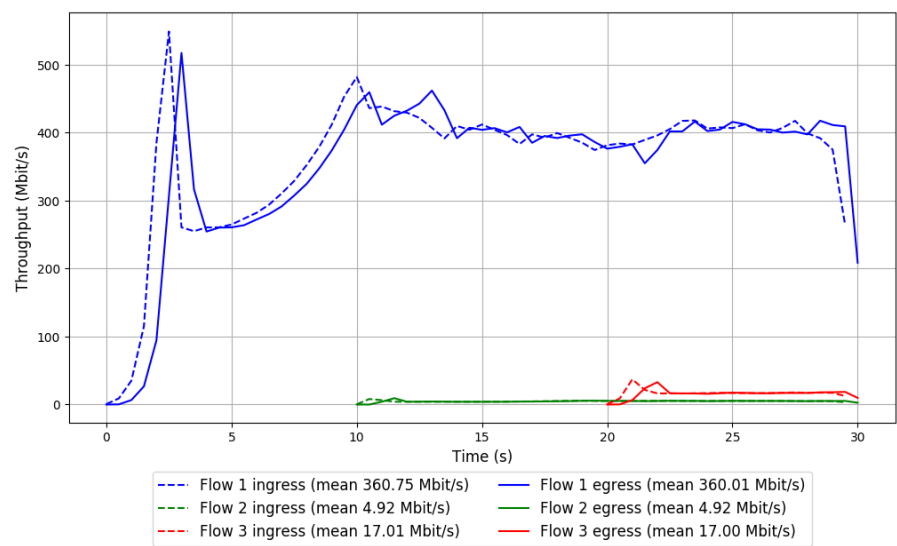
-- Flow 3:

Average throughput: 17.00 Mbit/s

95th percentile per-packet one-way delay: 169.788 ms

Loss rate: 1.80%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-05-24 18:19:40

End at: 2018-05-24 18:20:10

Local clock offset: -0.215 ms

Remote clock offset: 0.31 ms

Below is generated by plot.py at 2018-05-24 21:08:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 366.62 Mbit/s

95th percentile per-packet one-way delay: 172.140 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 322.99 Mbit/s

95th percentile per-packet one-way delay: 172.084 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 63.76 Mbit/s

95th percentile per-packet one-way delay: 172.871 ms

Loss rate: 0.99%

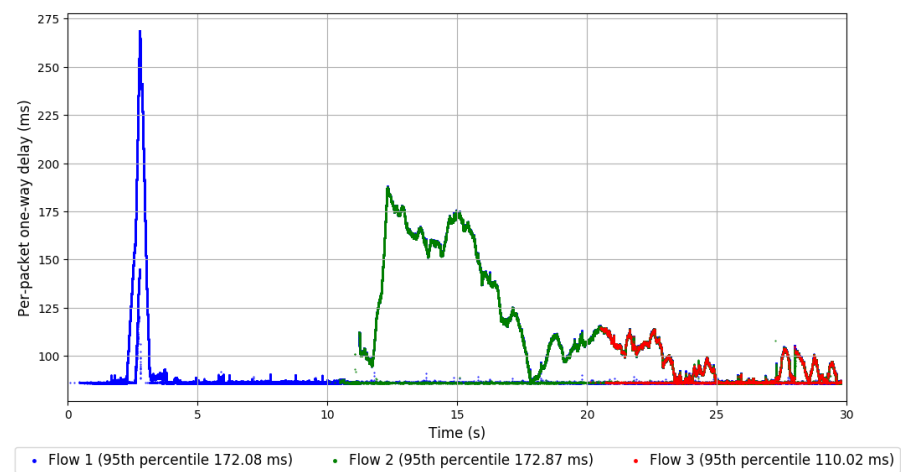
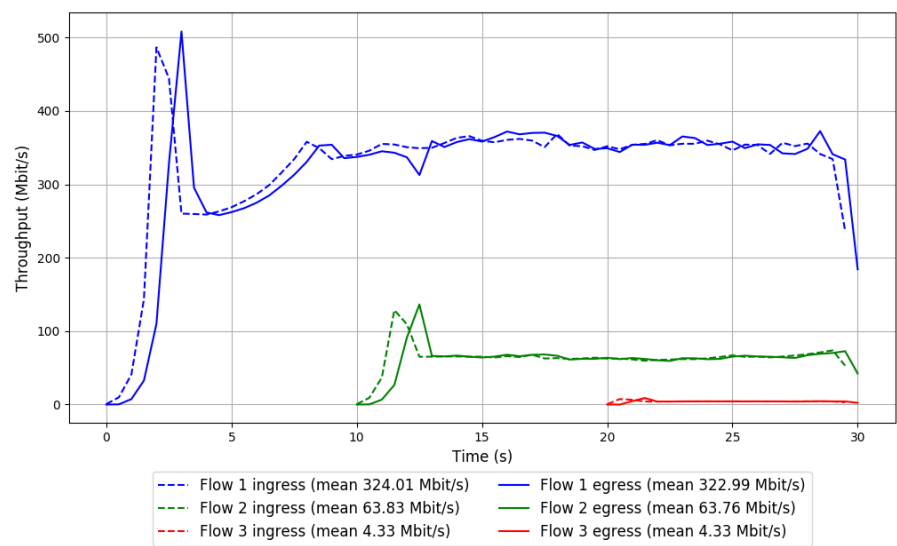
-- Flow 3:

Average throughput: 4.33 Mbit/s

95th percentile per-packet one-way delay: 110.017 ms

Loss rate: 1.64%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-05-24 18:42:39

End at: 2018-05-24 18:43:09

Local clock offset: 0.391 ms

Remote clock offset: 0.459 ms

Below is generated by plot.py at 2018-05-24 21:08:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 351.17 Mbit/s

95th percentile per-packet one-way delay: 154.879 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 343.10 Mbit/s

95th percentile per-packet one-way delay: 155.120 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 148.869 ms

Loss rate: 1.04%

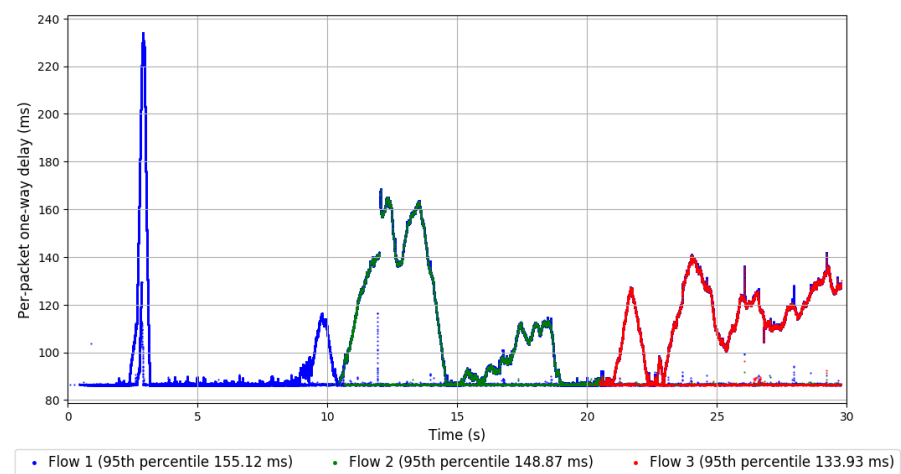
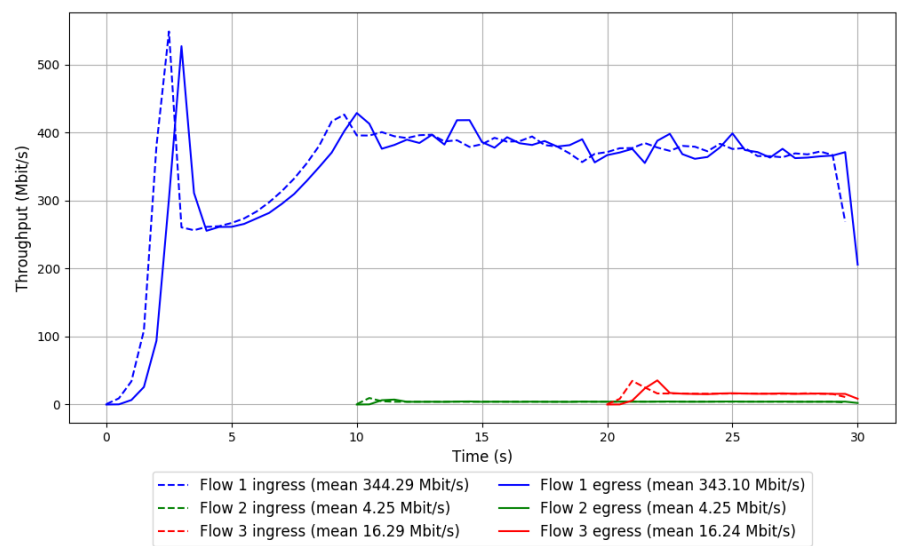
-- Flow 3:

Average throughput: 16.24 Mbit/s

95th percentile per-packet one-way delay: 133.925 ms

Loss rate: 2.01%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-05-24 19:06:30

End at: 2018-05-24 19:07:00

Local clock offset: -0.067 ms

Remote clock offset: 0.499 ms

Below is generated by plot.py at 2018-05-24 21:10:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 357.81 Mbit/s

95th percentile per-packet one-way delay: 226.074 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 308.43 Mbit/s

95th percentile per-packet one-way delay: 224.316 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 73.35 Mbit/s

95th percentile per-packet one-way delay: 229.870 ms

Loss rate: 1.07%

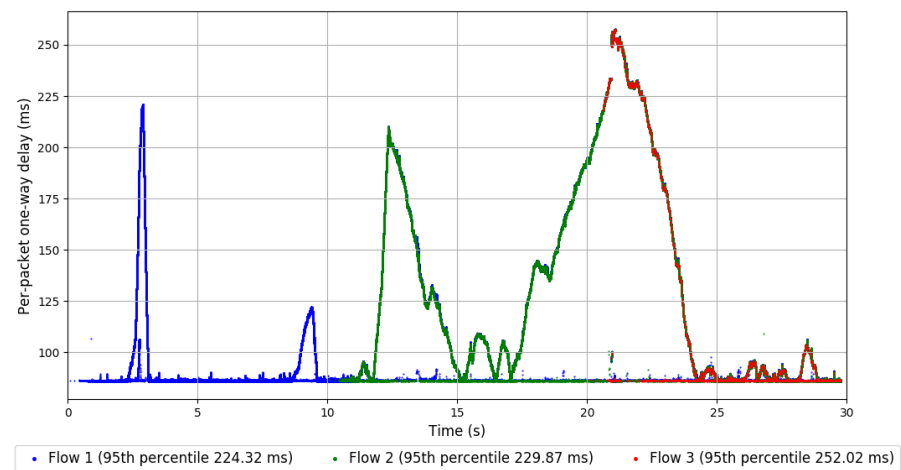
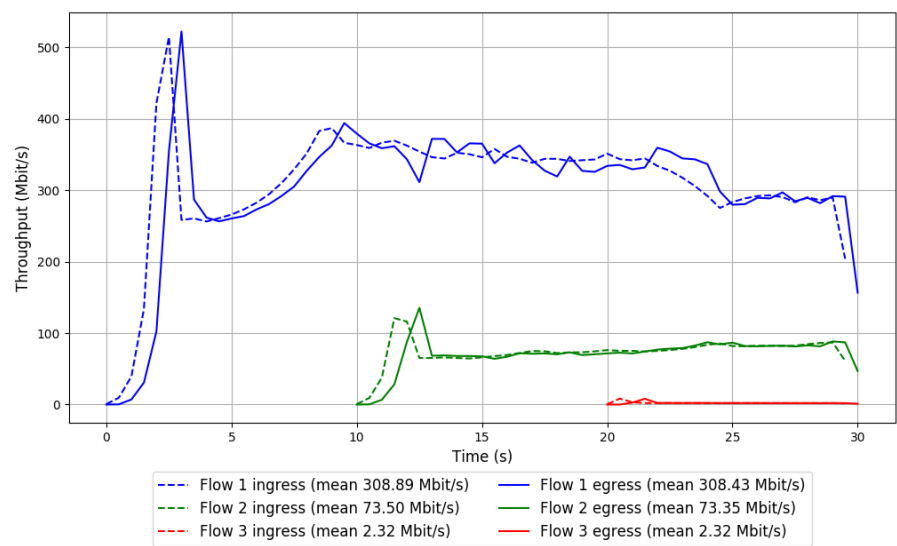
-- Flow 3:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 252.021 ms

Loss rate: 2.02%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-05-24 19:29:48

End at: 2018-05-24 19:30:18

Local clock offset: 0.02 ms

Remote clock offset: 0.412 ms

Below is generated by plot.py at 2018-05-24 21:11:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 359.18 Mbit/s

95th percentile per-packet one-way delay: 155.072 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 347.89 Mbit/s

95th percentile per-packet one-way delay: 154.797 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 8.88 Mbit/s

95th percentile per-packet one-way delay: 150.343 ms

Loss rate: 1.26%

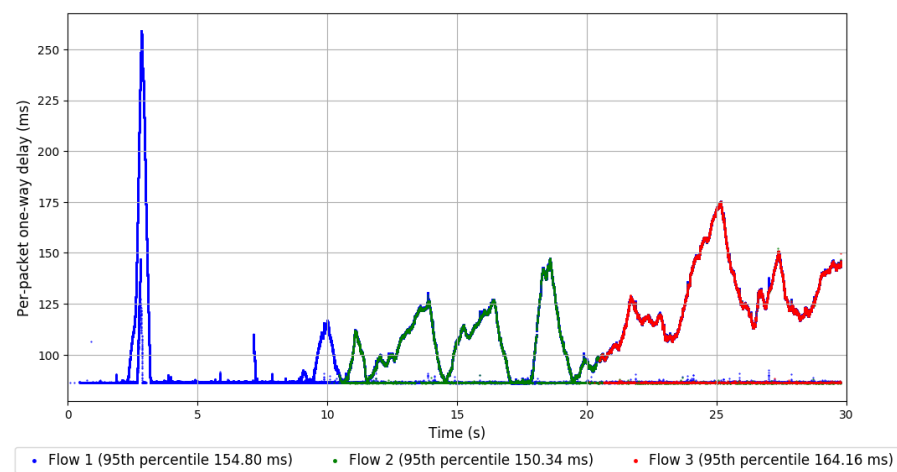
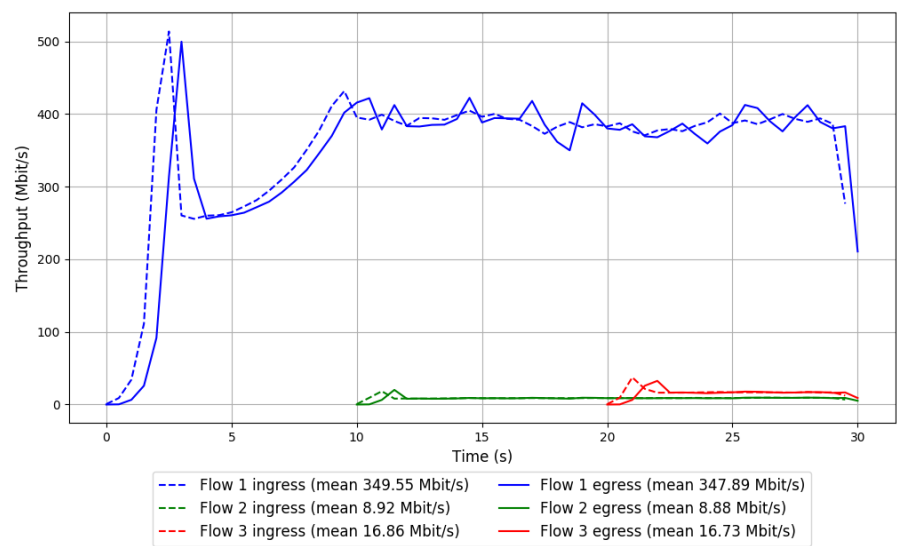
-- Flow 3:

Average throughput: 16.73 Mbit/s

95th percentile per-packet one-way delay: 164.155 ms

Loss rate: 2.42%

Run 9: Report of PCC-Allegro — Data Link

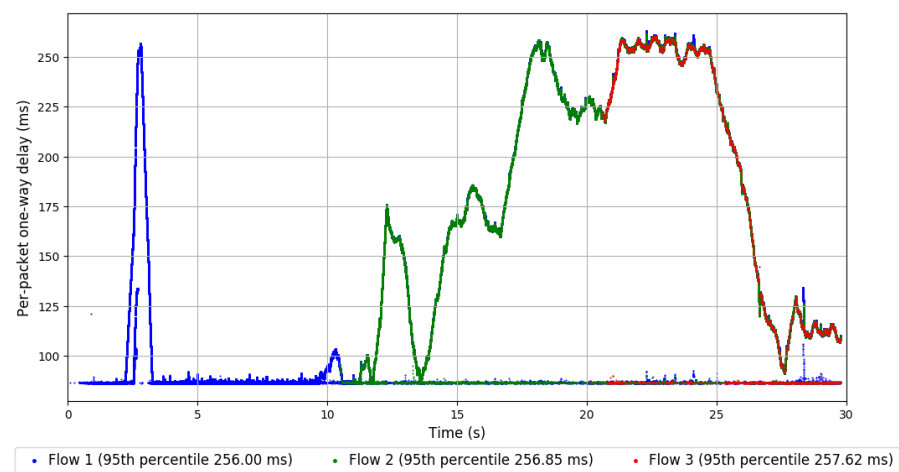
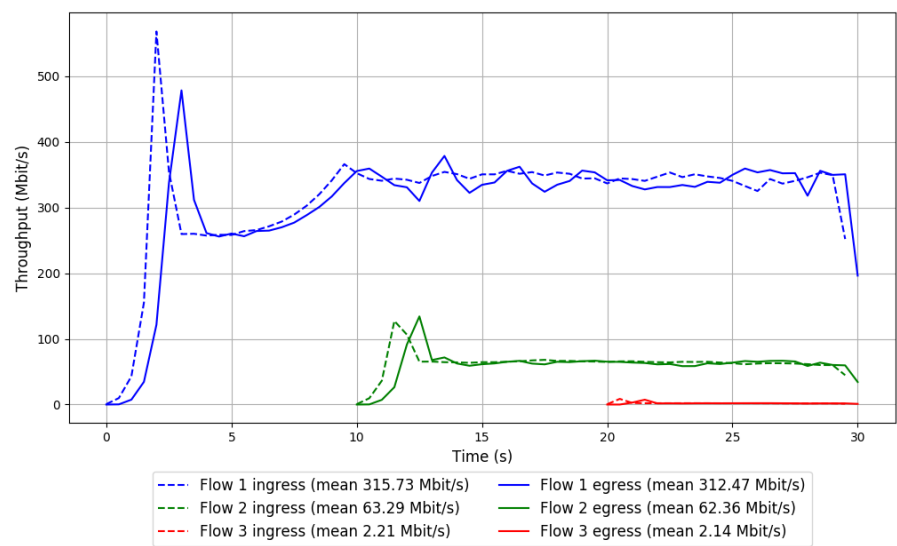


Run 10: Statistics of PCC-Allegro

Start at: 2018-05-24 19:52:51
End at: 2018-05-24 19:53:21
Local clock offset: 0.207 ms
Remote clock offset: -0.182 ms

Below is generated by plot.py at 2018-05-24 21:11:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 354.51 Mbit/s
95th percentile per-packet one-way delay: 256.094 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 312.47 Mbit/s
95th percentile per-packet one-way delay: 256.005 ms
Loss rate: 1.61%
-- Flow 2:
Average throughput: 62.36 Mbit/s
95th percentile per-packet one-way delay: 256.854 ms
Loss rate: 2.34%
-- Flow 3:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 257.619 ms
Loss rate: 4.57%

Run 10: Report of PCC-Allegro — Data Link

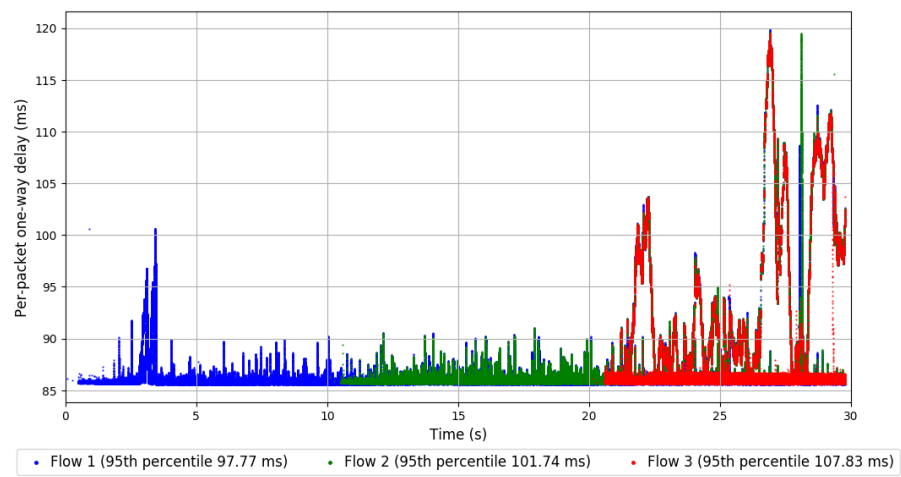
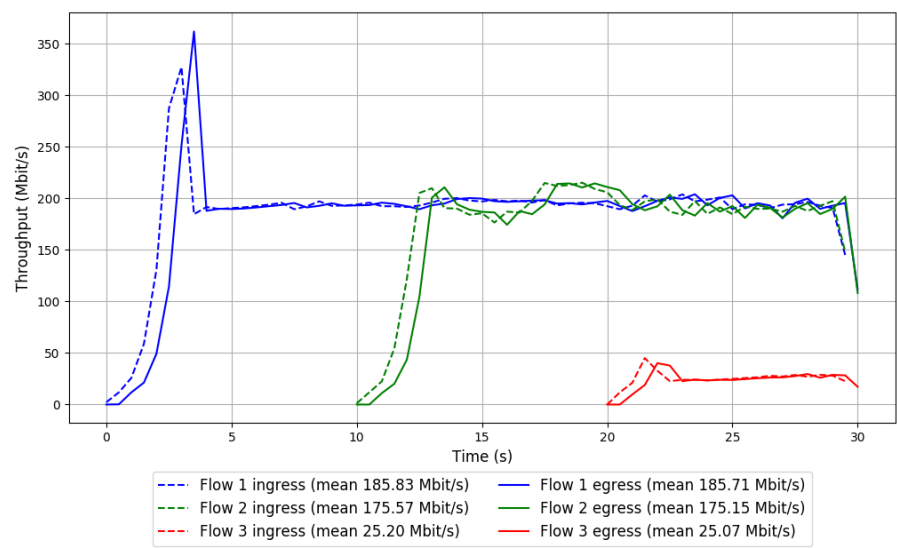


```
Run 1: Statistics of PCC-Expr

Start at: 2018-05-24 16:00:26
End at: 2018-05-24 16:00:56
Local clock offset: -0.745 ms
Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2018-05-24 21:15:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 309.97 Mbit/s
95th percentile per-packet one-way delay: 99.578 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 185.71 Mbit/s
95th percentile per-packet one-way delay: 97.770 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 175.15 Mbit/s
95th percentile per-packet one-way delay: 101.737 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 25.07 Mbit/s
95th percentile per-packet one-way delay: 107.826 ms
Loss rate: 2.27%
```

Run 1: Report of PCC-Expr — Data Link

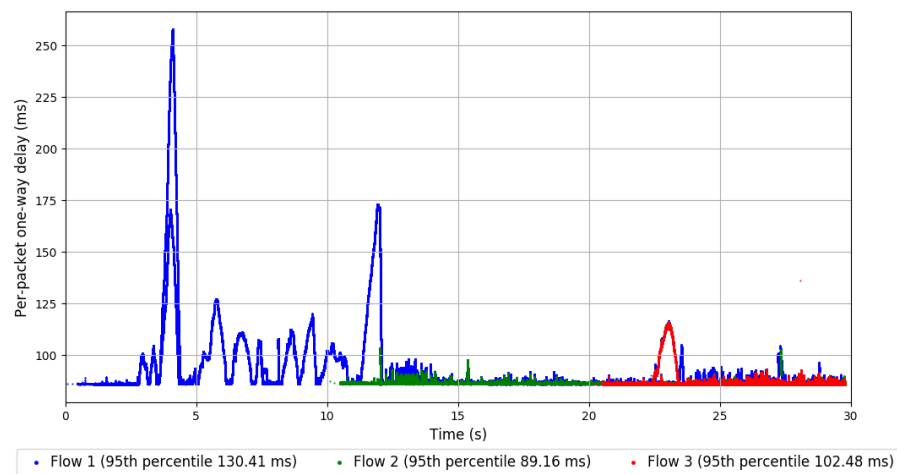
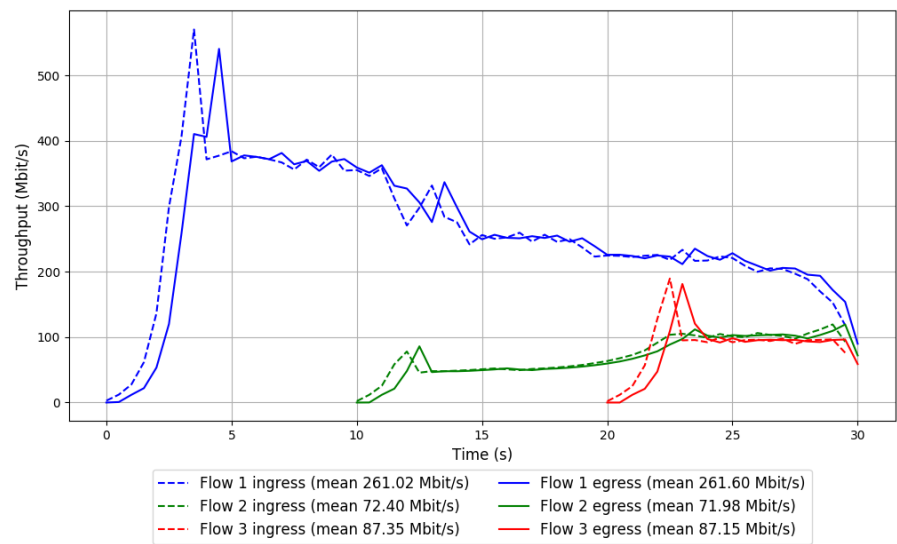


Run 2: Statistics of PCC-Expr

Start at: 2018-05-24 16:23:43
End at: 2018-05-24 16:24:13
Local clock offset: -0.002 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-05-24 21:17:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 337.75 Mbit/s
95th percentile per-packet one-way delay: 122.256 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 261.60 Mbit/s
95th percentile per-packet one-way delay: 130.406 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 71.98 Mbit/s
95th percentile per-packet one-way delay: 89.164 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 87.15 Mbit/s
95th percentile per-packet one-way delay: 102.481 ms
Loss rate: 1.97%

Run 2: Report of PCC-Expr — Data Link

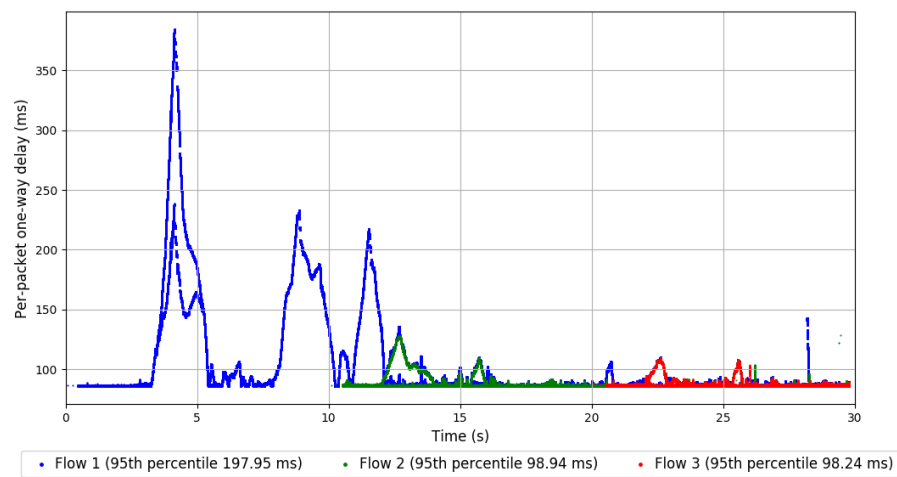
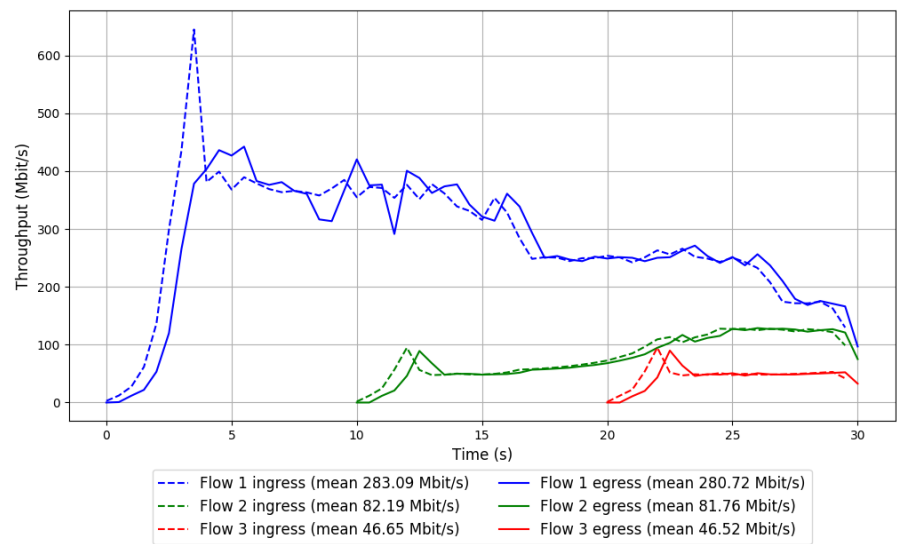


Run 3: Statistics of PCC-Expr

Start at: 2018-05-24 16:47:25
End at: 2018-05-24 16:47:55
Local clock offset: -0.085 ms
Remote clock offset: -0.043 ms

Below is generated by plot.py at 2018-05-24 21:20:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 350.09 Mbit/s
95th percentile per-packet one-way delay: 191.637 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 280.72 Mbit/s
95th percentile per-packet one-way delay: 197.947 ms
Loss rate: 1.41%
-- Flow 2:
Average throughput: 81.76 Mbit/s
95th percentile per-packet one-way delay: 98.943 ms
Loss rate: 1.39%
-- Flow 3:
Average throughput: 46.52 Mbit/s
95th percentile per-packet one-way delay: 98.241 ms
Loss rate: 2.06%

Run 3: Report of PCC-Expr — Data Link

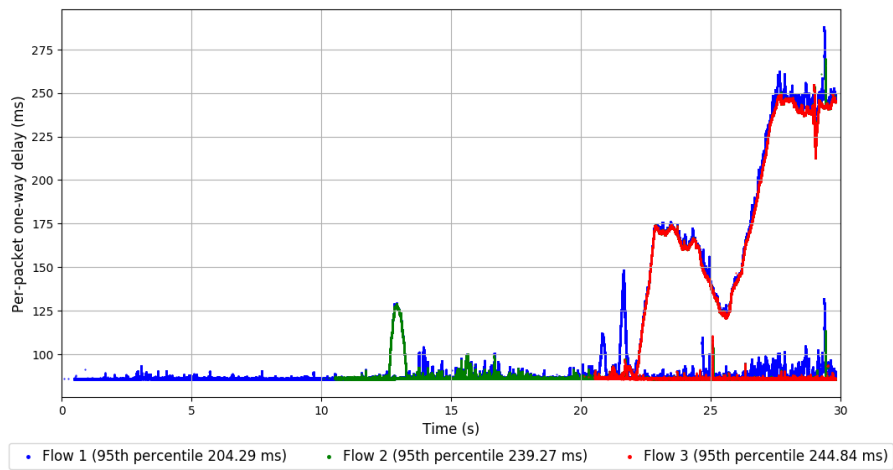
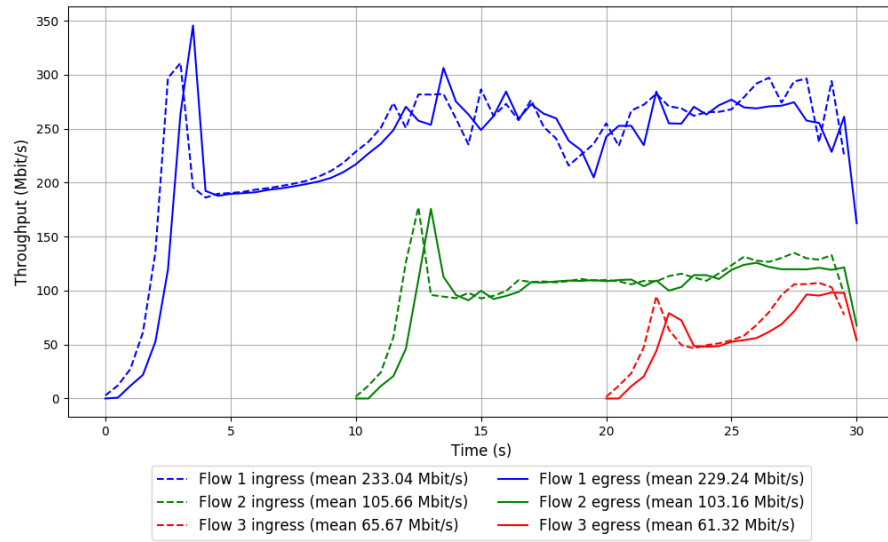


Run 4: Statistics of PCC-Expr

Start at: 2018-05-24 17:11:26
End at: 2018-05-24 17:11:56
Local clock offset: -0.179 ms
Remote clock offset: -0.041 ms

Below is generated by plot.py at 2018-05-24 21:20:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 317.63 Mbit/s
95th percentile per-packet one-way delay: 238.322 ms
Loss rate: 2.82%
-- Flow 1:
Average throughput: 229.24 Mbit/s
95th percentile per-packet one-way delay: 204.286 ms
Loss rate: 2.20%
-- Flow 2:
Average throughput: 103.16 Mbit/s
95th percentile per-packet one-way delay: 239.268 ms
Loss rate: 3.19%
-- Flow 3:
Average throughput: 61.32 Mbit/s
95th percentile per-packet one-way delay: 244.844 ms
Loss rate: 8.26%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-05-24 17:35:15

End at: 2018-05-24 17:35:45

Local clock offset: 0.116 ms

Remote clock offset: 0.002 ms

Below is generated by plot.py at 2018-05-24 21:20:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 273.59 Mbit/s

95th percentile per-packet one-way delay: 89.698 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 202.55 Mbit/s

95th percentile per-packet one-way delay: 90.040 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 90.56 Mbit/s

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

Loss rate: 0.99%

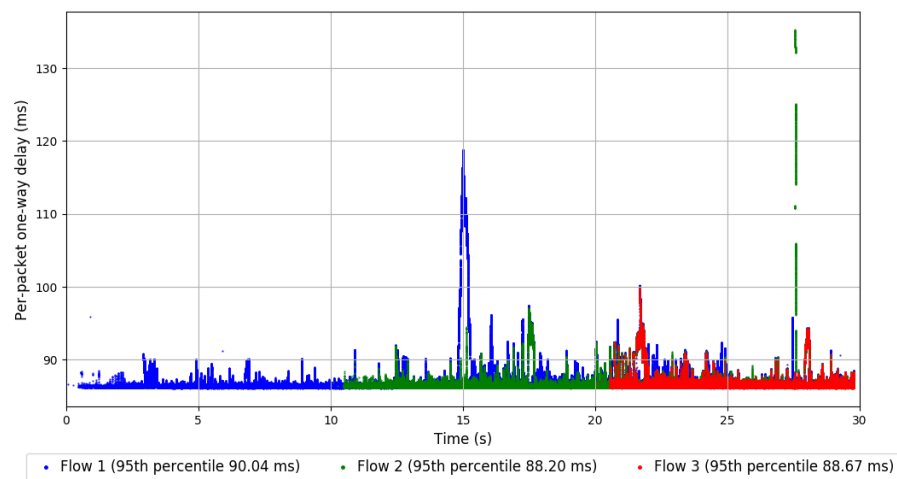
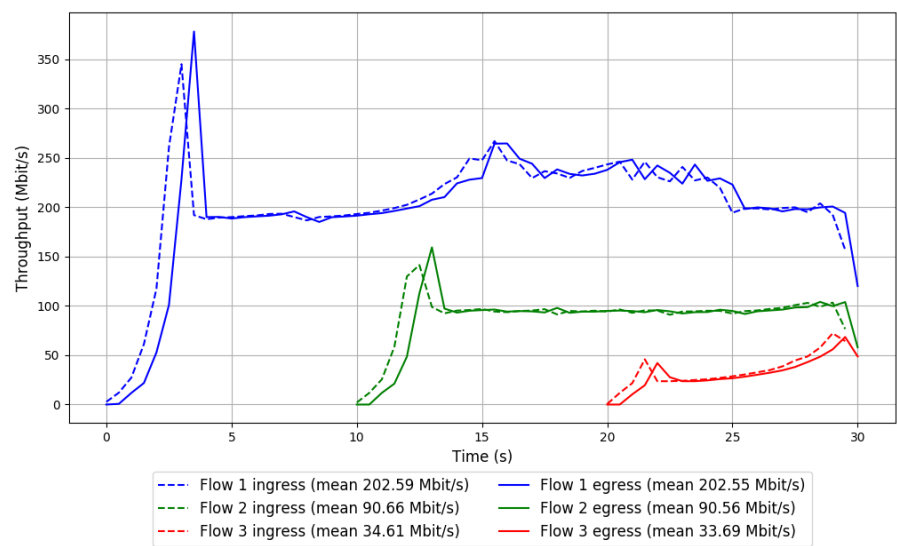
-- Flow 3:

Average throughput: 33.69 Mbit/s

95th percentile per-packet one-way delay: 88.669 ms

Loss rate: 4.37%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-05-24 17:58:21

End at: 2018-05-24 17:58:51

Local clock offset: -0.352 ms

Remote clock offset: 0.19 ms

Below is generated by plot.py at 2018-05-24 21:22:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 312.59 Mbit/s

95th percentile per-packet one-way delay: 140.320 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 217.10 Mbit/s

95th percentile per-packet one-way delay: 135.531 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 100.63 Mbit/s

95th percentile per-packet one-way delay: 141.961 ms

Loss rate: 1.28%

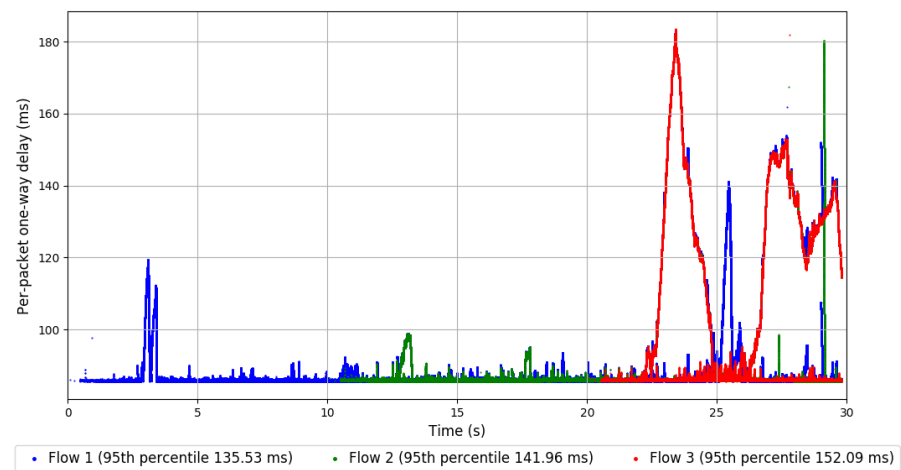
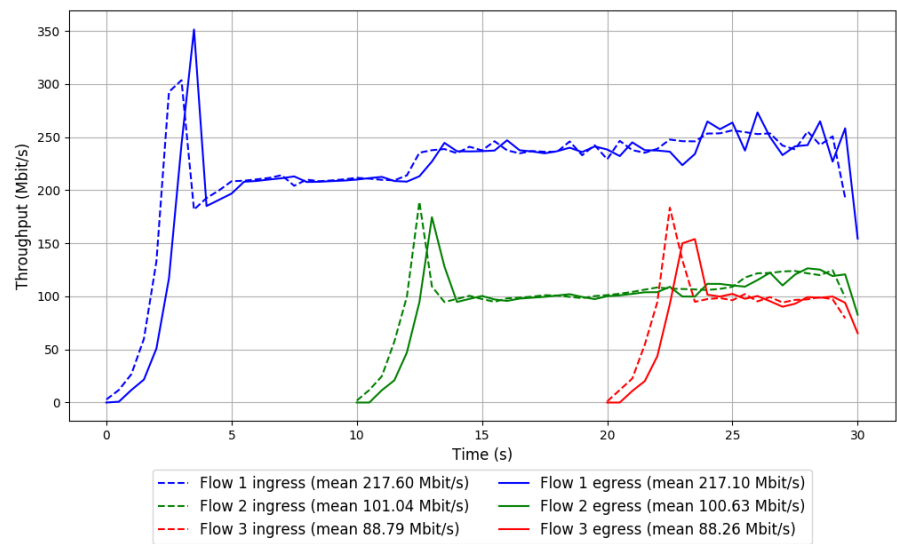
-- Flow 3:

Average throughput: 88.26 Mbit/s

95th percentile per-packet one-way delay: 152.088 ms

Loss rate: 2.36%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-05-24 18:22:19

End at: 2018-05-24 18:22:49

Local clock offset: -0.258 ms

Remote clock offset: 0.329 ms

Below is generated by plot.py at 2018-05-24 21:23:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 322.05 Mbit/s

95th percentile per-packet one-way delay: 240.024 ms

Loss rate: 1.92%

-- Flow 1:

Average throughput: 177.53 Mbit/s

95th percentile per-packet one-way delay: 235.839 ms

Loss rate: 1.39%

-- Flow 2:

Average throughput: 175.68 Mbit/s

95th percentile per-packet one-way delay: 241.362 ms

Loss rate: 2.06%

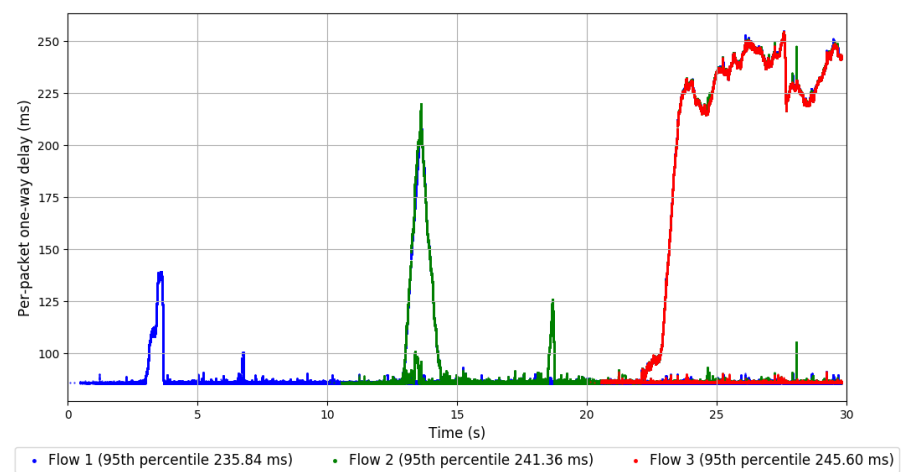
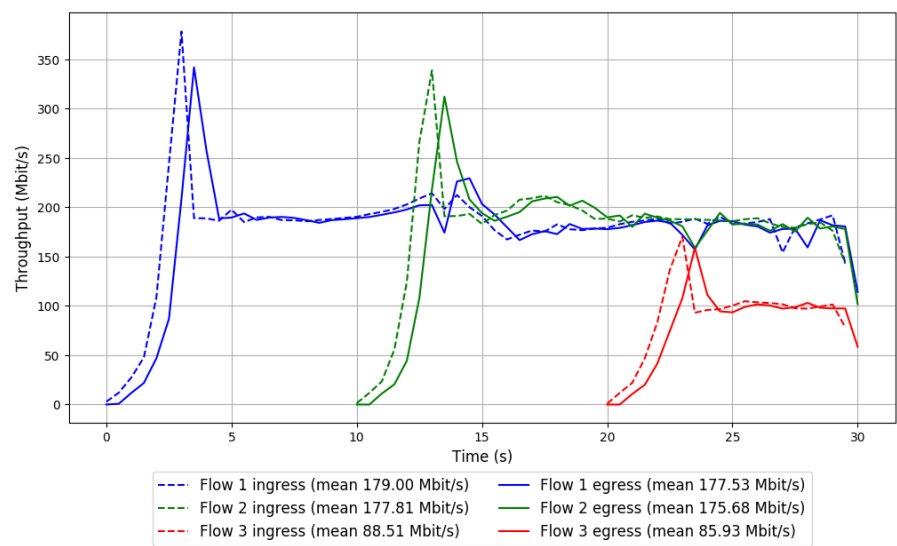
-- Flow 3:

Average throughput: 85.93 Mbit/s

95th percentile per-packet one-way delay: 245.603 ms

Loss rate: 4.62%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-05-24 18:45:17

End at: 2018-05-24 18:45:47

Local clock offset: 0.59 ms

Remote clock offset: 0.425 ms

Below is generated by plot.py at 2018-05-24 21:23:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 281.06 Mbit/s

95th percentile per-packet one-way delay: 101.353 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 229.24 Mbit/s

95th percentile per-packet one-way delay: 101.038 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 55.79 Mbit/s

95th percentile per-packet one-way delay: 102.740 ms

Loss rate: 1.51%

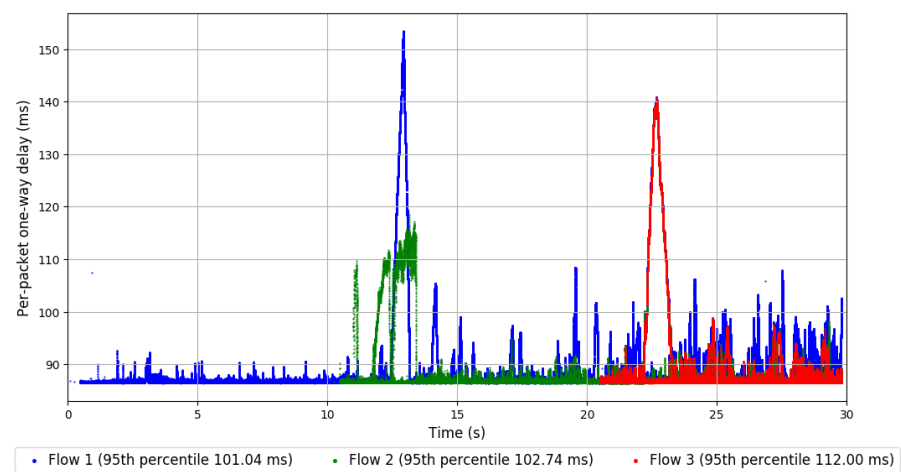
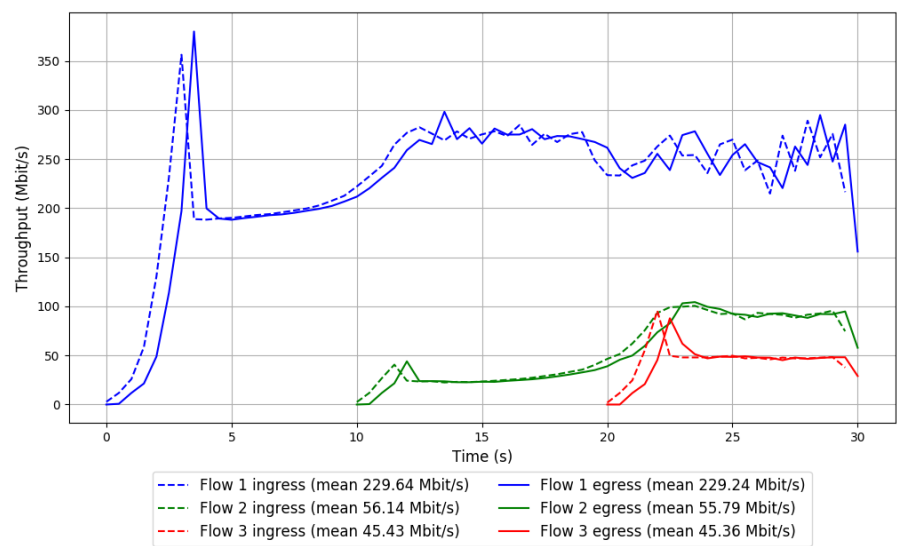
-- Flow 3:

Average throughput: 45.36 Mbit/s

95th percentile per-packet one-way delay: 112.004 ms

Loss rate: 1.92%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-05-24 19:09:08

End at: 2018-05-24 19:09:38

Local clock offset: 0.2 ms

Remote clock offset: 0.483 ms

Below is generated by plot.py at 2018-05-24 21:26:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 289.86 Mbit/s

95th percentile per-packet one-way delay: 232.008 ms

Loss rate: 2.00%

-- Flow 1:

Average throughput: 194.60 Mbit/s

95th percentile per-packet one-way delay: 217.520 ms

Loss rate: 1.55%

-- Flow 2:

Average throughput: 118.63 Mbit/s

95th percentile per-packet one-way delay: 237.787 ms

Loss rate: 2.52%

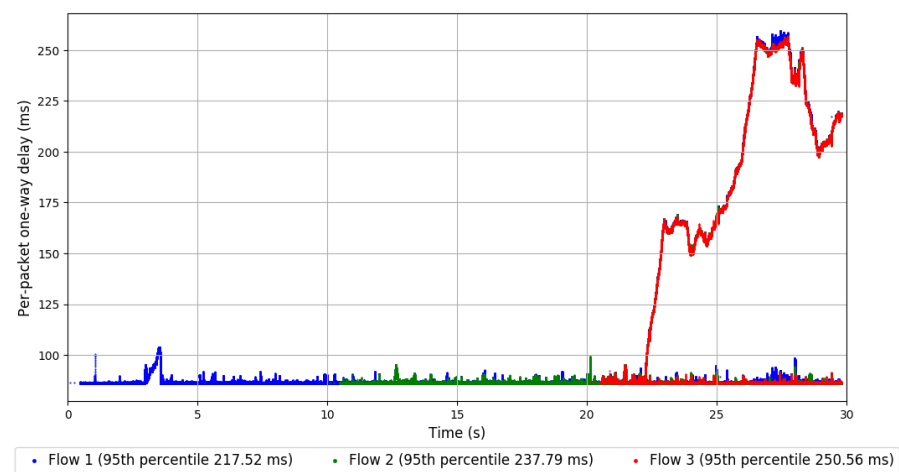
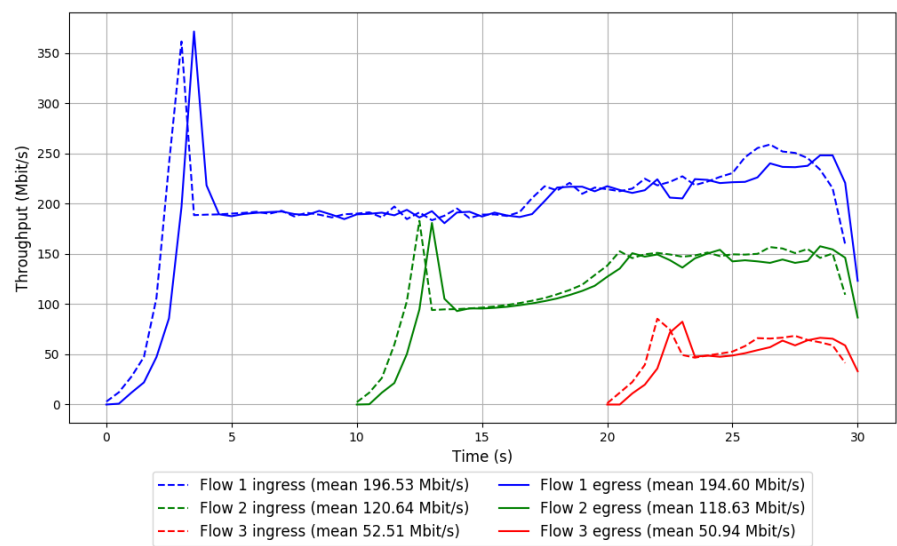
-- Flow 3:

Average throughput: 50.94 Mbit/s

95th percentile per-packet one-way delay: 250.555 ms

Loss rate: 4.69%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-05-24 19:32:29

End at: 2018-05-24 19:32:59

Local clock offset: -0.186 ms

Remote clock offset: 0.298 ms

Below is generated by plot.py at 2018-05-24 21:28:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 316.60 Mbit/s

95th percentile per-packet one-way delay: 116.017 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 187.92 Mbit/s

95th percentile per-packet one-way delay: 112.795 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 182.23 Mbit/s

95th percentile per-packet one-way delay: 124.857 ms

Loss rate: 1.04%

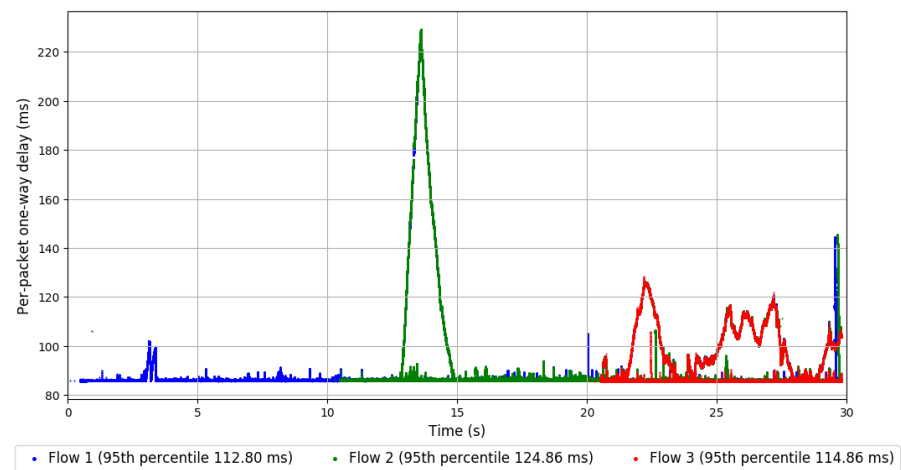
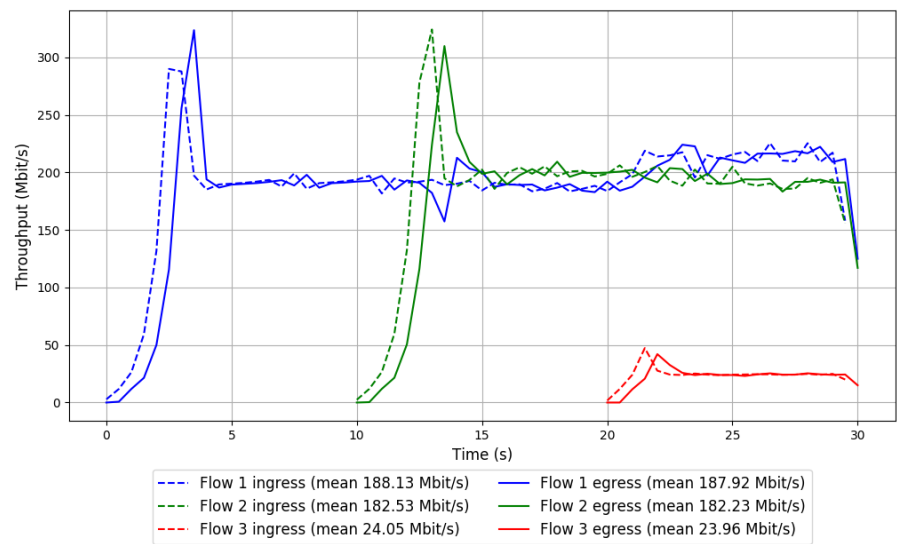
-- Flow 3:

Average throughput: 23.96 Mbit/s

95th percentile per-packet one-way delay: 114.863 ms

Loss rate: 2.11%

Run 10: Report of PCC-Expr — Data Link

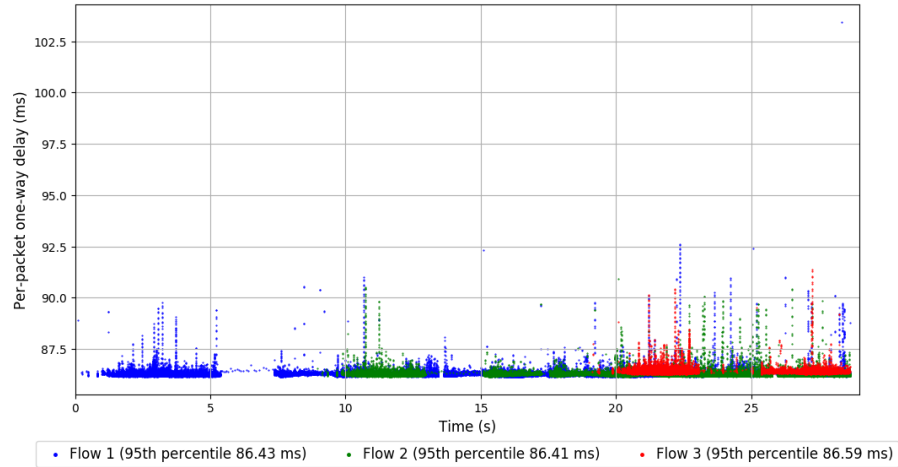
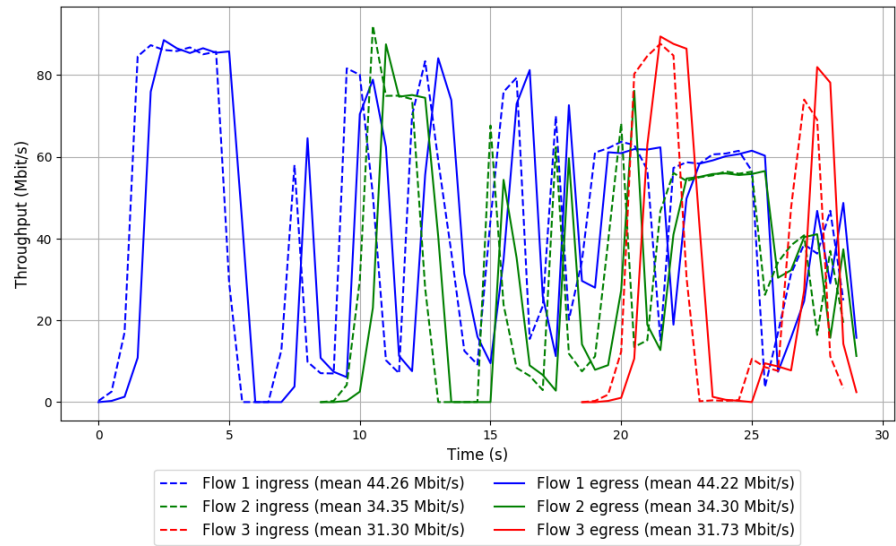


Run 1: Statistics of QUIC Cubic

Start at: 2018-05-24 16:03:42
End at: 2018-05-24 16:04:12
Local clock offset: -0.088 ms
Remote clock offset: -0.082 ms

Below is generated by plot.py at 2018-05-24 21:28:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.61 Mbit/s
95th percentile per-packet one-way delay: 86.469 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 44.22 Mbit/s
95th percentile per-packet one-way delay: 86.427 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 34.30 Mbit/s
95th percentile per-packet one-way delay: 86.413 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 31.73 Mbit/s
95th percentile per-packet one-way delay: 86.593 ms
Loss rate: 0.38%

Run 1: Report of QUIC Cubic — Data Link

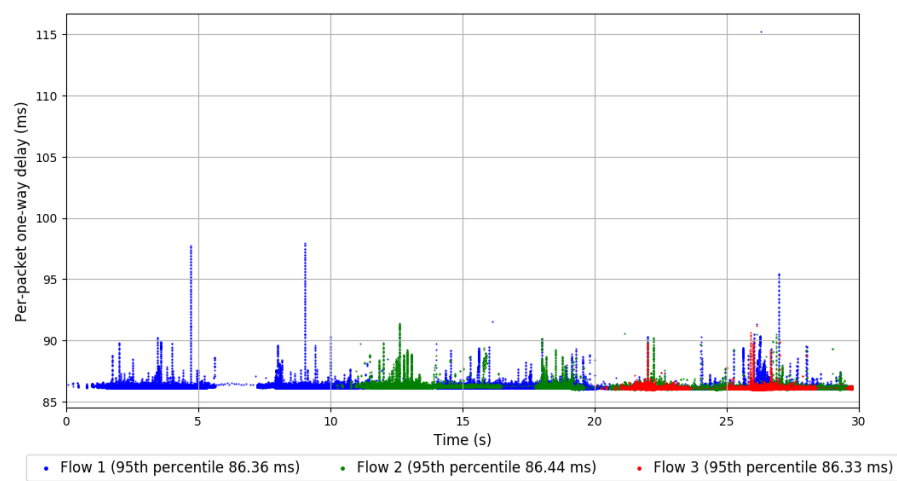
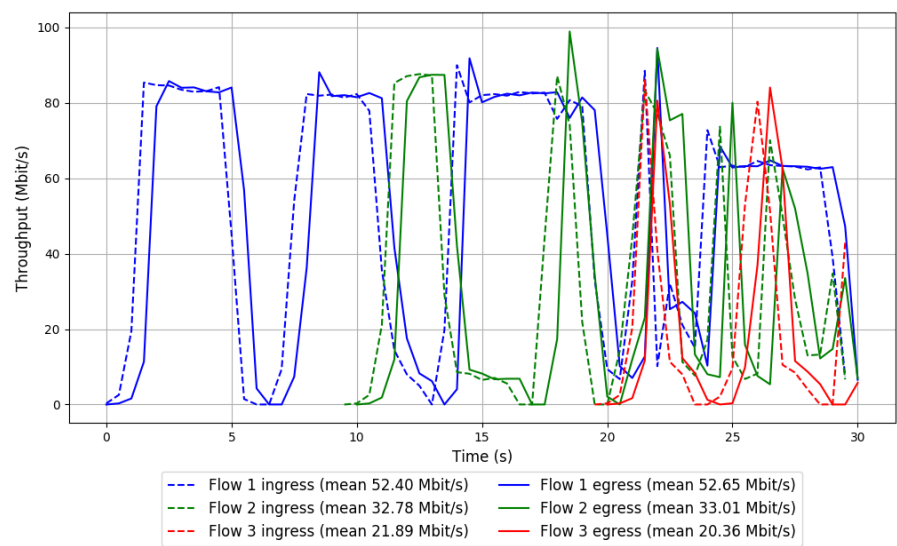


Run 2: Statistics of QUIC Cubic

Start at: 2018-05-24 16:27:10
End at: 2018-05-24 16:27:40
Local clock offset: 0.004 ms
Remote clock offset: -0.098 ms

Below is generated by plot.py at 2018-05-24 21:28:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.18 Mbit/s
95th percentile per-packet one-way delay: 86.379 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 52.65 Mbit/s
95th percentile per-packet one-way delay: 86.365 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 33.01 Mbit/s
95th percentile per-packet one-way delay: 86.435 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 20.36 Mbit/s
95th percentile per-packet one-way delay: 86.327 ms
Loss rate: 8.61%

Run 2: Report of QUIC Cubic — Data Link

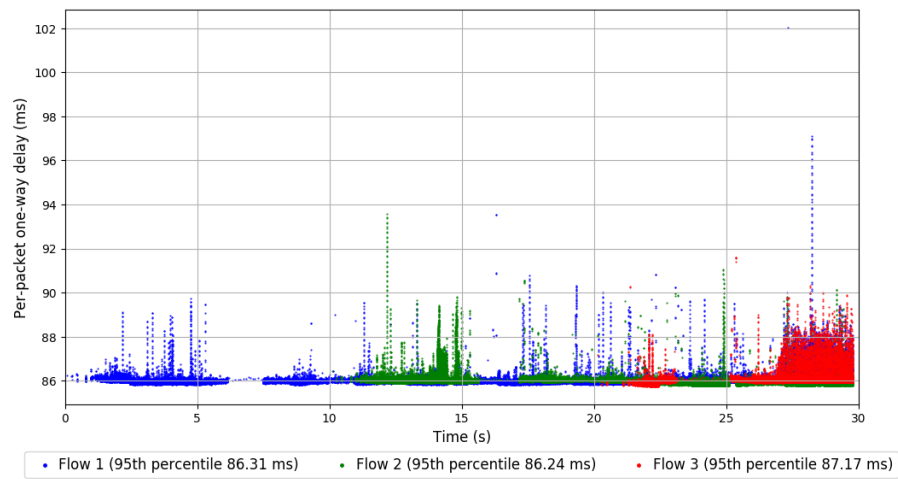
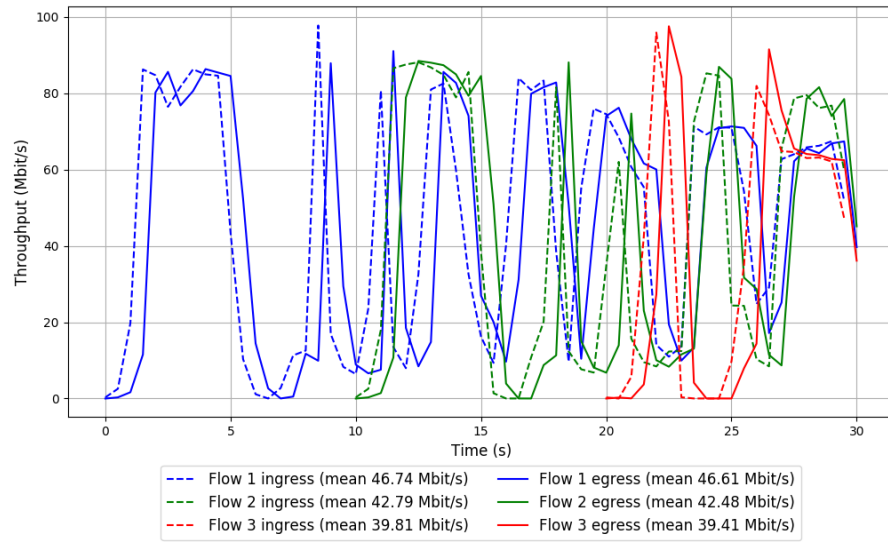


Run 3: Statistics of QUIC Cubic

Start at: 2018-05-24 16:50:57
End at: 2018-05-24 16:51:27
Local clock offset: -0.103 ms
Remote clock offset: -0.049 ms

Below is generated by plot.py at 2018-05-24 21:28:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.59 Mbit/s
95th percentile per-packet one-way delay: 86.443 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 46.61 Mbit/s
95th percentile per-packet one-way delay: 86.309 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 42.48 Mbit/s
95th percentile per-packet one-way delay: 86.238 ms
Loss rate: 1.60%
-- Flow 3:
Average throughput: 39.41 Mbit/s
95th percentile per-packet one-way delay: 87.167 ms
Loss rate: 2.76%

Run 3: Report of QUIC Cubic — Data Link

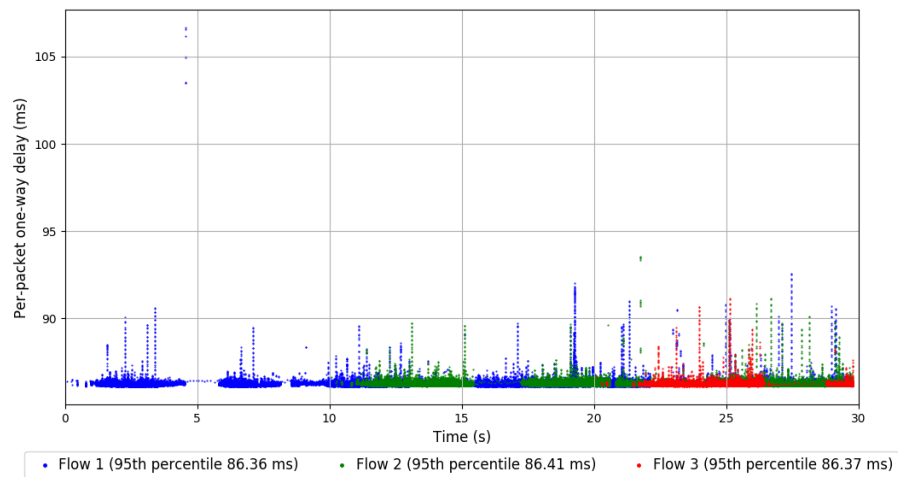
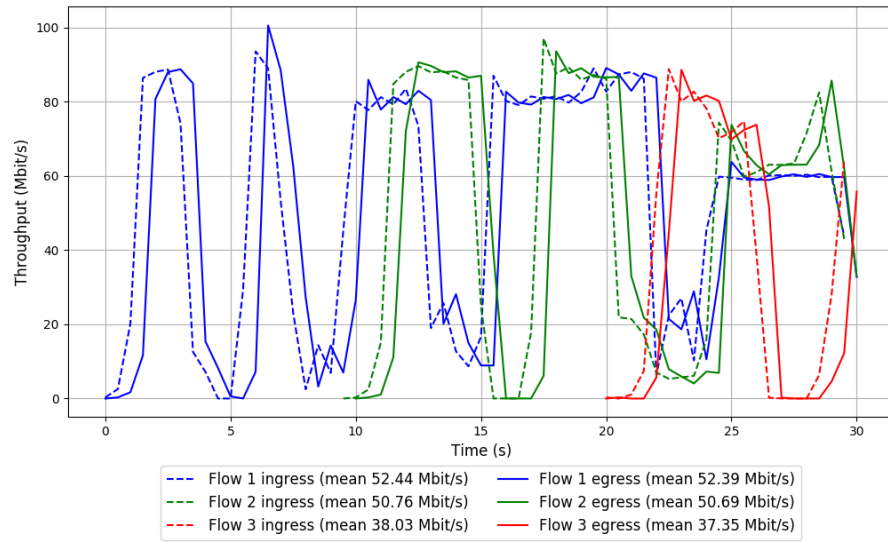


Run 4: Statistics of QUIC Cubic

Start at: 2018-05-24 17:14:47
End at: 2018-05-24 17:15:17
Local clock offset: 0.094 ms
Remote clock offset: -0.014 ms

Below is generated by plot.py at 2018-05-24 21:28:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 98.16 Mbit/s
95th percentile per-packet one-way delay: 86.383 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 52.39 Mbit/s
95th percentile per-packet one-way delay: 86.365 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 50.69 Mbit/s
95th percentile per-packet one-way delay: 86.406 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 37.35 Mbit/s
95th percentile per-packet one-way delay: 86.370 ms
Loss rate: 3.50%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-05-24 17:38:34

End at: 2018-05-24 17:39:04

Local clock offset: 0.063 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2018-05-24 21:28:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.89 Mbit/s

95th percentile per-packet one-way delay: 100.650 ms

Loss rate: 1.69%

-- Flow 1:

Average throughput: 13.23 Mbit/s

95th percentile per-packet one-way delay: 104.396 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 31.65 Mbit/s

95th percentile per-packet one-way delay: 86.280 ms

Loss rate: 0.85%

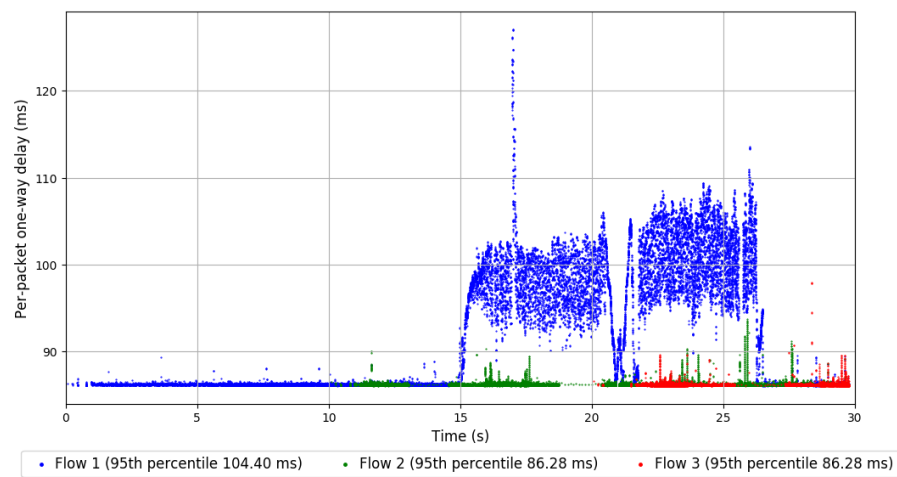
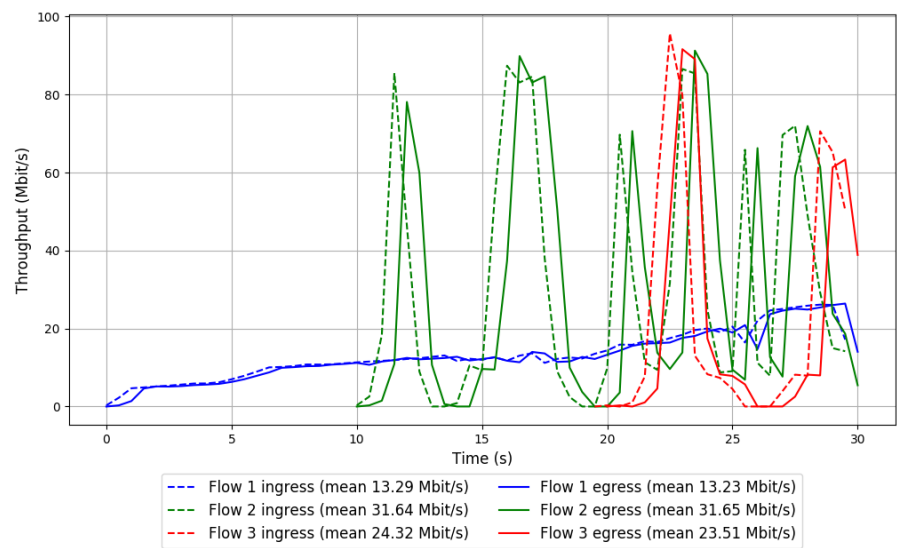
-- Flow 3:

Average throughput: 23.51 Mbit/s

95th percentile per-packet one-way delay: 86.276 ms

Loss rate: 5.02%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-05-24 18:01:39

End at: 2018-05-24 18:02:09

Local clock offset: -0.163 ms

Remote clock offset: 0.191 ms

Below is generated by plot.py at 2018-05-24 21:28:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.64 Mbit/s

95th percentile per-packet one-way delay: 86.331 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 43.60 Mbit/s

95th percentile per-packet one-way delay: 86.227 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 42.22 Mbit/s

95th percentile per-packet one-way delay: 86.552 ms

Loss rate: 1.56%

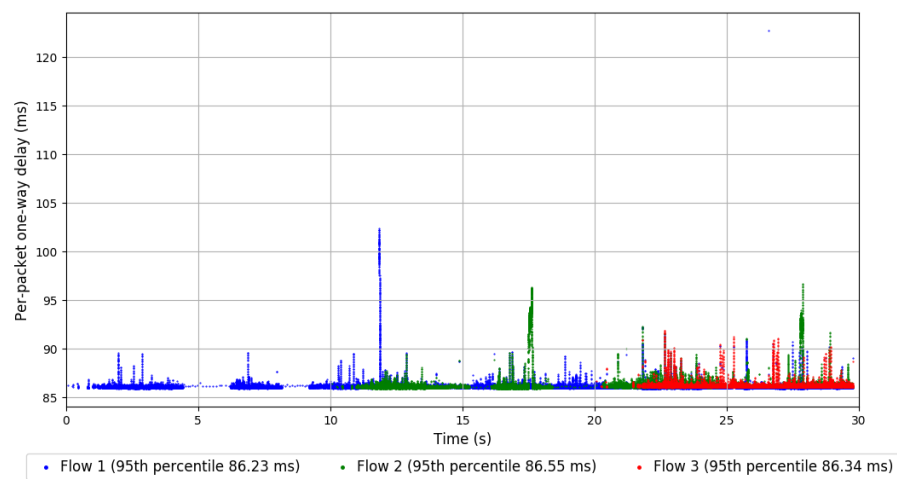
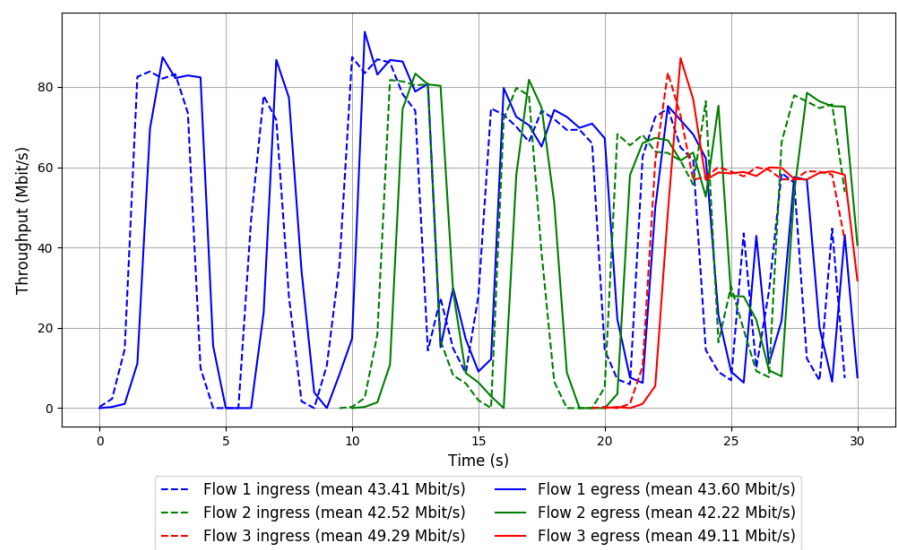
-- Flow 3:

Average throughput: 49.11 Mbit/s

95th percentile per-packet one-way delay: 86.339 ms

Loss rate: 2.08%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-05-24 18:25:31

End at: 2018-05-24 18:26:01

Local clock offset: -0.04 ms

Remote clock offset: 0.336 ms

Below is generated by plot.py at 2018-05-24 21:28:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.22 Mbit/s

95th percentile per-packet one-way delay: 86.213 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 8.33 Mbit/s

95th percentile per-packet one-way delay: 86.247 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 35.91 Mbit/s

95th percentile per-packet one-way delay: 86.218 ms

Loss rate: 0.13%

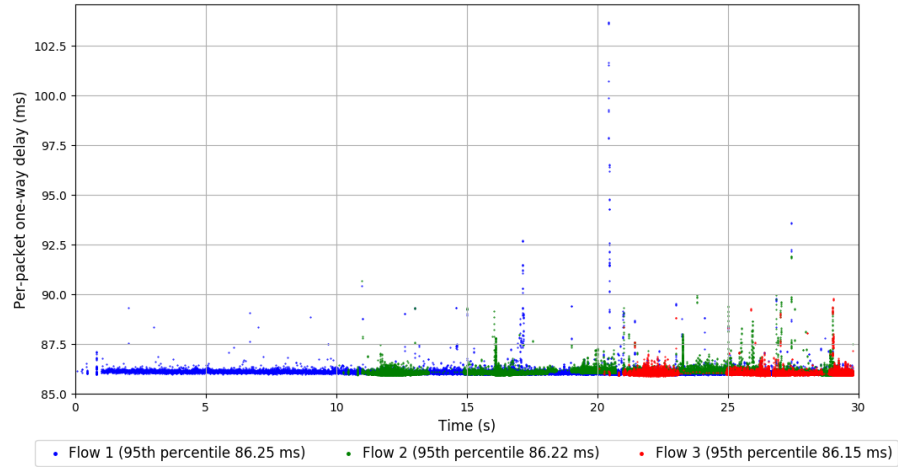
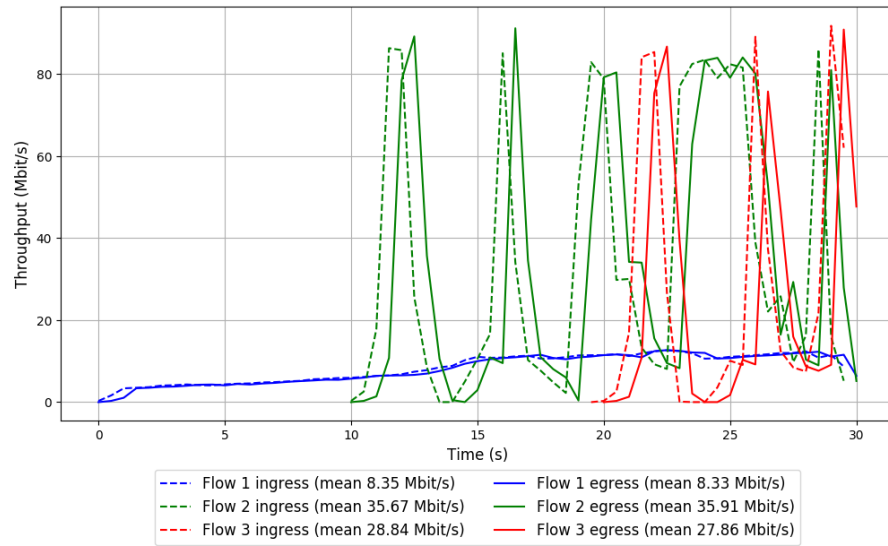
-- Flow 3:

Average throughput: 27.86 Mbit/s

95th percentile per-packet one-way delay: 86.148 ms

Loss rate: 5.12%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-05-24 18:48:33

End at: 2018-05-24 18:49:03

Local clock offset: 0.3 ms

Remote clock offset: 0.415 ms

Below is generated by plot.py at 2018-05-24 21:28:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.77 Mbit/s

95th percentile per-packet one-way delay: 86.436 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 52.80 Mbit/s

95th percentile per-packet one-way delay: 86.442 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 36.25 Mbit/s

95th percentile per-packet one-way delay: 86.431 ms

Loss rate: 0.37%

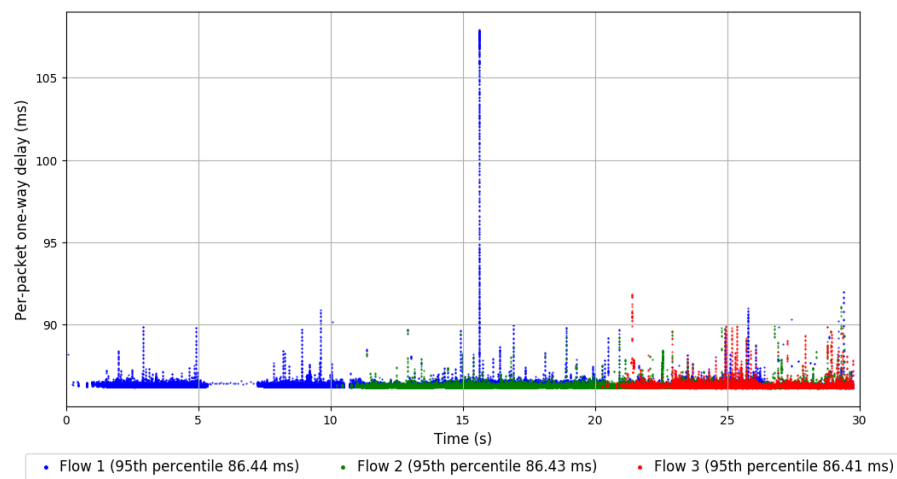
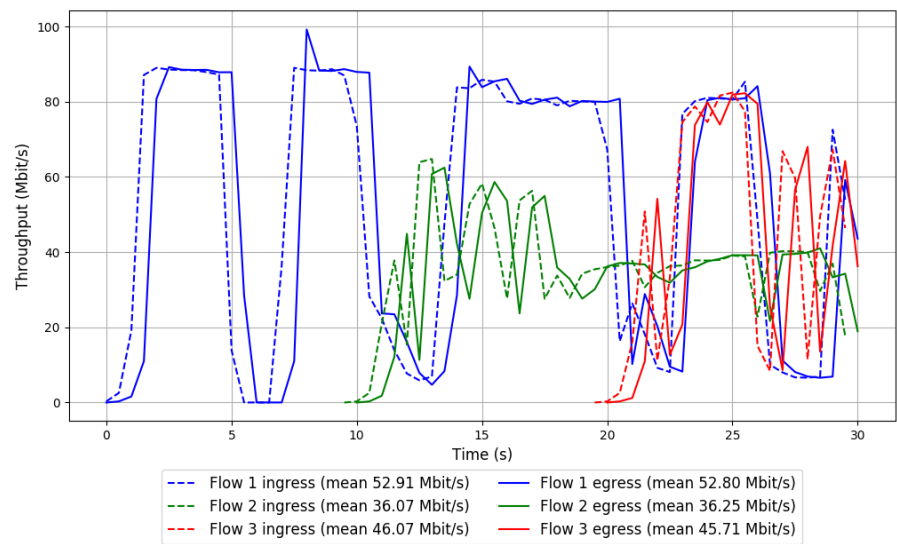
-- Flow 3:

Average throughput: 45.71 Mbit/s

95th percentile per-packet one-way delay: 86.406 ms

Loss rate: 2.52%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-05-24 19:12:24

End at: 2018-05-24 19:12:54

Local clock offset: 0.03 ms

Remote clock offset: 0.543 ms

Below is generated by plot.py at 2018-05-24 21:28:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.89 Mbit/s

95th percentile per-packet one-way delay: 86.294 ms

Loss rate: 1.14%

-- Flow 1:

Average throughput: 45.71 Mbit/s

95th percentile per-packet one-way delay: 86.278 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 41.08 Mbit/s

95th percentile per-packet one-way delay: 86.290 ms

Loss rate: 1.33%

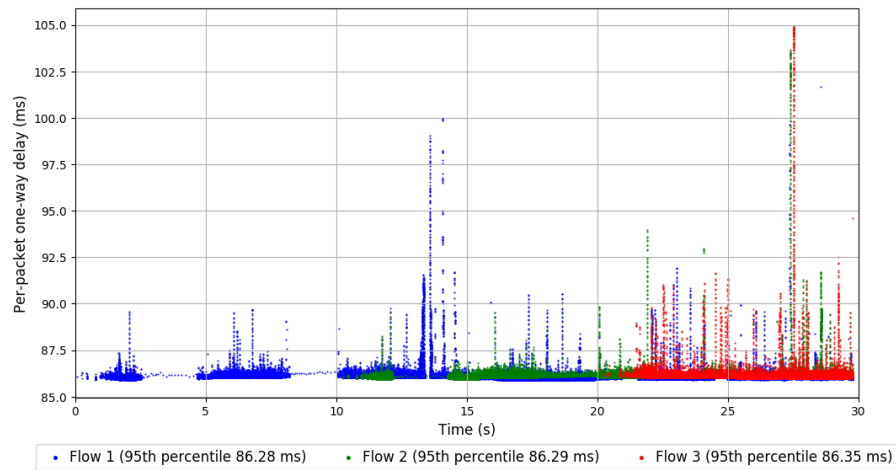
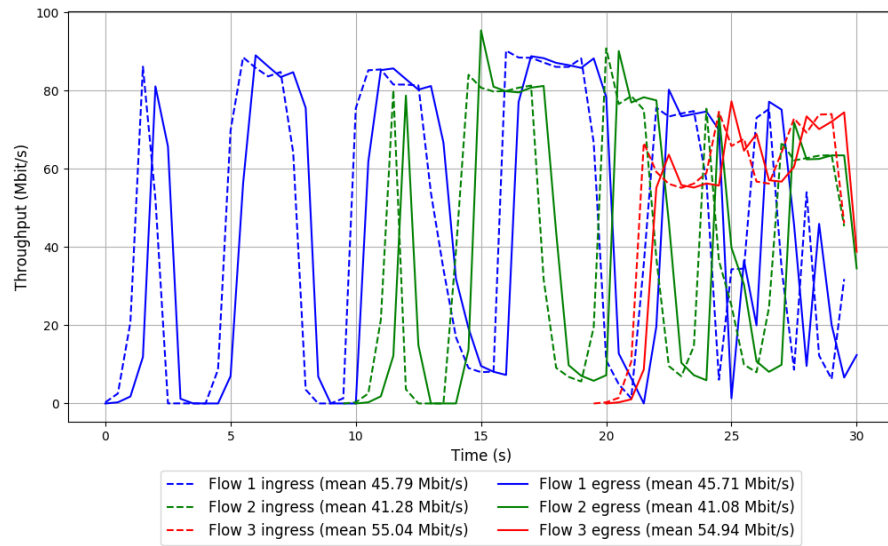
-- Flow 3:

Average throughput: 54.94 Mbit/s

95th percentile per-packet one-way delay: 86.346 ms

Loss rate: 1.86%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-05-24 19:35:43

End at: 2018-05-24 19:36:13

Local clock offset: -0.232 ms

Remote clock offset: 0.105 ms

Below is generated by plot.py at 2018-05-24 21:28:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.67 Mbit/s

95th percentile per-packet one-way delay: 86.113 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 42.69 Mbit/s

95th percentile per-packet one-way delay: 86.076 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 42.27 Mbit/s

95th percentile per-packet one-way delay: 86.153 ms

Loss rate: 0.20%

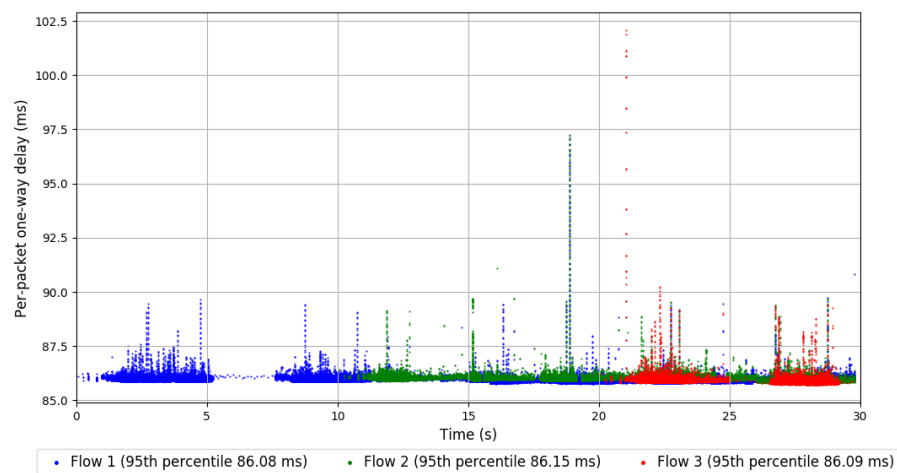
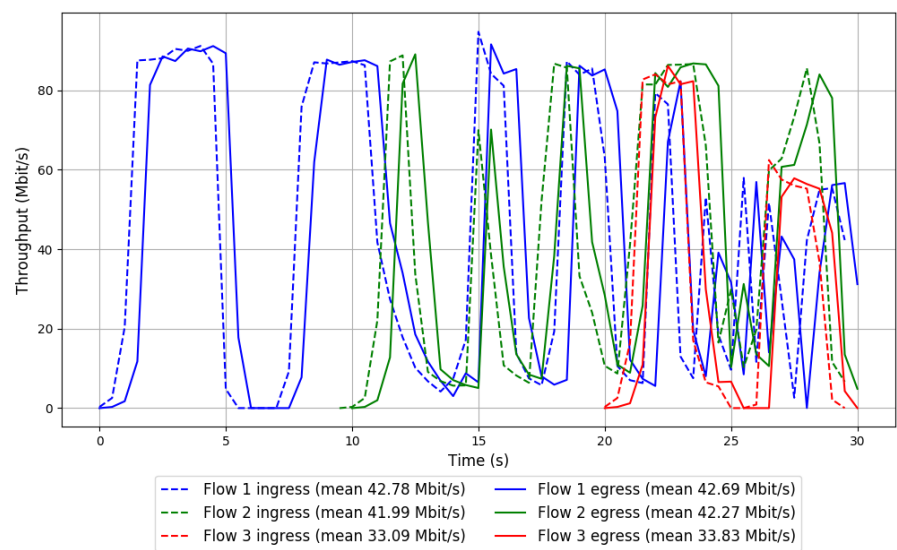
-- Flow 3:

Average throughput: 33.83 Mbit/s

95th percentile per-packet one-way delay: 86.089 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

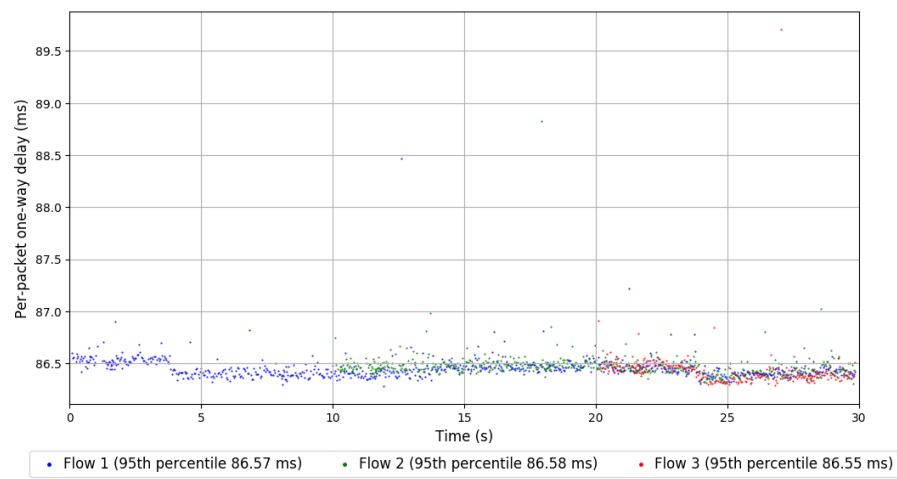
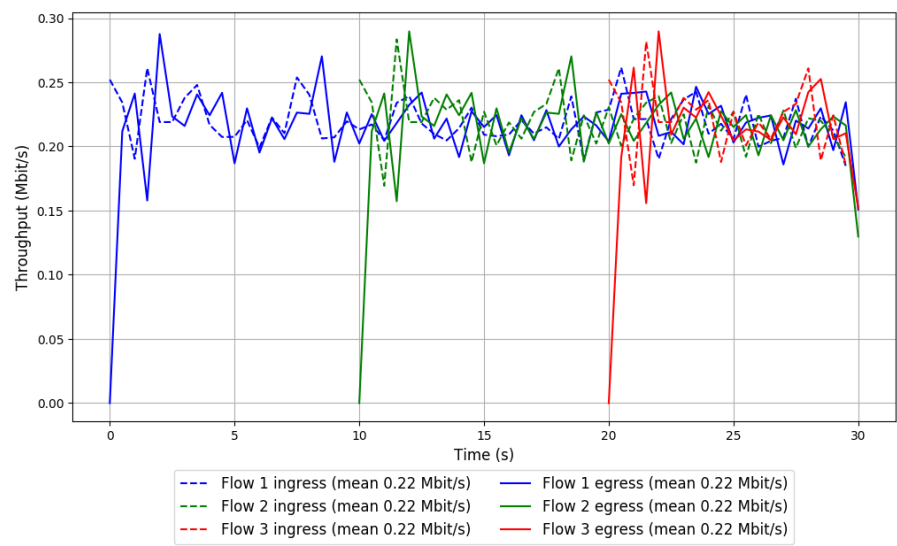


Run 1: Statistics of SReAM

Start at: 2018-05-24 16:08:35
End at: 2018-05-24 16:09:05
Local clock offset: -0.096 ms
Remote clock offset: -0.144 ms

Below is generated by plot.py at 2018-05-24 21:28:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.570 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.570 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.576 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.547 ms
Loss rate: 1.85%

Run 1: Report of SReAM — Data Link

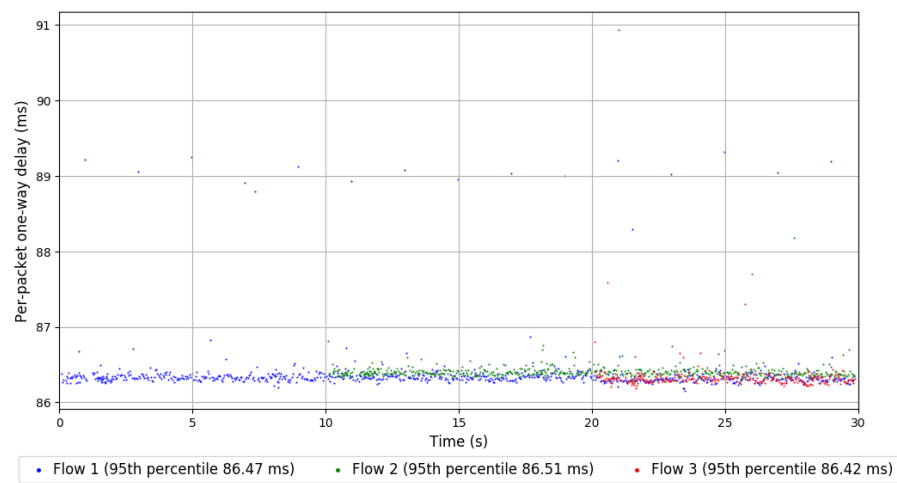
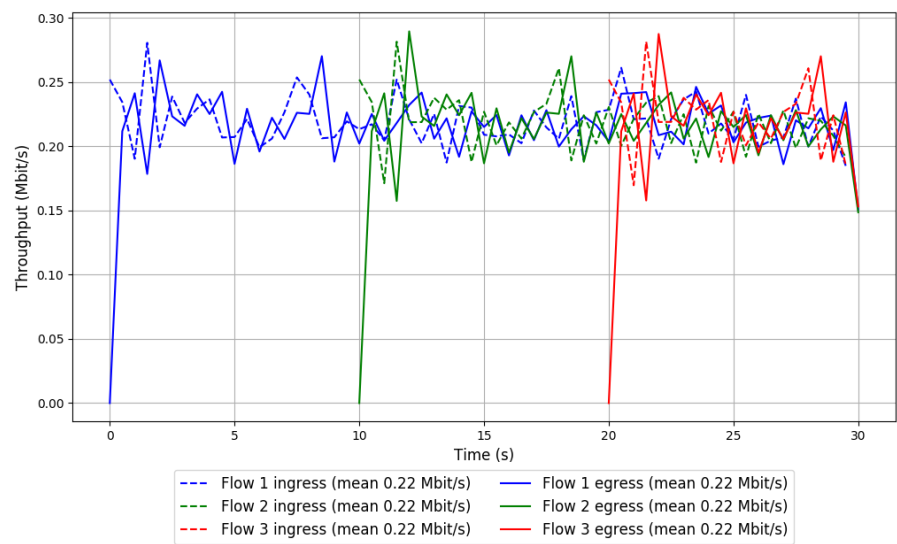


Run 2: Statistics of SReAM

Start at: 2018-05-24 16:32:13
End at: 2018-05-24 16:32:43
Local clock offset: 0.101 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-05-24 21:28:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.495 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.471 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.510 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.419 ms
Loss rate: 1.46%

Run 2: Report of SReAM — Data Link

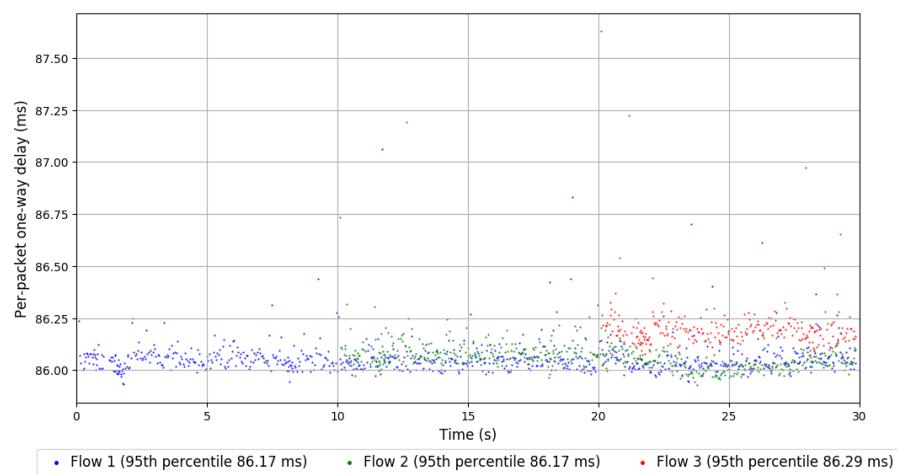
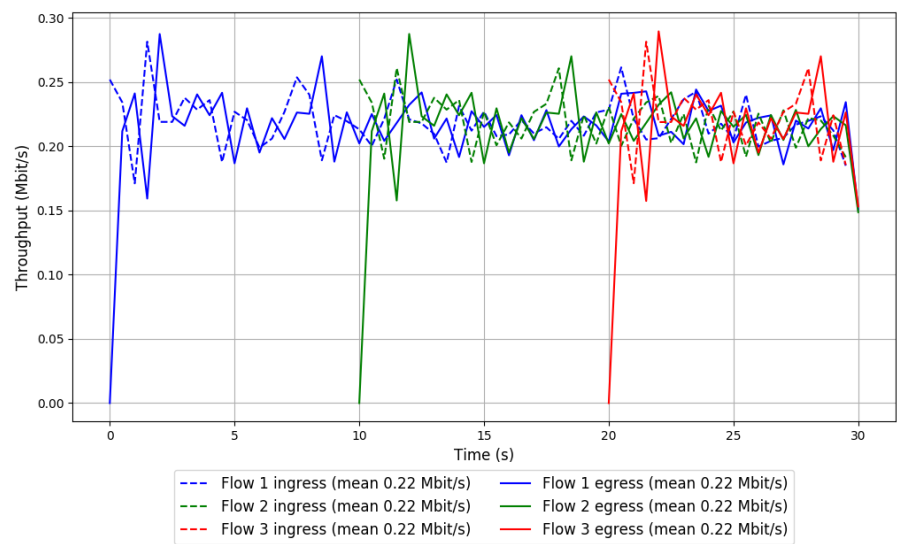


Run 3: Statistics of SReAM

Start at: 2018-05-24 16:55:59
End at: 2018-05-24 16:56:29
Local clock offset: -0.104 ms
Remote clock offset: -0.054 ms

Below is generated by plot.py at 2018-05-24 21:28:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.232 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.165 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.173 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.287 ms
Loss rate: 1.46%

Run 3: Report of SReAM — Data Link

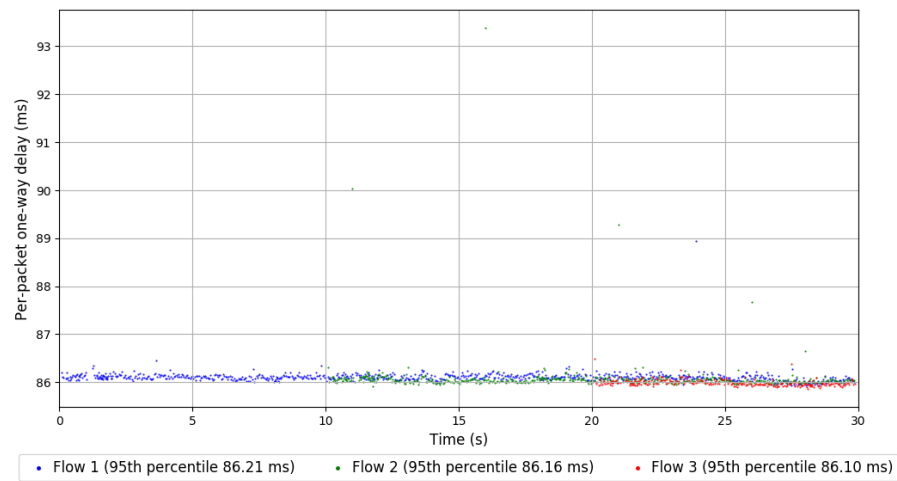
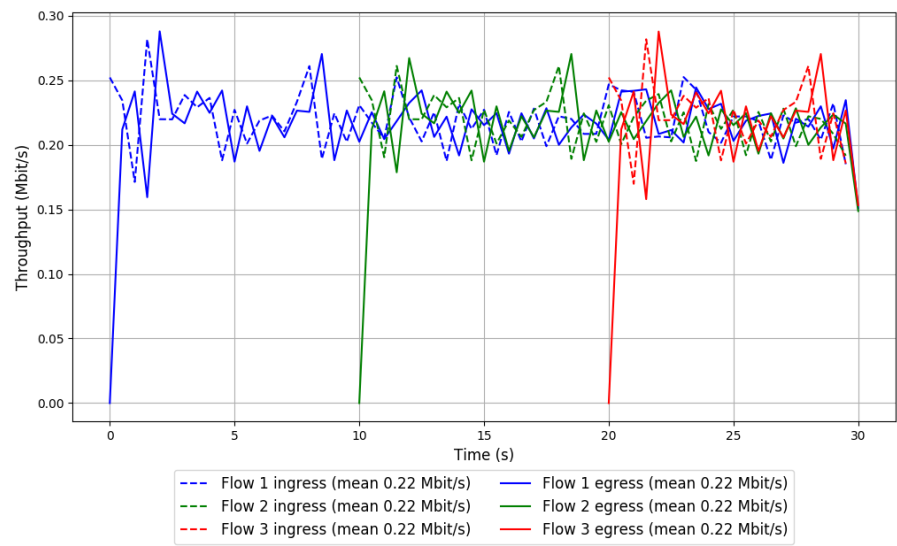


Run 4: Statistics of SReAM

Start at: 2018-05-24 17:19:52
End at: 2018-05-24 17:20:22
Local clock offset: -0.265 ms
Remote clock offset: -0.046 ms

```
# Below is generated by plot.py at 2018-05-24 21:28:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.194 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.209 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.160 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.100 ms
Loss rate: 1.46%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-05-24 17:43:26

End at: 2018-05-24 17:43:56

Local clock offset: -0.136 ms

Remote clock offset: 0.02 ms

Below is generated by plot.py at 2018-05-24 21:28:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.298 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.267 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.302 ms

Loss rate: 0.82%

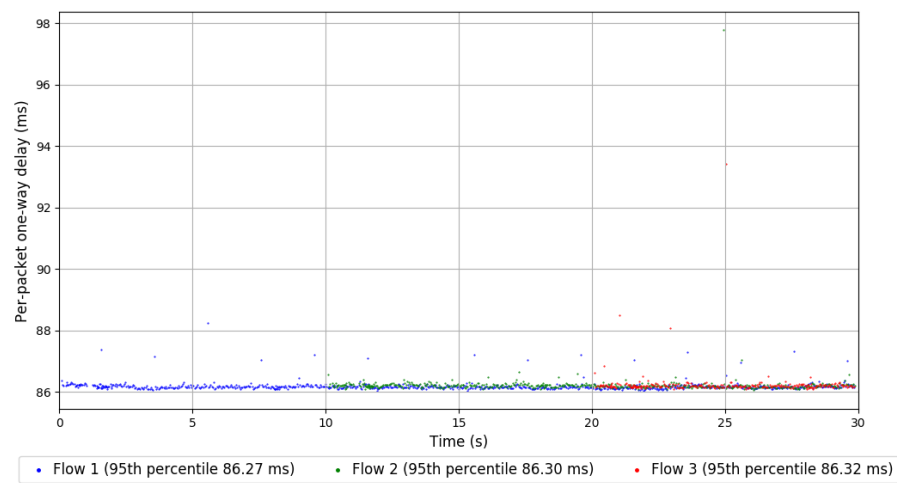
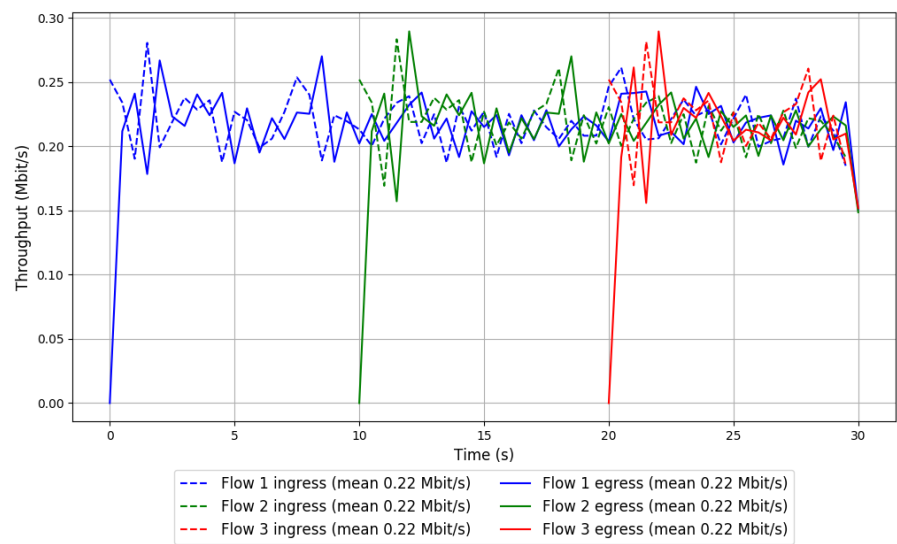
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.324 ms

Loss rate: 1.85%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-05-24 18:06:33

End at: 2018-05-24 18:07:03

Local clock offset: -0.451 ms

Remote clock offset: 0.261 ms

Below is generated by plot.py at 2018-05-24 21:28:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 86.118 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.19 Mbit/s

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

Loss rate: 1.08%

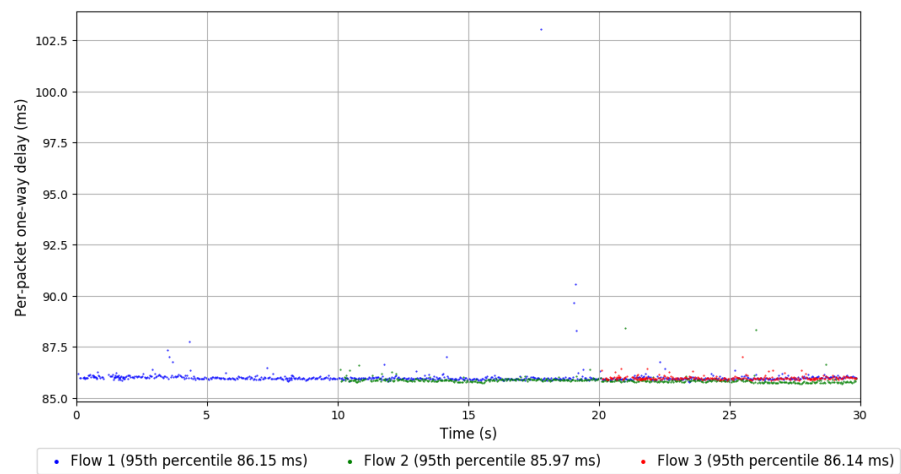
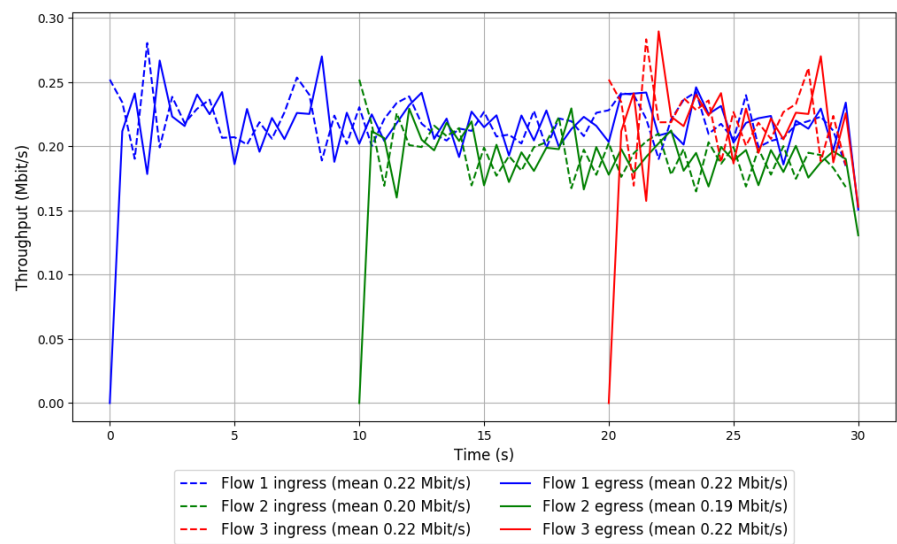
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.144 ms

Loss rate: 1.46%

Run 6: Report of SReAM — Data Link

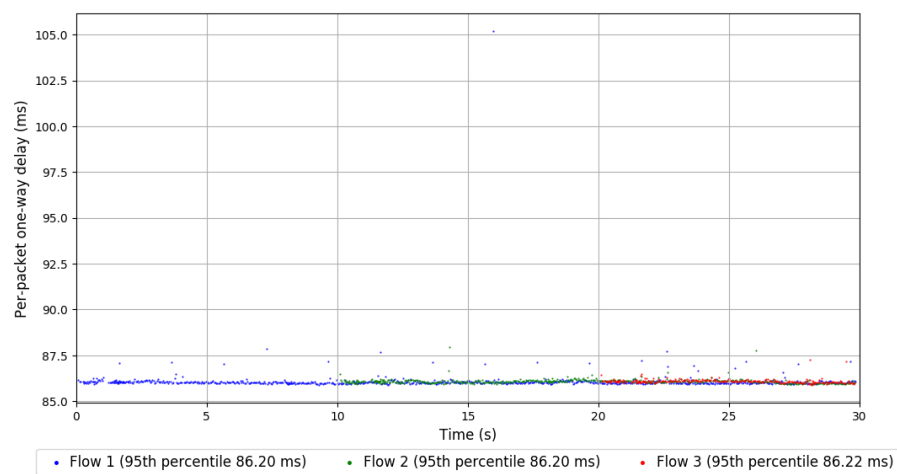
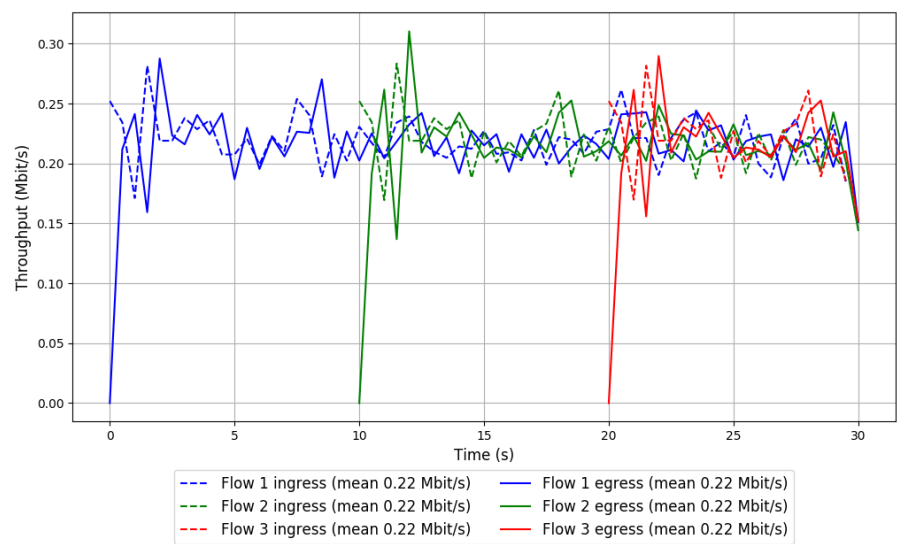


Run 7: Statistics of SReAM

Start at: 2018-05-24 18:30:22
End at: 2018-05-24 18:30:52
Local clock offset: -0.111 ms
Remote clock offset: 0.386 ms

Below is generated by plot.py at 2018-05-24 21:28:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.207 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.204 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.197 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.217 ms
Loss rate: 1.85%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-05-24 18:53:29

End at: 2018-05-24 18:53:59

Local clock offset: 0.594 ms

Remote clock offset: 0.427 ms

Below is generated by plot.py at 2018-05-24 21:28:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.900 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.899 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.928 ms

Loss rate: 1.04%

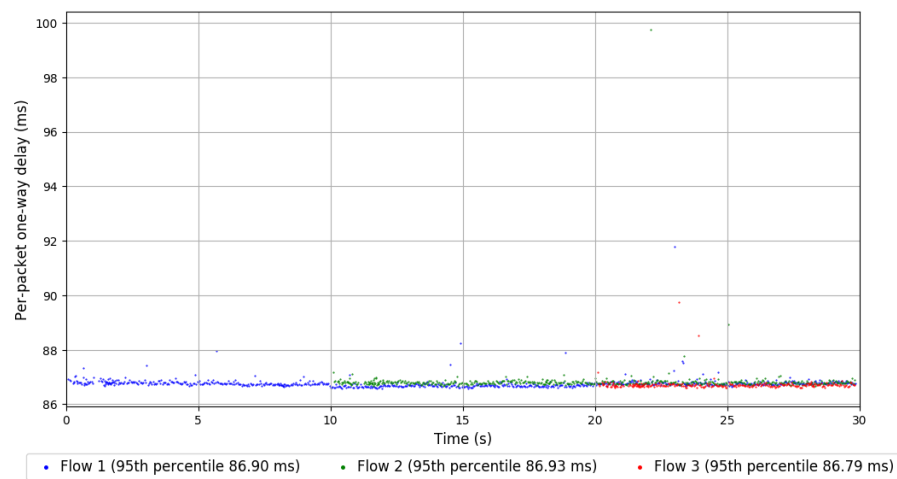
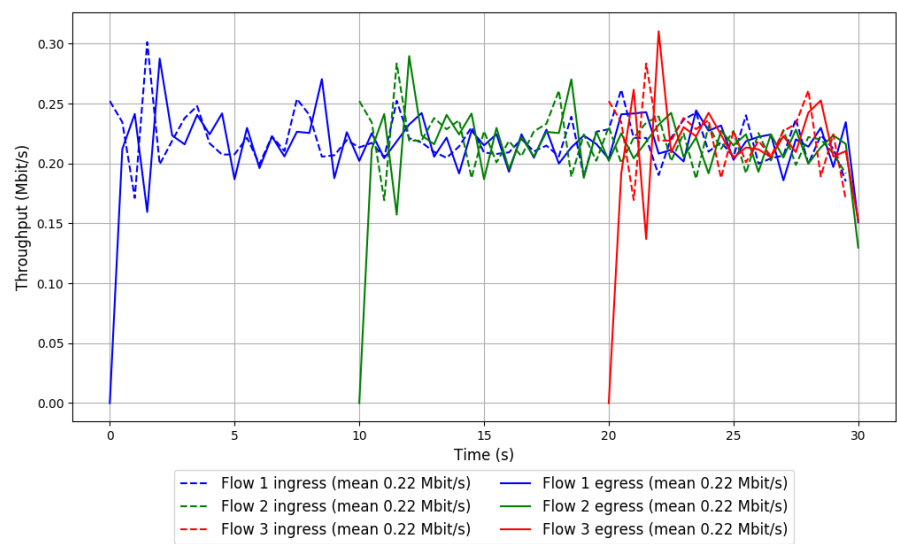
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.794 ms

Loss rate: 1.50%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-05-24 19:17:19

End at: 2018-05-24 19:17:49

Local clock offset: -0.029 ms

Remote clock offset: 0.524 ms

Below is generated by plot.py at 2018-05-24 21:28:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.337 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.376 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.233 ms

Loss rate: 0.82%

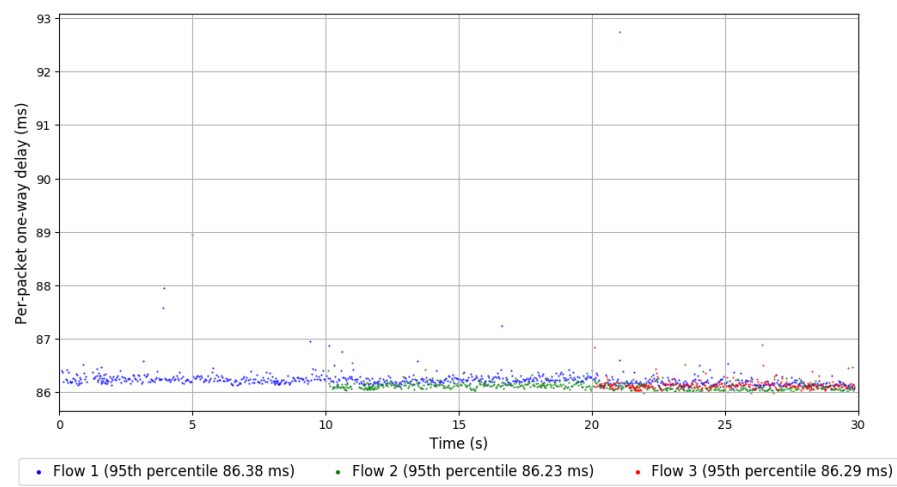
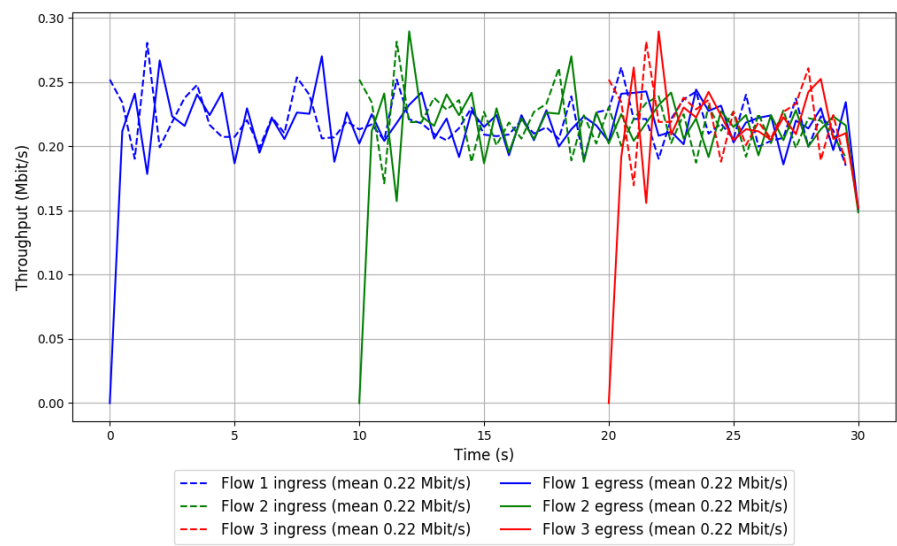
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.289 ms

Loss rate: 1.85%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-05-24 19:40:41

End at: 2018-05-24 19:41:11

Local clock offset: -0.06 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2018-05-24 21:28:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.366 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.278 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.430 ms

Loss rate: 0.82%

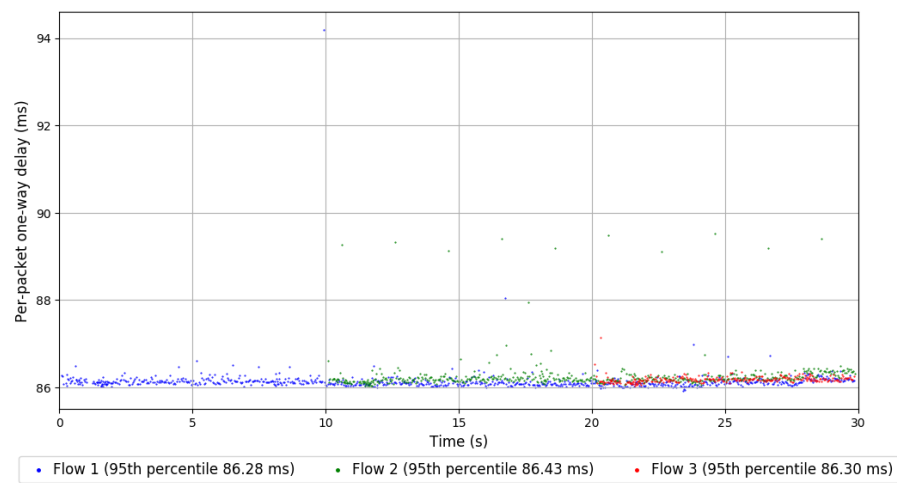
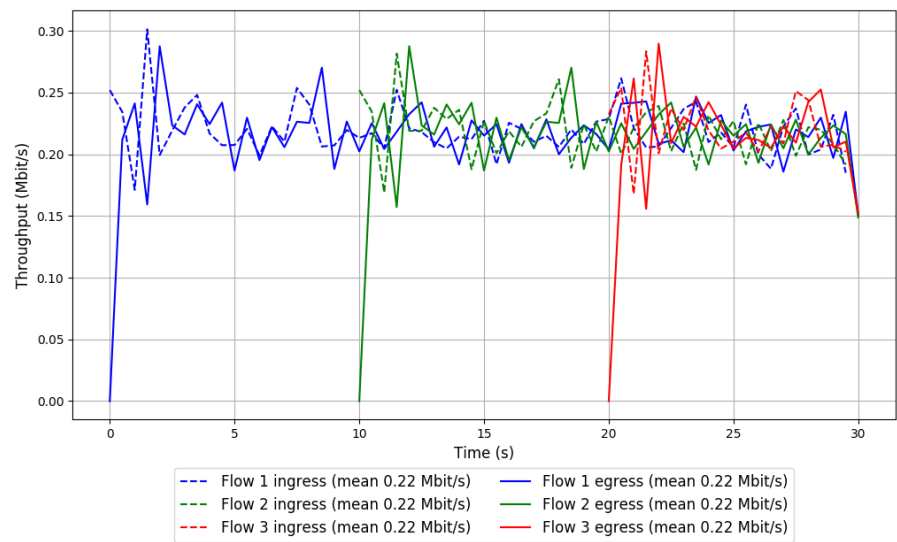
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.296 ms

Loss rate: 1.85%

Run 10: Report of SReAM — Data Link

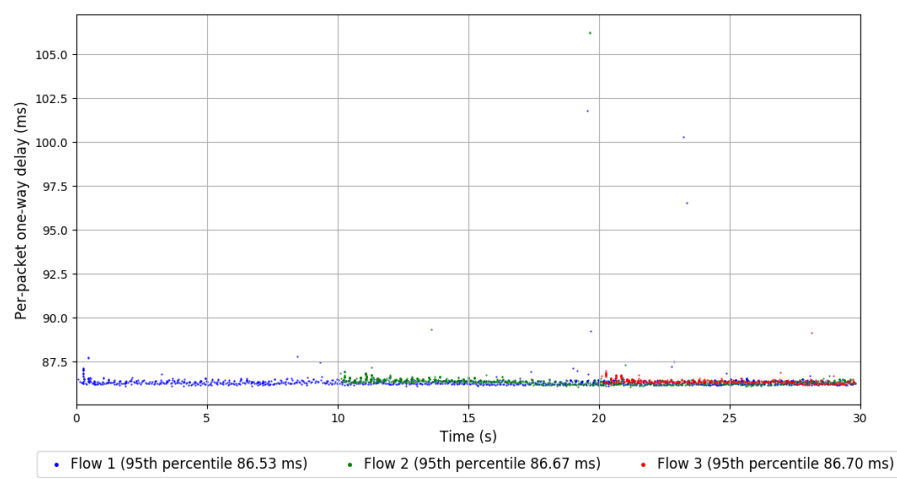
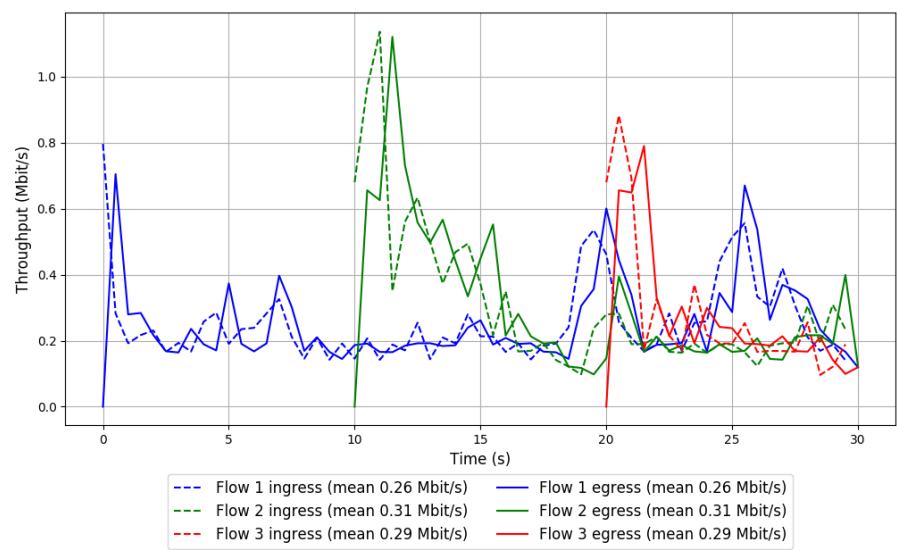


Run 1: Statistics of Sprout

Start at: 2018-05-24 16:22:32
End at: 2018-05-24 16:23:02
Local clock offset: 0.018 ms
Remote clock offset: -0.081 ms

Below is generated by plot.py at 2018-05-24 21:28:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 86.644 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 86.530 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 86.665 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 86.702 ms
Loss rate: 1.67%

Run 1: Report of Sprout — Data Link

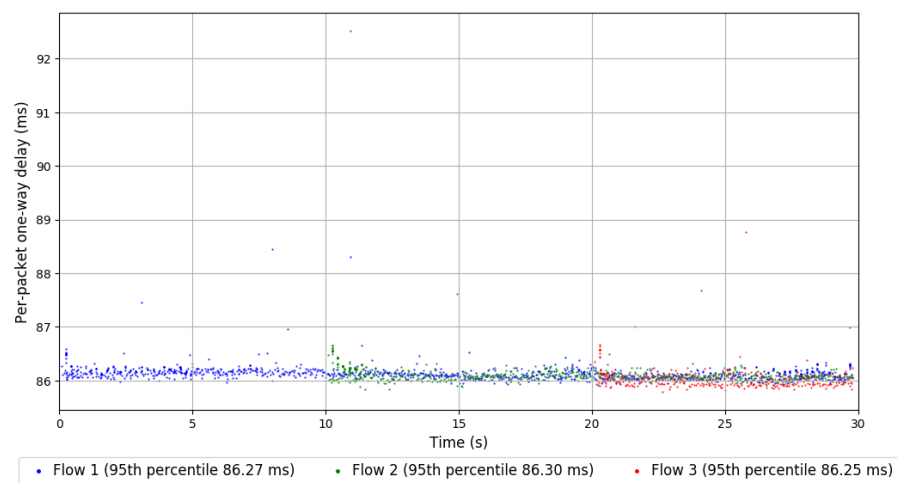
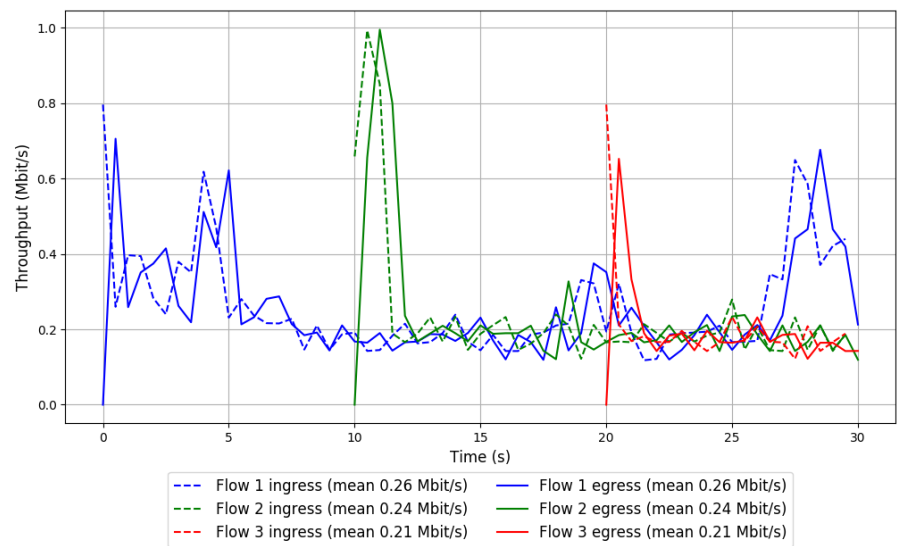


Run 2: Statistics of Sprout

Start at: 2018-05-24 16:46:14
End at: 2018-05-24 16:46:44
Local clock offset: -0.185 ms
Remote clock offset: -0.048 ms

Below is generated by plot.py at 2018-05-24 21:28:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 86.282 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 86.273 ms
Loss rate: 1.47%
-- Flow 2:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 86.301 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 86.248 ms
Loss rate: 2.30%

Run 2: Report of Sprout — Data Link

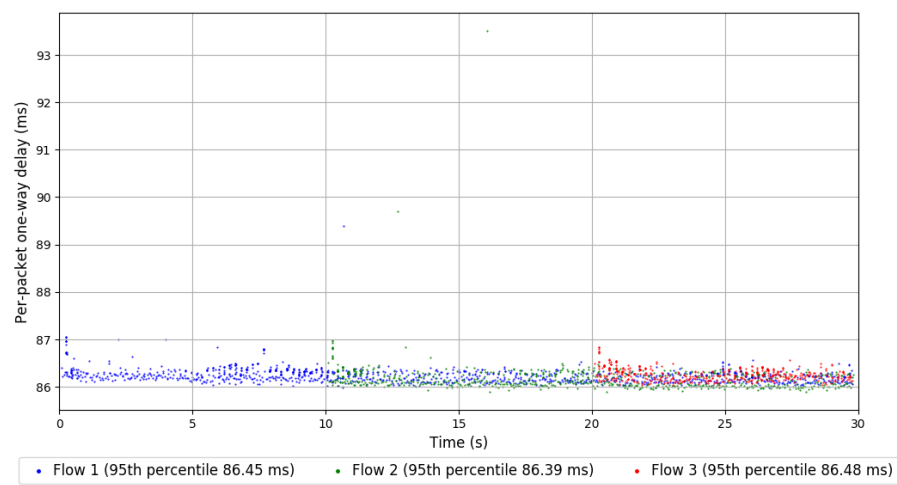
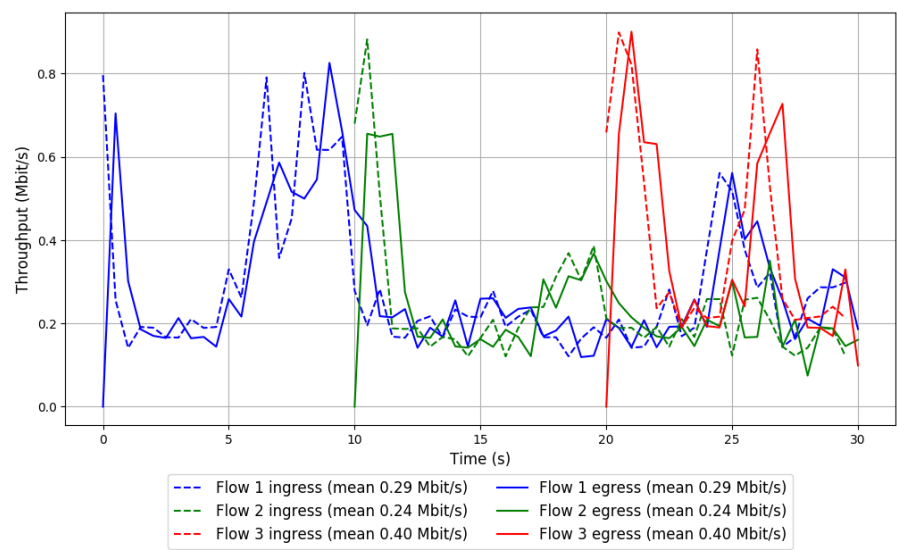


Run 3: Statistics of Sprout

Start at: 2018-05-24 17:10:15
End at: 2018-05-24 17:10:45
Local clock offset: 0.015 ms
Remote clock offset: -0.027 ms

