

## Pantheon Report

Generated at 2018-06-19 16:46:57 (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.

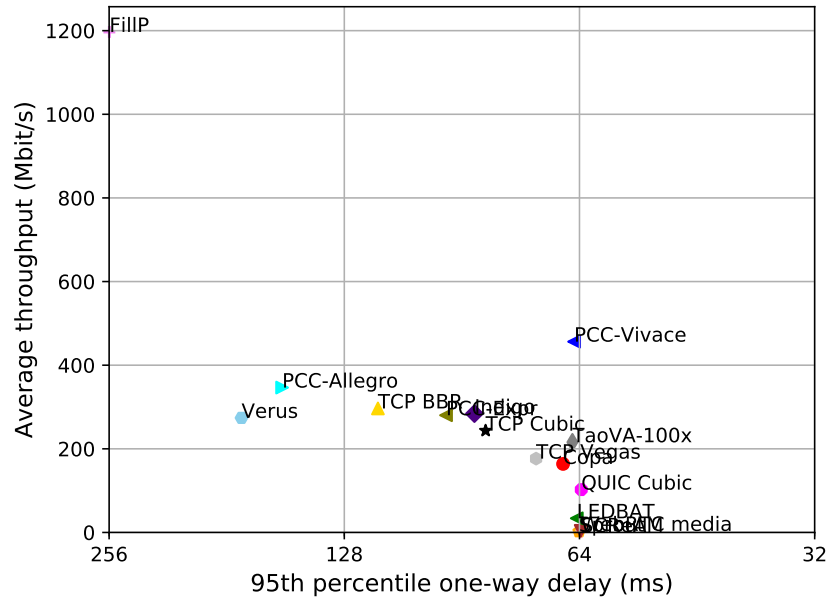
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

