

Pantheon Report

Generated at 2018-05-25 09:10:46 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

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

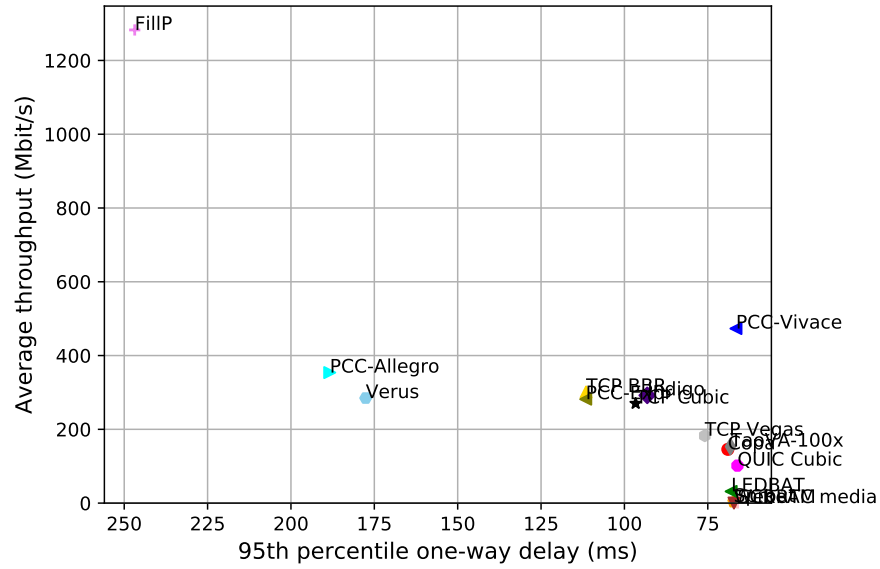
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

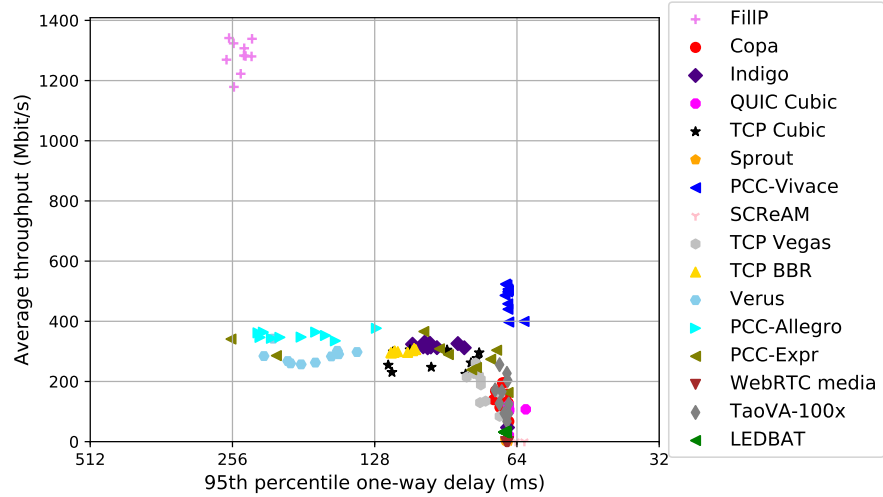
Git summary:

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

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



test from GCE Iowa to GCE Tokyo, 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	157.90	150.65	129.24	107.75	111.39	117.32	0.08	0.14	0.35
Copa	10	66.00	93.23	57.59	68.49	69.24	69.70	0.01	0.00	0.02
TCP Cubic	10	149.90	144.69	71.99	95.64	95.51	97.77	0.05	0.05	0.37
FillP	10	663.55	636.22	589.75	256.71	243.60	161.92	0.70	0.52	0.68
Indigo	10	163.58	144.44	101.15	88.64	94.93	100.09	0.02	0.03	0.07
LEDBAT	10	20.26	13.72	7.04	67.98	68.10	67.78	0.02	0.02	0.00
PCC-Allegro	10	301.97	69.56	17.02	186.91	192.58	167.66	0.37	0.43	0.69
PCC-Expr	10	172.21	137.52	54.33	104.78	123.67	121.50	0.63	1.43	2.06
QUIC Cubic	10	53.49	50.82	43.81	65.63	64.63	65.12	0.00	0.00	0.00
SCReAM	10	0.22	0.22	0.22	64.84	65.76	62.27	0.00	0.00	0.00
Sprout	10	1.51	1.63	1.61	67.15	67.02	66.15	0.00	0.00	0.00
TaoVA-100x	10	89.81	83.42	93.33	69.08	68.53	69.56	0.00	0.01	0.06
TCP Vegas	10	107.00	63.67	100.50	74.43	74.28	75.56	0.00	0.01	0.09
Verus	10	171.02	124.80	96.36	162.99	181.62	200.61	0.69	0.98	2.62
PCC-Vivace	10	279.26	220.82	142.72	65.98	65.95	65.57	0.00	0.01	0.02
WebRTC media	10	0.05	0.05	0.05	66.69	67.15	66.60	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-05-25 03:19:02

End at: 2018-05-25 03:19:32

Local clock offset: -0.037 ms

Remote clock offset: 0.371 ms

Below is generated by plot.py at 2018-05-25 07:03:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 296.61 Mbit/s

95th percentile per-packet one-way delay: 109.043 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 152.31 Mbit/s

95th percentile per-packet one-way delay: 107.526 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 149.72 Mbit/s

95th percentile per-packet one-way delay: 109.001 ms

Loss rate: 0.27%

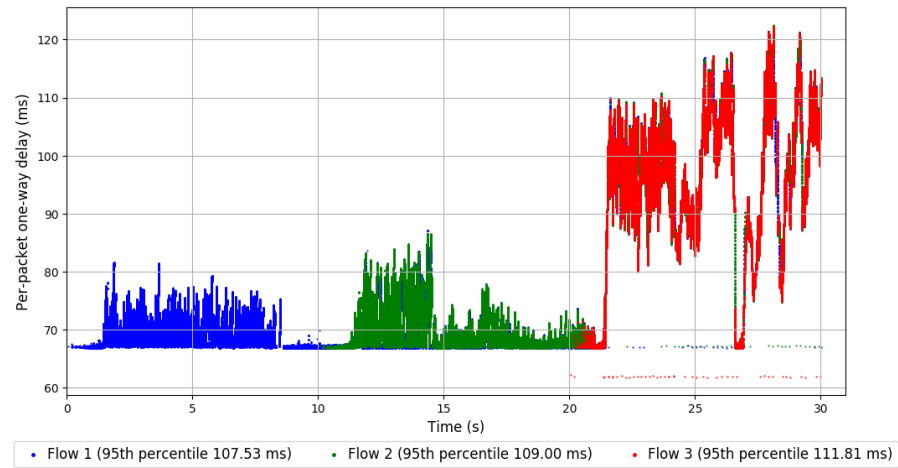
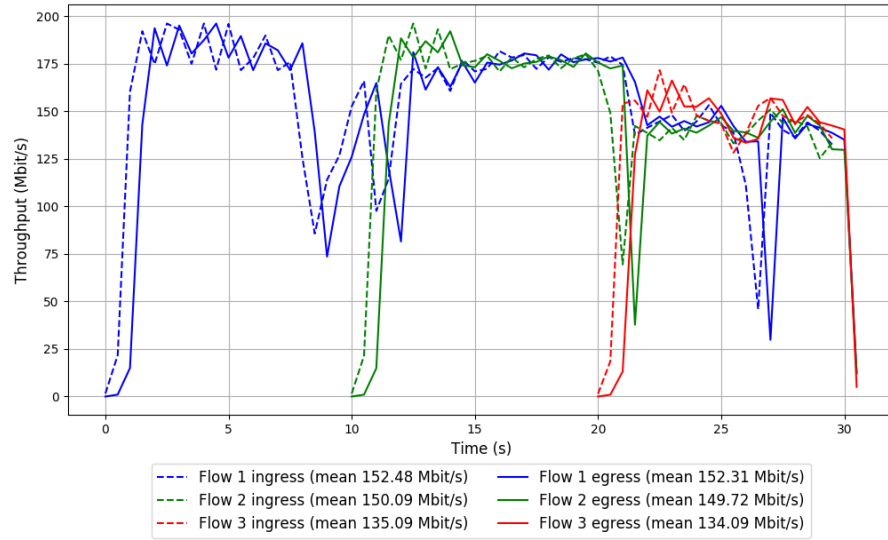
-- Flow 3:

Average throughput: 134.09 Mbit/s

95th percentile per-packet one-way delay: 111.812 ms

Loss rate: 0.72%

Run 1: Report of TCP BBR — Data Link

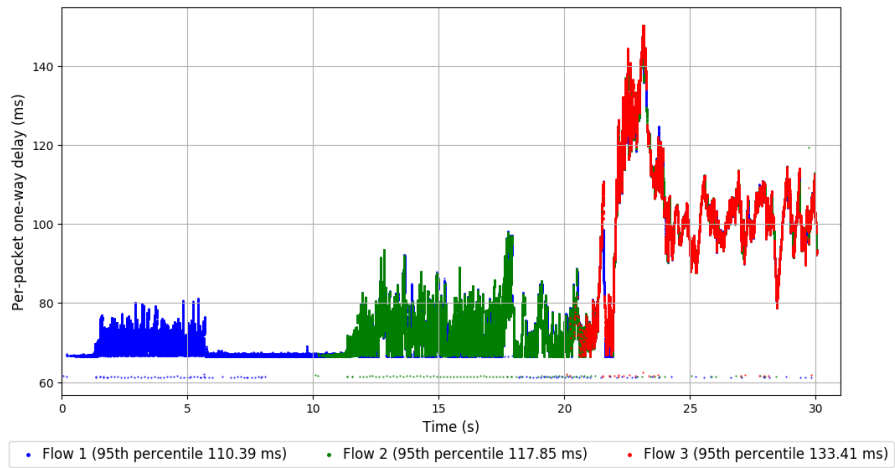
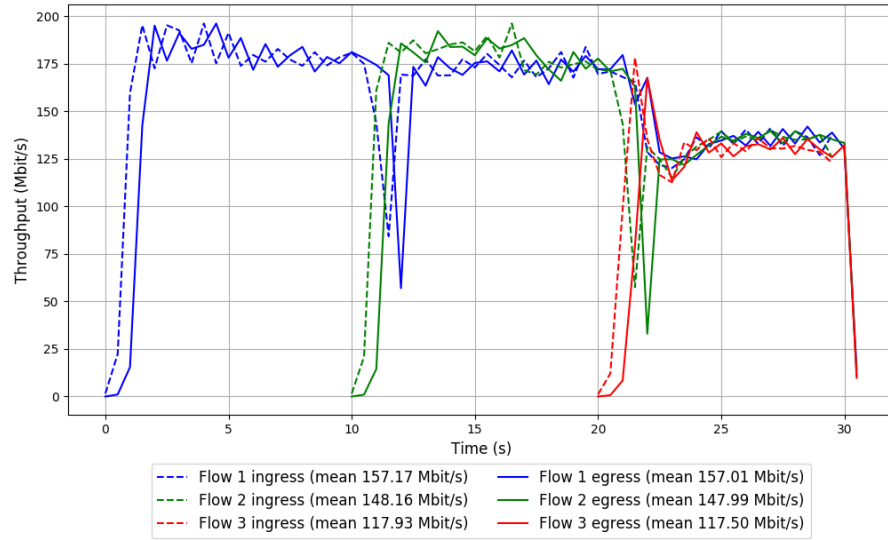


Run 2: Statistics of TCP BBR

Start at: 2018-05-25 03:41:41
End at: 2018-05-25 03:42:11
Local clock offset: 0.039 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2018-05-25 07:03:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 294.64 Mbit/s
95th percentile per-packet one-way delay: 117.994 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 157.01 Mbit/s
95th percentile per-packet one-way delay: 110.386 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 147.99 Mbit/s
95th percentile per-packet one-way delay: 117.848 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 117.50 Mbit/s
95th percentile per-packet one-way delay: 133.410 ms
Loss rate: 0.36%

Run 2: Report of TCP BBR — Data Link

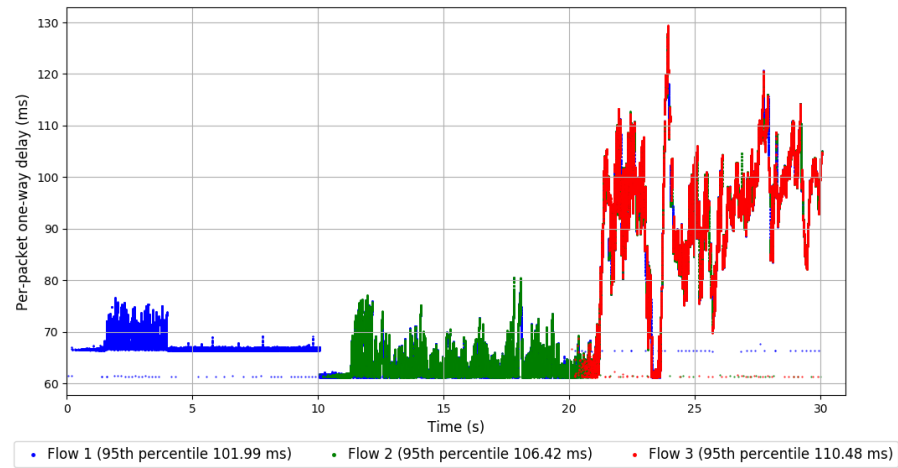
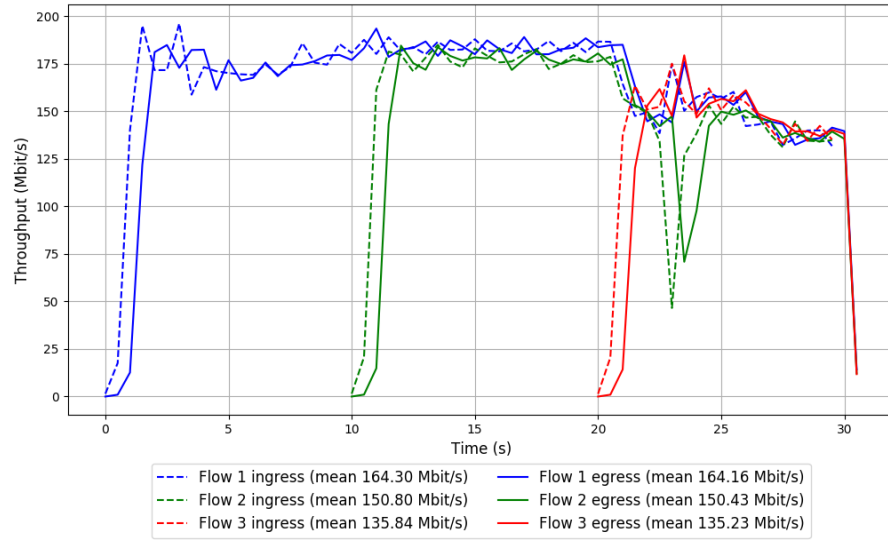


Run 3: Statistics of TCP BBR

Start at: 2018-05-25 04:04:19
End at: 2018-05-25 04:04:49
Local clock offset: 0.069 ms
Remote clock offset: -0.161 ms

Below is generated by plot.py at 2018-05-25 07:03:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 309.30 Mbit/s
95th percentile per-packet one-way delay: 105.690 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 164.16 Mbit/s
95th percentile per-packet one-way delay: 101.990 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 150.43 Mbit/s
95th percentile per-packet one-way delay: 106.422 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 135.23 Mbit/s
95th percentile per-packet one-way delay: 110.480 ms
Loss rate: 0.44%

Run 3: Report of TCP BBR — Data Link

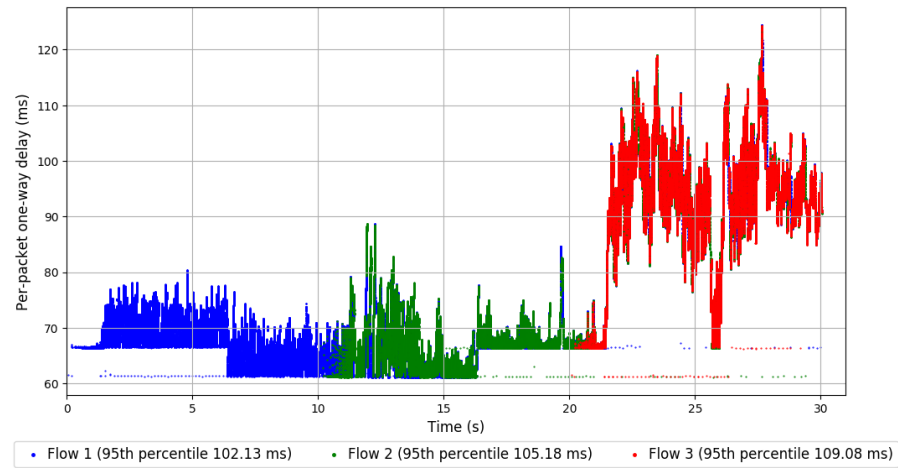
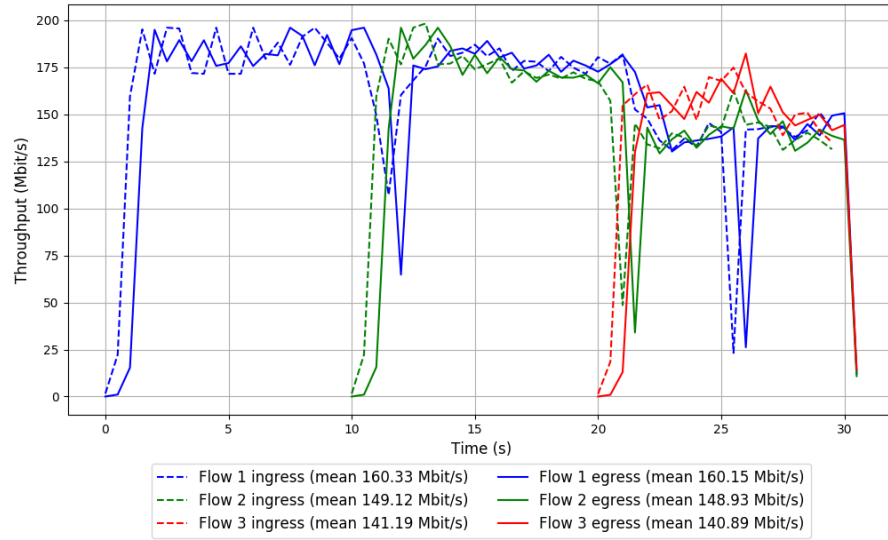


Run 4: Statistics of TCP BBR

Start at: 2018-05-25 04:26:53
End at: 2018-05-25 04:27:23
Local clock offset: -0.063 ms
Remote clock offset: -0.231 ms

Below is generated by plot.py at 2018-05-25 07:03:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 306.11 Mbit/s
95th percentile per-packet one-way delay: 104.801 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 160.15 Mbit/s
95th percentile per-packet one-way delay: 102.128 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 148.93 Mbit/s
95th percentile per-packet one-way delay: 105.178 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 140.89 Mbit/s
95th percentile per-packet one-way delay: 109.075 ms
Loss rate: 0.16%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-05-25 04:49:33

End at: 2018-05-25 04:50:03

Local clock offset: 0.024 ms

Remote clock offset: 0.382 ms

Below is generated by plot.py at 2018-05-25 07:03:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 301.75 Mbit/s

95th percentile per-packet one-way delay: 116.151 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 155.54 Mbit/s

95th percentile per-packet one-way delay: 111.642 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 159.59 Mbit/s

95th percentile per-packet one-way delay: 115.944 ms

Loss rate: 0.11%

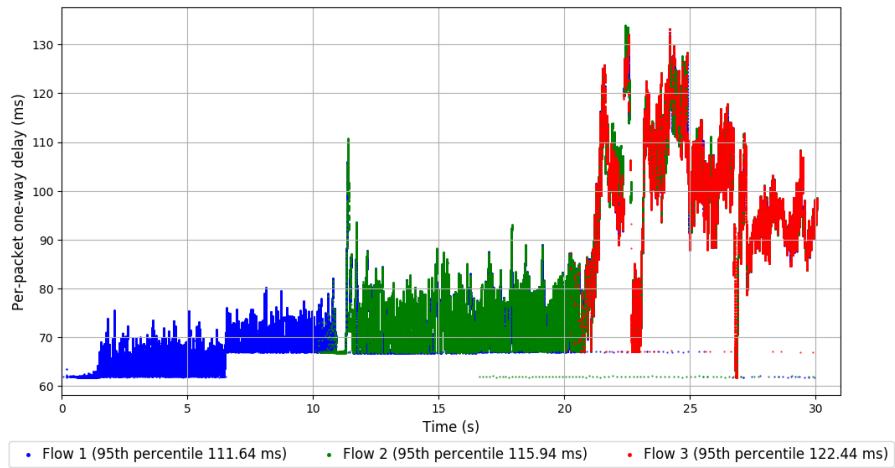
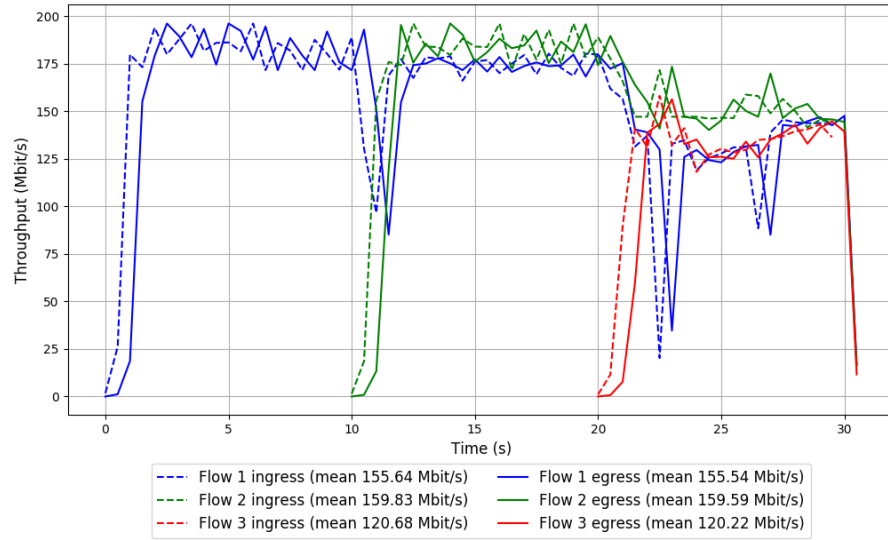
-- Flow 3:

Average throughput: 120.22 Mbit/s

95th percentile per-packet one-way delay: 122.435 ms

Loss rate: 0.37%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-05-25 05:11:51

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

Local clock offset: -0.053 ms

Remote clock offset: 0.115 ms

Below is generated by plot.py at 2018-05-25 07:03:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 295.97 Mbit/s

95th percentile per-packet one-way delay: 118.320 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 157.25 Mbit/s

95th percentile per-packet one-way delay: 114.000 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 146.42 Mbit/s

95th percentile per-packet one-way delay: 117.671 ms

Loss rate: 0.13%

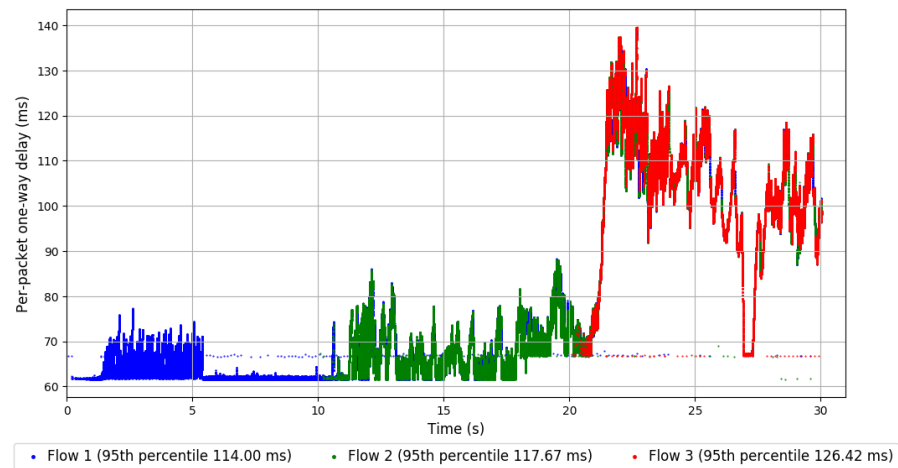
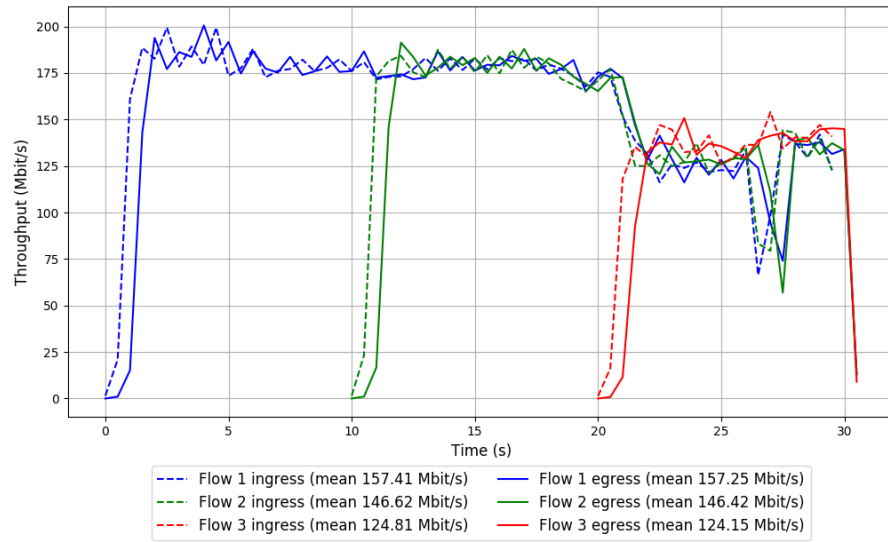
-- Flow 3:

Average throughput: 124.15 Mbit/s

95th percentile per-packet one-way delay: 126.416 ms

Loss rate: 0.53%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-05-25 05:34:08

End at: 2018-05-25 05:34:38

Local clock offset: -0.093 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2018-05-25 07:03:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.38 Mbit/s

95th percentile per-packet one-way delay: 106.415 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 159.43 Mbit/s

95th percentile per-packet one-way delay: 103.416 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 151.32 Mbit/s

95th percentile per-packet one-way delay: 106.764 ms

Loss rate: 0.10%

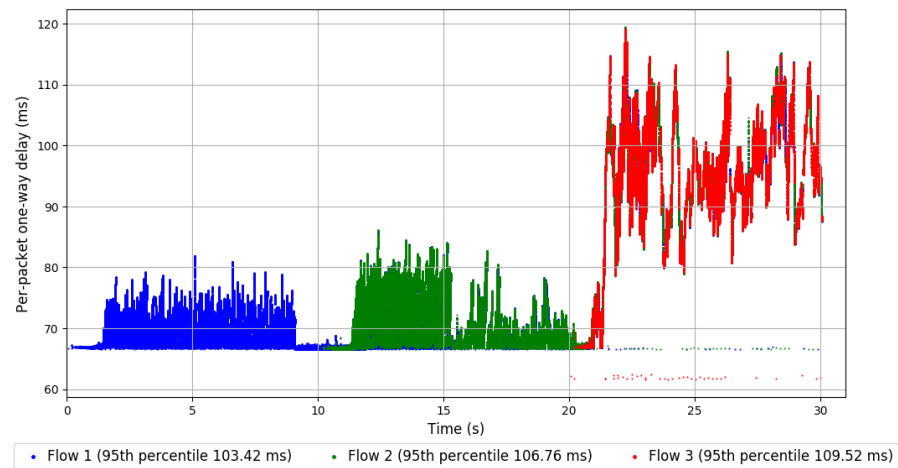
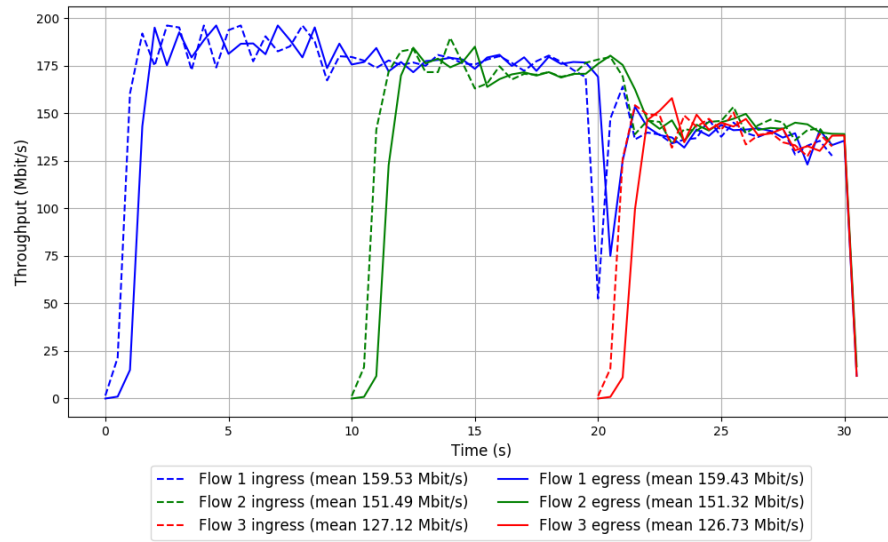
-- Flow 3:

Average throughput: 126.73 Mbit/s

95th percentile per-packet one-way delay: 109.520 ms

Loss rate: 0.30%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-05-25 05:56:38

End at: 2018-05-25 05:57:08

Local clock offset: -0.083 ms

Remote clock offset: 0.158 ms

Below is generated by plot.py at 2018-05-25 07:03:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 299.35 Mbit/s

95th percentile per-packet one-way delay: 114.375 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 156.64 Mbit/s

95th percentile per-packet one-way delay: 109.849 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 149.42 Mbit/s

95th percentile per-packet one-way delay: 115.284 ms

Loss rate: 0.12%

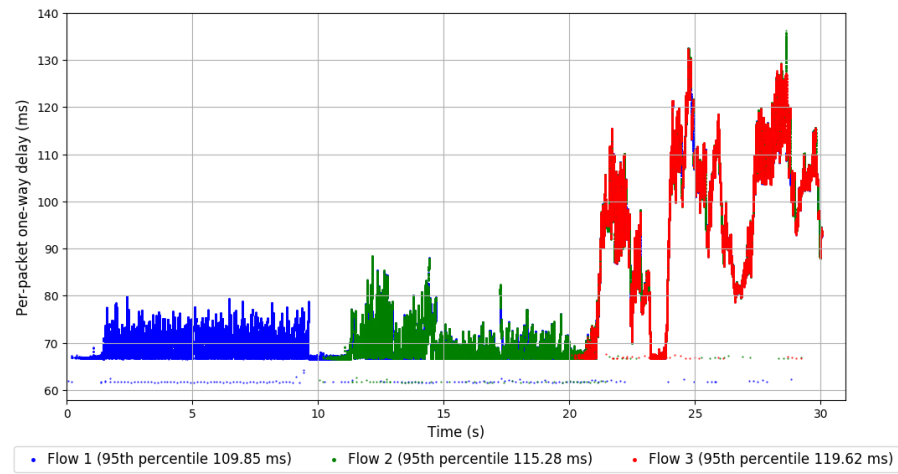
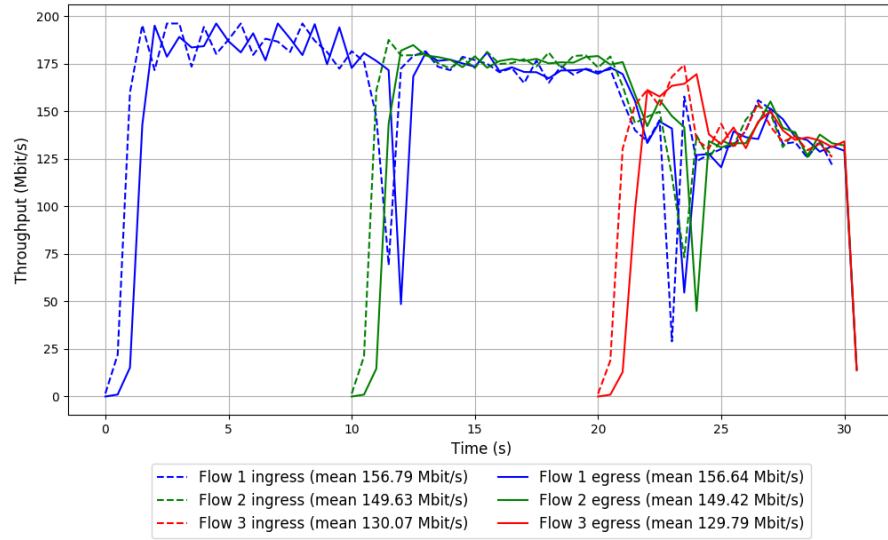
-- Flow 3:

Average throughput: 129.79 Mbit/s

95th percentile per-packet one-way delay: 119.624 ms

Loss rate: 0.21%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-05-25 06:19:22

End at: 2018-05-25 06:19:52

Local clock offset: -0.079 ms

Remote clock offset: 0.132 ms

Below is generated by plot.py at 2018-05-25 07:09:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 309.19 Mbit/s

95th percentile per-packet one-way delay: 105.553 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 159.91 Mbit/s

95th percentile per-packet one-way delay: 103.712 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 153.44 Mbit/s

95th percentile per-packet one-way delay: 103.339 ms

Loss rate: 0.07%

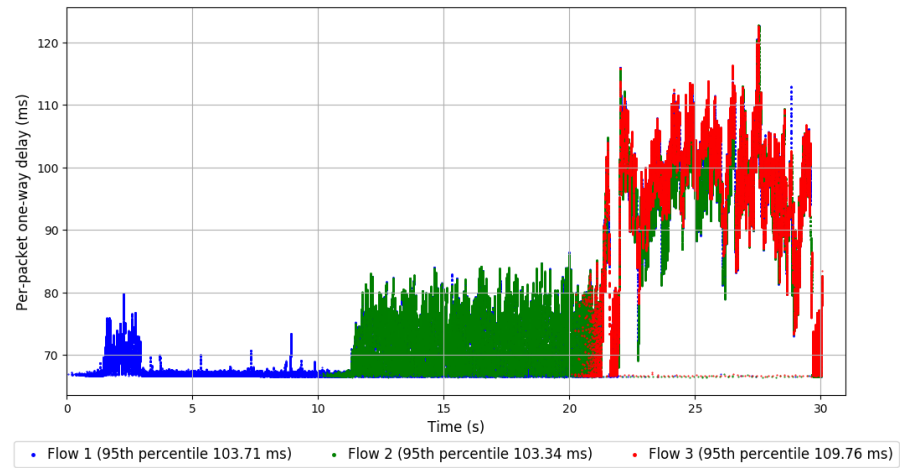
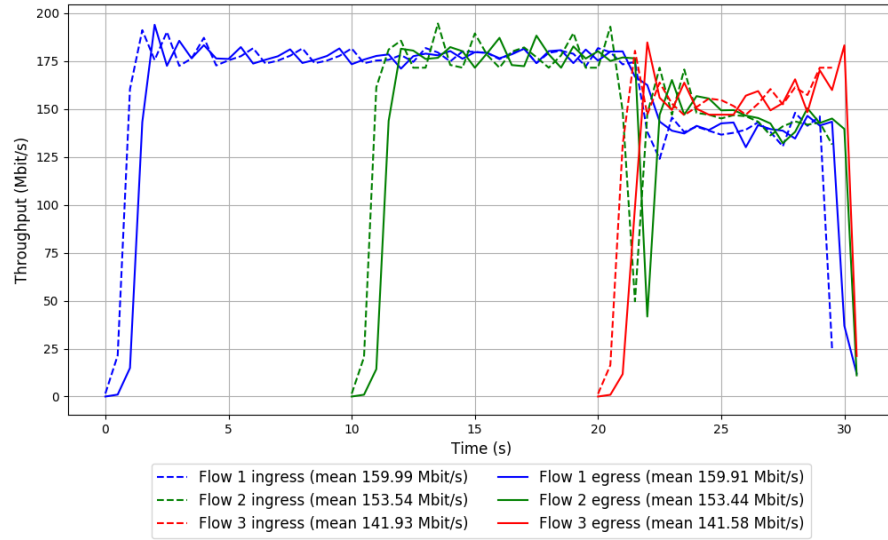
-- Flow 3:

Average throughput: 141.58 Mbit/s

95th percentile per-packet one-way delay: 109.763 ms

Loss rate: 0.12%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-05-25 06:42:04

End at: 2018-05-25 06:42:34

Local clock offset: -0.077 ms

Remote clock offset: 0.307 ms

Below is generated by plot.py at 2018-05-25 07:09:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 296.54 Mbit/s

95th percentile per-packet one-way delay: 116.553 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 156.59 Mbit/s

95th percentile per-packet one-way delay: 112.889 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 149.26 Mbit/s

95th percentile per-packet one-way delay: 116.417 ms

Loss rate: 0.14%

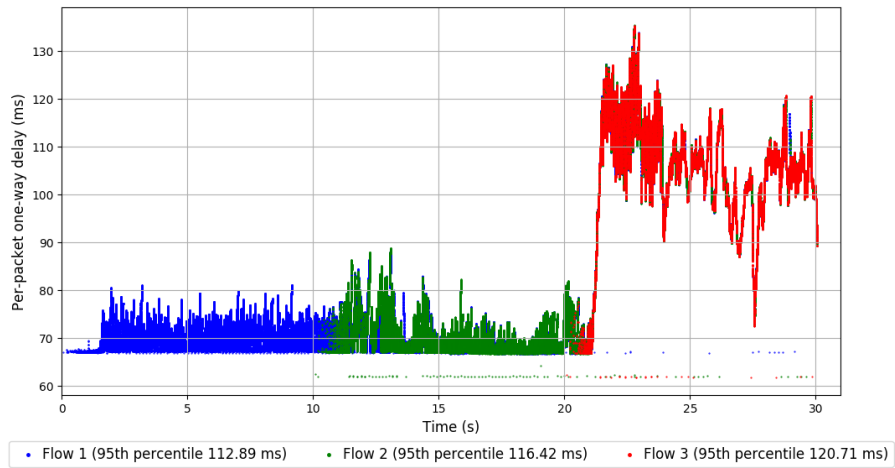
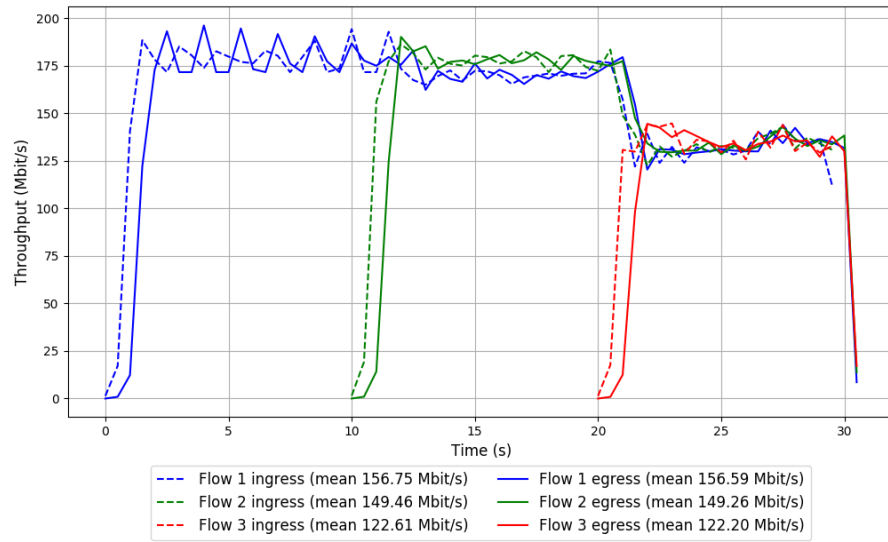
-- Flow 3:

Average throughput: 122.20 Mbit/s

95th percentile per-packet one-way delay: 120.709 ms

Loss rate: 0.32%

Run 10: Report of TCP BBR — Data Link

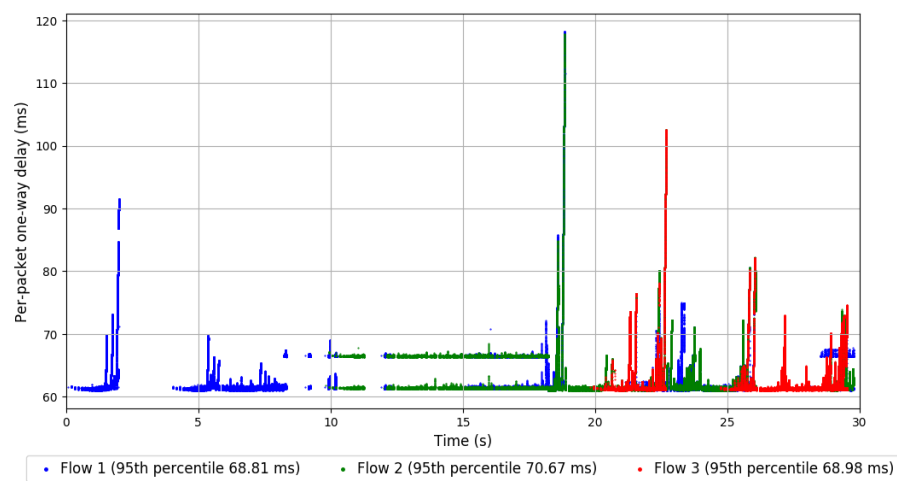
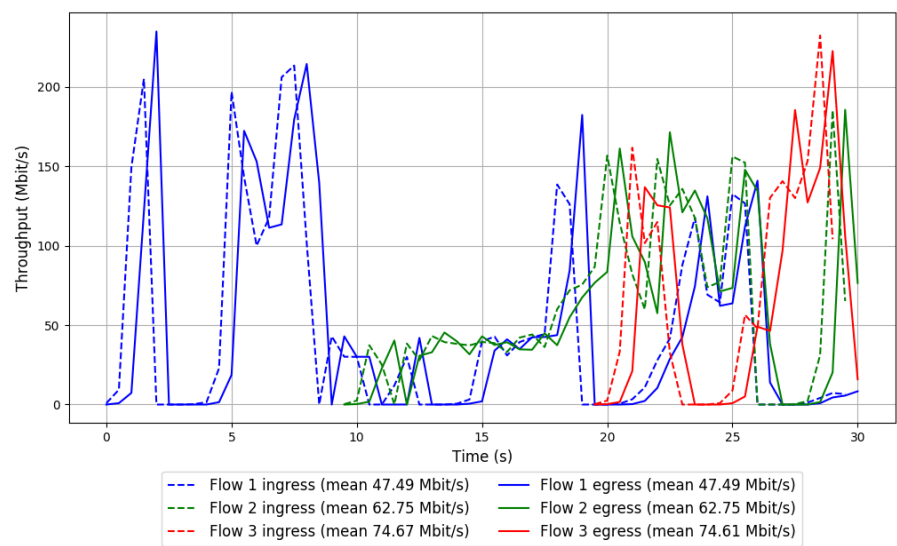


Run 1: Statistics of Copa

Start at: 2018-05-25 02:59:51
End at: 2018-05-25 03:00:21
Local clock offset: -0.08 ms
Remote clock offset: -0.164 ms

Below is generated by plot.py at 2018-05-25 07:09:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 114.08 Mbit/s
95th percentile per-packet one-way delay: 69.541 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.49 Mbit/s
95th percentile per-packet one-way delay: 68.815 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 62.75 Mbit/s
95th percentile per-packet one-way delay: 70.672 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 74.61 Mbit/s
95th percentile per-packet one-way delay: 68.976 ms
Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-05-25 03:22:05

End at: 2018-05-25 03:22:35

Local clock offset: -0.058 ms

Remote clock offset: 0.104 ms

Below is generated by plot.py at 2018-05-25 07:09:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 157.82 Mbit/s

95th percentile per-packet one-way delay: 67.189 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 63.65 Mbit/s

95th percentile per-packet one-way delay: 66.863 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 105.39 Mbit/s

95th percentile per-packet one-way delay: 67.049 ms

Loss rate: 0.00%

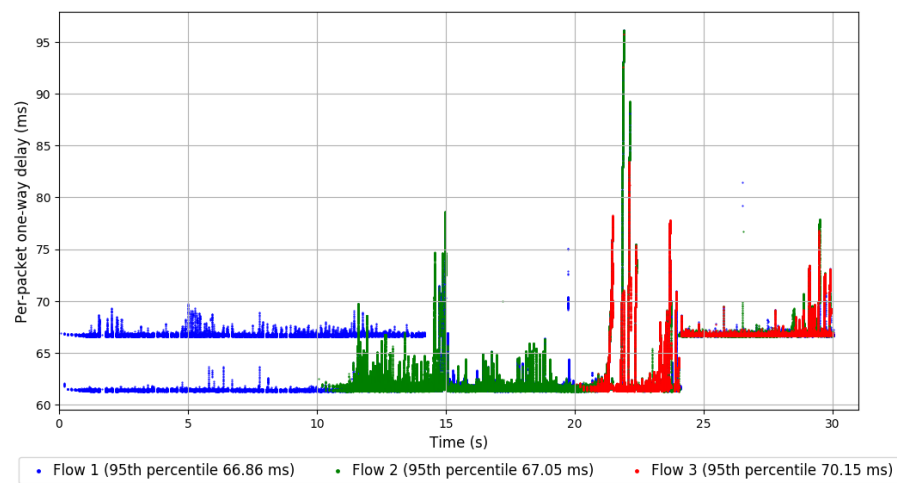
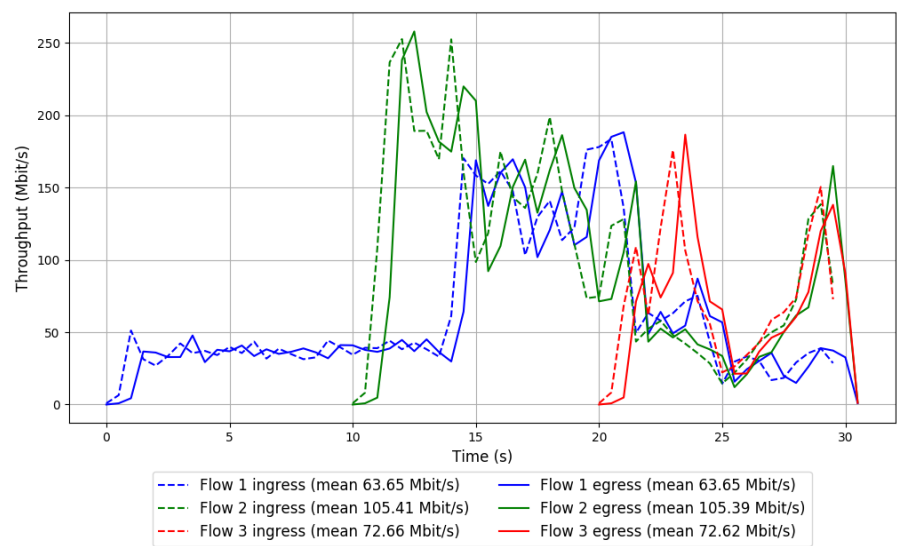
-- Flow 3:

Average throughput: 72.62 Mbit/s

95th percentile per-packet one-way delay: 70.153 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link

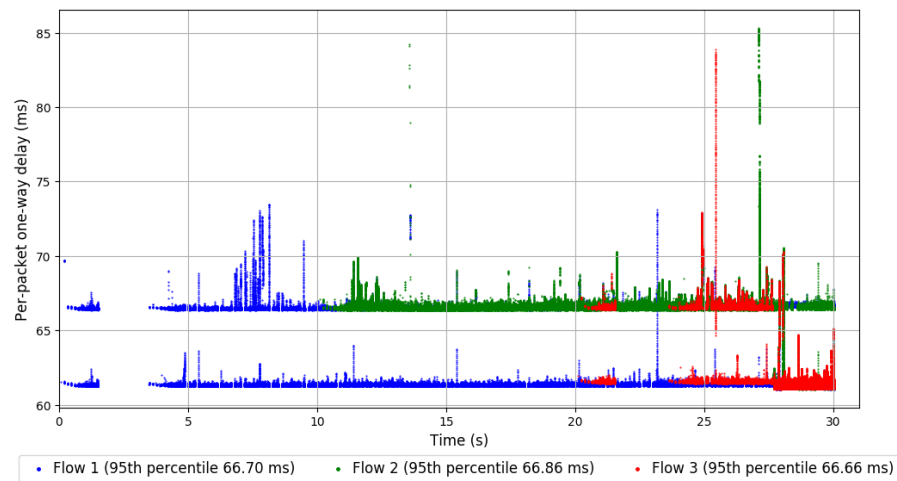
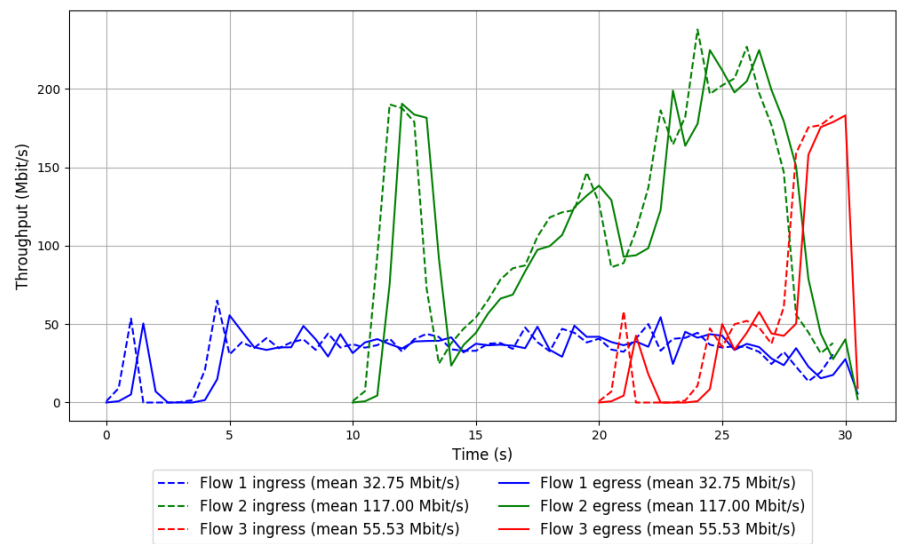


Run 3: Statistics of Copa

Start at: 2018-05-25 03:44:42
End at: 2018-05-25 03:45:12
Local clock offset: 0.031 ms
Remote clock offset: -0.159 ms

Below is generated by plot.py at 2018-05-25 07:09:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 129.01 Mbit/s
95th percentile per-packet one-way delay: 66.797 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.75 Mbit/s
95th percentile per-packet one-way delay: 66.699 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 117.00 Mbit/s
95th percentile per-packet one-way delay: 66.860 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 55.53 Mbit/s
95th percentile per-packet one-way delay: 66.664 ms
Loss rate: 0.00%

Run 3: Report of Copa — Data Link

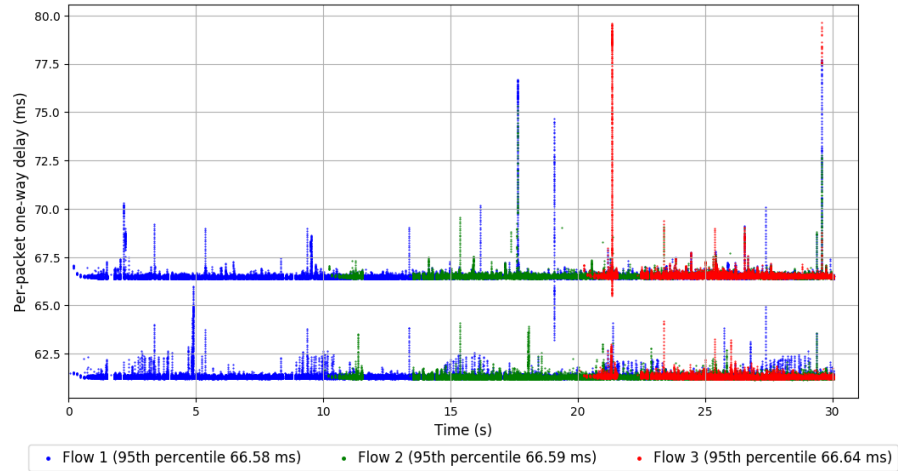
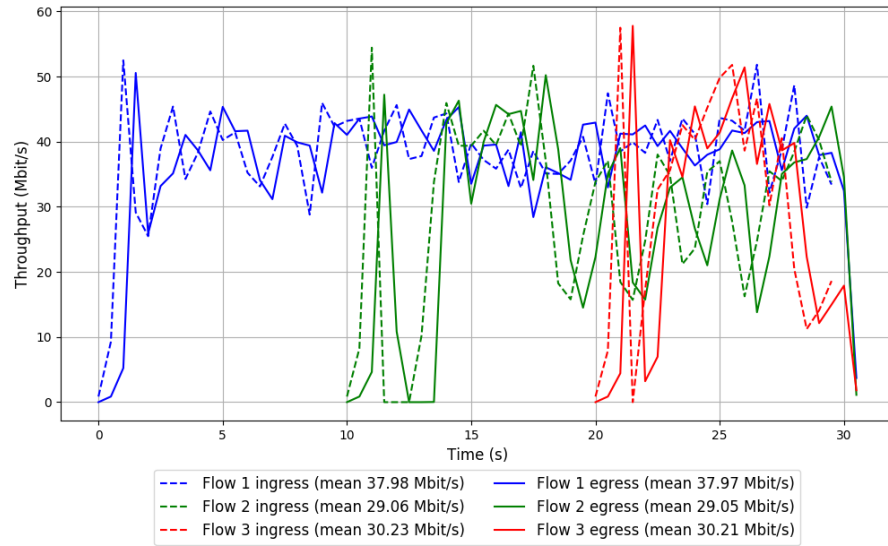


Run 4: Statistics of Copa

Start at: 2018-05-25 04:07:26
End at: 2018-05-25 04:07:56
Local clock offset: 0.018 ms
Remote clock offset: -0.182 ms

Below is generated by plot.py at 2018-05-25 07:09:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 67.35 Mbit/s
95th percentile per-packet one-way delay: 66.592 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 37.97 Mbit/s
95th percentile per-packet one-way delay: 66.575 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 29.05 Mbit/s
95th percentile per-packet one-way delay: 66.592 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.21 Mbit/s
95th percentile per-packet one-way delay: 66.635 ms
Loss rate: 0.00%

Run 4: Report of Copa — Data Link

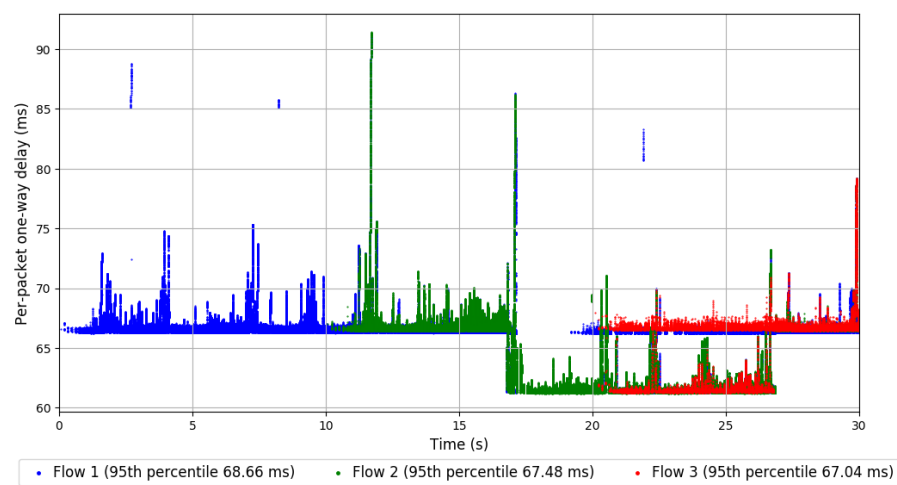
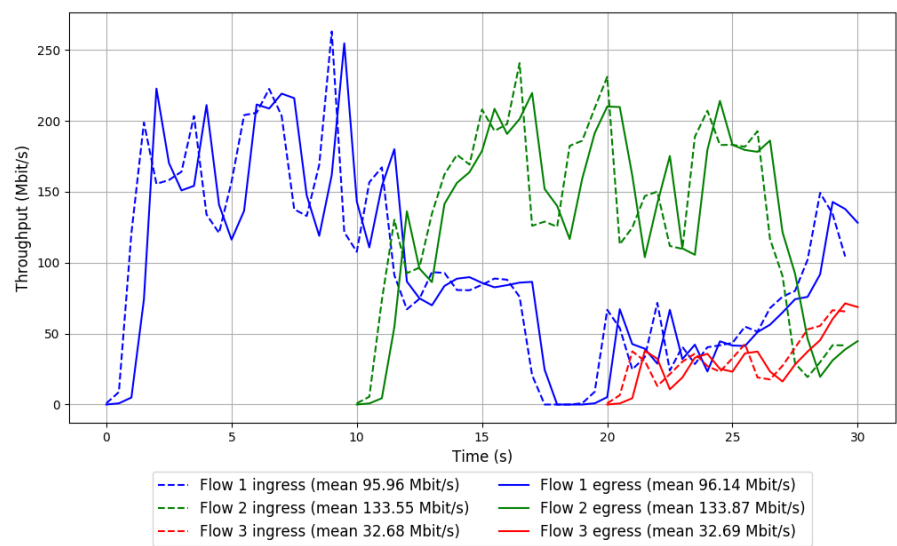


Run 5: Statistics of Copa

Start at: 2018-05-25 04:29:53
End at: 2018-05-25 04:30:23
Local clock offset: -0.059 ms
Remote clock offset: -0.081 ms

Below is generated by plot.py at 2018-05-25 07:11:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 195.99 Mbit/s
95th percentile per-packet one-way delay: 68.072 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.14 Mbit/s
95th percentile per-packet one-way delay: 68.657 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 133.87 Mbit/s
95th percentile per-packet one-way delay: 67.485 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 32.69 Mbit/s
95th percentile per-packet one-way delay: 67.041 ms
Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-05-25 04:52:26

End at: 2018-05-25 04:52:56

Local clock offset: 0.024 ms

Remote clock offset: 0.119 ms

Below is generated by plot.py at 2018-05-25 07:11:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 139.65 Mbit/s

95th percentile per-packet one-way delay: 71.710 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 92.38 Mbit/s

95th percentile per-packet one-way delay: 70.524 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 37.01 Mbit/s

95th percentile per-packet one-way delay: 71.994 ms

Loss rate: 0.02%

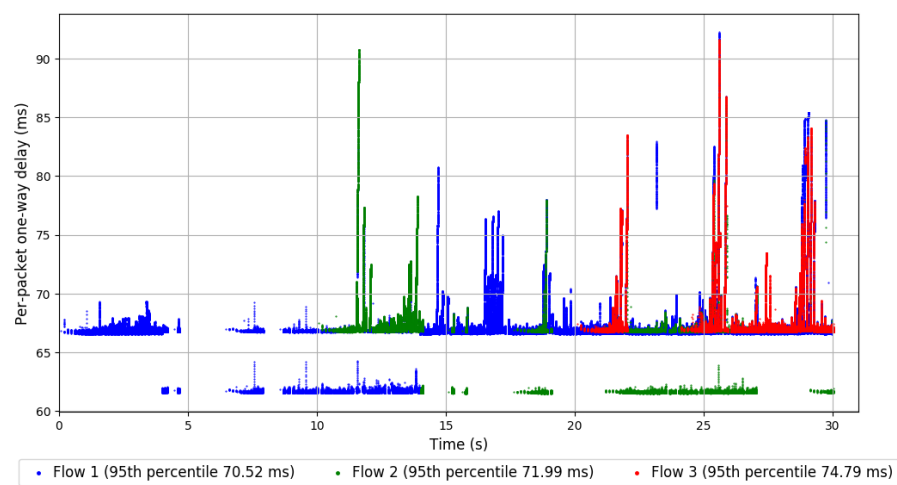
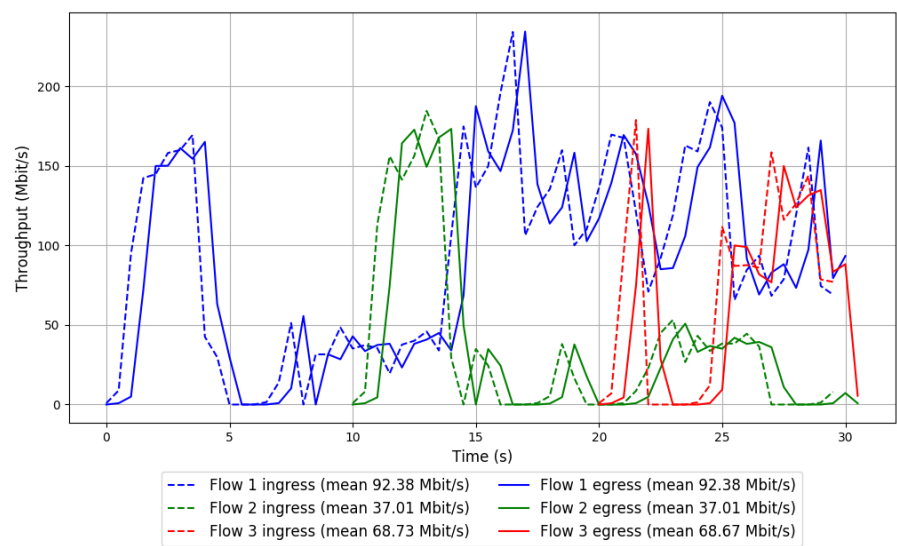
-- Flow 3:

Average throughput: 68.67 Mbit/s

95th percentile per-packet one-way delay: 74.788 ms

Loss rate: 0.12%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-05-25 05:14:49

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

Local clock offset: -0.014 ms

Remote clock offset: 0.107 ms

Below is generated by plot.py at 2018-05-25 07:12:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 152.94 Mbit/s

95th percentile per-packet one-way delay: 70.521 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 47.28 Mbit/s

95th percentile per-packet one-way delay: 70.574 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 110.66 Mbit/s

95th percentile per-packet one-way delay: 70.053 ms

Loss rate: 0.00%

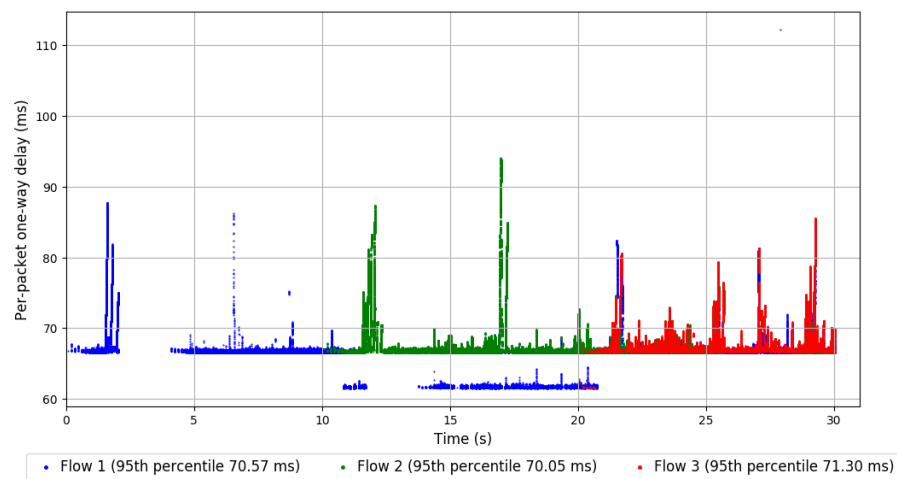
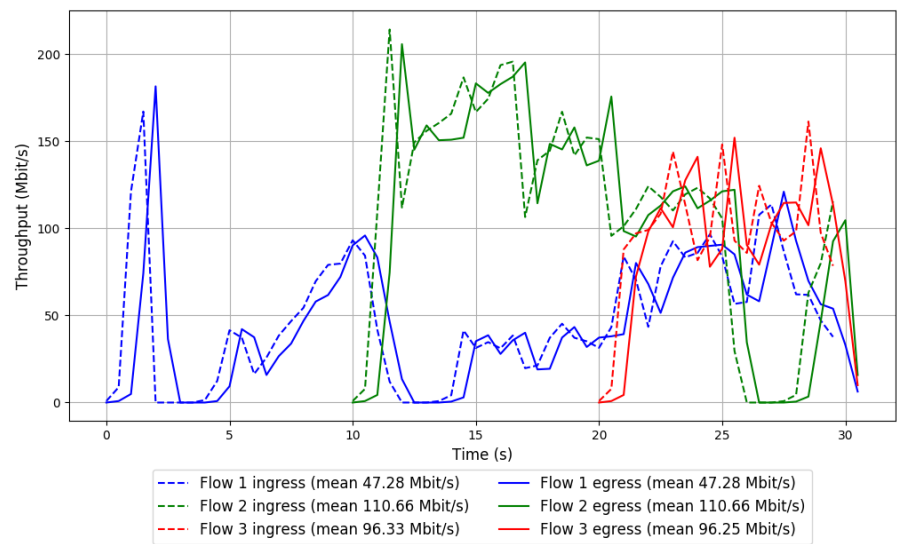
-- Flow 3:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 71.298 ms

Loss rate: 0.08%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-05-25 05:37:04

End at: 2018-05-25 05:37:34

Local clock offset: -0.065 ms

Remote clock offset: 0.258 ms

Below is generated by plot.py at 2018-05-25 07:13:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 135.93 Mbit/s

95th percentile per-packet one-way delay: 69.748 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 43.61 Mbit/s

95th percentile per-packet one-way delay: 67.431 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 103.88 Mbit/s

95th percentile per-packet one-way delay: 70.929 ms

Loss rate: 0.00%

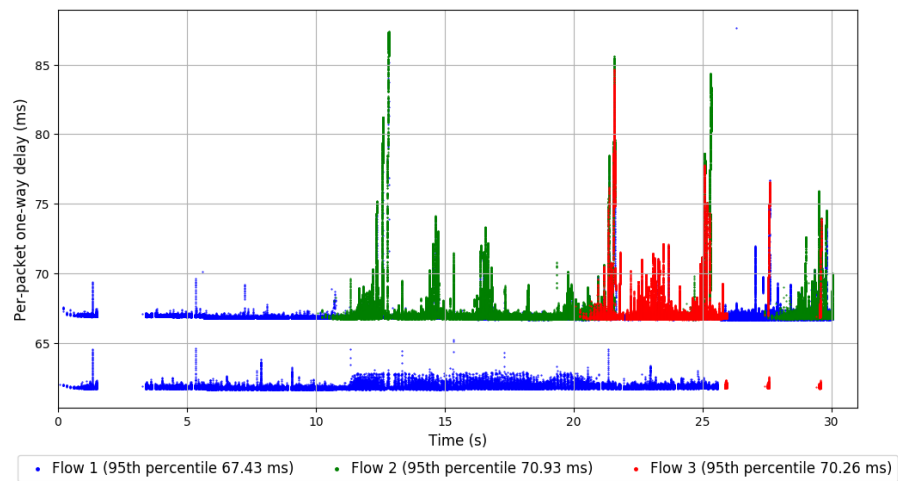
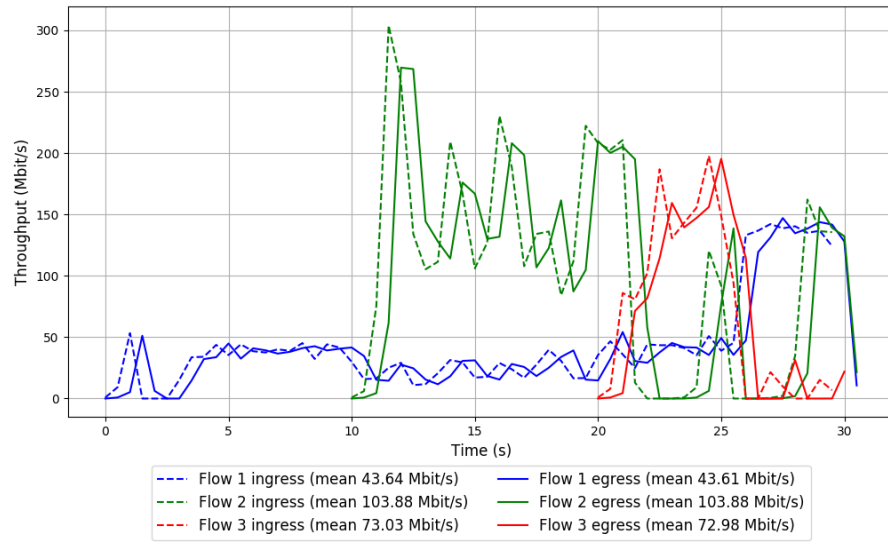
-- Flow 3:

Average throughput: 72.98 Mbit/s

95th percentile per-packet one-way delay: 70.261 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-05-25 05:59:45

End at: 2018-05-25 06:00:15

Local clock offset: -0.073 ms

Remote clock offset: 0.119 ms

Below is generated by plot.py at 2018-05-25 07:14:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 168.57 Mbit/s

95th percentile per-packet one-way delay: 71.046 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 85.05 Mbit/s

95th percentile per-packet one-way delay: 70.750 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 117.65 Mbit/s

95th percentile per-packet one-way delay: 70.784 ms

Loss rate: 0.00%

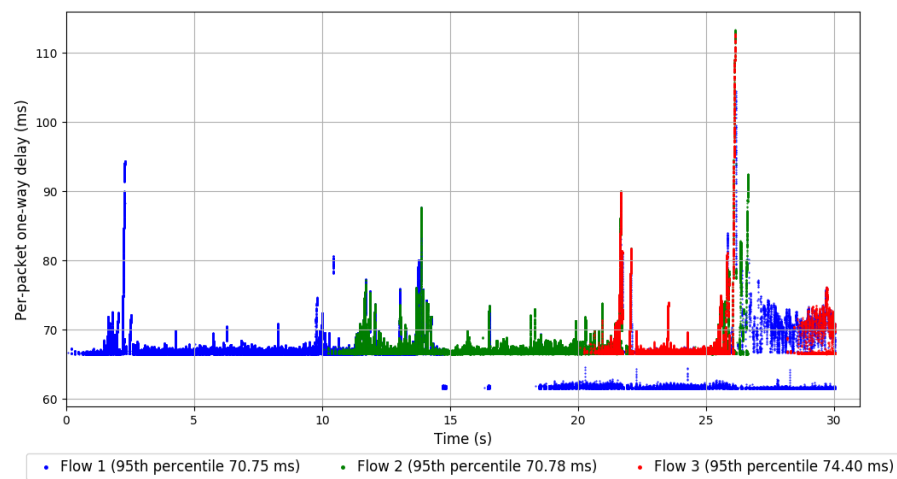
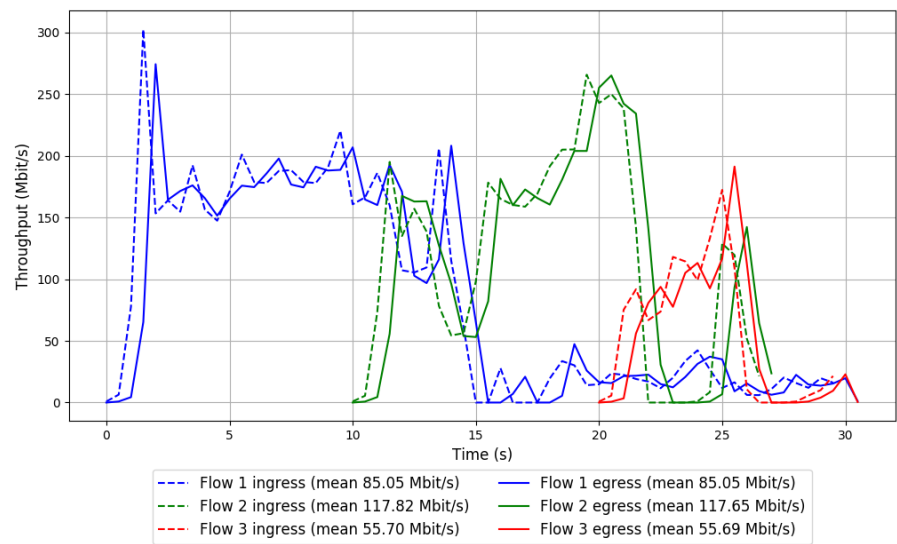
-- Flow 3:

Average throughput: 55.69 Mbit/s

95th percentile per-packet one-way delay: 74.399 ms

Loss rate: 0.03%

Run 9: Report of Copa — Data Link

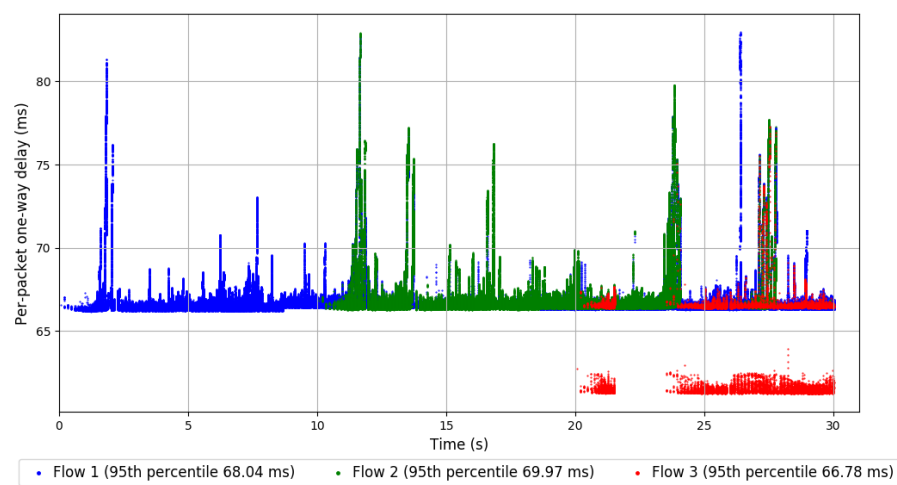
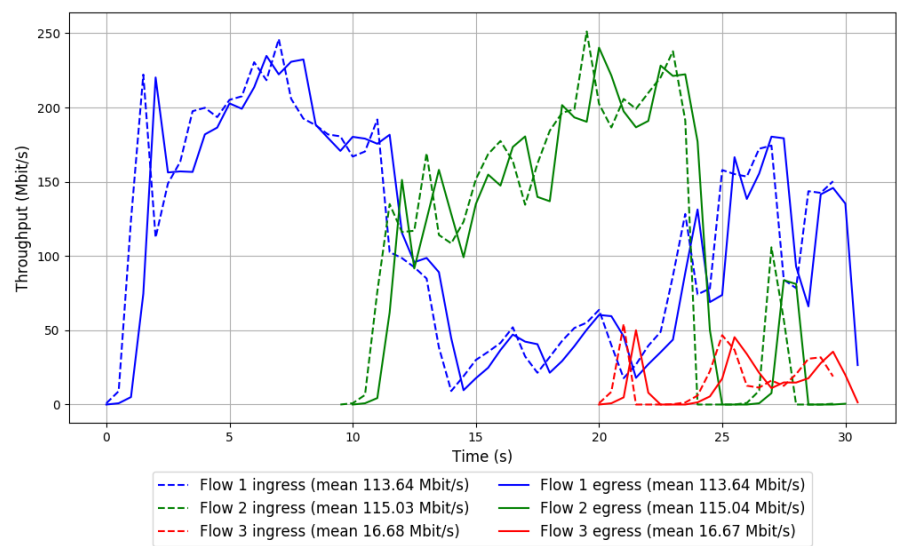


Run 10: Statistics of Copa

Start at: 2018-05-25 06:22:21
End at: 2018-05-25 06:22:51
Local clock offset: -0.099 ms
Remote clock offset: -0.128 ms

Below is generated by plot.py at 2018-05-25 07:16:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 195.61 Mbit/s
95th percentile per-packet one-way delay: 68.681 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 113.64 Mbit/s
95th percentile per-packet one-way delay: 68.044 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 115.04 Mbit/s
95th percentile per-packet one-way delay: 69.966 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 16.67 Mbit/s
95th percentile per-packet one-way delay: 66.779 ms
Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-05-25 03:13:38

End at: 2018-05-25 03:14:08

Local clock offset: -0.066 ms

Remote clock offset: 0.098 ms

Below is generated by plot.py at 2018-05-25 07:16:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 224.36 Mbit/s

95th percentile per-packet one-way delay: 82.189 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 117.97 Mbit/s

95th percentile per-packet one-way delay: 83.894 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 157.83 Mbit/s

95th percentile per-packet one-way delay: 79.998 ms

Loss rate: 0.00%

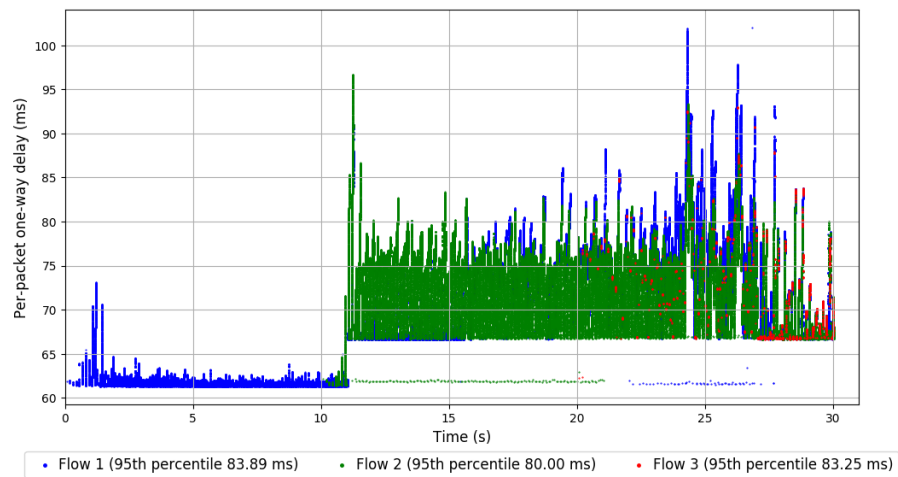
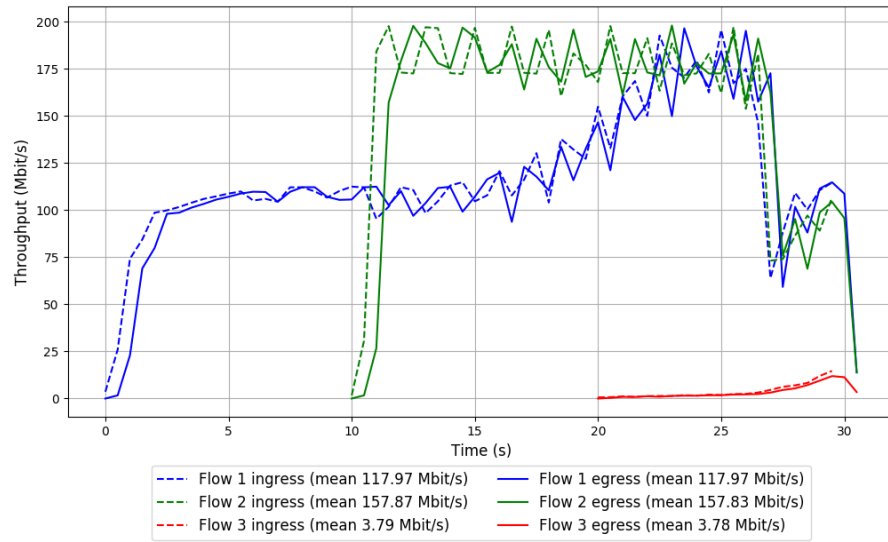
-- Flow 3:

Average throughput: 3.78 Mbit/s

95th percentile per-packet one-way delay: 83.251 ms

Loss rate: 0.10%

Run 1: Report of TCP Cubic — Data Link

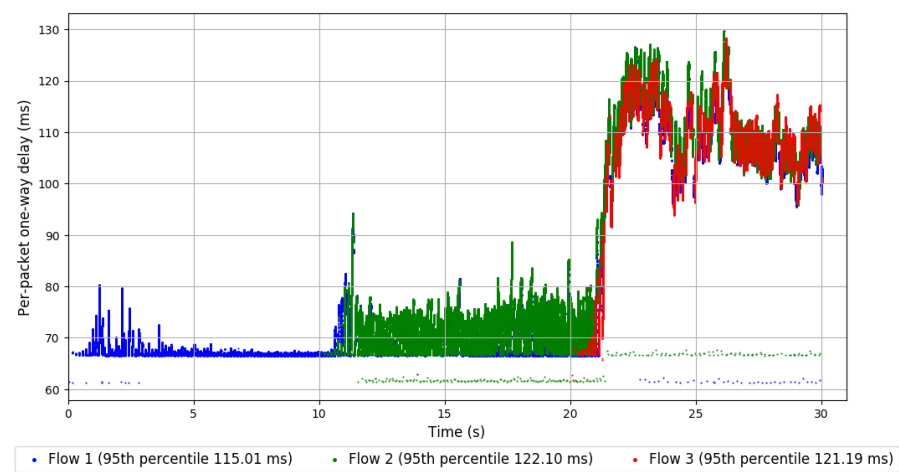
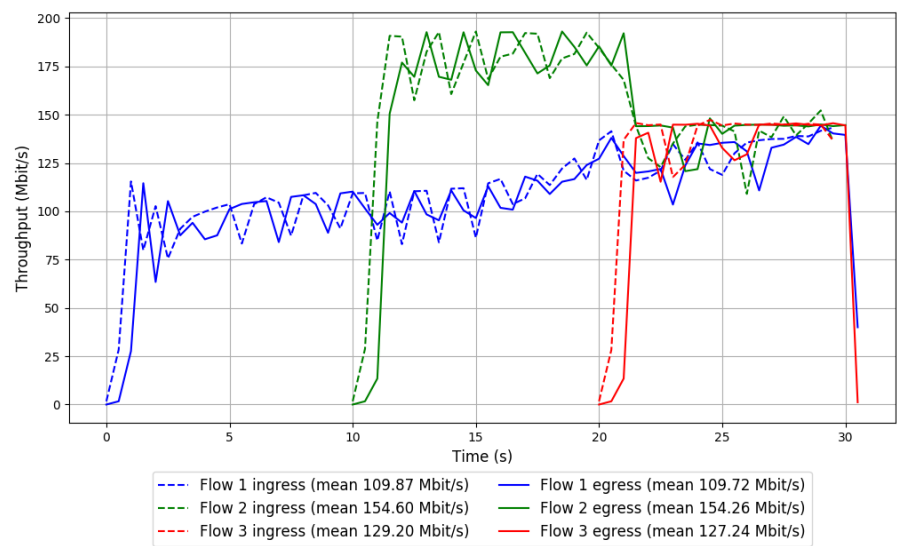


Run 2: Statistics of TCP Cubic

Start at: 2018-05-25 03:36:18
End at: 2018-05-25 03:36:48
Local clock offset: -0.011 ms
Remote clock offset: -0.027 ms

Below is generated by plot.py at 2018-05-25 07:16:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 254.52 Mbit/s
95th percentile per-packet one-way delay: 119.830 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 109.72 Mbit/s
95th percentile per-packet one-way delay: 115.008 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 154.26 Mbit/s
95th percentile per-packet one-way delay: 122.100 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 127.24 Mbit/s
95th percentile per-packet one-way delay: 121.185 ms
Loss rate: 1.52%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-05-25 03:58:53

End at: 2018-05-25 03:59:23

Local clock offset: 0.097 ms

Remote clock offset: 0.043 ms

Below is generated by plot.py at 2018-05-25 07:16:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 295.58 Mbit/s

95th percentile per-packet one-way delay: 76.933 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 180.76 Mbit/s

95th percentile per-packet one-way delay: 77.379 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 171.20 Mbit/s

95th percentile per-packet one-way delay: 75.904 ms

Loss rate: 0.00%

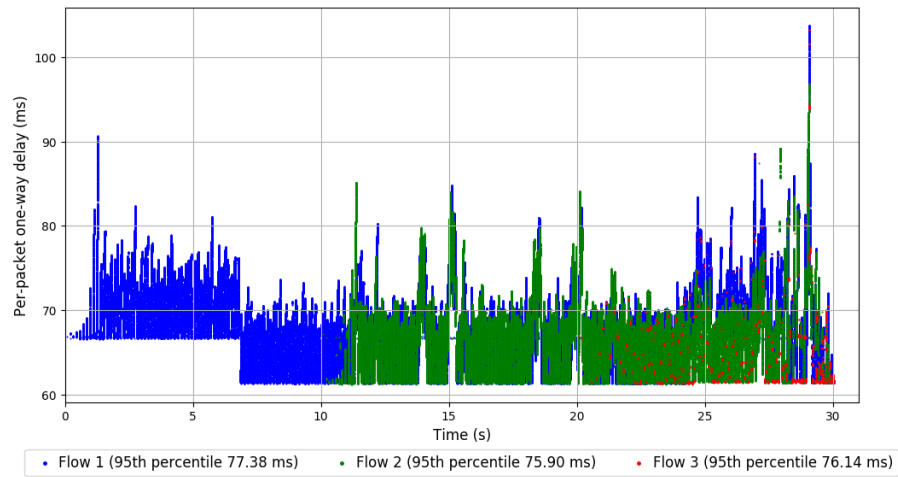
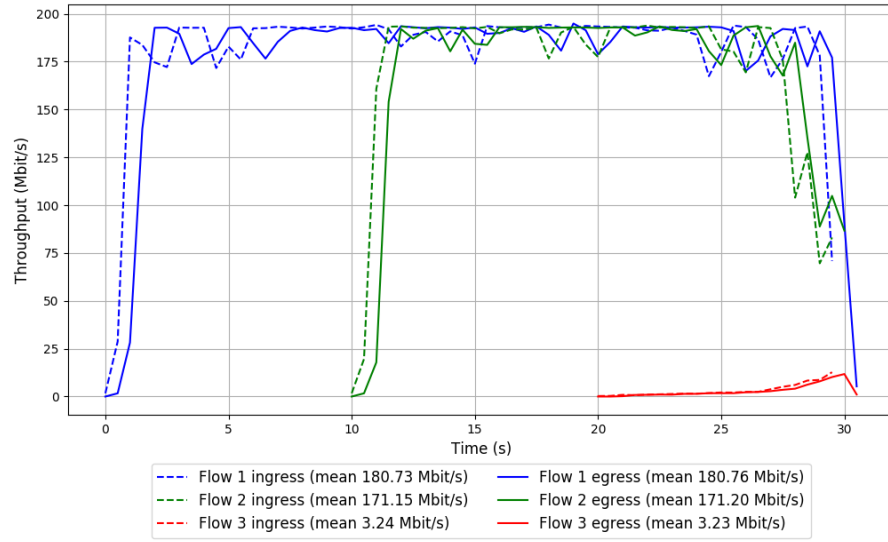
-- Flow 3:

Average throughput: 3.23 Mbit/s

95th percentile per-packet one-way delay: 76.142 ms

Loss rate: 0.37%

Run 3: Report of TCP Cubic — Data Link

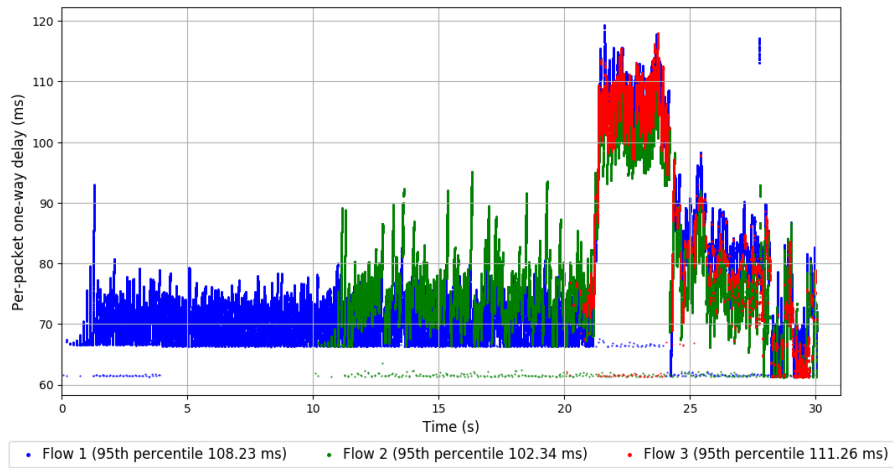
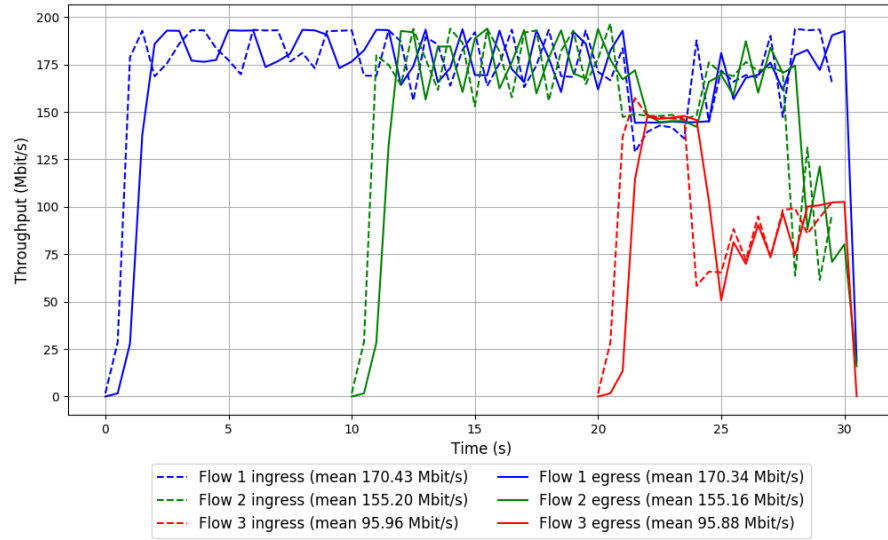


Run 4: Statistics of TCP Cubic

Start at: 2018-05-25 04:21:26
End at: 2018-05-25 04:21:56
Local clock offset: -0.049 ms
Remote clock offset: -0.125 ms

Below is generated by plot.py at 2018-05-25 07:17:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 305.56 Mbit/s
95th percentile per-packet one-way delay: 107.757 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 170.34 Mbit/s
95th percentile per-packet one-way delay: 108.229 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 155.16 Mbit/s
95th percentile per-packet one-way delay: 102.343 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 95.88 Mbit/s
95th percentile per-packet one-way delay: 111.258 ms
Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link

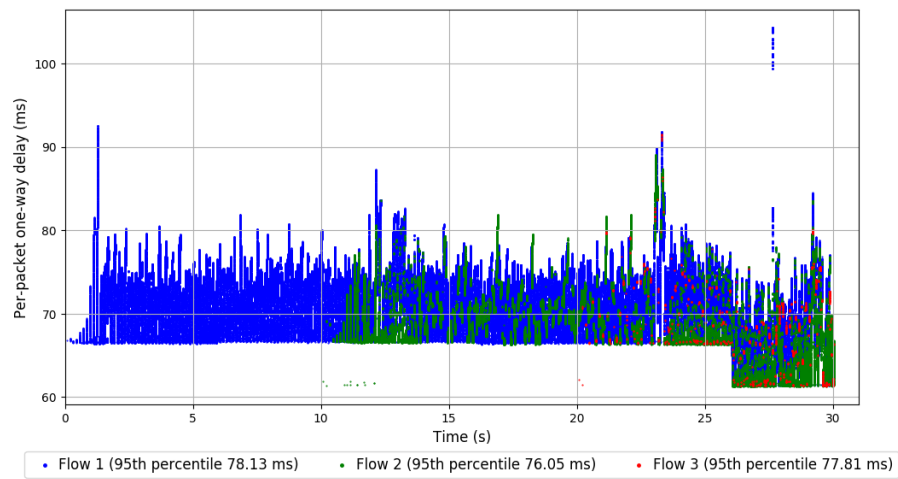
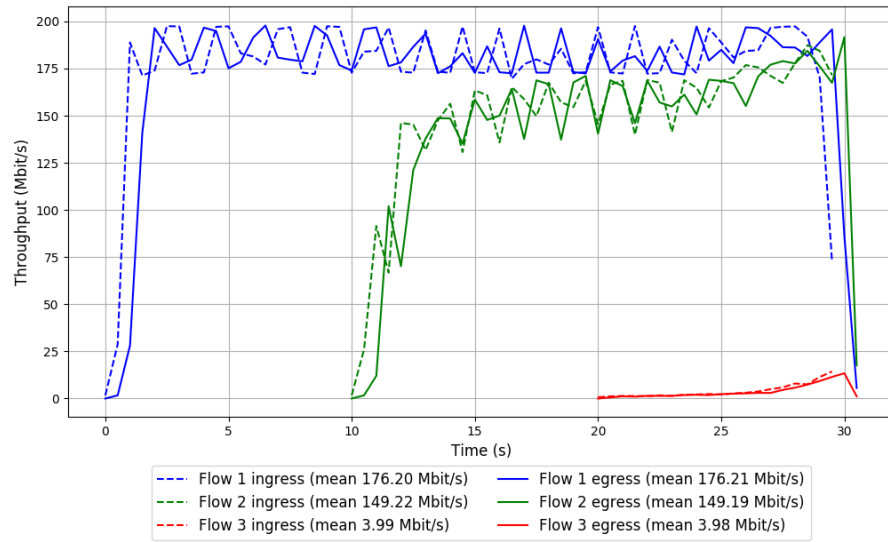


Run 5: Statistics of TCP Cubic

Start at: 2018-05-25 04:44:04
End at: 2018-05-25 04:44:34
Local clock offset: -0.01 ms
Remote clock offset: -0.083 ms

Below is generated by plot.py at 2018-05-25 07:18:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 276.81 Mbit/s
95th percentile per-packet one-way delay: 77.773 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 176.21 Mbit/s
95th percentile per-packet one-way delay: 78.128 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 149.19 Mbit/s
95th percentile per-packet one-way delay: 76.053 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.98 Mbit/s
95th percentile per-packet one-way delay: 77.811 ms
Loss rate: 0.15%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-05-25 05:06:27

End at: 2018-05-25 05:06:57

Local clock offset: 0.011 ms

Remote clock offset: 0.006 ms

Below is generated by plot.py at 2018-05-25 07:18:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 230.63 Mbit/s

95th percentile per-packet one-way delay: 117.683 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 119.53 Mbit/s

95th percentile per-packet one-way delay: 112.876 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 100.14 Mbit/s

95th percentile per-packet one-way delay: 113.857 ms

Loss rate: 0.20%

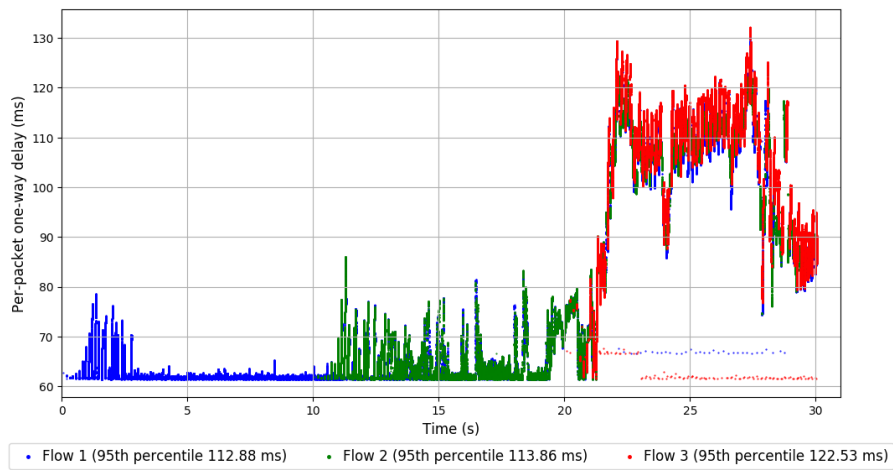
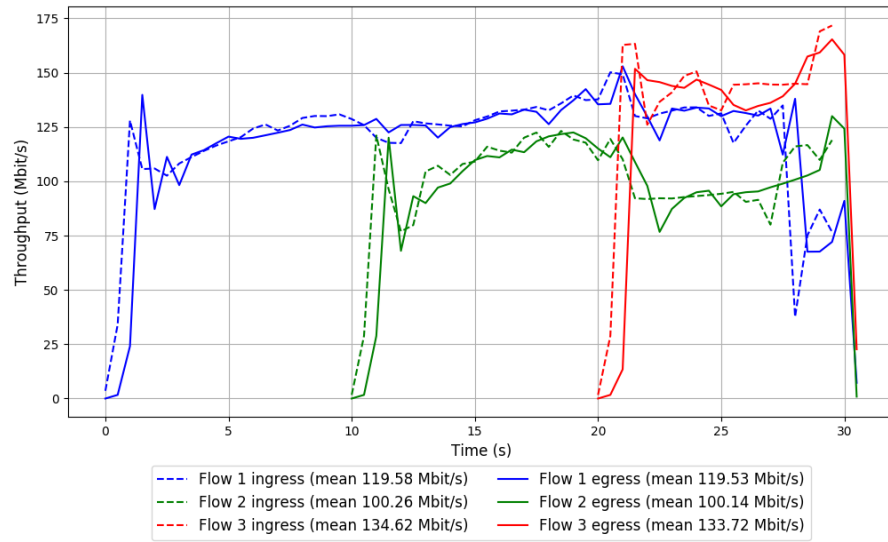
-- Flow 3:

Average throughput: 133.72 Mbit/s

95th percentile per-packet one-way delay: 122.527 ms

Loss rate: 0.57%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-05-25 05:28:43

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

Local clock offset: -0.035 ms

Remote clock offset: 0.048 ms

Below is generated by plot.py at 2018-05-25 07:19:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 247.60 Mbit/s

95th percentile per-packet one-way delay: 97.165 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 129.96 Mbit/s

95th percentile per-packet one-way delay: 98.138 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 110.64 Mbit/s

95th percentile per-packet one-way delay: 96.887 ms

Loss rate: 0.08%

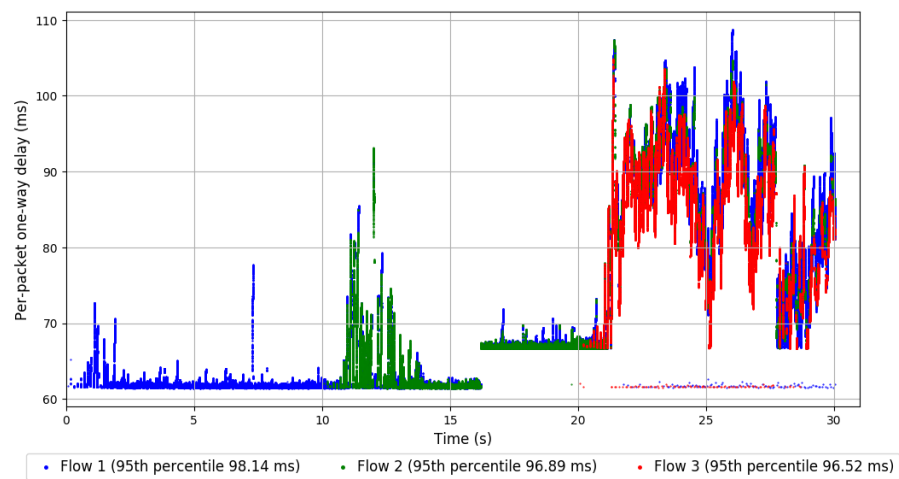
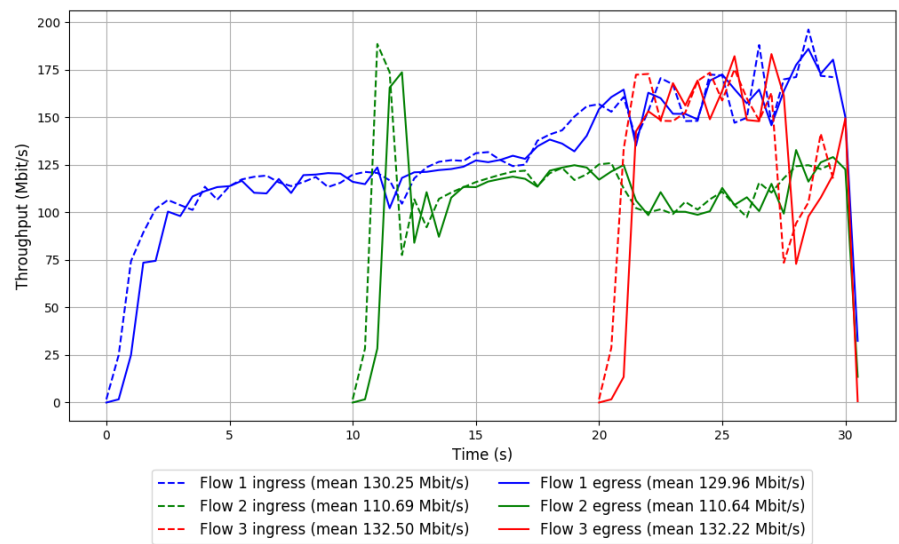
-- Flow 3:

Average throughput: 132.22 Mbit/s

95th percentile per-packet one-way delay: 96.521 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

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

End at: 2018-05-25 05:51:42

Local clock offset: -0.066 ms

Remote clock offset: 0.056 ms

Below is generated by plot.py at 2018-05-25 07:21:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 298.77 Mbit/s

95th percentile per-packet one-way delay: 116.988 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 165.66 Mbit/s

95th percentile per-packet one-way delay: 114.907 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 133.82 Mbit/s

95th percentile per-packet one-way delay: 115.327 ms

Loss rate: 0.12%

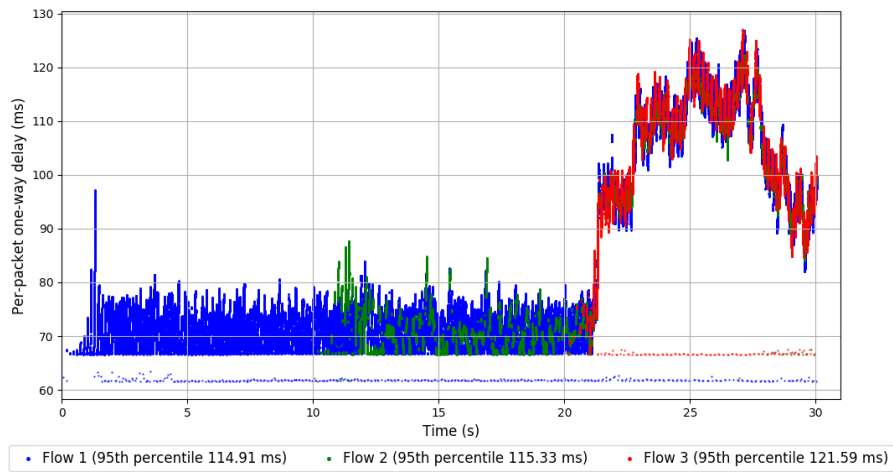
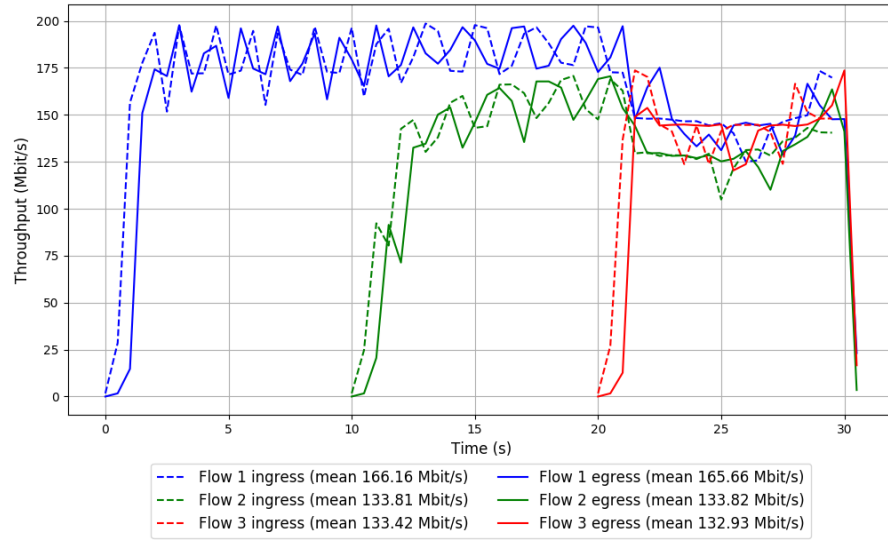
-- Flow 3:

Average throughput: 132.93 Mbit/s

95th percentile per-packet one-way delay: 121.594 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-05-25 06:13:58

End at: 2018-05-25 06:14:28

Local clock offset: -0.058 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2018-05-25 07:21:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 262.14 Mbit/s

95th percentile per-packet one-way delay: 80.082 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 162.19 Mbit/s

95th percentile per-packet one-way delay: 77.538 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 148.35 Mbit/s

95th percentile per-packet one-way delay: 83.133 ms

Loss rate: 0.00%

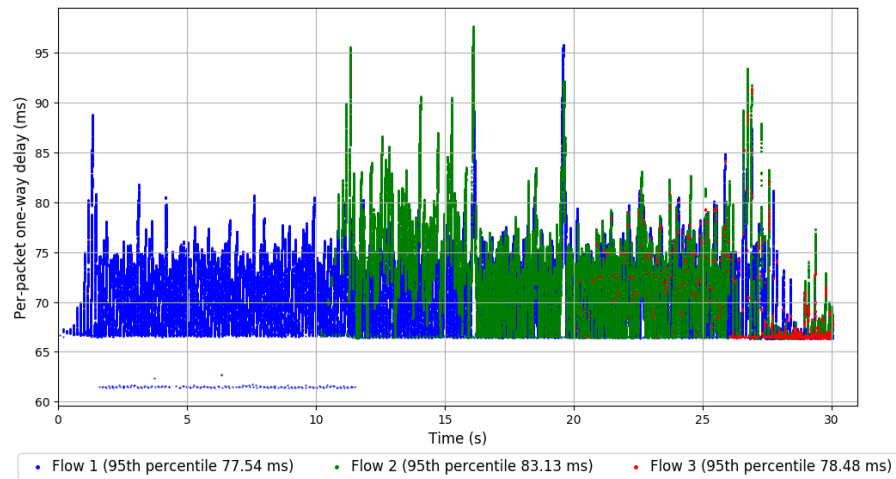
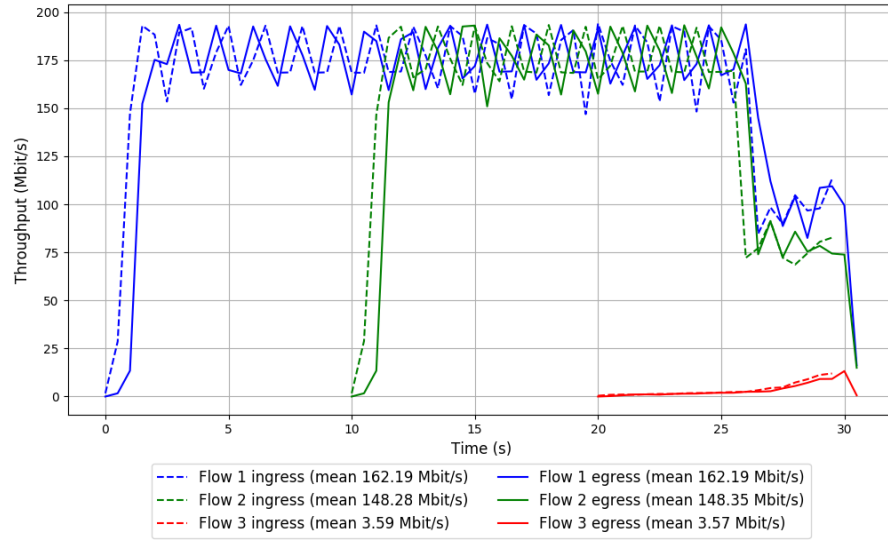
-- Flow 3:

Average throughput: 3.57 Mbit/s

95th percentile per-packet one-way delay: 78.481 ms

Loss rate: 0.94%

Run 9: Report of TCP Cubic — Data Link

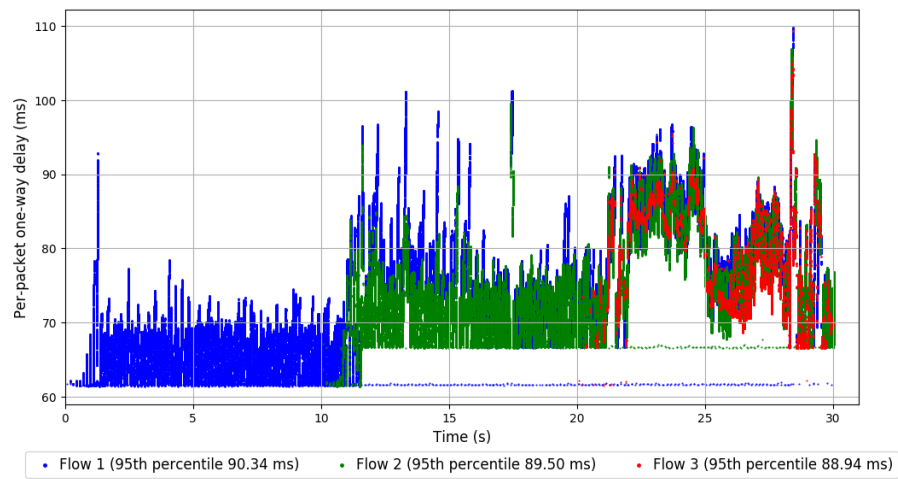
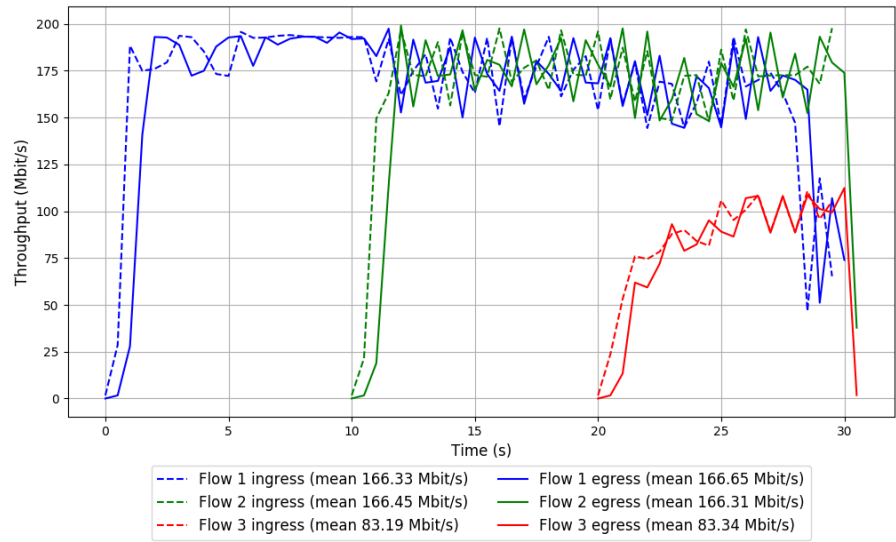


Run 10: Statistics of TCP Cubic

Start at: 2018-05-25 06:36:38
End at: 2018-05-25 06:37:08
Local clock offset: -0.091 ms
Remote clock offset: -0.102 ms

Below is generated by plot.py at 2018-05-25 07:22:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 304.66 Mbit/s
95th percentile per-packet one-way delay: 89.941 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 166.65 Mbit/s
95th percentile per-packet one-way delay: 90.342 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 166.31 Mbit/s
95th percentile per-packet one-way delay: 89.503 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 83.34 Mbit/s
95th percentile per-packet one-way delay: 88.941 ms
Loss rate: 0.09%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-05-25 03:07:18

End at: 2018-05-25 03:07:48

Local clock offset: -0.057 ms

Remote clock offset: 0.17 ms

Below is generated by plot.py at 2018-05-25 07:48:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 1280.26 Mbit/s

95th percentile per-packet one-way delay: 233.267 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 640.24 Mbit/s

95th percentile per-packet one-way delay: 240.903 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 652.22 Mbit/s

95th percentile per-packet one-way delay: 224.390 ms

Loss rate: 0.05%

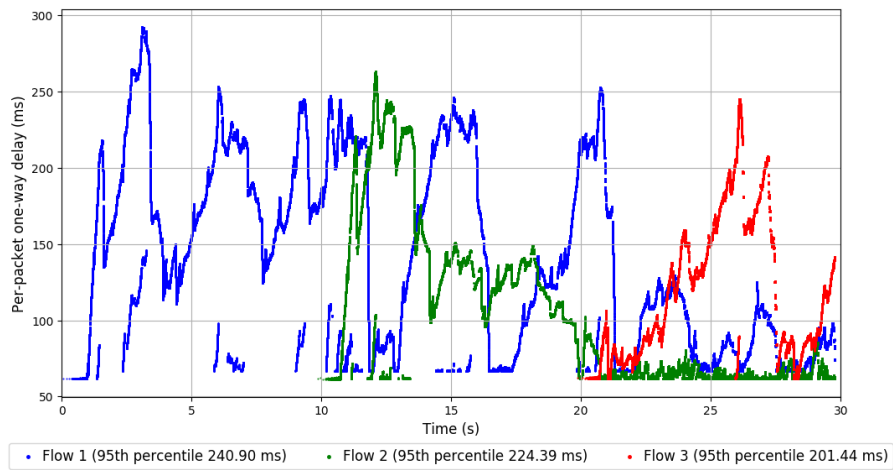
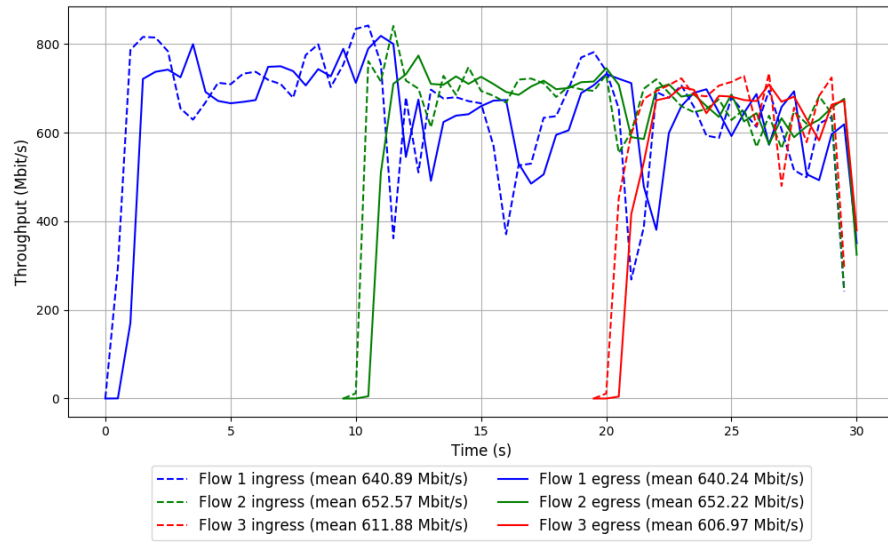
-- Flow 3:

Average throughput: 606.97 Mbit/s

95th percentile per-packet one-way delay: 201.443 ms

Loss rate: 0.80%

Run 1: Report of FillP — Data Link

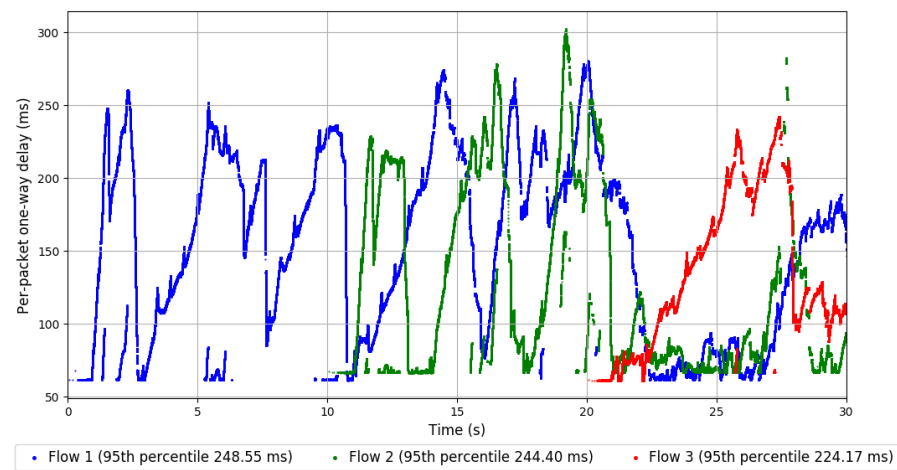
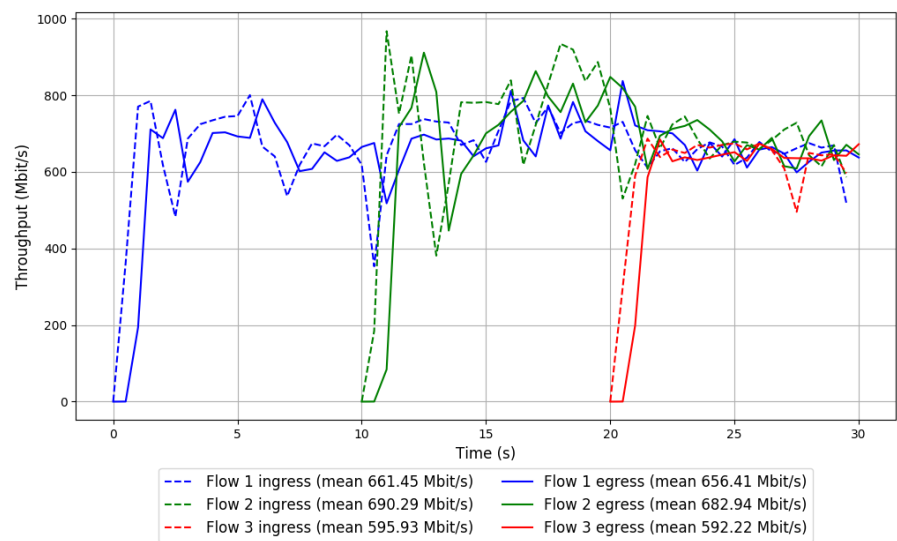


Run 2: Statistics of FillP

Start at: 2018-05-25 03:29:44
End at: 2018-05-25 03:30:14
Local clock offset: -0.046 ms
Remote clock offset: -0.167 ms

Below is generated by plot.py at 2018-05-25 07:51:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 1307.31 Mbit/s
95th percentile per-packet one-way delay: 241.742 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 656.41 Mbit/s
95th percentile per-packet one-way delay: 248.549 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 682.94 Mbit/s
95th percentile per-packet one-way delay: 244.396 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 592.22 Mbit/s
95th percentile per-packet one-way delay: 224.171 ms
Loss rate: 0.61%

Run 2: Report of FillP — Data Link

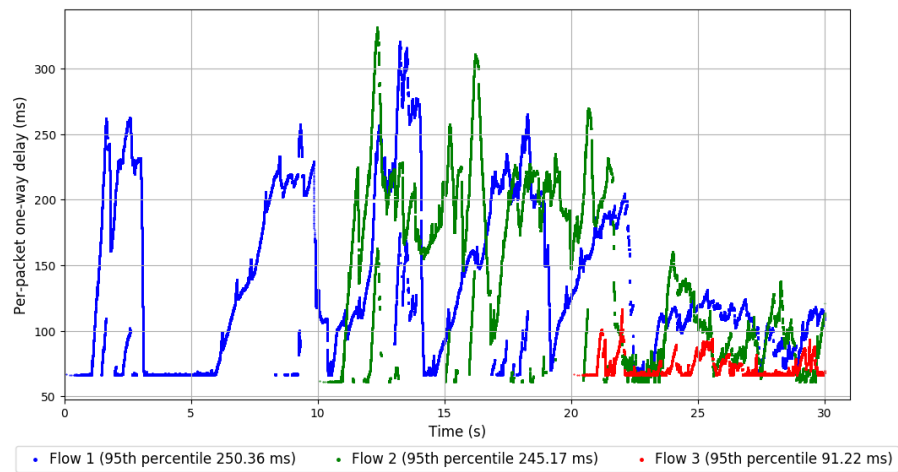
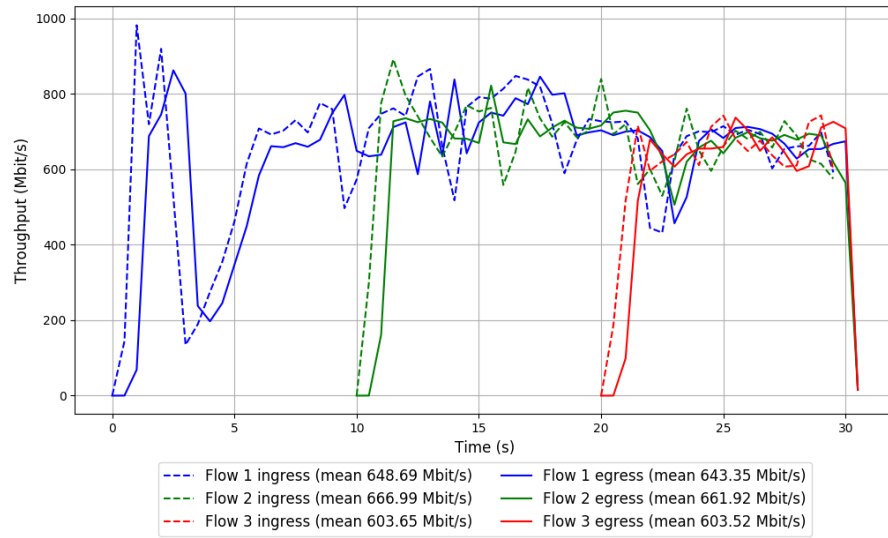


Run 3: Statistics of FillP

Start at: 2018-05-25 03:52:16
End at: 2018-05-25 03:52:46
Local clock offset: 0.016 ms
Remote clock offset: -0.102 ms

Below is generated by plot.py at 2018-05-25 07:51:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 1283.13 Mbit/s
95th percentile per-packet one-way delay: 242.104 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 643.35 Mbit/s
95th percentile per-packet one-way delay: 250.364 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 661.92 Mbit/s
95th percentile per-packet one-way delay: 245.173 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 603.52 Mbit/s
95th percentile per-packet one-way delay: 91.224 ms
Loss rate: 0.03%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-05-25 04:14:47

End at: 2018-05-25 04:15:17

Local clock offset: -0.014 ms

Remote clock offset: -0.01 ms

Below is generated by plot.py at 2018-05-25 07:51:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 1281.62 Mbit/s

95th percentile per-packet one-way delay: 240.188 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 648.86 Mbit/s

95th percentile per-packet one-way delay: 254.882 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 652.04 Mbit/s

95th percentile per-packet one-way delay: 236.206 ms

Loss rate: 0.52%

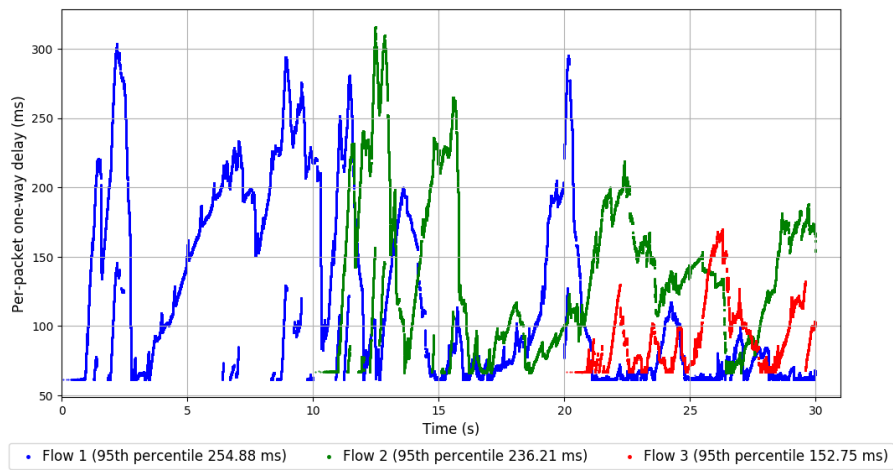
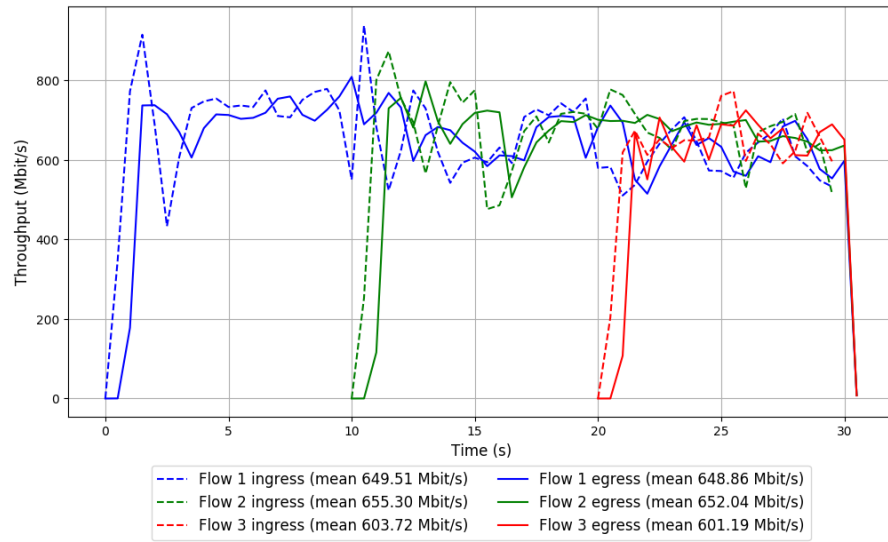
-- Flow 3:

Average throughput: 601.19 Mbit/s

95th percentile per-packet one-way delay: 152.752 ms

Loss rate: 0.46%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-05-25 04:37:21

End at: 2018-05-25 04:37:51

Local clock offset: -0.057 ms

Remote clock offset: 0.007 ms

Below is generated by plot.py at 2018-05-25 07:53:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 1341.35 Mbit/s

95th percentile per-packet one-way delay: 260.286 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 739.28 Mbit/s

95th percentile per-packet one-way delay: 257.518 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 620.80 Mbit/s

95th percentile per-packet one-way delay: 276.995 ms

Loss rate: 0.50%

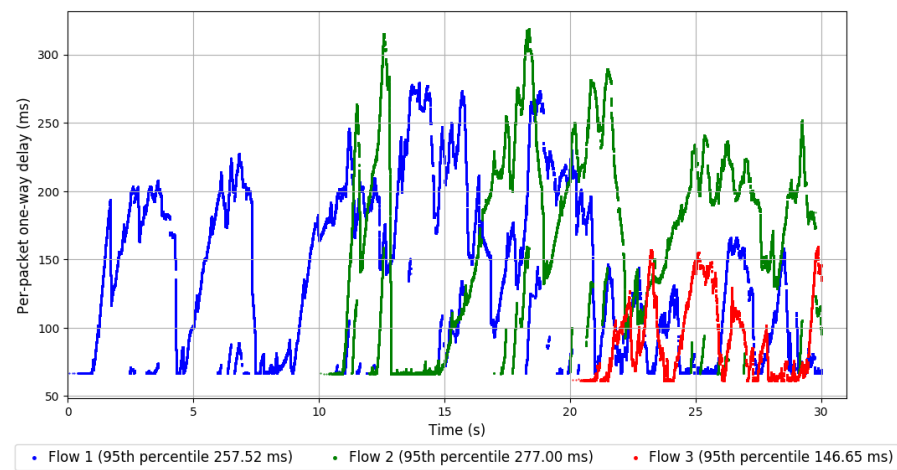
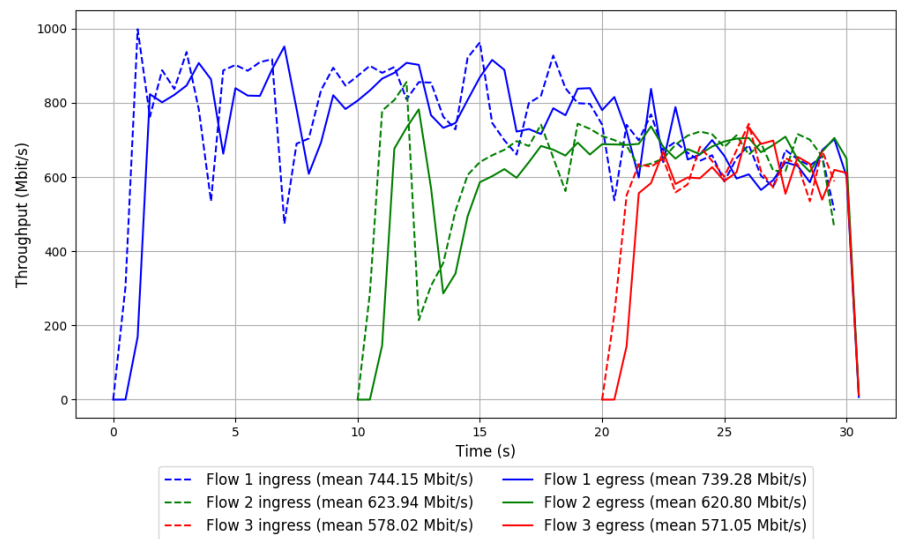
-- Flow 3:

Average throughput: 571.05 Mbit/s

95th percentile per-packet one-way delay: 146.647 ms

Loss rate: 1.15%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-05-25 04:59:48

End at: 2018-05-25 05:00:18

Local clock offset: 0.027 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2018-05-25 07:54:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 1338.74 Mbit/s

95th percentile per-packet one-way delay: 232.715 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 684.32 Mbit/s

95th percentile per-packet one-way delay: 254.878 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 679.32 Mbit/s

95th percentile per-packet one-way delay: 209.337 ms

Loss rate: 0.14%

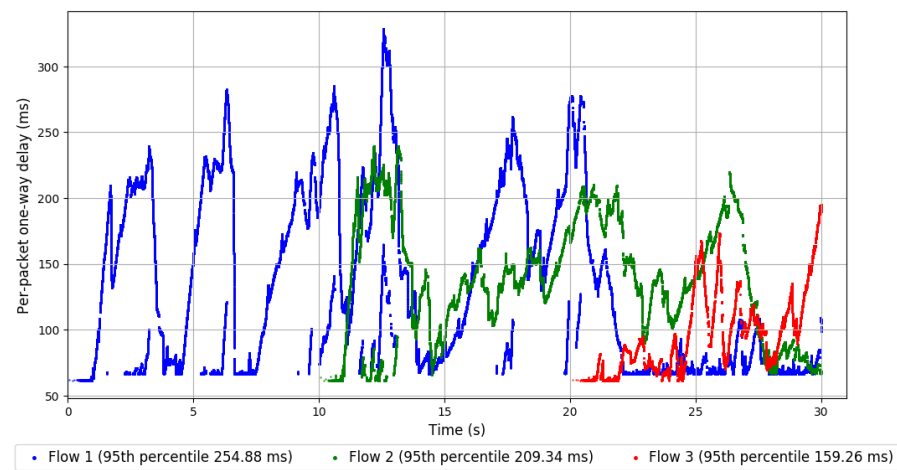
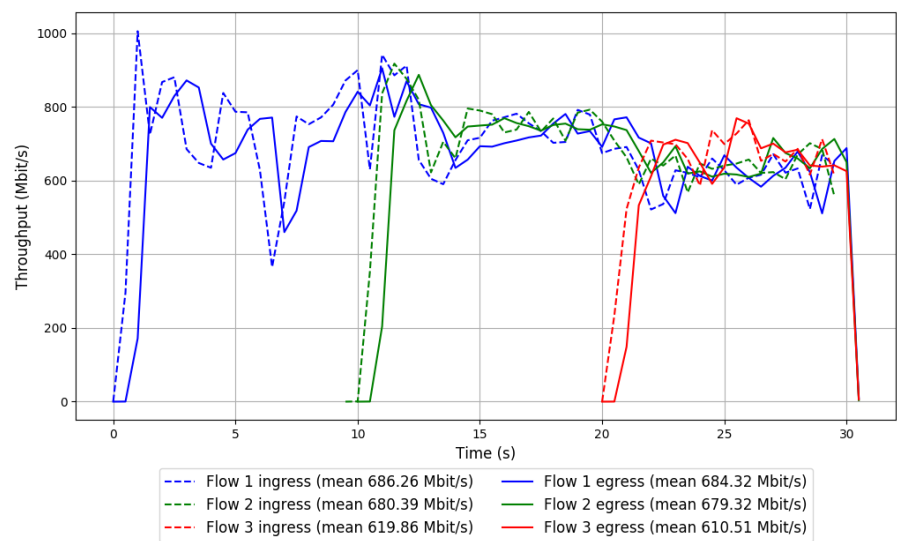
-- Flow 3:

Average throughput: 610.51 Mbit/s

95th percentile per-packet one-way delay: 159.260 ms

Loss rate: 1.45%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-05-25 05:22:14

End at: 2018-05-25 05:22:44

Local clock offset: -0.032 ms

Remote clock offset: -0.13 ms

Below is generated by plot.py at 2018-05-25 07:54:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 1178.95 Mbit/s

95th percentile per-packet one-way delay: 254.184 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 630.88 Mbit/s

95th percentile per-packet one-way delay: 267.363 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 524.57 Mbit/s

95th percentile per-packet one-way delay: 227.680 ms

Loss rate: 0.35%

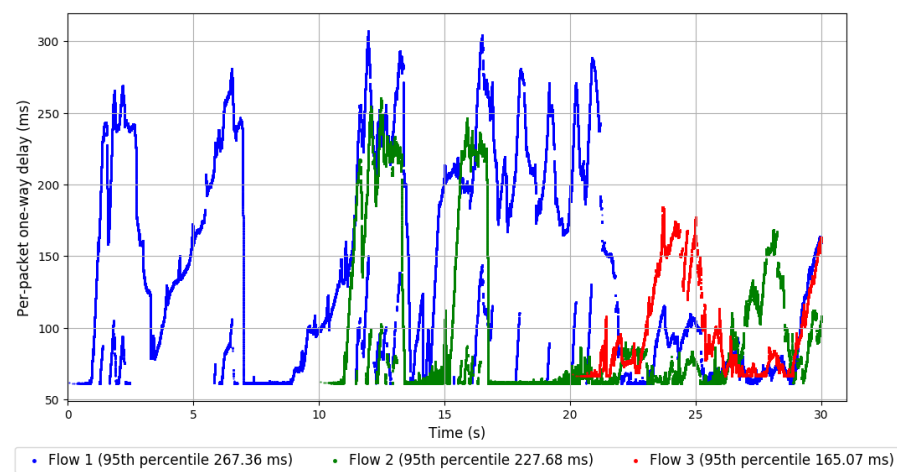
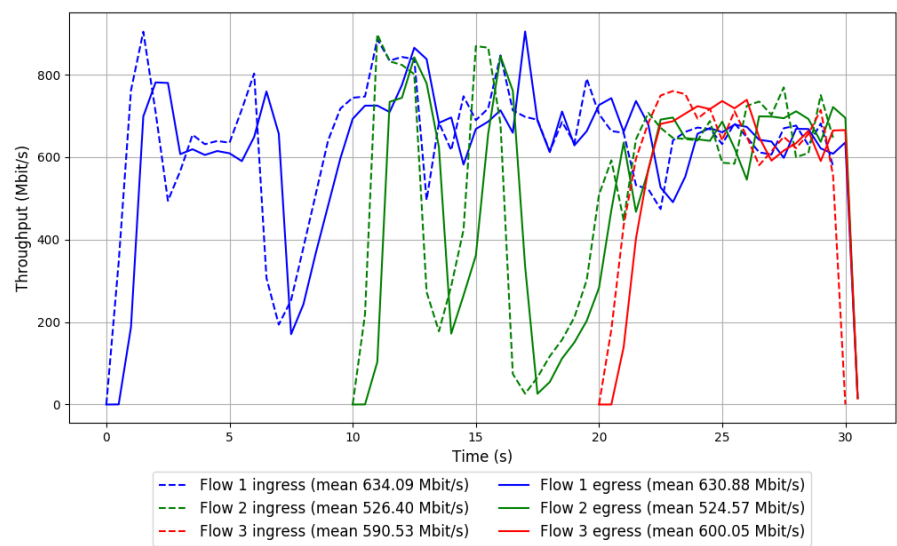
-- Flow 3:

Average throughput: 600.05 Mbit/s

95th percentile per-packet one-way delay: 165.075 ms

Loss rate: 0.45%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-05-25 05:44:33

End at: 2018-05-25 05:45:03

Local clock offset: -0.069 ms

Remote clock offset: 0.12 ms

Below is generated by plot.py at 2018-05-25 07:55:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 1269.38 Mbit/s

95th percentile per-packet one-way delay: 263.535 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 671.94 Mbit/s

95th percentile per-packet one-way delay: 252.413 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 625.71 Mbit/s

95th percentile per-packet one-way delay: 283.998 ms

Loss rate: 1.10%

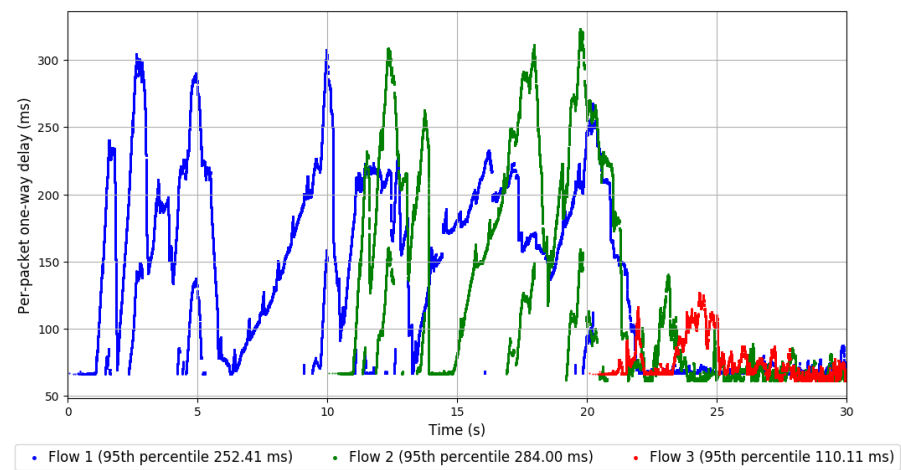
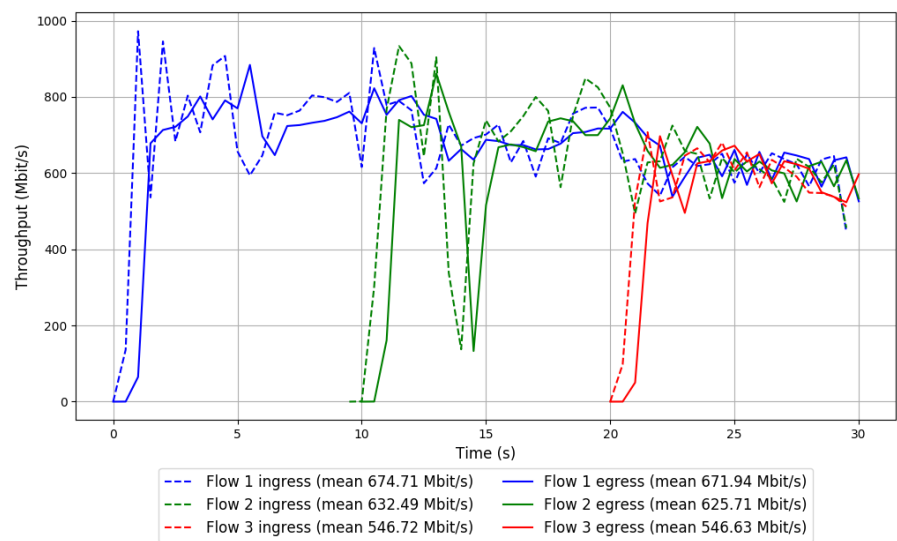
-- Flow 3:

Average throughput: 546.63 Mbit/s

95th percentile per-packet one-way delay: 110.109 ms

Loss rate: 0.06%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-05-25 06:07:19

End at: 2018-05-25 06:07:49

Local clock offset: -0.061 ms

Remote clock offset: 0.225 ms

Below is generated by plot.py at 2018-05-25 08:22:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 1222.58 Mbit/s

95th percentile per-packet one-way delay: 245.906 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 630.63 Mbit/s

95th percentile per-packet one-way delay: 273.784 ms

Loss rate: 2.06%

-- Flow 2:

Average throughput: 606.86 Mbit/s

95th percentile per-packet one-way delay: 237.915 ms

Loss rate: 0.39%

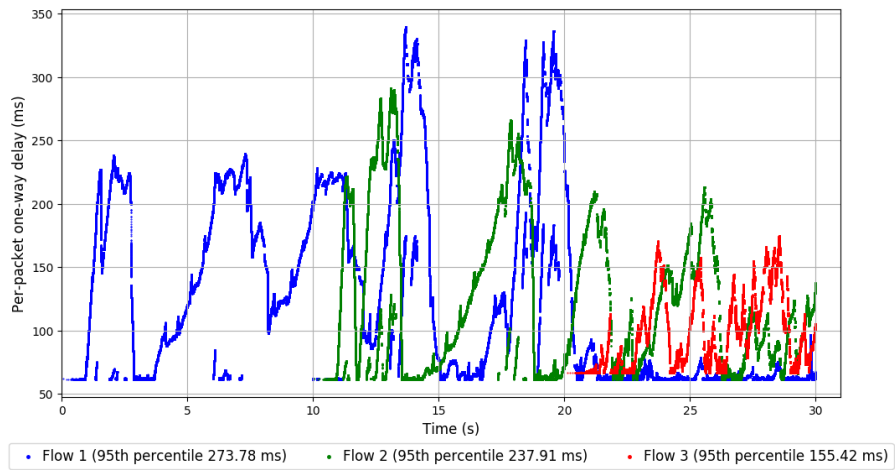
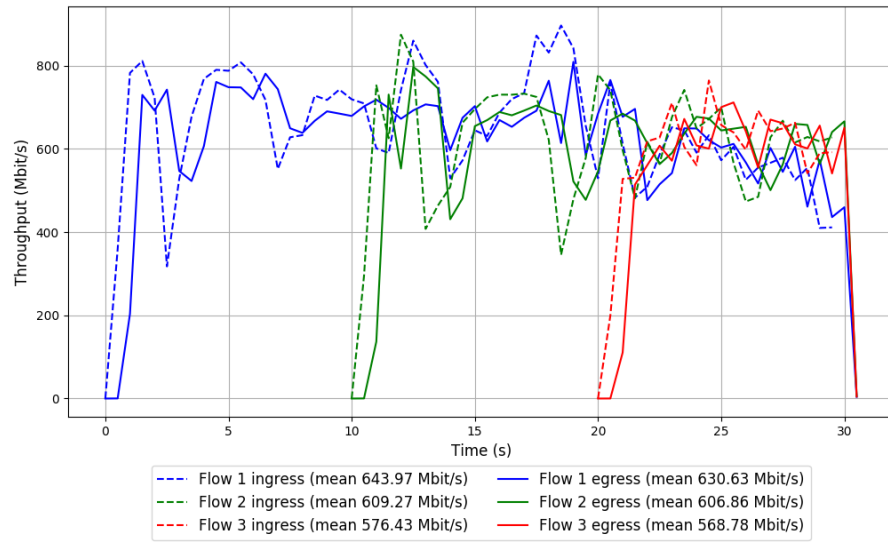
-- Flow 3:

Average throughput: 568.78 Mbit/s

95th percentile per-packet one-way delay: 155.420 ms

Loss rate: 1.38%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-05-25 06:30:05

End at: 2018-05-25 06:30:35

Local clock offset: -0.089 ms

Remote clock offset: 0.068 ms

Below is generated by plot.py at 2018-05-25 08:25:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 1323.73 Mbit/s

95th percentile per-packet one-way delay: 254.602 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 689.55 Mbit/s

95th percentile per-packet one-way delay: 266.473 ms

Loss rate: 1.33%

-- Flow 2:

Average throughput: 655.84 Mbit/s

95th percentile per-packet one-way delay: 249.934 ms

Loss rate: 0.39%

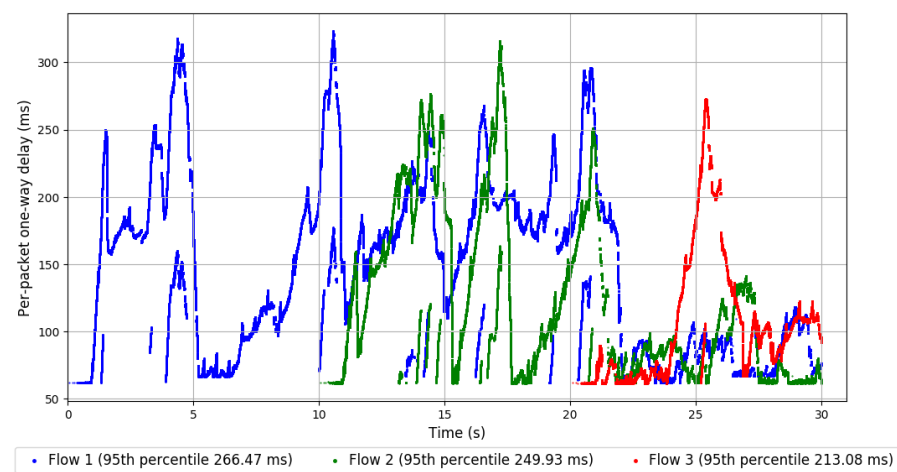
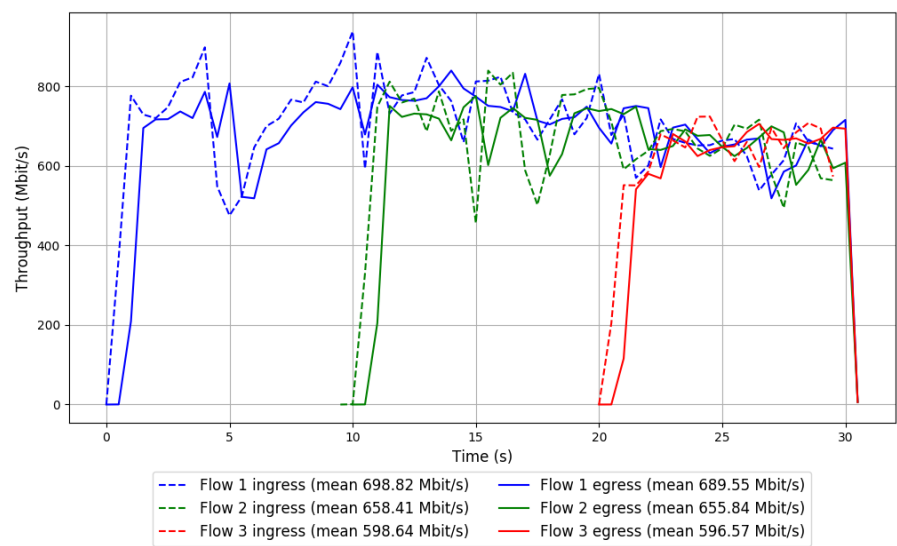
-- Flow 3:

Average throughput: 596.57 Mbit/s

95th percentile per-packet one-way delay: 213.083 ms

Loss rate: 0.36%

Run 10: Report of FillP — Data Link

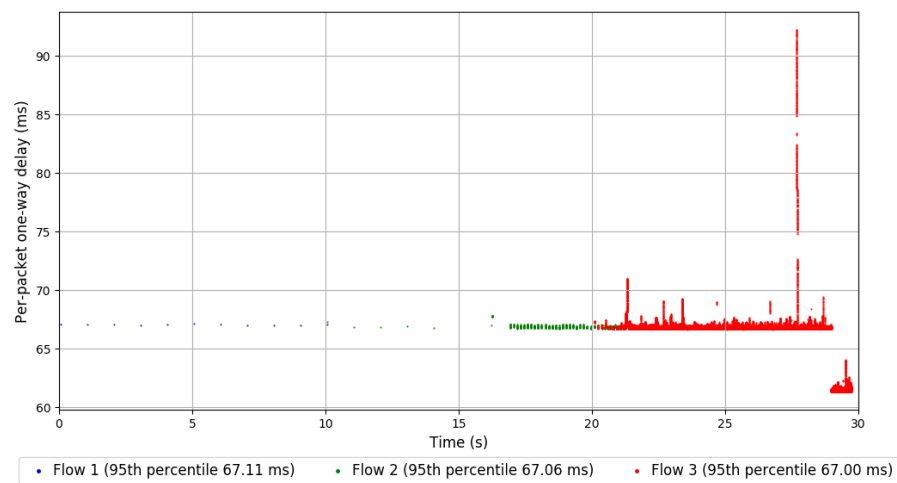
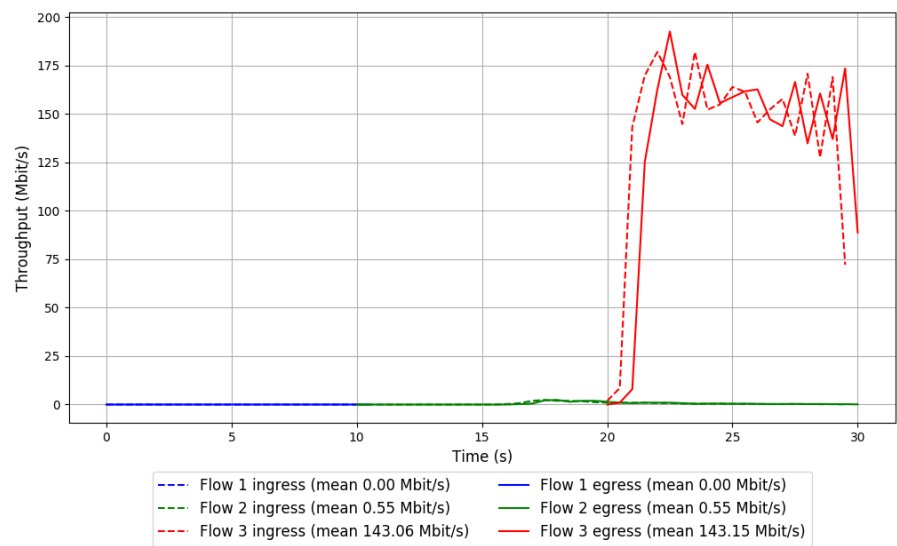


```
Run 1: Statistics of Indigo

Start at: 2018-05-25 03:09:20
End at: 2018-05-25 03:09:50
Local clock offset: -0.053 ms
Remote clock offset: 0.169 ms

# Below is generated by plot.py at 2018-05-25 08:25:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 46.99 Mbit/s
95th percentile per-packet one-way delay: 67.008 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 67.105 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 67.065 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 143.15 Mbit/s
95th percentile per-packet one-way delay: 67.005 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo — Data Link

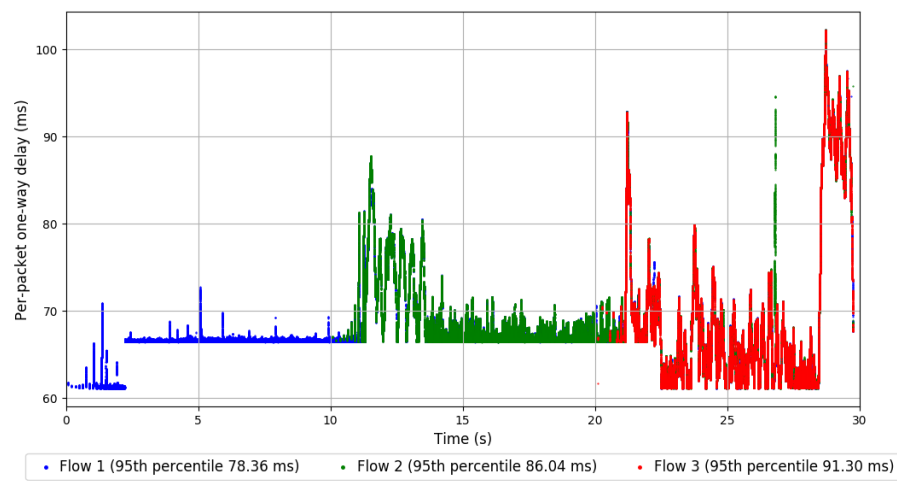
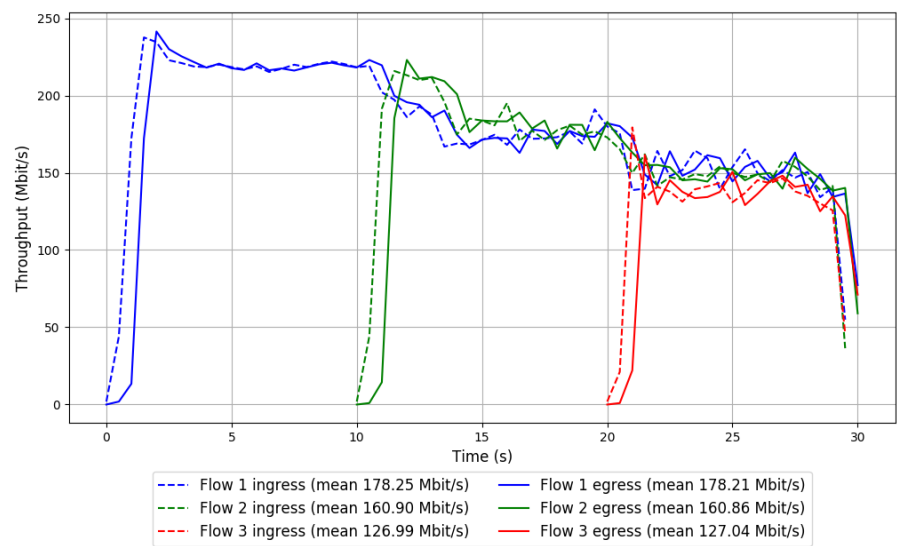


Run 2: Statistics of Indigo

Start at: 2018-05-25 03:31:47
End at: 2018-05-25 03:32:17
Local clock offset: -0.006 ms
Remote clock offset: -0.096 ms

Below is generated by plot.py at 2018-05-25 08:25:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 325.99 Mbit/s
95th percentile per-packet one-way delay: 85.343 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 178.21 Mbit/s
95th percentile per-packet one-way delay: 78.360 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 160.86 Mbit/s
95th percentile per-packet one-way delay: 86.036 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 127.04 Mbit/s
95th percentile per-packet one-way delay: 91.302 ms
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

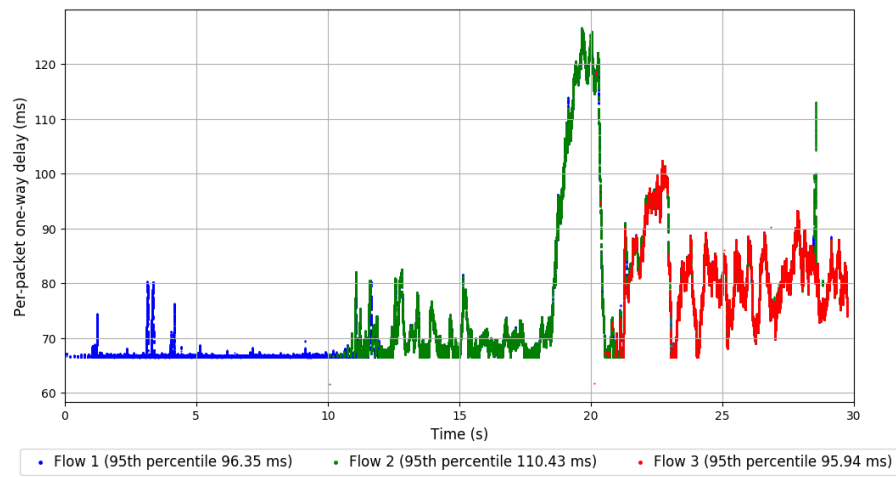
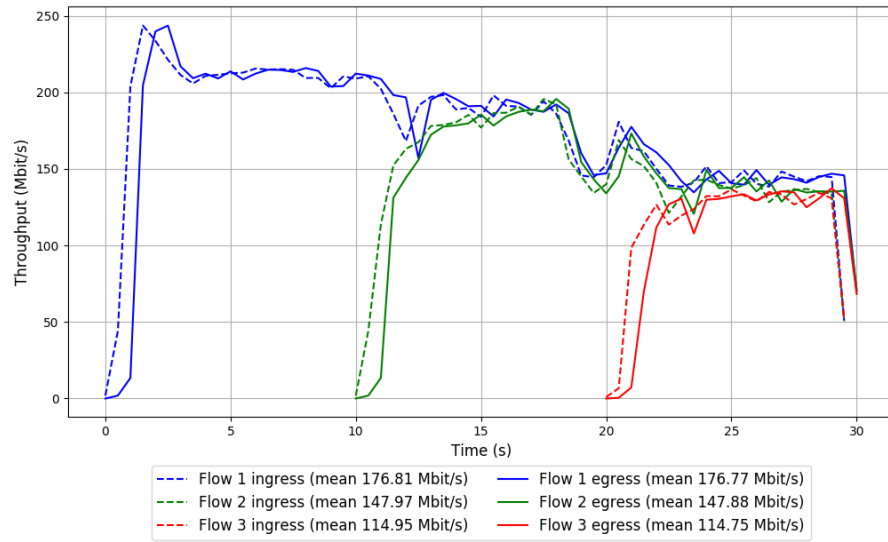


Run 3: Statistics of Indigo

Start at: 2018-05-25 03:54:20
End at: 2018-05-25 03:54:50
Local clock offset: 0.071 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2018-05-25 08:25:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 311.99 Mbit/s
95th percentile per-packet one-way delay: 98.906 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 176.77 Mbit/s
95th percentile per-packet one-way delay: 96.349 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 147.88 Mbit/s
95th percentile per-packet one-way delay: 110.434 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 114.75 Mbit/s
95th percentile per-packet one-way delay: 95.940 ms
Loss rate: 0.11%

Run 3: Report of Indigo — Data Link

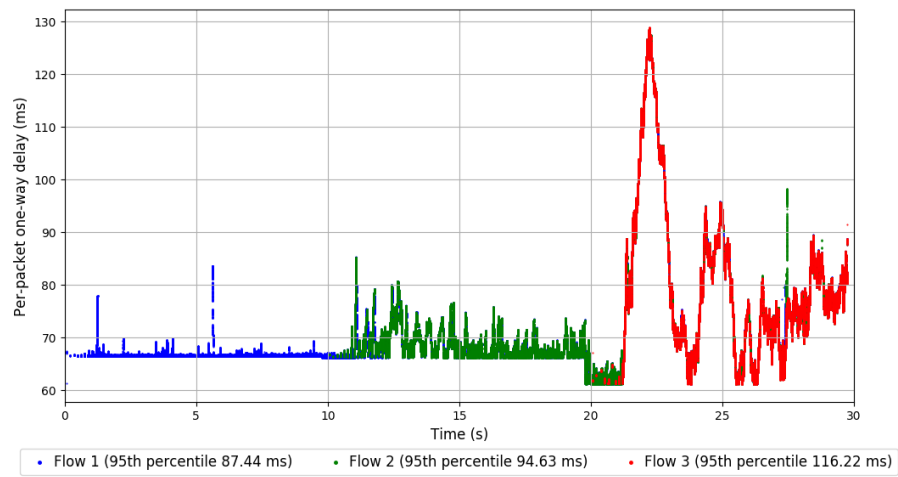
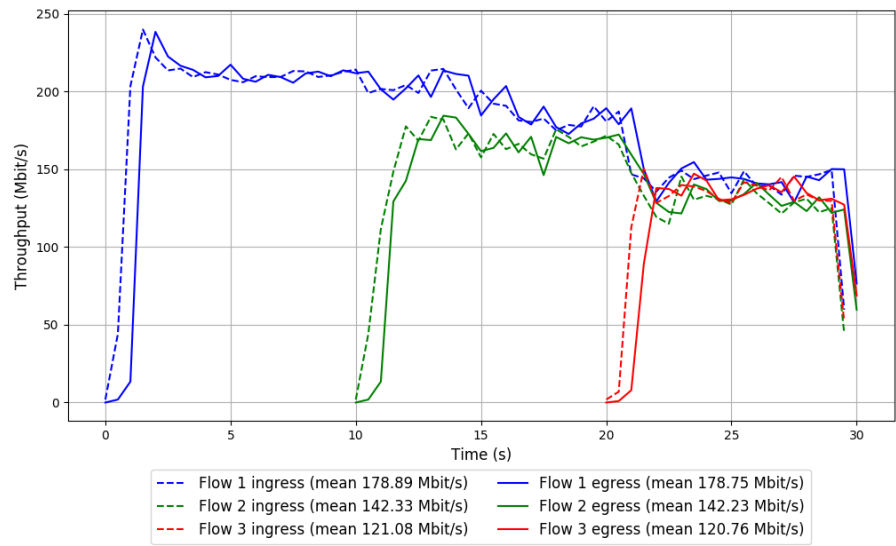


Run 4: Statistics of Indigo

Start at: 2018-05-25 04:16:49
End at: 2018-05-25 04:17:19
Local clock offset: -0.074 ms
Remote clock offset: -0.245 ms

Below is generated by plot.py at 2018-05-25 08:25:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 312.40 Mbit/s
95th percentile per-packet one-way delay: 94.520 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 178.75 Mbit/s
95th percentile per-packet one-way delay: 87.435 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 142.23 Mbit/s
95th percentile per-packet one-way delay: 94.632 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 120.76 Mbit/s
95th percentile per-packet one-way delay: 116.217 ms
Loss rate: 0.22%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-05-25 04:39:29

End at: 2018-05-25 04:39:59

Local clock offset: -0.066 ms

Remote clock offset: 0.389 ms

Below is generated by plot.py at 2018-05-25 08:25:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 315.24 Mbit/s

95th percentile per-packet one-way delay: 101.043 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 185.05 Mbit/s

95th percentile per-packet one-way delay: 92.259 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 158.14 Mbit/s

95th percentile per-packet one-way delay: 102.445 ms

Loss rate: 0.00%

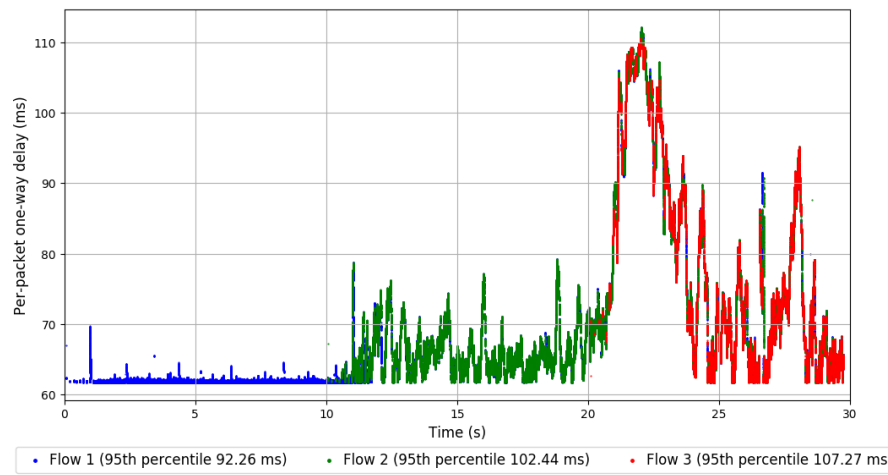
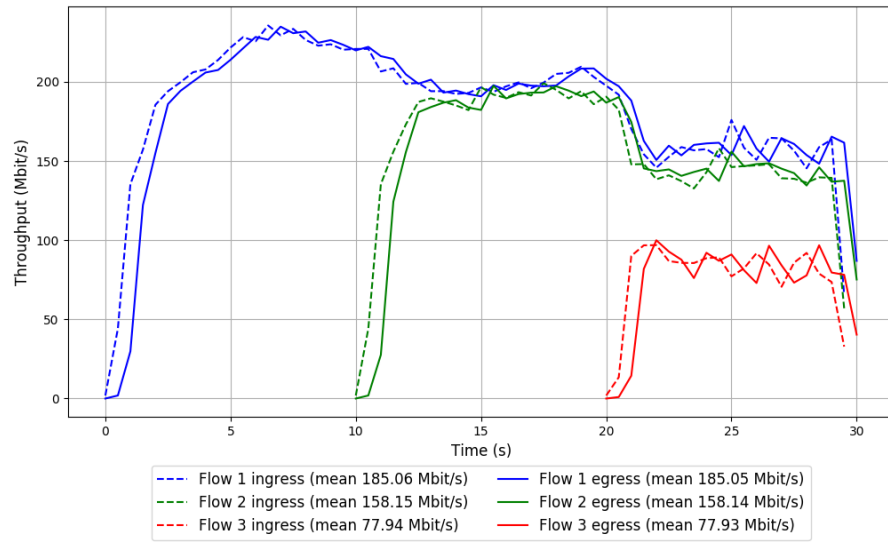
-- Flow 3:

Average throughput: 77.93 Mbit/s

95th percentile per-packet one-way delay: 107.267 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-05-25 05:01:55

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

Local clock offset: 0.027 ms

Remote clock offset: 0.086 ms

Below is generated by plot.py at 2018-05-25 08:25:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 323.76 Mbit/s

95th percentile per-packet one-way delay: 106.463 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 180.27 Mbit/s

95th percentile per-packet one-way delay: 101.113 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 175.98 Mbit/s

95th percentile per-packet one-way delay: 107.702 ms

Loss rate: 0.00%

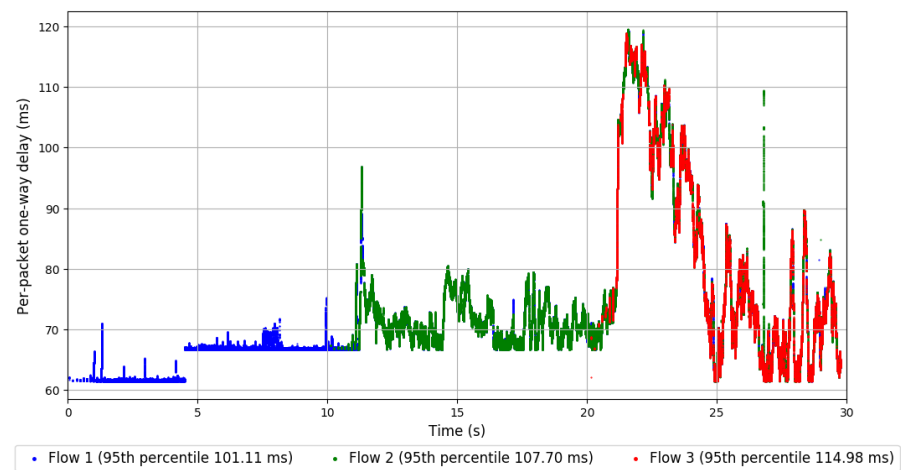
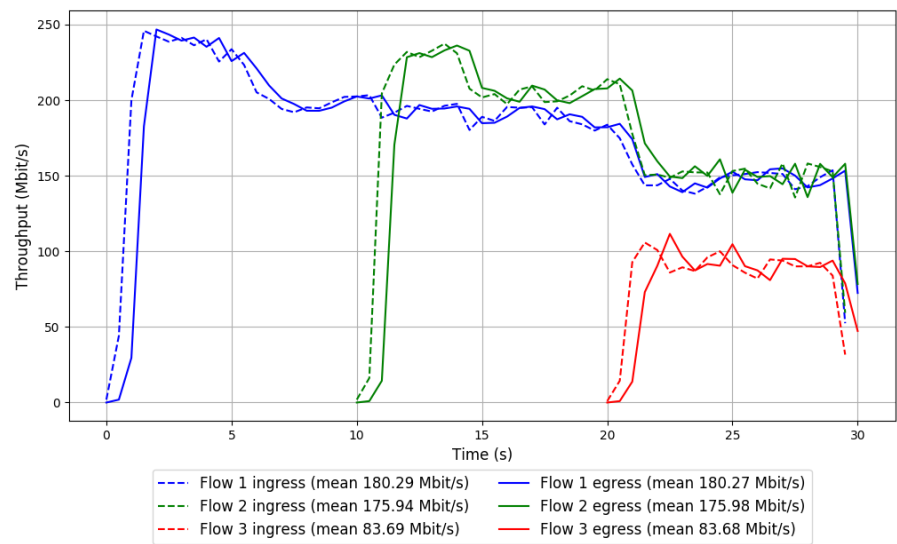
-- Flow 3:

Average throughput: 83.68 Mbit/s

95th percentile per-packet one-way delay: 114.984 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link

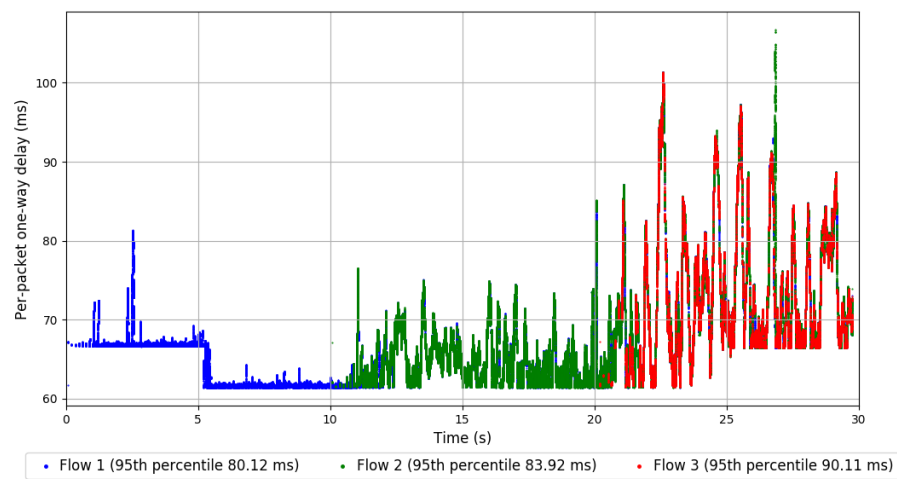
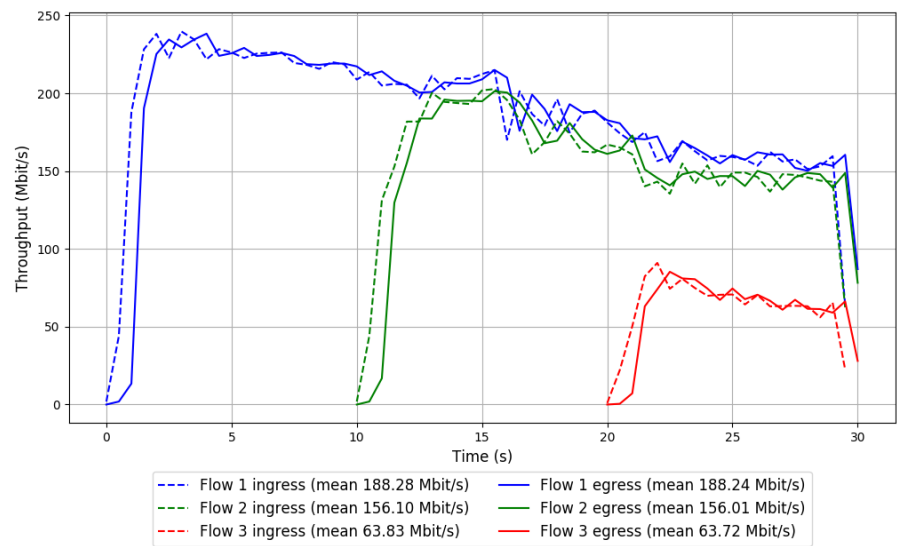


Run 7: Statistics of Indigo

Start at: 2018-05-25 05:24:14
End at: 2018-05-25 05:24:44
Local clock offset: -0.079 ms
Remote clock offset: -0.032 ms

Below is generated by plot.py at 2018-05-25 08:25:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 312.09 Mbit/s
95th percentile per-packet one-way delay: 82.726 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 188.24 Mbit/s
95th percentile per-packet one-way delay: 80.125 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 156.01 Mbit/s
95th percentile per-packet one-way delay: 83.915 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 63.72 Mbit/s
95th percentile per-packet one-way delay: 90.115 ms
Loss rate: 0.16%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-05-25 05:46:36

End at: 2018-05-25 05:47:06

Local clock offset: -0.084 ms

Remote clock offset: 0.08 ms

Below is generated by plot.py at 2018-05-25 08:25:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 330.62 Mbit/s

95th percentile per-packet one-way delay: 100.329 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 184.65 Mbit/s

95th percentile per-packet one-way delay: 97.812 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 160.22 Mbit/s

95th percentile per-packet one-way delay: 100.373 ms

Loss rate: 0.04%

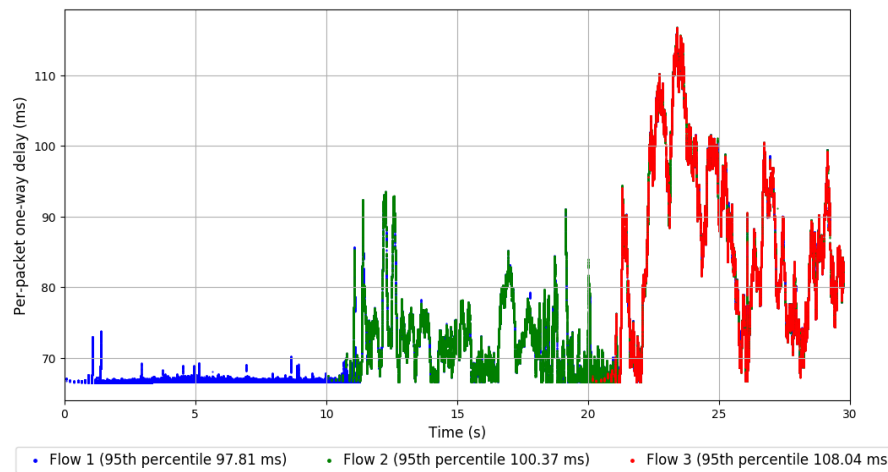
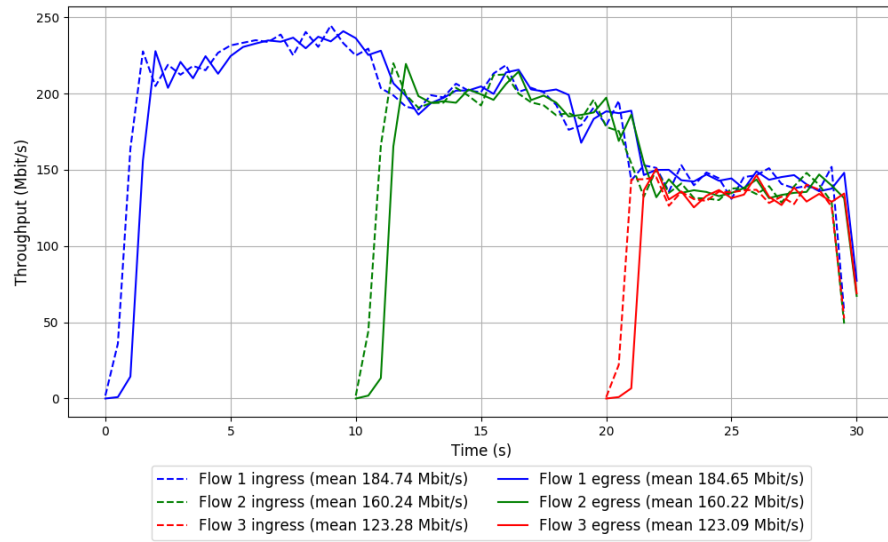
-- Flow 3:

Average throughput: 123.09 Mbit/s

95th percentile per-packet one-way delay: 108.044 ms

Loss rate: 0.20%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-05-25 06:09:21

End at: 2018-05-25 06:09:51

Local clock offset: -0.08 ms

Remote clock offset: 0.093 ms

Below is generated by plot.py at 2018-05-25 08:25:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 326.96 Mbit/s

95th percentile per-packet one-way delay: 97.834 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 178.94 Mbit/s

95th percentile per-packet one-way delay: 95.796 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 174.91 Mbit/s

95th percentile per-packet one-way delay: 98.153 ms

Loss rate: 0.01%

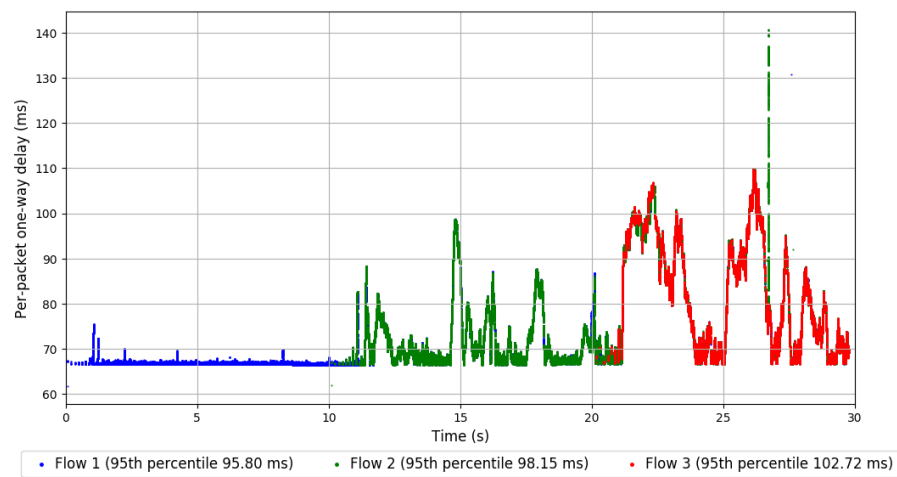
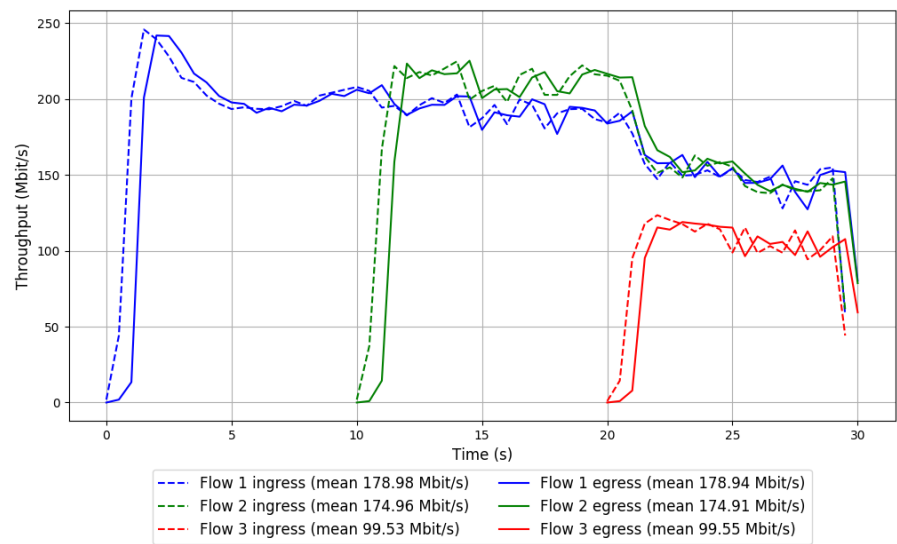
-- Flow 3:

Average throughput: 99.55 Mbit/s

95th percentile per-packet one-way delay: 102.720 ms

Loss rate: 0.02%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-05-25 06:32:10

End at: 2018-05-25 06:32:40

Local clock offset: -0.068 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2018-05-25 08:25:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.80 Mbit/s

95th percentile per-packet one-way delay: 97.402 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 184.96 Mbit/s

95th percentile per-packet one-way delay: 90.049 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 167.62 Mbit/s

95th percentile per-packet one-way delay: 98.563 ms

Loss rate: 0.05%

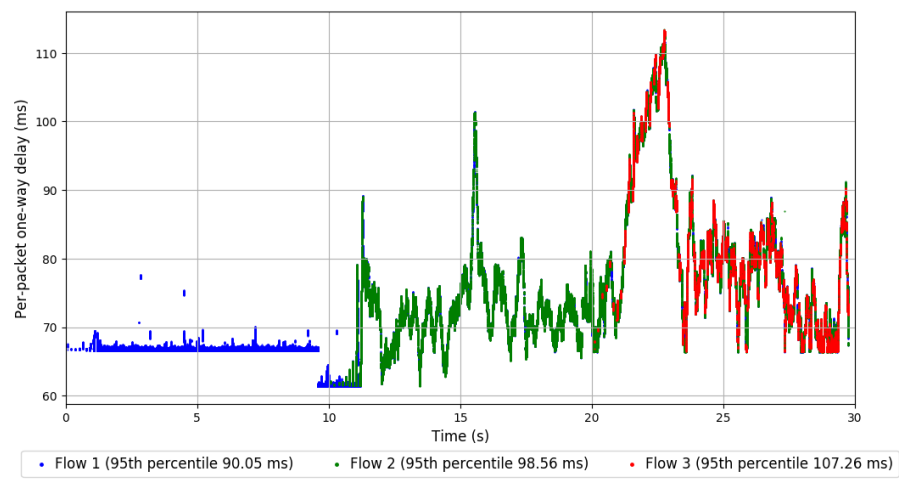
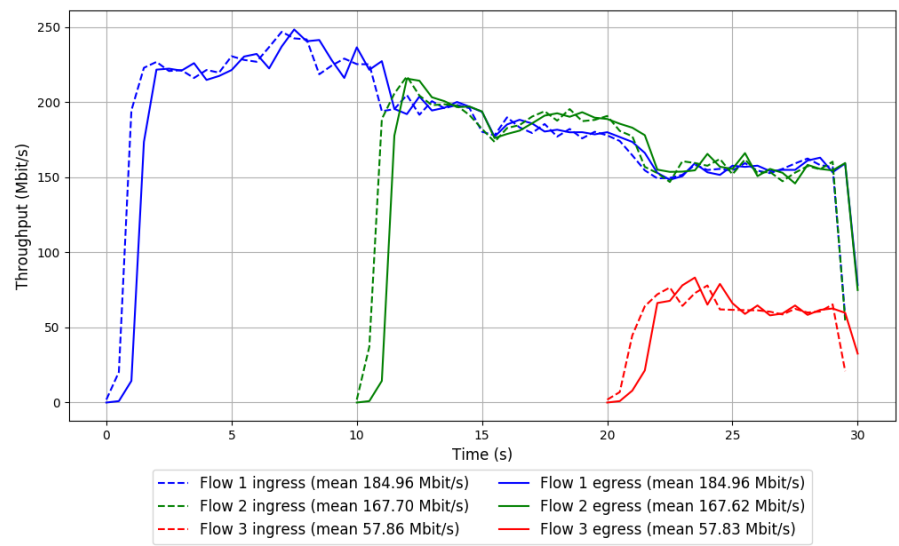
-- Flow 3:

Average throughput: 57.83 Mbit/s

95th percentile per-packet one-way delay: 107.263 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

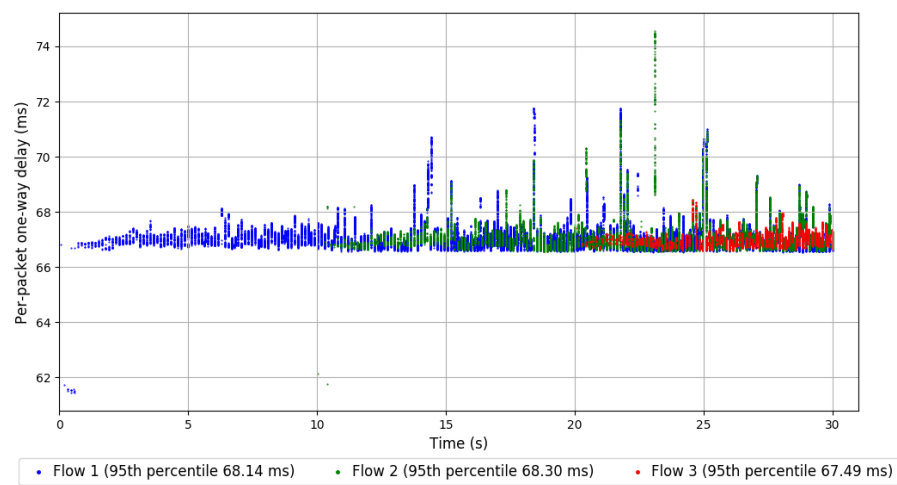
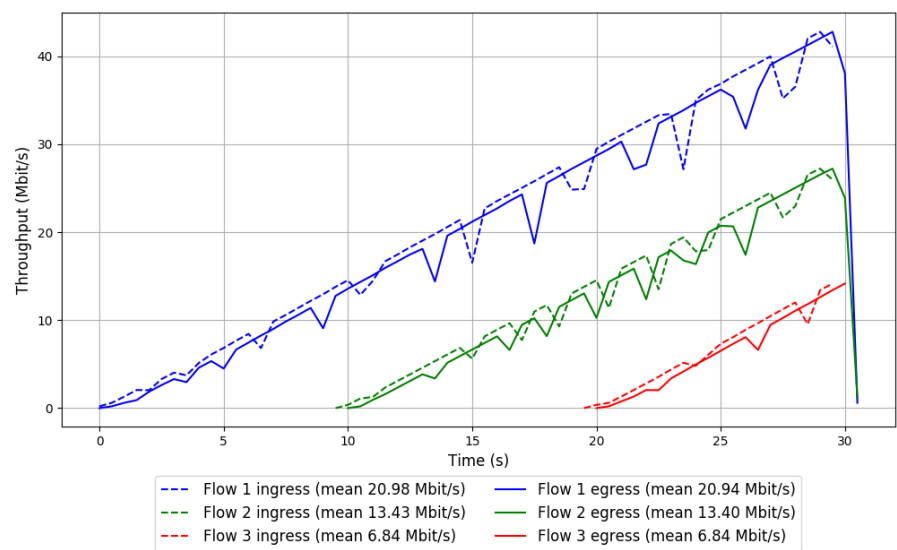


```
Run 1: Statistics of LEDBAT

Start at: 2018-05-25 03:04:39
End at: 2018-05-25 03:05:09
Local clock offset: -0.046 ms
Remote clock offset: 0.049 ms

# Below is generated by plot.py at 2018-05-25 08:25:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 32.16 Mbit/s
95th percentile per-packet one-way delay: 68.115 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 20.94 Mbit/s
95th percentile per-packet one-way delay: 68.143 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 13.40 Mbit/s
95th percentile per-packet one-way delay: 68.298 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 6.84 Mbit/s
95th percentile per-packet one-way delay: 67.487 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