```
# Below is generated by plot.py at 2018-05-24 21:28:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 86.451 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 86.453 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 86.395 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 86.482 ms
Loss rate: 1.48%
```

Run 3: Report of Sprout — Data Link

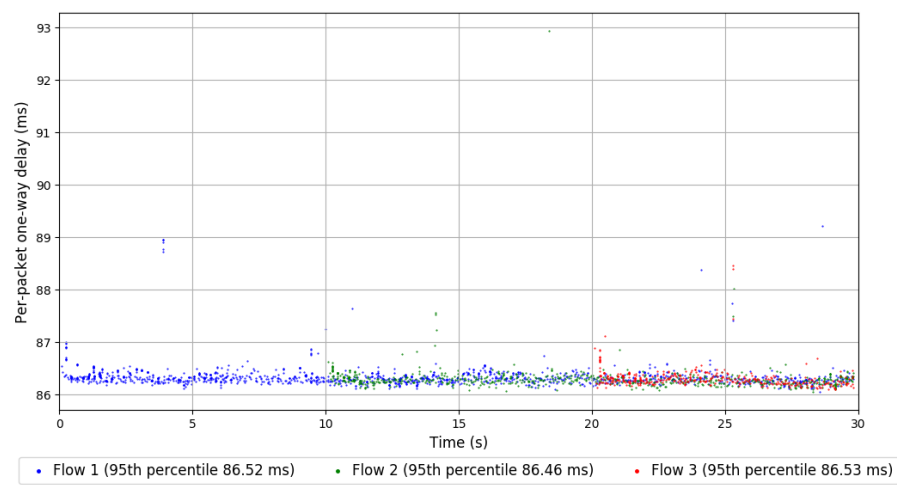
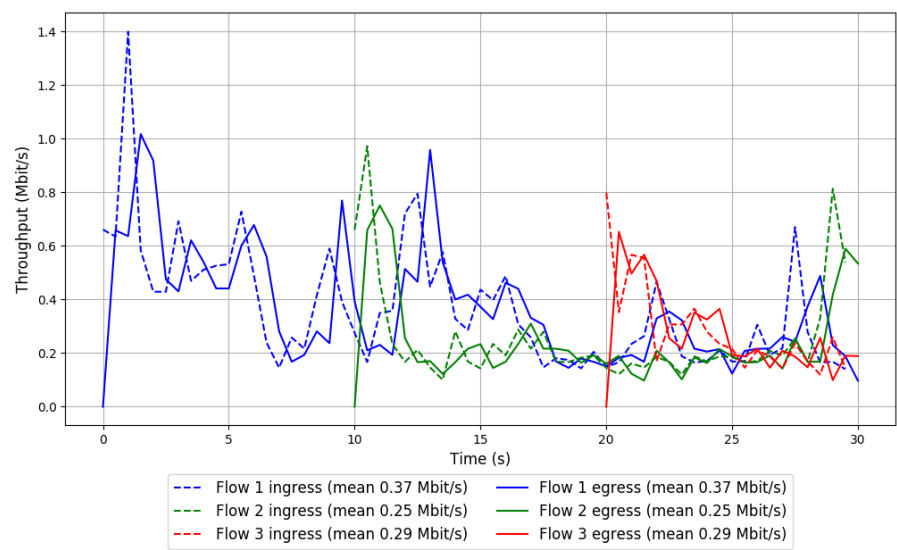


Run 4: Statistics of Sprout

Start at: 2018-05-24 17:34:04
End at: 2018-05-24 17:34:34
Local clock offset: -0.046 ms
Remote clock offset: 0.024 ms

```
# Below is generated by plot.py at 2018-05-24 21:28:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 86.506 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 86.517 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 86.459 ms
Loss rate: 2.28%
-- Flow 3:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 86.528 ms
Loss rate: 0.82%
```

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-05-24 17:57:10

End at: 2018-05-24 17:57:40

Local clock offset: 0.108 ms

Remote clock offset: 0.166 ms

Below is generated by plot.py at 2018-05-24 21:28:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 86.664 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 86.630 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 86.707 ms

Loss rate: 0.73%

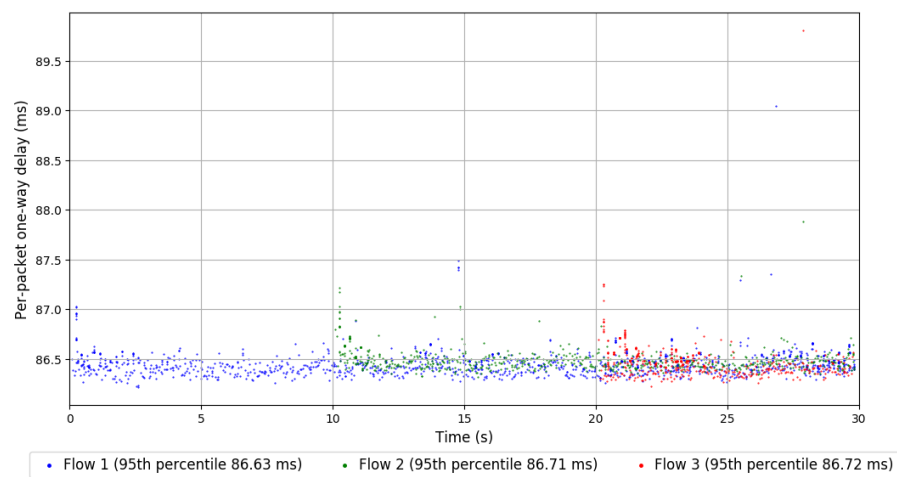
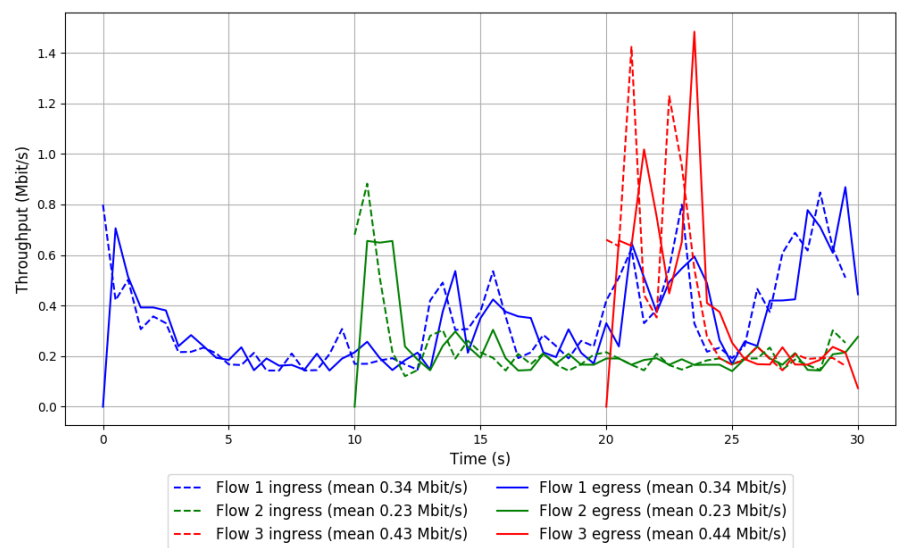
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.715 ms

Loss rate: 1.07%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-05-24 18:21:08

End at: 2018-05-24 18:21:38

Local clock offset: 0.072 ms

Remote clock offset: 0.366 ms

Below is generated by plot.py at 2018-05-24 21:28:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 86.600 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 86.600 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 86.581 ms

Loss rate: 0.76%

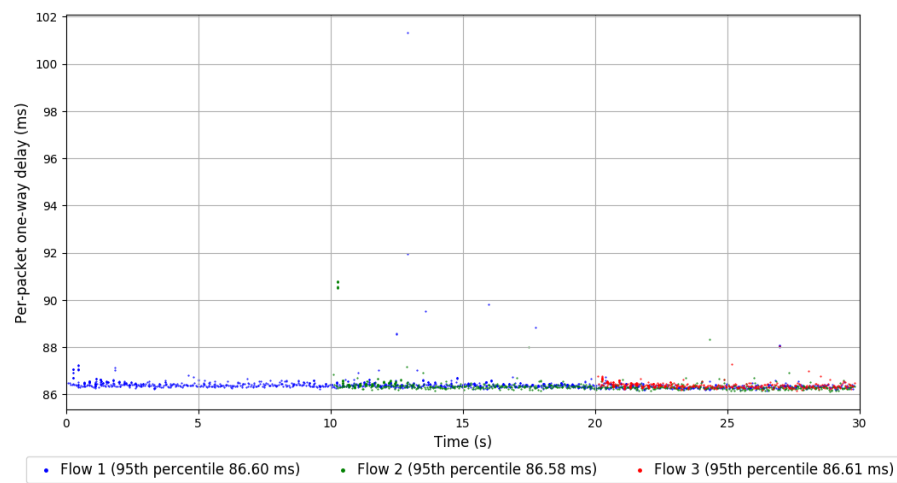
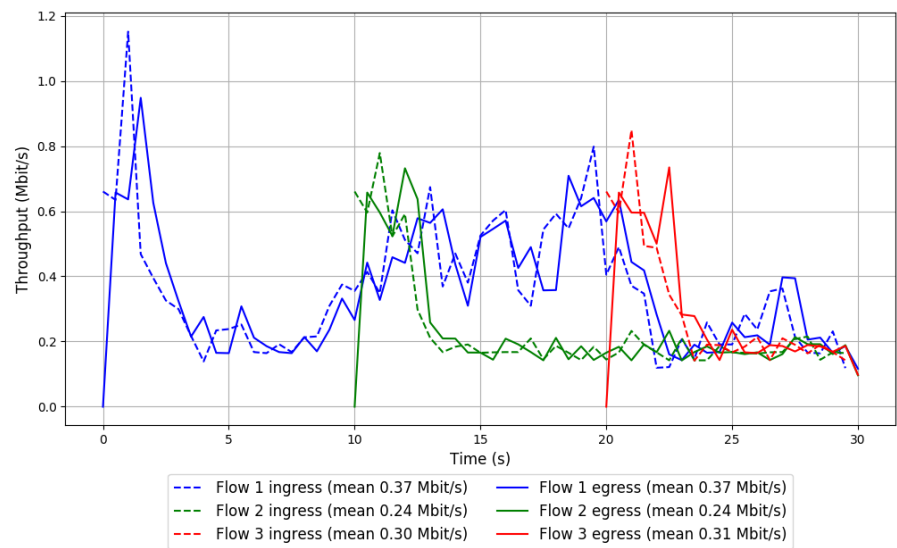
-- Flow 3:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 86.613 ms

Loss rate: 1.16%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-05-24 18:44:06

End at: 2018-05-24 18:44:36

Local clock offset: 0.437 ms

Remote clock offset: 0.435 ms

Below is generated by plot.py at 2018-05-24 21:28:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 86.792 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 86.800 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 86.731 ms

Loss rate: 1.17%

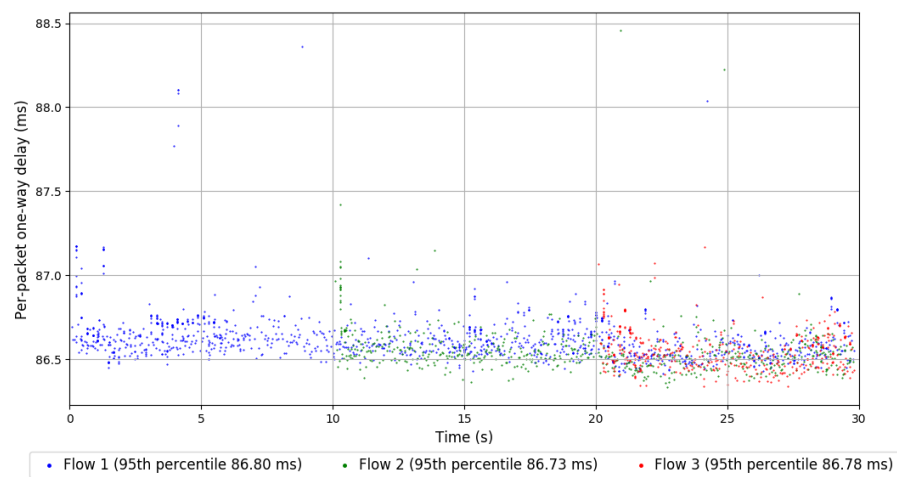
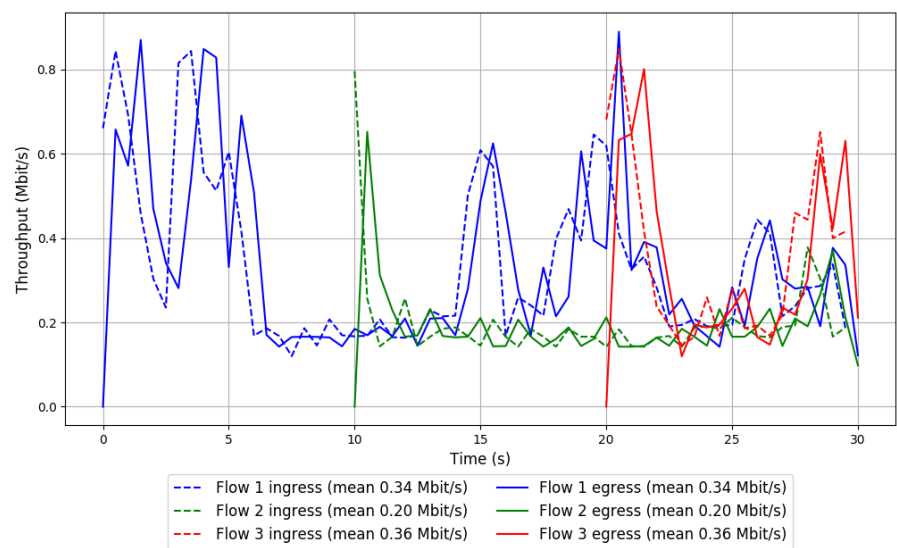
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 86.782 ms

Loss rate: 2.87%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-05-24 19:07:57

End at: 2018-05-24 19:08:27

Local clock offset: 0.346 ms

Remote clock offset: 0.515 ms

Below is generated by plot.py at 2018-05-24 21:28:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 86.794 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 86.792 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 86.777 ms

Loss rate: 0.76%

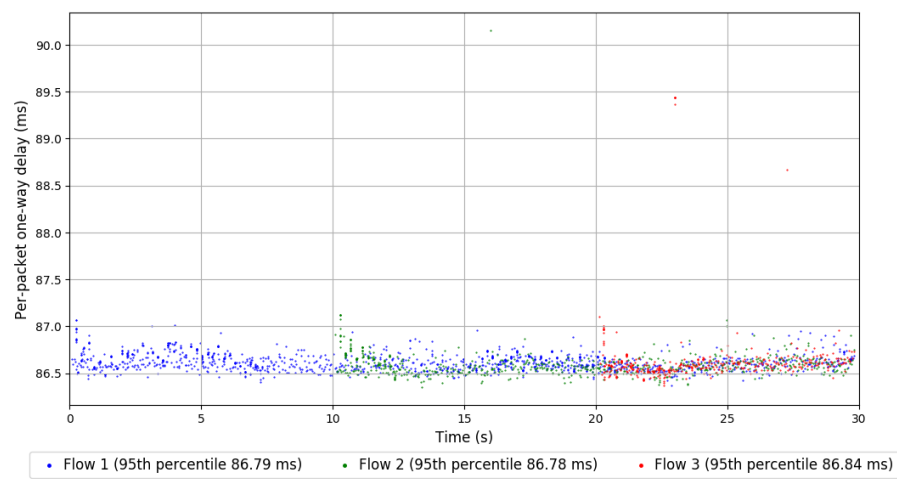
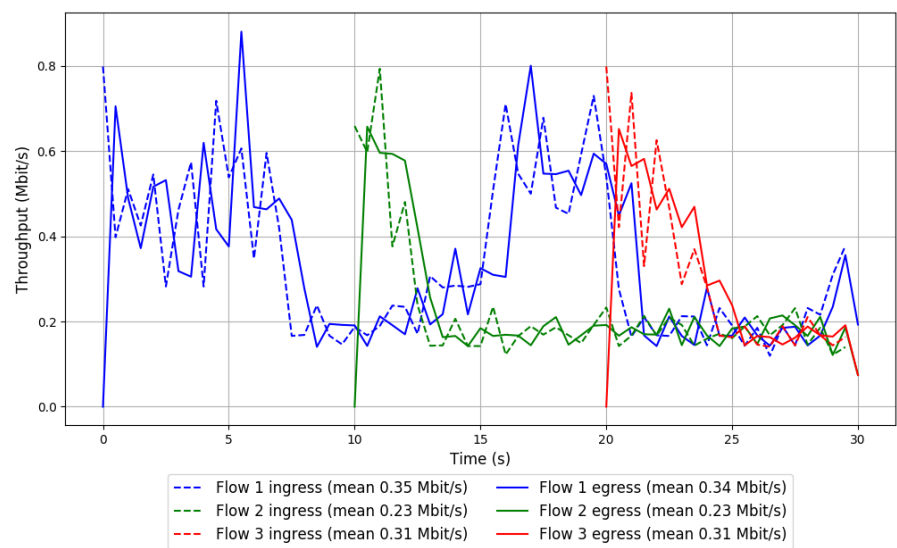
-- Flow 3:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 86.843 ms

Loss rate: 1.48%

Run 8: Report of Sprout — Data Link

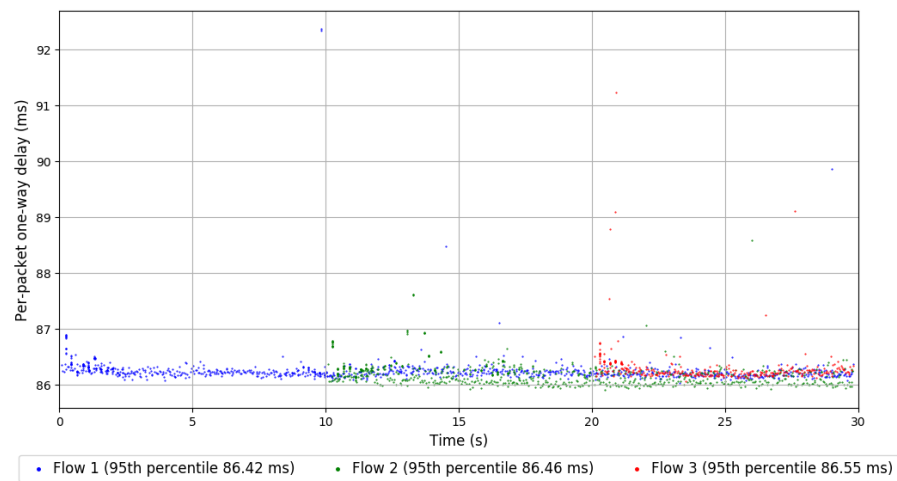
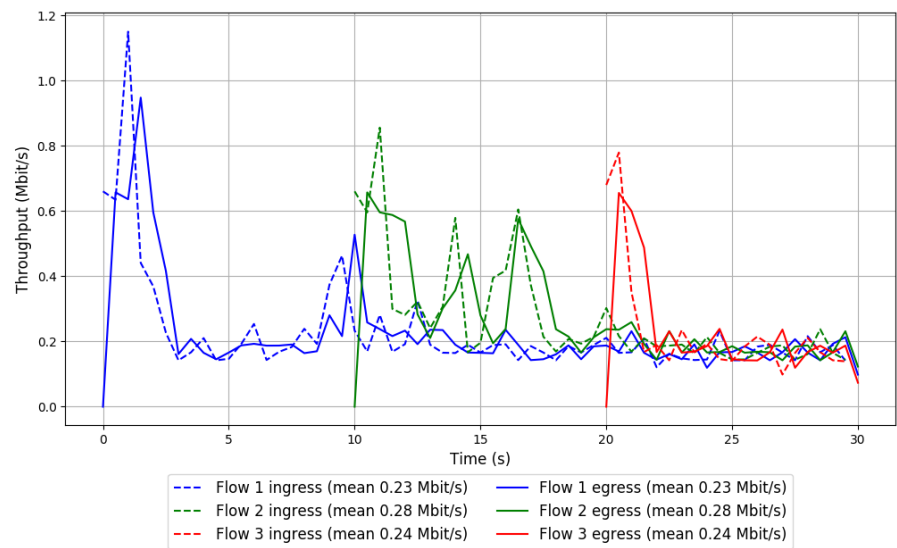


Run 9: Statistics of Sprout

Start at: 2018-05-24 19:31:17
End at: 2018-05-24 19:31:47
Local clock offset: -0.033 ms
Remote clock offset: 0.334 ms

Below is generated by plot.py at 2018-05-24 21:28:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 86.465 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 86.417 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 86.460 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 86.551 ms
Loss rate: 1.46%

Run 9: Report of Sprout — Data Link

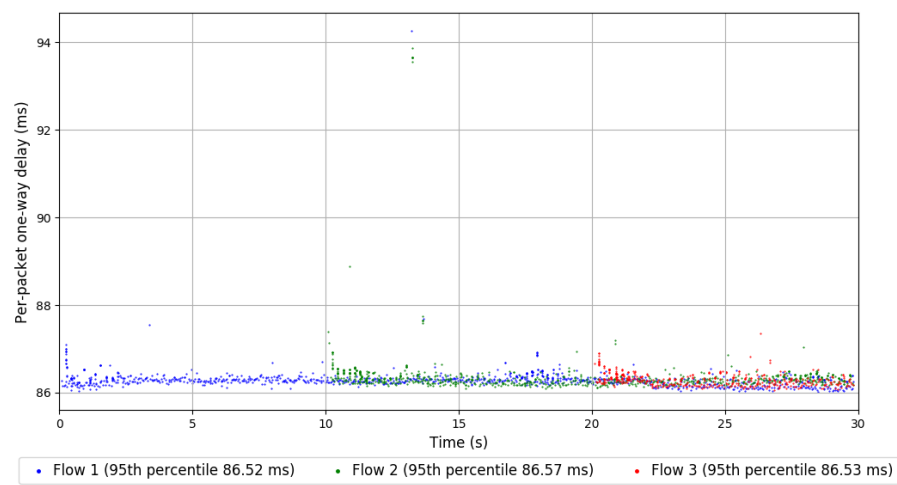
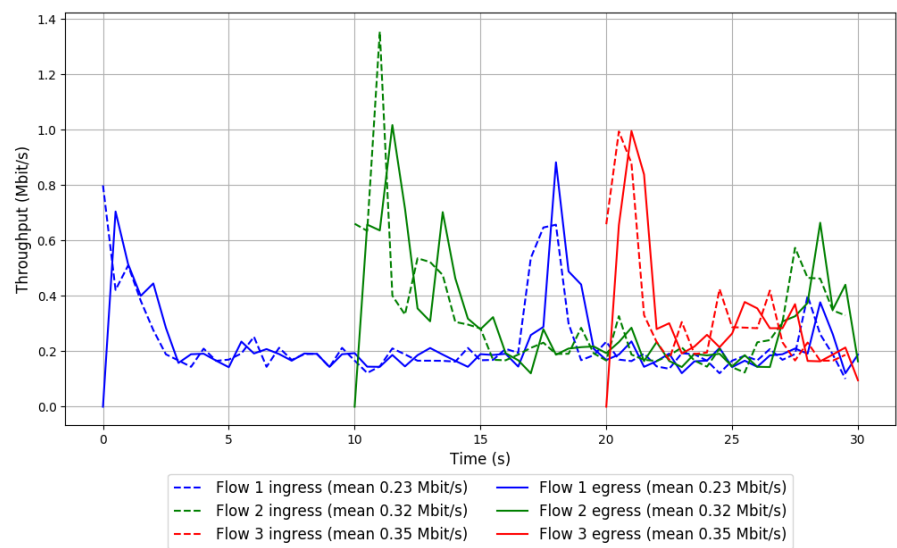


Run 10: Statistics of Sprout

Start at: 2018-05-24 19:54:17
End at: 2018-05-24 19:54:47
Local clock offset: 0.001 ms
Remote clock offset: -0.177 ms

Below is generated by plot.py at 2018-05-24 21:28:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 86.539 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 86.515 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 86.567 ms
Loss rate: 1.48%
-- Flow 3:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 86.528 ms
Loss rate: 1.37%

Run 10: Report of Sprout — Data Link

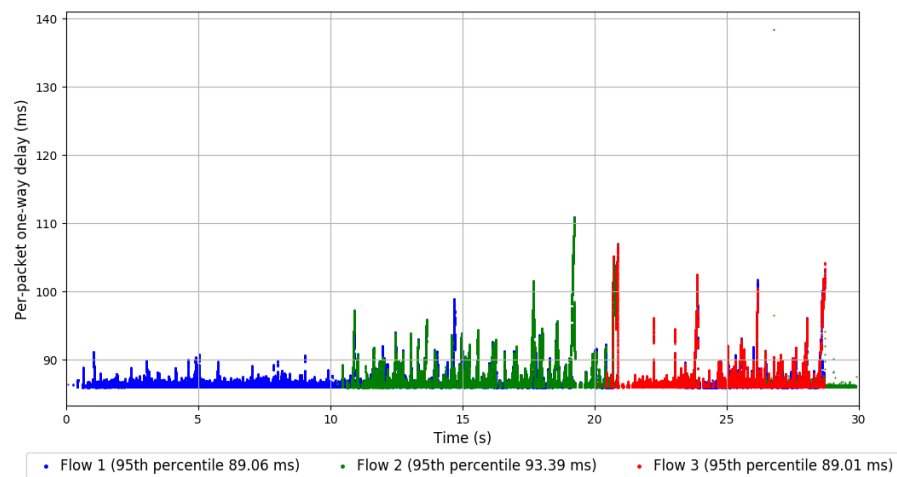
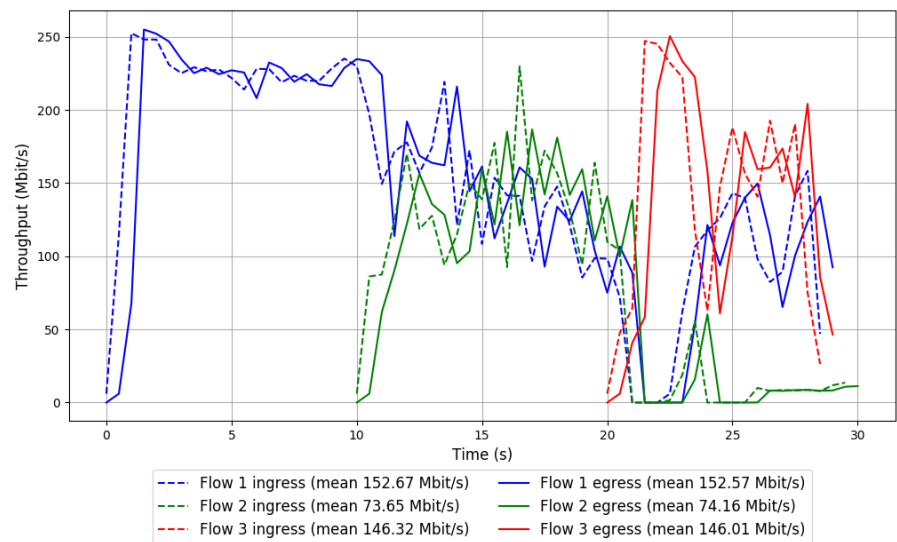


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-05-24 16:02:07
End at: 2018-05-24 16:02:37
Local clock offset: -0.432 ms
Remote clock offset: -0.105 ms

# Below is generated by plot.py at 2018-05-24 21:31:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 237.89 Mbit/s
95th percentile per-packet one-way delay: 89.932 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 152.57 Mbit/s
95th percentile per-packet one-way delay: 89.056 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 74.16 Mbit/s
95th percentile per-packet one-way delay: 93.385 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 146.01 Mbit/s
95th percentile per-packet one-way delay: 89.013 ms
Loss rate: 0.01%
```

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

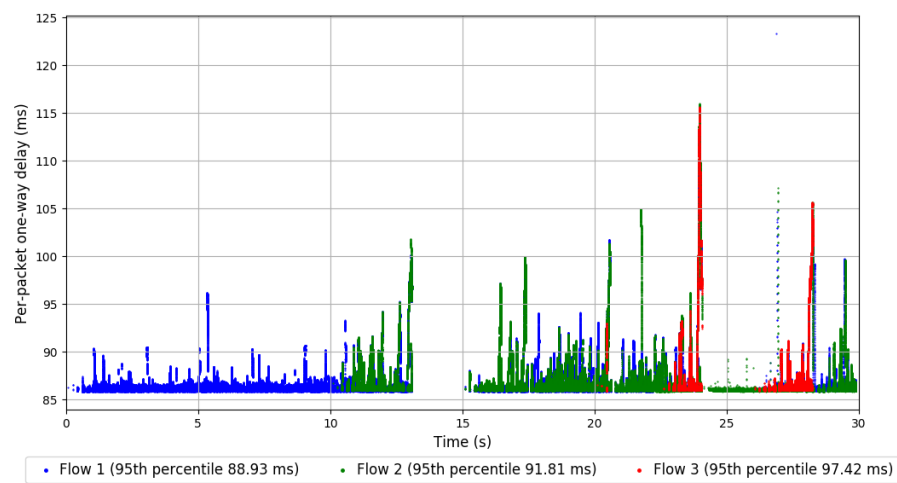
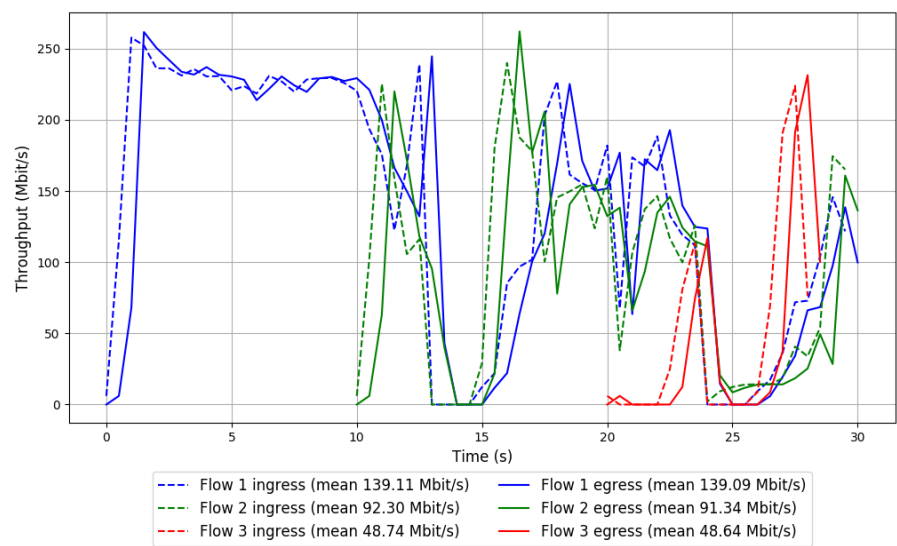


Run 2: Statistics of TaoVA-100x

Start at: 2018-05-24 16:25:27
End at: 2018-05-24 16:25:57
Local clock offset: -0.212 ms
Remote clock offset: -0.087 ms

Below is generated by plot.py at 2018-05-24 21:31:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 213.07 Mbit/s
95th percentile per-packet one-way delay: 89.896 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 139.09 Mbit/s
95th percentile per-packet one-way delay: 88.926 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 91.34 Mbit/s
95th percentile per-packet one-way delay: 91.807 ms
Loss rate: 1.91%
-- Flow 3:
Average throughput: 48.64 Mbit/s
95th percentile per-packet one-way delay: 97.422 ms
Loss rate: 0.00%