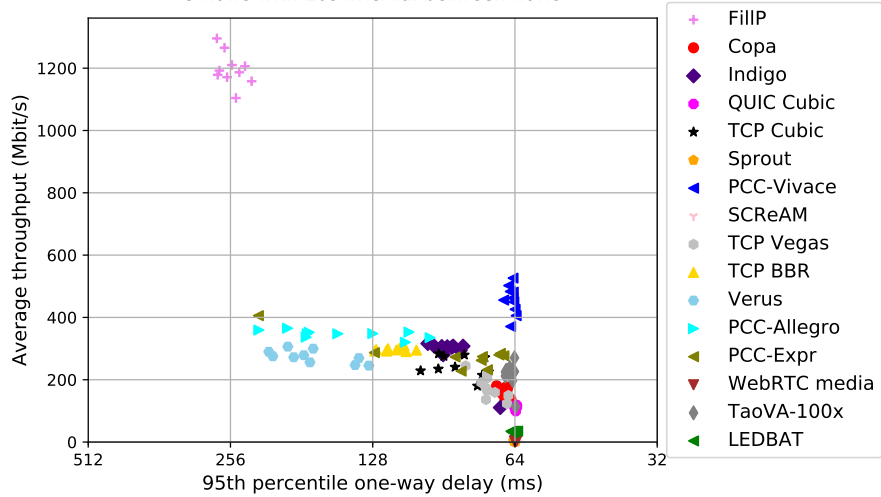
Git summary:

```
branch: master @ 9141c5f9450c85ea5ea2ea755a8e946998d3abf3
third_party/fillp @ 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-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from 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	155.15	147.42	130.21	111.79	115.67	121.33	0.12	0.16	0.32
Copa	10	88.23	84.88	67.86	66.40	67.63	69.06	0.00	0.00	0.01
TCP Cubic	10	146.09	99.67	93.61	82.21	85.39	88.07	0.02	0.12	0.10
FillP	10	613.49	611.82	531.54	258.50	257.77	189.45	0.65	1.19	0.55
Indigo	10	157.26	144.35	96.30	84.11	87.63	95.74	0.02	0.04	0.12
LEDBAT	10	21.62	14.82	7.21	64.61	64.39	64.01	0.00	0.00	0.00
PCC-Allegro	10	318.37	31.68	21.40	153.74	153.41	152.89	0.34	0.33	0.60
PCC-Expr	10	182.28	126.94	41.10	90.43	98.42	104.79	0.33	0.58	0.78
QUIC Cubic	10	49.77	53.49	52.81	63.46	63.83	63.50	0.00	0.00	0.00
SCReAM	10	0.22	0.22	0.22	63.58	64.56	63.61	0.00	0.00	0.00
Sprout	10	0.85	1.21	1.18	64.07	63.96	63.79	0.00	0.00	0.02
TaoVA-100x	10	122.64	101.90	77.37	64.51	66.60	67.50	0.01	0.01	0.00
TCP Vegas	10	92.44	89.12	74.84	71.15	71.99	72.73	0.01	0.02	0.06
Verus	10	170.70	107.57	99.22	162.44	175.43	185.26	0.30	0.57	0.66
PCC-Vivace	10	255.73	232.80	138.77	64.17	67.40	65.49	0.03	0.04	0.00
WebRTC media	10	1.98	1.34	0.54	63.48	63.27	63.75	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-06-19 11:05:46

End at: 2018-06-19 11:06:16

Local clock offset: -0.295 ms

Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2018-06-19 14:50:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 309.17 Mbit/s

95th percentile per-packet one-way delay: 109.898 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 161.69 Mbit/s

95th percentile per-packet one-way delay: 103.701 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 156.36 Mbit/s

95th percentile per-packet one-way delay: 110.314 ms

Loss rate: 0.18%

-- Flow 3:

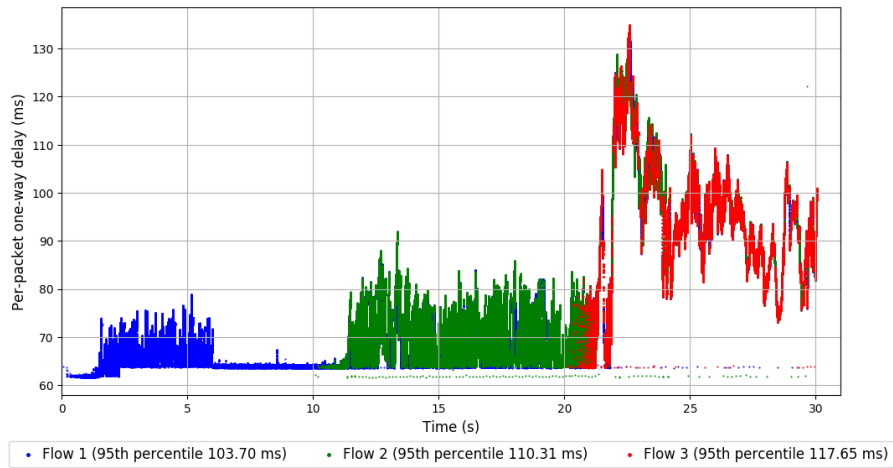
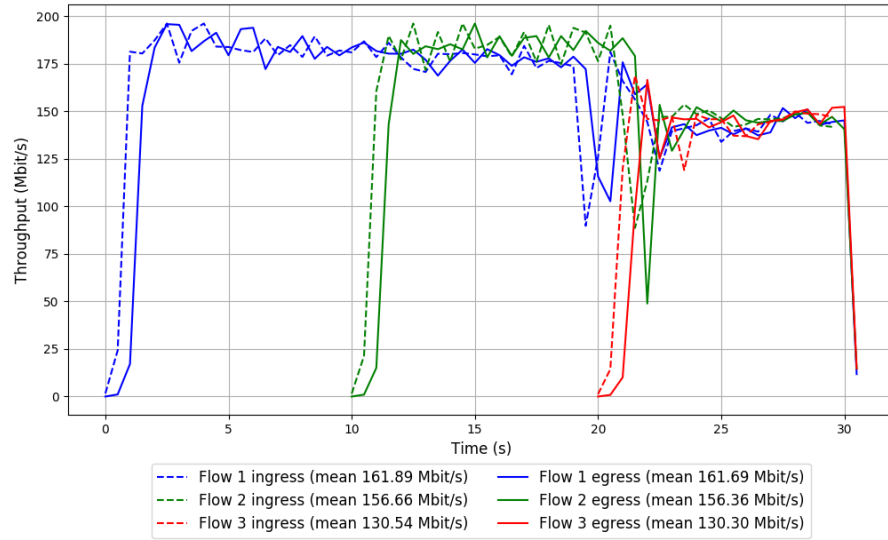
Average throughput: 130.30 Mbit/s

95th percentile per-packet one-way delay: 117.647 ms

Loss rate: 0.17%



# Run 1: Report of TCP BBR — Data Link

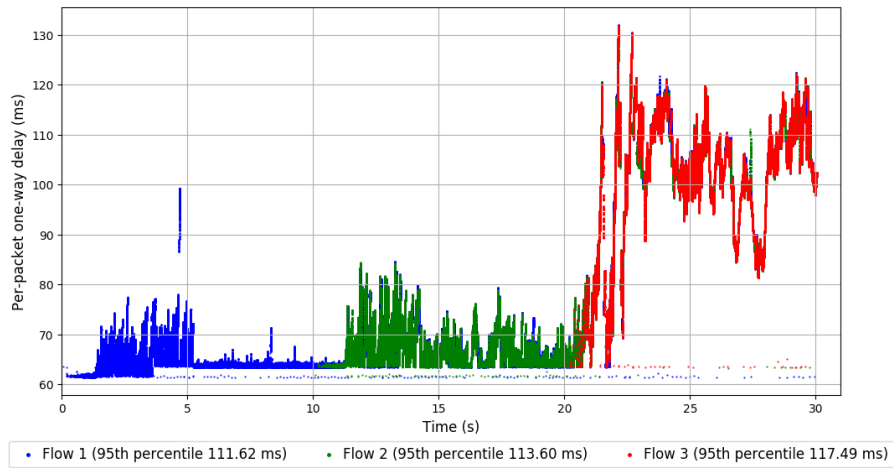
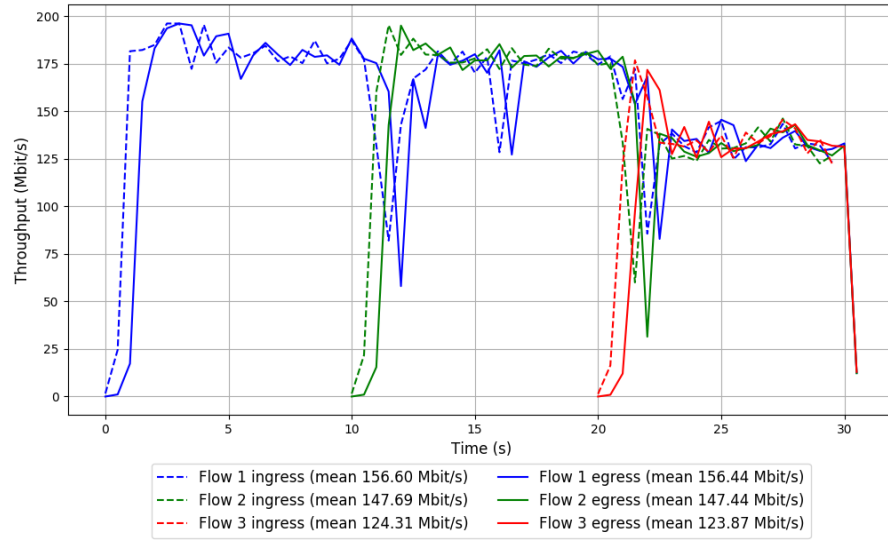


Run 2: Statistics of TCP BBR

Start at: 2018-06-19 11:28:14  
End at: 2018-06-19 11:28:44  
Local clock offset: -0.276 ms  
Remote clock offset: -0.236 ms

# Below is generated by plot.py at 2018-06-19 14:50:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 295.81 Mbit/s  
95th percentile per-packet one-way delay: 113.988 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 156.44 Mbit/s  
95th percentile per-packet one-way delay: 111.621 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 147.44 Mbit/s  
95th percentile per-packet one-way delay: 113.599 ms  
Loss rate: 0.16%  
-- Flow 3:  
Average throughput: 123.87 Mbit/s  
95th percentile per-packet one-way delay: 117.490 ms  
Loss rate: 0.38%

## Run 2: Report of TCP BBR — Data Link

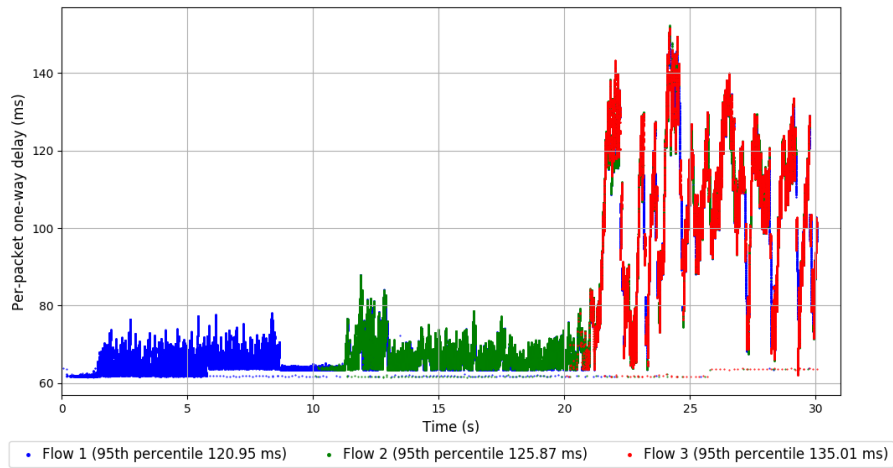
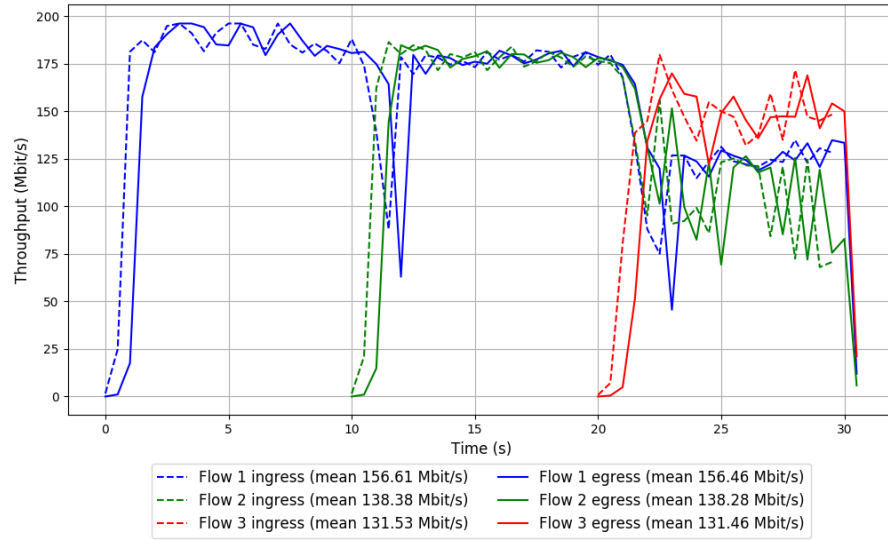


Run 3: Statistics of TCP BBR

Start at: 2018-06-19 11:50:42  
End at: 2018-06-19 11:51:12  
Local clock offset: 0.052 ms  
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2018-06-19 14:50:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 292.18 Mbit/s  
95th percentile per-packet one-way delay: 126.770 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 156.46 Mbit/s  
95th percentile per-packet one-way delay: 120.950 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 138.28 Mbit/s  
95th percentile per-packet one-way delay: 125.869 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 131.46 Mbit/s  
95th percentile per-packet one-way delay: 135.007 ms  
Loss rate: 0.06%

### Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-06-19 12:13:23

End at: 2018-06-19 12:13:53

Local clock offset: 0.245 ms

Remote clock offset: 0.386 ms

# Below is generated by plot.py at 2018-06-19 14:50:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 299.66 Mbit/s

95th percentile per-packet one-way delay: 118.890 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 158.67 Mbit/s

95th percentile per-packet one-way delay: 114.828 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 147.92 Mbit/s

95th percentile per-packet one-way delay: 118.817 ms

Loss rate: 0.14%

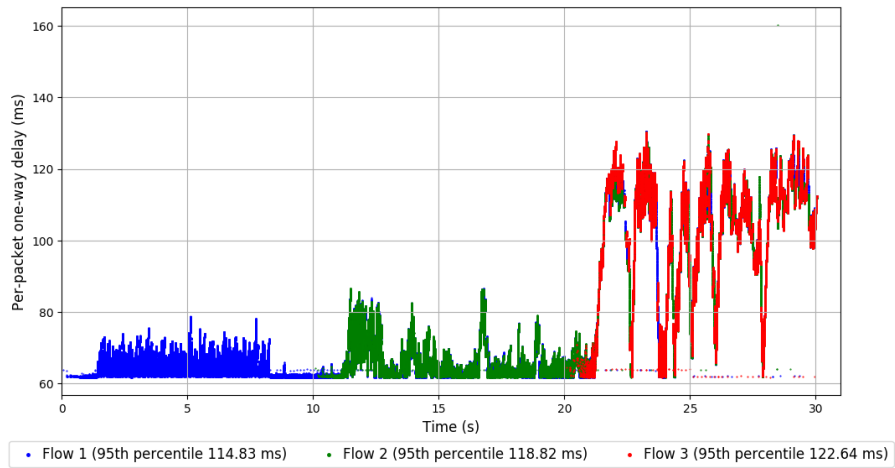
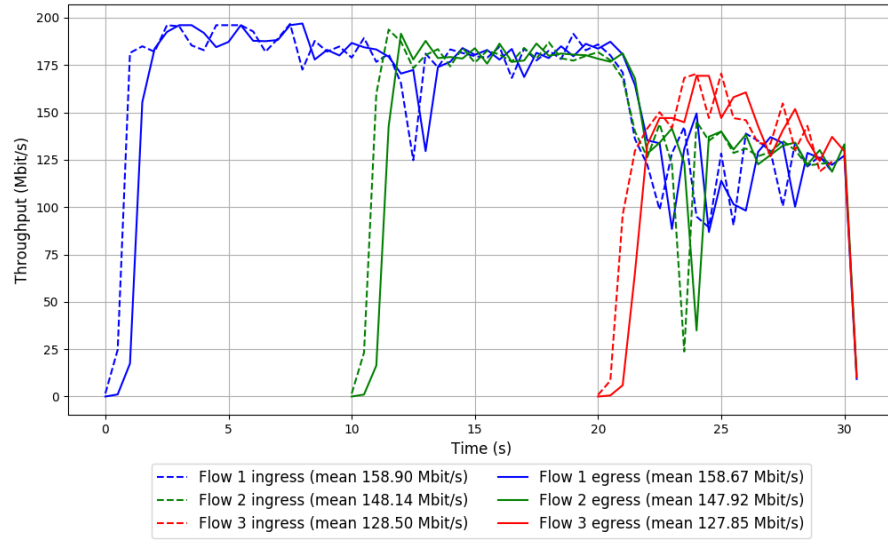
-- Flow 3:

Average throughput: 127.85 Mbit/s

95th percentile per-packet one-way delay: 122.645 ms

Loss rate: 0.36%

# Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-06-19 12:36:00

End at: 2018-06-19 12:36:30

Local clock offset: -0.053 ms

Remote clock offset: 0.188 ms

# Below is generated by plot.py at 2018-06-19 14:50:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 296.88 Mbit/s

95th percentile per-packet one-way delay: 125.817 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 156.81 Mbit/s

95th percentile per-packet one-way delay: 122.477 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 151.20 Mbit/s

95th percentile per-packet one-way delay: 125.025 ms

Loss rate: 0.21%

-- Flow 3:

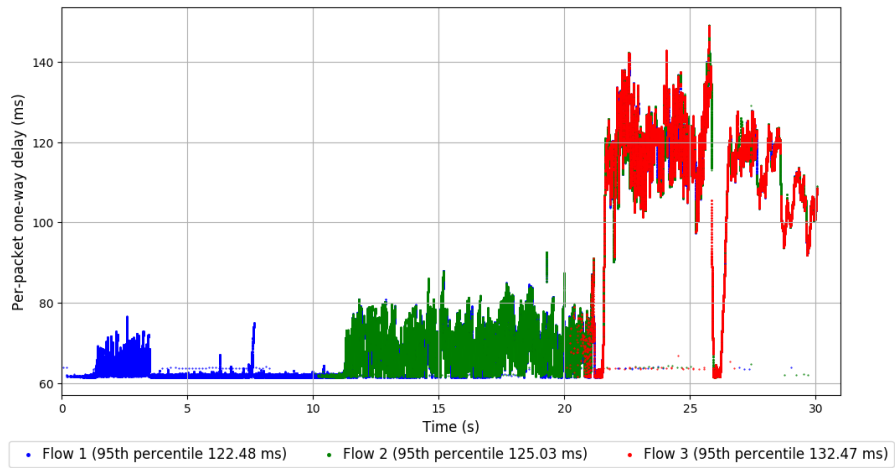
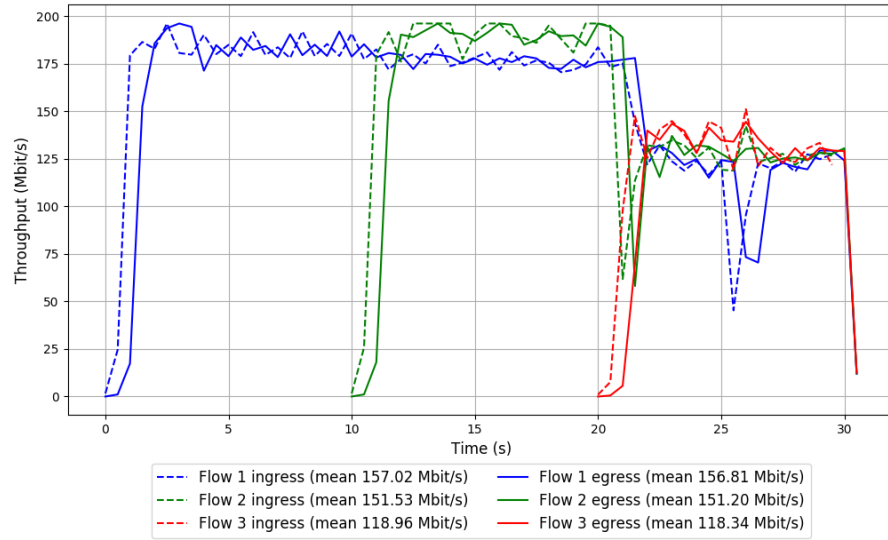
Average throughput: 118.34 Mbit/s

95th percentile per-packet one-way delay: 132.474 ms

Loss rate: 0.52%



# Run 5: Report of TCP BBR — Data Link

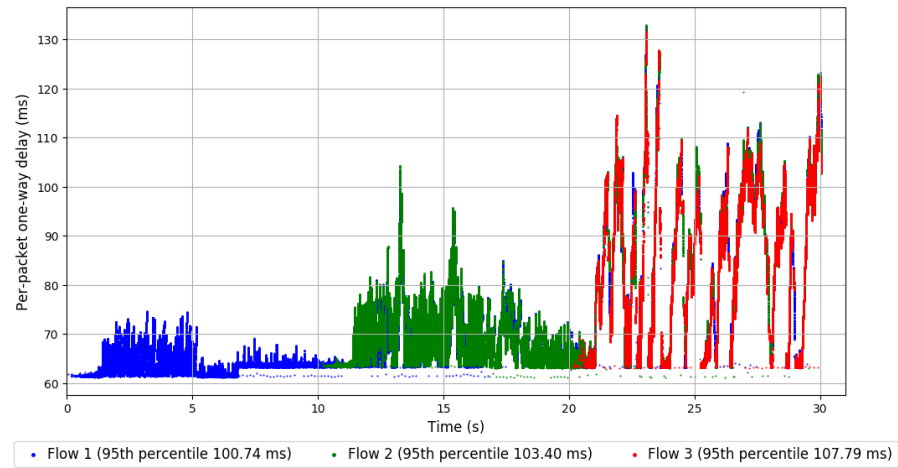
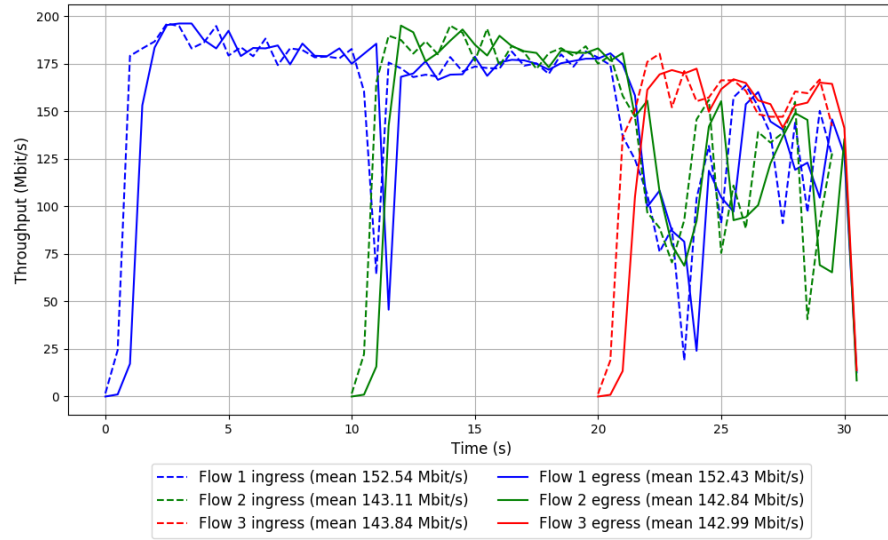


Run 6: Statistics of TCP BBR

Start at: 2018-06-19 12:58:31  
End at: 2018-06-19 12:59:01  
Local clock offset: 0.226 ms  
Remote clock offset: -0.218 ms

# Below is generated by plot.py at 2018-06-19 14:50:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 295.00 Mbit/s  
95th percentile per-packet one-way delay: 103.431 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 152.43 Mbit/s  
95th percentile per-packet one-way delay: 100.737 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 142.84 Mbit/s  
95th percentile per-packet one-way delay: 103.404 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 142.99 Mbit/s  
95th percentile per-packet one-way delay: 107.791 ms  
Loss rate: 0.50%

## Run 6: Report of TCP BBR — Data Link

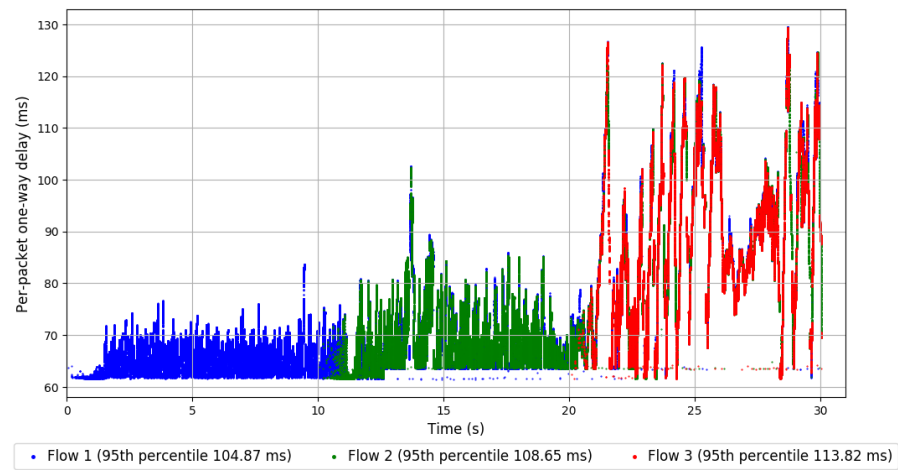
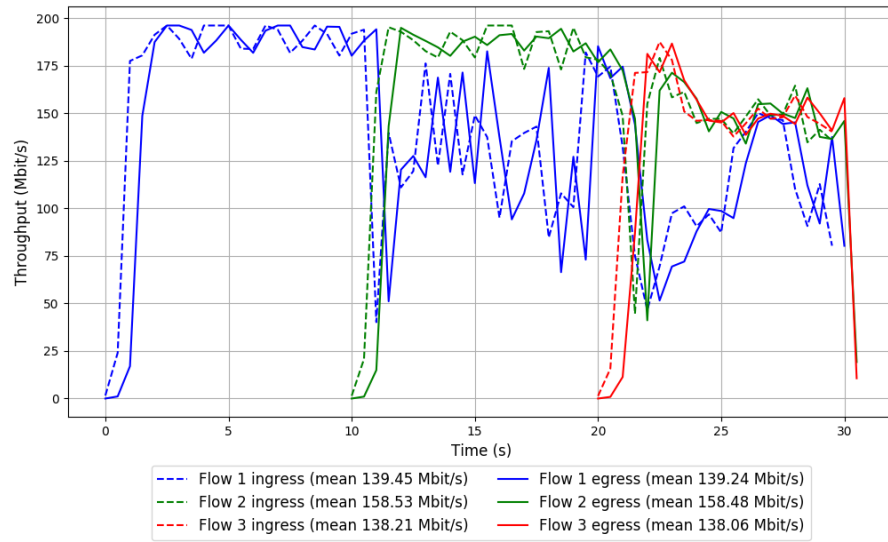


Run 7: Statistics of TCP BBR

Start at: 2018-06-19 13:21:05  
End at: 2018-06-19 13:21:35  
Local clock offset: 0.257 ms  
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2018-06-19 14:50:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 290.30 Mbit/s  
95th percentile per-packet one-way delay: 108.771 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 139.24 Mbit/s  
95th percentile per-packet one-way delay: 104.873 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 158.48 Mbit/s  
95th percentile per-packet one-way delay: 108.653 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 138.06 Mbit/s  
95th percentile per-packet one-way delay: 113.819 ms  
Loss rate: 0.09%

# Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-06-19 13:43:41

End at: 2018-06-19 13:44:11

Local clock offset: 0.001 ms

Remote clock offset: 0.076 ms

# Below is generated by plot.py at 2018-06-19 14:50:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 292.28 Mbit/s

95th percentile per-packet one-way delay: 119.623 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 157.92 Mbit/s

95th percentile per-packet one-way delay: 114.735 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 134.46 Mbit/s

95th percentile per-packet one-way delay: 119.999 ms

Loss rate: 0.28%

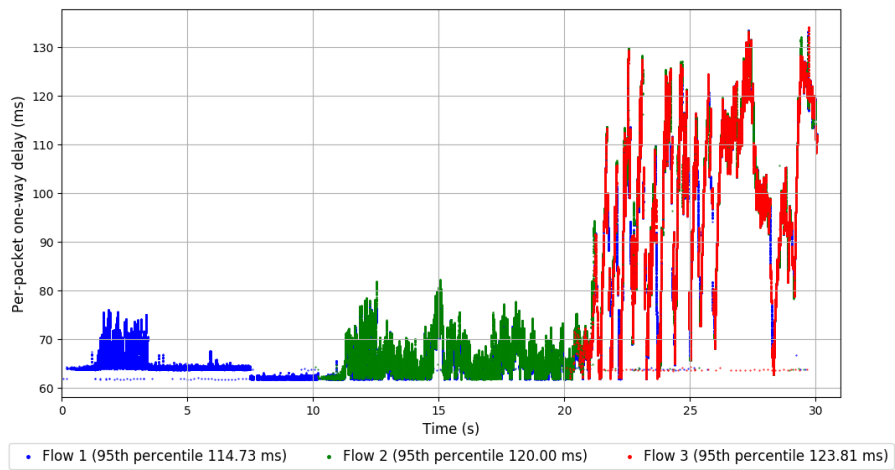
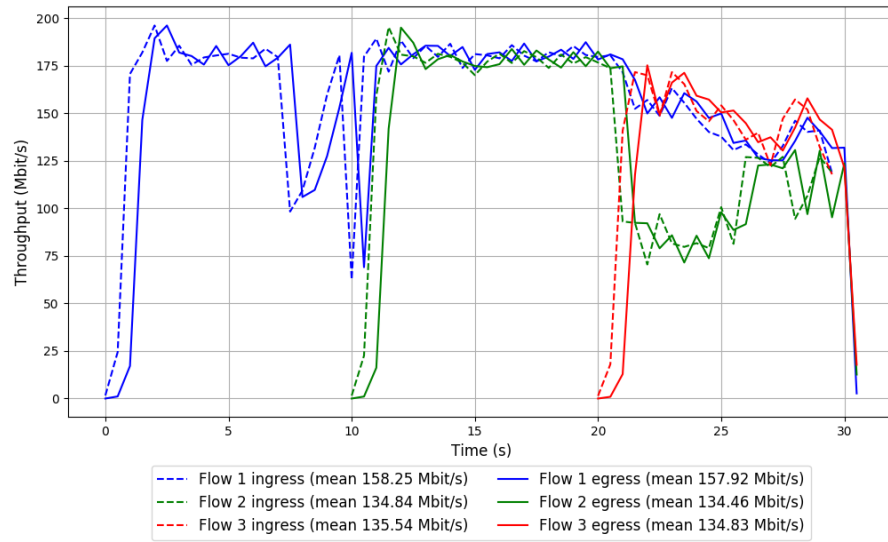
-- Flow 3:

Average throughput: 134.83 Mbit/s

95th percentile per-packet one-way delay: 123.810 ms

Loss rate: 0.12%

# Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-06-19 14:06:21

End at: 2018-06-19 14:06:51

Local clock offset: -0.069 ms

Remote clock offset: 0.286 ms

# Below is generated by plot.py at 2018-06-19 14:55:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 300.85 Mbit/s

95th percentile per-packet one-way delay: 112.337 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 158.24 Mbit/s

95th percentile per-packet one-way delay: 108.494 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 148.82 Mbit/s

95th percentile per-packet one-way delay: 111.349 ms

Loss rate: 0.14%

-- Flow 3:

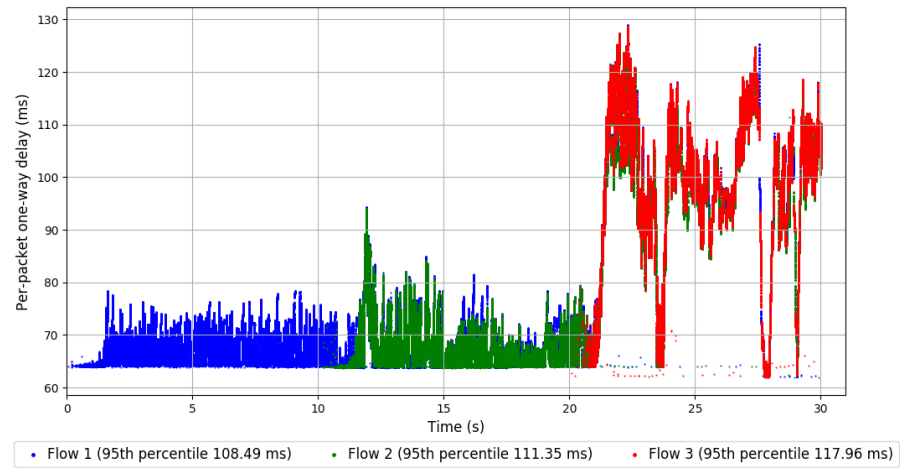
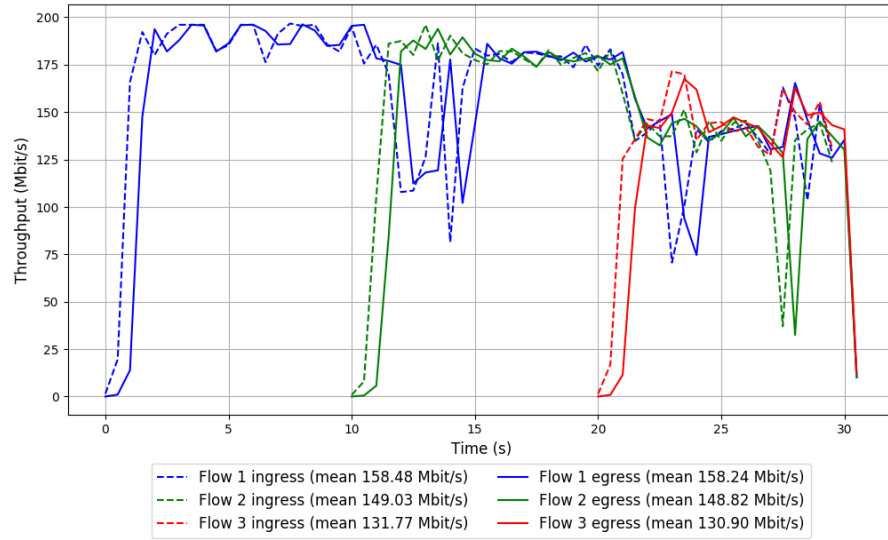
Average throughput: 130.90 Mbit/s

95th percentile per-packet one-way delay: 117.963 ms

Loss rate: 0.45%



# Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-06-19 14:28:50

End at: 2018-06-19 14:29:20

Local clock offset: -0.101 ms

Remote clock offset: 0.143 ms

# Below is generated by plot.py at 2018-06-19 14:55:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 293.54 Mbit/s

95th percentile per-packet one-way delay: 119.728 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 153.64 Mbit/s

95th percentile per-packet one-way delay: 115.499 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 148.42 Mbit/s

95th percentile per-packet one-way delay: 119.660 ms

Loss rate: 0.15%

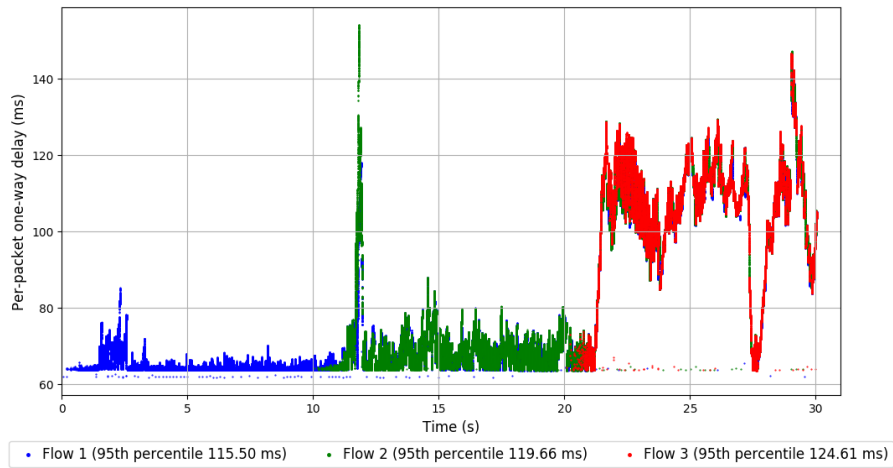
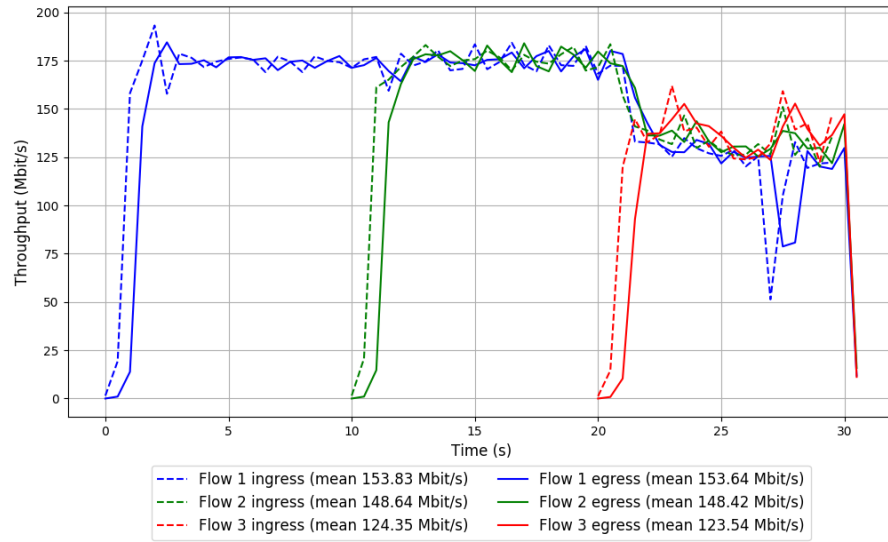
-- Flow 3:

Average throughput: 123.54 Mbit/s

95th percentile per-packet one-way delay: 124.609 ms

Loss rate: 0.54%

# Run 10: Report of TCP BBR — Data Link

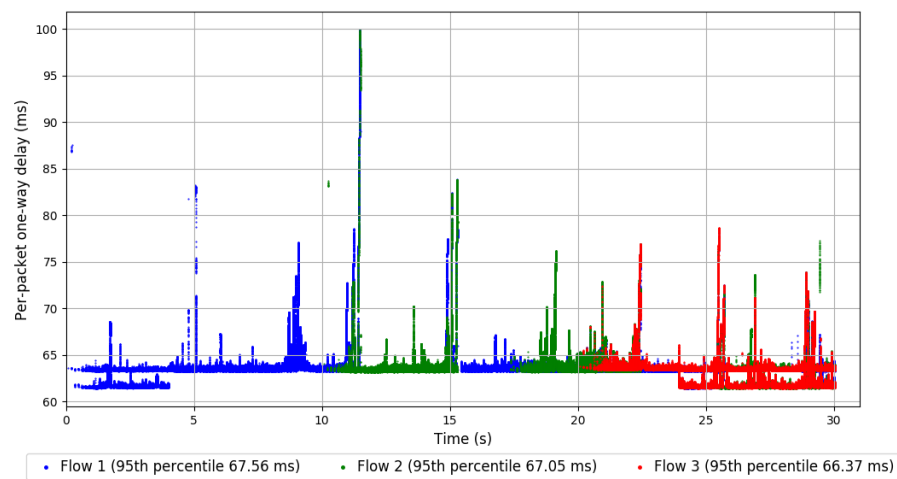
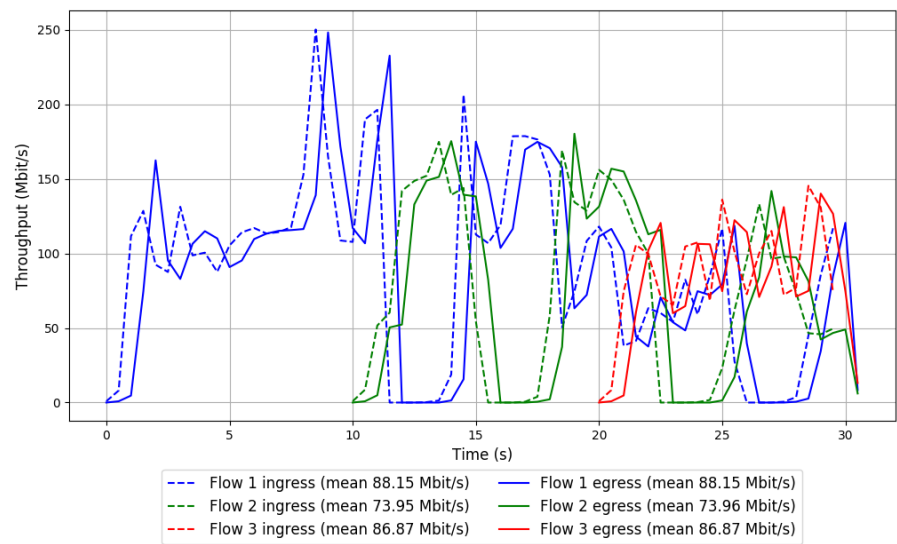


Run 1: Statistics of Copa

Start at: 2018-06-19 11:00:14  
End at: 2018-06-19 11:00:44  
Local clock offset: -0.307 ms  
Remote clock offset: -0.184 ms

# Below is generated by plot.py at 2018-06-19 14:55:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 166.27 Mbit/s  
95th percentile per-packet one-way delay: 67.201 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 88.15 Mbit/s  
95th percentile per-packet one-way delay: 67.561 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 73.96 Mbit/s  
95th percentile per-packet one-way delay: 67.049 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 86.87 Mbit/s  
95th percentile per-packet one-way delay: 66.373 ms  
Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-06-19 11:22:51

End at: 2018-06-19 11:23:21

Local clock offset: -0.312 ms

Remote clock offset: -0.21 ms

# Below is generated by plot.py at 2018-06-19 14:55:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 155.06 Mbit/s

95th percentile per-packet one-way delay: 68.076 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 79.74 Mbit/s

95th percentile per-packet one-way delay: 64.830 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 111.10 Mbit/s

95th percentile per-packet one-way delay: 70.445 ms

Loss rate: 0.00%

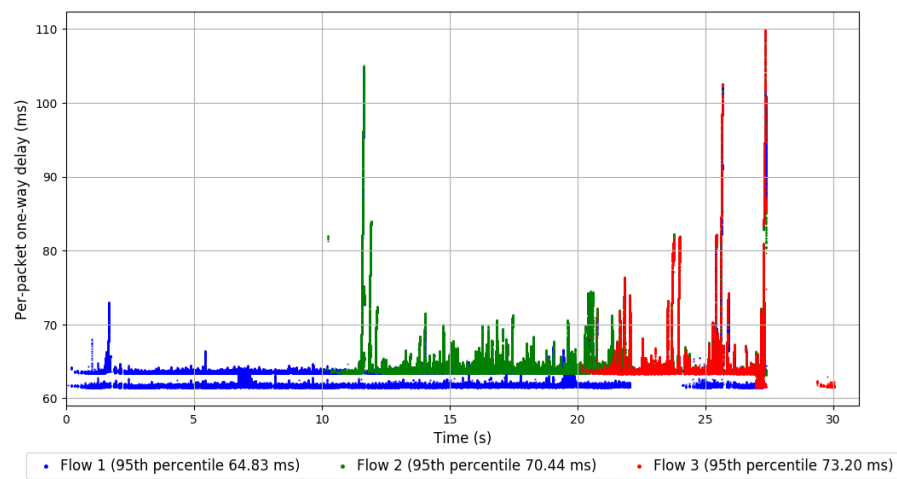
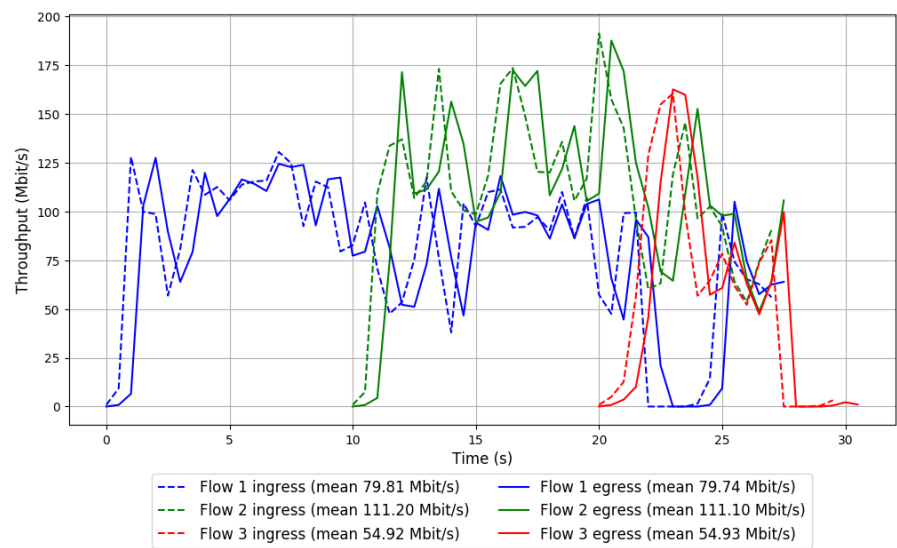
-- Flow 3:

Average throughput: 54.93 Mbit/s

95th percentile per-packet one-way delay: 73.204 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-06-19 11:45:16

End at: 2018-06-19 11:45:46

Local clock offset: -0.071 ms

Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2018-06-19 14:56:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 180.88 Mbit/s

95th percentile per-packet one-way delay: 69.987 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 100.60 Mbit/s

95th percentile per-packet one-way delay: 69.394 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 71.50 Mbit/s

95th percentile per-packet one-way delay: 70.436 ms

Loss rate: 0.02%

-- Flow 3:

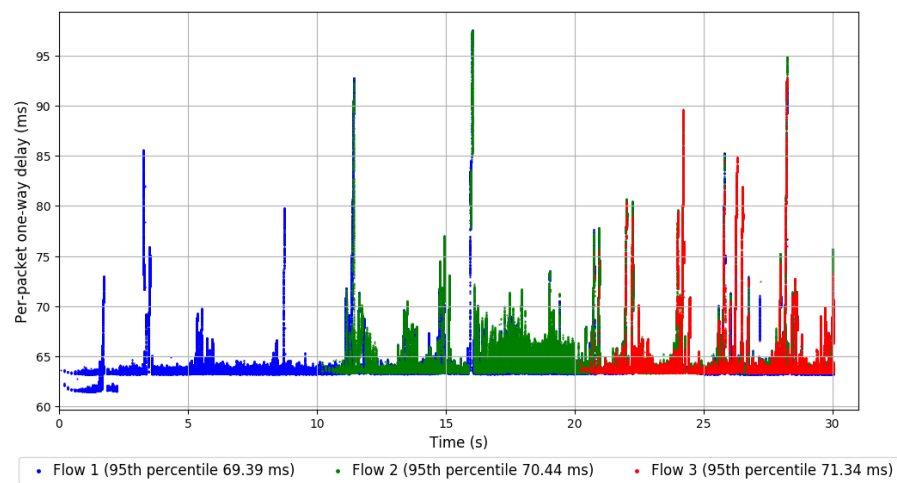
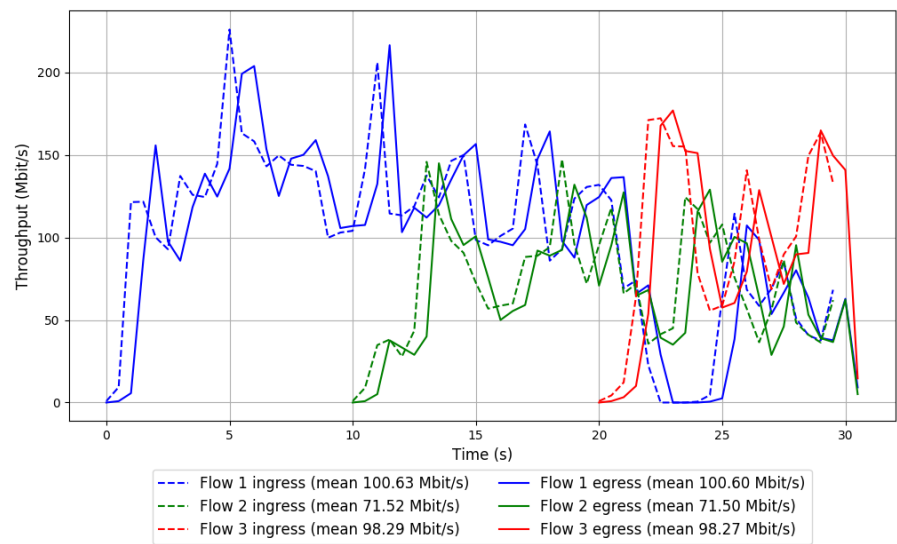
Average throughput: 98.27 Mbit/s

95th percentile per-packet one-way delay: 71.343 ms

Loss rate: 0.02%



Run 3: Report of Copa — Data Link

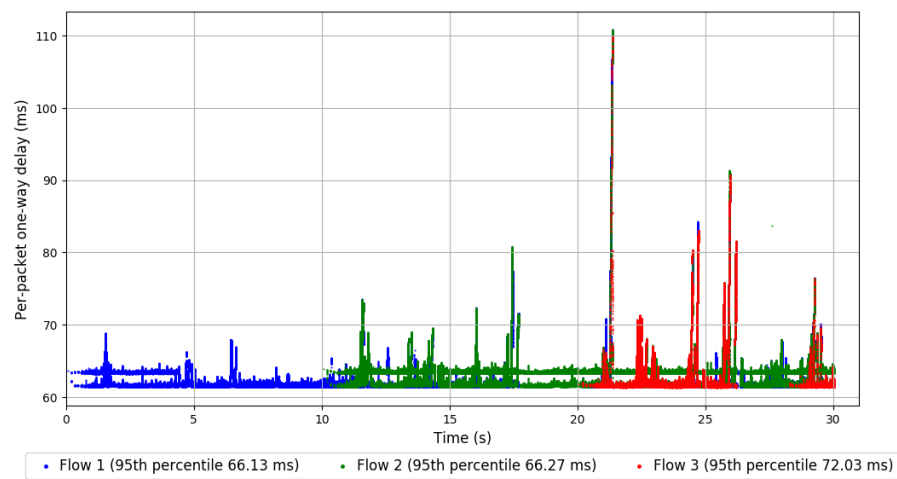
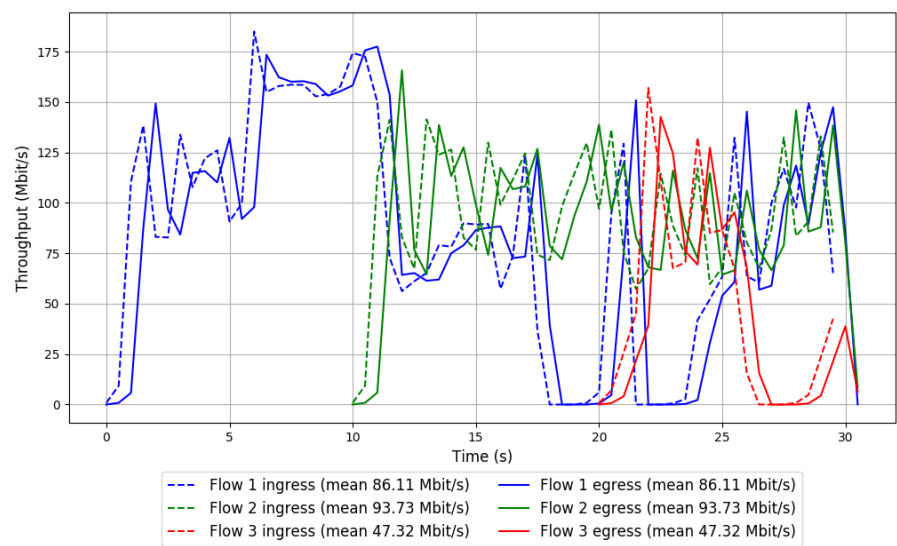


Run 4: Statistics of Copa

Start at: 2018-06-19 12:07:54  
End at: 2018-06-19 12:08:24  
Local clock offset: 0.222 ms  
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2018-06-19 14:56:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 164.20 Mbit/s  
95th percentile per-packet one-way delay: 66.581 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 86.11 Mbit/s  
95th percentile per-packet one-way delay: 66.127 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 93.73 Mbit/s  
95th percentile per-packet one-way delay: 66.269 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 47.32 Mbit/s  
95th percentile per-packet one-way delay: 72.027 ms  
Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-06-19 12:30:37

End at: 2018-06-19 12:31:07

Local clock offset: 0.004 ms

Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2018-06-19 14:56:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 138.18 Mbit/s

95th percentile per-packet one-way delay: 67.217 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 84.56 Mbit/s

95th percentile per-packet one-way delay: 65.603 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 62.23 Mbit/s

95th percentile per-packet one-way delay: 68.815 ms

Loss rate: 0.00%

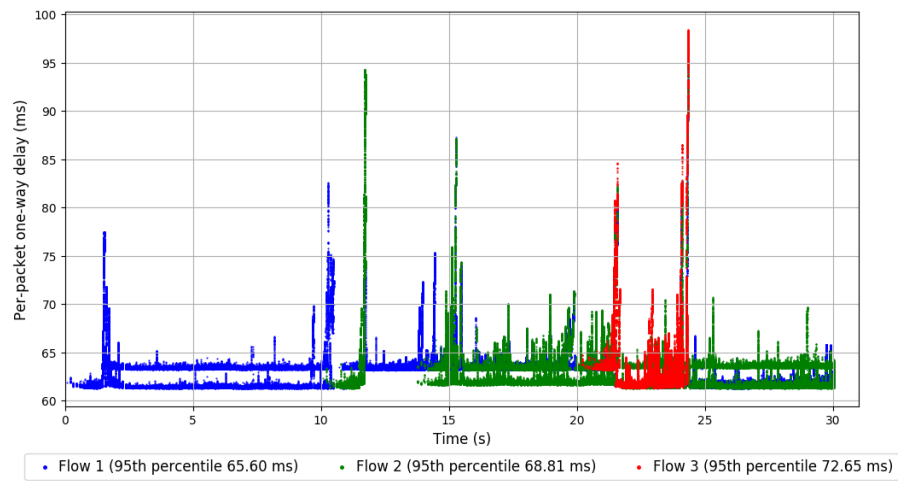
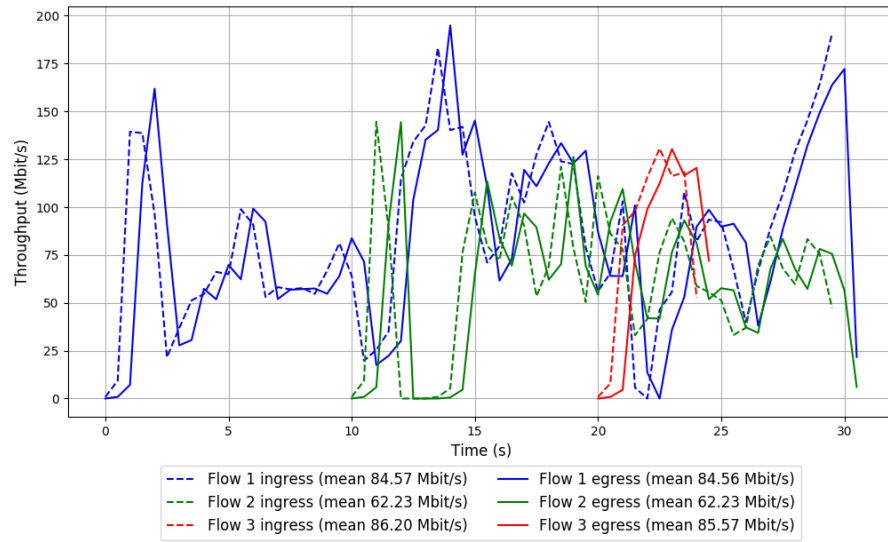
-- Flow 3:

Average throughput: 85.57 Mbit/s

95th percentile per-packet one-way delay: 72.651 ms

Loss rate: 0.01%

## Run 5: Report of Copa — Data Link

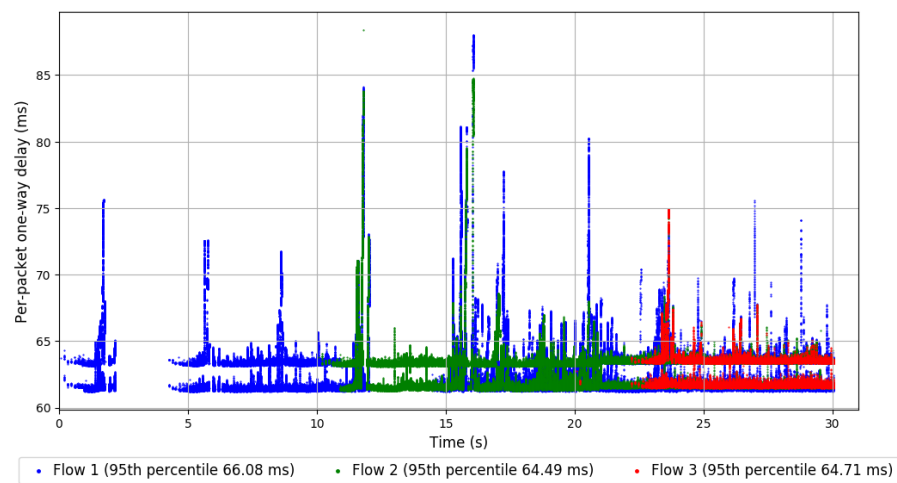
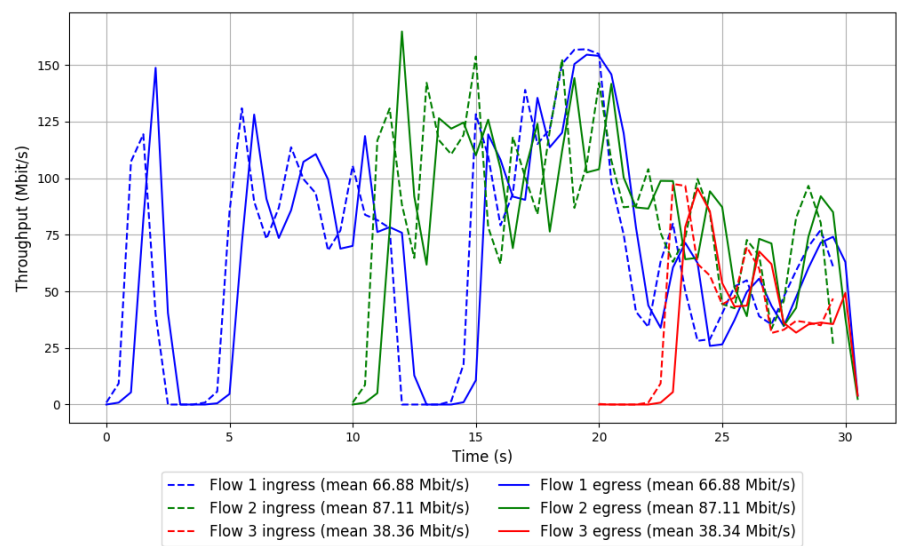


Run 6: Statistics of Copa

Start at: 2018-06-19 12:53:07  
End at: 2018-06-19 12:53:37  
Local clock offset: 0.131 ms  
Remote clock offset: -0.186 ms

# Below is generated by plot.py at 2018-06-19 14:56:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 137.63 Mbit/s  
95th percentile per-packet one-way delay: 65.293 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 66.88 Mbit/s  
95th percentile per-packet one-way delay: 66.081 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 87.11 Mbit/s  
95th percentile per-packet one-way delay: 64.491 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 38.34 Mbit/s  
95th percentile per-packet one-way delay: 64.710 ms  
Loss rate: 0.03%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-06-19 13:15:36

End at: 2018-06-19 13:16:06

Local clock offset: 0.303 ms

Remote clock offset: 0.049 ms

# Below is generated by plot.py at 2018-06-19 15:01:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 175.39 Mbit/s

95th percentile per-packet one-way delay: 66.332 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 89.60 Mbit/s

95th percentile per-packet one-way delay: 65.559 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 95.65 Mbit/s

95th percentile per-packet one-way delay: 66.631 ms

Loss rate: 0.00%

-- Flow 3:

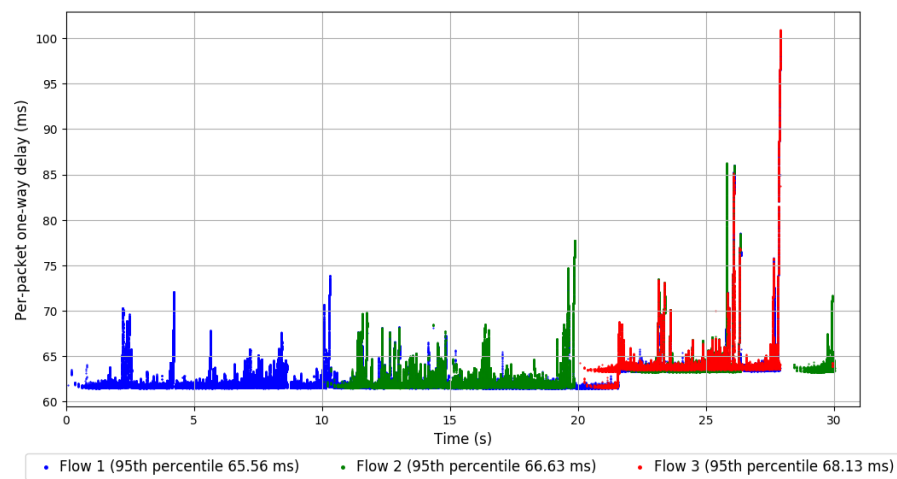
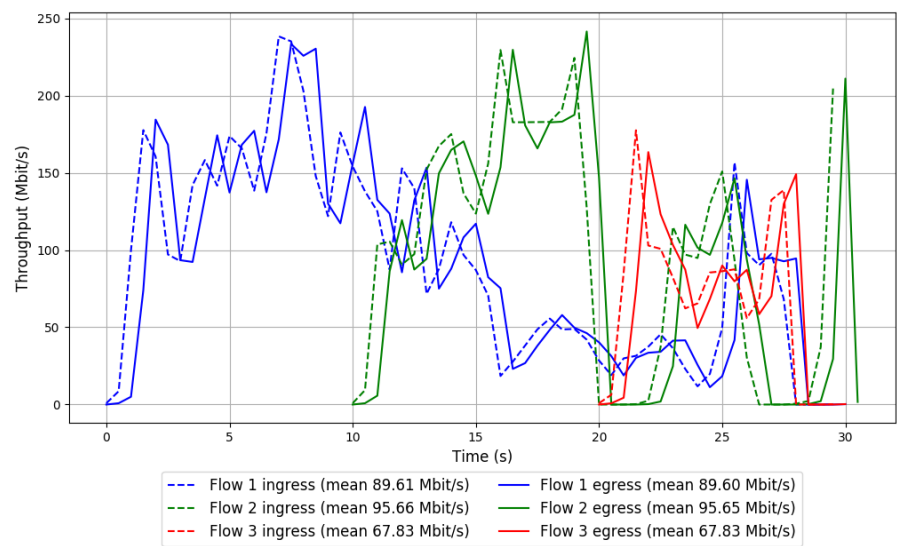
Average throughput: 67.83 Mbit/s

95th percentile per-packet one-way delay: 68.129 ms

Loss rate: 0.00%



Run 7: Report of Copa — Data Link

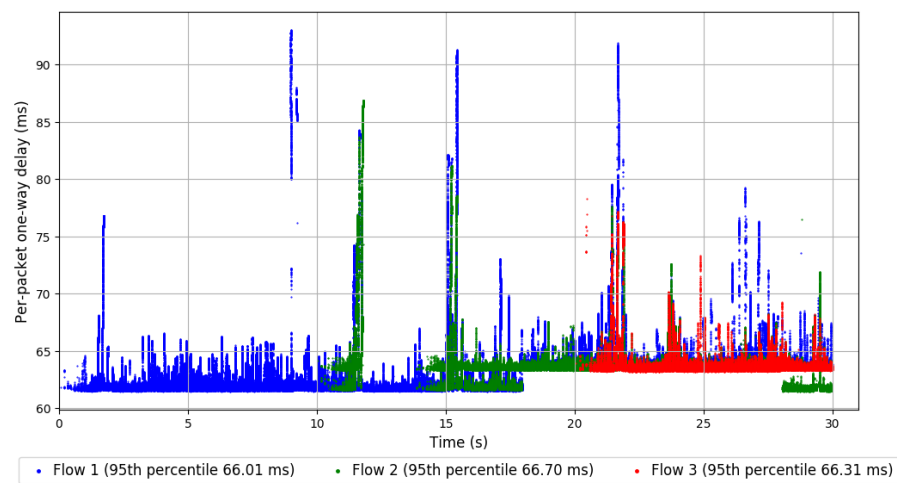
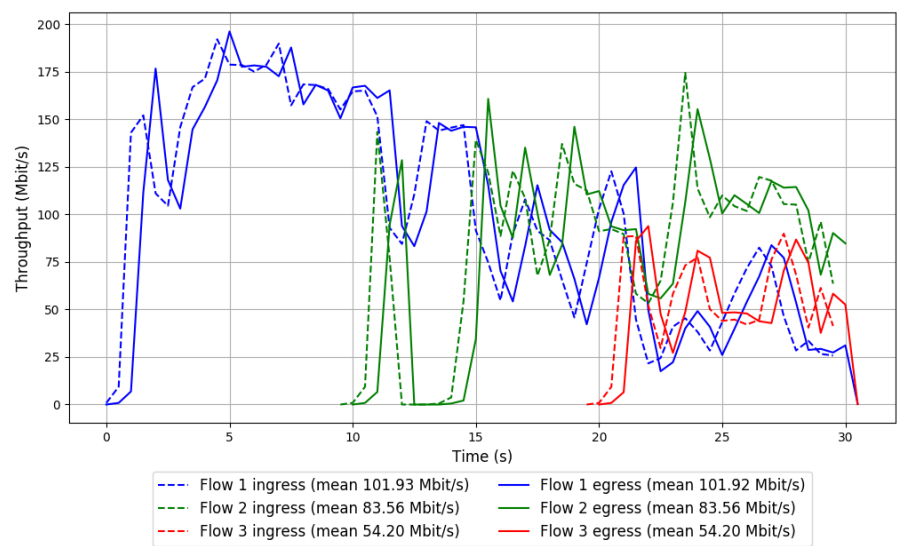


Run 8: Statistics of Copa

Start at: 2018-06-19 13:38:10  
End at: 2018-06-19 13:38:40  
Local clock offset: 0.005 ms  
Remote clock offset: -0.073 ms

