

Pantheon Report

Generated at 2018-05-23 16:05:18 (UTC).

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

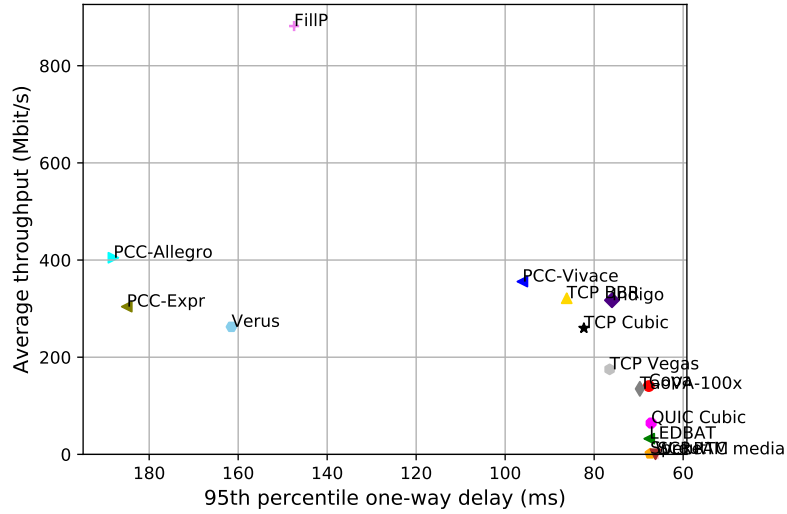
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