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

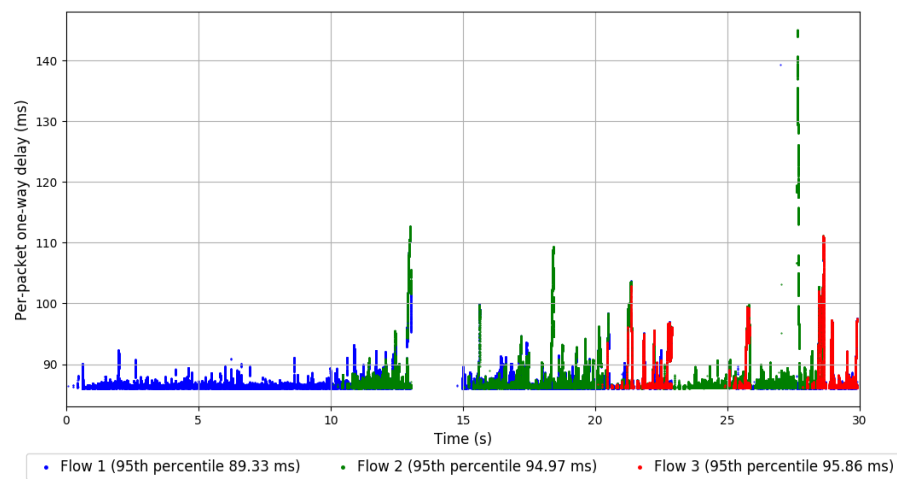
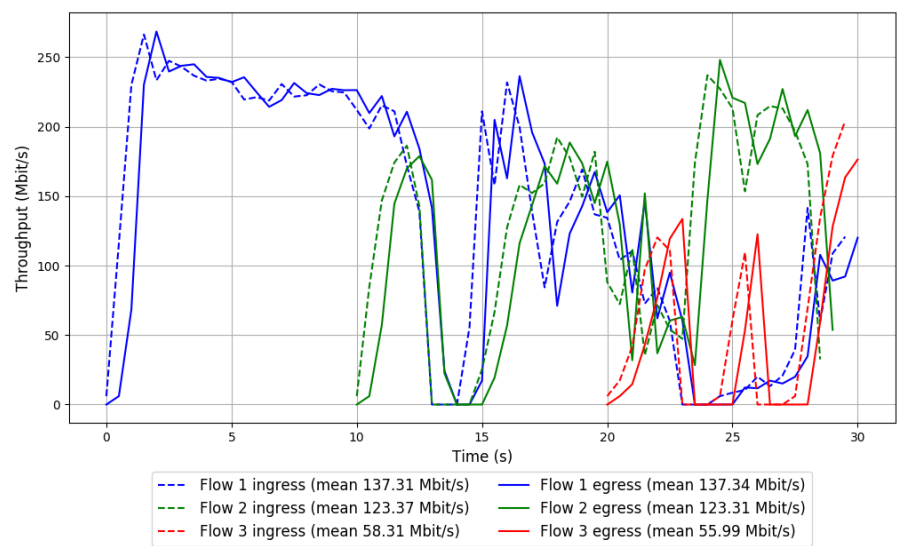


Run 3: Statistics of TaoVA-100x

Start at: 2018-05-24 16:49:09
End at: 2018-05-24 16:49:39
Local clock offset: 0.044 ms
Remote clock offset: -0.054 ms

Below is generated by plot.py at 2018-05-24 21:31:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 233.81 Mbit/s
95th percentile per-packet one-way delay: 91.580 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 137.34 Mbit/s
95th percentile per-packet one-way delay: 89.330 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 123.31 Mbit/s
95th percentile per-packet one-way delay: 94.969 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 55.99 Mbit/s
95th percentile per-packet one-way delay: 95.859 ms
Loss rate: 5.64%

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

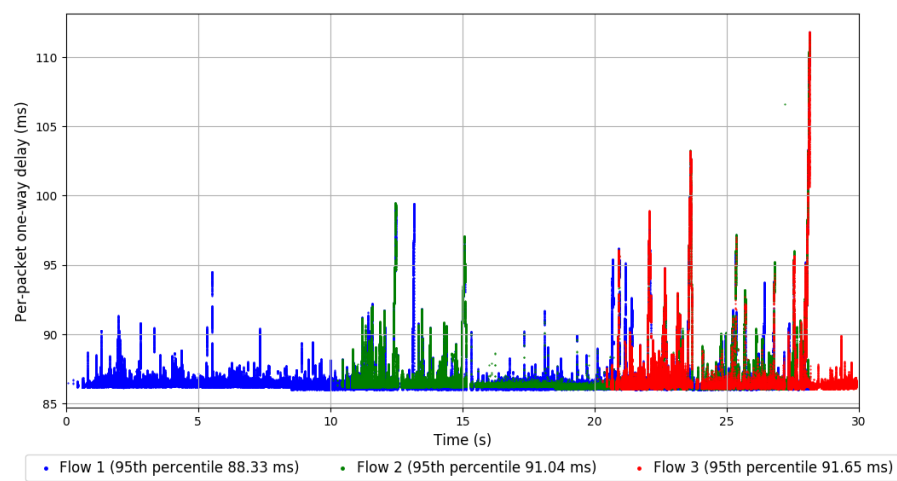
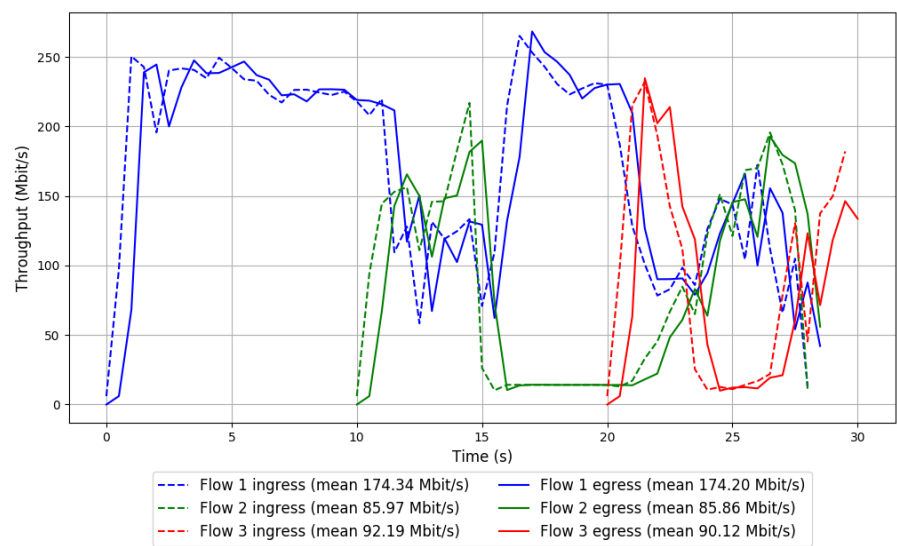


Run 4: Statistics of TaoVA-100x

Start at: 2018-05-24 17:13:11
End at: 2018-05-24 17:13:41
Local clock offset: 0.127 ms
Remote clock offset: -0.034 ms

Below is generated by plot.py at 2018-05-24 21:33:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 245.47 Mbit/s
95th percentile per-packet one-way delay: 89.411 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 174.20 Mbit/s
95th percentile per-packet one-way delay: 88.328 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 85.86 Mbit/s
95th percentile per-packet one-way delay: 91.040 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 90.12 Mbit/s
95th percentile per-packet one-way delay: 91.648 ms
Loss rate: 3.95%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-05-24 17:36:55

End at: 2018-05-24 17:37:25

Local clock offset: 0.082 ms

Remote clock offset: 0.012 ms

Below is generated by plot.py at 2018-05-24 21:33:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 249.89 Mbit/s

95th percentile per-packet one-way delay: 89.988 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 137.43 Mbit/s

95th percentile per-packet one-way delay: 89.533 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 146.72 Mbit/s

95th percentile per-packet one-way delay: 90.192 ms

Loss rate: 0.00%

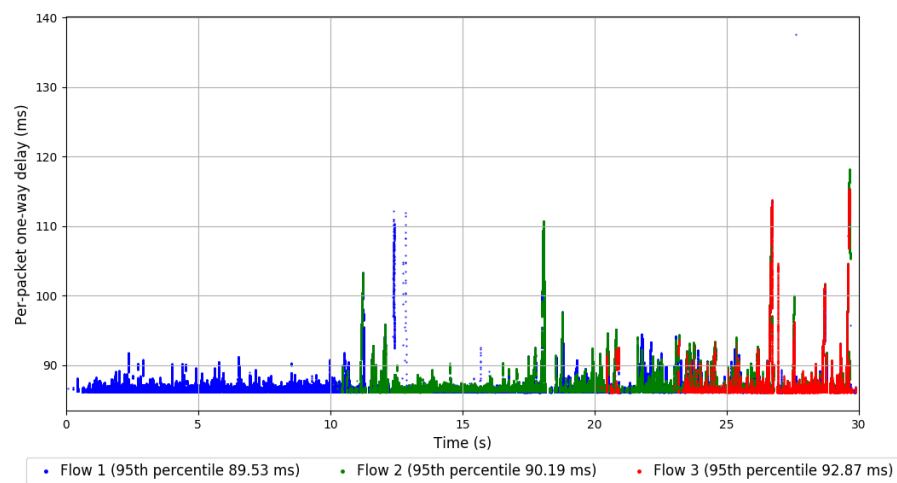
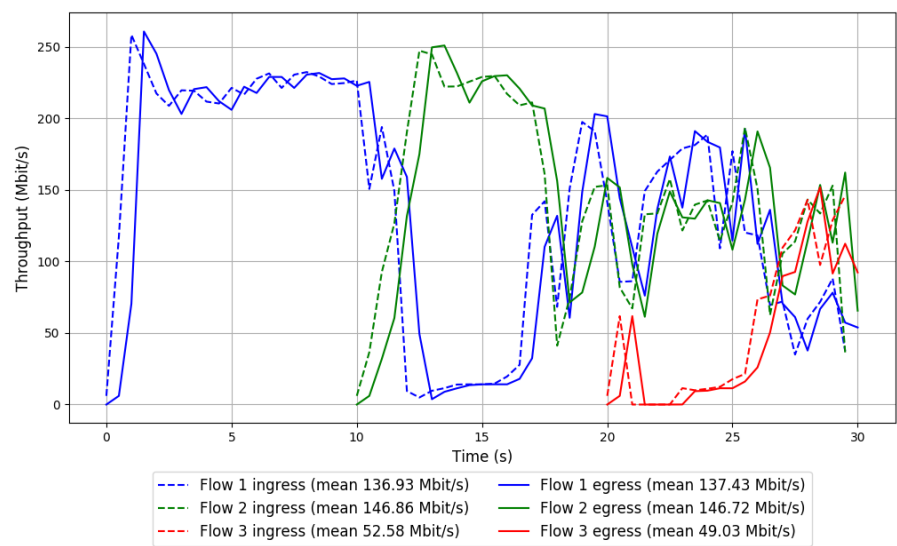
-- Flow 3:

Average throughput: 49.03 Mbit/s

95th percentile per-packet one-way delay: 92.869 ms

Loss rate: 8.38%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-05-24 18:00:04

End at: 2018-05-24 18:00:34

Local clock offset: 0.083 ms

Remote clock offset: 0.168 ms

Below is generated by plot.py at 2018-05-24 21:33:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 220.42 Mbit/s

95th percentile per-packet one-way delay: 90.814 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 145.93 Mbit/s

95th percentile per-packet one-way delay: 89.152 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 73.94 Mbit/s

95th percentile per-packet one-way delay: 93.961 ms

Loss rate: 3.01%

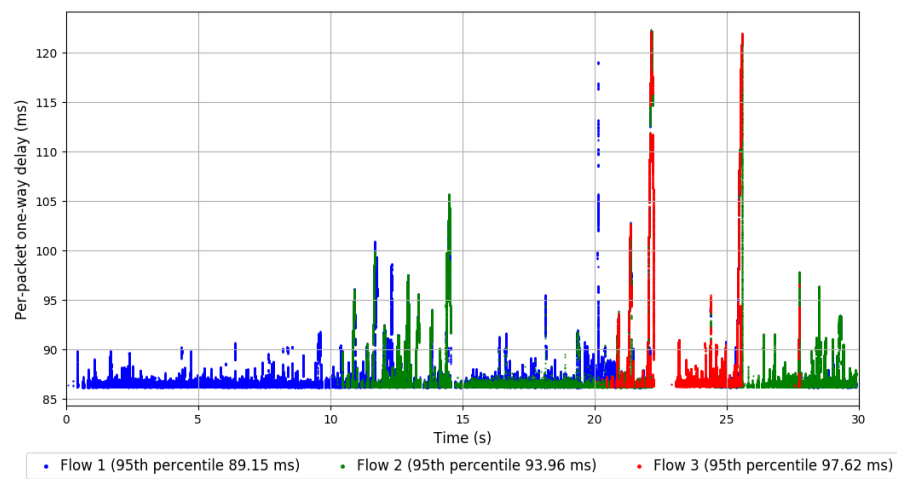
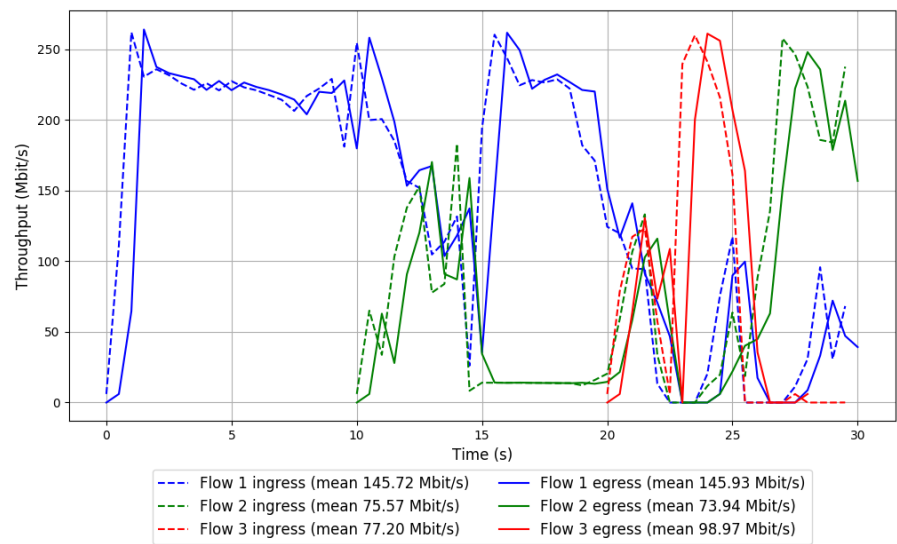
-- Flow 3:

Average throughput: 98.97 Mbit/s

95th percentile per-packet one-way delay: 97.625 ms

Loss rate: 0.01%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-05-24 18:23:59

End at: 2018-05-24 18:24:29

Local clock offset: -0.241 ms

Remote clock offset: 0.329 ms

Below is generated by plot.py at 2018-05-24 21:34:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 202.93 Mbit/s

95th percentile per-packet one-way delay: 90.095 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 144.87 Mbit/s

95th percentile per-packet one-way delay: 87.490 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 50.63 Mbit/s

95th percentile per-packet one-way delay: 93.713 ms

Loss rate: 0.01%

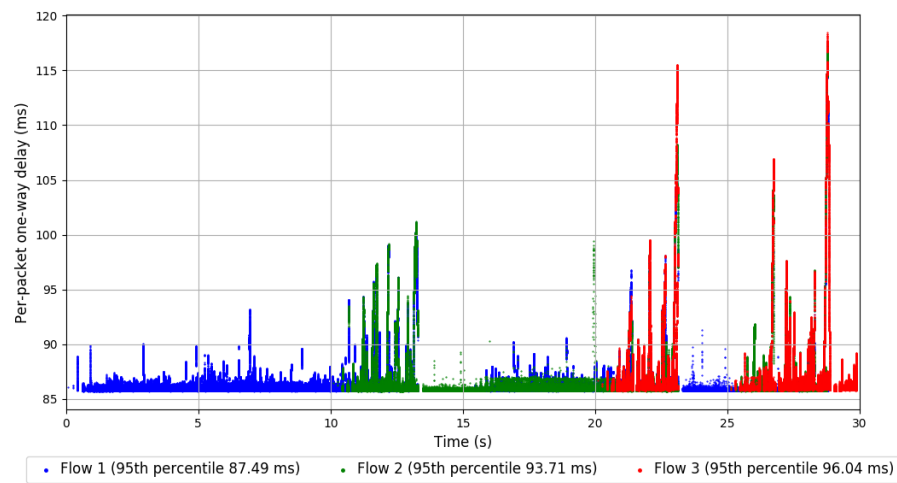
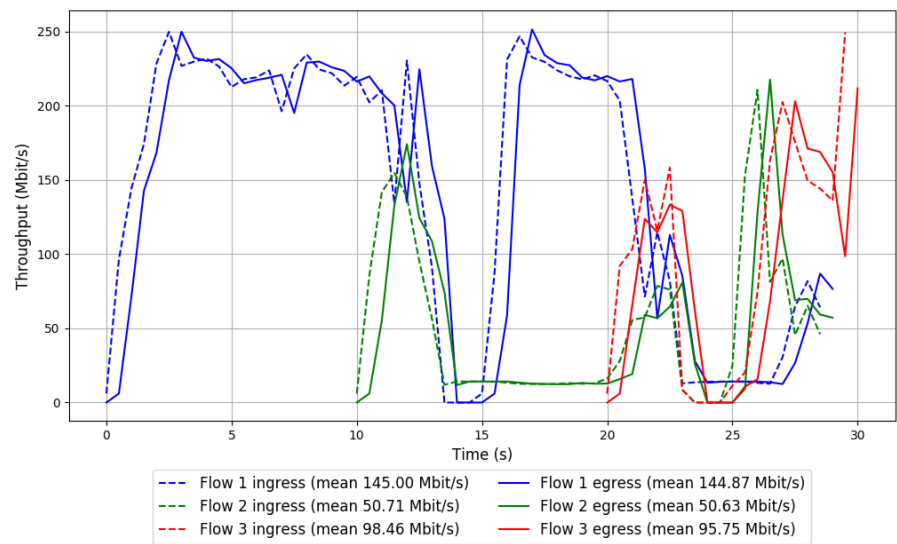
-- Flow 3:

Average throughput: 95.75 Mbit/s

95th percentile per-packet one-way delay: 96.040 ms

Loss rate: 4.45%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-05-24 18:46:55

End at: 2018-05-24 18:47:25

Local clock offset: -0.043 ms

Remote clock offset: 0.394 ms

Below is generated by plot.py at 2018-05-24 21:38:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 249.86 Mbit/s

95th percentile per-packet one-way delay: 89.120 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 206.15 Mbit/s

95th percentile per-packet one-way delay: 87.598 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 174.01 Mbit/s

95th percentile per-packet one-way delay: 90.080 ms

Loss rate: 0.41%

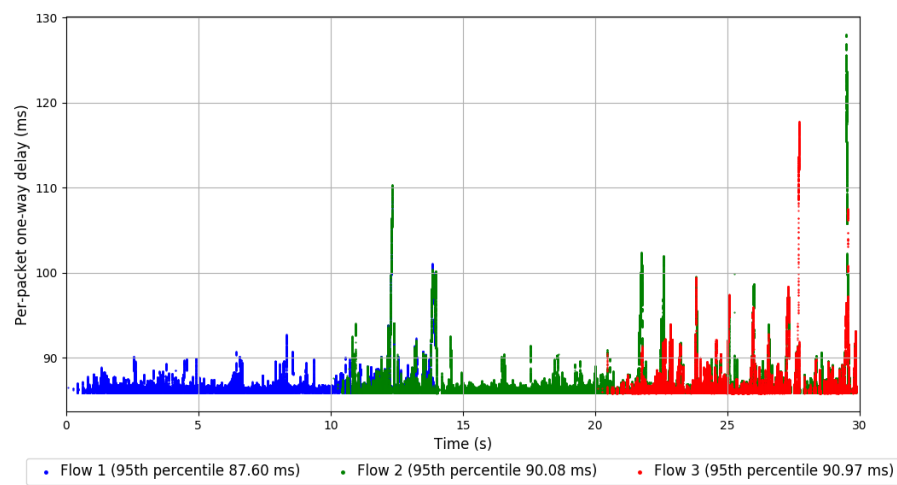
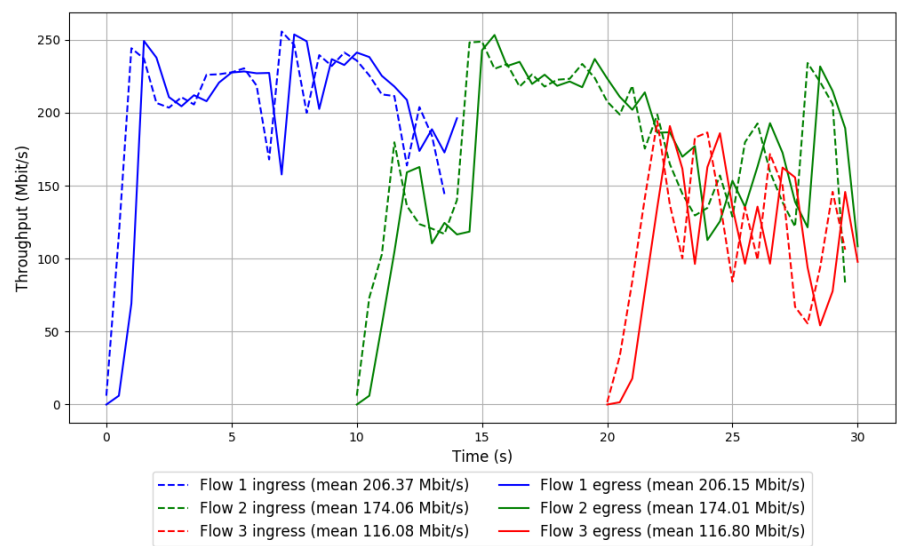
-- Flow 3:

Average throughput: 116.80 Mbit/s

95th percentile per-packet one-way delay: 90.965 ms

Loss rate: 1.22%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-05-24 19:10:47

End at: 2018-05-24 19:11:17

Local clock offset: 0.479 ms

Remote clock offset: 0.505 ms

Below is generated by plot.py at 2018-05-24 21:39:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 234.64 Mbit/s

95th percentile per-packet one-way delay: 92.451 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 147.13 Mbit/s

95th percentile per-packet one-way delay: 90.099 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 96.24 Mbit/s

95th percentile per-packet one-way delay: 95.505 ms

Loss rate: 1.08%

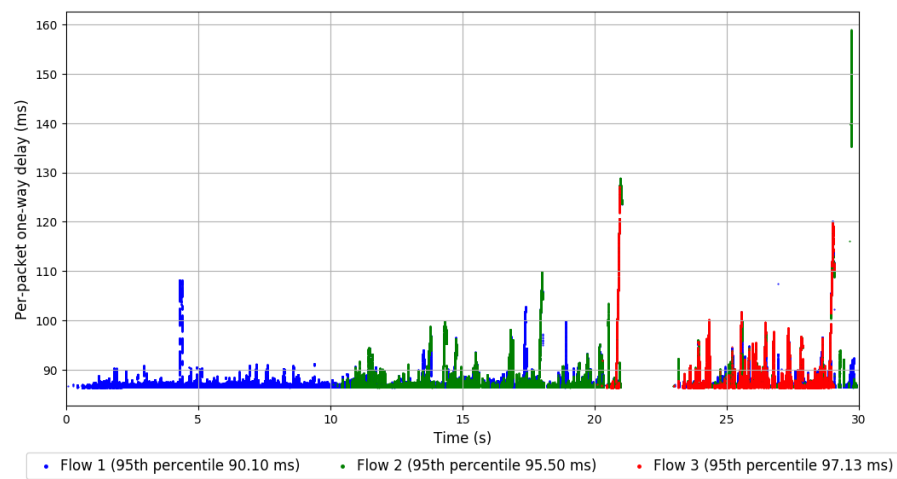
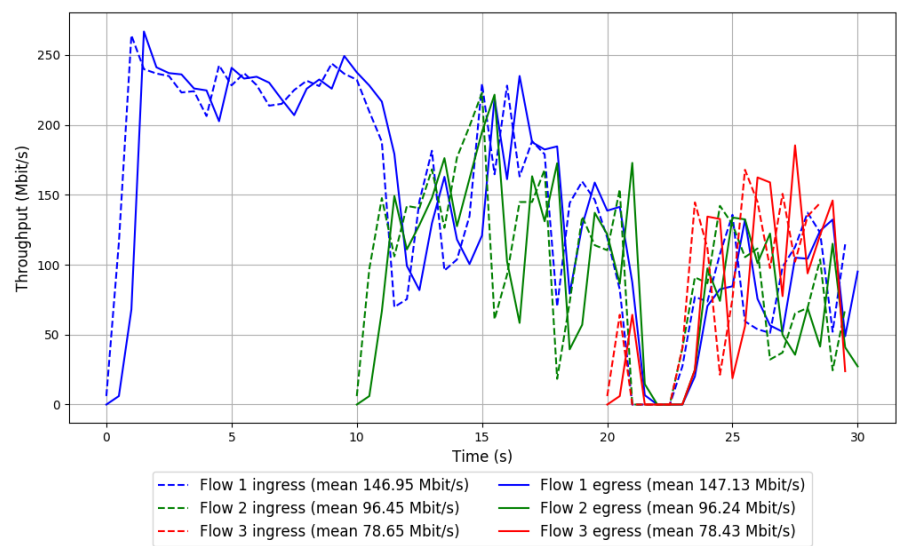
-- Flow 3:

Average throughput: 78.43 Mbit/s

95th percentile per-packet one-way delay: 97.127 ms

Loss rate: 0.01%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-05-24 19:34:11

End at: 2018-05-24 19:34:41

Local clock offset: -0.382 ms

Remote clock offset: 0.218 ms

Below is generated by plot.py at 2018-05-24 21:39:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 210.81 Mbit/s

95th percentile per-packet one-way delay: 88.087 ms

Loss rate: 1.00%

-- Flow 1:

Average throughput: 131.73 Mbit/s

95th percentile per-packet one-way delay: 87.077 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.21 Mbit/s

95th percentile per-packet one-way delay: 93.473 ms

Loss rate: 2.27%

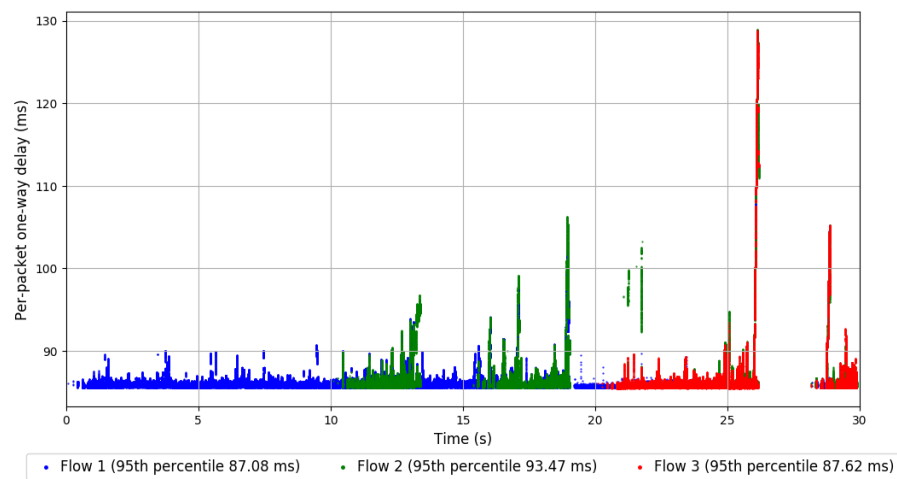
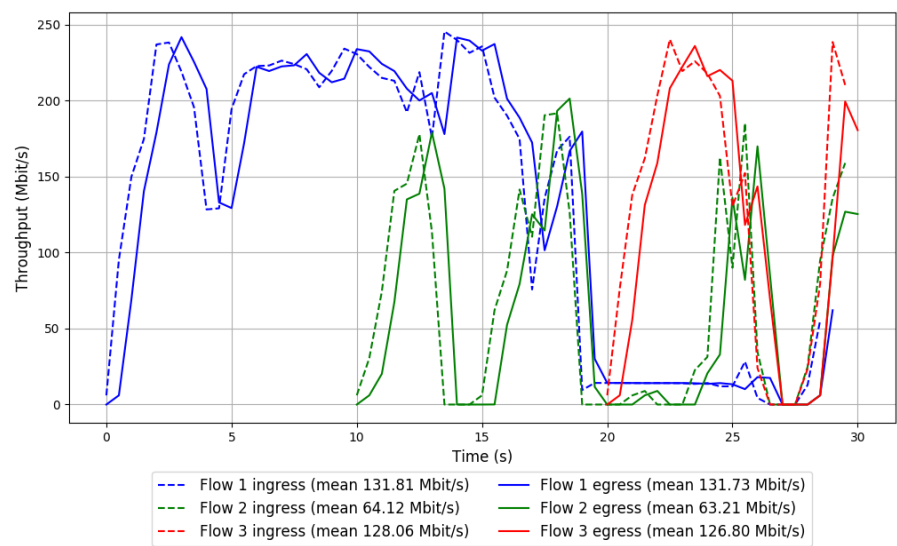
-- Flow 3:

Average throughput: 126.80 Mbit/s

95th percentile per-packet one-way delay: 87.619 ms

Loss rate: 2.70%

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

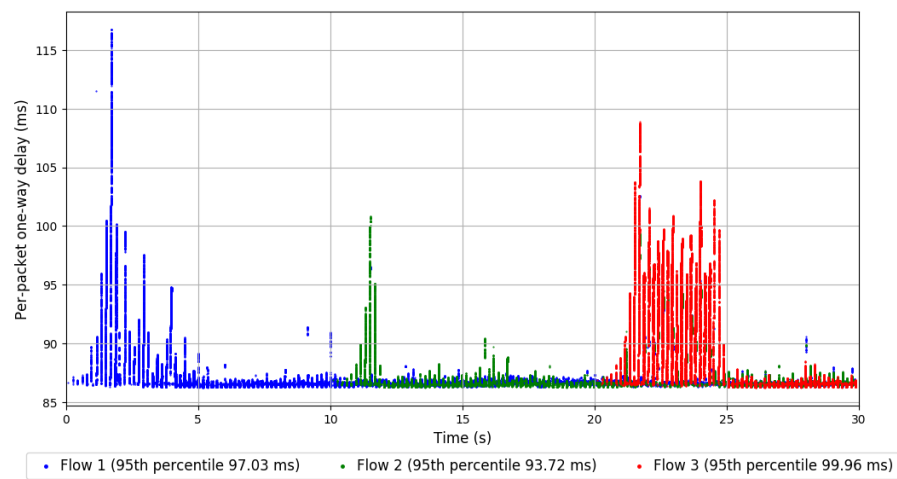
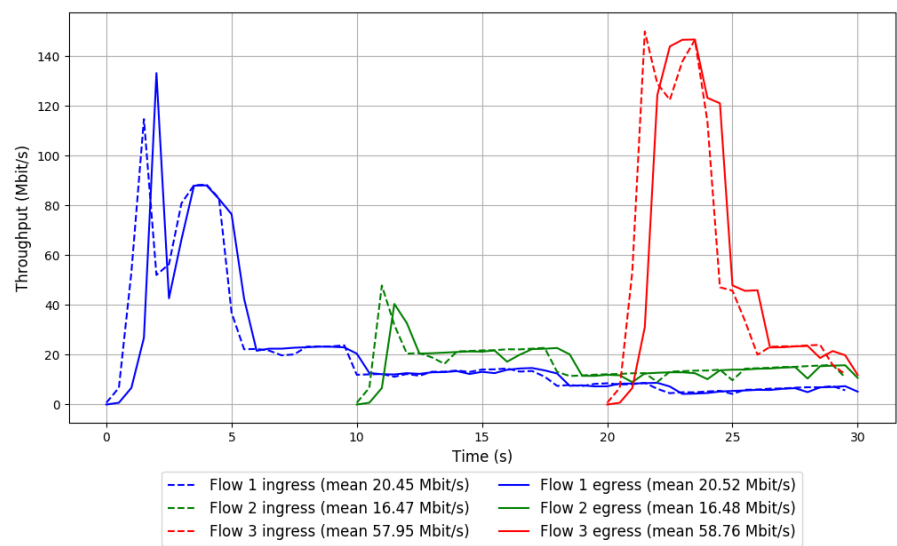


Run 1: Statistics of TCP Vegas

Start at: 2018-05-24 16:06:10
End at: 2018-05-24 16:06:40
Local clock offset: -0.019 ms
Remote clock offset: -0.124 ms

Below is generated by plot.py at 2018-05-24 21:39:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 50.73 Mbit/s
95th percentile per-packet one-way delay: 98.470 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 20.52 Mbit/s
95th percentile per-packet one-way delay: 97.034 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 16.48 Mbit/s
95th percentile per-packet one-way delay: 93.722 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 58.76 Mbit/s
95th percentile per-packet one-way delay: 99.963 ms
Loss rate: 0.36%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-05-24 16:29:40

End at: 2018-05-24 16:30:10

Local clock offset: 0.046 ms

Remote clock offset: -0.07 ms

Below is generated by plot.py at 2018-05-24 21:39:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 193.53 Mbit/s

95th percentile per-packet one-way delay: 98.671 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 118.32 Mbit/s

95th percentile per-packet one-way delay: 97.518 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 112.17 Mbit/s

95th percentile per-packet one-way delay: 100.785 ms

Loss rate: 0.88%

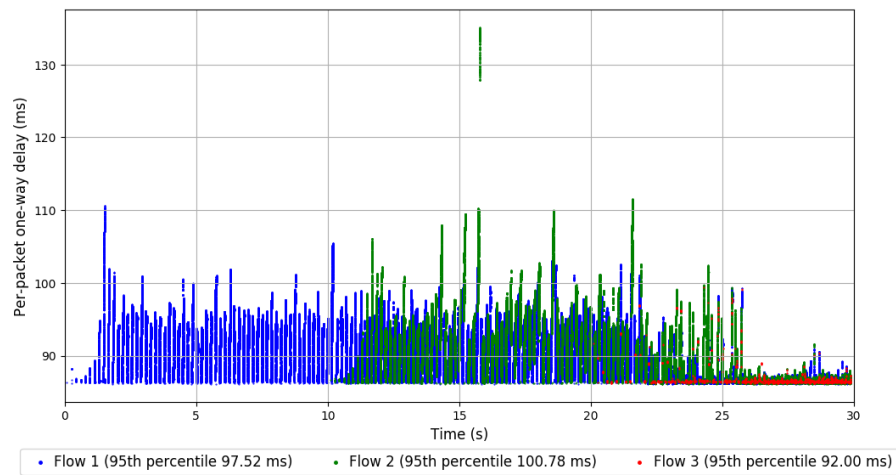
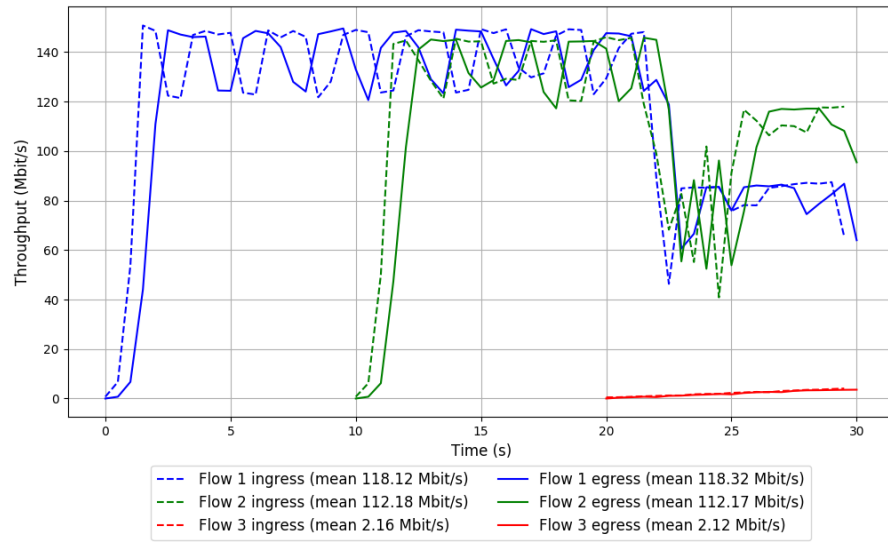
-- Flow 3:

Average throughput: 2.12 Mbit/s

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

Loss rate: 3.57%

Run 2: Report of TCP Vegas — Data Link

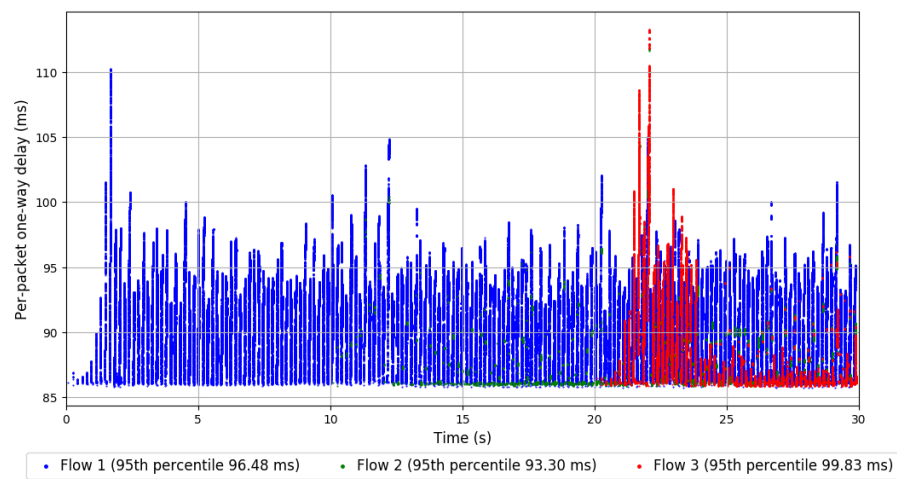
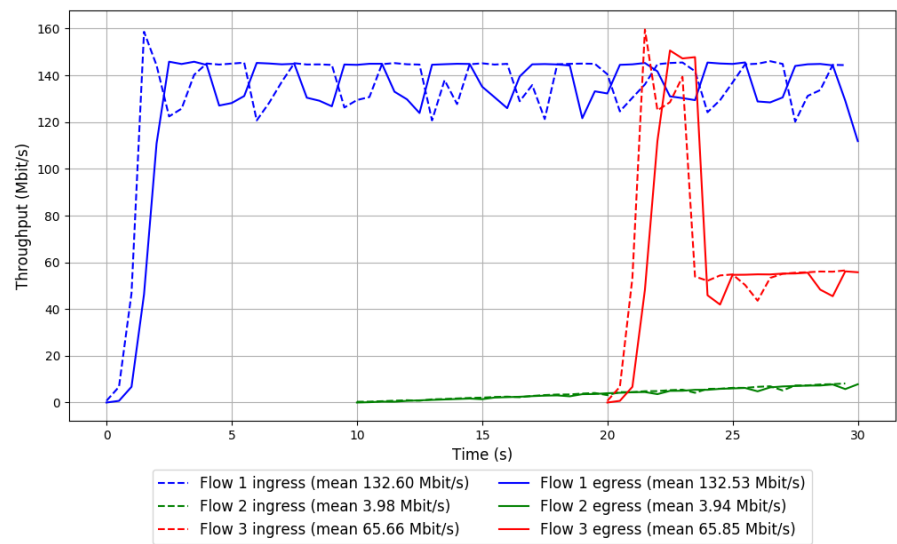


Run 3: Statistics of TCP Vegas

Start at: 2018-05-24 16:53:27
End at: 2018-05-24 16:53:57
Local clock offset: -0.24 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-05-24 21:39:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 156.69 Mbit/s
95th percentile per-packet one-way delay: 96.625 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 132.53 Mbit/s
95th percentile per-packet one-way delay: 96.483 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 3.94 Mbit/s
95th percentile per-packet one-way delay: 93.303 ms
Loss rate: 1.84%
-- Flow 3:
Average throughput: 65.85 Mbit/s
95th percentile per-packet one-way delay: 99.831 ms
Loss rate: 1.44%

Run 3: Report of TCP Vegas — Data Link

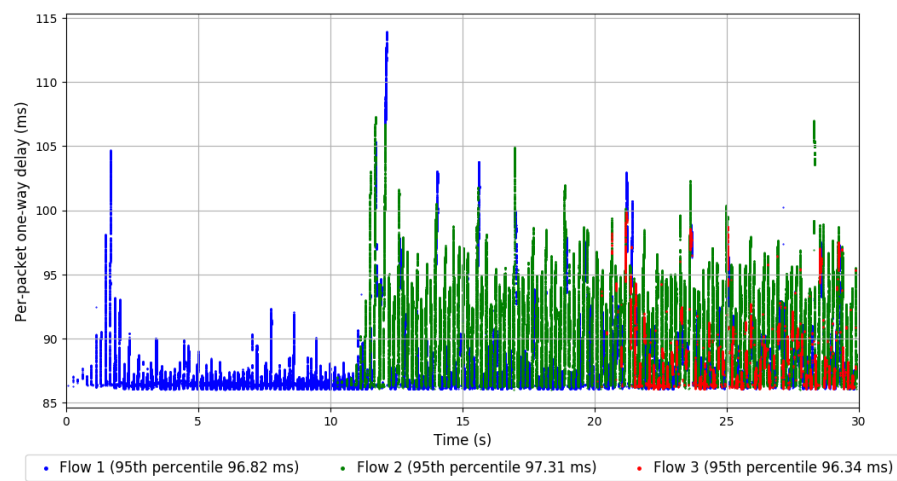
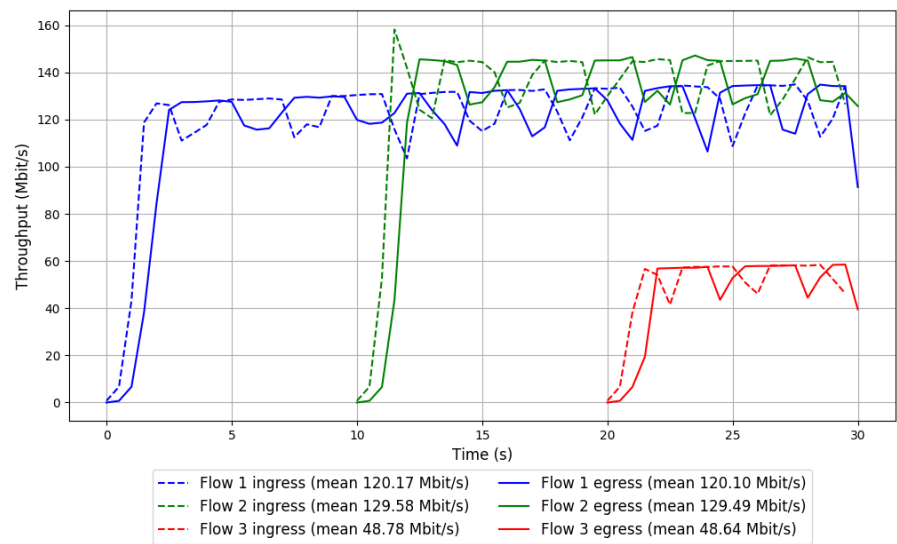