```
# Below is generated by plot.py at 2018-06-19 15:01:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 175.52 Mbit/s
95th percentile per-packet one-way delay: 66.301 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 101.92 Mbit/s
95th percentile per-packet one-way delay: 66.011 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 83.56 Mbit/s
95th percentile per-packet one-way delay: 66.704 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 54.20 Mbit/s
95th percentile per-packet one-way delay: 66.309 ms
Loss rate: 0.00%
```

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-06-19 14:00:46

End at: 2018-06-19 14:01:16

Local clock offset: 0.013 ms

Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2018-06-19 15:01:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 175.87 Mbit/s

95th percentile per-packet one-way delay: 66.982 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 85.96 Mbit/s

95th percentile per-packet one-way delay: 64.504 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 92.89 Mbit/s

95th percentile per-packet one-way delay: 68.731 ms

Loss rate: 0.00%

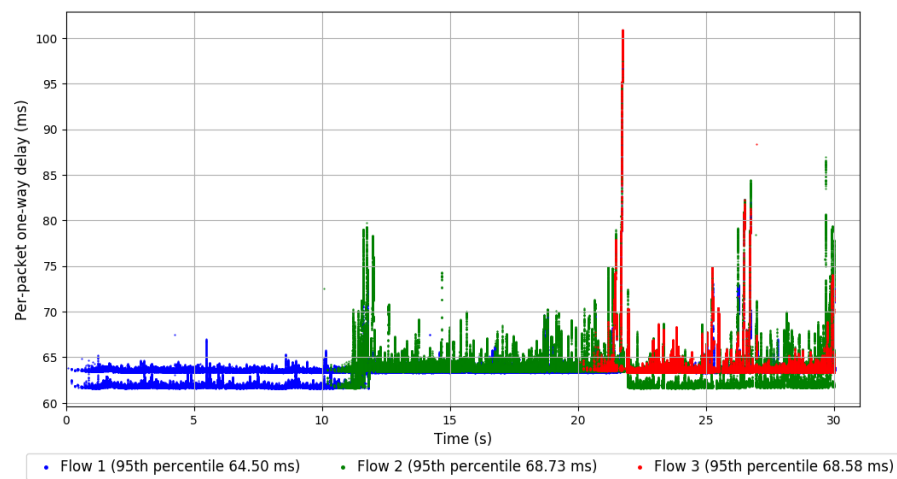
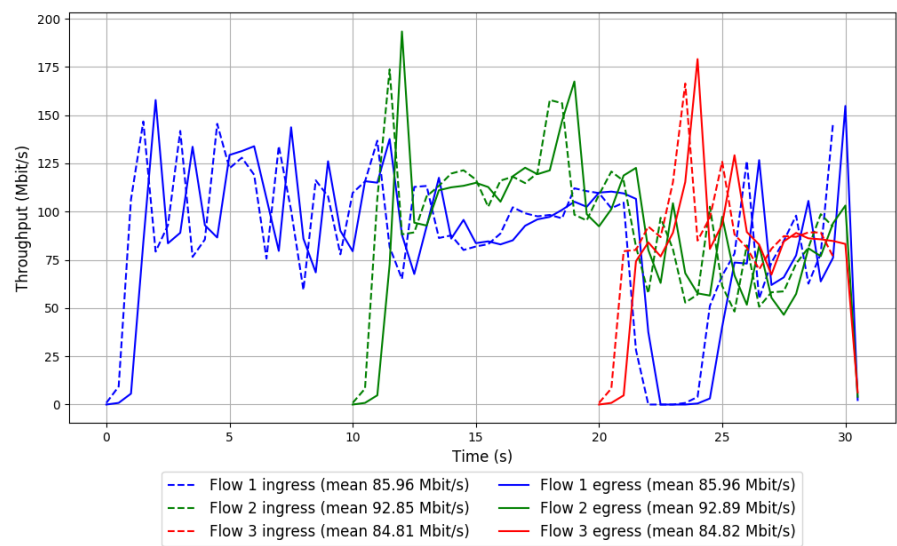
-- Flow 3:

Average throughput: 84.82 Mbit/s

95th percentile per-packet one-way delay: 68.581 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-06-19 14:23:24

End at: 2018-06-19 14:23:54

Local clock offset: -0.033 ms

Remote clock offset: 0.121 ms

# Below is generated by plot.py at 2018-06-19 15:01:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 170.15 Mbit/s

95th percentile per-packet one-way delay: 67.767 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 98.77 Mbit/s

95th percentile per-packet one-way delay: 68.347 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 77.06 Mbit/s

95th percentile per-packet one-way delay: 66.700 ms

Loss rate: 0.02%

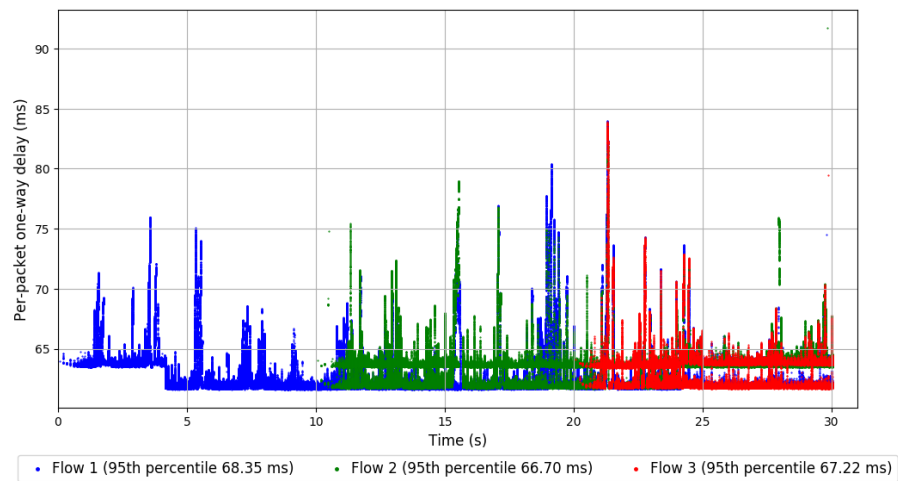
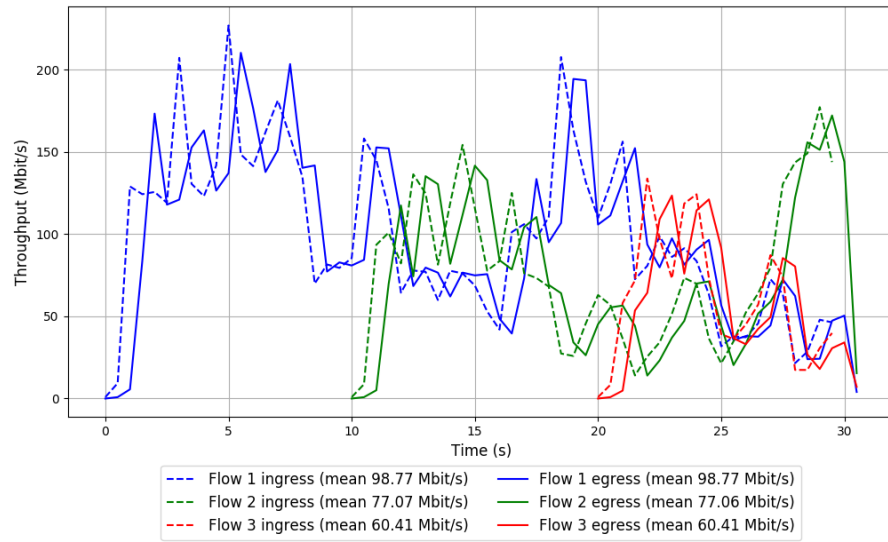
-- Flow 3:

Average throughput: 60.41 Mbit/s

95th percentile per-packet one-way delay: 67.224 ms

Loss rate: 0.02%

## Run 10: Report of Copa — Data Link



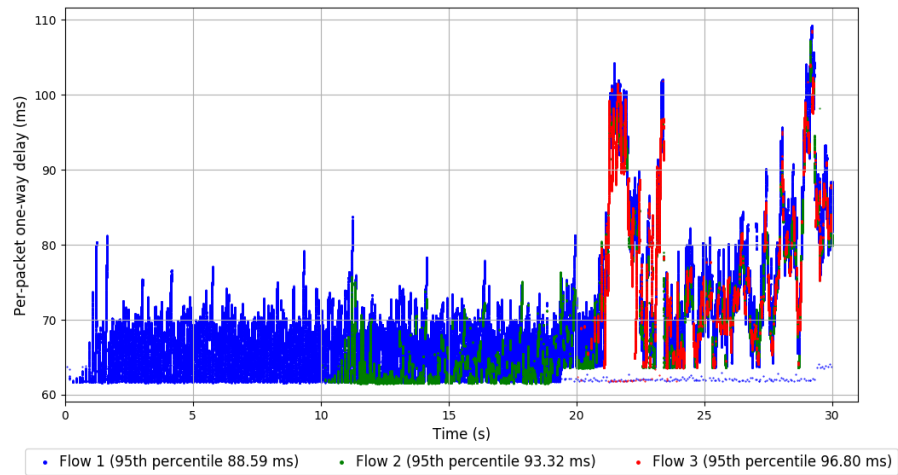
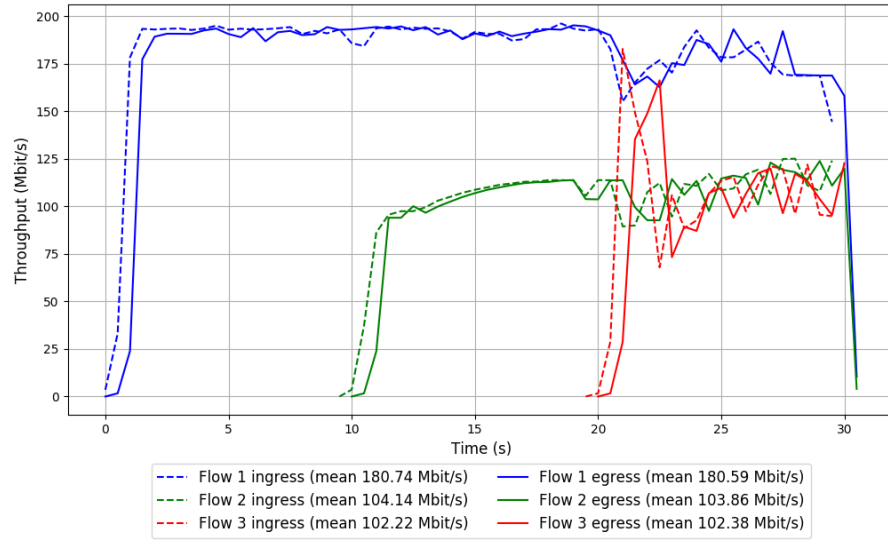
Run 1: Statistics of TCP Cubic

Start at: 2018-06-19 11:01:39  
End at: 2018-06-19 11:02:09  
Local clock offset: -0.257 ms  
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2018-06-19 15:01:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 283.73 Mbit/s  
95th percentile per-packet one-way delay: 92.843 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 180.59 Mbit/s  
95th percentile per-packet one-way delay: 88.593 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 103.86 Mbit/s  
95th percentile per-packet one-way delay: 93.319 ms  
Loss rate: 0.27%  
-- Flow 3:  
Average throughput: 102.38 Mbit/s  
95th percentile per-packet one-way delay: 96.800 ms  
Loss rate: 0.05%



# Run 1: Report of TCP Cubic — Data Link

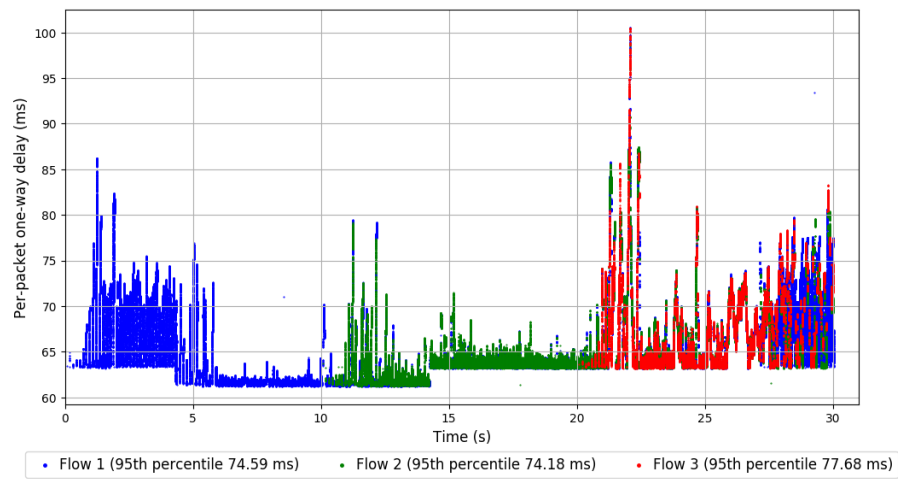
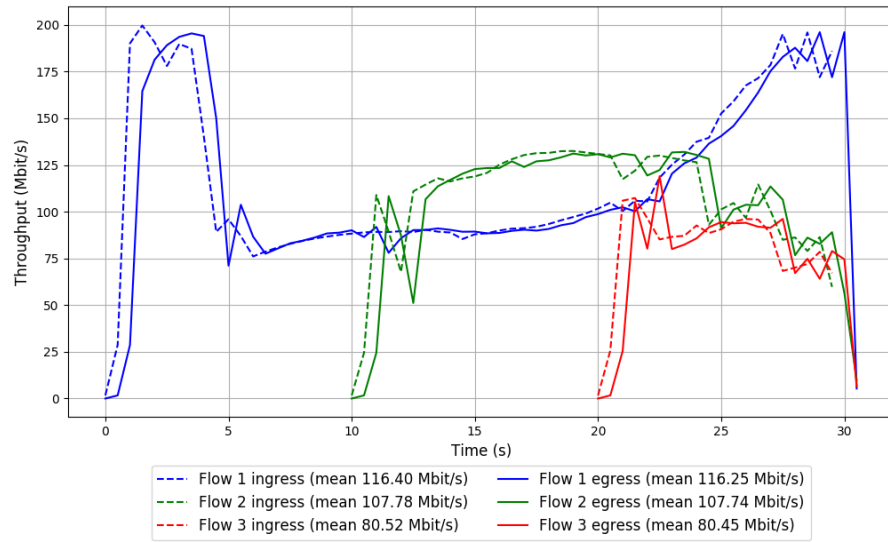


Run 2: Statistics of TCP Cubic

Start at: 2018-06-19 11:24:14  
End at: 2018-06-19 11:24:44  
Local clock offset: -0.324 ms  
Remote clock offset: -0.443 ms

# Below is generated by plot.py at 2018-06-19 15:01:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 214.67 Mbit/s  
95th percentile per-packet one-way delay: 75.061 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 116.25 Mbit/s  
95th percentile per-packet one-way delay: 74.593 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 107.74 Mbit/s  
95th percentile per-packet one-way delay: 74.180 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 80.45 Mbit/s  
95th percentile per-packet one-way delay: 77.681 ms  
Loss rate: 0.00%

## Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-06-19 11:46:41

End at: 2018-06-19 11:47:11

Local clock offset: -0.023 ms

Remote clock offset: 0.124 ms

# Below is generated by plot.py at 2018-06-19 15:01:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 271.08 Mbit/s

95th percentile per-packet one-way delay: 74.101 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 182.48 Mbit/s

95th percentile per-packet one-way delay: 74.413 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 131.08 Mbit/s

95th percentile per-packet one-way delay: 73.094 ms

Loss rate: 0.00%

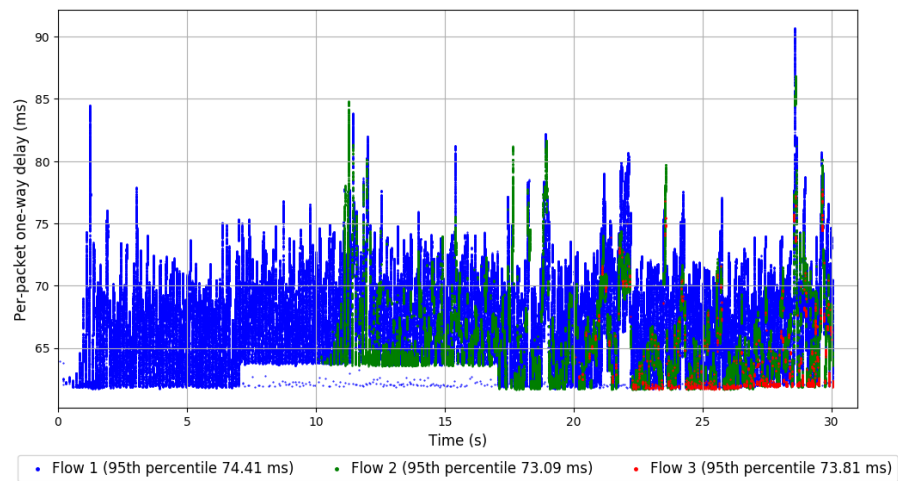
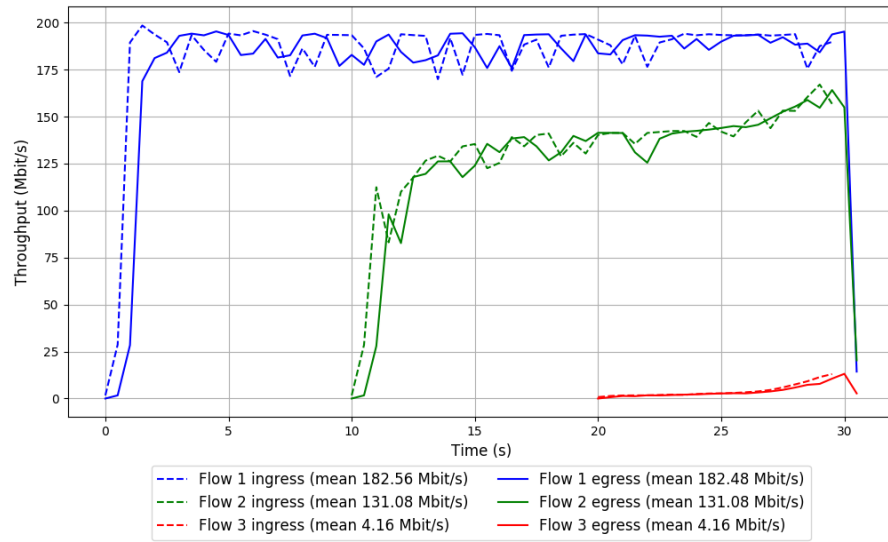
-- Flow 3:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 73.812 ms

Loss rate: 0.06%

### Run 3: Report of TCP Cubic — Data Link

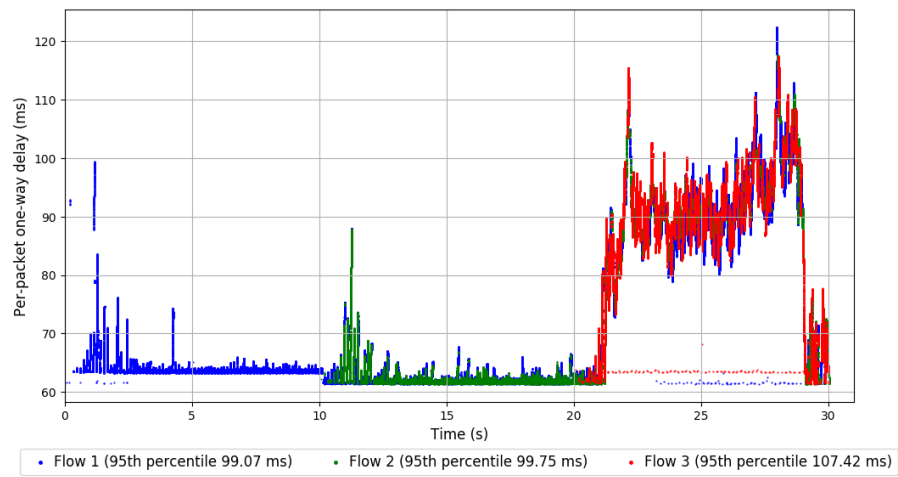
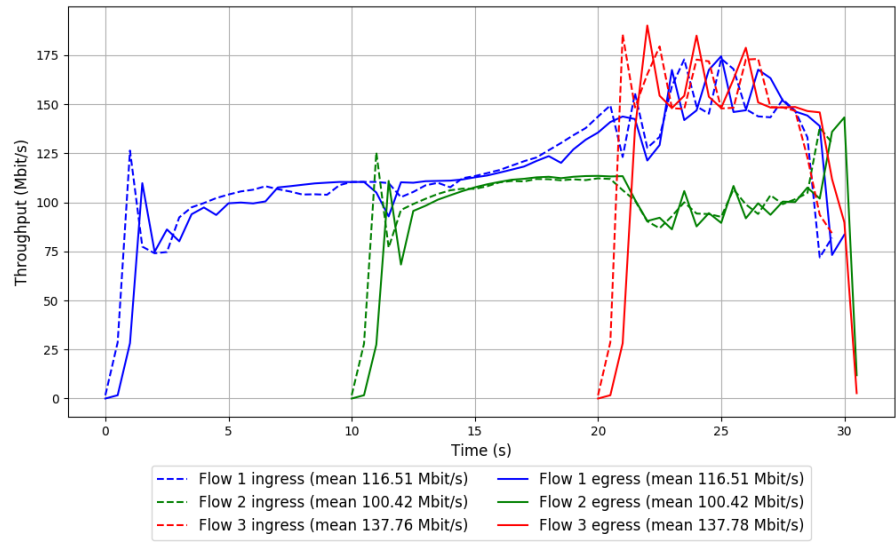


Run 4: Statistics of TCP Cubic

Start at: 2018-06-19 12:09:18  
End at: 2018-06-19 12:09:48  
Local clock offset: 0.197 ms  
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2018-06-19 15:01:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 228.86 Mbit/s  
95th percentile per-packet one-way delay: 101.360 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 116.51 Mbit/s  
95th percentile per-packet one-way delay: 99.071 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 100.42 Mbit/s  
95th percentile per-packet one-way delay: 99.747 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 137.78 Mbit/s  
95th percentile per-packet one-way delay: 107.419 ms  
Loss rate: 0.00%

#### Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-06-19 12:31:58

End at: 2018-06-19 12:32:28

Local clock offset: 0.011 ms

Remote clock offset: 0.031 ms

# Below is generated by plot.py at 2018-06-19 15:04:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 240.70 Mbit/s

95th percentile per-packet one-way delay: 85.686 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 102.30 Mbit/s

95th percentile per-packet one-way delay: 83.829 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 177.59 Mbit/s

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

Loss rate: 0.03%

-- Flow 3:

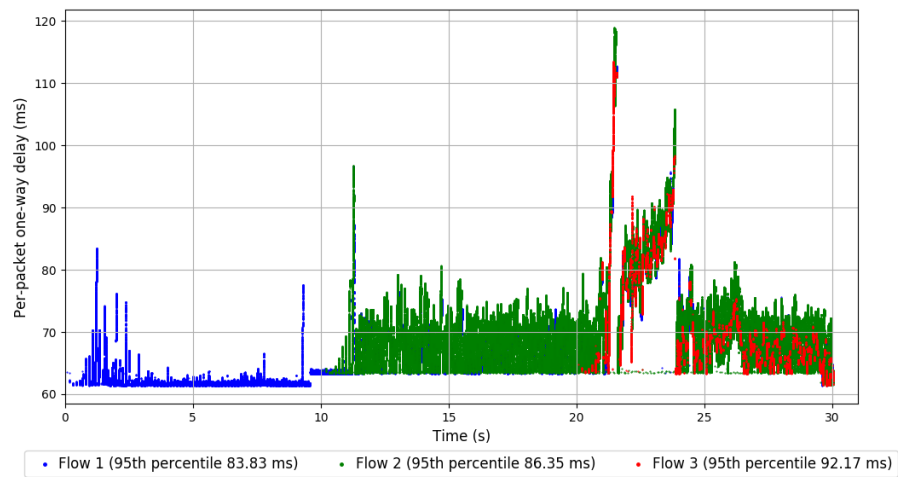
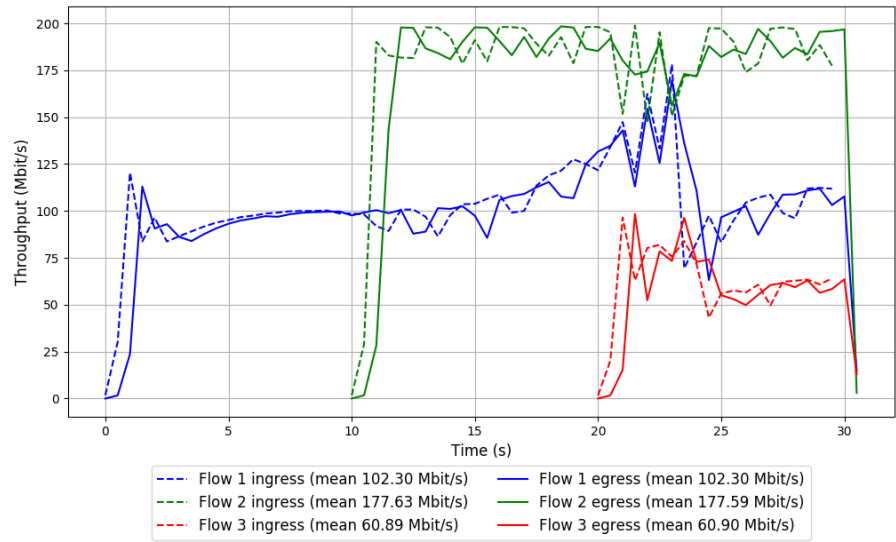
Average throughput: 60.90 Mbit/s

95th percentile per-packet one-way delay: 92.166 ms

Loss rate: 0.01%



# Run 5: Report of TCP Cubic — Data Link

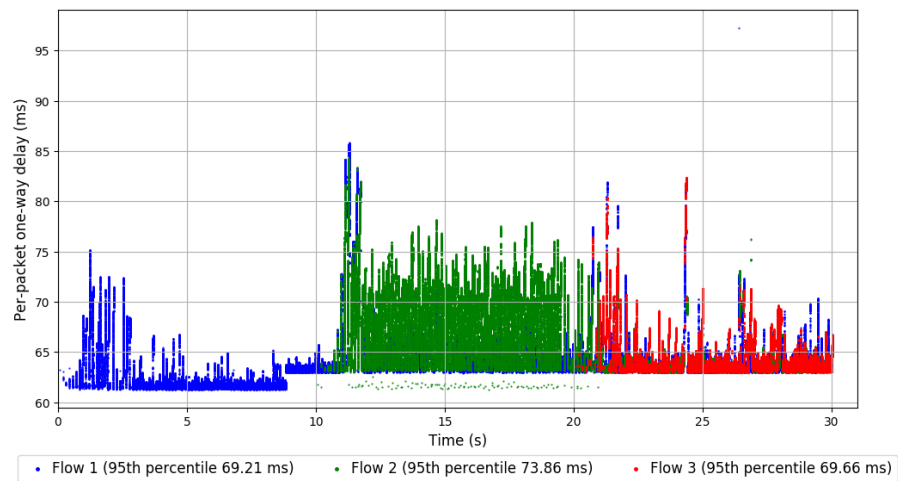
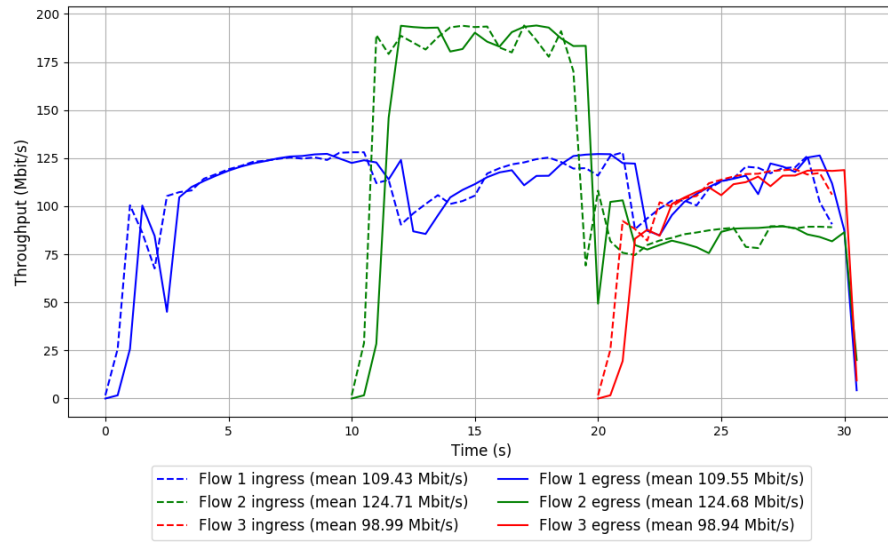


Run 6: Statistics of TCP Cubic

Start at: 2018-06-19 12:54:29  
End at: 2018-06-19 12:54:59  
Local clock offset: 0.134 ms  
Remote clock offset: -0.405 ms

# Below is generated by plot.py at 2018-06-19 15:04:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 225.34 Mbit/s  
95th percentile per-packet one-way delay: 72.764 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 109.55 Mbit/s  
95th percentile per-packet one-way delay: 69.214 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 124.68 Mbit/s  
95th percentile per-packet one-way delay: 73.857 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 98.94 Mbit/s  
95th percentile per-packet one-way delay: 69.661 ms  
Loss rate: 0.05%

## Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-06-19 13:17:02

End at: 2018-06-19 13:17:32

Local clock offset: 0.316 ms

Remote clock offset: 0.171 ms

# Below is generated by plot.py at 2018-06-19 15:05:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 234.69 Mbit/s

95th percentile per-packet one-way delay: 92.957 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 177.61 Mbit/s

95th percentile per-packet one-way delay: 88.937 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.25 Mbit/s

95th percentile per-packet one-way delay: 106.738 ms

Loss rate: 0.73%

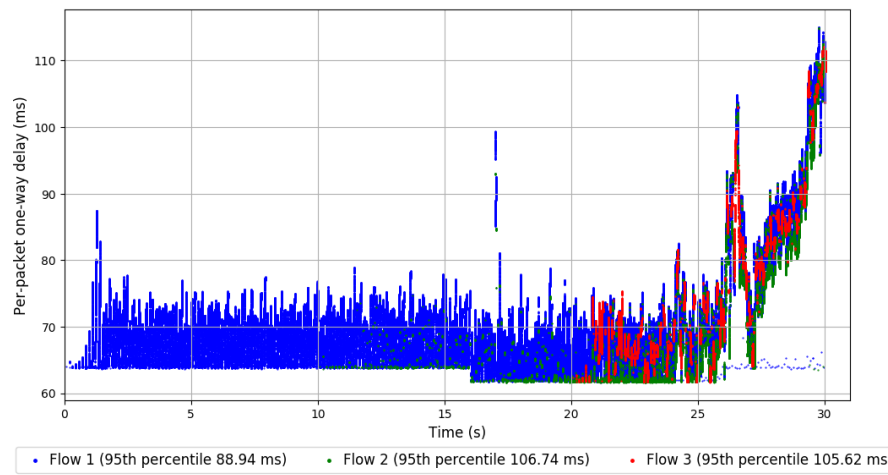
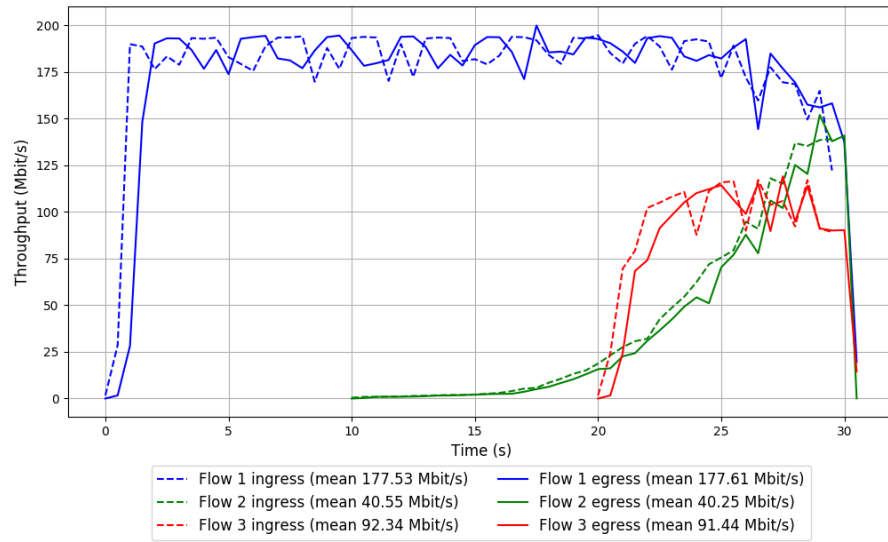
-- Flow 3:

Average throughput: 91.44 Mbit/s

95th percentile per-packet one-way delay: 105.625 ms

Loss rate: 0.79%

## Run 7: Report of TCP Cubic — Data Link

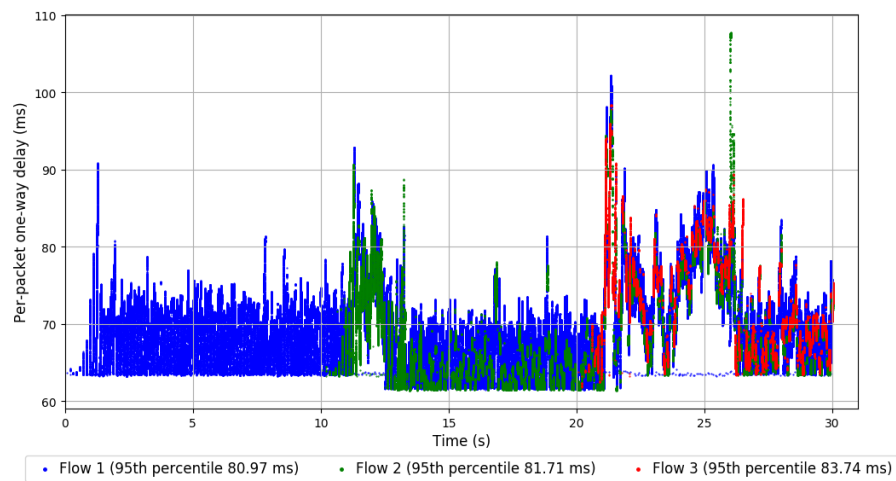
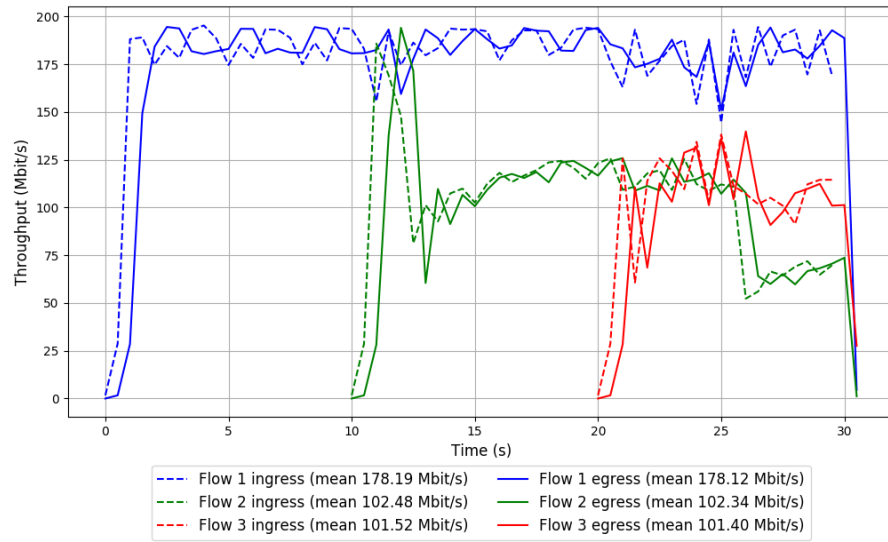


Run 8: Statistics of TCP Cubic

Start at: 2018-06-19 13:39:36  
End at: 2018-06-19 13:40:06  
Local clock offset: 0.026 ms  
Remote clock offset: -0.255 ms

# Below is generated by plot.py at 2018-06-19 15:06:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 279.72 Mbit/s  
95th percentile per-packet one-way delay: 81.907 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 178.12 Mbit/s  
95th percentile per-packet one-way delay: 80.973 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 102.34 Mbit/s  
95th percentile per-packet one-way delay: 81.706 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 101.40 Mbit/s  
95th percentile per-packet one-way delay: 83.744 ms  
Loss rate: 0.01%

## Run 8: Report of TCP Cubic — Data Link



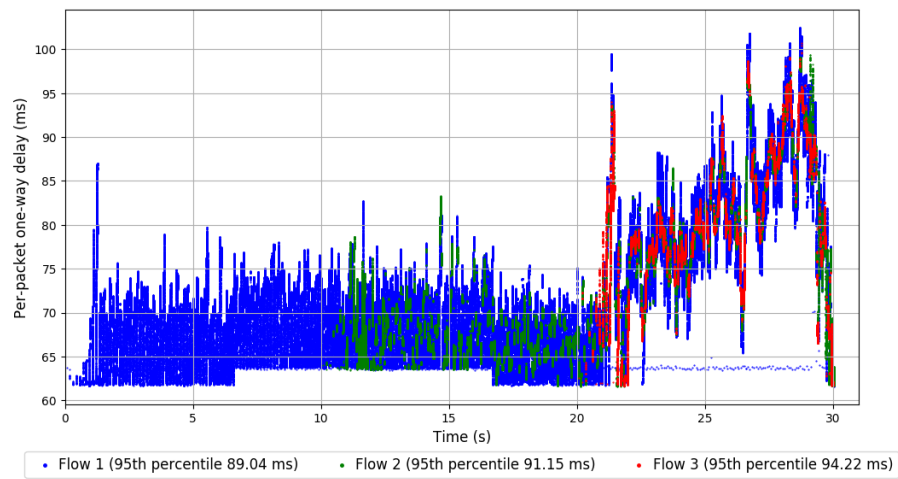
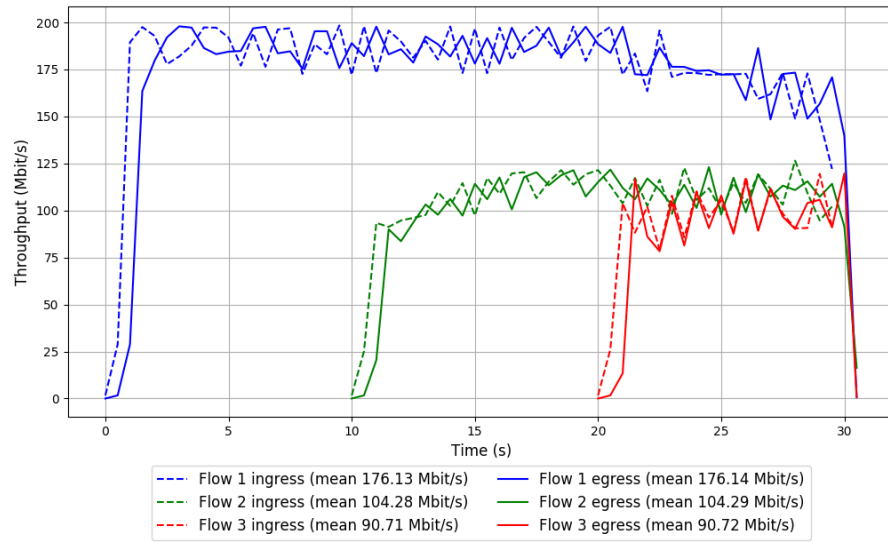
Run 9: Statistics of TCP Cubic

Start at: 2018-06-19 14:02:11  
End at: 2018-06-19 14:02:41  
Local clock offset: -0.038 ms  