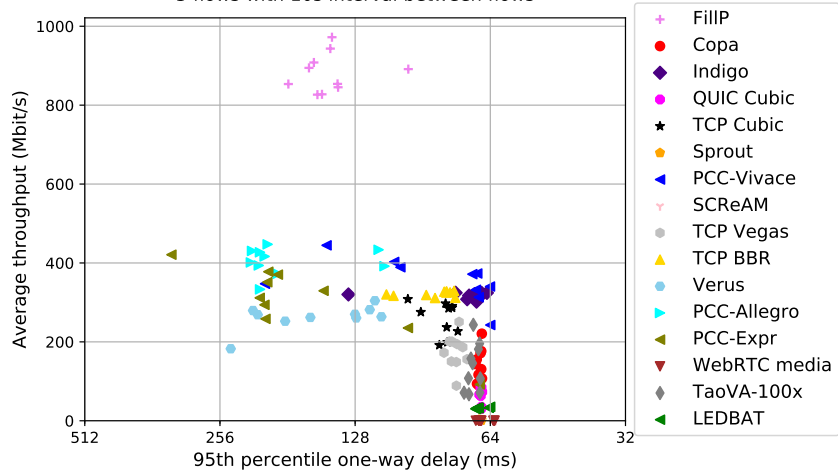
Git summary:

```
branch: master @ 2d1d4407e851ba626e5ca4626a306105793df686
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 Tokyo Ethernet to GCE Iowa Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



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



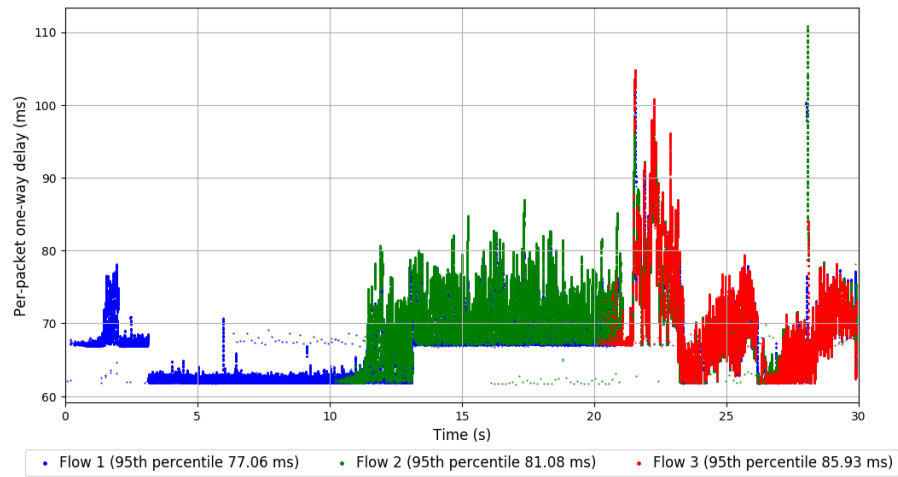
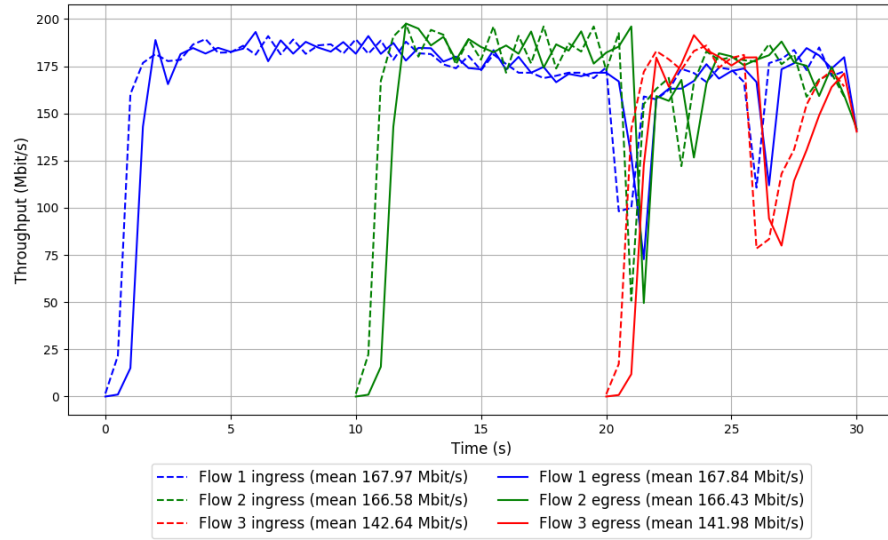
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	164.66	161.47	150.25	83.67	86.12	89.19	0.47	0.67	1.60
Copa	10	59.81	82.76	78.52	67.83	67.16	66.46	0.57	0.71	1.26
TCP Cubic	10	139.51	136.86	89.39	80.75	81.80	79.76	0.49	0.85	2.95
FillP	10	493.67	404.86	365.00	153.58	115.01	79.45	2.78	2.08	2.77
Indigo	10	176.21	152.56	123.65	72.91	75.85	78.00	0.39	0.66	1.58
LEDBAT	10	21.26	13.31	6.81	67.66	67.57	66.93	0.85	1.26	2.64
PCC-Allegro	10	278.17	179.84	22.35	187.81	189.82	188.11	2.63	3.94	4.99
PCC-Expr	10	196.31	137.90	49.86	183.20	139.52	126.91	2.82	2.35	3.47
QUIC Cubic	10	33.87	31.63	29.39	65.68	65.86	65.99	0.39	0.77	0.94
SCReAM	10	0.22	0.22	0.22	64.29	64.80	64.71	0.38	0.68	1.21
Sprout	10	0.61	0.92	0.61	67.41	66.21	66.38	0.52	0.60	0.91
TaoVA-100x	10	89.82	72.94	41.49	69.44	68.66	70.92	0.43	0.68	1.00
TCP Vegas	10	87.64	73.67	116.81	74.07	73.51	75.44	0.34	0.68	1.48
Verus	10	153.76	130.30	69.25	170.02	152.51	134.62	1.38	0.85	2.01
PCC-Vivace	10	223.21	174.36	51.62	101.67	74.91	66.11	0.56	0.76	2.30
WebRTC media	10	0.05	0.05	0.05	65.19	65.58	64.75	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-05-23 10:11:50
End at: 2018-05-23 10:12:20
Local clock offset: -0.259 ms
Remote clock offset: -0.128 ms

Below is generated by plot.py at 2018-05-23 14:07:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 325.07 Mbit/s
95th percentile per-packet one-way delay: 80.221 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 167.84 Mbit/s
95th percentile per-packet one-way delay: 77.058 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 166.43 Mbit/s
95th percentile per-packet one-way delay: 81.081 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 141.98 Mbit/s
95th percentile per-packet one-way delay: 85.927 ms
Loss rate: 1.82%

Run 1: Report of TCP BBR — Data Link

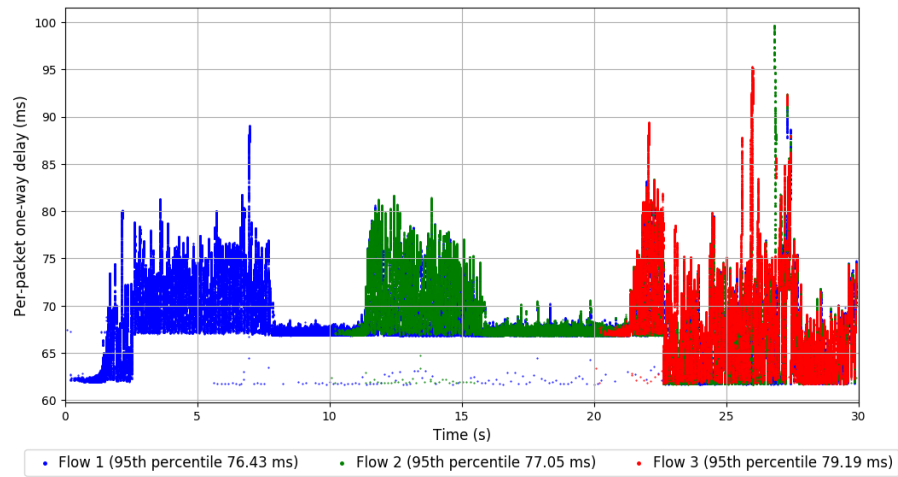
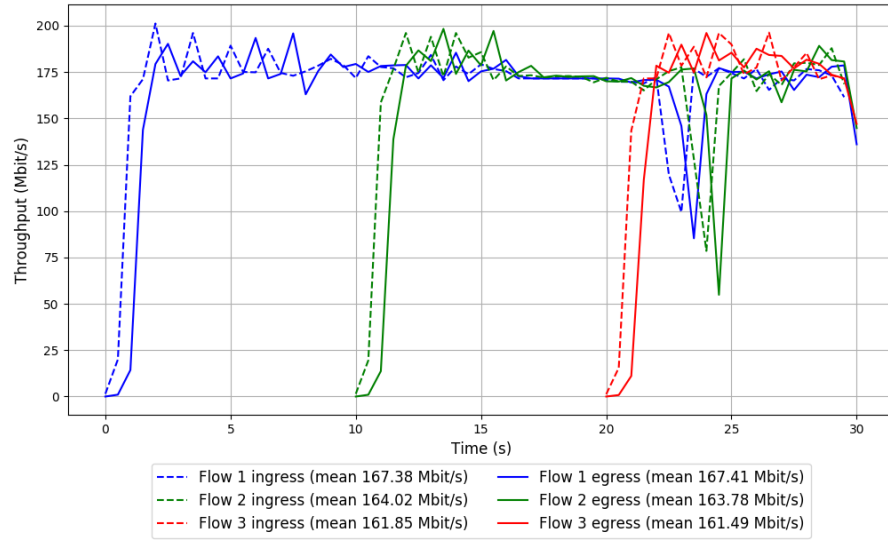


Run 2: Statistics of TCP BBR

Start at: 2018-05-23 10:34:00
End at: 2018-05-23 10:34:30
Local clock offset: -0.284 ms
Remote clock offset: -0.247 ms

Below is generated by plot.py at 2018-05-23 14:07:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 329.39 Mbit/s
95th percentile per-packet one-way delay: 77.032 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 167.41 Mbit/s
95th percentile per-packet one-way delay: 76.432 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 163.78 Mbit/s
95th percentile per-packet one-way delay: 77.053 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 161.49 Mbit/s
95th percentile per-packet one-way delay: 79.187 ms
Loss rate: 1.52%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-05-23 10:56:14

End at: 2018-05-23 10:56:44

Local clock offset: -0.049 ms

Remote clock offset: 0.273 ms

Below is generated by plot.py at 2018-05-23 14:07:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 318.81 Mbit/s

95th percentile per-packet one-way delay: 88.877 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 162.96 Mbit/s

95th percentile per-packet one-way delay: 85.485 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 159.53 Mbit/s

95th percentile per-packet one-way delay: 87.963 ms

Loss rate: 0.73%

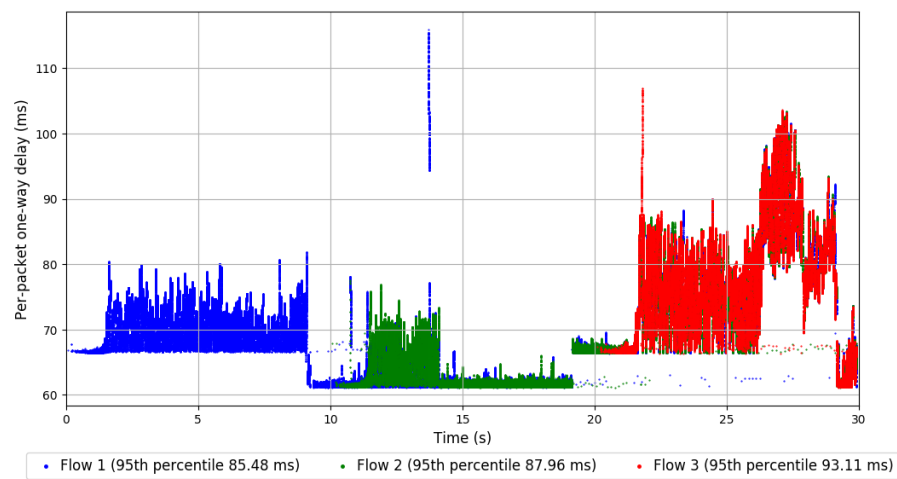
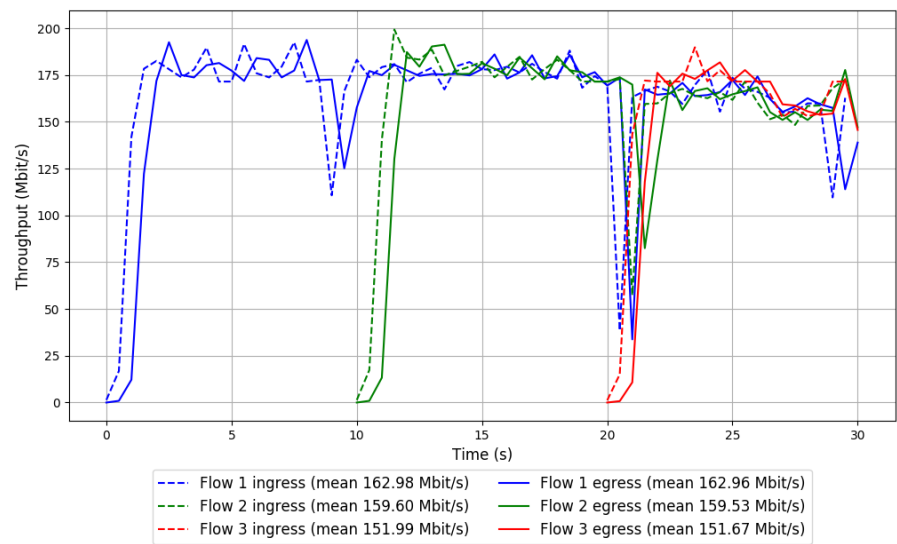
-- Flow 3:

Average throughput: 151.67 Mbit/s

95th percentile per-packet one-way delay: 93.111 ms

Loss rate: 1.62%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-05-23 11:18:50

End at: 2018-05-23 11:19:20

Local clock offset: -0.063 ms

Remote clock offset: 0.045 ms

Below is generated by plot.py at 2018-05-23 14:07:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 328.15 Mbit/s

95th percentile per-packet one-way delay: 80.109 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 165.65 Mbit/s

95th percentile per-packet one-way delay: 78.767 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 168.18 Mbit/s

95th percentile per-packet one-way delay: 80.389 ms

Loss rate: 0.73%

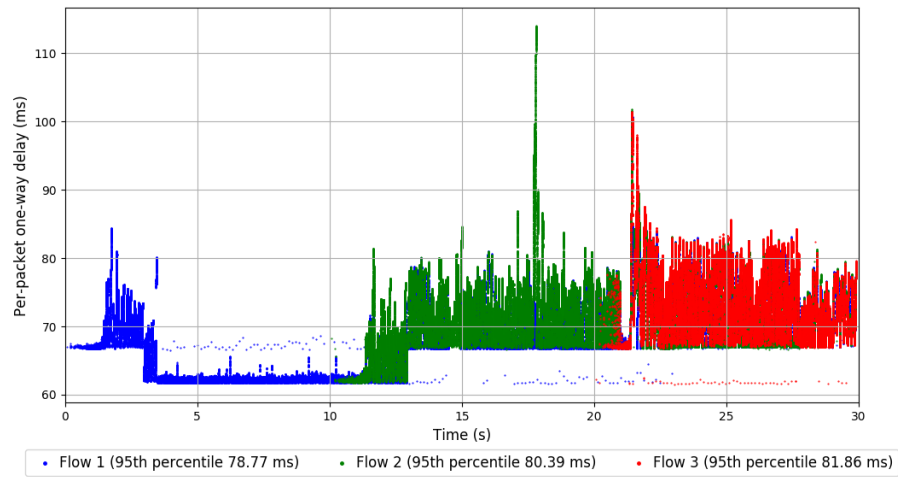
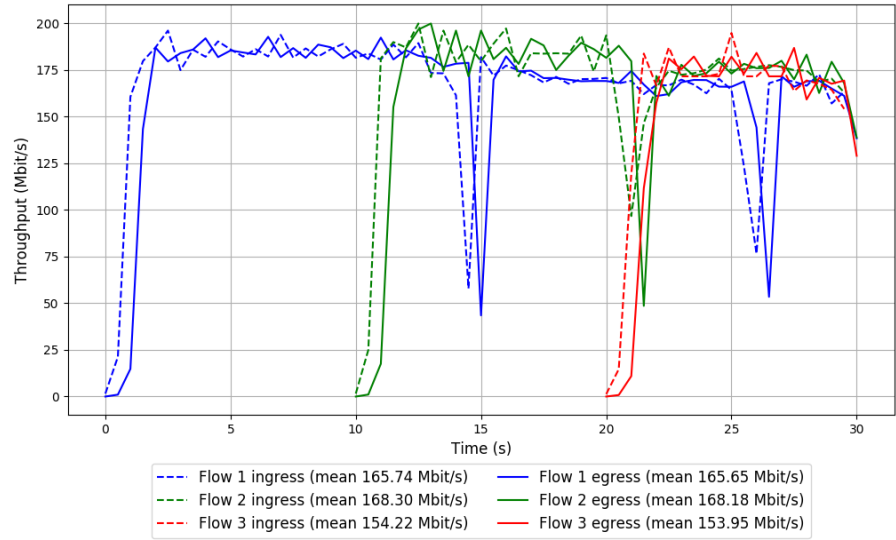
-- Flow 3:

Average throughput: 153.95 Mbit/s

95th percentile per-packet one-way delay: 81.863 ms

Loss rate: 1.43%

Run 4: Report of TCP BBR — Data Link

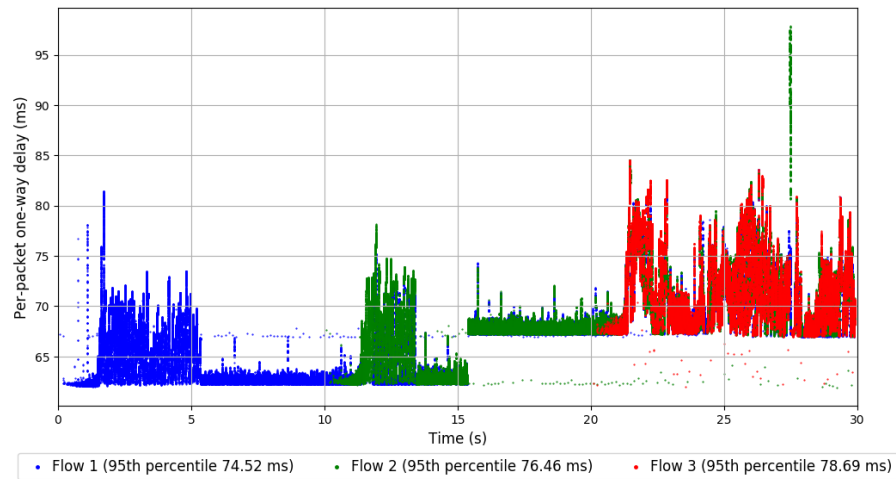
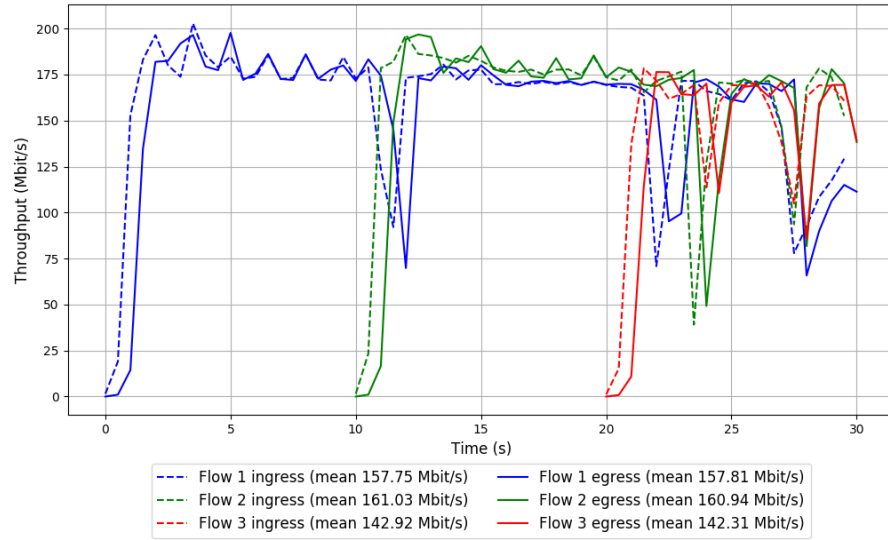


Run 5: Statistics of TCP BBR

Start at: 2018-05-23 11:41:18
End at: 2018-05-23 11:41:48
Local clock offset: -0.099 ms
Remote clock offset: -0.241 ms

Below is generated by plot.py at 2018-05-23 14:07:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 311.61 Mbit/s
95th percentile per-packet one-way delay: 76.582 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 157.81 Mbit/s
95th percentile per-packet one-way delay: 74.522 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 160.94 Mbit/s
95th percentile per-packet one-way delay: 76.460 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 142.31 Mbit/s
95th percentile per-packet one-way delay: 78.691 ms
Loss rate: 1.67%

Run 5: Report of TCP BBR — Data Link

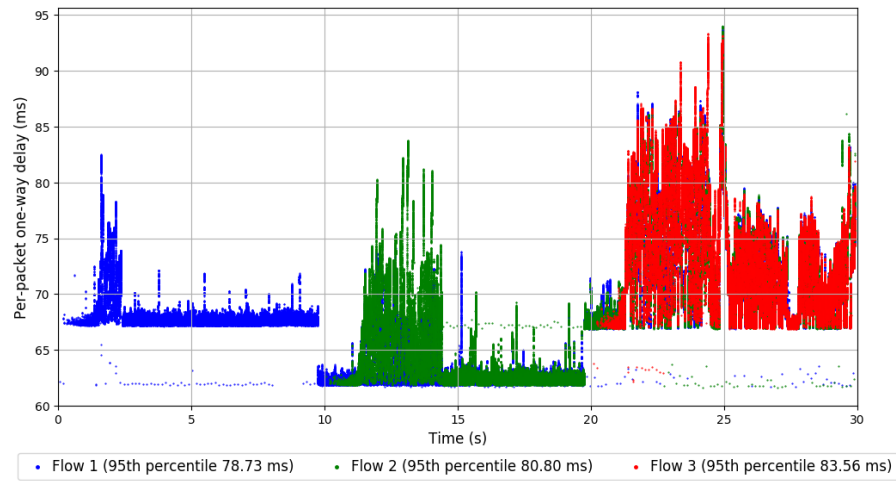
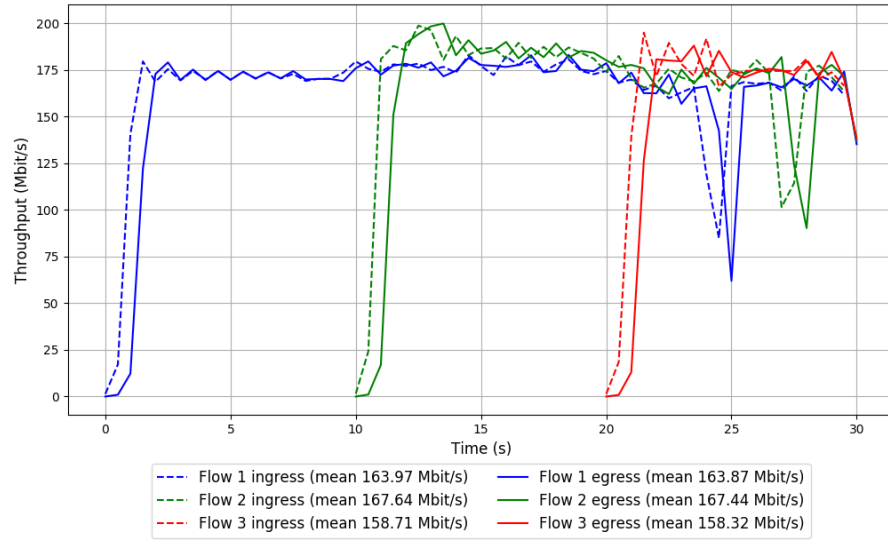


Run 6: Statistics of TCP BBR

Start at: 2018-05-23 12:03:23
End at: 2018-05-23 12:03:53
Local clock offset: -0.246 ms
Remote clock offset: -0.263 ms

Below is generated by plot.py at 2018-05-23 14:07:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 327.22 Mbit/s
95th percentile per-packet one-way delay: 81.028 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 163.87 Mbit/s
95th percentile per-packet one-way delay: 78.729 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 167.44 Mbit/s
95th percentile per-packet one-way delay: 80.801 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 158.32 Mbit/s
95th percentile per-packet one-way delay: 83.561 ms
Loss rate: 1.54%

Run 6: Report of TCP BBR — Data Link

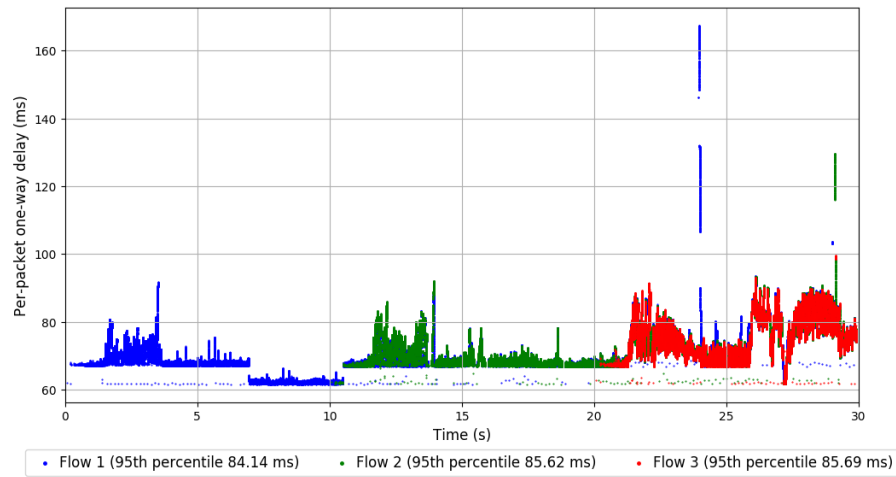
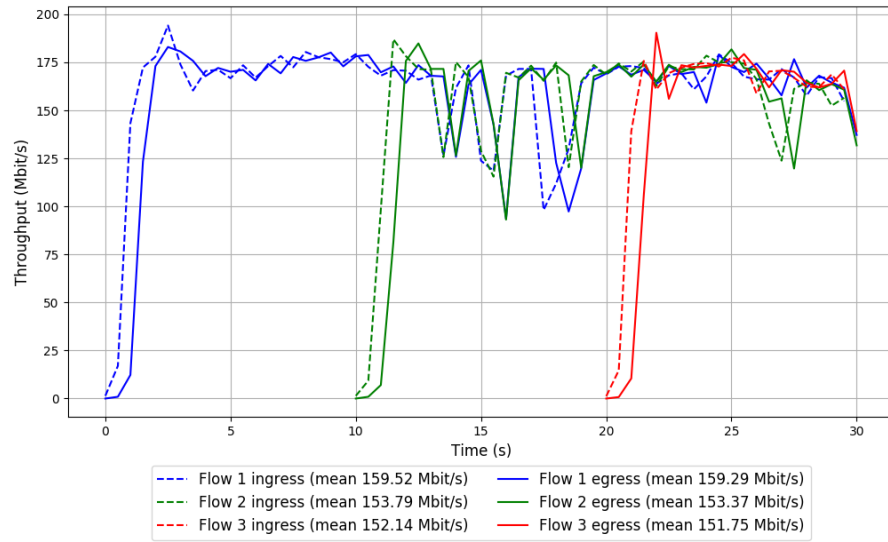


Run 7: Statistics of TCP BBR

Start at: 2018-05-23 12:25:46
End at: 2018-05-23 12:26:16
Local clock offset: -0.057 ms
Remote clock offset: -0.154 ms

Below is generated by plot.py at 2018-05-23 14:07:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 311.15 Mbit/s
95th percentile per-packet one-way delay: 84.966 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 159.29 Mbit/s
95th percentile per-packet one-way delay: 84.145 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 153.37 Mbit/s
95th percentile per-packet one-way delay: 85.617 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 151.75 Mbit/s
95th percentile per-packet one-way delay: 85.693 ms
Loss rate: 1.50%

Run 7: Report of TCP BBR — Data Link

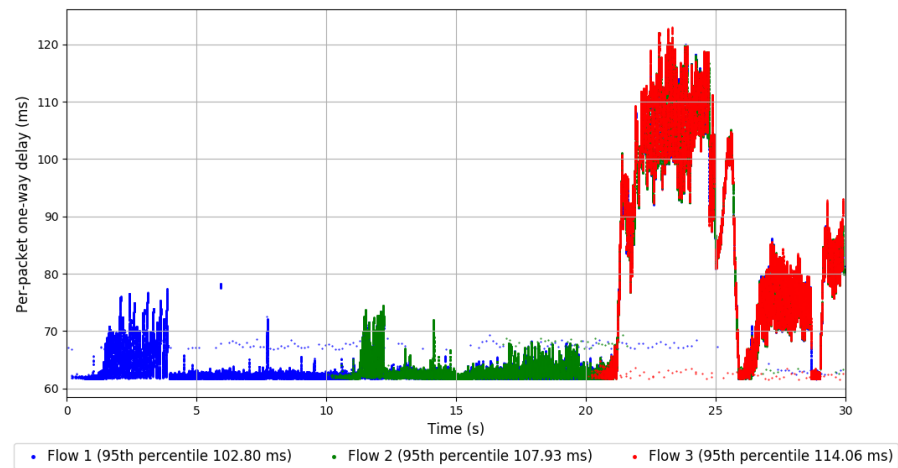
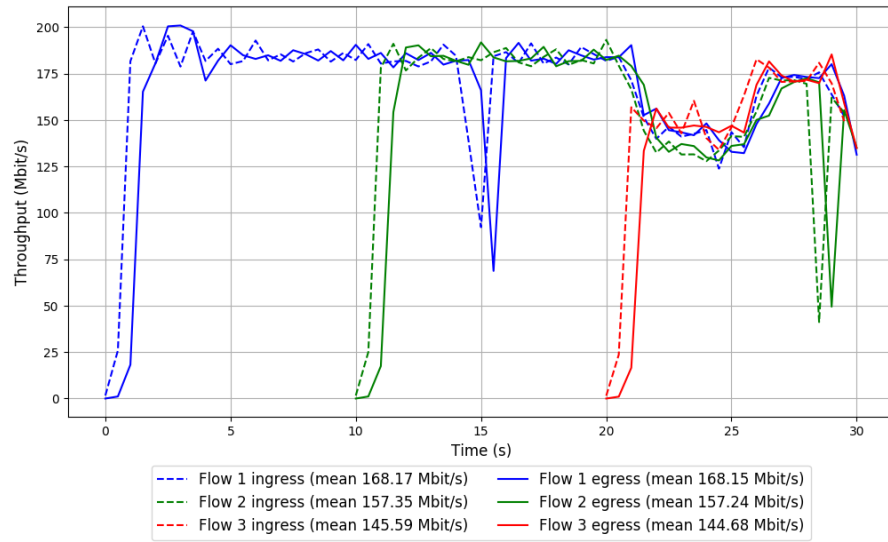


Run 8: Statistics of TCP BBR

Start at: 2018-05-23 12:48:09
End at: 2018-05-23 12:48:39
Local clock offset: -0.002 ms
Remote clock offset: -0.109 ms

Below is generated by plot.py at 2018-05-23 14:07:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 320.31 Mbit/s
95th percentile per-packet one-way delay: 109.025 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 168.15 Mbit/s
95th percentile per-packet one-way delay: 102.803 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 157.24 Mbit/s
95th percentile per-packet one-way delay: 107.928 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 144.68 Mbit/s
95th percentile per-packet one-way delay: 114.058 ms
Loss rate: 1.69%

Run 8: Report of TCP BBR — Data Link

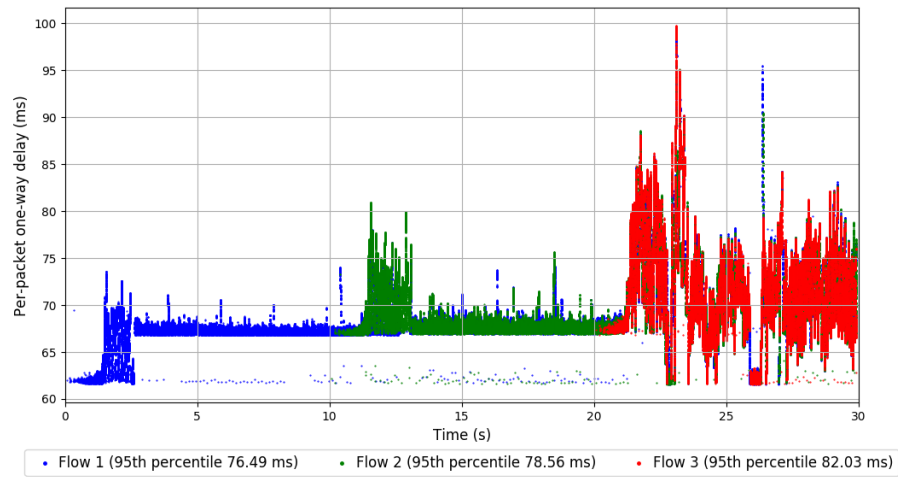
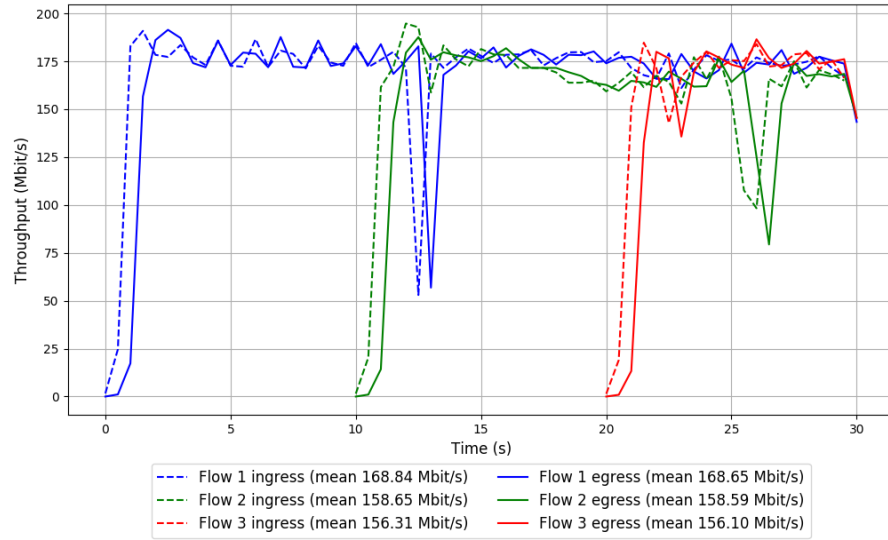


Run 9: Statistics of TCP BBR

Start at: 2018-05-23 13:10:40
End at: 2018-05-23 13:11:10
Local clock offset: -0.103 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2018-05-23 14:14:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 325.45 Mbit/s
95th percentile per-packet one-way delay: 78.667 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 168.65 Mbit/s
95th percentile per-packet one-way delay: 76.494 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 158.59 Mbit/s
95th percentile per-packet one-way delay: 78.561 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 156.10 Mbit/s
95th percentile per-packet one-way delay: 82.033 ms
Loss rate: 1.44%

Run 9: Report of TCP BBR — Data Link

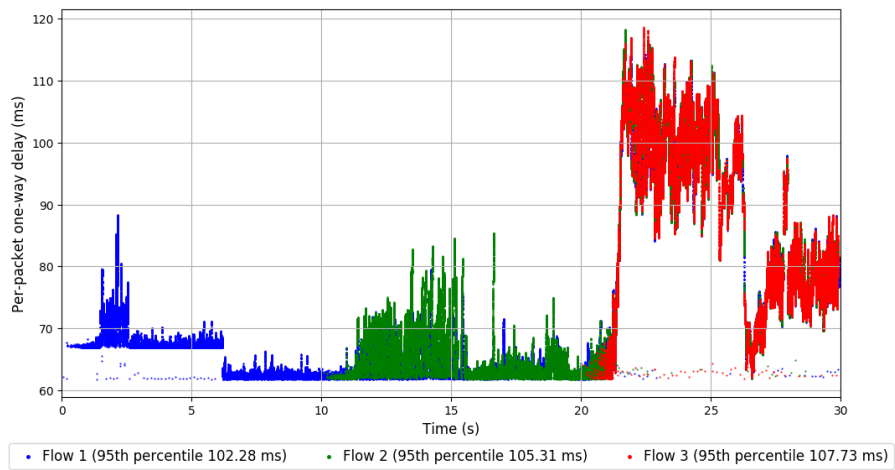
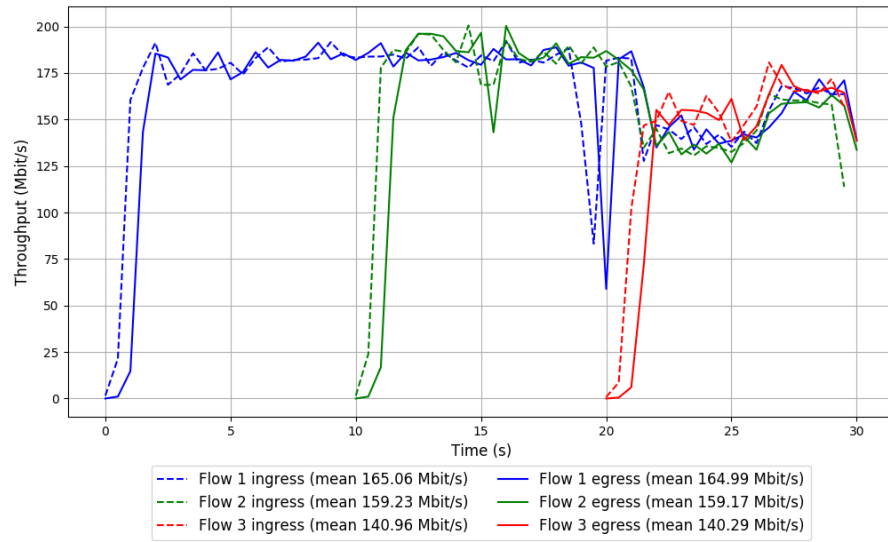


Run 10: Statistics of TCP BBR

Start at: 2018-05-23 13:32:47
End at: 2018-05-23 13:33:17
Local clock offset: 0.062 ms
Remote clock offset: -0.328 ms

Below is generated by plot.py at 2018-05-23 14:14:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 316.78 Mbit/s
95th percentile per-packet one-way delay: 105.123 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 164.99 Mbit/s
95th percentile per-packet one-way delay: 102.276 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 159.17 Mbit/s
95th percentile per-packet one-way delay: 105.309 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 140.29 Mbit/s
95th percentile per-packet one-way delay: 107.728 ms
Loss rate: 1.75%

Run 10: Report of TCP BBR — Data Link

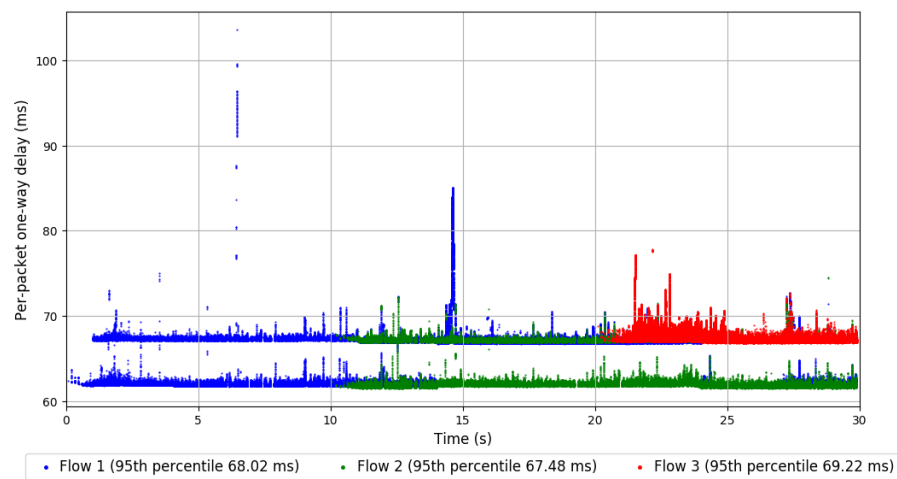
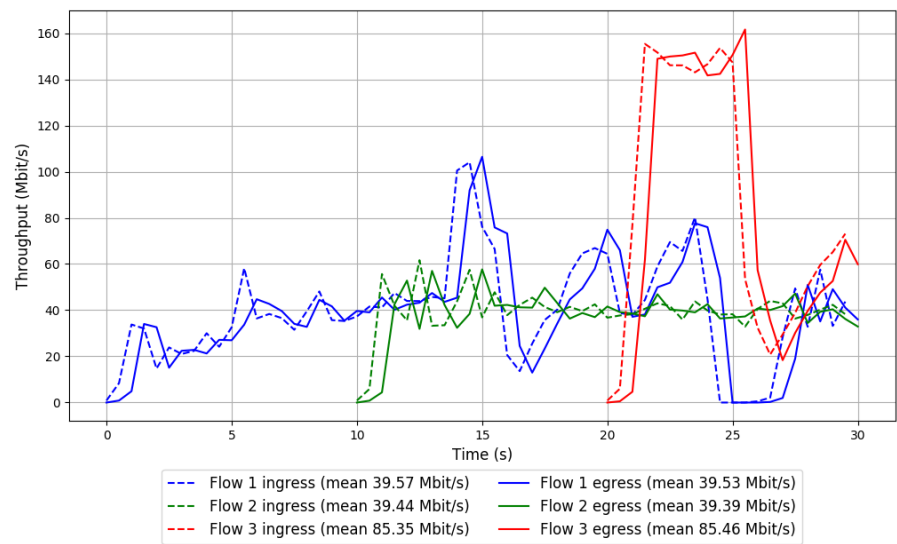


Run 1: Statistics of Copa

Start at: 2018-05-23 10:26:52
End at: 2018-05-23 10:27:22
Local clock offset: -0.247 ms
Remote clock offset: -0.281 ms

Below is generated by plot.py at 2018-05-23 14:14:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.73 Mbit/s
95th percentile per-packet one-way delay: 68.525 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 39.53 Mbit/s
95th percentile per-packet one-way delay: 68.021 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 39.39 Mbit/s
95th percentile per-packet one-way delay: 67.476 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 85.46 Mbit/s
95th percentile per-packet one-way delay: 69.220 ms
Loss rate: 1.24%

Run 1: Report of Copa — Data Link

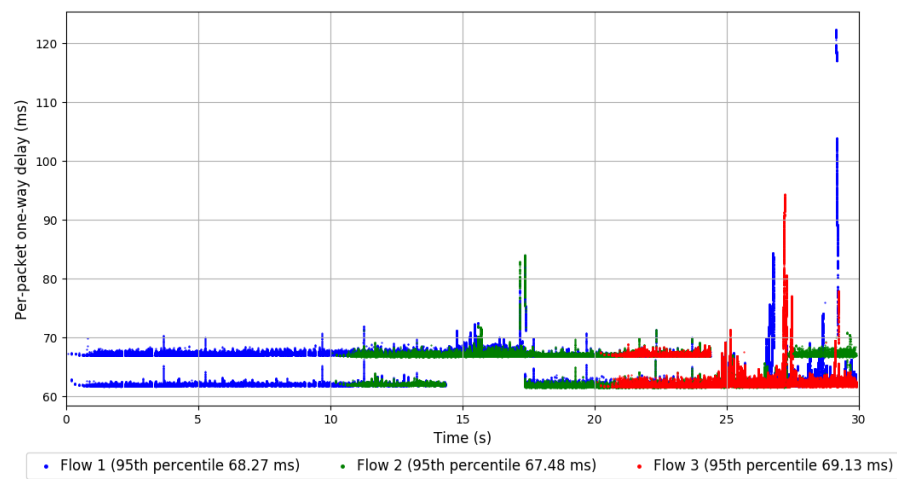
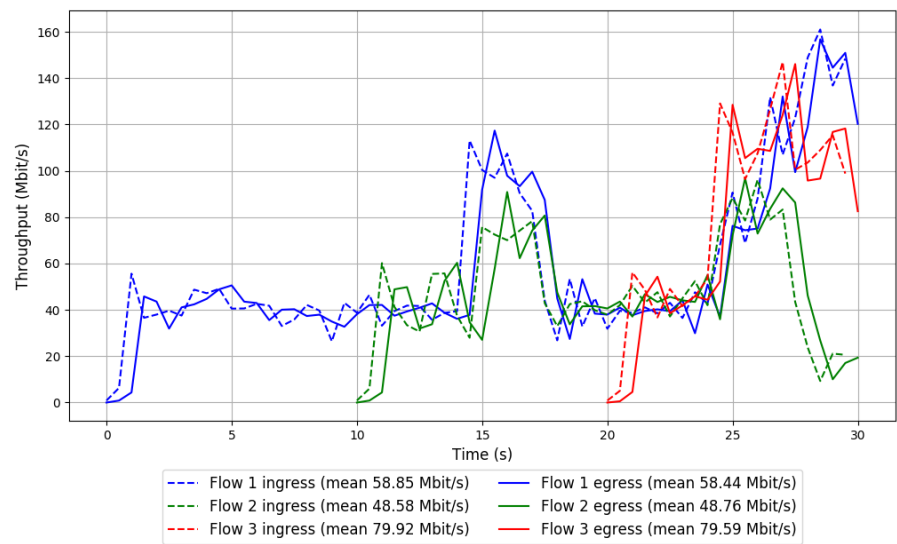


Run 2: Statistics of Copa

Start at: 2018-05-23 10:49:08
End at: 2018-05-23 10:49:38
Local clock offset: -0.084 ms
Remote clock offset: -0.165 ms

Below is generated by plot.py at 2018-05-23 14:14:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 116.99 Mbit/s
95th percentile per-packet one-way delay: 67.982 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 58.44 Mbit/s
95th percentile per-packet one-way delay: 68.269 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 48.76 Mbit/s
95th percentile per-packet one-way delay: 67.479 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 79.59 Mbit/s
95th percentile per-packet one-way delay: 69.126 ms
Loss rate: 1.70%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-05-23 11:11:37

End at: 2018-05-23 11:12:07

Local clock offset: -0.059 ms

Remote clock offset: -0.16 ms

Below is generated by plot.py at 2018-05-23 14:14:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 143.68 Mbit/s

95th percentile per-packet one-way delay: 69.043 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 49.87 Mbit/s

95th percentile per-packet one-way delay: 67.977 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 120.63 Mbit/s

95th percentile per-packet one-way delay: 69.648 ms

Loss rate: 0.76%

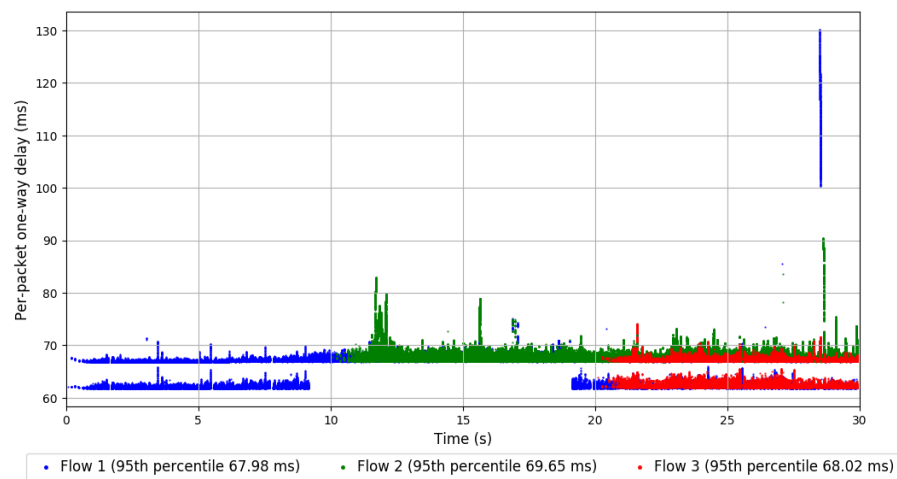
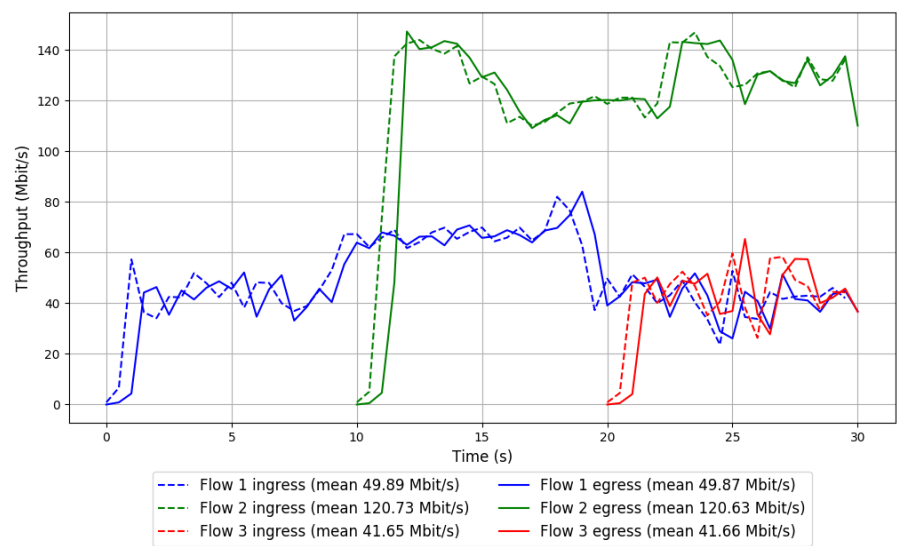
-- Flow 3:

Average throughput: 41.66 Mbit/s

95th percentile per-packet one-way delay: 68.018 ms

Loss rate: 1.30%

Run 3: Report of Copa — Data Link

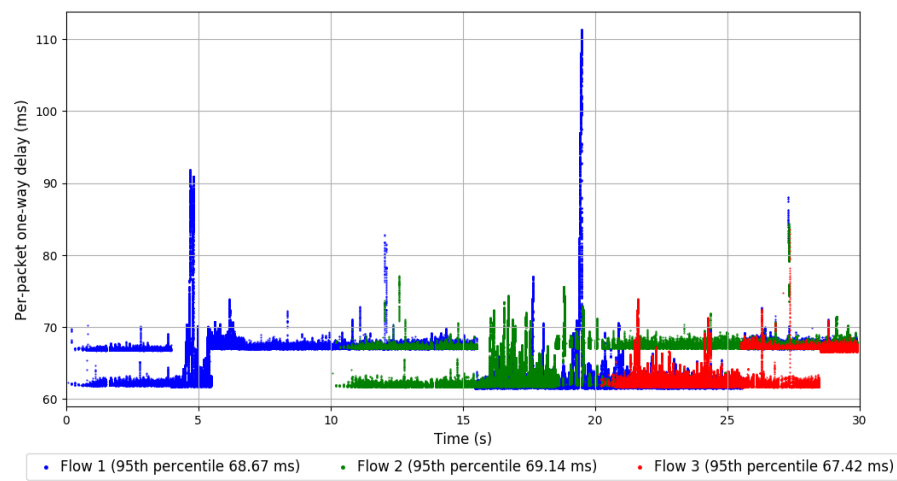
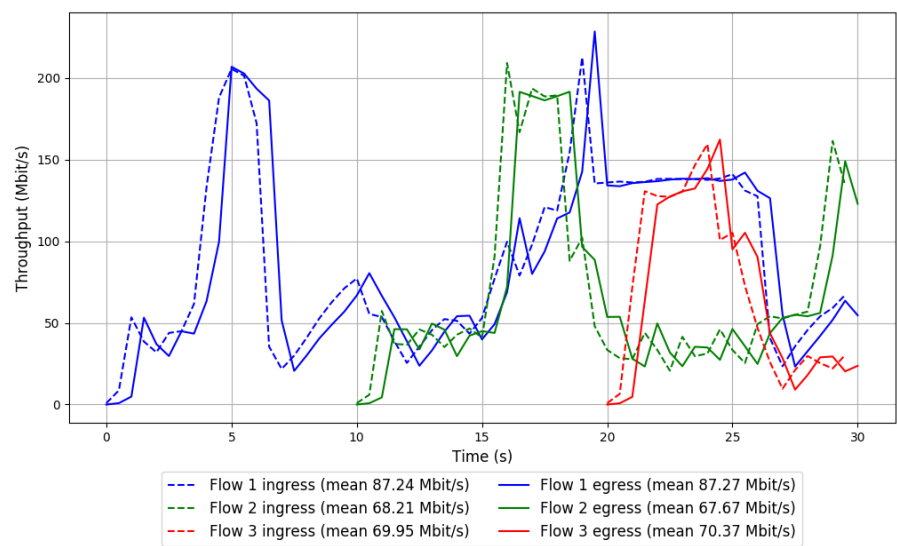


Run 4: Statistics of Copa

Start at: 2018-05-23 11:34:07
End at: 2018-05-23 11:34:37
Local clock offset: -0.126 ms
Remote clock offset: -0.076 ms

Below is generated by plot.py at 2018-05-23 14:14:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 155.32 Mbit/s
95th percentile per-packet one-way delay: 68.612 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 87.27 Mbit/s
95th percentile per-packet one-way delay: 68.674 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 67.67 Mbit/s
95th percentile per-packet one-way delay: 69.135 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 70.37 Mbit/s
95th percentile per-packet one-way delay: 67.422 ms
Loss rate: 0.74%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-05-23 11:56:16

End at: 2018-05-23 11:56:46

Local clock offset: -0.202 ms

Remote clock offset: 0.342 ms

Below is generated by plot.py at 2018-05-23 14:14:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 171.41 Mbit/s

95th percentile per-packet one-way delay: 67.299 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 69.11 Mbit/s

95th percentile per-packet one-way delay: 67.902 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 106.84 Mbit/s

95th percentile per-packet one-way delay: 66.818 ms

Loss rate: 0.83%

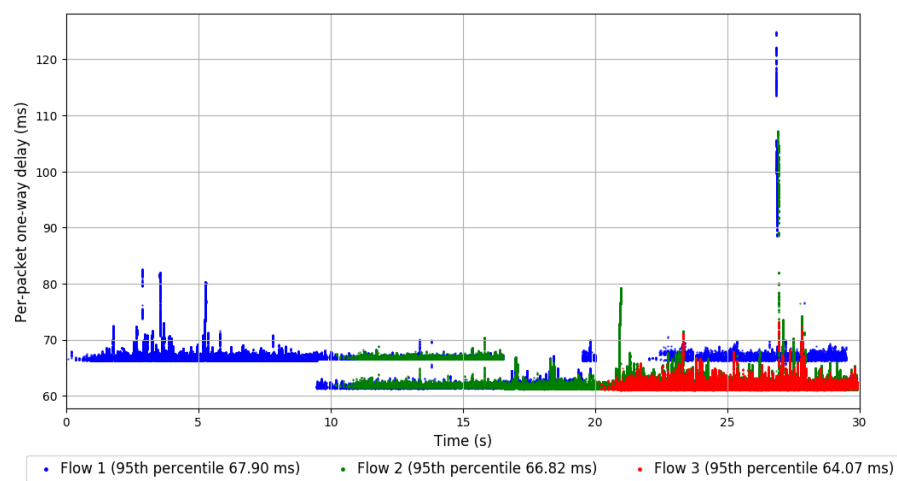
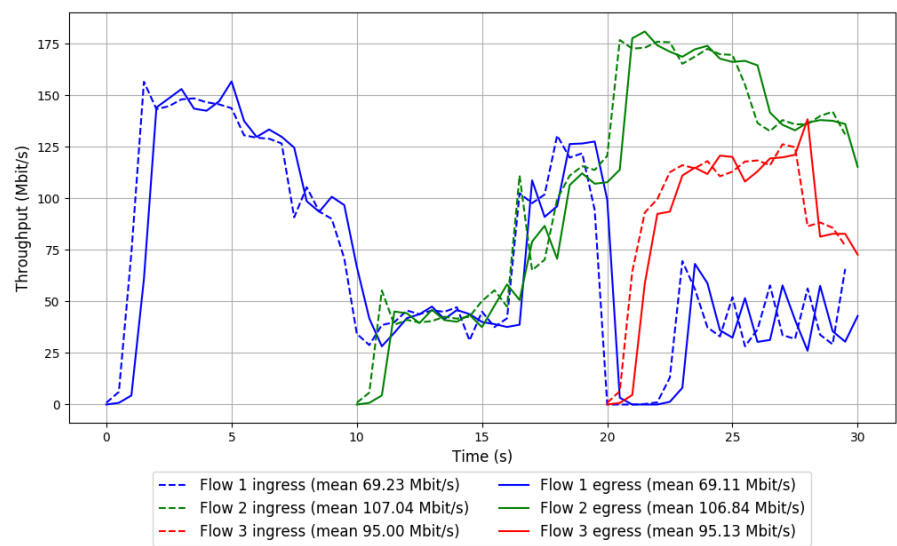
-- Flow 3:

Average throughput: 95.13 Mbit/s

95th percentile per-packet one-way delay: 64.073 ms

Loss rate: 1.17%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-05-23 12:18:25

End at: 2018-05-23 12:18:55

Local clock offset: -0.222 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2018-05-23 14:14:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 130.86 Mbit/s

95th percentile per-packet one-way delay: 67.050 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 67.30 Mbit/s

95th percentile per-packet one-way delay: 66.993 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 75.22 Mbit/s

95th percentile per-packet one-way delay: 67.016 ms

Loss rate: 0.29%

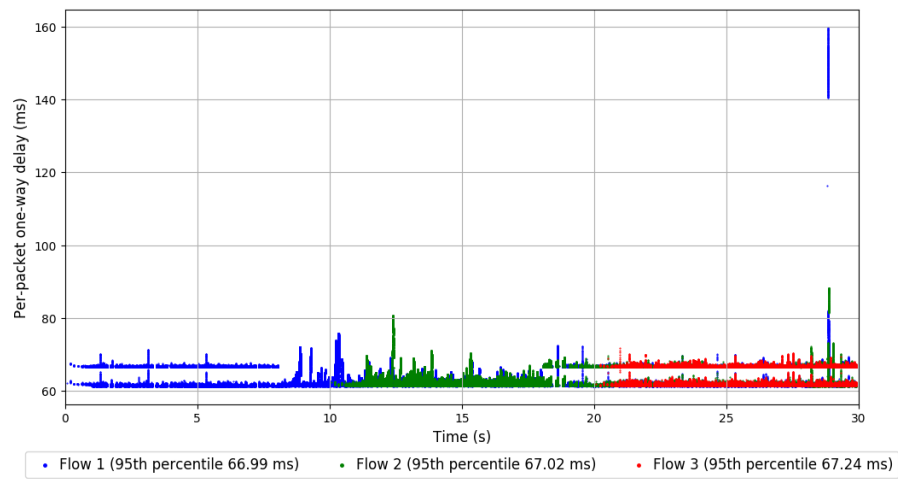
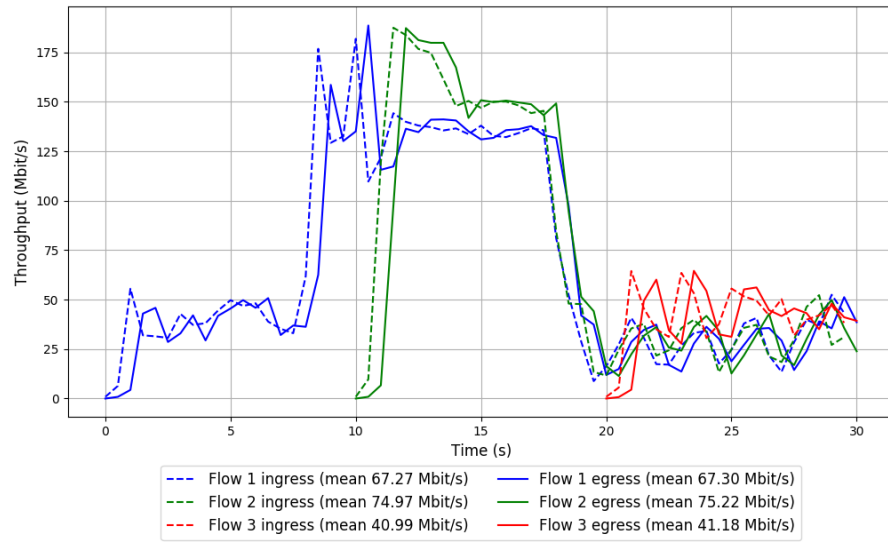
-- Flow 3:

Average throughput: 41.18 Mbit/s

95th percentile per-packet one-way delay: 67.244 ms

Loss rate: 0.79%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-05-23 12:40:54

End at: 2018-05-23 12:41:24

Local clock offset: 0.069 ms

Remote clock offset: 0.344 ms

Below is generated by plot.py at 2018-05-23 14:15:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 107.33 Mbit/s

95th percentile per-packet one-way delay: 66.785 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 36.73 Mbit/s

95th percentile per-packet one-way delay: 66.998 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 54.93 Mbit/s

95th percentile per-packet one-way delay: 66.415 ms

Loss rate: 0.17%

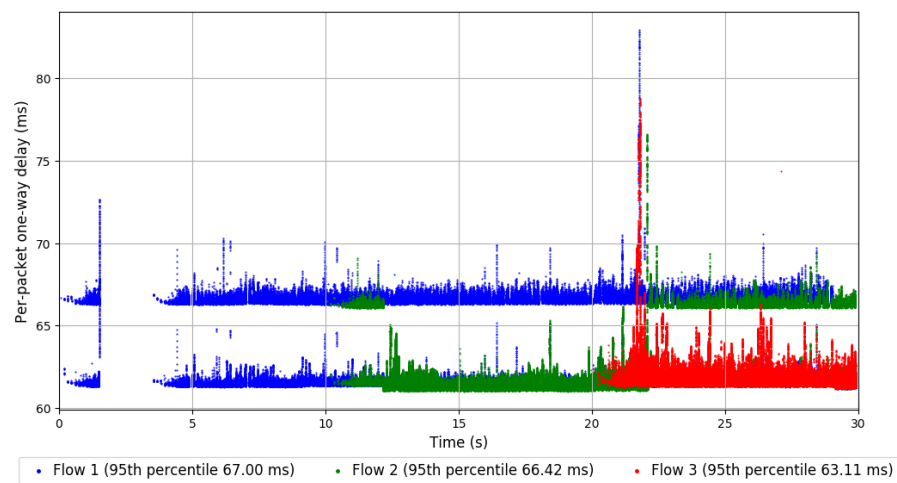
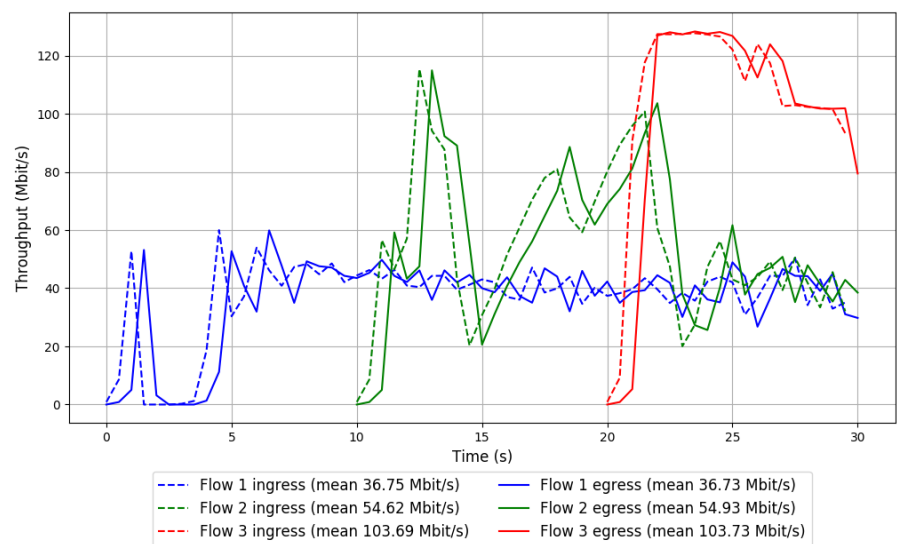
-- Flow 3:

Average throughput: 103.73 Mbit/s

95th percentile per-packet one-way delay: 63.112 ms

Loss rate: 1.21%

Run 7: Report of Copa — Data Link

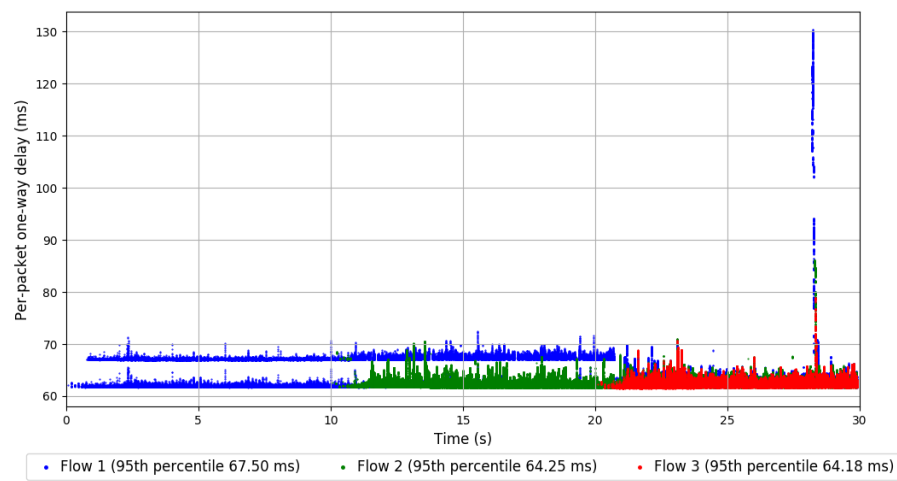
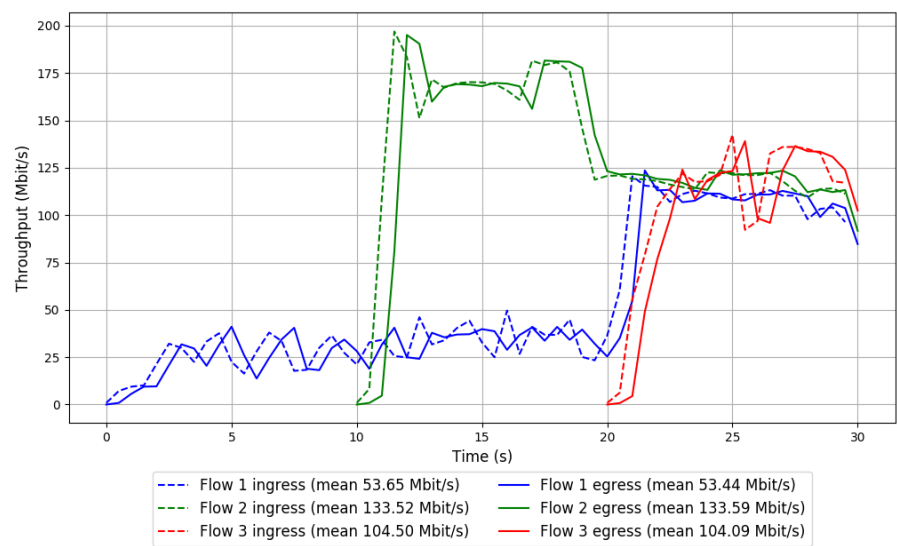


Run 8: Statistics of Copa

Start at: 2018-05-23 13:03:22
End at: 2018-05-23 13:03:52
Local clock offset: -0.116 ms
Remote clock offset: -0.131 ms

Below is generated by plot.py at 2018-05-23 14:18:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 176.45 Mbit/s
95th percentile per-packet one-way delay: 67.047 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 53.44 Mbit/s
95th percentile per-packet one-way delay: 67.498 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 133.59 Mbit/s
95th percentile per-packet one-way delay: 64.251 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 104.09 Mbit/s
95th percentile per-packet one-way delay: 64.178 ms
Loss rate: 1.63%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-05-23 13:25:46

End at: 2018-05-23 13:26:16

Local clock offset: -0.081 ms

Remote clock offset: -0.47 ms

Below is generated by plot.py at 2018-05-23 14:18:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.68 Mbit/s

95th percentile per-packet one-way delay: 67.907 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 35.85 Mbit/s

95th percentile per-packet one-way delay: 67.796 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 57.27 Mbit/s

95th percentile per-packet one-way delay: 68.050 ms

Loss rate: 1.53%

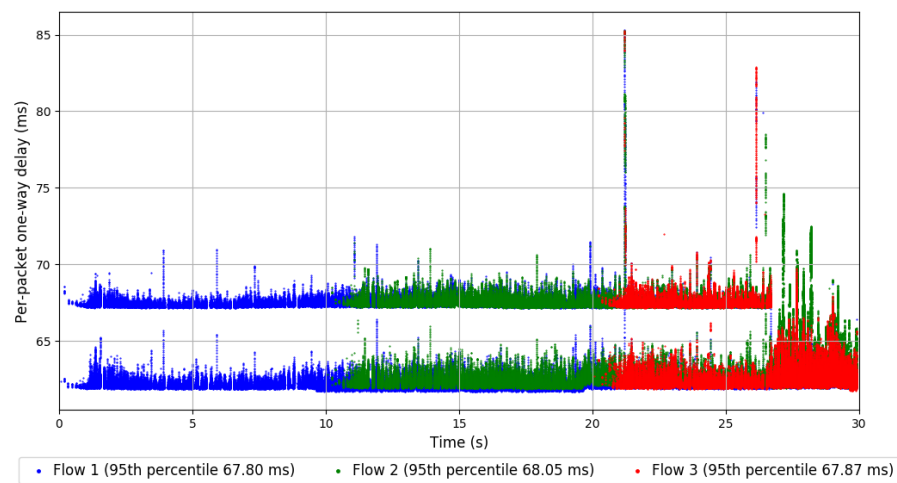
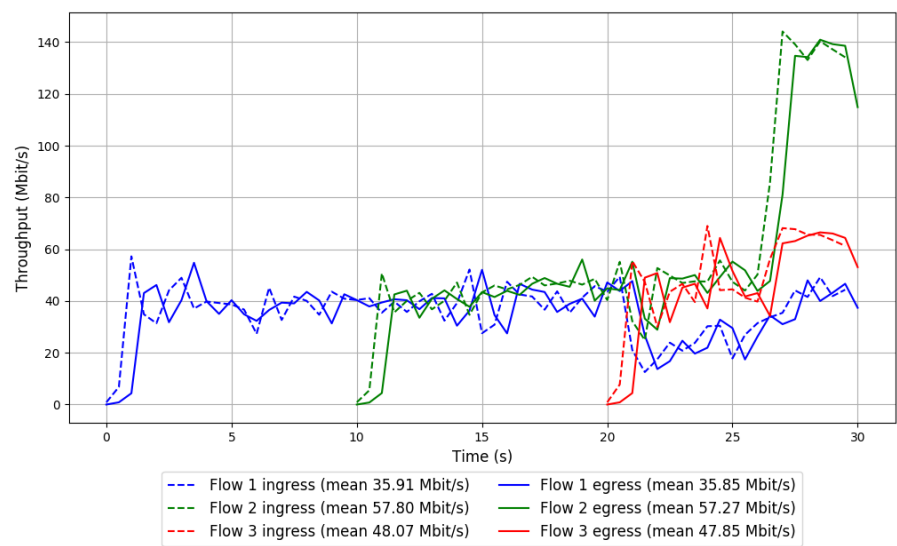
-- Flow 3:

Average throughput: 47.85 Mbit/s

95th percentile per-packet one-way delay: 67.868 ms

Loss rate: 1.71%

Run 9: Report of Copa — Data Link

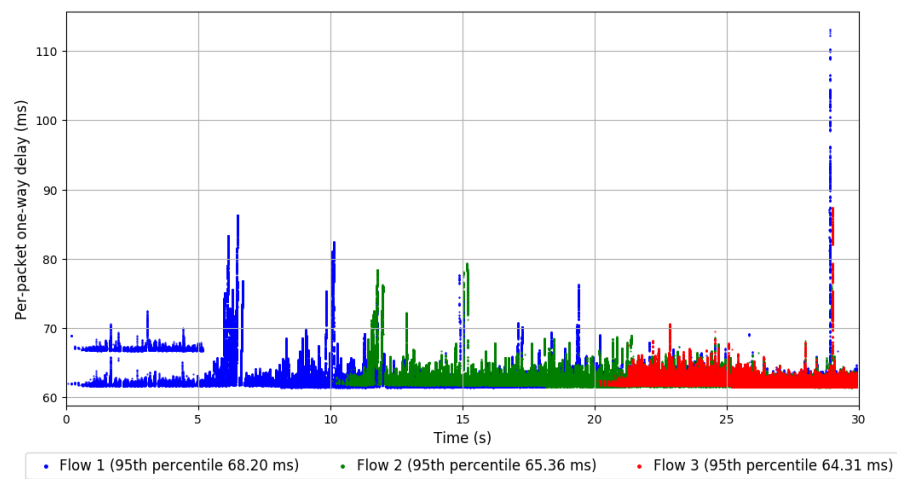
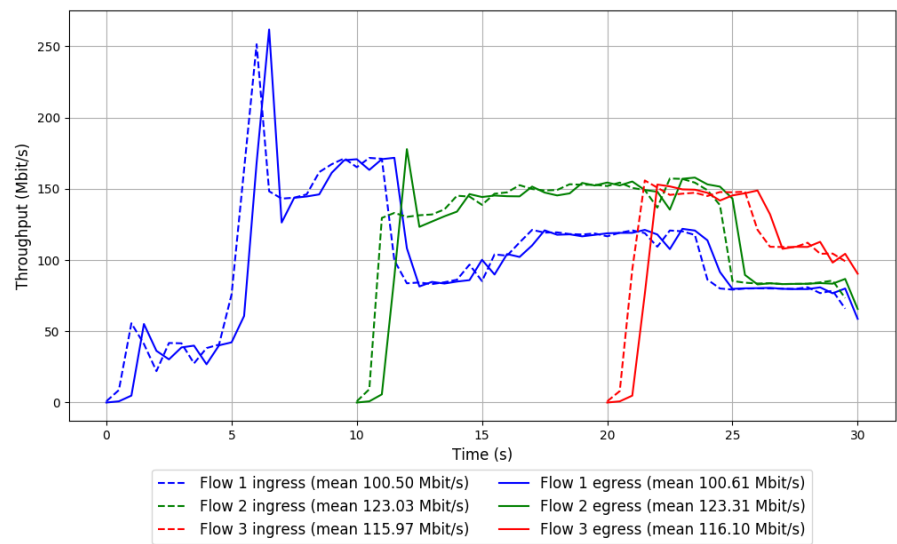


Run 10: Statistics of Copa

Start at: 2018-05-23 13:47:58
End at: 2018-05-23 13:48:28
Local clock offset: 0.282 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2018-05-23 14:22:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 220.72 Mbit/s
95th percentile per-packet one-way delay: 66.853 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 100.61 Mbit/s
95th percentile per-packet one-way delay: 68.198 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 123.31 Mbit/s
95th percentile per-packet one-way delay: 65.359 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 116.10 Mbit/s
95th percentile per-packet one-way delay: 64.309 ms
Loss rate: 1.13%

Run 10: Report of Copa — Data Link

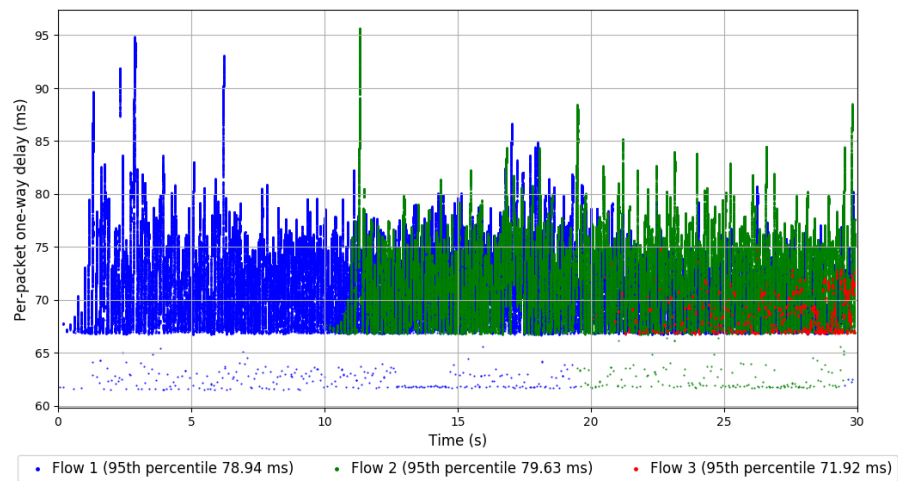
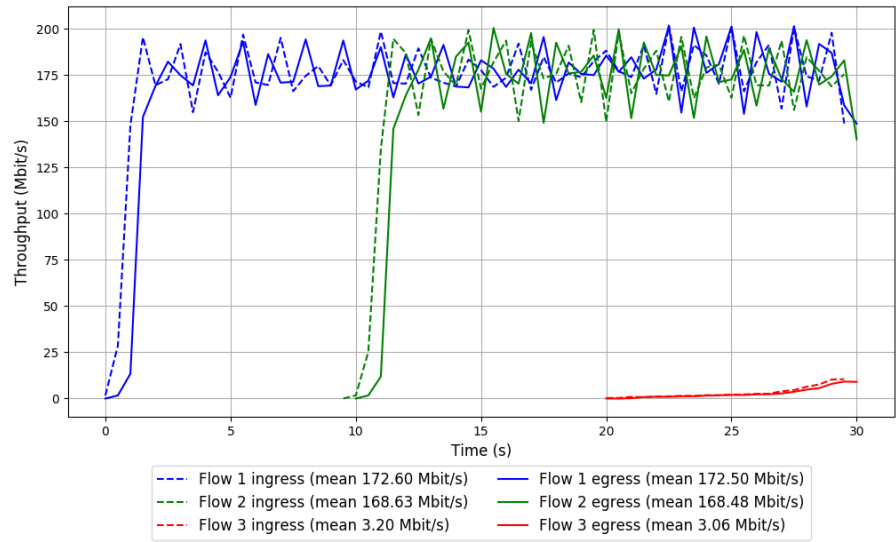


Run 1: Statistics of TCP Cubic

Start at: 2018-05-23 10:25:26
End at: 2018-05-23 10:25:56
Local clock offset: -0.296 ms
Remote clock offset: -0.156 ms

Below is generated by plot.py at 2018-05-23 14:22:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 285.17 Mbit/s
95th percentile per-packet one-way delay: 79.259 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 172.50 Mbit/s
95th percentile per-packet one-way delay: 78.936 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 168.48 Mbit/s
95th percentile per-packet one-way delay: 79.634 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 3.06 Mbit/s
95th percentile per-packet one-way delay: 71.918 ms
Loss rate: 5.65%

Run 1: Report of TCP Cubic — Data Link

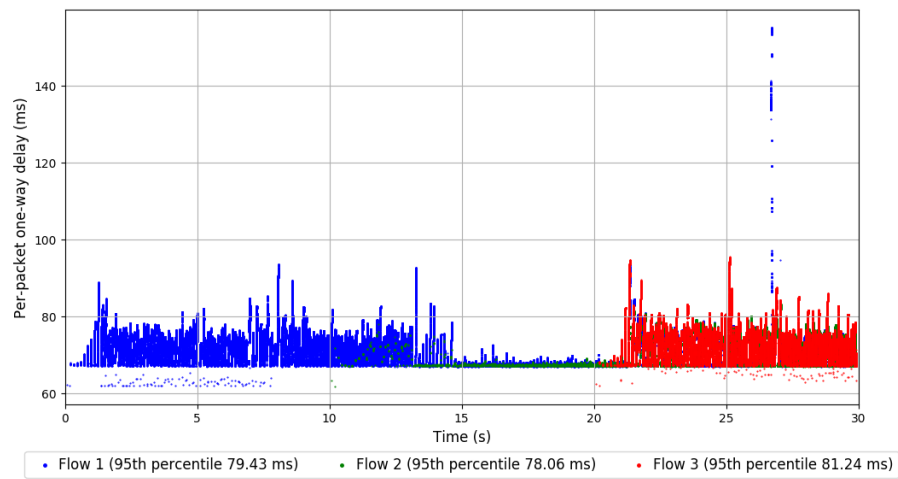
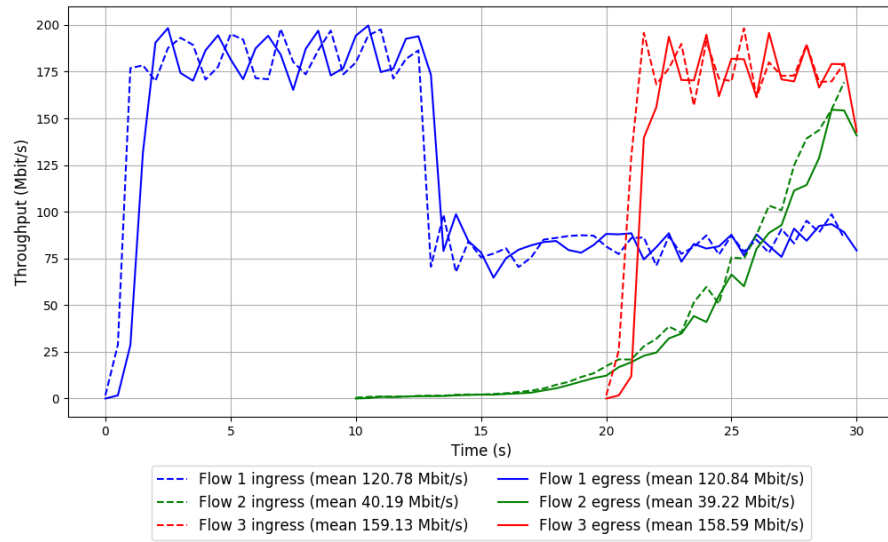


Run 2: Statistics of TCP Cubic

Start at: 2018-05-23 10:47:48
End at: 2018-05-23 10:48:18
Local clock offset: 0.039 ms
Remote clock offset: -0.106 ms

Below is generated by plot.py at 2018-05-23 14:22:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 199.13 Mbit/s
95th percentile per-packet one-way delay: 79.771 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 120.84 Mbit/s
95th percentile per-packet one-way delay: 79.429 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 39.22 Mbit/s
95th percentile per-packet one-way delay: 78.060 ms
Loss rate: 3.03%
-- Flow 3:
Average throughput: 158.59 Mbit/s
95th percentile per-packet one-way delay: 81.241 ms
Loss rate: 1.63%

Run 2: Report of TCP Cubic — Data Link

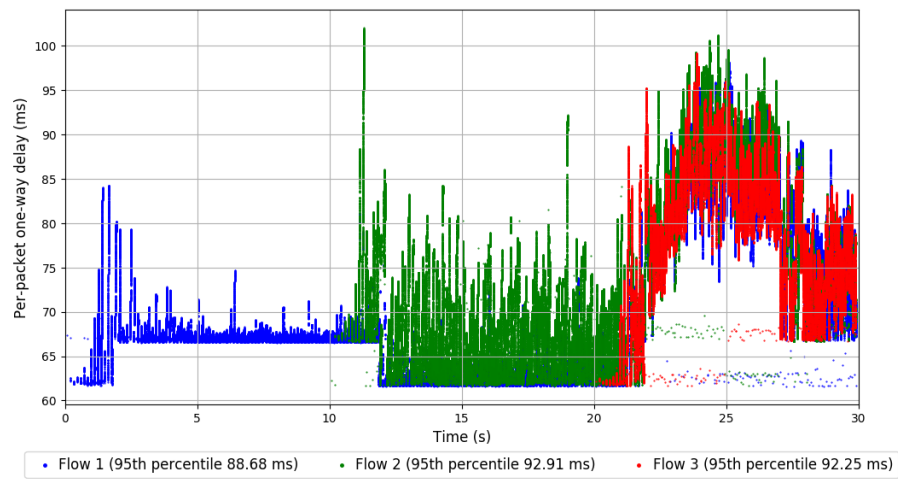
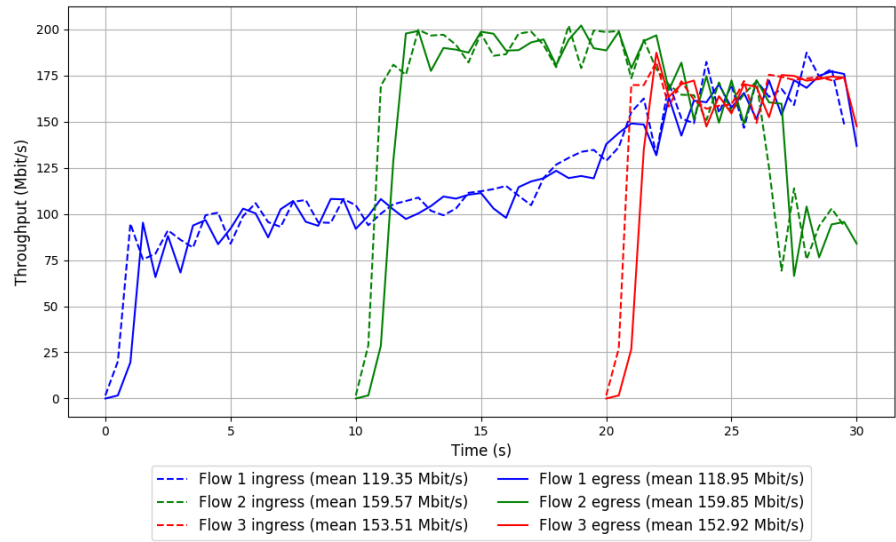


Run 3: Statistics of TCP Cubic

Start at: 2018-05-23 11:10:11
End at: 2018-05-23 11:10:41
Local clock offset: -0.058 ms
Remote clock offset: 0.082 ms

Below is generated by plot.py at 2018-05-23 14:22:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 275.52 Mbit/s
95th percentile per-packet one-way delay: 91.389 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 118.95 Mbit/s
95th percentile per-packet one-way delay: 88.681 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 159.85 Mbit/s
95th percentile per-packet one-way delay: 92.909 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 152.92 Mbit/s
95th percentile per-packet one-way delay: 92.247 ms
Loss rate: 1.64%

Run 3: Report of TCP Cubic — Data Link

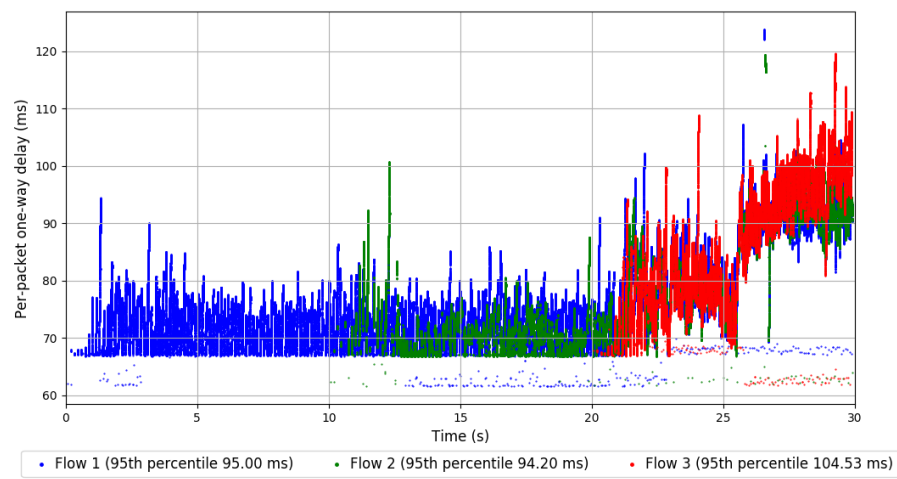
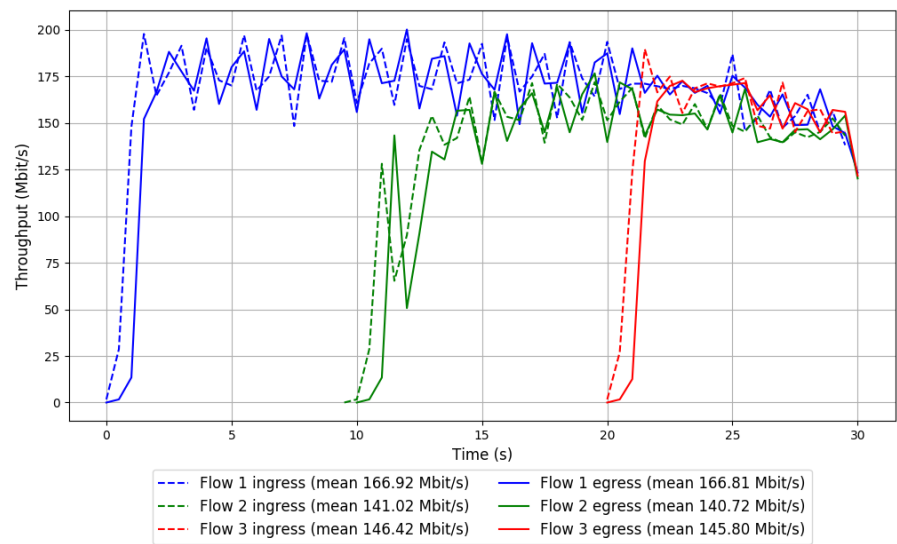


Run 4: Statistics of TCP Cubic

Start at: 2018-05-23 11:32:40
End at: 2018-05-23 11:33:10
Local clock offset: -0.147 ms
Remote clock offset: -0.117 ms

Below is generated by plot.py at 2018-05-23 14:22:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 308.32 Mbit/s
95th percentile per-packet one-way delay: 97.676 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 166.81 Mbit/s
95th percentile per-packet one-way delay: 95.004 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 140.72 Mbit/s
95th percentile per-packet one-way delay: 94.201 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 145.80 Mbit/s
95th percentile per-packet one-way delay: 104.526 ms
Loss rate: 1.65%

Run 4: Report of TCP Cubic — Data Link

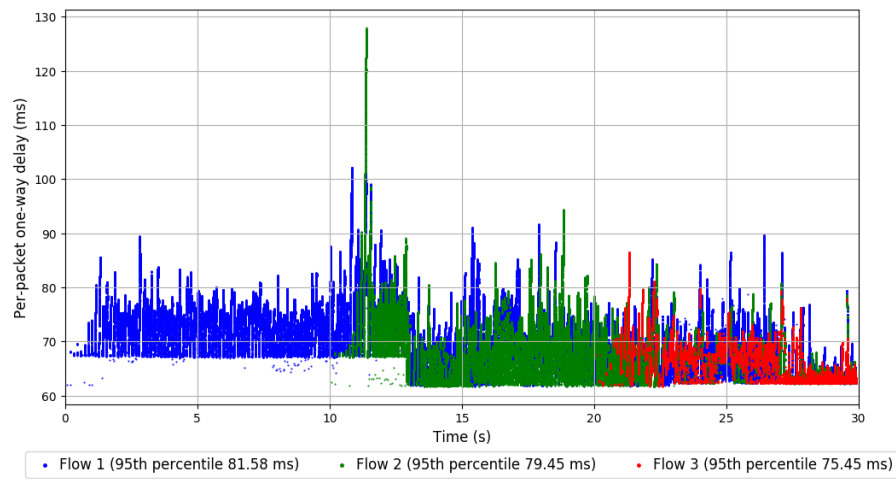
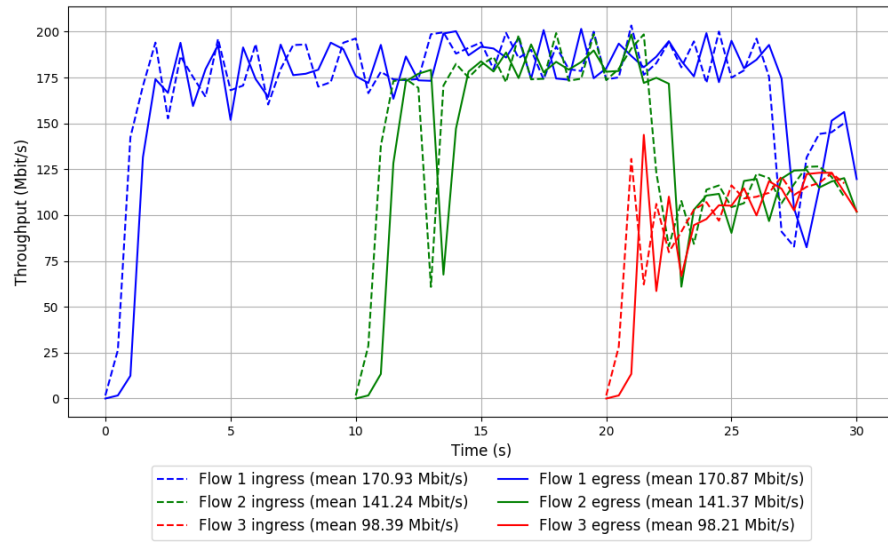


Run 5: Statistics of TCP Cubic

Start at: 2018-05-23 11:54:50
End at: 2018-05-23 11:55:20
Local clock offset: -0.168 ms
Remote clock offset: -0.289 ms

Below is generated by plot.py at 2018-05-23 14:22:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 297.13 Mbit/s
95th percentile per-packet one-way delay: 80.502 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 170.87 Mbit/s
95th percentile per-packet one-way delay: 81.578 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 141.37 Mbit/s
95th percentile per-packet one-way delay: 79.454 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 98.21 Mbit/s
95th percentile per-packet one-way delay: 75.450 ms
Loss rate: 1.47%

Run 5: Report of TCP Cubic — Data Link

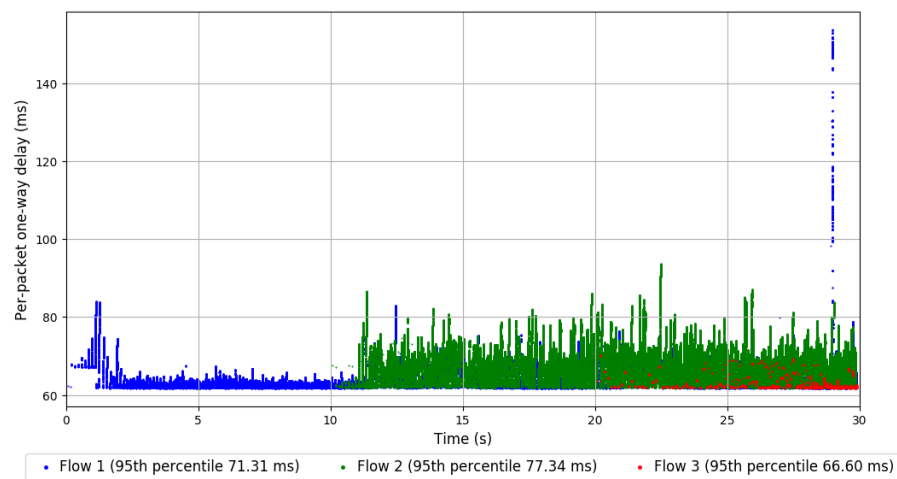
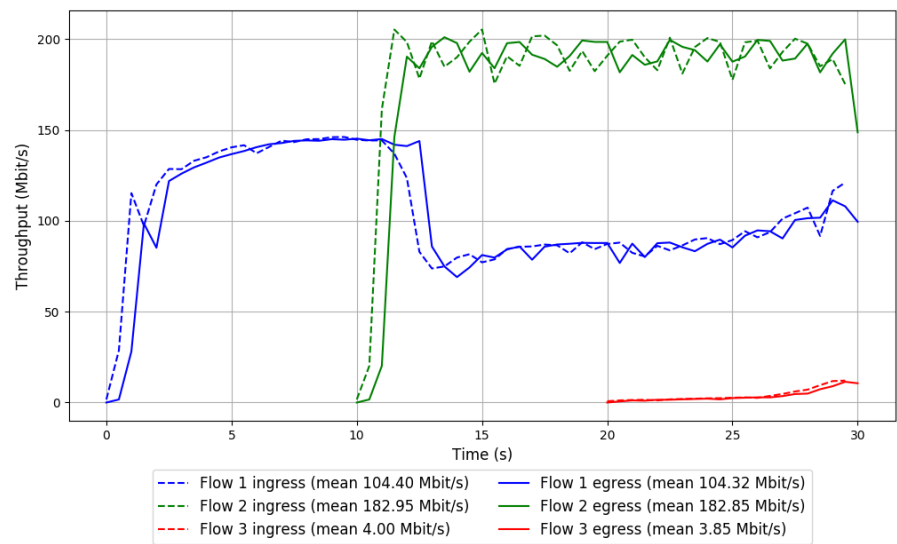


Run 6: Statistics of TCP Cubic

Start at: 2018-05-23 12:17:02
End at: 2018-05-23 12:17:32
Local clock offset: -0.298 ms
Remote clock offset: -0.321 ms

Below is generated by plot.py at 2018-05-23 14:22:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 226.83 Mbit/s
95th percentile per-packet one-way delay: 75.602 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 104.32 Mbit/s
95th percentile per-packet one-way delay: 71.312 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 182.85 Mbit/s
95th percentile per-packet one-way delay: 77.337 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 3.85 Mbit/s
95th percentile per-packet one-way delay: 66.603 ms
Loss rate: 4.91%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-05-23 12:39:28

End at: 2018-05-23 12:39:58

Local clock offset: 0.052 ms

Remote clock offset: -0.01 ms

Below is generated by plot.py at 2018-05-23 14:24:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 290.61 Mbit/s

95th percentile per-packet one-way delay: 77.851 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 176.63 Mbit/s

95th percentile per-packet one-way delay: 77.623 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 169.60 Mbit/s

95th percentile per-packet one-way delay: 78.213 ms

Loss rate: 0.40%

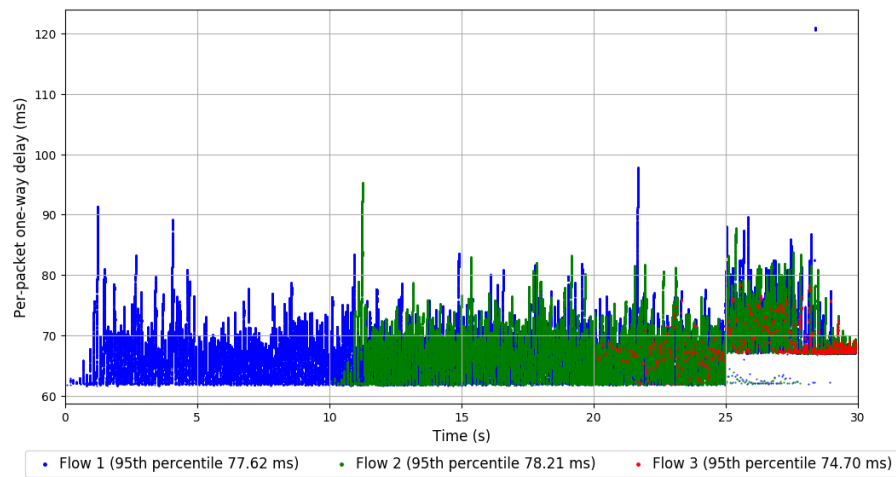
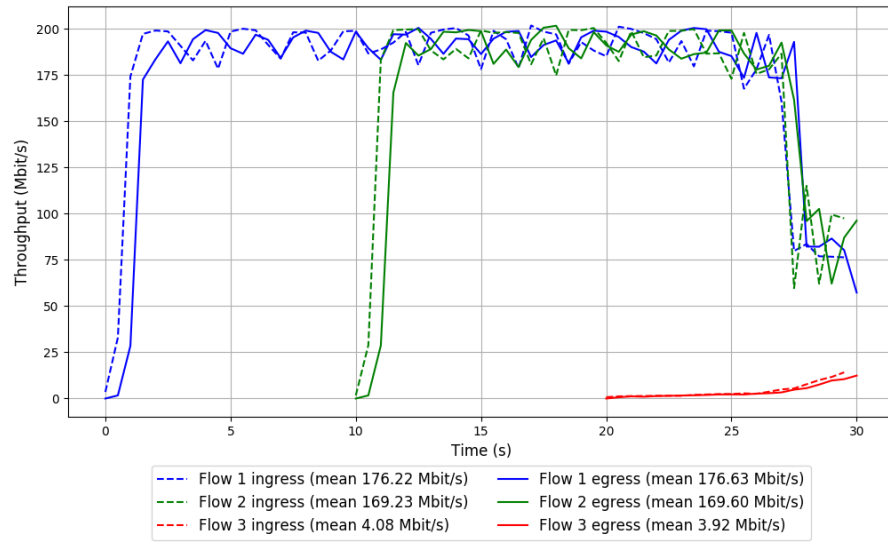
-- Flow 3:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 74.701 ms

Loss rate: 5.03%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-05-23 13:02:02

End at: 2018-05-23 13:02:32

Local clock offset: -0.032 ms

Remote clock offset: 0.063 ms

Below is generated by plot.py at 2018-05-23 14:24:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 191.75 Mbit/s

95th percentile per-packet one-way delay: 83.113 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 71.02 Mbit/s

95th percentile per-packet one-way delay: 81.435 ms

Loss rate: 1.17%

-- Flow 2:

Average throughput: 107.58 Mbit/s

95th percentile per-packet one-way delay: 75.642 ms

Loss rate: 0.77%

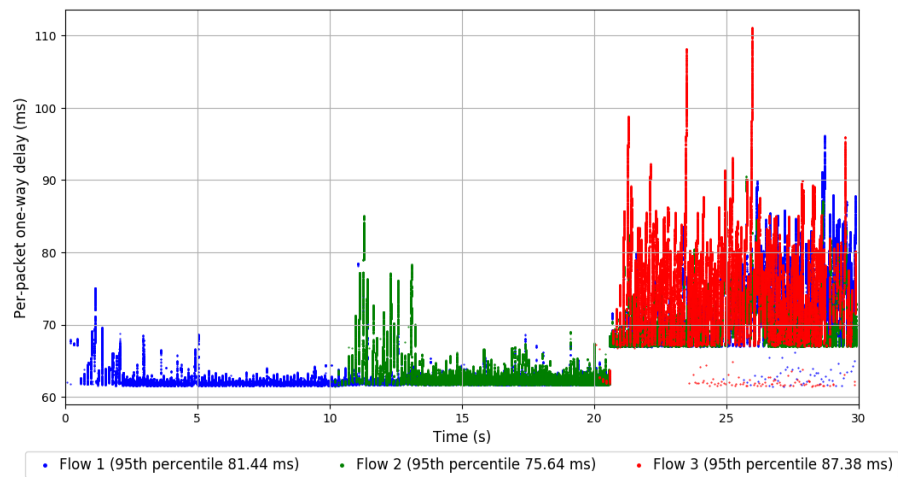
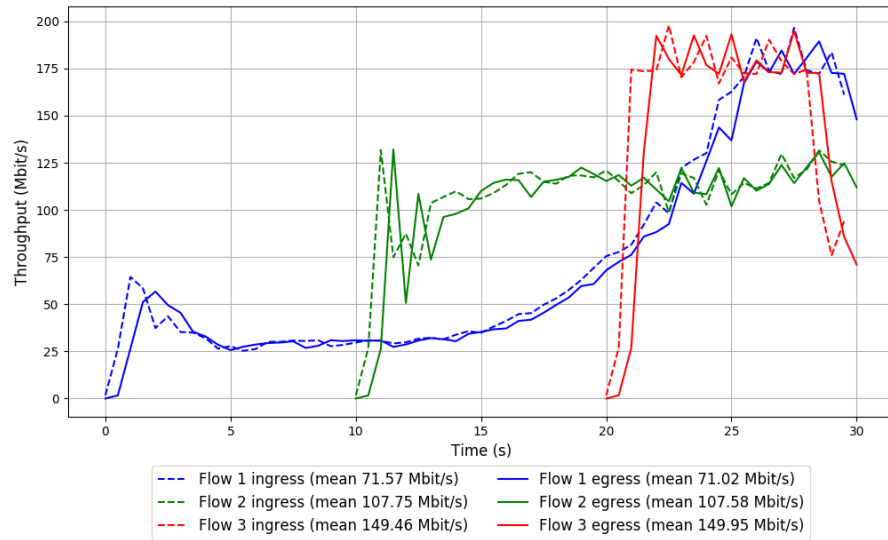
-- Flow 3:

Average throughput: 149.95 Mbit/s

95th percentile per-packet one-way delay: 87.382 ms

Loss rate: 0.98%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-05-23 13:24:24

End at: 2018-05-23 13:24:54

Local clock offset: -0.164 ms

Remote clock offset: -0.18 ms

Below is generated by plot.py at 2018-05-23 14:25:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 237.08 Mbit/s

95th percentile per-packet one-way delay: 80.026 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 144.68 Mbit/s

95th percentile per-packet one-way delay: 76.158 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 137.33 Mbit/s

95th percentile per-packet one-way delay: 82.658 ms

Loss rate: 0.41%

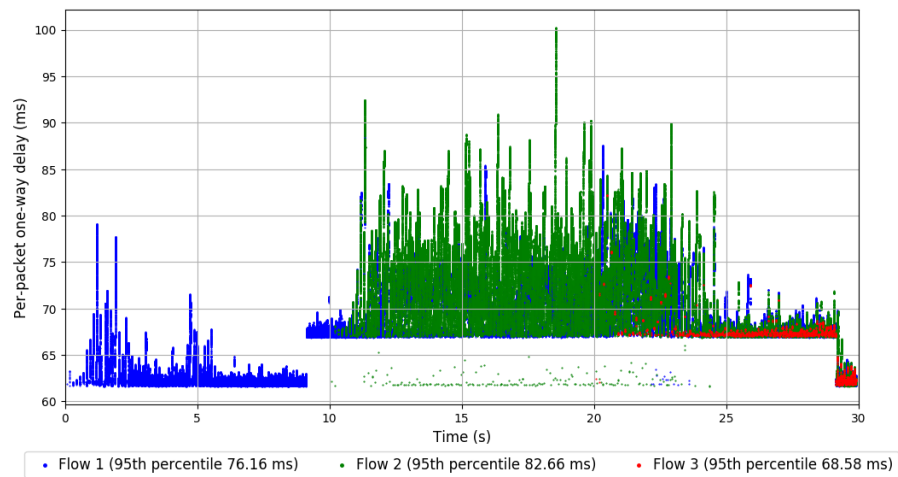
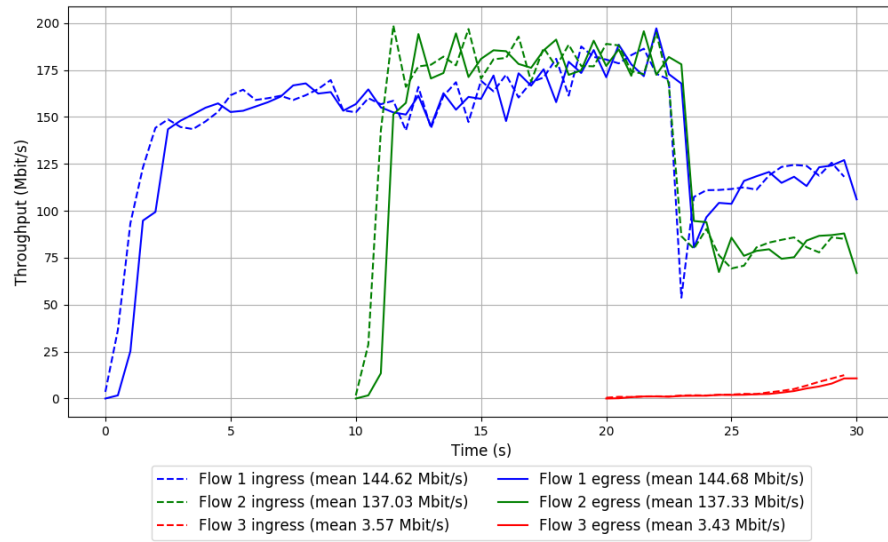
-- Flow 3:

Average throughput: 3.43 Mbit/s

95th percentile per-packet one-way delay: 68.576 ms

Loss rate: 5.10%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-05-23 13:46:33

End at: 2018-05-23 13:47:03

Local clock offset: 0.236 ms

Remote clock offset: 0.013 ms

Below is generated by plot.py at 2018-05-23 14:26:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 286.42 Mbit/s

95th percentile per-packet one-way delay: 77.890 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 148.49 Mbit/s

95th percentile per-packet one-way delay: 77.324 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 121.63 Mbit/s

95th percentile per-packet one-way delay: 79.892 ms

Loss rate: 0.59%

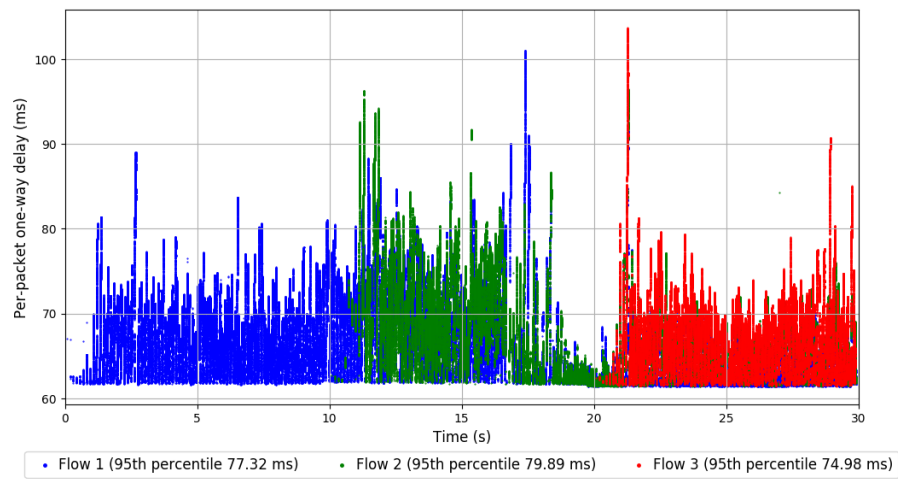
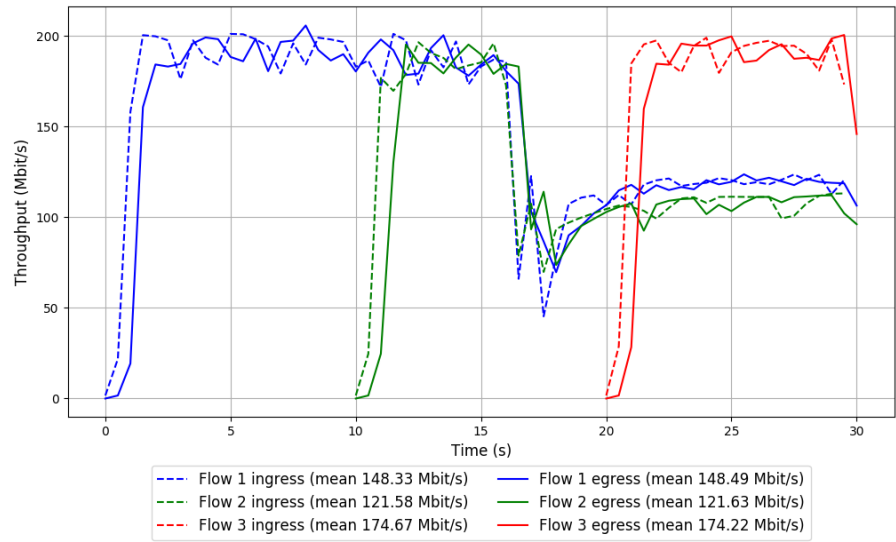
-- Flow 3:

Average throughput: 174.22 Mbit/s

95th percentile per-packet one-way delay: 74.982 ms

Loss rate: 1.41%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-05-23 10:14:37

End at: 2018-05-23 10:15:07

Local clock offset: -0.229 ms

Remote clock offset: 0.037 ms

Below is generated by plot.py at 2018-05-23 14:42:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 826.62 Mbit/s

95th percentile per-packet one-way delay: 155.299 ms

Loss rate: 5.30%

-- Flow 1:

Average throughput: 493.53 Mbit/s

95th percentile per-packet one-way delay: 165.807 ms

Loss rate: 5.16%

-- Flow 2:

Average throughput: 334.93 Mbit/s

95th percentile per-packet one-way delay: 75.321 ms

Loss rate: 4.63%

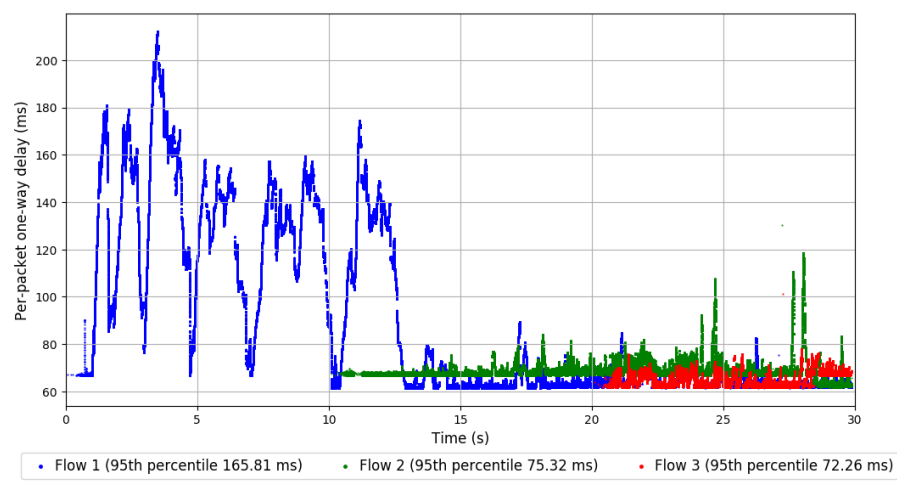
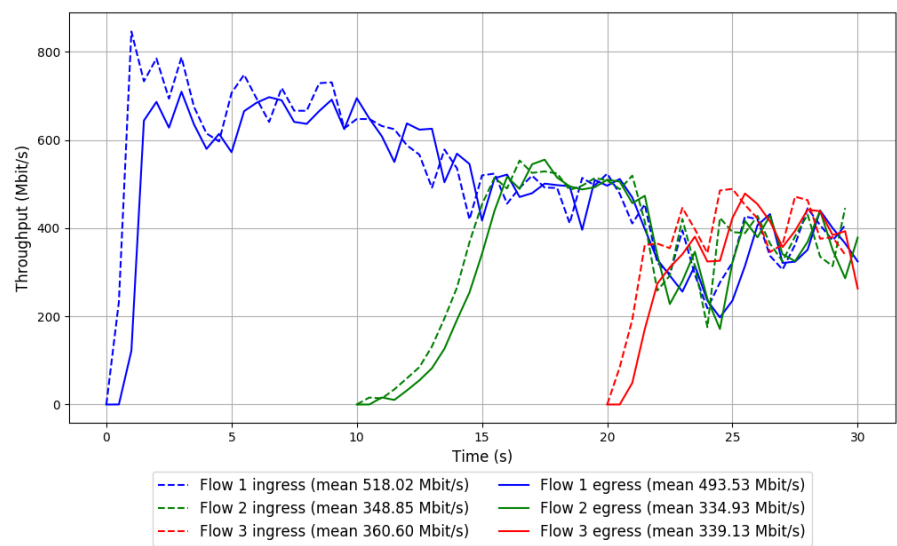
-- Flow 3:

Average throughput: 339.13 Mbit/s

95th percentile per-packet one-way delay: 72.263 ms

Loss rate: 7.20%

Run 1: Report of FillP — Data Link

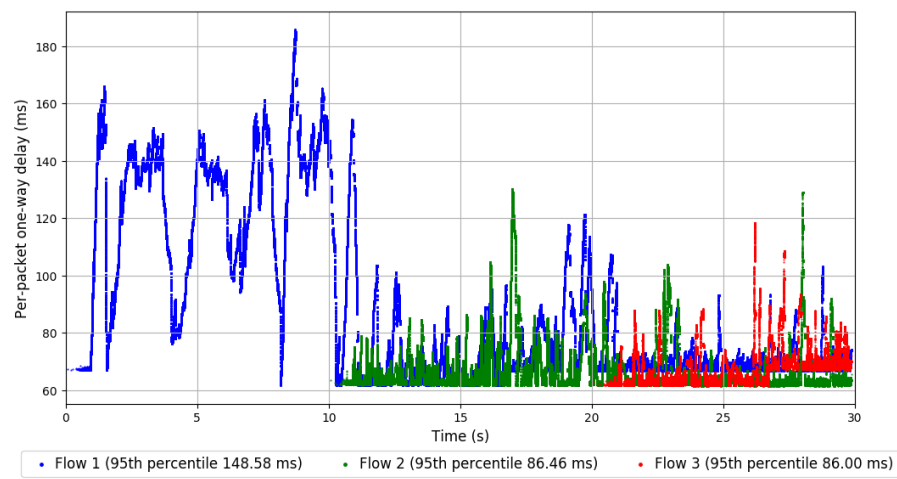
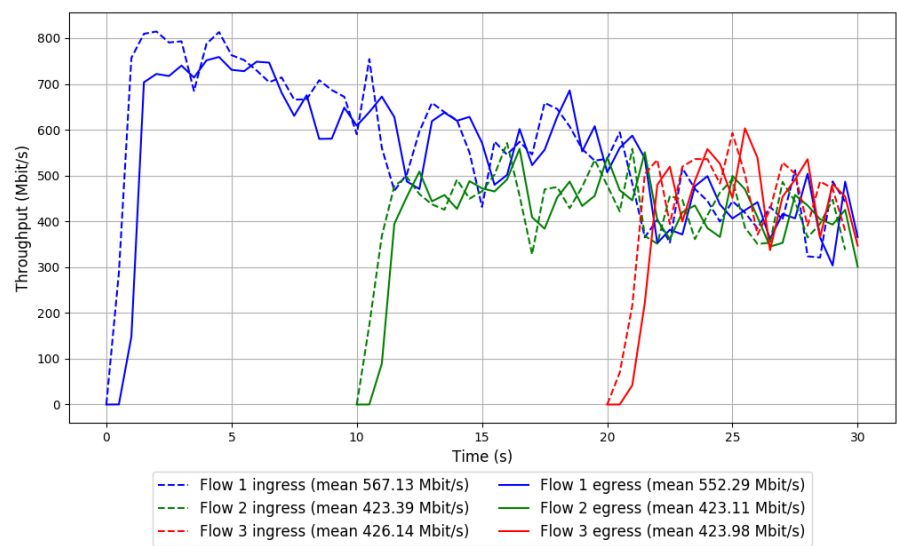


Run 2: Statistics of FillP

Start at: 2018-05-23 10:36:49
End at: 2018-05-23 10:37:19
Local clock offset: -0.235 ms
Remote clock offset: -0.216 ms

Below is generated by plot.py at 2018-05-23 14:47:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 972.23 Mbit/s
95th percentile per-packet one-way delay: 144.137 ms
Loss rate: 2.21%
-- Flow 1:
Average throughput: 552.29 Mbit/s
95th percentile per-packet one-way delay: 148.582 ms
Loss rate: 3.06%
-- Flow 2:
Average throughput: 423.11 Mbit/s
95th percentile per-packet one-way delay: 86.456 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 423.98 Mbit/s
95th percentile per-packet one-way delay: 85.999 ms
Loss rate: 1.80%

Run 2: Report of FillP — Data Link

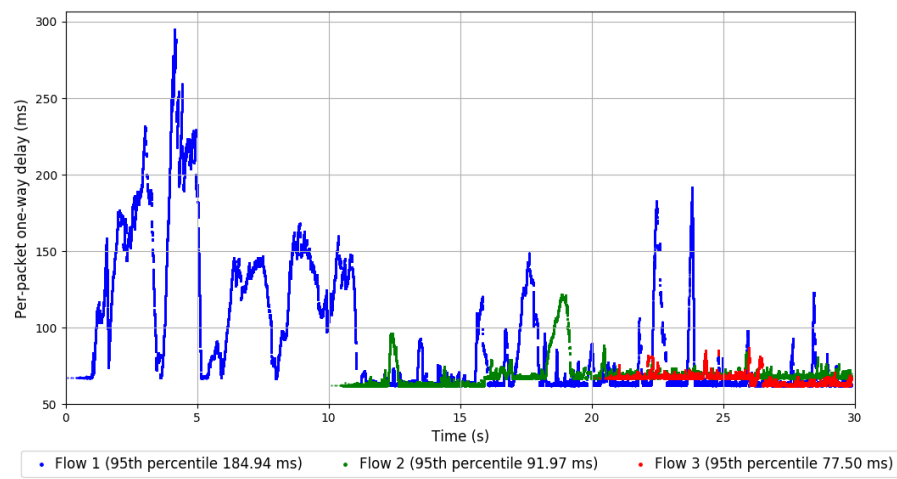
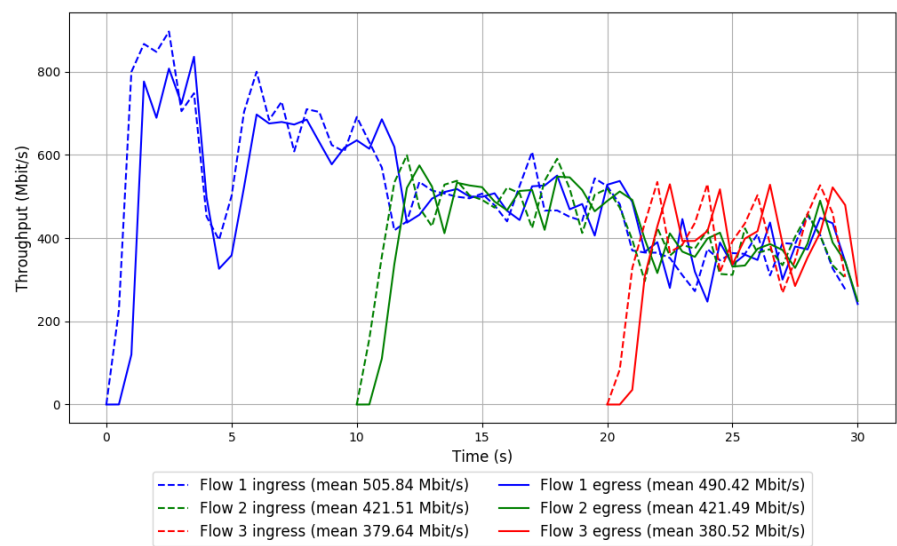


Run 3: Statistics of FillP

Start at: 2018-05-23 10:59:00
End at: 2018-05-23 10:59:30
Local clock offset: -0.057 ms
Remote clock offset: -0.109 ms

Below is generated by plot.py at 2018-05-23 14:47:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 894.47 Mbit/s
95th percentile per-packet one-way delay: 162.184 ms
Loss rate: 2.25%
-- Flow 1:
Average throughput: 490.42 Mbit/s
95th percentile per-packet one-way delay: 184.938 ms
Loss rate: 3.47%
-- Flow 2:
Average throughput: 421.49 Mbit/s
95th percentile per-packet one-way delay: 91.974 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 380.52 Mbit/s
95th percentile per-packet one-way delay: 77.495 ms
Loss rate: 1.02%

Run 3: Report of FillP — Data Link

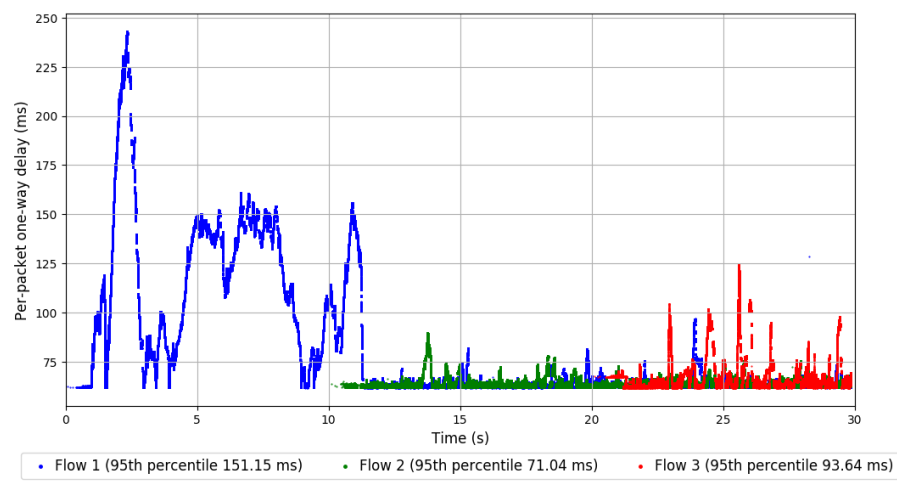
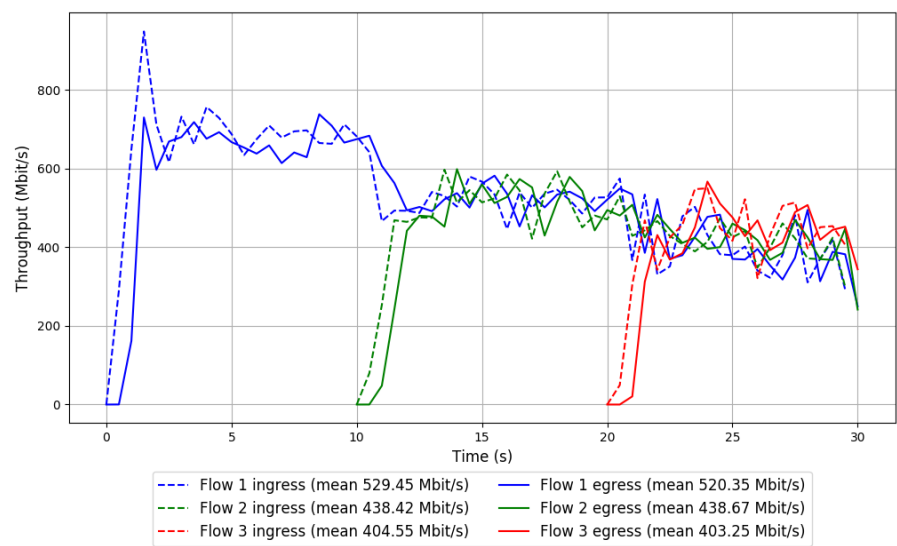


Run 4: Statistics of FillP

Start at: 2018-05-23 11:21:35
End at: 2018-05-23 11:22:05
Local clock offset: -0.091 ms
Remote clock offset: -0.196 ms

Below is generated by plot.py at 2018-05-23 14:47:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 943.36 Mbit/s
95th percentile per-packet one-way delay: 145.366 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 520.35 Mbit/s
95th percentile per-packet one-way delay: 151.154 ms
Loss rate: 2.14%
-- Flow 2:
Average throughput: 438.67 Mbit/s
95th percentile per-packet one-way delay: 71.036 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 403.25 Mbit/s
95th percentile per-packet one-way delay: 93.641 ms
Loss rate: 1.65%

Run 4: Report of FillP — Data Link

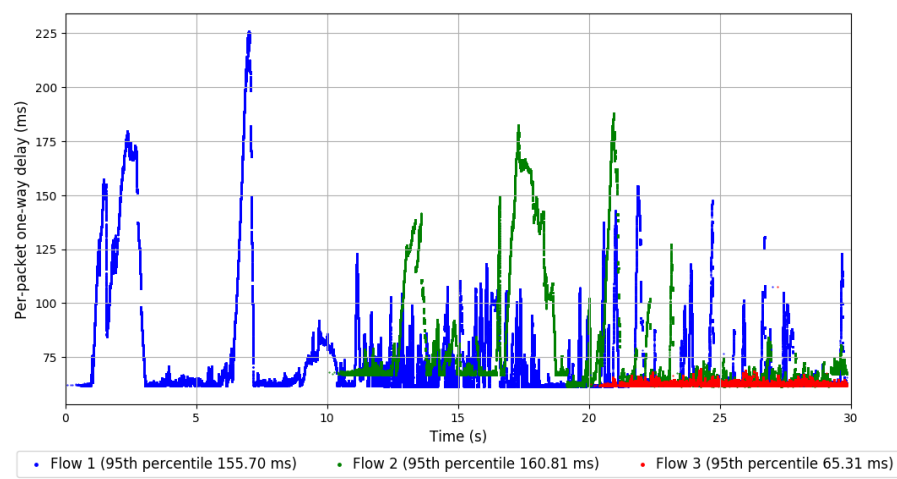
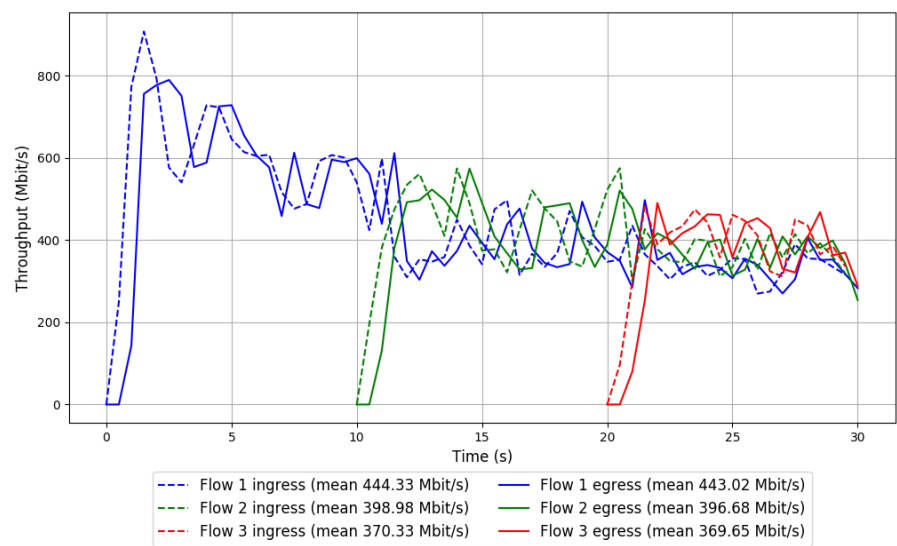


Run 5: Statistics of FillP

Start at: 2018-05-23 11:44:04
End at: 2018-05-23 11:44:34
Local clock offset: -0.176 ms
Remote clock offset: -0.089 ms

Below is generated by plot.py at 2018-05-23 14:47:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 827.49 Mbit/s
95th percentile per-packet one-way delay: 151.708 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 443.02 Mbit/s
95th percentile per-packet one-way delay: 155.701 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 396.68 Mbit/s
95th percentile per-packet one-way delay: 160.810 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 369.65 Mbit/s
95th percentile per-packet one-way delay: 65.310 ms
Loss rate: 1.44%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-05-23 12:06:05

End at: 2018-05-23 12:06:35

Local clock offset: -0.218 ms

Remote clock offset: 0.046 ms

Below is generated by plot.py at 2018-05-23 14:48:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 853.87 Mbit/s

95th percentile per-packet one-way delay: 140.076 ms

Loss rate: 7.19%

-- Flow 1:

Average throughput: 478.17 Mbit/s

95th percentile per-packet one-way delay: 145.420 ms

Loss rate: 6.30%

-- Flow 2:

Average throughput: 384.31 Mbit/s

95th percentile per-packet one-way delay: 98.711 ms

Loss rate: 8.98%

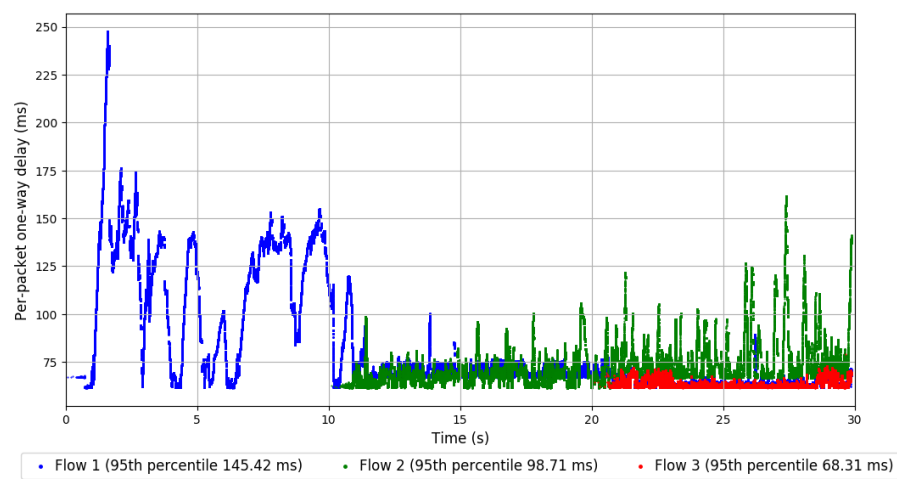
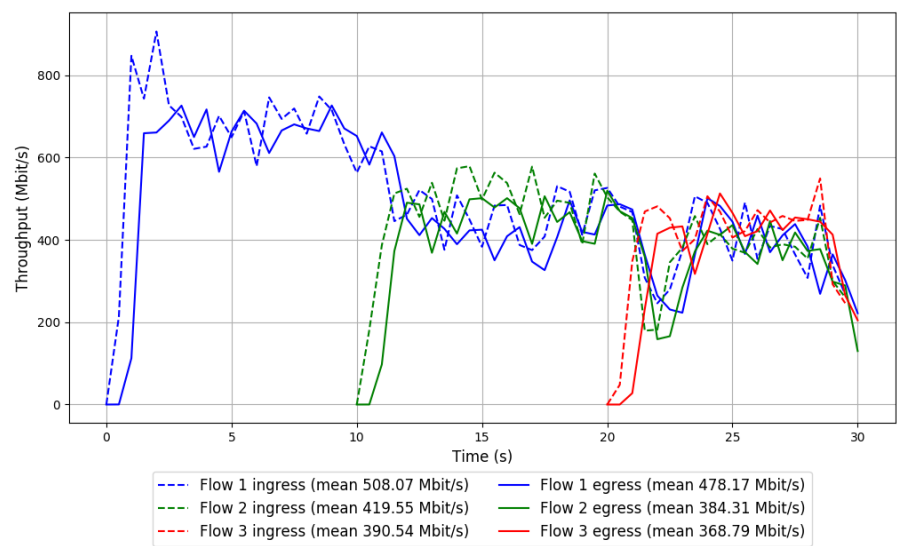
-- Flow 3:

Average throughput: 368.79 Mbit/s

95th percentile per-packet one-way delay: 68.308 ms

Loss rate: 6.81%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-05-23 12:28:33

End at: 2018-05-23 12:29:03

Local clock offset: -0.053 ms

Remote clock offset: 0.209 ms

Below is generated by plot.py at 2018-05-23 14:48:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 853.53 Mbit/s

95th percentile per-packet one-way delay: 180.258 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 471.09 Mbit/s

95th percentile per-packet one-way delay: 177.601 ms

Loss rate: 1.75%

-- Flow 2:

Average throughput: 386.54 Mbit/s

95th percentile per-packet one-way delay: 193.610 ms

Loss rate: 0.65%

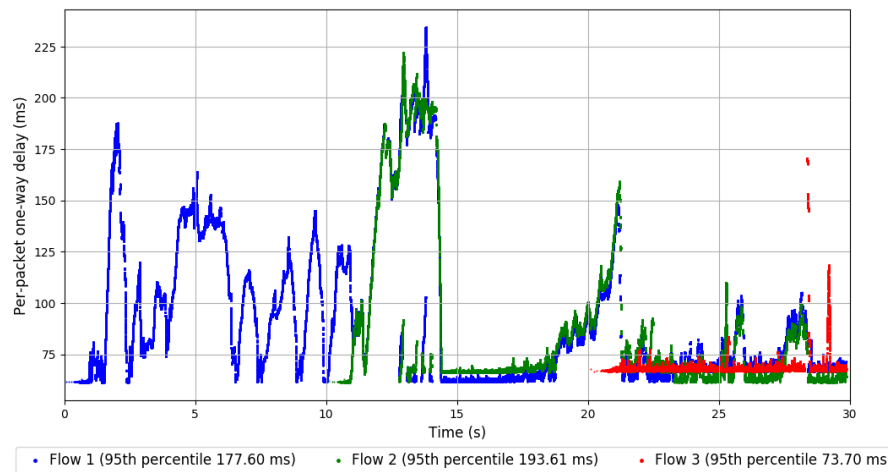
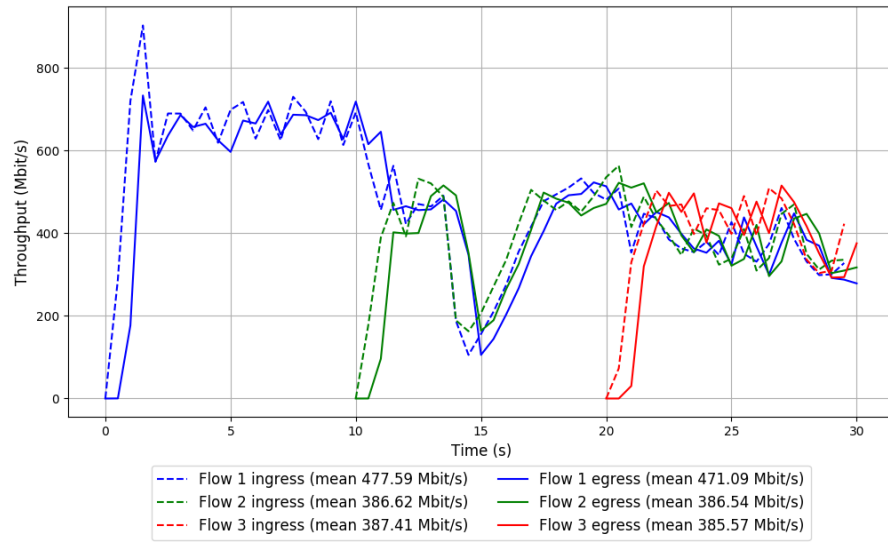
-- Flow 3:

Average throughput: 385.57 Mbit/s

95th percentile per-packet one-way delay: 73.704 ms

Loss rate: 1.73%

Run 7: Report of FillP — Data Link

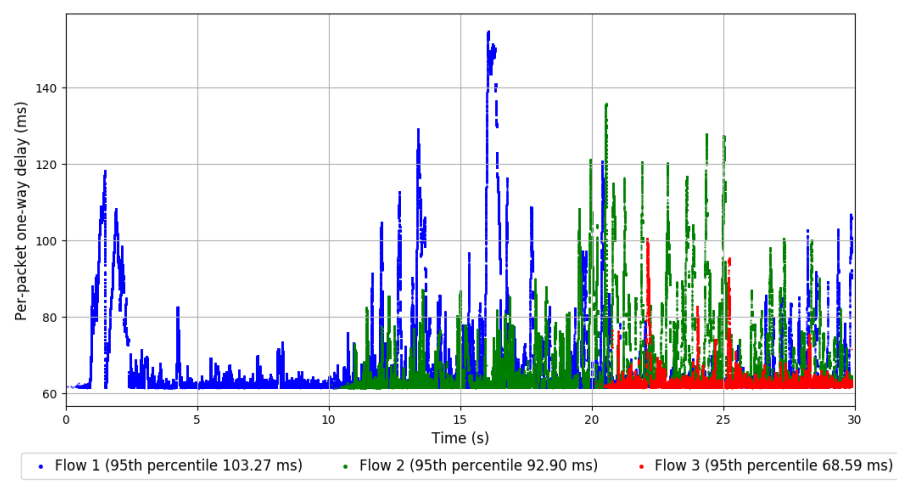
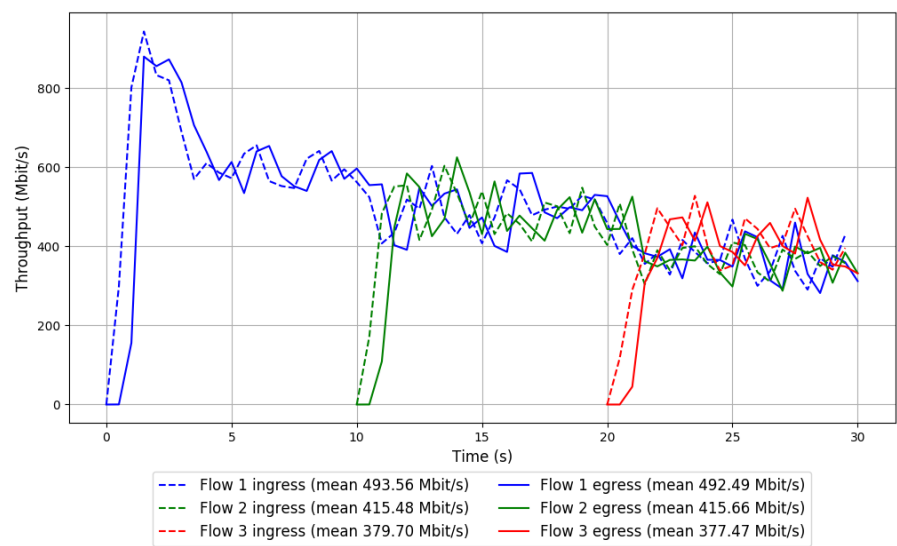


Run 8: Statistics of FillP

Start at: 2018-05-23 12:50:54
End at: 2018-05-23 12:51:24
Local clock offset: 0.038 ms
Remote clock offset: -0.019 ms

Below is generated by plot.py at 2018-05-23 14:49:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 891.34 Mbit/s
95th percentile per-packet one-way delay: 97.454 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 492.49 Mbit/s
95th percentile per-packet one-way delay: 103.273 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 415.66 Mbit/s
95th percentile per-packet one-way delay: 92.899 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 377.47 Mbit/s
95th percentile per-packet one-way delay: 68.589 ms
Loss rate: 1.62%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-05-23 13:13:29

End at: 2018-05-23 13:13:59

Local clock offset: -0.104 ms

Remote clock offset: 0.097 ms

Below is generated by plot.py at 2018-05-23 15:08:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 908.14 Mbit/s

95th percentile per-packet one-way delay: 158.150 ms

Loss rate: 2.43%

-- Flow 1:

Average throughput: 529.95 Mbit/s

95th percentile per-packet one-way delay: 157.894 ms

Loss rate: 2.67%

-- Flow 2:

Average throughput: 437.36 Mbit/s

95th percentile per-packet one-way delay: 164.552 ms

Loss rate: 1.99%

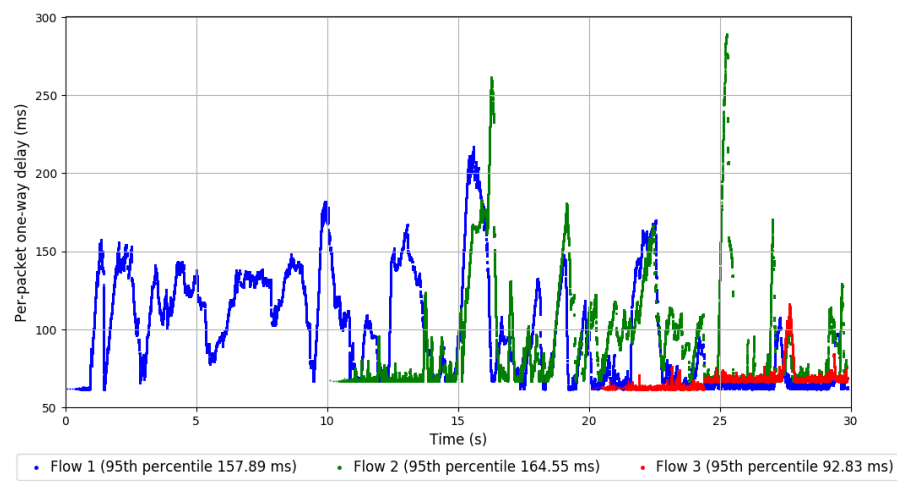
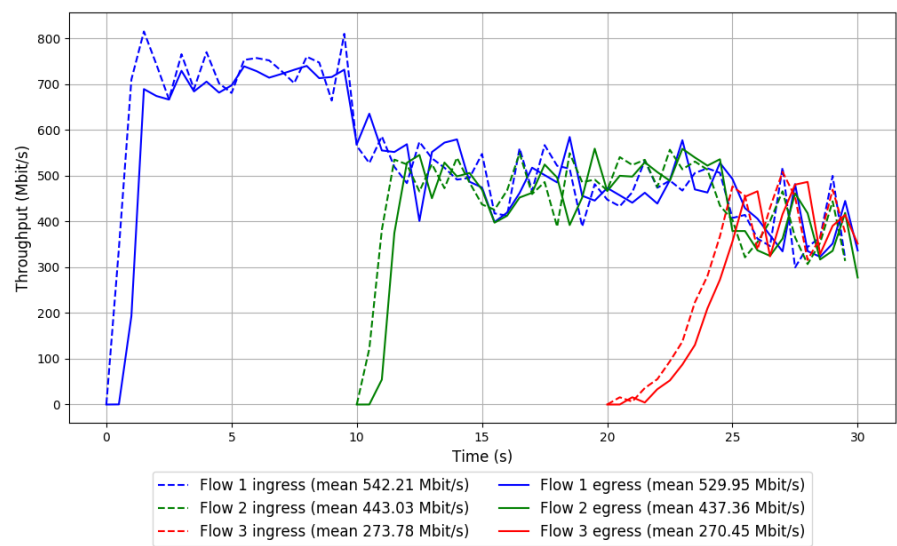
-- Flow 3:

Average throughput: 270.45 Mbit/s

95th percentile per-packet one-way delay: 92.834 ms

Loss rate: 2.44%

Run 9: Report of FillP — Data Link

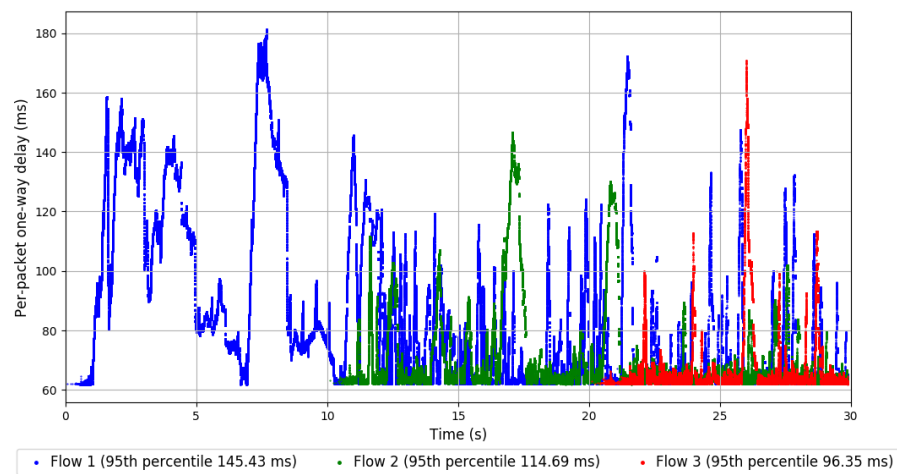
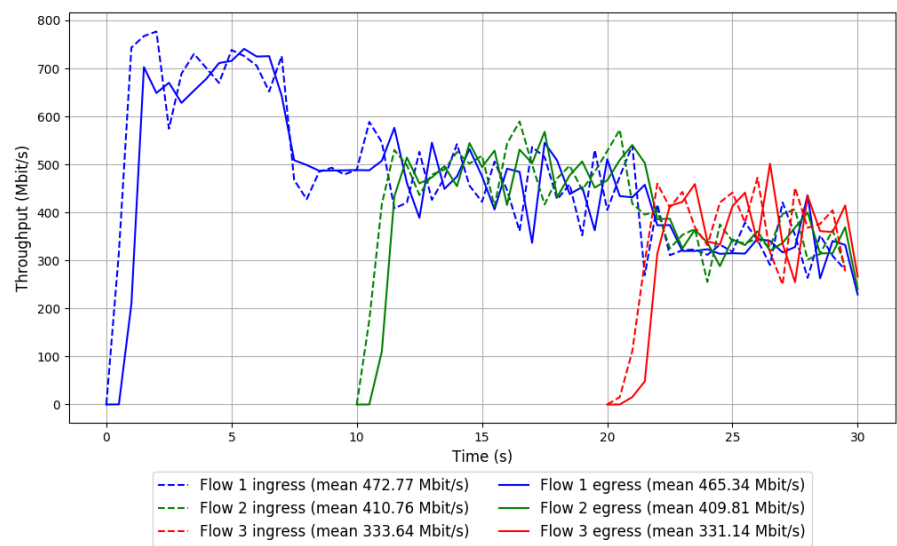


Run 10: Statistics of FillP

Start at: 2018-05-23 13:35:37
End at: 2018-05-23 13:36:07
Local clock offset: 0.132 ms
Remote clock offset: -0.381 ms

Below is generated by plot.py at 2018-05-23 15:09:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 845.36 Mbit/s
95th percentile per-packet one-way delay: 139.695 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 465.34 Mbit/s
95th percentile per-packet one-way delay: 145.431 ms
Loss rate: 1.98%
-- Flow 2:
Average throughput: 409.81 Mbit/s
95th percentile per-packet one-way delay: 114.695 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 331.14 Mbit/s
95th percentile per-packet one-way delay: 96.346 ms
Loss rate: 2.00%

Run 10: Report of FillP — Data Link

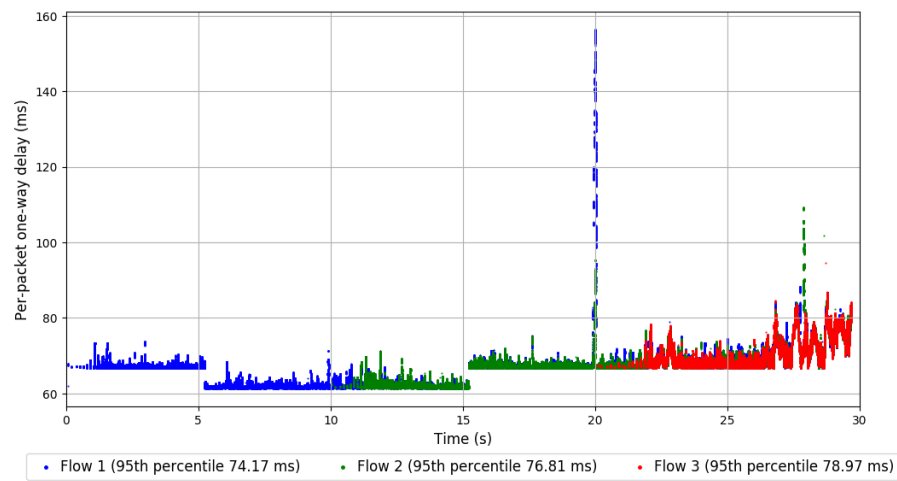
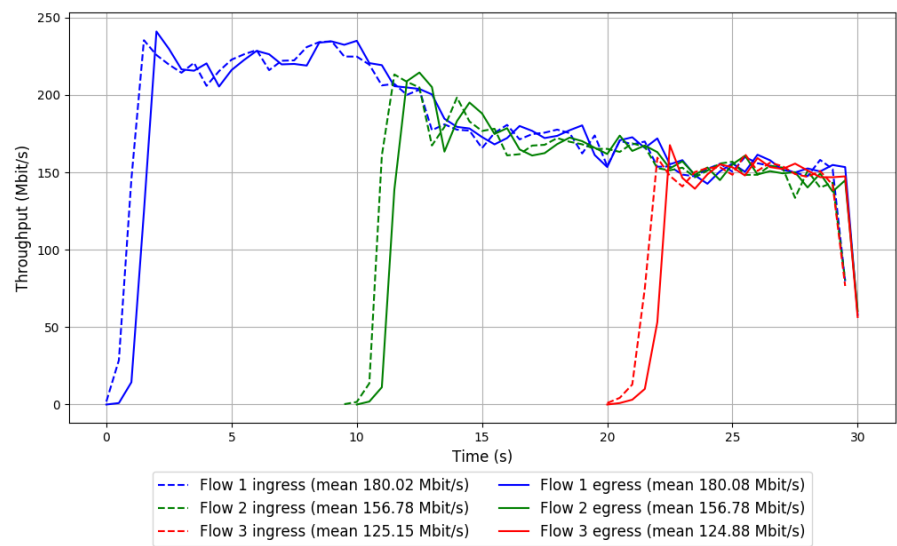