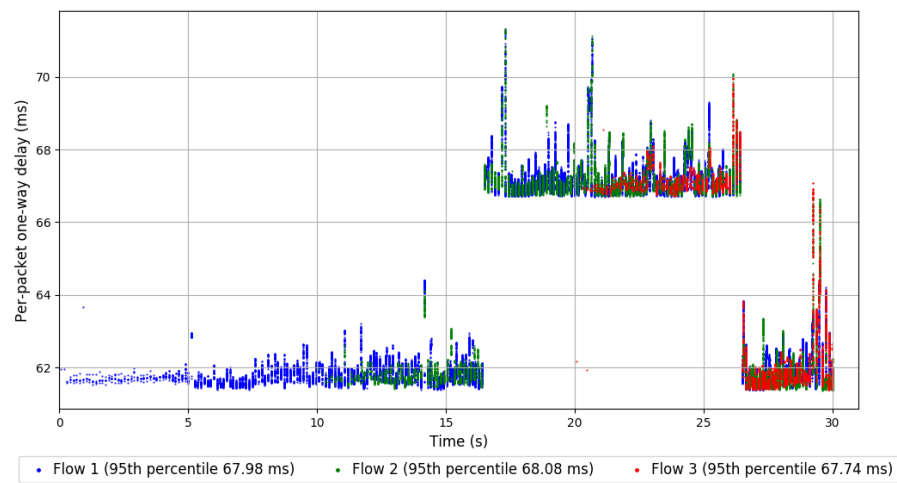
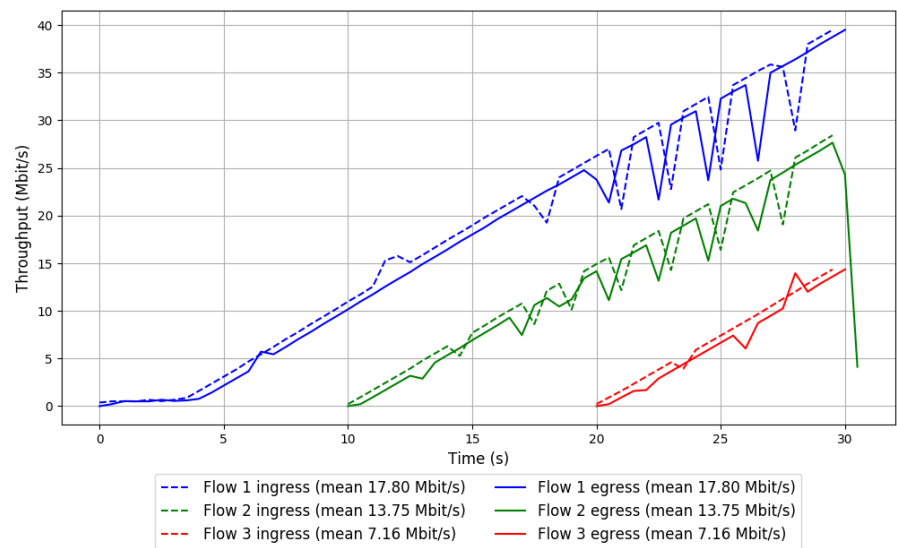


```
Run 2: Statistics of LEDBAT

Start at: 2018-05-25 03:27:03
End at: 2018-05-25 03:27:33
Local clock offset: -0.059 ms
Remote clock offset: 0.185 ms

# Below is generated by plot.py at 2018-05-25 08:25:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 29.31 Mbit/s
95th percentile per-packet one-way delay: 67.998 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 17.80 Mbit/s
95th percentile per-packet one-way delay: 67.983 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.75 Mbit/s
95th percentile per-packet one-way delay: 68.077 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.16 Mbit/s
95th percentile per-packet one-way delay: 67.740 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-05-25 03:49:40

End at: 2018-05-25 03:50:10

Local clock offset: 0.06 ms

Remote clock offset: 0.394 ms

Below is generated by plot.py at 2018-05-25 08:25:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.81 Mbit/s

95th percentile per-packet one-way delay: 68.335 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 20.03 Mbit/s

95th percentile per-packet one-way delay: 68.272 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 14.49 Mbit/s

95th percentile per-packet one-way delay: 68.510 ms

Loss rate: 0.00%

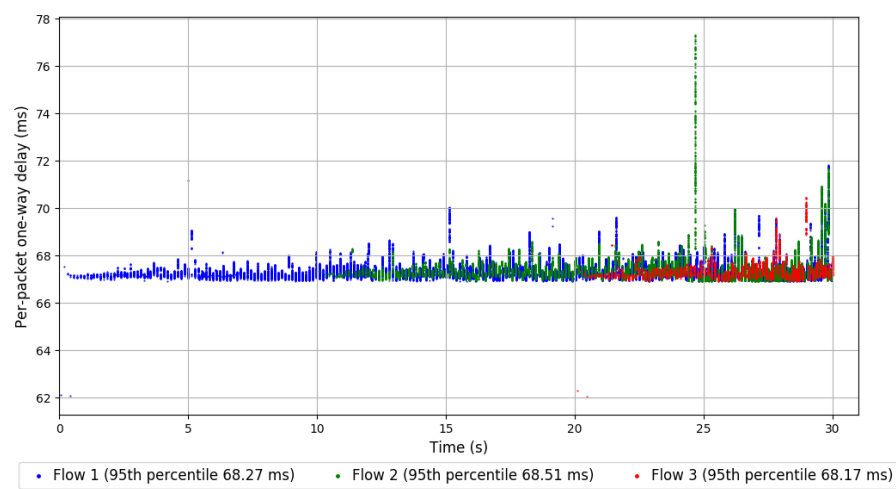
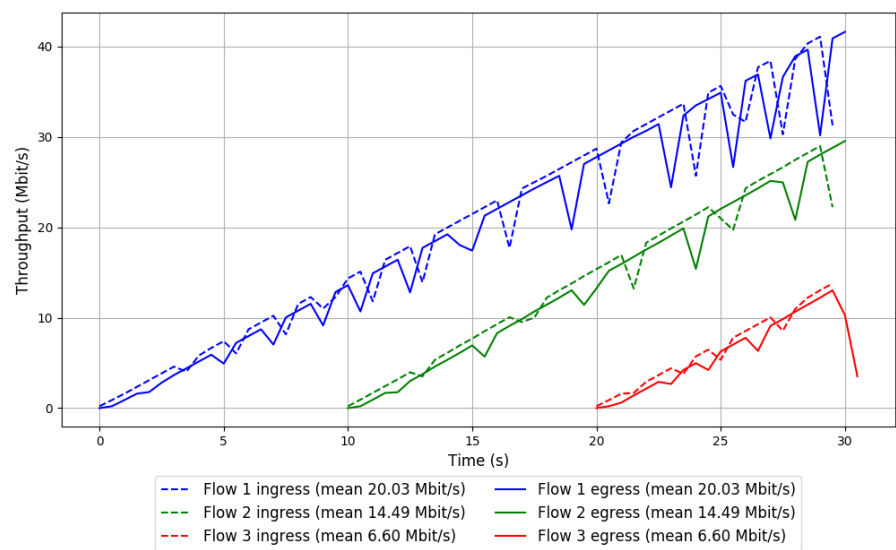
-- Flow 3:

Average throughput: 6.60 Mbit/s

95th percentile per-packet one-way delay: 68.171 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-05-25 04:12:14

End at: 2018-05-25 04:12:44

Local clock offset: -0.016 ms

Remote clock offset: 0.176 ms

Below is generated by plot.py at 2018-05-25 08:25:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 29.93 Mbit/s

95th percentile per-packet one-way delay: 67.331 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 17.79 Mbit/s

95th percentile per-packet one-way delay: 66.870 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 14.81 Mbit/s

95th percentile per-packet one-way delay: 67.644 ms

Loss rate: 0.00%

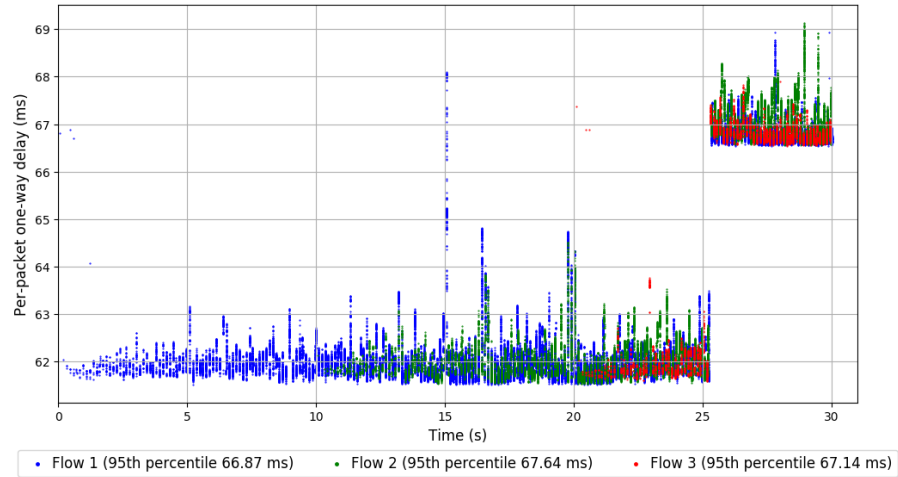
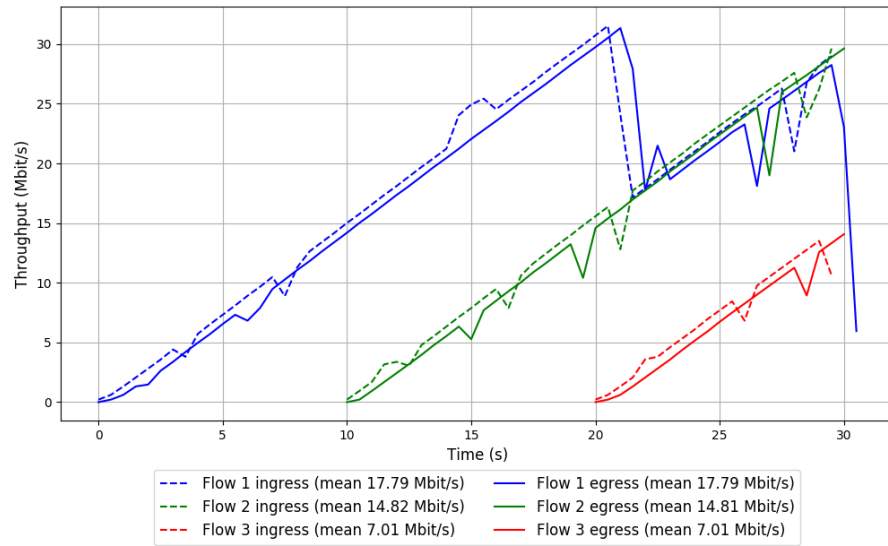
-- Flow 3:

Average throughput: 7.01 Mbit/s

95th percentile per-packet one-way delay: 67.144 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-05-25 04:34:53

End at: 2018-05-25 04:35:23

Local clock offset: -0.062 ms

Remote clock offset: 0.13 ms

Below is generated by plot.py at 2018-05-25 08:25:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 32.97 Mbit/s

95th percentile per-packet one-way delay: 68.118 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 21.25 Mbit/s

95th percentile per-packet one-way delay: 68.143 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 14.10 Mbit/s

95th percentile per-packet one-way delay: 68.163 ms

Loss rate: 0.00%

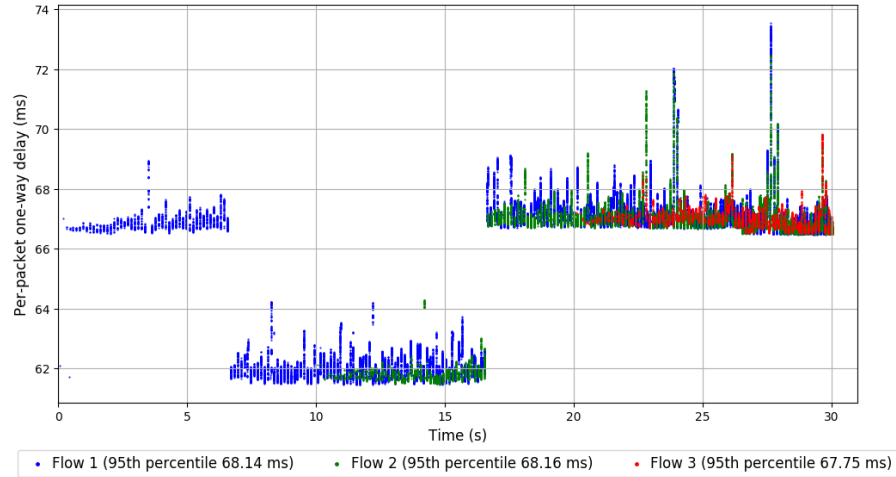
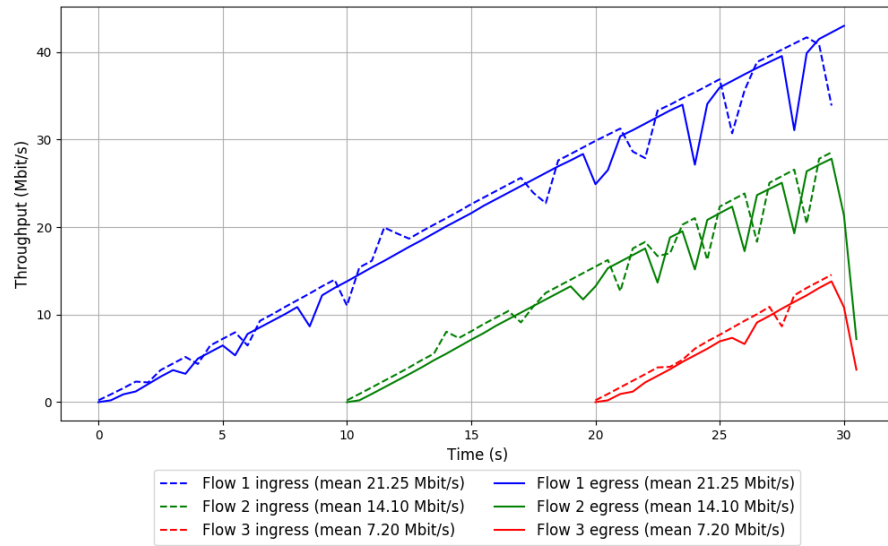
-- Flow 3:

Average throughput: 7.20 Mbit/s

95th percentile per-packet one-way delay: 67.746 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-05-25 04:57:21

End at: 2018-05-25 04:57:51

Local clock offset: 0.017 ms

Remote clock offset: 0.123 ms

Below is generated by plot.py at 2018-05-25 08:25:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 35.01 Mbit/s

95th percentile per-packet one-way delay: 67.505 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 22.56 Mbit/s

95th percentile per-packet one-way delay: 67.320 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 15.02 Mbit/s

95th percentile per-packet one-way delay: 68.225 ms

Loss rate: 0.00%

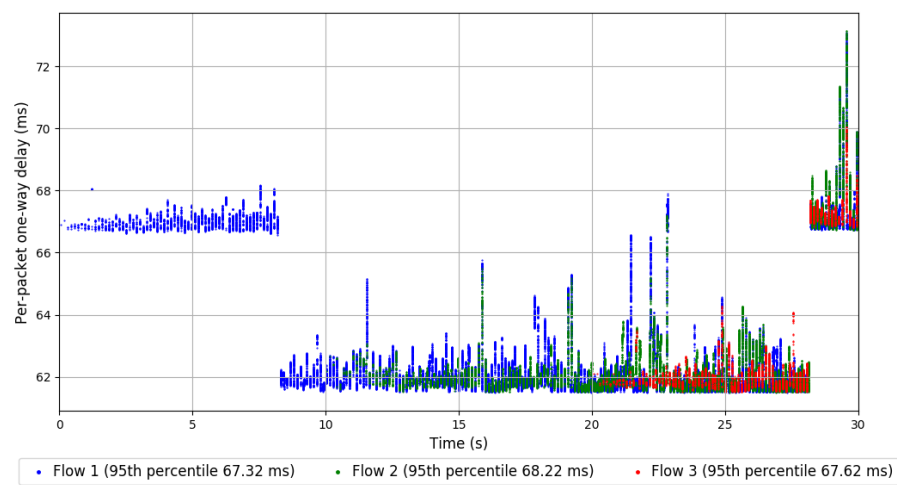
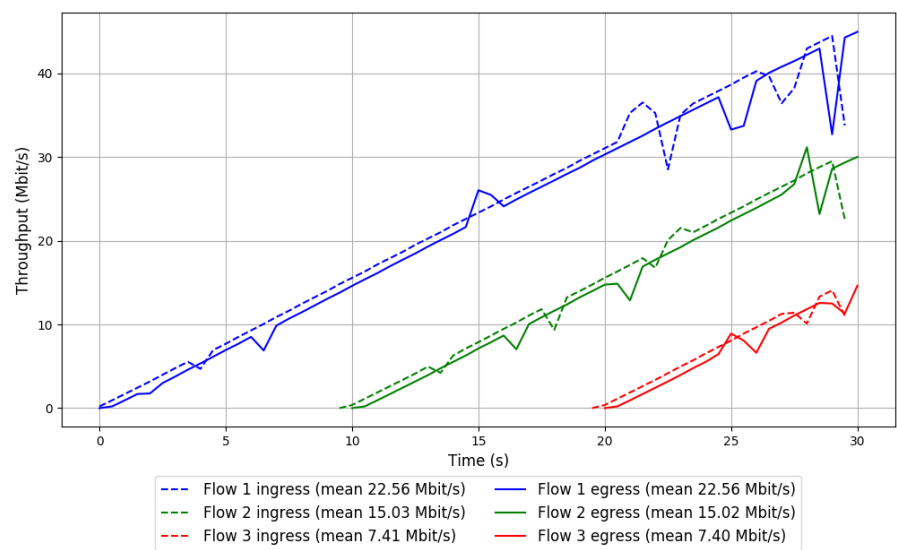
-- Flow 3:

Average throughput: 7.40 Mbit/s

95th percentile per-packet one-way delay: 67.622 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link

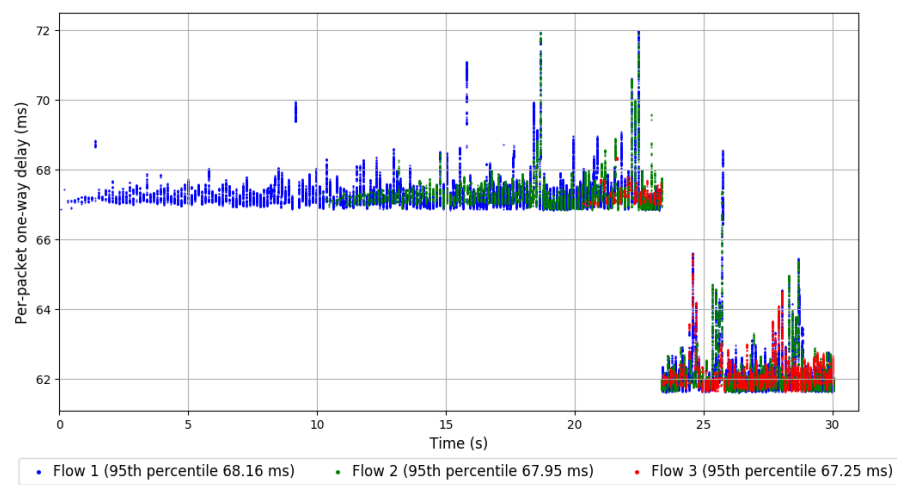
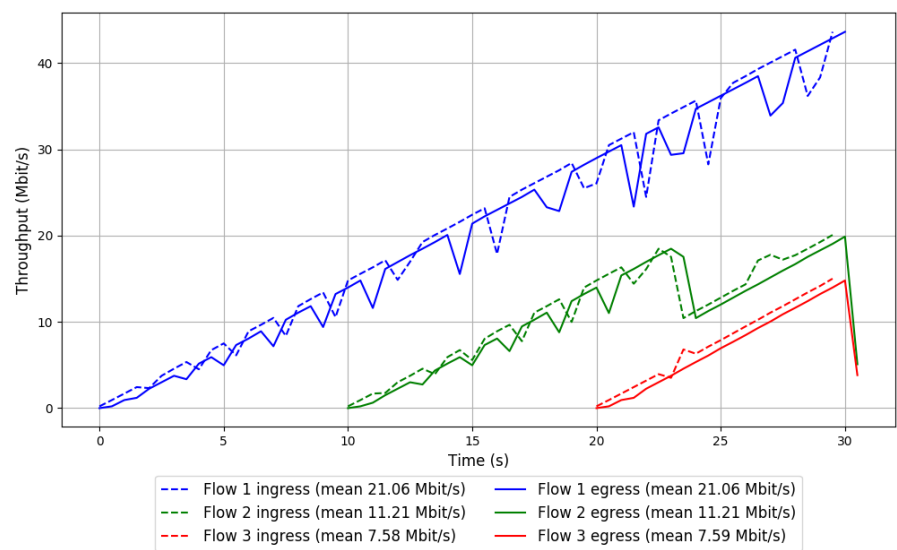


Run 7: Statistics of LEDBAT

Start at: 2018-05-25 05:19:46
End at: 2018-05-25 05:20:16
Local clock offset: -0.035 ms
Remote clock offset: 0.218 ms

Below is generated by plot.py at 2018-05-25 08:25:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 31.00 Mbit/s
95th percentile per-packet one-way delay: 68.021 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 21.06 Mbit/s
95th percentile per-packet one-way delay: 68.162 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.21 Mbit/s
95th percentile per-packet one-way delay: 67.949 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.59 Mbit/s
95th percentile per-packet one-way delay: 67.253 ms
Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-05-25 05:42:01

End at: 2018-05-25 05:42:31

Local clock offset: -0.111 ms

Remote clock offset: 0.196 ms

Below is generated by plot.py at 2018-05-25 08:25:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.85 Mbit/s

95th percentile per-packet one-way delay: 68.261 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 20.66 Mbit/s

95th percentile per-packet one-way delay: 68.415 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 13.37 Mbit/s

95th percentile per-packet one-way delay: 67.899 ms

Loss rate: 0.00%

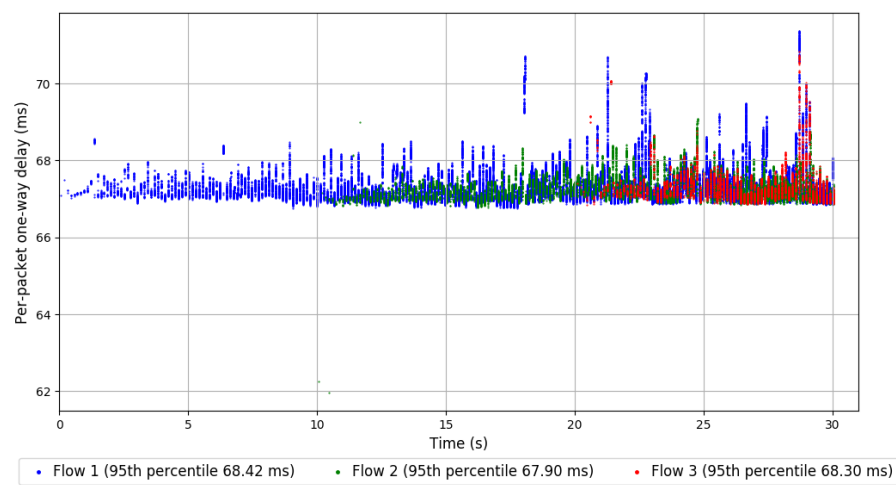
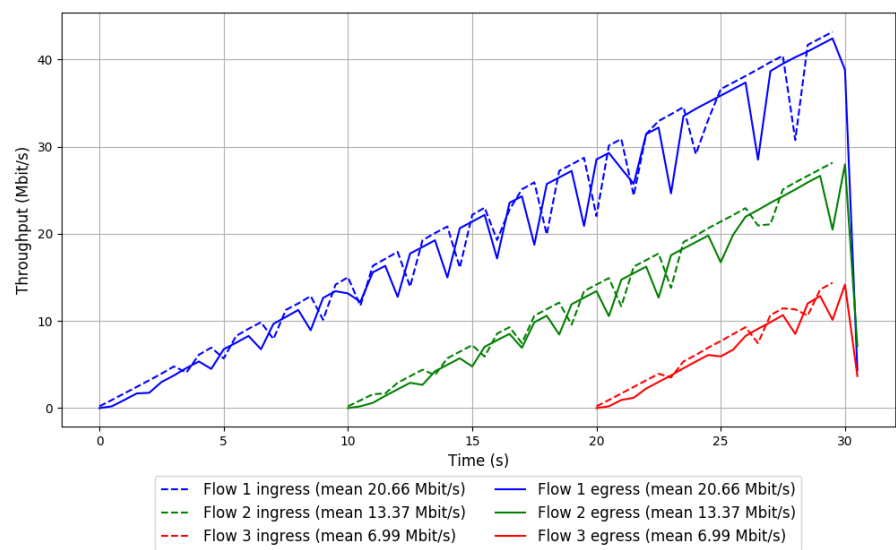
-- Flow 3:

Average throughput: 6.99 Mbit/s

95th percentile per-packet one-way delay: 68.303 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-05-25 06:04:44

End at: 2018-05-25 06:05:14

Local clock offset: -0.043 ms

Remote clock offset: 0.24 ms

Below is generated by plot.py at 2018-05-25 08:25:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.30 Mbit/s

95th percentile per-packet one-way delay: 68.184 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 19.82 Mbit/s

95th percentile per-packet one-way delay: 68.310 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 13.94 Mbit/s

95th percentile per-packet one-way delay: 68.016 ms

Loss rate: 0.00%

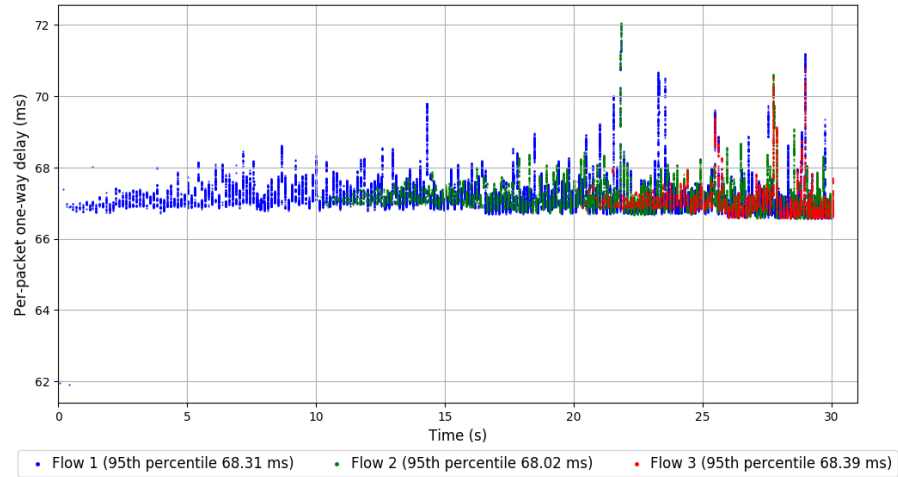
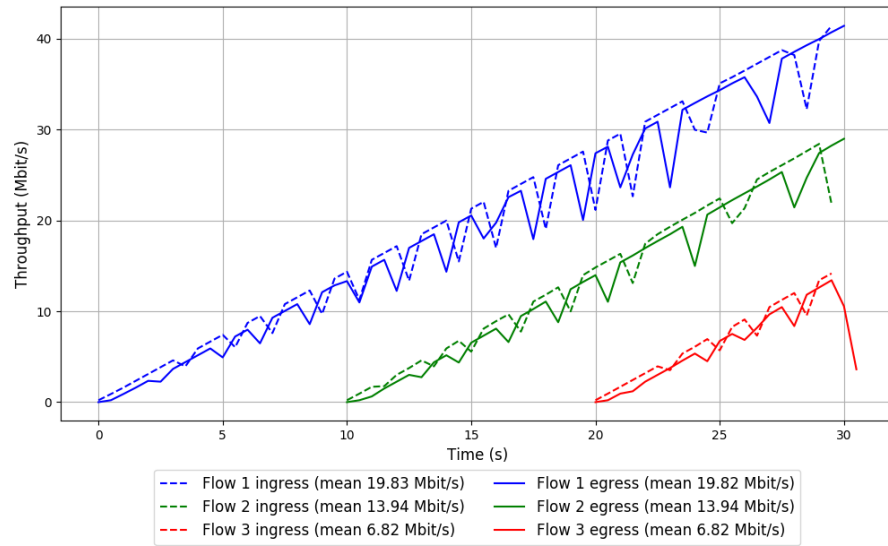
-- Flow 3:

Average throughput: 6.82 Mbit/s

95th percentile per-packet one-way delay: 68.392 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-05-25 06:27:21

End at: 2018-05-25 06:27:51

Local clock offset: -0.108 ms

Remote clock offset: 0.105 ms

Below is generated by plot.py at 2018-05-25 08:25:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 31.64 Mbit/s

95th percentile per-packet one-way delay: 68.192 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 20.70 Mbit/s

95th percentile per-packet one-way delay: 68.216 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 13.11 Mbit/s

95th percentile per-packet one-way delay: 68.256 ms

Loss rate: 0.00%

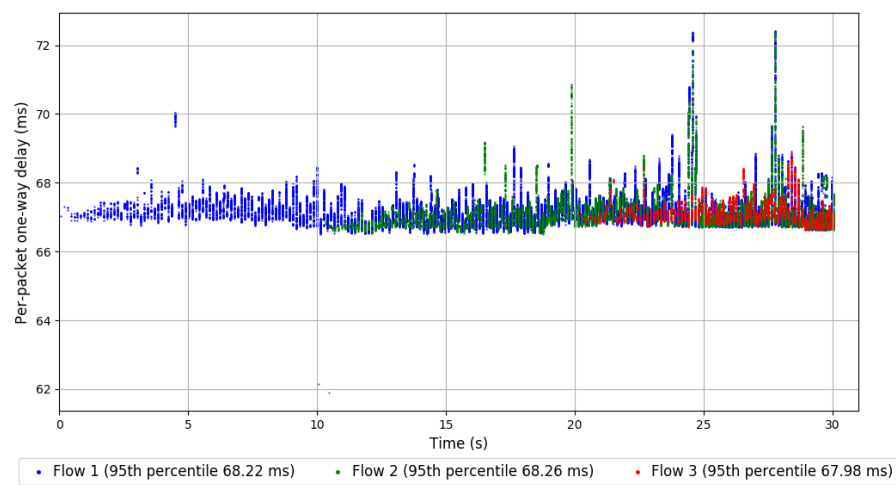
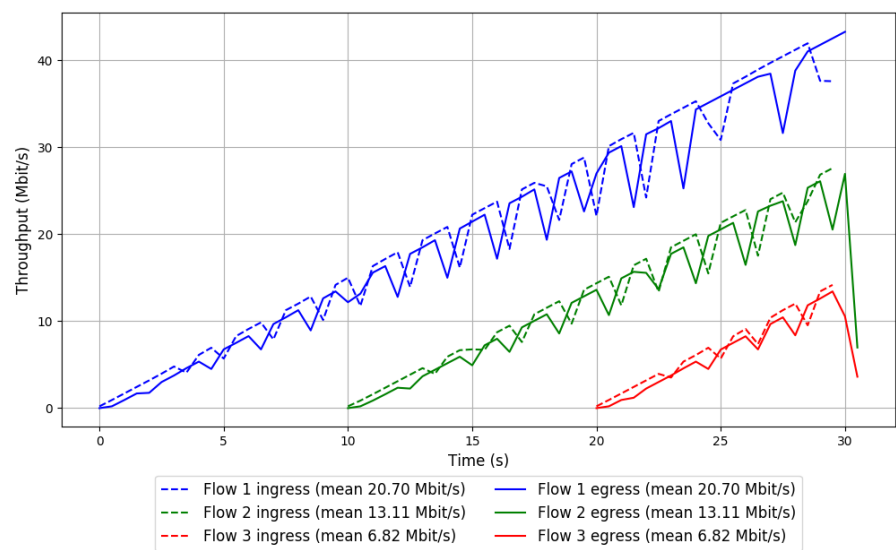
-- Flow 3:

Average throughput: 6.82 Mbit/s

95th percentile per-packet one-way delay: 67.983 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-05-25 03:15:00

End at: 2018-05-25 03:15:30

Local clock offset: -0.059 ms

Remote clock offset: 0.048 ms

Below is generated by plot.py at 2018-05-25 08:25:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 343.44 Mbit/s

95th percentile per-packet one-way delay: 211.734 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 295.84 Mbit/s

95th percentile per-packet one-way delay: 211.627 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 69.32 Mbit/s

95th percentile per-packet one-way delay: 212.581 ms

Loss rate: 0.11%

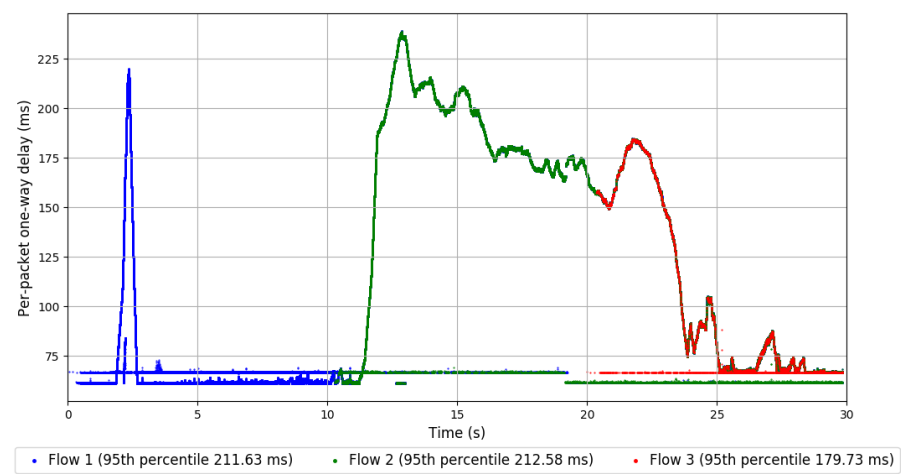
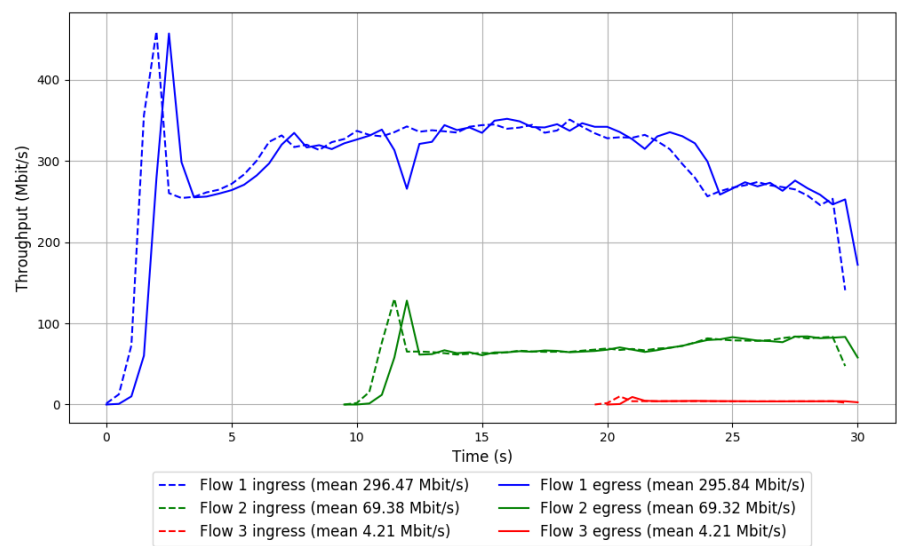
-- Flow 3:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 179.732 ms

Loss rate: 0.03%

Run 1: Report of PCC-Allegro — Data Link

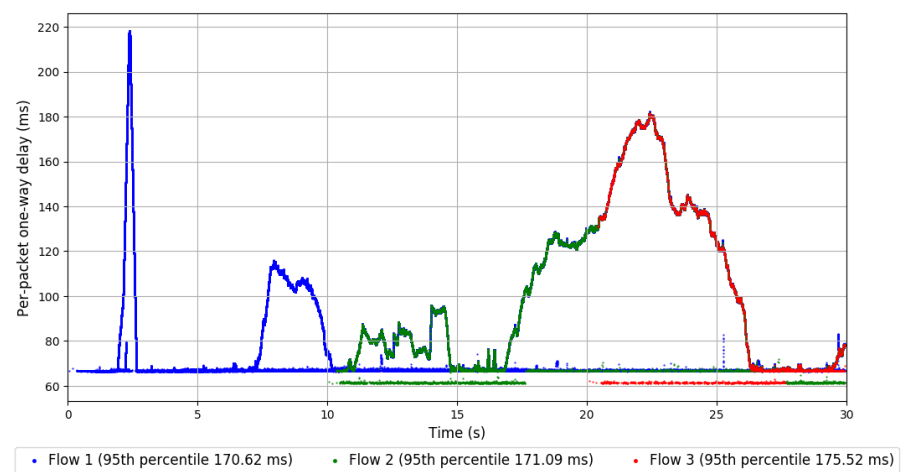
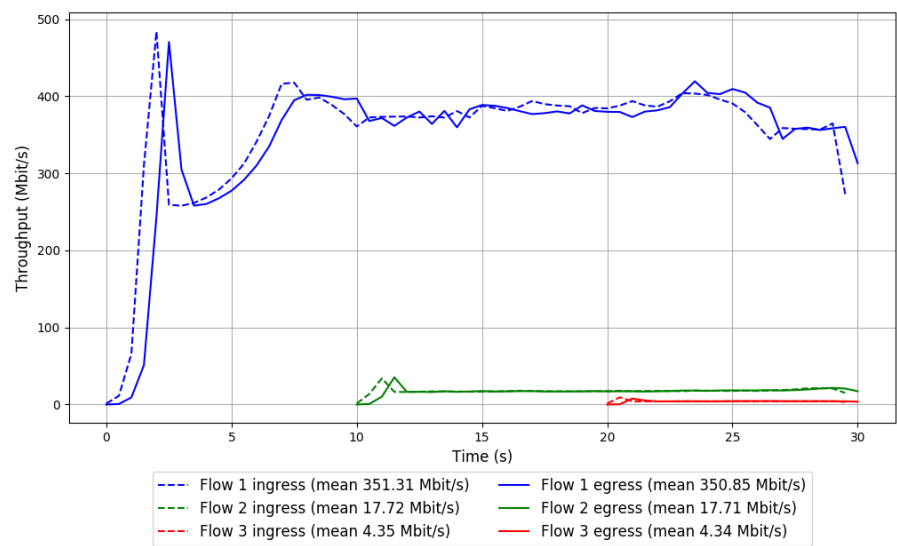


Run 2: Statistics of PCC-Allegro

Start at: 2018-05-25 03:37:42
End at: 2018-05-25 03:38:12
Local clock offset: 0.029 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-05-25 08:25:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 364.04 Mbit/s
95th percentile per-packet one-way delay: 170.647 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 350.85 Mbit/s
95th percentile per-packet one-way delay: 170.621 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 17.71 Mbit/s
95th percentile per-packet one-way delay: 171.088 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: 175.518 ms
Loss rate: 0.17%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-05-25 04:00:18

End at: 2018-05-25 04:00:48

Local clock offset: 0.067 ms

Remote clock offset: 0.178 ms

Below is generated by plot.py at 2018-05-25 08:25:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 346.64 Mbit/s

95th percentile per-packet one-way delay: 203.128 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 242.23 Mbit/s

95th percentile per-packet one-way delay: 200.809 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 126.07 Mbit/s

95th percentile per-packet one-way delay: 205.361 ms

Loss rate: 0.85%

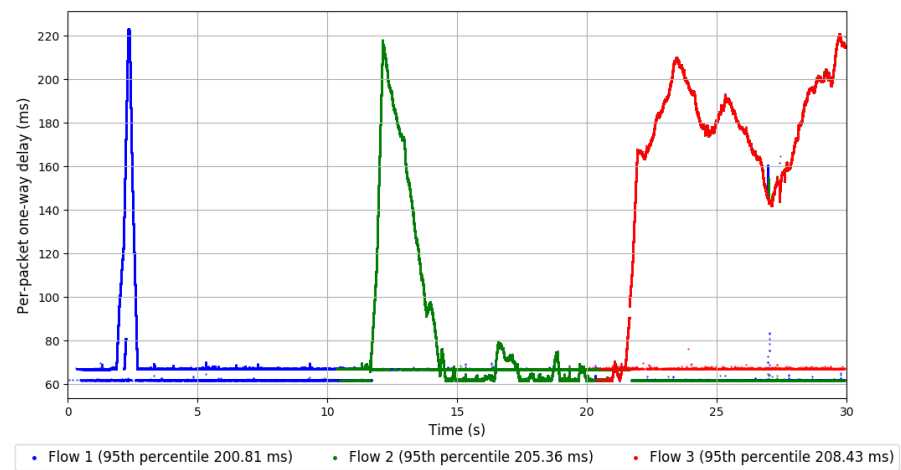
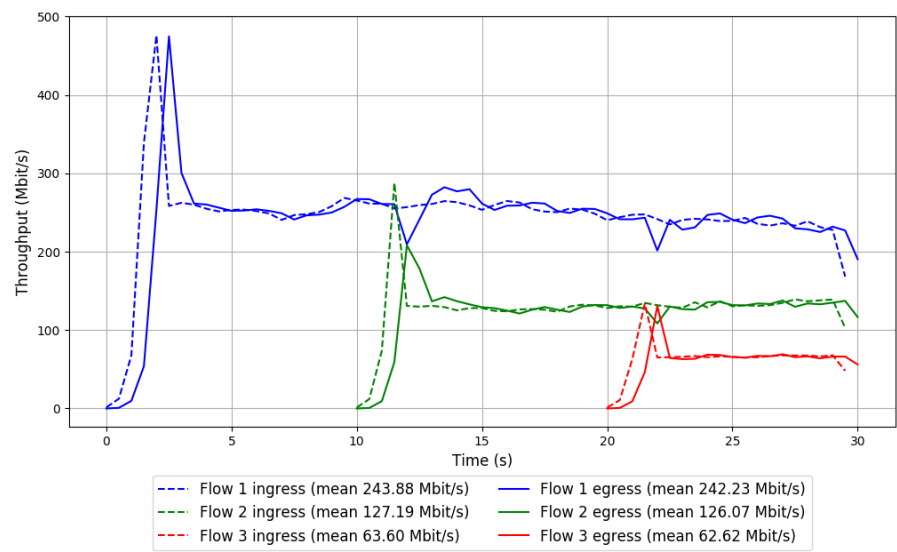
-- Flow 3:

Average throughput: 62.62 Mbit/s

95th percentile per-packet one-way delay: 208.426 ms

Loss rate: 1.59%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-05-25 04:22:52

End at: 2018-05-25 04:23:22

Local clock offset: -0.056 ms

Remote clock offset: 0.448 ms

Below is generated by plot.py at 2018-05-25 08:25:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 334.99 Mbit/s

95th percentile per-packet one-way delay: 155.056 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 288.38 Mbit/s

95th percentile per-packet one-way delay: 154.358 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 68.12 Mbit/s

95th percentile per-packet one-way delay: 160.502 ms

Loss rate: 0.61%

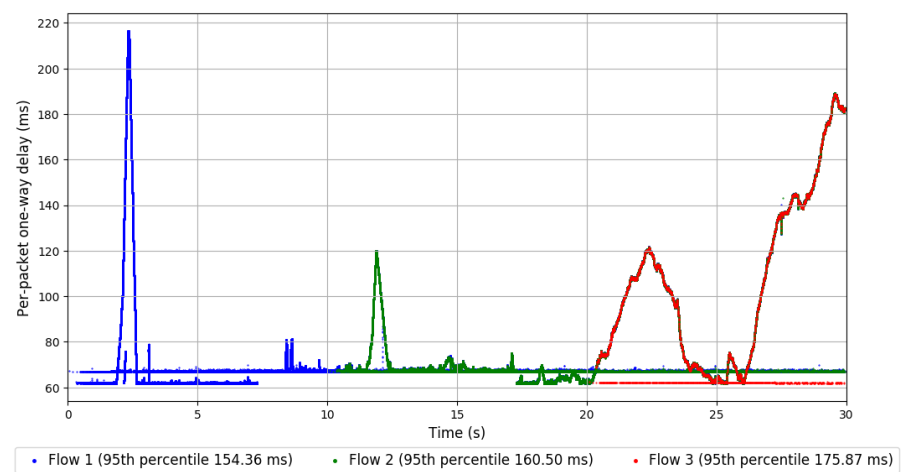
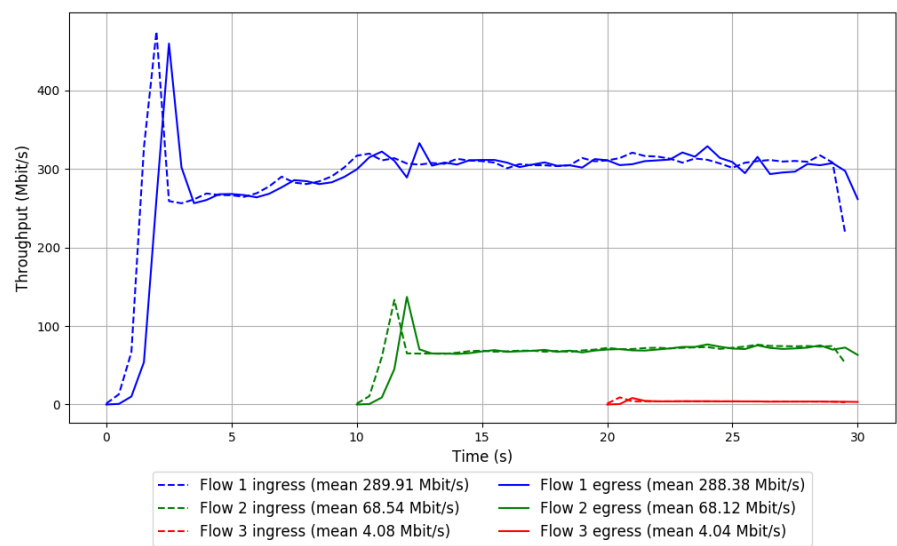
-- Flow 3:

Average throughput: 4.04 Mbit/s

95th percentile per-packet one-way delay: 175.871 ms

Loss rate: 1.07%

Run 4: Report of PCC-Allegro — Data Link

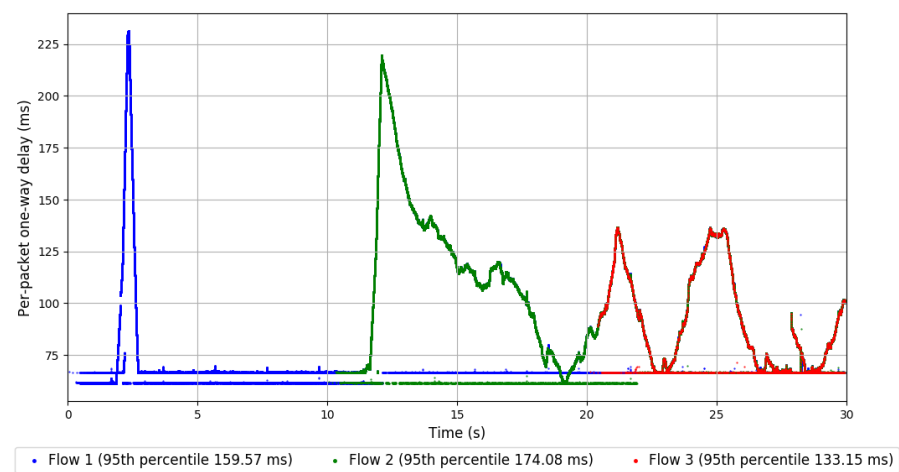
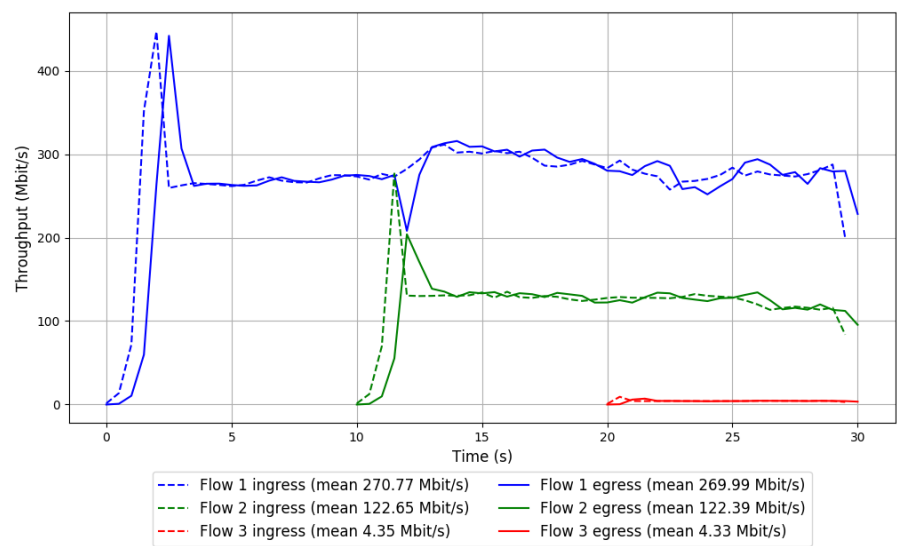


Run 5: Statistics of PCC-Allegro

Start at: 2018-05-25 04:45:27
End at: 2018-05-25 04:45:57
Local clock offset: -0.025 ms
Remote clock offset: -0.006 ms

Below is generated by plot.py at 2018-05-25 08:25:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 352.78 Mbit/s
95th percentile per-packet one-way delay: 162.740 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 269.99 Mbit/s
95th percentile per-packet one-way delay: 159.567 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 122.39 Mbit/s
95th percentile per-packet one-way delay: 174.078 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 4.33 Mbit/s
95th percentile per-packet one-way delay: 133.150 ms
Loss rate: 0.31%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-05-25 05:07:48

End at: 2018-05-25 05:08:18

Local clock offset: 0.014 ms

Remote clock offset: 0.017 ms

Below is generated by plot.py at 2018-05-25 08:25:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 376.75 Mbit/s

95th percentile per-packet one-way delay: 126.981 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 364.60 Mbit/s

95th percentile per-packet one-way delay: 127.057 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 16.12 Mbit/s

95th percentile per-packet one-way delay: 126.142 ms

Loss rate: 0.02%

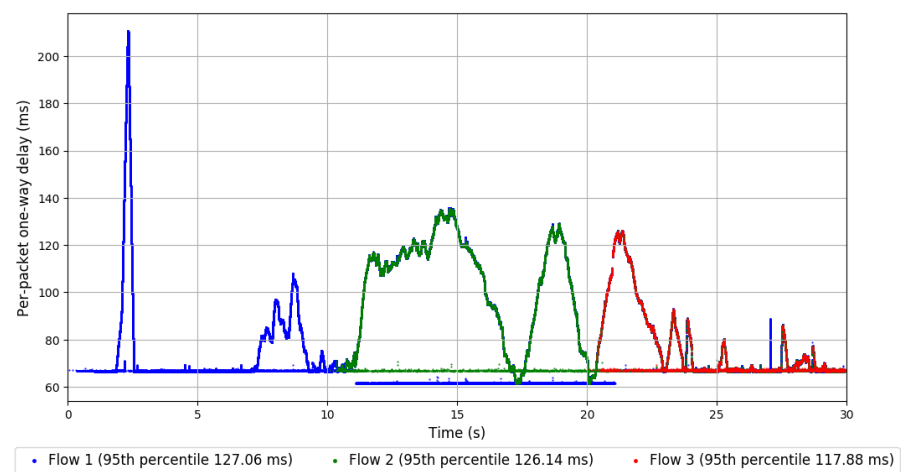
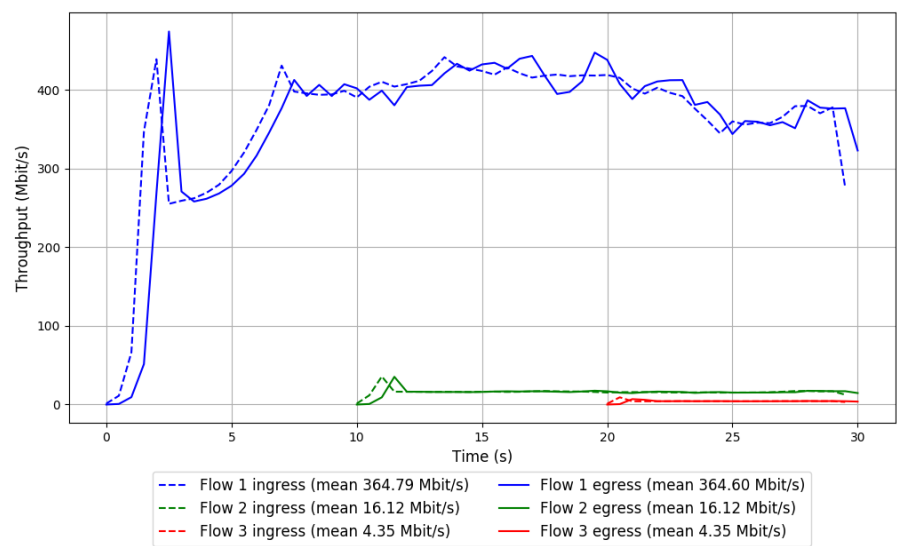
-- Flow 3:

Average throughput: 4.35 Mbit/s

95th percentile per-packet one-way delay: 117.880 ms

Loss rate: 0.06%

Run 6: Report of PCC-Allegro — Data Link

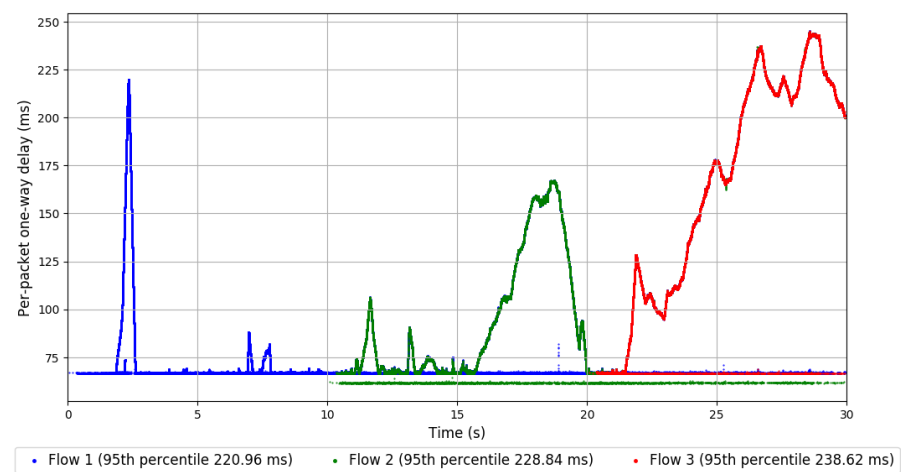
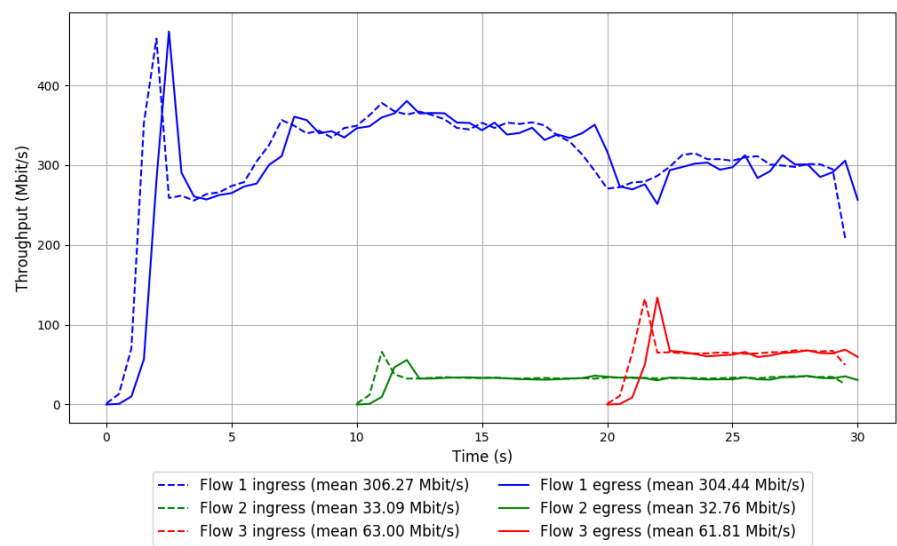


Run 7: Statistics of PCC-Allegro

Start at: 2018-05-25 05:30:06
End at: 2018-05-25 05:30:36
Local clock offset: -0.044 ms
Remote clock offset: -0.005 ms

Below is generated by plot.py at 2018-05-25 08:25:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 346.57 Mbit/s
95th percentile per-packet one-way delay: 223.842 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 304.44 Mbit/s
95th percentile per-packet one-way delay: 220.961 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 32.76 Mbit/s
95th percentile per-packet one-way delay: 228.839 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 61.81 Mbit/s
95th percentile per-packet one-way delay: 238.622 ms
Loss rate: 1.89%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-05-25 05:52:39

End at: 2018-05-25 05:53:09

Local clock offset: -0.07 ms

Remote clock offset: 0.095 ms

Below is generated by plot.py at 2018-05-25 08:25:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 361.64 Mbit/s

95th percentile per-packet one-way delay: 226.034 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 321.43 Mbit/s

95th percentile per-packet one-way delay: 225.190 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 58.47 Mbit/s

95th percentile per-packet one-way delay: 230.324 ms

Loss rate: 0.28%

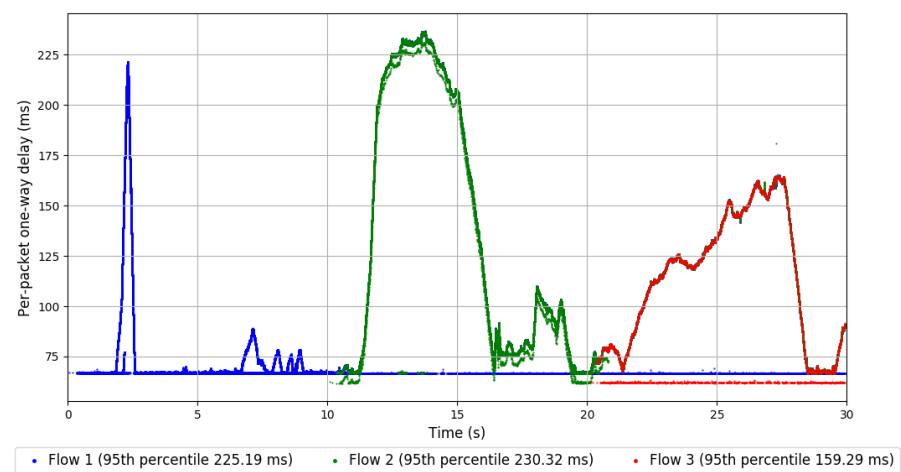
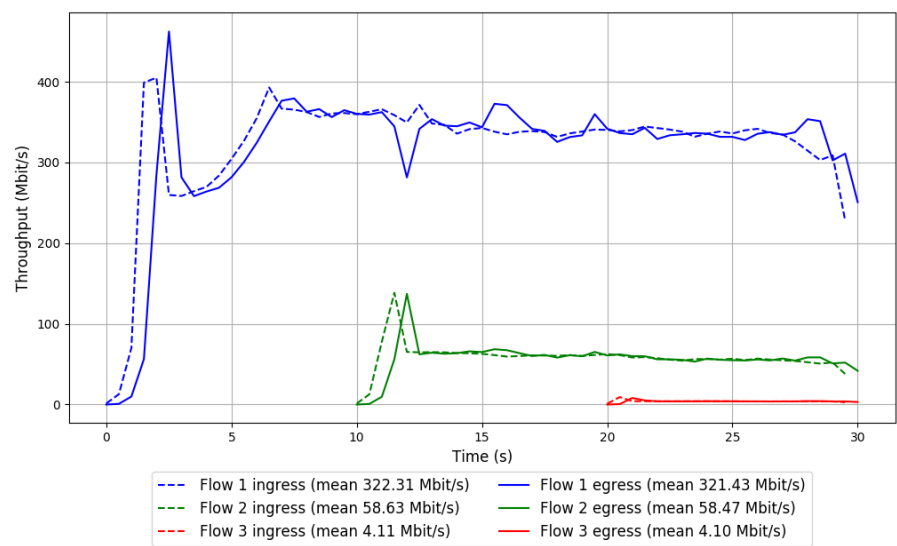
-- Flow 3:

Average throughput: 4.10 Mbit/s

95th percentile per-packet one-way delay: 159.291 ms

Loss rate: 0.24%

Run 8: Report of PCC-Allegro — Data Link

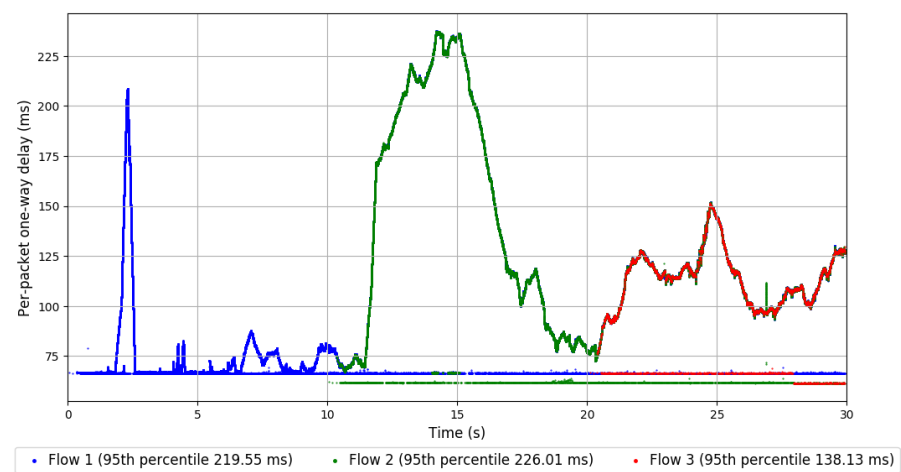
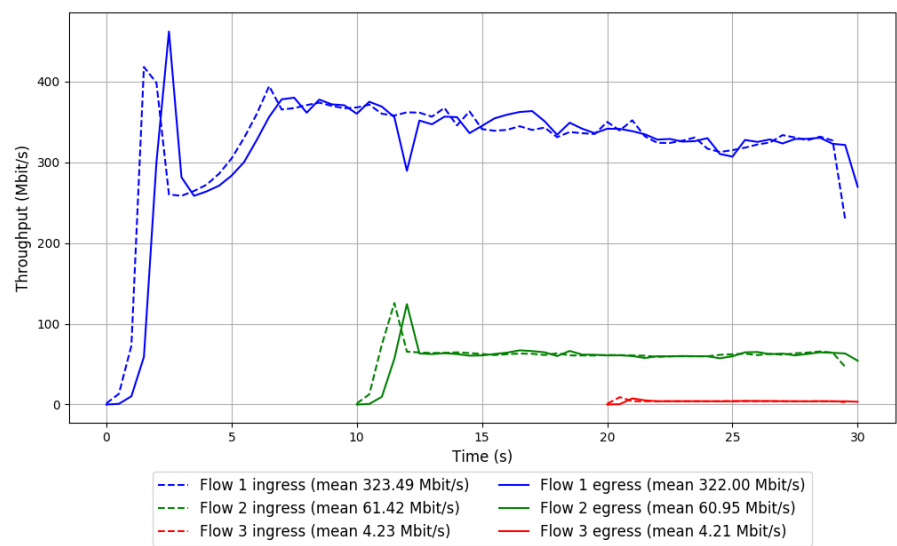


Run 9: Statistics of PCC-Allegro

Start at: 2018-05-25 06:15:22
End at: 2018-05-25 06:15:52
Local clock offset: -0.088 ms
Remote clock offset: -0.045 ms

Below is generated by plot.py at 2018-05-25 08:25:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 363.89 Mbit/s
95th percentile per-packet one-way delay: 220.245 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 322.00 Mbit/s
95th percentile per-packet one-way delay: 219.554 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 60.95 Mbit/s
95th percentile per-packet one-way delay: 226.013 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 4.21 Mbit/s
95th percentile per-packet one-way delay: 138.129 ms
Loss rate: 0.61%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-05-25 06:38:05

End at: 2018-05-25 06:38:35

Local clock offset: -0.072 ms

Remote clock offset: 0.137 ms

Below is generated by plot.py at 2018-05-25 08:25:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 347.48 Mbit/s

95th percentile per-packet one-way delay: 183.213 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 259.92 Mbit/s

95th percentile per-packet one-way delay: 179.373 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 123.70 Mbit/s

95th percentile per-packet one-way delay: 190.870 ms

Loss rate: 0.48%

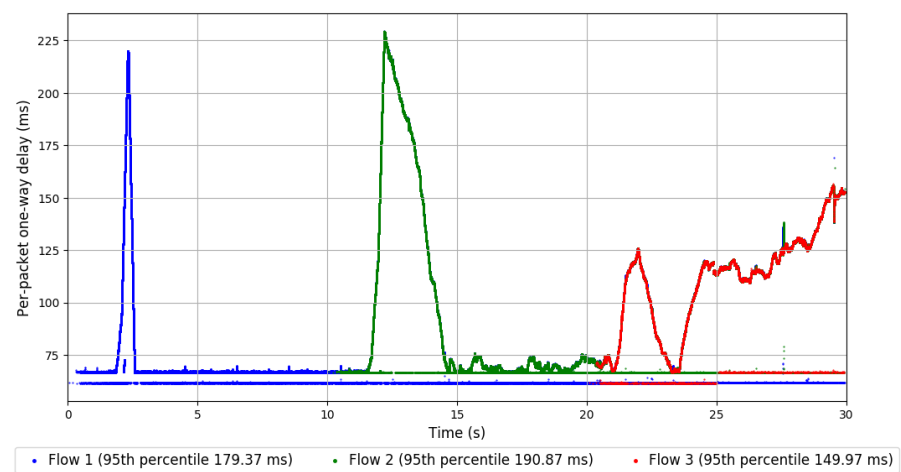
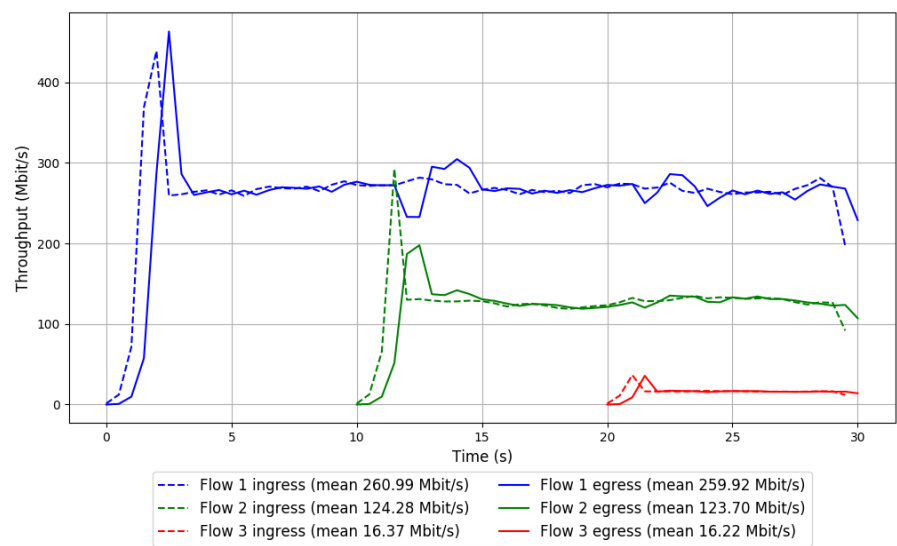
-- Flow 3:

Average throughput: 16.22 Mbit/s

95th percentile per-packet one-way delay: 149.967 ms

Loss rate: 0.94%

Run 10: Report of PCC-Allegro — Data Link

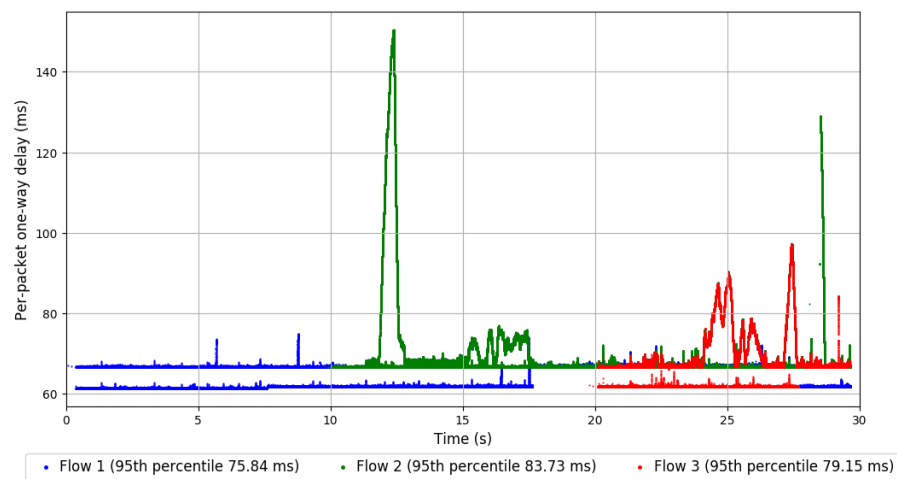
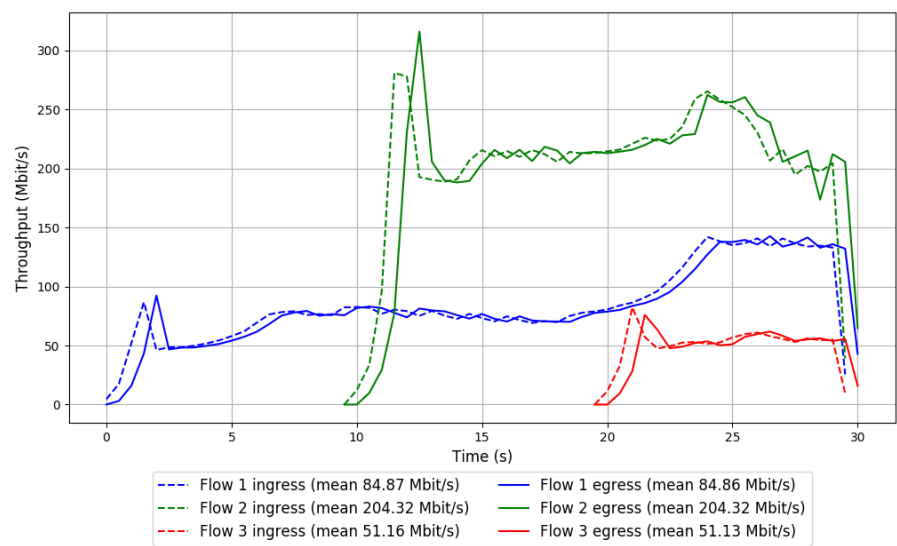


```
Run 1: Statistics of PCC-Expr

Start at: 2018-05-25 02:58:21
End at: 2018-05-25 02:58:51
Local clock offset: -0.096 ms
Remote clock offset: 0.149 ms