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2018-06-19 15:06:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 275.66 Mbit/s  
95th percentile per-packet one-way delay: 90.480 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 176.14 Mbit/s  
95th percentile per-packet one-way delay: 89.040 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 104.29 Mbit/s  
95th percentile per-packet one-way delay: 91.152 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 90.72 Mbit/s  
95th percentile per-packet one-way delay: 94.218 ms  
Loss rate: 0.00%



# Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-06-19 14:24:49

End at: 2018-06-19 14:25:19

Local clock offset: -0.044 ms

Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2018-06-19 15:06:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 180.10 Mbit/s

95th percentile per-packet one-way delay: 76.845 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 121.39 Mbit/s

95th percentile per-packet one-way delay: 73.400 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.48 Mbit/s

95th percentile per-packet one-way delay: 73.764 ms

Loss rate: 0.07%

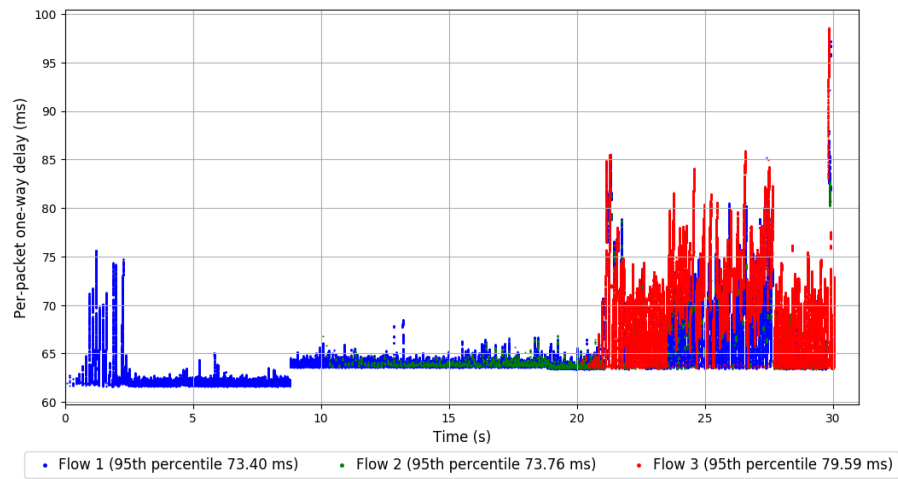
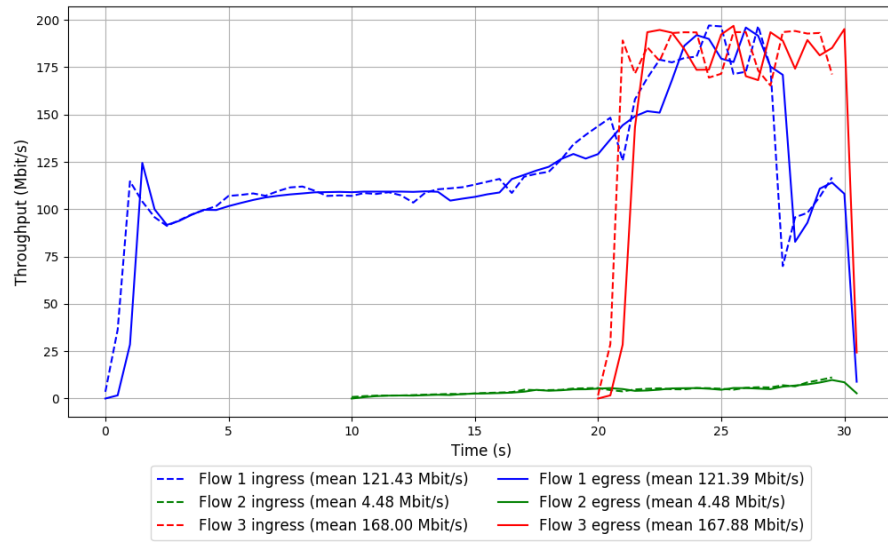
-- Flow 3:

Average throughput: 167.88 Mbit/s

95th percentile per-packet one-way delay: 79.588 ms

Loss rate: 0.00%

# Run 10: Report of TCP Cubic — Data Link

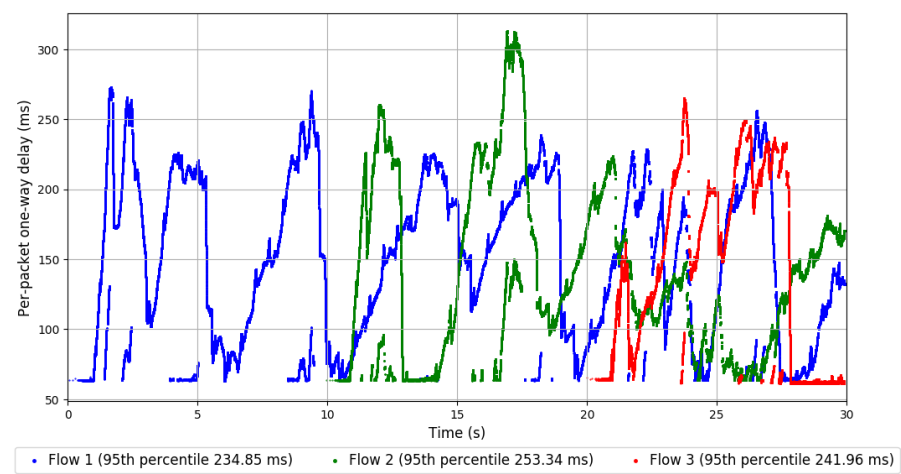
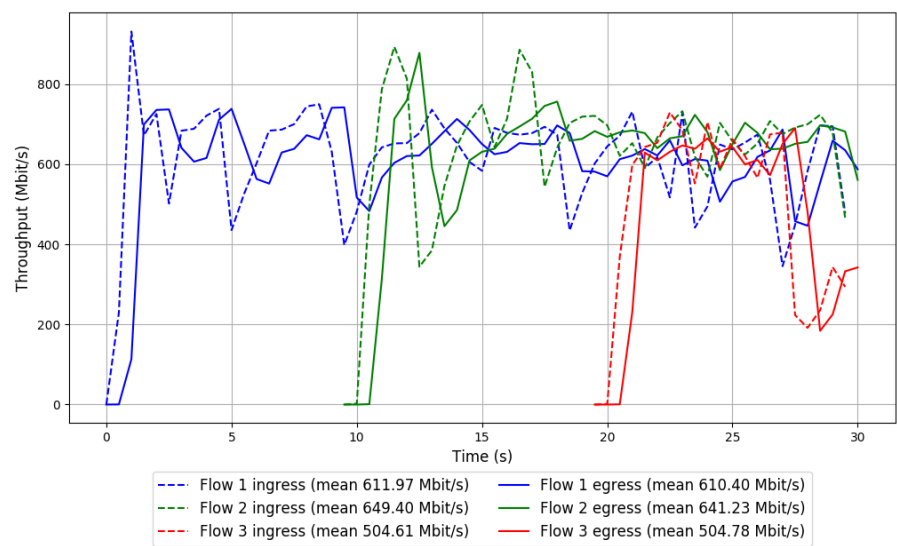


Run 1: Statistics of FillP

Start at: 2018-06-19 10:50:26  
End at: 2018-06-19 10:50:56  
Local clock offset: -0.273 ms  
Remote clock offset: -0.137 ms

# Below is generated by plot.py at 2018-06-19 15:29:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1206.52 Mbit/s  
95th percentile per-packet one-way delay: 238.559 ms  
Loss rate: 0.57%  
-- Flow 1:  
Average throughput: 610.40 Mbit/s  
95th percentile per-packet one-way delay: 234.851 ms  
Loss rate: 0.25%  
-- Flow 2:  
Average throughput: 641.23 Mbit/s  
95th percentile per-packet one-way delay: 253.336 ms  
Loss rate: 1.25%  
-- Flow 3:  
Average throughput: 504.78 Mbit/s  
95th percentile per-packet one-way delay: 241.963 ms  
Loss rate: 0.00%

Run 1: Report of FillP — Data Link

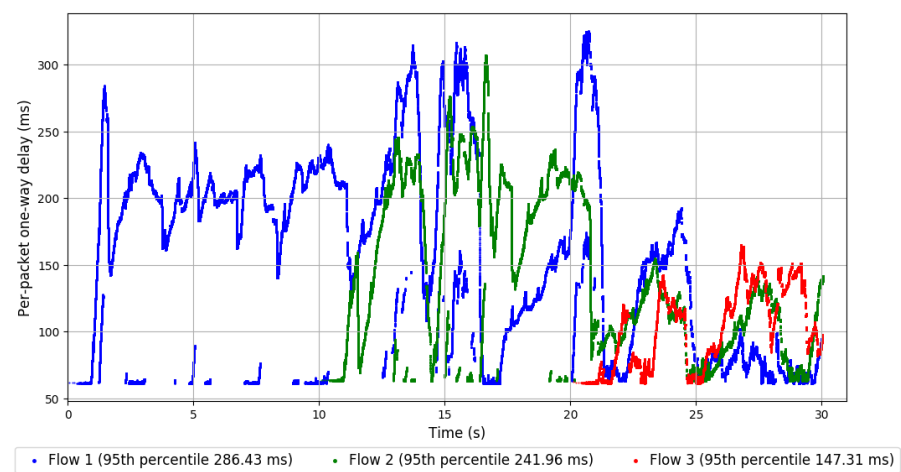
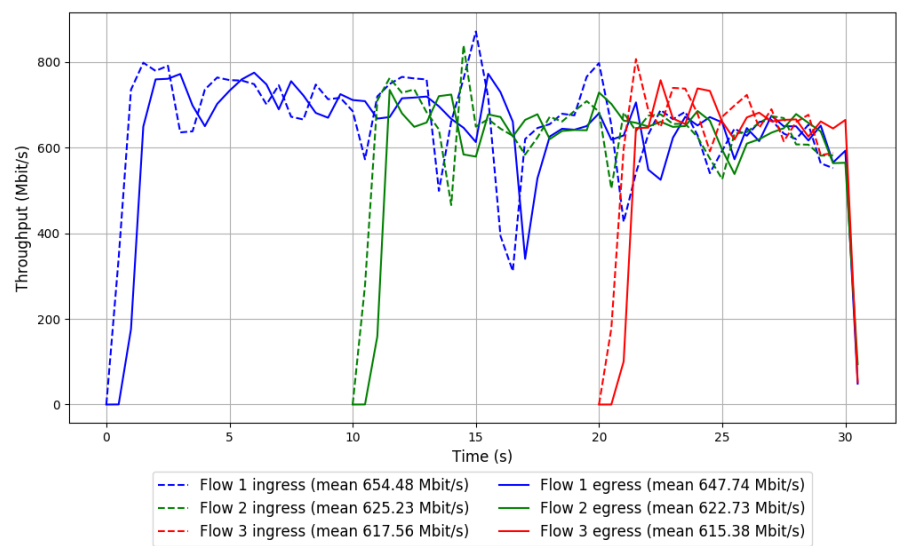


Run 2: Statistics of FillP

Start at: 2018-06-19 11:12:51  
End at: 2018-06-19 11:13:21  
Local clock offset: -0.26 ms  
Remote clock offset: -0.202 ms

# Below is generated by plot.py at 2018-06-19 15:31:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1265.55 Mbit/s  
95th percentile per-packet one-way delay: 263.551 ms  
Loss rate: 0.50%  
-- Flow 1:  
Average throughput: 647.74 Mbit/s  
95th percentile per-packet one-way delay: 286.425 ms  
Loss rate: 0.92%  
-- Flow 2:  
Average throughput: 622.73 Mbit/s  
95th percentile per-packet one-way delay: 241.957 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 615.38 Mbit/s  
95th percentile per-packet one-way delay: 147.307 ms  
Loss rate: 0.00%

Run 2: Report of FillP — Data Link



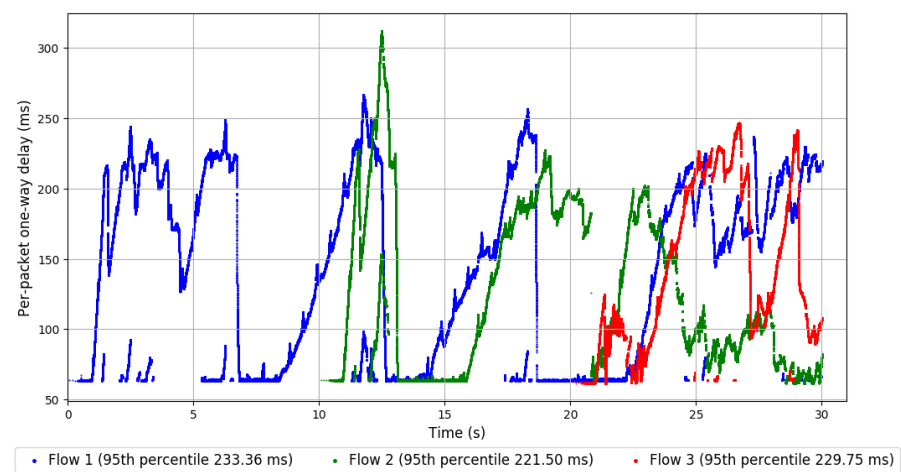
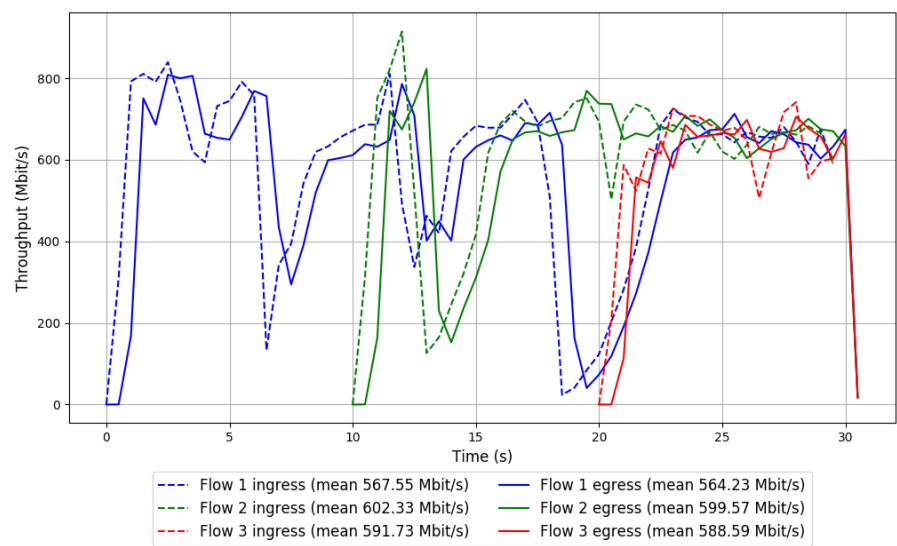
Run 3: Statistics of FillP

Start at: 2018-06-19 11:35:25  
End at: 2018-06-19 11:35:55  
Local clock offset: -0.334 ms  
Remote clock offset: -0.202 ms

# Below is generated by plot.py at 2018-06-19 15:31:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1158.08 Mbit/s  
95th percentile per-packet one-way delay: 230.900 ms  
Loss rate: 0.53%  
-- Flow 1:  
Average throughput: 564.23 Mbit/s  
95th percentile per-packet one-way delay: 233.360 ms  
Loss rate: 0.58%  
-- Flow 2:  
Average throughput: 599.57 Mbit/s  
95th percentile per-packet one-way delay: 221.496 ms  
Loss rate: 0.46%  
-- Flow 3:  
Average throughput: 588.59 Mbit/s  
95th percentile per-packet one-way delay: 229.746 ms  
Loss rate: 0.51%



Run 3: Report of FillP — Data Link

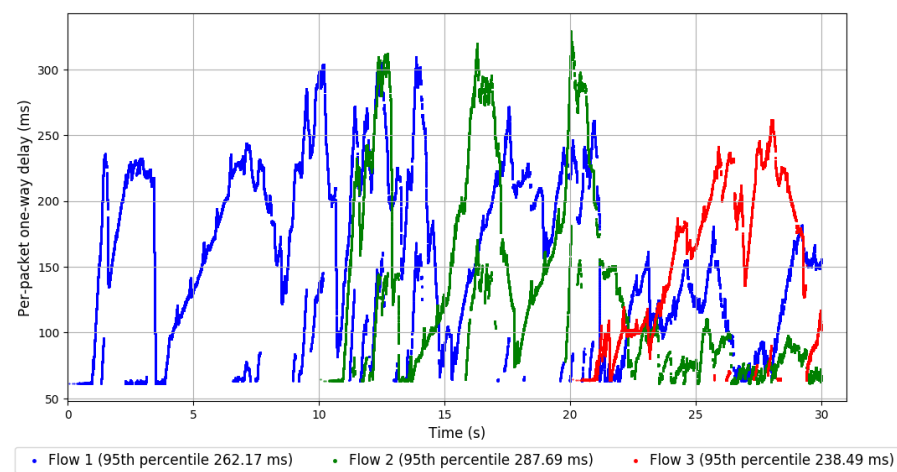
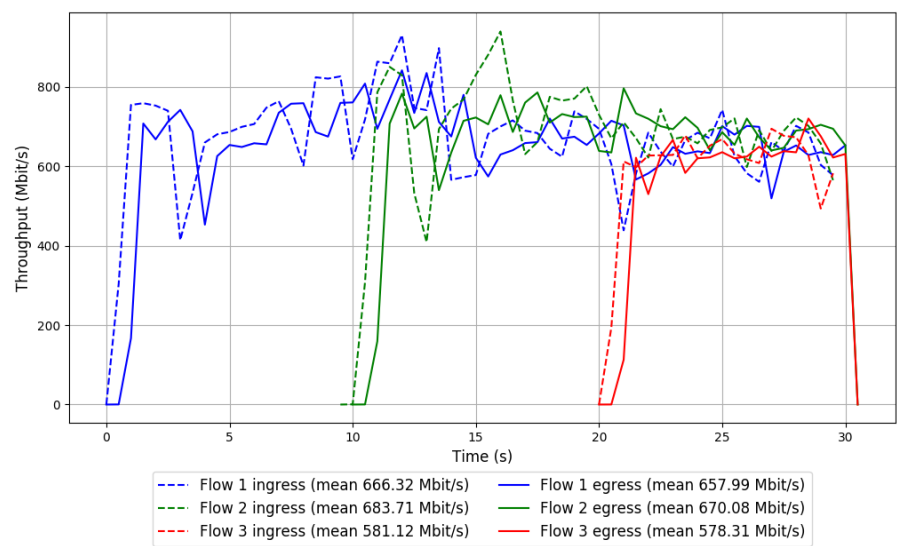


Run 4: Statistics of FillP

Start at: 2018-06-19 11:57:52  
End at: 2018-06-19 11:58:22  
Local clock offset: 0.099 ms  
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2018-06-19 15:35:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1295.47 Mbit/s  
95th percentile per-packet one-way delay: 273.540 ms  
Loss rate: 1.39%  
-- Flow 1:  
Average throughput: 657.99 Mbit/s  
95th percentile per-packet one-way delay: 262.172 ms  
Loss rate: 1.24%  
-- Flow 2:  
Average throughput: 670.08 Mbit/s  
95th percentile per-packet one-way delay: 287.686 ms  
Loss rate: 1.99%  
-- Flow 3:  
Average throughput: 578.31 Mbit/s  
95th percentile per-packet one-way delay: 238.485 ms  
Loss rate: 0.47%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-06-19 12:20:39

End at: 2018-06-19 12:21:09

Local clock offset: 0.073 ms

Remote clock offset: 0.366 ms

# Below is generated by plot.py at 2018-06-19 15:35:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1192.32 Mbit/s

95th percentile per-packet one-way delay: 270.188 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 629.37 Mbit/s

95th percentile per-packet one-way delay: 254.315 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 548.90 Mbit/s

95th percentile per-packet one-way delay: 289.306 ms

Loss rate: 1.13%

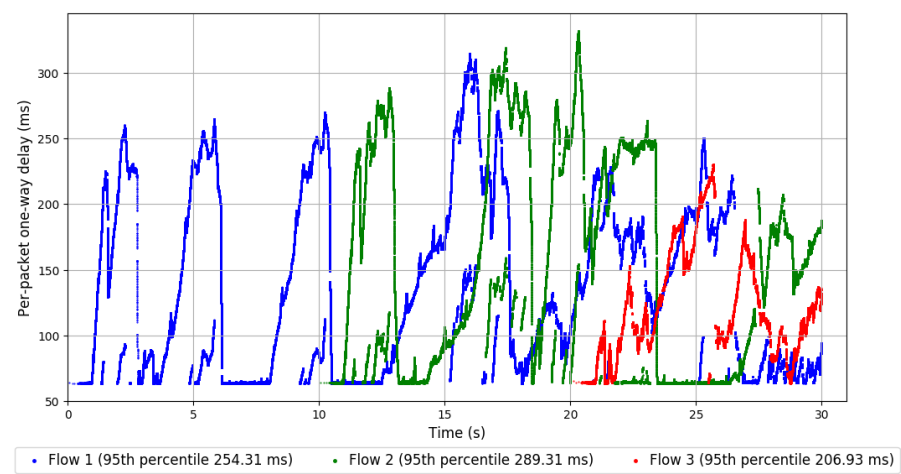
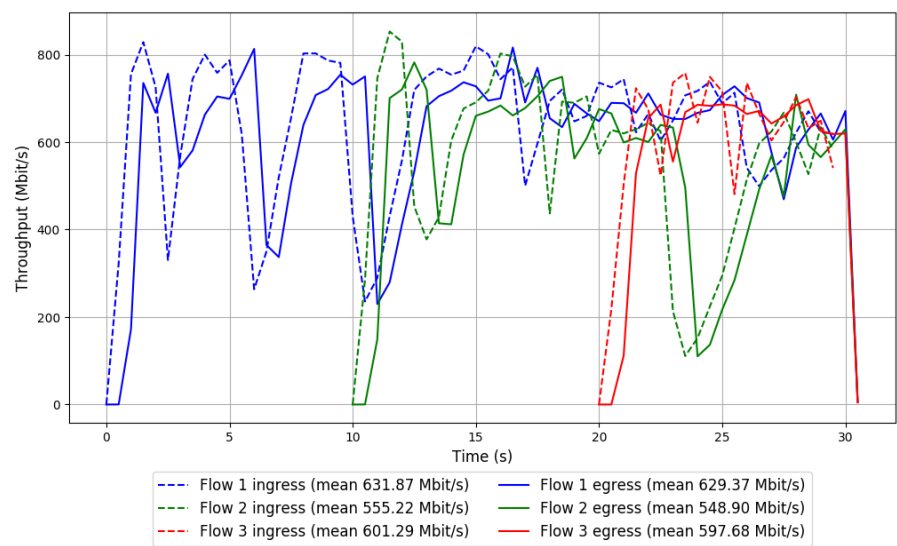
-- Flow 3:

Average throughput: 597.68 Mbit/s

95th percentile per-packet one-way delay: 206.934 ms

Loss rate: 0.60%

Run 5: Report of FillP — Data Link

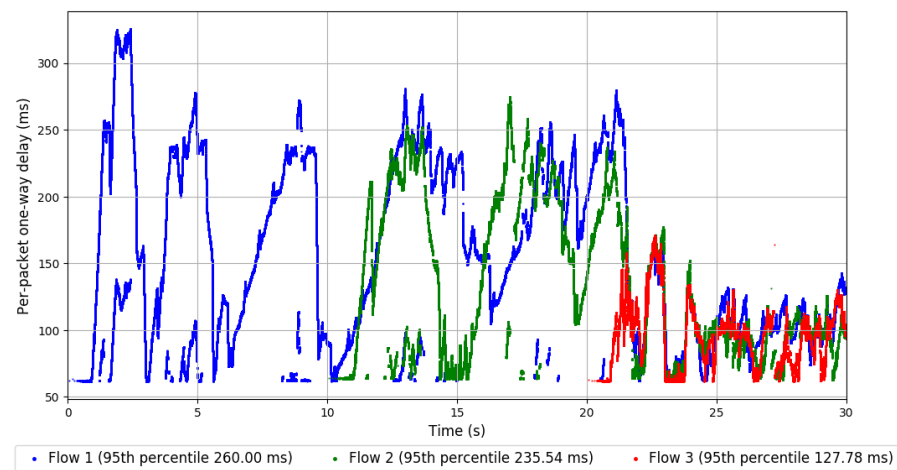
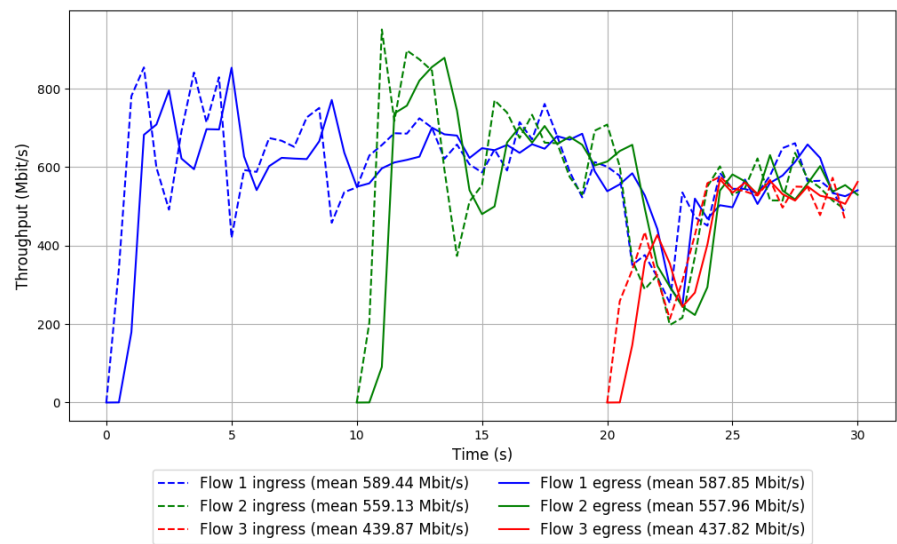


Run 6: Statistics of FillP

Start at: 2018-06-19 12:43:10  
End at: 2018-06-19 12:43:40  
Local clock offset: -0.061 ms  
Remote clock offset: 0.11 ms

# Below is generated by plot.py at 2018-06-19 15:35:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1104.28 Mbit/s  
95th percentile per-packet one-way delay: 249.261 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 587.85 Mbit/s  
95th percentile per-packet one-way delay: 260.001 ms  
Loss rate: 0.25%  
-- Flow 2:  
Average throughput: 557.96 Mbit/s  
95th percentile per-packet one-way delay: 235.542 ms  
Loss rate: 0.20%  
-- Flow 3:  
Average throughput: 437.82 Mbit/s  
95th percentile per-packet one-way delay: 127.778 ms  
Loss rate: 0.45%

Run 6: Report of FillP — Data Link



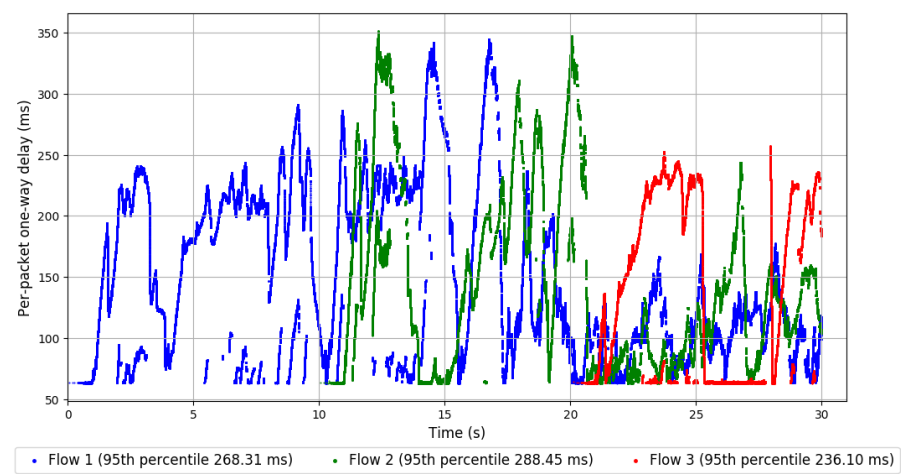
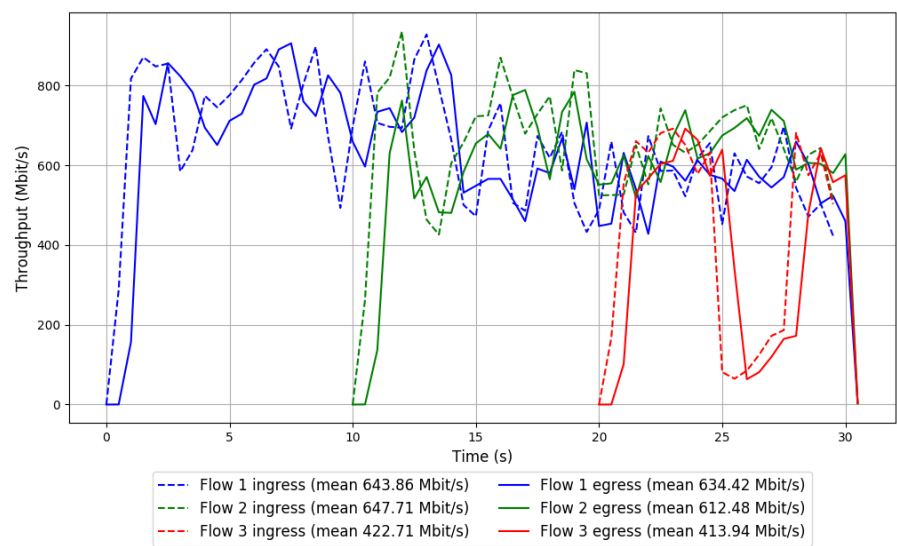
Run 7: Statistics of FillP

Start at: 2018-06-19 13:05:37  
End at: 2018-06-19 13:06:07  
Local clock offset: 0.26 ms  
Remote clock offset: -0.369 ms

# Below is generated by plot.py at 2018-06-19 15:35:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1178.75 Mbit/s  
95th percentile per-packet one-way delay: 272.465 ms  
Loss rate: 2.94%  
-- Flow 1:  
Average throughput: 634.42 Mbit/s  
95th percentile per-packet one-way delay: 268.315 ms  
Loss rate: 1.46%  
-- Flow 2:  
Average throughput: 612.48 Mbit/s  
95th percentile per-packet one-way delay: 288.454 ms  
Loss rate: 5.43%  
-- Flow 3:  
Average throughput: 413.94 Mbit/s  
95th percentile per-packet one-way delay: 236.103 ms  
Loss rate: 2.05%



Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-06-19 13:28:13

End at: 2018-06-19 13:28:43

Local clock offset: 0.068 ms

Remote clock offset: 0.218 ms

# Below is generated by plot.py at 2018-06-19 15:35:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1171.10 Mbit/s

95th percentile per-packet one-way delay: 260.232 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 563.76 Mbit/s

95th percentile per-packet one-way delay: 265.332 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 614.73 Mbit/s

95th percentile per-packet one-way delay: 263.122 ms

Loss rate: 1.01%

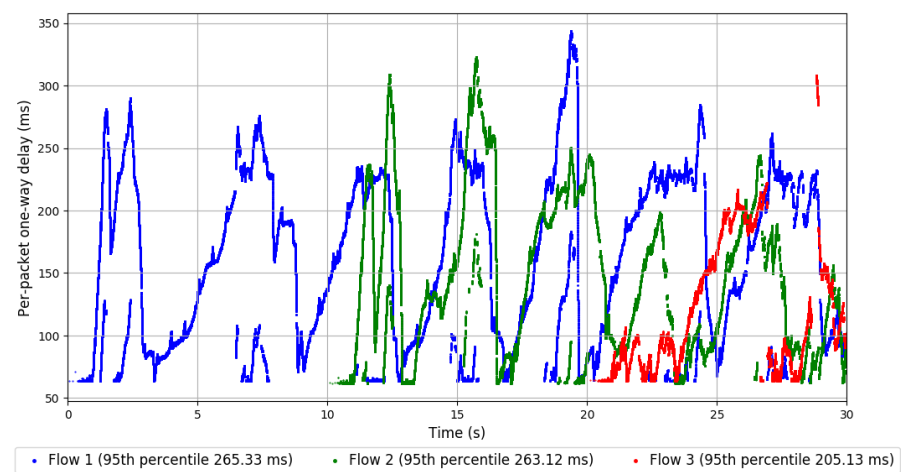
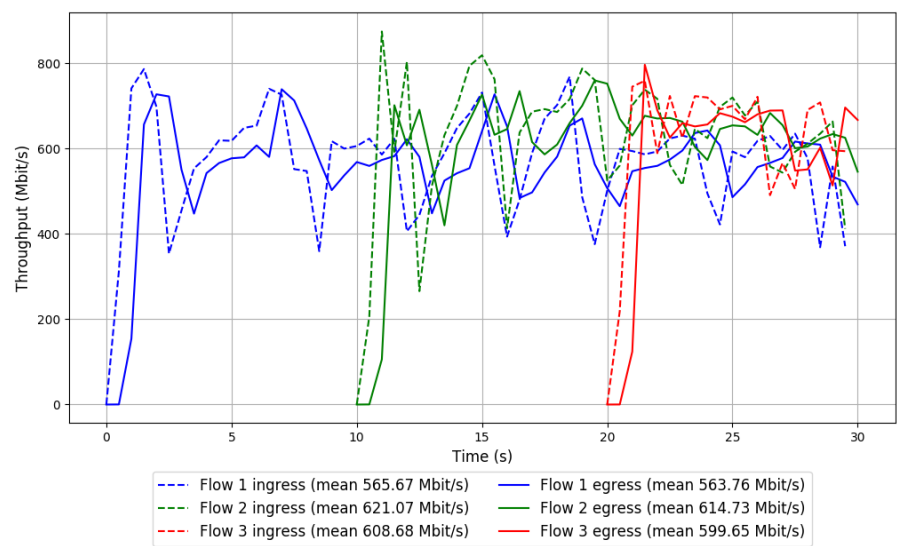
-- Flow 3:

Average throughput: 599.65 Mbit/s

95th percentile per-packet one-way delay: 205.130 ms

Loss rate: 1.46%

Run 8: Report of FillP — Data Link

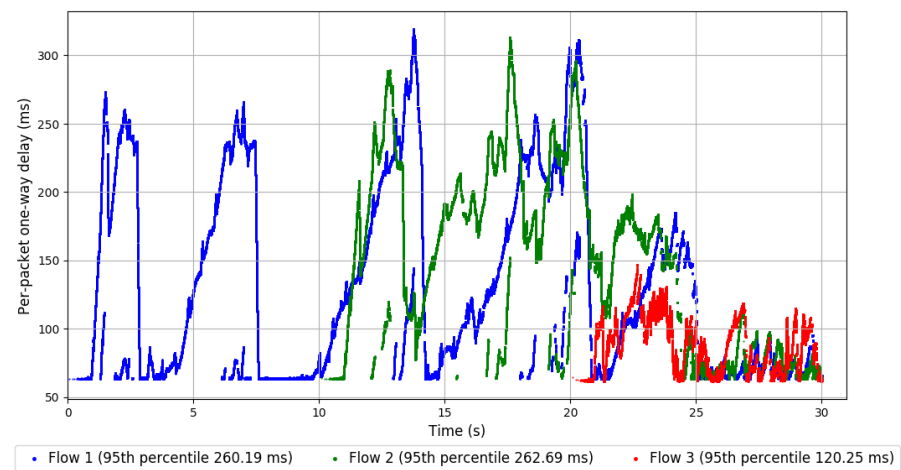
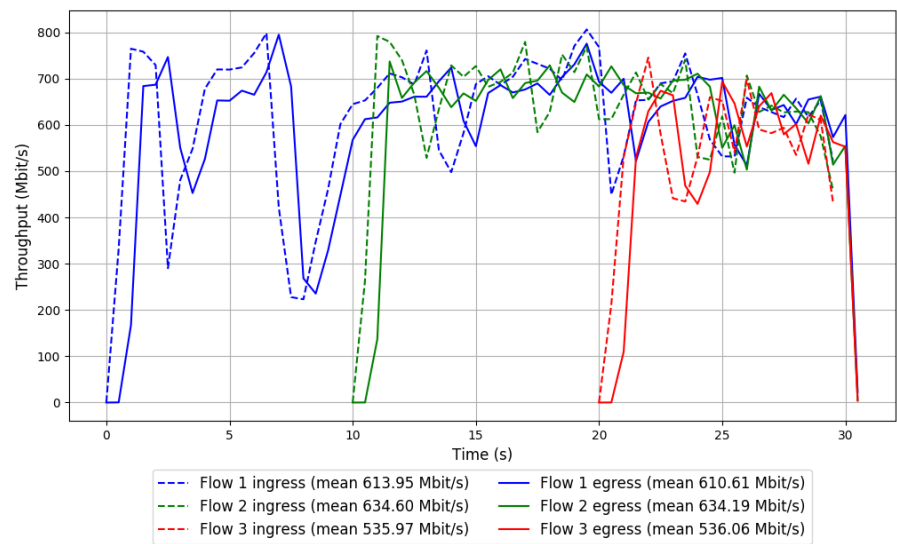


Run 9: Statistics of FillP

Start at: 2018-06-19 13:50:46  
End at: 2018-06-19 13:51:16  
Local clock offset: -0.003 ms  
Remote clock offset: -0.159 ms

# Below is generated by plot.py at 2018-06-19 15:59:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1210.17 Mbit/s  
95th percentile per-packet one-way delay: 254.174 ms  
Loss rate: 0.30%  
-- Flow 1:  
Average throughput: 610.61 Mbit/s  
95th percentile per-packet one-way delay: 260.194 ms  
Loss rate: 0.54%  
-- Flow 2:  
Average throughput: 634.19 Mbit/s  
95th percentile per-packet one-way delay: 262.689 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 536.06 Mbit/s  
95th percentile per-packet one-way delay: 120.248 ms  
Loss rate: 0.00%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-06-19 14:13:33