```
Run 1: Statistics of Indigo

Start at: 2018-05-23 10:17:37
End at: 2018-05-23 10:18:07
Local clock offset: -0.213 ms
Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2018-05-23 15:09:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 324.43 Mbit/s
95th percentile per-packet one-way delay: 76.455 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 180.08 Mbit/s
95th percentile per-packet one-way delay: 74.171 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 156.78 Mbit/s
95th percentile per-packet one-way delay: 76.806 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 124.88 Mbit/s
95th percentile per-packet one-way delay: 78.969 ms
Loss rate: 1.61%
```


Run 1: Report of Indigo — Data Link

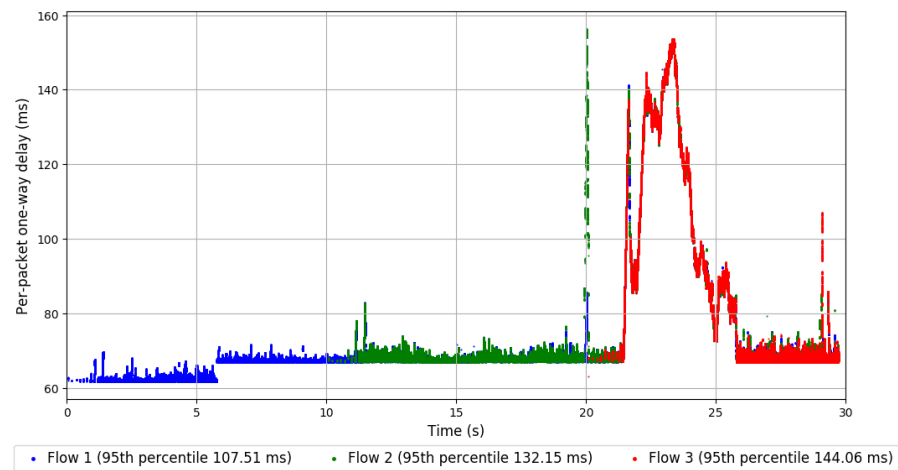
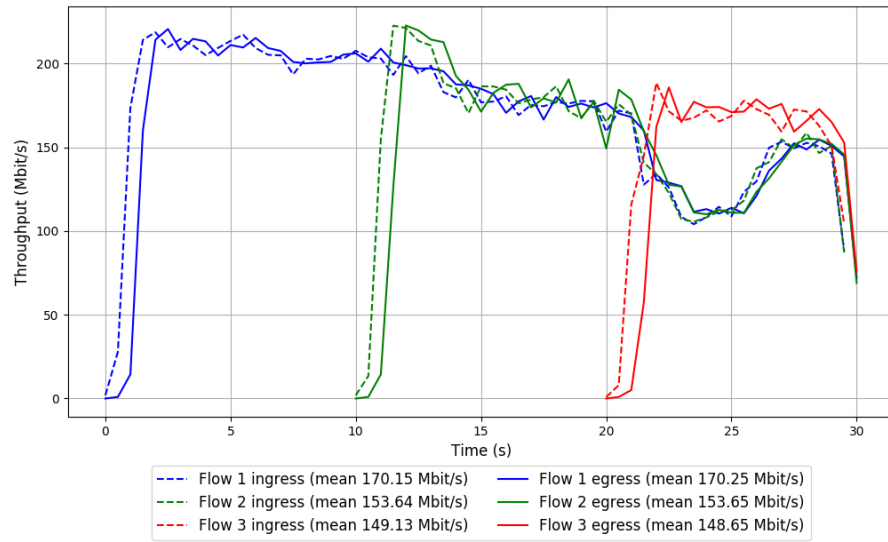


Run 2: Statistics of Indigo

Start at: 2018-05-23 10:39:57
End at: 2018-05-23 10:40:27
Local clock offset: -0.079 ms
Remote clock offset: -0.362 ms

Below is generated by plot.py at 2018-05-23 15:09:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 320.20 Mbit/s
95th percentile per-packet one-way delay: 132.475 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 170.25 Mbit/s
95th percentile per-packet one-way delay: 107.506 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 153.65 Mbit/s
95th percentile per-packet one-way delay: 132.147 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 148.65 Mbit/s
95th percentile per-packet one-way delay: 144.065 ms
Loss rate: 1.65%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-05-23 11:02:04

End at: 2018-05-23 11:02:34

Local clock offset: 0.077 ms

Remote clock offset: 0.105 ms

Below is generated by plot.py at 2018-05-23 15:09:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 320.96 Mbit/s

95th percentile per-packet one-way delay: 69.410 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 179.76 Mbit/s

95th percentile per-packet one-way delay: 69.232 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 154.52 Mbit/s

95th percentile per-packet one-way delay: 69.598 ms

Loss rate: 0.64%

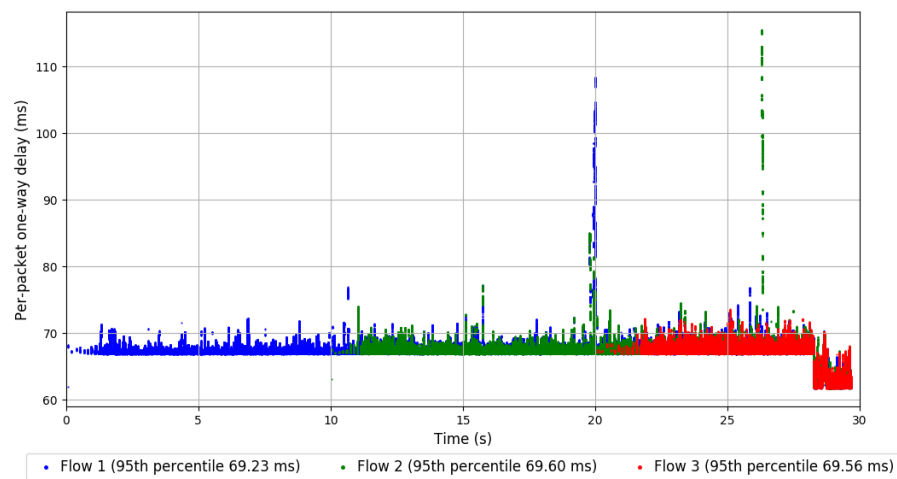
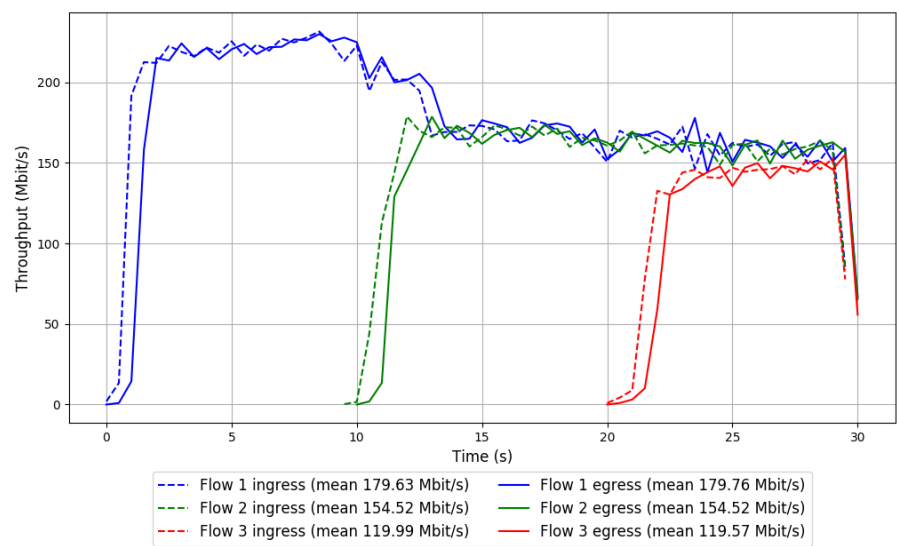
-- Flow 3:

Average throughput: 119.57 Mbit/s

95th percentile per-packet one-way delay: 69.559 ms

Loss rate: 1.70%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-05-23 11:24:42

End at: 2018-05-23 11:25:12

Local clock offset: -0.065 ms

Remote clock offset: 0.056 ms

Below is generated by plot.py at 2018-05-23 15:09:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 317.29 Mbit/s

95th percentile per-packet one-way delay: 71.346 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 173.16 Mbit/s

95th percentile per-packet one-way delay: 70.706 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 155.27 Mbit/s

95th percentile per-packet one-way delay: 71.286 ms

Loss rate: 0.66%

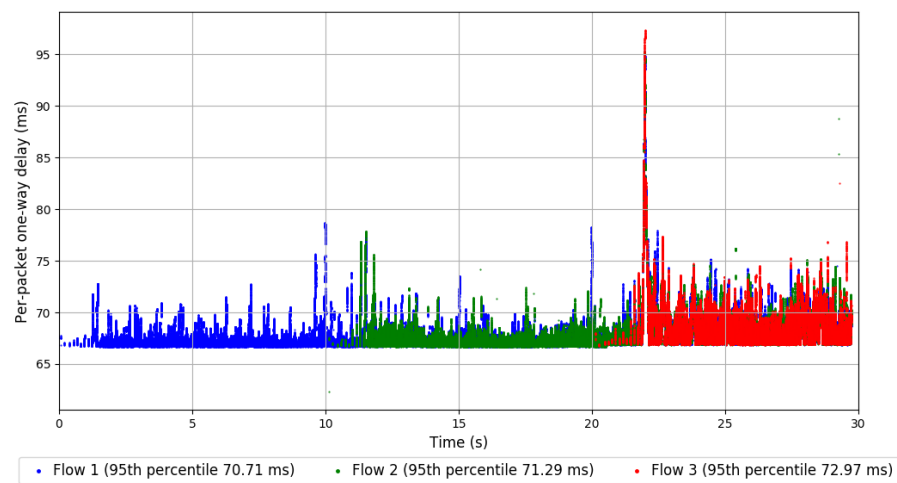
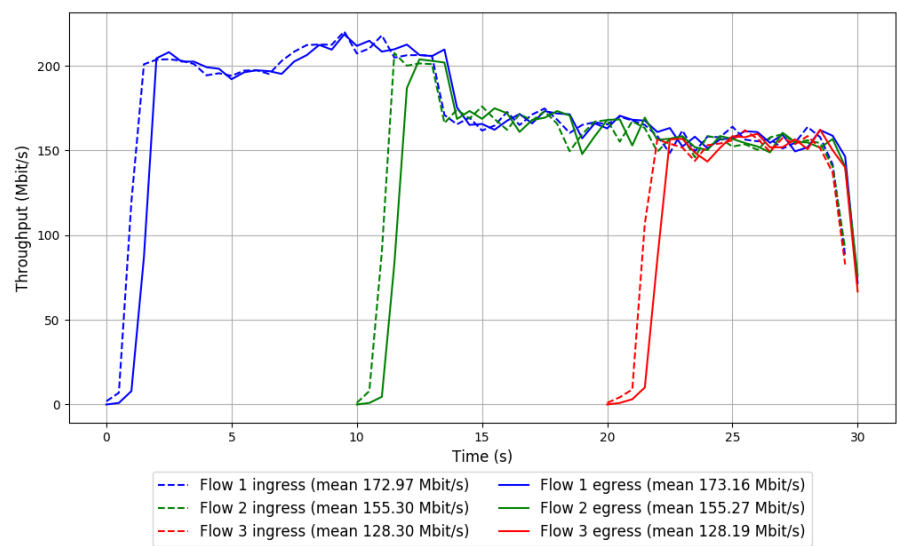
-- Flow 3:

Average throughput: 128.19 Mbit/s

95th percentile per-packet one-way delay: 72.966 ms

Loss rate: 1.42%

Run 4: Report of Indigo — Data Link

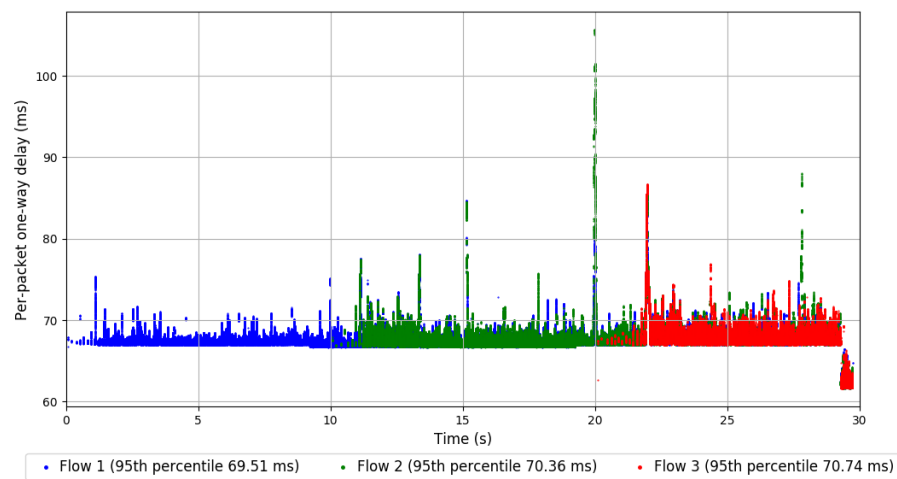
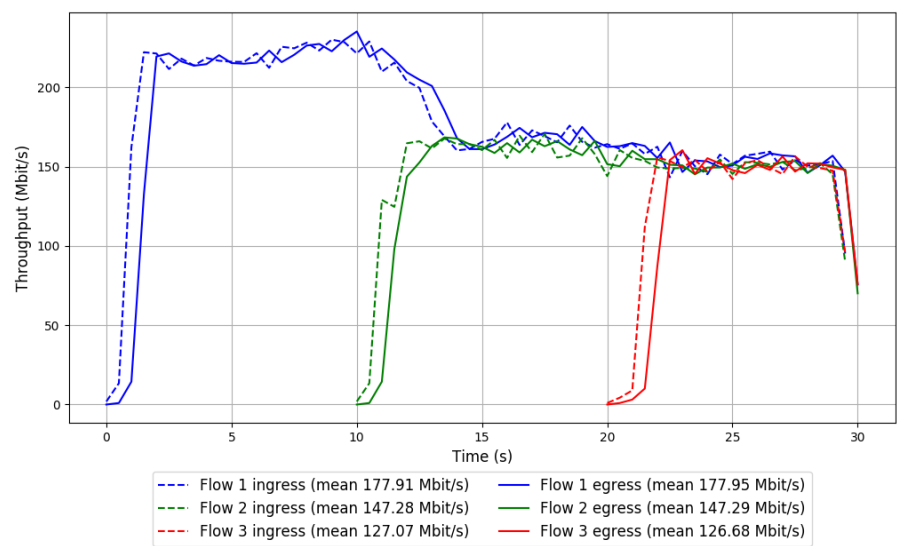


Run 5: Statistics of Indigo

Start at: 2018-05-23 11:47:03
End at: 2018-05-23 11:47:33
Local clock offset: -0.125 ms
Remote clock offset: -0.032 ms

Below is generated by plot.py at 2018-05-23 15:09:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 316.65 Mbit/s
95th percentile per-packet one-way delay: 69.978 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 177.95 Mbit/s
95th percentile per-packet one-way delay: 69.512 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 147.29 Mbit/s
95th percentile per-packet one-way delay: 70.363 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 126.68 Mbit/s
95th percentile per-packet one-way delay: 70.742 ms
Loss rate: 1.59%

Run 5: Report of Indigo — Data Link

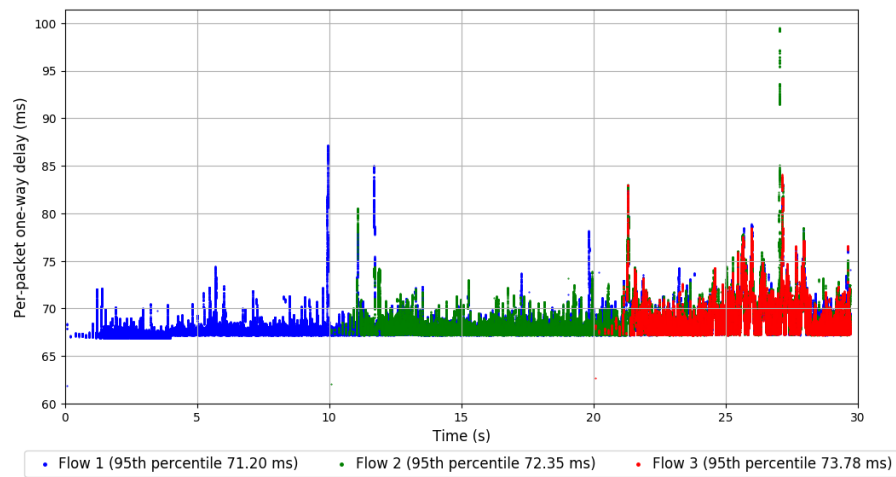
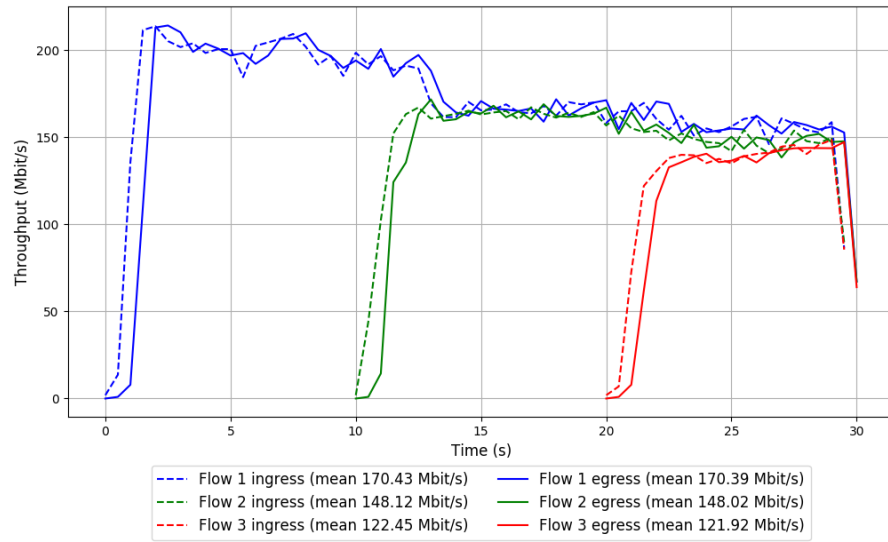


Run 6: Statistics of Indigo

Start at: 2018-05-23 12:09:09
End at: 2018-05-23 12:09:39
Local clock offset: -0.188 ms
Remote clock offset: -0.219 ms

Below is generated by plot.py at 2018-05-23 15:09:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 308.07 Mbit/s
95th percentile per-packet one-way delay: 72.057 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 170.39 Mbit/s
95th percentile per-packet one-way delay: 71.197 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 148.02 Mbit/s
95th percentile per-packet one-way delay: 72.349 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 121.92 Mbit/s
95th percentile per-packet one-way delay: 73.778 ms
Loss rate: 1.76%

Run 6: Report of Indigo — Data Link

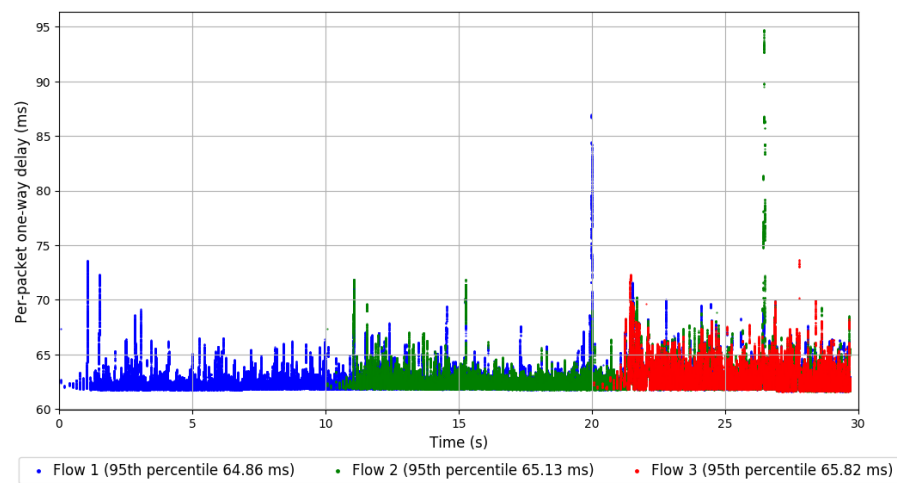
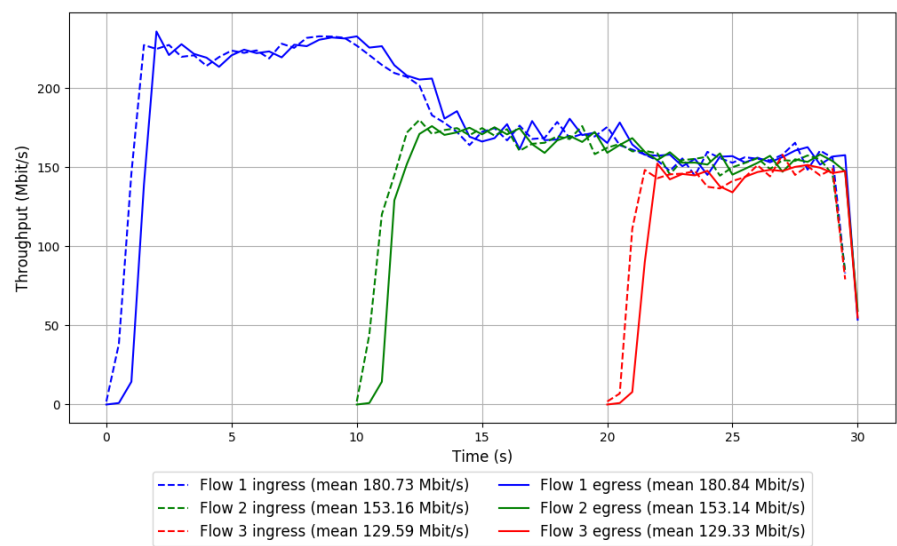


Run 7: Statistics of Indigo

Start at: 2018-05-23 12:31:36
End at: 2018-05-23 12:32:06
Local clock offset: -0.038 ms
Remote clock offset: -0.181 ms

Below is generated by plot.py at 2018-05-23 15:09:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 324.20 Mbit/s
95th percentile per-packet one-way delay: 65.138 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 180.84 Mbit/s
95th percentile per-packet one-way delay: 64.865 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 153.14 Mbit/s
95th percentile per-packet one-way delay: 65.132 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 129.33 Mbit/s
95th percentile per-packet one-way delay: 65.817 ms
Loss rate: 1.60%

Run 7: Report of Indigo — Data Link

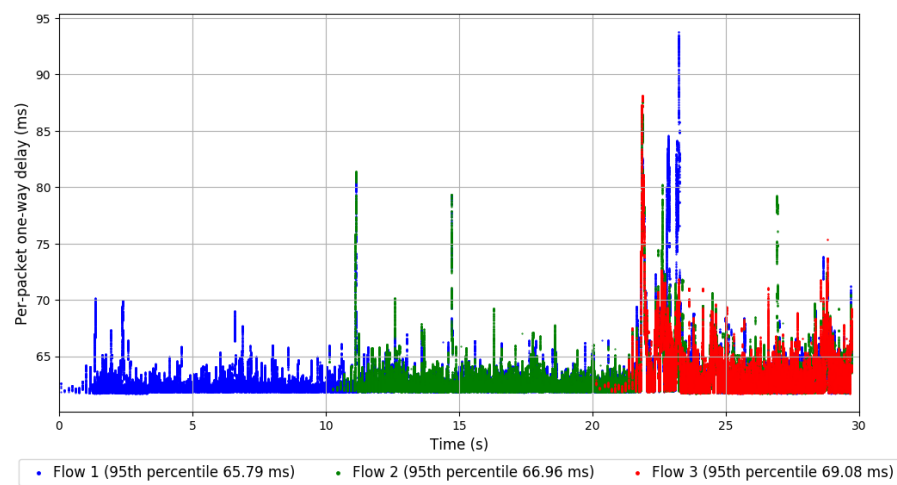
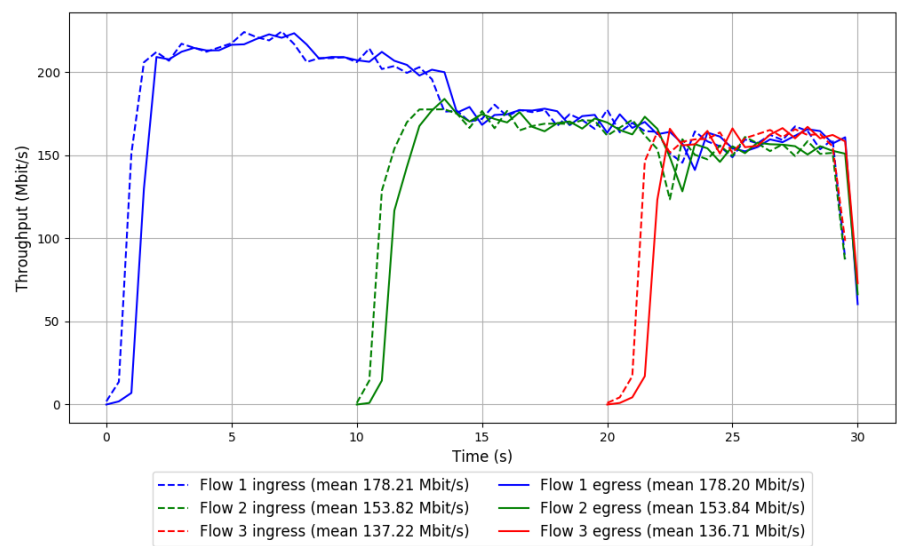


Run 8: Statistics of Indigo

Start at: 2018-05-23 12:53:59
End at: 2018-05-23 12:54:29
Local clock offset: 0.037 ms
Remote clock offset: -0.208 ms

Below is generated by plot.py at 2018-05-23 15:09:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 324.01 Mbit/s
95th percentile per-packet one-way delay: 66.897 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 178.20 Mbit/s
95th percentile per-packet one-way delay: 65.787 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 153.84 Mbit/s
95th percentile per-packet one-way delay: 66.958 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 136.71 Mbit/s
95th percentile per-packet one-way delay: 69.076 ms
Loss rate: 1.65%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-05-23 13:16:33

End at: 2018-05-23 13:17:03

Local clock offset: -0.145 ms

Remote clock offset: 0.146 ms

Below is generated by plot.py at 2018-05-23 15:09:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.95 Mbit/s

95th percentile per-packet one-way delay: 67.482 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 175.02 Mbit/s

95th percentile per-packet one-way delay: 67.747 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 148.63 Mbit/s

95th percentile per-packet one-way delay: 64.973 ms

Loss rate: 0.64%

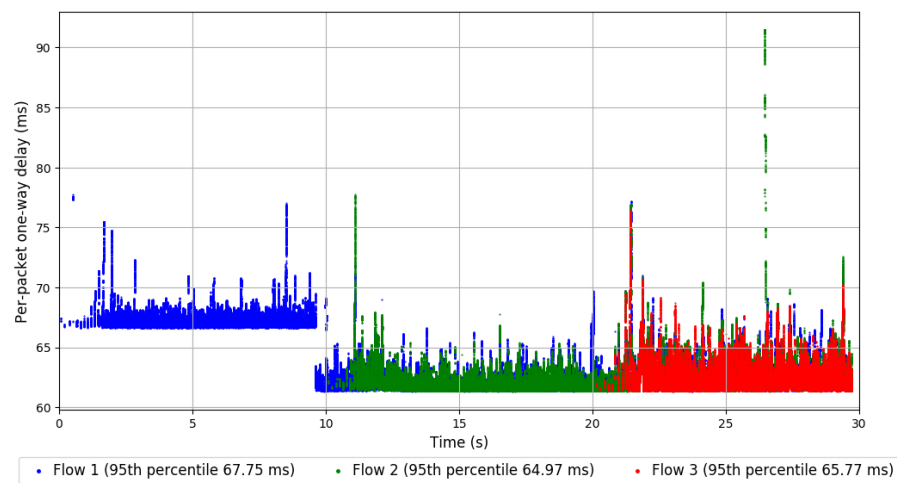
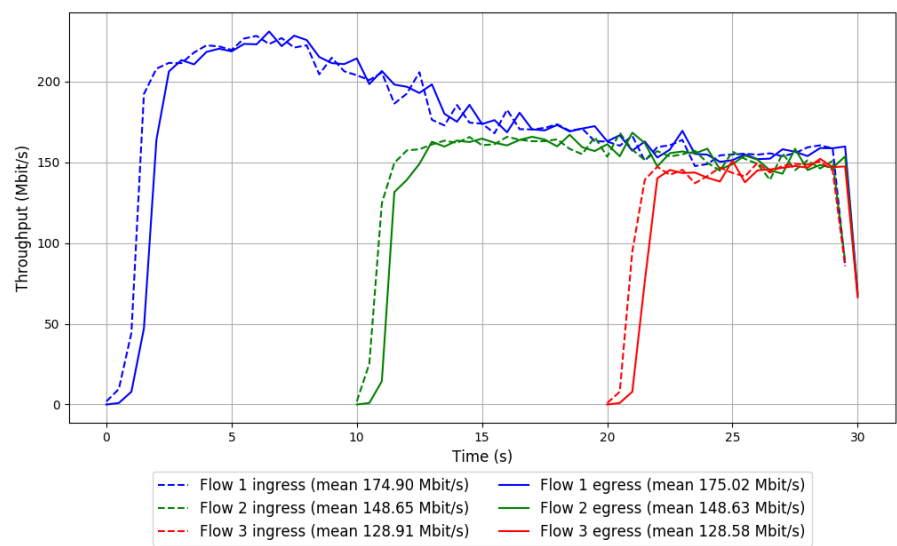
-- Flow 3:

Average throughput: 128.58 Mbit/s

95th percentile per-packet one-way delay: 65.769 ms

Loss rate: 1.53%

Run 9: Report of Indigo — Data Link

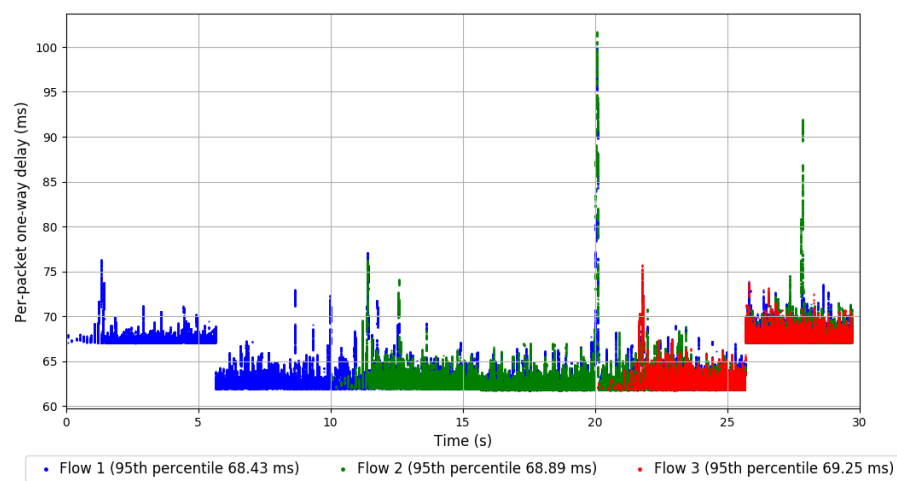
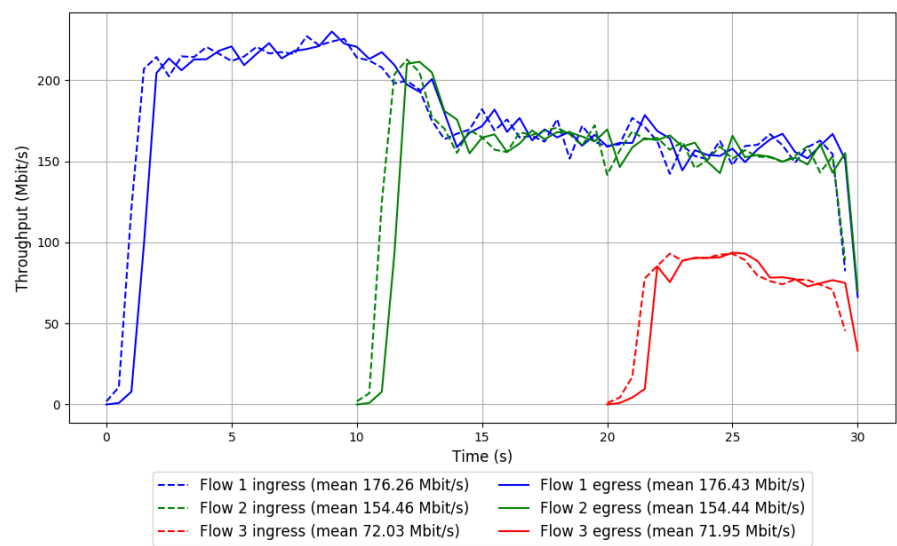


Run 10: Statistics of Indigo

Start at: 2018-05-23 13:38:37
End at: 2018-05-23 13:39:07
Local clock offset: 0.146 ms
Remote clock offset: -0.248 ms

Below is generated by plot.py at 2018-05-23 15:09:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 301.96 Mbit/s
95th percentile per-packet one-way delay: 68.692 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 176.43 Mbit/s
95th percentile per-packet one-way delay: 68.426 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 154.44 Mbit/s
95th percentile per-packet one-way delay: 68.887 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 71.95 Mbit/s
95th percentile per-packet one-way delay: 69.249 ms
Loss rate: 1.34%

Run 10: Report of Indigo — Data Link

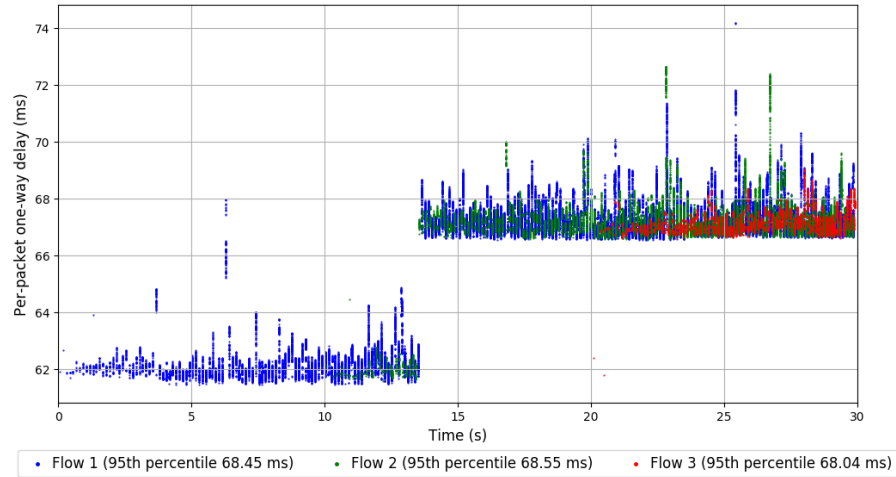
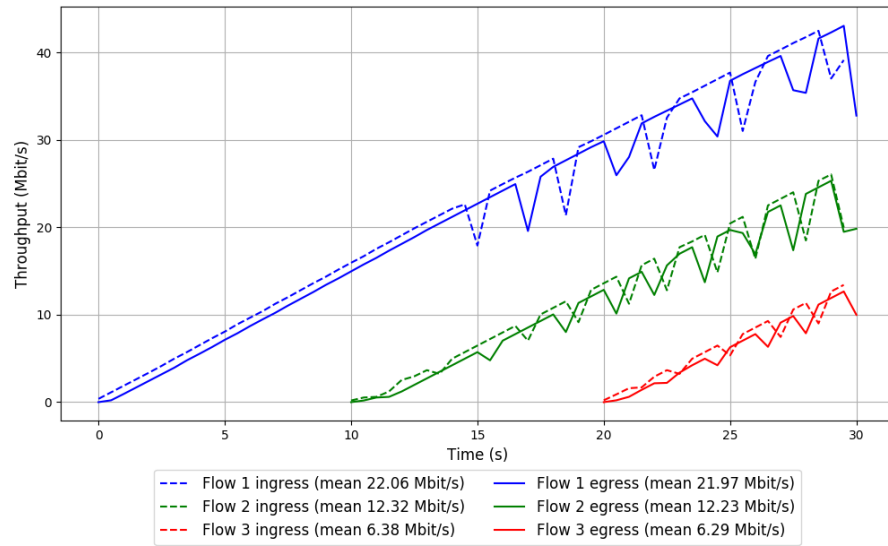


```
Run 1: Statistics of LEDBAT

Start at: 2018-05-23 10:21:49
End at: 2018-05-23 10:22:19
Local clock offset: -0.23 ms
Remote clock offset: 0.125 ms