# Below is generated by plot.py at 2018-05-25 08:25:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 239.12 Mbit/s
95th percentile per-packet one-way delay: 79.788 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 84.86 Mbit/s
95th percentile per-packet one-way delay: 75.845 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 204.32 Mbit/s
95th percentile per-packet one-way delay: 83.727 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 51.13 Mbit/s
95th percentile per-packet one-way delay: 79.153 ms
Loss rate: 0.04%
```

Run 1: Report of PCC-Expr — Data Link

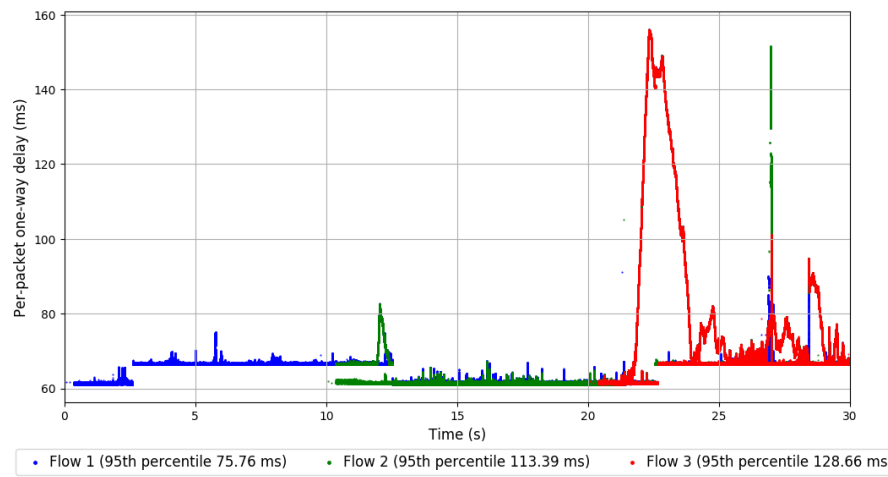
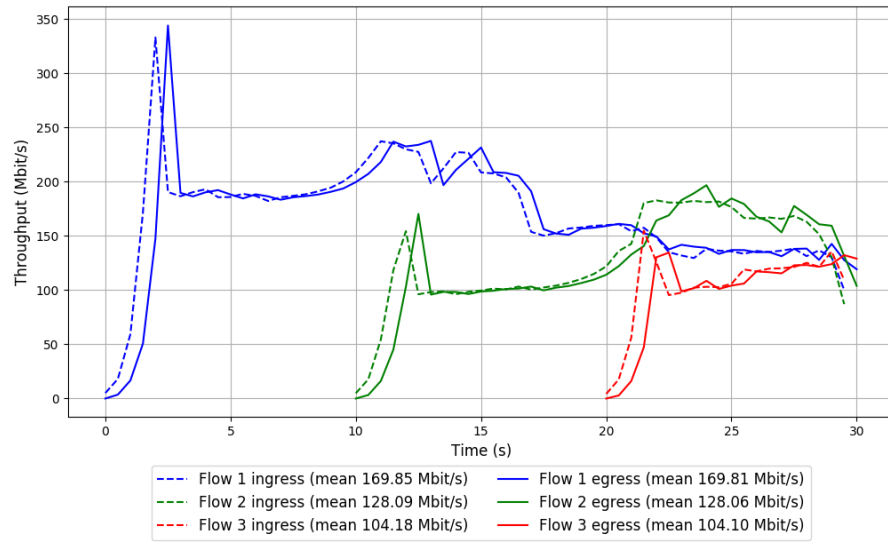


Run 2: Statistics of PCC-Expr

Start at: 2018-05-25 03:20:27
End at: 2018-05-25 03:20:57
Local clock offset: -0.067 ms
Remote clock offset: -0.109 ms

Below is generated by plot.py at 2018-05-25 08:25:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 289.32 Mbit/s
95th percentile per-packet one-way delay: 89.402 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 169.81 Mbit/s
95th percentile per-packet one-way delay: 75.759 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 128.06 Mbit/s
95th percentile per-packet one-way delay: 113.388 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 104.10 Mbit/s
95th percentile per-packet one-way delay: 128.664 ms
Loss rate: 0.07%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-05-25 03:43:07

End at: 2018-05-25 03:43:37

Local clock offset: 0.045 ms

Remote clock offset: 0.196 ms

Below is generated by plot.py at 2018-05-25 08:33:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 340.95 Mbit/s

95th percentile per-packet one-way delay: 257.892 ms

Loss rate: 8.96%

-- Flow 1:

Average throughput: 151.44 Mbit/s

95th percentile per-packet one-way delay: 228.055 ms

Loss rate: 4.52%

-- Flow 2:

Average throughput: 283.03 Mbit/s

95th percentile per-packet one-way delay: 324.807 ms

Loss rate: 12.19%

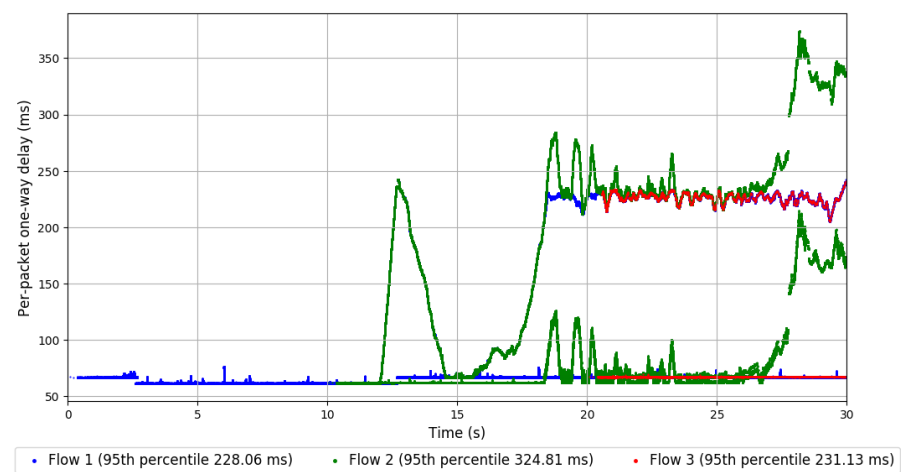
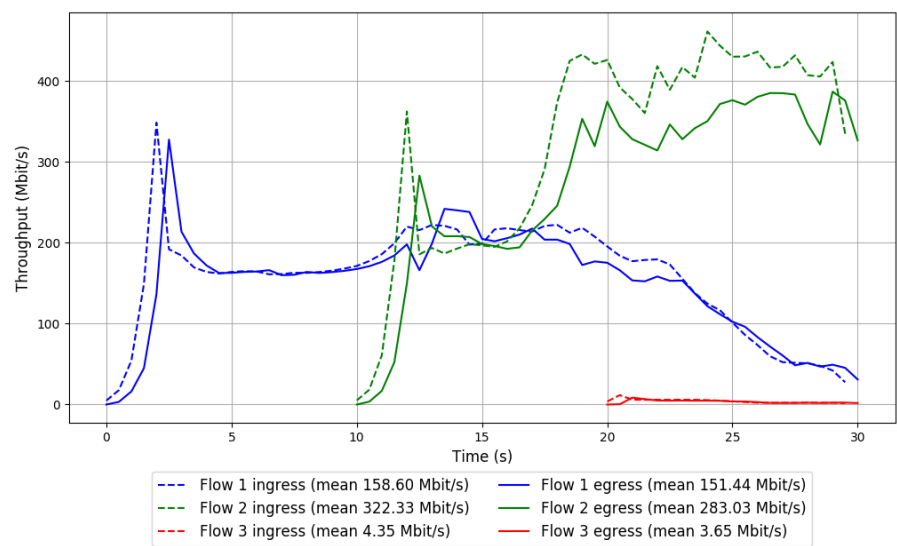
-- Flow 3:

Average throughput: 3.65 Mbit/s

95th percentile per-packet one-way delay: 231.132 ms

Loss rate: 16.21%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-05-25 04:05:45

End at: 2018-05-25 04:06:15

Local clock offset: 0.019 ms

Remote clock offset: 0.222 ms

Below is generated by plot.py at 2018-05-25 08:33:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 303.82 Mbit/s

95th percentile per-packet one-way delay: 70.669 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 171.66 Mbit/s

95th percentile per-packet one-way delay: 67.721 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 172.67 Mbit/s

95th percentile per-packet one-way delay: 78.156 ms

Loss rate: 0.00%

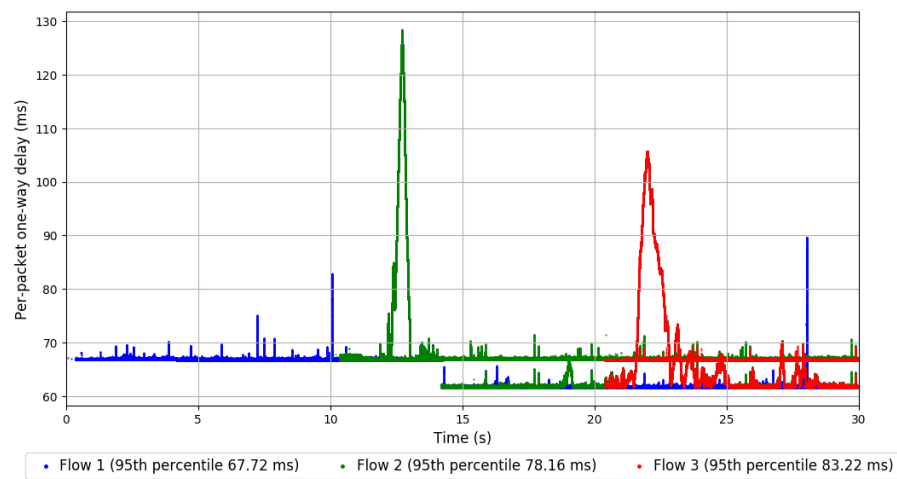
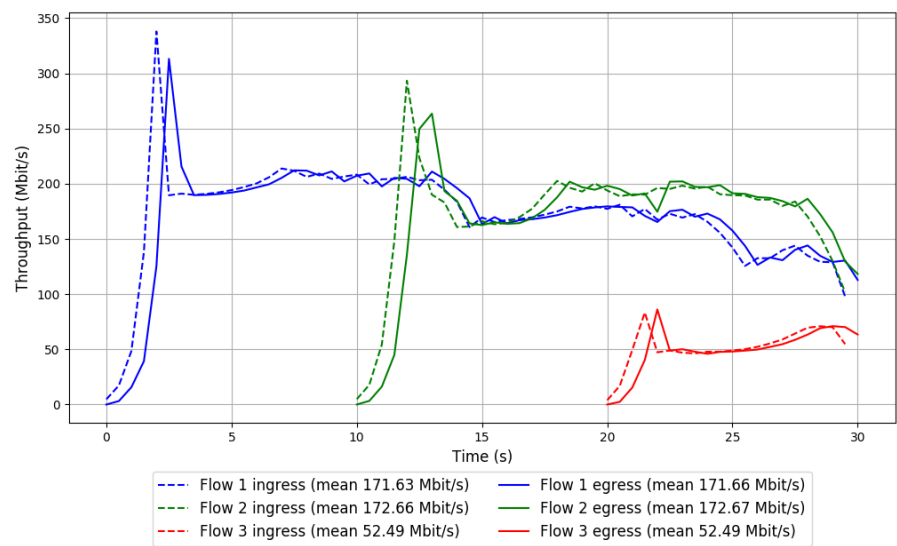
-- Flow 3:

Average throughput: 52.49 Mbit/s

95th percentile per-packet one-way delay: 83.218 ms

Loss rate: 0.00%

Run 4: Report of PCC-Expr — Data Link

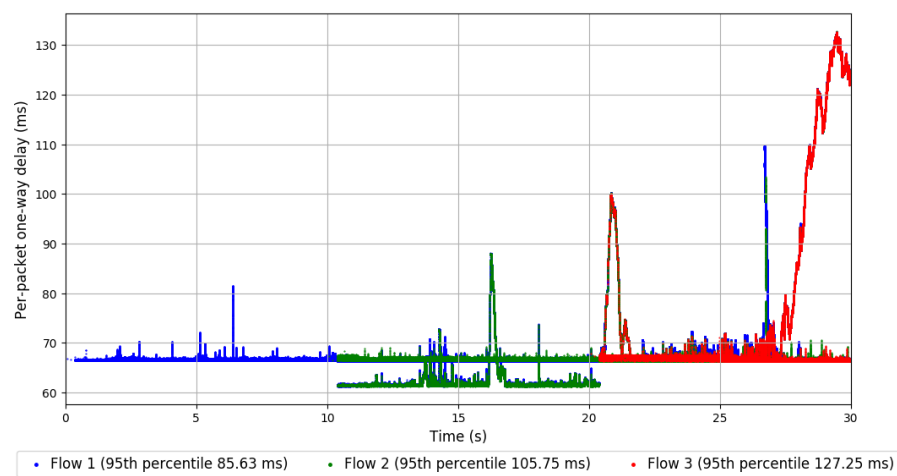
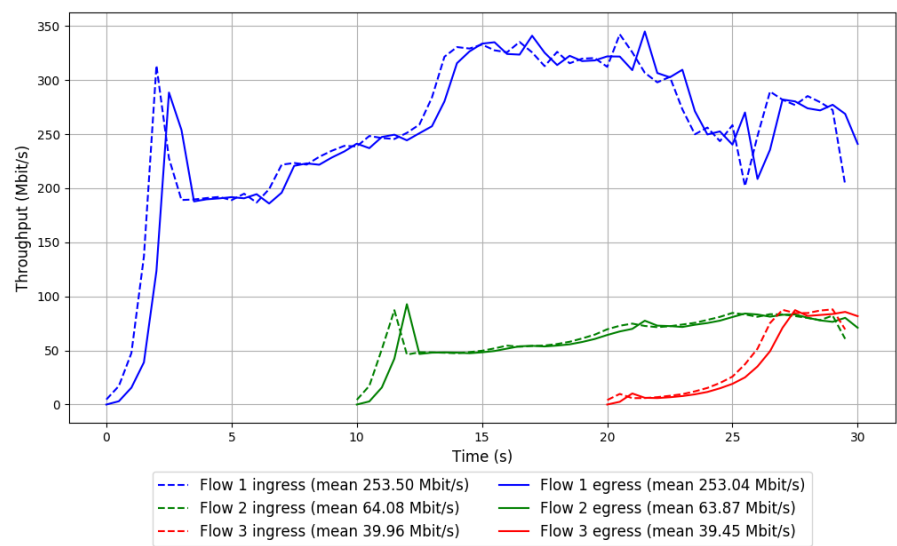


Run 5: Statistics of PCC-Expr

Start at: 2018-05-25 04:28:19
End at: 2018-05-25 04:28:49
Local clock offset: -0.035 ms
Remote clock offset: -0.099 ms

Below is generated by plot.py at 2018-05-25 08:33:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 308.51 Mbit/s
95th percentile per-packet one-way delay: 93.356 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 253.04 Mbit/s
95th percentile per-packet one-way delay: 85.627 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 63.87 Mbit/s
95th percentile per-packet one-way delay: 105.750 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 39.45 Mbit/s
95th percentile per-packet one-way delay: 127.254 ms
Loss rate: 1.32%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-05-25 04:50:59

End at: 2018-05-25 04:51:29

Local clock offset: 0.04 ms

Remote clock offset: 0.084 ms

Below is generated by plot.py at 2018-05-25 08:33:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 163.48 Mbit/s

95th percentile per-packet one-way delay: 66.829 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 69.88 Mbit/s

95th percentile per-packet one-way delay: 66.817 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 93.64 Mbit/s

95th percentile per-packet one-way delay: 66.873 ms

Loss rate: 0.00%

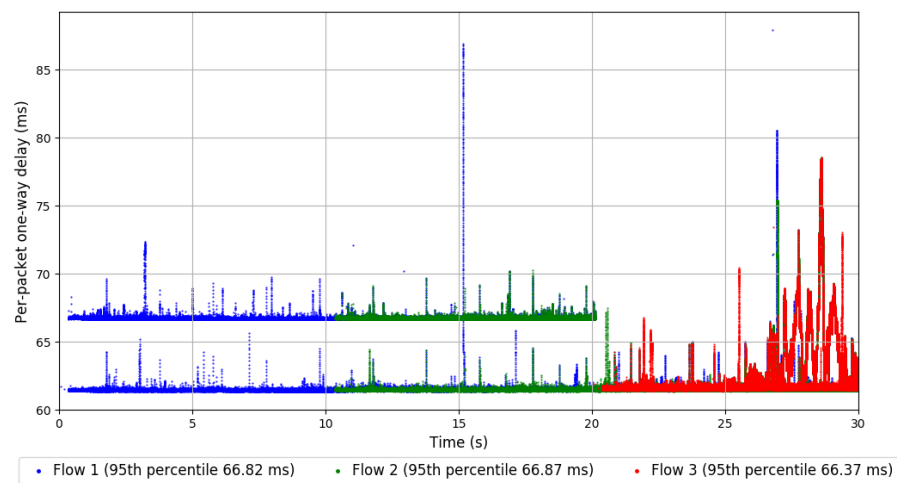
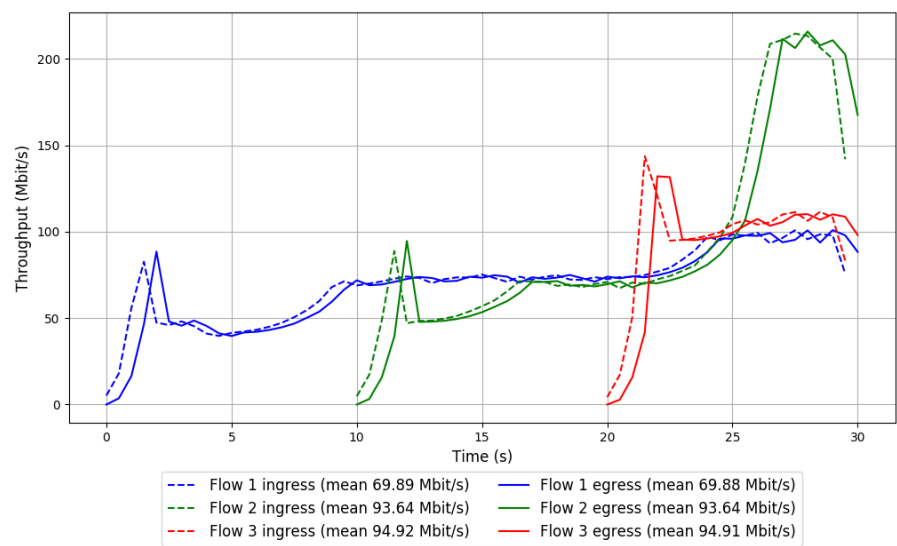
-- Flow 3:

Average throughput: 94.91 Mbit/s

95th percentile per-packet one-way delay: 66.373 ms

Loss rate: 0.00%

Run 6: Report of PCC-Expr — Data Link

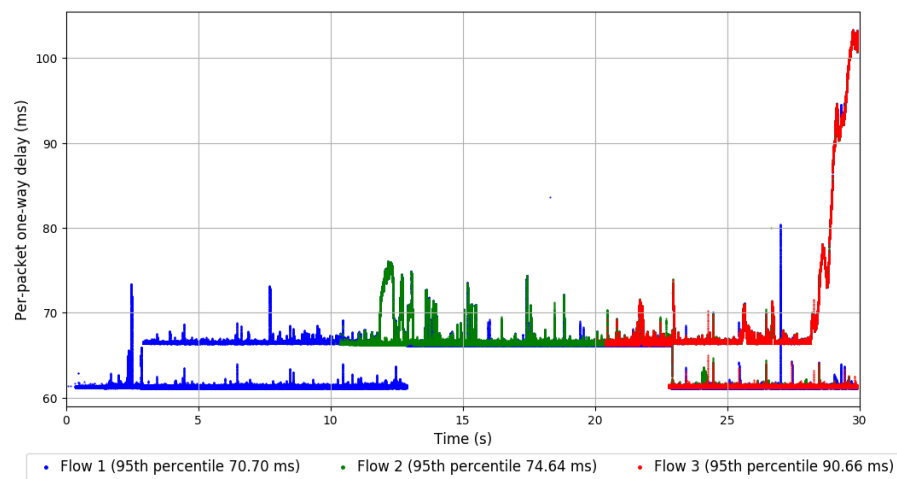
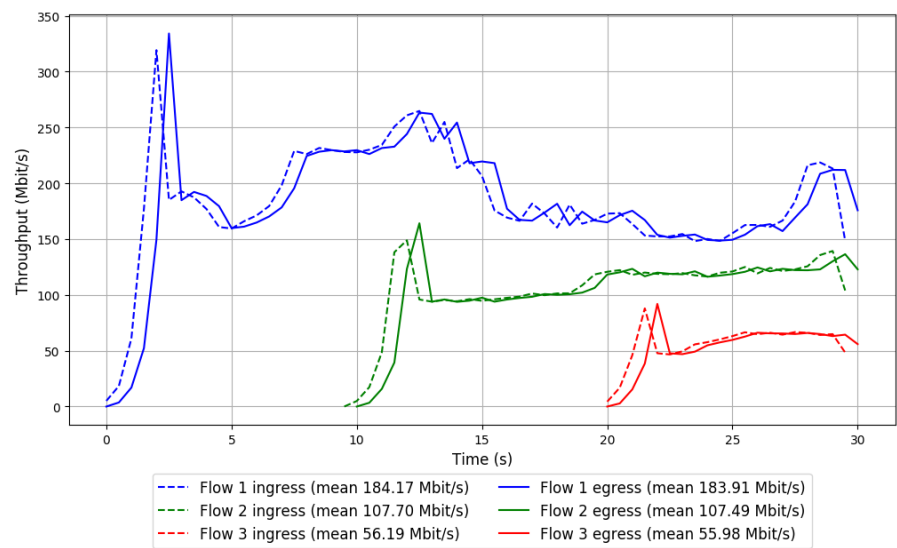


Run 7: Statistics of PCC-Expr

Start at: 2018-05-25 05:13:17
End at: 2018-05-25 05:13:47
Local clock offset: 0.02 ms
Remote clock offset: -0.255 ms

Below is generated by plot.py at 2018-05-25 08:33:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 273.92 Mbit/s
95th percentile per-packet one-way delay: 72.749 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 183.91 Mbit/s
95th percentile per-packet one-way delay: 70.696 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 107.49 Mbit/s
95th percentile per-packet one-way delay: 74.638 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 55.98 Mbit/s
95th percentile per-packet one-way delay: 90.663 ms
Loss rate: 0.38%

Run 7: Report of PCC-Expr — Data Link

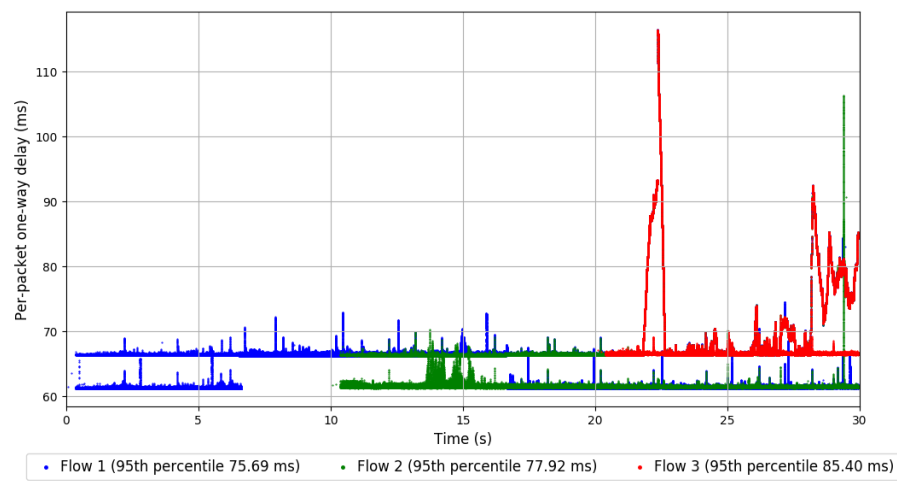
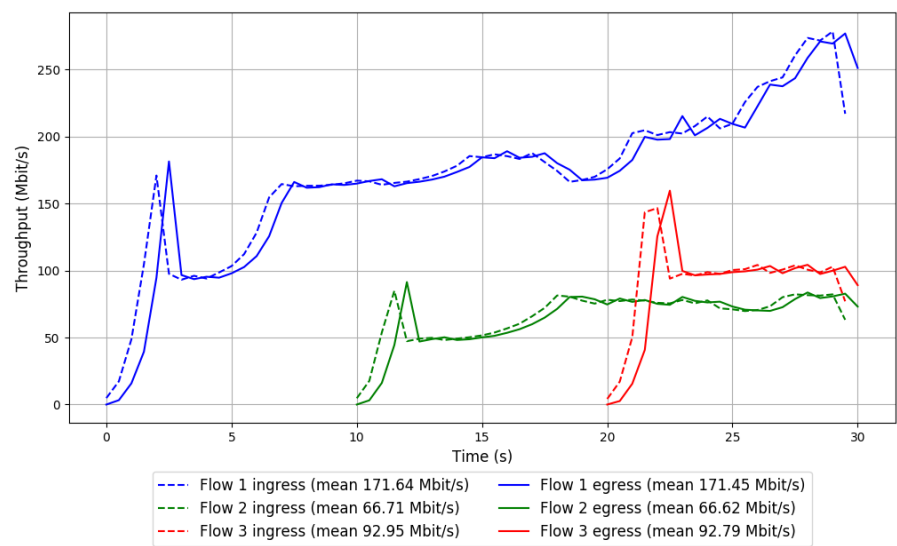


Run 8: Statistics of PCC-Expr

Start at: 2018-05-25 05:35:33
End at: 2018-05-25 05:36:03
Local clock offset: -0.021 ms
Remote clock offset: -0.152 ms

Below is generated by plot.py at 2018-05-25 08:33:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 246.35 Mbit/s
95th percentile per-packet one-way delay: 77.960 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 171.45 Mbit/s
95th percentile per-packet one-way delay: 75.692 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 66.62 Mbit/s
95th percentile per-packet one-way delay: 77.918 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 92.79 Mbit/s
95th percentile per-packet one-way delay: 85.403 ms
Loss rate: 0.17%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-05-25 05:58:04

End at: 2018-05-25 05:58:34

Local clock offset: -0.059 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2018-05-25 08:41:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 366.08 Mbit/s

95th percentile per-packet one-way delay: 100.770 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 260.39 Mbit/s

95th percentile per-packet one-way delay: 95.037 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 147.30 Mbit/s

95th percentile per-packet one-way delay: 106.274 ms

Loss rate: 0.28%

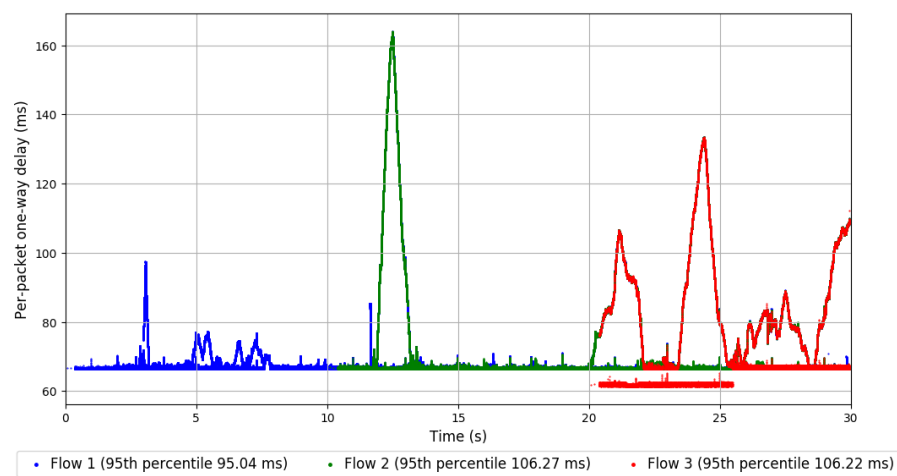
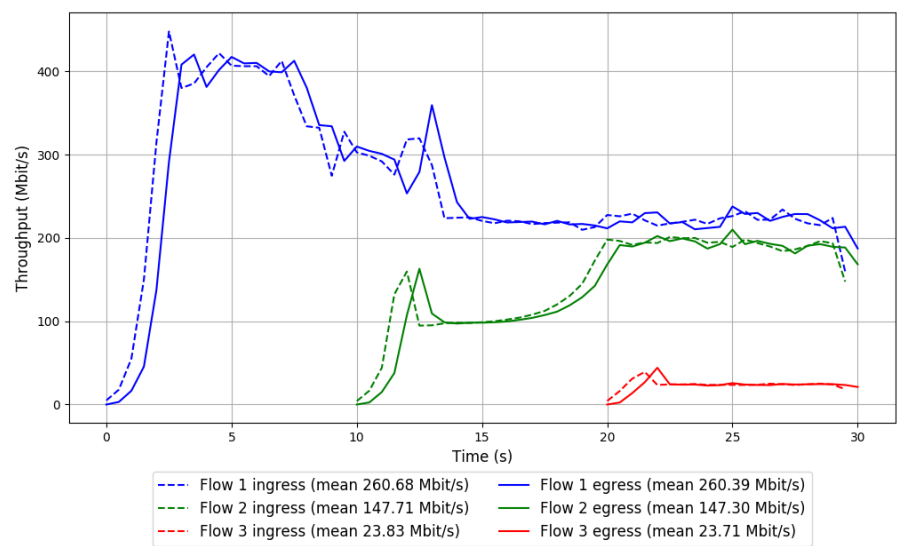
-- Flow 3:

Average throughput: 23.71 Mbit/s

95th percentile per-packet one-way delay: 106.222 ms

Loss rate: 0.41%

Run 9: Report of PCC-Expr — Data Link

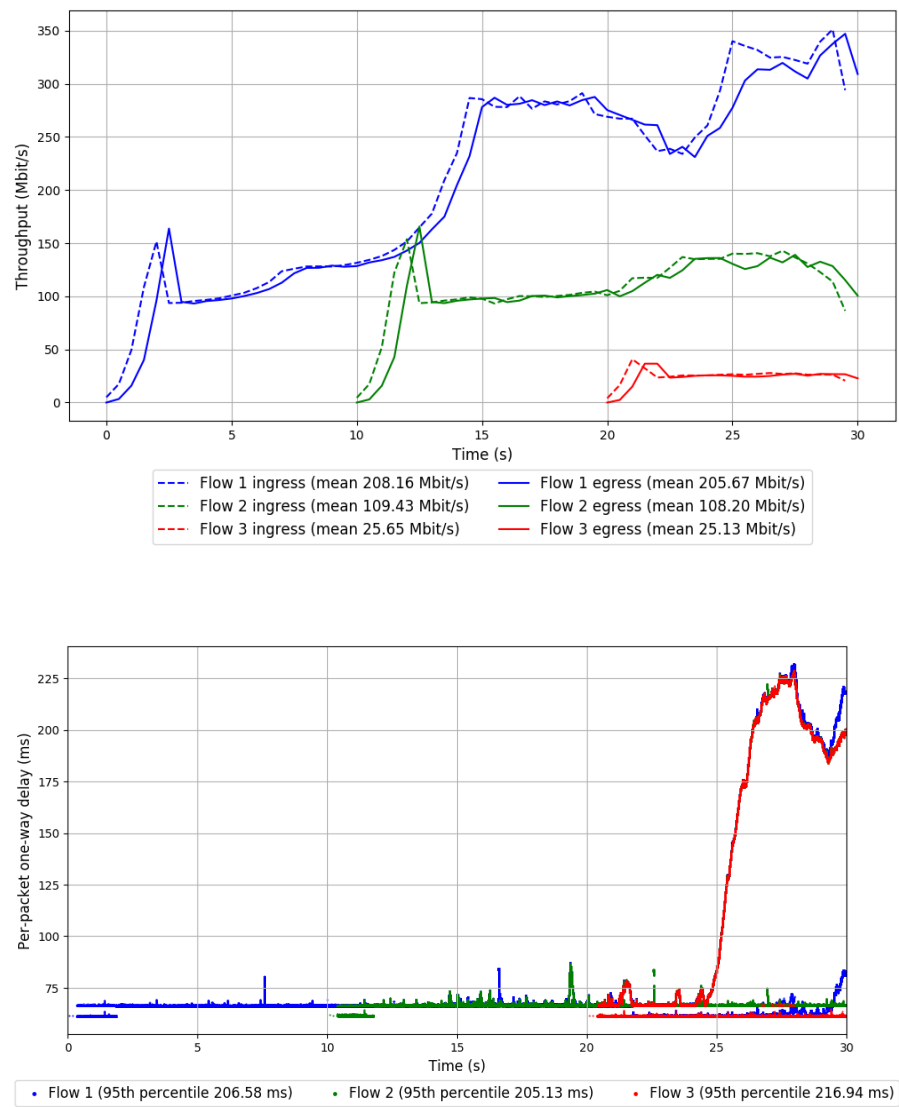


Run 10: Statistics of PCC-Expr

Start at: 2018-05-25 06:20:48
End at: 2018-05-25 06:21:18
Local clock offset: -0.058 ms
Remote clock offset: -0.127 ms

Below is generated by plot.py at 2018-05-25 08:41:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 285.86 Mbit/s
95th percentile per-packet one-way delay: 206.697 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 205.67 Mbit/s
95th percentile per-packet one-way delay: 206.577 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 108.20 Mbit/s
95th percentile per-packet one-way delay: 205.131 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 25.13 Mbit/s
95th percentile per-packet one-way delay: 216.940 ms
Loss rate: 2.02%

Run 10: Report of PCC-Expr — Data Link

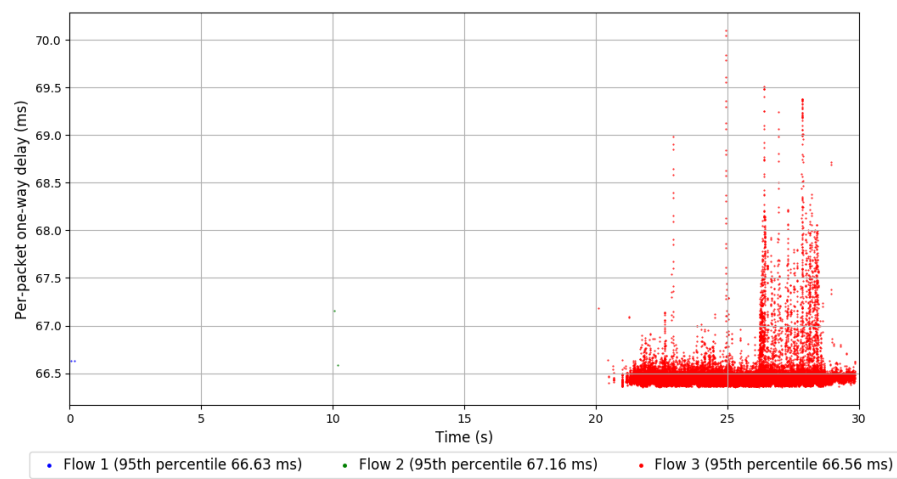
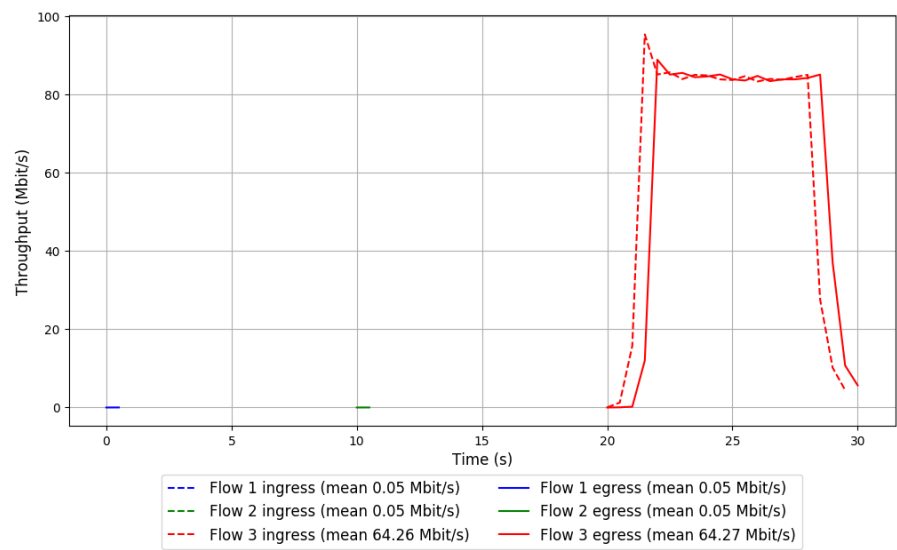


Run 1: Statistics of QUIC Cubic

Start at: 2018-05-25 03:03:28
End at: 2018-05-25 03:03:58
Local clock offset: -0.08 ms
Remote clock offset: -0.126 ms

Below is generated by plot.py at 2018-05-25 08:41:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 21.03 Mbit/s
95th percentile per-packet one-way delay: 66.565 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 66.628 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 67.158 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 64.27 Mbit/s
95th percentile per-packet one-way delay: 66.565 ms
Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-05-25 03:25:48

End at: 2018-05-25 03:26:18

Local clock offset: -0.046 ms

Remote clock offset: 0.196 ms

Below is generated by plot.py at 2018-05-25 08:41:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.31 Mbit/s

95th percentile per-packet one-way delay: 66.858 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 51.69 Mbit/s

95th percentile per-packet one-way delay: 66.835 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.99 Mbit/s

95th percentile per-packet one-way delay: 66.904 ms

Loss rate: 0.00%

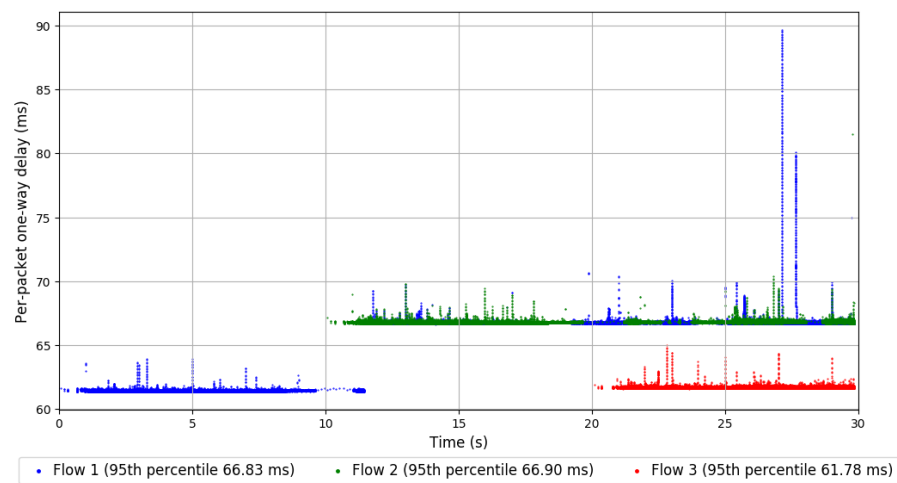
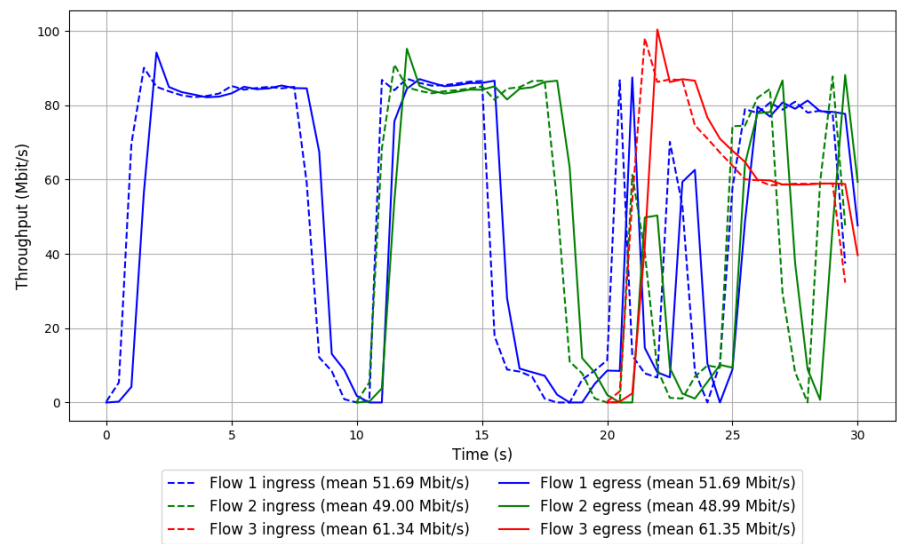
-- Flow 3:

Average throughput: 61.35 Mbit/s

95th percentile per-packet one-way delay: 61.782 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link

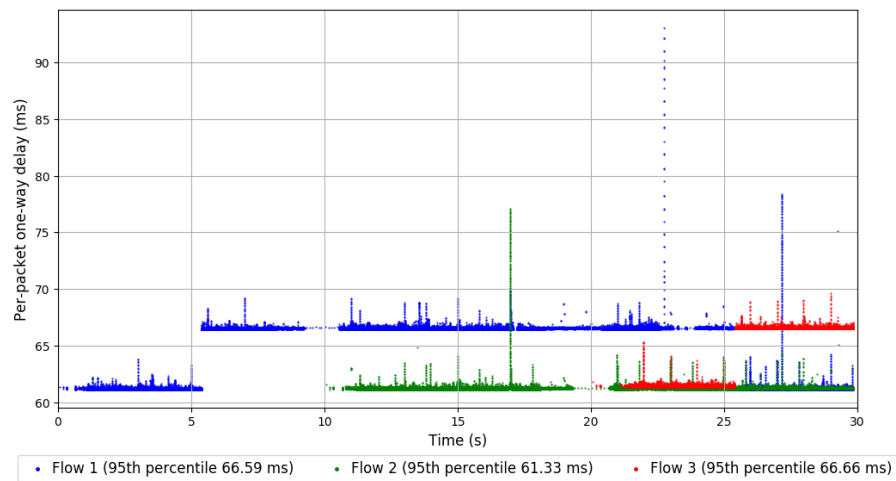
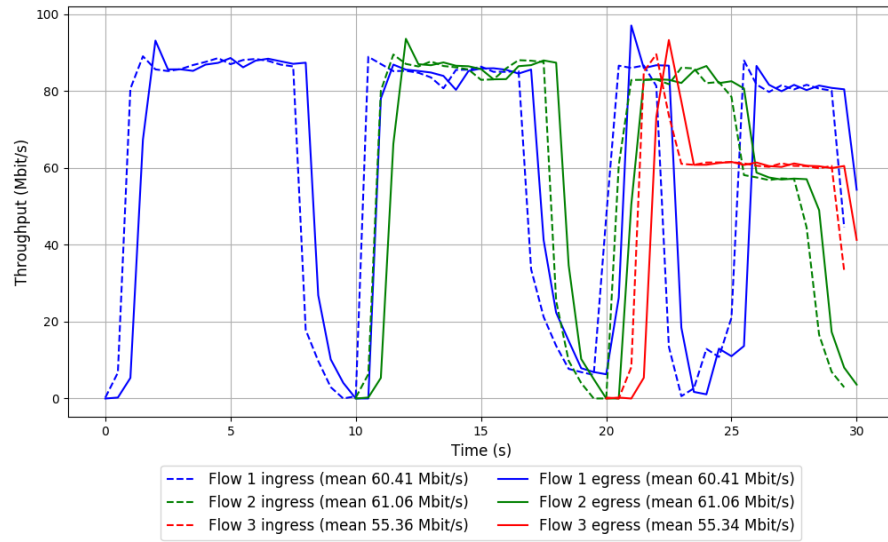


Run 3: Statistics of QUIC Cubic

Start at: 2018-05-25 03:48:24
End at: 2018-05-25 03:48:54
Local clock offset: 0.04 ms
Remote clock offset: -0.061 ms

Below is generated by plot.py at 2018-05-25 08:41:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 119.09 Mbit/s
95th percentile per-packet one-way delay: 66.605 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.41 Mbit/s
95th percentile per-packet one-way delay: 66.593 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 61.06 Mbit/s
95th percentile per-packet one-way delay: 61.332 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 55.34 Mbit/s
95th percentile per-packet one-way delay: 66.658 ms
Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link

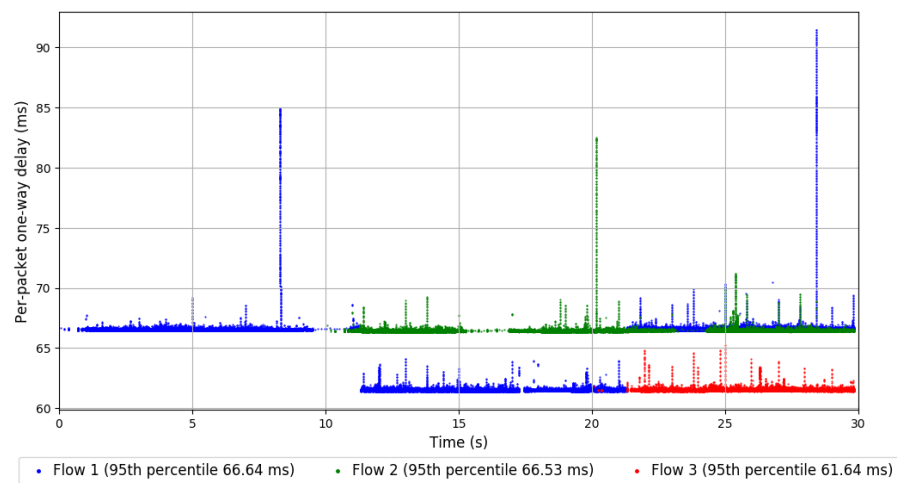
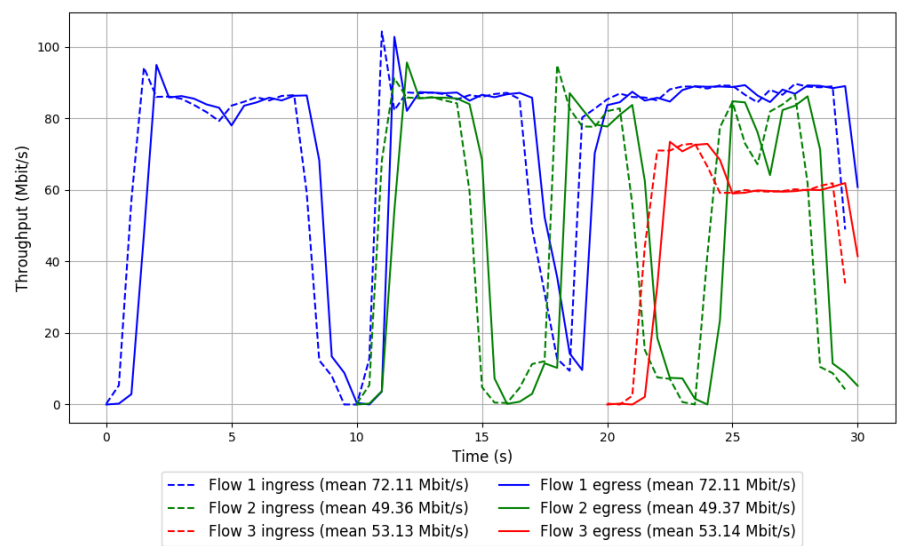


Run 4: Statistics of QUIC Cubic

Start at: 2018-05-25 04:10:58
End at: 2018-05-25 04:11:28
Local clock offset: 0.001 ms
Remote clock offset: -0.004 ms

Below is generated by plot.py at 2018-05-25 08:41:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 122.28 Mbit/s
95th percentile per-packet one-way delay: 66.609 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 72.11 Mbit/s
95th percentile per-packet one-way delay: 66.637 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 49.37 Mbit/s
95th percentile per-packet one-way delay: 66.527 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 53.14 Mbit/s
95th percentile per-packet one-way delay: 61.642 ms
Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-05-25 04:33:37

End at: 2018-05-25 04:34:07

Local clock offset: 0.001 ms

Remote clock offset: 0.284 ms

Below is generated by plot.py at 2018-05-25 08:41:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.21 Mbit/s

95th percentile per-packet one-way delay: 66.838 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 57.67 Mbit/s

95th percentile per-packet one-way delay: 66.775 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 57.97 Mbit/s

95th percentile per-packet one-way delay: 66.739 ms

Loss rate: 0.02%

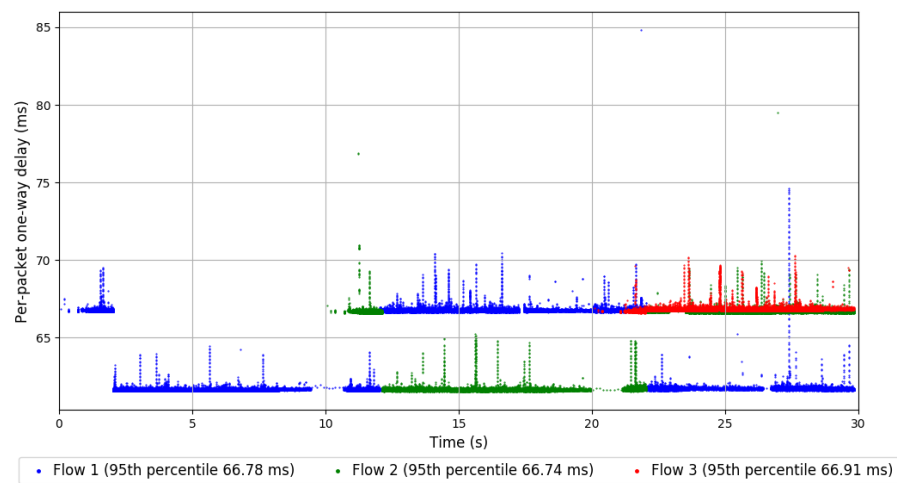
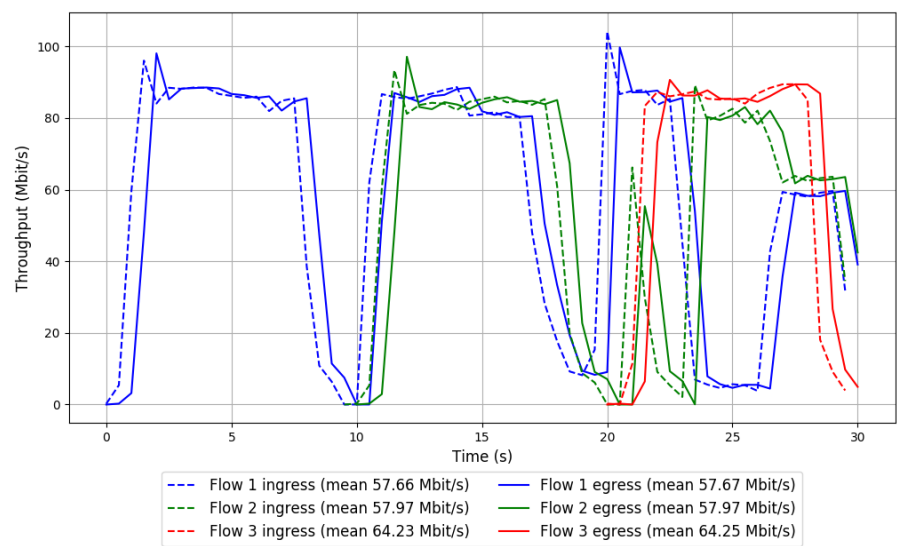
-- Flow 3:

Average throughput: 64.25 Mbit/s

95th percentile per-packet one-way delay: 66.911 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-05-25 04:56:06

End at: 2018-05-25 04:56:36

Local clock offset: -0.003 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2018-05-25 08:41:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 102.59 Mbit/s

95th percentile per-packet one-way delay: 66.692 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 53.52 Mbit/s

95th percentile per-packet one-way delay: 66.719 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 61.52 Mbit/s

95th percentile per-packet one-way delay: 61.643 ms

Loss rate: 0.00%

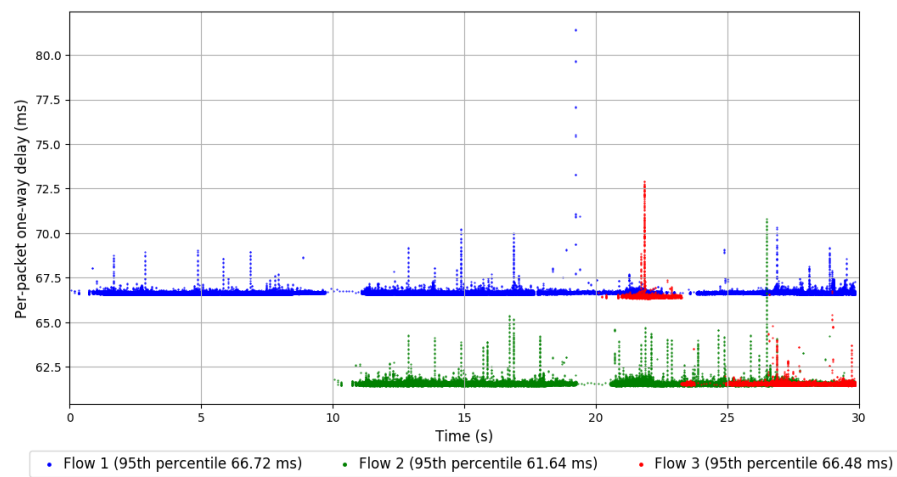
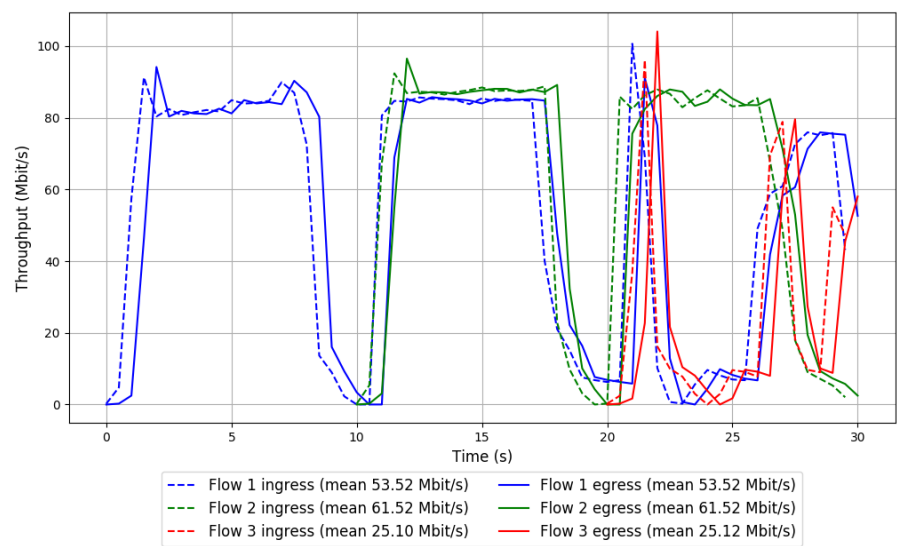
-- Flow 3:

Average throughput: 25.12 Mbit/s

95th percentile per-packet one-way delay: 66.482 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link

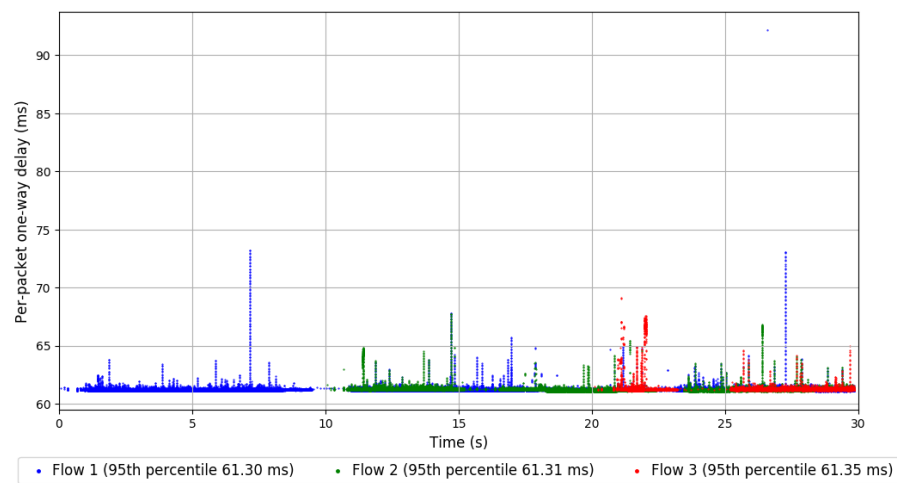
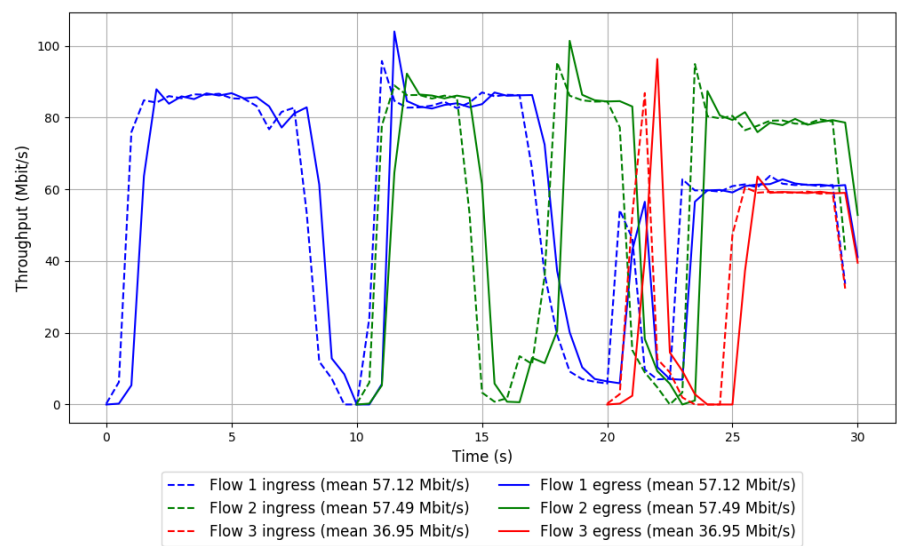


Run 7: Statistics of QUIC Cubic

Start at: 2018-05-25 05:18:31
End at: 2018-05-25 05:19:01
Local clock offset: -0.004 ms
Remote clock offset: -0.295 ms

Below is generated by plot.py at 2018-05-25 08:41:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 107.38 Mbit/s
95th percentile per-packet one-way delay: 61.312 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 57.12 Mbit/s
95th percentile per-packet one-way delay: 61.305 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 57.49 Mbit/s
95th percentile per-packet one-way delay: 61.308 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 36.95 Mbit/s
95th percentile per-packet one-way delay: 61.351 ms
Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link

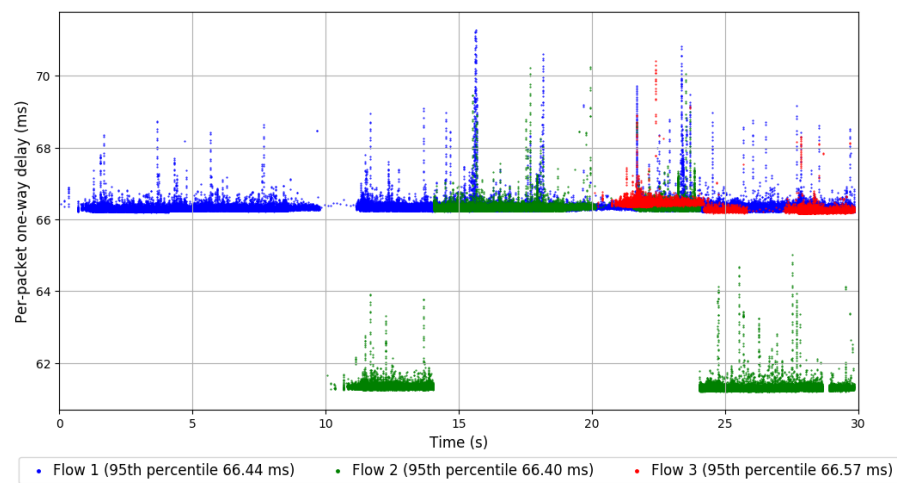
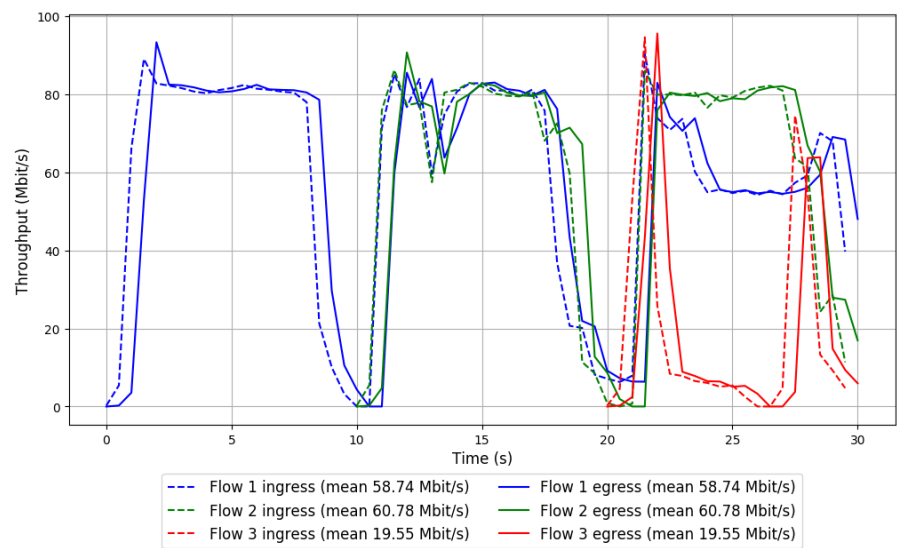


Run 8: Statistics of QUIC Cubic

Start at: 2018-05-25 05:40:45
End at: 2018-05-25 05:41:15
Local clock offset: -0.057 ms
Remote clock offset: -0.217 ms

Below is generated by plot.py at 2018-05-25 08:41:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 105.50 Mbit/s
95th percentile per-packet one-way delay: 66.450 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.74 Mbit/s
95th percentile per-packet one-way delay: 66.439 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 60.78 Mbit/s
95th percentile per-packet one-way delay: 66.400 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 19.55 Mbit/s
95th percentile per-packet one-way delay: 66.569 ms
Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link

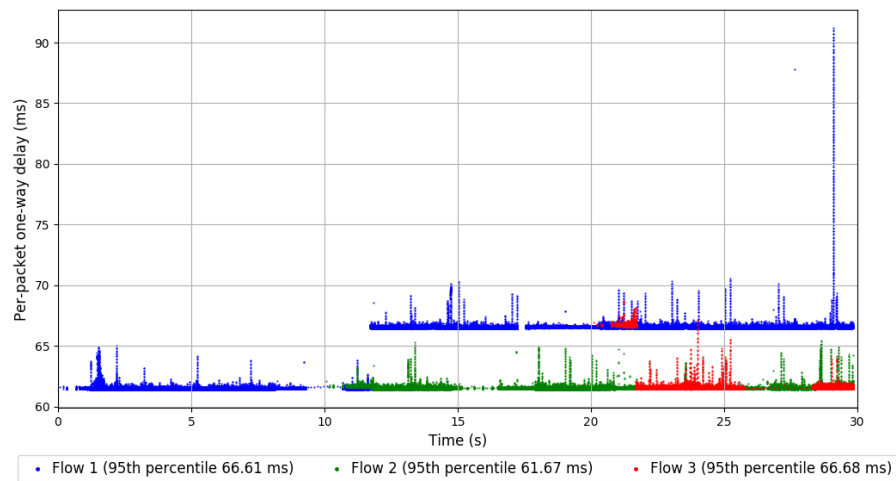
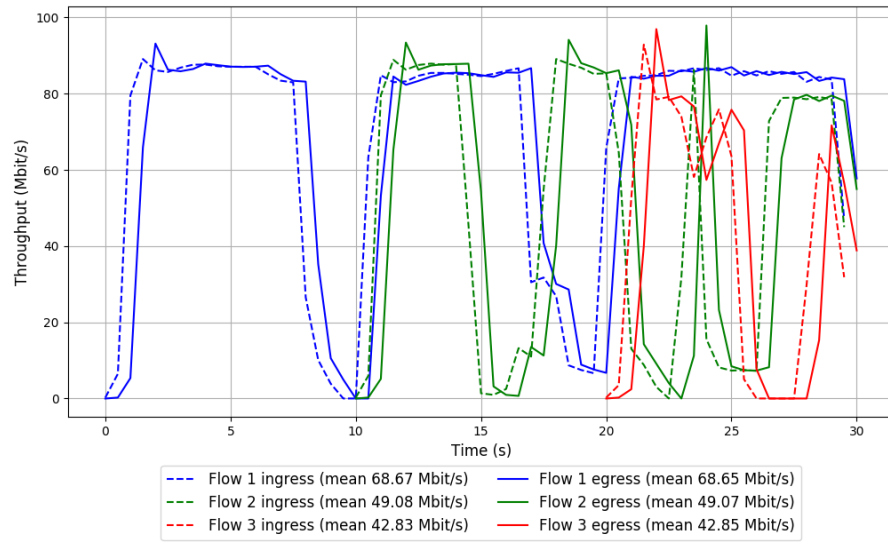


Run 9: Statistics of QUIC Cubic

Start at: 2018-05-25 06:03:28
End at: 2018-05-25 06:03:58
Local clock offset: -0.114 ms
Remote clock offset: -0.001 ms

Below is generated by plot.py at 2018-05-25 08:41:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 115.24 Mbit/s
95th percentile per-packet one-way delay: 66.598 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 68.65 Mbit/s
95th percentile per-packet one-way delay: 66.611 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 49.07 Mbit/s
95th percentile per-packet one-way delay: 61.675 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 42.85 Mbit/s
95th percentile per-packet one-way delay: 66.678 ms
Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-05-25 06:26:06

End at: 2018-05-25 06:26:36

Local clock offset: -0.068 ms

Remote clock offset: 0.07 ms

Below is generated by plot.py at 2018-05-25 08:41:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 100.97 Mbit/s

95th percentile per-packet one-way delay: 66.585 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.92 Mbit/s

95th percentile per-packet one-way delay: 61.795 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.87 Mbit/s

95th percentile per-packet one-way delay: 66.632 ms

Loss rate: 0.00%

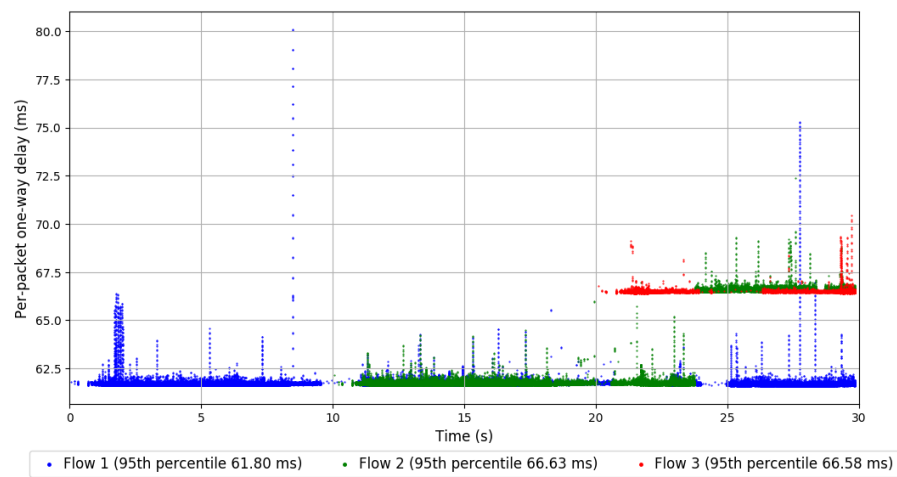
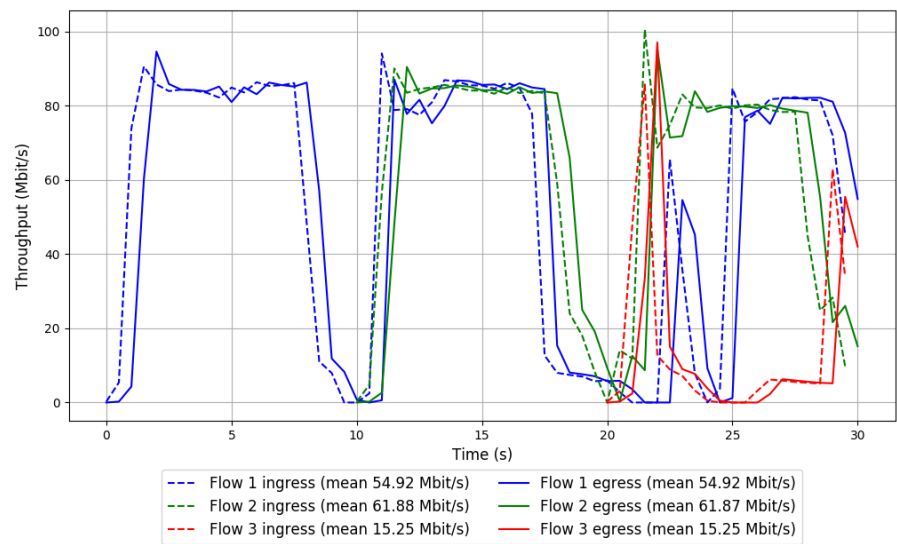
-- Flow 3:

Average throughput: 15.25 Mbit/s

95th percentile per-packet one-way delay: 66.577 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

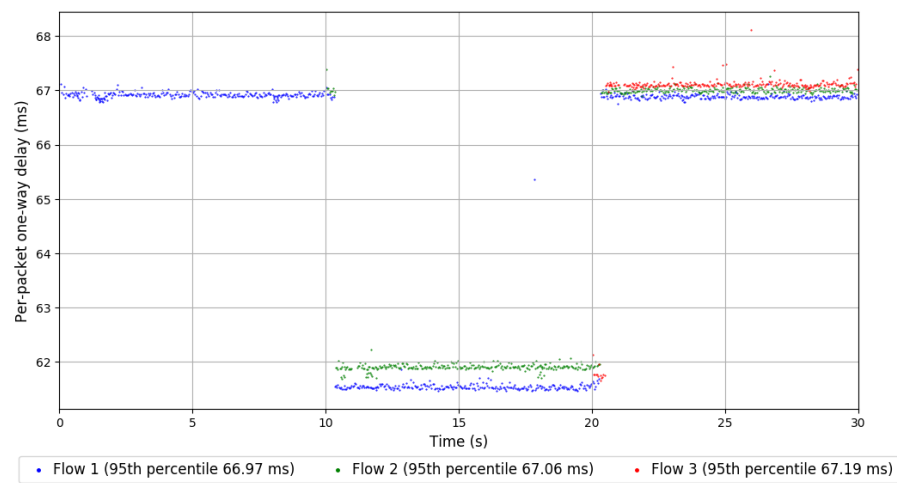
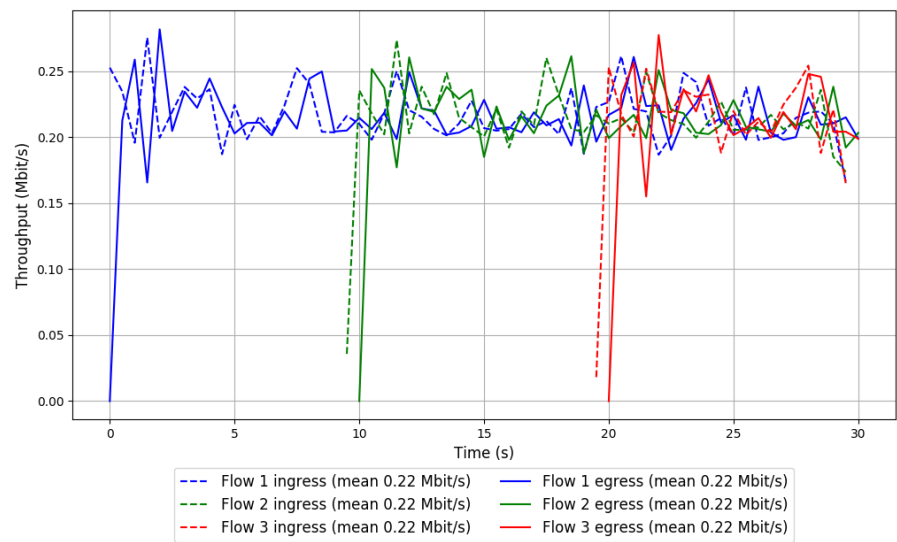


```
Run 1: Statistics of SReAM

Start at: 2018-05-25 03:02:19
End at: 2018-05-25 03:02:49
Local clock offset: -0.085 ms
Remote clock offset: 0.194 ms

# Below is generated by plot.py at 2018-05-25 08:41:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 67.119 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.973 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 67.055 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 67.192 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-05-25 03:24:39

End at: 2018-05-25 03:25:09

Local clock offset: -0.04 ms

Remote clock offset: 0.067 ms

Below is generated by plot.py at 2018-05-25 08:41:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 67.009 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 67.024 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 66.850 ms

Loss rate: 0.00%

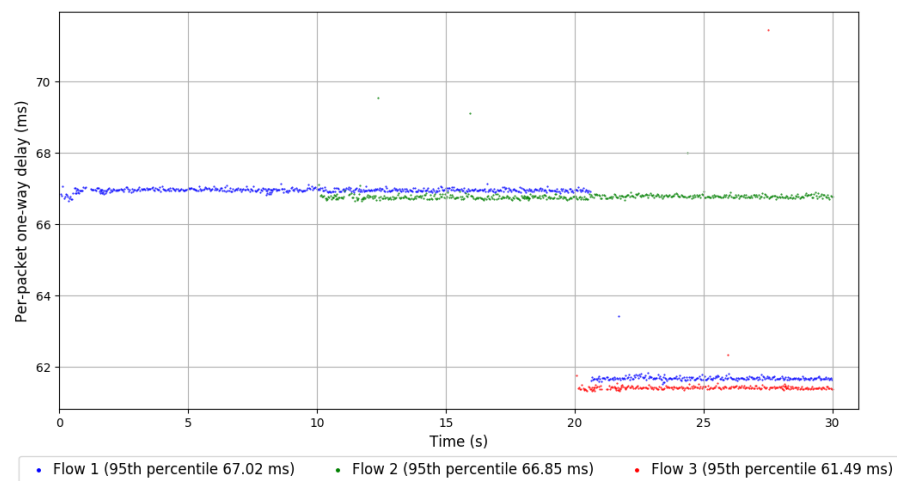
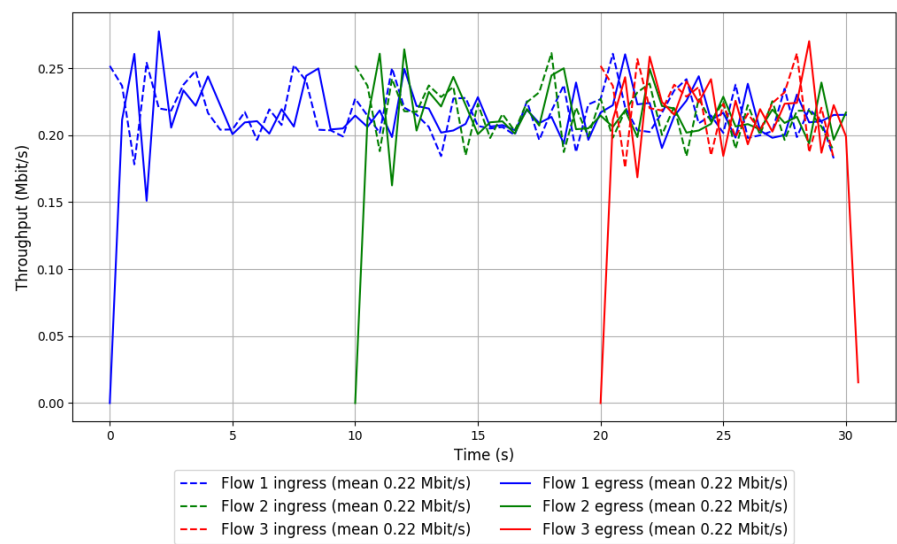
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.487 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

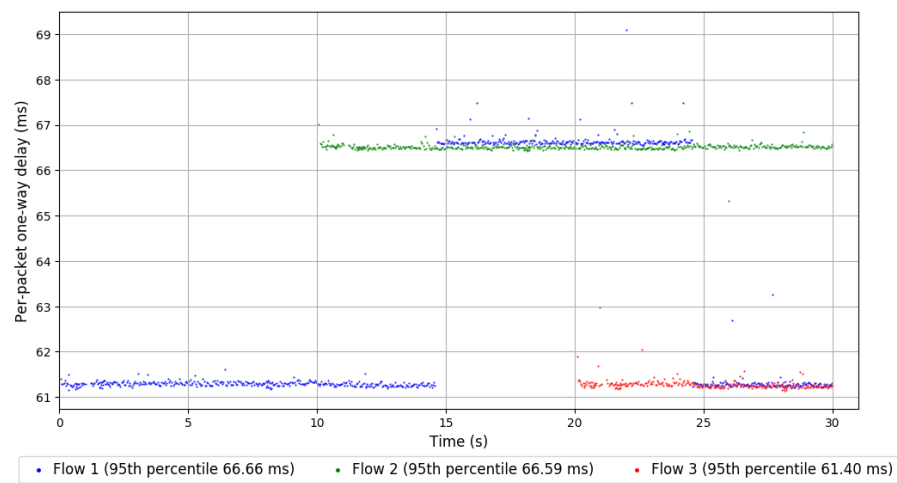
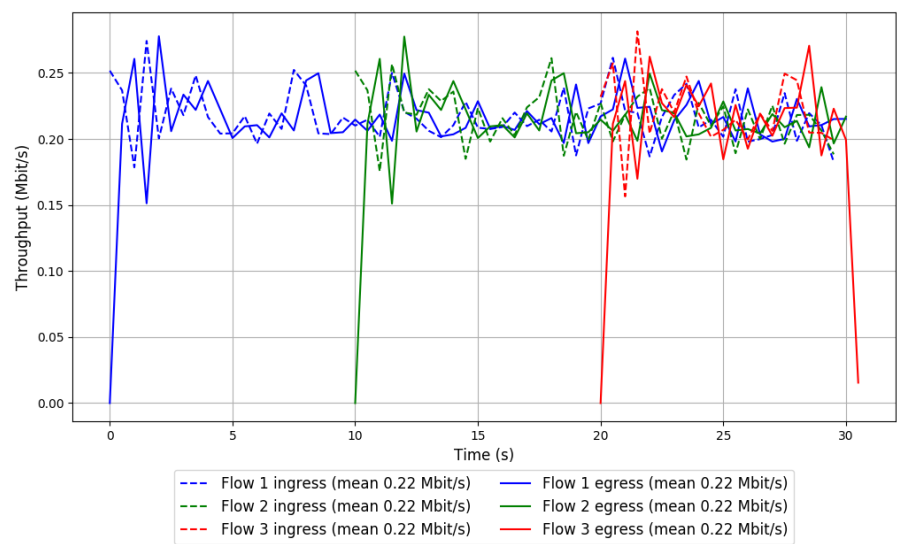


Run 3: Statistics of SReAM

Start at: 2018-05-25 03:47:15
End at: 2018-05-25 03:47:45
Local clock offset: 0.025 ms
Remote clock offset: -0.114 ms

Below is generated by plot.py at 2018-05-25 08:41:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 66.639 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.656 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.591 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.396 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-05-25 04:09:49

End at: 2018-05-25 04:10:19

Local clock offset: 0.038 ms

Remote clock offset: 0.036 ms

Below is generated by plot.py at 2018-05-25 08:41:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 66.712 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.733 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 66.761 ms

Loss rate: 0.00%

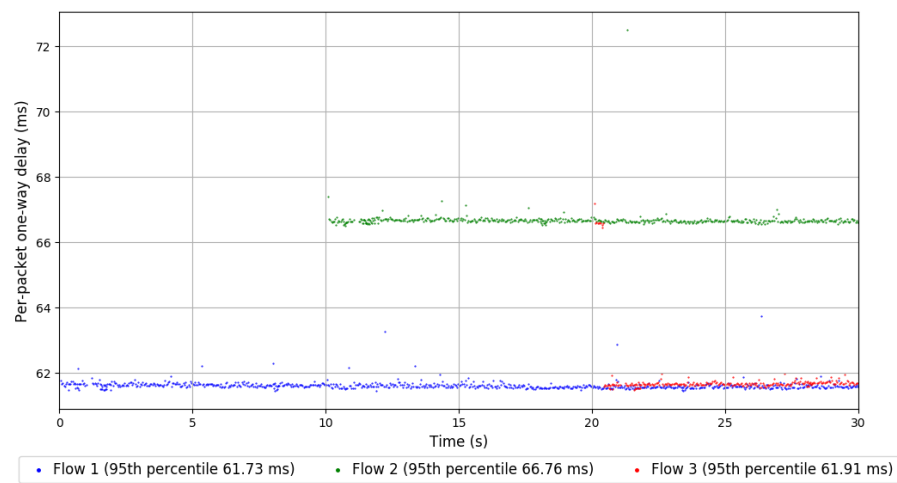
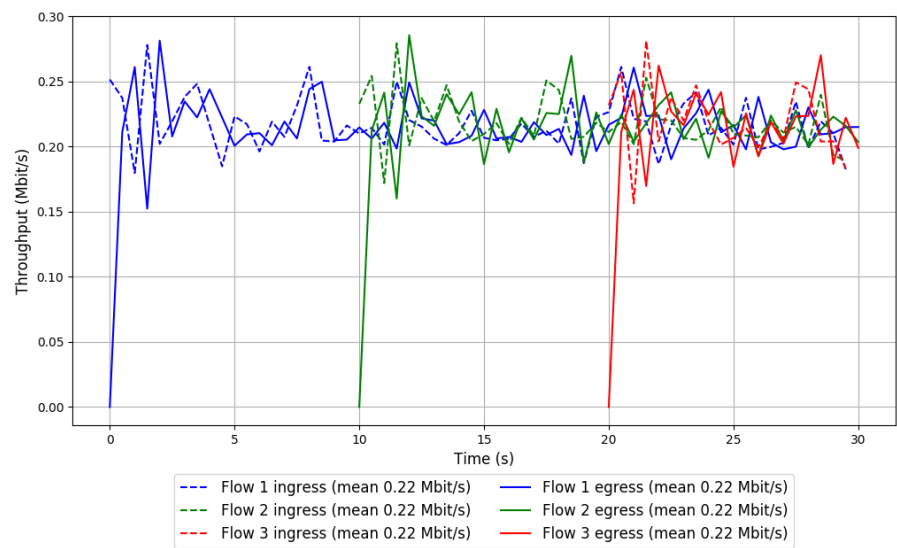
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.908 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-05-25 04:32:28

End at: 2018-05-25 04:32:58

Local clock offset: -0.043 ms

Remote clock offset: 0.131 ms

Below is generated by plot.py at 2018-05-25 08:41:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 66.859 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 66.880 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 66.566 ms

Loss rate: 0.00%

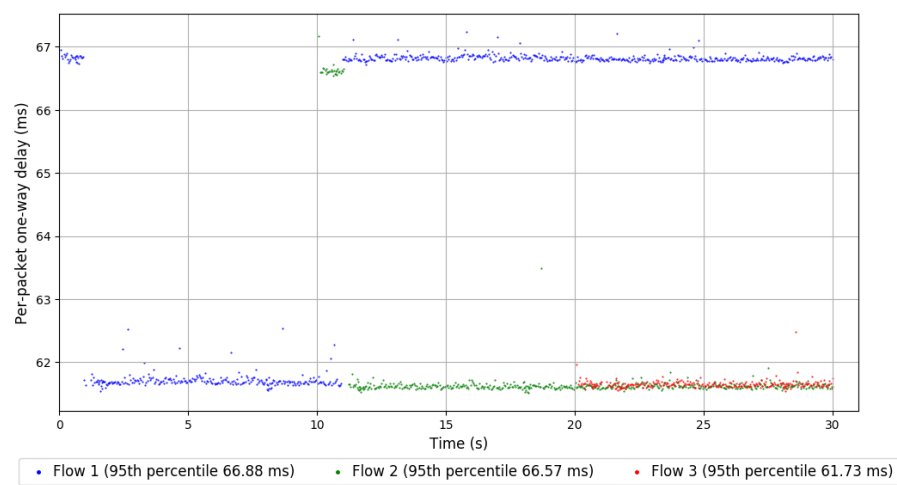
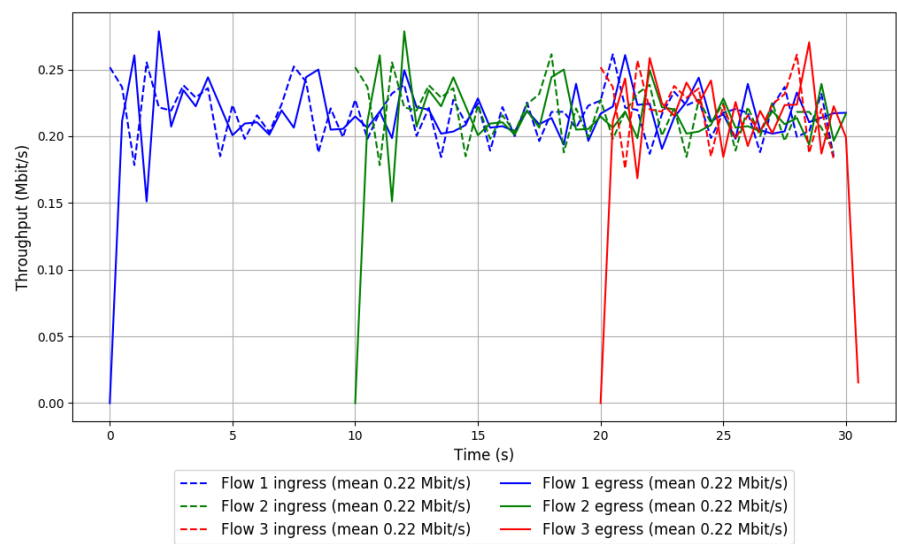
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.726 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-05-25 04:54:57

End at: 2018-05-25 04:55:27

Local clock offset: 0.033 ms

Remote clock offset: 0.294 ms

Below is generated by plot.py at 2018-05-25 08:41:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 66.923 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 66.900 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 66.955 ms

Loss rate: 0.00%

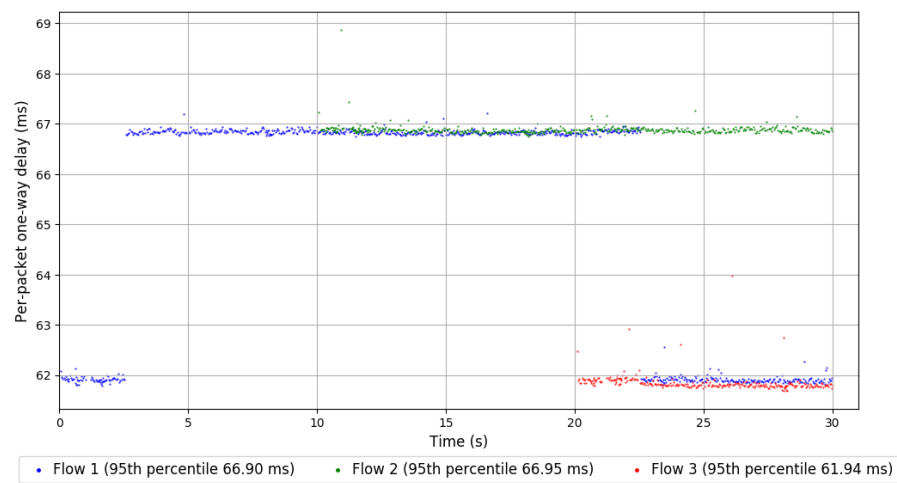
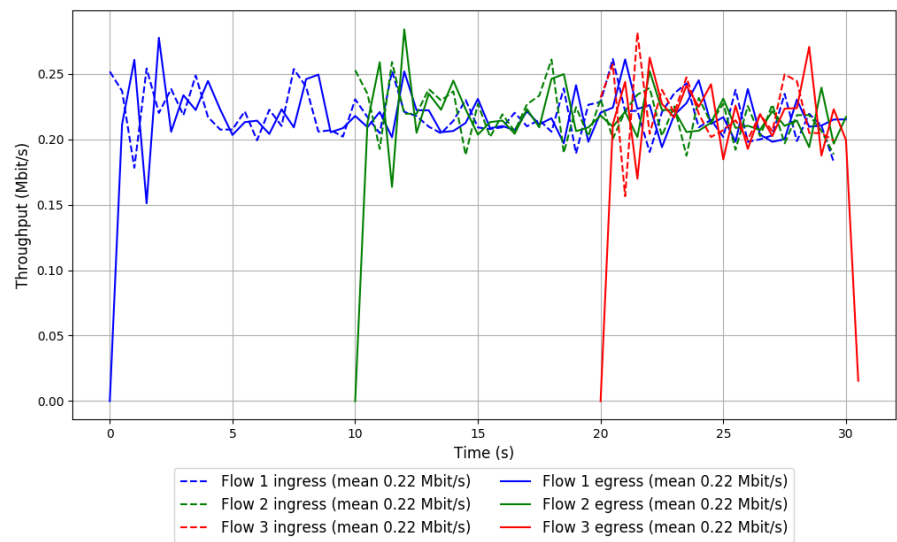
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.943 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2018-05-25 05:17:22

End at: 2018-05-25 05:17:52

Local clock offset: -0.008 ms

Remote clock offset: 0.198 ms

Below is generated by plot.py at 2018-05-25 08:41:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 66.768 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.937 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 66.811 ms

Loss rate: 0.00%

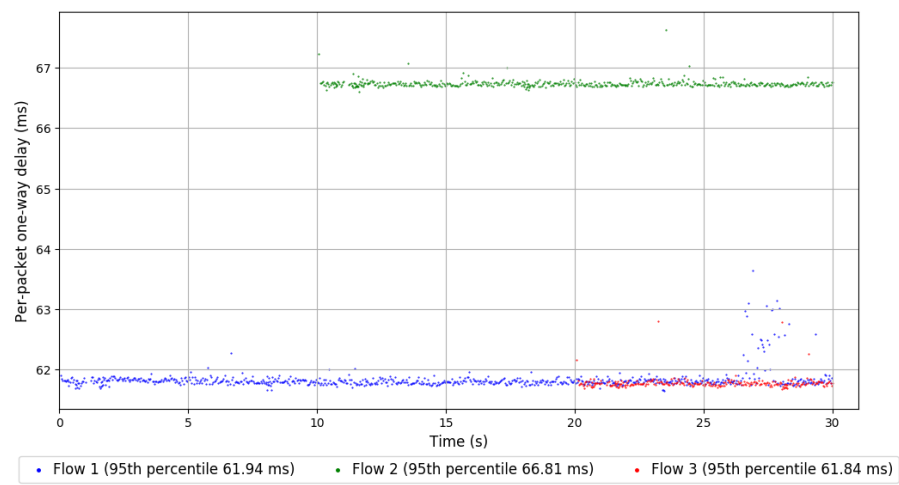
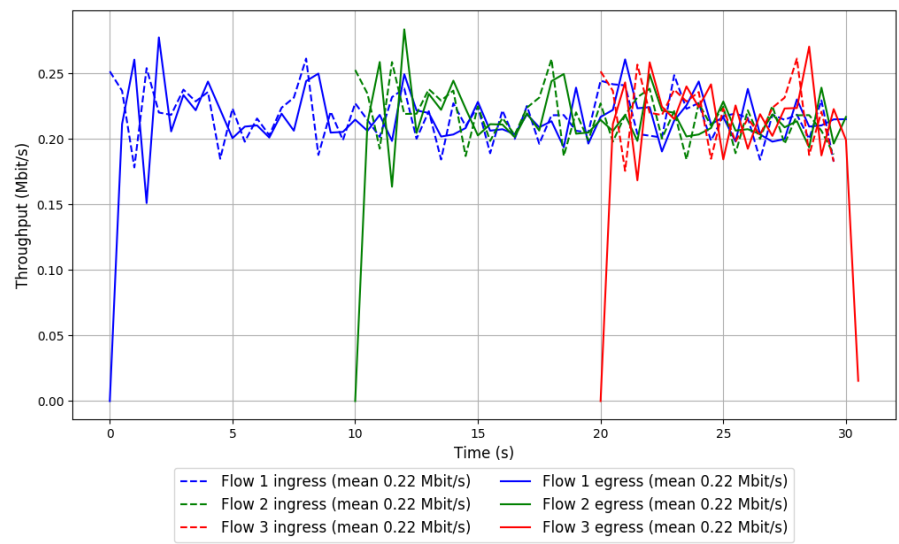
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.842 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

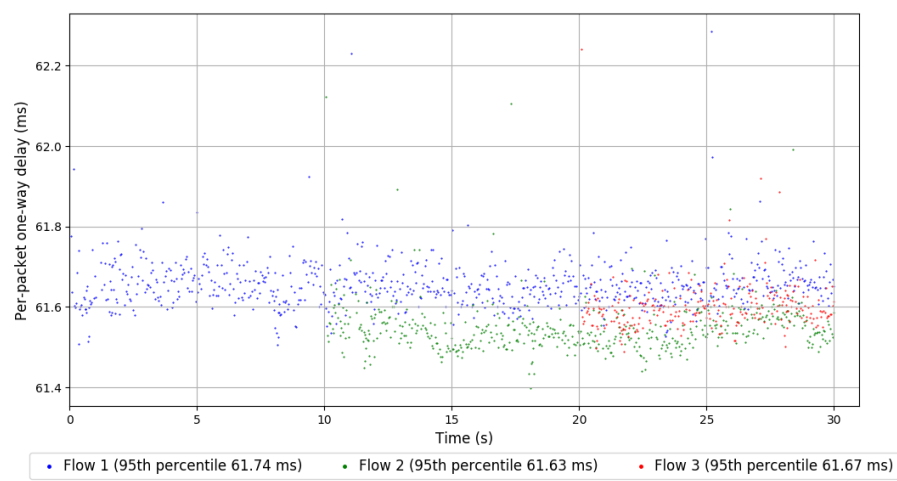
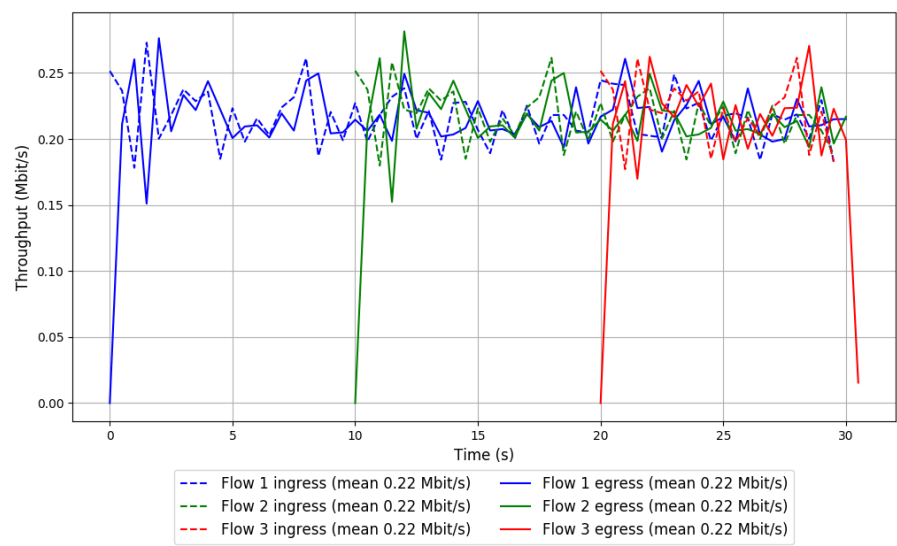


Run 8: Statistics of SReAM

Start at: 2018-05-25 05:39:36
End at: 2018-05-25 05:40:06
Local clock offset: -0.054 ms
Remote clock offset: -0.049 ms

Below is generated by plot.py at 2018-05-25 08:41:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 61.725 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.742 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.626 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.669 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

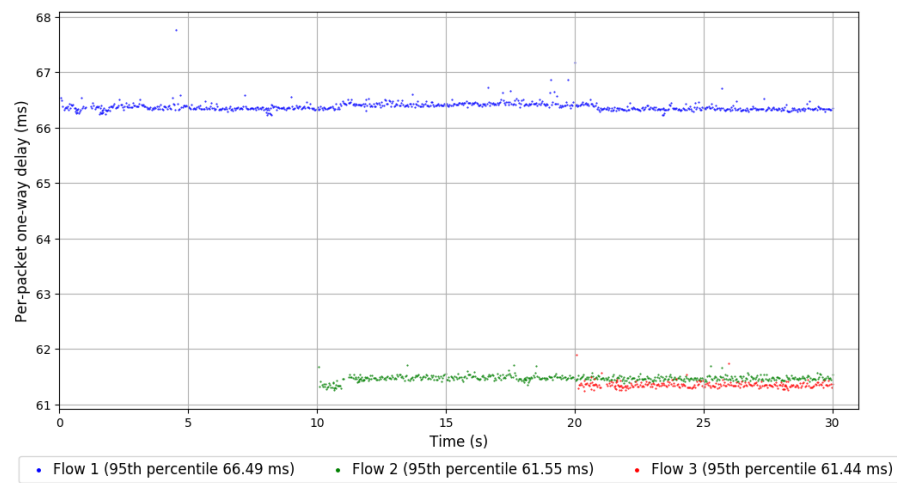
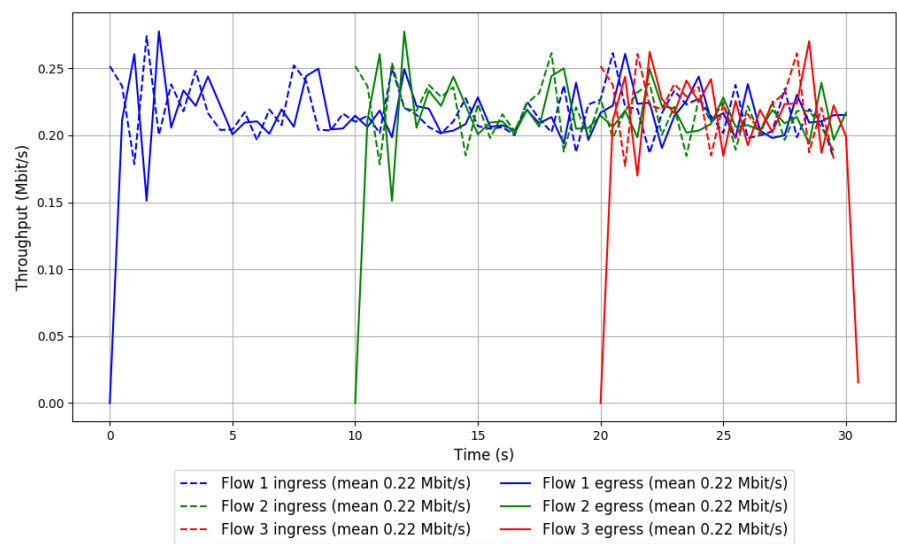