End at: 2018-06-19 14:14:03

Local clock offset: -0.02 ms

Remote clock offset: 0.332 ms

# Below is generated by plot.py at 2018-06-19 16:00:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1186.78 Mbit/s

95th percentile per-packet one-way delay: 245.188 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 628.56 Mbit/s

95th percentile per-packet one-way delay: 260.080 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 616.36 Mbit/s

95th percentile per-packet one-way delay: 234.118 ms

Loss rate: 0.27%

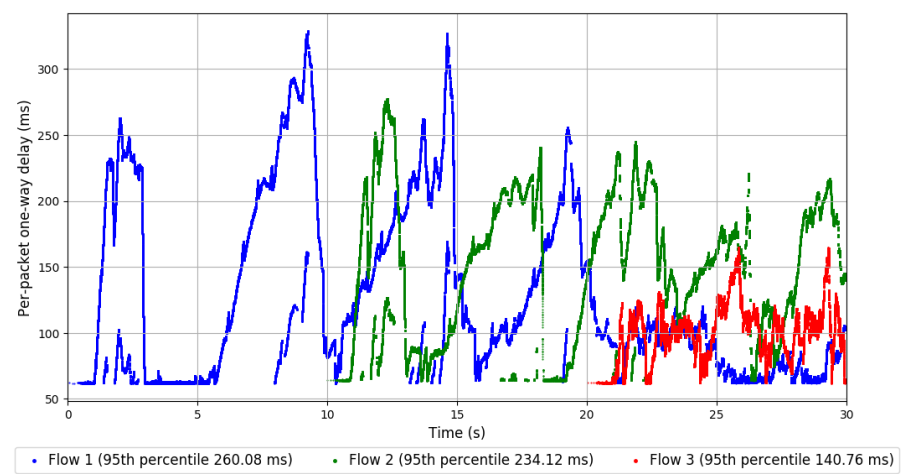
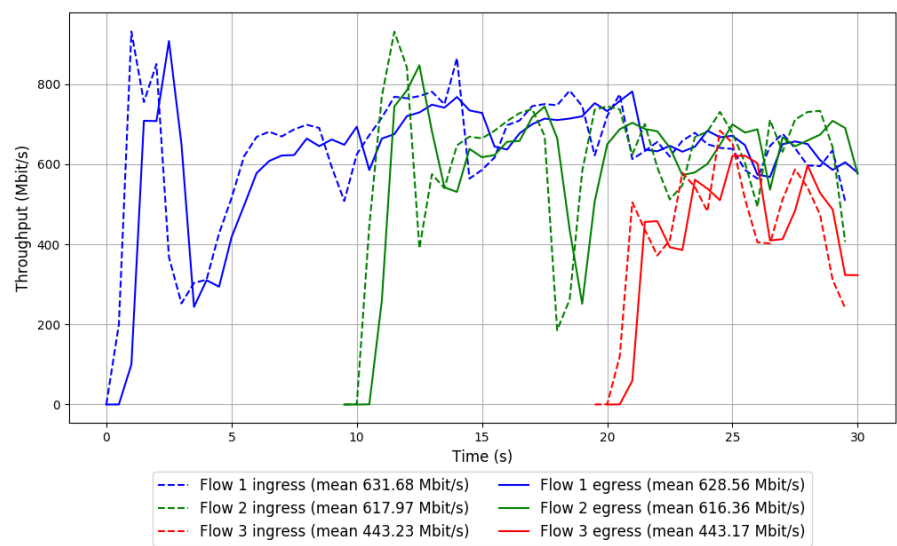
-- Flow 3:

Average throughput: 443.17 Mbit/s

95th percentile per-packet one-way delay: 140.758 ms

Loss rate: 0.01%

Run 10: Report of FillP — Data Link



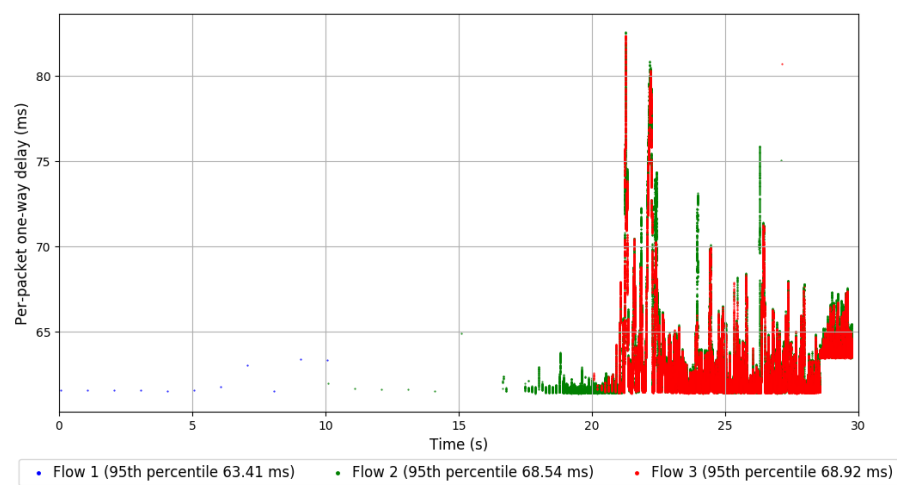
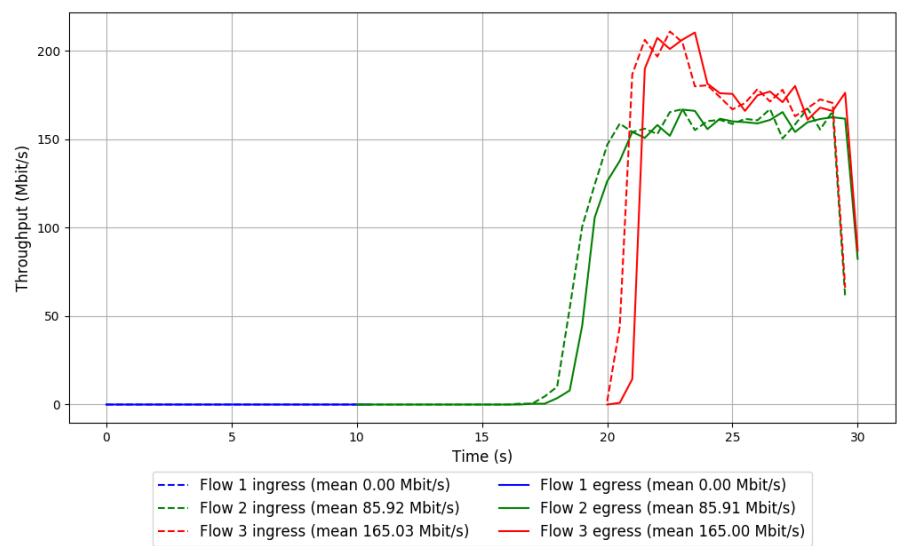
Run 1: Statistics of Indigo

Start at: 2018-06-19 10:47:39  
End at: 2018-06-19 10:48:09  
Local clock offset: -0.259 ms  
Remote clock offset: -0.131 ms

# Below is generated by plot.py at 2018-06-19 16:00:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 110.64 Mbit/s  
95th percentile per-packet one-way delay: 68.743 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 63.411 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 85.91 Mbit/s  
95th percentile per-packet one-way delay: 68.544 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 165.00 Mbit/s  
95th percentile per-packet one-way delay: 68.919 ms  
Loss rate: 0.00%



Run 1: Report of Indigo — Data Link

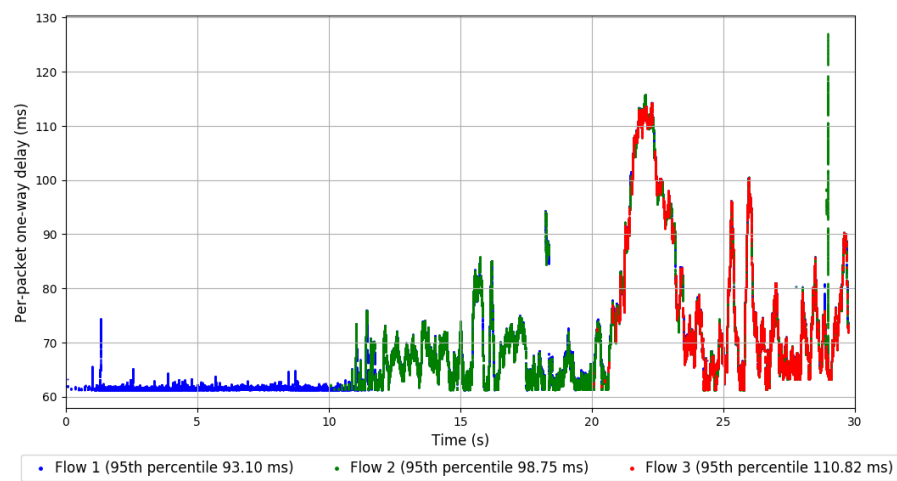
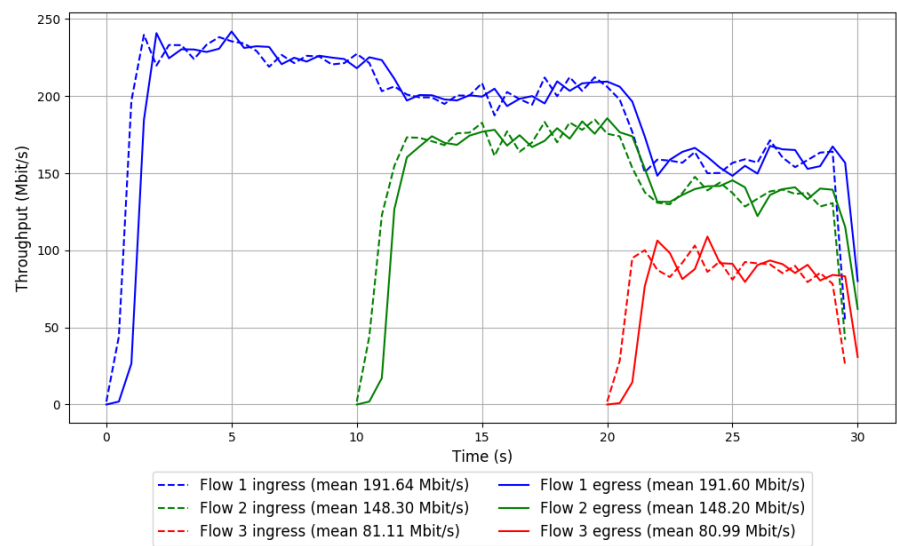


Run 2: Statistics of Indigo

Start at: 2018-06-19 11:10:01  
End at: 2018-06-19 11:10:31  
Local clock offset: -0.283 ms  
Remote clock offset: -0.379 ms

# Below is generated by plot.py at 2018-06-19 16:00:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 316.24 Mbit/s  
95th percentile per-packet one-way delay: 97.872 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 191.60 Mbit/s  
95th percentile per-packet one-way delay: 93.100 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 148.20 Mbit/s  
95th percentile per-packet one-way delay: 98.751 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 80.99 Mbit/s  
95th percentile per-packet one-way delay: 110.816 ms  
Loss rate: 0.15%

Run 2: Report of Indigo — Data Link

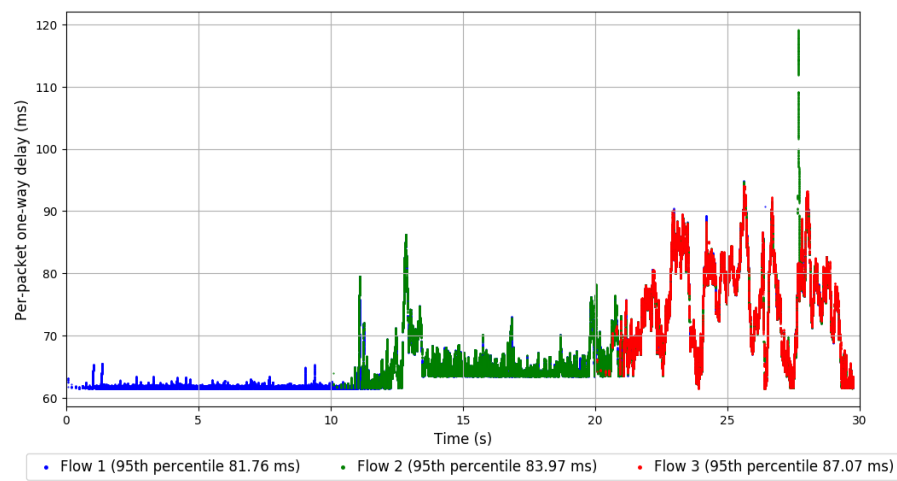
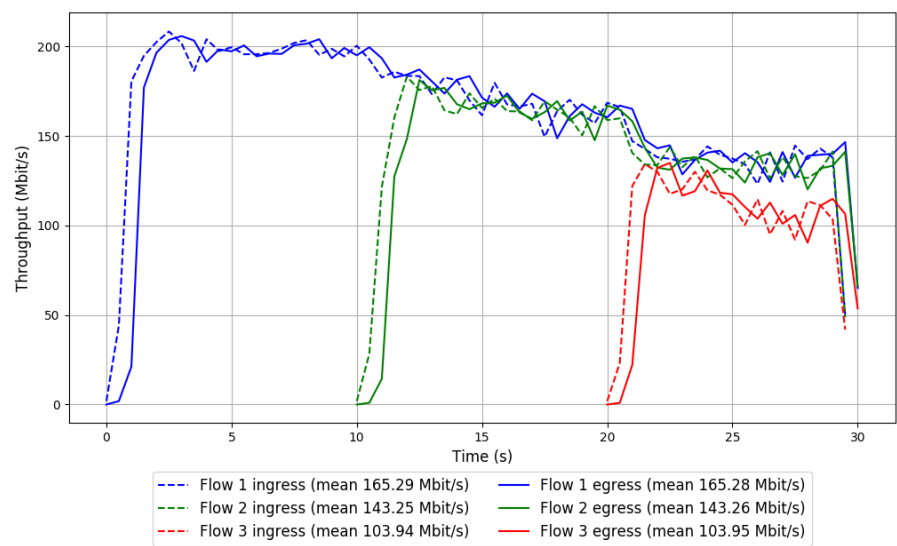


Run 3: Statistics of Indigo

Start at: 2018-06-19 11:32:25  
End at: 2018-06-19 11:32:55  
Local clock offset: -0.309 ms  
Remote clock offset: -0.144 ms

# Below is generated by plot.py at 2018-06-19 16:00:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 293.90 Mbit/s  
95th percentile per-packet one-way delay: 83.553 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 165.28 Mbit/s  
95th percentile per-packet one-way delay: 81.764 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 143.26 Mbit/s  
95th percentile per-packet one-way delay: 83.967 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 103.95 Mbit/s  
95th percentile per-packet one-way delay: 87.072 ms  
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-06-19 11:54:50

End at: 2018-06-19 11:55:20

Local clock offset: 0.098 ms

Remote clock offset: 0.146 ms

# Below is generated by plot.py at 2018-06-19 16:00:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 307.91 Mbit/s

95th percentile per-packet one-way delay: 86.481 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 183.70 Mbit/s

95th percentile per-packet one-way delay: 84.747 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 157.23 Mbit/s

95th percentile per-packet one-way delay: 87.542 ms

Loss rate: 0.02%

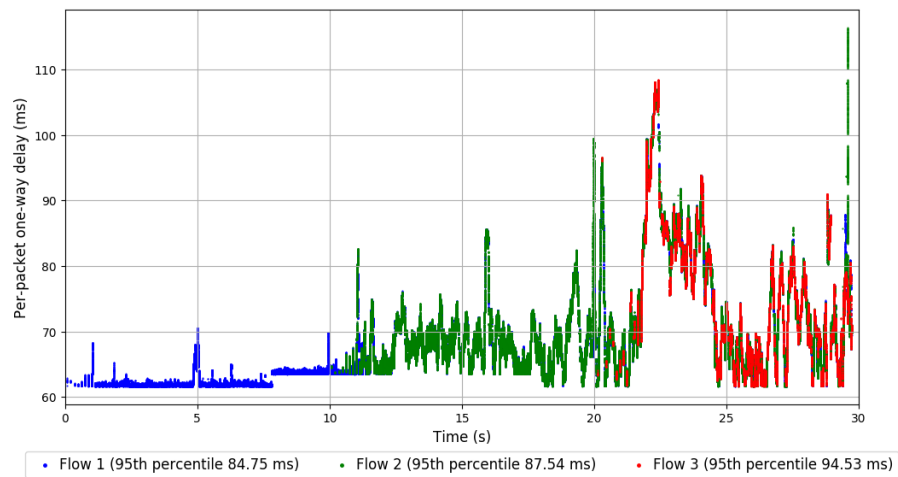
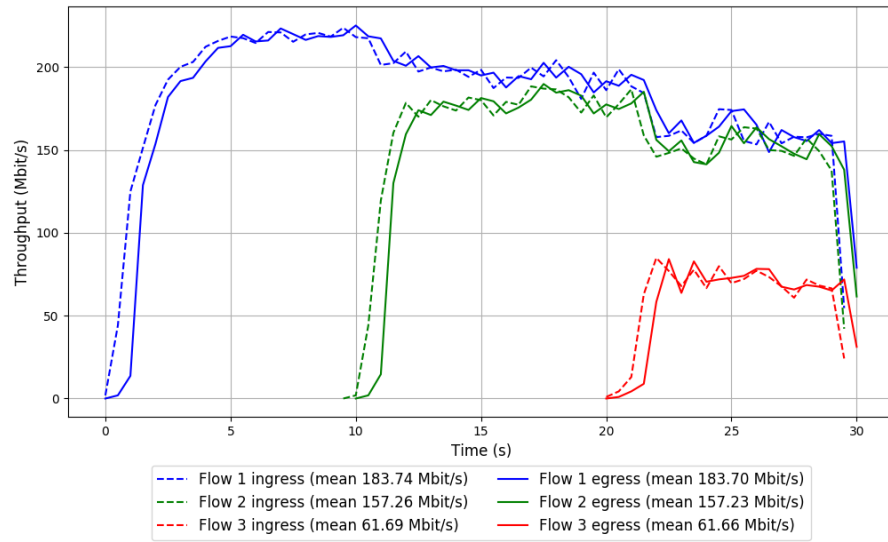
-- Flow 3:

Average throughput: 61.66 Mbit/s

95th percentile per-packet one-way delay: 94.534 ms

Loss rate: 0.03%

#### Run 4: Report of Indigo — Data Link



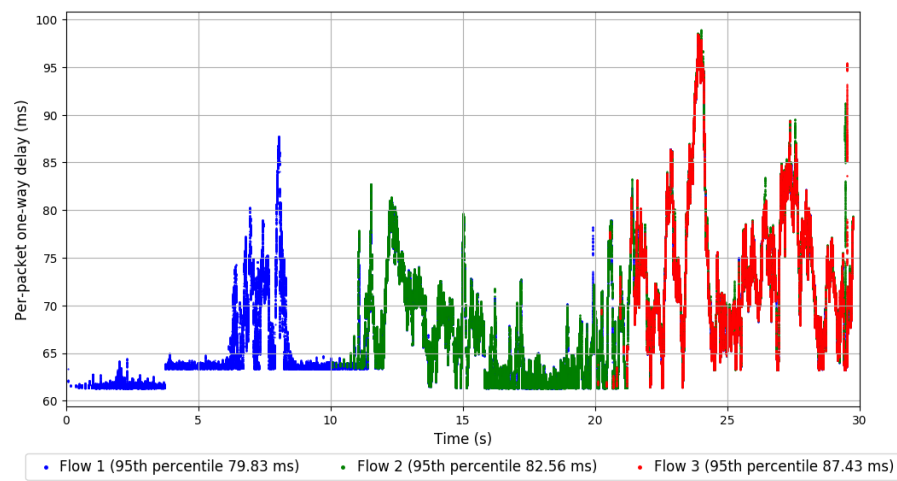
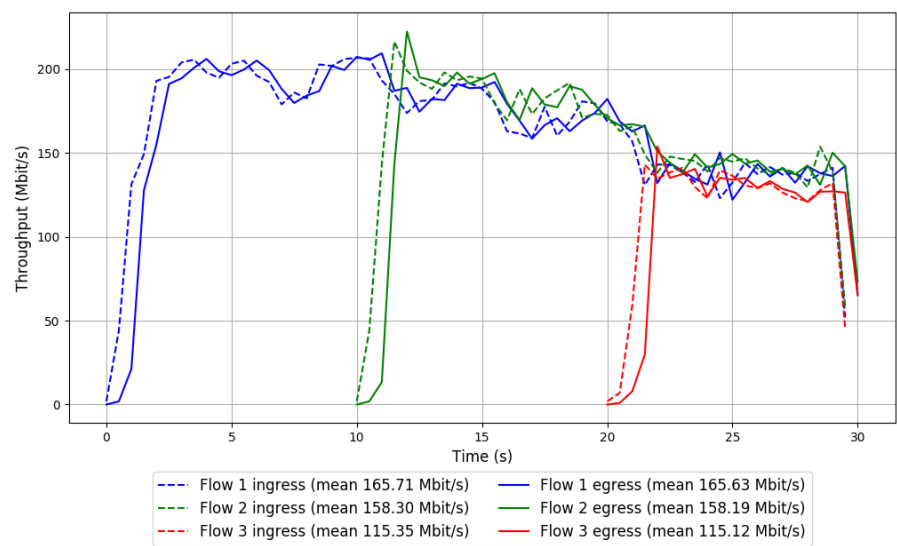
Run 5: Statistics of Indigo

Start at: 2018-06-19 12:17:34  
End at: 2018-06-19 12:18:04  
Local clock offset: 0.1 ms  
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2018-06-19 16:00:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 307.84 Mbit/s  
95th percentile per-packet one-way delay: 82.420 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 165.63 Mbit/s  
95th percentile per-packet one-way delay: 79.833 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 158.19 Mbit/s  
95th percentile per-packet one-way delay: 82.564 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 115.12 Mbit/s  
95th percentile per-packet one-way delay: 87.429 ms  
Loss rate: 0.18%



Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-06-19 12:40:11

End at: 2018-06-19 12:40:41

Local clock offset: -0.019 ms

Remote clock offset: 0.279 ms

# Below is generated by plot.py at 2018-06-19 16:00:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 306.05 Mbit/s

95th percentile per-packet one-way delay: 88.998 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 181.64 Mbit/s

95th percentile per-packet one-way delay: 85.891 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 150.70 Mbit/s

95th percentile per-packet one-way delay: 89.964 ms

Loss rate: 0.00%

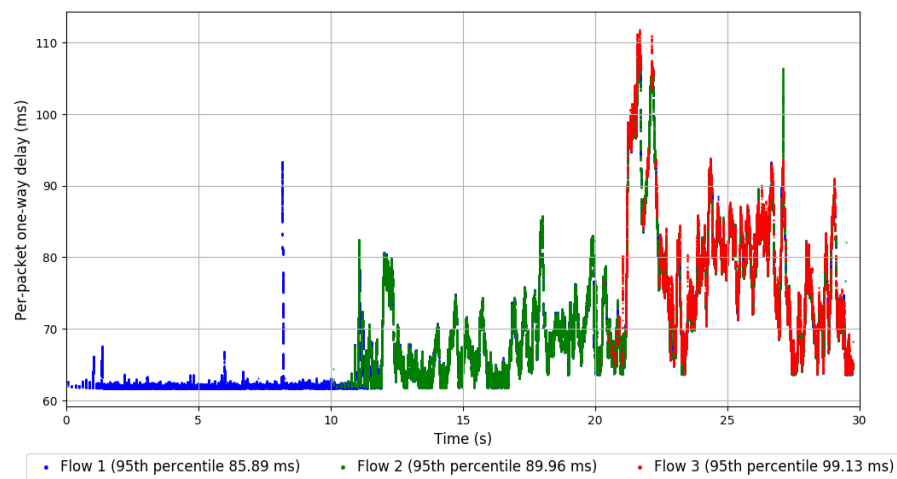
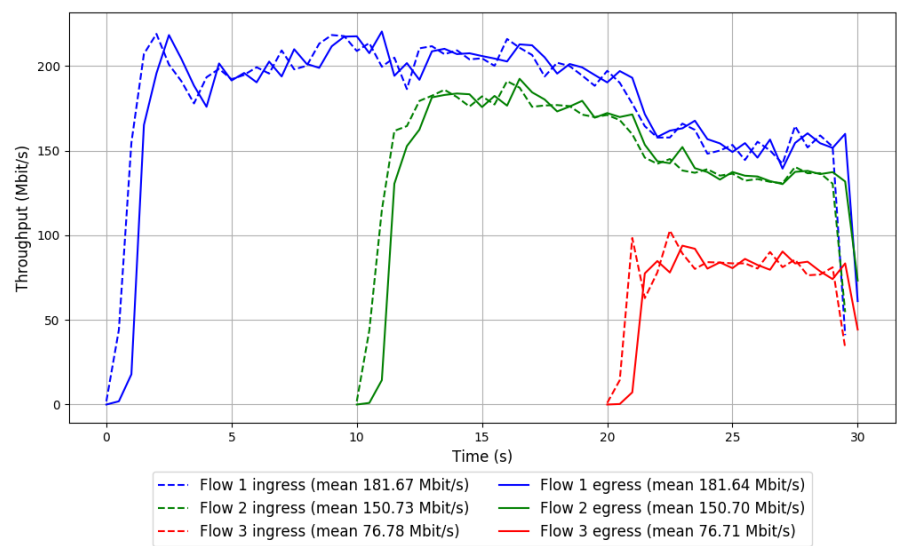
-- Flow 3:

Average throughput: 76.71 Mbit/s

95th percentile per-packet one-way delay: 99.128 ms

Loss rate: 0.09%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-06-19 13:02:38

End at: 2018-06-19 13:03:08

Local clock offset: 0.245 ms

Remote clock offset: 0.143 ms

# Below is generated by plot.py at 2018-06-19 16:00:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 307.91 Mbit/s

95th percentile per-packet one-way delay: 94.860 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 174.85 Mbit/s

95th percentile per-packet one-way delay: 91.103 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 151.47 Mbit/s

95th percentile per-packet one-way delay: 94.889 ms

Loss rate: 0.05%

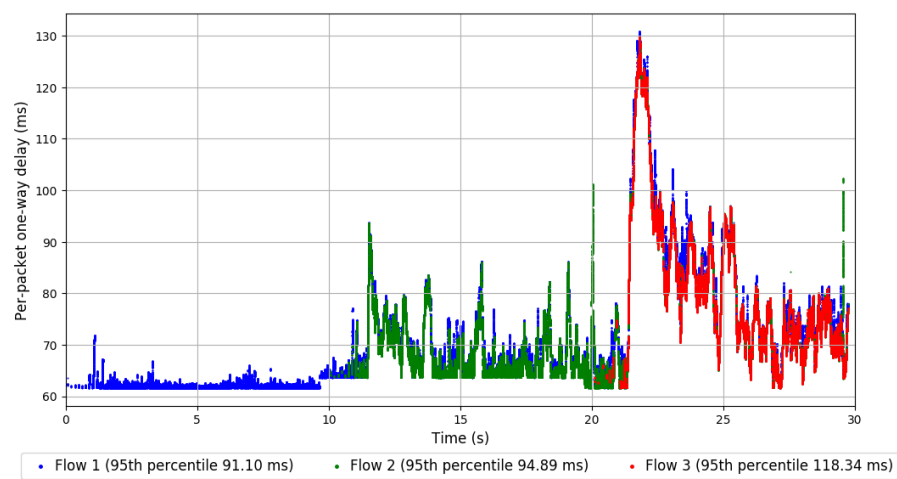
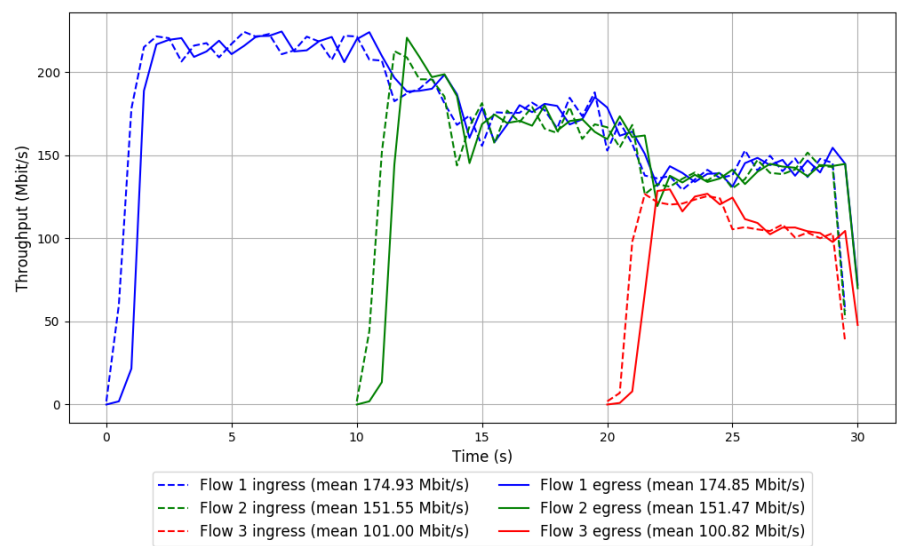
-- Flow 3:

Average throughput: 100.82 Mbit/s

95th percentile per-packet one-way delay: 118.345 ms

Loss rate: 0.17%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-06-19 13:25:14

End at: 2018-06-19 13:25:44

Local clock offset: 0.177 ms

Remote clock offset: 0.017 ms

# Below is generated by plot.py at 2018-06-19 16:00:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 306.70 Mbit/s

95th percentile per-packet one-way delay: 91.408 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 184.84 Mbit/s

95th percentile per-packet one-way delay: 87.673 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 148.07 Mbit/s

95th percentile per-packet one-way delay: 92.986 ms

Loss rate: 0.07%

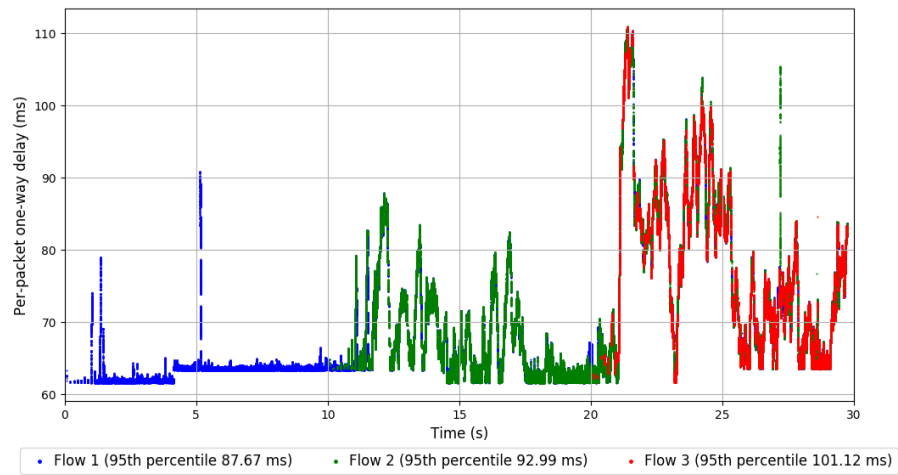
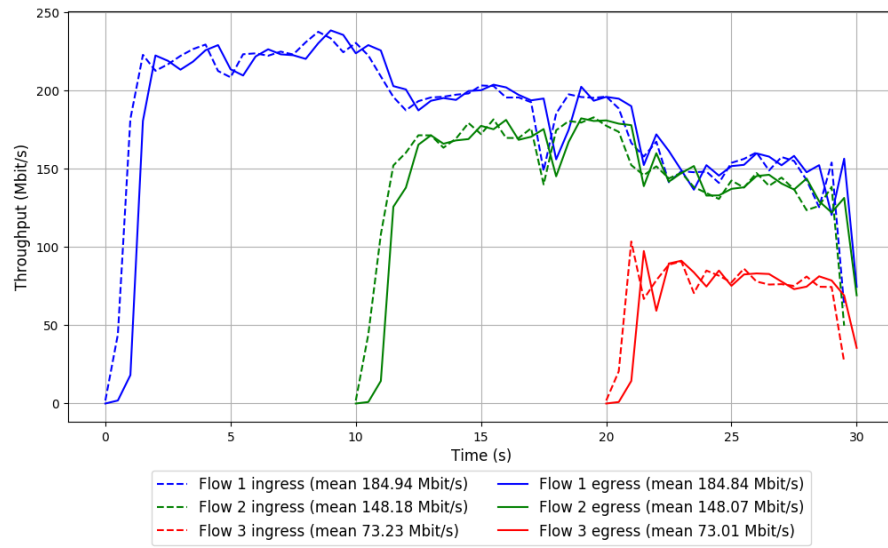
-- Flow 3:

Average throughput: 73.01 Mbit/s

95th percentile per-packet one-way delay: 101.120 ms

Loss rate: 0.28%

## Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-06-19 13:47:47

End at: 2018-06-19 13:48:17

Local clock offset: -0.013 ms

Remote clock offset: 0.278 ms

# Below is generated by plot.py at 2018-06-19 16:00:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 280.13 Mbit/s

95th percentile per-packet one-way delay: 90.796 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 152.51 Mbit/s

95th percentile per-packet one-way delay: 88.721 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 148.95 Mbit/s

95th percentile per-packet one-way delay: 89.568 ms

Loss rate: 0.07%

-- Flow 3:

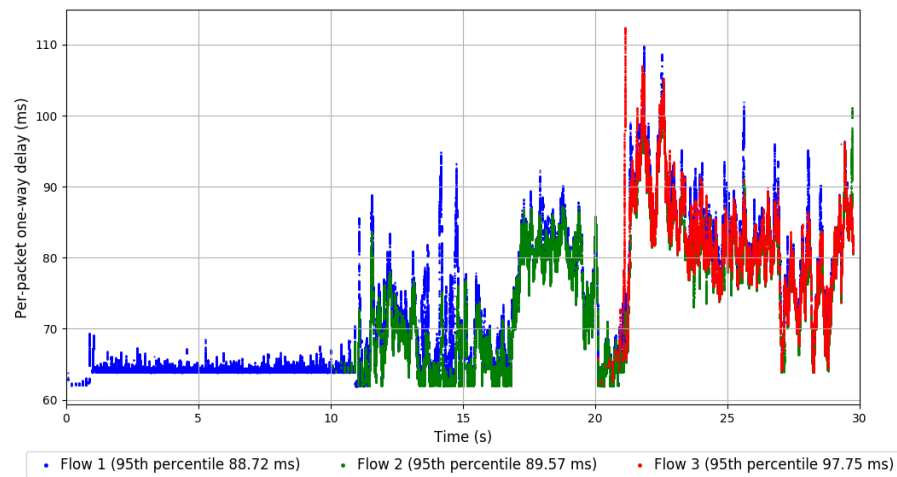
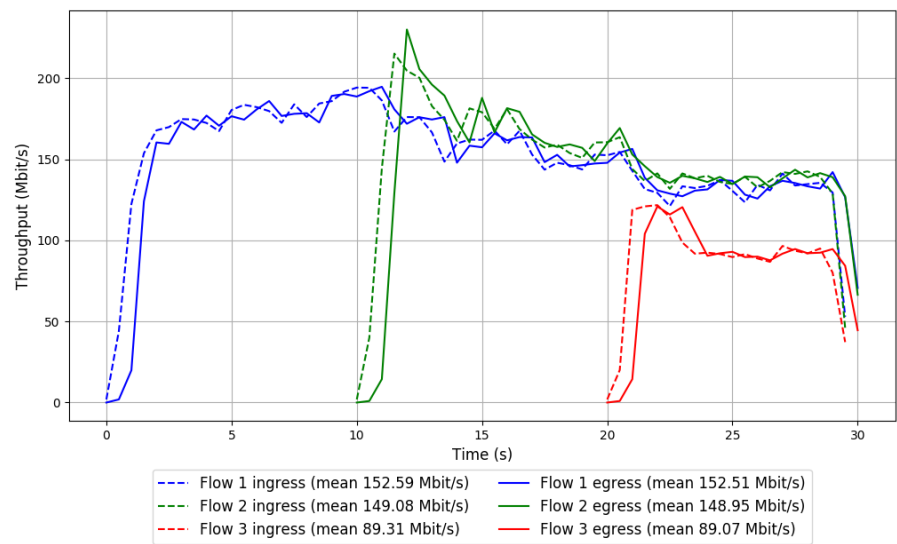
Average throughput: 89.07 Mbit/s

95th percentile per-packet one-way delay: 97.753 ms

Loss rate: 0.23%



Run 9: Report of Indigo — Data Link

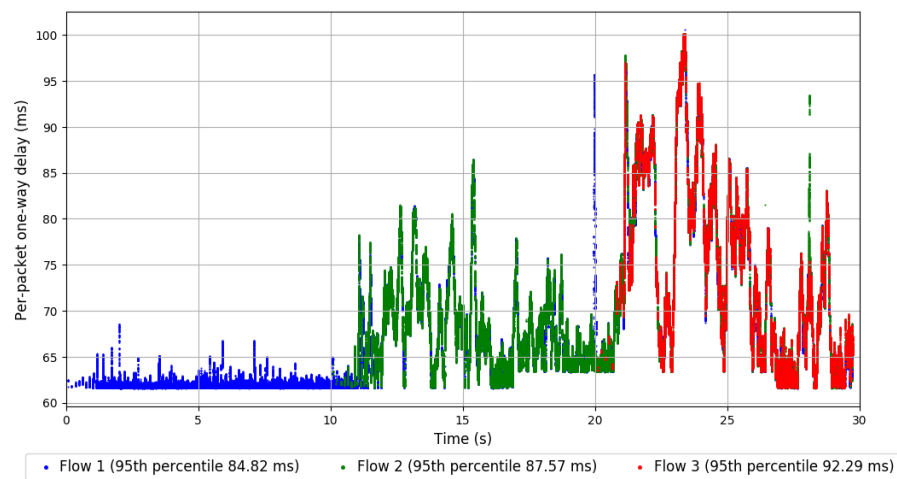
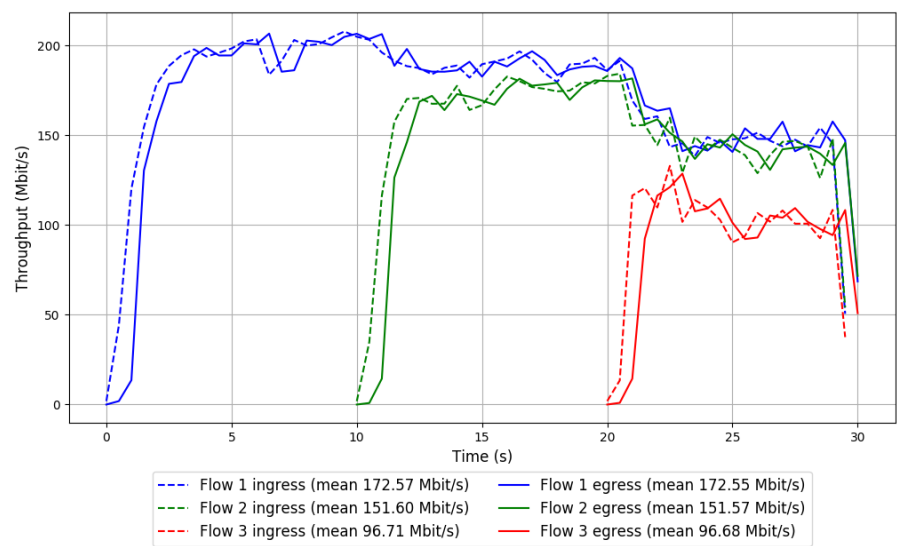


Run 10: Statistics of Indigo

Start at: 2018-06-19 14:10:31  
End at: 2018-06-19 14:11:01  
Local clock offset: -0.041 ms  
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2018-06-19 16:00:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 304.27 Mbit/s  
95th percentile per-packet one-way delay: 87.120 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 172.55 Mbit/s  
95th percentile per-packet one-way delay: 84.821 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 151.57 Mbit/s  
95th percentile per-packet one-way delay: 87.568 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 96.68 Mbit/s  
95th percentile per-packet one-way delay: 92.286 ms  
Loss rate: 0.02%

Run 10: Report of Indigo — Data Link

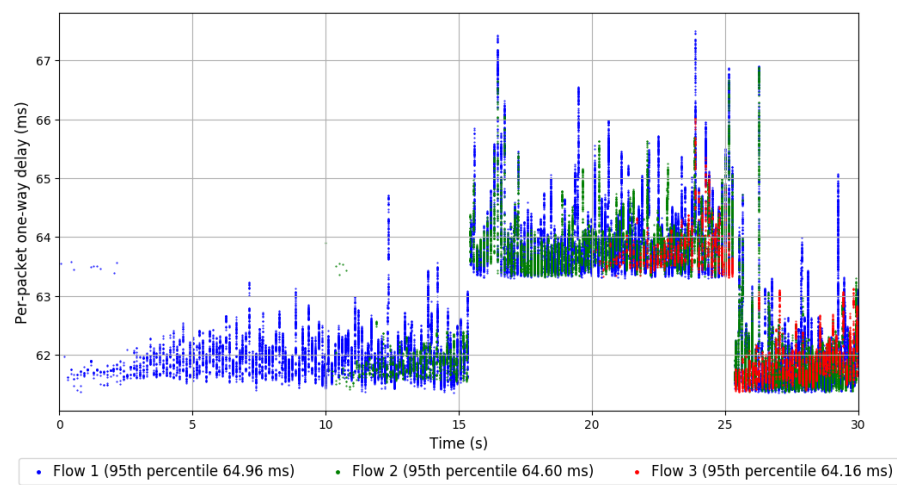
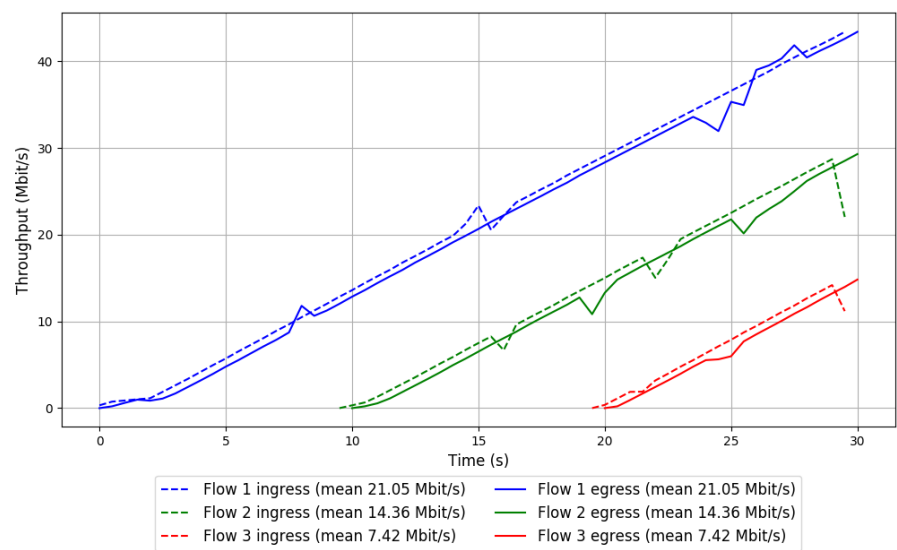