# Below is generated by plot.py at 2018-05-23 15:09:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 32.10 Mbit/s
95th percentile per-packet one-way delay: 68.433 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 21.97 Mbit/s
95th percentile per-packet one-way delay: 68.447 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 12.23 Mbit/s
95th percentile per-packet one-way delay: 68.553 ms
Loss rate: 1.37%
-- Flow 3:
Average throughput: 6.29 Mbit/s
95th percentile per-packet one-way delay: 68.042 ms
Loss rate: 2.70%
```

Run 1: Report of LEDBAT — Data Link

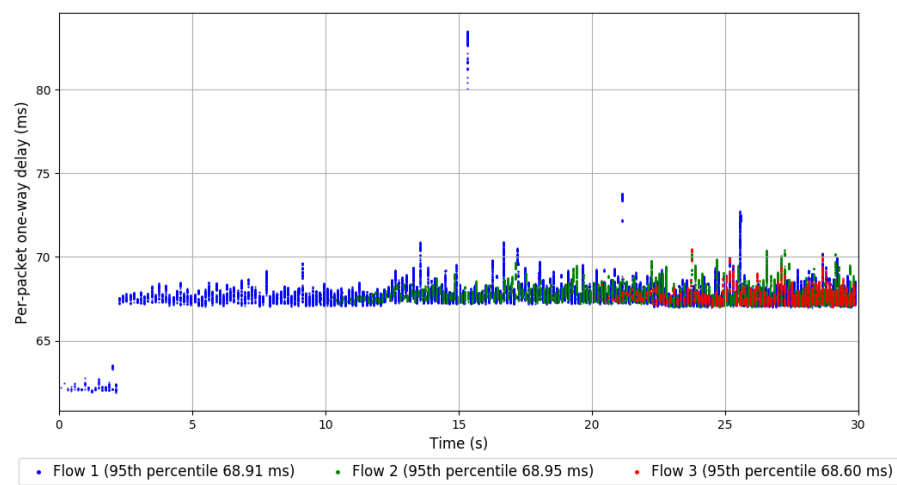
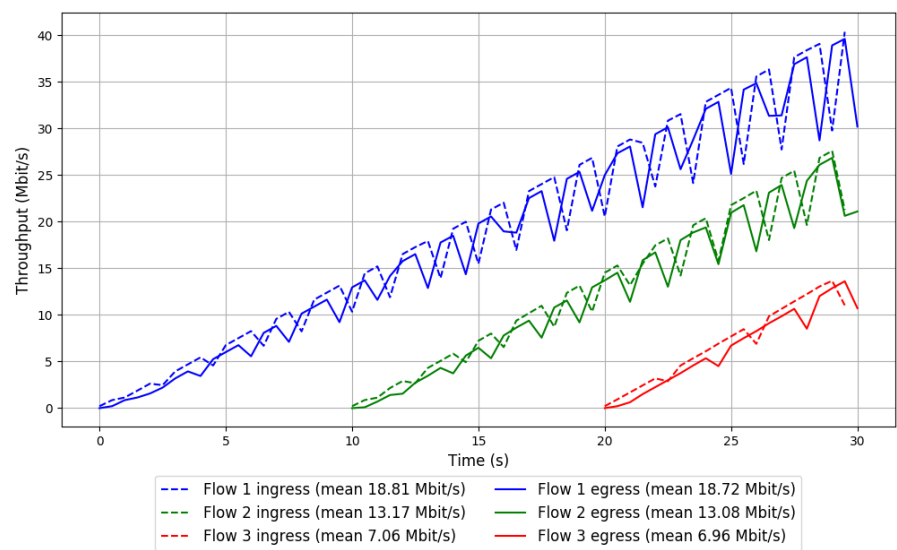


Run 2: Statistics of LEDBAT

Start at: 2018-05-23 10:44:11
End at: 2018-05-23 10:44:41
Local clock offset: -0.042 ms
Remote clock offset: -0.333 ms

Below is generated by plot.py at 2018-05-23 15:09:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 29.64 Mbit/s
95th percentile per-packet one-way delay: 68.902 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 18.72 Mbit/s
95th percentile per-packet one-way delay: 68.912 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 13.08 Mbit/s
95th percentile per-packet one-way delay: 68.946 ms
Loss rate: 1.37%
-- Flow 3:
Average throughput: 6.96 Mbit/s
95th percentile per-packet one-way delay: 68.596 ms
Loss rate: 2.64%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-05-23 11:06:16

End at: 2018-05-23 11:06:46

Local clock offset: 0.068 ms

Remote clock offset: 0.142 ms

Below is generated by plot.py at 2018-05-23 15:09:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 32.08 Mbit/s

95th percentile per-packet one-way delay: 67.858 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 21.98 Mbit/s

95th percentile per-packet one-way delay: 67.823 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 11.92 Mbit/s

95th percentile per-packet one-way delay: 67.844 ms

Loss rate: 0.64%

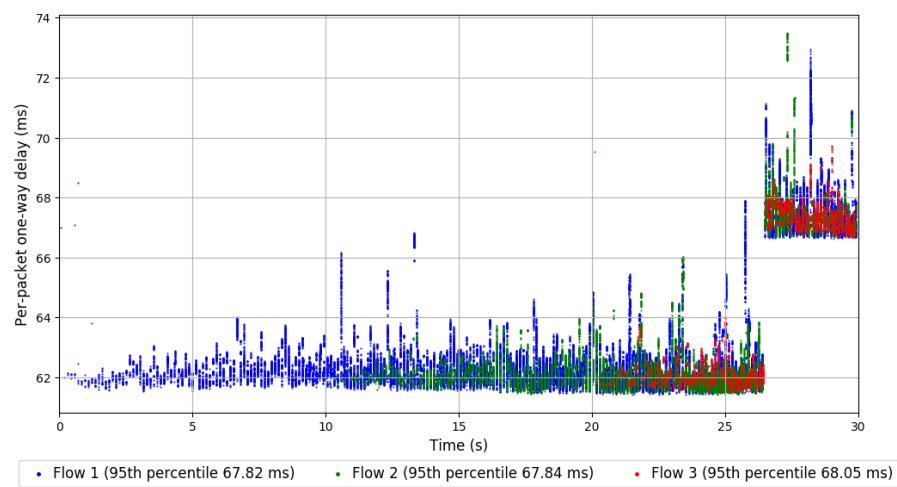
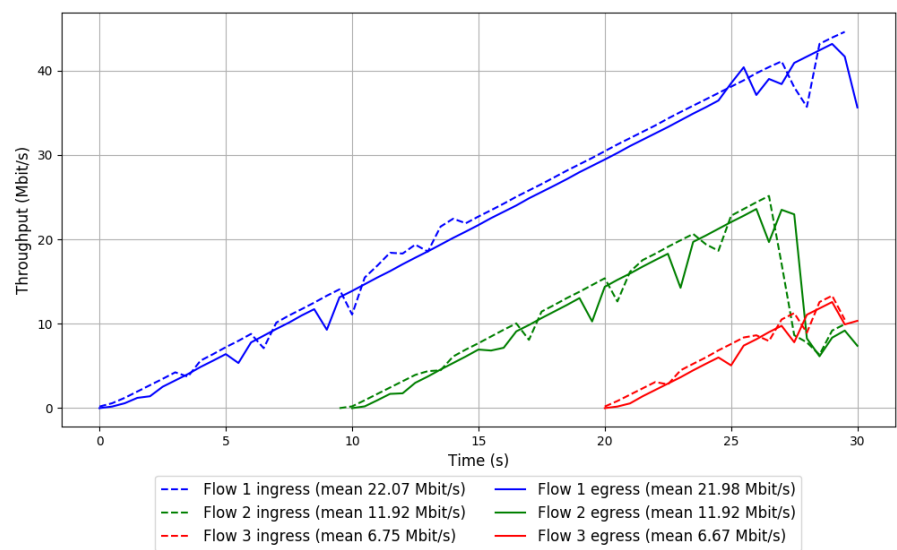
-- Flow 3:

Average throughput: 6.67 Mbit/s

95th percentile per-packet one-way delay: 68.048 ms

Loss rate: 2.66%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-05-23 11:28:55

End at: 2018-05-23 11:29:25

Local clock offset: -0.109 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at 2018-05-23 15:09:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 32.09 Mbit/s

95th percentile per-packet one-way delay: 68.244 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 21.31 Mbit/s

95th percentile per-packet one-way delay: 68.180 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 12.97 Mbit/s

95th percentile per-packet one-way delay: 68.597 ms

Loss rate: 1.34%

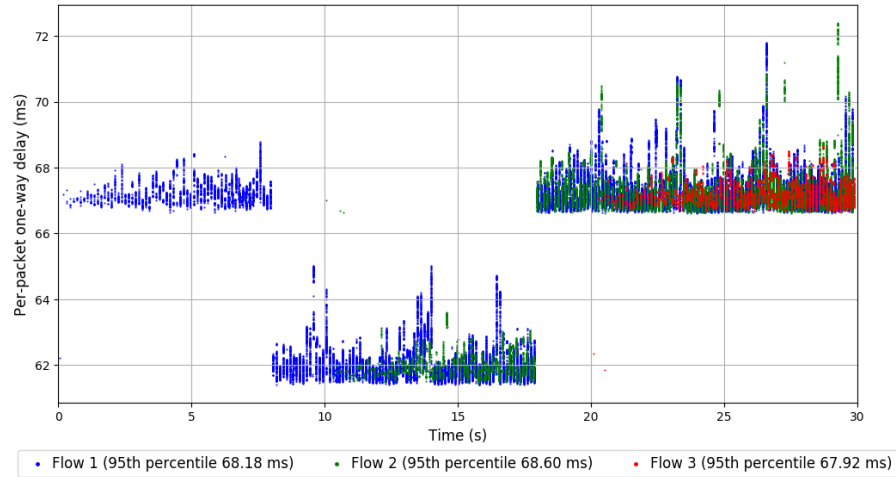
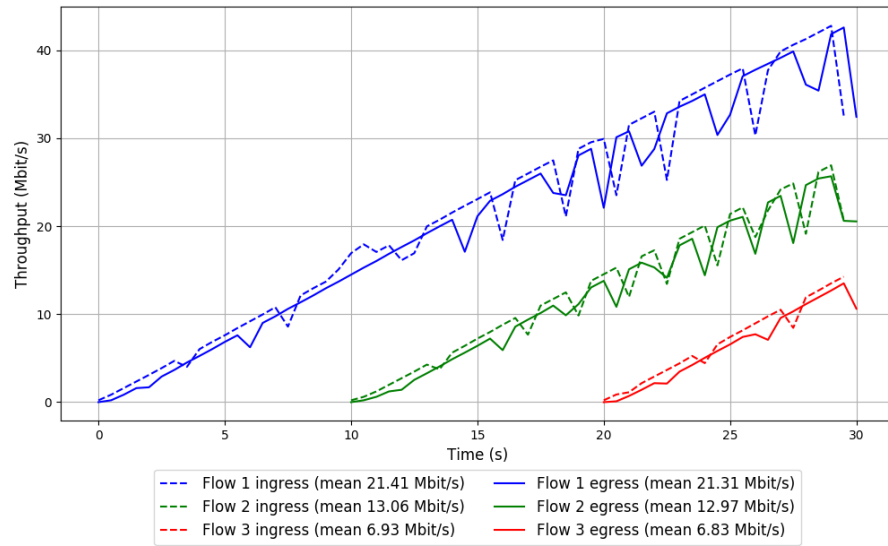
-- Flow 3:

Average throughput: 6.83 Mbit/s

95th percentile per-packet one-way delay: 67.925 ms

Loss rate: 2.65%

Run 4: Report of LEDBAT — Data Link

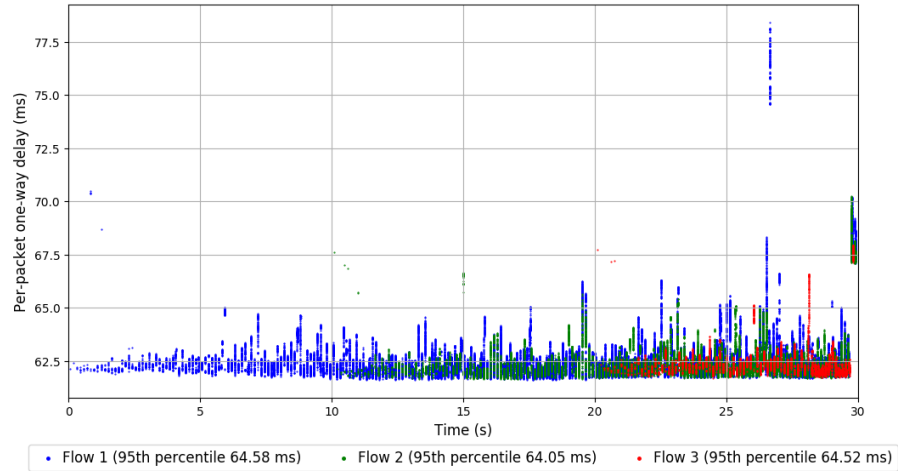
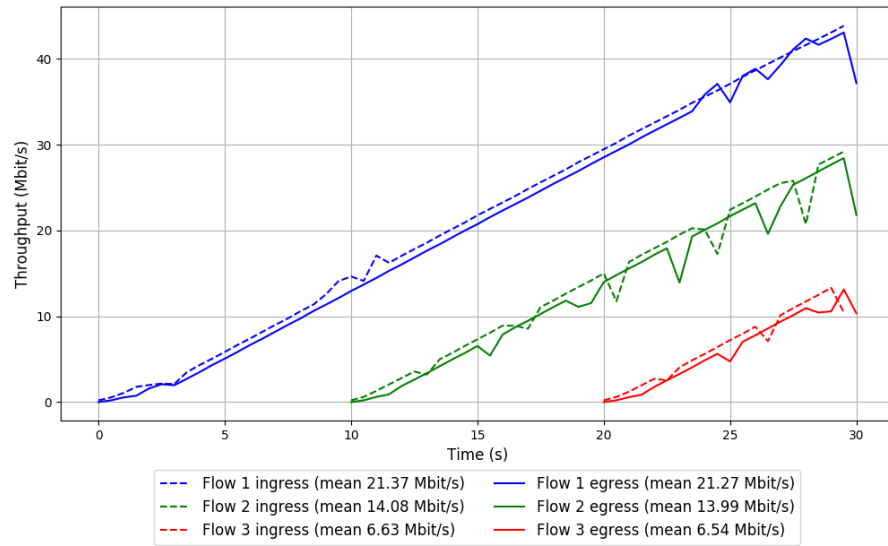


Run 5: Statistics of LEDBAT

Start at: 2018-05-23 11:51:13
End at: 2018-05-23 11:51:43
Local clock offset: -0.193 ms
Remote clock offset: -0.182 ms

Below is generated by plot.py at 2018-05-23 15:09:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 32.69 Mbit/s
95th percentile per-packet one-way delay: 64.491 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 21.27 Mbit/s
95th percentile per-packet one-way delay: 64.578 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 13.99 Mbit/s
95th percentile per-packet one-way delay: 64.050 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 6.54 Mbit/s
95th percentile per-packet one-way delay: 64.517 ms
Loss rate: 2.71%

Run 5: Report of LEDBAT — Data Link

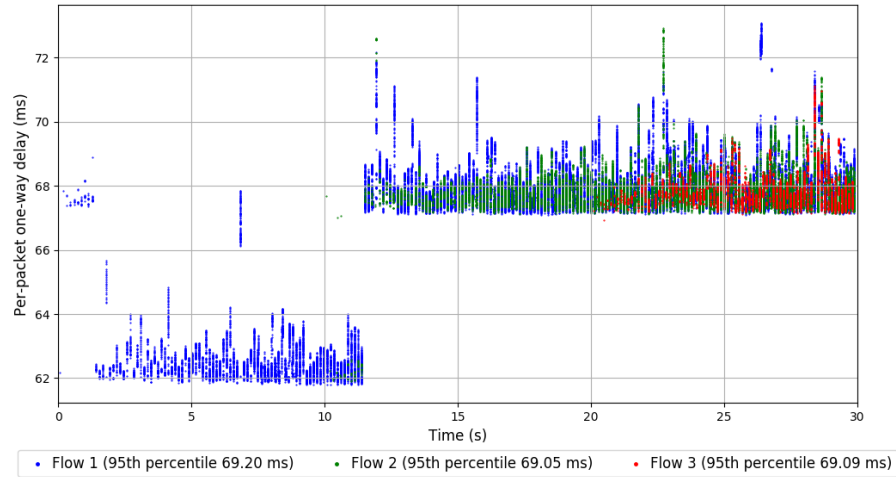
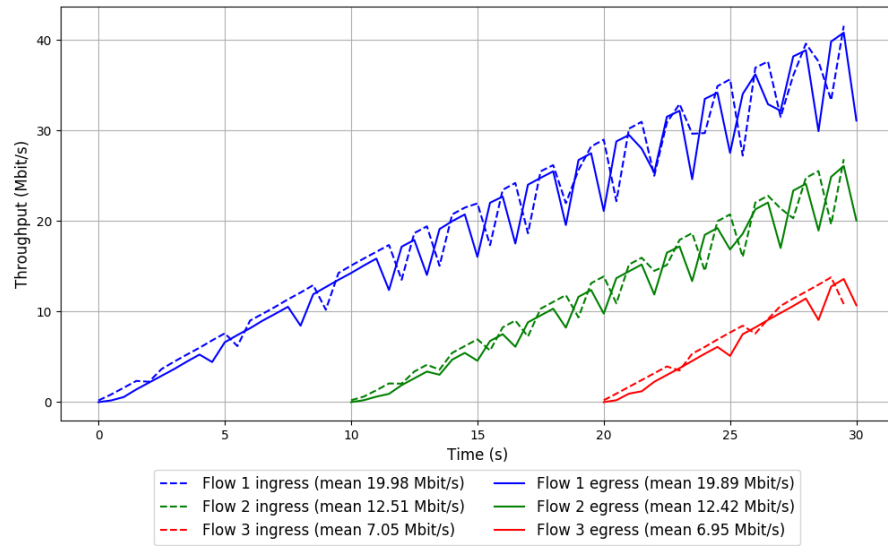


Run 6: Statistics of LEDBAT

Start at: 2018-05-23 12:13:21
End at: 2018-05-23 12:13:51
Local clock offset: -0.21 ms
Remote clock offset: -0.145 ms

Below is generated by plot.py at 2018-05-23 15:09:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 30.41 Mbit/s
95th percentile per-packet one-way delay: 69.142 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 19.89 Mbit/s
95th percentile per-packet one-way delay: 69.198 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 12.42 Mbit/s
95th percentile per-packet one-way delay: 69.045 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 6.95 Mbit/s
95th percentile per-packet one-way delay: 69.089 ms
Loss rate: 2.63%

Run 6: Report of LEDBAT — Data Link

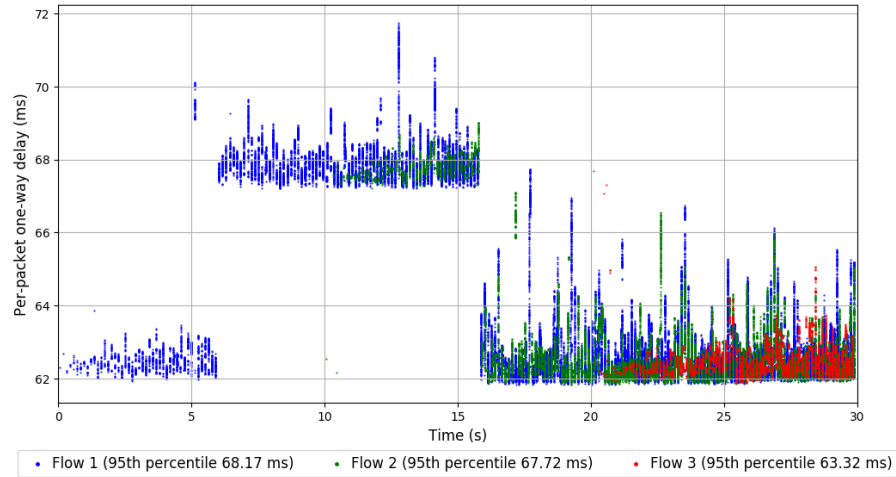
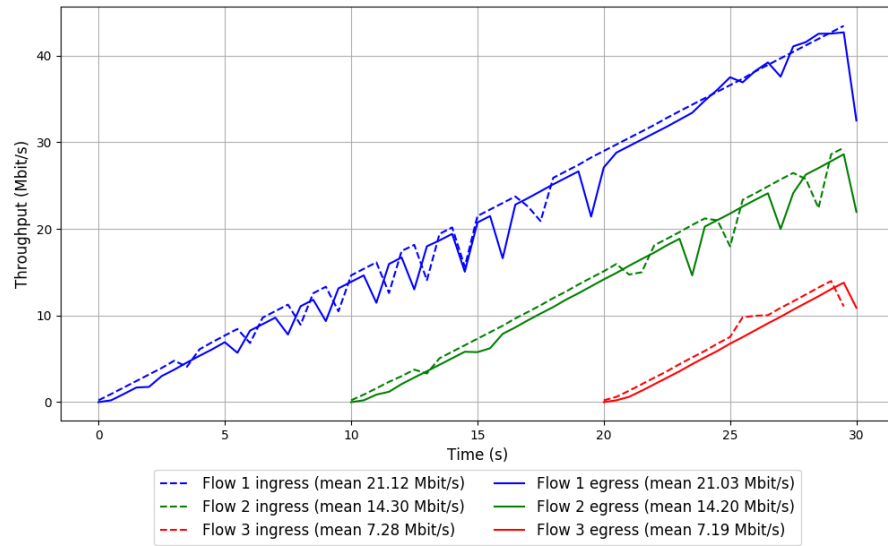


Run 7: Statistics of LEDBAT

Start at: 2018-05-23 12:35:47
End at: 2018-05-23 12:36:17
Local clock offset: -0.02 ms
Remote clock offset: -0.287 ms

Below is generated by plot.py at 2018-05-23 15:09:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 32.80 Mbit/s
95th percentile per-packet one-way delay: 68.048 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 21.03 Mbit/s
95th percentile per-packet one-way delay: 68.167 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 14.20 Mbit/s
95th percentile per-packet one-way delay: 67.718 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 7.19 Mbit/s
95th percentile per-packet one-way delay: 63.319 ms
Loss rate: 2.60%

Run 7: Report of LEDBAT — Data Link

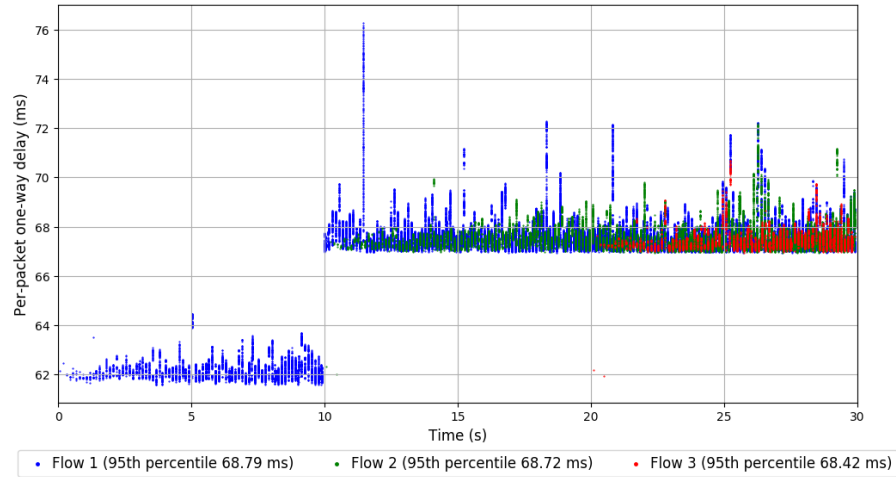
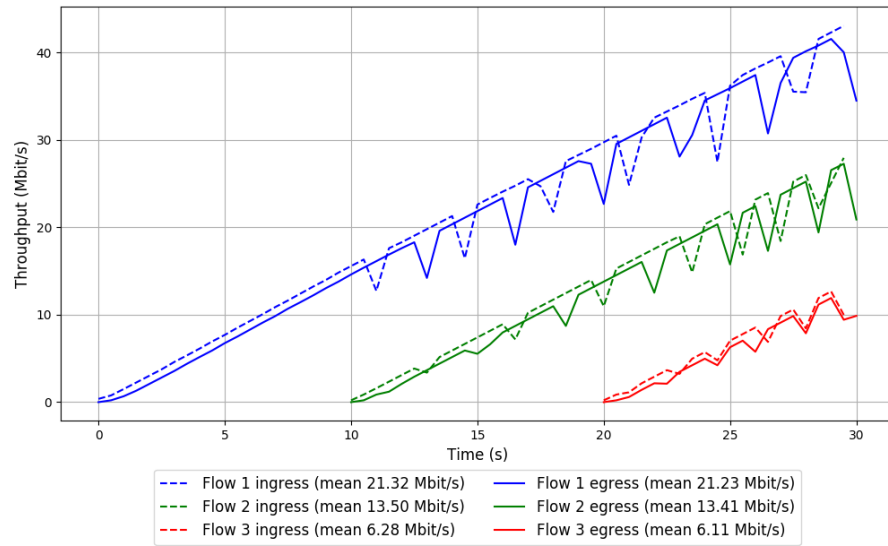


Run 8: Statistics of LEDBAT

Start at: 2018-05-23 12:58:13
End at: 2018-05-23 12:58:43
Local clock offset: -0.064 ms
Remote clock offset: -0.045 ms

Below is generated by plot.py at 2018-05-23 15:09:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 32.12 Mbit/s
95th percentile per-packet one-way delay: 68.745 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 21.23 Mbit/s
95th percentile per-packet one-way delay: 68.791 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 13.41 Mbit/s
95th percentile per-packet one-way delay: 68.723 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 6.11 Mbit/s
95th percentile per-packet one-way delay: 68.424 ms
Loss rate: 2.72%

Run 8: Report of LEDBAT — Data Link

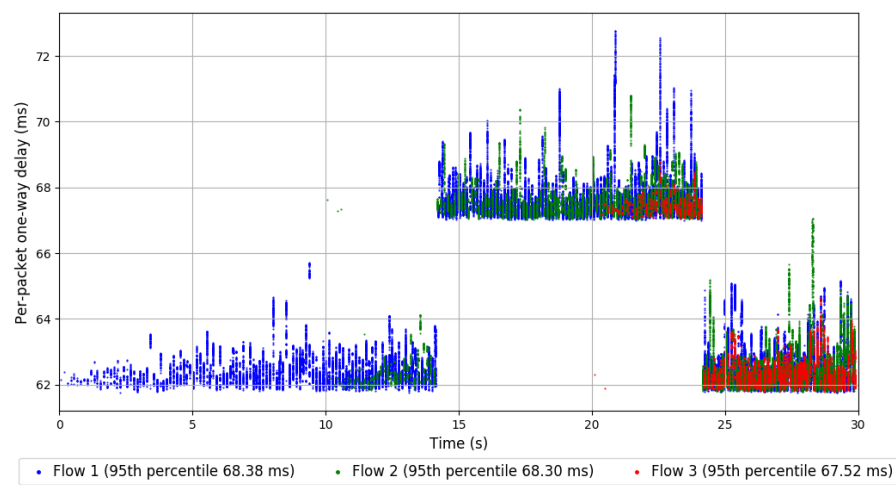
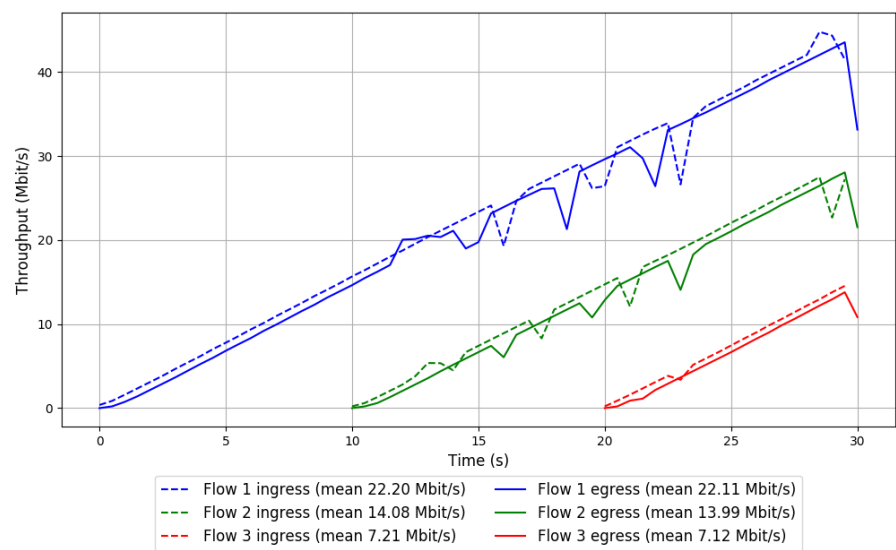


Run 9: Statistics of LEDBAT

Start at: 2018-05-23 13:20:39
End at: 2018-05-23 13:21:09
Local clock offset: -0.116 ms
Remote clock offset: -0.274 ms

Below is generated by plot.py at 2018-05-23 15:09:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 33.68 Mbit/s
95th percentile per-packet one-way delay: 68.305 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 22.11 Mbit/s
95th percentile per-packet one-way delay: 68.382 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 13.99 Mbit/s
95th percentile per-packet one-way delay: 68.297 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 7.12 Mbit/s
95th percentile per-packet one-way delay: 67.522 ms
Loss rate: 2.59%

Run 9: Report of LEDBAT — Data Link

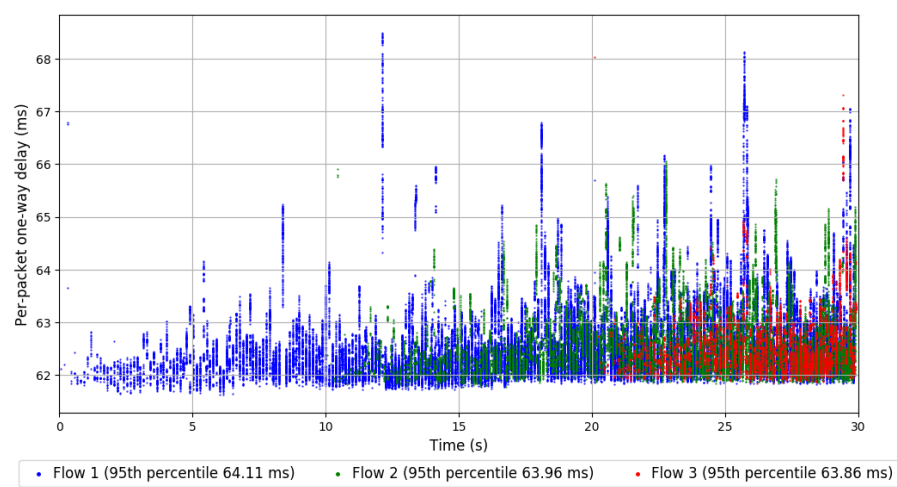
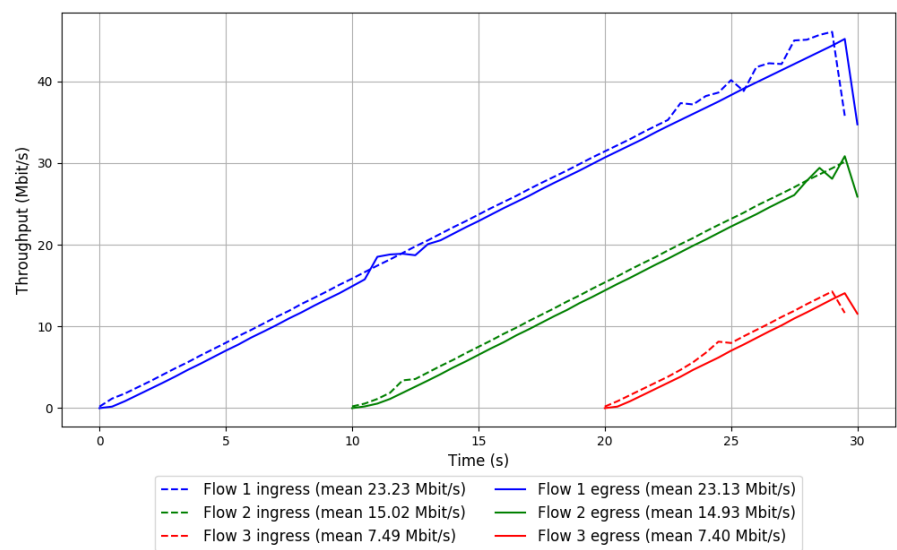


Run 10: Statistics of LEDBAT

Start at: 2018-05-23 13:42:46
End at: 2018-05-23 13:43:16
Local clock offset: 0.273 ms
Remote clock offset: -0.061 ms

Below is generated by plot.py at 2018-05-23 15:09:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 35.48 Mbit/s
95th percentile per-packet one-way delay: 64.041 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 23.13 Mbit/s
95th percentile per-packet one-way delay: 64.109 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 14.93 Mbit/s
95th percentile per-packet one-way delay: 63.963 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 7.40 Mbit/s
95th percentile per-packet one-way delay: 63.859 ms
Loss rate: 2.52%

Run 10: Report of LEDBAT — Data Link

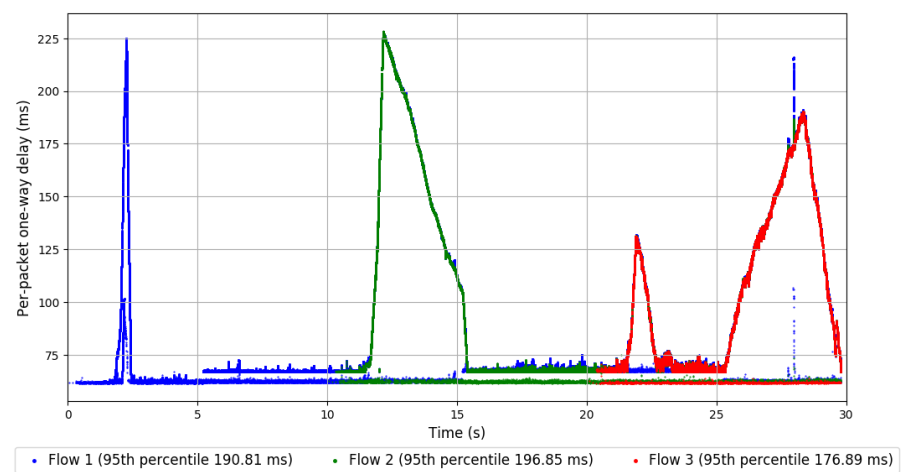
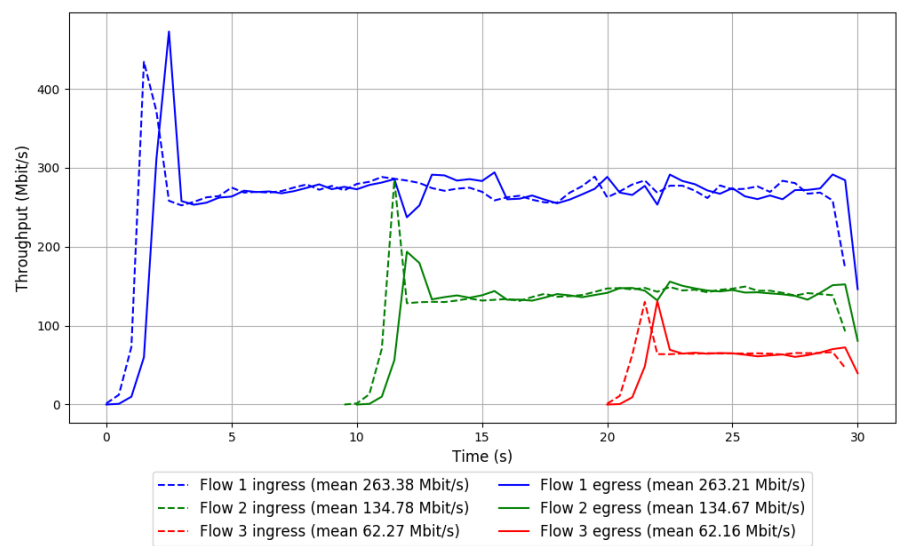


Run 1: Statistics of PCC-Allegro

Start at: 2018-05-23 10:30:57
End at: 2018-05-23 10:31:27
Local clock offset: -0.265 ms
Remote clock offset: -0.195 ms

Below is generated by plot.py at 2018-05-23 15:09:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 372.79 Mbit/s
95th percentile per-packet one-way delay: 190.408 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 263.21 Mbit/s
95th percentile per-packet one-way delay: 190.810 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 134.67 Mbit/s
95th percentile per-packet one-way delay: 196.850 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 62.16 Mbit/s
95th percentile per-packet one-way delay: 176.887 ms
Loss rate: 1.50%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-23 10:53:12

End at: 2018-05-23 10:53:42

Local clock offset: -0.048 ms

Remote clock offset: 0.332 ms

Below is generated by plot.py at 2018-05-23 15:10:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 430.55 Mbit/s

95th percentile per-packet one-way delay: 217.184 ms

Loss rate: 4.46%

-- Flow 1:

Average throughput: 391.76 Mbit/s

95th percentile per-packet one-way delay: 217.642 ms

Loss rate: 4.38%

-- Flow 2:

Average throughput: 57.46 Mbit/s

95th percentile per-packet one-way delay: 214.874 ms

Loss rate: 5.25%

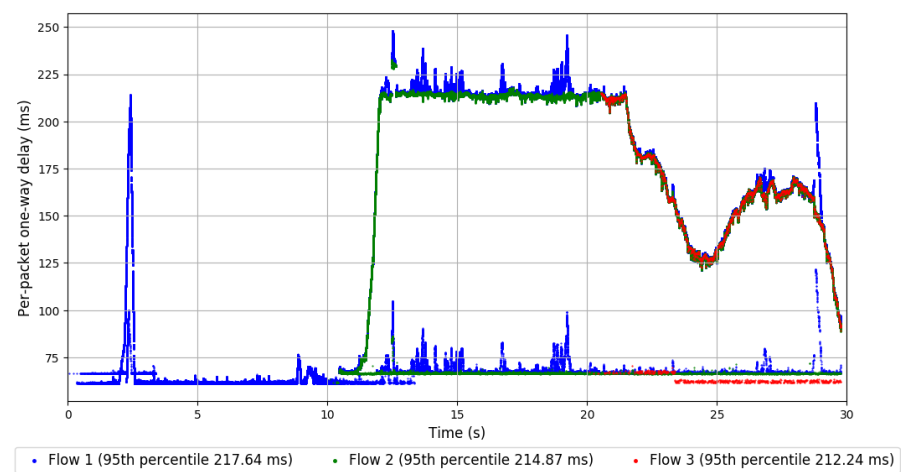
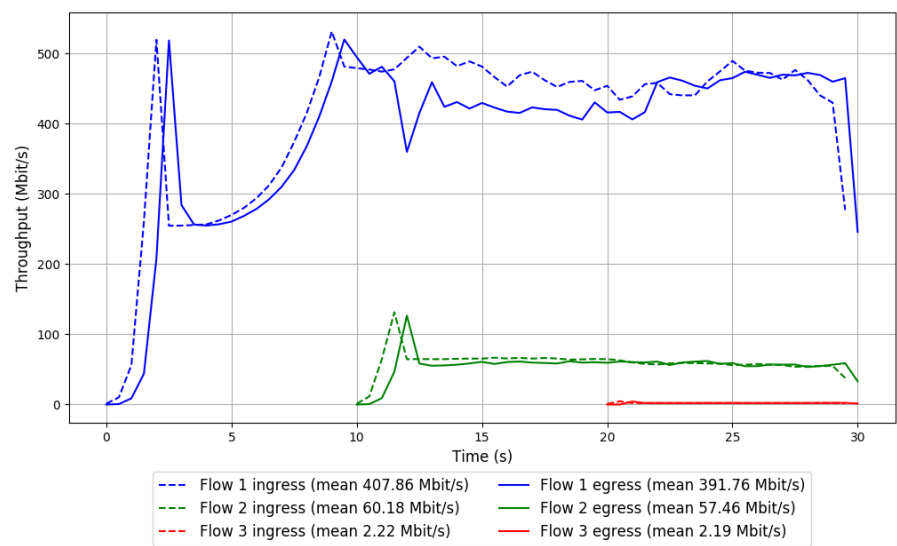
-- Flow 3:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 212.243 ms

Loss rate: 2.45%

Run 2: Report of PCC-Allegro — Data Link

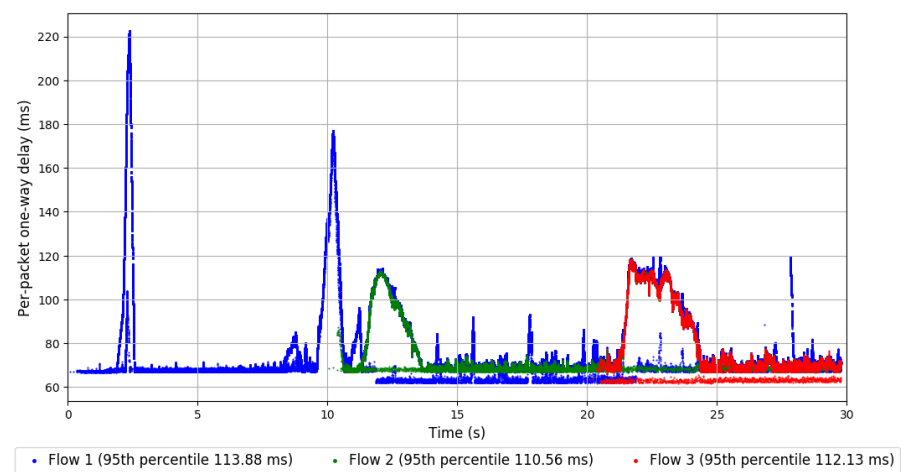
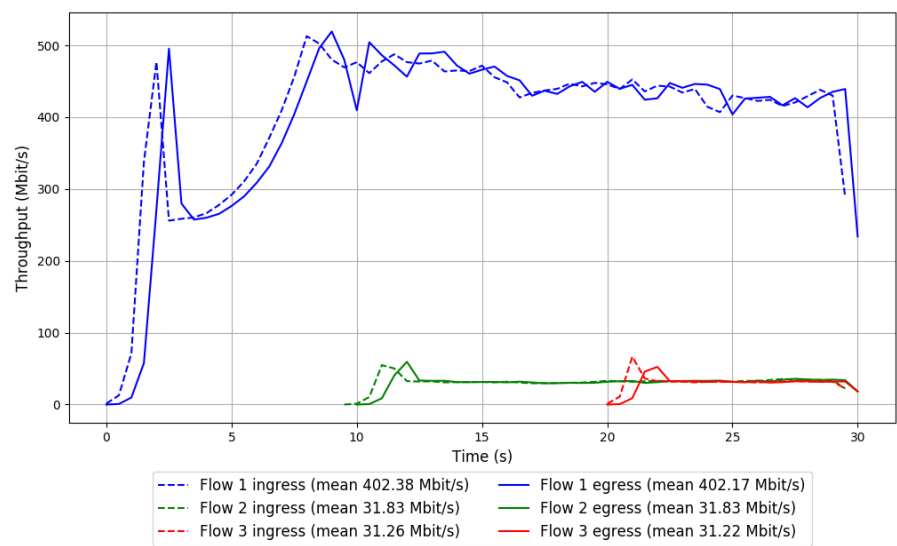


Run 3: Statistics of PCC-Allegro

Start at: 2018-05-23 11:15:51
End at: 2018-05-23 11:16:21
Local clock offset: -0.029 ms
Remote clock offset: -0.196 ms

Below is generated by plot.py at 2018-05-23 15:10:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 433.46 Mbit/s
95th percentile per-packet one-way delay: 113.476 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 402.17 Mbit/s
95th percentile per-packet one-way delay: 113.879 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 31.83 Mbit/s
95th percentile per-packet one-way delay: 110.563 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 31.22 Mbit/s
95th percentile per-packet one-way delay: 112.134 ms
Loss rate: 1.42%

Run 3: Report of PCC-Allegro — Data Link

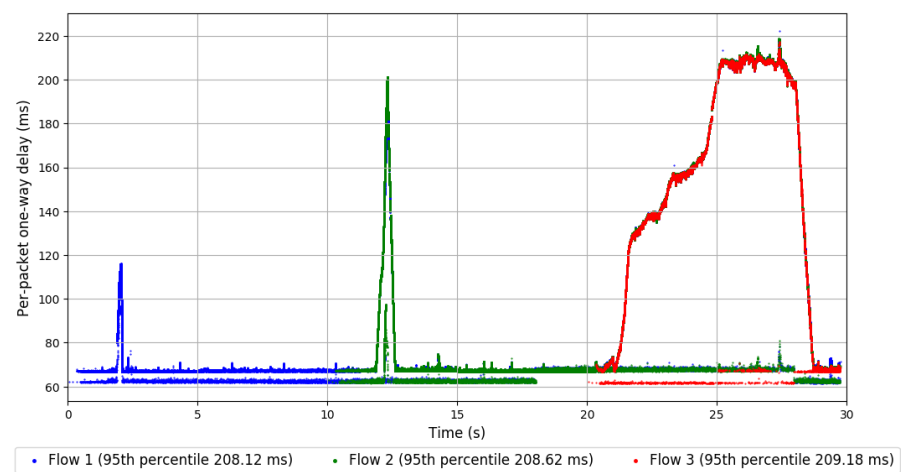
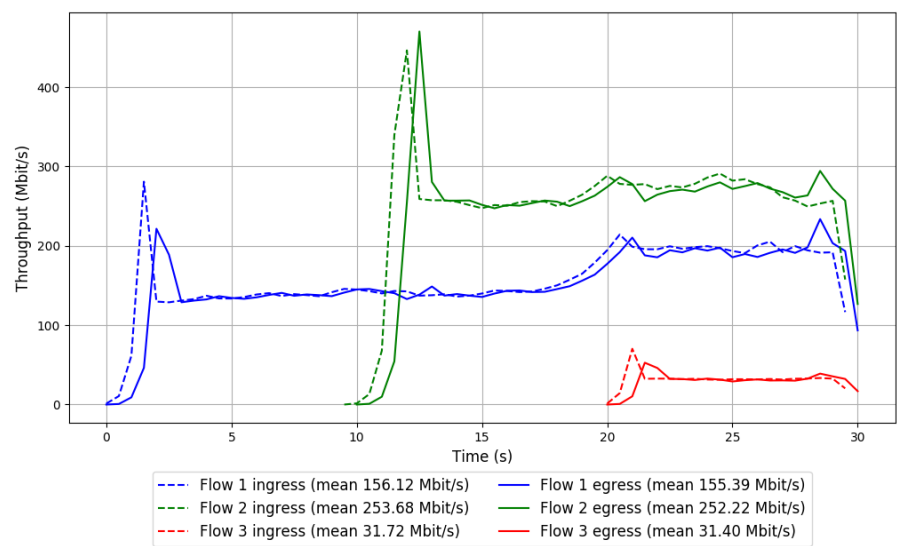


Run 4: Statistics of PCC-Allegro

Start at: 2018-05-23 11:38:18
End at: 2018-05-23 11:38:48
Local clock offset: -0.12 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2018-05-23 15:10:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 333.07 Mbit/s
95th percentile per-packet one-way delay: 208.425 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 155.39 Mbit/s
95th percentile per-packet one-way delay: 208.121 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 252.22 Mbit/s
95th percentile per-packet one-way delay: 208.617 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 31.40 Mbit/s
95th percentile per-packet one-way delay: 209.179 ms
Loss rate: 2.27%

Run 4: Report of PCC-Allegro — Data Link

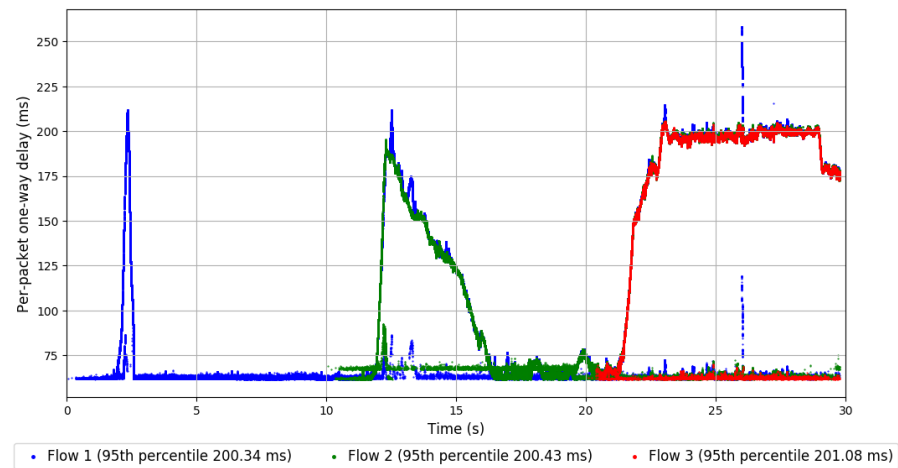
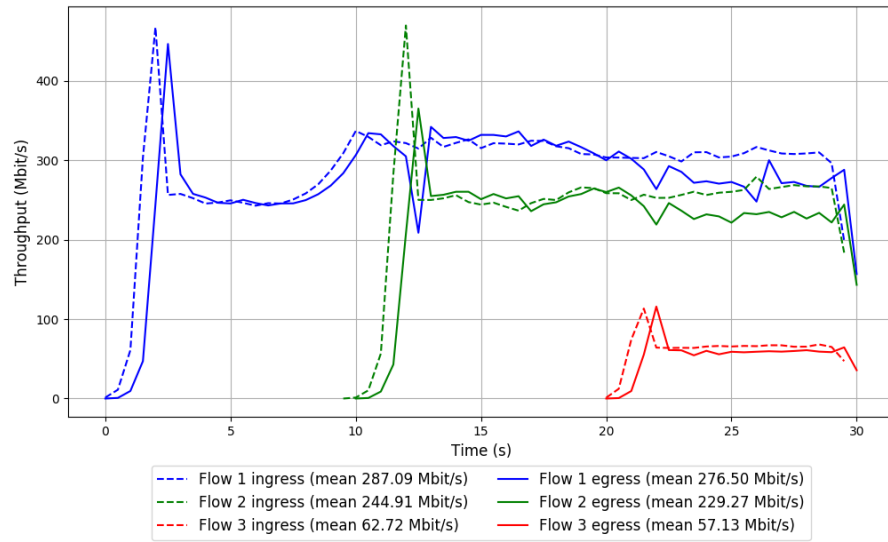


Run 5: Statistics of PCC-Allegro

Start at: 2018-05-23 12:00:36
End at: 2018-05-23 12:01:06
Local clock offset: -0.207 ms
Remote clock offset: -0.156 ms

Below is generated by plot.py at 2018-05-23 15:12:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 447.20 Mbit/s
95th percentile per-packet one-way delay: 200.438 ms
Loss rate: 5.39%
-- Flow 1:
Average throughput: 276.50 Mbit/s
95th percentile per-packet one-way delay: 200.338 ms
Loss rate: 4.11%
-- Flow 2:
Average throughput: 229.27 Mbit/s
95th percentile per-packet one-way delay: 200.427 ms
Loss rate: 7.04%
-- Flow 3:
Average throughput: 57.13 Mbit/s
95th percentile per-packet one-way delay: 201.076 ms
Loss rate: 10.13%

Run 5: Report of PCC-Allegro — Data Link

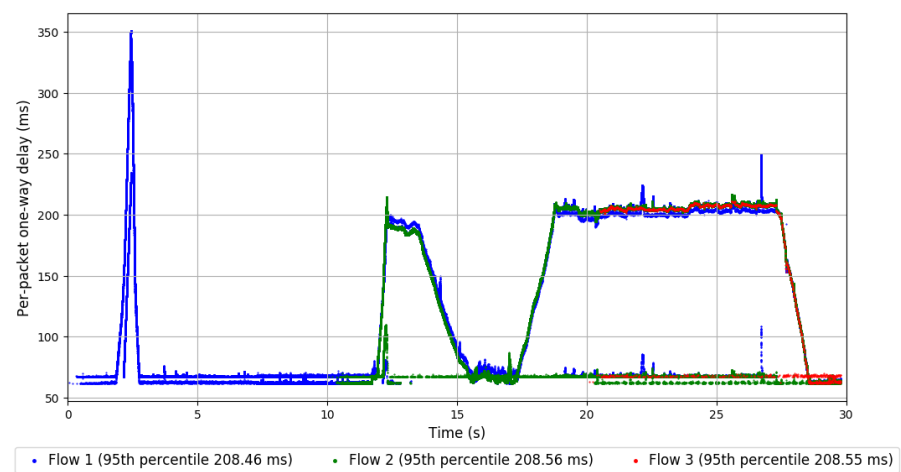
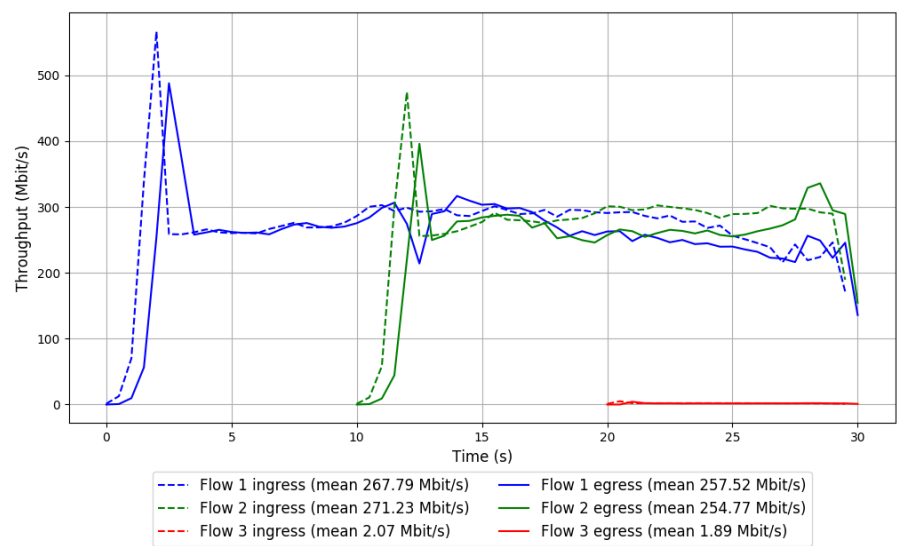


Run 6: Statistics of PCC-Allegro

Start at: 2018-05-23 12:22:35
End at: 2018-05-23 12:23:05
Local clock offset: -0.138 ms
Remote clock offset: -0.211 ms

Below is generated by plot.py at 2018-05-23 15:12:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 427.03 Mbit/s
95th percentile per-packet one-way delay: 208.511 ms
Loss rate: 5.26%
-- Flow 1:
Average throughput: 257.52 Mbit/s
95th percentile per-packet one-way delay: 208.456 ms
Loss rate: 4.26%
-- Flow 2:
Average throughput: 254.77 Mbit/s
95th percentile per-packet one-way delay: 208.561 ms
Loss rate: 6.73%
-- Flow 3:
Average throughput: 1.89 Mbit/s
95th percentile per-packet one-way delay: 208.554 ms
Loss rate: 9.87%

Run 6: Report of PCC-Allegro — Data Link

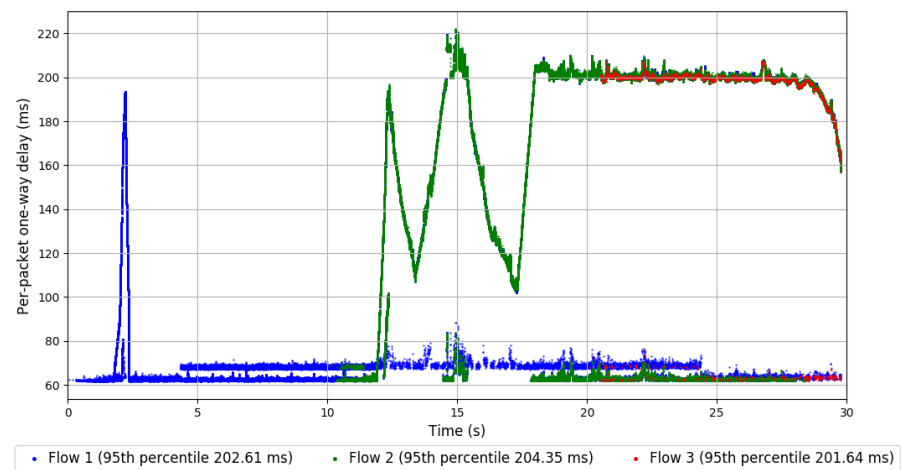
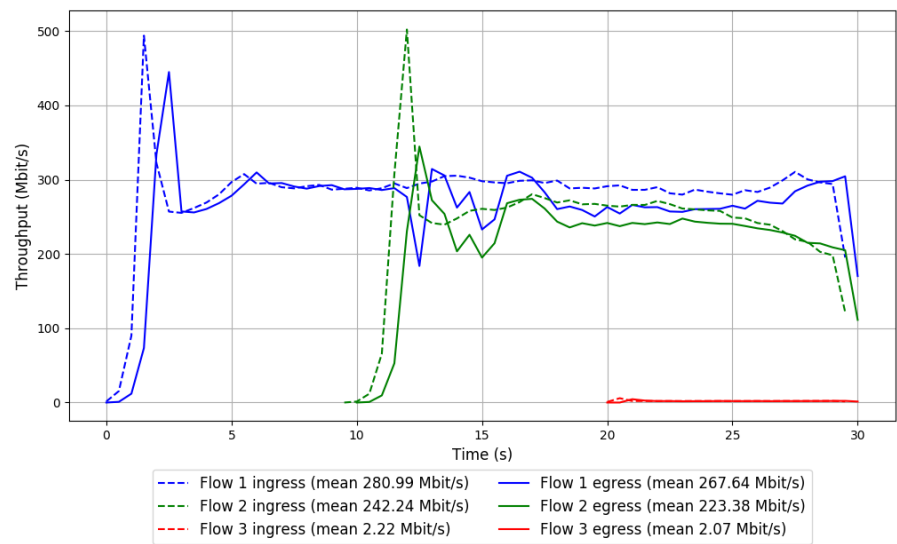


Run 7: Statistics of PCC-Allegro

Start at: 2018-05-23 12:45:01
End at: 2018-05-23 12:45:31
Local clock offset: 0.056 ms
Remote clock offset: -0.042 ms

Below is generated by plot.py at 2018-05-23 15:18:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 416.52 Mbit/s
95th percentile per-packet one-way delay: 203.565 ms
Loss rate: 6.33%
-- Flow 1:
Average throughput: 267.64 Mbit/s
95th percentile per-packet one-way delay: 202.612 ms
Loss rate: 5.15%
-- Flow 2:
Average throughput: 223.38 Mbit/s
95th percentile per-packet one-way delay: 204.346 ms
Loss rate: 8.39%
-- Flow 3:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 201.641 ms
Loss rate: 8.04%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-05-23 13:07:34

End at: 2018-05-23 13:08:04

Local clock offset: -0.112 ms

Remote clock offset: 0.122 ms

Below is generated by plot.py at 2018-05-23 15:18:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 391.84 Mbit/s

95th percentile per-packet one-way delay: 110.099 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 298.12 Mbit/s

95th percentile per-packet one-way delay: 110.190 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 125.86 Mbit/s

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

Loss rate: 0.65%

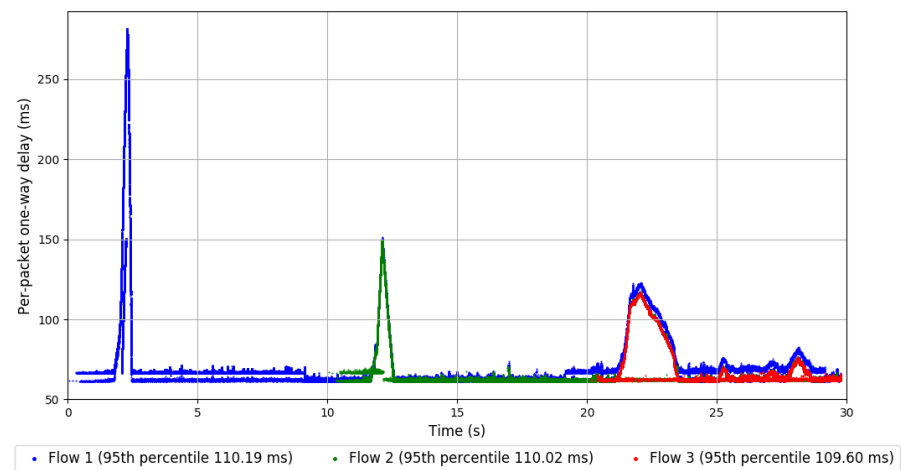
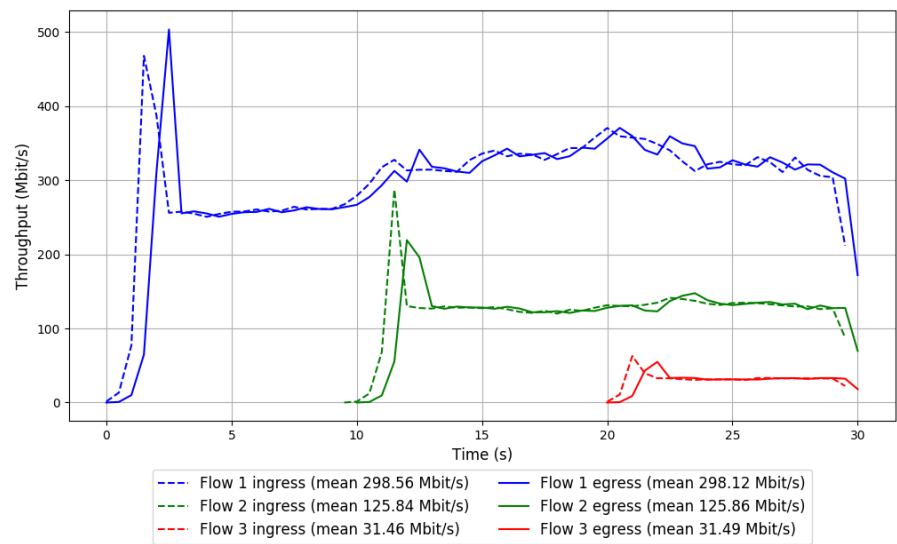
-- Flow 3:

Average throughput: 31.49 Mbit/s

95th percentile per-packet one-way delay: 109.599 ms

Loss rate: 1.36%

Run 8: Report of PCC-Allegro — Data Link

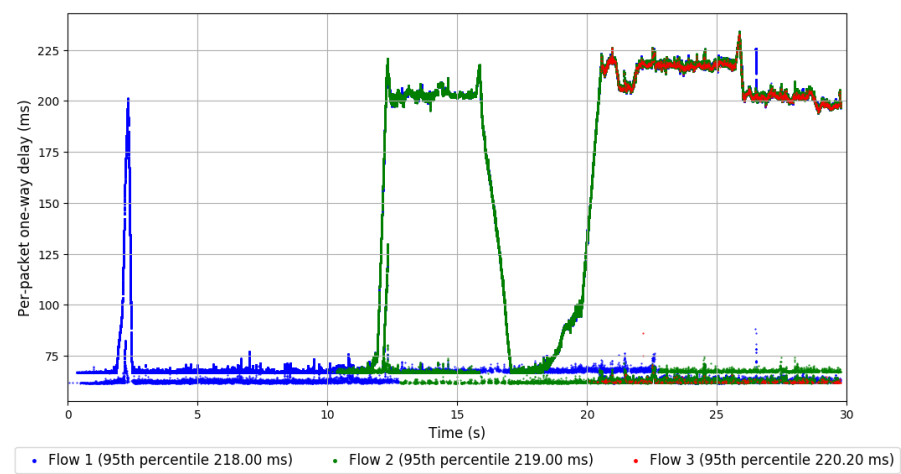
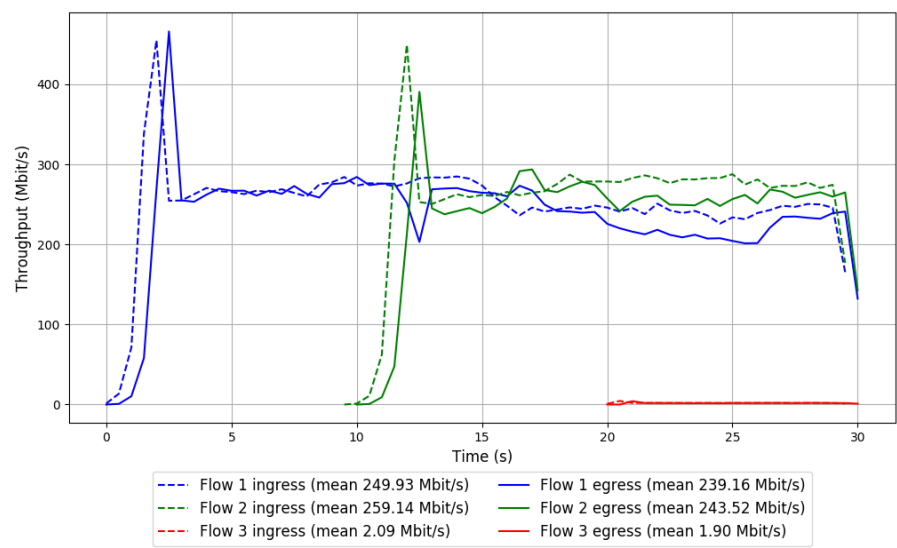


Run 9: Statistics of PCC-Allegro

Start at: 2018-05-23 13:29:43
End at: 2018-05-23 13:30:13
Local clock offset: 0.004 ms
Remote clock offset: -0.121 ms

```
# Below is generated by plot.py at 2018-05-23 15:18:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 401.28 Mbit/s
95th percentile per-packet one-way delay: 218.463 ms
Loss rate: 5.52%
-- Flow 1:
Average throughput: 239.16 Mbit/s
95th percentile per-packet one-way delay: 218.005 ms
Loss rate: 4.73%
-- Flow 2:
Average throughput: 243.52 Mbit/s
95th percentile per-packet one-way delay: 219.001 ms
Loss rate: 6.65%
-- Flow 3:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 220.196 ms
Loss rate: 10.02%
```


Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-05-23 13:52:14

End at: 2018-05-23 13:52:44

Local clock offset: 0.214 ms

Remote clock offset: 0.02 ms

Below is generated by plot.py at 2018-05-23 15:18:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 393.69 Mbit/s

95th percentile per-packet one-way delay: 209.777 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 230.27 Mbit/s

95th percentile per-packet one-way delay: 208.070 ms

Loss rate: 1.26%

-- Flow 2:

Average throughput: 245.38 Mbit/s

95th percentile per-packet one-way delay: 224.942 ms

Loss rate: 2.11%

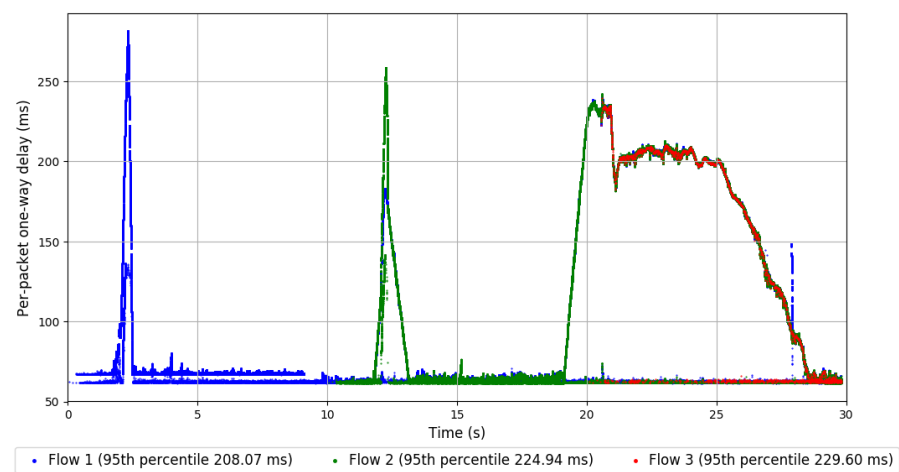
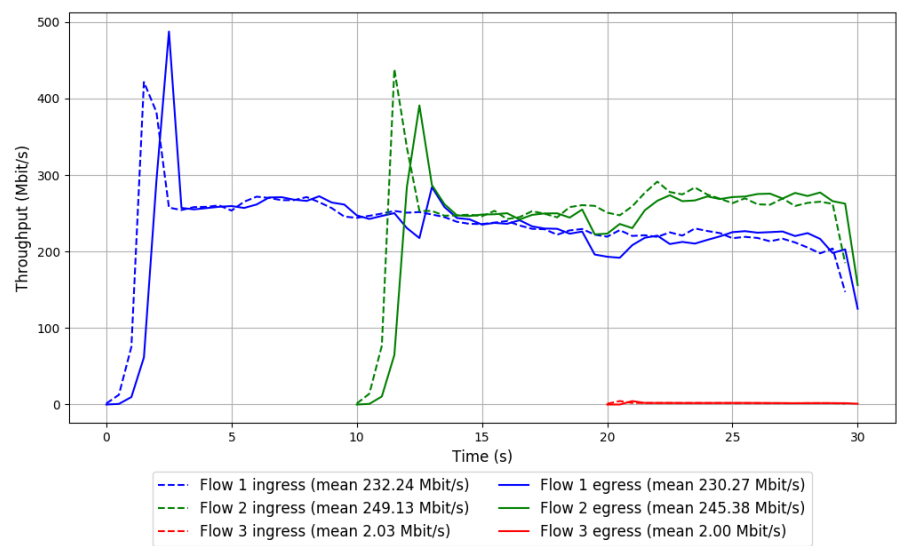
-- Flow 3:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 229.596 ms

Loss rate: 2.86%

Run 10: Report of PCC-Allegro — Data Link

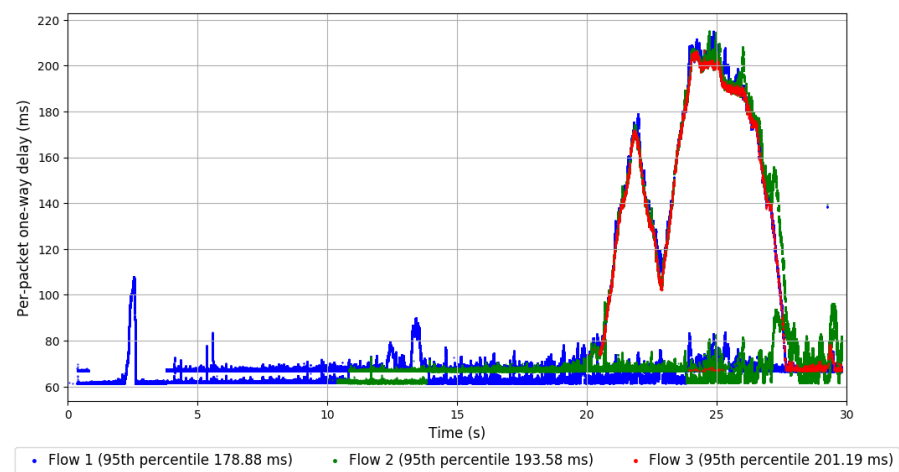
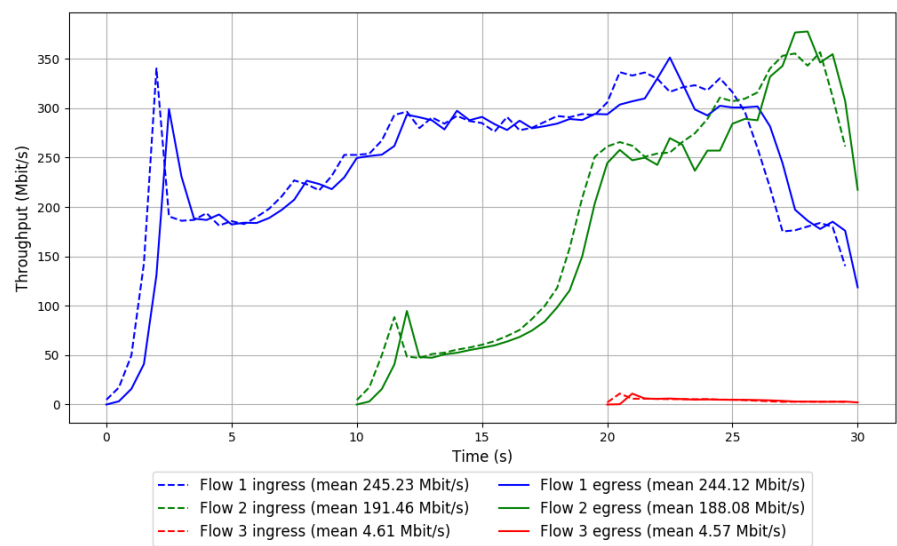


```
Run 1: Statistics of PCC-Expr

Start at: 2018-05-23 10:32:22
End at: 2018-05-23 10:32:52
Local clock offset: -0.277 ms
Remote clock offset: 0.027 ms