Run 9: Statistics of SReAM

Start at: 2018-05-25 06:02:19
End at: 2018-05-25 06:02:49
Local clock offset: -0.057 ms
Remote clock offset: -0.188 ms

Below is generated by plot.py at 2018-05-25 08:41:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 66.452 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.487 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.545 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.435 ms
Loss rate: 0.00%

Run 9: Report of SCReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-05-25 06:24:57

End at: 2018-05-25 06:25:27

Local clock offset: -0.085 ms

Remote clock offset: 0.225 ms

Below is generated by plot.py at 2018-05-25 08:41:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 64.427 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 62.057 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 66.831 ms

Loss rate: 0.00%

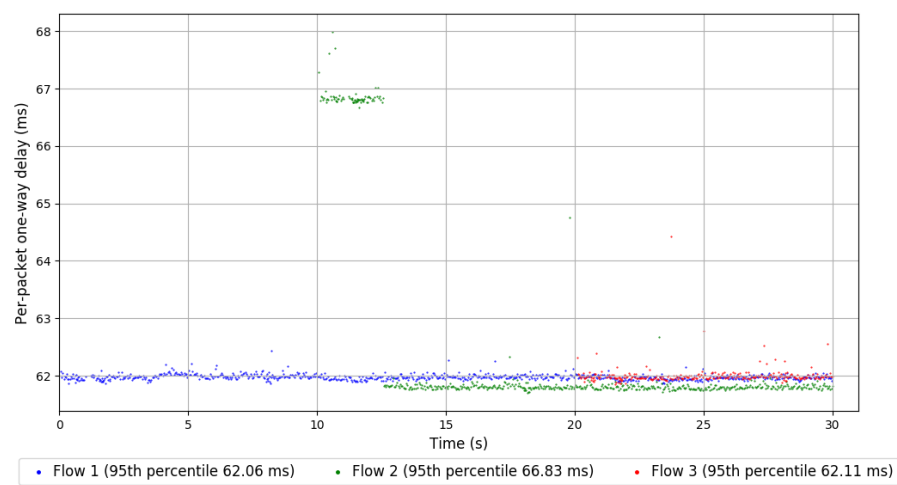
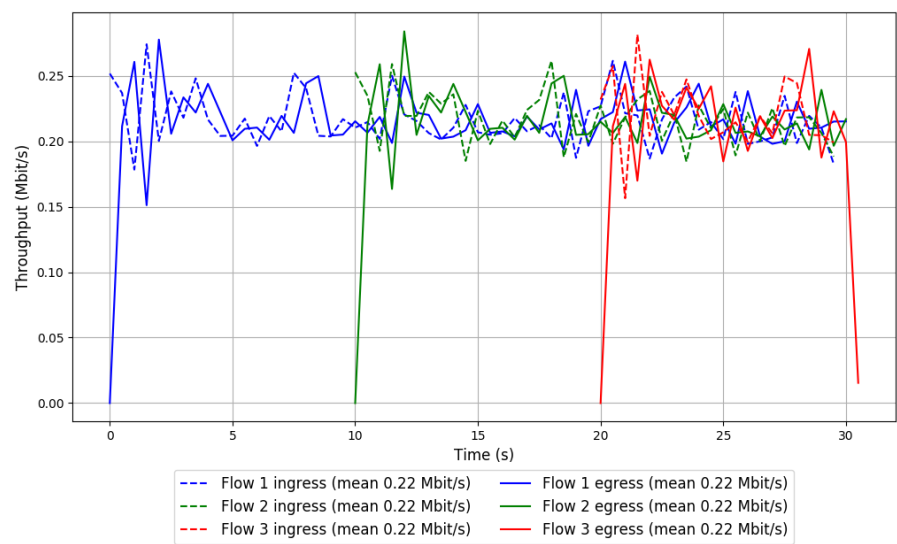
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 62.113 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-05-25 03:16:23

End at: 2018-05-25 03:16:53

Local clock offset: -0.031 ms

Remote clock offset: -0.0 ms

Below is generated by plot.py at 2018-05-25 08:41:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.40 Mbit/s

95th percentile per-packet one-way delay: 67.671 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 4.73 Mbit/s

95th percentile per-packet one-way delay: 67.702 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 66.848 ms

Loss rate: 0.00%

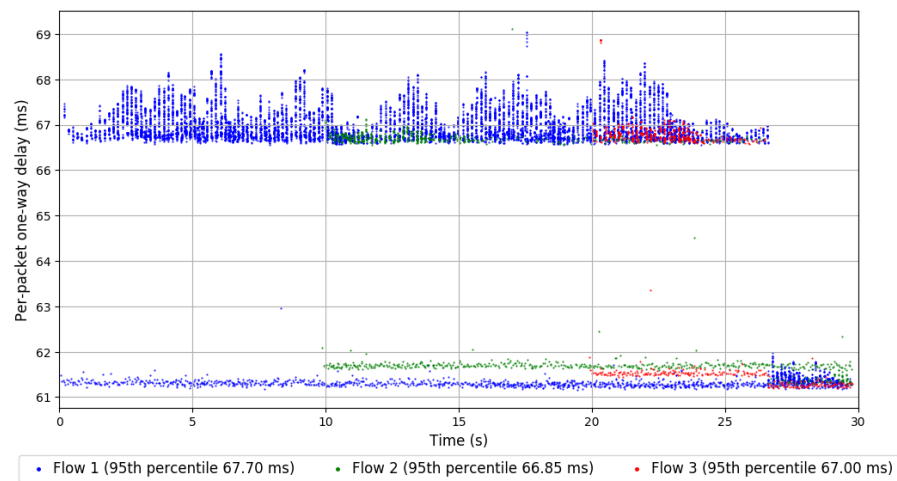
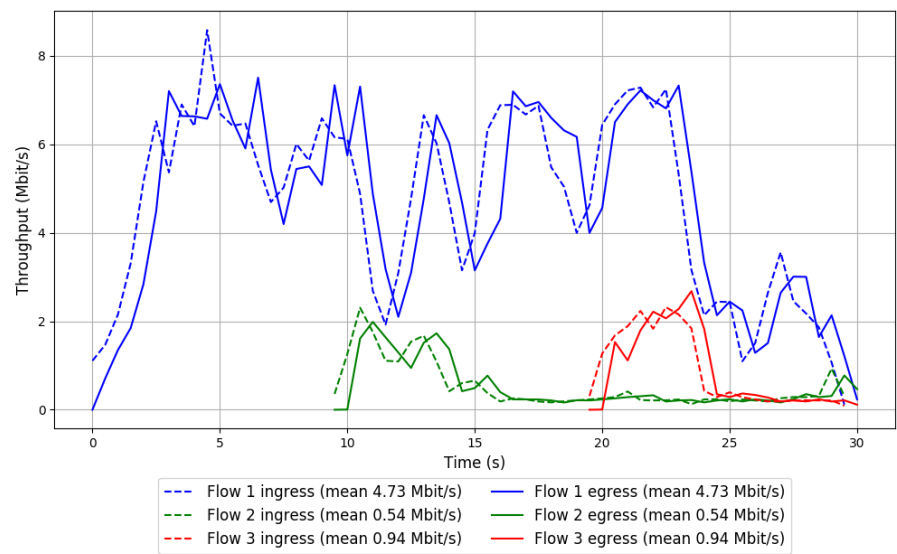
-- Flow 3:

Average throughput: 0.94 Mbit/s

95th percentile per-packet one-way delay: 67.001 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

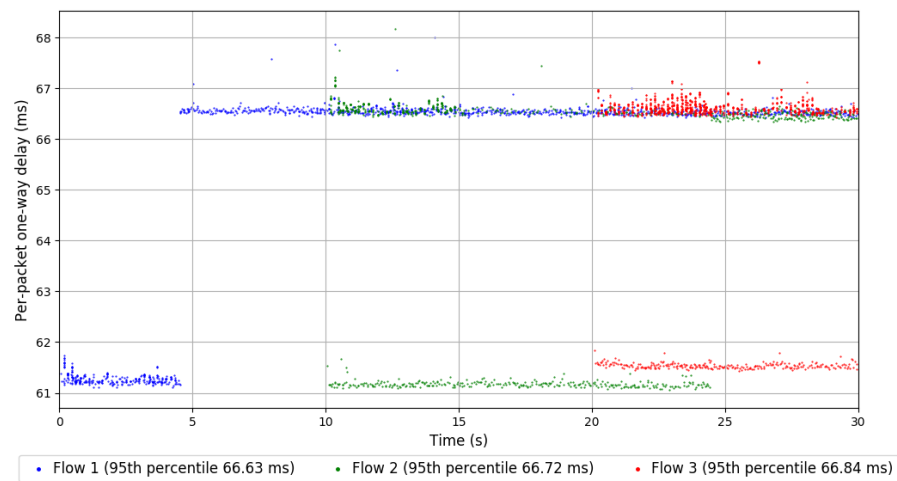
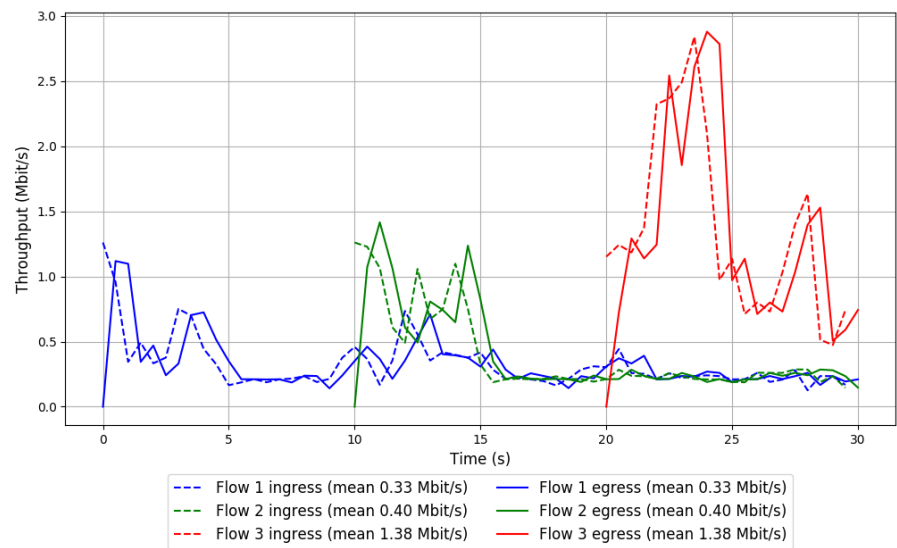


Run 2: Statistics of Sprout

Start at: 2018-05-25 03:39:05
End at: 2018-05-25 03:39:35
Local clock offset: 0.034 ms
Remote clock offset: -0.155 ms

Below is generated by plot.py at 2018-05-25 08:41:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.05 Mbit/s
95th percentile per-packet one-way delay: 66.763 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 66.631 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 66.715 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.38 Mbit/s
95th percentile per-packet one-way delay: 66.838 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

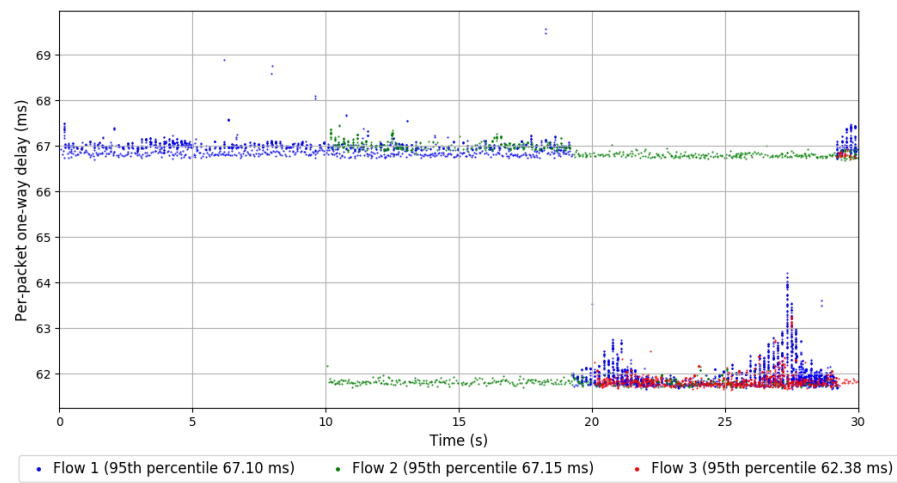
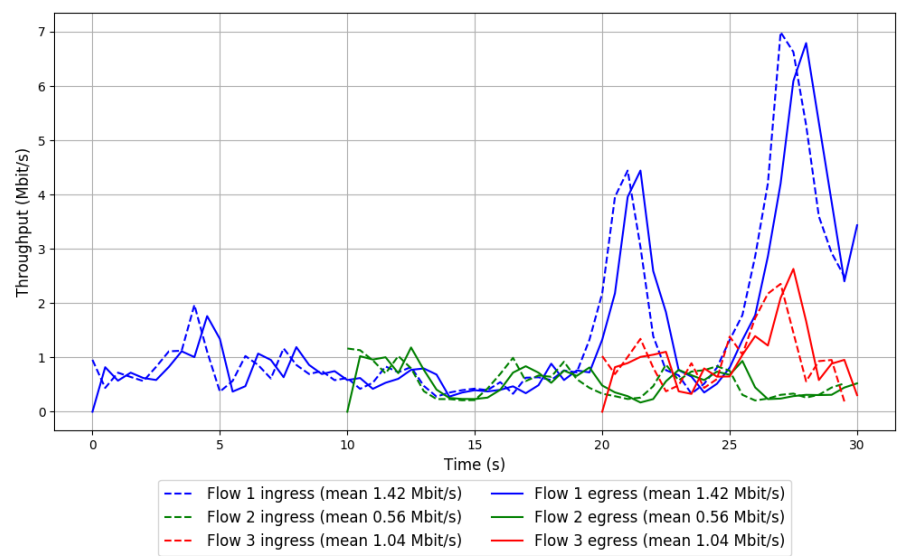


Run 3: Statistics of Sprout

Start at: 2018-05-25 04:01:40
End at: 2018-05-25 04:02:10
Local clock offset: 0.085 ms
Remote clock offset: 0.251 ms

```
# Below is generated by plot.py at 2018-05-25 08:41:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 67.094 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 67.102 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 67.151 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.04 Mbit/s
95th percentile per-packet one-way delay: 62.378 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

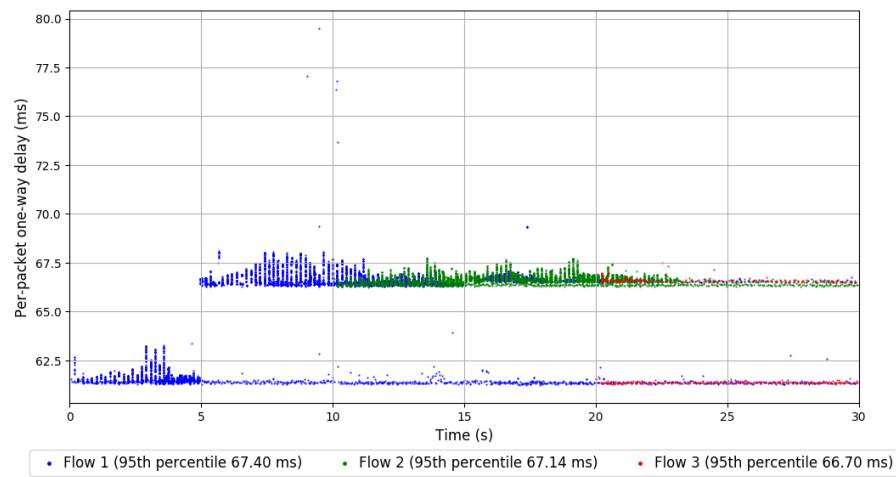
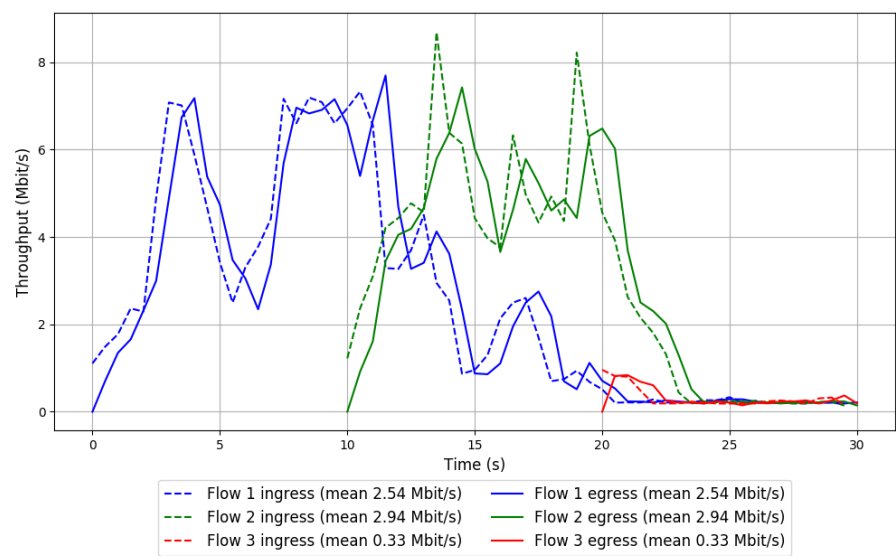


Run 4: Statistics of Sprout

Start at: 2018-05-25 04:24:14
End at: 2018-05-25 04:24:44
Local clock offset: -0.027 ms
Remote clock offset: -0.164 ms

```
# Below is generated by plot.py at 2018-05-25 08:41:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.60 Mbit/s
95th percentile per-packet one-way delay: 67.276 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.54 Mbit/s
95th percentile per-packet one-way delay: 67.402 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.94 Mbit/s
95th percentile per-packet one-way delay: 67.136 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 66.698 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

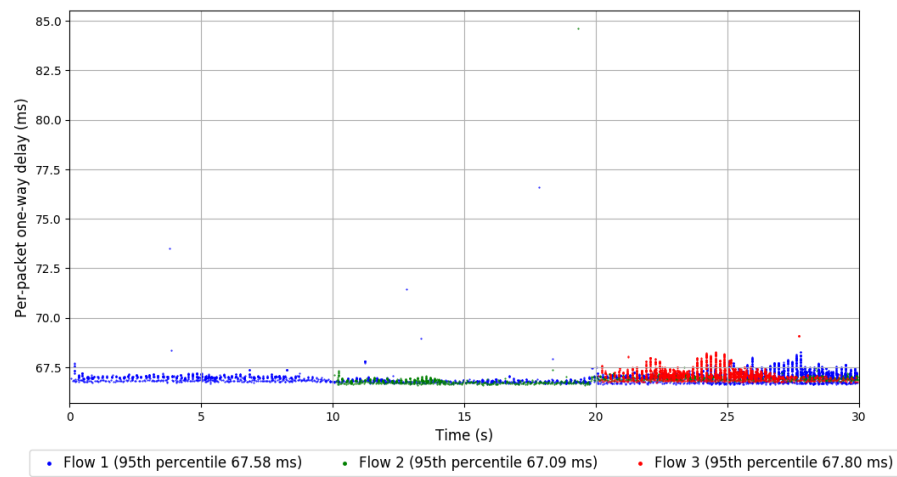
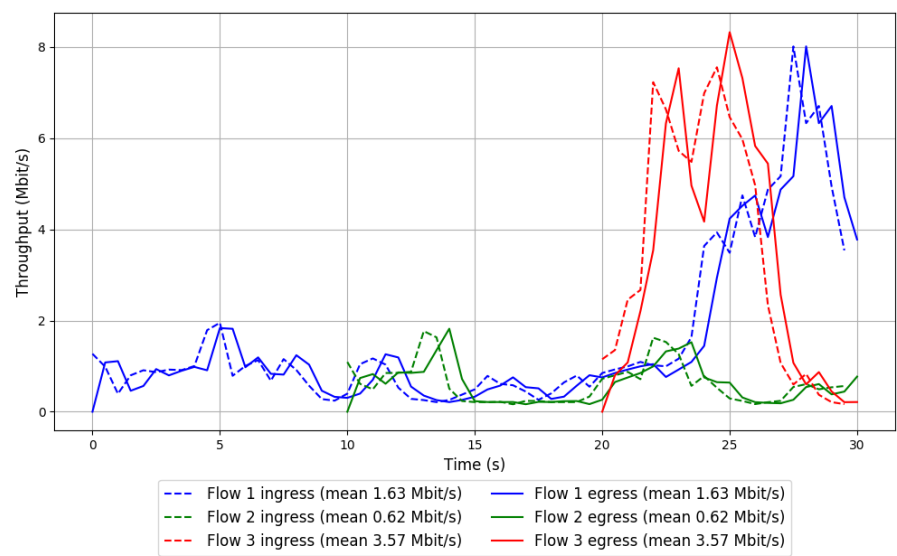


Run 5: Statistics of Sprout

Start at: 2018-05-25 04:46:50
End at: 2018-05-25 04:47:20
Local clock offset: -0.014 ms
Remote clock offset: 0.187 ms

```
# Below is generated by plot.py at 2018-05-25 08:41:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.22 Mbit/s
95th percentile per-packet one-way delay: 67.651 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.63 Mbit/s
95th percentile per-packet one-way delay: 67.582 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 67.089 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.57 Mbit/s
95th percentile per-packet one-way delay: 67.797 ms
Loss rate: 0.00%
```


Run 5: Report of Sprout — Data Link

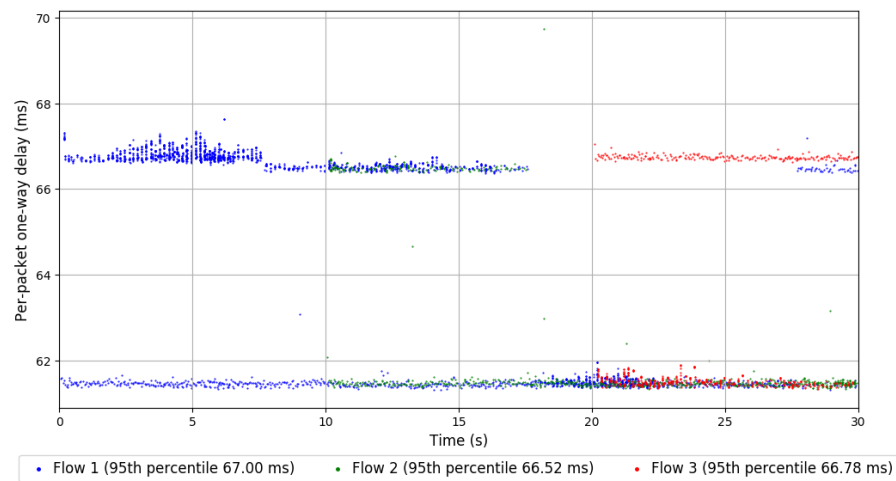
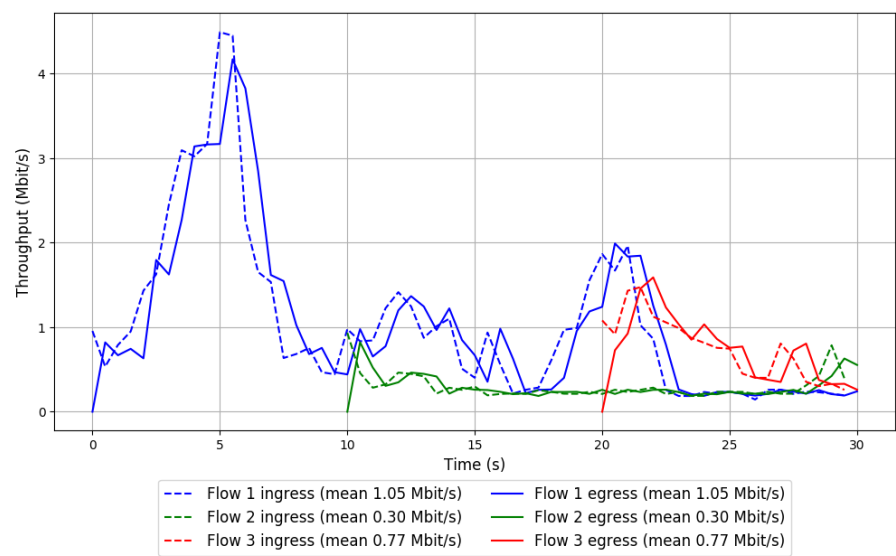


Run 6: Statistics of Sprout

Start at: 2018-05-25 05:09:12
End at: 2018-05-25 05:09:42
Local clock offset: 0.014 ms
Remote clock offset: -0.166 ms

Below is generated by plot.py at 2018-05-25 08:41:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.51 Mbit/s
95th percentile per-packet one-way delay: 66.937 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.05 Mbit/s
95th percentile per-packet one-way delay: 67.001 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 66.524 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.77 Mbit/s
95th percentile per-packet one-way delay: 66.782 ms
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

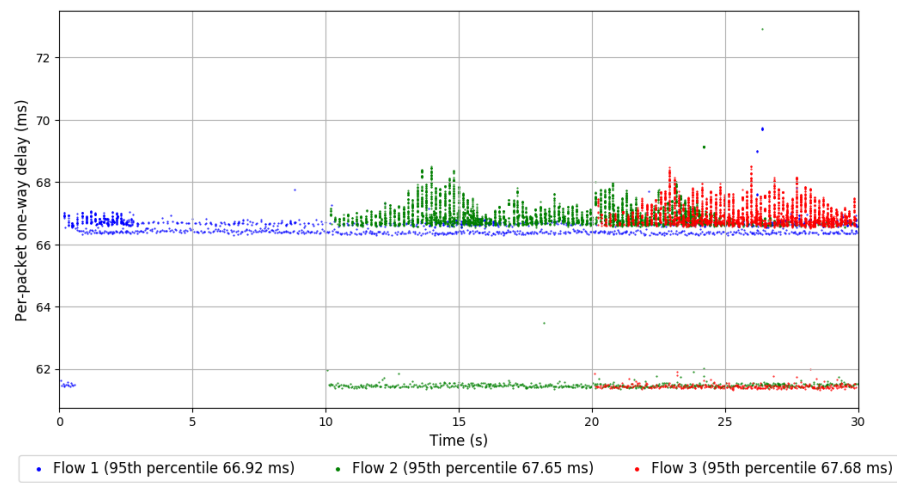
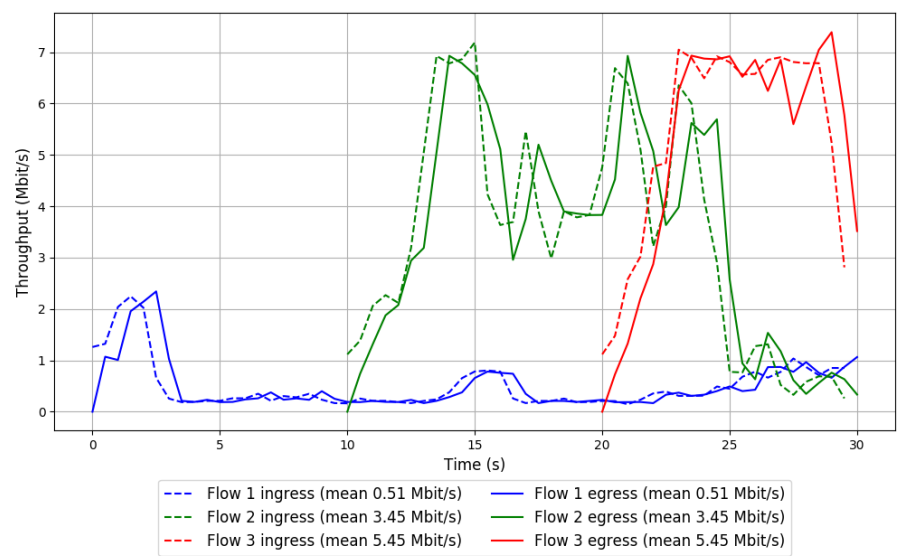


Run 7: Statistics of Sprout

Start at: 2018-05-25 05:31:29
End at: 2018-05-25 05:31:59
Local clock offset: -0.036 ms
Remote clock offset: -0.122 ms

Below is generated by plot.py at 2018-05-25 08:41:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.59 Mbit/s
95th percentile per-packet one-way delay: 67.637 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 66.924 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.45 Mbit/s
95th percentile per-packet one-way delay: 67.647 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.45 Mbit/s
95th percentile per-packet one-way delay: 67.679 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

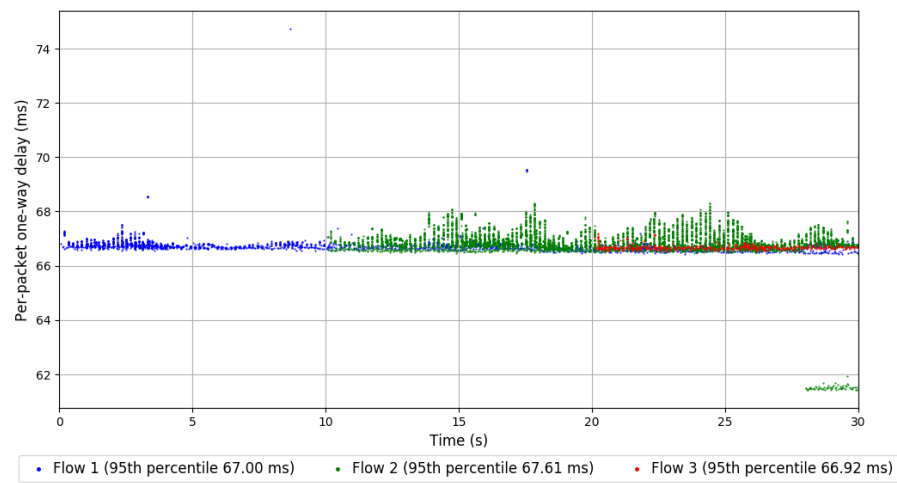
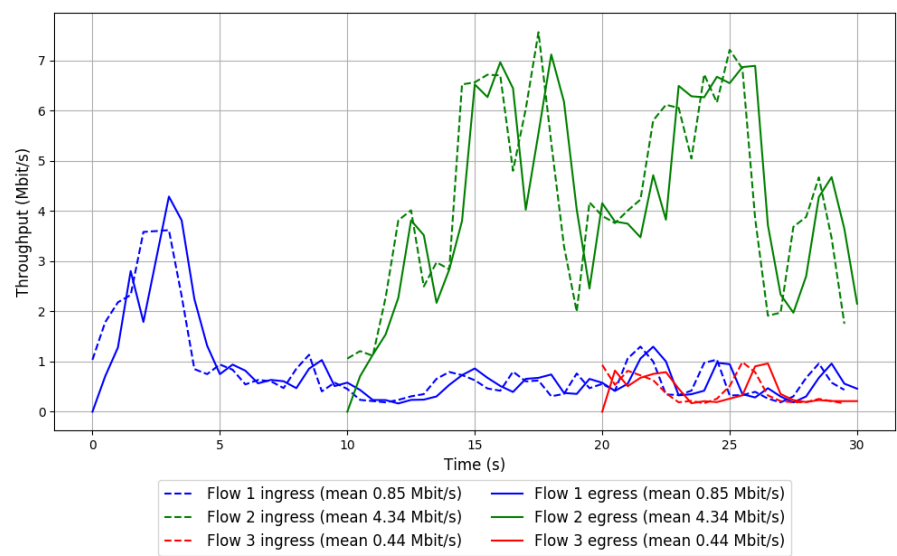


Run 8: Statistics of Sprout

Start at: 2018-05-25 05:54:02
End at: 2018-05-25 05:54:32
Local clock offset: -0.066 ms
Remote clock offset: -0.038 ms

```
# Below is generated by plot.py at 2018-05-25 08:41:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 67.519 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.85 Mbit/s
95th percentile per-packet one-way delay: 67.005 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: 67.615 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 66.915 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link

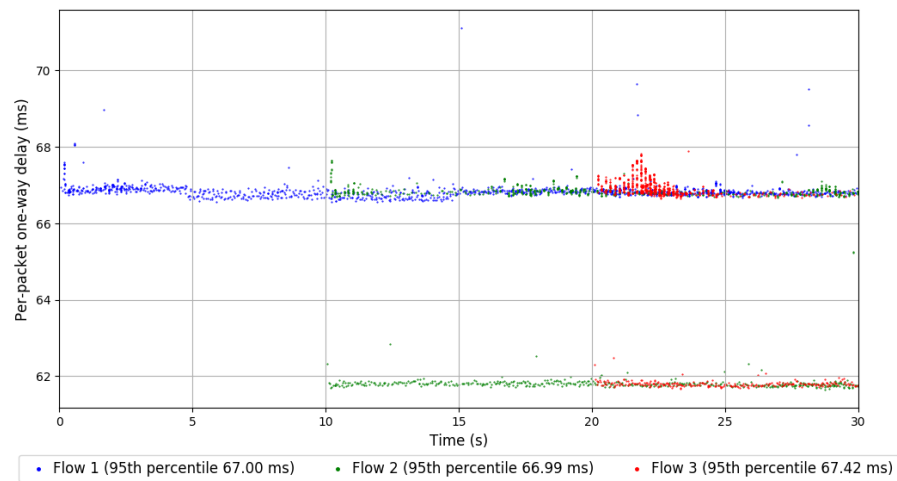
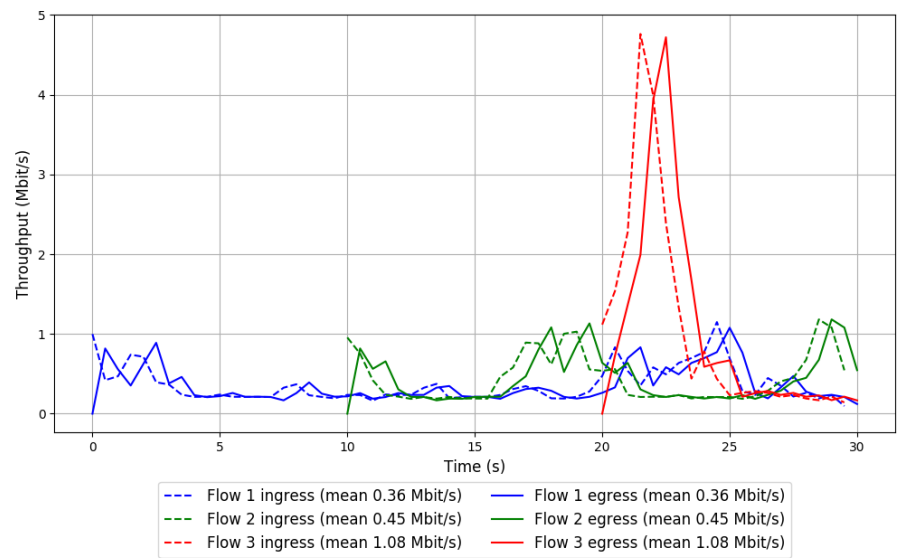


Run 9: Statistics of Sprout

Start at: 2018-05-25 06:16:45
End at: 2018-05-25 06:17:15
Local clock offset: -0.098 ms
Remote clock offset: 0.108 ms

Below is generated by plot.py at 2018-05-25 08:41:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.02 Mbit/s
95th percentile per-packet one-way delay: 67.171 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 67.005 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 66.988 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.08 Mbit/s
95th percentile per-packet one-way delay: 67.416 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-05-25 06:39:28

End at: 2018-05-25 06:39:58

Local clock offset: -0.063 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2018-05-25 08:41:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.80 Mbit/s

95th percentile per-packet one-way delay: 66.928 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.67 Mbit/s

95th percentile per-packet one-way delay: 67.181 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.66 Mbit/s

95th percentile per-packet one-way delay: 66.487 ms

Loss rate: 0.00%

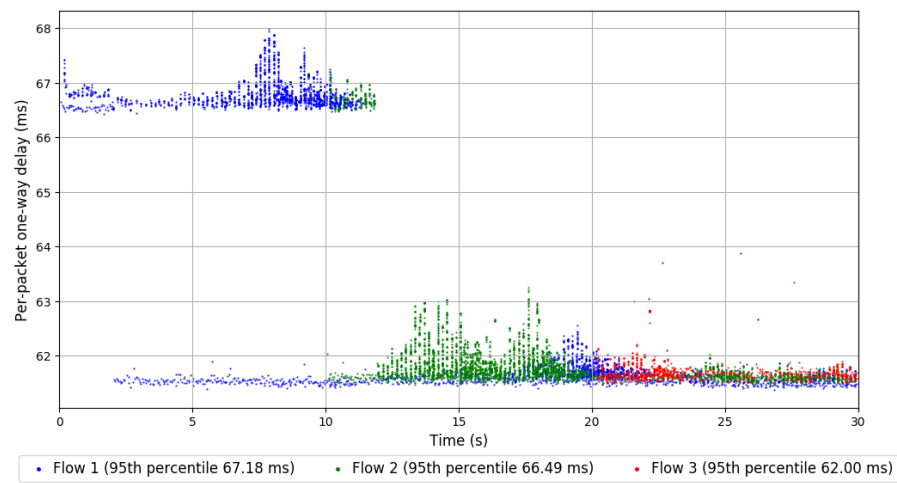
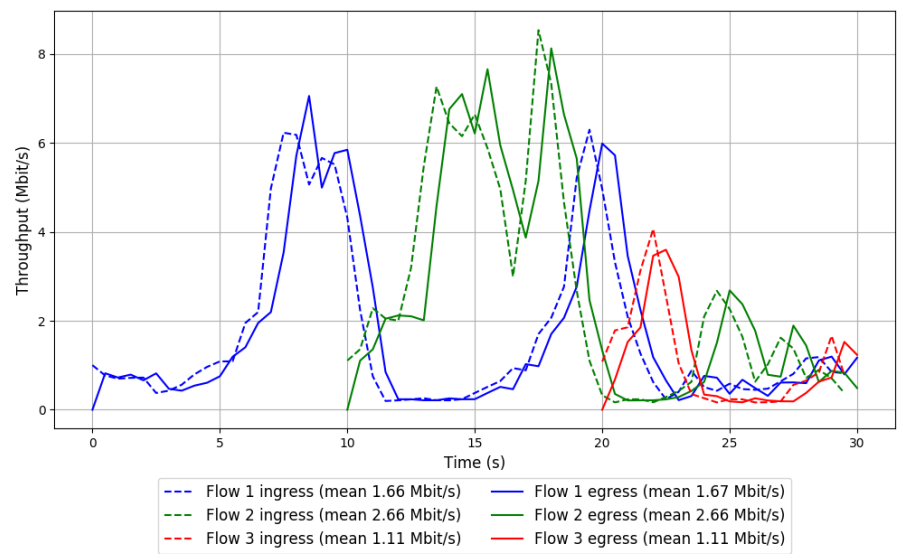
-- Flow 3:

Average throughput: 1.11 Mbit/s

95th percentile per-packet one-way delay: 61.996 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

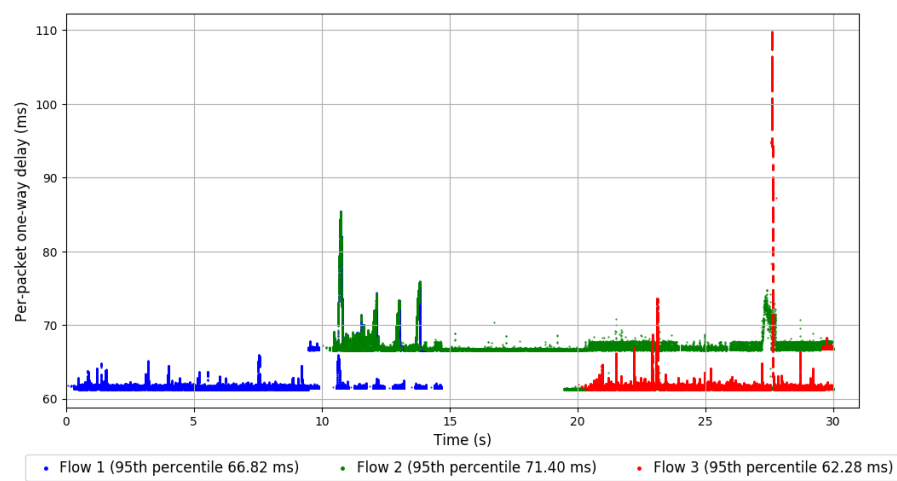
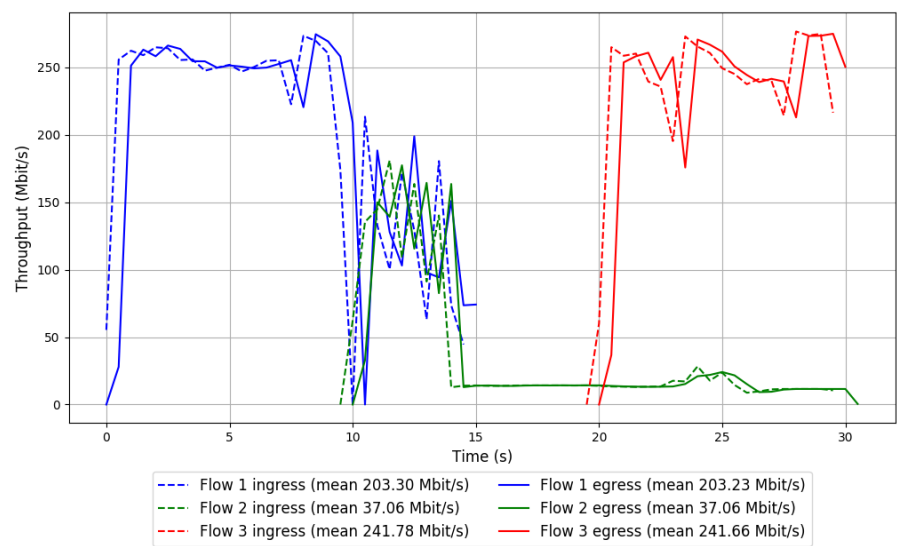


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-05-25 03:05:50
End at: 2018-05-25 03:06:20
Local clock offset: -0.093 ms
Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2018-05-25 08:44:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 203.56 Mbit/s
95th percentile per-packet one-way delay: 66.949 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 203.23 Mbit/s
95th percentile per-packet one-way delay: 66.822 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.06 Mbit/s
95th percentile per-packet one-way delay: 71.403 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 241.66 Mbit/s
95th percentile per-packet one-way delay: 62.278 ms
Loss rate: 0.00%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-05-25 03:28:14

End at: 2018-05-25 03:28:44

Local clock offset: -0.044 ms

Remote clock offset: 0.219 ms

Below is generated by plot.py at 2018-05-25 08:45:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 227.03 Mbit/s

95th percentile per-packet one-way delay: 67.199 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 145.18 Mbit/s

95th percentile per-packet one-way delay: 67.157 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 94.46 Mbit/s

95th percentile per-packet one-way delay: 67.105 ms

Loss rate: 0.01%

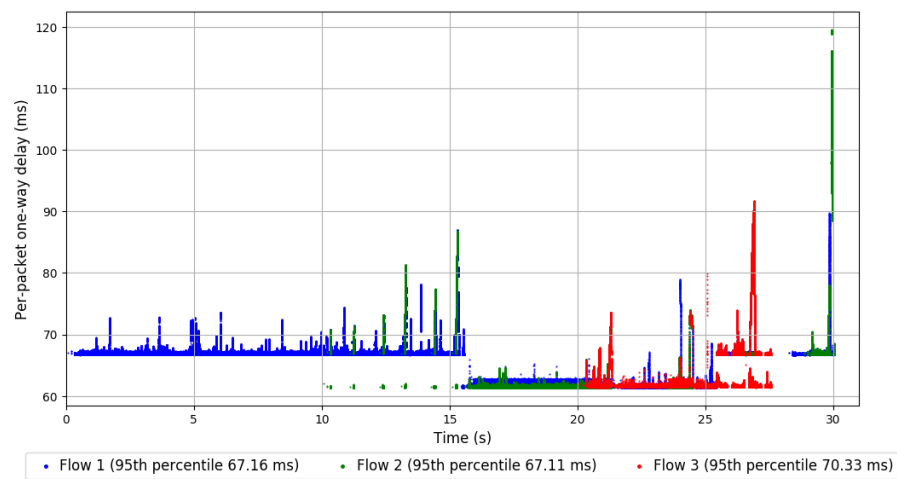
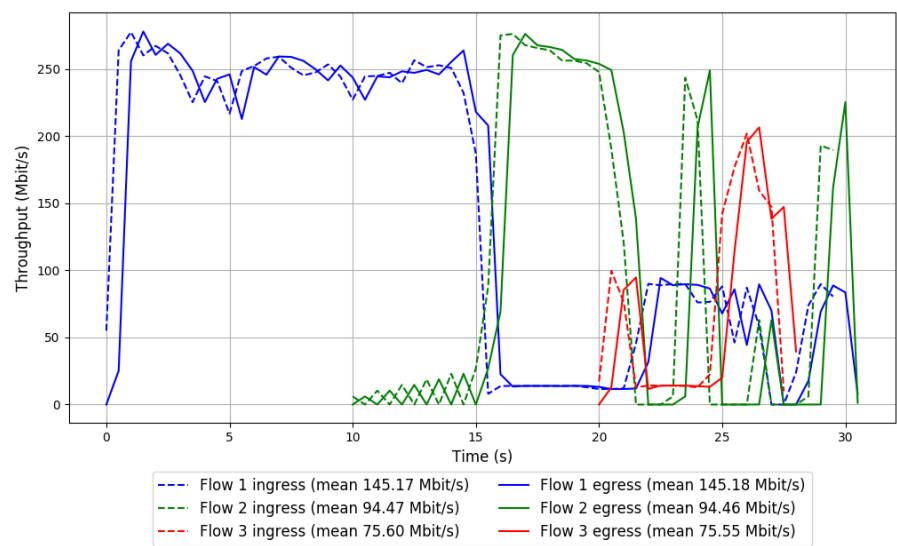
-- Flow 3:

Average throughput: 75.55 Mbit/s

95th percentile per-packet one-way delay: 70.327 ms

Loss rate: 0.00%

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

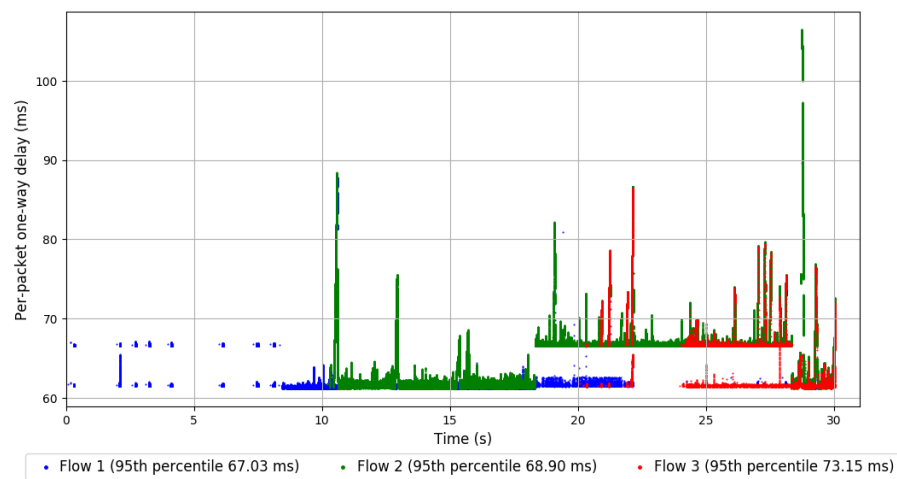
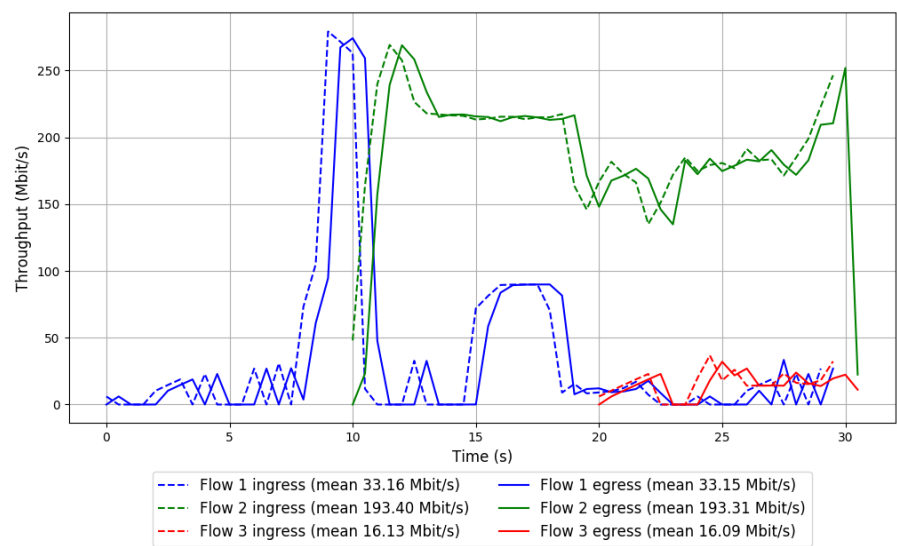


Run 3: Statistics of TaoVA-100x

Start at: 2018-05-25 03:50:51
End at: 2018-05-25 03:51:21
Local clock offset: 0.027 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2018-05-25 08:45:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 166.46 Mbit/s
95th percentile per-packet one-way delay: 68.905 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 33.15 Mbit/s
95th percentile per-packet one-way delay: 67.028 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 193.31 Mbit/s
95th percentile per-packet one-way delay: 68.898 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 16.09 Mbit/s
95th percentile per-packet one-way delay: 73.149 ms
Loss rate: 0.20%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-05-25 04:13:26

End at: 2018-05-25 04:13:56

Local clock offset: -0.022 ms

Remote clock offset: 0.091 ms

Below is generated by plot.py at 2018-05-25 08:45:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.96 Mbit/s

95th percentile per-packet one-way delay: 66.633 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 109.66 Mbit/s

95th percentile per-packet one-way delay: 63.254 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 15.79 Mbit/s

95th percentile per-packet one-way delay: 66.816 ms

Loss rate: 0.00%

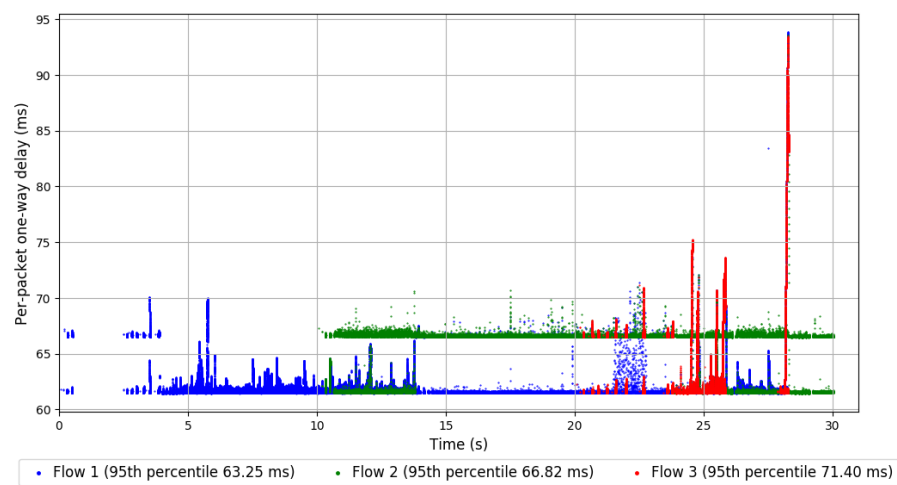
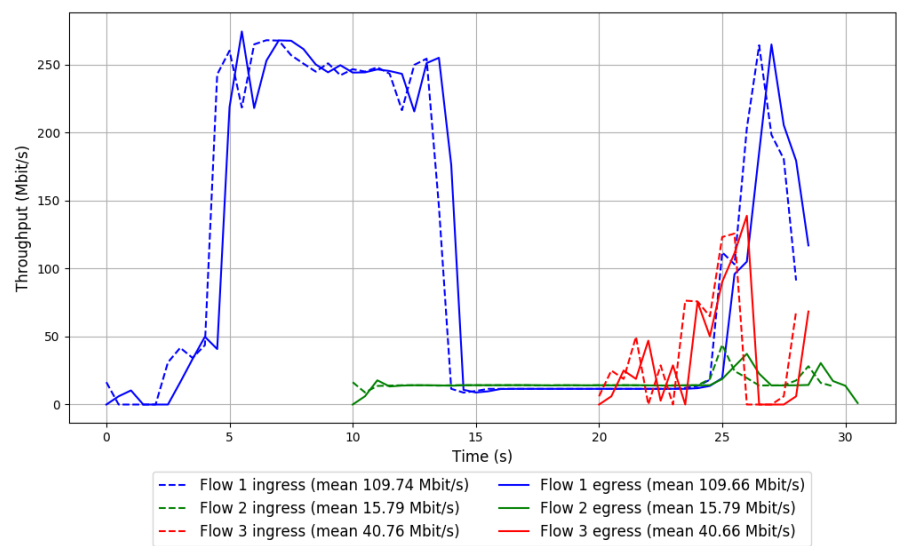
-- Flow 3:

Average throughput: 40.66 Mbit/s

95th percentile per-packet one-way delay: 71.399 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-05-25 04:36:04