```
Run 1: Statistics of LEDBAT

Start at: 2018-06-19 10:59:03
End at: 2018-06-19 10:59:33
Local clock offset: -0.27 ms
Remote clock offset: -0.221 ms

# Below is generated by plot.py at 2018-06-19 16:00:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.06 Mbit/s
95th percentile per-packet one-way delay: 64.806 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 21.05 Mbit/s
95th percentile per-packet one-way delay: 64.961 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 14.36 Mbit/s
95th percentile per-packet one-way delay: 64.604 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.42 Mbit/s
95th percentile per-packet one-way delay: 64.156 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

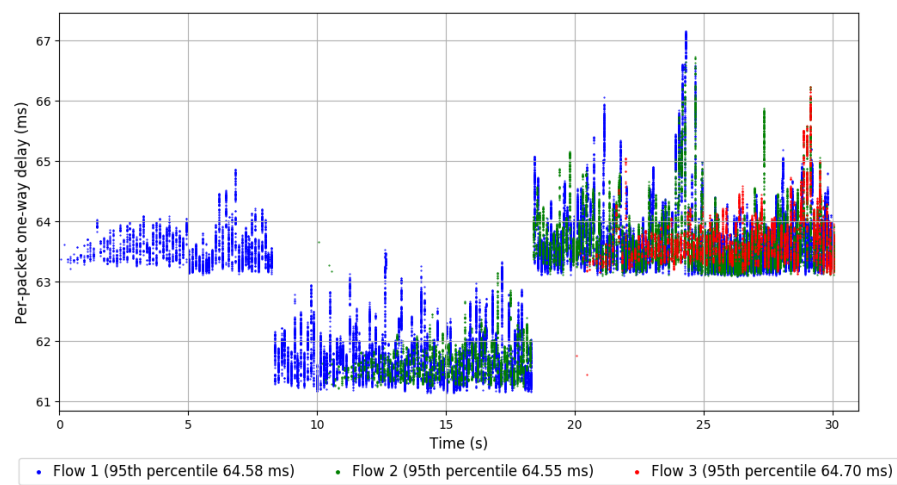
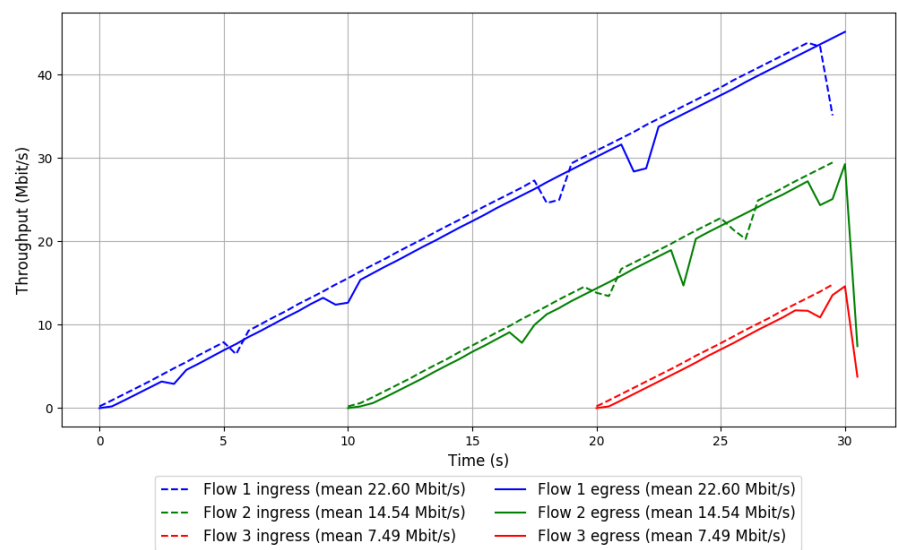