# Below is generated by plot.py at 2018-05-23 15:25:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 370.41 Mbit/s
95th percentile per-packet one-way delay: 190.213 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 244.12 Mbit/s
95th percentile per-packet one-way delay: 178.878 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 188.08 Mbit/s
95th percentile per-packet one-way delay: 193.580 ms
Loss rate: 2.41%
-- Flow 3:
Average throughput: 4.57 Mbit/s
95th percentile per-packet one-way delay: 201.193 ms
Loss rate: 2.22%
```

Run 1: Report of PCC-Expr — Data Link

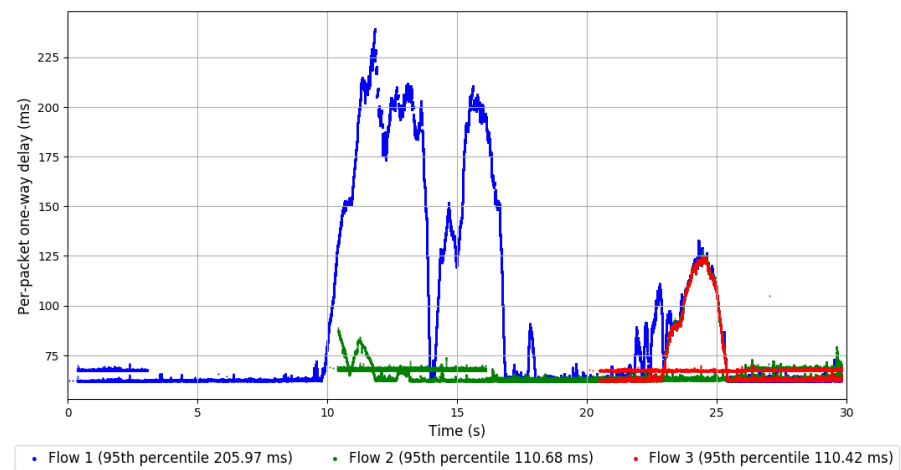
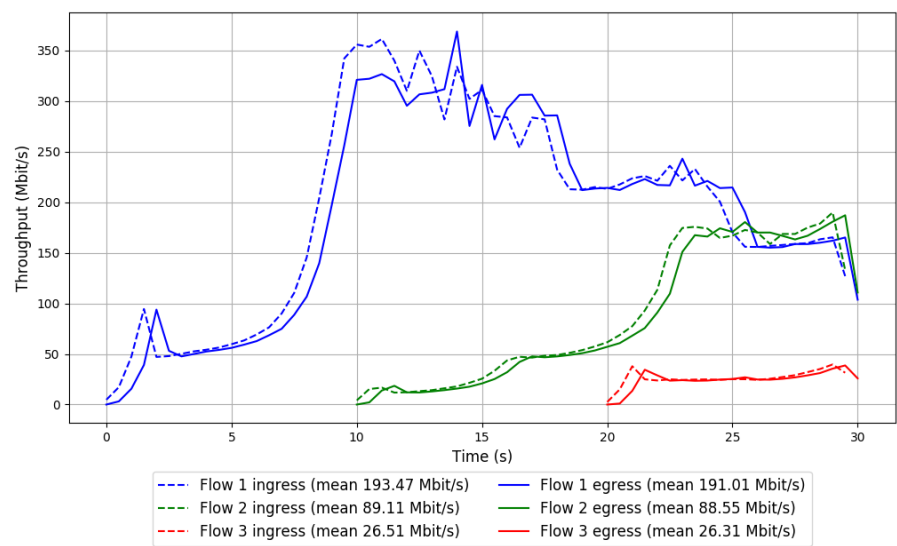


Run 2: Statistics of PCC-Expr

Start at: 2018-05-23 10:54:40
End at: 2018-05-23 10:55:10
Local clock offset: 0.008 ms
Remote clock offset: -0.424 ms

Below is generated by plot.py at 2018-05-23 15:25:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 258.30 Mbit/s
95th percentile per-packet one-way delay: 202.742 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 191.01 Mbit/s
95th percentile per-packet one-way delay: 205.972 ms
Loss rate: 1.70%
-- Flow 2:
Average throughput: 88.55 Mbit/s
95th percentile per-packet one-way delay: 110.677 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 26.31 Mbit/s
95th percentile per-packet one-way delay: 110.425 ms
Loss rate: 2.09%

Run 2: Report of PCC-Expr — Data Link

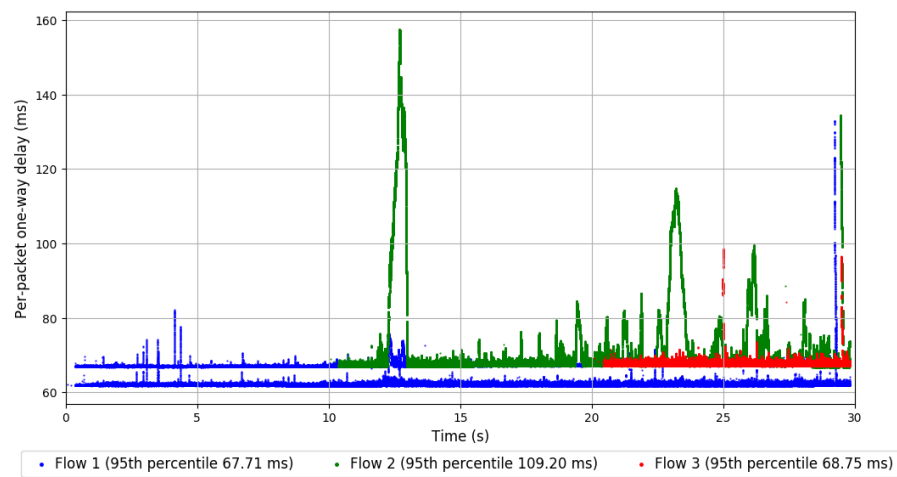
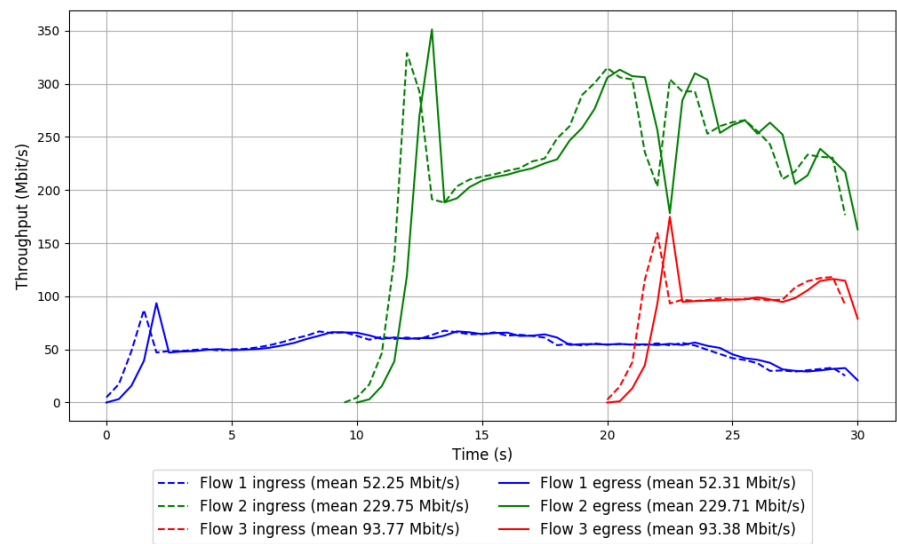


Run 3: Statistics of PCC-Expr

Start at: 2018-05-23 11:17:17
End at: 2018-05-23 11:17:47
Local clock offset: -0.053 ms
Remote clock offset: -0.121 ms

Below is generated by plot.py at 2018-05-23 15:25:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 235.23 Mbit/s
95th percentile per-packet one-way delay: 97.661 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 52.31 Mbit/s
95th percentile per-packet one-way delay: 67.712 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 229.71 Mbit/s
95th percentile per-packet one-way delay: 109.201 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 93.38 Mbit/s
95th percentile per-packet one-way delay: 68.750 ms
Loss rate: 1.77%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-05-23 11:39:42

End at: 2018-05-23 11:40:12

Local clock offset: -0.19 ms

Remote clock offset: 0.237 ms

Below is generated by plot.py at 2018-05-23 15:25:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 293.91 Mbit/s

95th percentile per-packet one-way delay: 203.802 ms

Loss rate: 3.18%

-- Flow 1:

Average throughput: 252.14 Mbit/s

95th percentile per-packet one-way delay: 205.336 ms

Loss rate: 3.54%

-- Flow 2:

Average throughput: 47.51 Mbit/s

95th percentile per-packet one-way delay: 69.272 ms

Loss rate: 0.59%

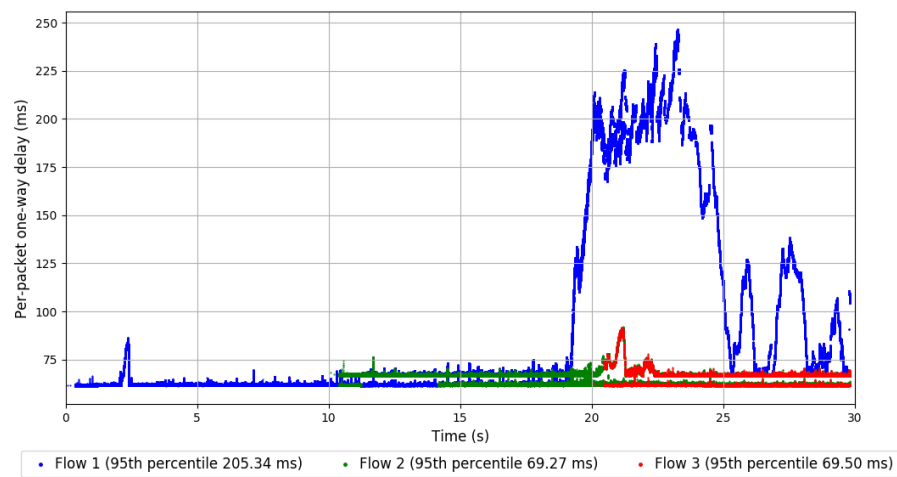
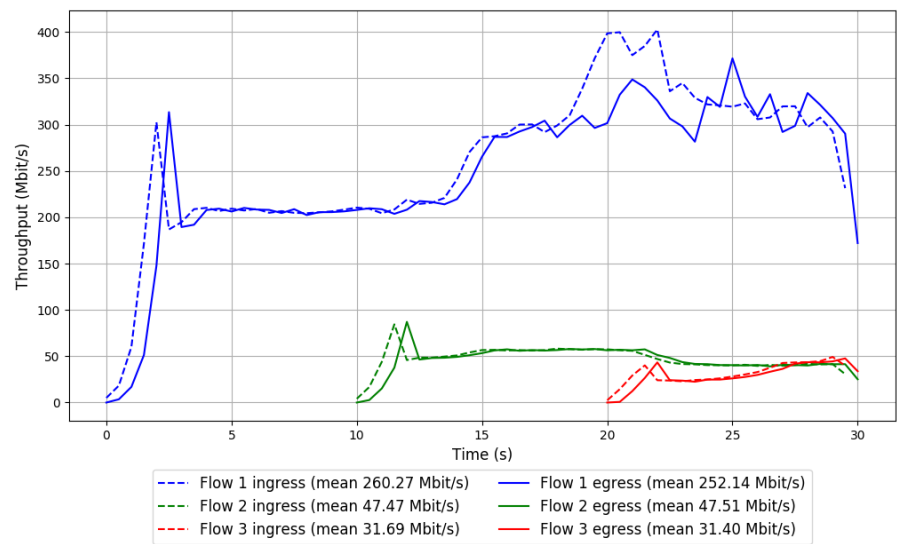
-- Flow 3:

Average throughput: 31.40 Mbit/s

95th percentile per-packet one-way delay: 69.502 ms

Loss rate: 2.20%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-05-23 12:02:04

End at: 2018-05-23 12:02:34

Local clock offset: -0.226 ms

Remote clock offset: 0.006 ms

Below is generated by plot.py at 2018-05-23 15:25:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.96 Mbit/s

95th percentile per-packet one-way delay: 67.553 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 50.50 Mbit/s

95th percentile per-packet one-way delay: 67.491 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 43.14 Mbit/s

95th percentile per-packet one-way delay: 67.557 ms

Loss rate: 0.81%

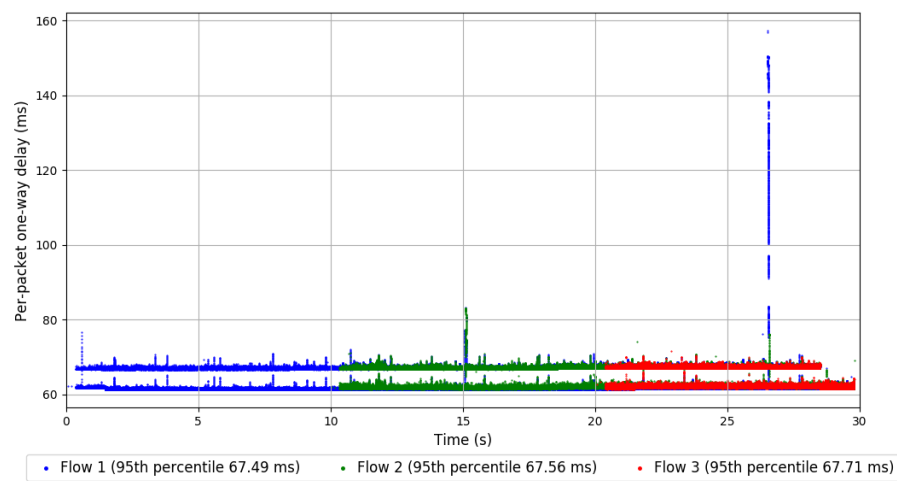
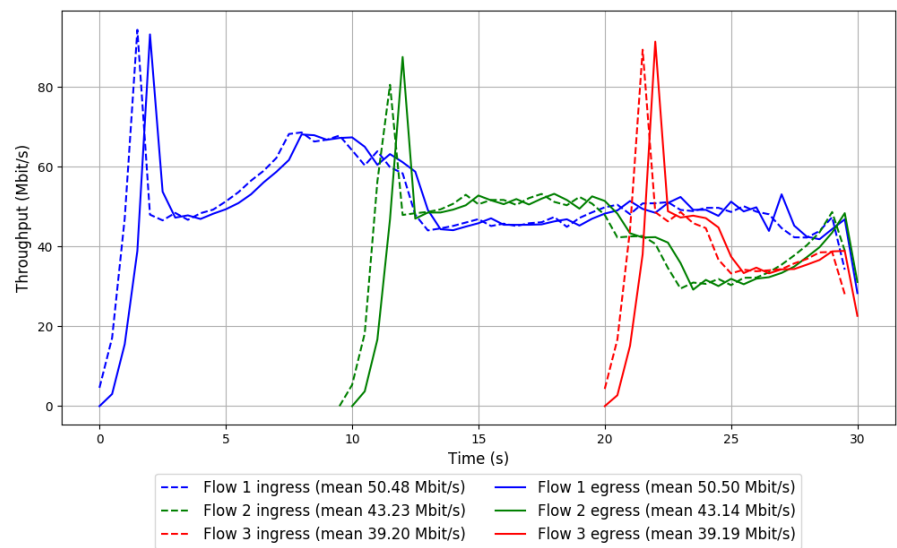
-- Flow 3:

Average throughput: 39.19 Mbit/s

95th percentile per-packet one-way delay: 67.710 ms

Loss rate: 1.29%

Run 5: Report of PCC-Expr — Data Link

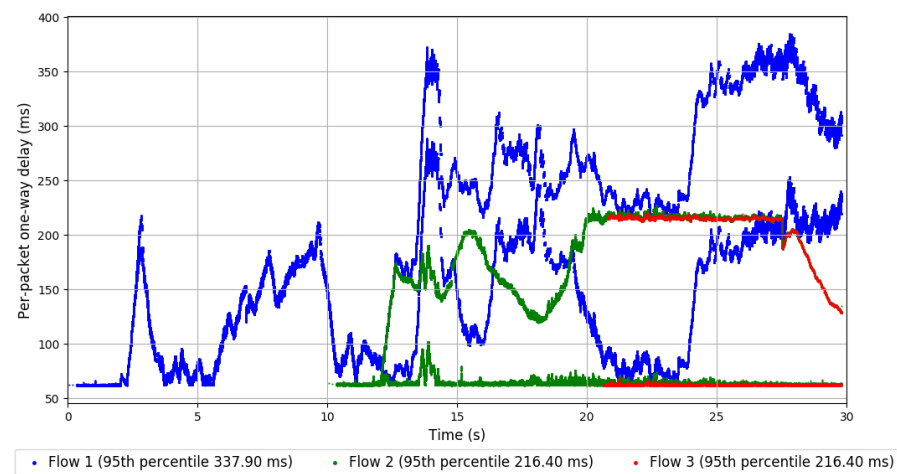
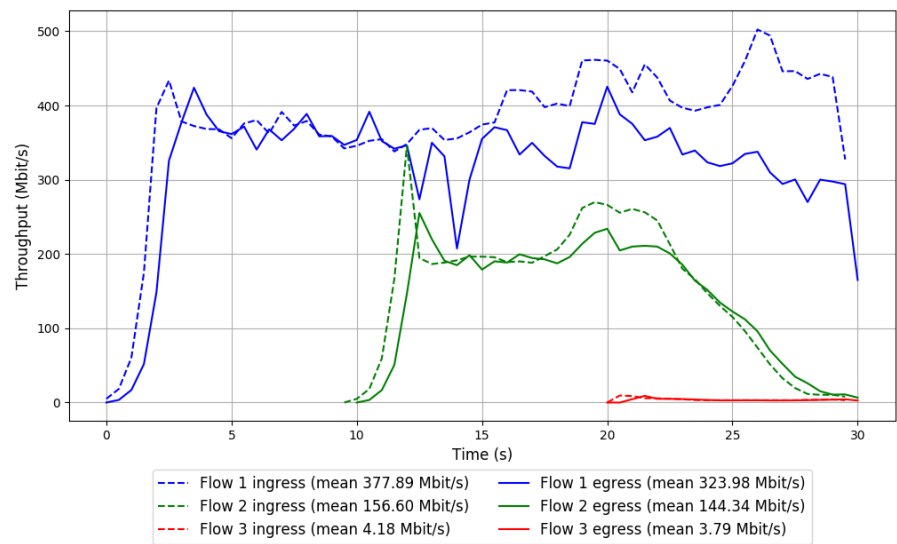


Run 6: Statistics of PCC-Expr

Start at: 2018-05-23 12:24:03
End at: 2018-05-23 12:24:33
Local clock offset: -0.081 ms
Remote clock offset: -0.146 ms

Below is generated by plot.py at 2018-05-23 15:38:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 420.96 Mbit/s
95th percentile per-packet one-way delay: 328.409 ms
Loss rate: 13.27%
-- Flow 1:
Average throughput: 323.98 Mbit/s
95th percentile per-packet one-way delay: 337.904 ms
Loss rate: 14.63%
-- Flow 2:
Average throughput: 144.34 Mbit/s
95th percentile per-packet one-way delay: 216.397 ms
Loss rate: 8.39%
-- Flow 3:
Average throughput: 3.79 Mbit/s
95th percentile per-packet one-way delay: 216.398 ms
Loss rate: 10.58%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-05-23 12:46:29

End at: 2018-05-23 12:46:59

Local clock offset: -0.005 ms

Remote clock offset: 0.012 ms

Below is generated by plot.py at 2018-05-23 15:38:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 311.62 Mbit/s

95th percentile per-packet one-way delay: 208.839 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 240.54 Mbit/s

95th percentile per-packet one-way delay: 213.127 ms

Loss rate: 1.76%

-- Flow 2:

Average throughput: 60.81 Mbit/s

95th percentile per-packet one-way delay: 67.655 ms

Loss rate: 0.58%

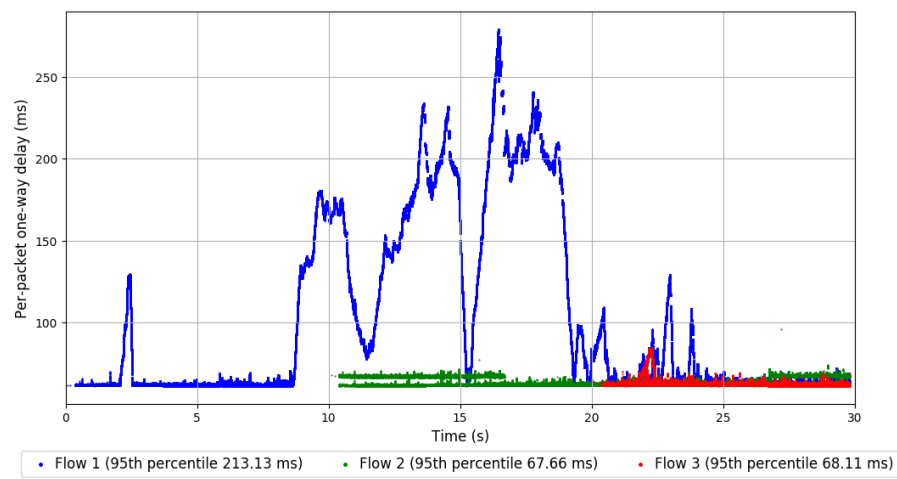
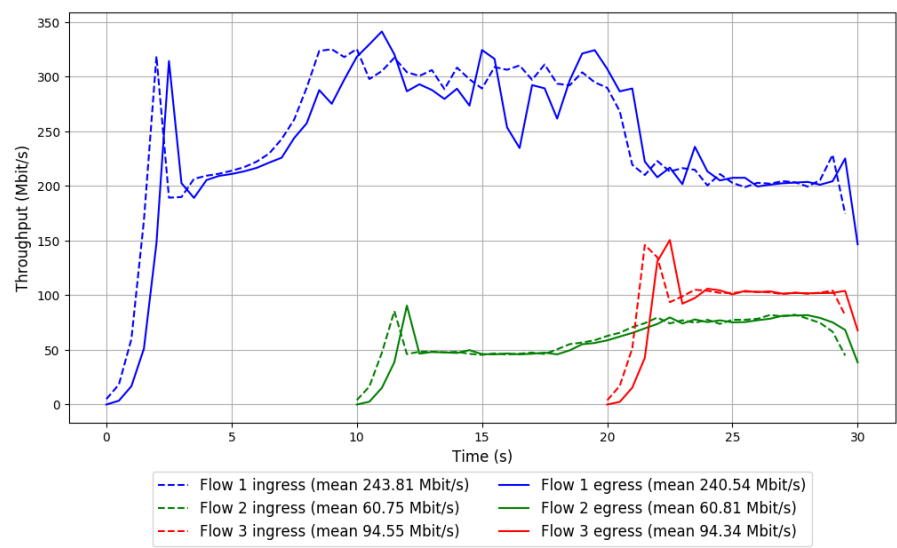
-- Flow 3:

Average throughput: 94.34 Mbit/s

95th percentile per-packet one-way delay: 68.115 ms

Loss rate: 1.45%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-05-23 13:08:59

End at: 2018-05-23 13:09:29

Local clock offset: -0.138 ms

Remote clock offset: 0.058 ms

Below is generated by plot.py at 2018-05-23 15:38:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 329.46 Mbit/s

95th percentile per-packet one-way delay: 150.523 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 168.46 Mbit/s

95th percentile per-packet one-way delay: 158.569 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 200.46 Mbit/s

95th percentile per-packet one-way delay: 148.353 ms

Loss rate: 1.09%

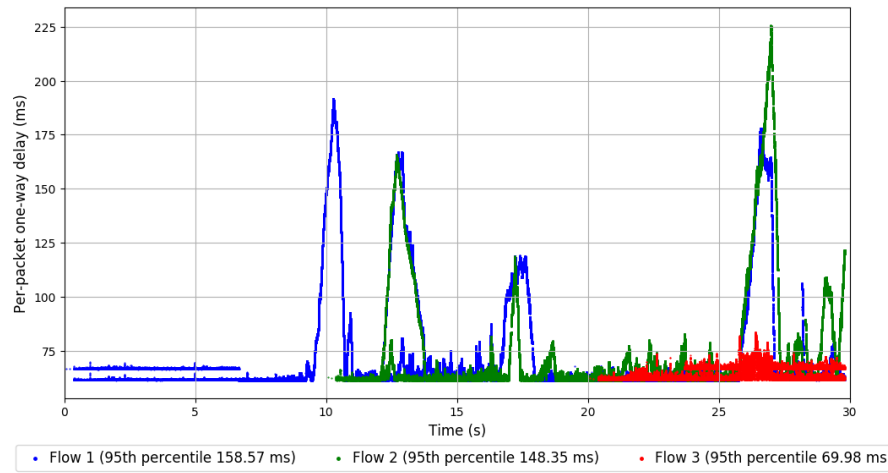
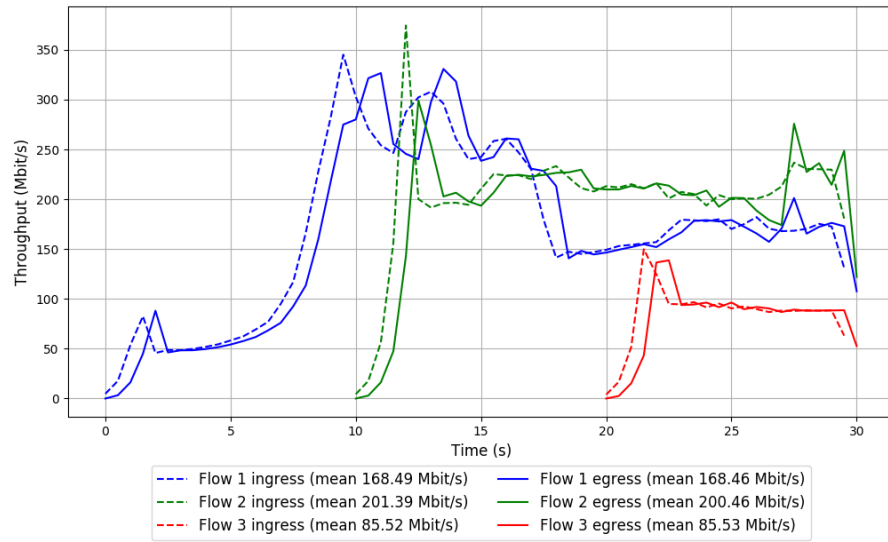
-- Flow 3:

Average throughput: 85.53 Mbit/s

95th percentile per-packet one-way delay: 69.980 ms

Loss rate: 1.26%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-05-23 13:31:09

End at: 2018-05-23 13:31:39

Local clock offset: 0.045 ms

Remote clock offset: 0.058 ms

Below is generated by plot.py at 2018-05-23 15:38:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 351.16 Mbit/s

95th percentile per-packet one-way delay: 200.849 ms

Loss rate: 2.25%

-- Flow 1:

Average throughput: 222.37 Mbit/s

95th percentile per-packet one-way delay: 200.836 ms

Loss rate: 1.63%

-- Flow 2:

Average throughput: 146.36 Mbit/s

95th percentile per-packet one-way delay: 200.629 ms

Loss rate: 2.60%

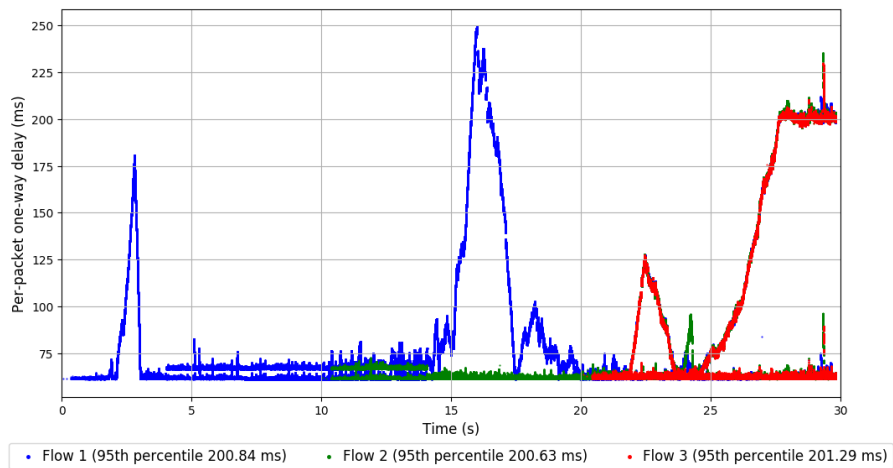
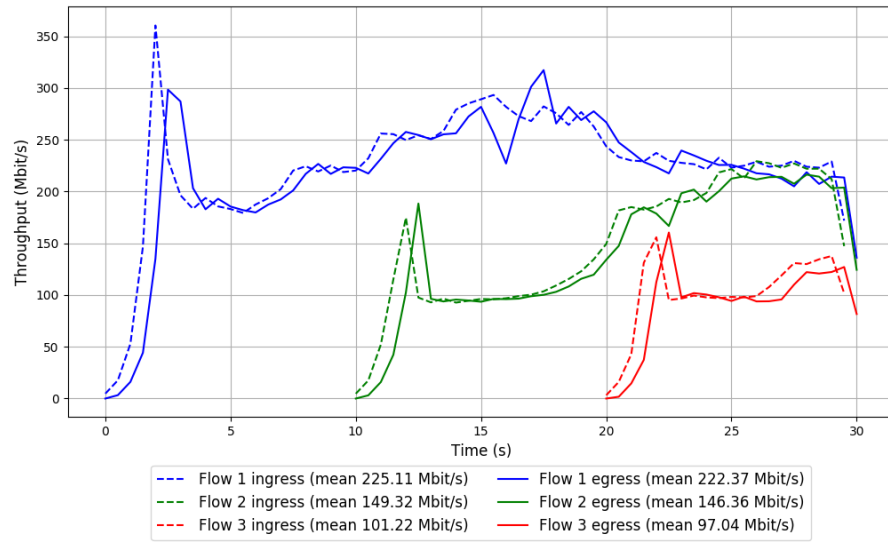
-- Flow 3:

Average throughput: 97.04 Mbit/s

95th percentile per-packet one-way delay: 201.292 ms

Loss rate: 5.36%

Run 9: Report of PCC-Expr — Data Link

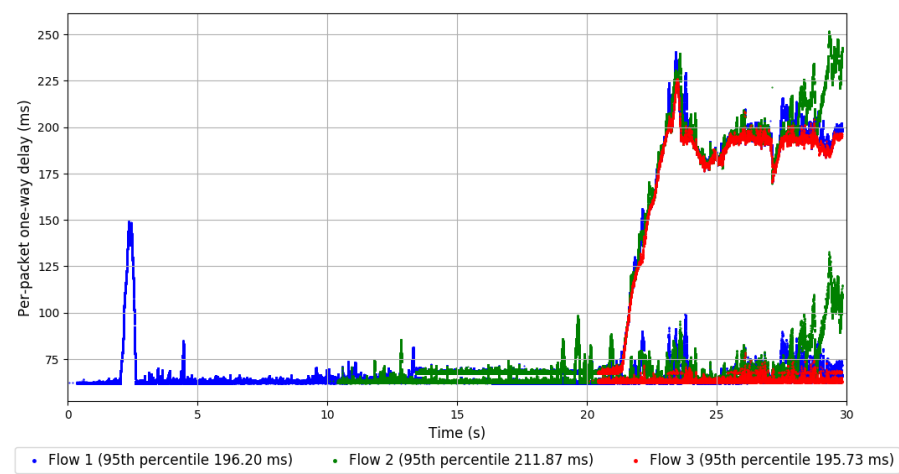
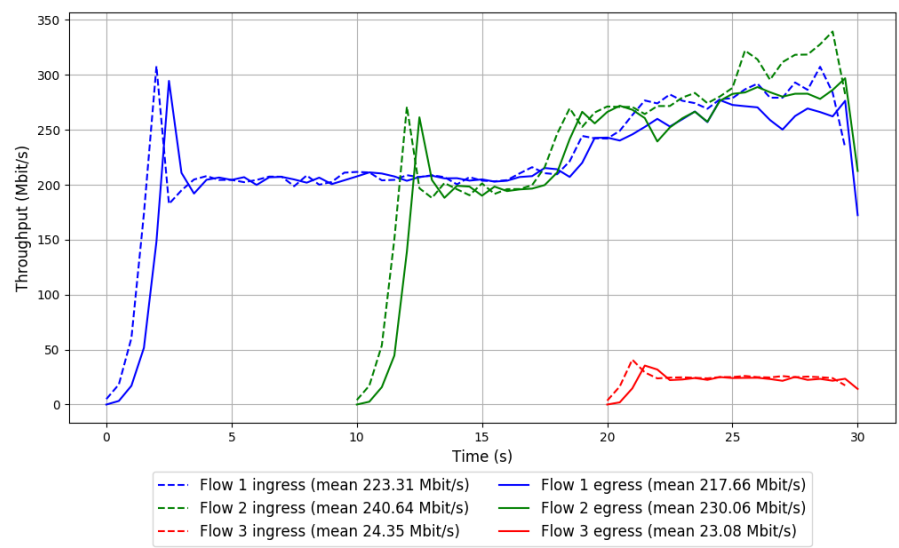


Run 10: Statistics of PCC-Expr

Start at: 2018-05-23 13:53:39
End at: 2018-05-23 13:54:09
Local clock offset: 0.276 ms
Remote clock offset: -0.268 ms

Below is generated by plot.py at 2018-05-23 15:39:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 377.77 Mbit/s
95th percentile per-packet one-way delay: 199.829 ms
Loss rate: 3.85%
-- Flow 1:
Average throughput: 217.66 Mbit/s
95th percentile per-packet one-way delay: 196.202 ms
Loss rate: 2.94%
-- Flow 2:
Average throughput: 230.06 Mbit/s
95th percentile per-packet one-way delay: 211.866 ms
Loss rate: 5.00%
-- Flow 3:
Average throughput: 23.08 Mbit/s
95th percentile per-packet one-way delay: 195.729 ms
Loss rate: 6.44%

Run 10: Report of PCC-Expr — Data Link

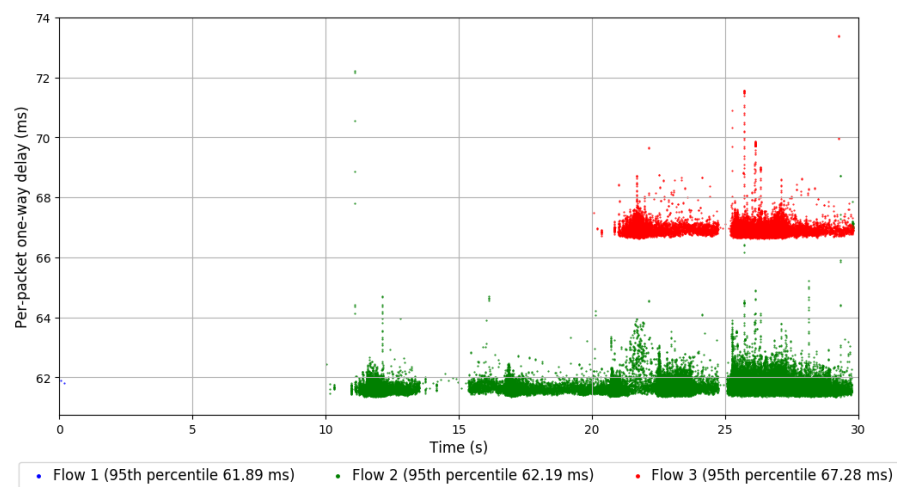
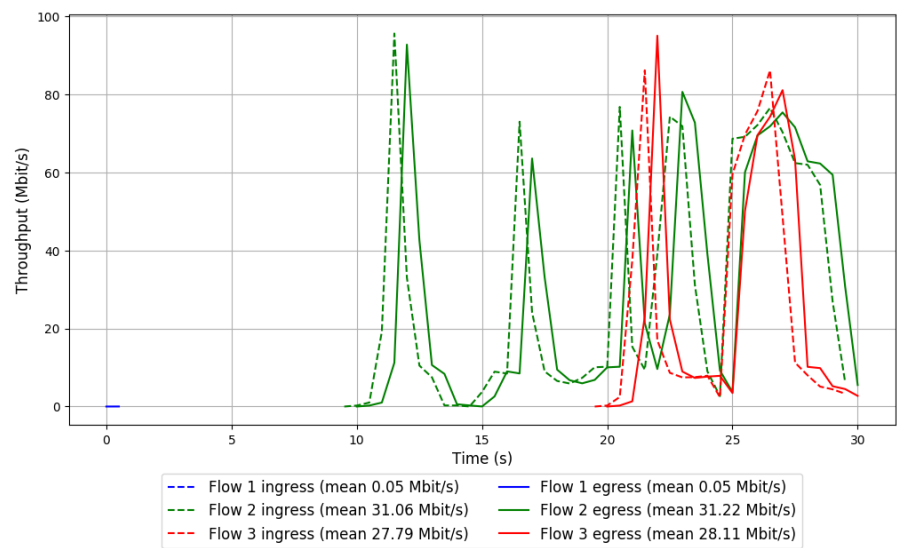


Run 1: Statistics of QUIC Cubic

Start at: 2018-05-23 10:16:26
End at: 2018-05-23 10:16:56
Local clock offset: -0.203 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-05-23 15:39:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 29.96 Mbit/s
95th percentile per-packet one-way delay: 67.075 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 61.891 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 31.22 Mbit/s
95th percentile per-packet one-way delay: 62.191 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 28.11 Mbit/s
95th percentile per-packet one-way delay: 67.281 ms
Loss rate: 0.21%

Run 1: Report of QUIC Cubic — Data Link

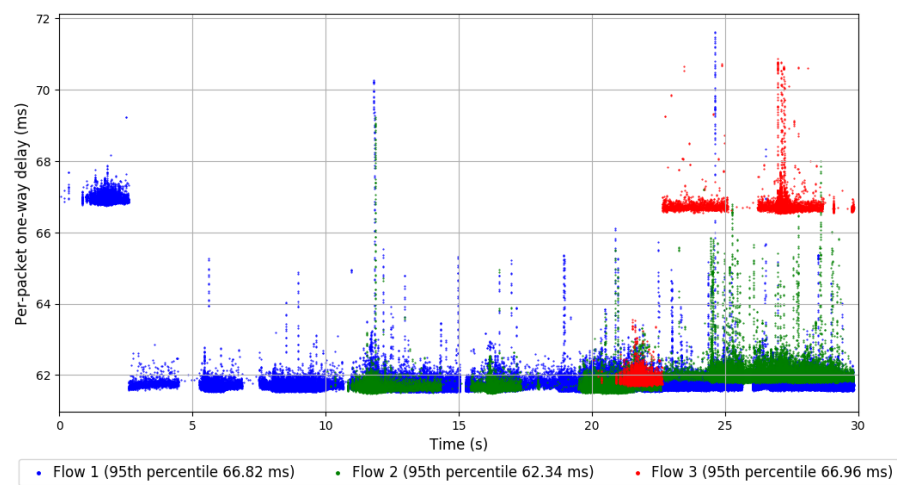
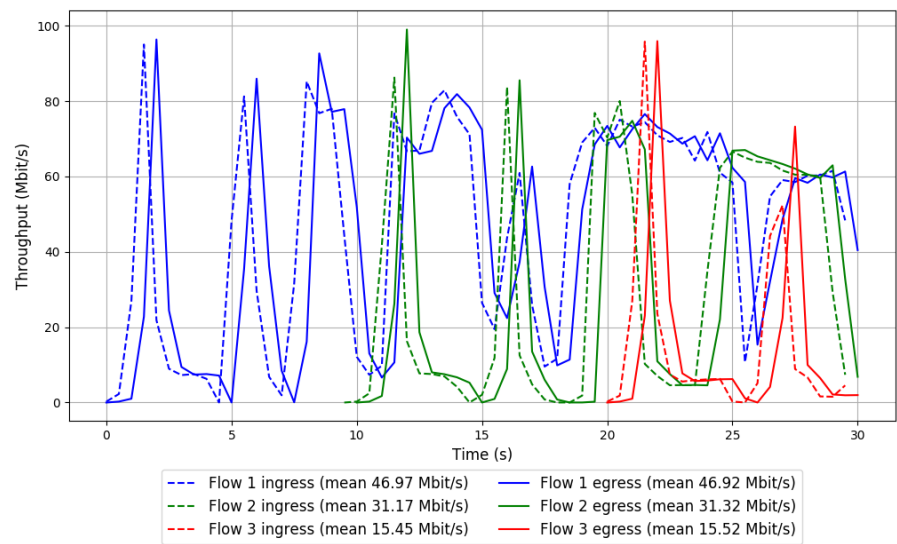


Run 2: Statistics of QUIC Cubic

Start at: 2018-05-23 10:38:43
End at: 2018-05-23 10:39:13
Local clock offset: -0.176 ms
Remote clock offset: -0.046 ms

Below is generated by plot.py at 2018-05-23 15:39:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.80 Mbit/s
95th percentile per-packet one-way delay: 66.721 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 46.92 Mbit/s
95th percentile per-packet one-way delay: 66.822 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 31.32 Mbit/s
95th percentile per-packet one-way delay: 62.342 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 15.52 Mbit/s
95th percentile per-packet one-way delay: 66.960 ms
Loss rate: 0.85%

Run 2: Report of QUIC Cubic — Data Link

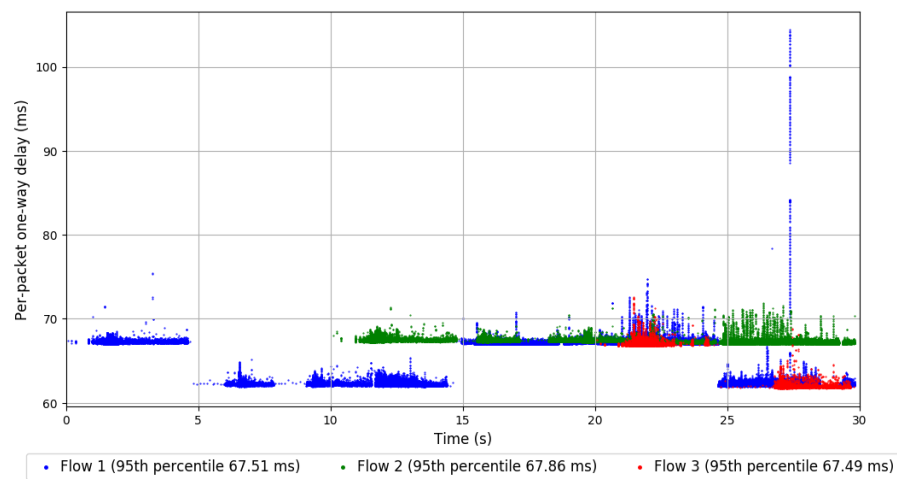
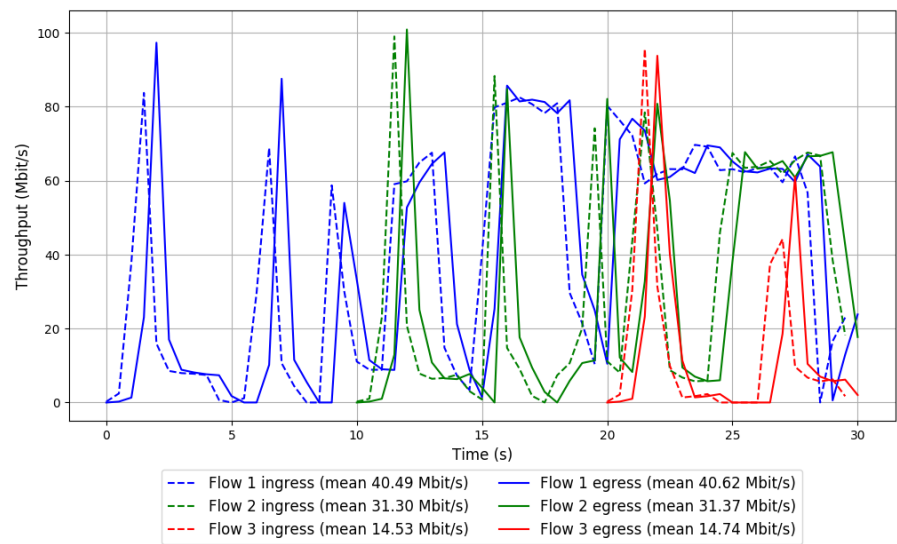


Run 3: Statistics of QUIC Cubic

Start at: 2018-05-23 11:00:51
End at: 2018-05-23 11:01:21
Local clock offset: -0.017 ms
Remote clock offset: -0.261 ms

Below is generated by plot.py at 2018-05-23 15:39:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.23 Mbit/s
95th percentile per-packet one-way delay: 67.653 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 40.62 Mbit/s
95th percentile per-packet one-way delay: 67.511 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 31.37 Mbit/s
95th percentile per-packet one-way delay: 67.859 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 14.74 Mbit/s
95th percentile per-packet one-way delay: 67.491 ms
Loss rate: 0.15%

Run 3: Report of QUIC Cubic — Data Link

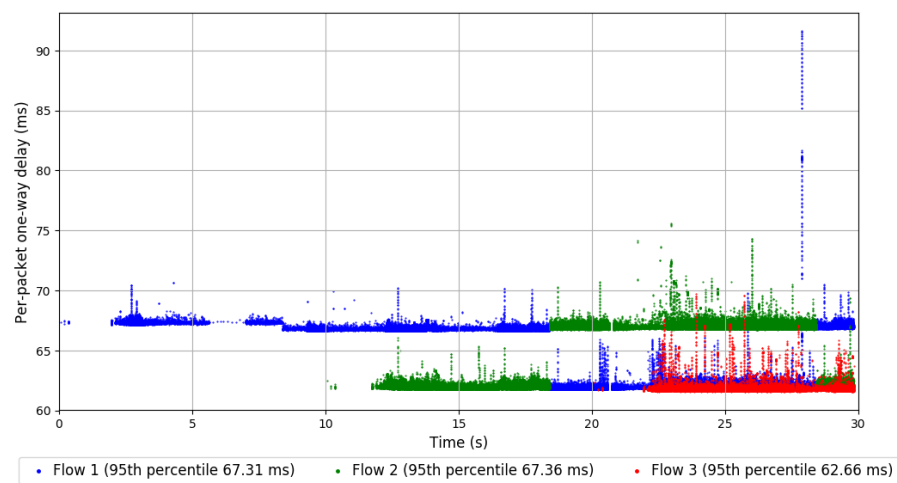
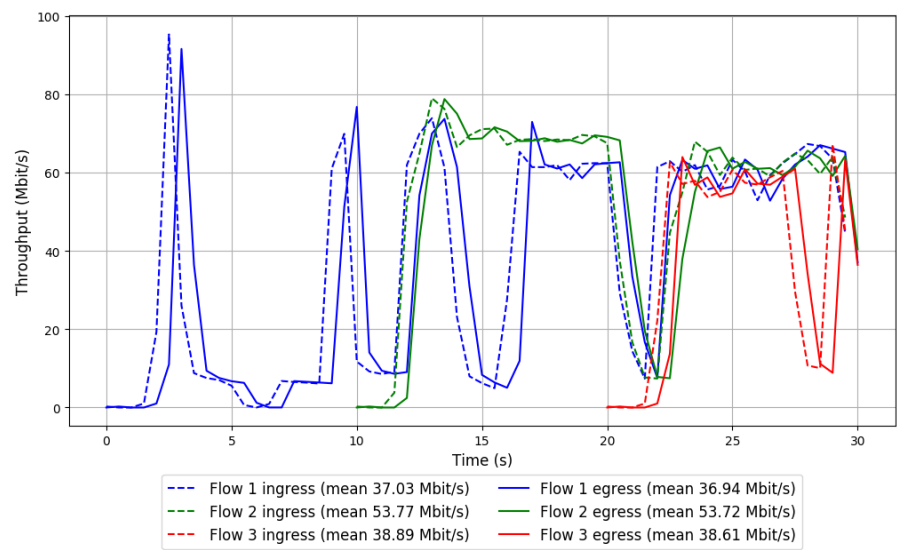


Run 4: Statistics of QUIC Cubic

Start at: 2018-05-23 11:23:27
End at: 2018-05-23 11:23:57
Local clock offset: -0.112 ms
Remote clock offset: -0.203 ms

Below is generated by plot.py at 2018-05-23 15:39:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.22 Mbit/s
95th percentile per-packet one-way delay: 67.302 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 36.94 Mbit/s
95th percentile per-packet one-way delay: 67.312 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 53.72 Mbit/s
95th percentile per-packet one-way delay: 67.356 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 38.61 Mbit/s
95th percentile per-packet one-way delay: 62.662 ms
Loss rate: 1.98%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-05-23 11:45:52

End at: 2018-05-23 11:46:22

Local clock offset: -0.187 ms

Remote clock offset: 0.15 ms

Below is generated by plot.py at 2018-05-23 15:39:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 35.50 Mbit/s

95th percentile per-packet one-way delay: 67.017 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 61.652 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.88 Mbit/s

95th percentile per-packet one-way delay: 67.057 ms

Loss rate: 1.12%

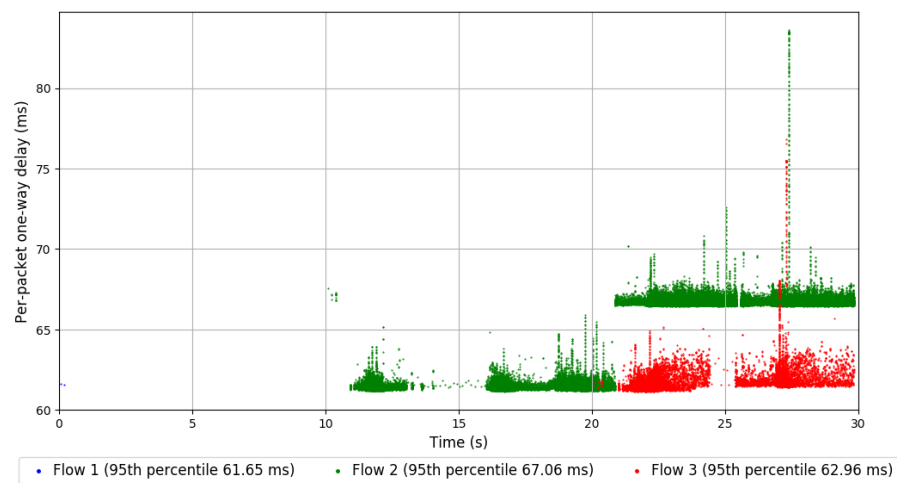
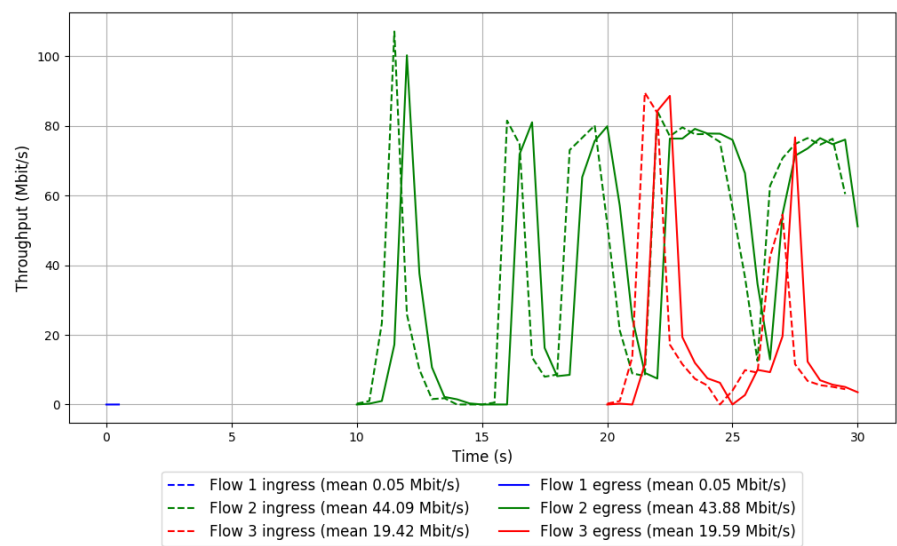
-- Flow 3:

Average throughput: 19.59 Mbit/s

95th percentile per-packet one-way delay: 62.957 ms

Loss rate: 0.41%

Run 5: Report of QUIC Cubic — Data Link

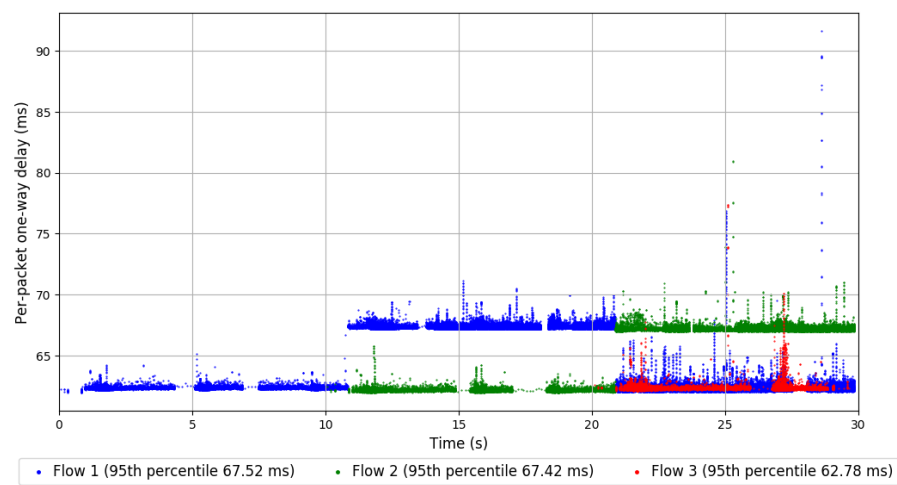
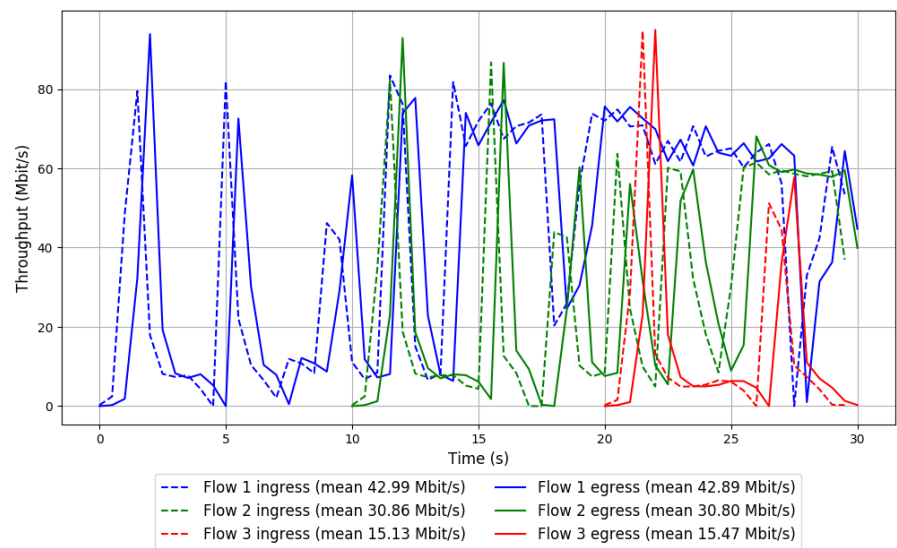


Run 6: Statistics of QUIC Cubic

Start at: 2018-05-23 12:07:55
End at: 2018-05-23 12:08:25
Local clock offset: -0.125 ms
Remote clock offset: -0.443 ms

Below is generated by plot.py at 2018-05-23 15:39:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.29 Mbit/s
95th percentile per-packet one-way delay: 67.490 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 42.89 Mbit/s
95th percentile per-packet one-way delay: 67.524 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 30.80 Mbit/s
95th percentile per-packet one-way delay: 67.421 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 15.47 Mbit/s
95th percentile per-packet one-way delay: 62.781 ms
Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-05-23 12:30:22

End at: 2018-05-23 12:30:52

Local clock offset: -0.159 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-05-23 15:39:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.41 Mbit/s

95th percentile per-packet one-way delay: 66.920 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 39.67 Mbit/s

95th percentile per-packet one-way delay: 66.889 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 22.91 Mbit/s

95th percentile per-packet one-way delay: 67.221 ms

Loss rate: 1.59%

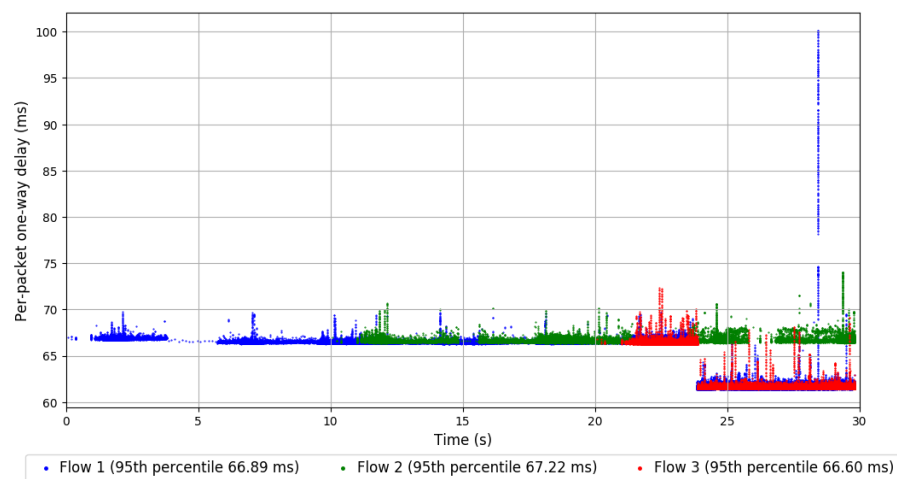
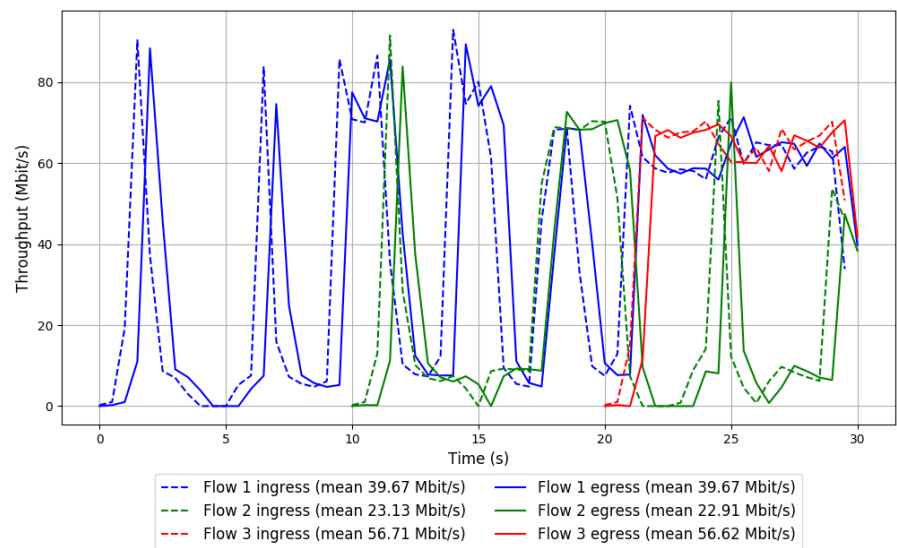
-- Flow 3:

Average throughput: 56.62 Mbit/s

95th percentile per-packet one-way delay: 66.596 ms

Loss rate: 1.45%

Run 7: Report of QUIC Cubic — Data Link

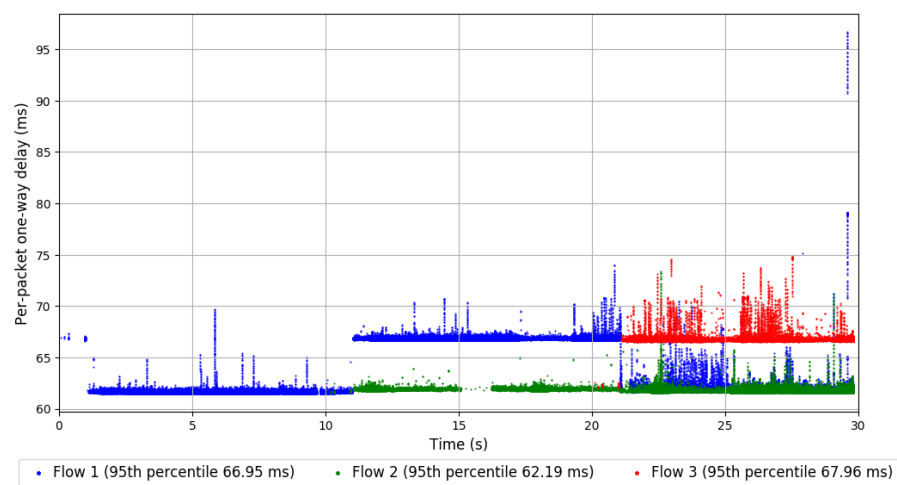
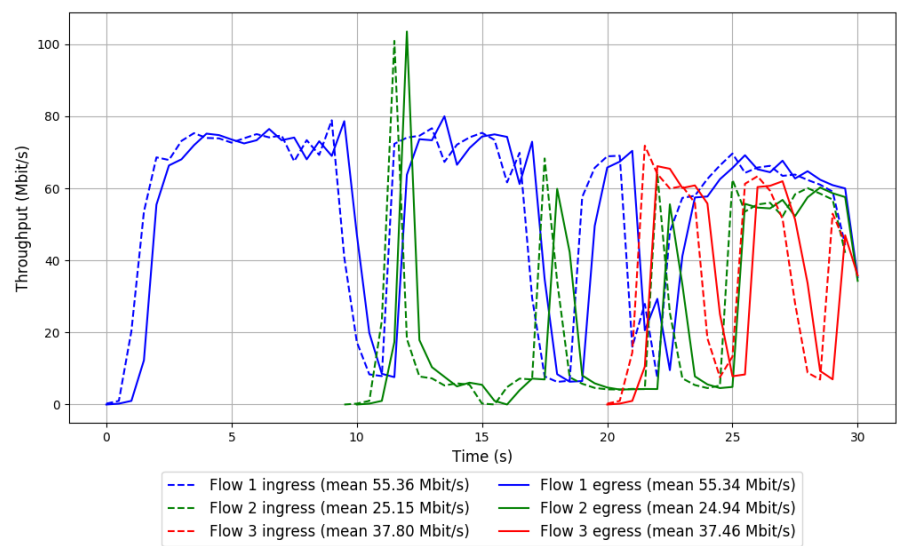


Run 8: Statistics of QUIC Cubic

Start at: 2018-05-23 12:52:45
End at: 2018-05-23 12:53:15
Local clock offset: 0.035 ms
Remote clock offset: -0.082 ms

Below is generated by plot.py at 2018-05-23 15:39:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.14 Mbit/s
95th percentile per-packet one-way delay: 66.957 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 55.34 Mbit/s
95th percentile per-packet one-way delay: 66.949 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 24.94 Mbit/s
95th percentile per-packet one-way delay: 62.190 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 37.46 Mbit/s
95th percentile per-packet one-way delay: 67.961 ms
Loss rate: 2.15%

Run 8: Report of QUIC Cubic — Data Link

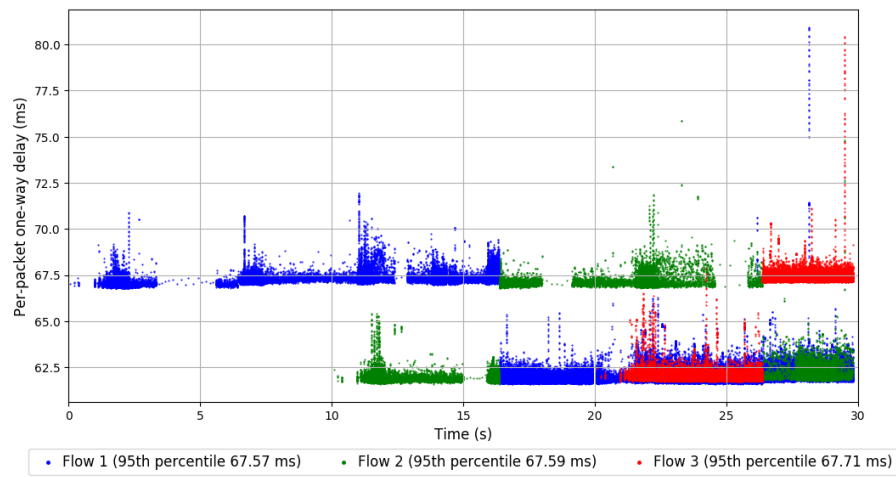
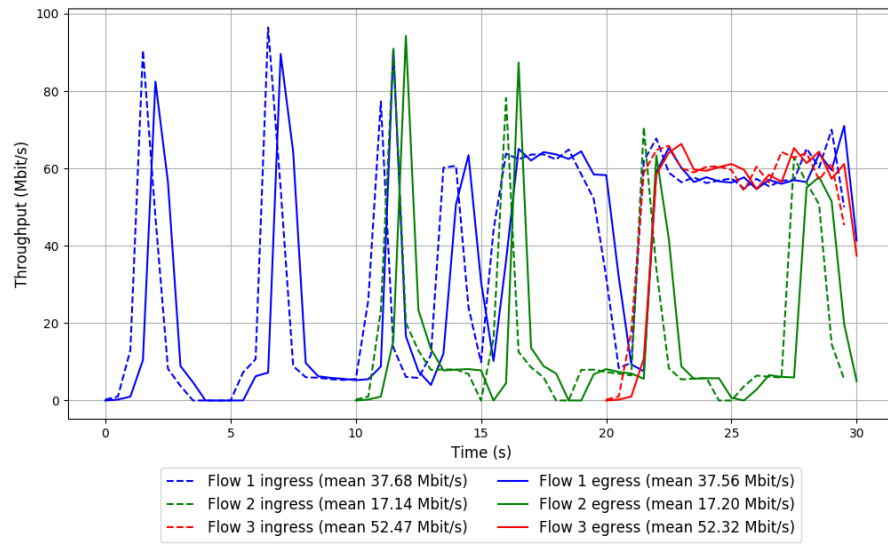


Run 9: Statistics of QUIC Cubic

Start at: 2018-05-23 13:15:19
End at: 2018-05-23 13:15:49
Local clock offset: -0.067 ms
Remote clock offset: -0.225 ms

Below is generated by plot.py at 2018-05-23 15:39:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.06 Mbit/s
95th percentile per-packet one-way delay: 67.634 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 37.56 Mbit/s
95th percentile per-packet one-way delay: 67.573 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 17.20 Mbit/s
95th percentile per-packet one-way delay: 67.591 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 52.32 Mbit/s
95th percentile per-packet one-way delay: 67.713 ms
Loss rate: 1.56%

Run 9: Report of QUIC Cubic — Data Link

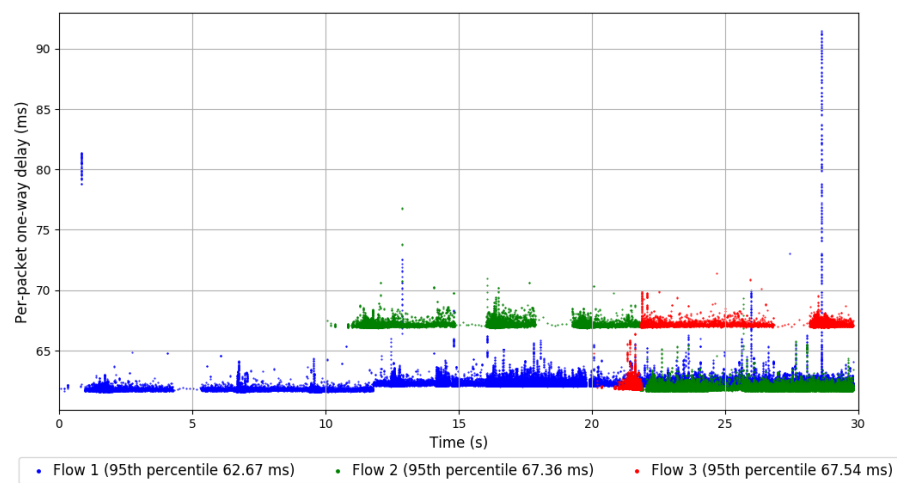
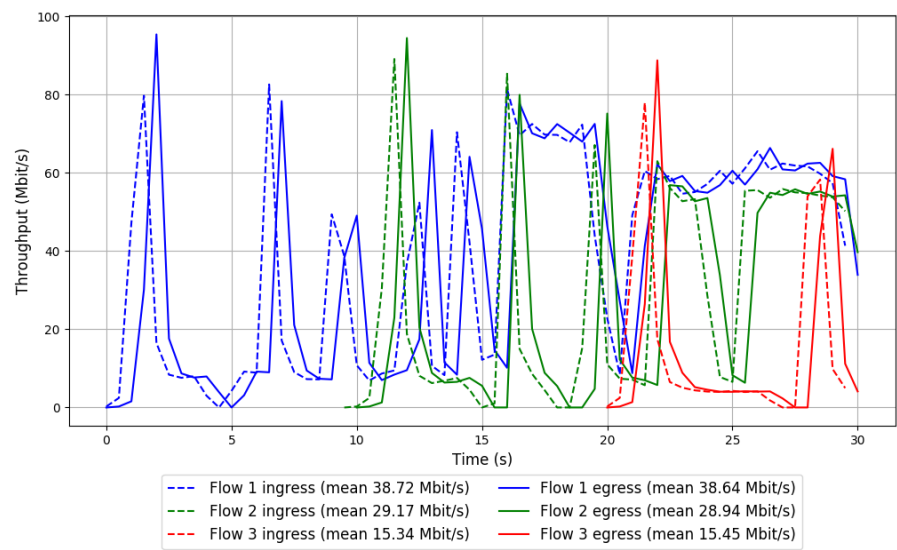


Run 10: Statistics of QUIC Cubic

Start at: 2018-05-23 13:37:24
End at: 2018-05-23 13:37:54
Local clock offset: 0.172 ms
Remote clock offset: -0.257 ms

Below is generated by plot.py at 2018-05-23 15:39:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.89 Mbit/s
95th percentile per-packet one-way delay: 67.207 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 38.64 Mbit/s
95th percentile per-packet one-way delay: 62.673 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 28.94 Mbit/s
95th percentile per-packet one-way delay: 67.356 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 15.45 Mbit/s
95th percentile per-packet one-way delay: 67.543 ms
Loss rate: 0.60%

Run 10: Report of QUIC Cubic — Data Link

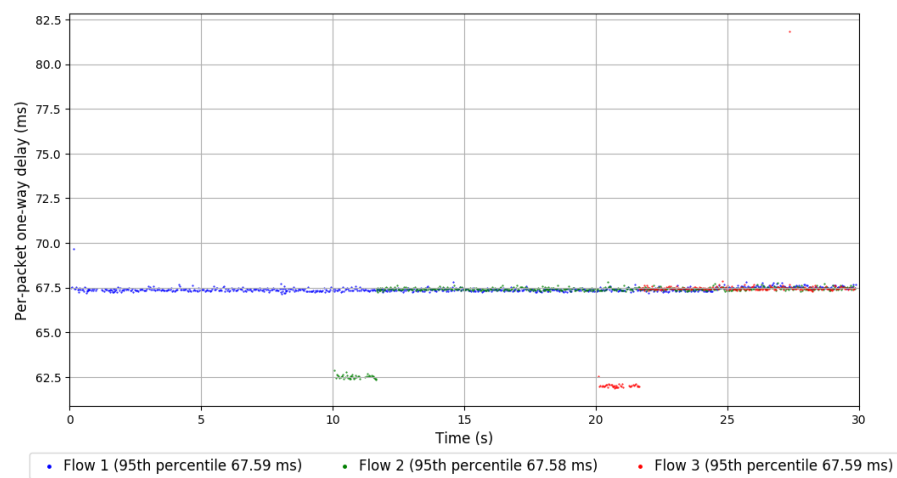
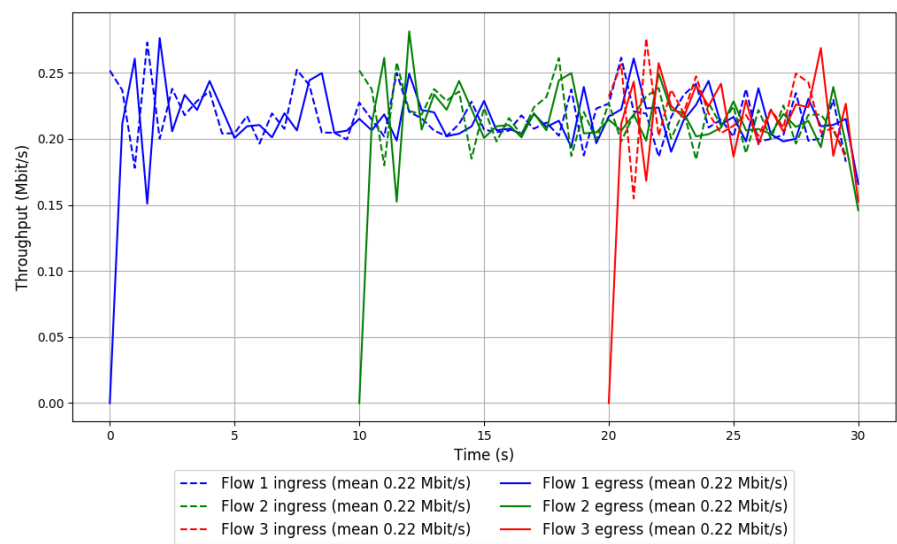


```
Run 1: Statistics of SReAM

Start at: 2018-05-23 10:23:01
End at: 2018-05-23 10:23:31
Local clock offset: -0.235 ms
Remote clock offset: -0.385 ms

# Below is generated by plot.py at 2018-05-23 15:39:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 67.590 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 67.591 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 67.580 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 67.595 ms
Loss rate: 1.11%
```

Run 1: Report of SReAM — Data Link

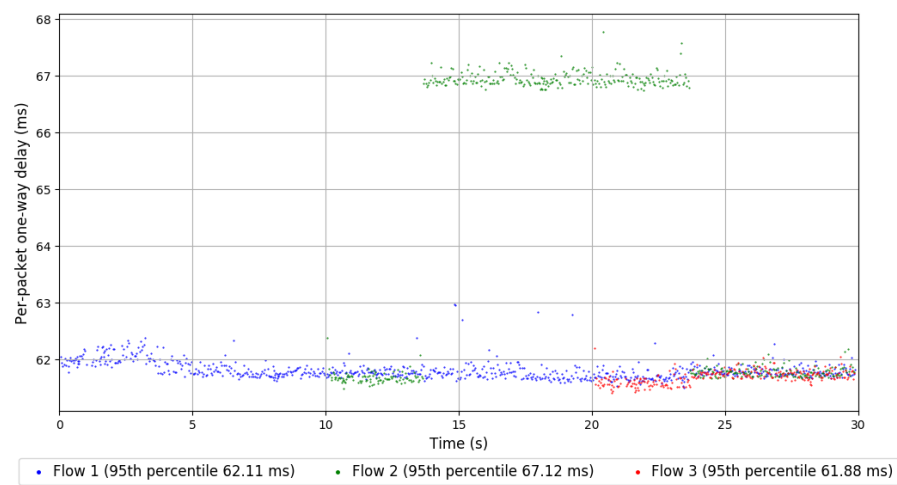
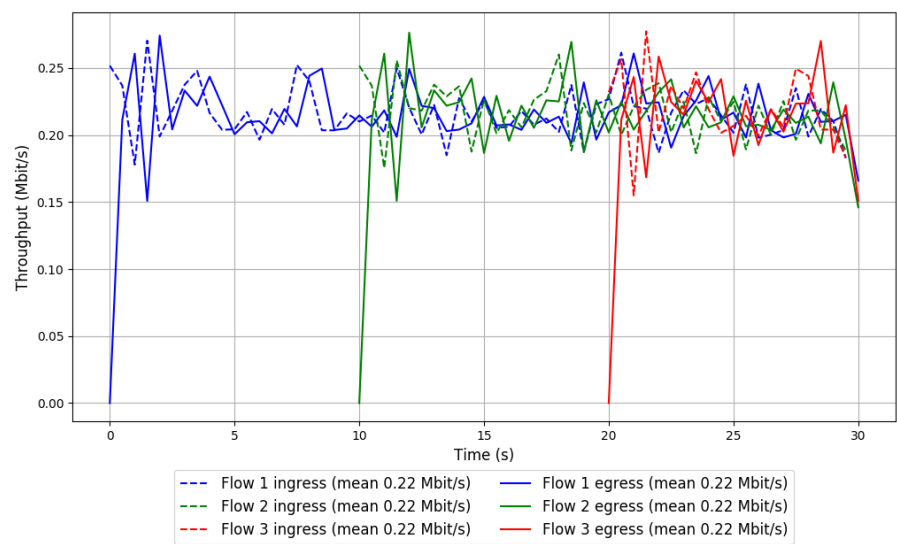


```
Run 2: Statistics of SReAM

Start at: 2018-05-23 10:45:22
End at: 2018-05-23 10:45:52
Local clock offset: 0.085 ms
Remote clock offset: 0.256 ms

# Below is generated by plot.py at 2018-05-23 15:39:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 66.979 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.107 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 67.117 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.878 ms
Loss rate: 1.10%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-05-23 11:07:28

End at: 2018-05-23 11:07:58

Local clock offset: -0.057 ms

Remote clock offset: 0.103 ms

Below is generated by plot.py at 2018-05-23 15:39:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 67.165 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 67.113 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 67.223 ms

Loss rate: 0.81%

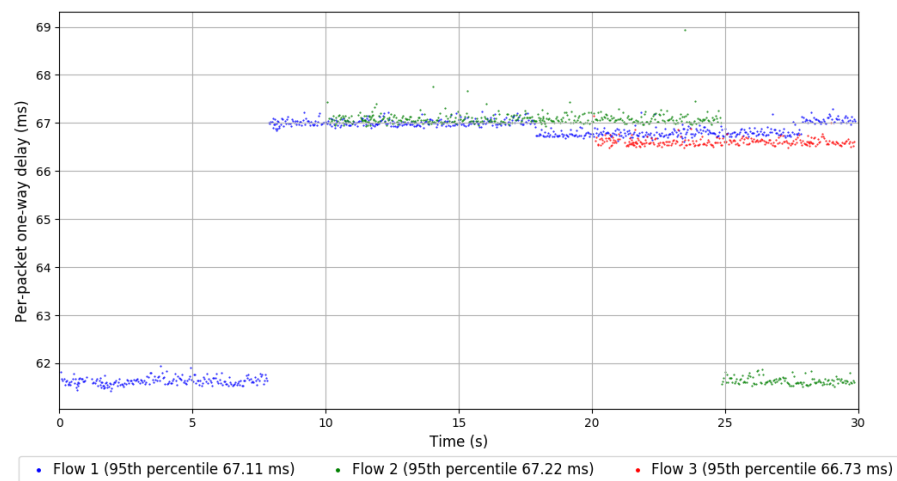
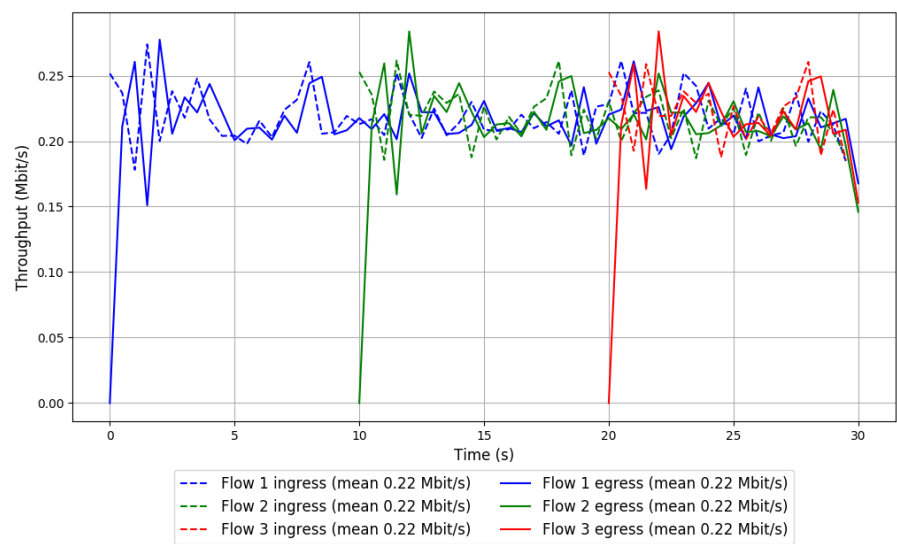
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 66.732 ms

Loss rate: 1.46%

Run 3: Report of SReAM — Data Link

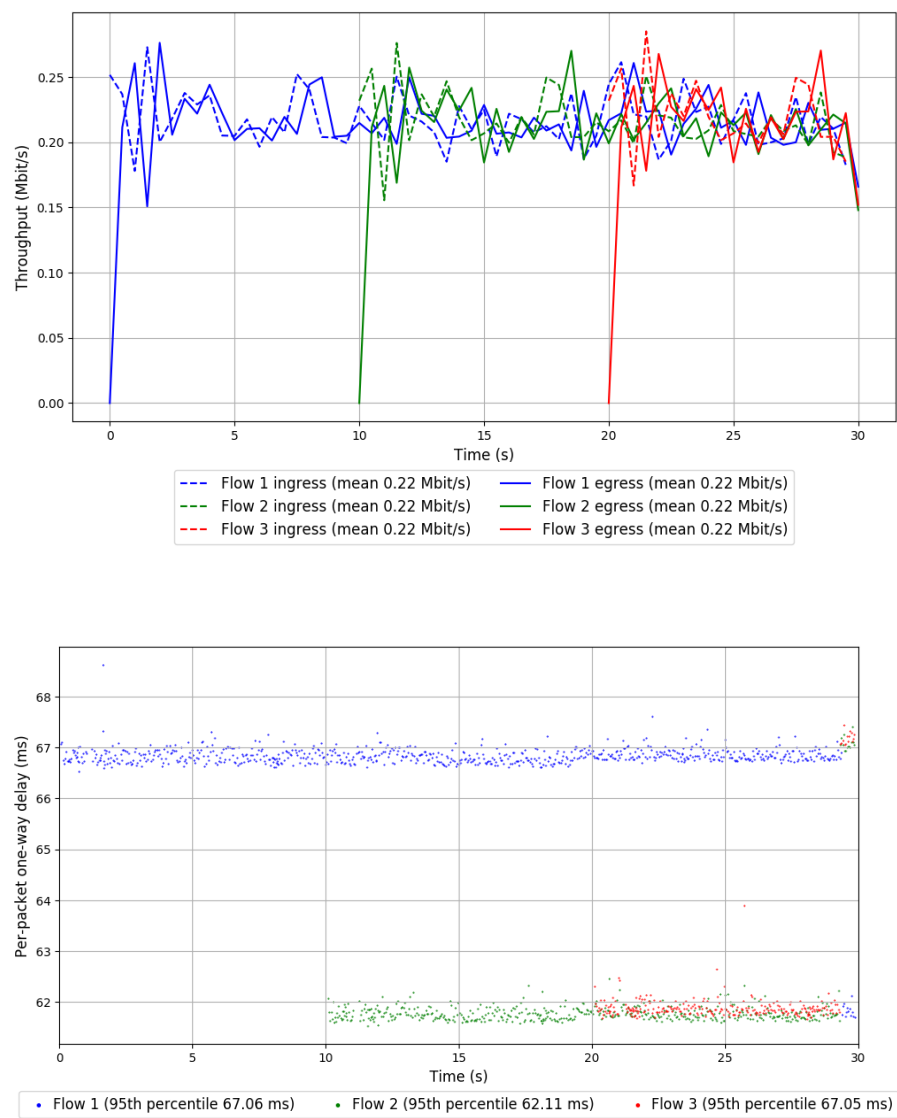


Run 4: Statistics of SReAM

Start at: 2018-05-23 11:30:06
End at: 2018-05-23 11:30:36
Local clock offset: -0.138 ms
Remote clock offset: 0.045 ms

```
# Below is generated by plot.py at 2018-05-23 15:39:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 67.021 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 67.055 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.111 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 67.050 ms
Loss rate: 1.11%
```

Run 4: Report of SReAM — Data Link

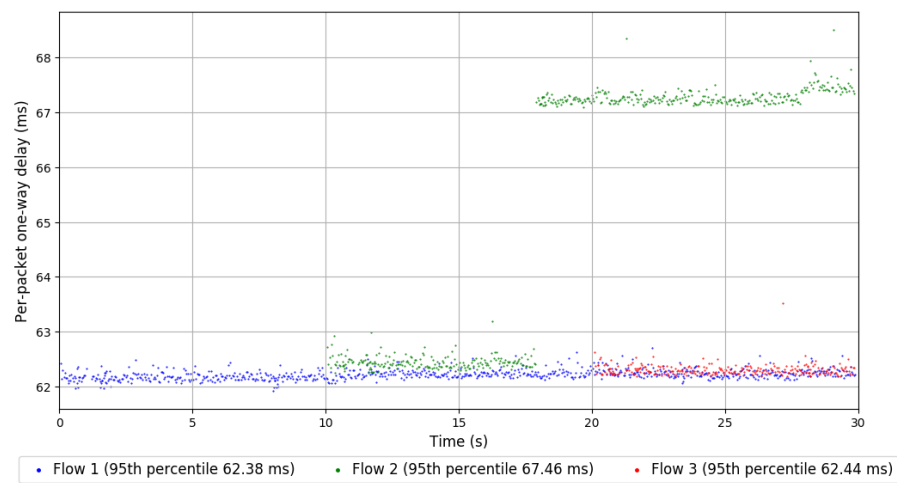
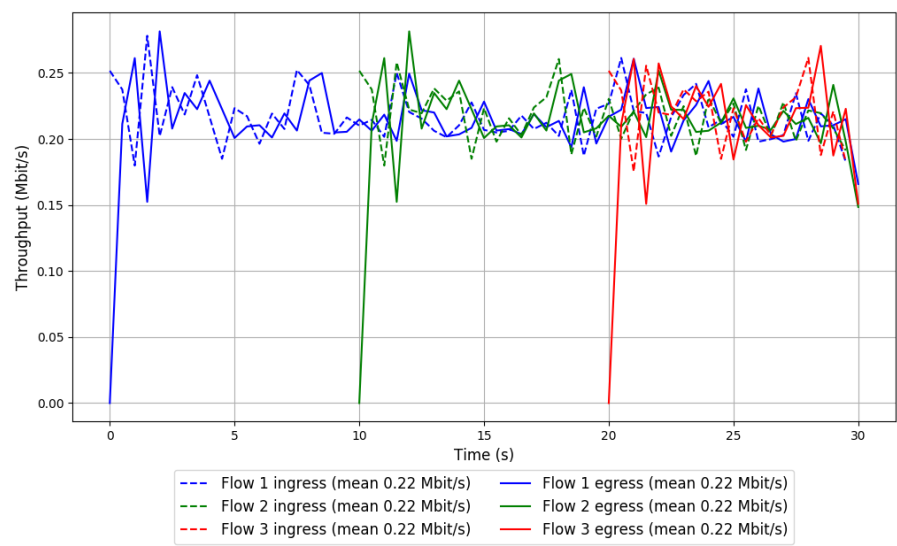


Run 5: Statistics of SReAM

Start at: 2018-05-23 11:52:25
End at: 2018-05-23 11:52:55
Local clock offset: -0.182 ms
Remote clock offset: -0.325 ms

Below is generated by plot.py at 2018-05-23 15:39:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 67.341 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.383 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 67.456 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.436 ms
Loss rate: 1.45%

Run 5: Report of SCReAM — Data Link

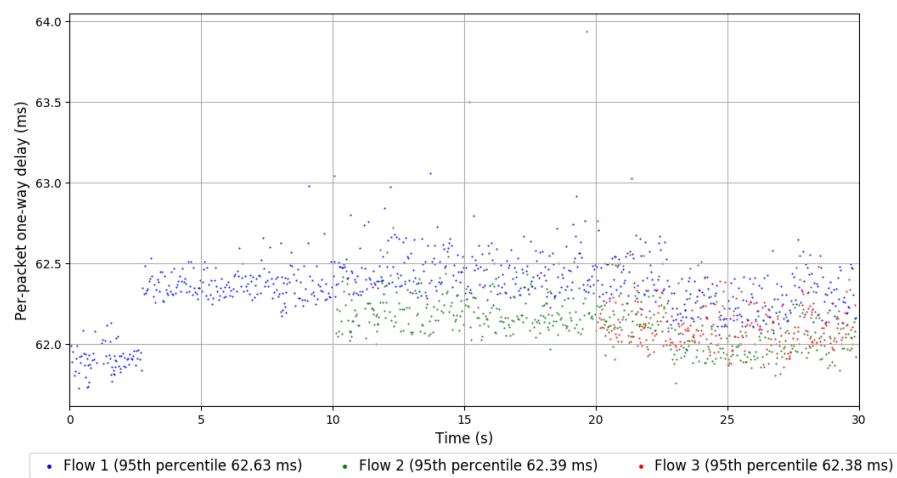
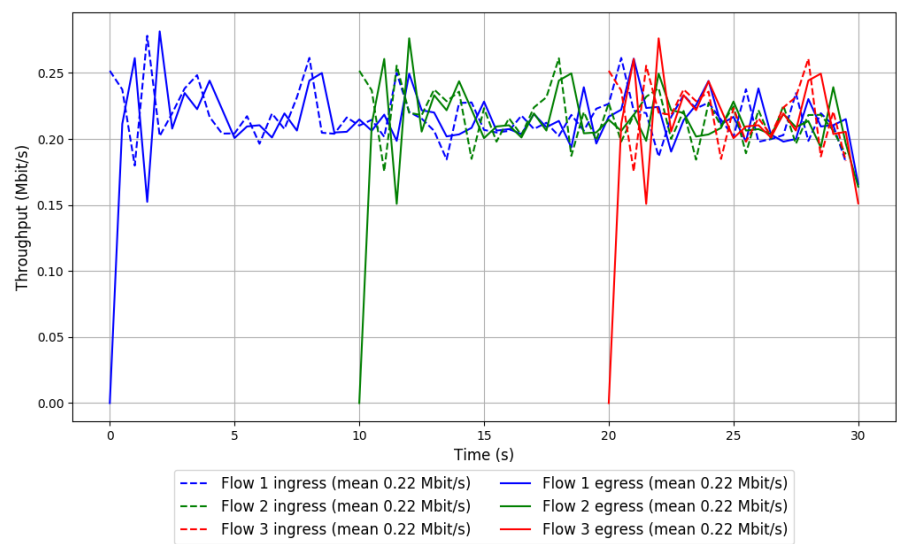


Run 6: Statistics of SReAM

Start at: 2018-05-23 12:14:33
End at: 2018-05-23 12:15:03
Local clock offset: -0.296 ms
Remote clock offset: -0.215 ms

Below is generated by plot.py at 2018-05-23 15:39:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 62.560 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.628 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.389 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.376 ms
Loss rate: 1.46%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2018-05-23 12:36:58

End at: 2018-05-23 12:37:28

Local clock offset: 0.042 ms

Remote clock offset: 0.002 ms

Below is generated by plot.py at 2018-05-23 15:39:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 67.115 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 67.106 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 67.116 ms

Loss rate: 0.61%

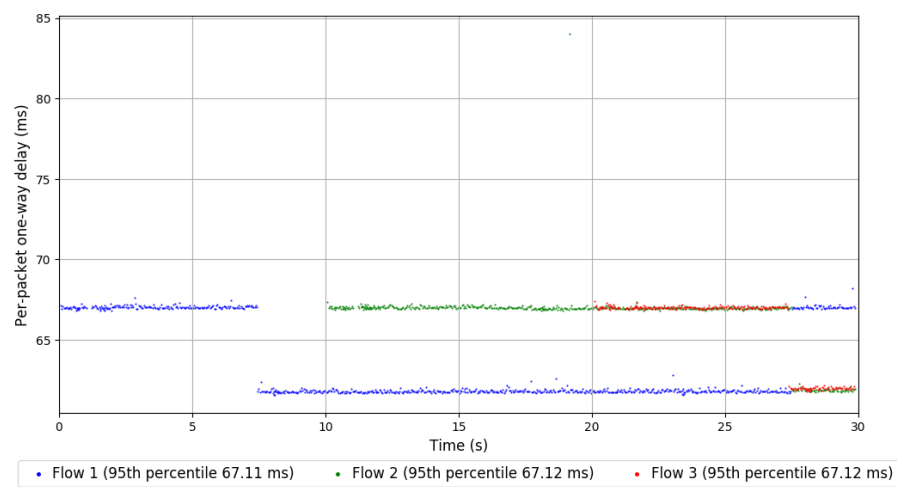
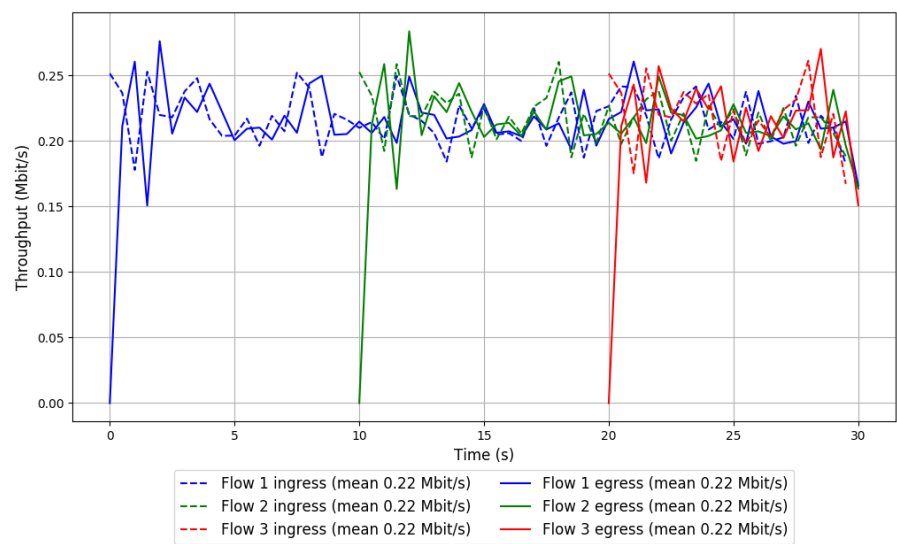
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 67.120 ms

Loss rate: 1.10%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-05-23 12:59:24

End at: 2018-05-23 12:59:54

Local clock offset: -0.052 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2018-05-23 15:39:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 66.976 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 62.202 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 62.286 ms

Loss rate: 0.42%

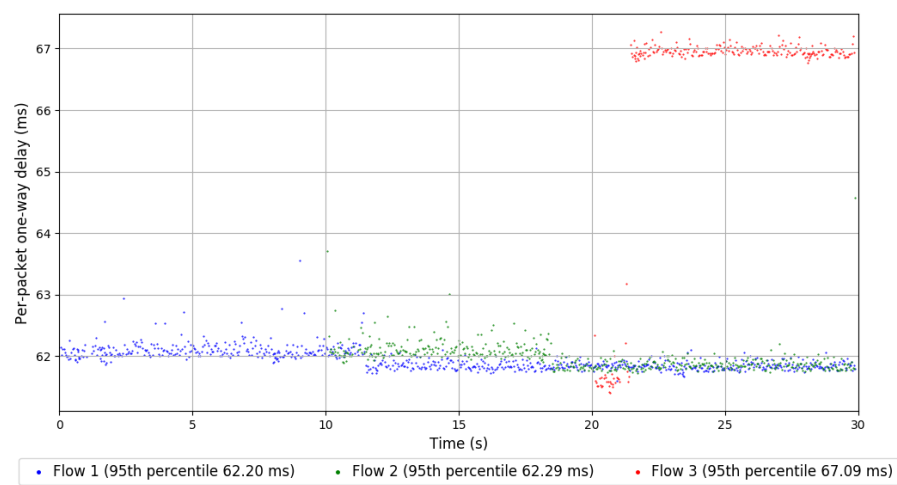
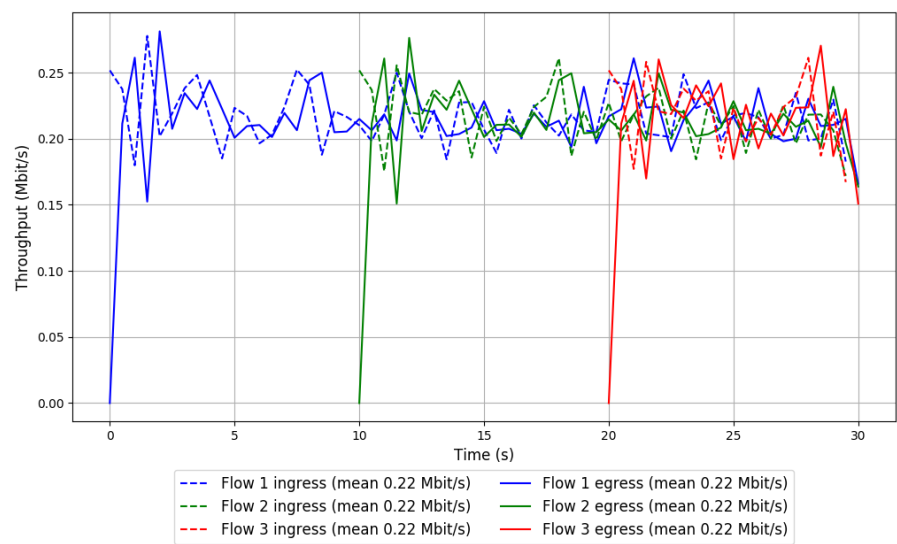
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 67.087 ms