End at: 2018-05-25 04:36:34

Local clock offset: -0.084 ms

Remote clock offset: 0.098 ms

Below is generated by plot.py at 2018-05-25 08:45:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.98 Mbit/s

95th percentile per-packet one-way delay: 68.080 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.80 Mbit/s

95th percentile per-packet one-way delay: 75.457 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 15.18 Mbit/s

95th percentile per-packet one-way delay: 66.931 ms

Loss rate: 0.00%

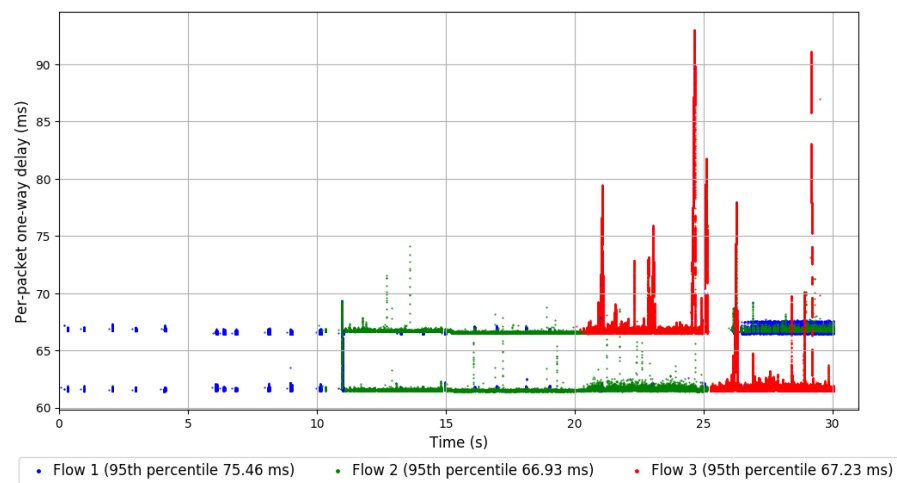
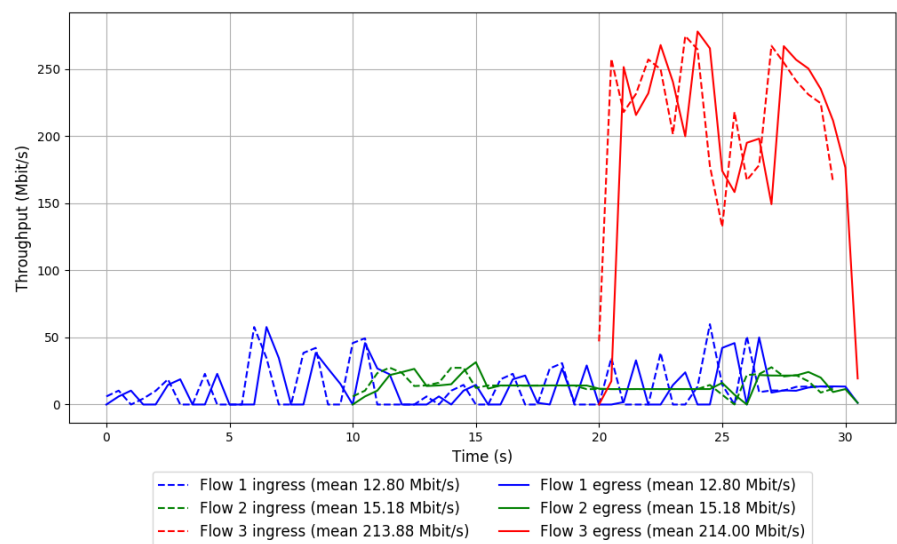
-- Flow 3:

Average throughput: 214.00 Mbit/s

95th percentile per-packet one-way delay: 67.234 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-05-25 04:58:33

End at: 2018-05-25 04:59:03

Local clock offset: 0.037 ms

Remote clock offset: 0.247 ms

Below is generated by plot.py at 2018-05-25 08:45:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.37 Mbit/s

95th percentile per-packet one-way delay: 67.175 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 14.65 Mbit/s

95th percentile per-packet one-way delay: 67.064 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 16.19 Mbit/s

95th percentile per-packet one-way delay: 67.075 ms

Loss rate: 0.00%

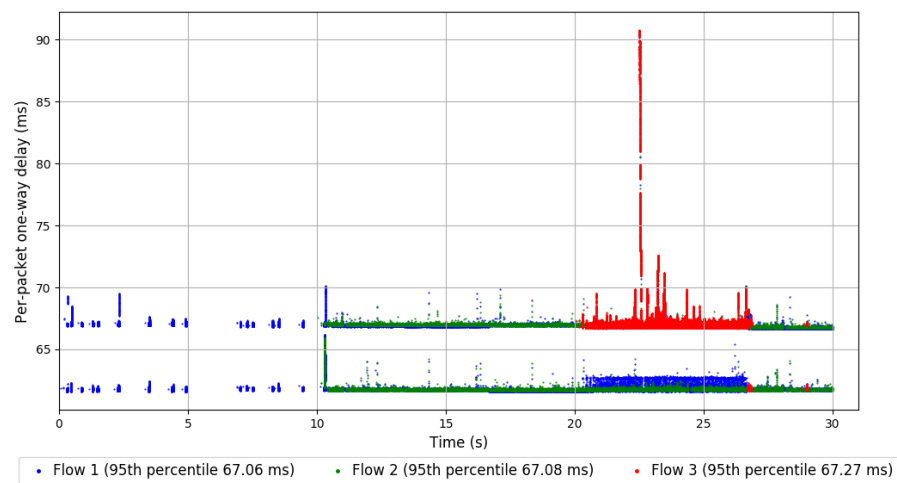
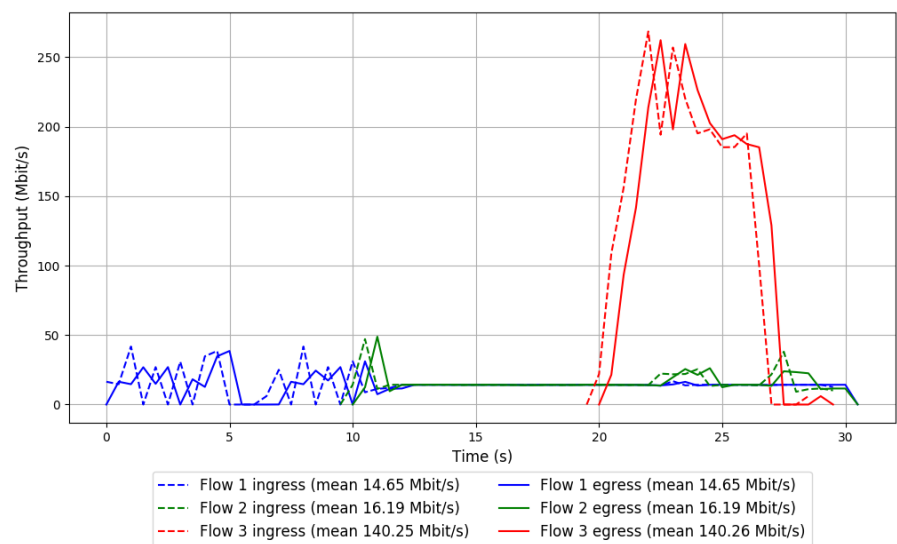
-- Flow 3:

Average throughput: 140.26 Mbit/s

95th percentile per-packet one-way delay: 67.269 ms

Loss rate: 0.00%

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

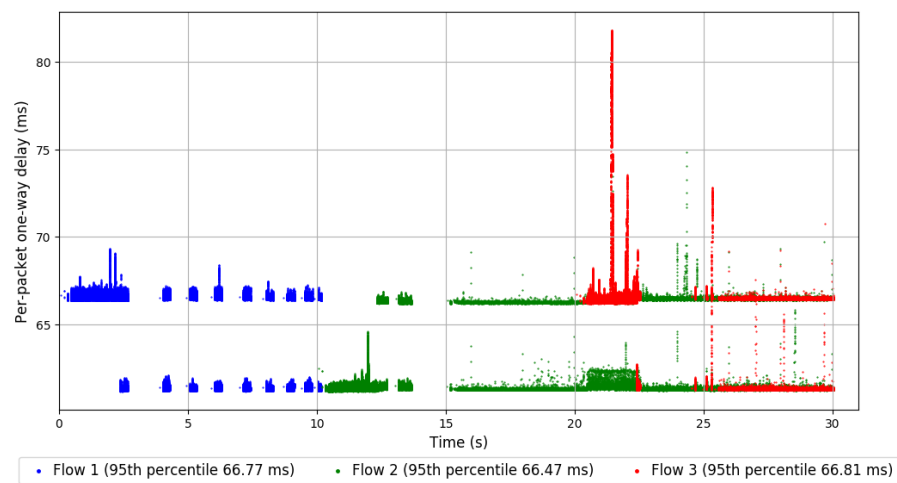
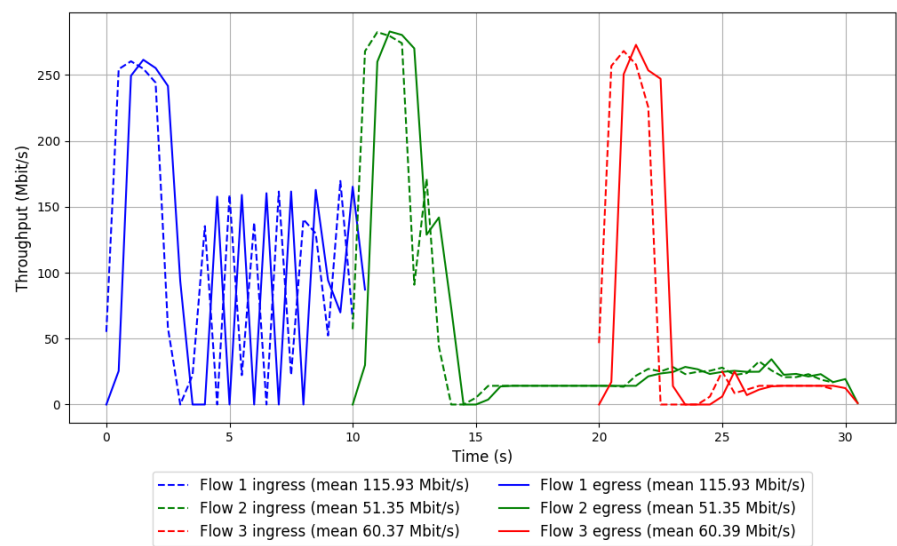


Run 7: Statistics of TaoVA-100x

Start at: 2018-05-25 05:20:57
End at: 2018-05-25 05:21:27
Local clock offset: -0.016 ms
Remote clock offset: -0.222 ms

Below is generated by plot.py at 2018-05-25 08:45:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.38 Mbit/s
95th percentile per-packet one-way delay: 66.688 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 115.93 Mbit/s
95th percentile per-packet one-way delay: 66.765 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 51.35 Mbit/s
95th percentile per-packet one-way delay: 66.473 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 60.39 Mbit/s
95th percentile per-packet one-way delay: 66.807 ms
Loss rate: 0.01%

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



Run 8: Statistics of TaoVA-100x

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

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

Local clock offset: -0.078 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2018-05-25 08:45:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.05 Mbit/s

95th percentile per-packet one-way delay: 69.706 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 16.00 Mbit/s

95th percentile per-packet one-way delay: 74.608 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 151.80 Mbit/s

95th percentile per-packet one-way delay: 67.941 ms

Loss rate: 0.00%

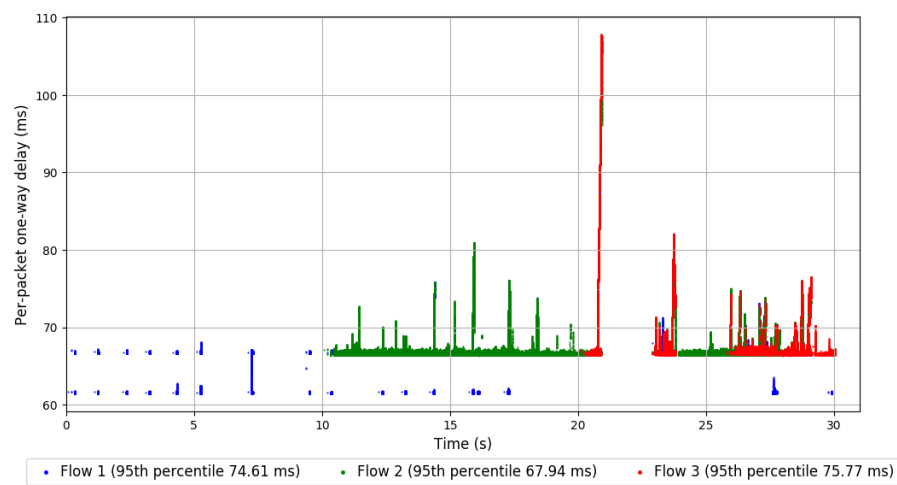
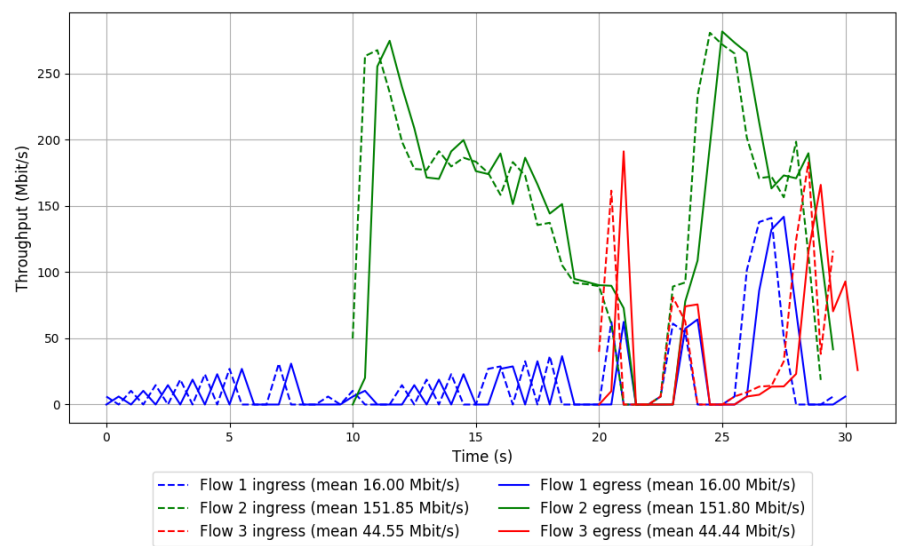
-- Flow 3:

Average throughput: 44.44 Mbit/s

95th percentile per-packet one-way delay: 75.765 ms

Loss rate: 0.30%

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

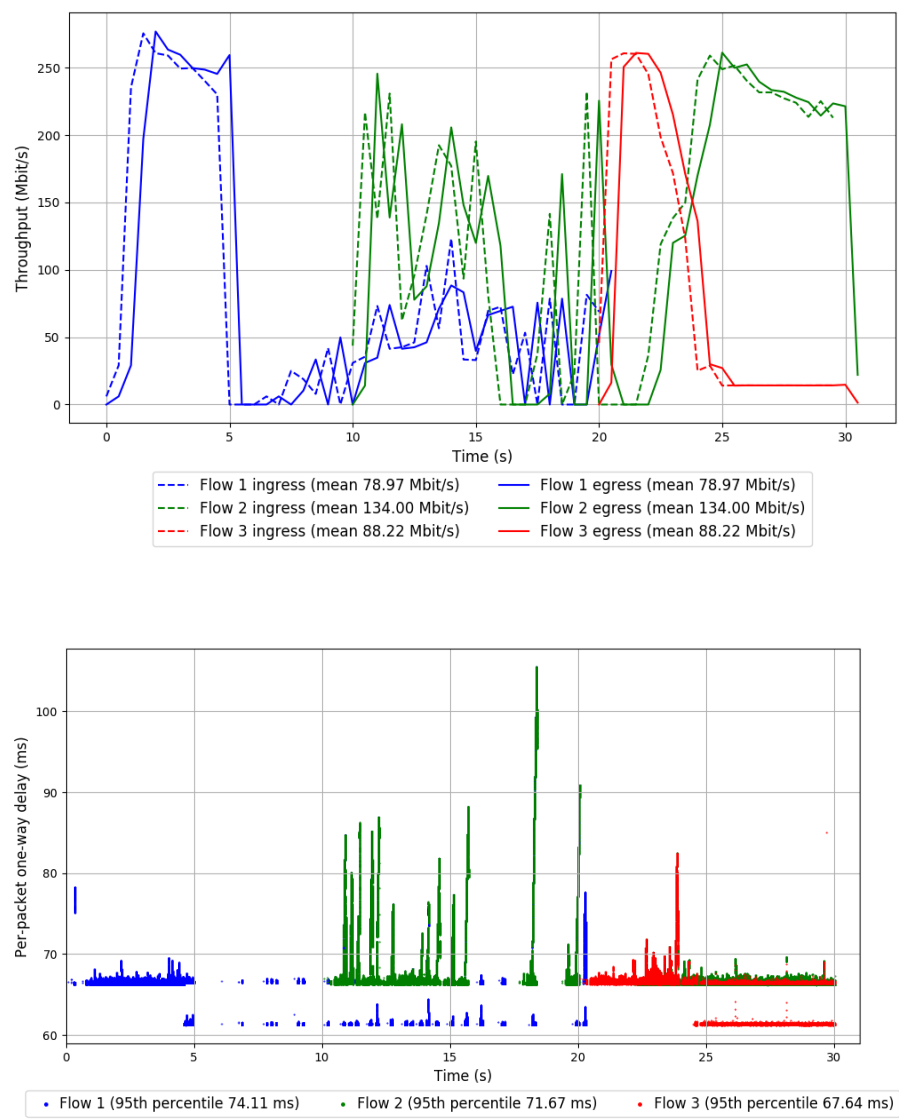


Run 9: Statistics of TaoVA-100x

Start at: 2018-05-25 06:05:55
End at: 2018-05-25 06:06:25
Local clock offset: -0.094 ms
Remote clock offset: -0.175 ms

Below is generated by plot.py at 2018-05-25 08:47:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 171.94 Mbit/s
95th percentile per-packet one-way delay: 71.172 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 78.97 Mbit/s
95th percentile per-packet one-way delay: 74.115 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 134.00 Mbit/s
95th percentile per-packet one-way delay: 71.672 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 88.22 Mbit/s
95th percentile per-packet one-way delay: 67.645 ms
Loss rate: 0.00%

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

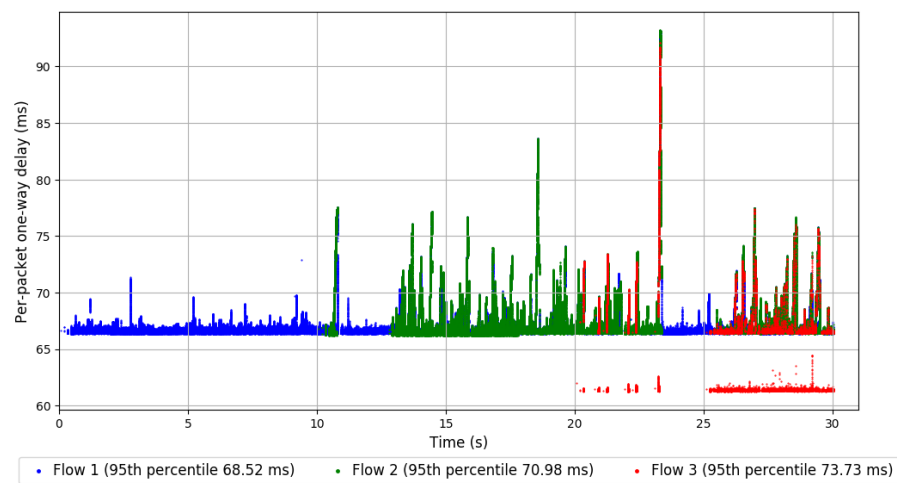
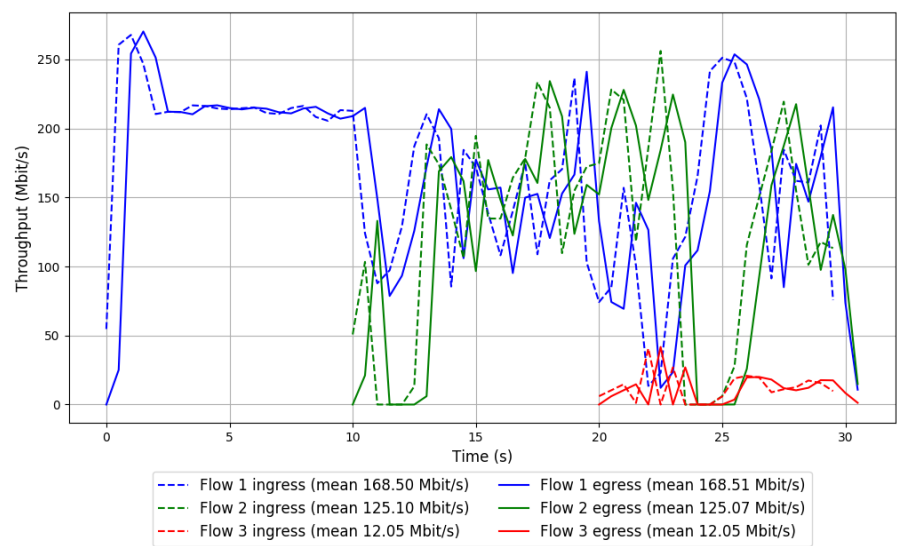


Run 10: Statistics of TaoVA-100x

Start at: 2018-05-25 06:28:32
End at: 2018-05-25 06:29:02
Local clock offset: -0.071 ms
Remote clock offset: -0.117 ms

Below is generated by plot.py at 2018-05-25 08:52:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 255.82 Mbit/s
95th percentile per-packet one-way delay: 69.657 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 168.51 Mbit/s
95th percentile per-packet one-way delay: 68.520 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 125.07 Mbit/s
95th percentile per-packet one-way delay: 70.979 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 12.05 Mbit/s
95th percentile per-packet one-way delay: 73.732 ms
Loss rate: 0.05%

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

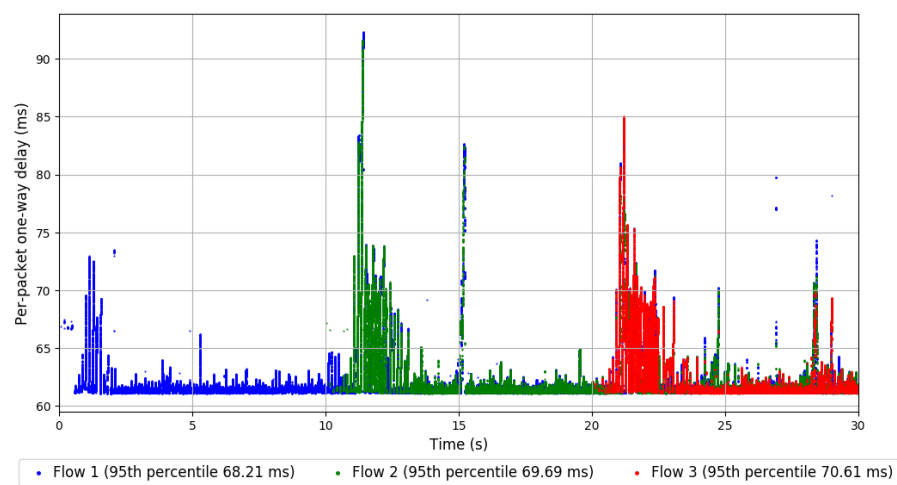
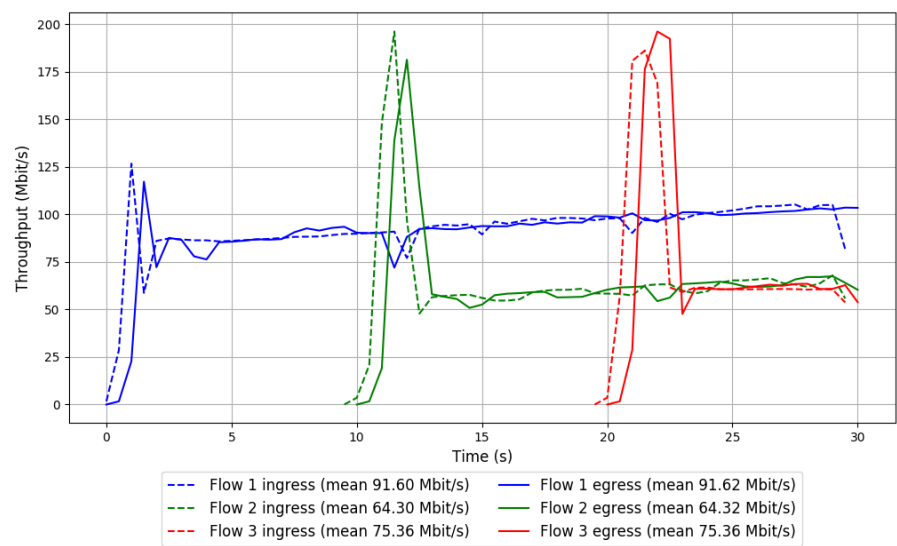


Run 1: Statistics of TCP Vegas

Start at: 2018-05-25 03:12:19
End at: 2018-05-25 03:12:49
Local clock offset: -0.084 ms
Remote clock offset: -0.139 ms

Below is generated by plot.py at 2018-05-25 08:52:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 159.59 Mbit/s
95th percentile per-packet one-way delay: 69.402 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 91.62 Mbit/s
95th percentile per-packet one-way delay: 68.209 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 64.32 Mbit/s
95th percentile per-packet one-way delay: 69.685 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 75.36 Mbit/s
95th percentile per-packet one-way delay: 70.615 ms
Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-05-25 03:35:03

End at: 2018-05-25 03:35:33

Local clock offset: -0.005 ms

Remote clock offset: 0.059 ms

Below is generated by plot.py at 2018-05-25 08:52:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 129.67 Mbit/s

95th percentile per-packet one-way delay: 76.600 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 56.57 Mbit/s

95th percentile per-packet one-way delay: 72.107 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 26.62 Mbit/s

95th percentile per-packet one-way delay: 73.326 ms

Loss rate: 0.00%

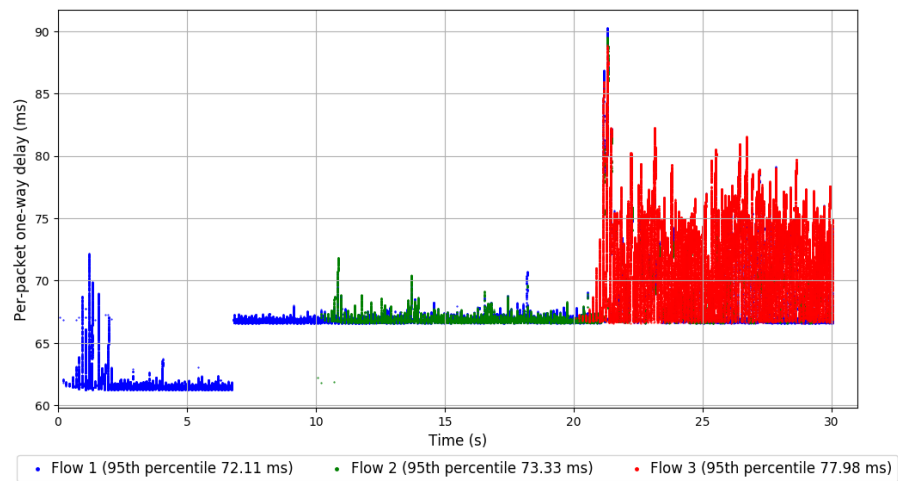
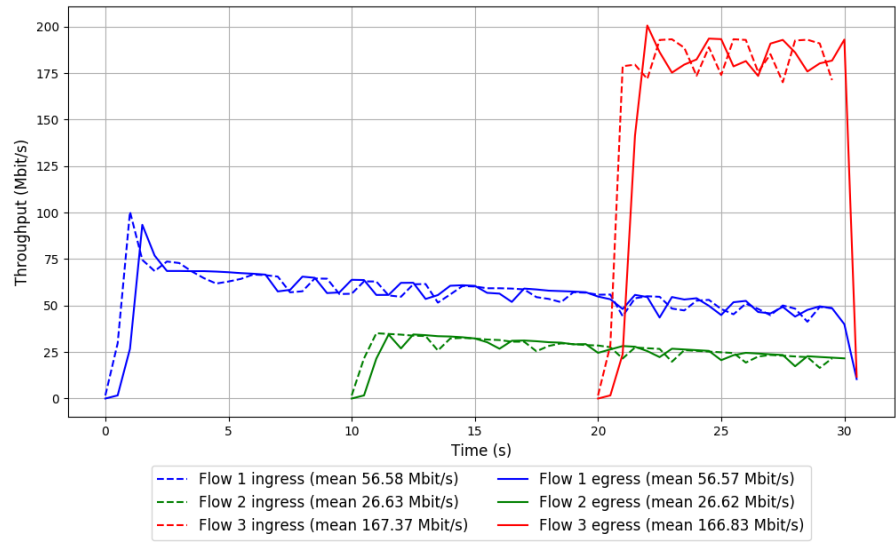
-- Flow 3:

Average throughput: 166.83 Mbit/s

95th percentile per-packet one-way delay: 77.977 ms

Loss rate: 0.37%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-05-25 03:57:37

End at: 2018-05-25 03:58:07

Local clock offset: 0.073 ms

Remote clock offset: 0.212 ms

Below is generated by plot.py at 2018-05-25 08:52:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.61 Mbit/s

95th percentile per-packet one-way delay: 74.580 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 43.85 Mbit/s

95th percentile per-packet one-way delay: 71.568 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.59 Mbit/s

95th percentile per-packet one-way delay: 73.041 ms

Loss rate: 0.00%

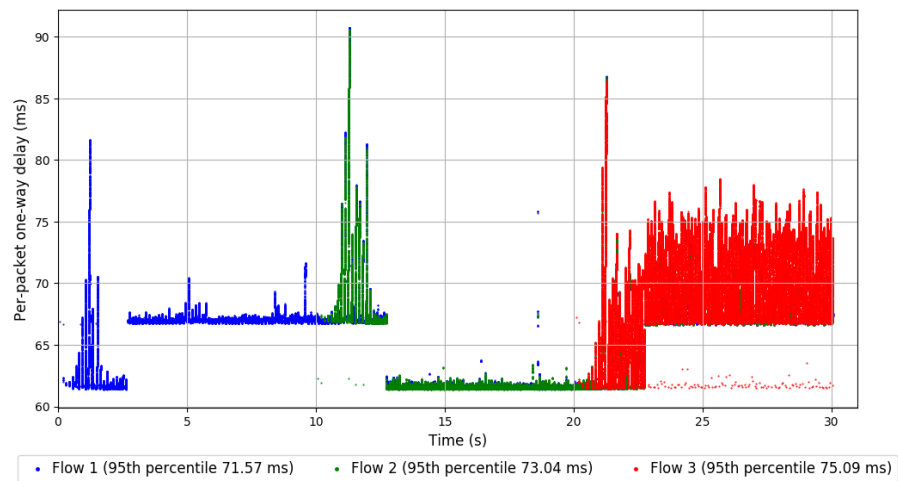
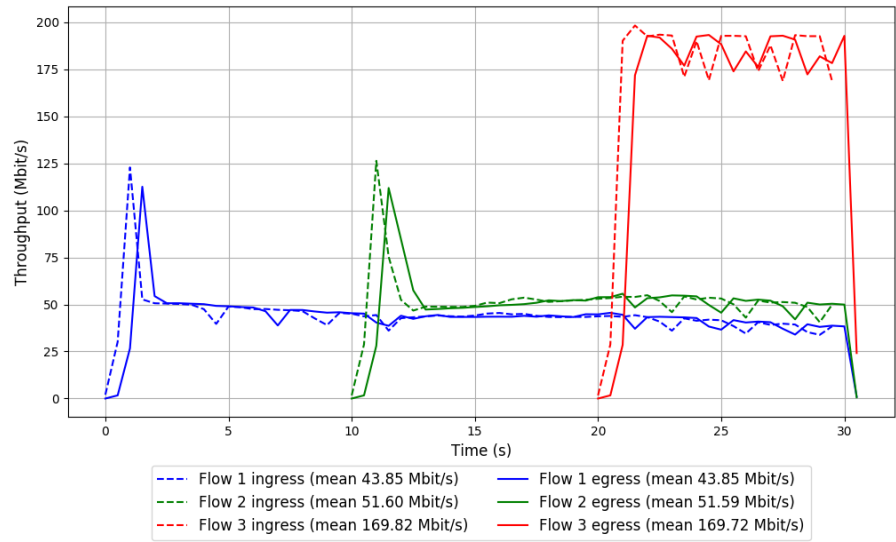
-- Flow 3:

Average throughput: 169.72 Mbit/s

95th percentile per-packet one-way delay: 75.092 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-05-25 04:20:04

End at: 2018-05-25 04:20:34

Local clock offset: -0.042 ms

Remote clock offset: 0.251 ms

Below is generated by plot.py at 2018-05-25 08:52:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 226.71 Mbit/s

95th percentile per-packet one-way delay: 79.063 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 175.30 Mbit/s

95th percentile per-packet one-way delay: 79.128 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.54 Mbit/s

95th percentile per-packet one-way delay: 78.195 ms

Loss rate: 0.05%

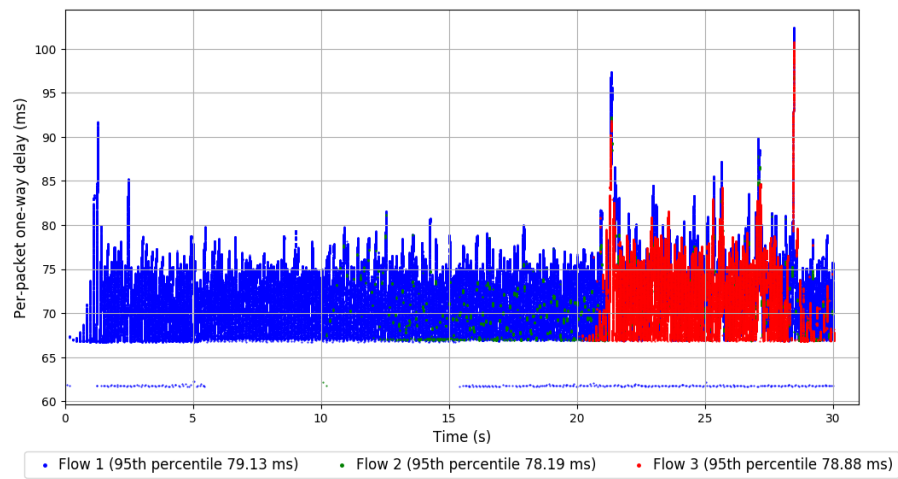
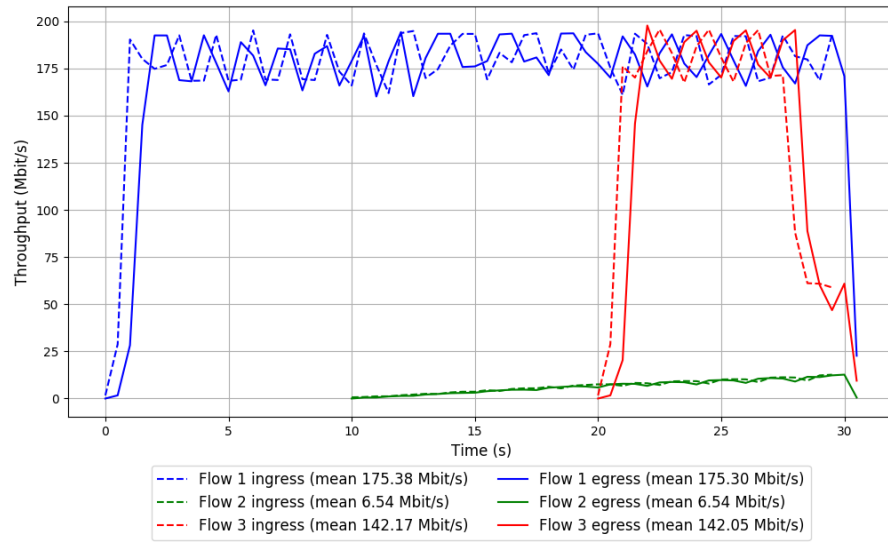
-- Flow 3:

Average throughput: 142.05 Mbit/s

95th percentile per-packet one-way delay: 78.876 ms

Loss rate: 0.13%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-05-25 04:42:42

End at: 2018-05-25 04:43:12

Local clock offset: -0.004 ms

Remote clock offset: 0.099 ms

Below is generated by plot.py at 2018-05-25 08:52:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 214.67 Mbit/s

95th percentile per-packet one-way delay: 81.772 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 169.08 Mbit/s

95th percentile per-packet one-way delay: 82.487 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 76.816 ms

Loss rate: 0.09%

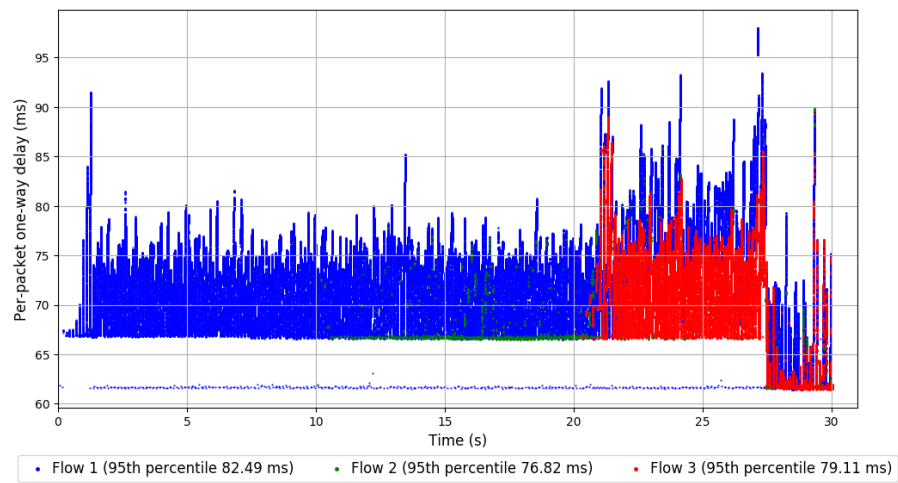
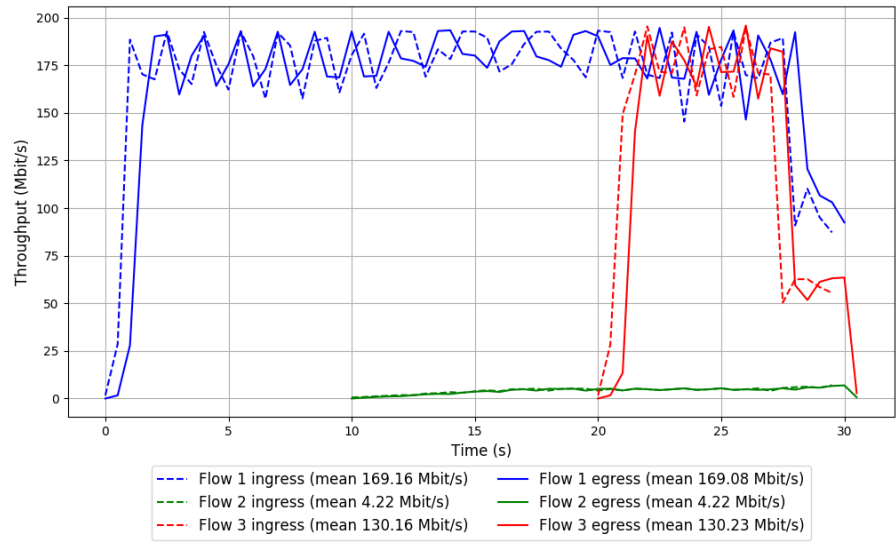
-- Flow 3:

Average throughput: 130.23 Mbit/s

95th percentile per-packet one-way delay: 79.108 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

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

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

Local clock offset: 0.026 ms

Remote clock offset: 0.057 ms

Below is generated by plot.py at 2018-05-25 08:52:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.15 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 43.44 Mbit/s

95th percentile per-packet one-way delay: 68.357 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 27.62 Mbit/s

95th percentile per-packet one-way delay: 68.971 ms

Loss rate: 0.00%

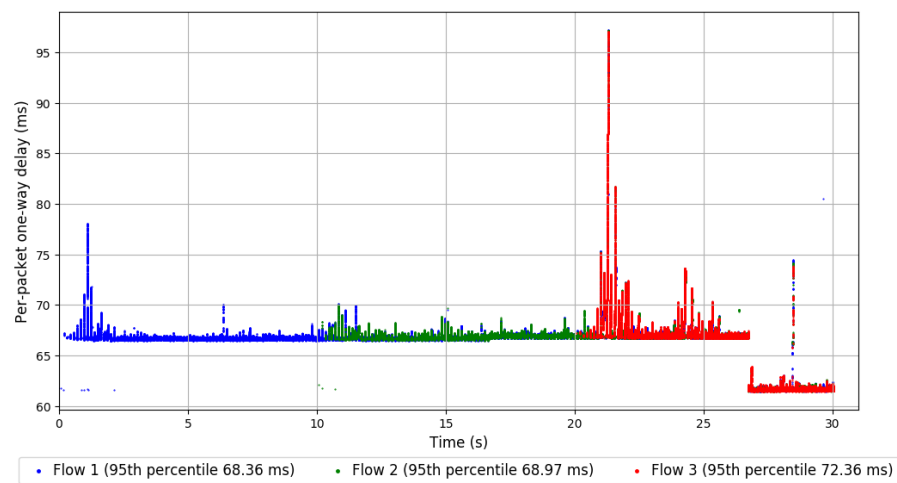
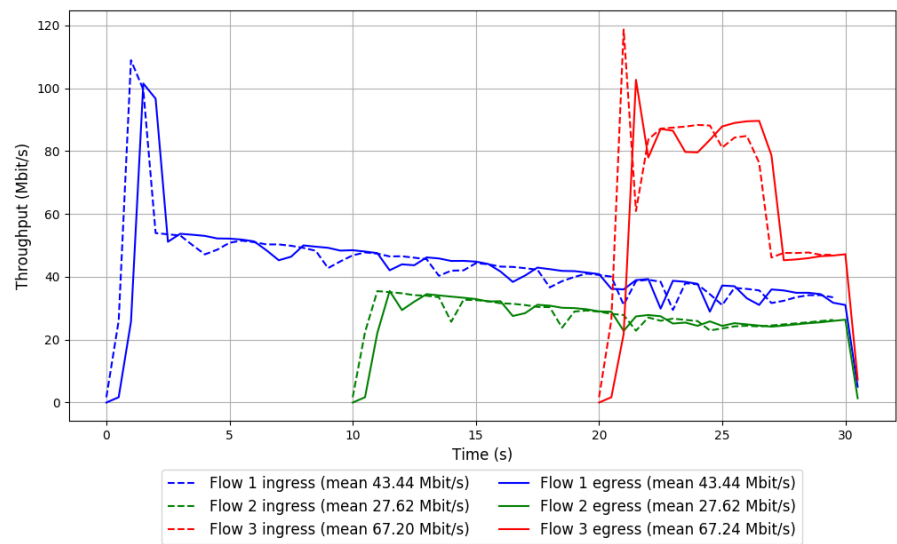
-- Flow 3:

Average throughput: 67.24 Mbit/s

95th percentile per-packet one-way delay: 72.355 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-05-25 05:27:23

End at: 2018-05-25 05:27:53

Local clock offset: -0.015 ms

Remote clock offset: 0.006 ms

Below is generated by plot.py at 2018-05-25 08:52:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 219.53 Mbit/s

95th percentile per-packet one-way delay: 77.015 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 47.53 Mbit/s

95th percentile per-packet one-way delay: 73.589 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 177.53 Mbit/s

95th percentile per-packet one-way delay: 75.640 ms

Loss rate: 0.00%

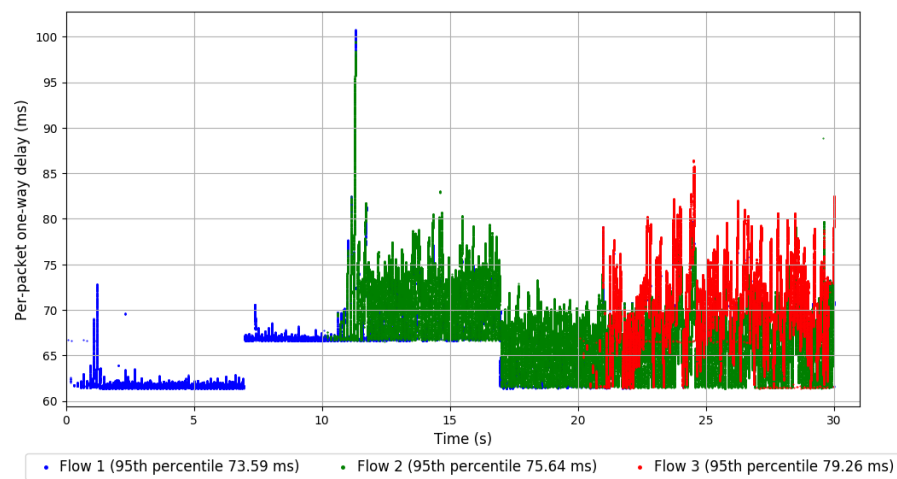
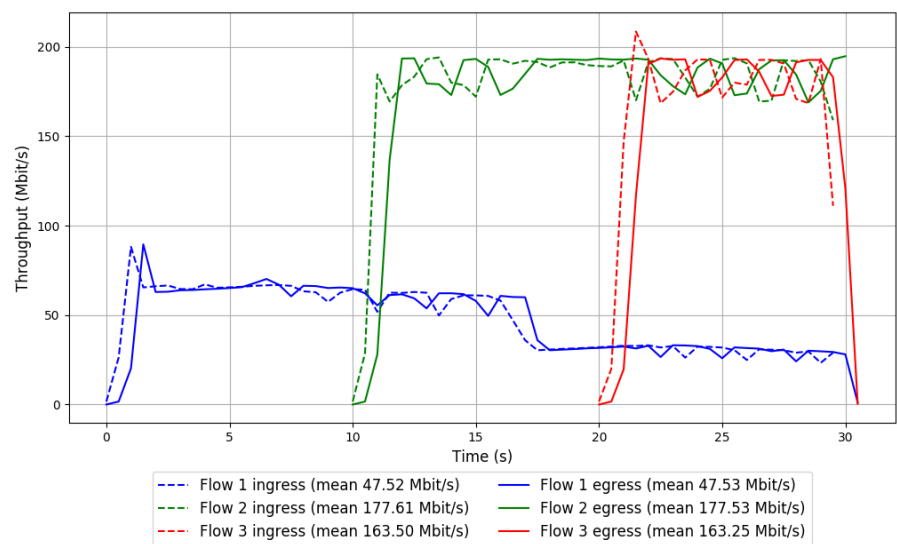
-- Flow 3:

Average throughput: 163.25 Mbit/s

95th percentile per-packet one-way delay: 79.258 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link

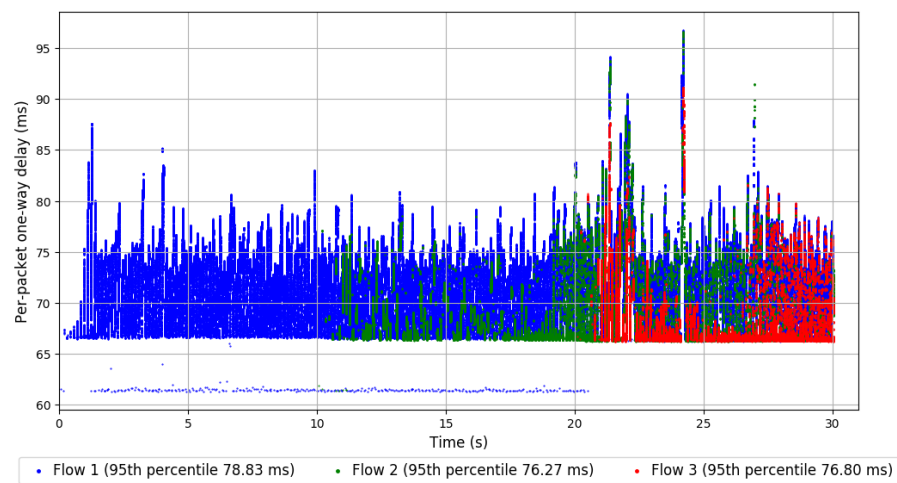
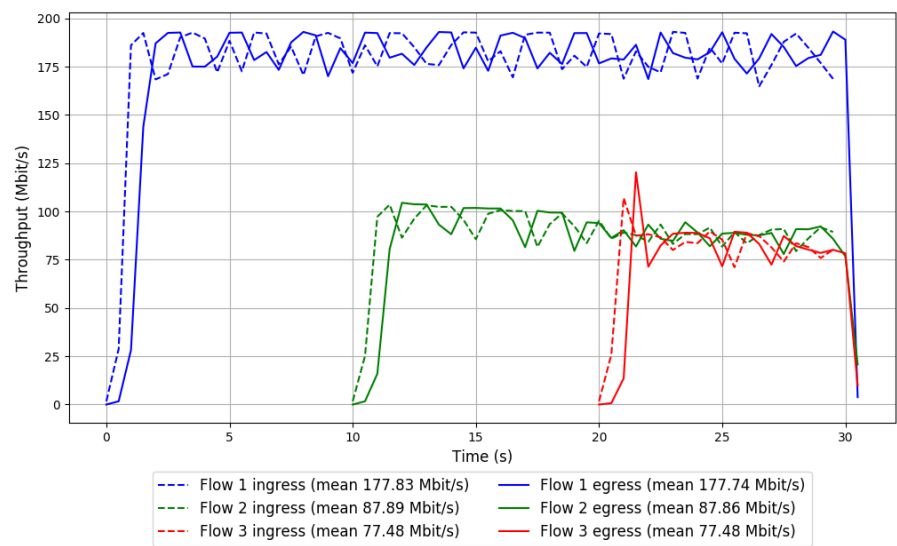


Run 8: Statistics of TCP Vegas

Start at: 2018-05-25 05:49:49
End at: 2018-05-25 05:50:19
Local clock offset: -0.073 ms
Remote clock offset: -0.164 ms

Below is generated by plot.py at 2018-05-25 08:52:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 261.71 Mbit/s
95th percentile per-packet one-way delay: 78.283 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 177.74 Mbit/s
95th percentile per-packet one-way delay: 78.826 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 87.86 Mbit/s
95th percentile per-packet one-way delay: 76.269 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 77.48 Mbit/s
95th percentile per-packet one-way delay: 76.802 ms
Loss rate: 0.04%

Run 8: Report of TCP Vegas — Data Link

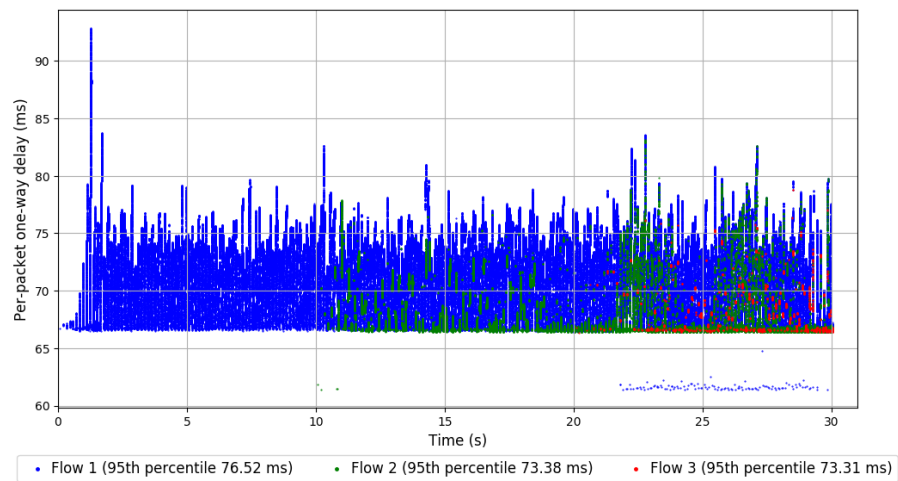
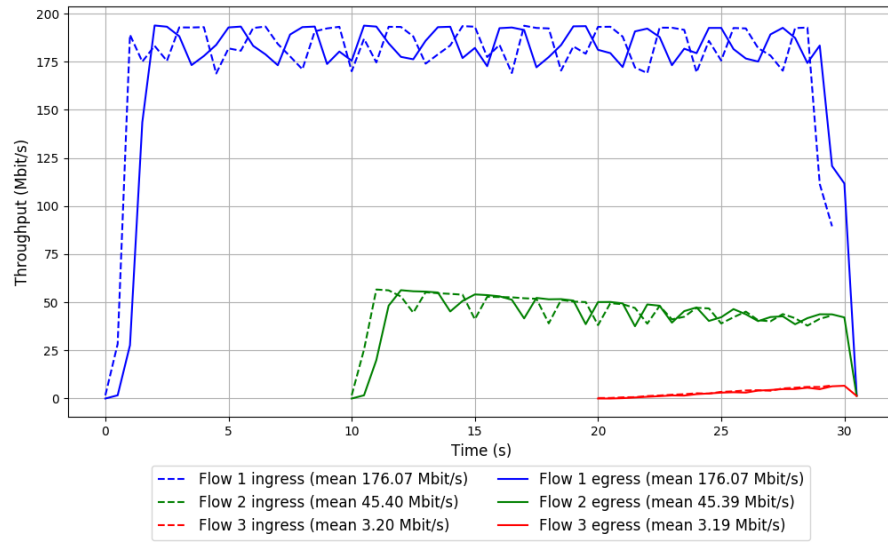


Run 9: Statistics of TCP Vegas

Start at: 2018-05-25 06:12:38
End at: 2018-05-25 06:13:08
Local clock offset: -0.104 ms
Remote clock offset: -0.094 ms