Run 2: Statistics of LEDBAT

Start at: 2018-06-19 11:21:40  
End at: 2018-06-19 11:22:10  
Local clock offset: -0.255 ms  
Remote clock offset: -0.429 ms

# Below is generated by plot.py at 2018-06-19 16:00:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 34.70 Mbit/s  
95th percentile per-packet one-way delay: 64.581 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 22.60 Mbit/s  
95th percentile per-packet one-way delay: 64.583 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 14.54 Mbit/s  
95th percentile per-packet one-way delay: 64.553 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 7.49 Mbit/s  
95th percentile per-packet one-way delay: 64.701 ms  
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-06-19 11:44:04

End at: 2018-06-19 11:44:34

Local clock offset: -0.075 ms

Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2018-06-19 16:00:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 34.69 Mbit/s

95th percentile per-packet one-way delay: 65.256 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 22.27 Mbit/s

95th percentile per-packet one-way delay: 65.200 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 15.19 Mbit/s

95th percentile per-packet one-way delay: 65.323 ms

Loss rate: 0.00%

-- Flow 3:

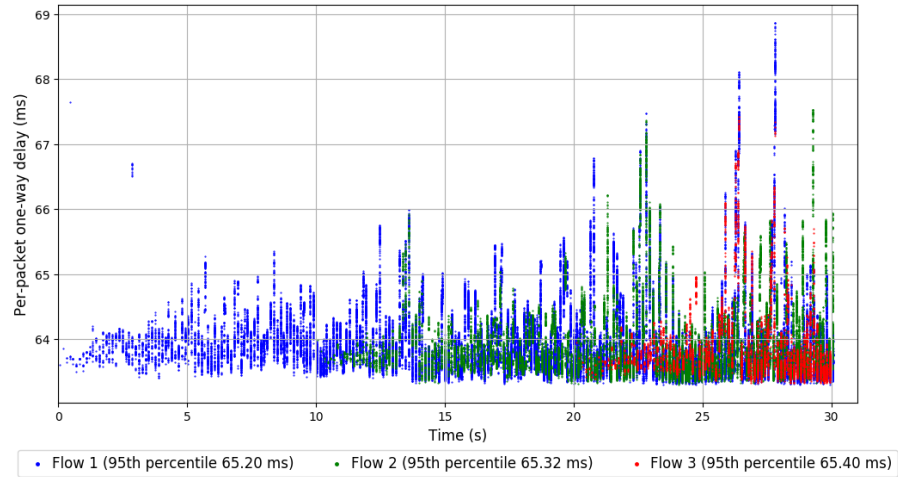
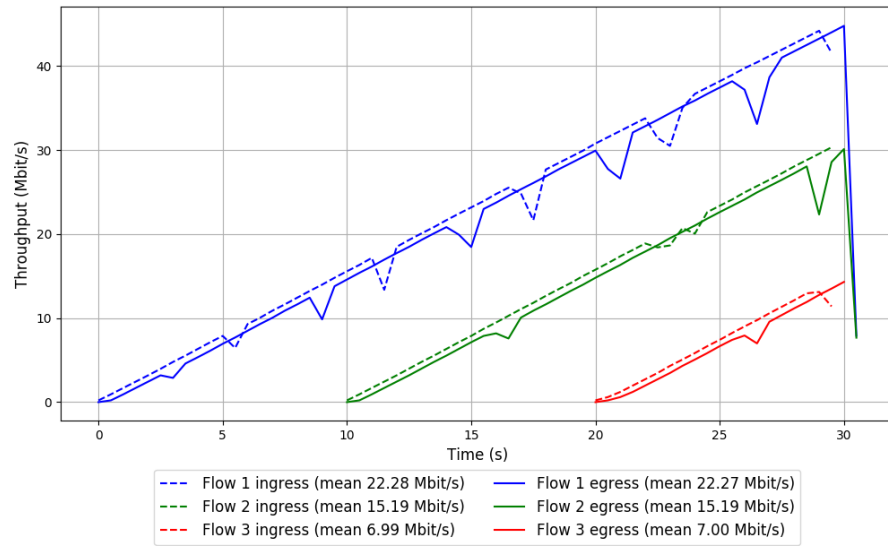
Average throughput: 7.00 Mbit/s

95th percentile per-packet one-way delay: 65.401 ms

Loss rate: 0.00%



### Run 3: Report of LEDBAT — Data Link

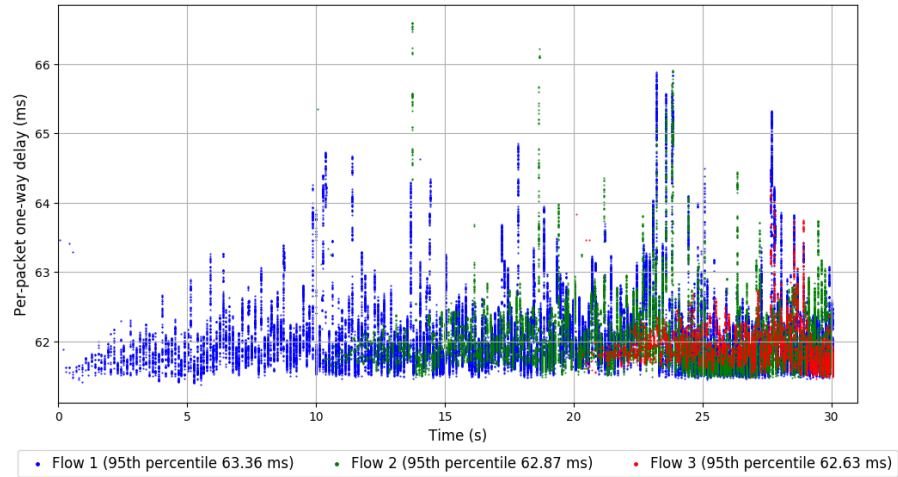
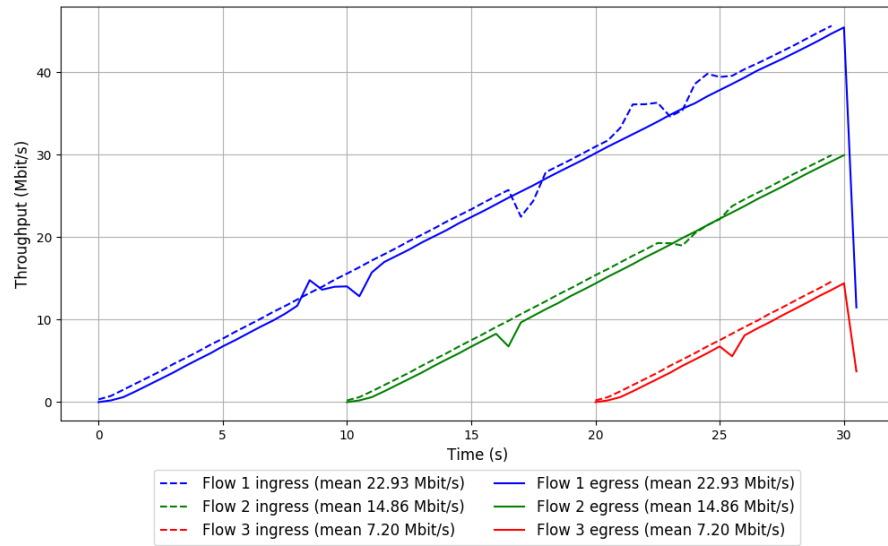


Run 4: Statistics of LEDBAT

Start at: 2018-06-19 12:06:42  
End at: 2018-06-19 12:07:12  
Local clock offset: 0.222 ms  
Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2018-06-19 16:00:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 35.18 Mbit/s  
95th percentile per-packet one-way delay: 63.167 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 22.93 Mbit/s  
95th percentile per-packet one-way delay: 63.363 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 14.86 Mbit/s  
95th percentile per-packet one-way delay: 62.868 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 7.20 Mbit/s  
95th percentile per-packet one-way delay: 62.631 ms  
Loss rate: 0.00%

# Run 4: Report of LEDBAT — Data Link

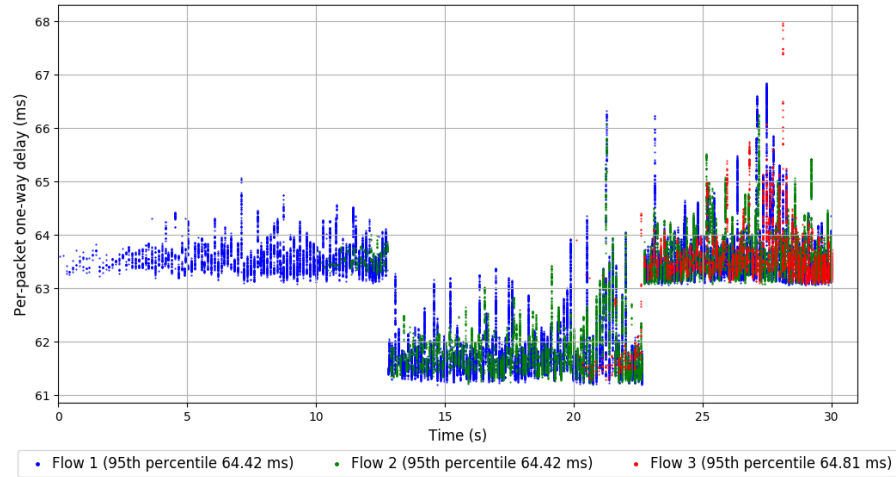
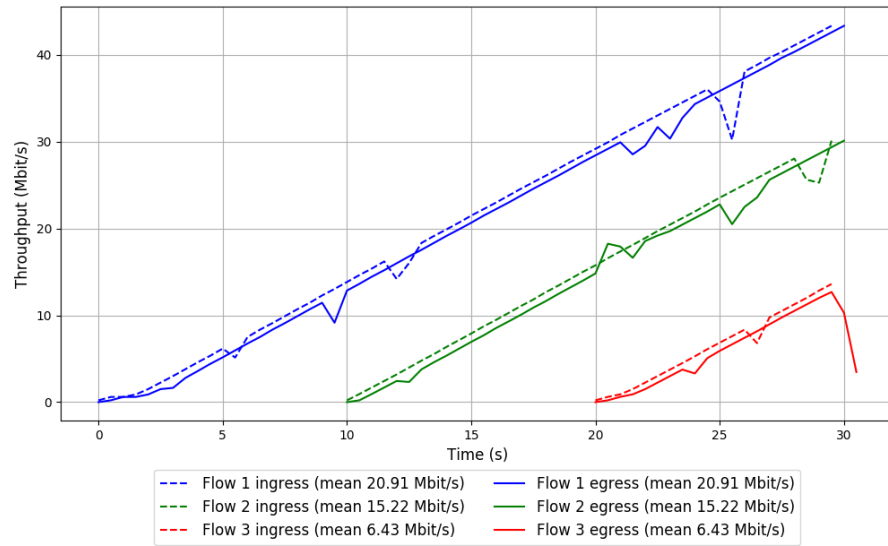


Run 5: Statistics of LEDBAT

Start at: 2018-06-19 12:29:25  
End at: 2018-06-19 12:29:55  
Local clock offset: 0.042 ms  
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2018-06-19 16:00:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 33.13 Mbit/s  
95th percentile per-packet one-way delay: 64.457 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 20.91 Mbit/s  
95th percentile per-packet one-way delay: 64.423 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 15.22 Mbit/s  
95th percentile per-packet one-way delay: 64.422 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 6.43 Mbit/s  
95th percentile per-packet one-way delay: 64.810 ms  
Loss rate: 0.00%

## Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-06-19 12:51:56

End at: 2018-06-19 12:52:26

Local clock offset: 0.101 ms

Remote clock offset: 0.129 ms

# Below is generated by plot.py at 2018-06-19 16:00:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 34.29 Mbit/s

95th percentile per-packet one-way delay: 64.916 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 21.95 Mbit/s

95th percentile per-packet one-way delay: 65.237 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 14.91 Mbit/s

95th percentile per-packet one-way delay: 64.609 ms

Loss rate: 0.00%

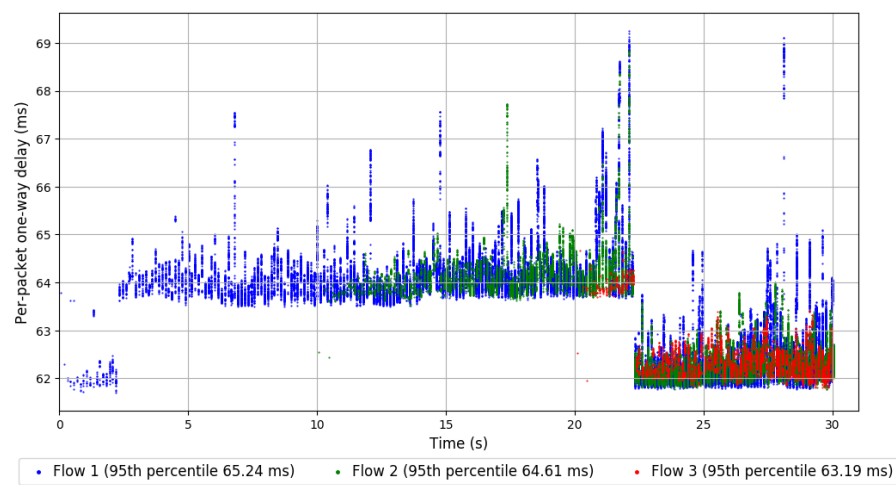
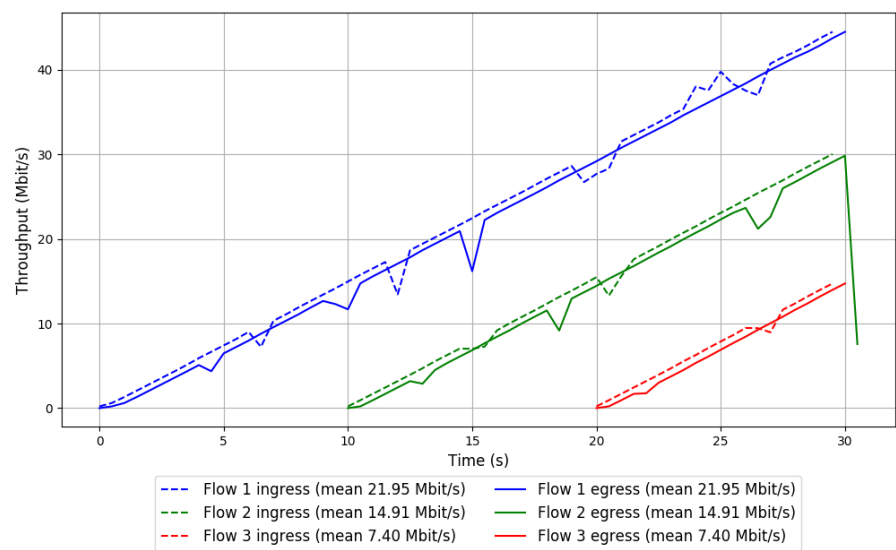
-- Flow 3:

Average throughput: 7.40 Mbit/s

95th percentile per-packet one-way delay: 63.186 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



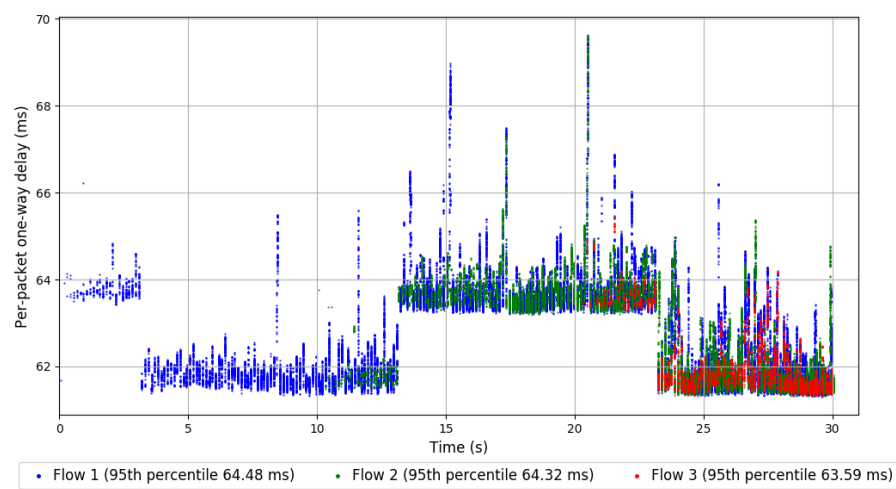
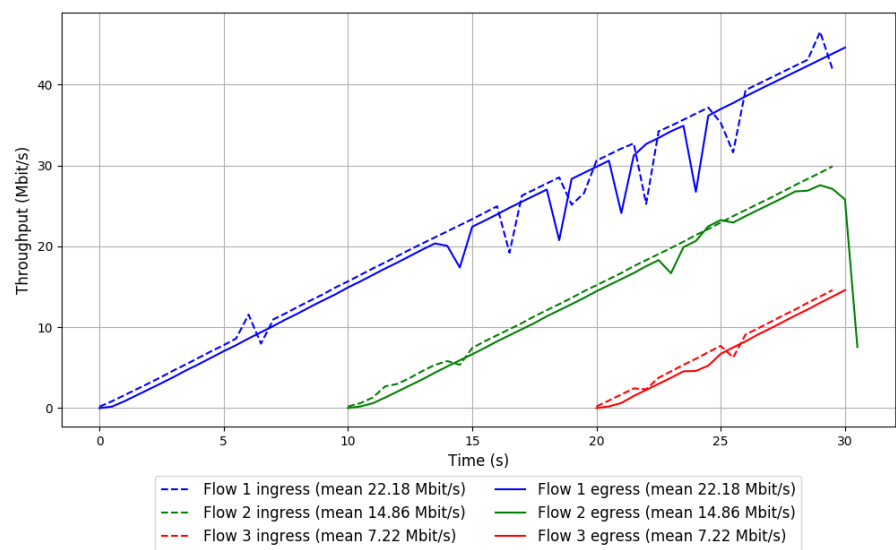
Run 7: Statistics of LEDBAT

Start at: 2018-06-19 13:14:25  
End at: 2018-06-19 13:14:55  
Local clock offset: 0.268 ms  
Remote clock offset: -0.153 ms

# Below is generated by plot.py at 2018-06-19 16:00:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 34.41 Mbit/s  
95th percentile per-packet one-way delay: 64.369 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 22.18 Mbit/s  
95th percentile per-packet one-way delay: 64.481 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 14.86 Mbit/s  
95th percentile per-packet one-way delay: 64.316 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 7.22 Mbit/s  
95th percentile per-packet one-way delay: 63.595 ms  
Loss rate: 0.00%



Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-06-19 13:36:59

End at: 2018-06-19 13:37:29

Local clock offset: 0.023 ms

Remote clock offset: 0.115 ms

# Below is generated by plot.py at 2018-06-19 16:00:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 29.97 Mbit/s

95th percentile per-packet one-way delay: 64.614 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 17.41 Mbit/s

95th percentile per-packet one-way delay: 64.784 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 15.24 Mbit/s

95th percentile per-packet one-way delay: 64.359 ms

Loss rate: 0.00%

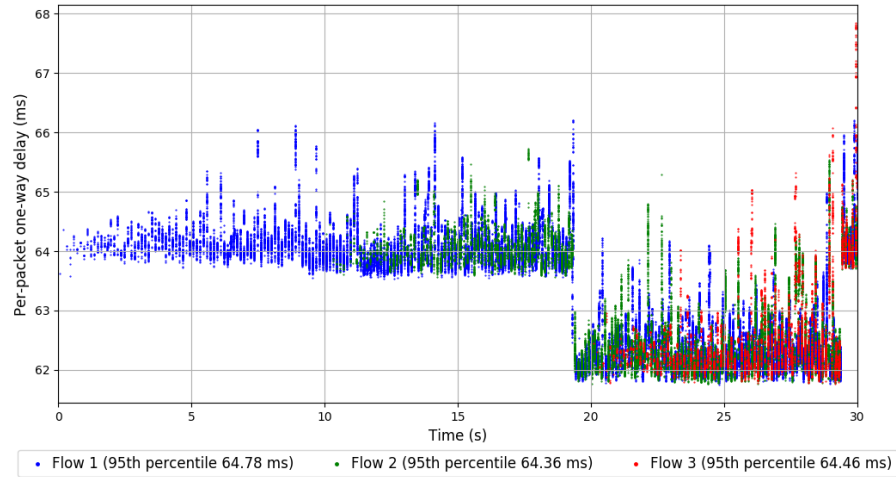
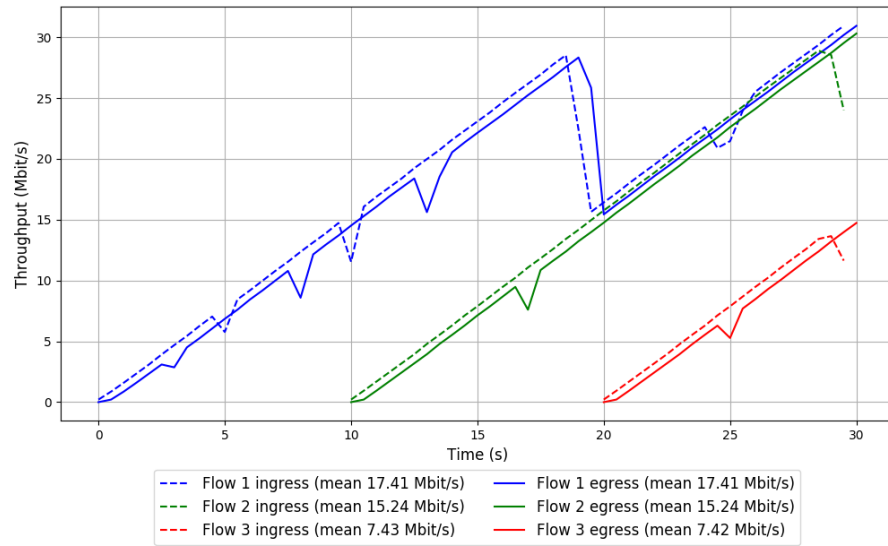
-- Flow 3:

Average throughput: 7.42 Mbit/s

95th percentile per-packet one-way delay: 64.460 ms

Loss rate: 0.00%

## Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-06-19 13:59:35

End at: 2018-06-19 14:00:05

Local clock offset: 0.033 ms

Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2018-06-19 16:00:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 34.20 Mbit/s

95th percentile per-packet one-way delay: 65.132 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 22.39 Mbit/s

95th percentile per-packet one-way delay: 65.122 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 14.20 Mbit/s

95th percentile per-packet one-way delay: 65.302 ms

Loss rate: 0.00%

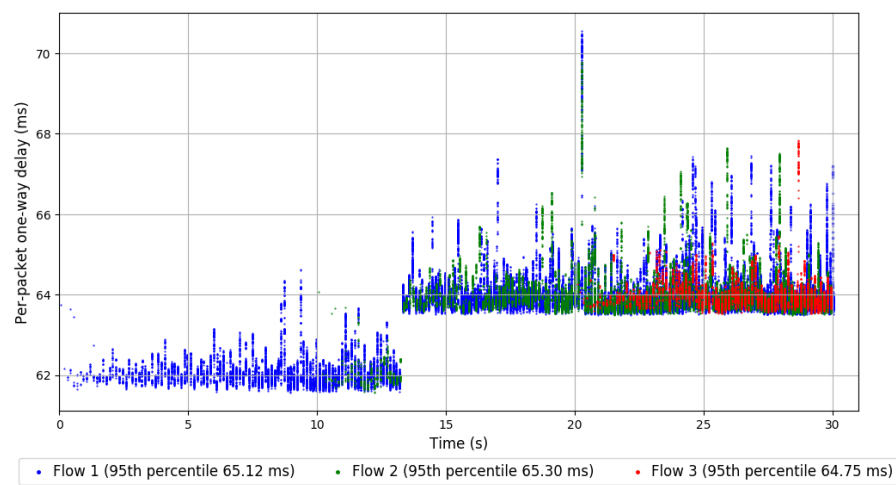
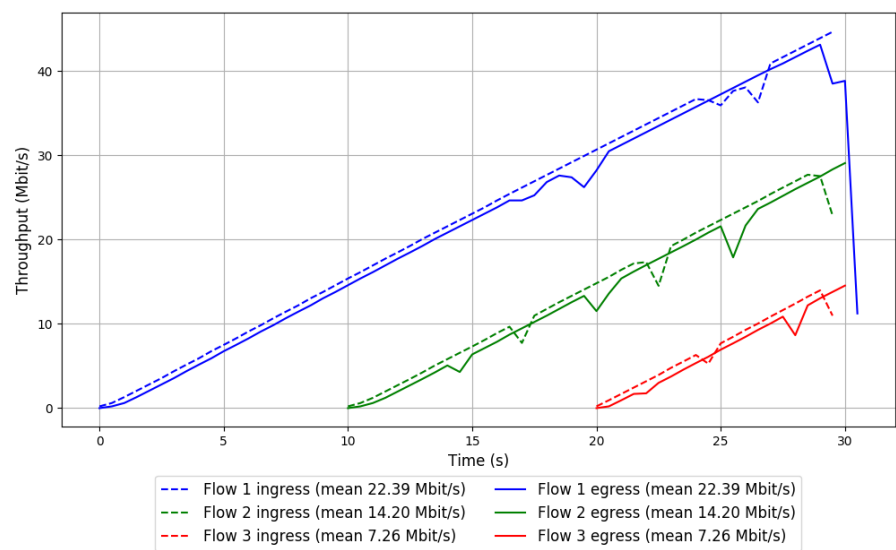
-- Flow 3:

Average throughput: 7.26 Mbit/s

95th percentile per-packet one-way delay: 64.751 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link

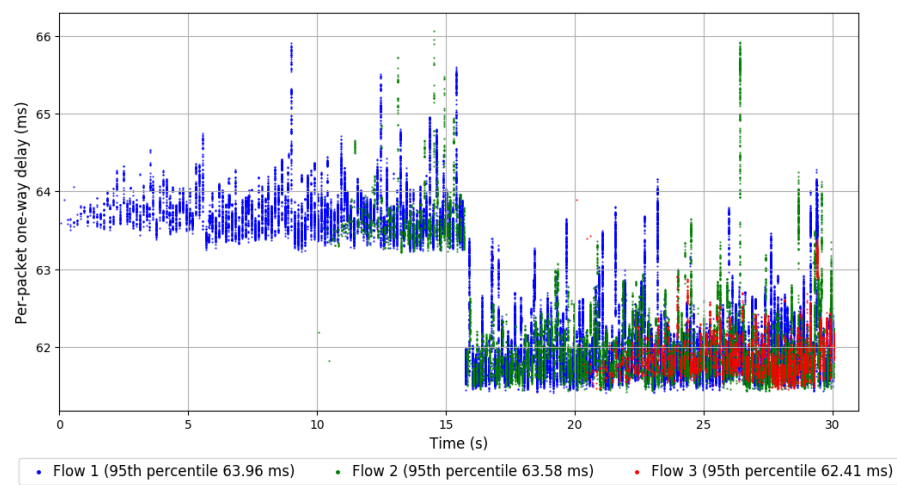
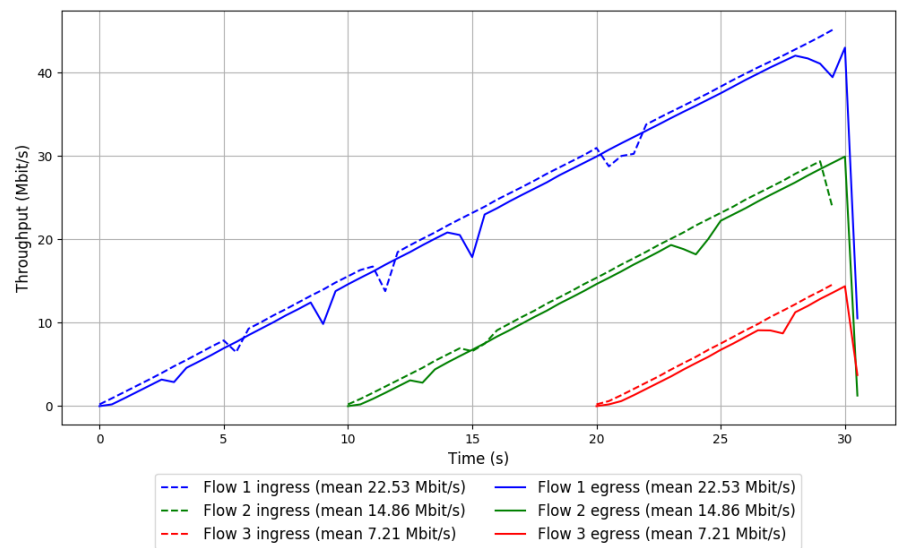


Run 10: Statistics of LEDBAT

Start at: 2018-06-19 14:22:12  
End at: 2018-06-19 14:22:42  
Local clock offset: -0.058 ms  
Remote clock offset: -0.183 ms

# Below is generated by plot.py at 2018-06-19 16:00:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 34.80 Mbit/s  
95th percentile per-packet one-way delay: 63.880 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 22.53 Mbit/s  
95th percentile per-packet one-way delay: 63.959 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 14.86 Mbit/s  
95th percentile per-packet one-way delay: 63.582 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 7.21 Mbit/s  
95th percentile per-packet one-way delay: 62.410 ms  
Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link



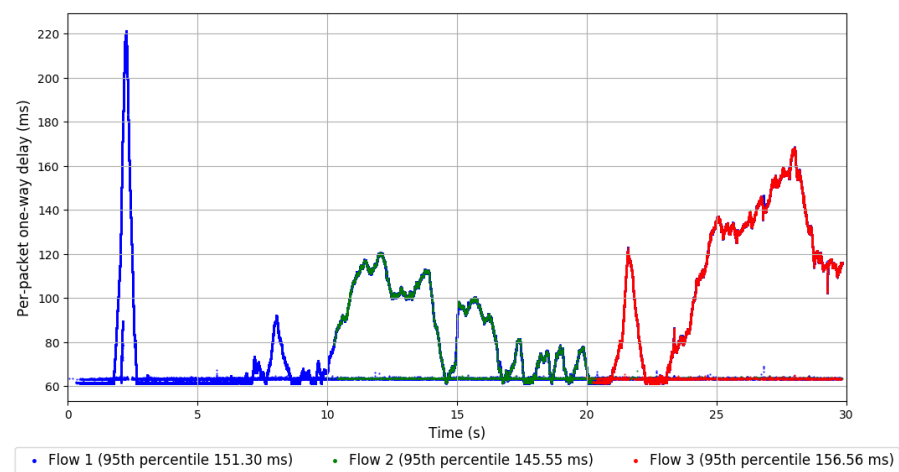
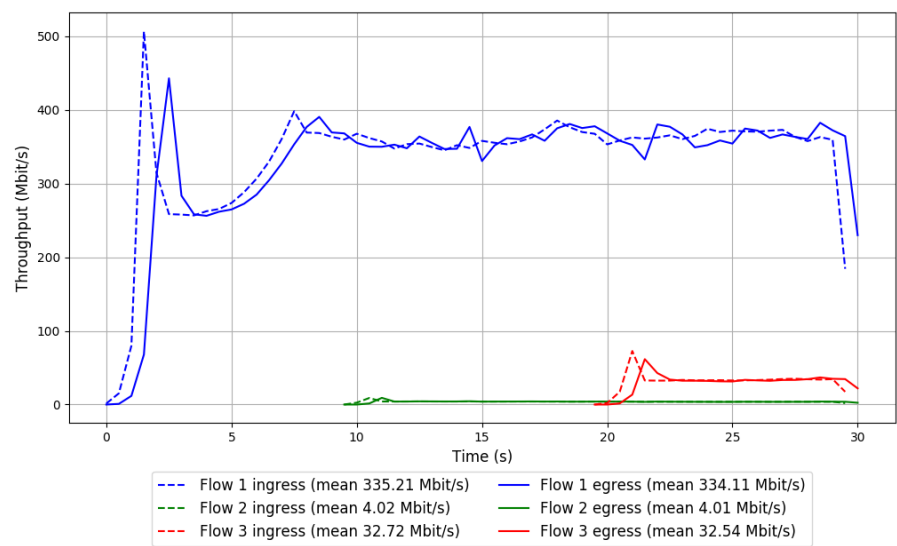
Run 1: Statistics of PCC-Allegro