Loss rate: 1.10%

Run 8: Report of SReAM — Data Link

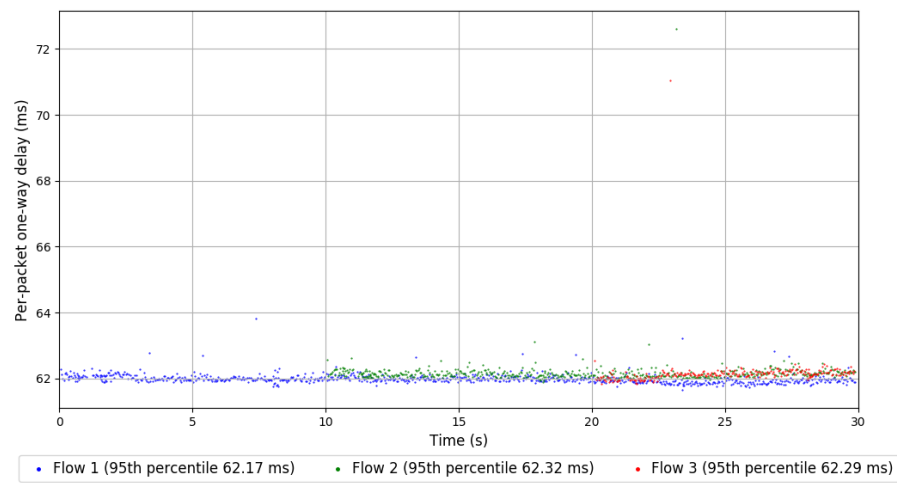
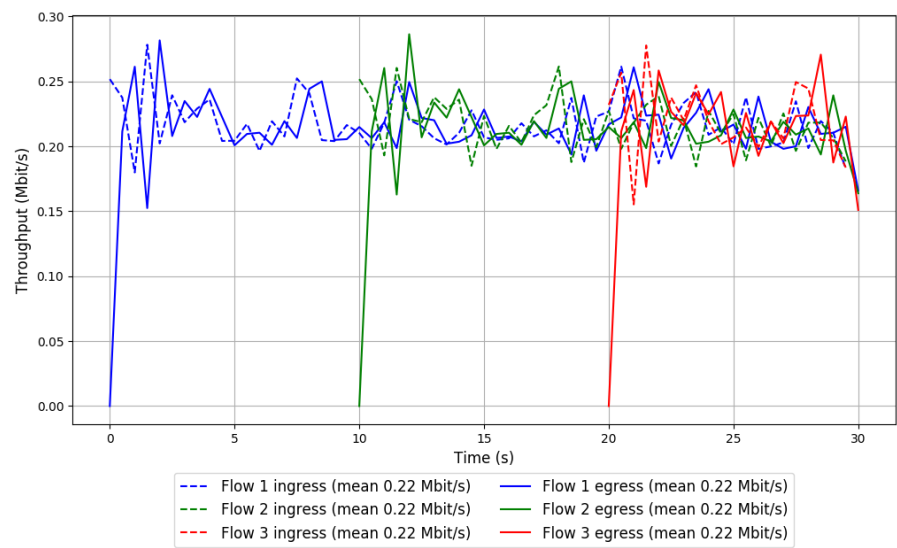


Run 9: Statistics of SReAM

Start at: 2018-05-23 13:21:50
End at: 2018-05-23 13:22:20
Local clock offset: -0.081 ms
Remote clock offset: -0.283 ms

Below is generated by plot.py at 2018-05-23 15:39:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 62.280 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.169 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.322 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.293 ms
Loss rate: 1.10%

Run 9: Report of SCRaM — Data Link

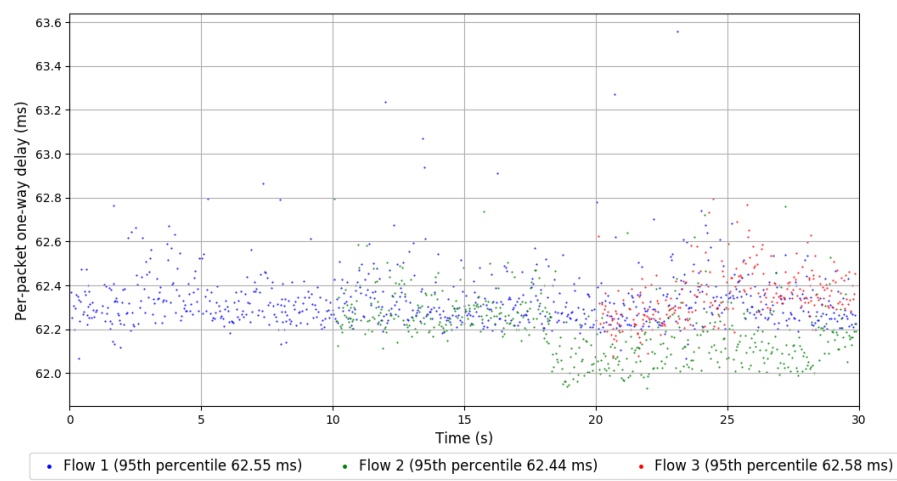
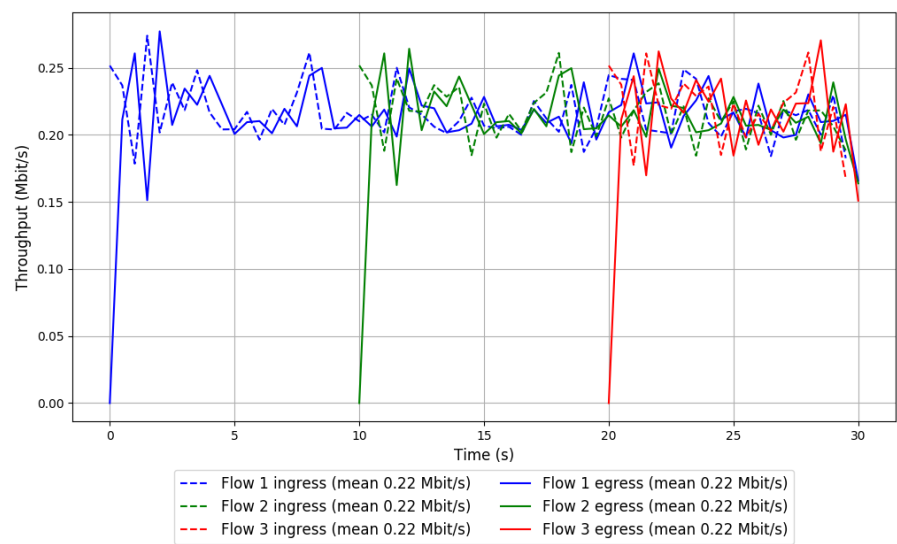


Run 10: Statistics of SCReAM

Start at: 2018-05-23 13:43:58
End at: 2018-05-23 13:44:28
Local clock offset: 0.208 ms
Remote clock offset: -0.443 ms

Below is generated by plot.py at 2018-05-23 15:39:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 62.525 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.548 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.440 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.577 ms
Loss rate: 1.10%

Run 10: Report of SReAM — Data Link

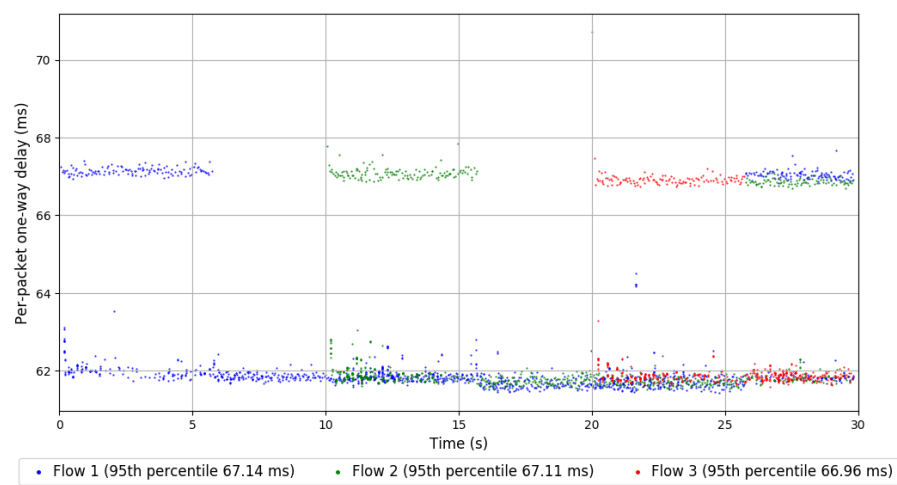
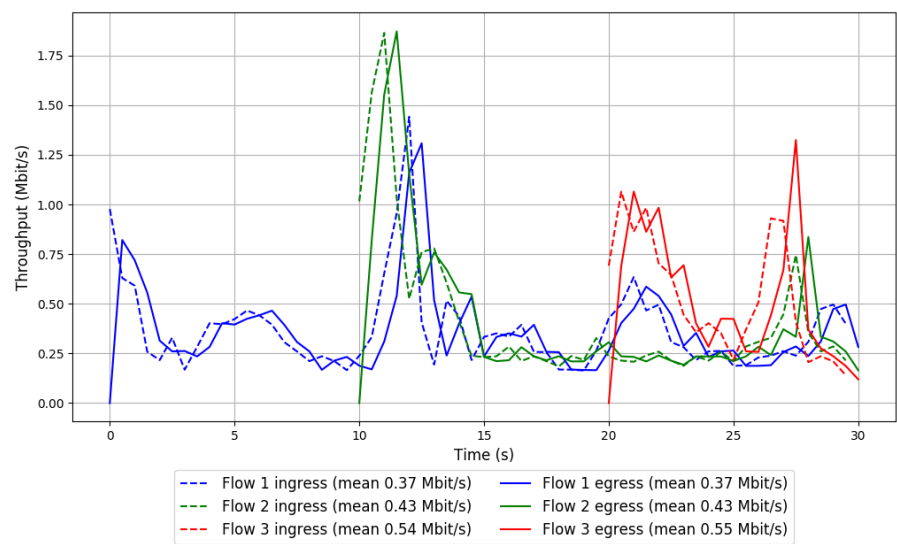


Run 1: Statistics of Sprout

Start at: 2018-05-23 10:28:10
End at: 2018-05-23 10:28:40
Local clock offset: -0.276 ms
Remote clock offset: -0.024 ms

Below is generated by plot.py at 2018-05-23 15:39:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.83 Mbit/s
95th percentile per-packet one-way delay: 67.113 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 67.143 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 67.114 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 66.962 ms
Loss rate: 0.43%

Run 1: Report of Sprout — Data Link

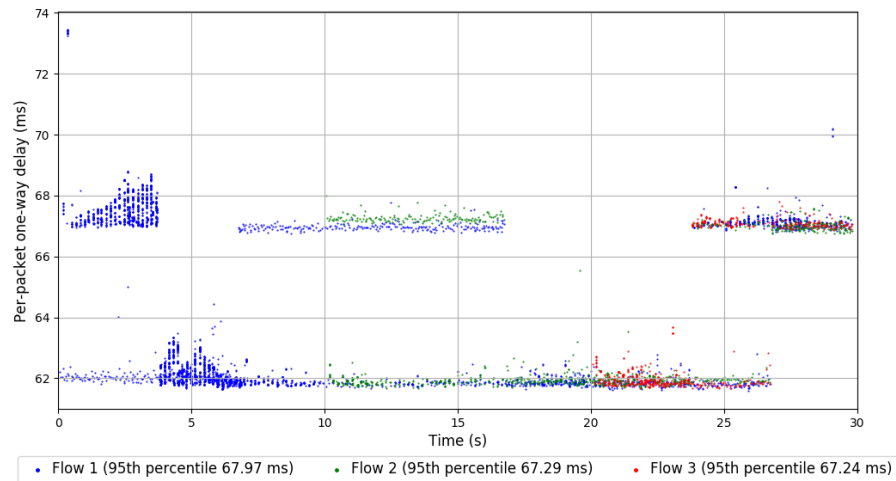
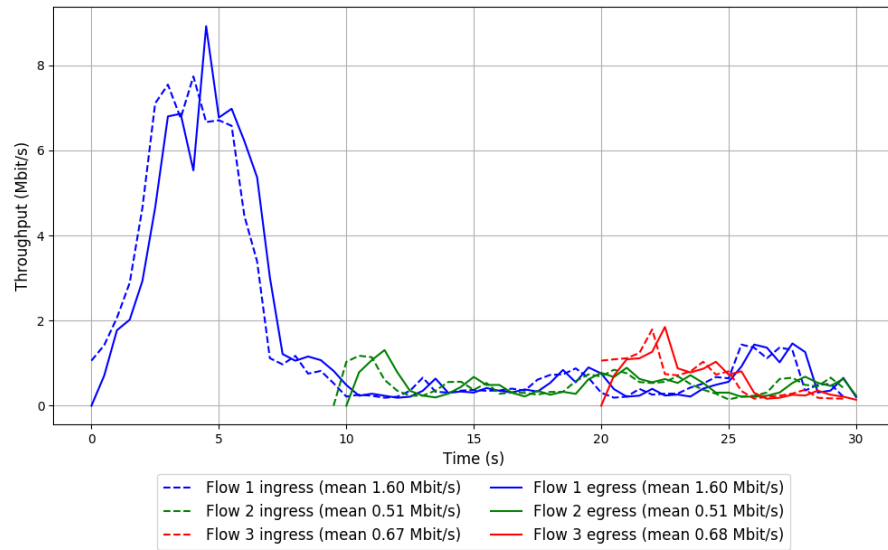


Run 2: Statistics of Sprout

Start at: 2018-05-23 10:50:29
End at: 2018-05-23 10:50:59
Local clock offset: -0.026 ms
Remote clock offset: -0.048 ms

```
# Below is generated by plot.py at 2018-05-23 15:39:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 67.879 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 1.60 Mbit/s
95th percentile per-packet one-way delay: 67.969 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 67.292 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 0.68 Mbit/s
95th percentile per-packet one-way delay: 67.237 ms
Loss rate: 0.20%
```

Run 2: Report of Sprout — Data Link

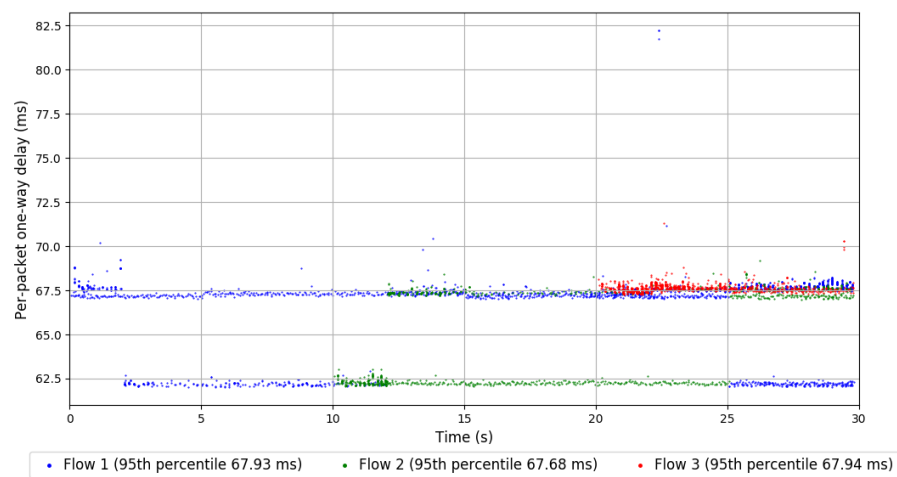
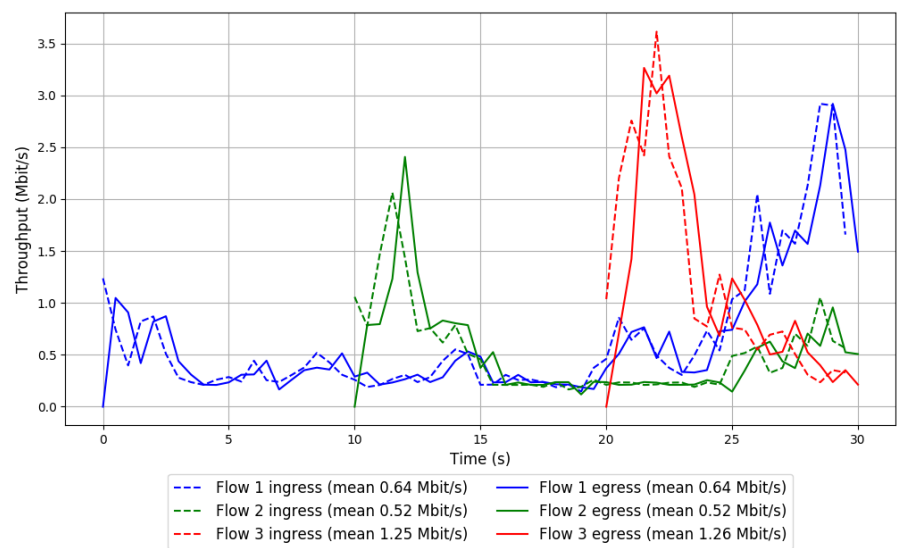


Run 3: Statistics of Sprout

Start at: 2018-05-23 11:13:01
End at: 2018-05-23 11:13:31
Local clock offset: 0.005 ms
Remote clock offset: -0.309 ms

```
# Below is generated by plot.py at 2018-05-23 15:39:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.39 Mbit/s
95th percentile per-packet one-way delay: 67.905 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 67.926 ms
Loss rate: 1.54%
-- Flow 2:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 67.676 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 1.26 Mbit/s
95th percentile per-packet one-way delay: 67.935 ms
Loss rate: 0.48%
```

Run 3: Report of Sprout — Data Link

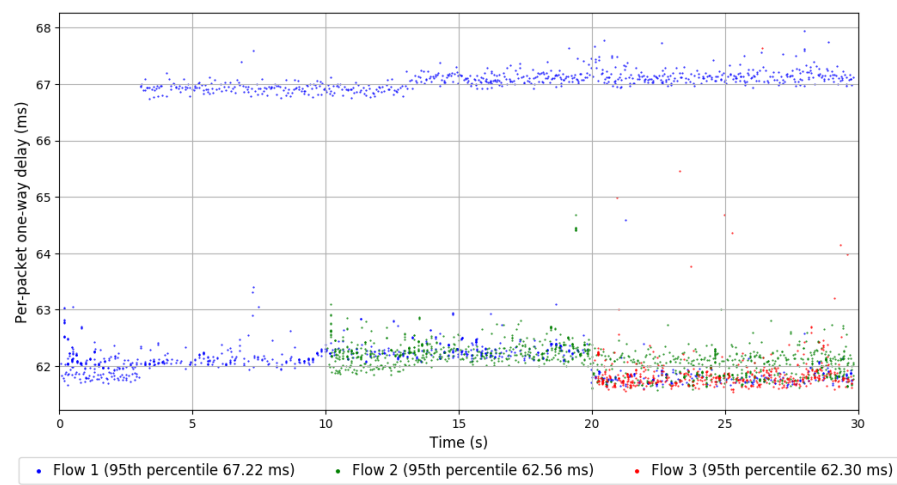
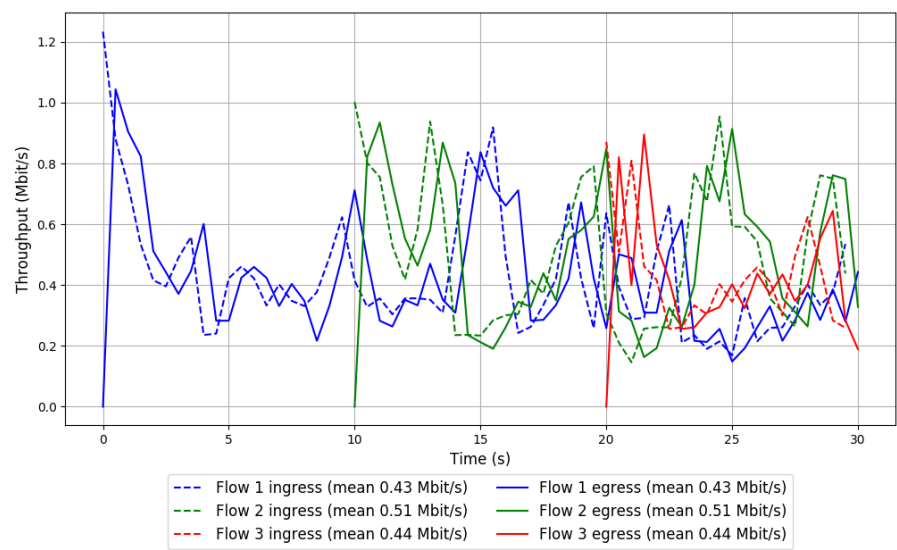


Run 4: Statistics of Sprout

Start at: 2018-05-23 11:35:33
End at: 2018-05-23 11:36:03
Local clock offset: -0.128 ms
Remote clock offset: -0.053 ms

```
# Below is generated by plot.py at 2018-05-23 15:39:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.91 Mbit/s
95th percentile per-packet one-way delay: 67.154 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 67.222 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 62.562 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 62.305 ms
Loss rate: 0.83%
```

Run 4: Report of Sprout — Data Link

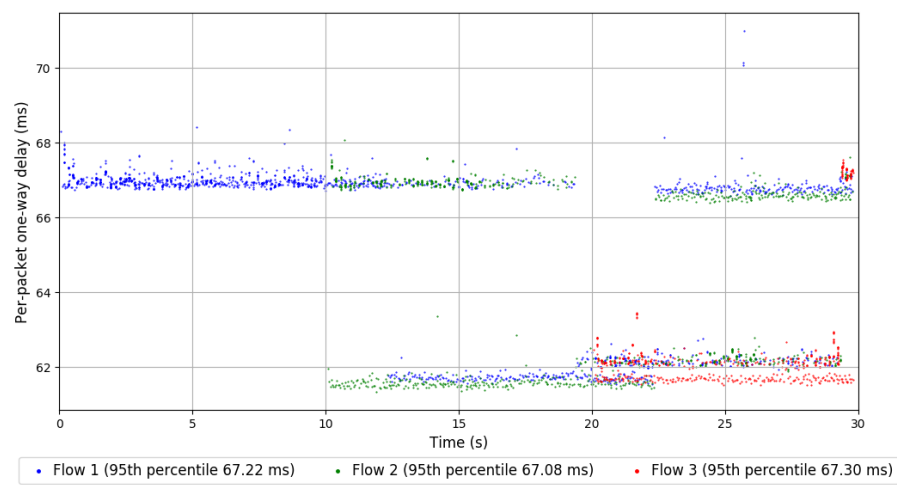
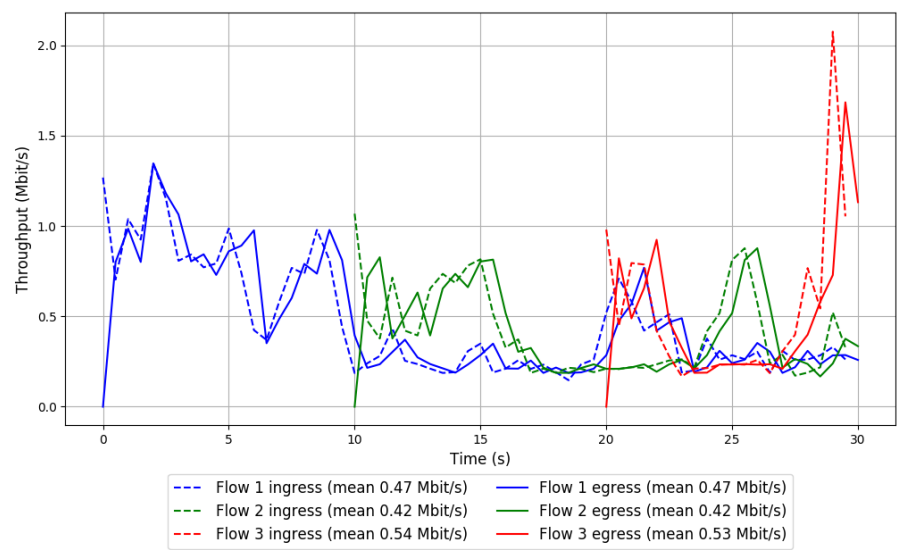


Run 5: Statistics of Sprout

Start at: 2018-05-23 11:57:43
End at: 2018-05-23 11:58:13
Local clock offset: -0.208 ms
Remote clock offset: 0.065 ms

Below is generated by plot.py at 2018-05-23 15:39:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.92 Mbit/s
95th percentile per-packet one-way delay: 67.202 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 67.219 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 67.078 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 67.299 ms
Loss rate: 2.98%

Run 5: Report of Sprout — Data Link

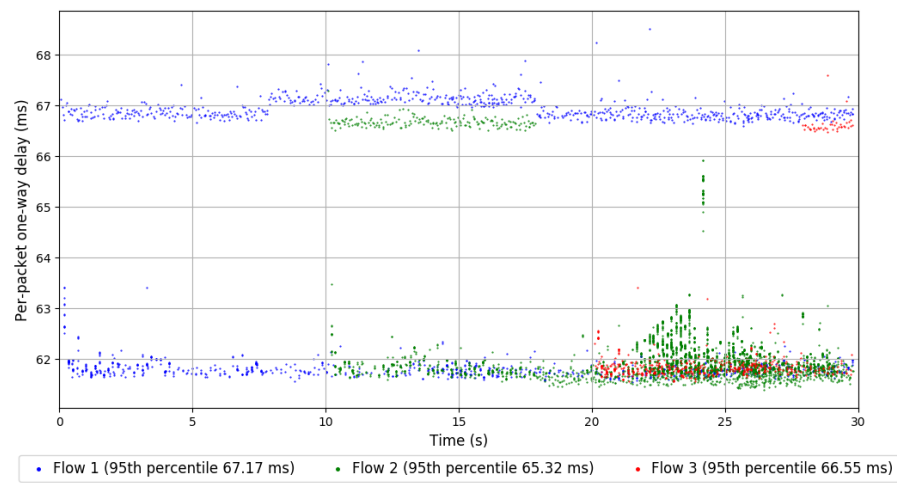
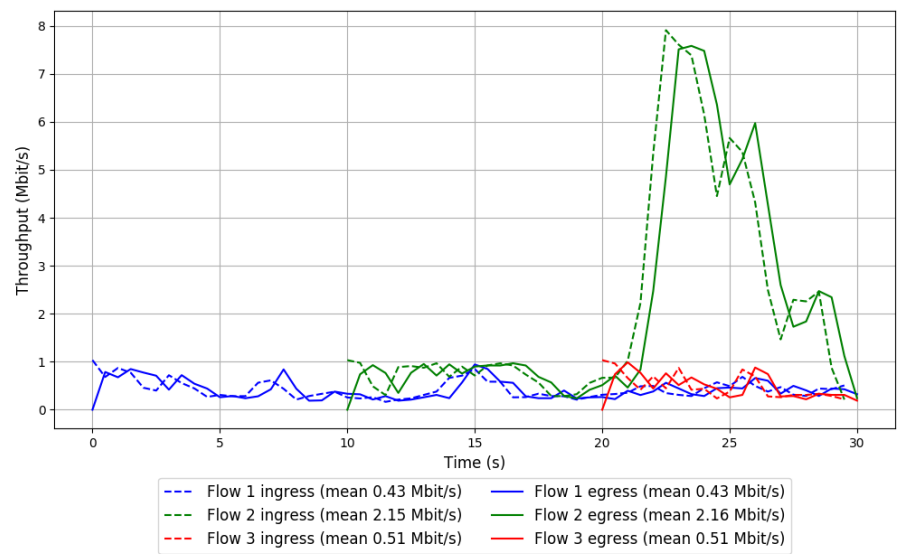


Run 6: Statistics of Sprout

Start at: 2018-05-23 12:19:48
End at: 2018-05-23 12:20:18
Local clock offset: -0.159 ms
Remote clock offset: 0.02 ms

Below is generated by plot.py at 2018-05-23 15:39:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 66.950 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 67.173 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 65.318 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 66.550 ms
Loss rate: 1.18%

Run 6: Report of Sprout — Data Link

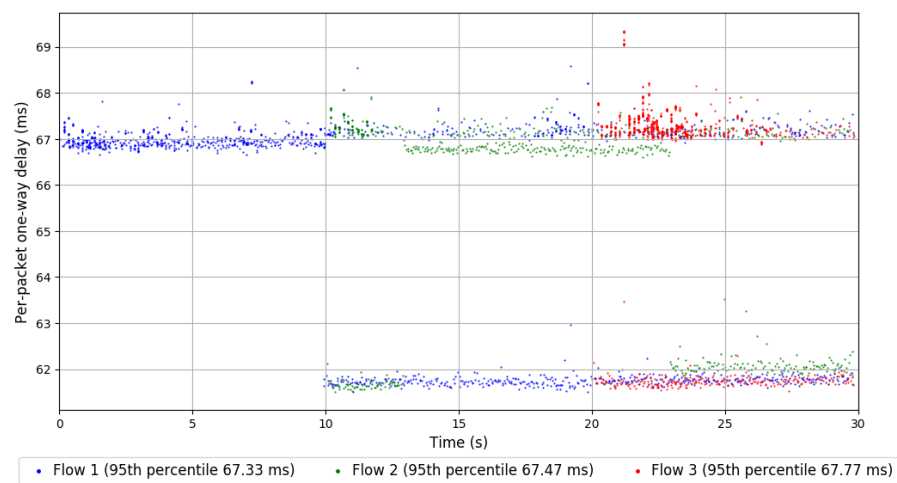
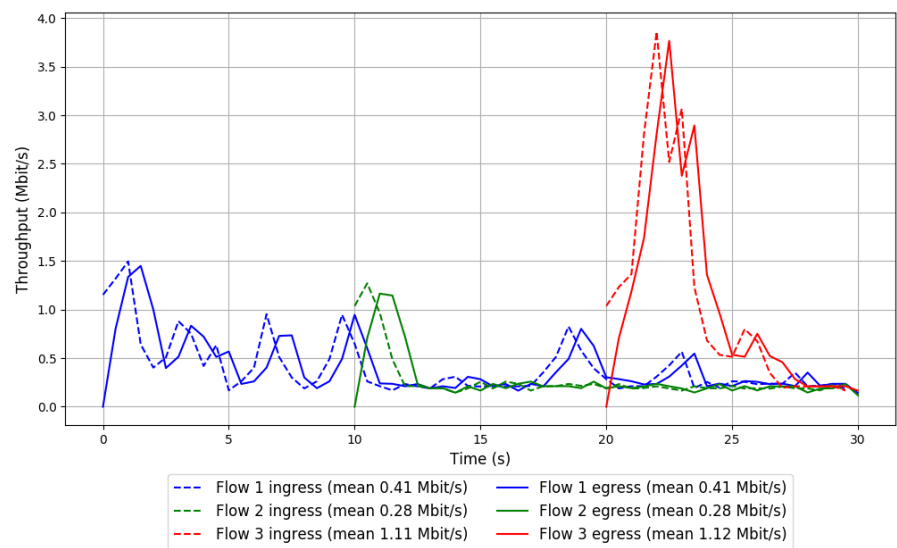


Run 7: Statistics of Sprout

Start at: 2018-05-23 12:42:13
End at: 2018-05-23 12:42:43
Local clock offset: 0.057 ms
Remote clock offset: 0.139 ms

Below is generated by plot.py at 2018-05-23 15:39:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.96 Mbit/s
95th percentile per-packet one-way delay: 67.536 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 67.328 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 67.467 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 1.12 Mbit/s
95th percentile per-packet one-way delay: 67.765 ms
Loss rate: 0.01%

Run 7: Report of Sprout — Data Link

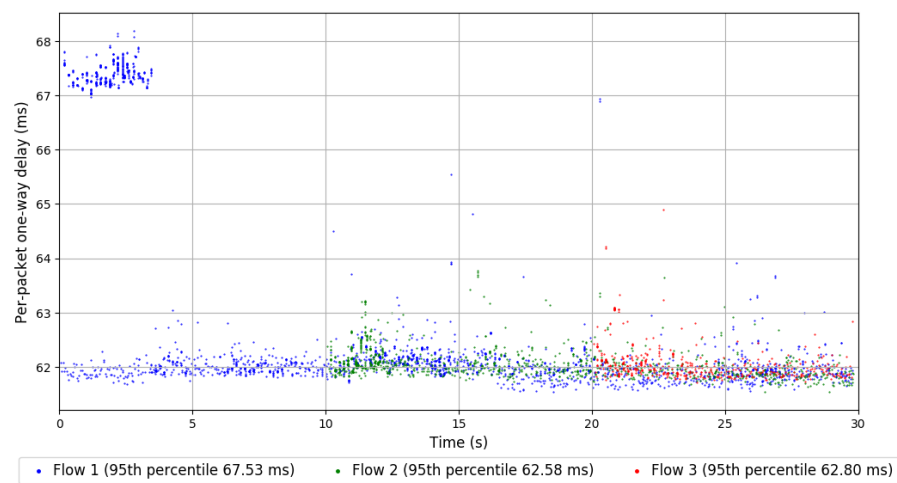
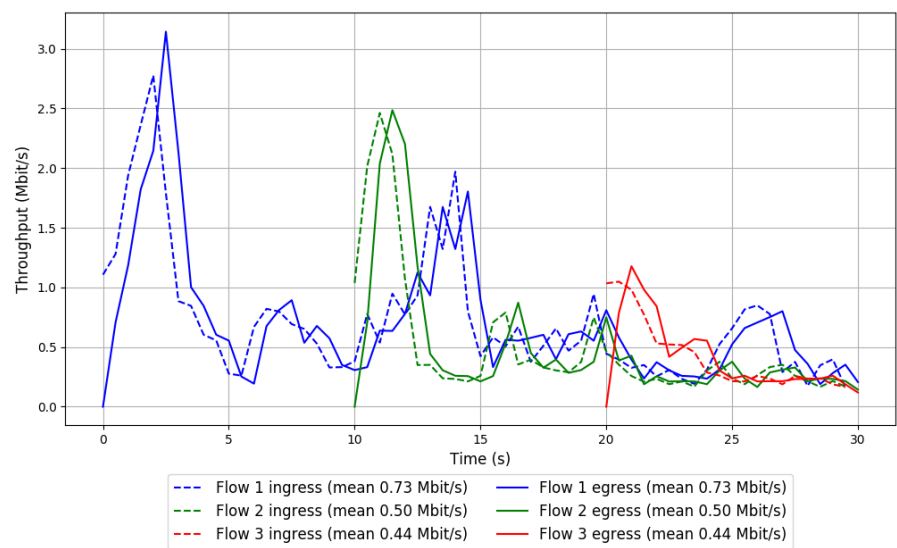


Run 8: Statistics of Sprout

Start at: 2018-05-23 13:04:49
End at: 2018-05-23 13:05:19
Local clock offset: -0.028 ms
Remote clock offset: 0.045 ms

```
# Below is generated by plot.py at 2018-05-23 15:39:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 67.406 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 0.73 Mbit/s
95th percentile per-packet one-way delay: 67.535 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 62.576 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 62.801 ms
Loss rate: 0.83%
```

Run 8: Report of Sprout — Data Link

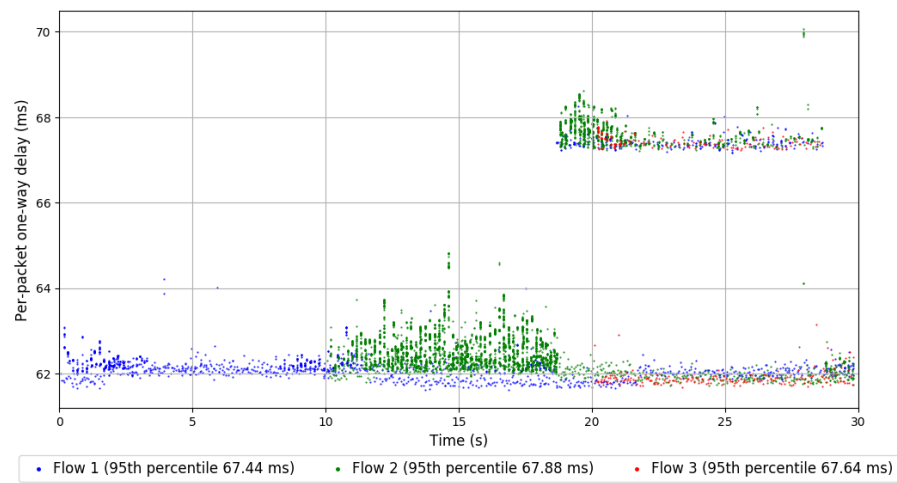
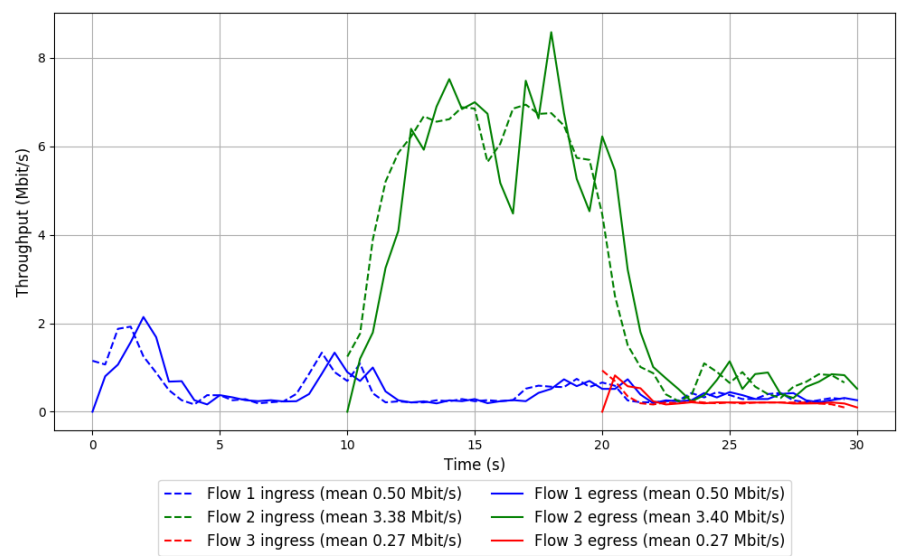


Run 9: Statistics of Sprout

Start at: 2018-05-23 13:27:04
End at: 2018-05-23 13:27:34
Local clock offset: -0.031 ms
Remote clock offset: -0.305 ms

Below is generated by plot.py at 2018-05-23 15:39:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.84 Mbit/s
95th percentile per-packet one-way delay: 67.796 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 67.436 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 3.40 Mbit/s
95th percentile per-packet one-way delay: 67.884 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 67.645 ms
Loss rate: 0.44%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-05-23 13:49:30

End at: 2018-05-23 13:50:00

Local clock offset: 0.197 ms

Remote clock offset: 0.092 ms

Below is generated by plot.py at 2018-05-23 15:39:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.96 Mbit/s

95th percentile per-packet one-way delay: 67.165 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 67.165 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 67.103 ms

Loss rate: 0.48%

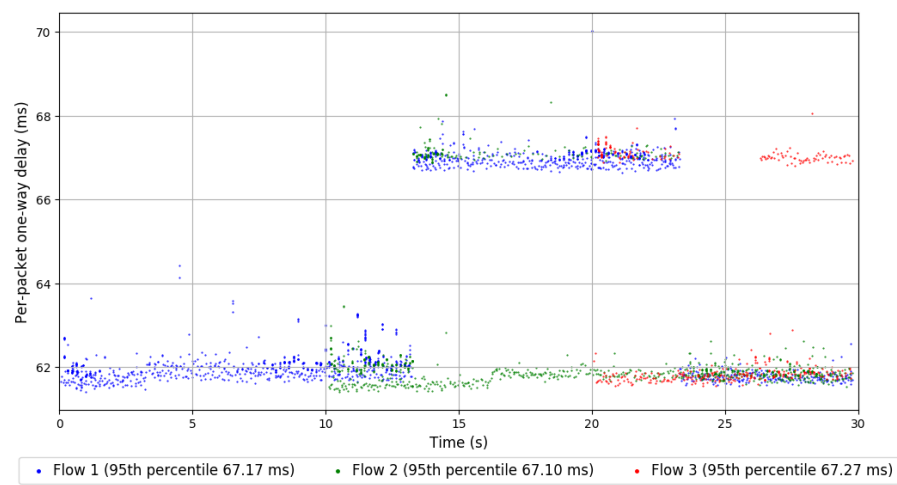
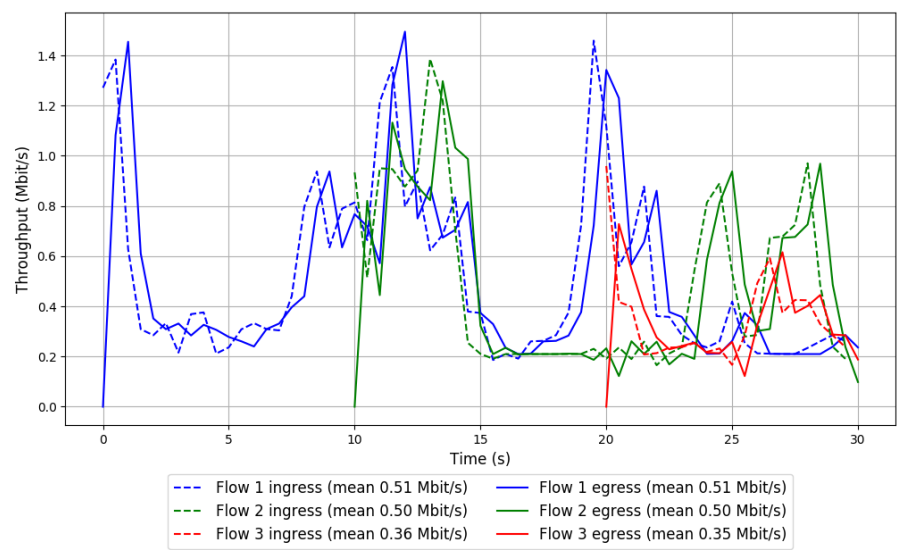
-- Flow 3:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 67.272 ms

Loss rate: 1.68%

Run 10: Report of Sprout — Data Link

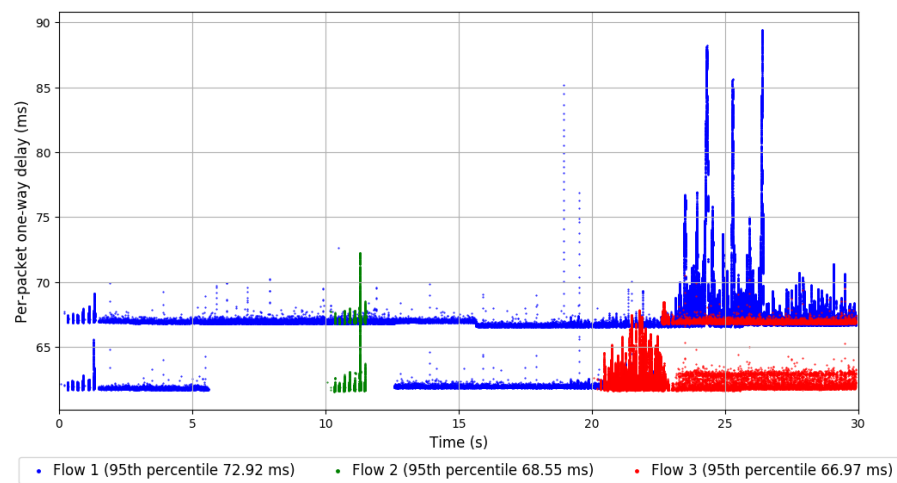
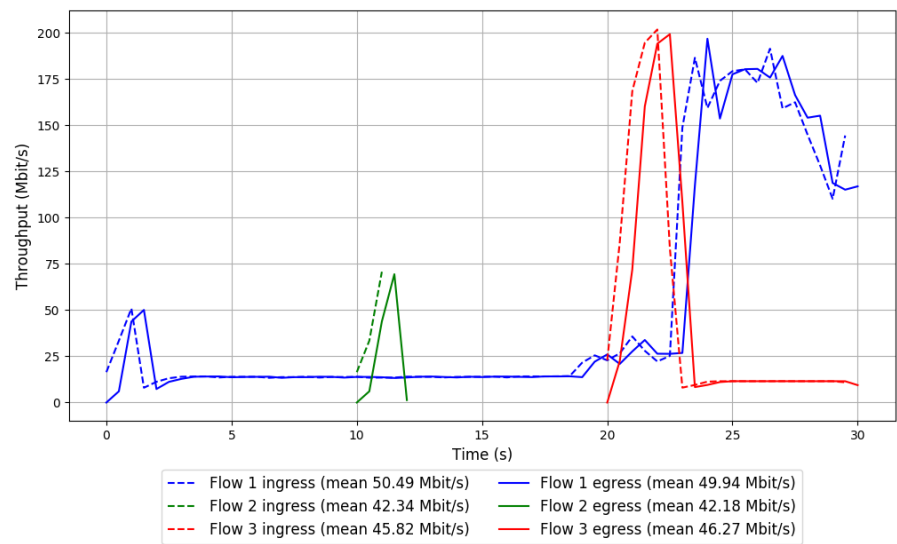


Run 1: Statistics of TaoVA-100x

Start at: 2018-05-23 10:24:10
End at: 2018-05-23 10:24:40
Local clock offset: -0.188 ms
Remote clock offset: -0.108 ms

Below is generated by plot.py at 2018-05-23 15:39:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 67.21 Mbit/s
95th percentile per-packet one-way delay: 71.402 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 49.94 Mbit/s
95th percentile per-packet one-way delay: 72.918 ms
Loss rate: 1.51%
-- Flow 2:
Average throughput: 42.18 Mbit/s
95th percentile per-packet one-way delay: 68.549 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 46.27 Mbit/s
95th percentile per-packet one-way delay: 66.968 ms
Loss rate: 0.34%

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

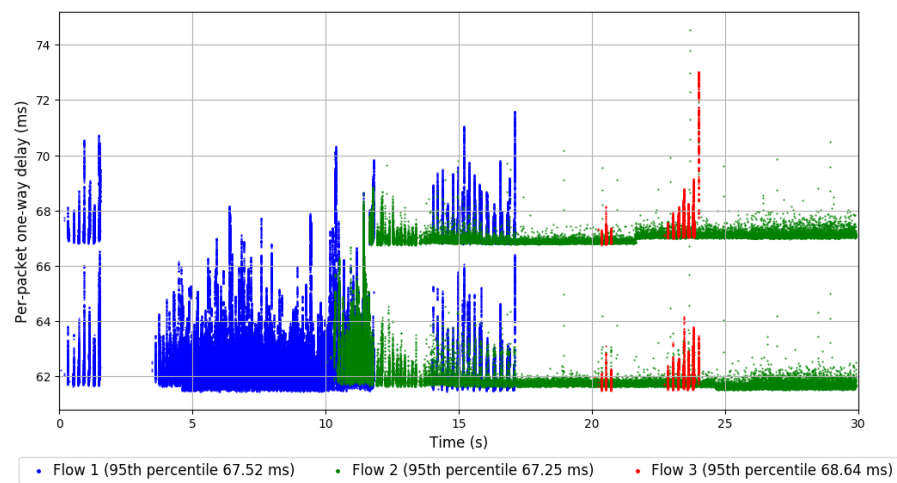
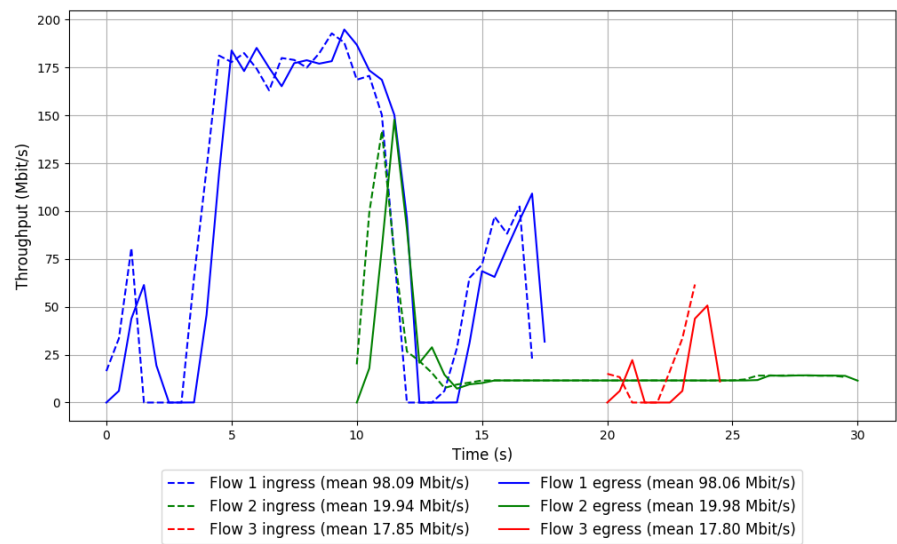


Run 2: Statistics of TaoVA-100x

Start at: 2018-05-23 10:46:31
End at: 2018-05-23 10:47:01
Local clock offset: -0.078 ms
Remote clock offset: -0.155 ms

Below is generated by plot.py at 2018-05-23 15:39:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 71.63 Mbit/s
95th percentile per-packet one-way delay: 67.505 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 98.06 Mbit/s
95th percentile per-packet one-way delay: 67.524 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 19.98 Mbit/s
95th percentile per-packet one-way delay: 67.255 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 17.80 Mbit/s
95th percentile per-packet one-way delay: 68.641 ms
Loss rate: 0.00%

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

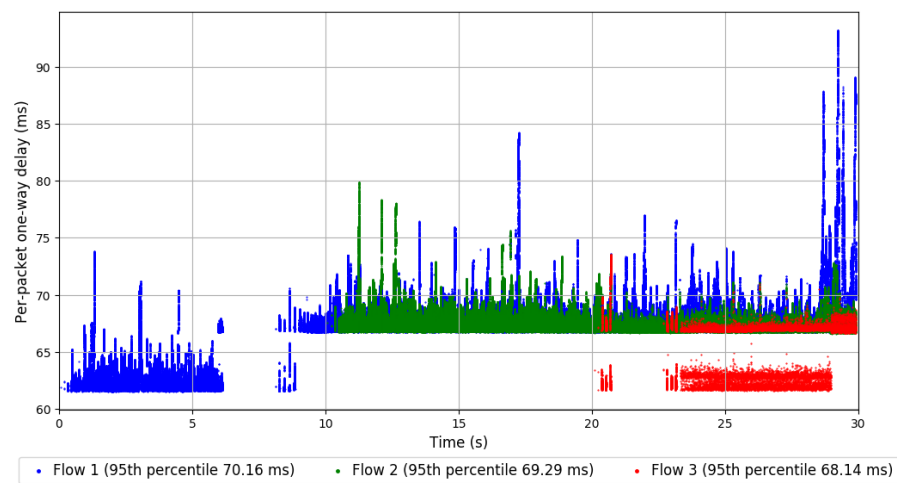
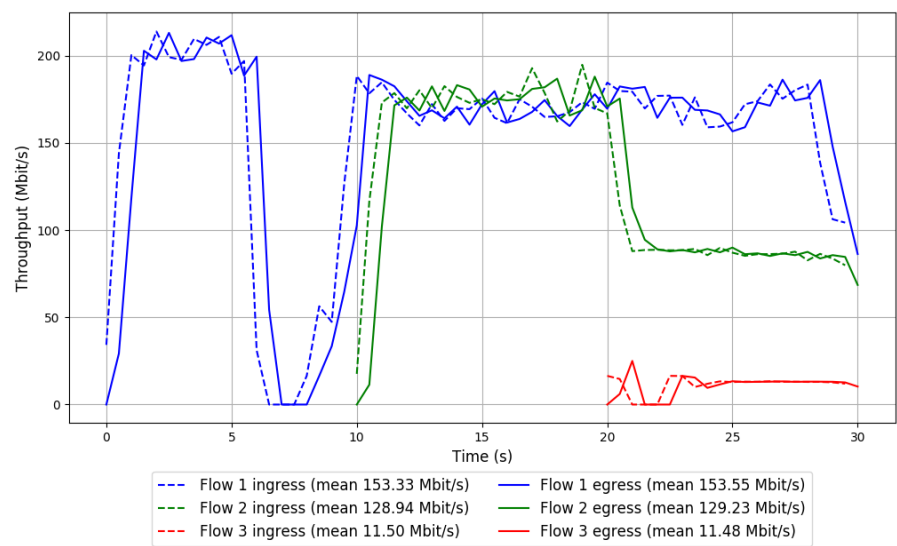


Run 3: Statistics of TaoVA-100x

Start at: 2018-05-23 11:08:37
End at: 2018-05-23 11:09:07
Local clock offset: -0.026 ms
Remote clock offset: -0.087 ms

Below is generated by plot.py at 2018-05-23 15:41:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 243.17 Mbit/s
95th percentile per-packet one-way delay: 69.822 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 153.55 Mbit/s
95th percentile per-packet one-way delay: 70.156 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 129.23 Mbit/s
95th percentile per-packet one-way delay: 69.287 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 11.48 Mbit/s
95th percentile per-packet one-way delay: 68.136 ms
Loss rate: 1.44%

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

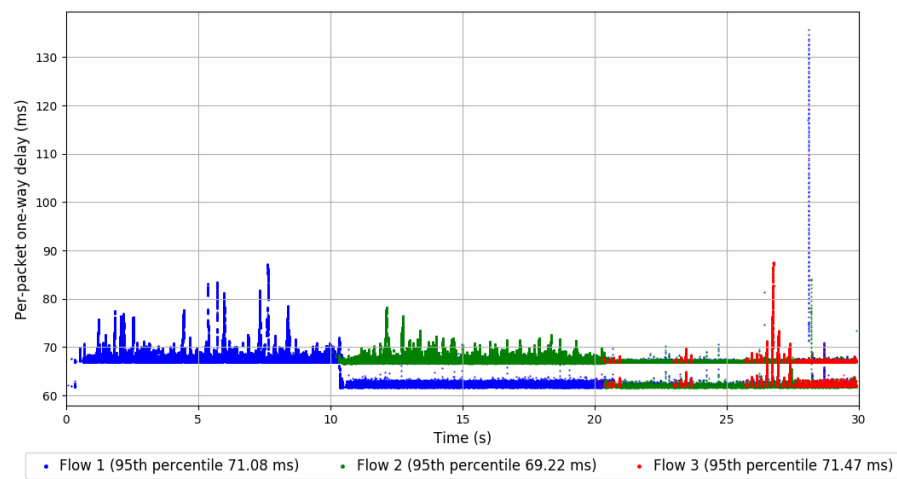
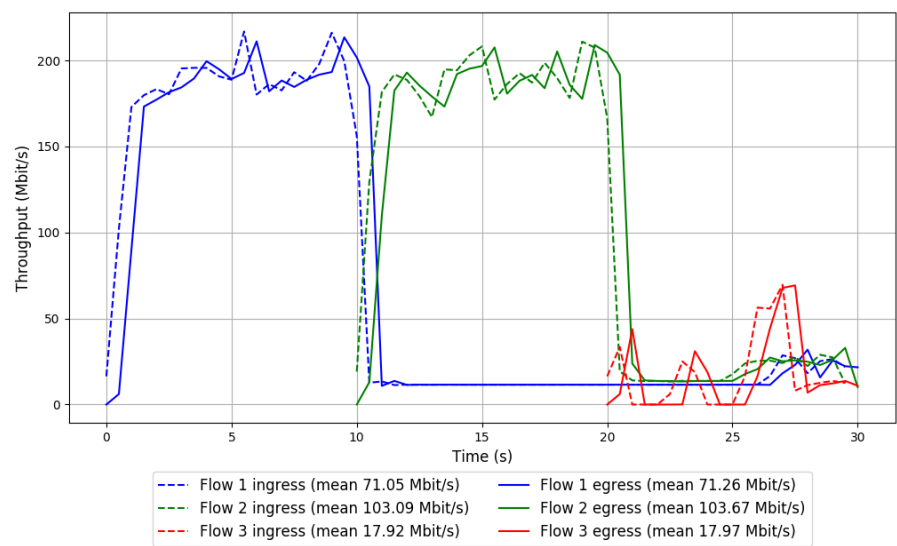


Run 4: Statistics of TaoVA-100x

Start at: 2018-05-23 11:31:15
End at: 2018-05-23 11:31:45
Local clock offset: -0.119 ms
Remote clock offset: -0.168 ms

Below is generated by plot.py at 2018-05-23 15:41:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 145.94 Mbit/s
95th percentile per-packet one-way delay: 70.085 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 71.26 Mbit/s
95th percentile per-packet one-way delay: 71.075 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 103.67 Mbit/s
95th percentile per-packet one-way delay: 69.216 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 17.97 Mbit/s
95th percentile per-packet one-way delay: 71.469 ms
Loss rate: 0.98%

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

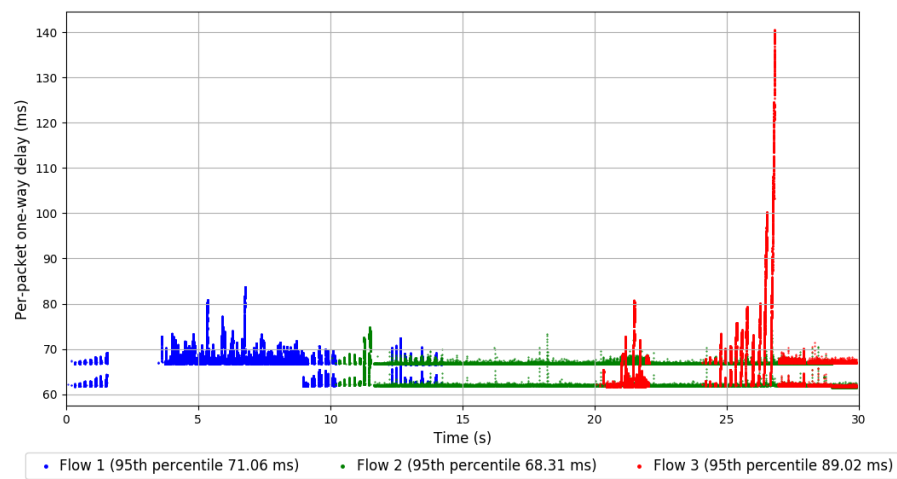
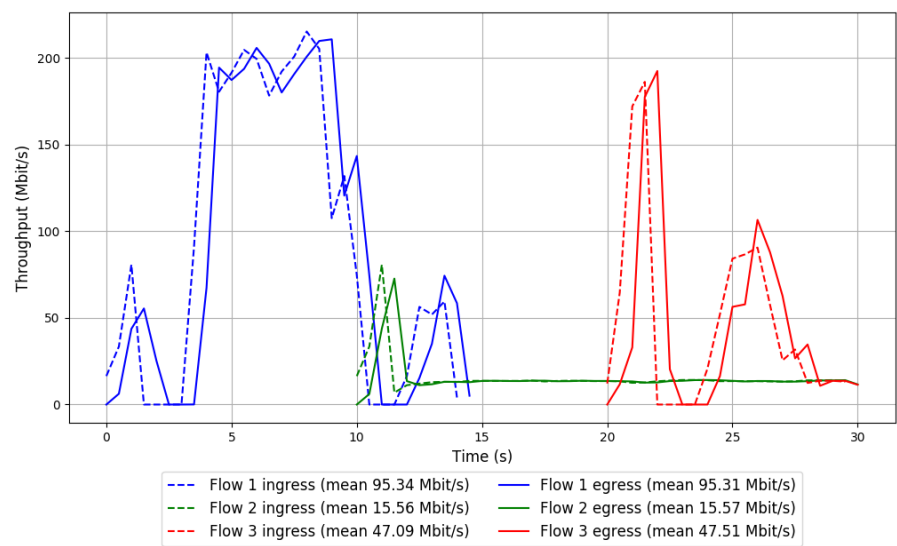


Run 5: Statistics of TaoVA-100x

Start at: 2018-05-23 11:53:34
End at: 2018-05-23 11:54:04
Local clock offset: -0.183 ms
Remote clock offset: -0.075 ms

Below is generated by plot.py at 2018-05-23 15:41:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 71.13 Mbit/s
95th percentile per-packet one-way delay: 73.211 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 95.31 Mbit/s
95th percentile per-packet one-way delay: 71.065 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 15.57 Mbit/s
95th percentile per-packet one-way delay: 68.314 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 47.51 Mbit/s
95th percentile per-packet one-way delay: 89.017 ms
Loss rate: 0.37%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-05-23 12:15:42

End at: 2018-05-23 12:16:12

Local clock offset: -0.102 ms

Remote clock offset: 0.303 ms

Below is generated by plot.py at 2018-05-23 15:41:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 107.82 Mbit/s

95th percentile per-packet one-way delay: 71.593 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 24.08 Mbit/s

95th percentile per-packet one-way delay: 68.475 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 131.92 Mbit/s

95th percentile per-packet one-way delay: 70.695 ms

Loss rate: 0.43%

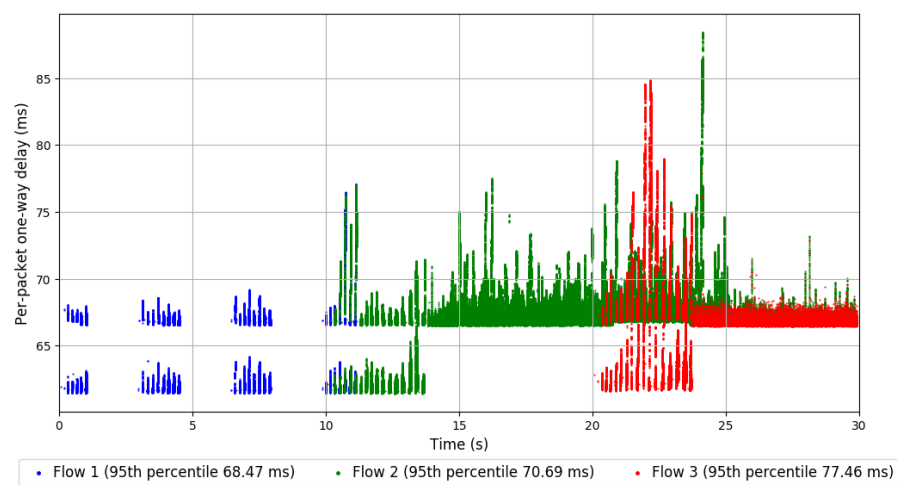
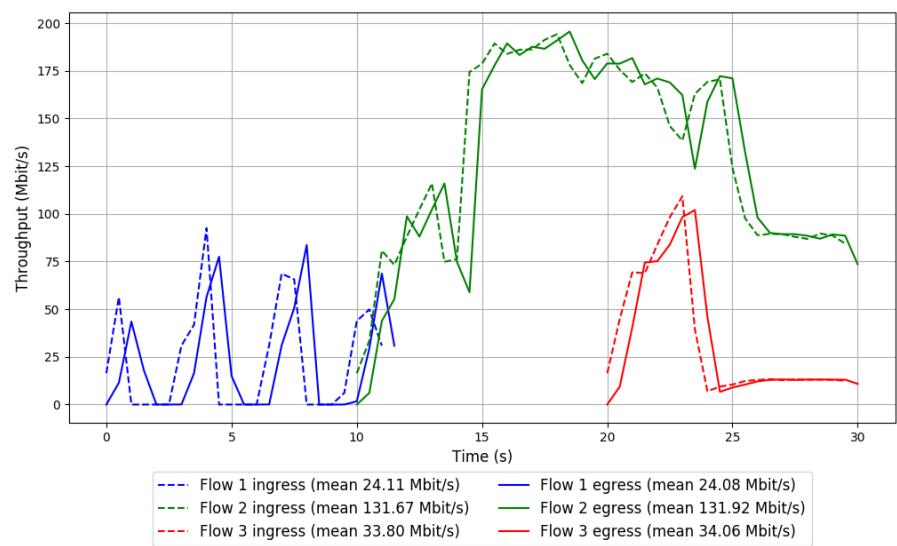
-- Flow 3:

Average throughput: 34.06 Mbit/s

95th percentile per-packet one-way delay: 77.464 ms

Loss rate: 0.50%

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

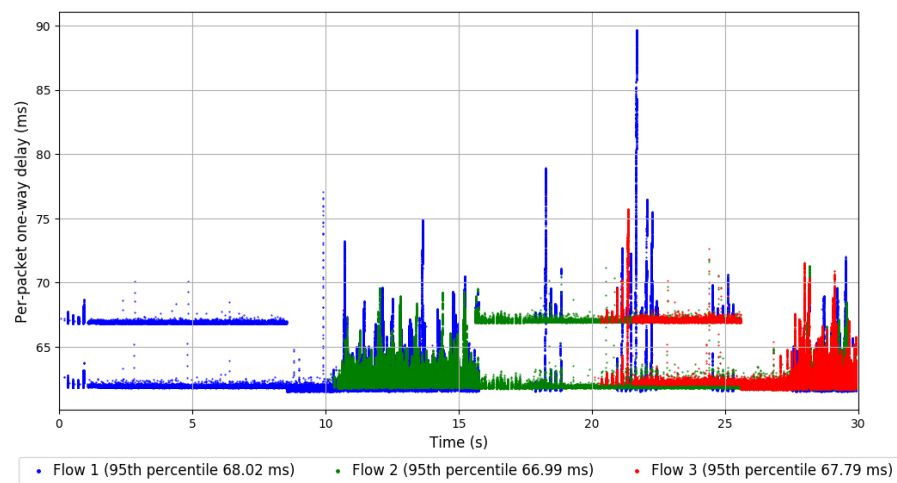
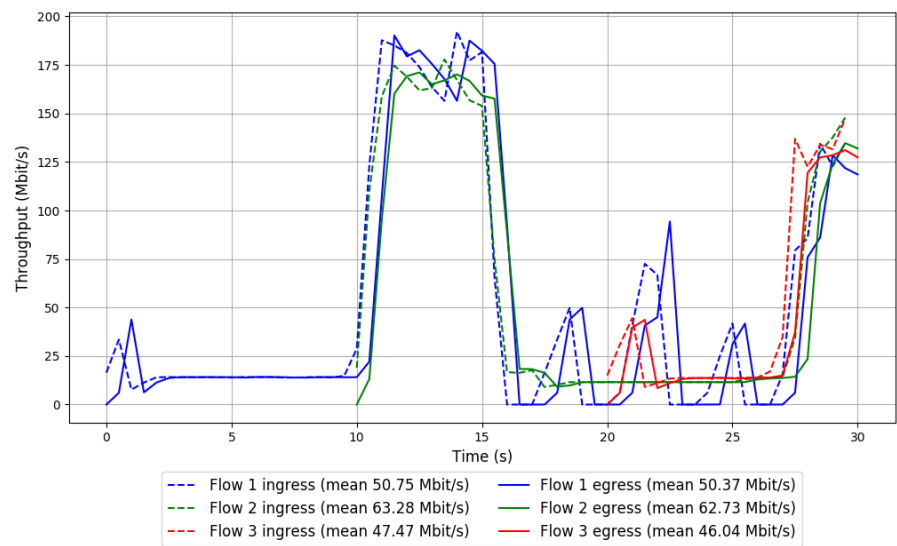


Run 7: Statistics of TaoVA-100x

Start at: 2018-05-23 12:38:07
End at: 2018-05-23 12:38:37
Local clock offset: 0.017 ms
Remote clock offset: -0.173 ms

Below is generated by plot.py at 2018-05-23 15:41:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 107.21 Mbit/s
95th percentile per-packet one-way delay: 67.362 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 50.37 Mbit/s
95th percentile per-packet one-way delay: 68.019 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 62.73 Mbit/s
95th percentile per-packet one-way delay: 66.994 ms
Loss rate: 1.50%
-- Flow 3:
Average throughput: 46.04 Mbit/s
95th percentile per-packet one-way delay: 67.794 ms
Loss rate: 4.22%

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

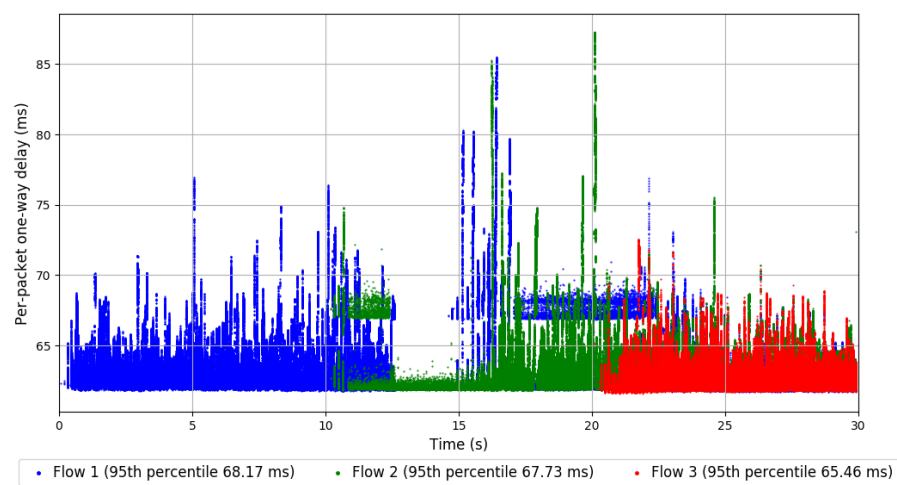
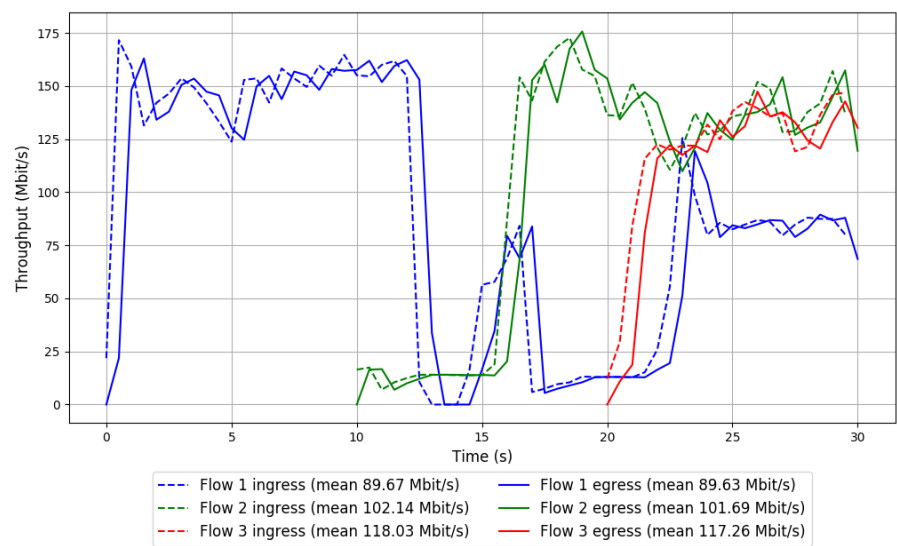


Run 8: Statistics of TaoVA-100x

Start at: 2018-05-23 13:00:33
End at: 2018-05-23 13:01:03
Local clock offset: -0.008 ms
Remote clock offset: -0.217 ms

Below is generated by plot.py at 2018-05-23 15:45:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 195.75 Mbit/s
95th percentile per-packet one-way delay: 67.595 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 89.63 Mbit/s
95th percentile per-packet one-way delay: 68.171 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 101.69 Mbit/s
95th percentile per-packet one-way delay: 67.731 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 117.26 Mbit/s
95th percentile per-packet one-way delay: 65.458 ms
Loss rate: 1.92%

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

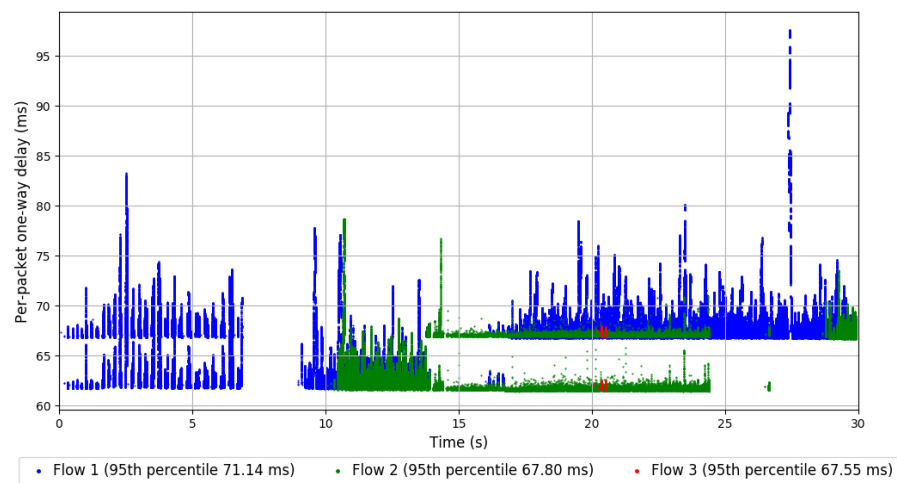
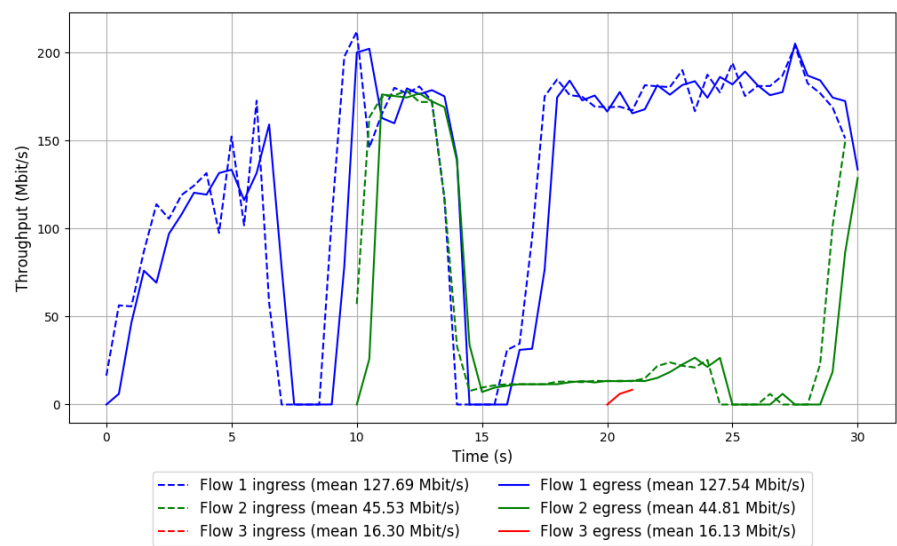