Run 4: Statistics of TCP Vegas

Start at: 2018-05-24 17:17:17
End at: 2018-05-24 17:17:47
Local clock offset: -0.043 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-05-24 21:39:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 222.06 Mbit/s
95th percentile per-packet one-way delay: 96.978 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 120.10 Mbit/s
95th percentile per-packet one-way delay: 96.818 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 129.49 Mbit/s
95th percentile per-packet one-way delay: 97.314 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 48.64 Mbit/s
95th percentile per-packet one-way delay: 96.339 ms
Loss rate: 2.02%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-05-24 17:41:01

End at: 2018-05-24 17:41:31

Local clock offset: 0.035 ms

Remote clock offset: 0.033 ms

Below is generated by plot.py at 2018-05-24 21:39:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.82 Mbit/s

95th percentile per-packet one-way delay: 98.207 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 24.86 Mbit/s

95th percentile per-packet one-way delay: 96.501 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 18.67 Mbit/s

95th percentile per-packet one-way delay: 99.540 ms

Loss rate: 0.36%

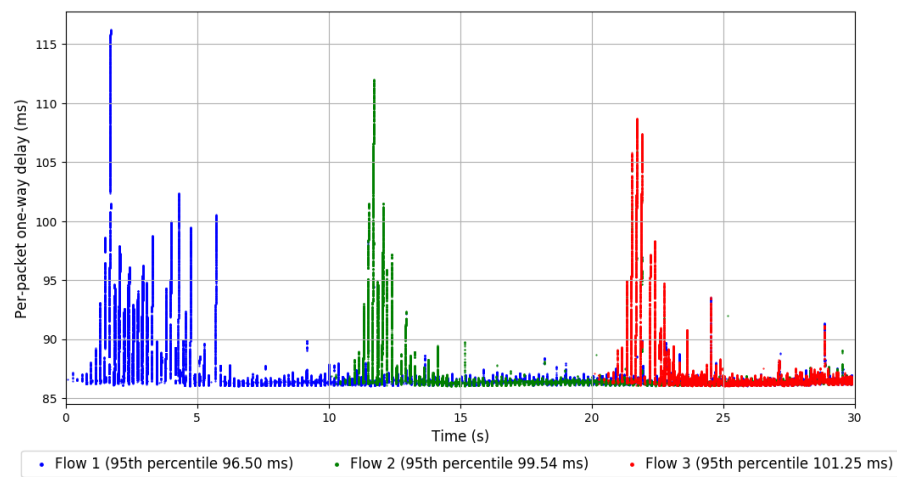
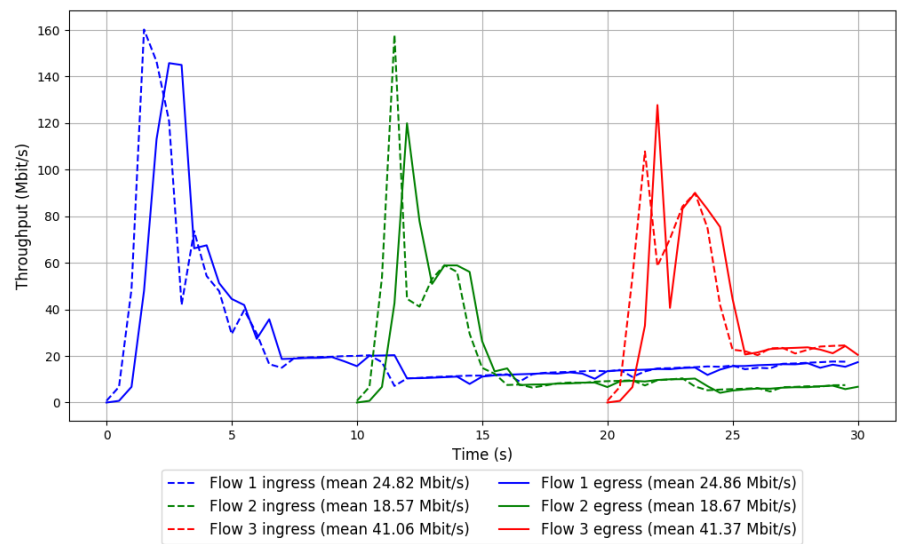
-- Flow 3:

Average throughput: 41.37 Mbit/s

95th percentile per-packet one-way delay: 101.252 ms

Loss rate: 1.01%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-05-24 18:04:08

End at: 2018-05-24 18:04:38

Local clock offset: 0.361 ms

Remote clock offset: 0.198 ms

Below is generated by plot.py at 2018-05-24 21:39:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.67 Mbit/s

95th percentile per-packet one-way delay: 96.777 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 20.34 Mbit/s

95th percentile per-packet one-way delay: 95.806 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 16.11 Mbit/s

95th percentile per-packet one-way delay: 92.055 ms

Loss rate: 0.31%

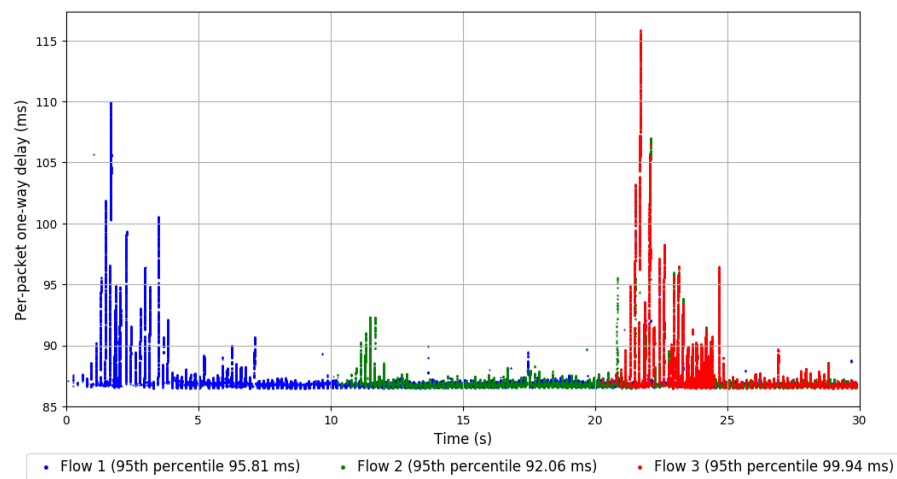
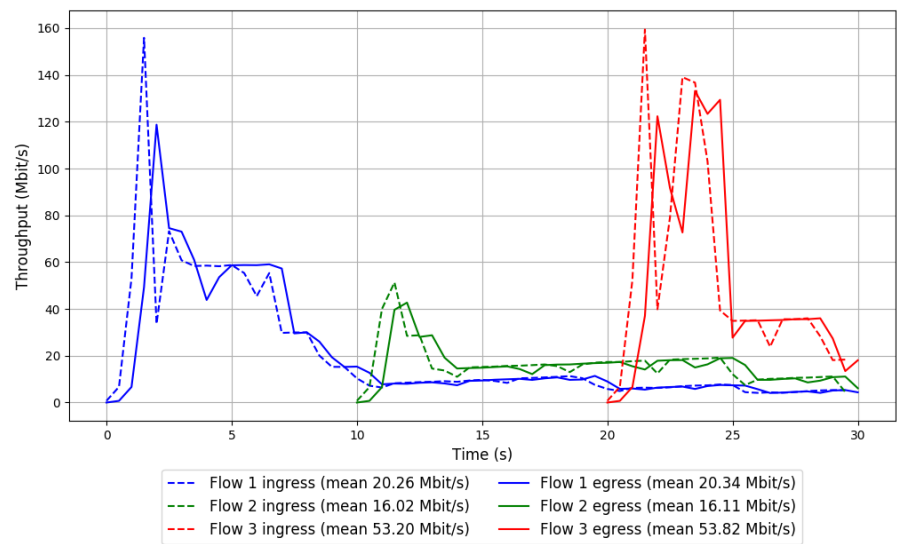
-- Flow 3:

Average throughput: 53.82 Mbit/s

95th percentile per-packet one-way delay: 99.935 ms

Loss rate: 0.59%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-05-24 18:27:57

End at: 2018-05-24 18:28:27

Local clock offset: 0.045 ms

Remote clock offset: 0.328 ms

Below is generated by plot.py at 2018-05-24 21:39:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.05 Mbit/s

95th percentile per-packet one-way delay: 95.547 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 16.22 Mbit/s

95th percentile per-packet one-way delay: 88.855 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 26.27 Mbit/s

95th percentile per-packet one-way delay: 93.422 ms

Loss rate: 0.61%

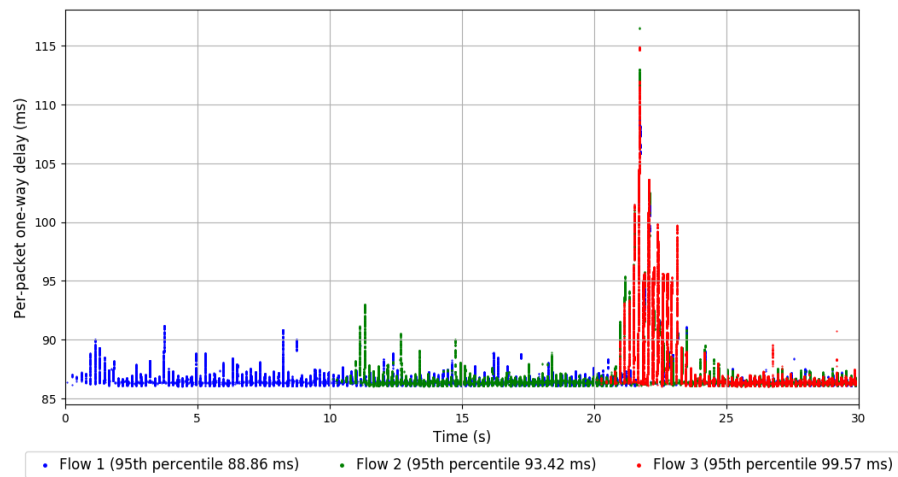
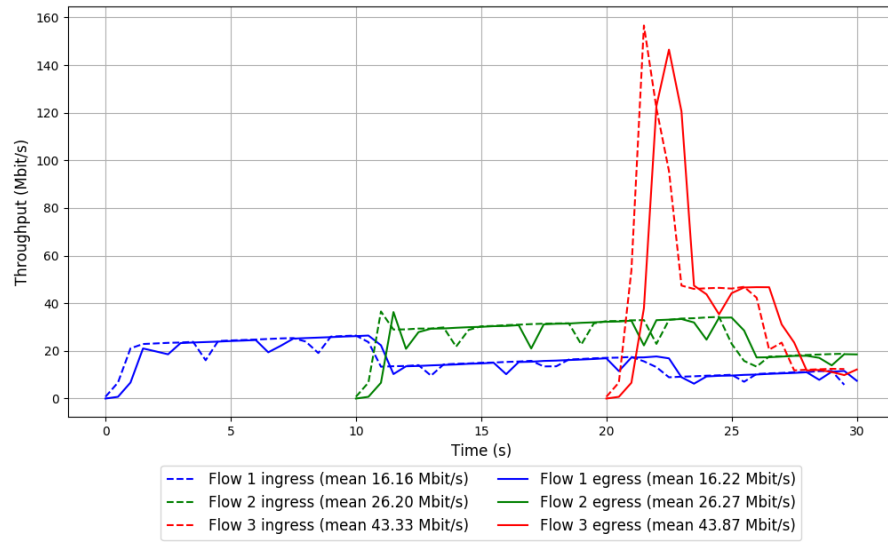
-- Flow 3:

Average throughput: 43.87 Mbit/s

95th percentile per-packet one-way delay: 99.572 ms

Loss rate: 0.50%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-05-24 18:51:03

End at: 2018-05-24 18:51:33

Local clock offset: -0.1 ms

Remote clock offset: 0.448 ms

Below is generated by plot.py at 2018-05-24 21:39:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.90 Mbit/s

95th percentile per-packet one-way delay: 95.667 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 22.44 Mbit/s

95th percentile per-packet one-way delay: 95.213 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 22.66 Mbit/s

95th percentile per-packet one-way delay: 94.988 ms

Loss rate: 0.77%

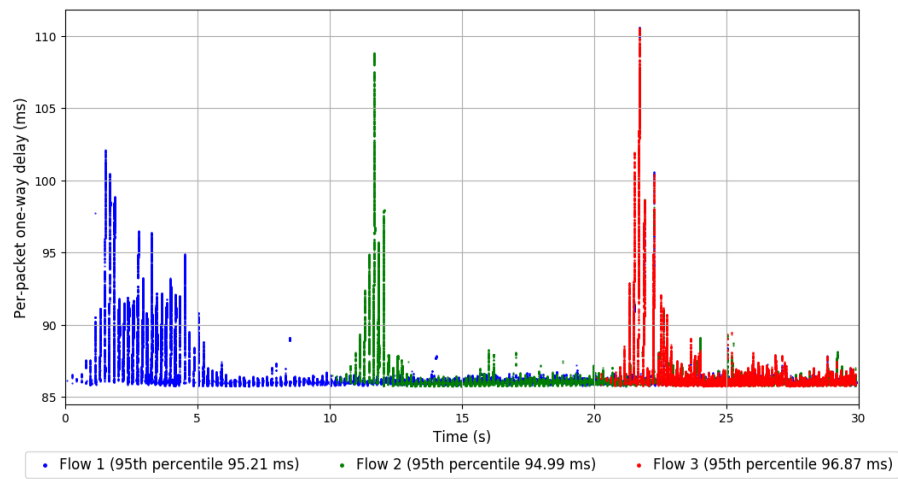
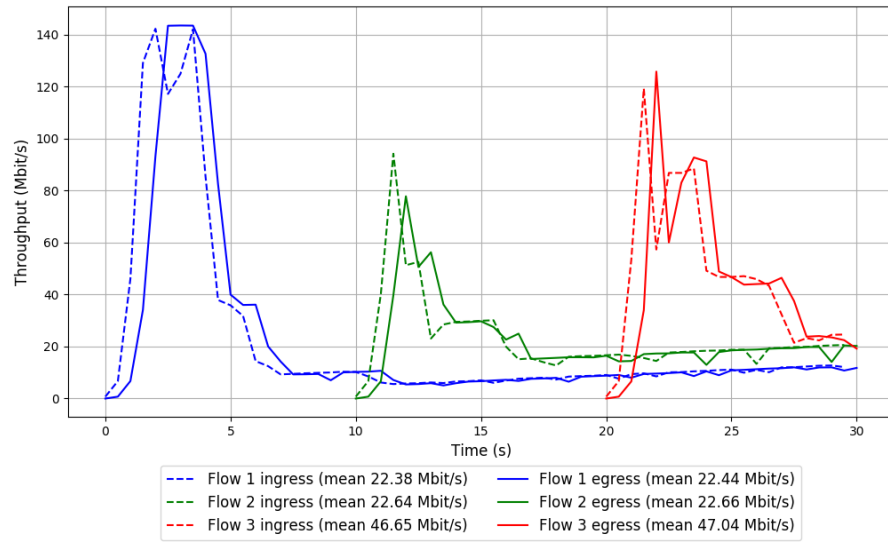
-- Flow 3:

Average throughput: 47.04 Mbit/s

95th percentile per-packet one-way delay: 96.868 ms

Loss rate: 0.90%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-05-24 19:14:54

End at: 2018-05-24 19:15:24

Local clock offset: 0.141 ms

Remote clock offset: 0.523 ms

Below is generated by plot.py at 2018-05-24 21:39:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.48 Mbit/s

95th percentile per-packet one-way delay: 92.514 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 19.98 Mbit/s

95th percentile per-packet one-way delay: 88.025 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 32.92 Mbit/s

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

Loss rate: 0.60%

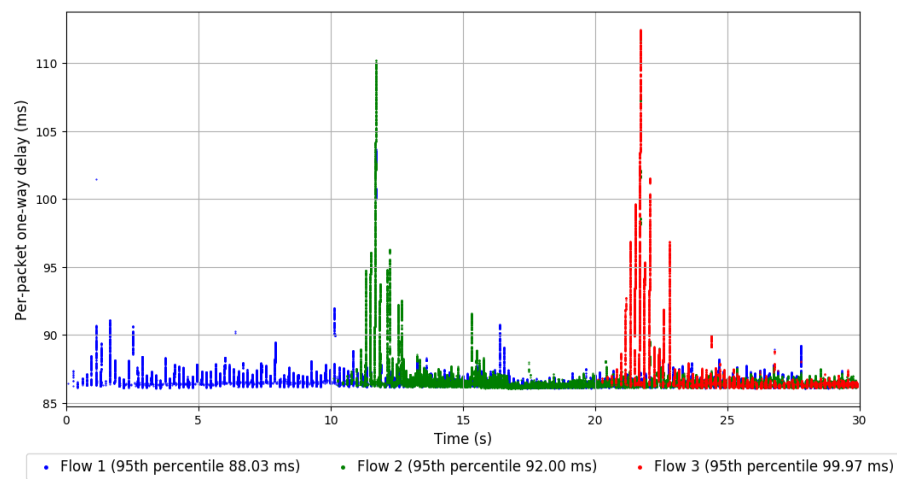
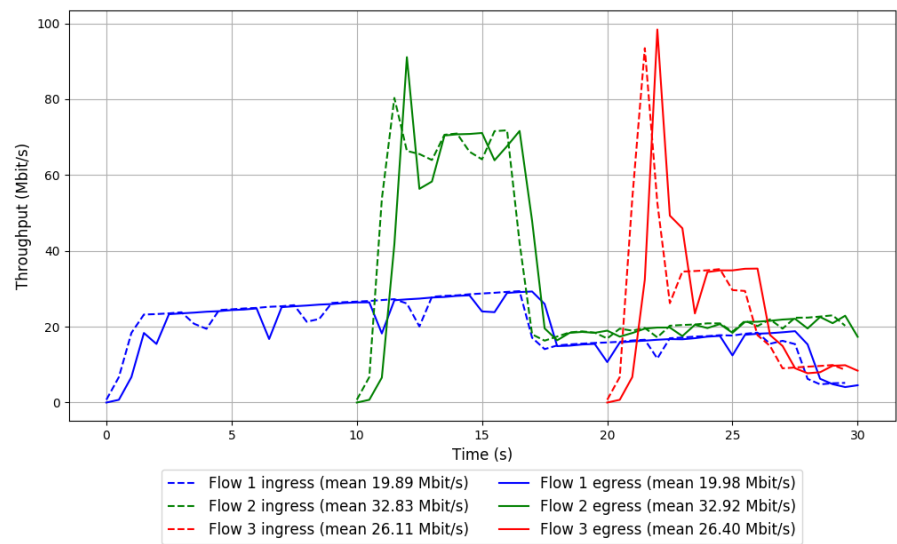
-- Flow 3:

Average throughput: 26.40 Mbit/s

95th percentile per-packet one-way delay: 99.971 ms

Loss rate: 0.65%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-05-24 19:38:12

End at: 2018-05-24 19:38:42

Local clock offset: -0.281 ms

Remote clock offset: 0.064 ms

Below is generated by plot.py at 2018-05-24 21:39:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 115.34 Mbit/s

95th percentile per-packet one-way delay: 97.759 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 90.30 Mbit/s

95th percentile per-packet one-way delay: 98.112 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 20.72 Mbit/s

95th percentile per-packet one-way delay: 94.776 ms

Loss rate: 0.18%

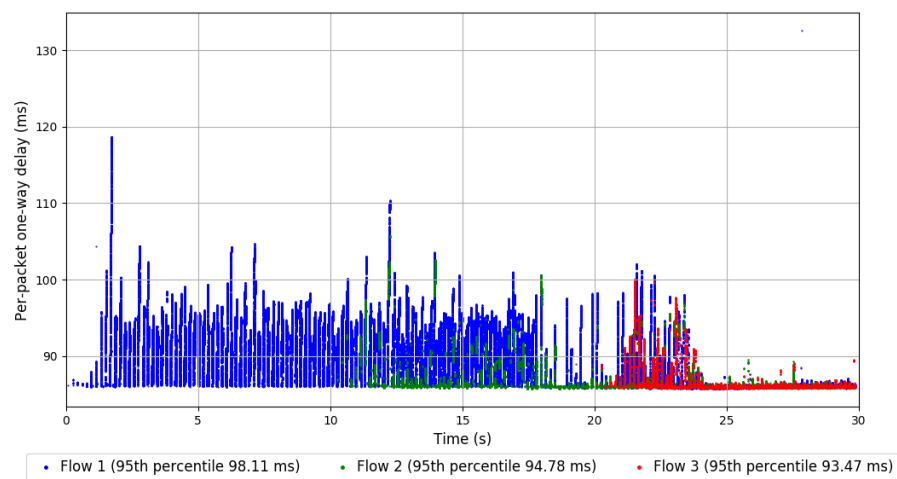
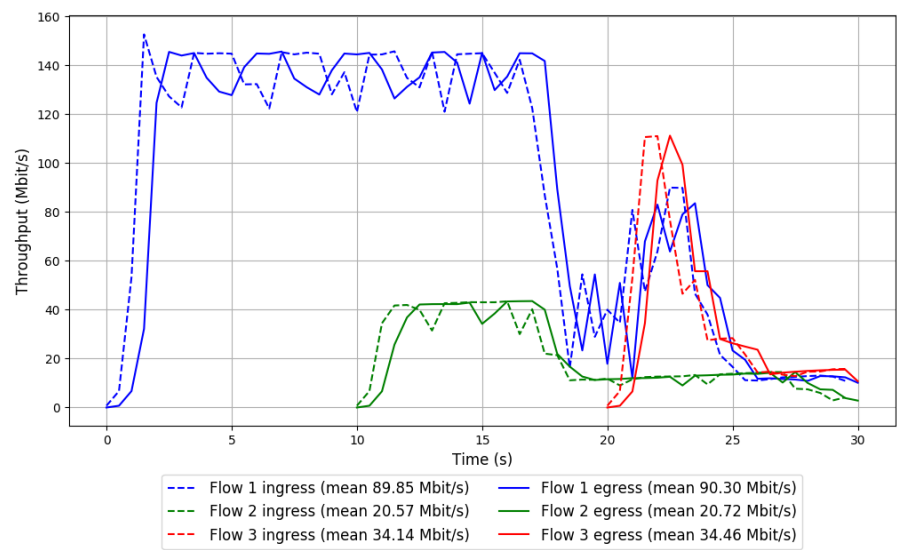
-- Flow 3:

Average throughput: 34.46 Mbit/s

95th percentile per-packet one-way delay: 93.470 ms

Loss rate: 0.80%

Run 10: Report of TCP Vegas — Data Link

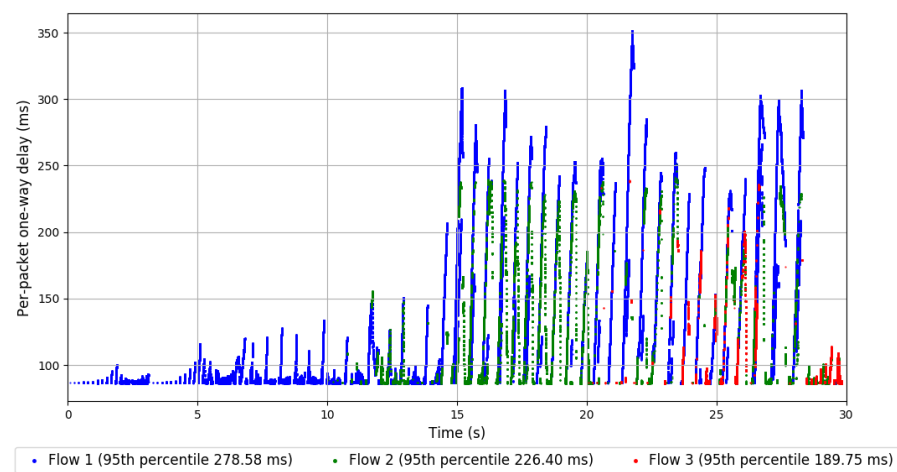
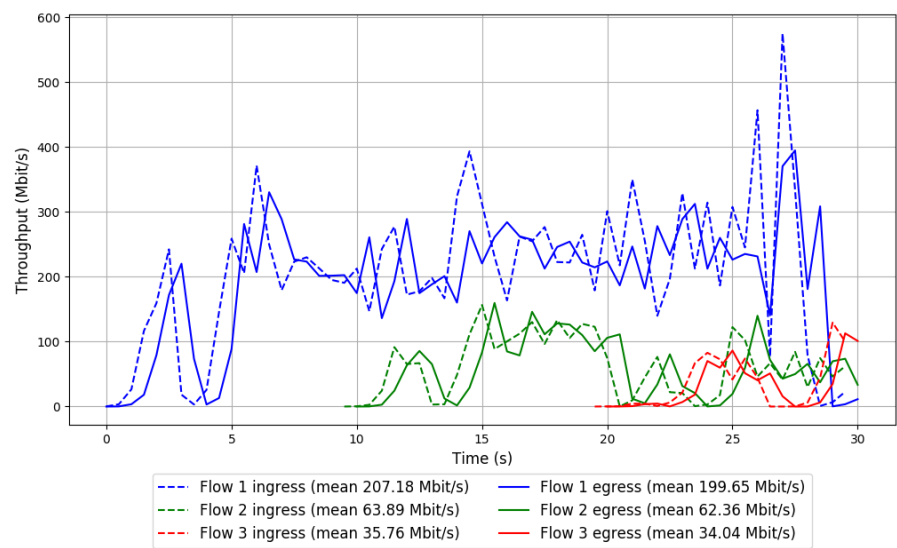


Run 1: Statistics of Verus

Start at: 2018-05-24 16:16:17
End at: 2018-05-24 16:16:47
Local clock offset: -0.142 ms
Remote clock offset: -0.083 ms

Below is generated by plot.py at 2018-05-24 21:40:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 251.84 Mbit/s
95th percentile per-packet one-way delay: 272.680 ms
Loss rate: 4.03%
-- Flow 1:
Average throughput: 199.65 Mbit/s
95th percentile per-packet one-way delay: 278.584 ms
Loss rate: 4.20%
-- Flow 2:
Average throughput: 62.36 Mbit/s
95th percentile per-packet one-way delay: 226.404 ms
Loss rate: 2.87%
-- Flow 3:
Average throughput: 34.04 Mbit/s
95th percentile per-packet one-way delay: 189.753 ms
Loss rate: 5.24%

Run 1: Report of Verus — Data Link

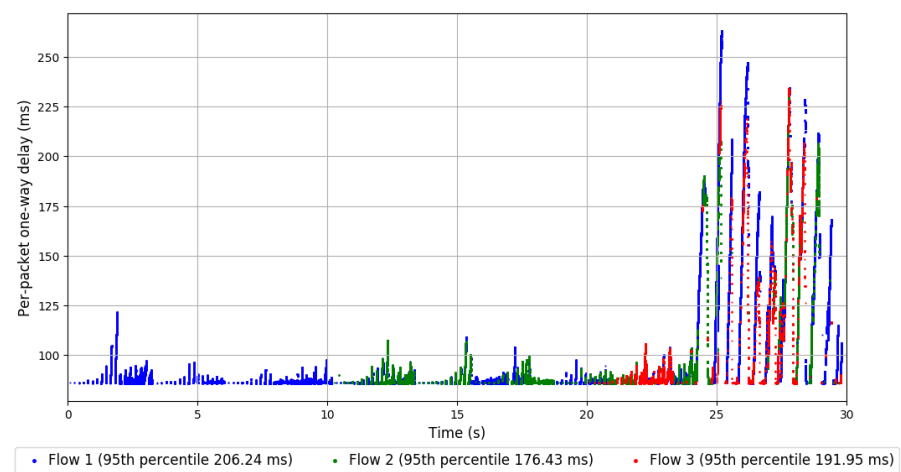
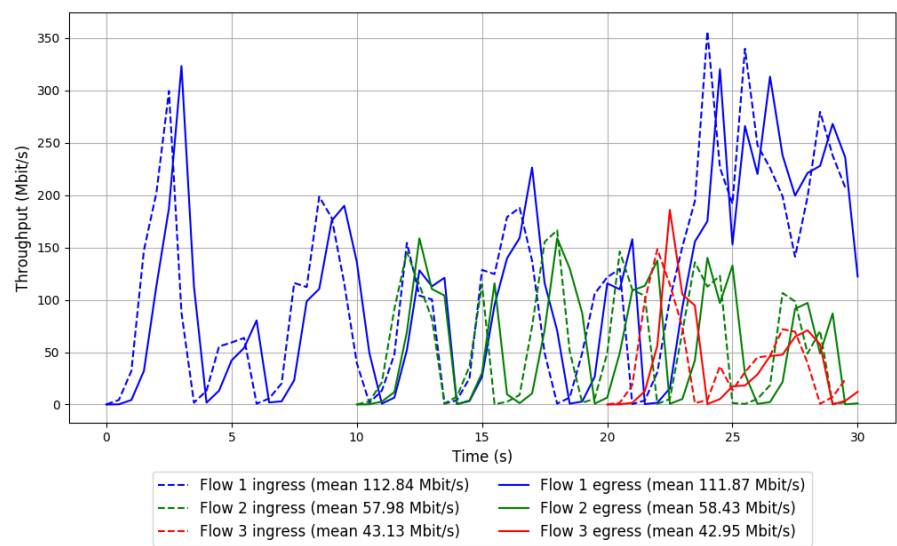


Run 2: Statistics of Verus

Start at: 2018-05-24 16:39:45
End at: 2018-05-24 16:40:15
Local clock offset: -0.228 ms
Remote clock offset: -0.093 ms

Below is generated by plot.py at 2018-05-24 21:40:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 164.33 Mbit/s
95th percentile per-packet one-way delay: 196.482 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 111.87 Mbit/s
95th percentile per-packet one-way delay: 206.243 ms
Loss rate: 1.56%
-- Flow 2:
Average throughput: 58.43 Mbit/s
95th percentile per-packet one-way delay: 176.434 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 42.95 Mbit/s
95th percentile per-packet one-way delay: 191.950 ms
Loss rate: 2.19%

Run 2: Report of Verus — Data Link

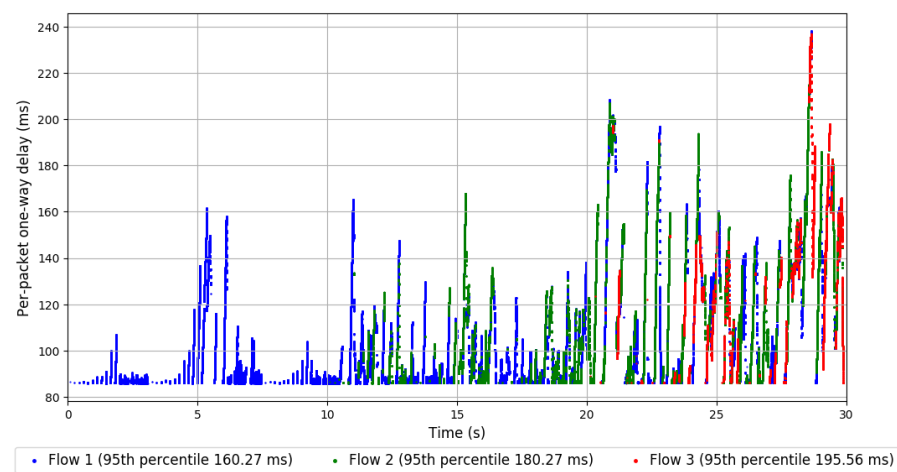
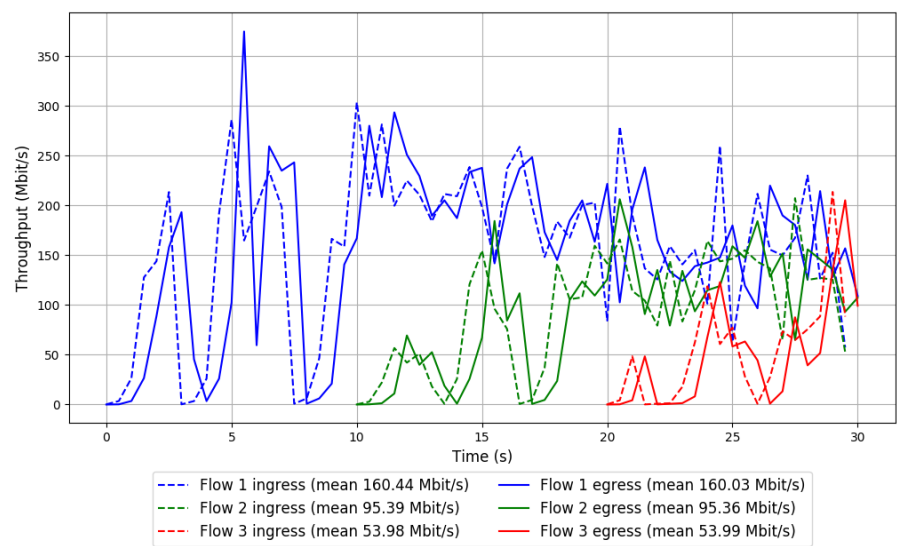


Run 3: Statistics of Verus

Start at: 2018-05-24 17:03:37
End at: 2018-05-24 17:04:07
Local clock offset: -0.093 ms
Remote clock offset: -0.067 ms

Below is generated by plot.py at 2018-05-24 21:40:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 240.55 Mbit/s
95th percentile per-packet one-way delay: 172.146 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 160.03 Mbit/s
95th percentile per-packet one-way delay: 160.271 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 95.36 Mbit/s
95th percentile per-packet one-way delay: 180.274 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 53.99 Mbit/s
95th percentile per-packet one-way delay: 195.558 ms
Loss rate: 0.09%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-05-24 17:27:25

End at: 2018-05-24 17:27:55

Local clock offset: 0.086 ms

Remote clock offset: 0.003 ms

Below is generated by plot.py at 2018-05-24 21:43:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 276.98 Mbit/s

95th percentile per-packet one-way delay: 204.757 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 224.86 Mbit/s

95th percentile per-packet one-way delay: 195.939 ms

Loss rate: 1.48%

-- Flow 2:

Average throughput: 52.40 Mbit/s

95th percentile per-packet one-way delay: 203.199 ms

Loss rate: 0.17%

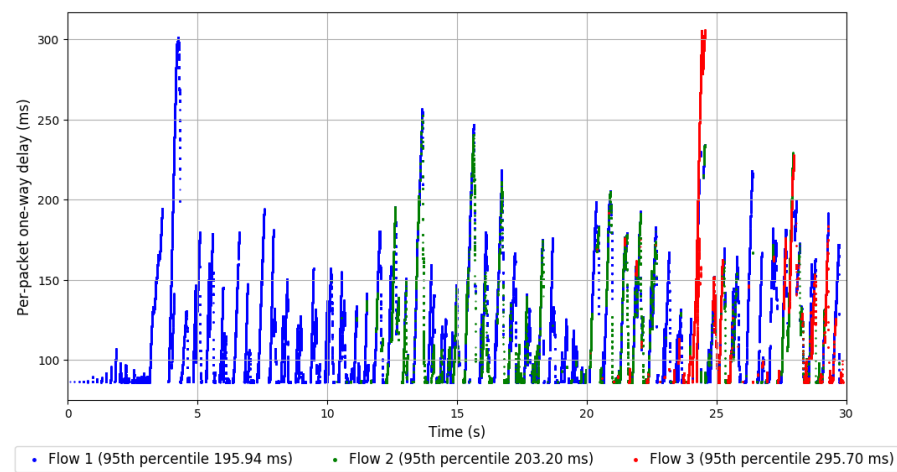
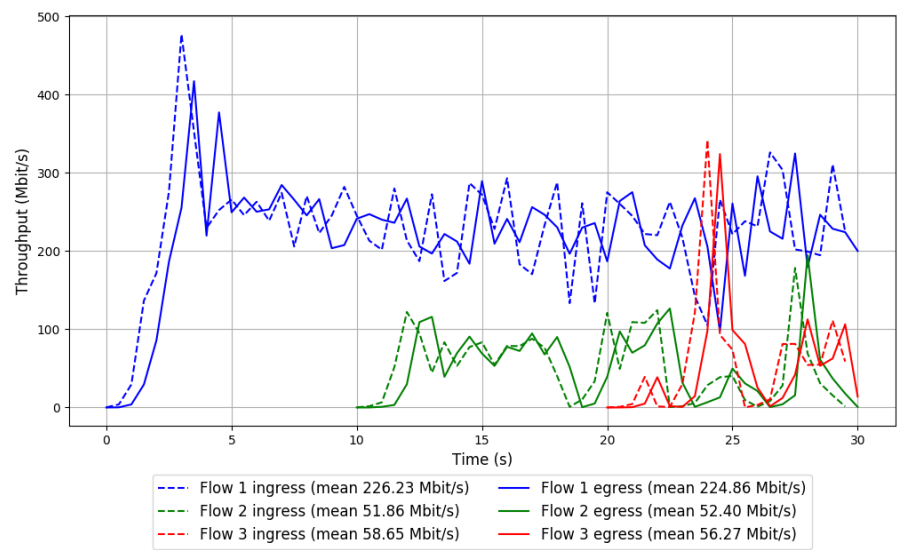
-- Flow 3:

Average throughput: 56.27 Mbit/s

95th percentile per-packet one-way delay: 295.697 ms

Loss rate: 5.92%

Run 4: Report of Verus — Data Link

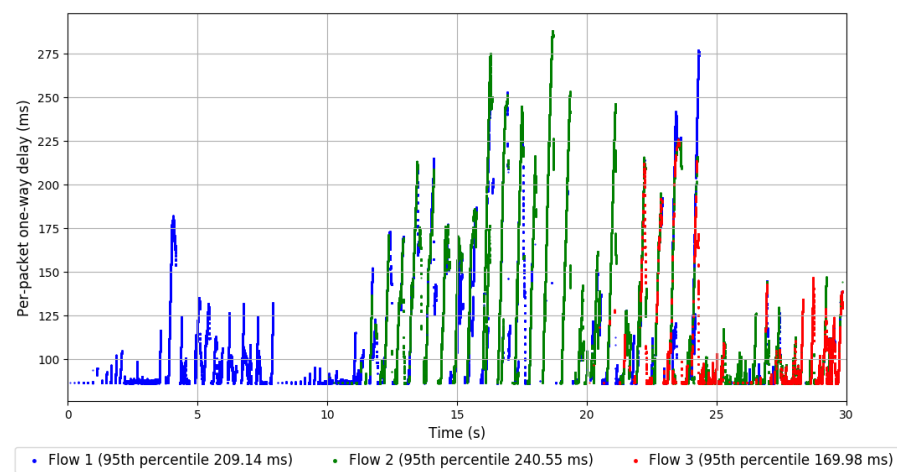
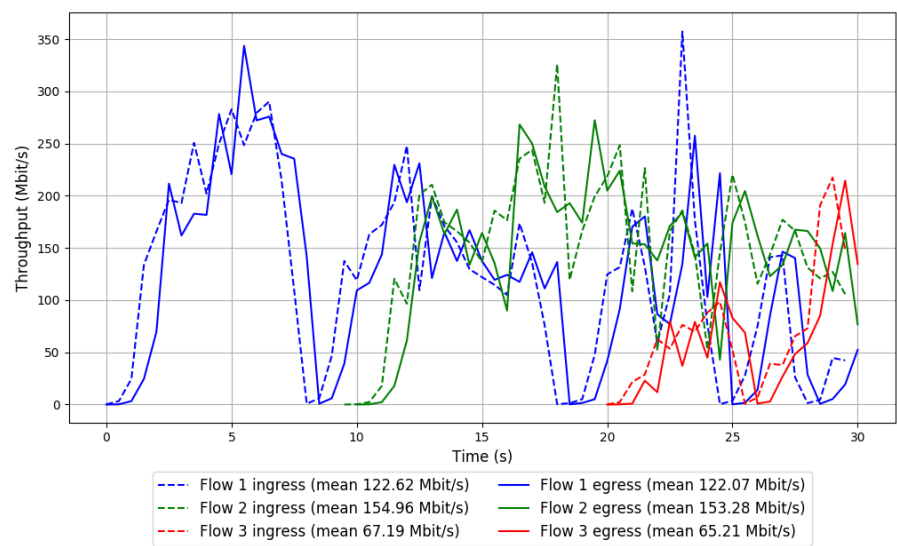


Run 5: Statistics of Verus

Start at: 2018-05-24 17:51:10
End at: 2018-05-24 17:51:40
Local clock offset: -0.121 ms
Remote clock offset: 0.093 ms

Below is generated by plot.py at 2018-05-24 21:43:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 245.20 Mbit/s
95th percentile per-packet one-way delay: 223.731 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 122.07 Mbit/s
95th percentile per-packet one-way delay: 209.143 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 153.28 Mbit/s
95th percentile per-packet one-way delay: 240.551 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 65.21 Mbit/s
95th percentile per-packet one-way delay: 169.984 ms
Loss rate: 4.66%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-05-24 18:14:27

End at: 2018-05-24 18:14:57

Local clock offset: 0.078 ms

Remote clock offset: 0.346 ms

Below is generated by plot.py at 2018-05-24 21:43:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 228.01 Mbit/s

95th percentile per-packet one-way delay: 235.265 ms

Loss rate: 1.35%

-- Flow 1:

Average throughput: 180.62 Mbit/s

95th percentile per-packet one-way delay: 243.462 ms

Loss rate: 1.45%

-- Flow 2:

Average throughput: 51.51 Mbit/s

95th percentile per-packet one-way delay: 200.276 ms

Loss rate: 0.58%

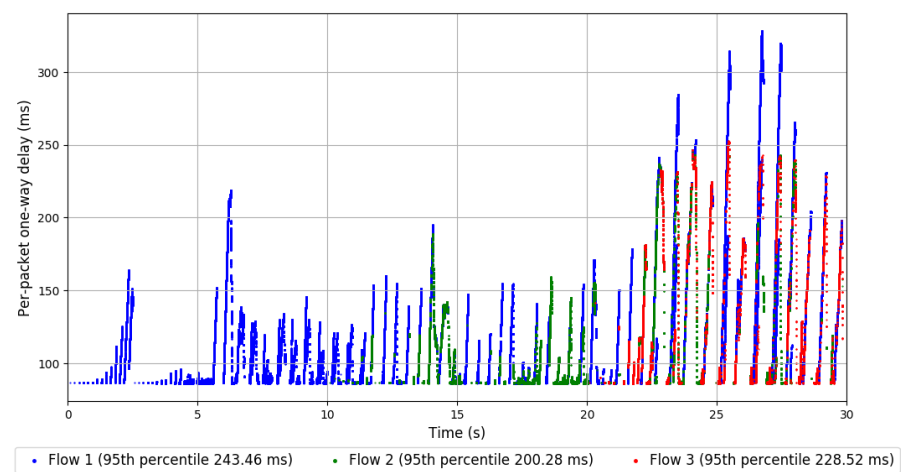
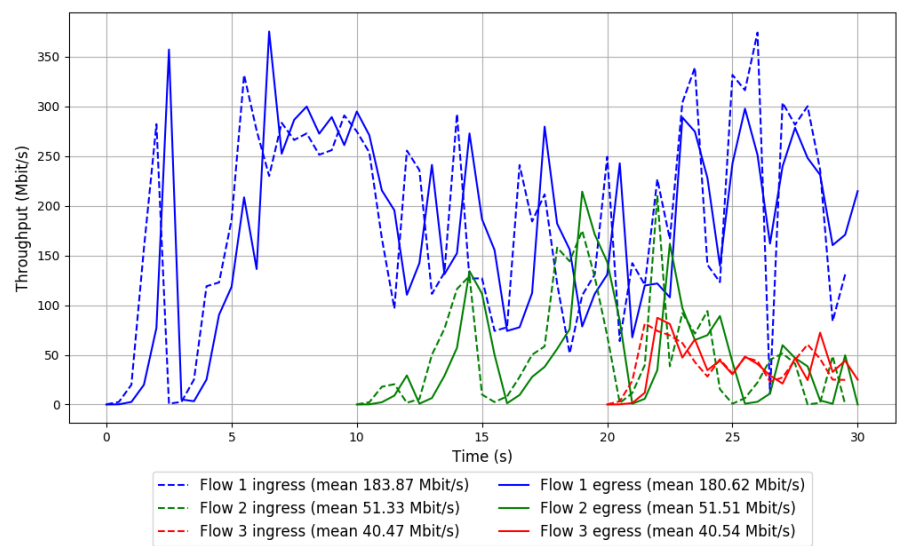
-- Flow 3:

Average throughput: 40.54 Mbit/s

95th percentile per-packet one-way delay: 228.521 ms

Loss rate: 1.97%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-05-24 18:37:43

End at: 2018-05-24 18:38:13

Local clock offset: 0.61 ms

Remote clock offset: 0.364 ms

Below is generated by plot.py at 2018-05-24 21:44:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 244.26 Mbit/s

95th percentile per-packet one-way delay: 213.619 ms

Loss rate: 1.69%

-- Flow 1:

Average throughput: 208.76 Mbit/s

95th percentile per-packet one-way delay: 214.830 ms

Loss rate: 1.78%

-- Flow 2:

Average throughput: 38.61 Mbit/s

95th percentile per-packet one-way delay: 210.365 ms

Loss rate: 1.52%

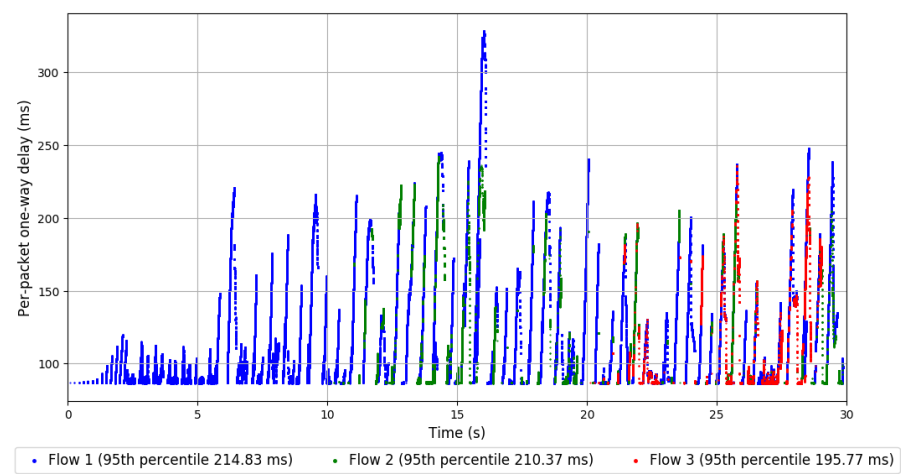
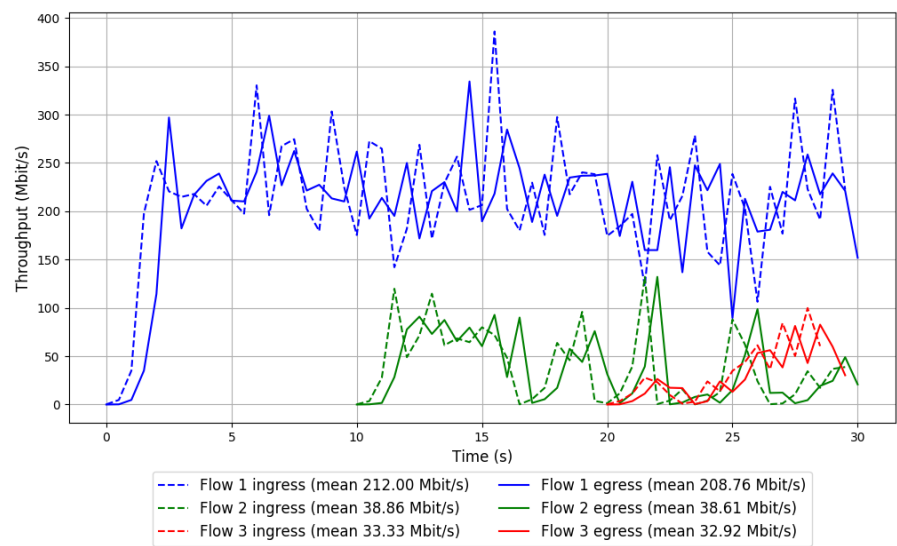
-- Flow 3:

Average throughput: 32.92 Mbit/s

95th percentile per-packet one-way delay: 195.771 ms

Loss rate: 0.20%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-05-24 19:01:05

End at: 2018-05-24 19:01:35

Local clock offset: 0.359 ms

Remote clock offset: 0.465 ms

Below is generated by plot.py at 2018-05-24 21:44:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 196.81 Mbit/s

95th percentile per-packet one-way delay: 192.698 ms

Loss rate: 2.35%

-- Flow 1:

Average throughput: 130.53 Mbit/s

95th percentile per-packet one-way delay: 180.172 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 58.65 Mbit/s

95th percentile per-packet one-way delay: 204.063 ms

Loss rate: 0.23%

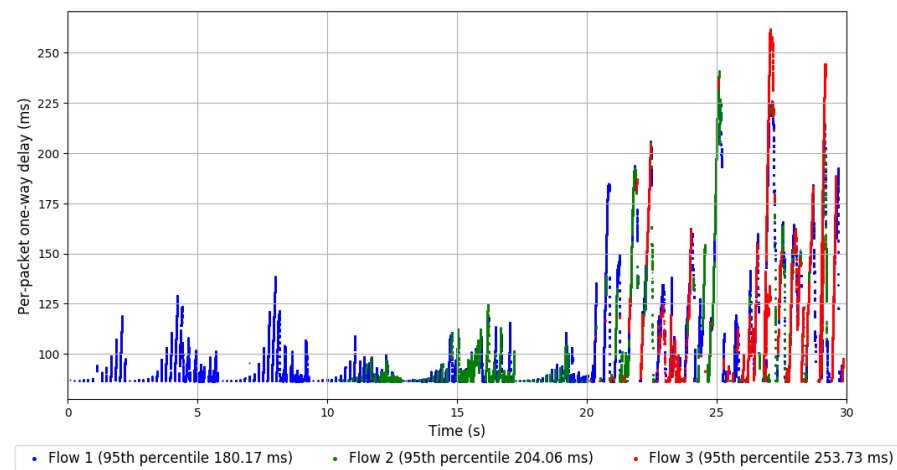
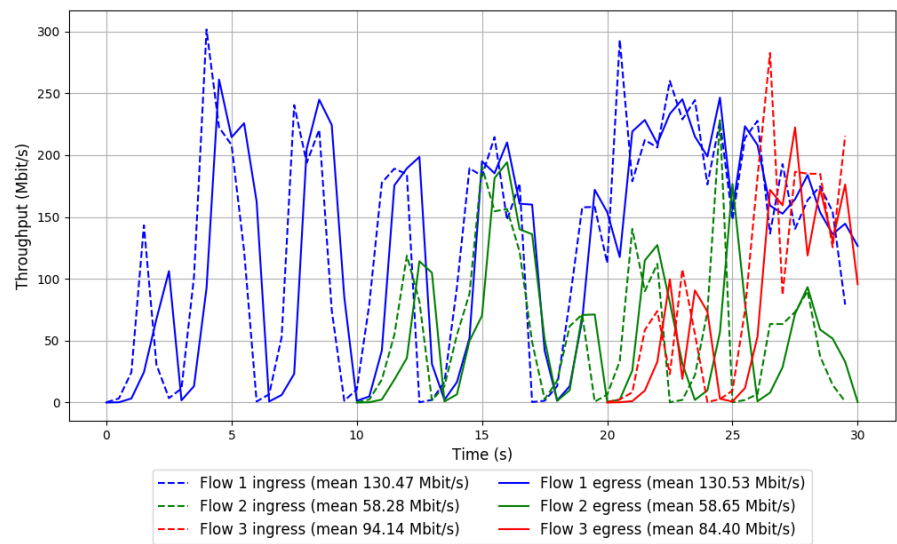
-- Flow 3:

Average throughput: 84.40 Mbit/s

95th percentile per-packet one-way delay: 253.727 ms

Loss rate: 11.91%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-05-24 19:25:01

End at: 2018-05-24 19:25:31

Local clock offset: 0.167 ms

Remote clock offset: 0.578 ms

Below is generated by plot.py at 2018-05-24 21:44:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 237.16 Mbit/s

95th percentile per-packet one-way delay: 193.692 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 172.77 Mbit/s

95th percentile per-packet one-way delay: 180.338 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 70.26 Mbit/s

95th percentile per-packet one-way delay: 196.470 ms

Loss rate: 0.89%

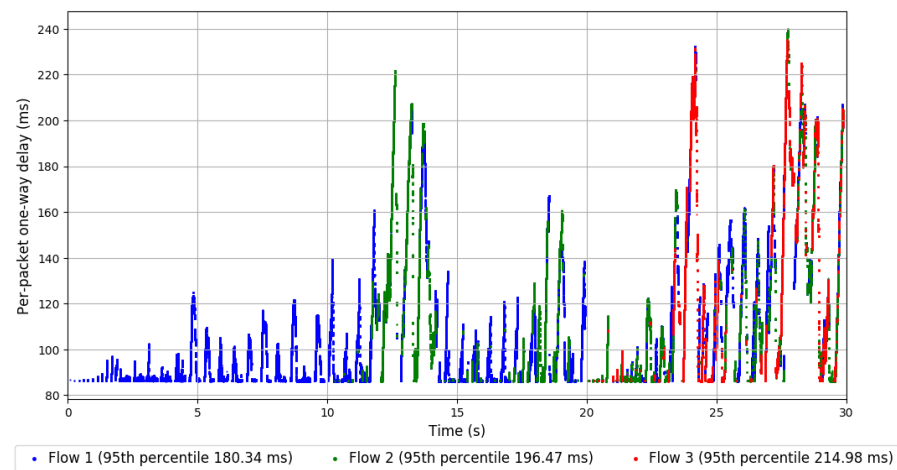
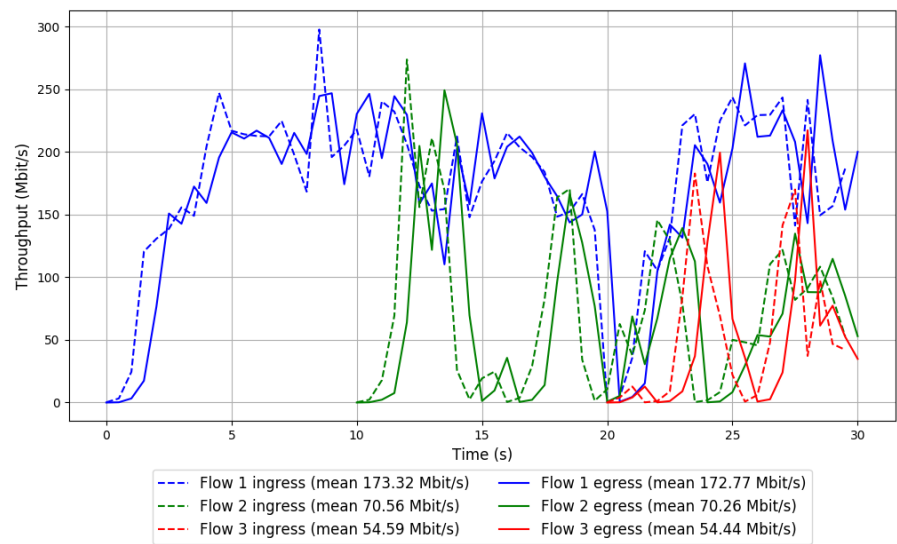
-- Flow 3:

Average throughput: 54.44 Mbit/s

95th percentile per-packet one-way delay: 214.981 ms

Loss rate: 2.01%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-05-24 19:48:06

End at: 2018-05-24 19:48:36

Local clock offset: -0.329 ms

Remote clock offset: -0.12 ms

Below is generated by plot.py at 2018-05-24 21:45:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 242.79 Mbit/s

95th percentile per-packet one-way delay: 166.637 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 184.68 Mbit/s

95th percentile per-packet one-way delay: 161.065 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 57.50 Mbit/s

95th percentile per-packet one-way delay: 179.165 ms

Loss rate: 2.95%

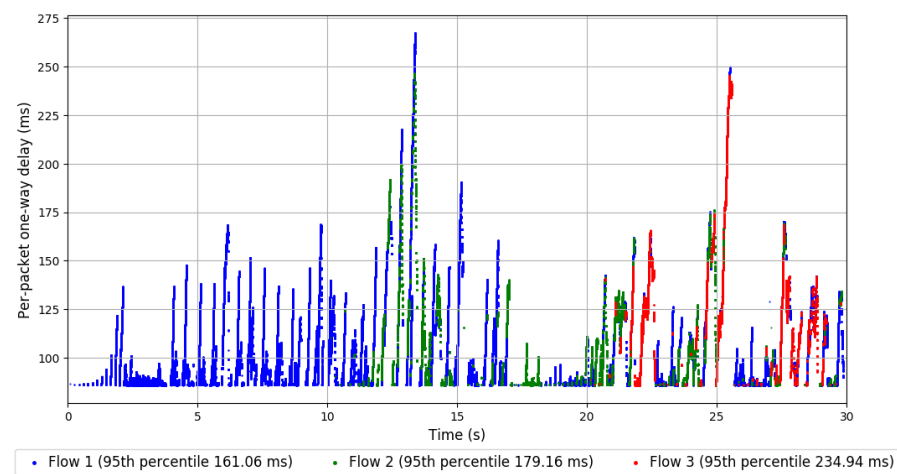
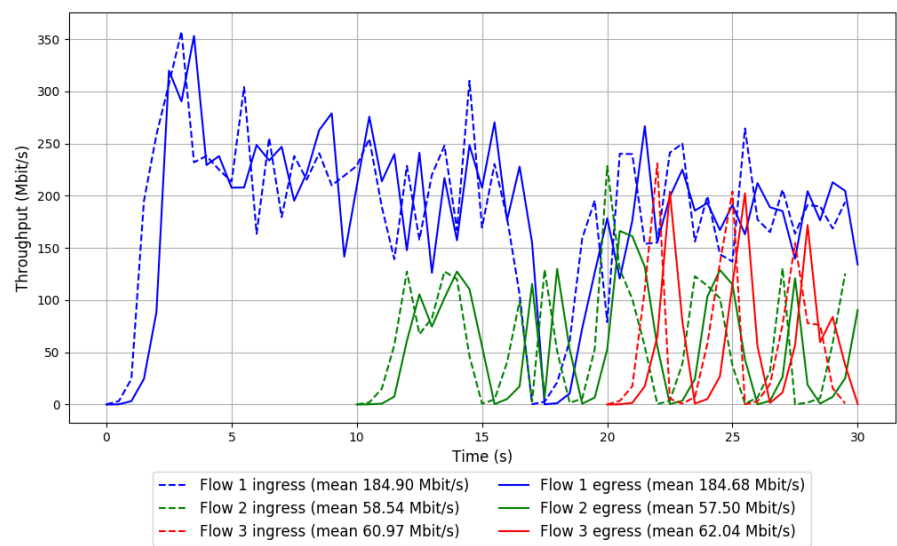
-- Flow 3:

Average throughput: 62.04 Mbit/s

95th percentile per-packet one-way delay: 234.945 ms

Loss rate: 0.06%

Run 10: Report of Verus — Data Link

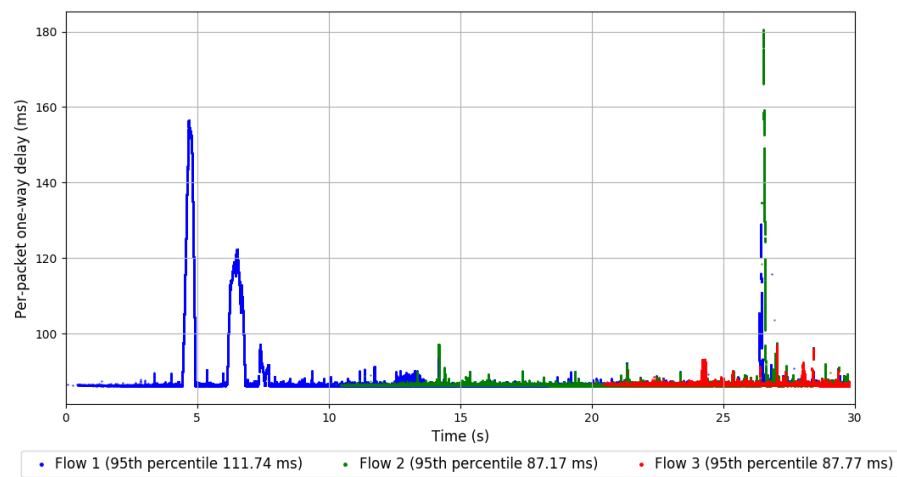
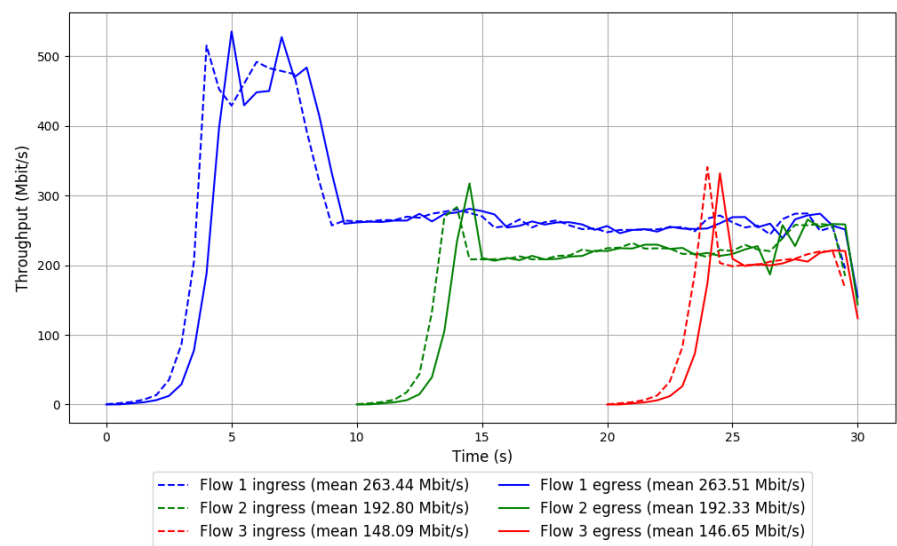


Run 1: Statistics of PCC-Vivace

Start at: 2018-05-24 16:11:21
End at: 2018-05-24 16:11:51
Local clock offset: 0.013 ms
Remote clock offset: -0.088 ms

Below is generated by plot.py at 2018-05-24 21:49:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 438.82 Mbit/s
95th percentile per-packet one-way delay: 95.118 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 263.51 Mbit/s
95th percentile per-packet one-way delay: 111.742 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 192.33 Mbit/s
95th percentile per-packet one-way delay: 87.172 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 146.65 Mbit/s
95th percentile per-packet one-way delay: 87.771 ms
Loss rate: 2.73%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-05-24 16:34:59

End at: 2018-05-24 16:35:29

Local clock offset: -0.03 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at 2018-05-24 21:52:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 482.06 Mbit/s

95th percentile per-packet one-way delay: 87.661 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 297.40 Mbit/s

95th percentile per-packet one-way delay: 88.153 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 206.12 Mbit/s

95th percentile per-packet one-way delay: 87.282 ms

Loss rate: 1.09%

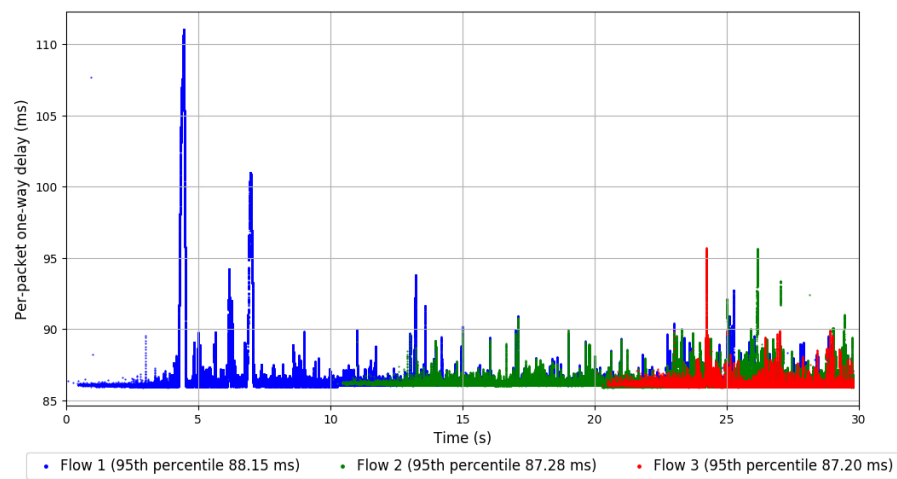
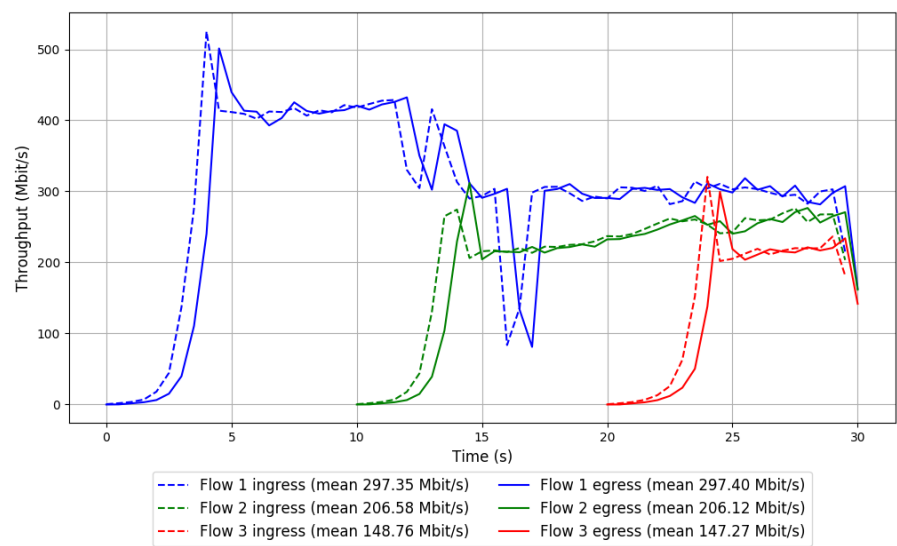
-- Flow 3:

Average throughput: 147.27 Mbit/s

95th percentile per-packet one-way delay: 87.201 ms

Loss rate: 2.75%

Run 2: Report of PCC-Vivace — Data Link

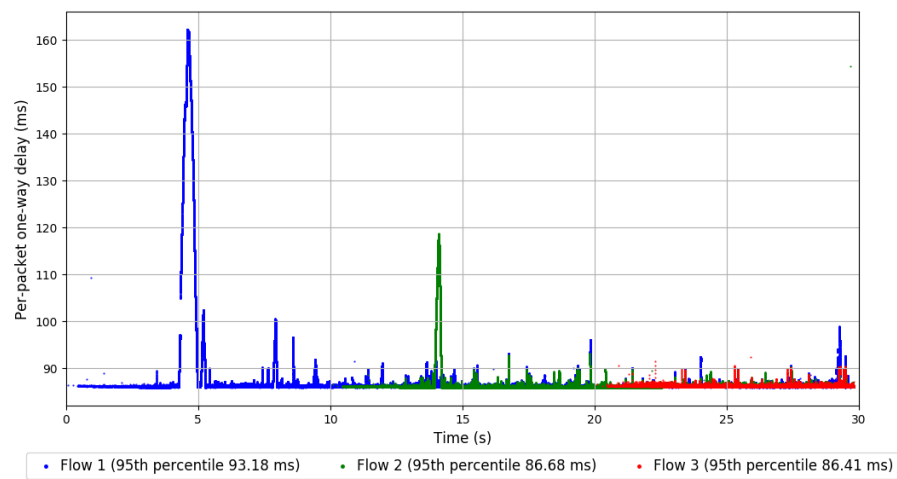
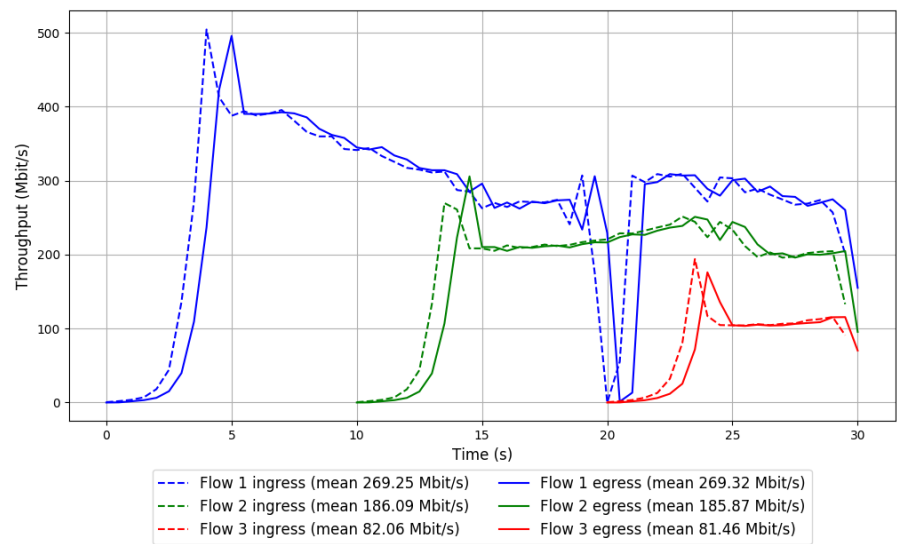


Run 3: Statistics of PCC-Vivace

Start at: 2018-05-24 16:58:46
End at: 2018-05-24 16:59:17
Local clock offset: -0.069 ms
Remote clock offset: -0.011 ms

Below is generated by plot.py at 2018-05-24 21:52:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 419.09 Mbit/s
95th percentile per-packet one-way delay: 89.327 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 269.32 Mbit/s
95th percentile per-packet one-way delay: 93.183 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 185.87 Mbit/s
95th percentile per-packet one-way delay: 86.684 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 81.46 Mbit/s
95th percentile per-packet one-way delay: 86.406 ms
Loss rate: 2.48%

Run 3: Report of PCC-Vivace — Data Link

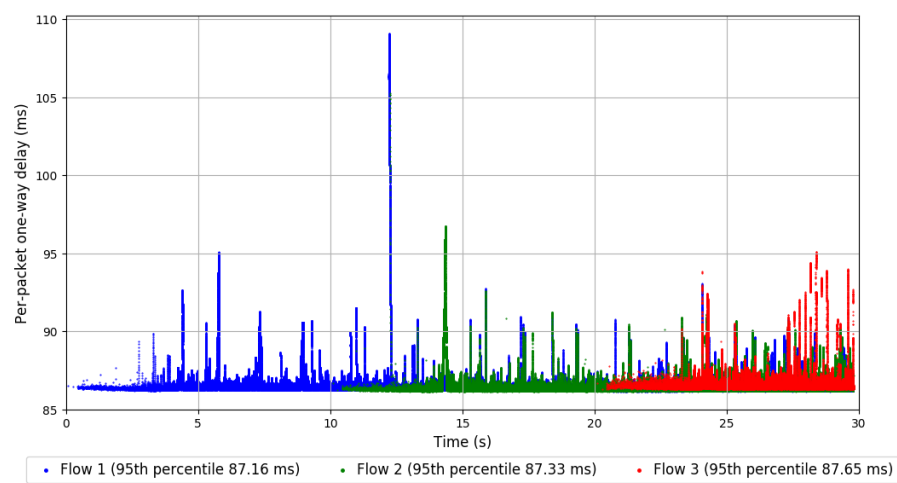
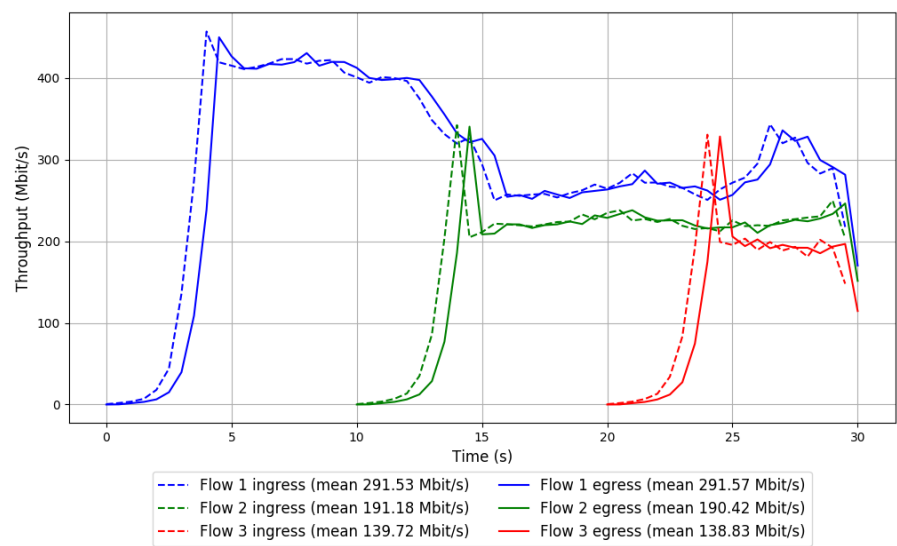


Run 4: Statistics of PCC-Vivace

Start at: 2018-05-24 17:22:39
End at: 2018-05-24 17:23:09
Local clock offset: 0.178 ms
Remote clock offset: -0.007 ms

Below is generated by plot.py at 2018-05-24 21:52:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 463.16 Mbit/s
95th percentile per-packet one-way delay: 87.280 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 291.57 Mbit/s
95th percentile per-packet one-way delay: 87.164 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 190.42 Mbit/s
95th percentile per-packet one-way delay: 87.325 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 138.83 Mbit/s
95th percentile per-packet one-way delay: 87.646 ms
Loss rate: 2.38%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-05-24 17:46:13

End at: 2018-05-24 17:46:43

Local clock offset: 0.16 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2018-05-24 21:52:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 473.06 Mbit/s

95th percentile per-packet one-way delay: 89.570 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 292.30 Mbit/s

95th percentile per-packet one-way delay: 89.947 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 204.25 Mbit/s

95th percentile per-packet one-way delay: 88.431 ms

Loss rate: 1.40%

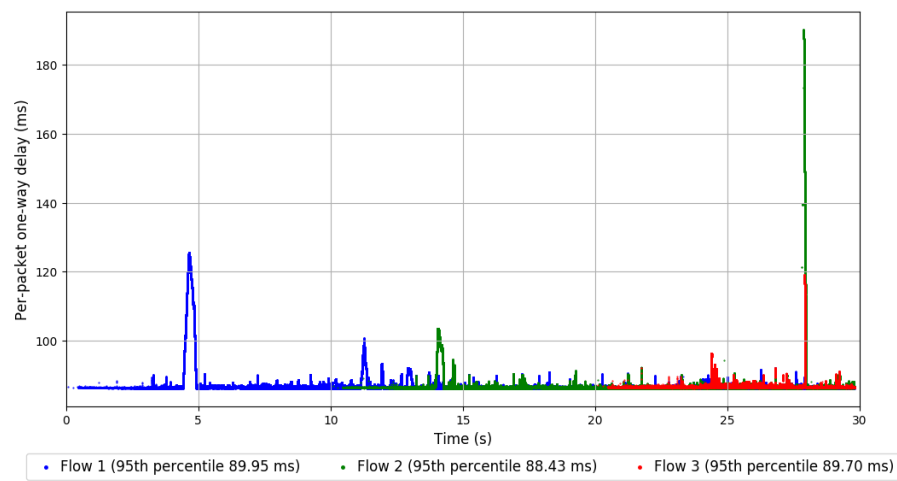
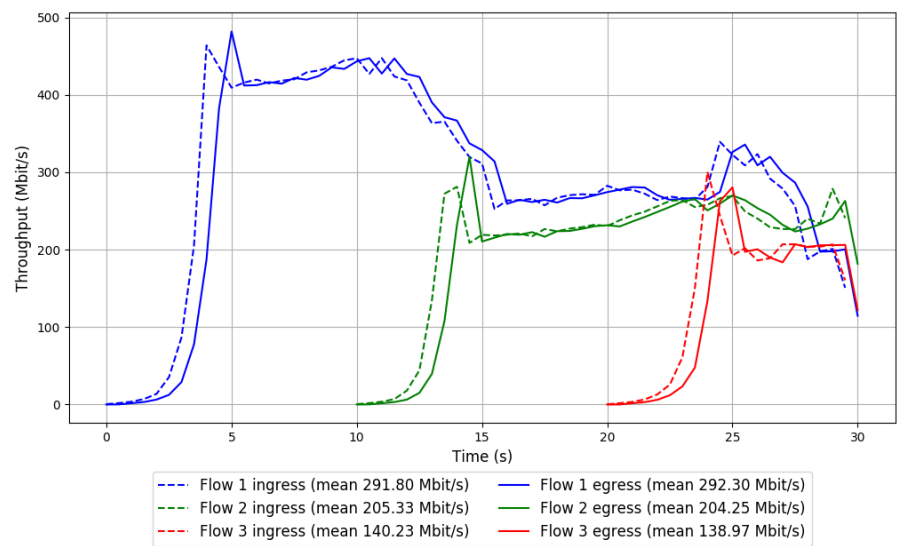
-- Flow 3:

Average throughput: 138.97 Mbit/s

95th percentile per-packet one-way delay: 89.700 ms

Loss rate: 2.64%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-05-24 18:09:22

End at: 2018-05-24 18:09:52

Local clock offset: -0.147 ms

Remote clock offset: 0.277 ms

Below is generated by plot.py at 2018-05-24 21:52:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 478.34 Mbit/s

95th percentile per-packet one-way delay: 112.587 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 285.51 Mbit/s

95th percentile per-packet one-way delay: 137.698 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 198.92 Mbit/s

95th percentile per-packet one-way delay: 95.883 ms

Loss rate: 1.00%

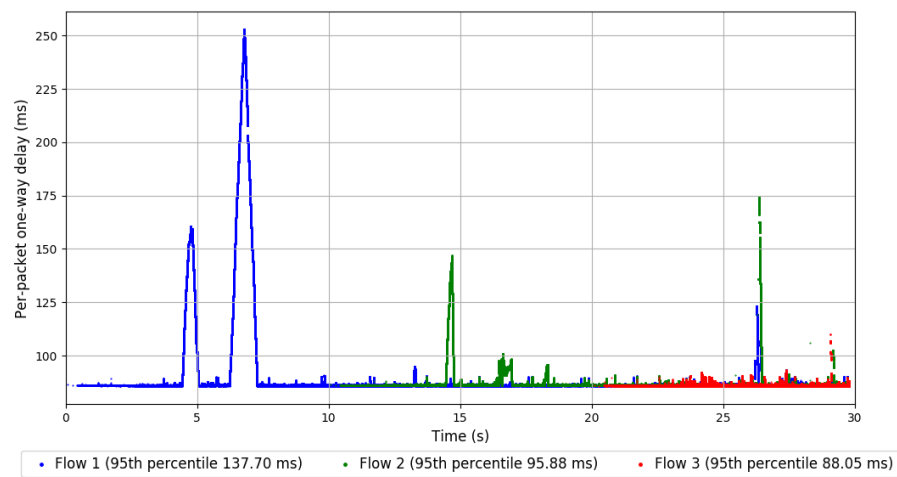
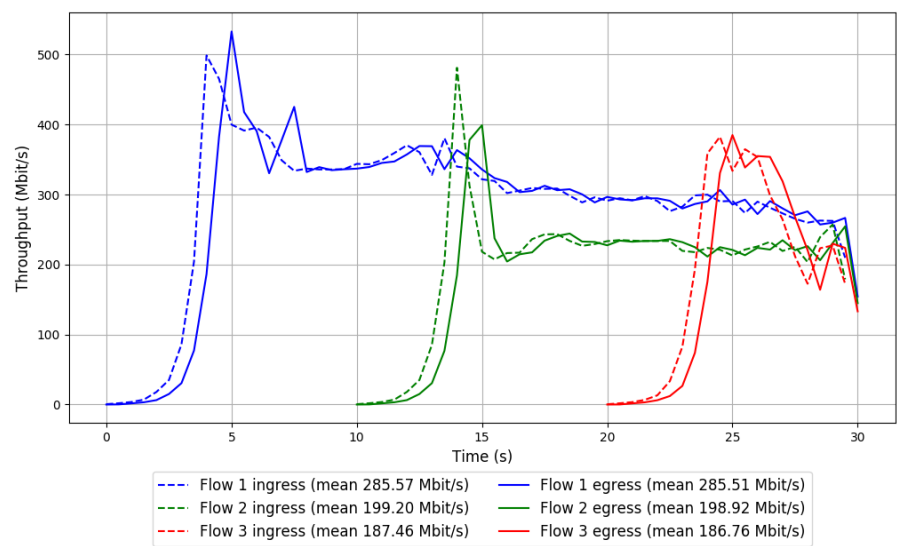
-- Flow 3:

Average throughput: 186.76 Mbit/s

95th percentile per-packet one-way delay: 88.050 ms

Loss rate: 2.11%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-05-24 18:33:09

End at: 2018-05-24 18:33:39

Local clock offset: 0.279 ms

Remote clock offset: 0.364 ms

Below is generated by plot.py at 2018-05-24 21:52:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 356.10 Mbit/s

95th percentile per-packet one-way delay: 86.922 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 211.45 Mbit/s

95th percentile per-packet one-way delay: 86.768 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 204.35 Mbit/s

95th percentile per-packet one-way delay: 87.358 ms

Loss rate: 1.03%

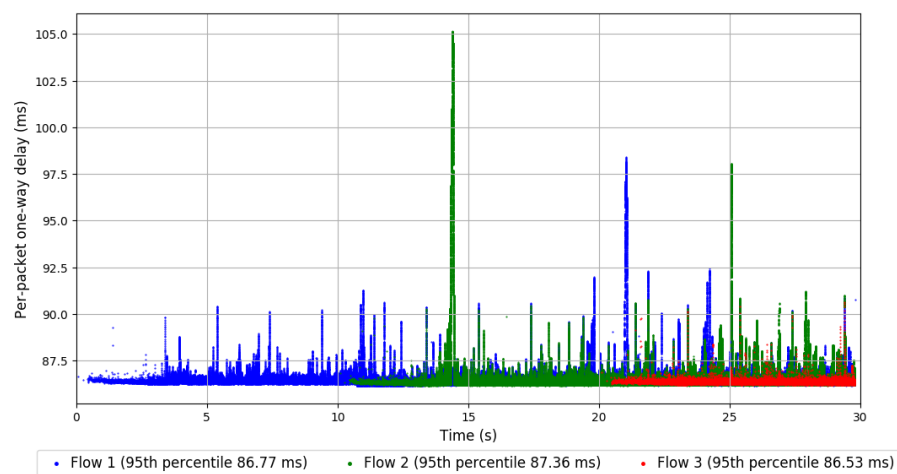
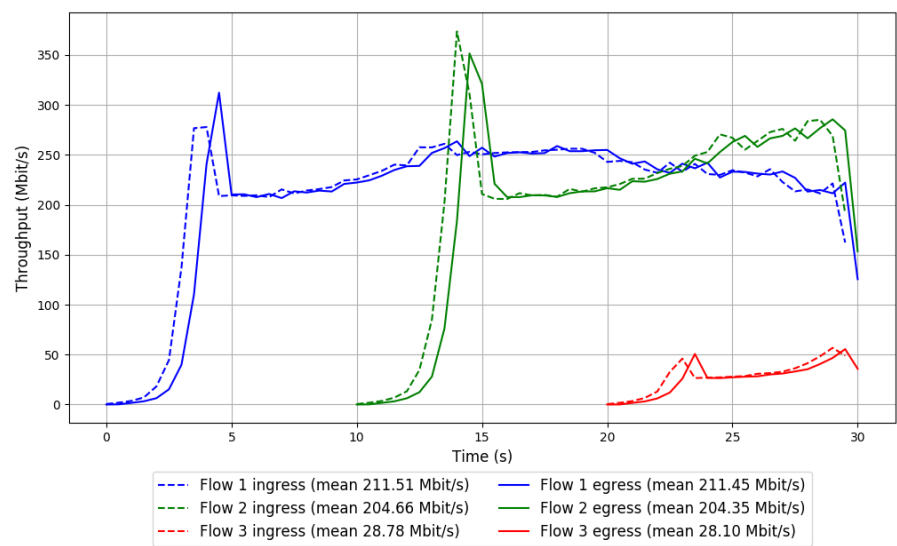
-- Flow 3:

Average throughput: 28.10 Mbit/s

95th percentile per-packet one-way delay: 86.532 ms

Loss rate: 4.17%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-05-24 18:56:20

End at: 2018-05-24 18:56:50

Local clock offset: 0.056 ms

Remote clock offset: 0.462 ms

Below is generated by plot.py at 2018-05-24 21:53:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 462.43 Mbit/s

95th percentile per-packet one-way delay: 88.849 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 281.87 Mbit/s

95th percentile per-packet one-way delay: 92.004 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 199.80 Mbit/s

95th percentile per-packet one-way delay: 87.225 ms

Loss rate: 1.15%

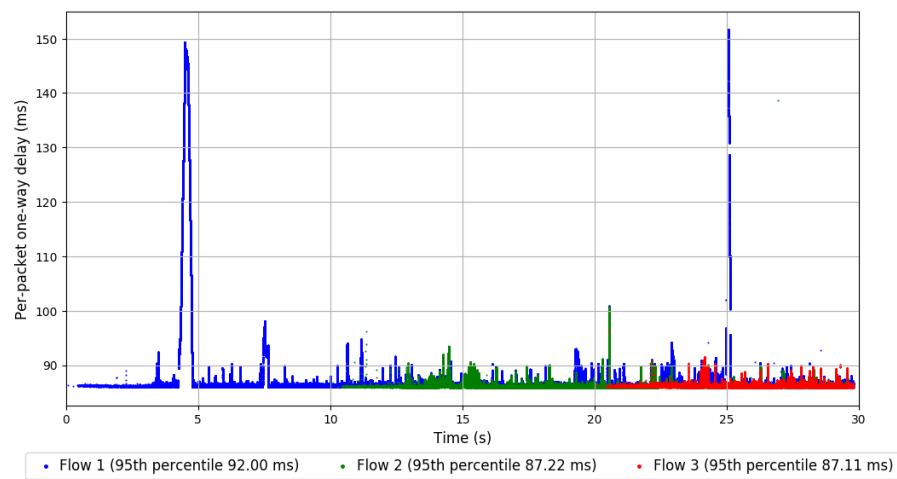
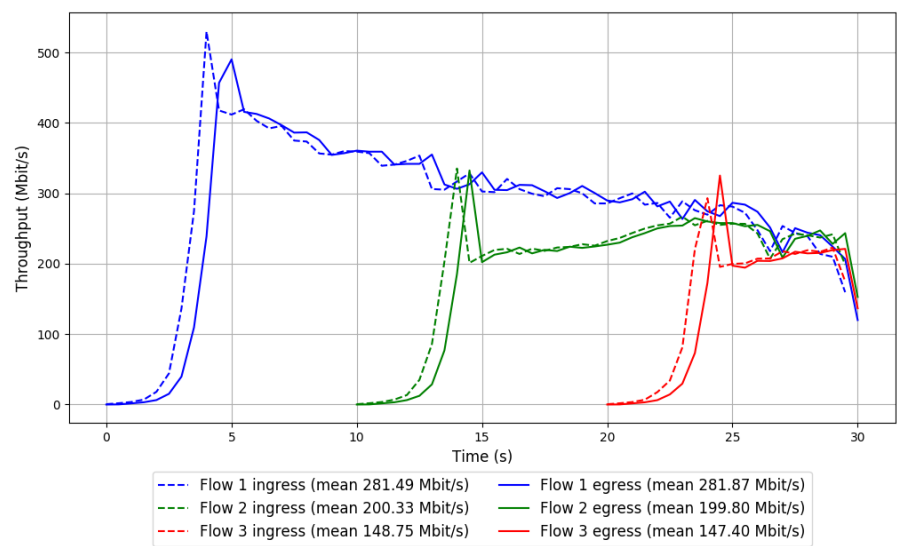
-- Flow 3:

Average throughput: 147.40 Mbit/s

95th percentile per-packet one-way delay: 87.107 ms

Loss rate: 2.64%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-05-24 19:20:06

End at: 2018-05-24 19:20:36

Local clock offset: -0.246 ms

Remote clock offset: 0.568 ms

Below is generated by plot.py at 2018-05-24 21:54:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 480.17 Mbit/s

95th percentile per-packet one-way delay: 88.203 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 295.53 Mbit/s

95th percentile per-packet one-way delay: 100.497 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 206.19 Mbit/s

95th percentile per-packet one-way delay: 86.677 ms

Loss rate: 1.14%

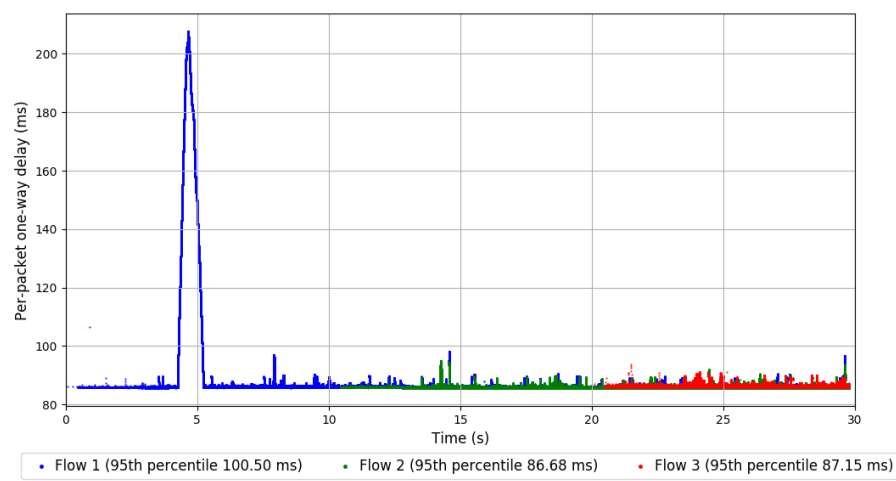
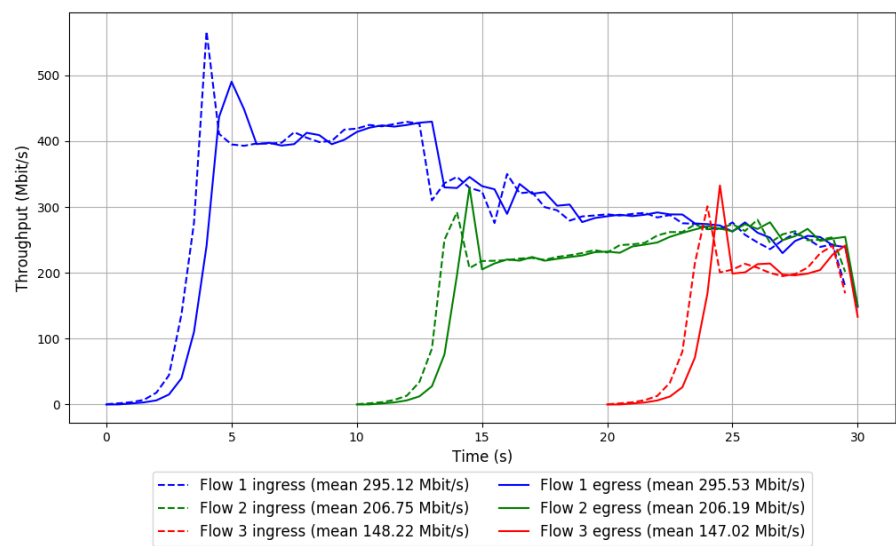
-- Flow 3:

Average throughput: 147.02 Mbit/s

95th percentile per-packet one-way delay: 87.151 ms

Loss rate: 2.56%

Run 9: Report of PCC-Vivace — Data Link

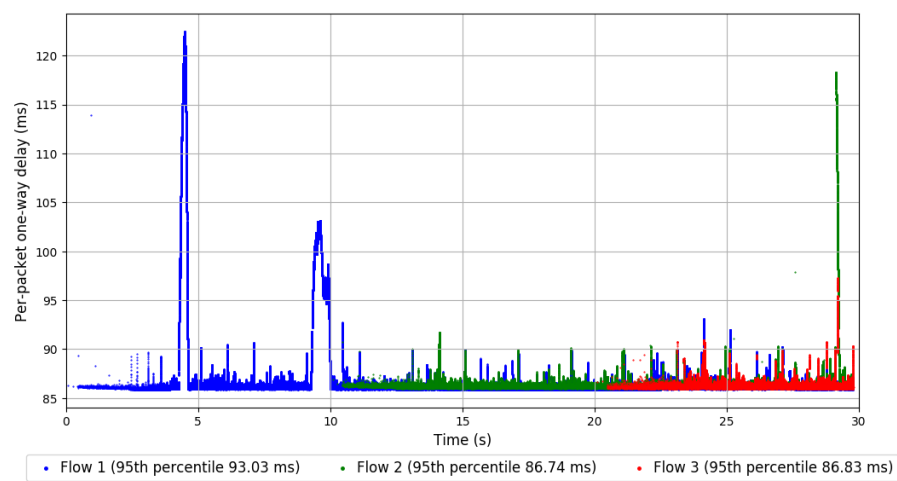
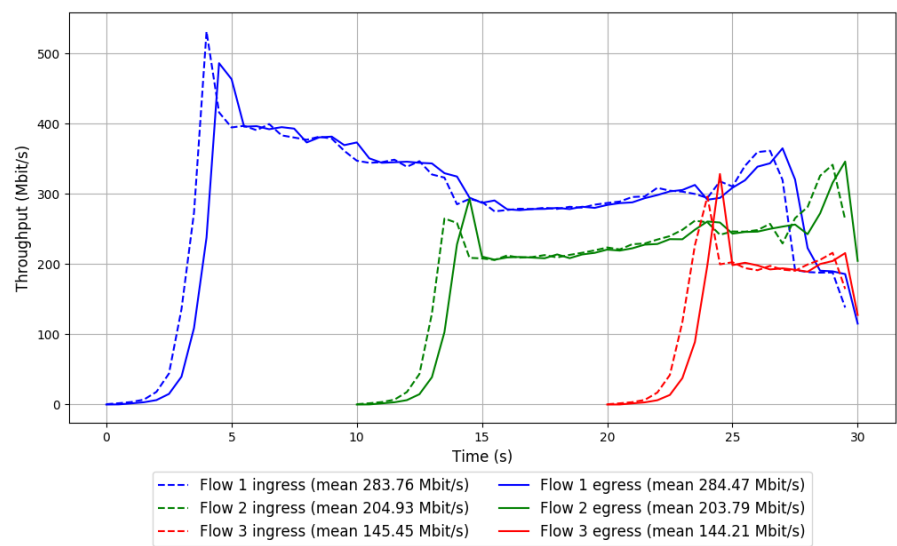


Run 10: Statistics of PCC-Vivace

Start at: 2018-05-24 19:43:27
End at: 2018-05-24 19:43:57
Local clock offset: -0.038 ms
Remote clock offset: -0.028 ms

Below is generated by plot.py at 2018-05-24 21:54:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 466.59 Mbit/s
95th percentile per-packet one-way delay: 87.952 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 284.47 Mbit/s
95th percentile per-packet one-way delay: 93.026 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 203.79 Mbit/s
95th percentile per-packet one-way delay: 86.743 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 144.21 Mbit/s
95th percentile per-packet one-way delay: 86.829 ms
Loss rate: 2.59%

Run 10: Report of PCC-Vivace — Data Link

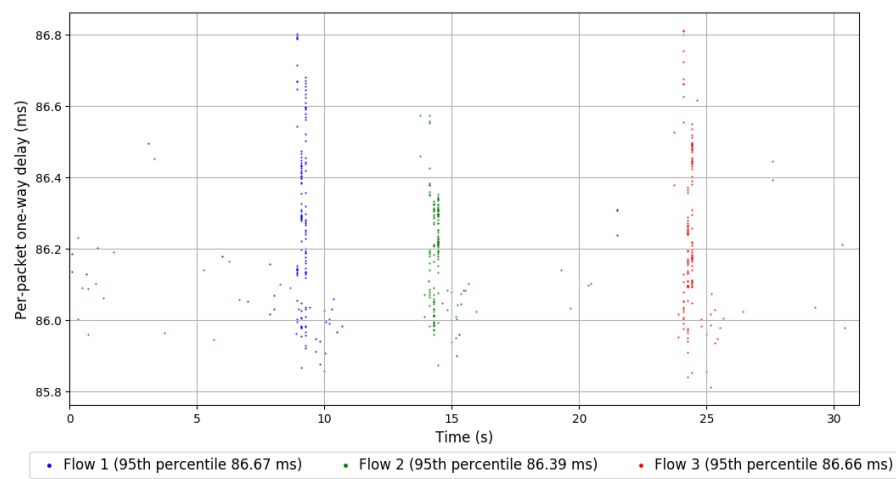
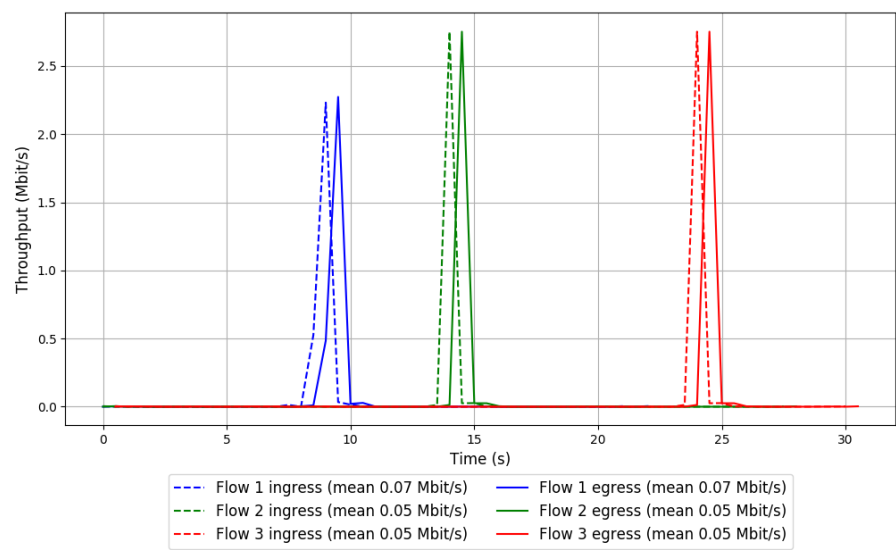


Run 1: Statistics of WebRTC media

Start at: 2018-05-24 16:07:25
End at: 2018-05-24 16:07:55
Local clock offset: -0.459 ms
Remote clock offset: -0.102 ms

Below is generated by plot.py at 2018-05-24 21:54:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 86.626 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 86.670 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.394 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.661 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

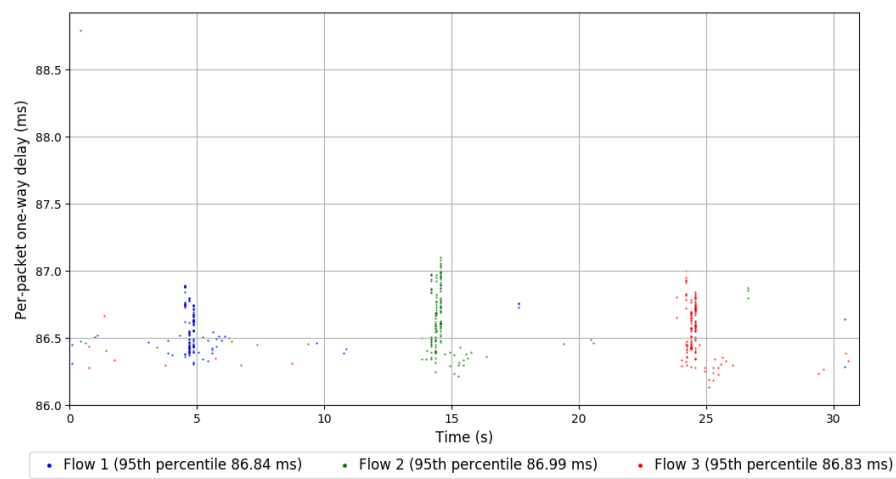
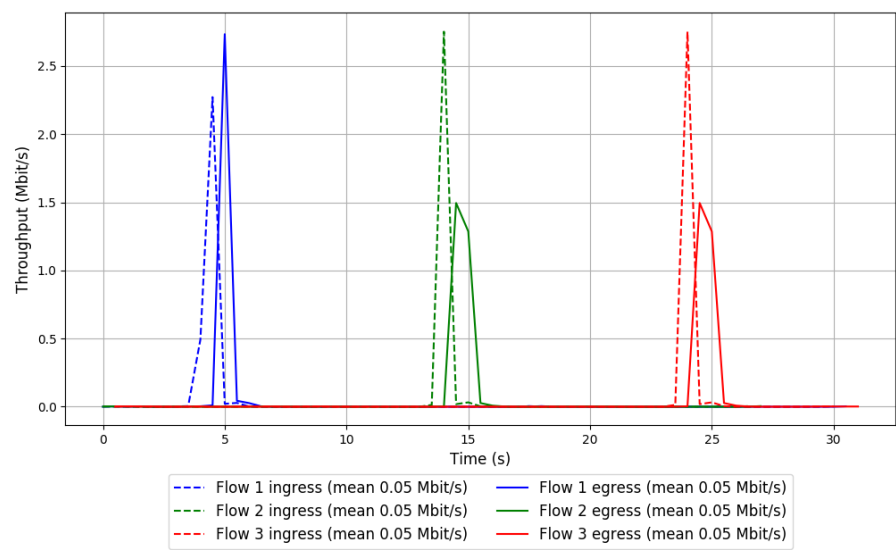


Run 2: Statistics of WebRTC media

Start at: 2018-05-24 16:31:02
End at: 2018-05-24 16:31:32
Local clock offset: 0.106 ms
Remote clock offset: -0.076 ms

Below is generated by plot.py at 2018-05-24 21:54:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 86.950 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.843 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.994 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.828 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-05-24 16:54:48

End at: 2018-05-24 16:55:18

Local clock offset: 0.087 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-05-24 21:54:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 86.889 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.888 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.803 ms

Loss rate: 0.00%

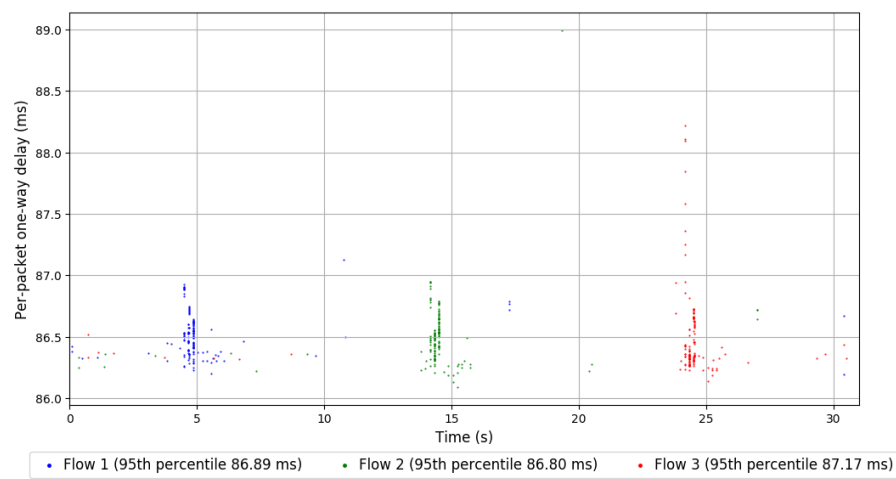
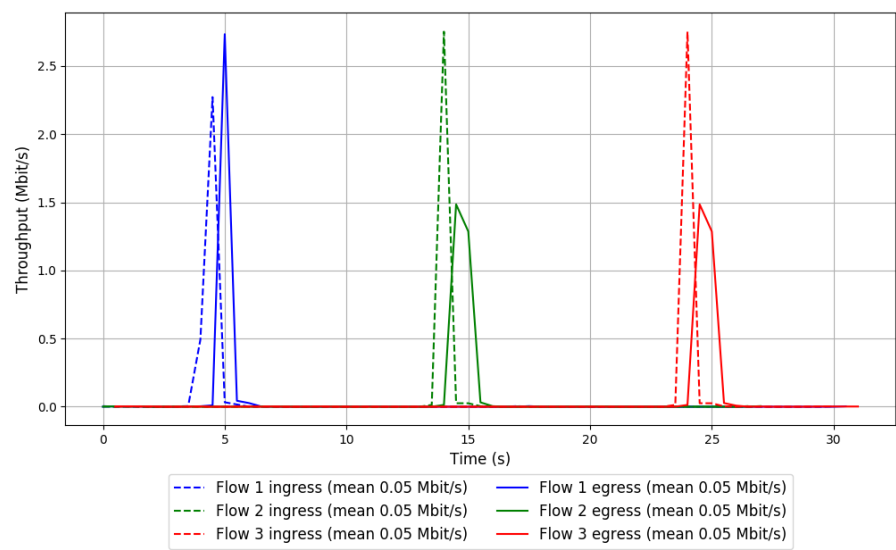
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 87.168 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

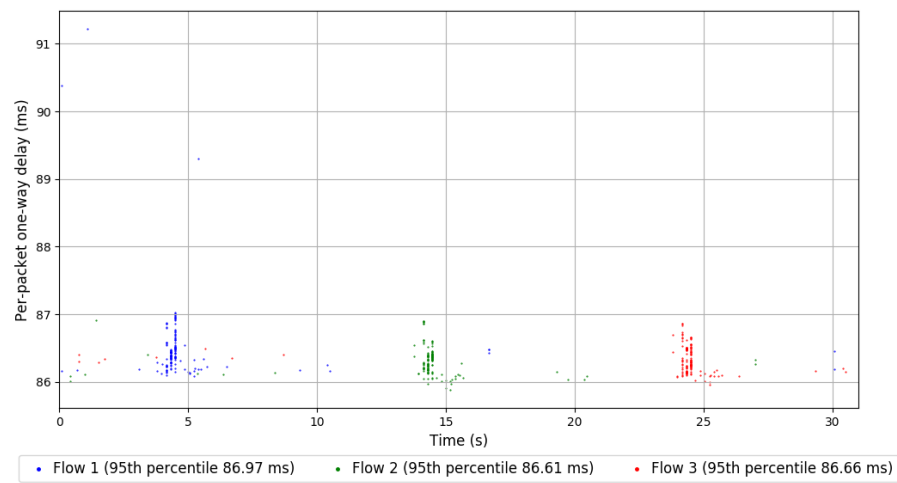
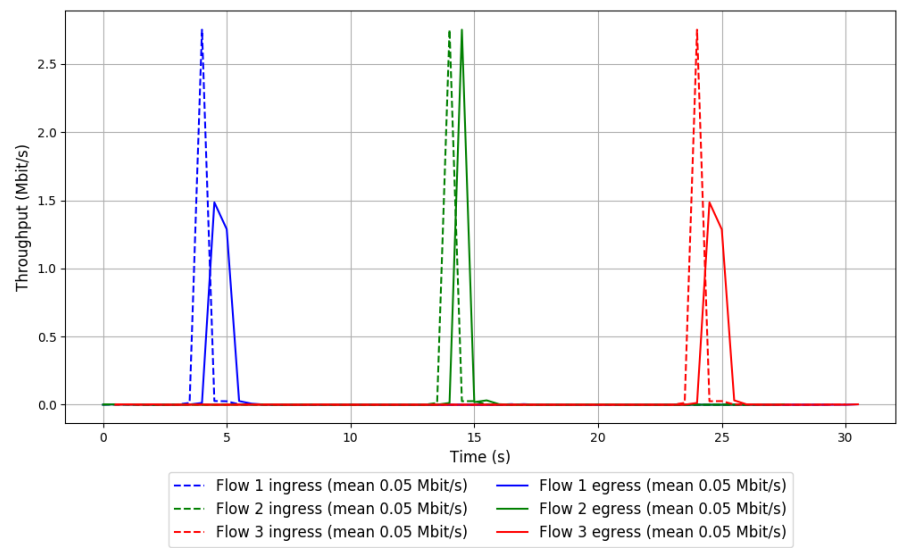


Run 4: Statistics of WebRTC media

Start at: 2018-05-24 17:18:41
End at: 2018-05-24 17:19:11
Local clock offset: -0.065 ms
Remote clock offset: -0.014 ms

Below is generated by plot.py at 2018-05-24 21:54:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 86.862 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.975 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.615 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.662 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-05-24 17:42:16

End at: 2018-05-24 17:42:46

Local clock offset: 0.235 ms

Remote clock offset: 0.034 ms

Below is generated by plot.py at 2018-05-24 21:54:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 87.015 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 87.042 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

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

Loss rate: 0.00%

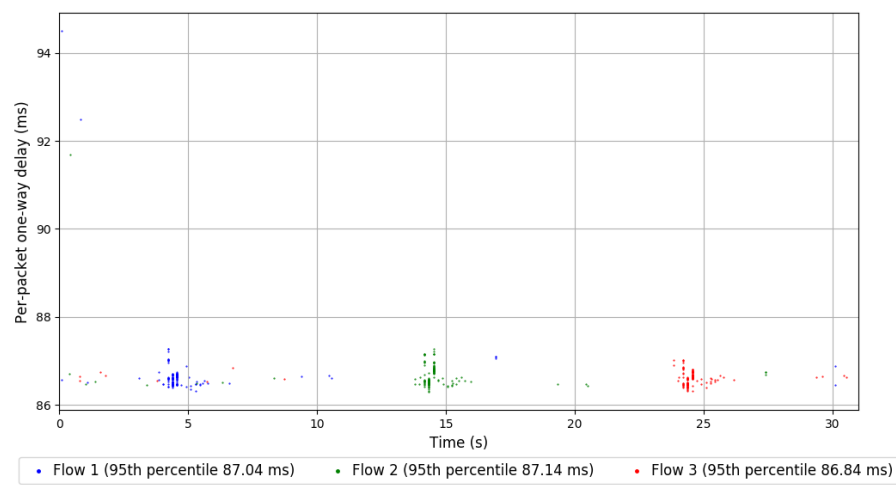
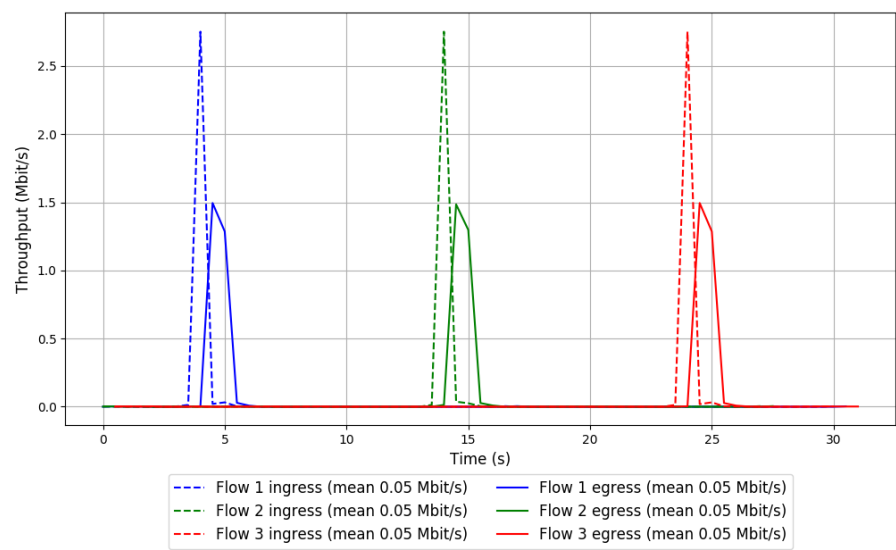
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.842 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-05-24 18:05:23

End at: 2018-05-24 18:05:53

Local clock offset: 0.116 ms

Remote clock offset: 0.216 ms

Below is generated by plot.py at 2018-05-24 21:54:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 87.137 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 87.027 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 87.224 ms

Loss rate: 0.00%

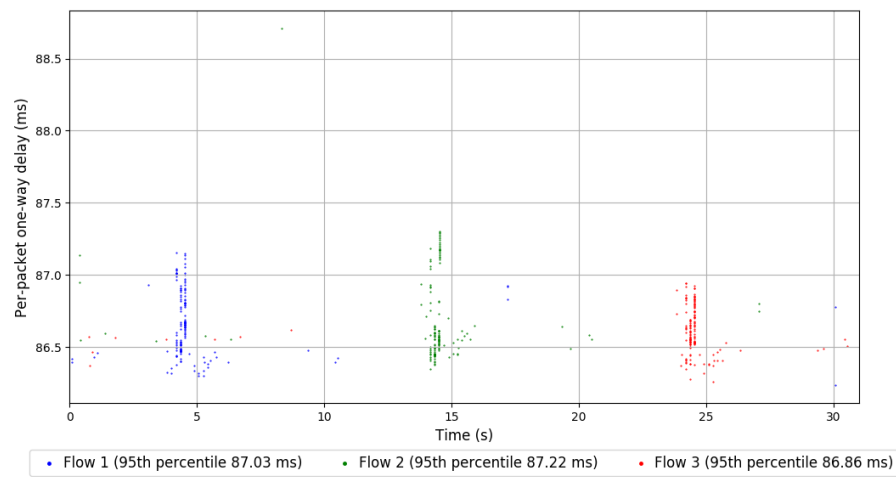
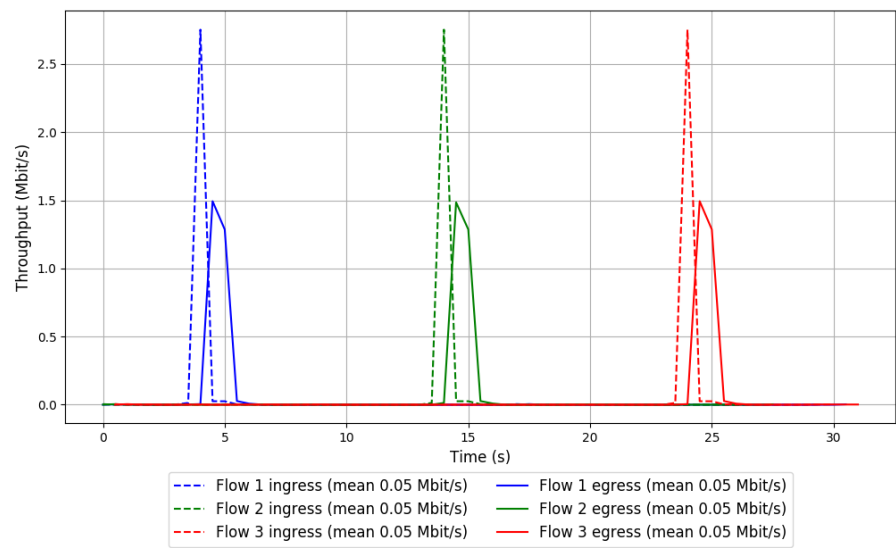
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.863 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-05-24 18:29:12

End at: 2018-05-24 18:29:42

Local clock offset: 0.033 ms

Remote clock offset: 0.389 ms

Below is generated by plot.py at 2018-05-24 21:54:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 86.738 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.724 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.633 ms

Loss rate: 0.00%

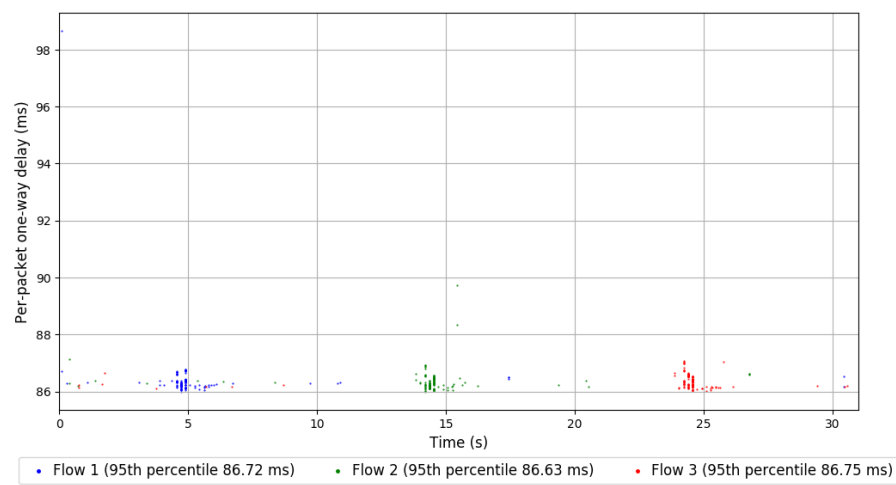
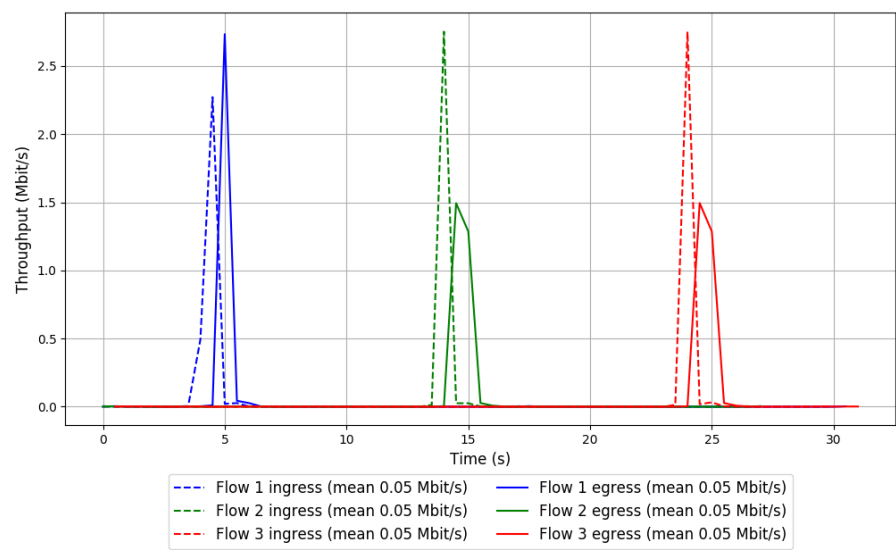
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.750 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-05-24 18:52:19

End at: 2018-05-24 18:52:49

Local clock offset: -0.408 ms

Remote clock offset: 0.419 ms

Below is generated by plot.py at 2018-05-24 21:54:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 86.314 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.352 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.215 ms

Loss rate: 0.00%

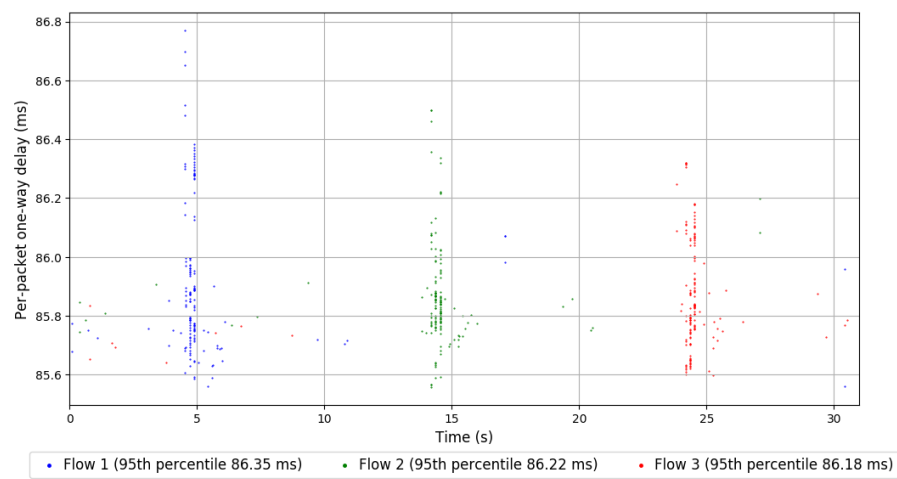
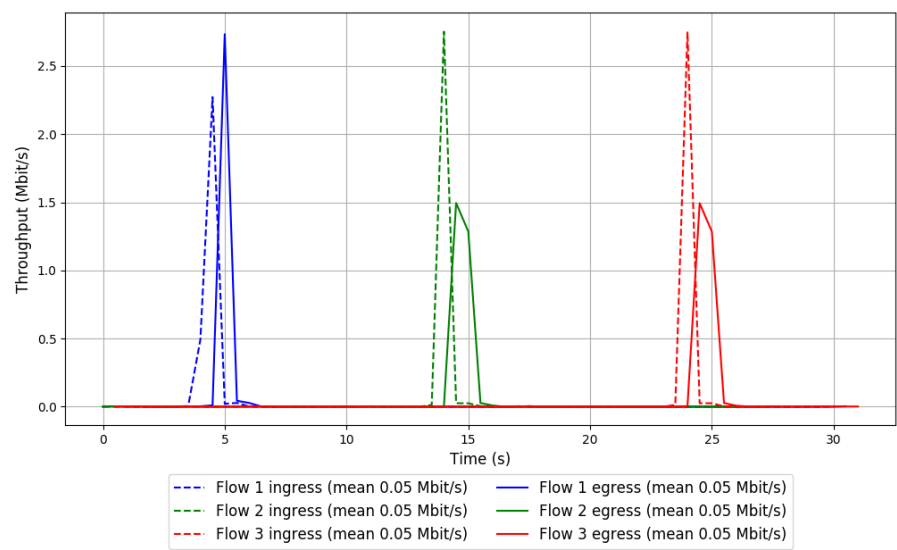
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.179 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-05-24 19:16:08

End at: 2018-05-24 19:16:38

Local clock offset: -0.116 ms

Remote clock offset: 0.523 ms

Below is generated by plot.py at 2018-05-24 21:54:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 87.268 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.445 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 87.366 ms

Loss rate: 0.84%

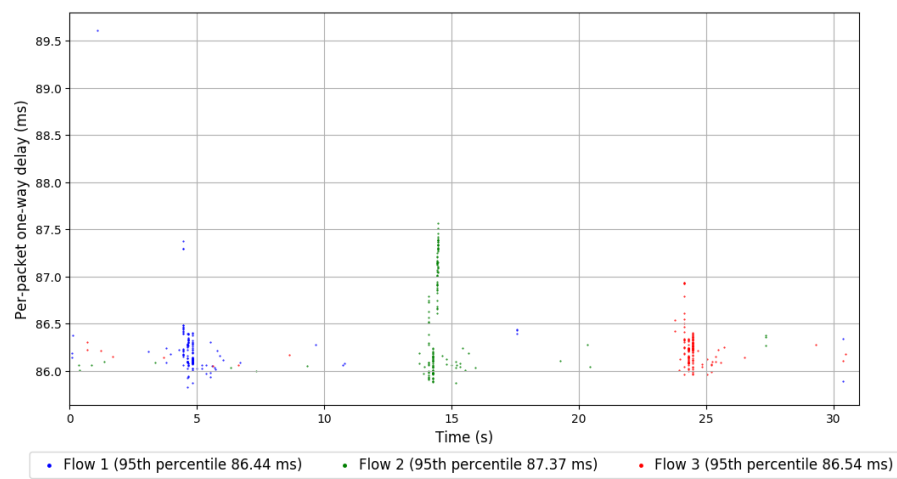
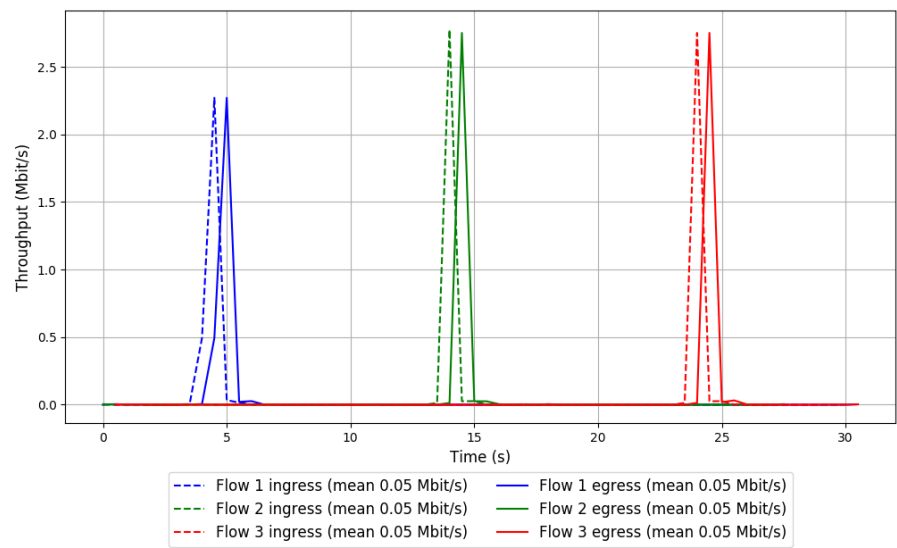
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.542 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-24 19:39:31

End at: 2018-05-24 19:40:01

Local clock offset: -0.212 ms

Remote clock offset: 0.04 ms

Below is generated by plot.py at 2018-05-24 21:54:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 86.544 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.567 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.460 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.542 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