```
# Below is generated by plot.py at 2018-05-25 08:52:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 207.26 Mbit/s
95th percentile per-packet one-way delay: 76.344 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 176.07 Mbit/s
95th percentile per-packet one-way delay: 76.517 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 45.39 Mbit/s
95th percentile per-packet one-way delay: 73.376 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.19 Mbit/s
95th percentile per-packet one-way delay: 73.312 ms
Loss rate: 0.38%
```


Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-05-25 06:35:19

End at: 2018-05-25 06:35:49

Local clock offset: -0.058 ms

Remote clock offset: 0.178 ms

Below is generated by plot.py at 2018-05-25 08:52:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 188.61 Mbit/s

95th percentile per-packet one-way delay: 76.304 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 88.78 Mbit/s

95th percentile per-packet one-way delay: 73.474 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 145.01 Mbit/s

95th percentile per-packet one-way delay: 77.475 ms

Loss rate: 0.00%

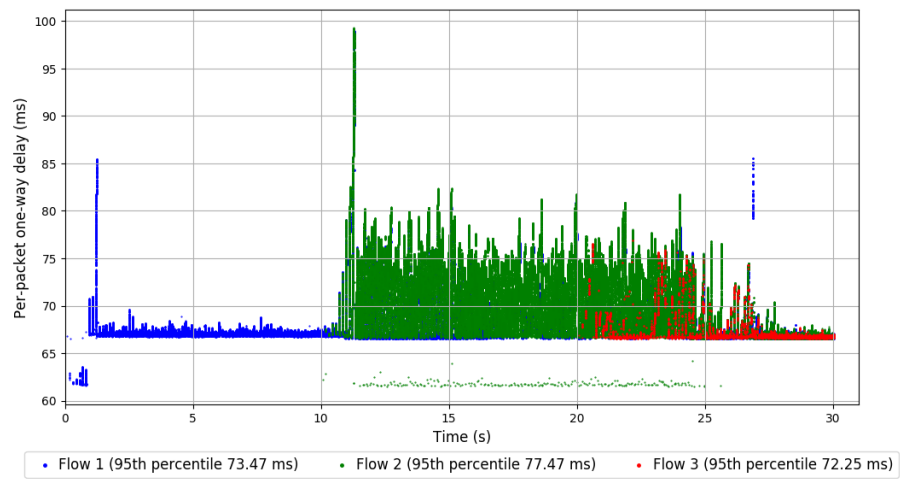
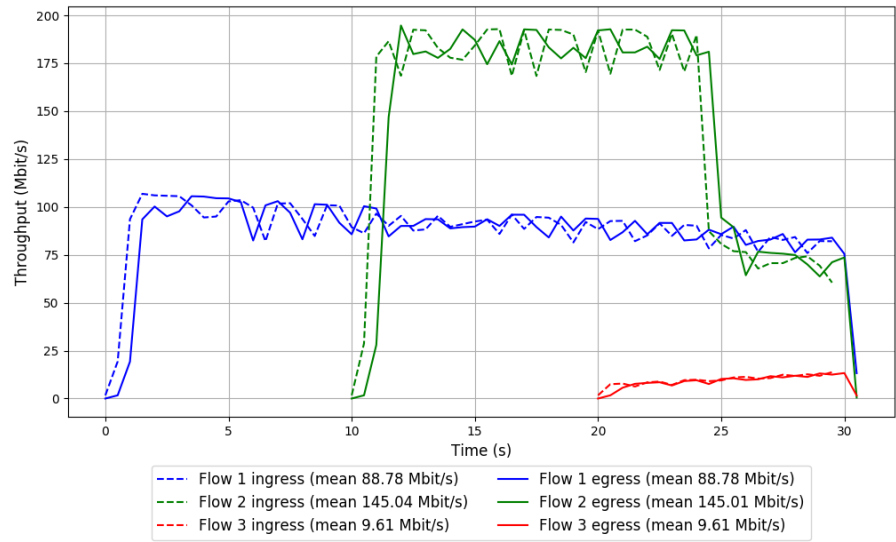
-- Flow 3:

Average throughput: 9.61 Mbit/s

95th percentile per-packet one-way delay: 72.248 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-05-25 03:17:32

End at: 2018-05-25 03:18:02

Local clock offset: -0.069 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2018-05-25 08:54:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 283.34 Mbit/s

95th percentile per-packet one-way delay: 158.081 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 174.94 Mbit/s

95th percentile per-packet one-way delay: 150.231 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 124.31 Mbit/s

95th percentile per-packet one-way delay: 163.047 ms

Loss rate: 0.00%

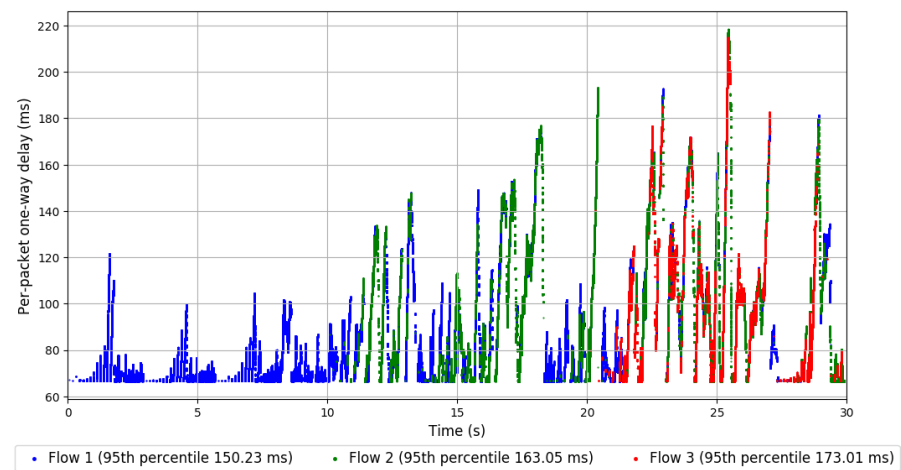
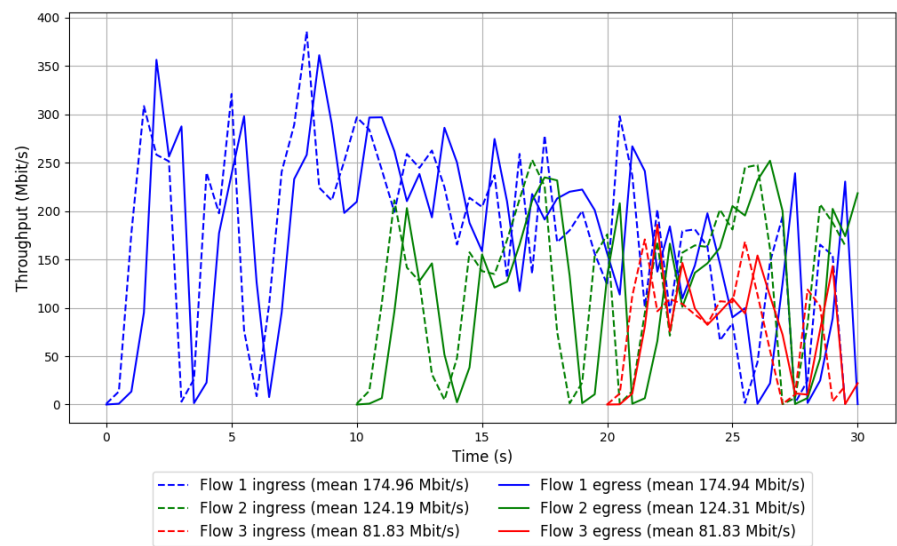
-- Flow 3:

Average throughput: 81.83 Mbit/s

95th percentile per-packet one-way delay: 173.012 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link

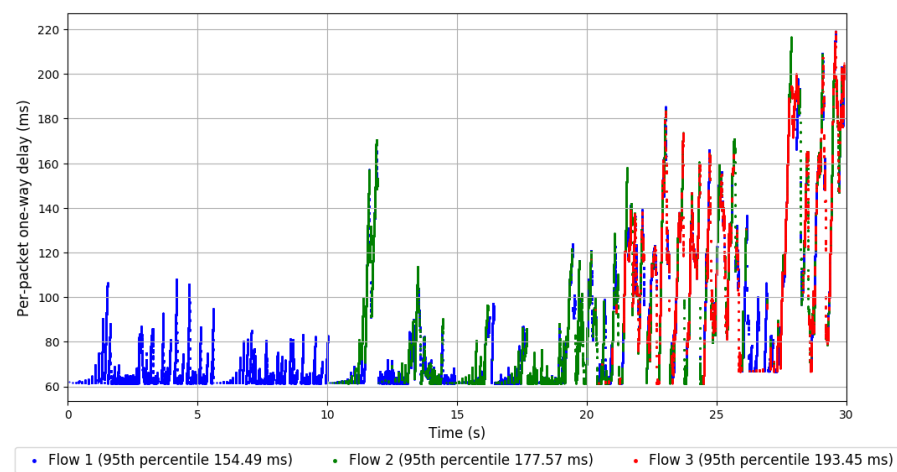
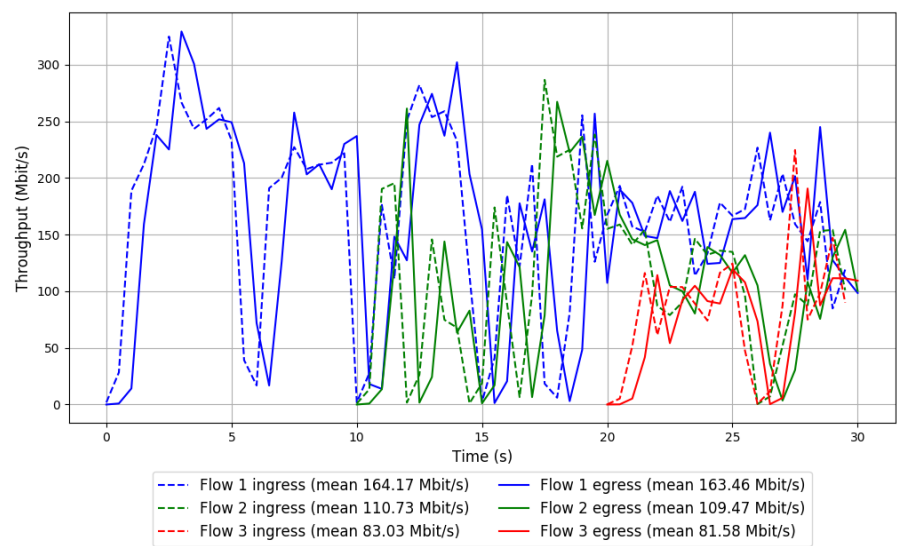


Run 2: Statistics of Verus

Start at: 2018-05-25 03:40:14
End at: 2018-05-25 03:40:44
Local clock offset: 0.019 ms
Remote clock offset: 0.224 ms

Below is generated by plot.py at 2018-05-25 08:54:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 262.80 Mbit/s
95th percentile per-packet one-way delay: 170.925 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 163.46 Mbit/s
95th percentile per-packet one-way delay: 154.492 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 109.47 Mbit/s
95th percentile per-packet one-way delay: 177.573 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 81.58 Mbit/s
95th percentile per-packet one-way delay: 193.450 ms
Loss rate: 2.26%

Run 2: Report of Verus — Data Link

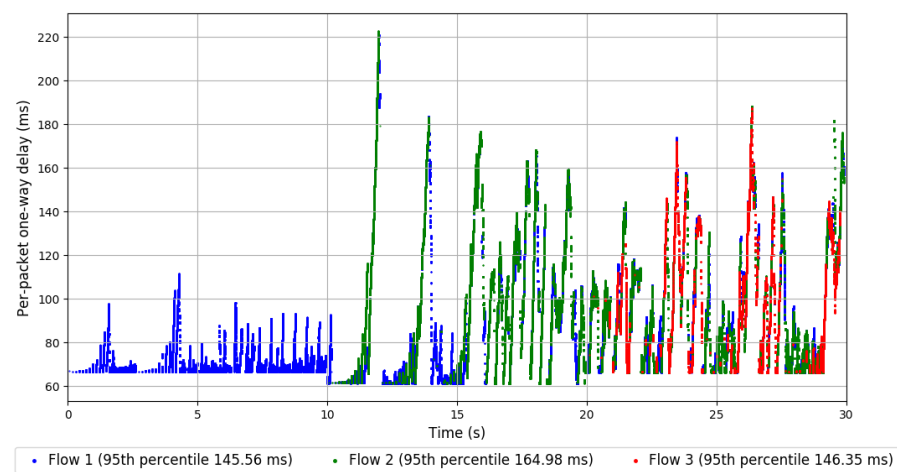
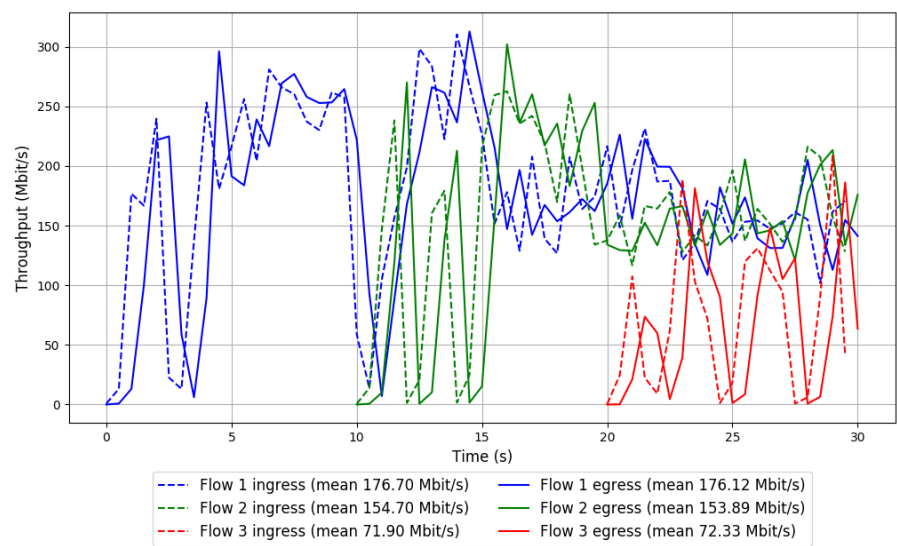


Run 3: Statistics of Verus

Start at: 2018-05-25 04:02:49
End at: 2018-05-25 04:03:19
Local clock offset: 0.045 ms
Remote clock offset: -0.031 ms

Below is generated by plot.py at 2018-05-25 08:56:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 301.84 Mbit/s
95th percentile per-packet one-way delay: 153.520 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 176.12 Mbit/s
95th percentile per-packet one-way delay: 145.559 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 153.89 Mbit/s
95th percentile per-packet one-way delay: 164.977 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 72.33 Mbit/s
95th percentile per-packet one-way delay: 146.355 ms
Loss rate: 1.07%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-05-25 04:25:24

End at: 2018-05-25 04:25:54

Local clock offset: -0.077 ms

Remote clock offset: 0.328 ms

Below is generated by plot.py at 2018-05-25 08:56:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 284.42 Mbit/s

95th percentile per-packet one-way delay: 219.614 ms

Loss rate: 2.32%

-- Flow 1:

Average throughput: 179.50 Mbit/s

95th percentile per-packet one-way delay: 199.589 ms

Loss rate: 1.63%

-- Flow 2:

Average throughput: 72.00 Mbit/s

95th percentile per-packet one-way delay: 187.278 ms

Loss rate: 0.73%

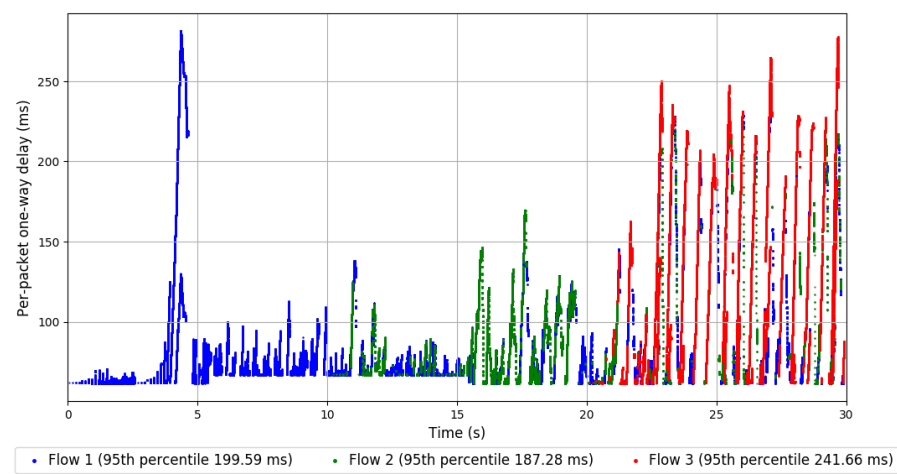
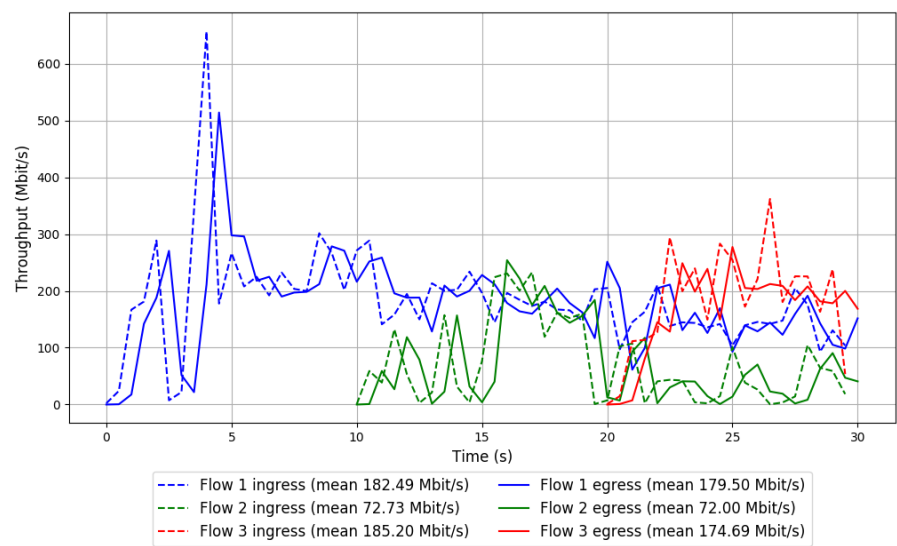
-- Flow 3:

Average throughput: 174.69 Mbit/s

95th percentile per-packet one-way delay: 241.655 ms

Loss rate: 5.65%

Run 4: Report of Verus — Data Link

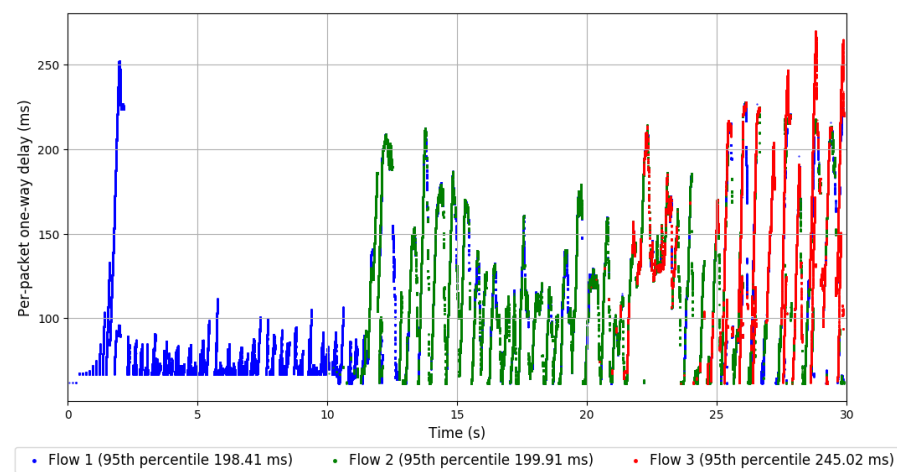
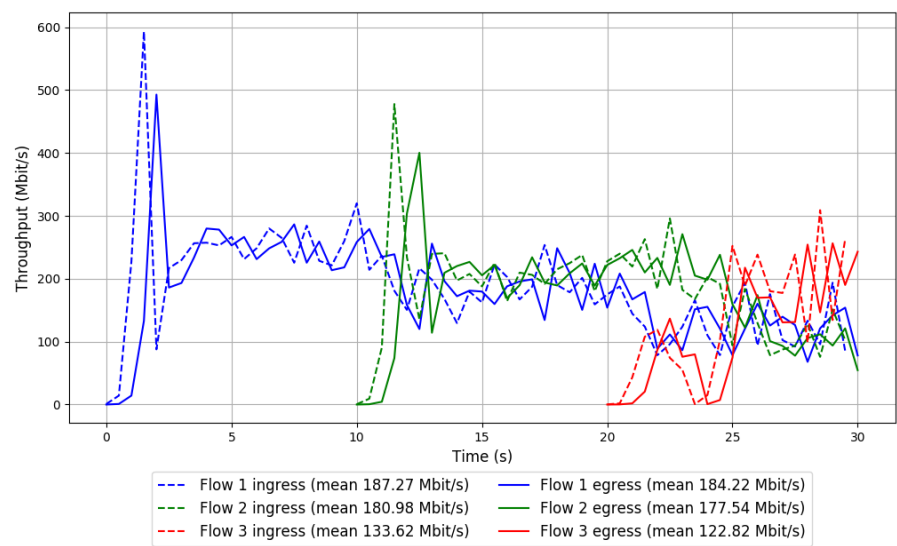


Run 5: Statistics of Verus

Start at: 2018-05-25 04:47:59
End at: 2018-05-25 04:48:29
Local clock offset: -0.016 ms
Remote clock offset: 0.127 ms

Below is generated by plot.py at 2018-05-25 08:57:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 342.29 Mbit/s
95th percentile per-packet one-way delay: 209.981 ms
Loss rate: 2.50%
-- Flow 1:
Average throughput: 184.22 Mbit/s
95th percentile per-packet one-way delay: 198.406 ms
Loss rate: 1.61%
-- Flow 2:
Average throughput: 177.54 Mbit/s
95th percentile per-packet one-way delay: 199.915 ms
Loss rate: 1.90%
-- Flow 3:
Average throughput: 122.82 Mbit/s
95th percentile per-packet one-way delay: 245.019 ms
Loss rate: 7.96%

Run 5: Report of Verus — Data Link

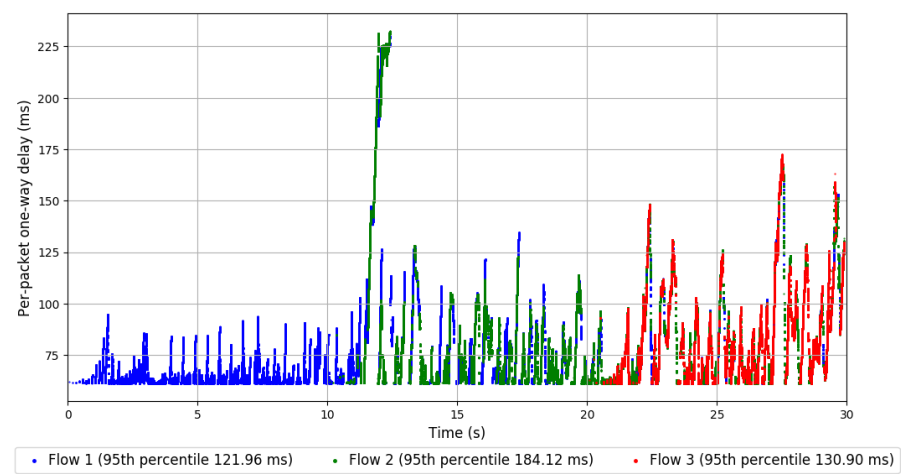
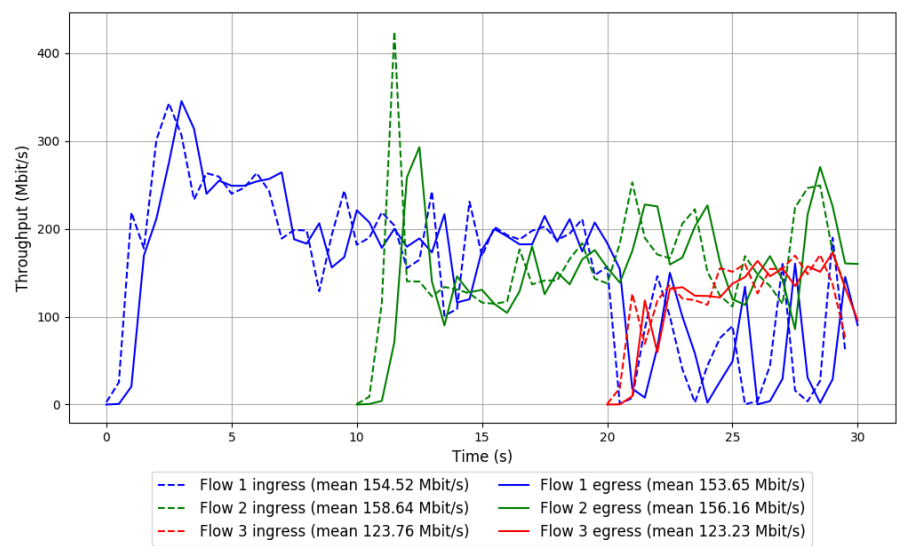


Run 6: Statistics of Verus

Start at: 2018-05-25 05:10:21
End at: 2018-05-25 05:10:51
Local clock offset: 0.016 ms
Remote clock offset: -0.116 ms

Below is generated by plot.py at 2018-05-25 08:57:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 297.84 Mbit/s
95th percentile per-packet one-way delay: 139.511 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 153.65 Mbit/s
95th percentile per-packet one-way delay: 121.956 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 156.16 Mbit/s
95th percentile per-packet one-way delay: 184.119 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 123.23 Mbit/s
95th percentile per-packet one-way delay: 130.900 ms
Loss rate: 0.48%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

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

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

Local clock offset: -0.039 ms

Remote clock offset: 0.068 ms

Below is generated by plot.py at 2018-05-25 08:57:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 290.50 Mbit/s

95th percentile per-packet one-way delay: 152.610 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 167.75 Mbit/s

95th percentile per-packet one-way delay: 144.852 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 164.88 Mbit/s

95th percentile per-packet one-way delay: 164.029 ms

Loss rate: 1.46%

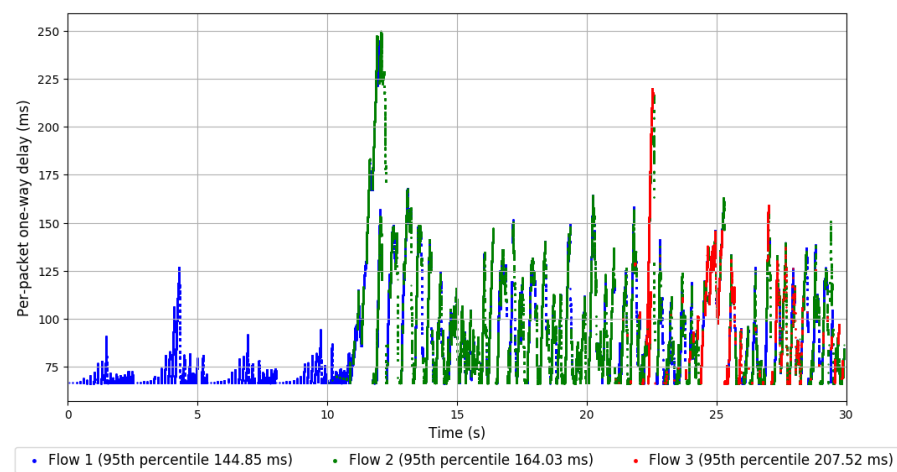
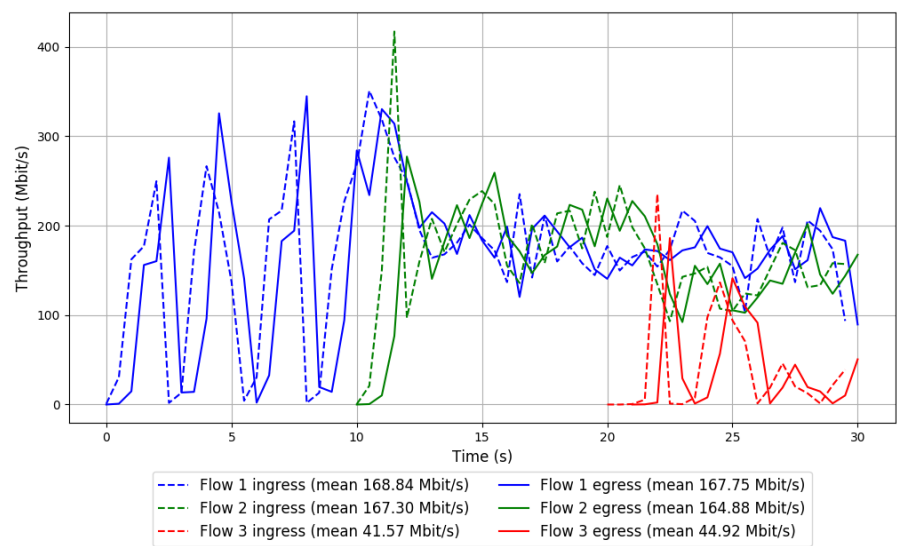
-- Flow 3:

Average throughput: 44.92 Mbit/s

95th percentile per-packet one-way delay: 207.516 ms

Loss rate: 2.92%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-05-25 05:55:11

End at: 2018-05-25 05:55:41

Local clock offset: -0.087 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2018-05-25 08:57:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 260.18 Mbit/s

95th percentile per-packet one-way delay: 192.909 ms

Loss rate: 1.35%

-- Flow 1:

Average throughput: 187.54 Mbit/s

95th percentile per-packet one-way delay: 179.871 ms

Loss rate: 1.17%

-- Flow 2:

Average throughput: 85.86 Mbit/s

95th percentile per-packet one-way delay: 196.218 ms

Loss rate: 1.57%

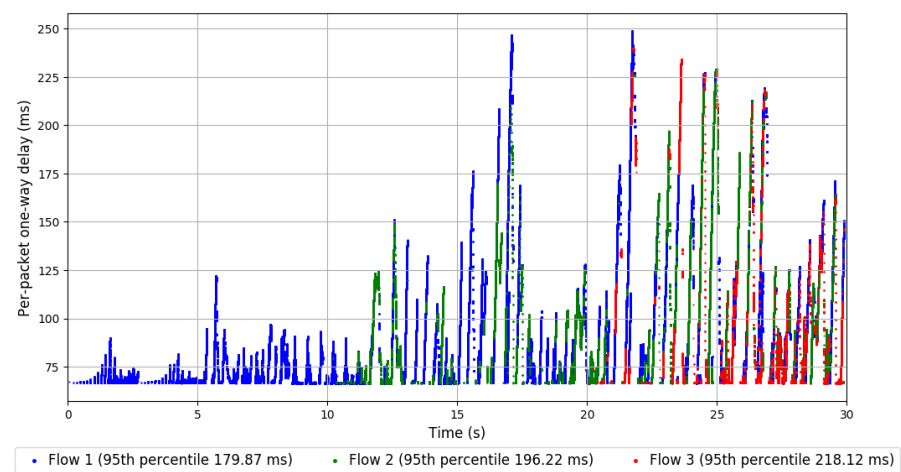
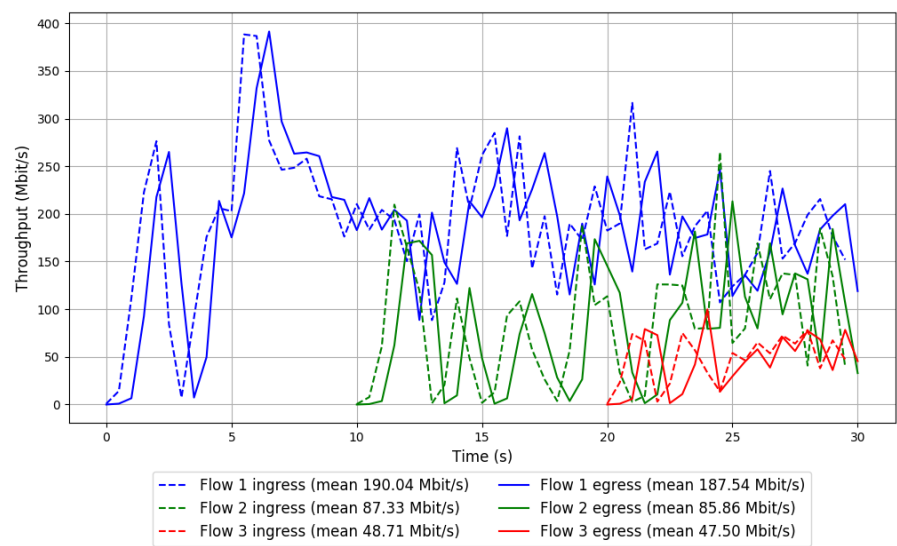
-- Flow 3:

Average throughput: 47.50 Mbit/s

95th percentile per-packet one-way delay: 218.123 ms

Loss rate: 2.59%

Run 8: Report of Verus — Data Link

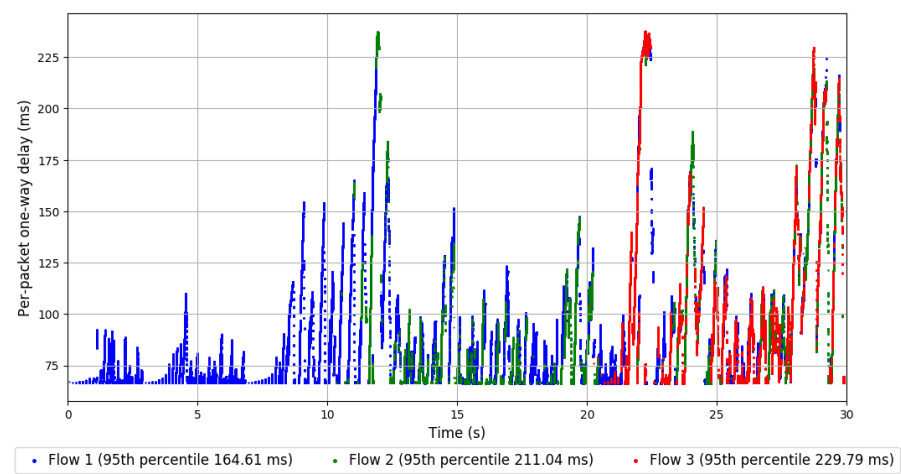
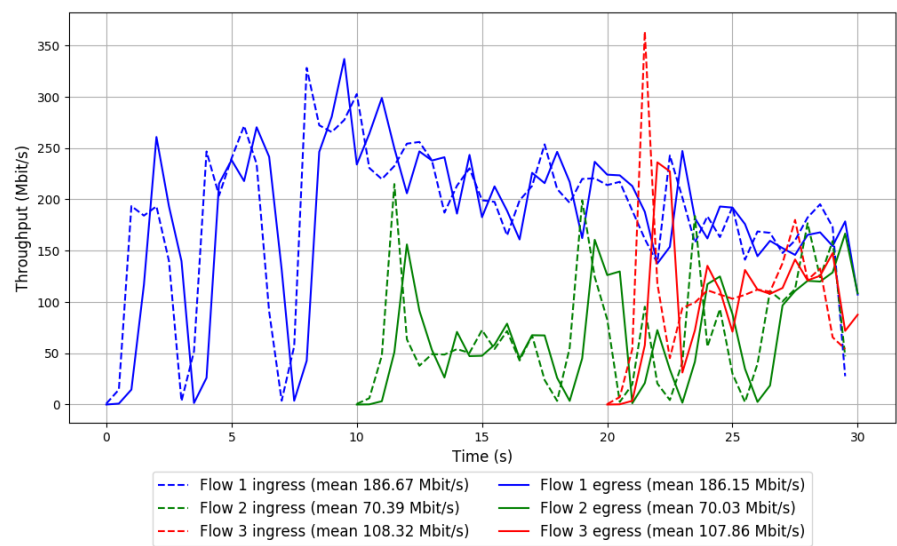


Run 9: Statistics of Verus

Start at: 2018-05-25 06:17:54
End at: 2018-05-25 06:18:24
Local clock offset: -0.096 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2018-05-25 09:00:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 267.82 Mbit/s
95th percentile per-packet one-way delay: 195.496 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 186.15 Mbit/s
95th percentile per-packet one-way delay: 164.606 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 70.03 Mbit/s
95th percentile per-packet one-way delay: 211.044 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 107.86 Mbit/s
95th percentile per-packet one-way delay: 229.793 ms
Loss rate: 0.87%

Run 9: Report of Verus — Data Link

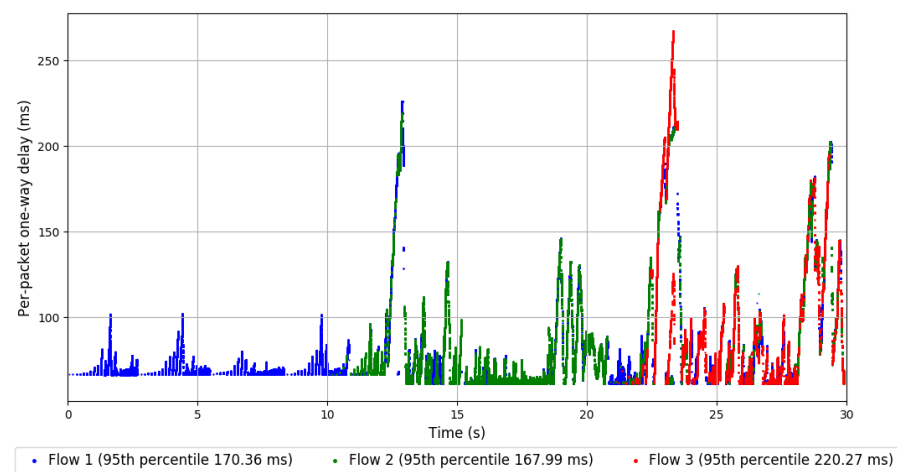
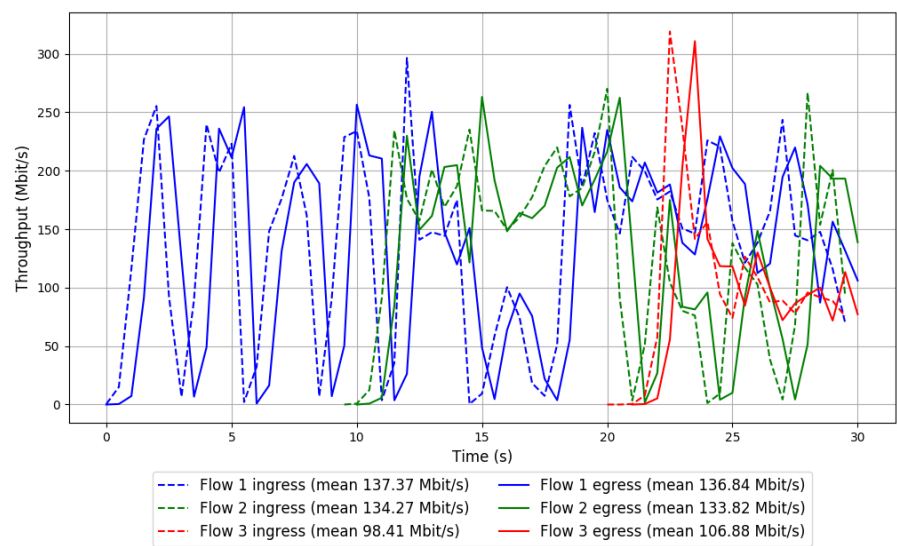


Run 10: Statistics of Verus

Start at: 2018-05-25 06:40:37
End at: 2018-05-25 06:41:07
Local clock offset: -0.05 ms
Remote clock offset: -0.013 ms

Below is generated by plot.py at 2018-05-25 09:00:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 256.84 Mbit/s
95th percentile per-packet one-way delay: 183.200 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 136.84 Mbit/s
95th percentile per-packet one-way delay: 170.363 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 133.82 Mbit/s
95th percentile per-packet one-way delay: 167.988 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 106.88 Mbit/s
95th percentile per-packet one-way delay: 220.272 ms
Loss rate: 2.42%

Run 10: Report of Verus — Data Link

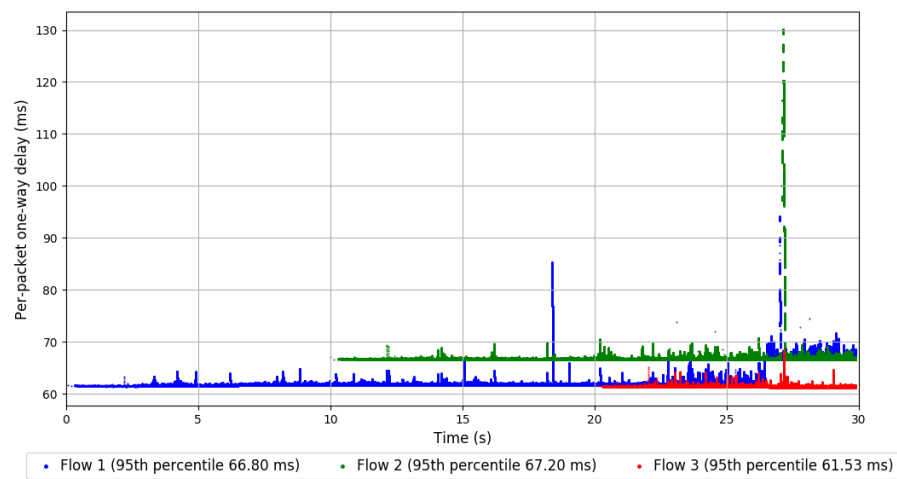
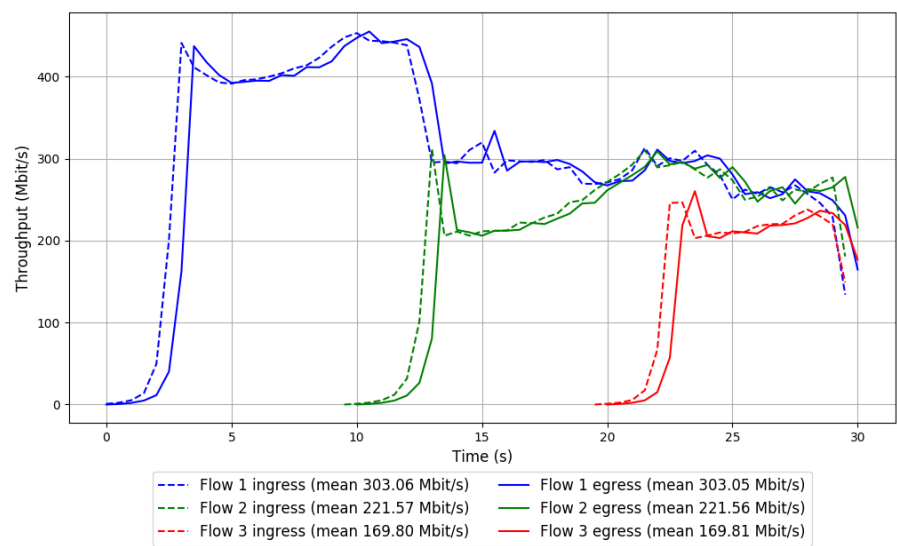


Run 1: Statistics of PCC-Vivace

Start at: 2018-05-25 03:10:33
End at: 2018-05-25 03:11:03
Local clock offset: -0.069 ms
Remote clock offset: -0.032 ms

Below is generated by plot.py at 2018-05-25 09:07:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 506.83 Mbit/s
95th percentile per-packet one-way delay: 66.887 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 303.05 Mbit/s
95th percentile per-packet one-way delay: 66.795 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 221.56 Mbit/s
95th percentile per-packet one-way delay: 67.205 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 169.81 Mbit/s
95th percentile per-packet one-way delay: 61.526 ms
Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-05-25 03:33:18

End at: 2018-05-25 03:33:48

Local clock offset: -0.008 ms

Remote clock offset: 0.103 ms

Below is generated by plot.py at 2018-05-25 09:07:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 497.67 Mbit/s

95th percentile per-packet one-way delay: 66.965 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 295.99 Mbit/s

95th percentile per-packet one-way delay: 61.969 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 220.19 Mbit/s

95th percentile per-packet one-way delay: 66.772 ms

Loss rate: 0.00%

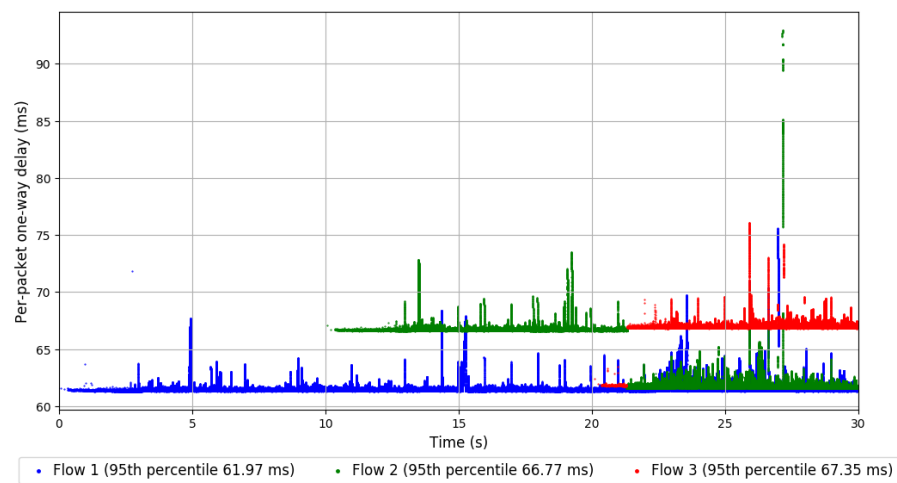
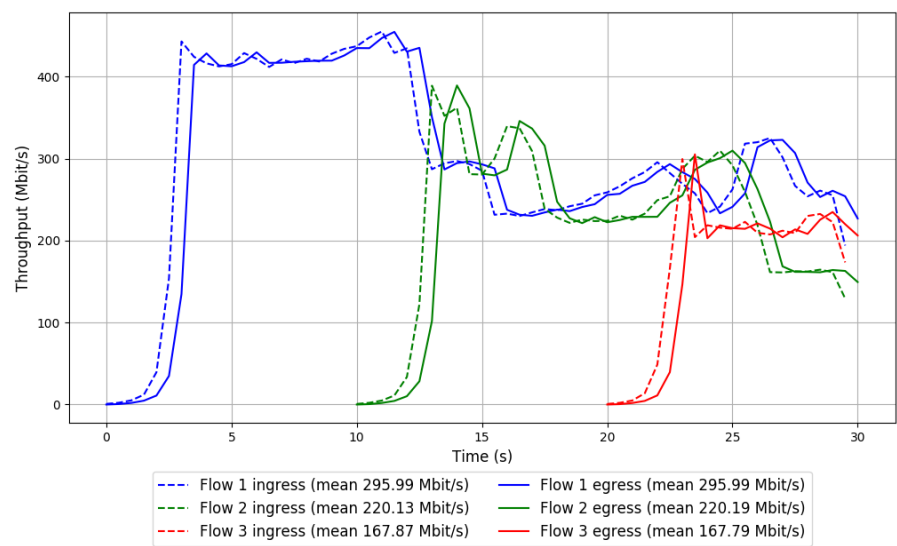
-- Flow 3:

Average throughput: 167.79 Mbit/s

95th percentile per-packet one-way delay: 67.354 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-05-25 03:55:51

End at: 2018-05-25 03:56:21

Local clock offset: 0.053 ms

Remote clock offset: 0.046 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 520.51 Mbit/s

95th percentile per-packet one-way delay: 67.214 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 312.22 Mbit/s

95th percentile per-packet one-way delay: 67.923 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 235.56 Mbit/s

95th percentile per-packet one-way delay: 62.021 ms

Loss rate: 0.00%

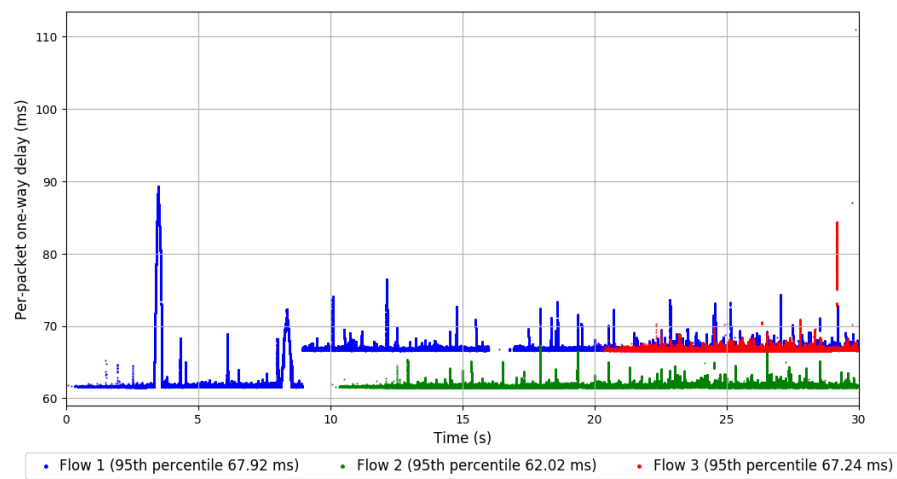
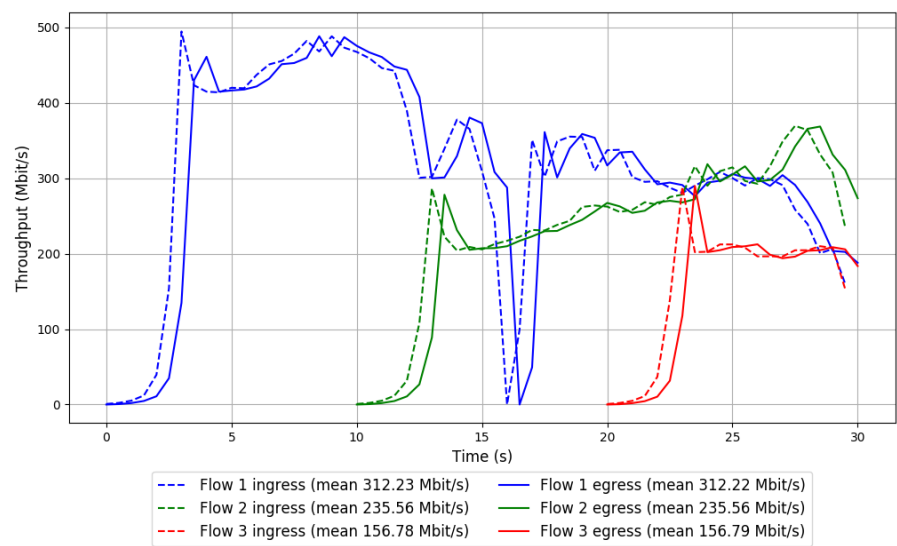
-- Flow 3:

Average throughput: 156.79 Mbit/s

95th percentile per-packet one-way delay: 67.238 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-05-25 04:18:21

End at: 2018-05-25 04:18:51

Local clock offset: -0.036 ms

Remote clock offset: 0.096 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 485.98 Mbit/s

95th percentile per-packet one-way delay: 67.843 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 299.65 Mbit/s

95th percentile per-packet one-way delay: 69.494 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 200.37 Mbit/s

95th percentile per-packet one-way delay: 66.880 ms

Loss rate: 0.00%

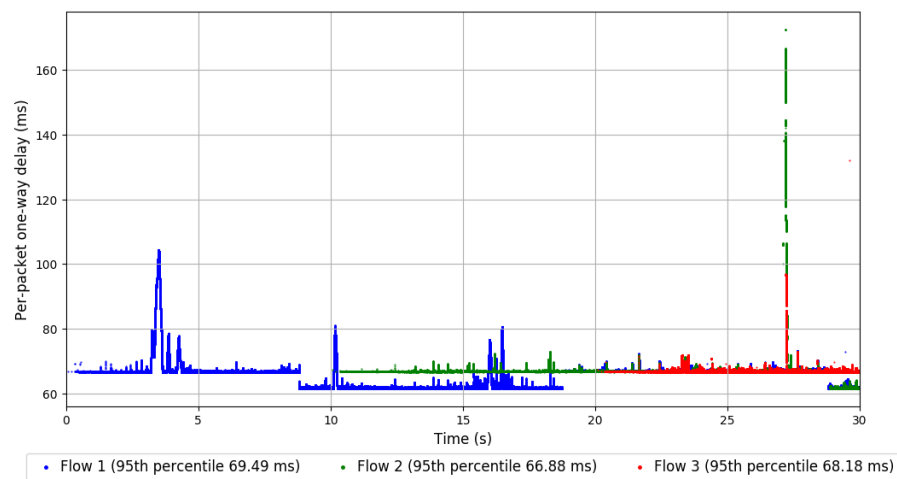
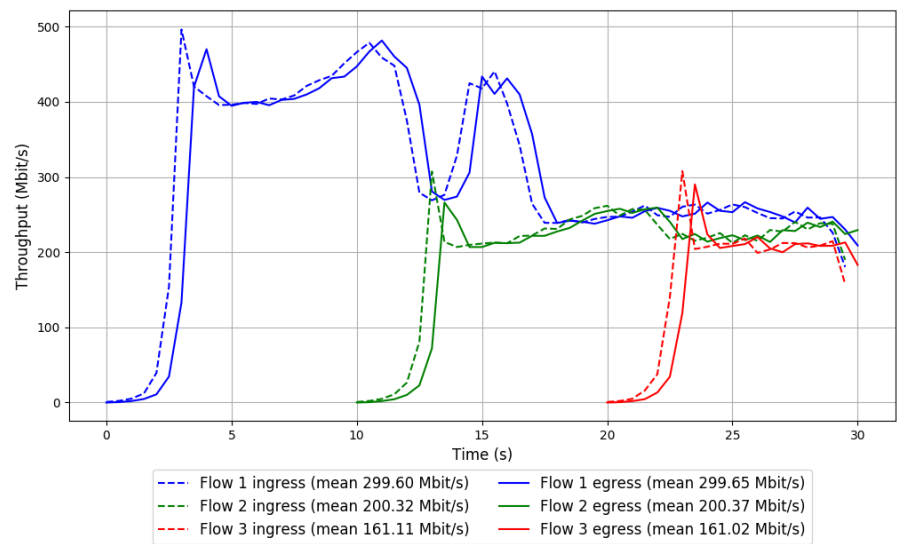
-- Flow 3:

Average throughput: 161.02 Mbit/s

95th percentile per-packet one-way delay: 68.182 ms

Loss rate: 0.10%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-05-25 04:41:00

End at: 2018-05-25 04:41:30

Local clock offset: -0.039 ms

Remote clock offset: 0.107 ms

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 458.04 Mbit/s

95th percentile per-packet one-way delay: 66.948 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 274.23 Mbit/s

95th percentile per-packet one-way delay: 66.771 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 183.18 Mbit/s

95th percentile per-packet one-way delay: 66.867 ms

Loss rate: 0.00%

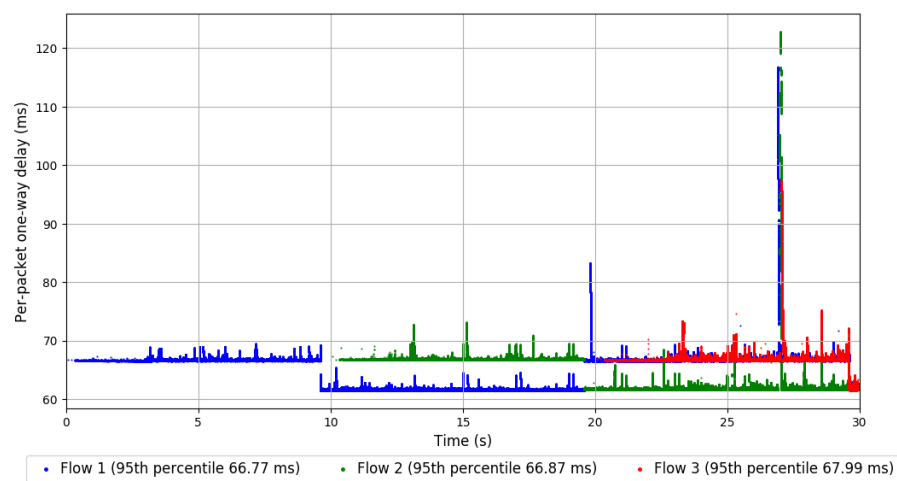
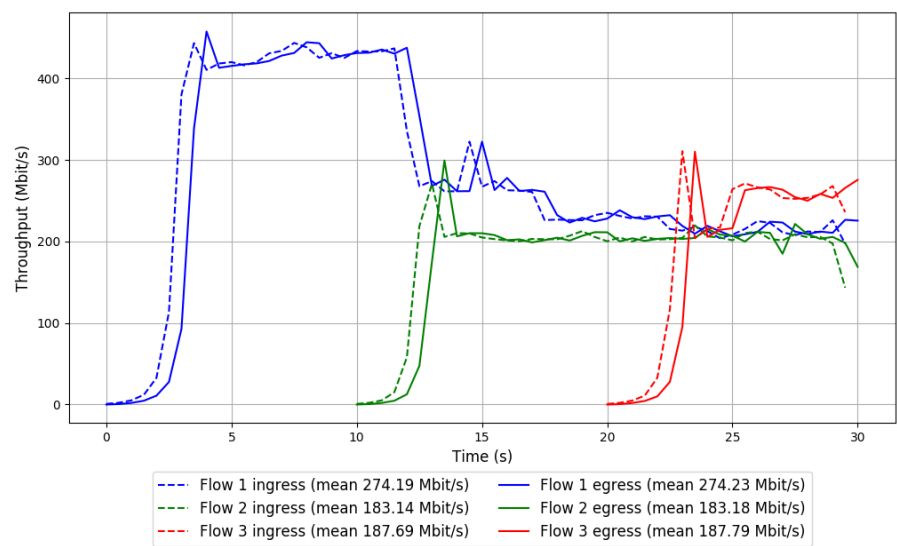
-- Flow 3:

Average throughput: 187.79 Mbit/s

95th percentile per-packet one-way delay: 67.989 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link

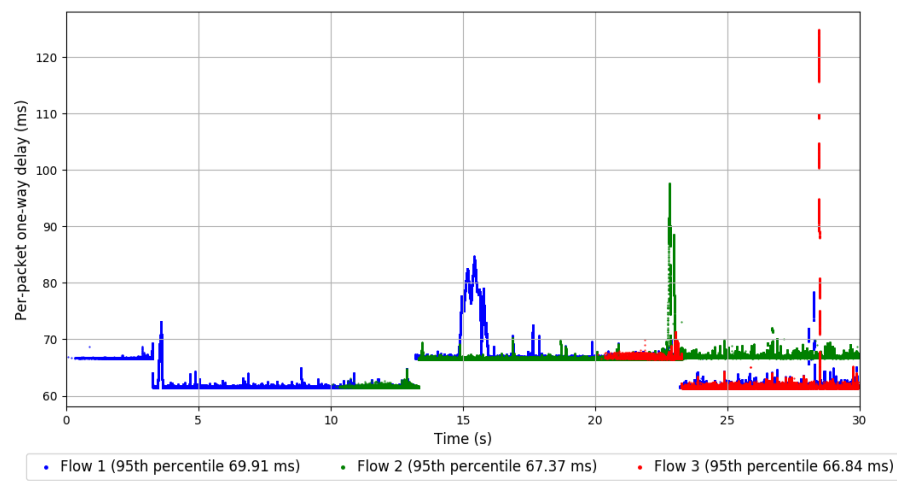
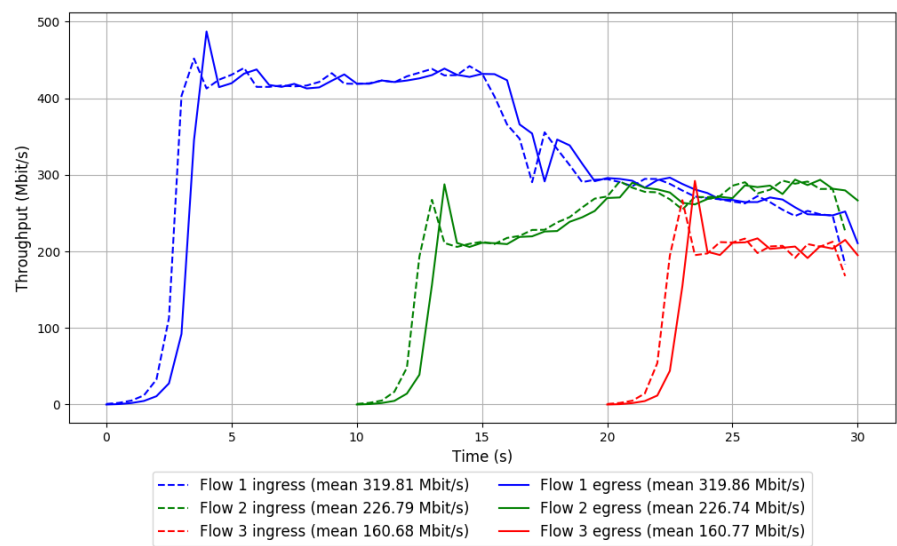


Run 6: Statistics of PCC-Vivace

Start at: 2018-05-25 05:03:26
End at: 2018-05-25 05:03:56
Local clock offset: 0.016 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2018-05-25 09:09:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 523.66 Mbit/s
95th percentile per-packet one-way delay: 67.678 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 319.86 Mbit/s
95th percentile per-packet one-way delay: 69.914 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 226.74 Mbit/s
95th percentile per-packet one-way delay: 67.369 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 160.77 Mbit/s
95th percentile per-packet one-way delay: 66.837 ms
Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link

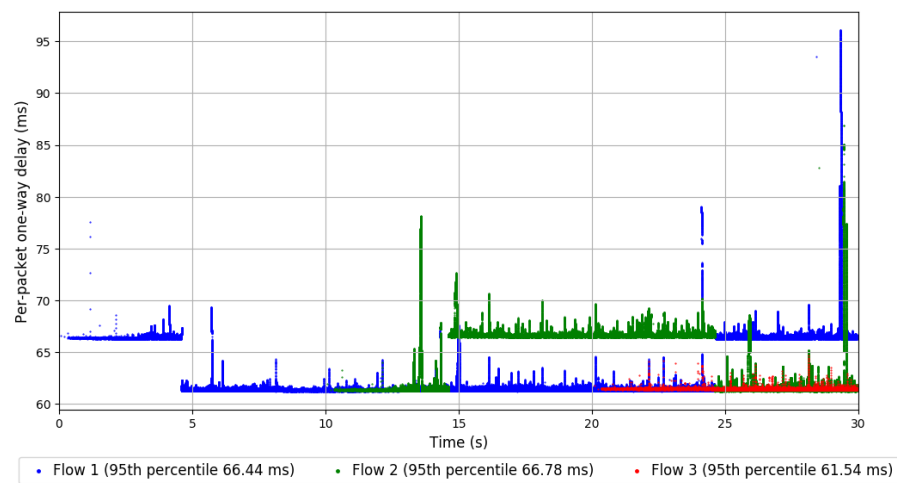
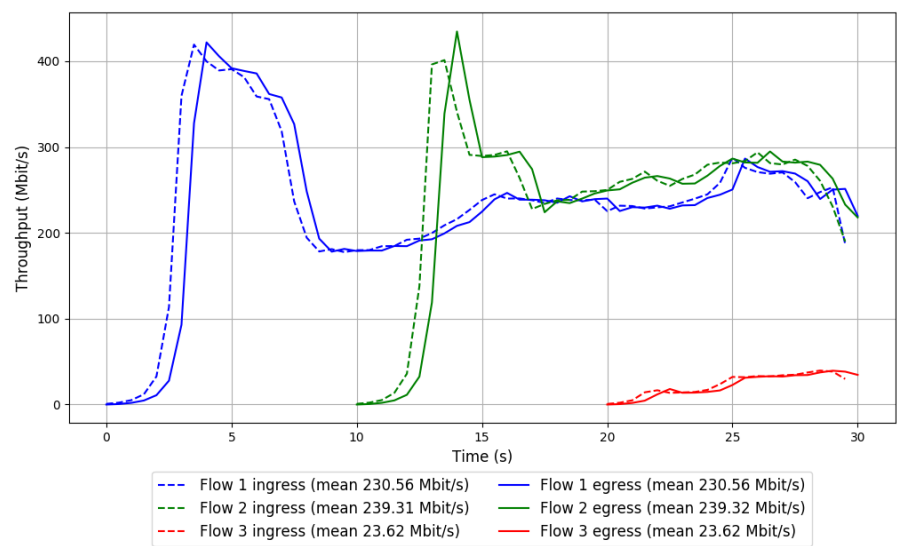


Run 7: Statistics of PCC-Vivace

Start at: 2018-05-25 05:25:45
End at: 2018-05-25 05:26:15
Local clock offset: -0.064 ms
Remote clock offset: -0.175 ms

Below is generated by plot.py at 2018-05-25 09:09:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 397.56 Mbit/s
95th percentile per-packet one-way delay: 66.609 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 230.56 Mbit/s
95th percentile per-packet one-way delay: 66.442 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 239.32 Mbit/s
95th percentile per-packet one-way delay: 66.781 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 23.62 Mbit/s
95th percentile per-packet one-way delay: 61.539 ms
Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link

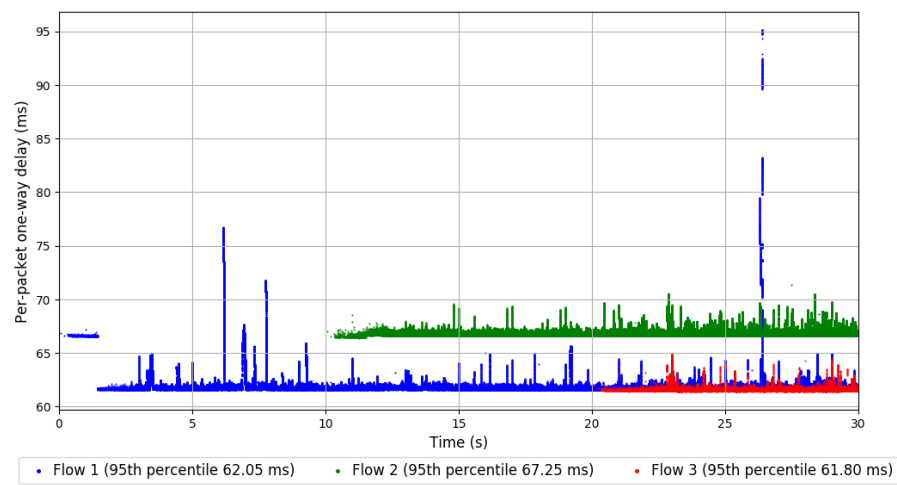
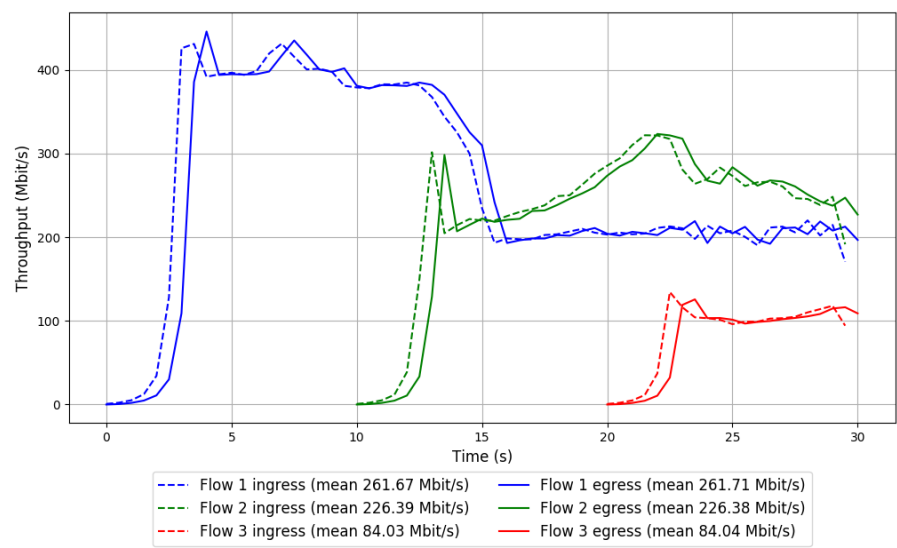


Run 8: Statistics of PCC-Vivace

Start at: 2018-05-25 05:48:08
End at: 2018-05-25 05:48:38
Local clock offset: -0.078 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2018-05-25 09:09:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 439.95 Mbit/s
95th percentile per-packet one-way delay: 66.873 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 261.71 Mbit/s
95th percentile per-packet one-way delay: 62.046 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 226.38 Mbit/s
95th percentile per-packet one-way delay: 67.246 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 84.04 Mbit/s
95th percentile per-packet one-way delay: 61.800 ms
Loss rate: 0.00%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-05-25 06:10:52

End at: 2018-05-25 06:11:22

Local clock offset: -0.095 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2018-05-25 09:10:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 502.27 Mbit/s

95th percentile per-packet one-way delay: 66.753 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 294.29 Mbit/s

95th percentile per-packet one-way delay: 66.853 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 232.53 Mbit/s

95th percentile per-packet one-way delay: 66.634 ms

Loss rate: 0.00%

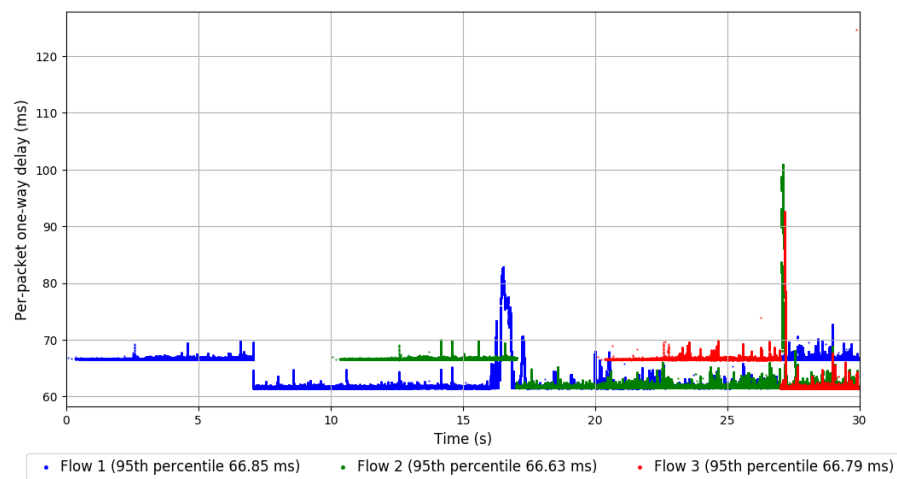
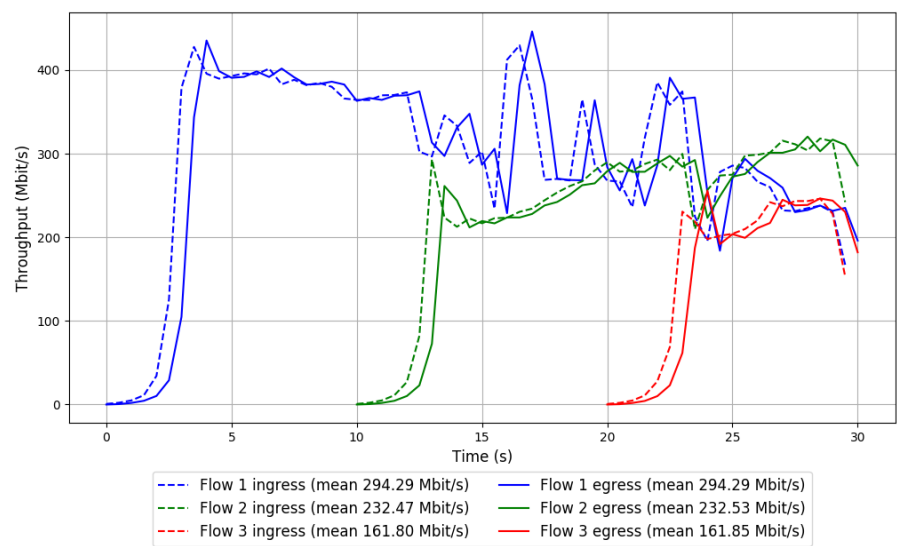
-- Flow 3:

Average throughput: 161.85 Mbit/s

95th percentile per-packet one-way delay: 66.789 ms

Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link

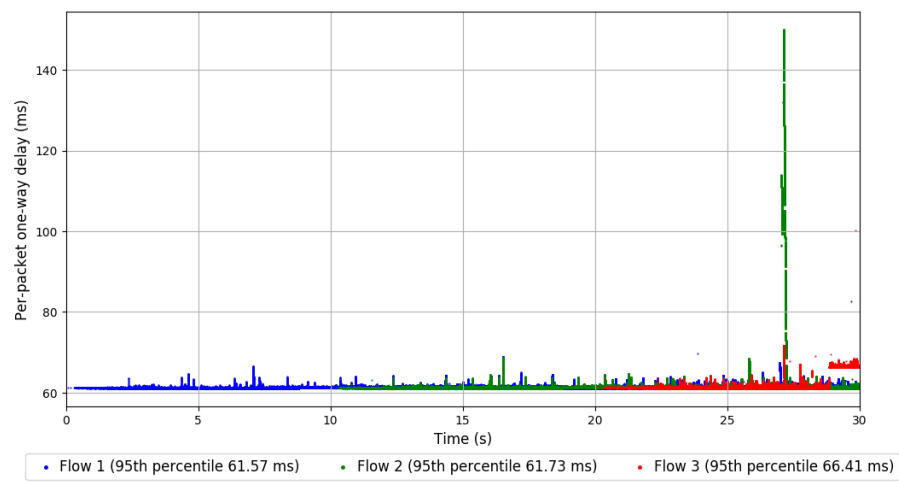
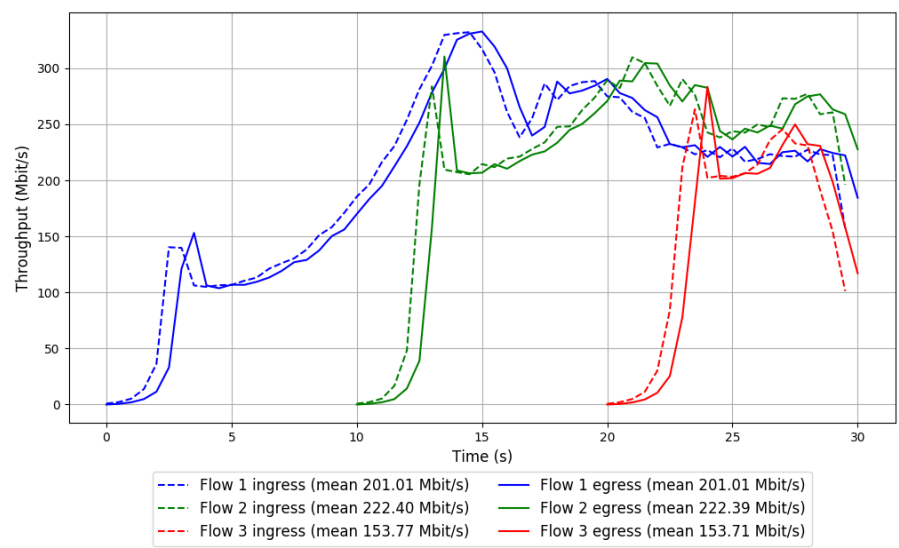


Run 10: Statistics of PCC-Vivace

Start at: 2018-05-25 06:33:41
End at: 2018-05-25 06:34:11
Local clock offset: -0.054 ms
Remote clock offset: -0.282 ms

Below is generated by plot.py at 2018-05-25 09:10:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 399.60 Mbit/s
95th percentile per-packet one-way delay: 61.834 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 201.01 Mbit/s
95th percentile per-packet one-way delay: 61.567 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 222.39 Mbit/s
95th percentile per-packet one-way delay: 61.725 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 153.71 Mbit/s
95th percentile per-packet one-way delay: 66.408 ms
Loss rate: 0.05%

Run 10: Report of PCC-Vivace — Data Link

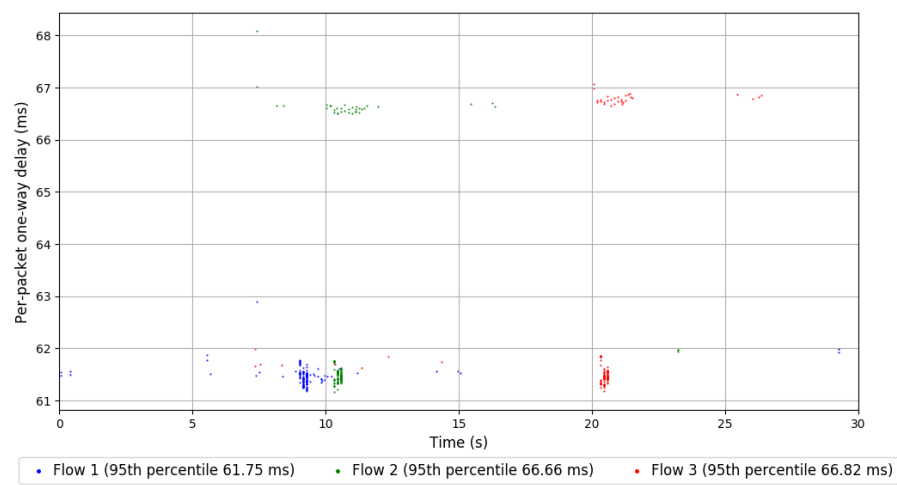
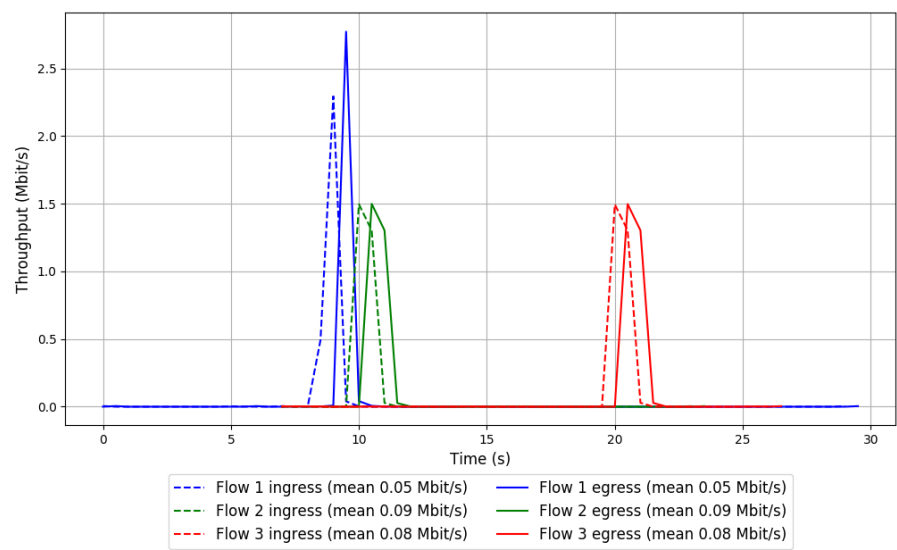


Run 1: Statistics of WebRTC media

Start at: 2018-05-25 03:01:10
End at: 2018-05-25 03:01:40
Local clock offset: -0.097 ms
Remote clock offset: -0.102 ms

Below is generated by plot.py at 2018-05-25 09:10:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 66.730 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 61.748 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 66.658 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 66.824 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

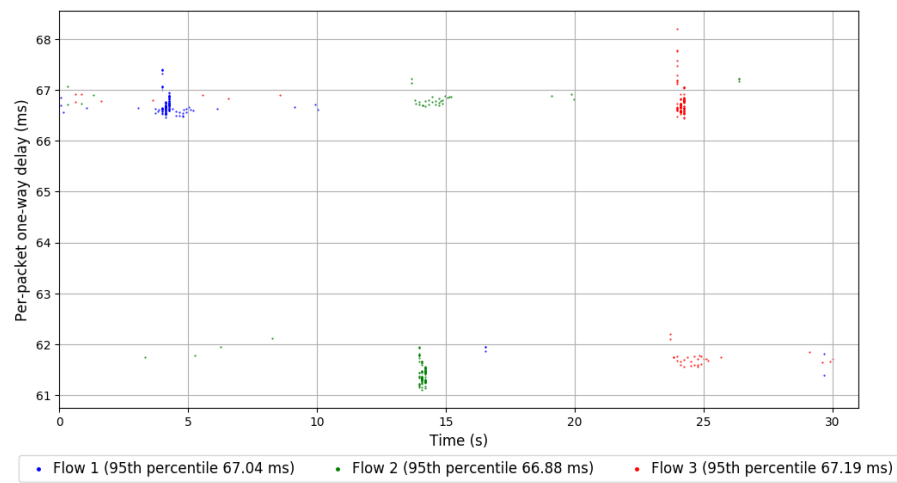
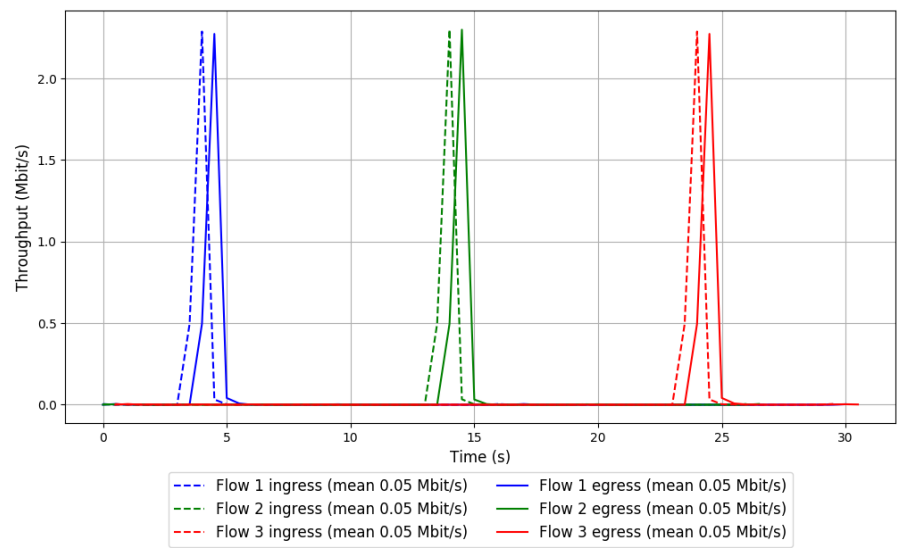


Run 2: Statistics of WebRTC media

Start at: 2018-05-25 03:23:30
End at: 2018-05-25 03:24:00
Local clock offset: -0.029 ms
Remote clock offset: -0.074 ms

Below is generated by plot.py at 2018-05-25 09:10:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 67.067 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 67.044 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 66.881 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 67.189 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-05-25 03:46:06

End at: 2018-05-25 03:46:36

Local clock offset: 0.062 ms

Remote clock offset: 0.067 ms

Below is generated by plot.py at 2018-05-25 09:10:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 67.077 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 67.386 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 67.045 ms

Loss rate: 0.00%

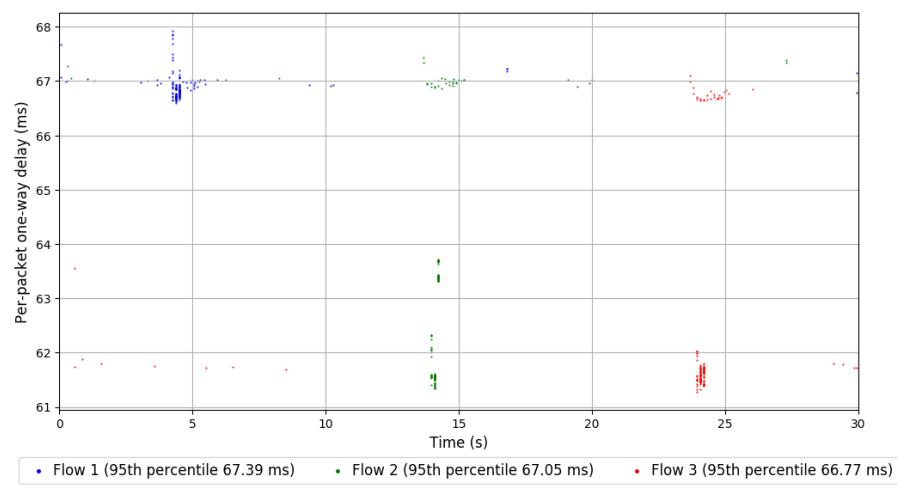
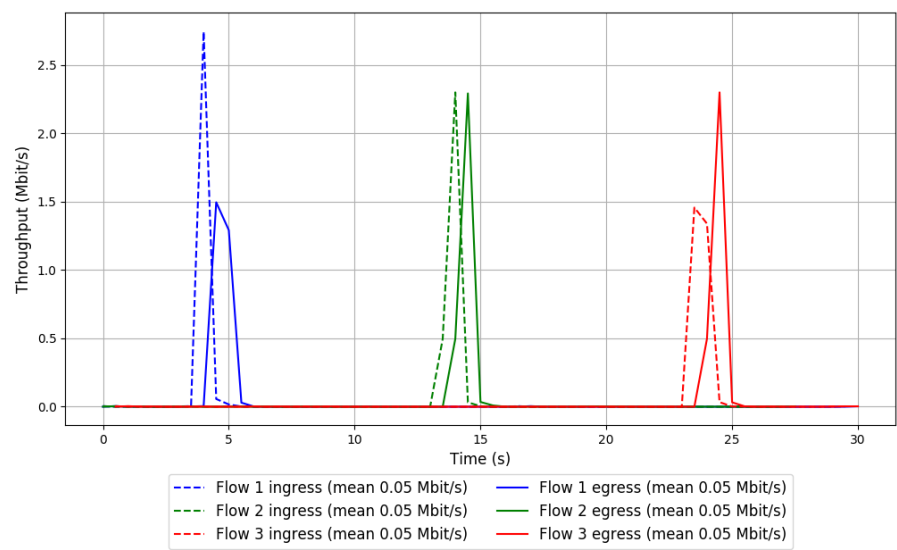
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 66.773 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-05-25 04:08:40

End at: 2018-05-25 04:09:10

Local clock offset: 0.025 ms

Remote clock offset: 0.135 ms

Below is generated by plot.py at 2018-05-25 09:10:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 67.255 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 67.255 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

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

Loss rate: 0.00%

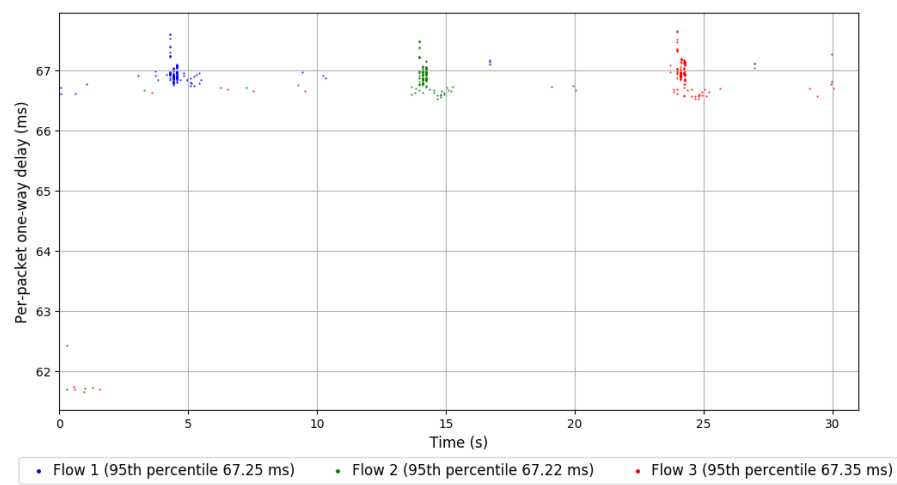
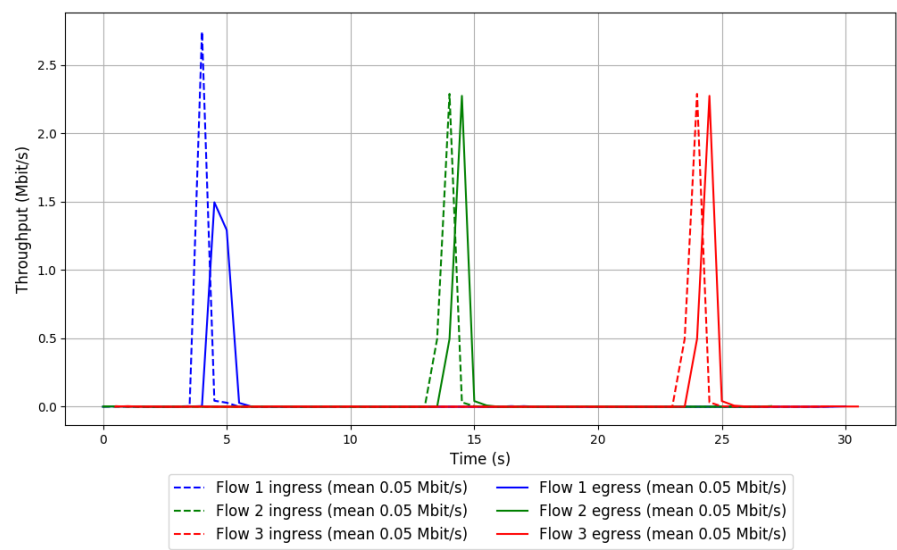
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 67.348 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-05-25 04:31:20

End at: 2018-05-25 04:31:50

Local clock offset: -0.063 ms

Remote clock offset: 0.121 ms

Below is generated by plot.py at 2018-05-25 09:10:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 67.108 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 66.841 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 67.330 ms

Loss rate: 0.00%

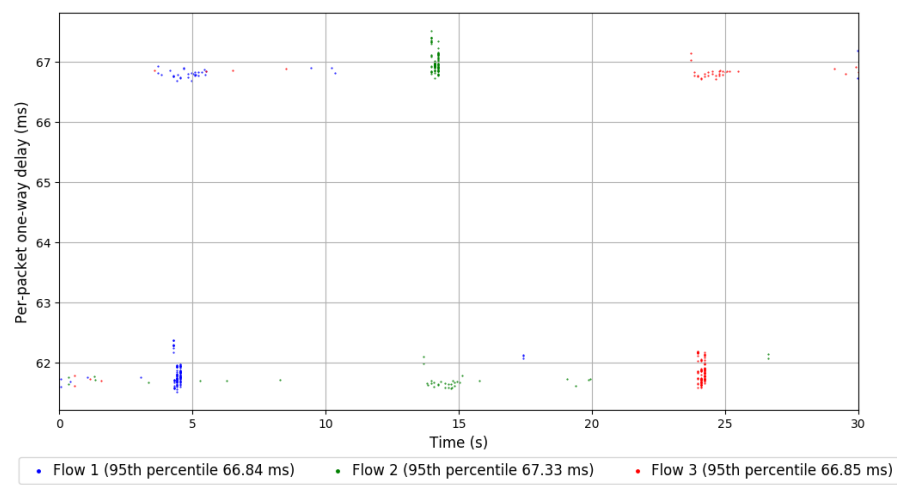
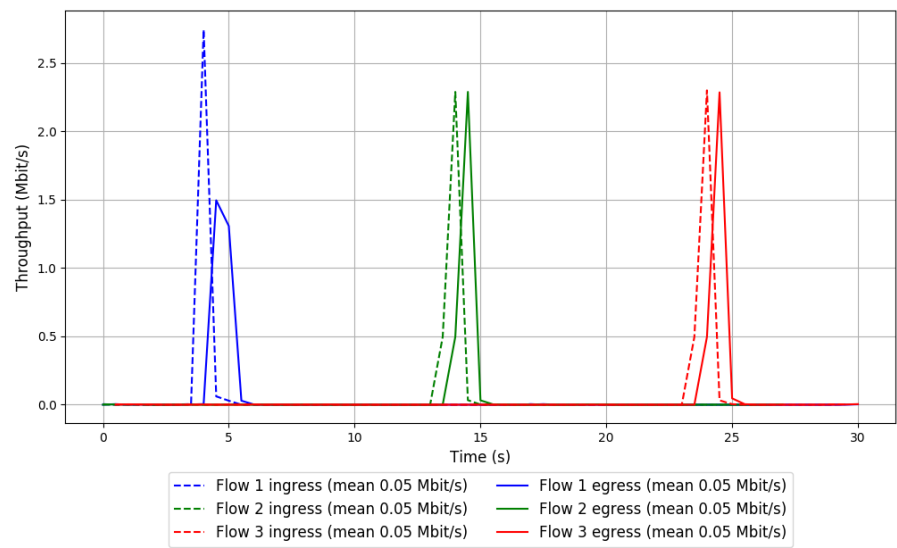
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 66.848 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-05-25 04:53:48

End at: 2018-05-25 04:54:18

Local clock offset: -0.005 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-05-25 09:10:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 67.185 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 67.438 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 67.294 ms

Loss rate: 0.00%

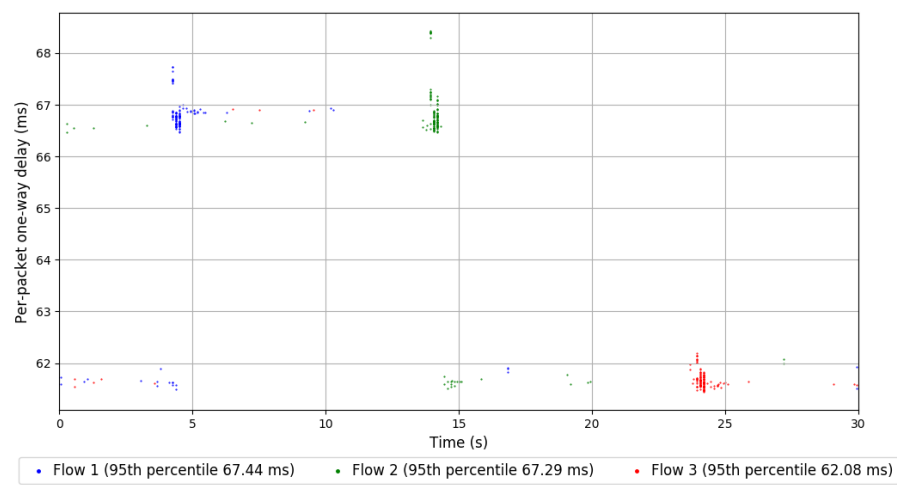
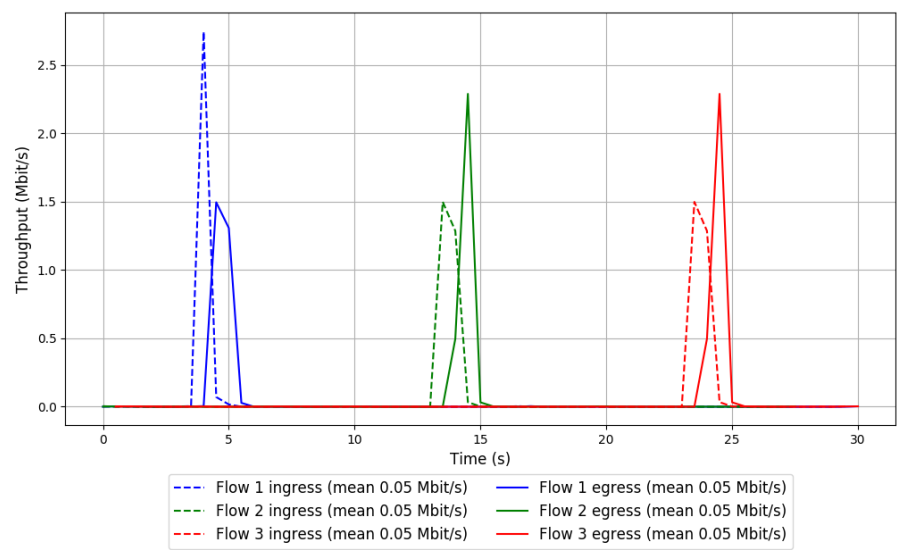
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 62.079 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-05-25 05:16:13

End at: 2018-05-25 05:16:43

Local clock offset: -0.031 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-05-25 09:10:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 66.751 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 66.737 ms

Loss rate: 0.00%

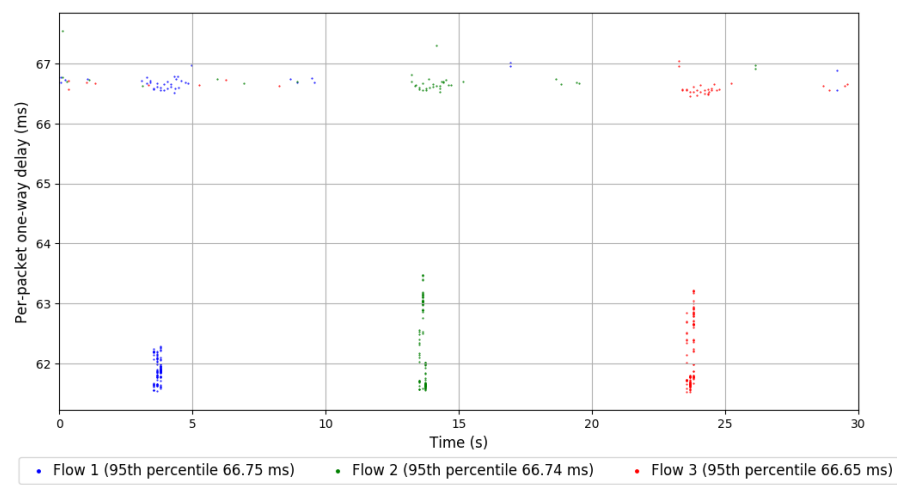
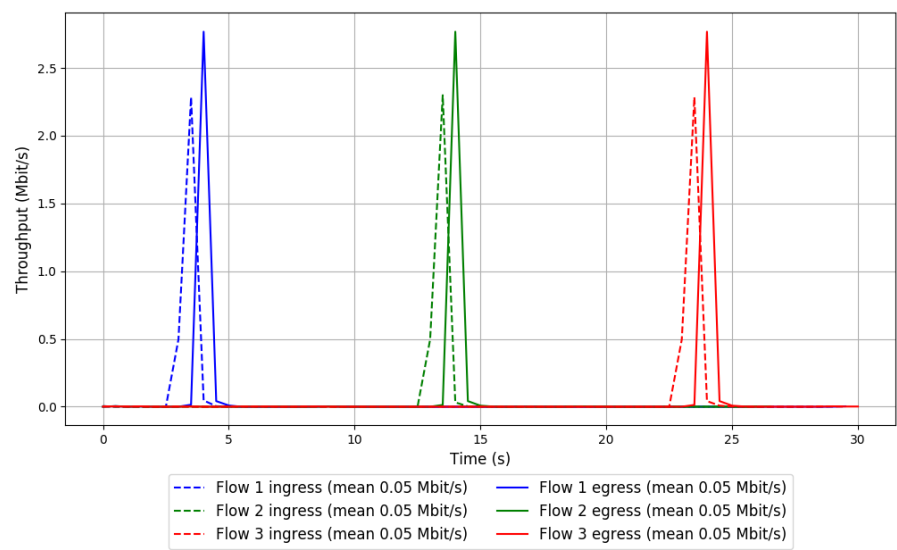
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 66.653 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-05-25 05:38:27

End at: 2018-05-25 05:38:57

Local clock offset: -0.024 ms

Remote clock offset: 0.312 ms

Below is generated by plot.py at 2018-05-25 09:10:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 67.646 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 67.494 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 67.810 ms

Loss rate: 0.00%

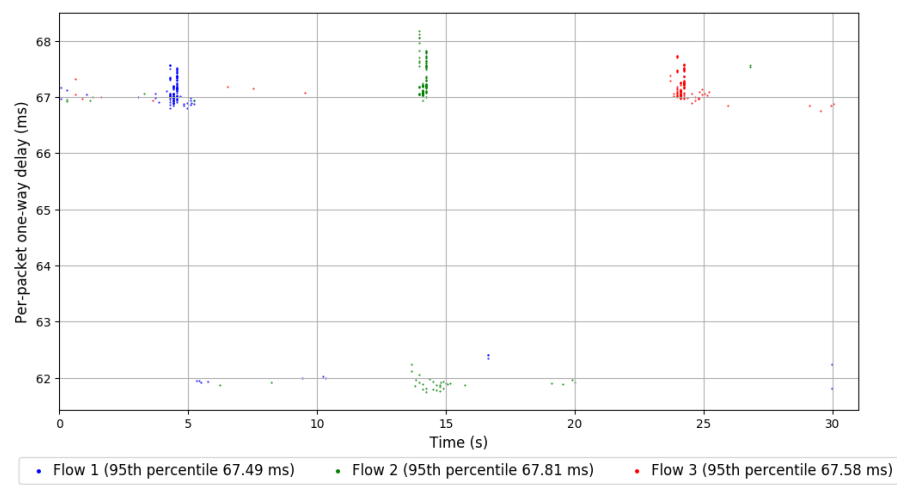
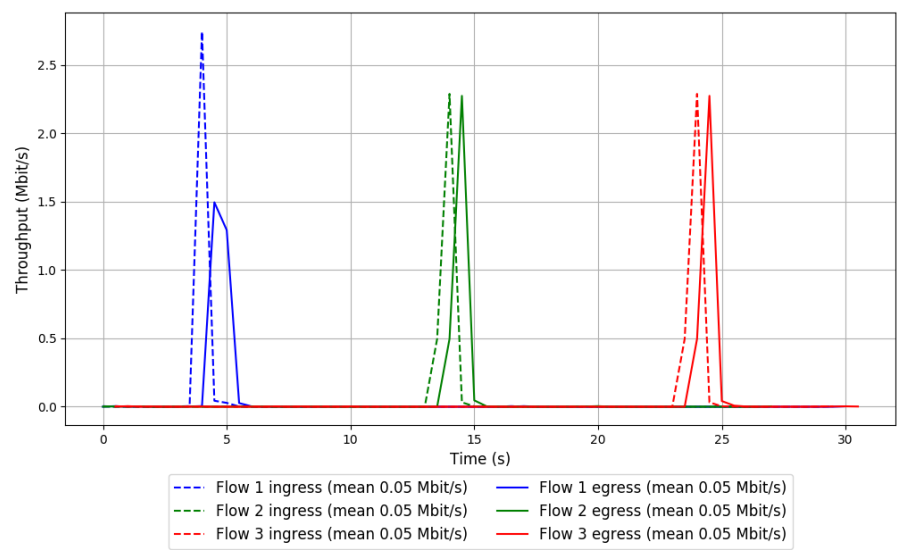
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 67.578 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-05-25 06:01:10

End at: 2018-05-25 06:01:40

Local clock offset: -0.086 ms

Remote clock offset: 0.199 ms

Below is generated by plot.py at 2018-05-25 09:10:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 67.368 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 67.306 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 67.308 ms

Loss rate: 0.00%

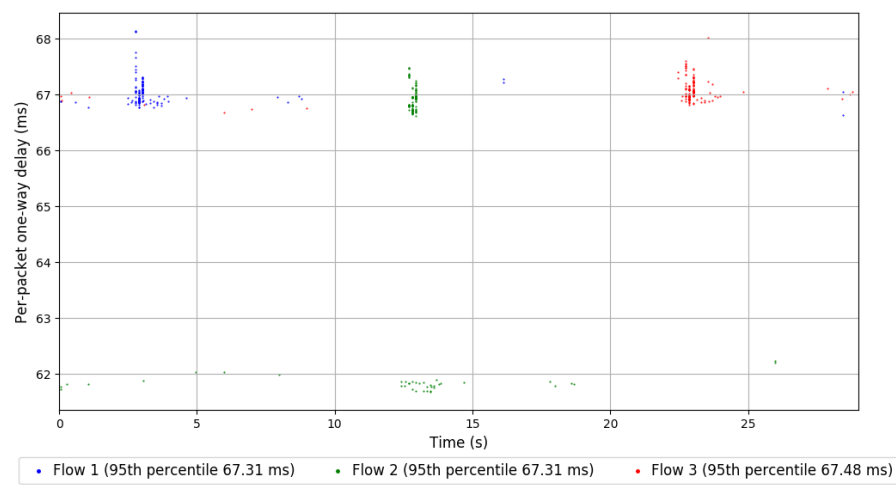
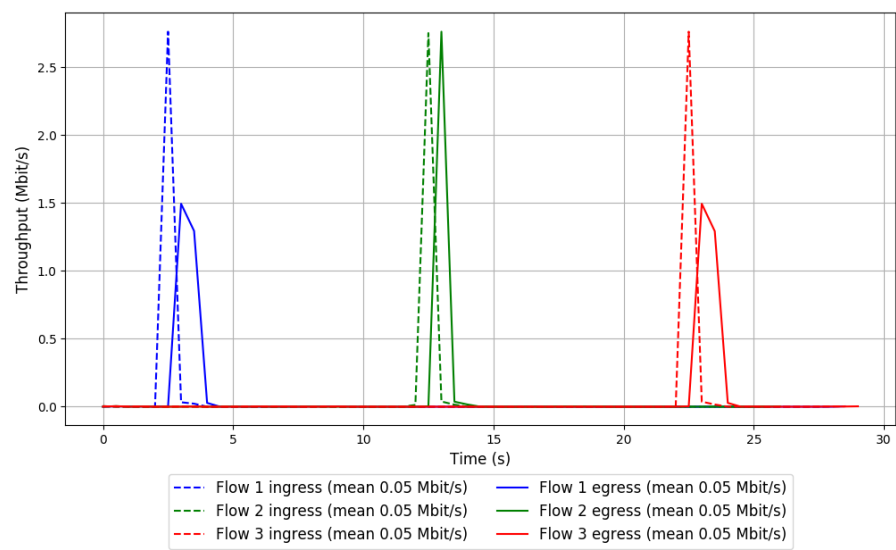
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 67.477 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-25 06:23:48
End at: 2018-05-25 06:24:18
Local clock offset: -0.071 ms
Remote clock offset: -0.061 ms

Below is generated by plot.py at 2018-05-25 09:10:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 67.296 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 67.625 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 67.255 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 67.193 ms
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