Run 9: Statistics of TaoVA-100x

Start at: 2018-05-23 13:22:59
End at: 2018-05-23 13:23:29
Local clock offset: -0.123 ms
Remote clock offset: -0.116 ms

Below is generated by plot.py at 2018-05-23 15:45:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 157.57 Mbit/s
95th percentile per-packet one-way delay: 70.693 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 127.54 Mbit/s
95th percentile per-packet one-way delay: 71.140 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 44.81 Mbit/s
95th percentile per-packet one-way delay: 67.796 ms
Loss rate: 2.21%
-- Flow 3:
Average throughput: 16.13 Mbit/s
95th percentile per-packet one-way delay: 67.548 ms
Loss rate: 0.00%

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

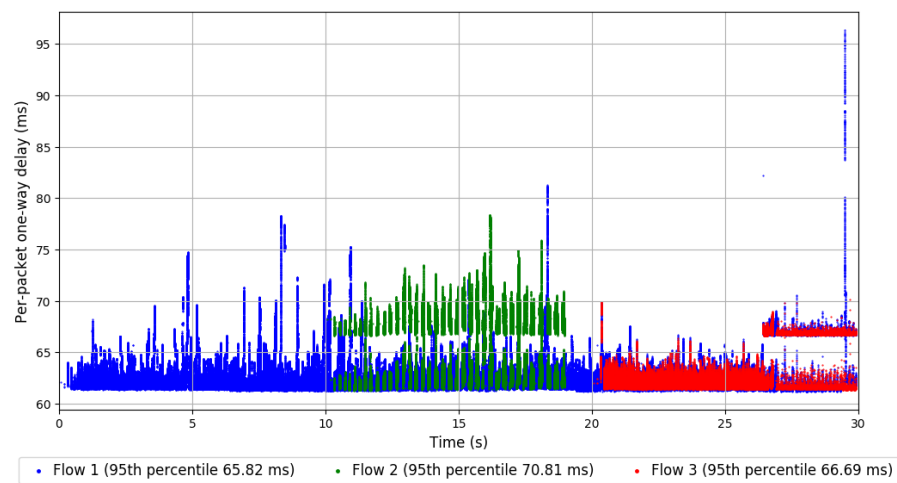
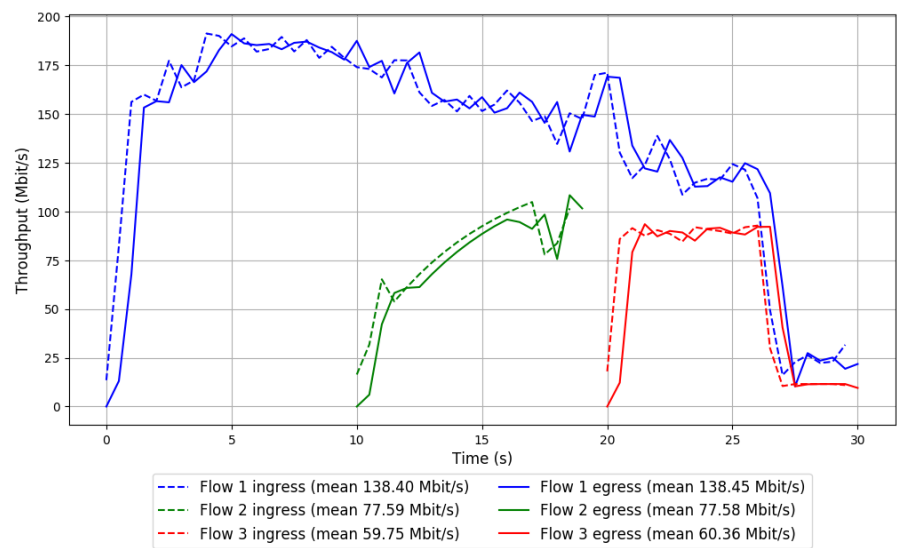


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-05-23 13:45:06
End at: 2018-05-23 13:45:36
Local clock offset: 0.221 ms
Remote clock offset: 0.247 ms

# Below is generated by plot.py at 2018-05-23 15:46:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 181.44 Mbit/s
95th percentile per-packet one-way delay: 68.025 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 138.45 Mbit/s
95th percentile per-packet one-way delay: 65.818 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 77.58 Mbit/s
95th percentile per-packet one-way delay: 70.812 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 60.36 Mbit/s
95th percentile per-packet one-way delay: 66.692 ms
Loss rate: 0.25%
```

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

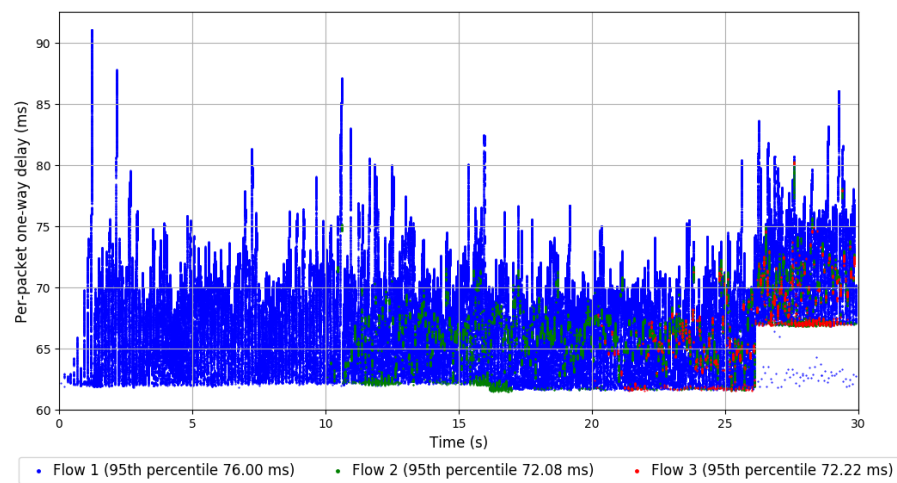
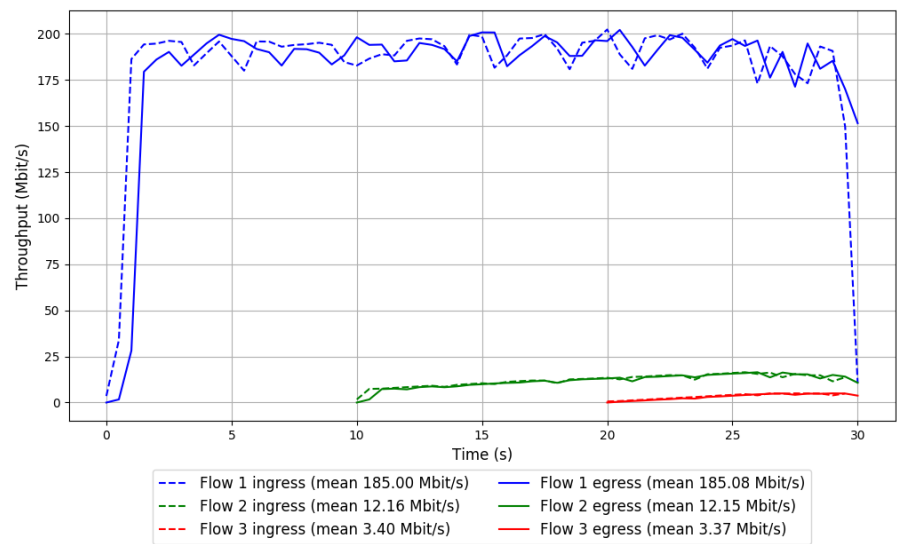


Run 1: Statistics of TCP Vegas

Start at: 2018-05-23 10:13:17
End at: 2018-05-23 10:13:47
Local clock offset: -0.231 ms
Remote clock offset: -0.093 ms

Below is generated by plot.py at 2018-05-23 15:46:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 194.25 Mbit/s
95th percentile per-packet one-way delay: 75.893 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 185.08 Mbit/s
95th percentile per-packet one-way delay: 75.998 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 12.15 Mbit/s
95th percentile per-packet one-way delay: 72.082 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 3.37 Mbit/s
95th percentile per-packet one-way delay: 72.218 ms
Loss rate: 2.07%

Run 1: Report of TCP Vegas — Data Link

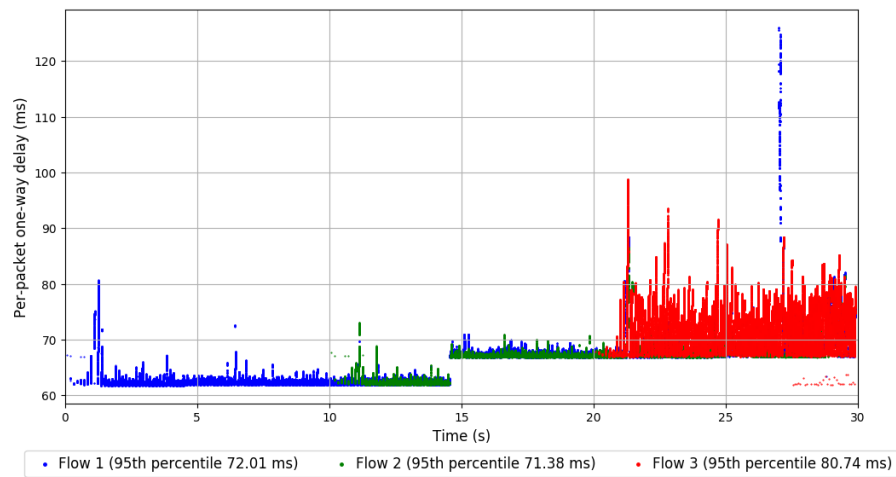
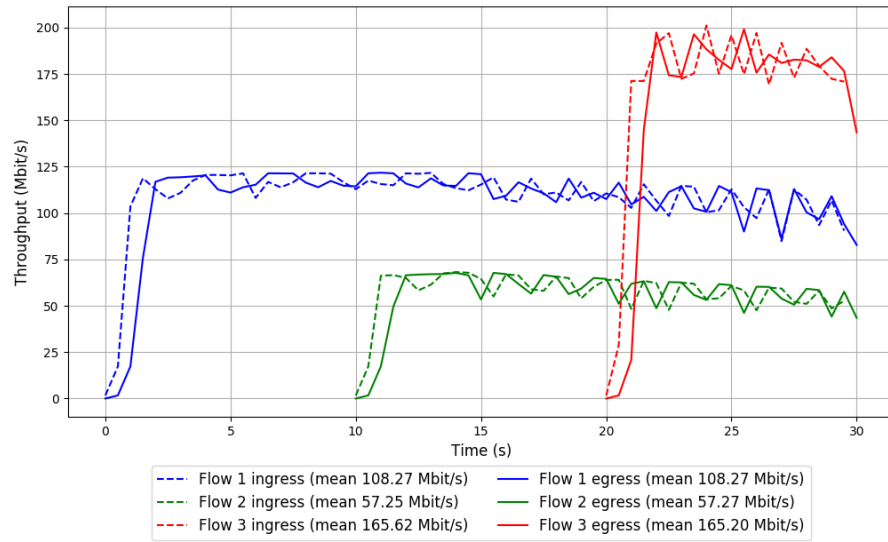


Run 2: Statistics of TCP Vegas

Start at: 2018-05-23 10:35:28
End at: 2018-05-23 10:35:58
Local clock offset: -0.229 ms
Remote clock offset: -0.262 ms

Below is generated by plot.py at 2018-05-23 15:46:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 200.72 Mbit/s
95th percentile per-packet one-way delay: 77.913 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 108.27 Mbit/s
95th percentile per-packet one-way delay: 72.006 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 57.27 Mbit/s
95th percentile per-packet one-way delay: 71.384 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 165.20 Mbit/s
95th percentile per-packet one-way delay: 80.743 ms
Loss rate: 1.57%

Run 2: Report of TCP Vegas — Data Link

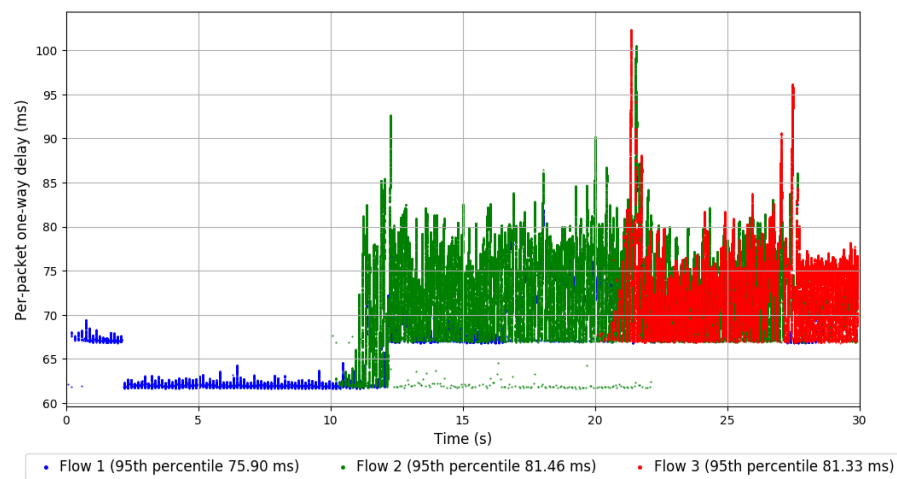
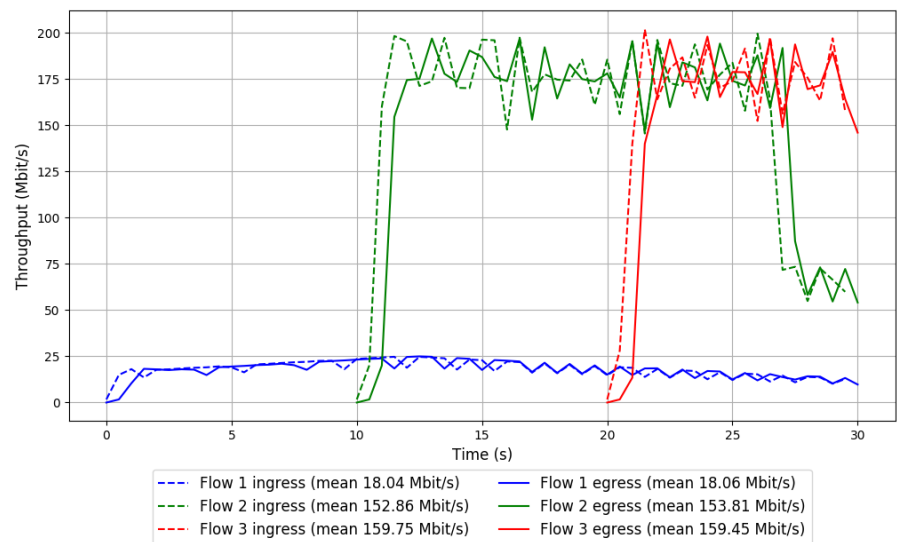


Run 3: Statistics of TCP Vegas

Start at: 2018-05-23 10:57:41
End at: 2018-05-23 10:58:11
Local clock offset: -0.024 ms
Remote clock offset: -0.106 ms

Below is generated by plot.py at 2018-05-23 15:46:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 172.50 Mbit/s
95th percentile per-packet one-way delay: 81.157 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 18.06 Mbit/s
95th percentile per-packet one-way delay: 75.898 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 153.81 Mbit/s
95th percentile per-packet one-way delay: 81.458 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 159.45 Mbit/s
95th percentile per-packet one-way delay: 81.333 ms
Loss rate: 1.51%

Run 3: Report of TCP Vegas — Data Link

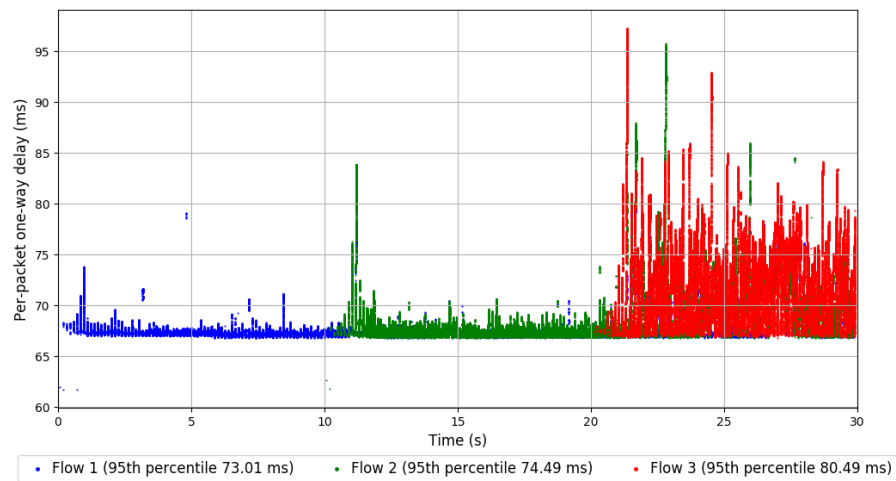
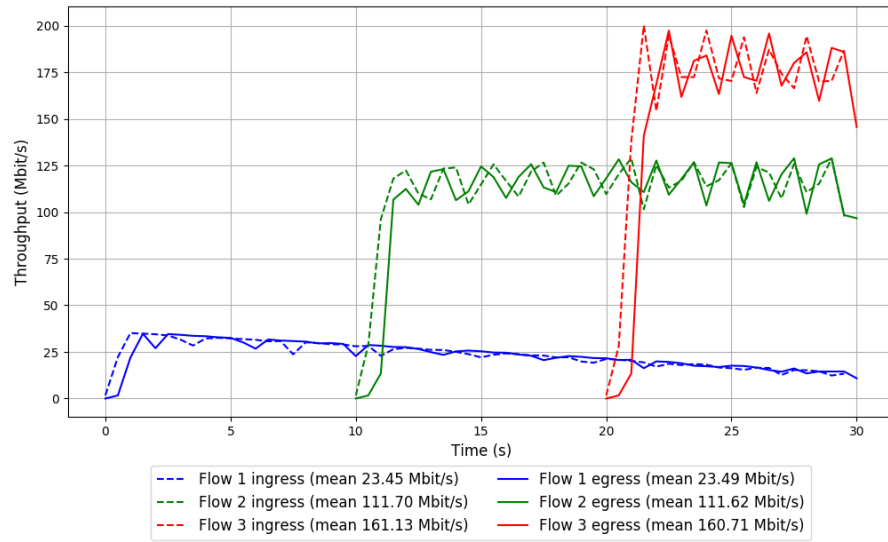


Run 4: Statistics of TCP Vegas

Start at: 2018-05-23 11:20:17
End at: 2018-05-23 11:20:47
Local clock offset: -0.08 ms
Remote clock offset: -0.107 ms

Below is generated by plot.py at 2018-05-23 15:46:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 150.45 Mbit/s
95th percentile per-packet one-way delay: 78.123 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 23.49 Mbit/s
95th percentile per-packet one-way delay: 73.008 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 111.62 Mbit/s
95th percentile per-packet one-way delay: 74.491 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 160.71 Mbit/s
95th percentile per-packet one-way delay: 80.493 ms
Loss rate: 1.56%

Run 4: Report of TCP Vegas — Data Link

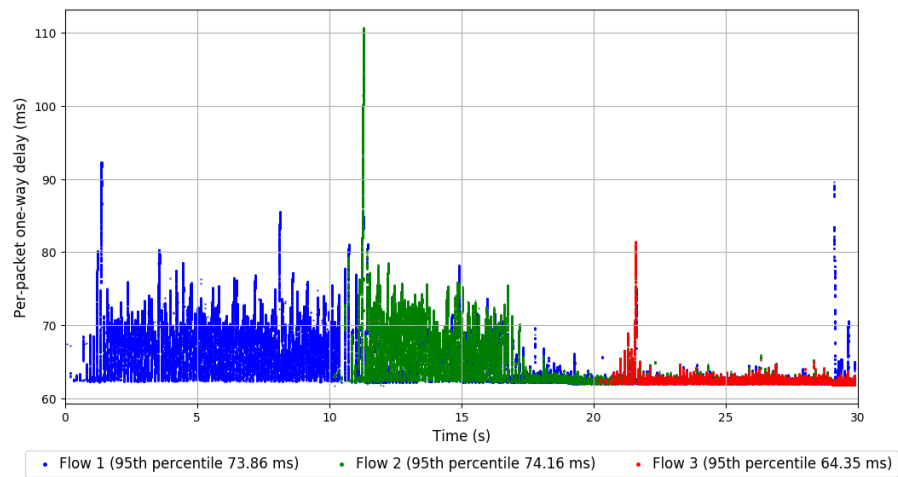
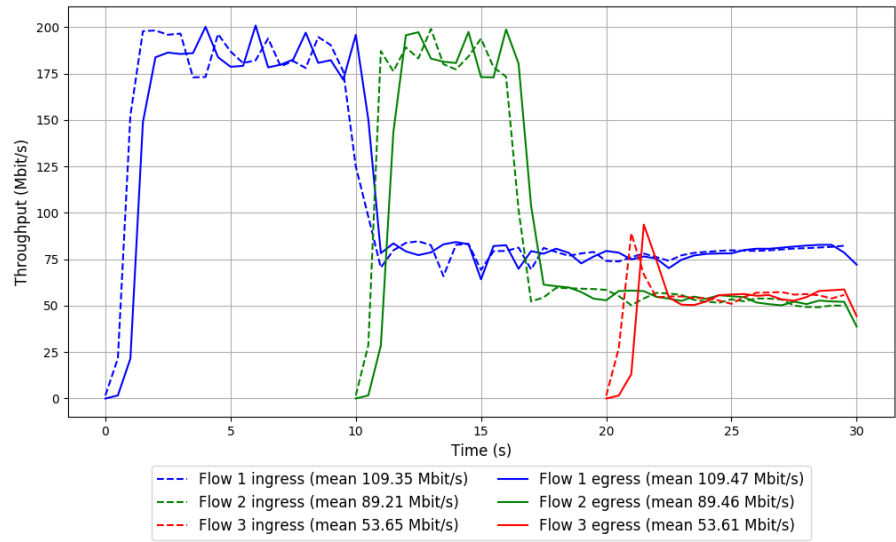


Run 5: Statistics of TCP Vegas

Start at: 2018-05-23 11:42:44
End at: 2018-05-23 11:43:14
Local clock offset: -0.123 ms
Remote clock offset: -0.212 ms

Below is generated by plot.py at 2018-05-23 15:46:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 186.48 Mbit/s
95th percentile per-packet one-way delay: 73.716 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 109.47 Mbit/s
95th percentile per-packet one-way delay: 73.862 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 89.46 Mbit/s
95th percentile per-packet one-way delay: 74.161 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 53.61 Mbit/s
95th percentile per-packet one-way delay: 64.352 ms
Loss rate: 1.38%

Run 5: Report of TCP Vegas — Data Link

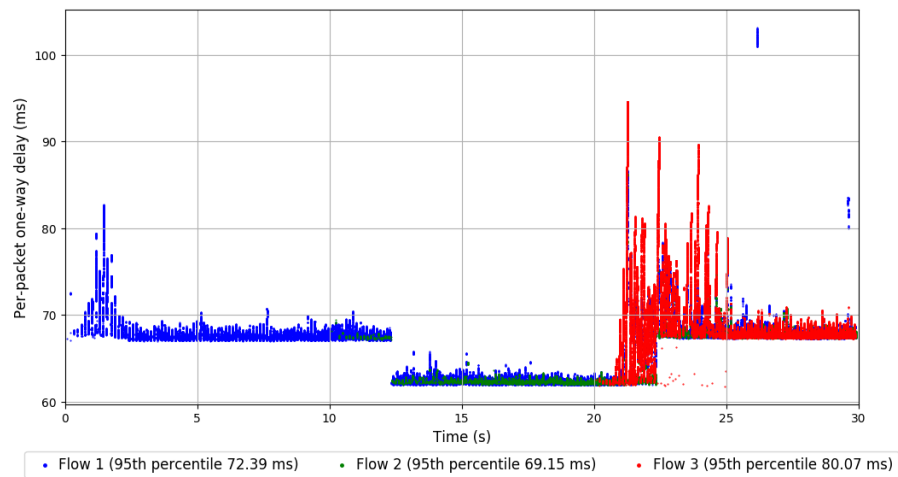
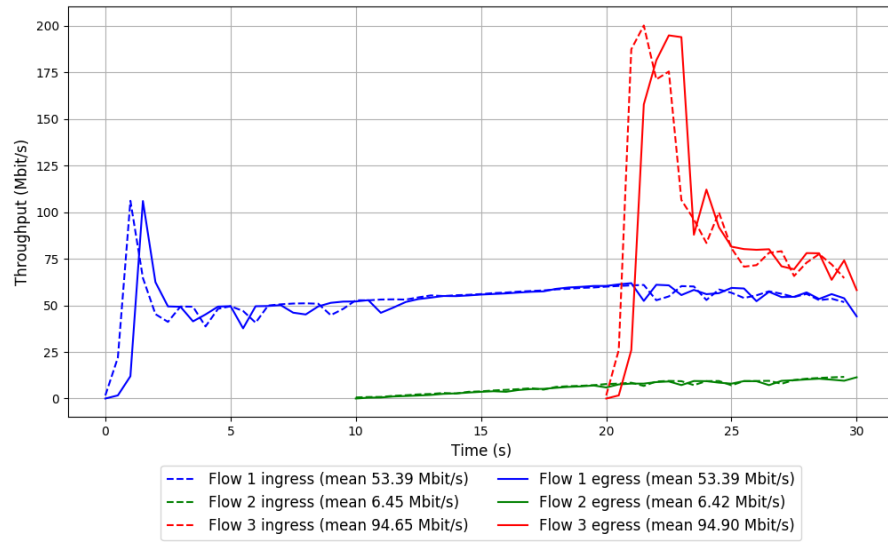


Run 6: Statistics of TCP Vegas

Start at: 2018-05-23 12:04:51
End at: 2018-05-23 12:05:21
Local clock offset: -0.209 ms
Remote clock offset: -0.337 ms

Below is generated by plot.py at 2018-05-23 15:46:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.84 Mbit/s
95th percentile per-packet one-way delay: 76.161 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 53.39 Mbit/s
95th percentile per-packet one-way delay: 72.390 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 6.42 Mbit/s
95th percentile per-packet one-way delay: 69.149 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 94.90 Mbit/s
95th percentile per-packet one-way delay: 80.070 ms
Loss rate: 1.03%

Run 6: Report of TCP Vegas — Data Link

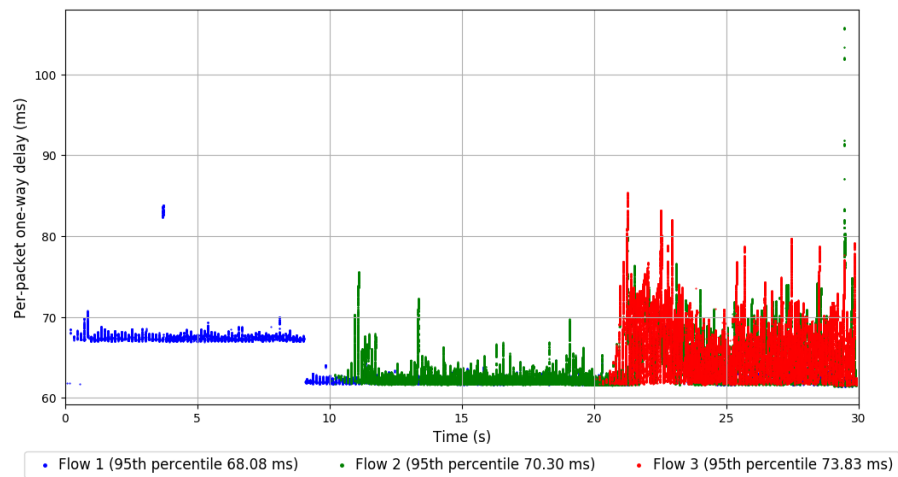
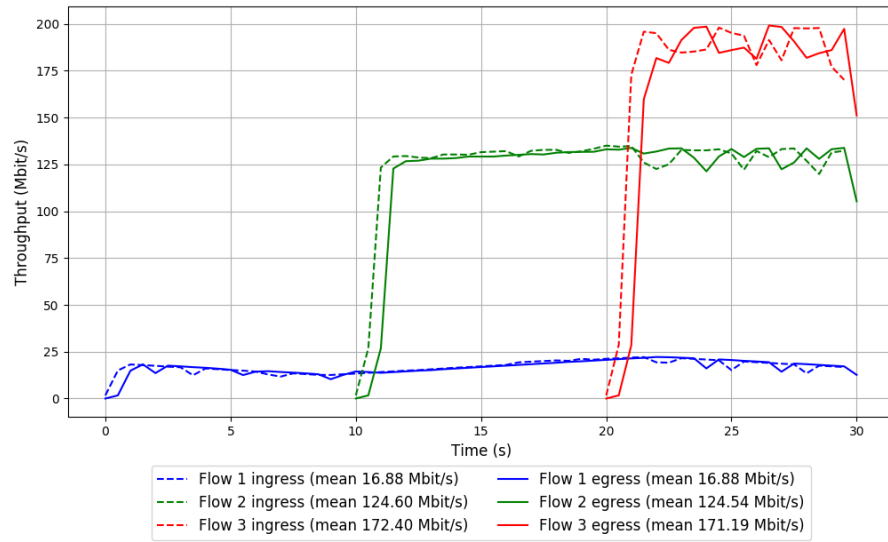


Run 7: Statistics of TCP Vegas

Start at: 2018-05-23 12:27:14
End at: 2018-05-23 12:27:44
Local clock offset: -0.074 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2018-05-23 15:46:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 156.03 Mbit/s
95th percentile per-packet one-way delay: 72.116 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 16.88 Mbit/s
95th percentile per-packet one-way delay: 68.077 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 124.54 Mbit/s
95th percentile per-packet one-way delay: 70.301 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 171.19 Mbit/s
95th percentile per-packet one-way delay: 73.829 ms
Loss rate: 1.38%

Run 7: Report of TCP Vegas — Data Link

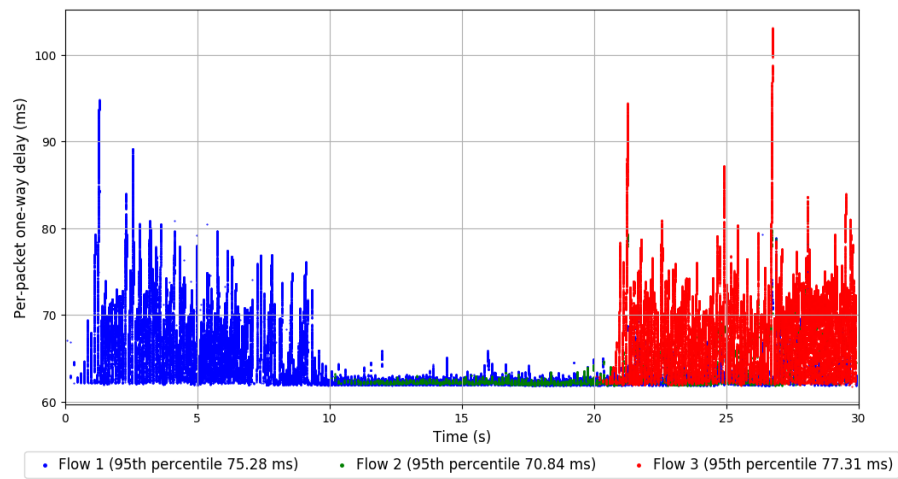
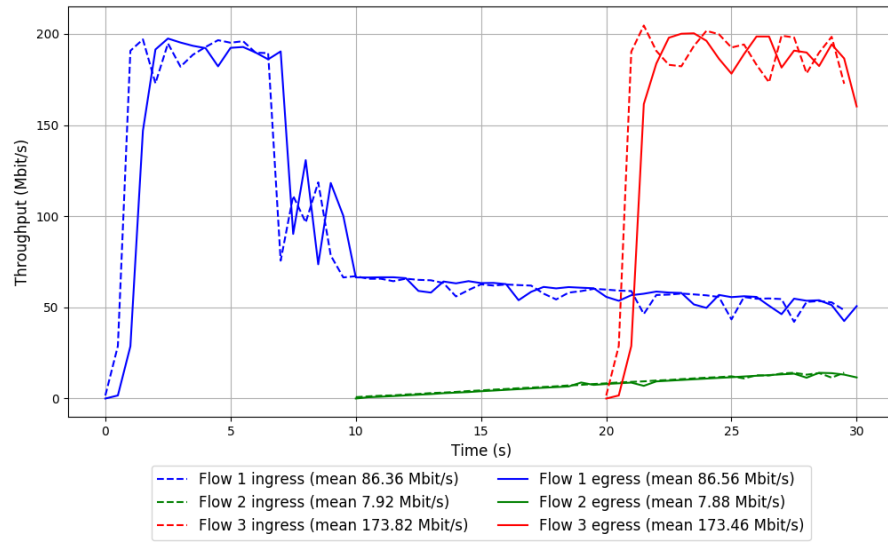


Run 8: Statistics of TCP Vegas

Start at: 2018-05-23 12:49:36
End at: 2018-05-23 12:50:06
Local clock offset: 0.115 ms
Remote clock offset: -0.211 ms

Below is generated by plot.py at 2018-05-23 15:46:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 148.84 Mbit/s
95th percentile per-packet one-way delay: 76.184 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 86.56 Mbit/s
95th percentile per-packet one-way delay: 75.278 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 7.88 Mbit/s
95th percentile per-packet one-way delay: 70.841 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 173.46 Mbit/s
95th percentile per-packet one-way delay: 77.311 ms
Loss rate: 1.43%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-05-23 13:12:07

End at: 2018-05-23 13:12:37

Local clock offset: -0.116 ms

Remote clock offset: 0.132 ms

Below is generated by plot.py at 2018-05-23 15:47:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 201.16 Mbit/s

95th percentile per-packet one-way delay: 78.896 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 175.64 Mbit/s

95th percentile per-packet one-way delay: 79.211 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 9.65 Mbit/s

95th percentile per-packet one-way delay: 74.086 ms

Loss rate: 0.86%

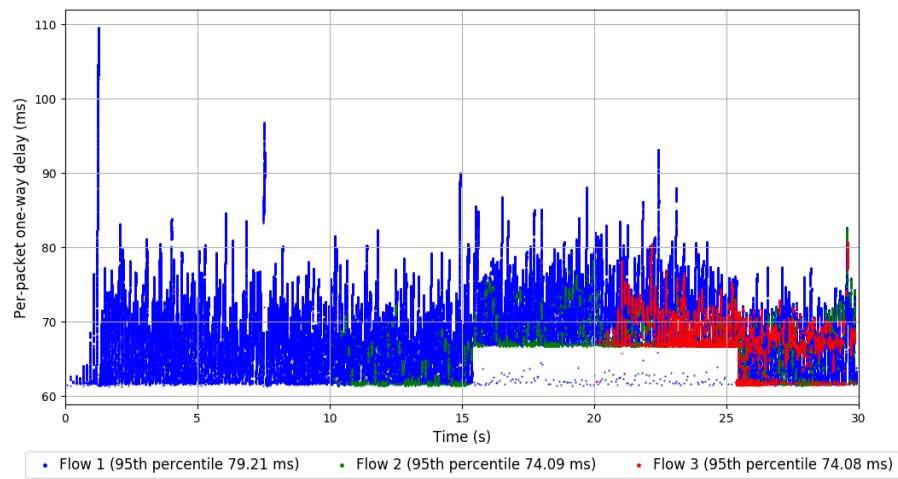
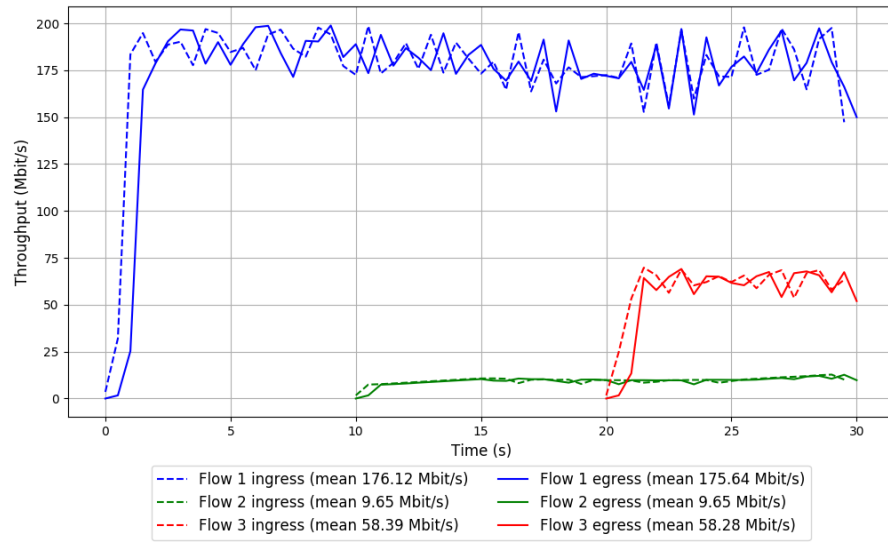
-- Flow 3:

Average throughput: 58.28 Mbit/s

95th percentile per-packet one-way delay: 74.078 ms

Loss rate: 1.49%

Run 9: Report of TCP Vegas — Data Link

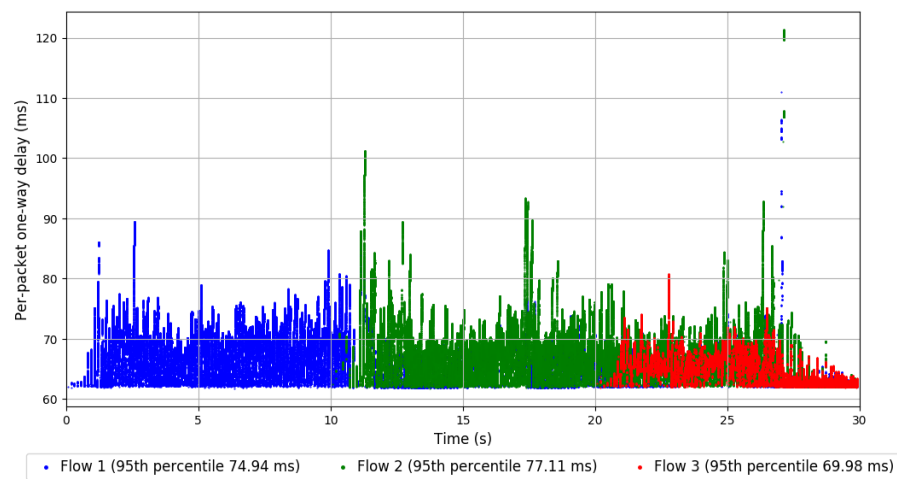
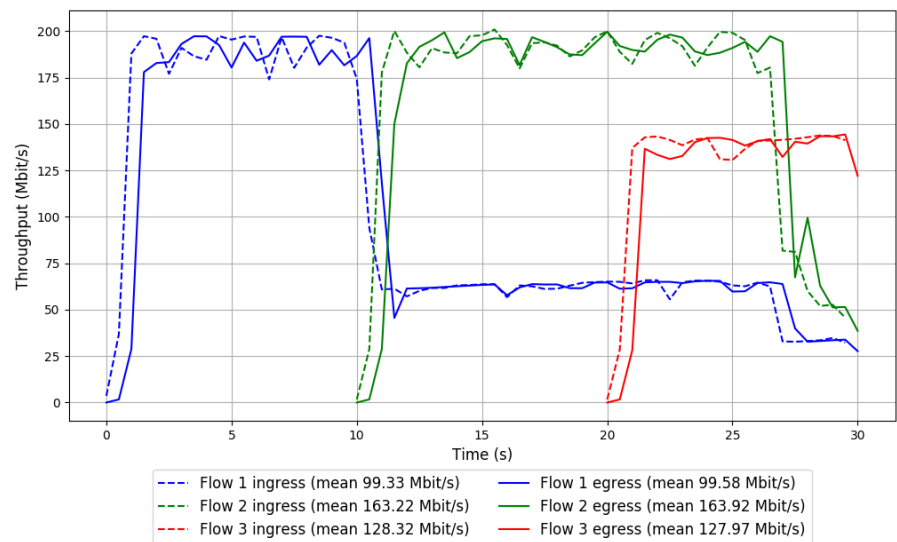


Run 10: Statistics of TCP Vegas

Start at: 2018-05-23 13:34:13
End at: 2018-05-23 13:34:43
Local clock offset: 0.178 ms
Remote clock offset: -0.284 ms

Below is generated by plot.py at 2018-05-23 15:50:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 250.67 Mbit/s
95th percentile per-packet one-way delay: 75.113 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 99.58 Mbit/s
95th percentile per-packet one-way delay: 74.938 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 163.92 Mbit/s
95th percentile per-packet one-way delay: 77.113 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 127.97 Mbit/s
95th percentile per-packet one-way delay: 69.981 ms
Loss rate: 1.41%

Run 10: Report of TCP Vegas — Data Link

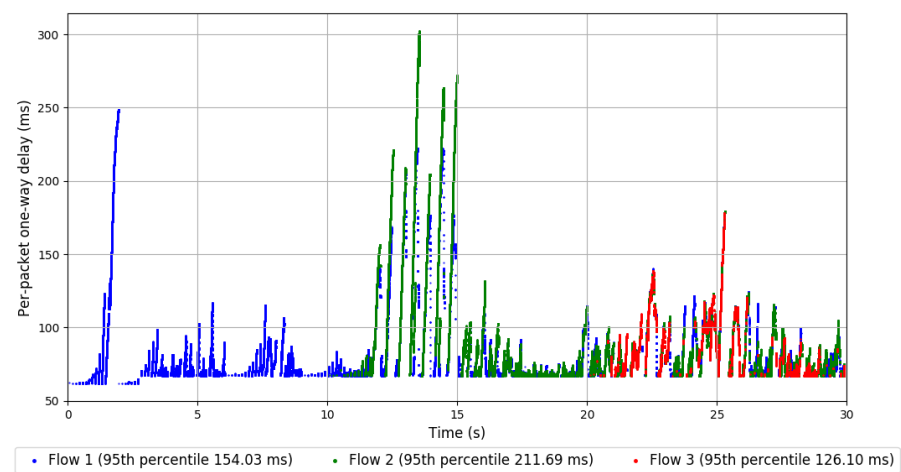
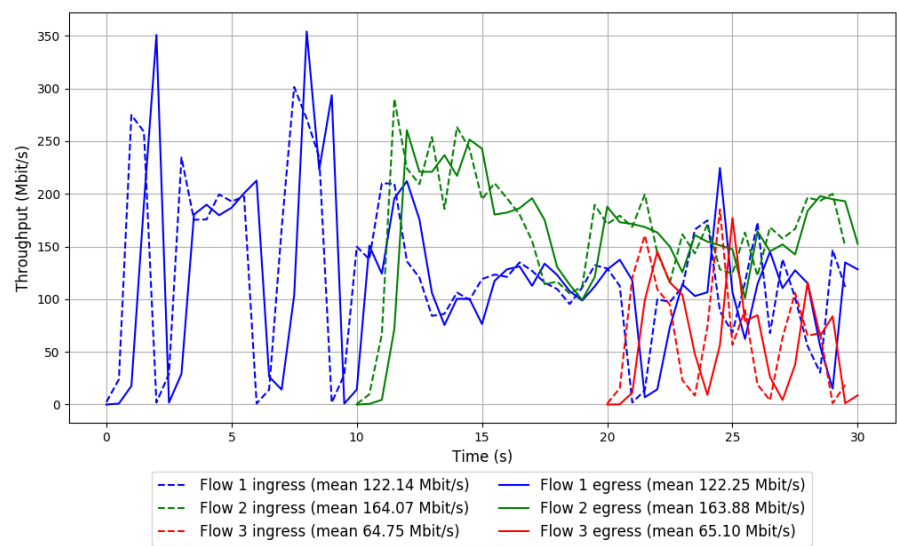


Run 1: Statistics of Verus

Start at: 2018-05-23 10:20:20
End at: 2018-05-23 10:20:50
Local clock offset: -0.188 ms
Remote clock offset: -0.236 ms

Below is generated by plot.py at 2018-05-23 15:50:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 252.38 Mbit/s
95th percentile per-packet one-way delay: 183.237 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 122.25 Mbit/s
95th percentile per-packet one-way delay: 154.033 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 163.88 Mbit/s
95th percentile per-packet one-way delay: 211.688 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 65.10 Mbit/s
95th percentile per-packet one-way delay: 126.104 ms
Loss rate: 0.78%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-05-23 10:42:38

End at: 2018-05-23 10:43:08

Local clock offset: -0.1 ms

Remote clock offset: 0.194 ms

Below is generated by plot.py at 2018-05-23 15:52:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 304.27 Mbit/s

95th percentile per-packet one-way delay: 115.668 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 193.87 Mbit/s

95th percentile per-packet one-way delay: 112.965 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 122.29 Mbit/s

95th percentile per-packet one-way delay: 123.326 ms

Loss rate: 0.71%

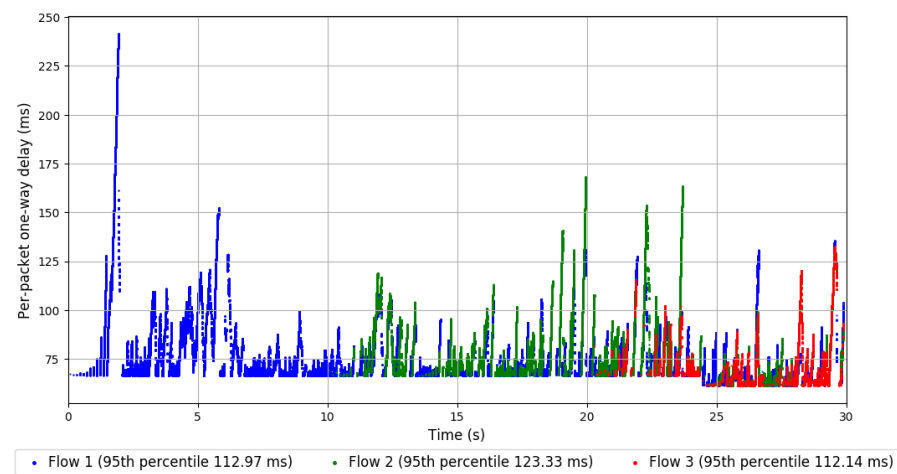
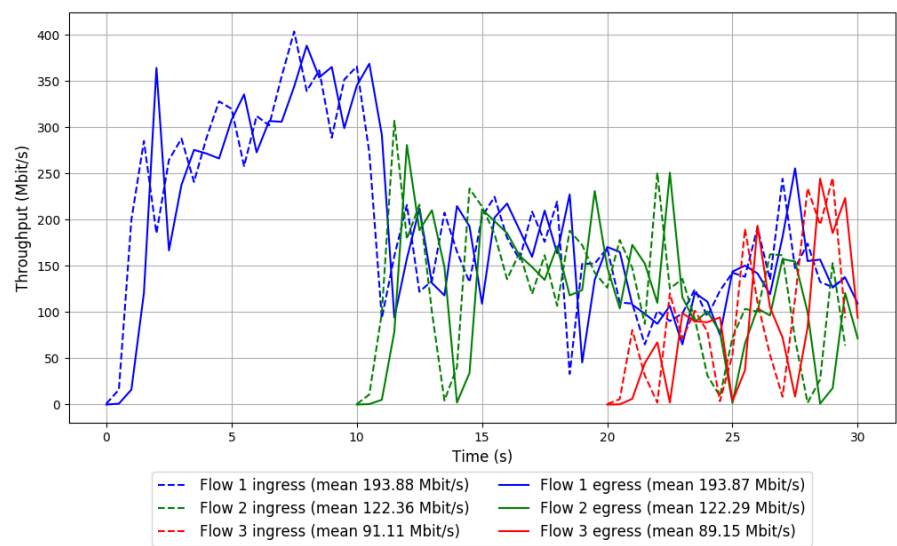
-- Flow 3:

Average throughput: 89.15 Mbit/s

95th percentile per-packet one-way delay: 112.143 ms

Loss rate: 2.87%

Run 2: Report of Verus — Data Link

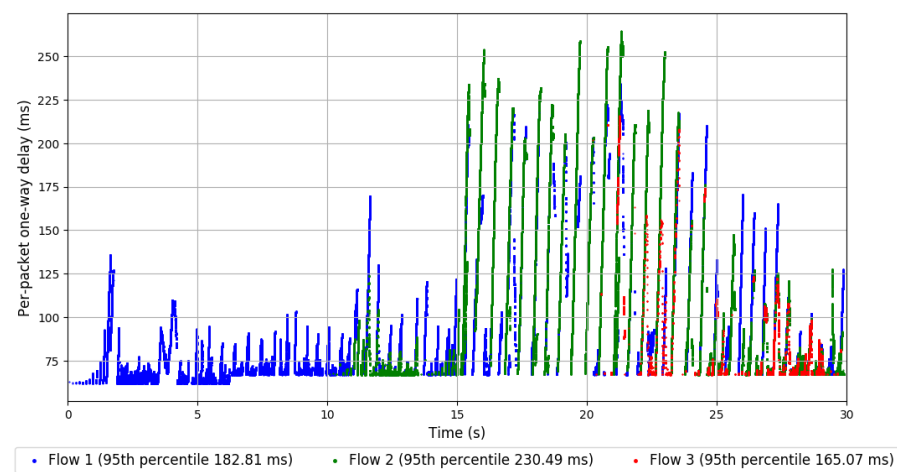
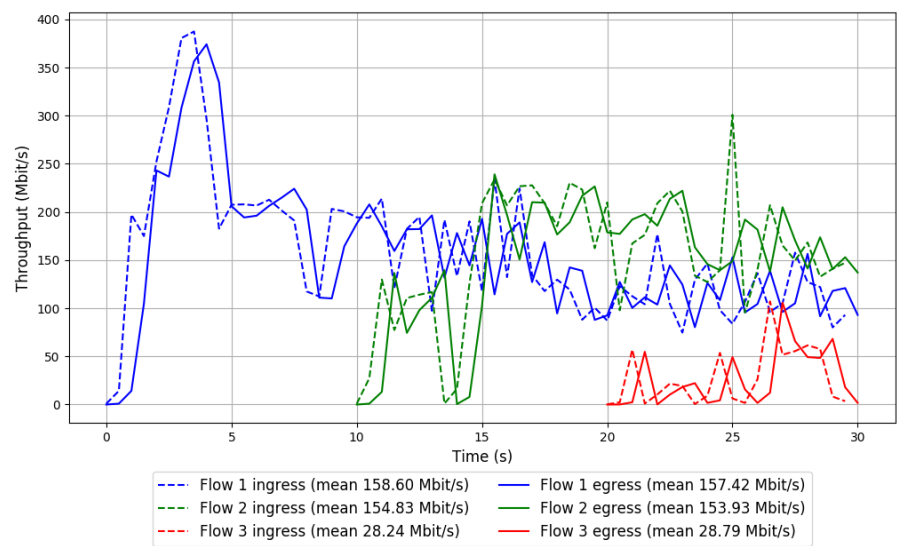


Run 3: Statistics of Verus

Start at: 2018-05-23 11:04:47
End at: 2018-05-23 11:05:17
Local clock offset: 0.002 ms
Remote clock offset: -0.076 ms

Below is generated by plot.py at 2018-05-23 15:52:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 268.82 Mbit/s
95th percentile per-packet one-way delay: 210.886 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 157.42 Mbit/s
95th percentile per-packet one-way delay: 182.807 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 153.93 Mbit/s
95th percentile per-packet one-way delay: 230.494 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 28.79 Mbit/s
95th percentile per-packet one-way delay: 165.075 ms
Loss rate: 0.78%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-05-23 11:27:24

End at: 2018-05-23 11:27:54

Local clock offset: -0.176 ms

Remote clock offset: 0.113 ms

Below is generated by plot.py at 2018-05-23 15:53:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 281.56 Mbit/s

95th percentile per-packet one-way delay: 118.750 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 167.10 Mbit/s

95th percentile per-packet one-way delay: 142.720 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 132.14 Mbit/s

95th percentile per-packet one-way delay: 112.355 ms

Loss rate: 1.06%

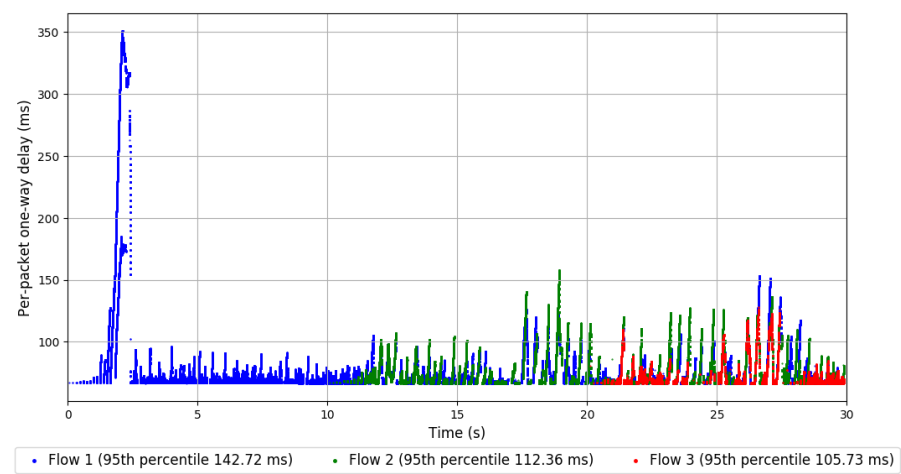
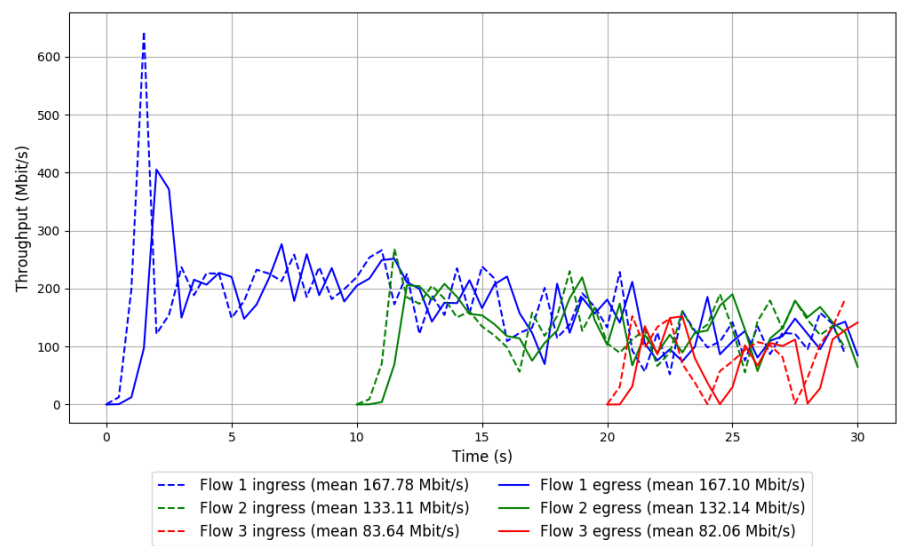
-- Flow 3:

Average throughput: 82.06 Mbit/s

95th percentile per-packet one-way delay: 105.731 ms

Loss rate: 3.34%

Run 4: Report of Verus — Data Link

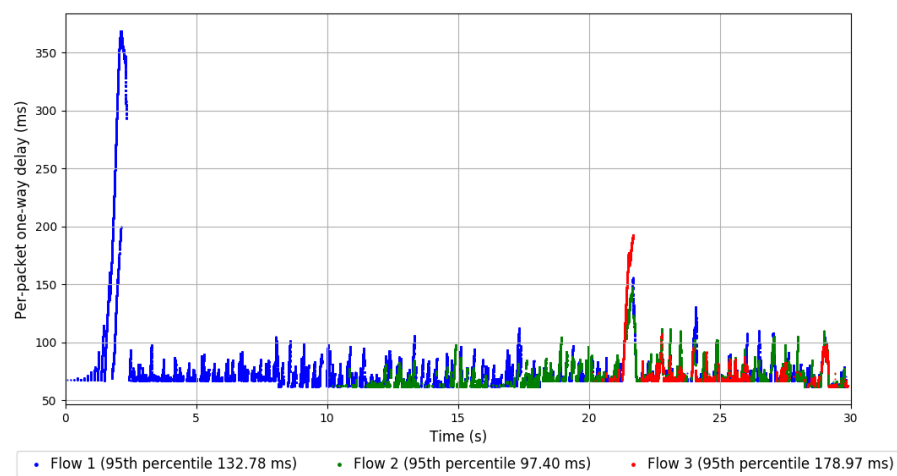
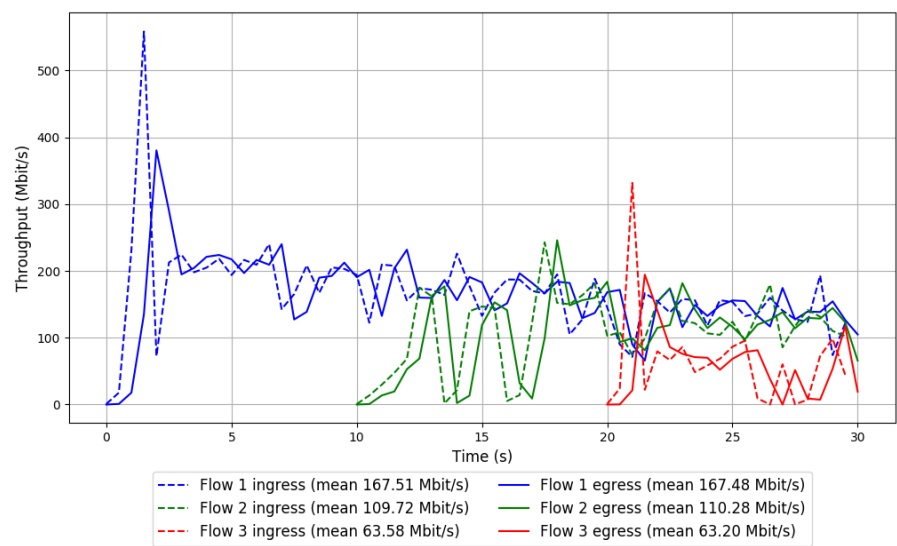


Run 5: Statistics of Verus

Start at: 2018-05-23 11:49:45
End at: 2018-05-23 11:50:15
Local clock offset: -0.21 ms
Remote clock offset: -0.313 ms

Below is generated by plot.py at 2018-05-23 15:53:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 260.66 Mbit/s
95th percentile per-packet one-way delay: 127.282 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 167.48 Mbit/s
95th percentile per-packet one-way delay: 132.785 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 110.28 Mbit/s
95th percentile per-packet one-way delay: 97.398 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 63.20 Mbit/s
95th percentile per-packet one-way delay: 178.966 ms
Loss rate: 2.02%

Run 5: Report of Verus — Data Link

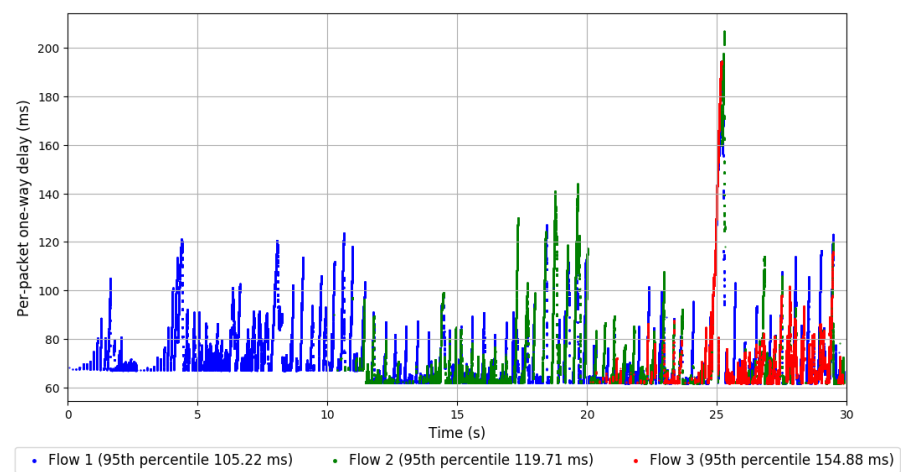
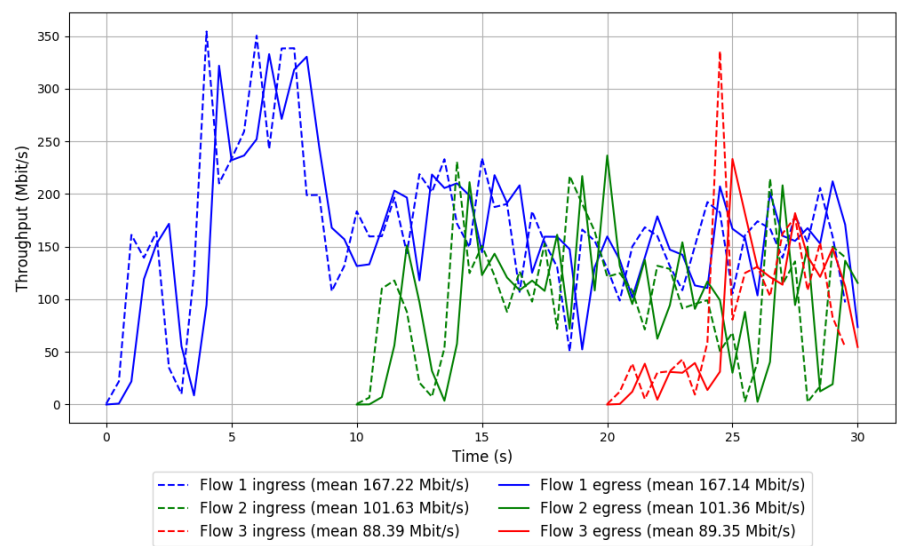


Run 6: Statistics of Verus

Start at: 2018-05-23 12:11:51
End at: 2018-05-23 12:12:21
Local clock offset: -0.236 ms
Remote clock offset: -0.26 ms

Below is generated by plot.py at 2018-05-23 15:53:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 263.62 Mbit/s
95th percentile per-packet one-way delay: 111.848 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 167.14 Mbit/s
95th percentile per-packet one-way delay: 105.220 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 101.36 Mbit/s
95th percentile per-packet one-way delay: 119.713 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 89.35 Mbit/s
95th percentile per-packet one-way delay: 154.884 ms
Loss rate: 0.23%

Run 6: Report of Verus — Data Link

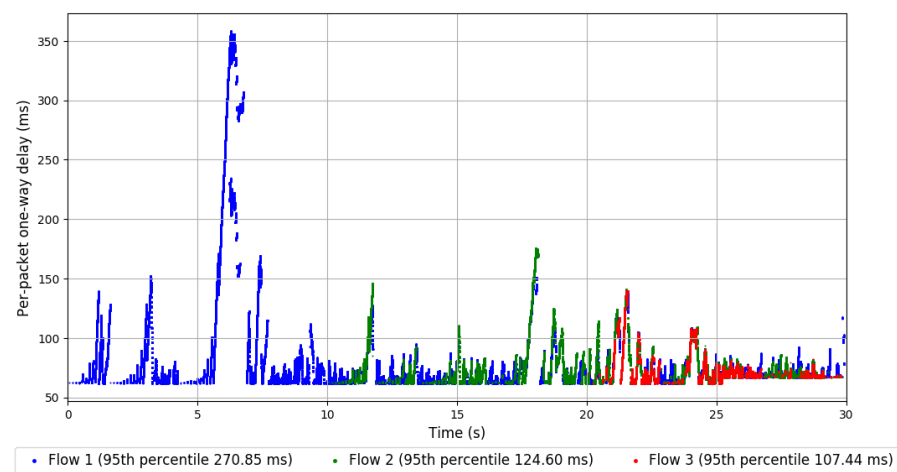
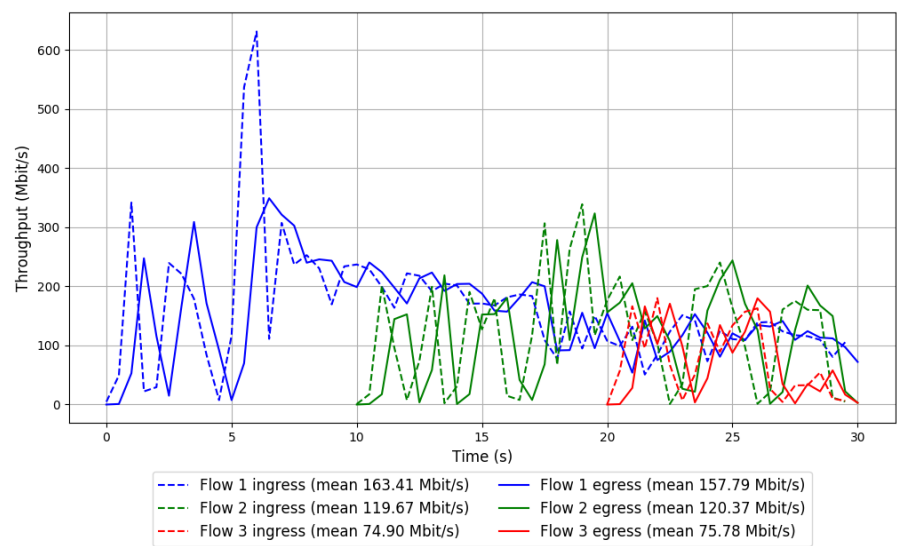


Run 7: Statistics of Verus

Start at: 2018-05-23 12:34:18
End at: 2018-05-23 12:34:48
Local clock offset: -0.006 ms
Remote clock offset: -0.228 ms

Below is generated by plot.py at 2018-05-23 15:54:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 262.00 Mbit/s
95th percentile per-packet one-way delay: 161.014 ms
Loss rate: 2.21%
-- Flow 1:
Average throughput: 157.79 Mbit/s
95th percentile per-packet one-way delay: 270.852 ms
Loss rate: 3.55%
-- Flow 2:
Average throughput: 120.37 Mbit/s
95th percentile per-packet one-way delay: 124.599 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 75.78 Mbit/s
95th percentile per-packet one-way delay: 107.441 ms
Loss rate: 0.25%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-05-23 12:56:43

End at: 2018-05-23 12:57:13

Local clock offset: -0.022 ms

Remote clock offset: 0.308 ms

Below is generated by plot.py at 2018-05-23 15:56:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 279.42 Mbit/s

95th percentile per-packet one-way delay: 216.069 ms

Loss rate: 1.55%

-- Flow 1:

Average throughput: 146.00 Mbit/s

95th percentile per-packet one-way delay: 162.783 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 169.14 Mbit/s

95th percentile per-packet one-way delay: 261.144 ms

Loss rate: 1.93%

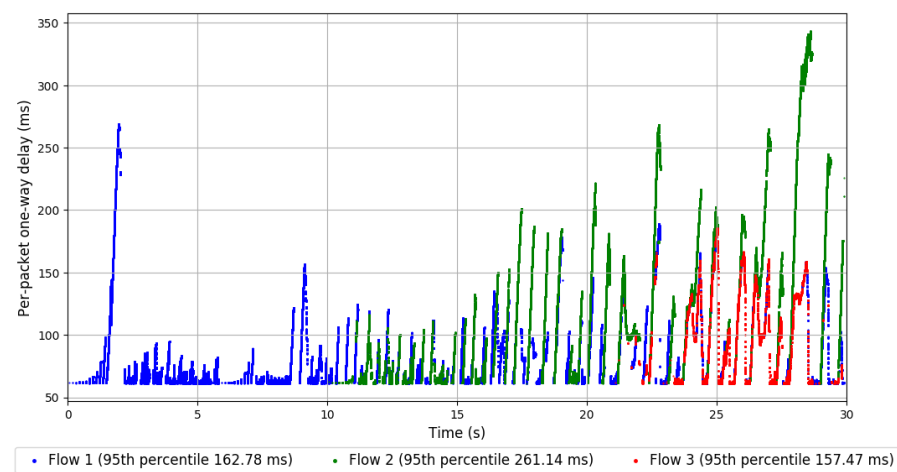
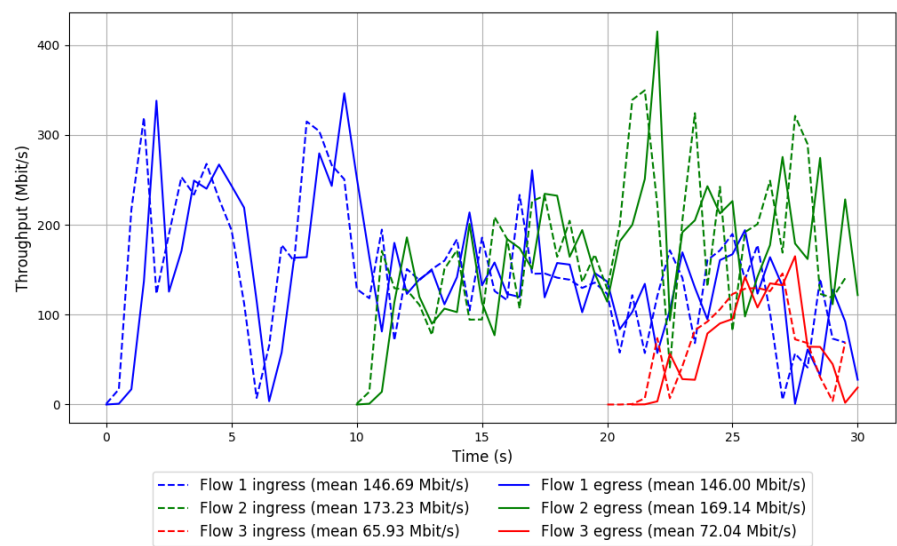
-- Flow 3:

Average throughput: 72.04 Mbit/s

95th percentile per-packet one-way delay: 157.471 ms

Loss rate: 4.00%

Run 8: Report of Verus — Data Link

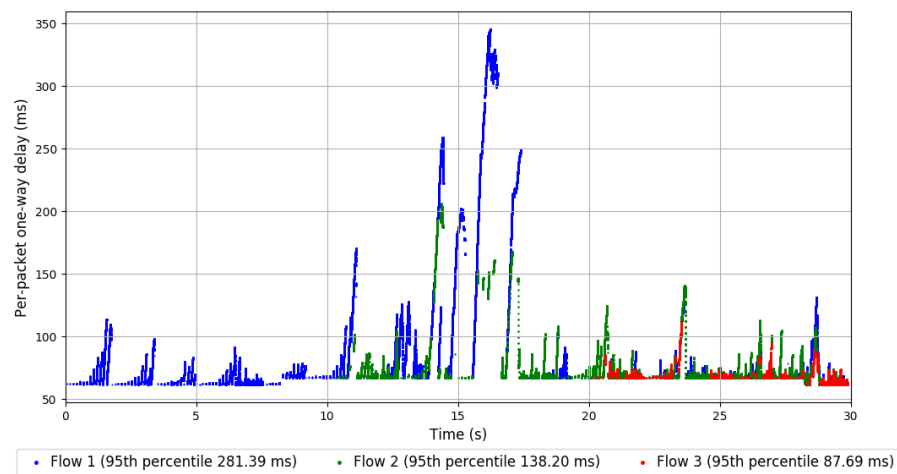
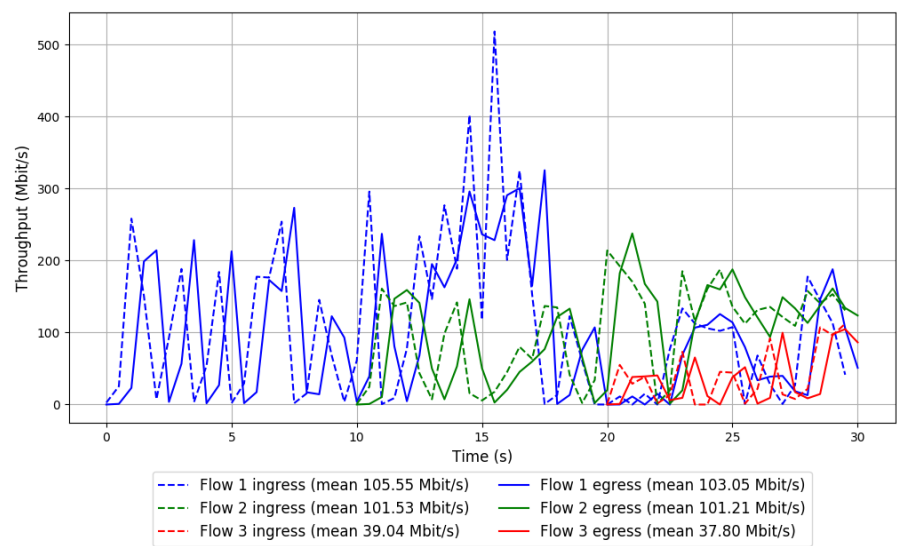


Run 9: Statistics of Verus

Start at: 2018-05-23 13:19:15
End at: 2018-05-23 13:19:45
Local clock offset: -0.105 ms
Remote clock offset: -0.185 ms

Below is generated by plot.py at 2018-05-23 15:56:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 182.57 Mbit/s
95th percentile per-packet one-way delay: 242.237 ms
Loss rate: 2.25%
-- Flow 1:
Average throughput: 103.05 Mbit/s
95th percentile per-packet one-way delay: 281.387 ms
Loss rate: 2.78%
-- Flow 2:
Average throughput: 101.21 Mbit/s
95th percentile per-packet one-way delay: 138.197 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 37.80 Mbit/s
95th percentile per-packet one-way delay: 87.689 ms
Loss rate: 4.48%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-05-23 13:41:17

End at: 2018-05-23 13:41:47

Local clock offset: 0.282 ms

Remote clock offset: 0.064 ms

Below is generated by plot.py at 2018-05-23 15:57:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 269.94 Mbit/s

95th percentile per-packet one-way delay: 128.092 ms

Loss rate: 1.98%

-- Flow 1:

Average throughput: 155.50 Mbit/s

95th percentile per-packet one-way delay: 154.636 ms

Loss rate: 3.12%

-- Flow 2:

Average throughput: 128.38 Mbit/s

95th percentile per-packet one-way delay: 106.223 ms

Loss rate: 0.04%

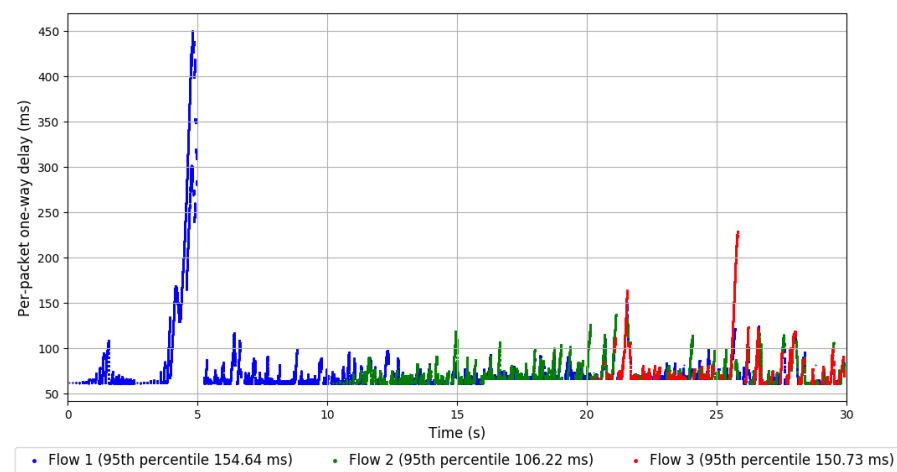
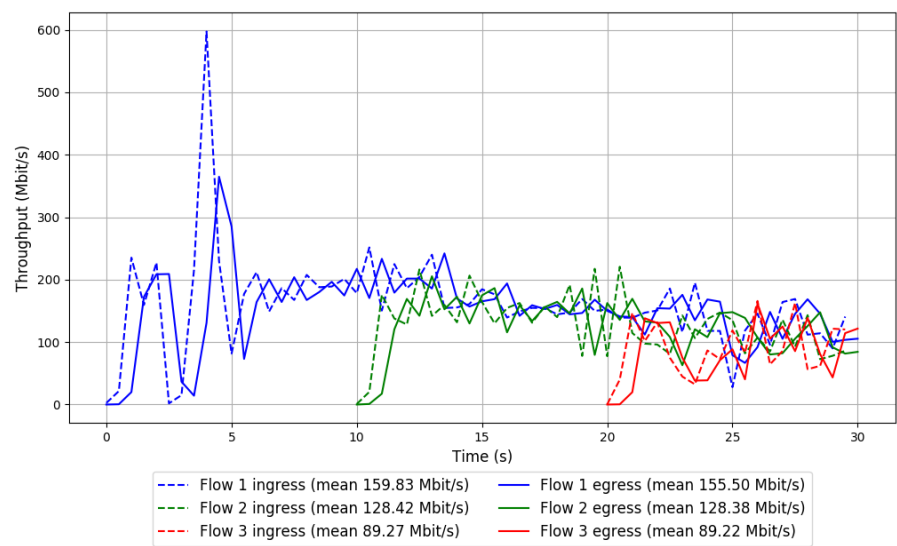
-- Flow 3:

Average throughput: 89.22 Mbit/s

95th percentile per-packet one-way delay: 150.729 ms

Loss rate: 1.37%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-05-23 10:29:19

End at: 2018-05-23 10:29:49

Local clock offset: -0.243 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2018-05-23 16:00:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 371.66 Mbit/s

95th percentile per-packet one-way delay: 70.192 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 228.41 Mbit/s

95th percentile per-packet one-way delay: 69.857 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 209.32 Mbit/s

95th percentile per-packet one-way delay: 70.741 ms

Loss rate: 0.93%

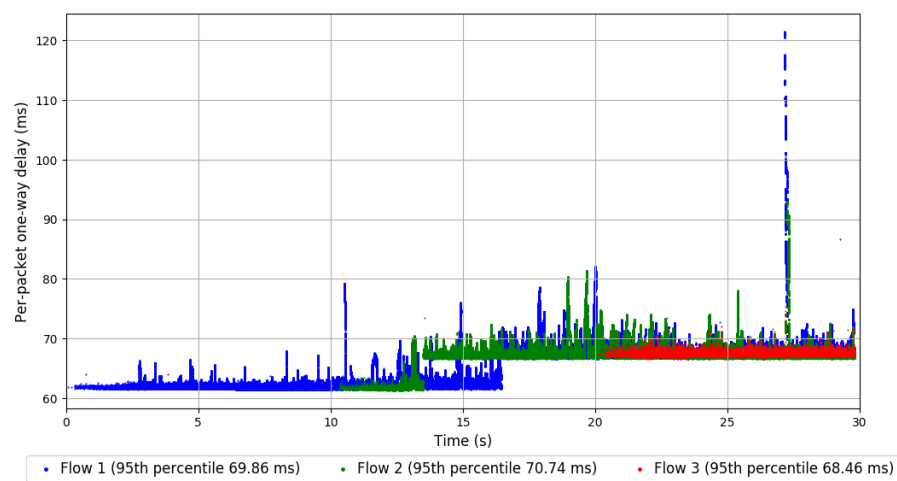
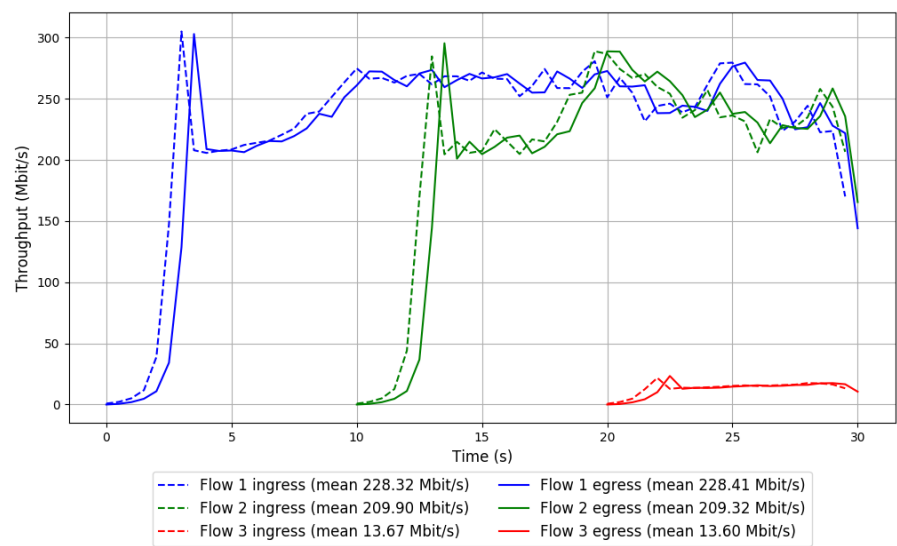
-- Flow 3:

Average throughput: 13.60 Mbit/s

95th percentile per-packet one-way delay: 68.458 ms

Loss rate: 1.83%

Run 1: Report of PCC-Vivace — Data Link

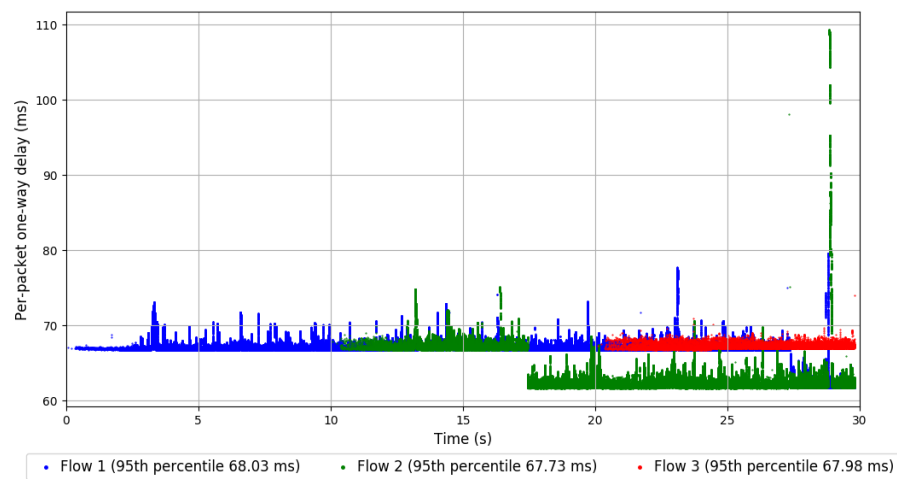
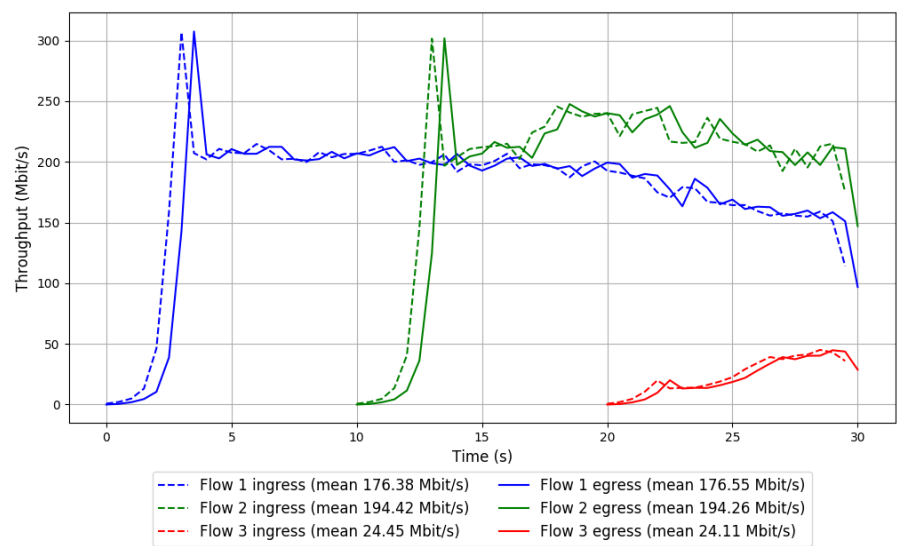


Run 2: Statistics of PCC-Vivace

Start at: 2018-05-23 10:51:38
End at: 2018-05-23 10:52:08
Local clock offset: -0.045 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-05-23 16:00:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 313.16 Mbit/s
95th percentile per-packet one-way delay: 67.920 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 176.55 Mbit/s
95th percentile per-packet one-way delay: 68.027 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 194.26 Mbit/s
95th percentile per-packet one-way delay: 67.730 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 24.11 Mbit/s
95th percentile per-packet one-way delay: 67.980 ms
Loss rate: 2.67%

Run 2: Report of PCC-Vivace — Data Link

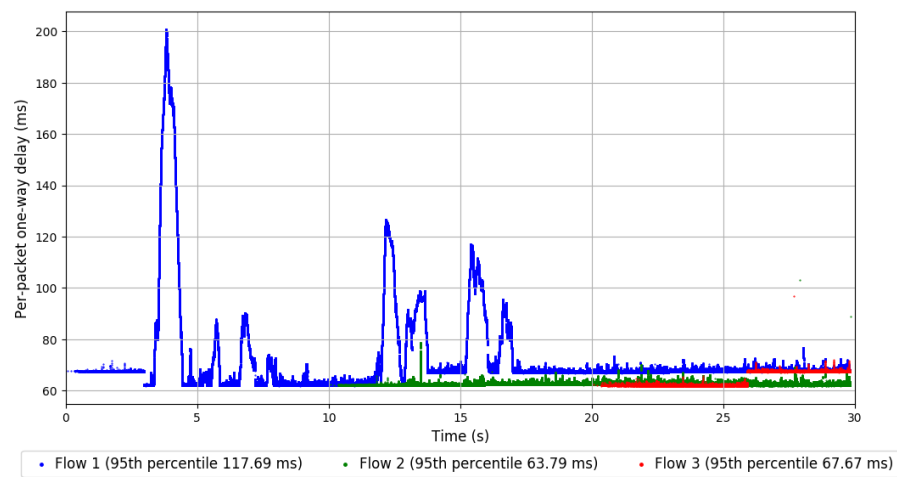
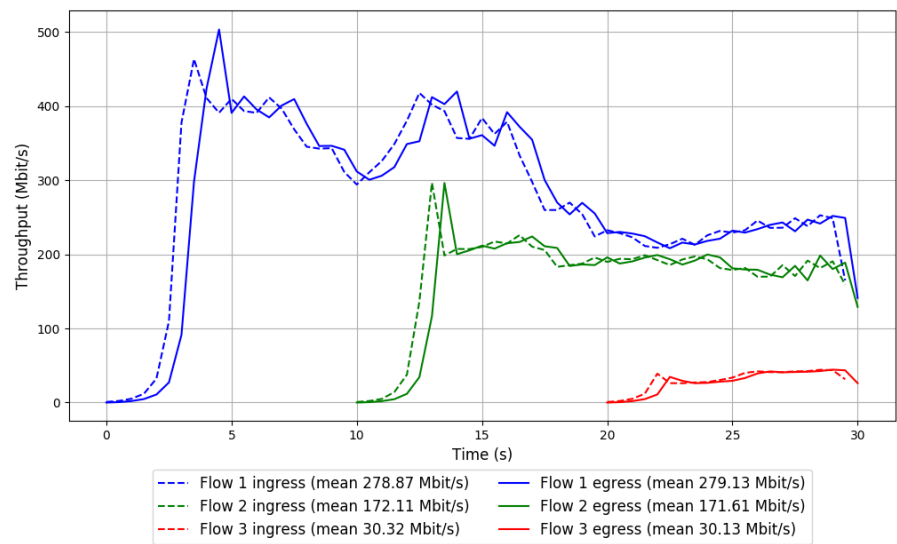


Run 3: Statistics of PCC-Vivace

Start at: 2018-05-23 11:14:10
End at: 2018-05-23 11:14:40
Local clock offset: -0.09 ms
Remote clock offset: -0.244 ms

Below is generated by plot.py at 2018-05-23 16:02:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 402.64 Mbit/s
95th percentile per-packet one-way delay: 104.774 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 279.13 Mbit/s
95th percentile per-packet one-way delay: 117.687 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 171.61 Mbit/s
95th percentile per-packet one-way delay: 63.786 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 30.13 Mbit/s
95th percentile per-packet one-way delay: 67.675 ms
Loss rate: 1.90%

Run 3: Report of PCC-Vivace — Data Link

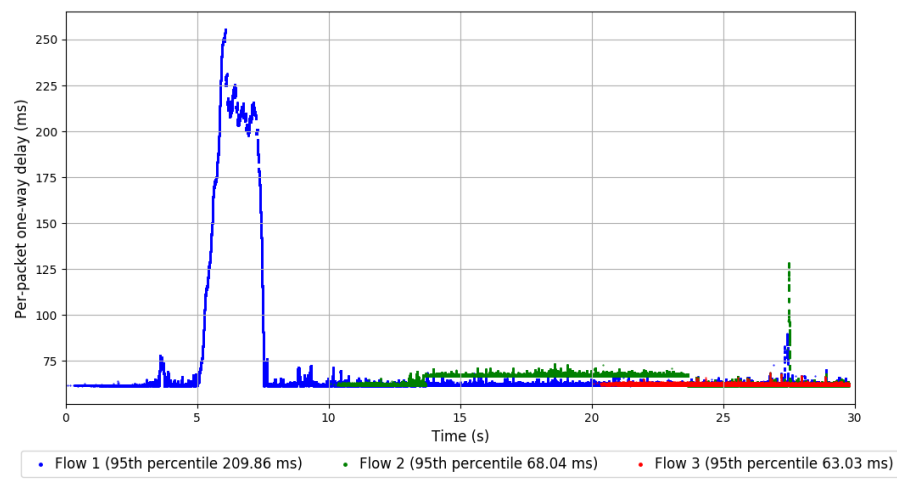
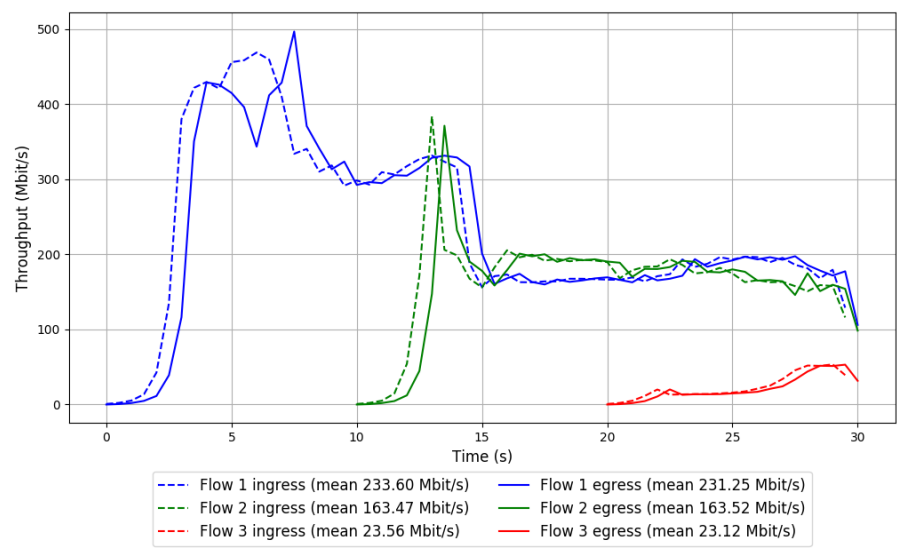


Run 4: Statistics of PCC-Vivace

Start at: 2018-05-23 11:36:42
End at: 2018-05-23 11:37:12
Local clock offset: -0.145 ms
Remote clock offset: -0.086 ms

Below is generated by plot.py at 2018-05-23 16:02:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 347.32 Mbit/s
95th percentile per-packet one-way delay: 203.229 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 231.25 Mbit/s
95th percentile per-packet one-way delay: 209.858 ms
Loss rate: 1.42%
-- Flow 2:
Average throughput: 163.52 Mbit/s
95th percentile per-packet one-way delay: 68.039 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 23.12 Mbit/s
95th percentile per-packet one-way delay: 63.030 ms
Loss rate: 3.14%

Run 4: Report of PCC-Vivace — Data Link

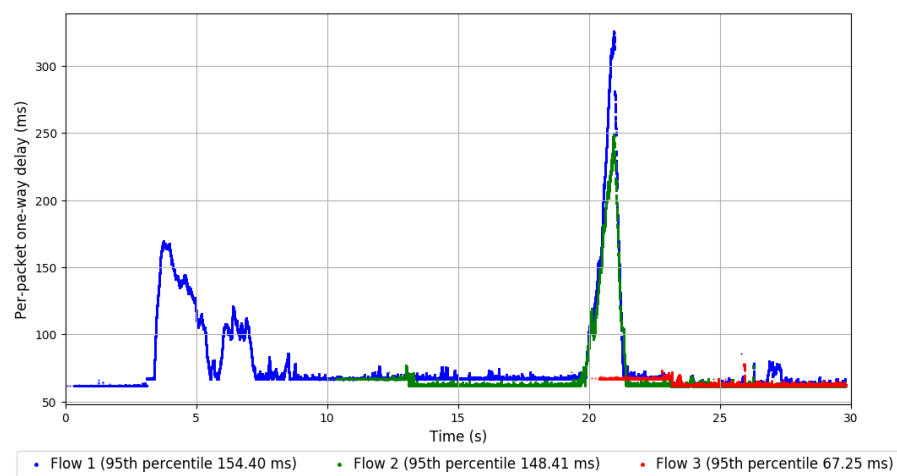
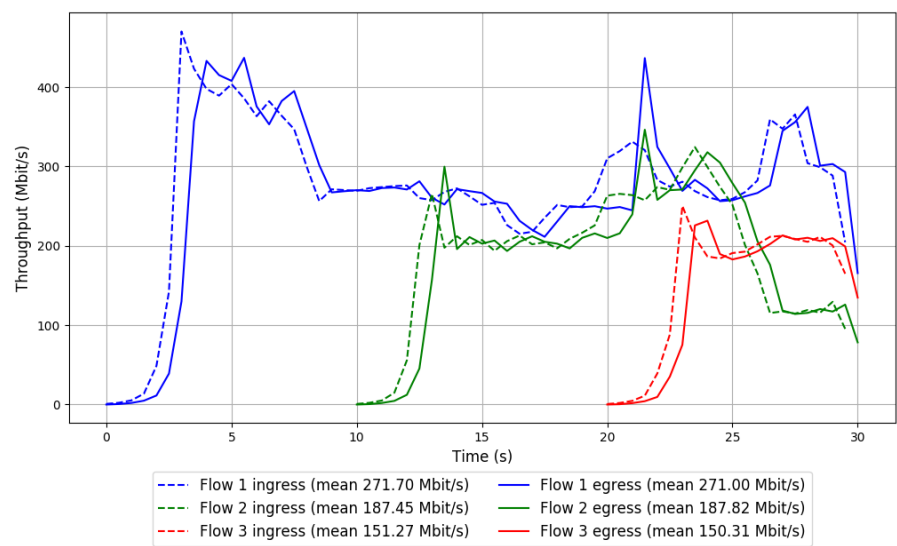


Run 5: Statistics of PCC-Vivace

Start at: 2018-05-23 11:58:53
End at: 2018-05-23 11:59:23
Local clock offset: -0.181 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2018-05-23 16:04:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 444.67 Mbit/s
95th percentile per-packet one-way delay: 148.229 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 271.00 Mbit/s
95th percentile per-packet one-way delay: 154.400 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 187.82 Mbit/s
95th percentile per-packet one-way delay: 148.411 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 150.31 Mbit/s
95th percentile per-packet one-way delay: 67.247 ms
Loss rate: 1.94%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-05-23 12:20:57

End at: 2018-05-23 12:21:27

Local clock offset: -0.169 ms

Remote clock offset: 0.124 ms

Below is generated by plot.py at 2018-05-23 16:04:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 373.27 Mbit/s

95th percentile per-packet one-way delay: 68.429 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 217.62 Mbit/s

95th percentile per-packet one-way delay: 64.906 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 159.92 Mbit/s

95th percentile per-packet one-way delay: 69.315 ms

Loss rate: 0.68%

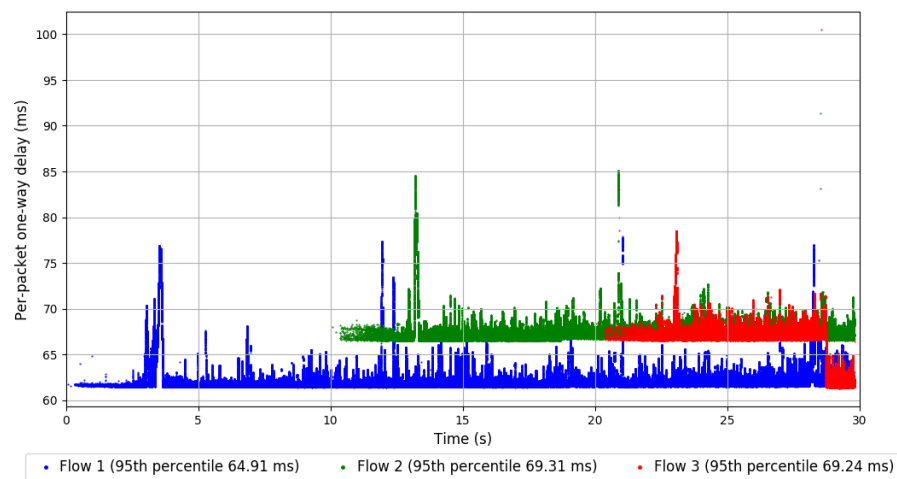
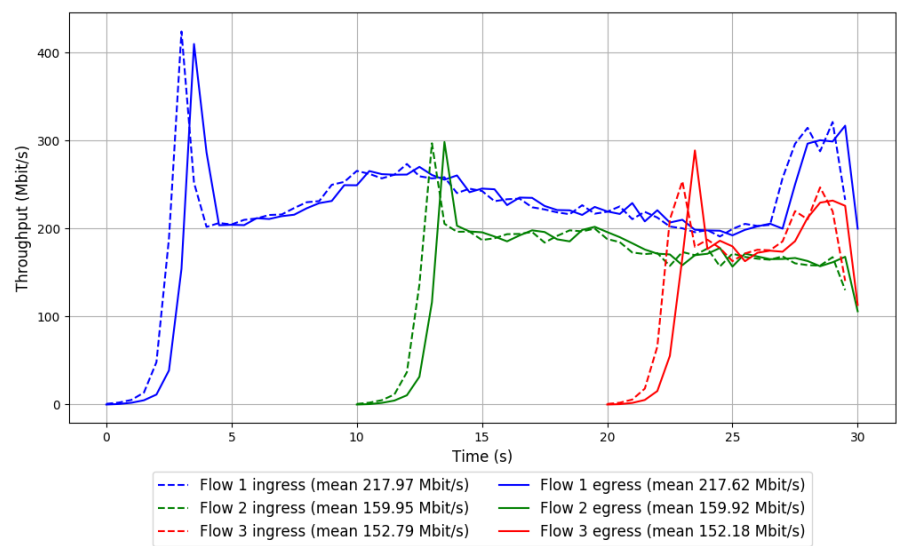
-- Flow 3:

Average throughput: 152.18 Mbit/s

95th percentile per-packet one-way delay: 69.243 ms

Loss rate: 1.68%

Run 6: Report of PCC-Vivace — Data Link

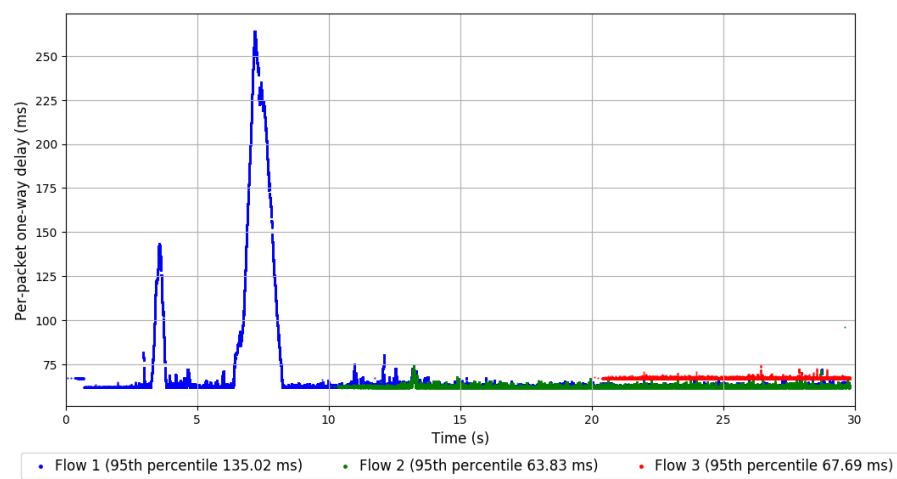
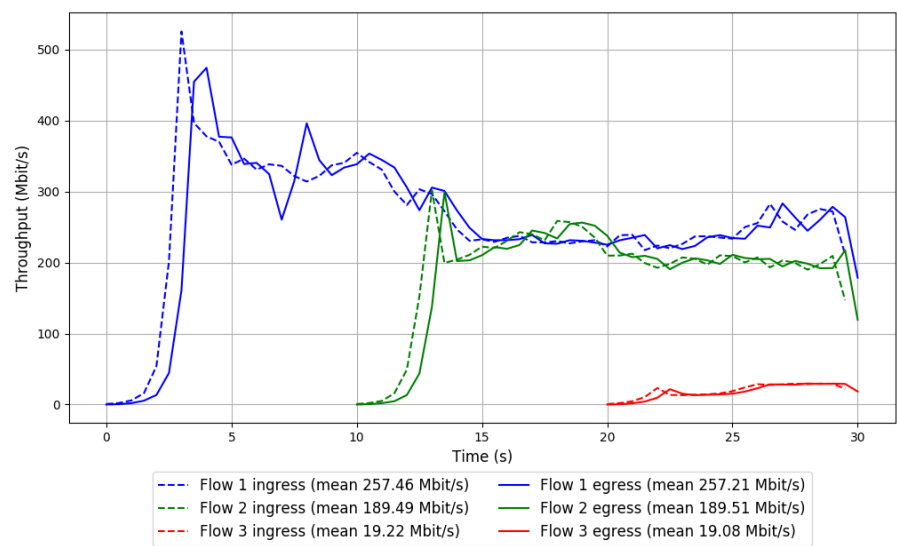


Run 7: Statistics of PCC-Vivace

Start at: 2018-05-23 12:43:22
End at: 2018-05-23 12:43:52
Local clock offset: -0.006 ms
Remote clock offset: -0.167 ms

Below is generated by plot.py at 2018-05-23 16:04:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 389.10 Mbit/s
95th percentile per-packet one-way delay: 101.513 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 257.21 Mbit/s
95th percentile per-packet one-way delay: 135.023 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 189.51 Mbit/s
95th percentile per-packet one-way delay: 63.827 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 19.08 Mbit/s
95th percentile per-packet one-way delay: 67.693 ms
Loss rate: 2.03%

Run 7: Report of PCC-Vivace — Data Link

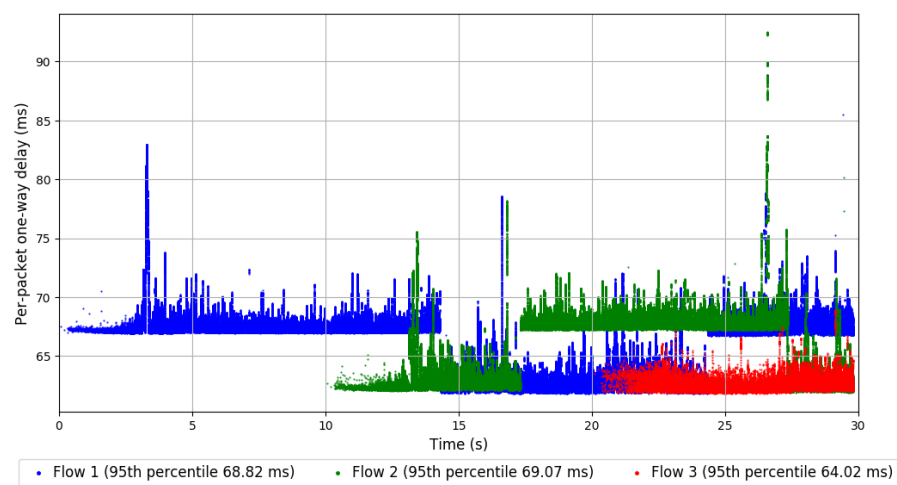
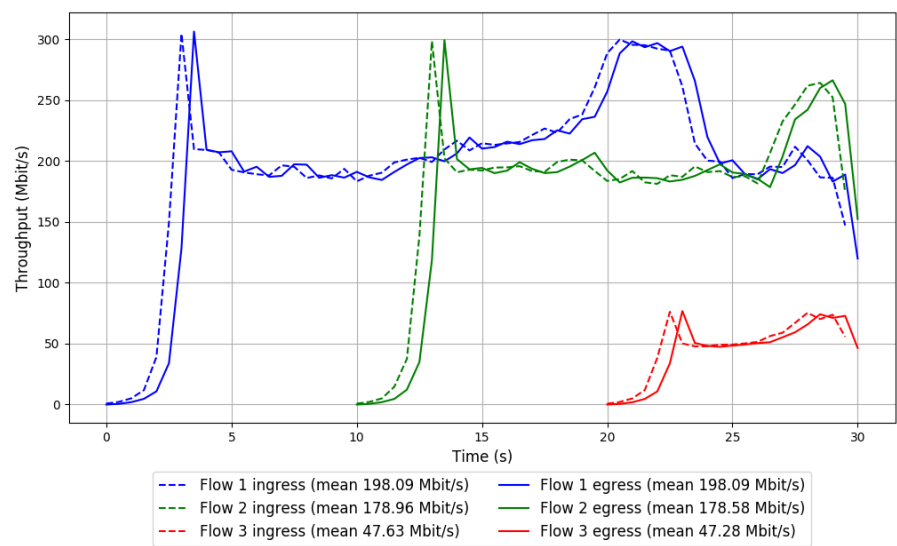


Run 8: Statistics of PCC-Vivace

Start at: 2018-05-23 13:05:58
End at: 2018-05-23 13:06:28
Local clock offset: 0.04 ms
Remote clock offset: -0.209 ms

Below is generated by plot.py at 2018-05-23 16:05:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 332.06 Mbit/s
95th percentile per-packet one-way delay: 68.889 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 198.09 Mbit/s
95th percentile per-packet one-way delay: 68.818 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 178.58 Mbit/s
95th percentile per-packet one-way delay: 69.073 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 47.28 Mbit/s
95th percentile per-packet one-way delay: 64.020 ms
Loss rate: 2.01%

Run 8: Report of PCC-Vivace — Data Link

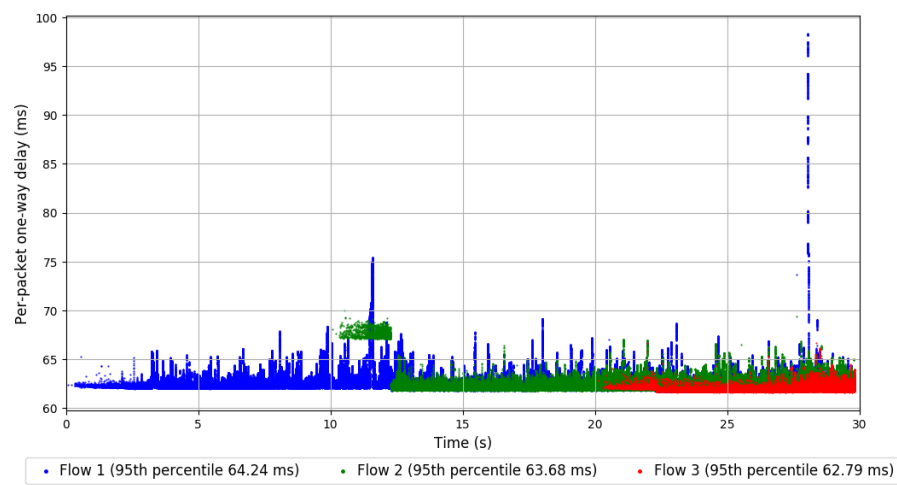
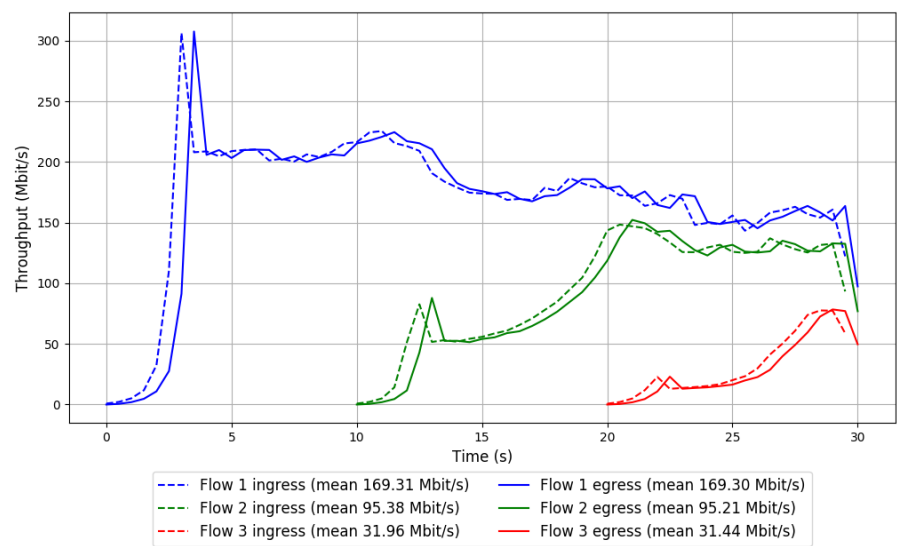


Run 9: Statistics of PCC-Vivace

Start at: 2018-05-23 13:28:13
End at: 2018-05-23 13:28:43
Local clock offset: -0.032 ms
Remote clock offset: -0.399 ms

Below is generated by plot.py at 2018-05-23 16:05:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 242.73 Mbit/s
95th percentile per-packet one-way delay: 64.021 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 169.30 Mbit/s
95th percentile per-packet one-way delay: 64.236 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 95.21 Mbit/s
95th percentile per-packet one-way delay: 63.678 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 31.44 Mbit/s
95th percentile per-packet one-way delay: 62.792 ms
Loss rate: 2.89%

Run 9: Report of PCC-Vivace — Data Link

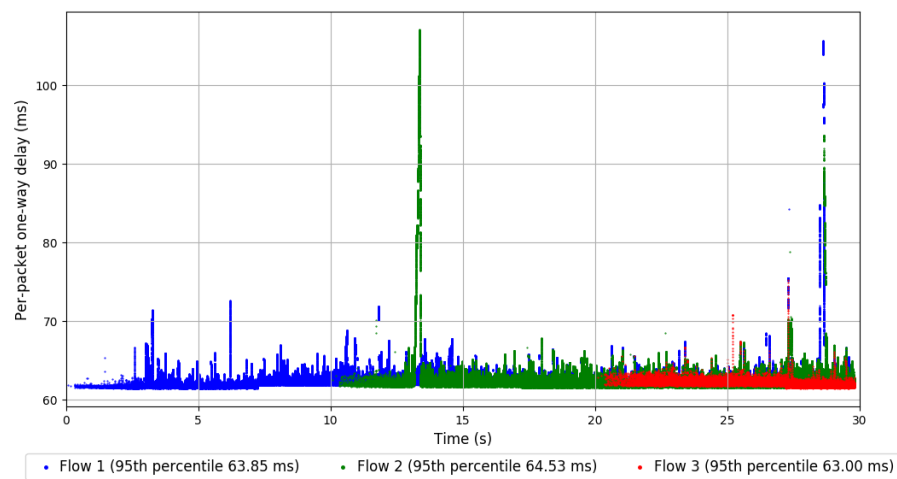
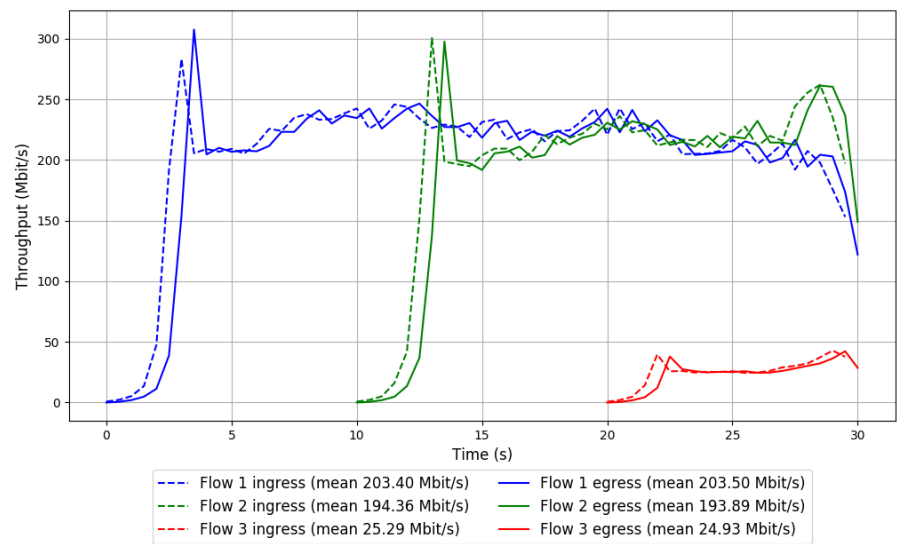


Run 10: Statistics of PCC-Vivace

Start at: 2018-05-23 13:50:39
End at: 2018-05-23 13:51:09
Local clock offset: 0.261 ms
Remote clock offset: -0.007 ms

Below is generated by plot.py at 2018-05-23 16:05:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 340.25 Mbit/s
95th percentile per-packet one-way delay: 64.109 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 203.50 Mbit/s
95th percentile per-packet one-way delay: 63.848 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 193.89 Mbit/s
95th percentile per-packet one-way delay: 64.528 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 24.93 Mbit/s
95th percentile per-packet one-way delay: 62.997 ms
Loss rate: 2.94%

Run 10: Report of PCC-Vivace — Data Link

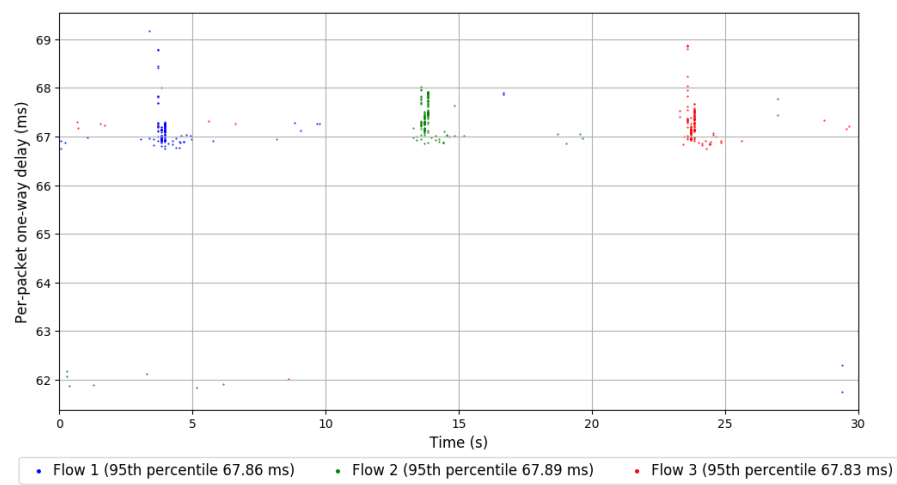
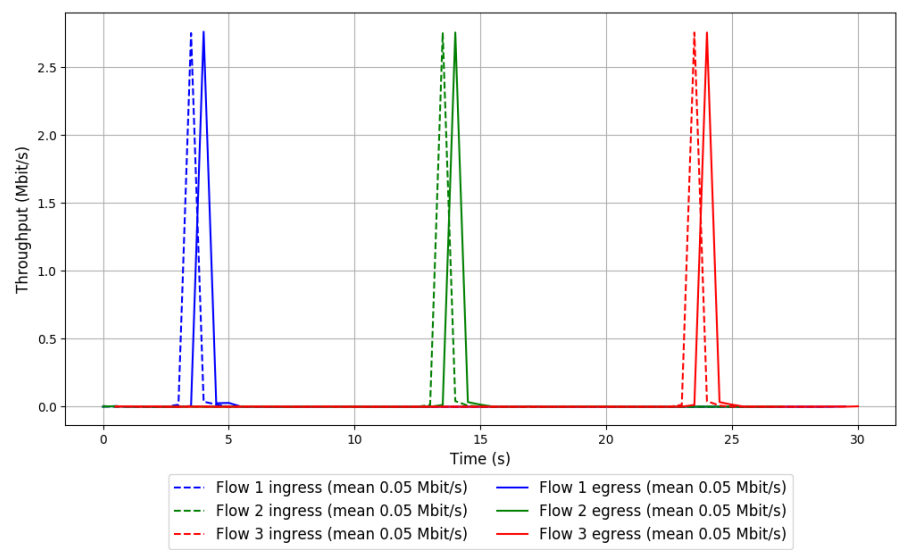


```
Run 1: Statistics of WebRTC media

Start at: 2018-05-23 10:19:11
End at: 2018-05-23 10:19:41
Local clock offset: -0.241 ms
Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2018-05-23 16:05:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 67.893 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 67.865 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 67.893 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 67.829 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

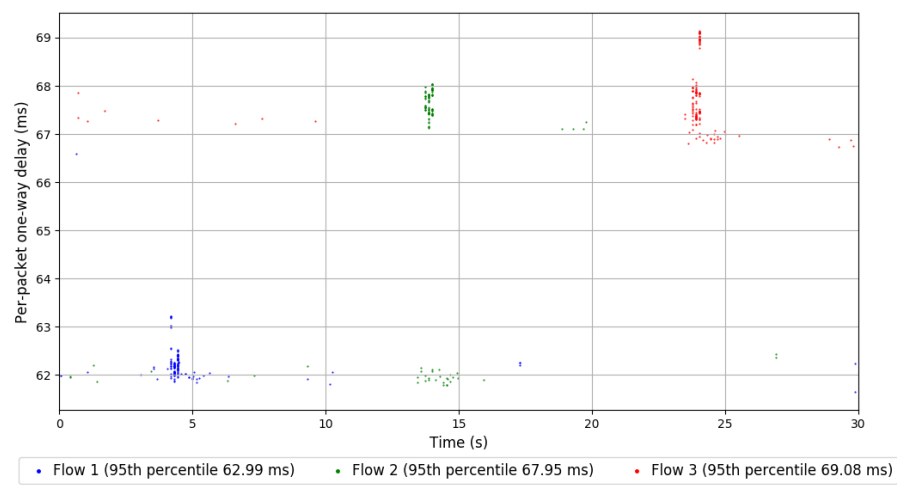
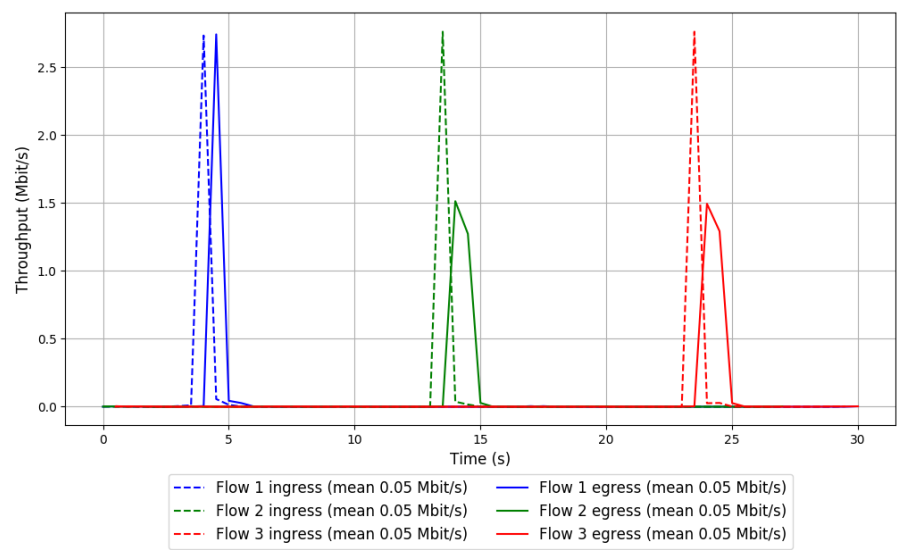


Run 2: Statistics of WebRTC media

Start at: 2018-05-23 10:41:29
End at: 2018-05-23 10:41:59
Local clock offset: -0.096 ms
Remote clock offset: -0.162 ms

Below is generated by plot.py at 2018-05-23 16:05:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 68.923 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 62.991 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 67.951 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 69.081 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-05-23 11:03:38

End at: 2018-05-23 11:04:08

Local clock offset: -0.03 ms

Remote clock offset: 0.168 ms

Below is generated by plot.py at 2018-05-23 16:05:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 67.408 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 67.464 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 66.743 ms

Loss rate: 0.00%

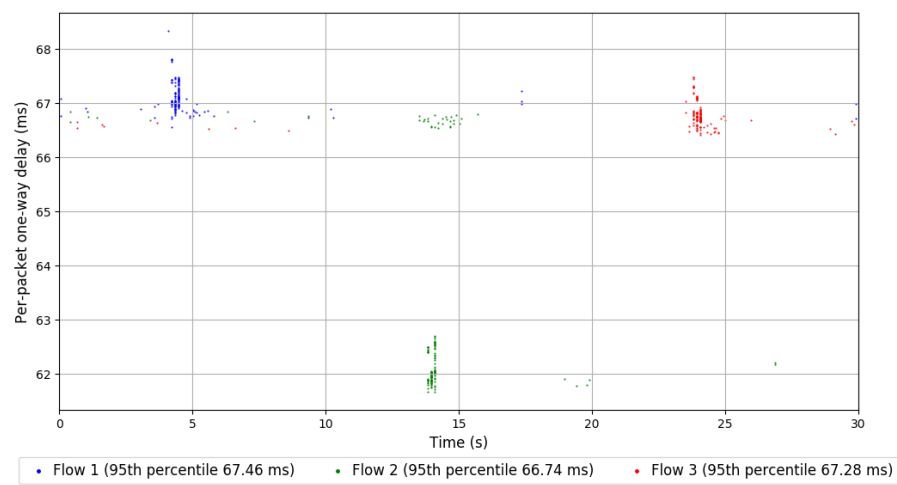
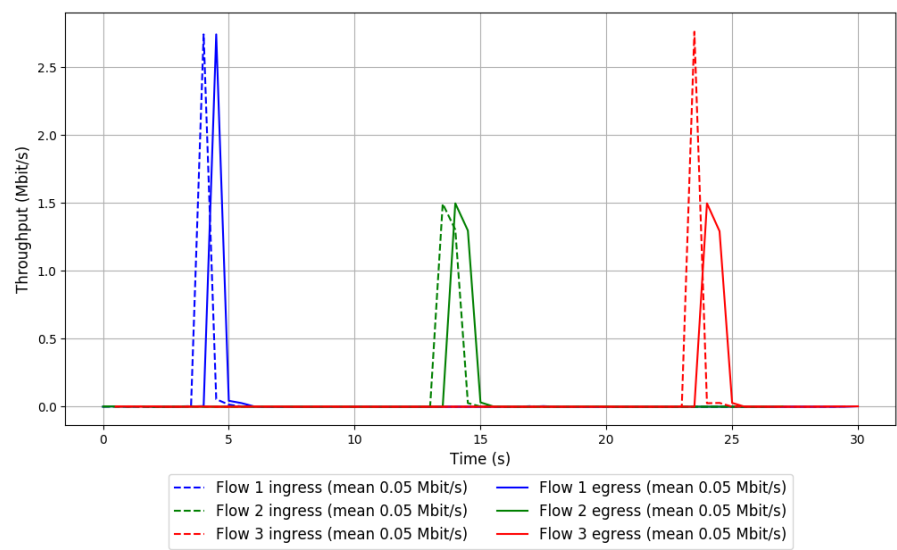
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 67.280 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

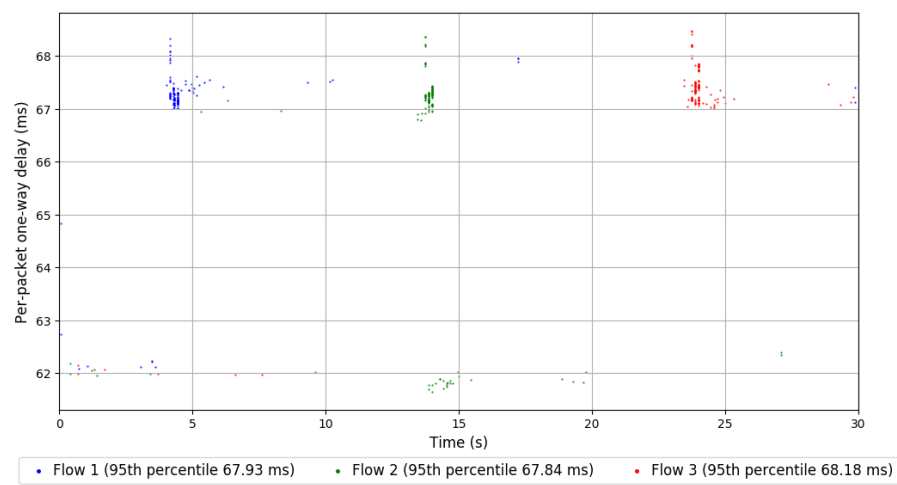
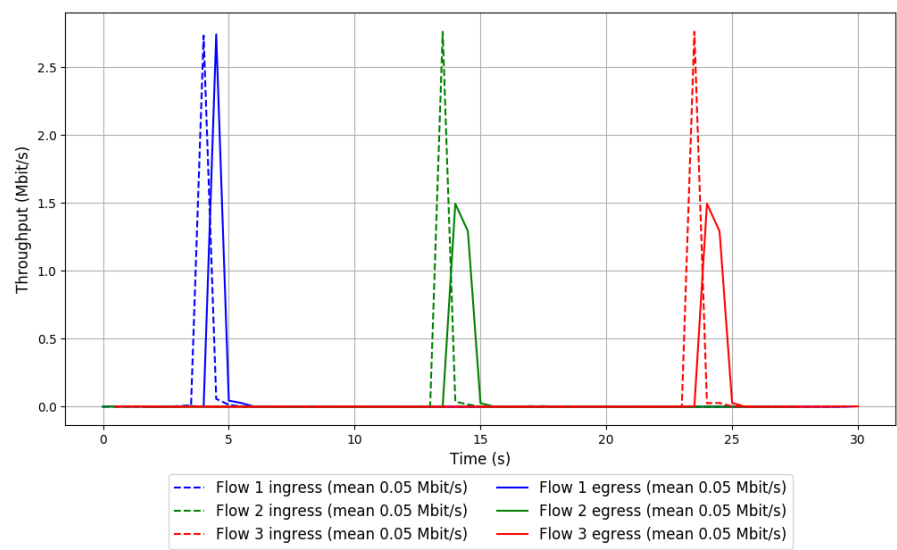


Run 4: Statistics of WebRTC media

Start at: 2018-05-23 11:26:15
End at: 2018-05-23 11:26:45
Local clock offset: -0.064 ms
Remote clock offset: -0.176 ms

Below is generated by plot.py at 2018-05-23 16:05:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 67.928 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 67.928 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 67.837 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 68.179 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-05-23 11:48:36

End at: 2018-05-23 11:49:06

Local clock offset: -0.262 ms

Remote clock offset: 0.157 ms

Below is generated by plot.py at 2018-05-23 16:05:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 67.029 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 67.257 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 66.614 ms

Loss rate: 0.00%

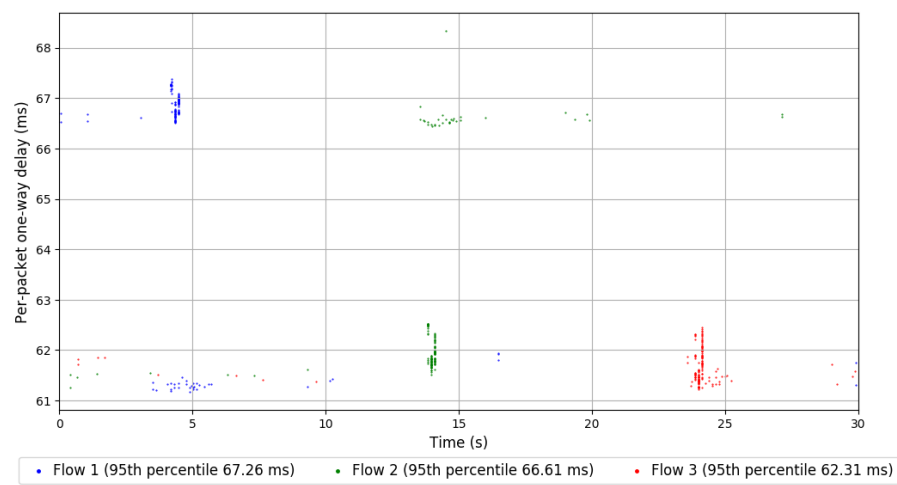
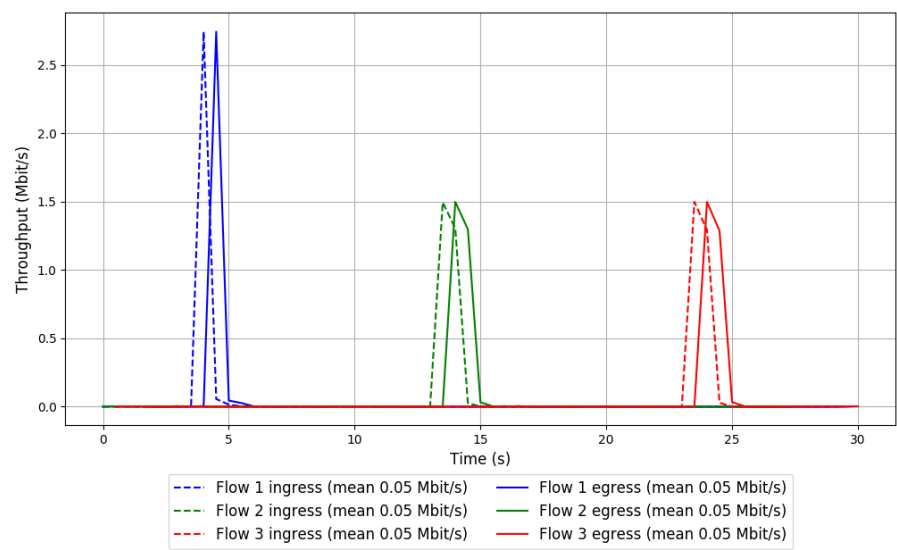
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 62.313 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

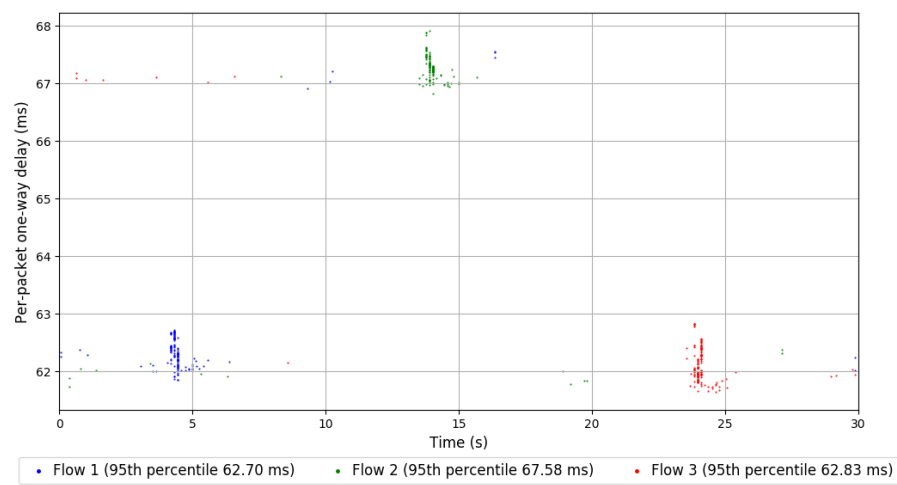
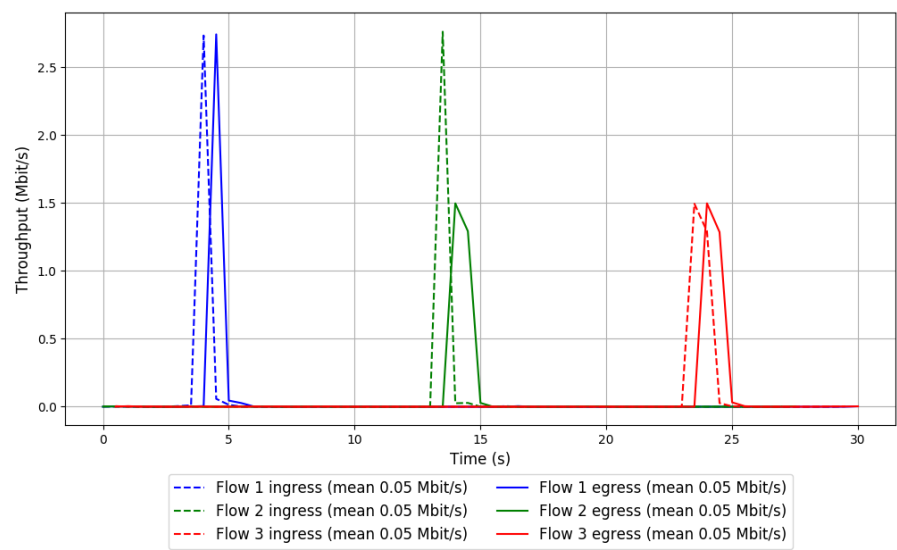


Run 6: Statistics of WebRTC media

Start at: 2018-05-23 12:10:42
End at: 2018-05-23 12:11:12
Local clock offset: -0.2 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-05-23 16:05:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 67.466 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 62.696 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 67.584 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 62.830 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-05-23 12:33:09

End at: 2018-05-23 12:33:39

Local clock offset: 0.041 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-05-23 16:05:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 62.632 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.020 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 62.751 ms

Loss rate: 0.00%

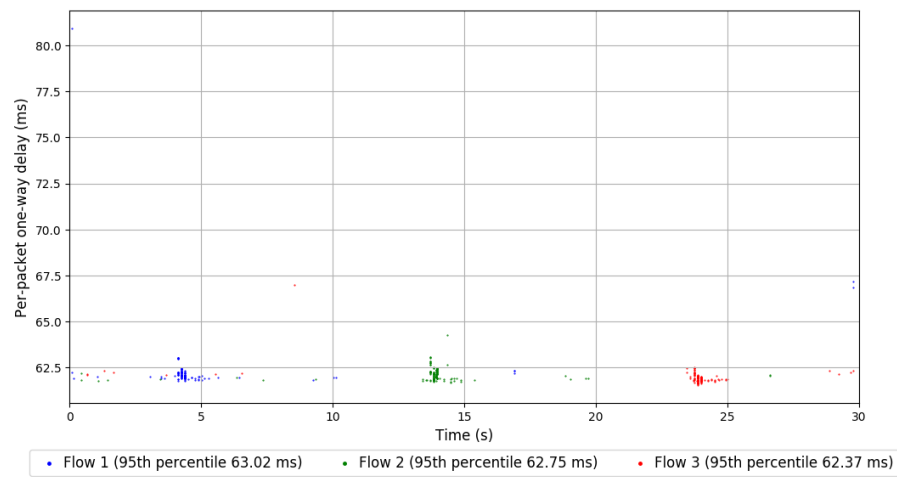
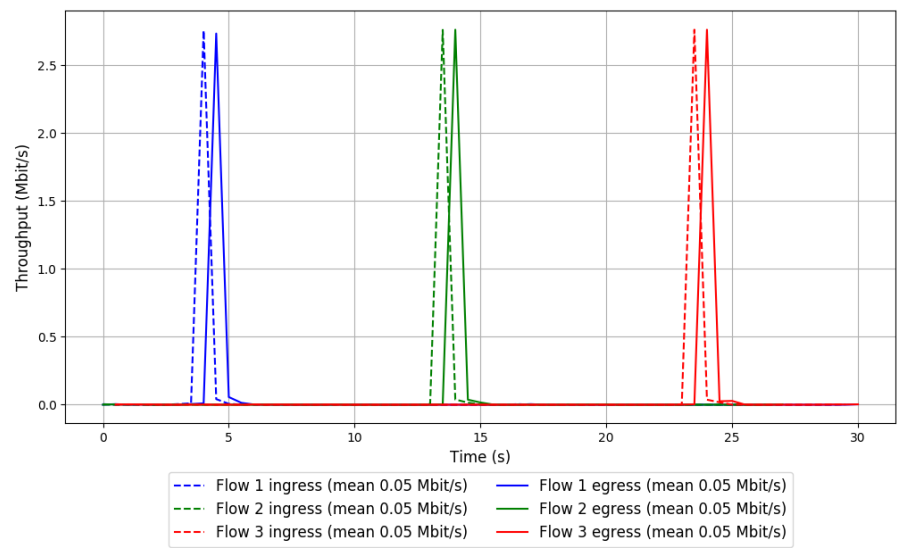
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 62.374 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

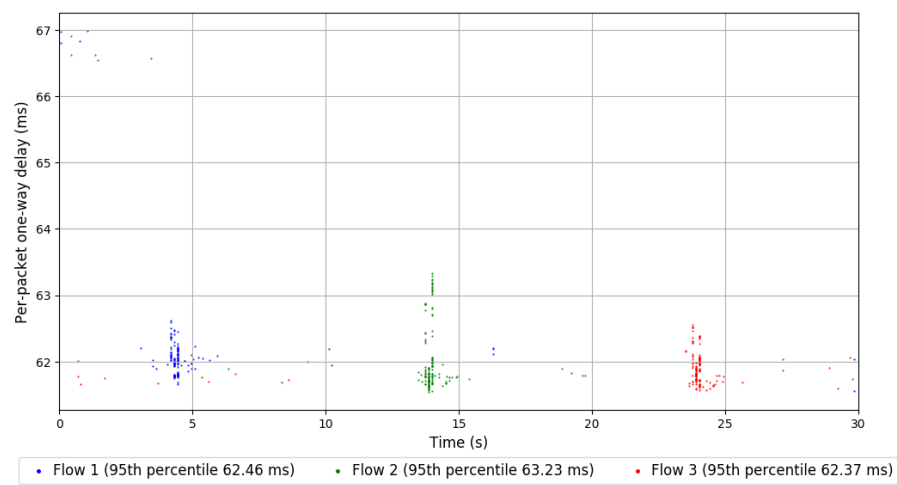
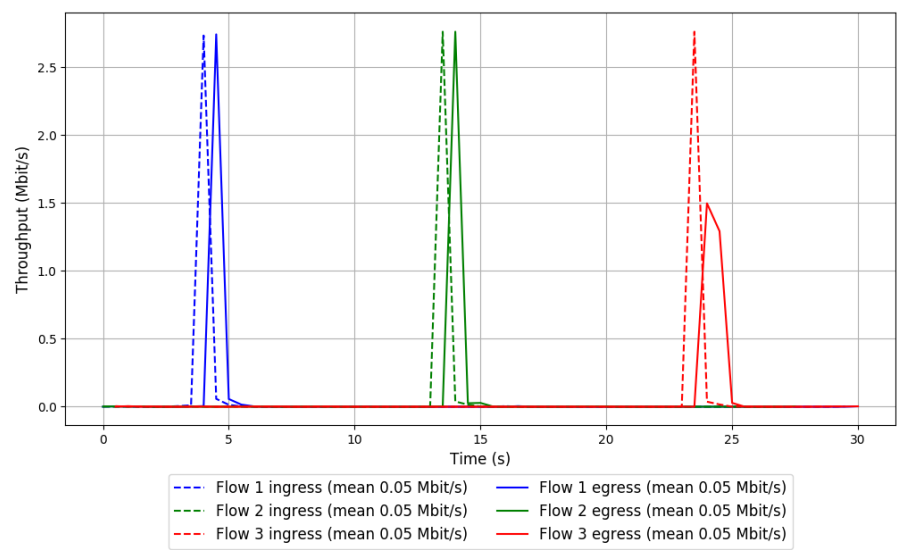


Run 8: Statistics of WebRTC media

Start at: 2018-05-23 12:55:34
End at: 2018-05-23 12:56:04
Local clock offset: -0.079 ms
Remote clock offset: 0.046 ms

Below is generated by plot.py at 2018-05-23 16:05:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 63.009 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 62.462 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.228 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 62.374 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

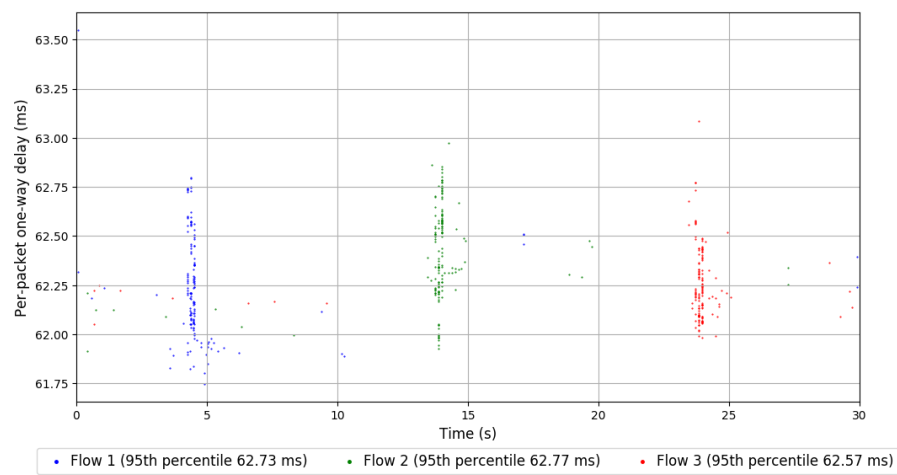
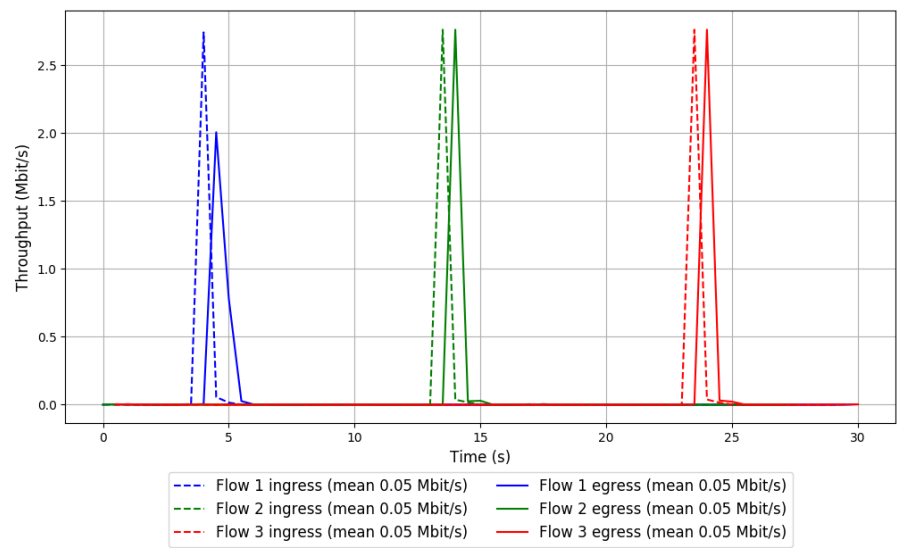


Run 9: Statistics of WebRTC media

Start at: 2018-05-23 13:18:06
End at: 2018-05-23 13:18:36
Local clock offset: -0.097 ms
Remote clock offset: -0.309 ms

Below is generated by plot.py at 2018-05-23 16:05:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 62.741 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 62.735 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 62.775 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 62.571 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-23 13:40:08

End at: 2018-05-23 13:40:38

Local clock offset: 0.123 ms

Remote clock offset: 0.103 ms

Below is generated by plot.py at 2018-05-23 16:05:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 67.156 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 67.448 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 62.404 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 62.632 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