Start at: 2018-06-19 11:04:23  
End at: 2018-06-19 11:04:53  
Local clock offset: -0.31 ms  
Remote clock offset: -0.285 ms

# Below is generated by plot.py at 2018-06-19 16:00:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 347.55 Mbit/s  
95th percentile per-packet one-way delay: 151.725 ms  
Loss rate: 0.33%  
-- Flow 1:  
Average throughput: 334.11 Mbit/s  
95th percentile per-packet one-way delay: 151.301 ms  
Loss rate: 0.32%  
-- Flow 2:  
Average throughput: 4.01 Mbit/s  
95th percentile per-packet one-way delay: 145.549 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 32.54 Mbit/s  
95th percentile per-packet one-way delay: 156.557 ms  
Loss rate: 0.54%



Run 1: Report of PCC-Allegro — Data Link

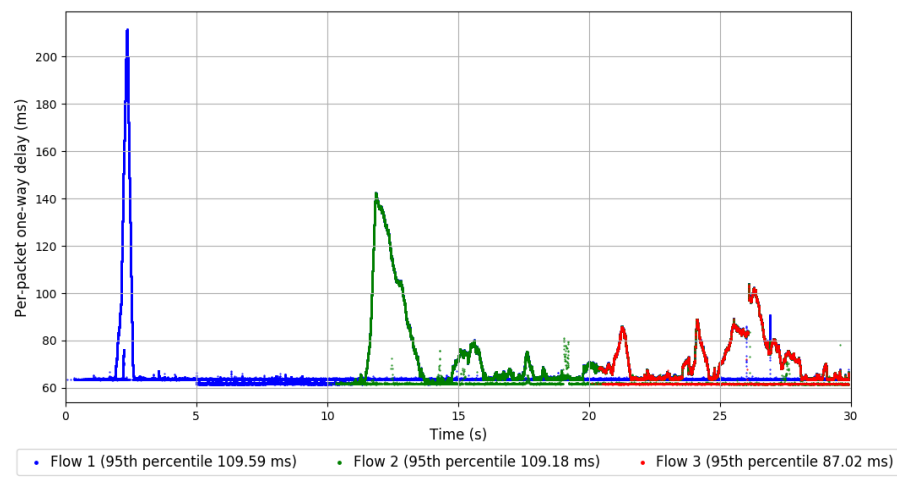
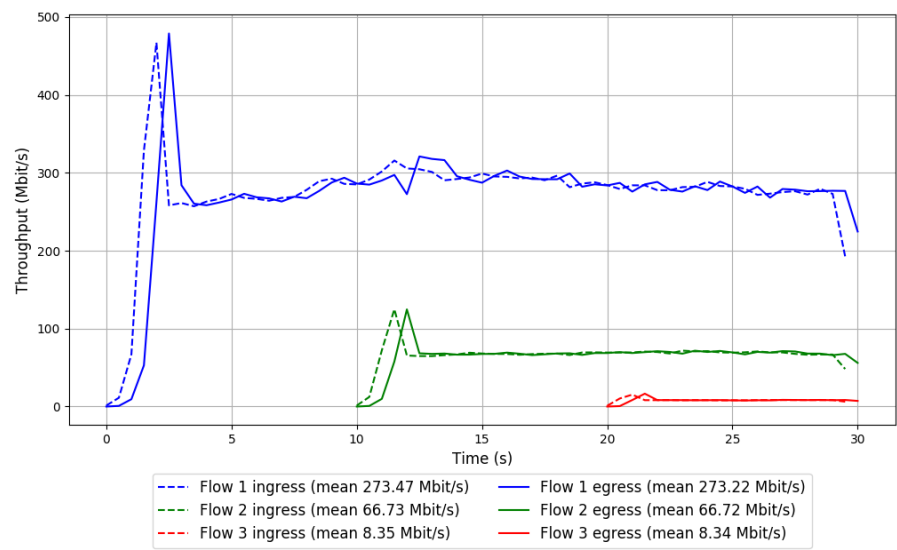


Run 2: Statistics of PCC-Allegro

Start at: 2018-06-19 11:26:53  
End at: 2018-06-19 11:27:23  
Local clock offset: -0.301 ms  
Remote clock offset: -0.227 ms

# Below is generated by plot.py at 2018-06-19 16:00:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 320.32 Mbit/s  
95th percentile per-packet one-way delay: 109.143 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 273.22 Mbit/s  
95th percentile per-packet one-way delay: 109.592 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 66.72 Mbit/s  
95th percentile per-packet one-way delay: 109.184 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 8.34 Mbit/s  
95th percentile per-packet one-way delay: 87.020 ms  
Loss rate: 0.04%

Run 2: Report of PCC-Allegro — Data Link

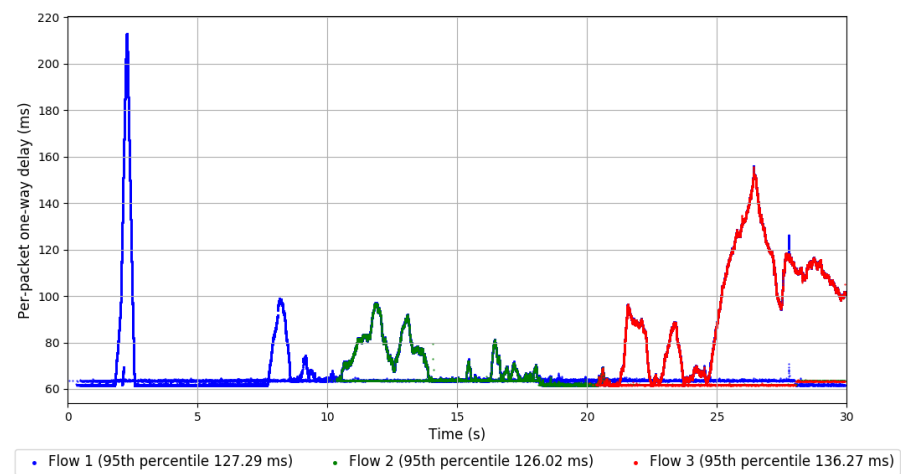
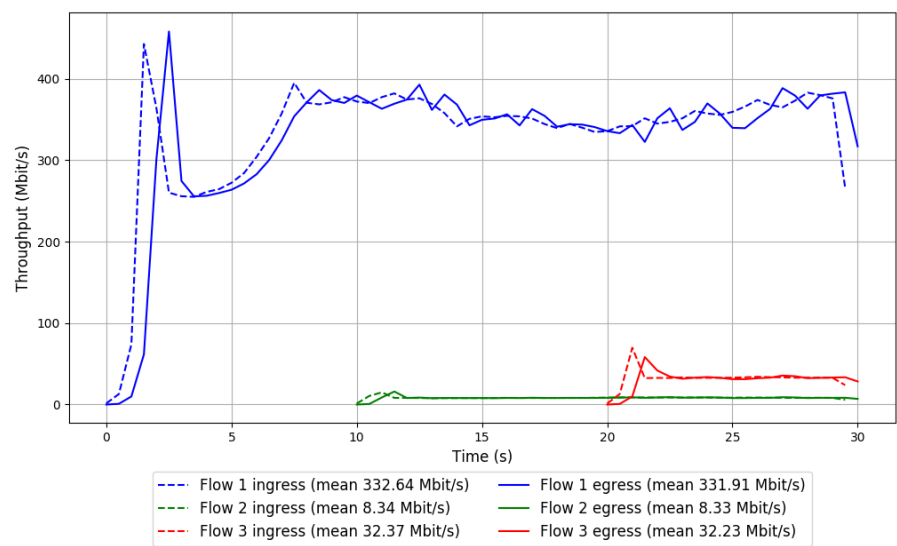


Run 3: Statistics of PCC-Allegro

Start at: 2018-06-19 11:49:20  
End at: 2018-06-19 11:49:50  
Local clock offset: 0.0 ms  
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2018-06-19 16:00:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 348.02 Mbit/s  
95th percentile per-packet one-way delay: 127.956 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 331.91 Mbit/s  
95th percentile per-packet one-way delay: 127.286 ms  
Loss rate: 0.22%  
-- Flow 2:  
Average throughput: 8.33 Mbit/s  
95th percentile per-packet one-way delay: 126.017 ms  
Loss rate: 0.17%  
-- Flow 3:  
Average throughput: 32.23 Mbit/s  
95th percentile per-packet one-way delay: 136.268 ms  
Loss rate: 0.37%

Run 3: Report of PCC-Allegro — Data Link

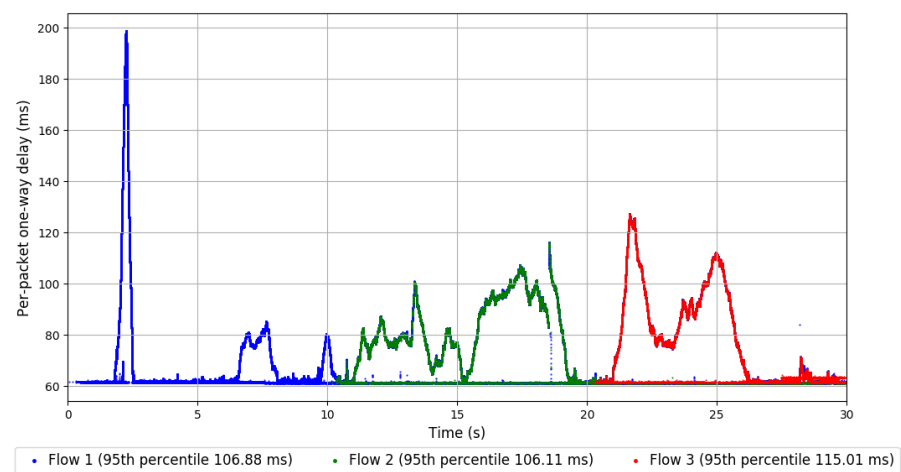
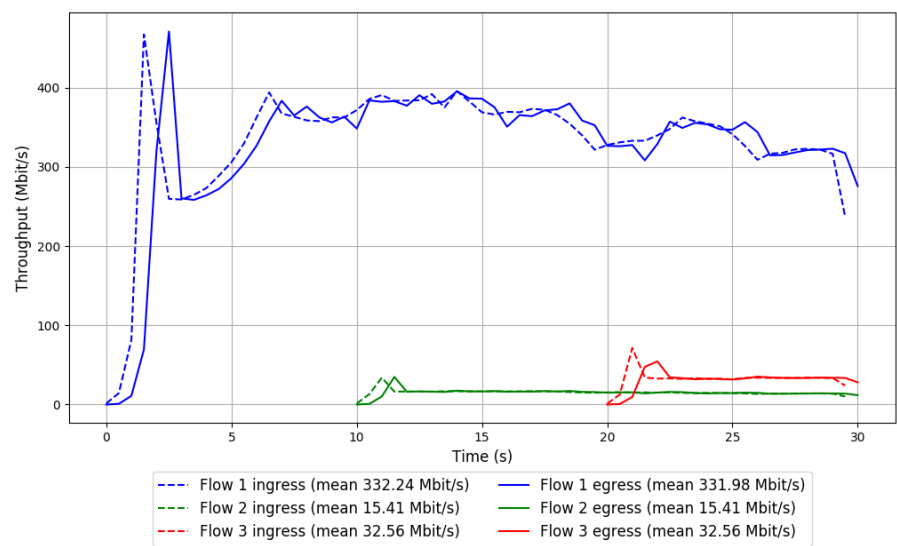


Run 4: Statistics of PCC-Allegro

Start at: 2018-06-19 12:12:00  
End at: 2018-06-19 12:12:30  
Local clock offset: 0.232 ms  
Remote clock offset: -0.207 ms

# Below is generated by plot.py at 2018-06-19 16:00:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 352.95 Mbit/s  
95th percentile per-packet one-way delay: 107.262 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 331.98 Mbit/s  
95th percentile per-packet one-way delay: 106.875 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 15.41 Mbit/s  
95th percentile per-packet one-way delay: 106.112 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 32.56 Mbit/s  
95th percentile per-packet one-way delay: 115.009 ms  
Loss rate: 0.00%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-06-19 12:34:37

End at: 2018-06-19 12:35:07

Local clock offset: -0.055 ms

Remote clock offset: 0.205 ms

# Below is generated by plot.py at 2018-06-19 16:00:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 347.18 Mbit/s

95th percentile per-packet one-way delay: 176.207 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 321.60 Mbit/s

95th percentile per-packet one-way delay: 176.089 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 30.69 Mbit/s

95th percentile per-packet one-way delay: 176.605 ms

Loss rate: 0.66%

-- Flow 3:

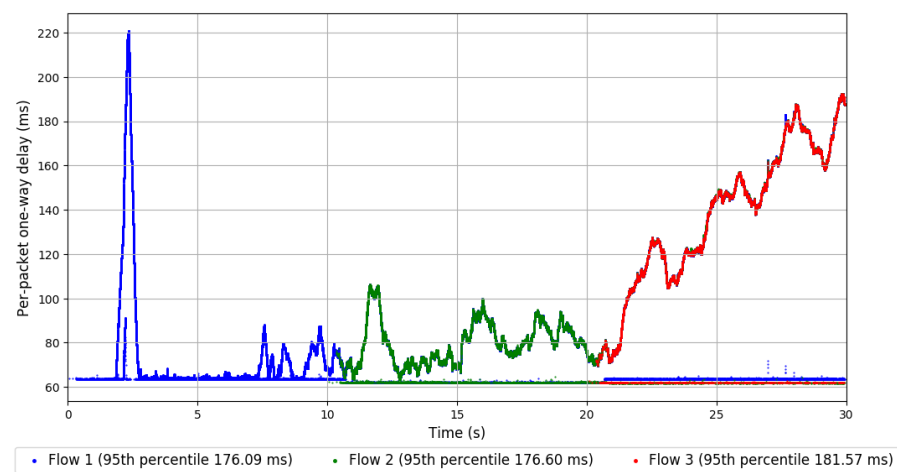
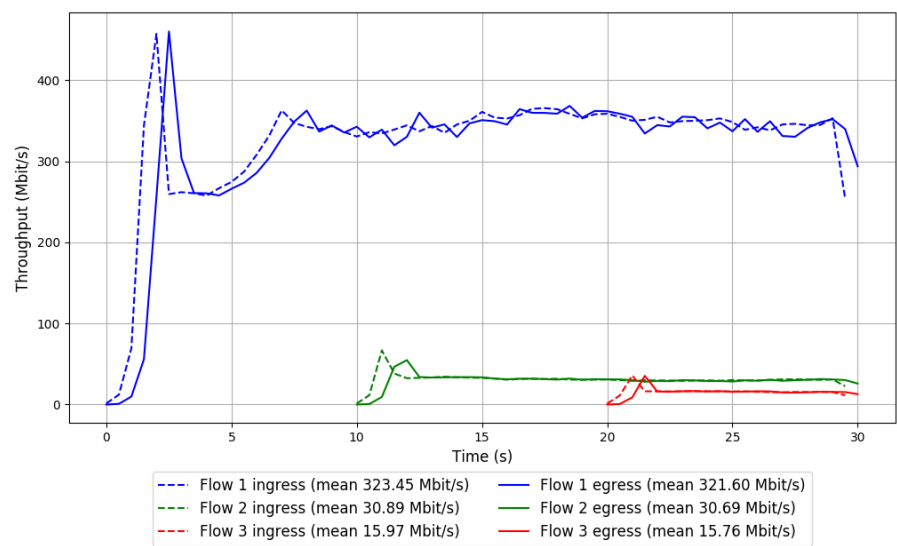
Average throughput: 15.76 Mbit/s

95th percentile per-packet one-way delay: 181.572 ms

Loss rate: 1.24%



Run 5: Report of PCC-Allegro — Data Link

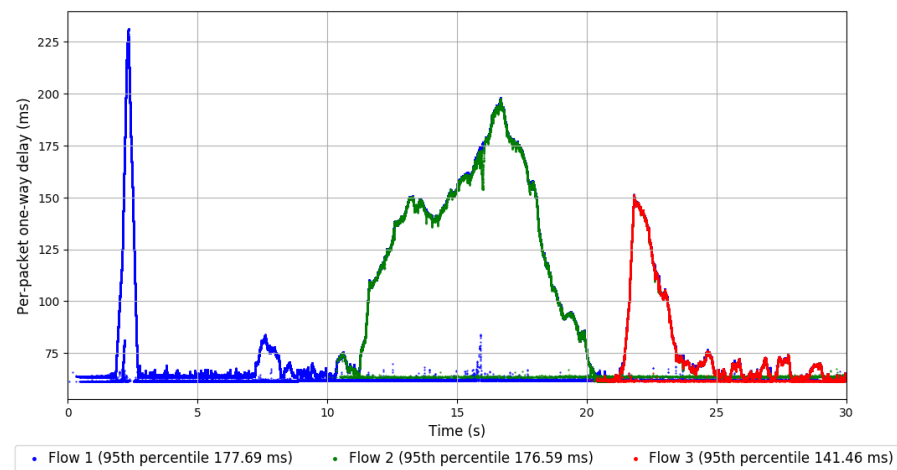
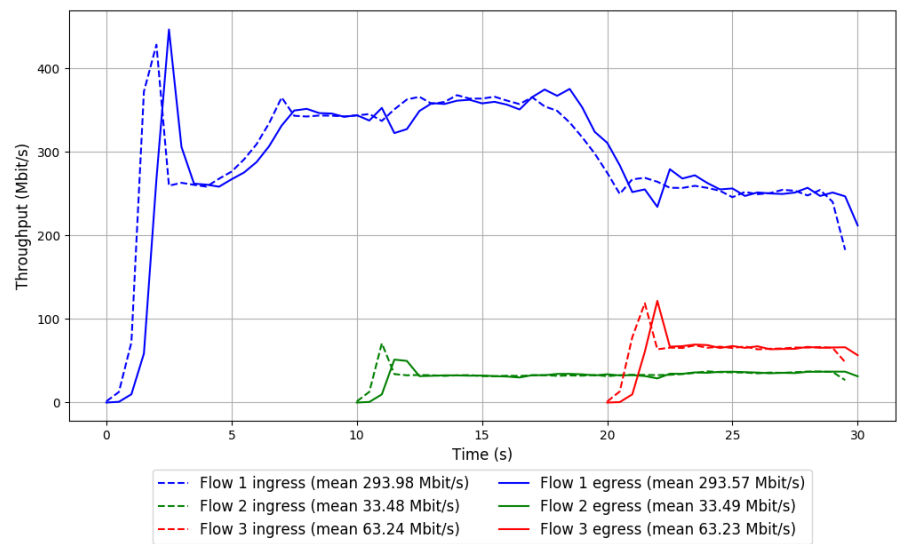


Run 6: Statistics of PCC-Allegro

Start at: 2018-06-19 12:57:09  
End at: 2018-06-19 12:57:39  
Local clock offset: 0.14 ms  
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2018-06-19 16:00:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 336.66 Mbit/s  
95th percentile per-packet one-way delay: 176.970 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 293.57 Mbit/s  
95th percentile per-packet one-way delay: 177.695 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 33.49 Mbit/s  
95th percentile per-packet one-way delay: 176.594 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 63.23 Mbit/s  
95th percentile per-packet one-way delay: 141.456 ms  
Loss rate: 0.01%

Run 6: Report of PCC-Allegro — Data Link

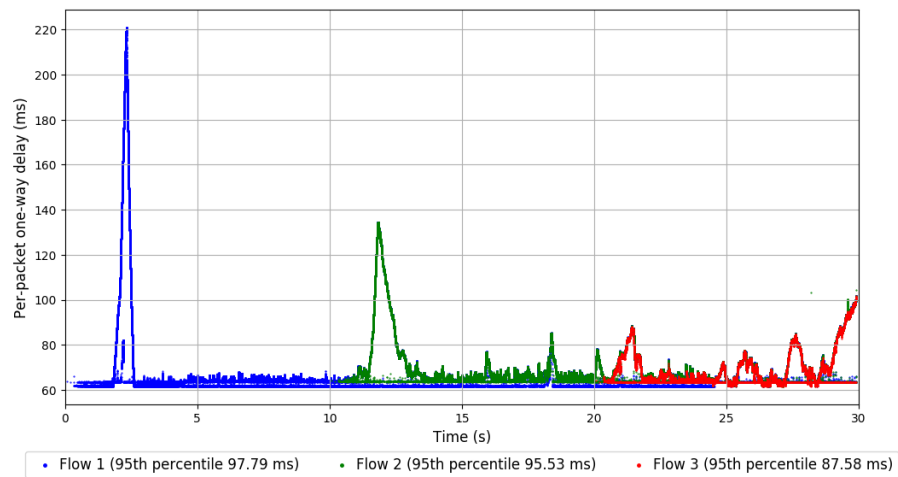
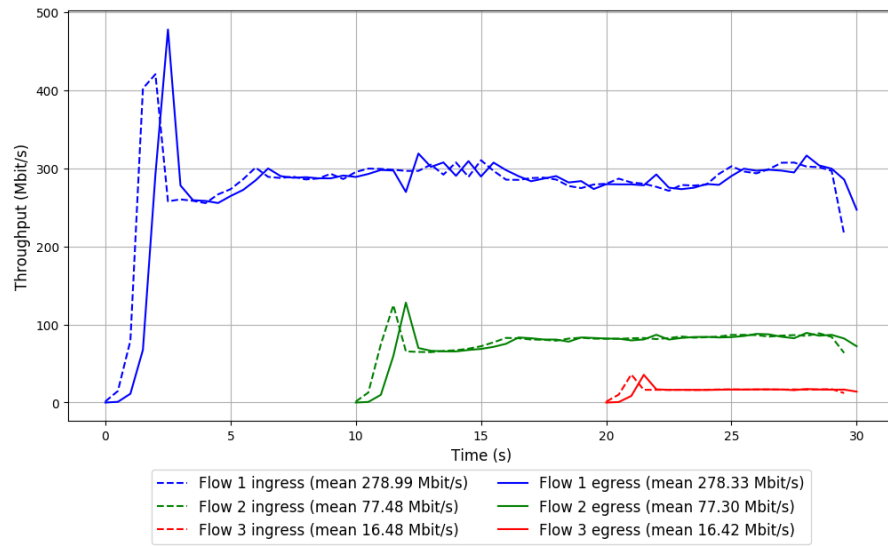


Run 7: Statistics of PCC-Allegro

Start at: 2018-06-19 13:19:43  
End at: 2018-06-19 13:20:13  
Local clock offset: 0.289 ms  
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2018-06-19 16:00:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 335.11 Mbit/s  
95th percentile per-packet one-way delay: 96.775 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 278.33 Mbit/s  
95th percentile per-packet one-way delay: 97.789 ms  
Loss rate: 0.23%  
-- Flow 2:  
Average throughput: 77.30 Mbit/s  
95th percentile per-packet one-way delay: 95.527 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 16.42 Mbit/s  
95th percentile per-packet one-way delay: 87.581 ms  
Loss rate: 0.38%

# Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-06-19 13:42:18

End at: 2018-06-19 13:42:48

Local clock offset: 0.017 ms

Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2018-06-19 16:00:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 352.25 Mbit/s

95th percentile per-packet one-way delay: 174.504 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 337.75 Mbit/s

95th percentile per-packet one-way delay: 174.363 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 17.65 Mbit/s

95th percentile per-packet one-way delay: 175.873 ms

Loss rate: 0.85%

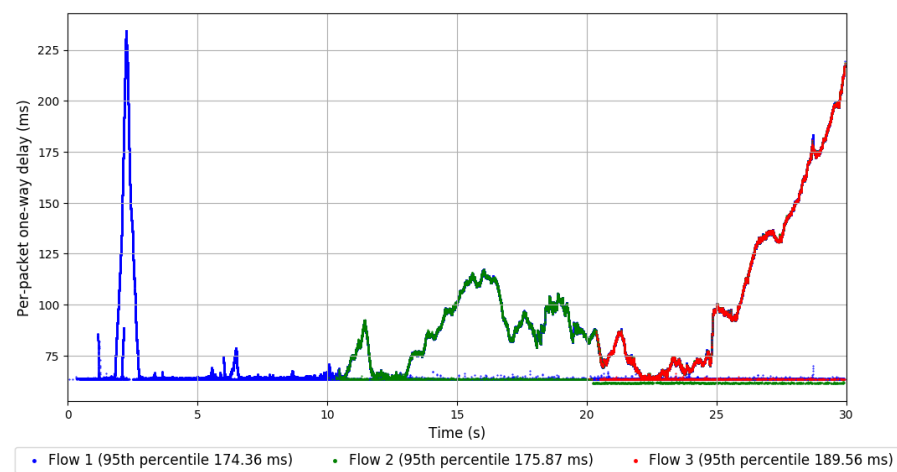
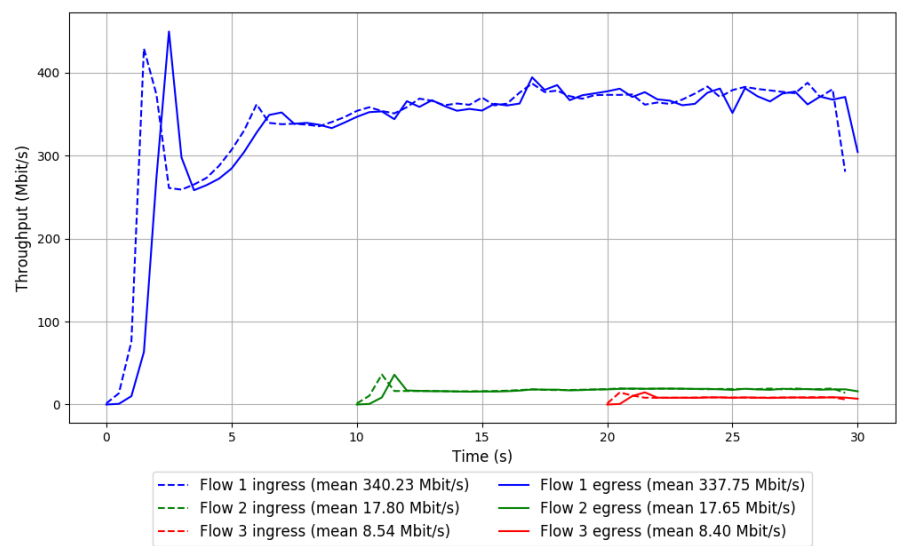
-- Flow 3:

Average throughput: 8.40 Mbit/s

95th percentile per-packet one-way delay: 189.561 ms

Loss rate: 1.63%

Run 8: Report of PCC-Allegro — Data Link



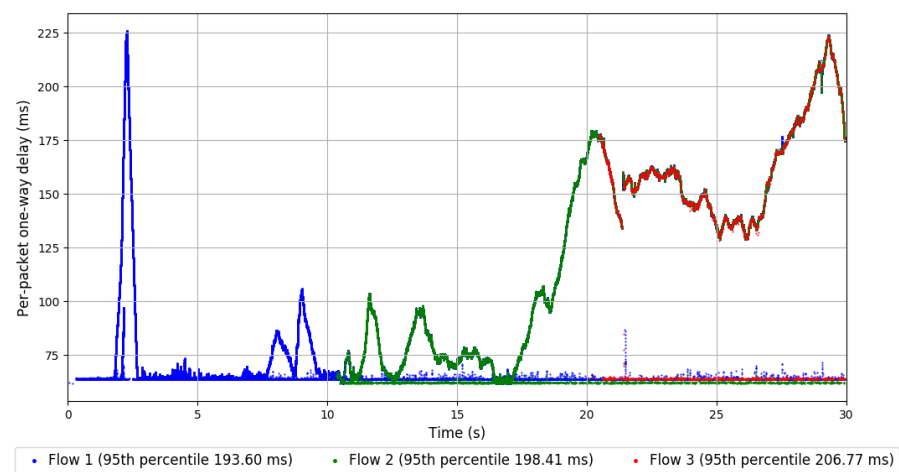
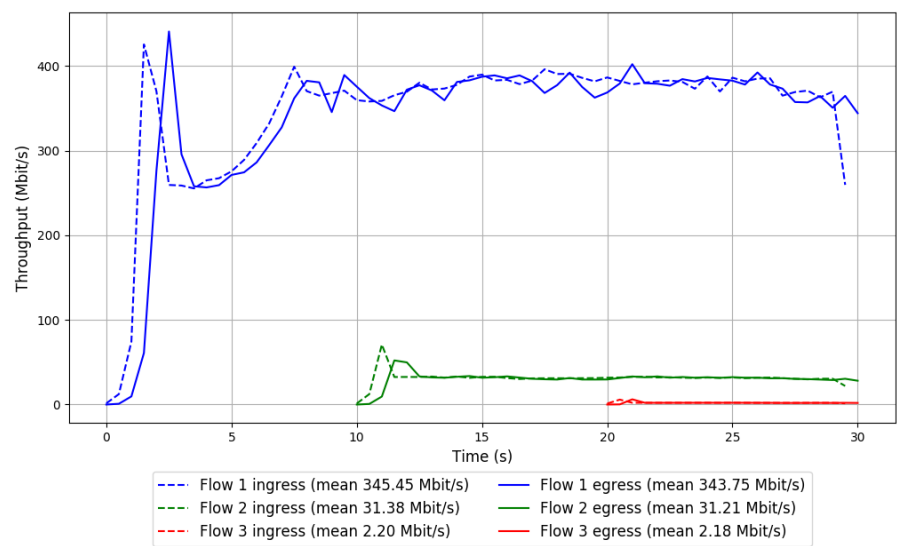
Run 9: Statistics of PCC-Allegro

Start at: 2018-06-19 14:04:58  
End at: 2018-06-19 14:05:28  
Local clock offset: -0.053 ms  
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2018-06-19 16:00:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 365.19 Mbit/s  
95th percentile per-packet one-way delay: 193.843 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 343.75 Mbit/s  
95th percentile per-packet one-way delay: 193.598 ms  
Loss rate: 0.49%  
-- Flow 2:  
Average throughput: 31.21 Mbit/s  
95th percentile per-packet one-way delay: 198.410 ms  
Loss rate: 0.54%  
-- Flow 3:  
Average throughput: 2.18 Mbit/s  
95th percentile per-packet one-way delay: 206.769 ms  
Loss rate: 1.00%



Run 9: Report of PCC-Allegro — Data Link

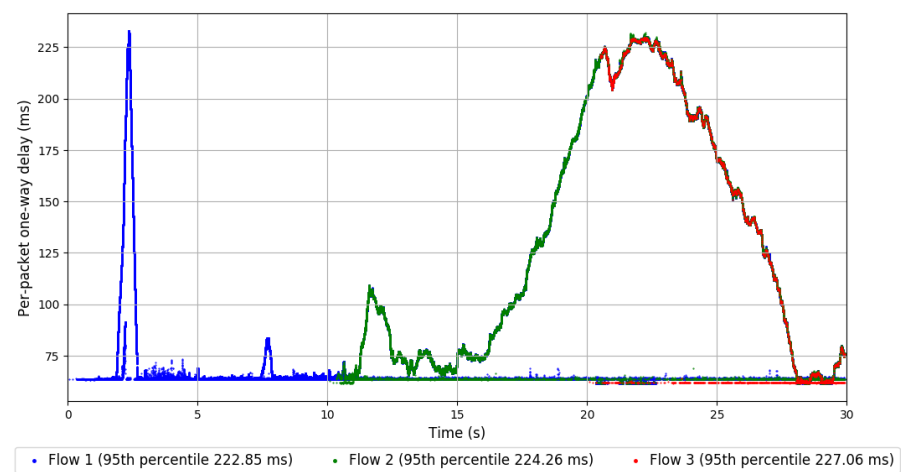
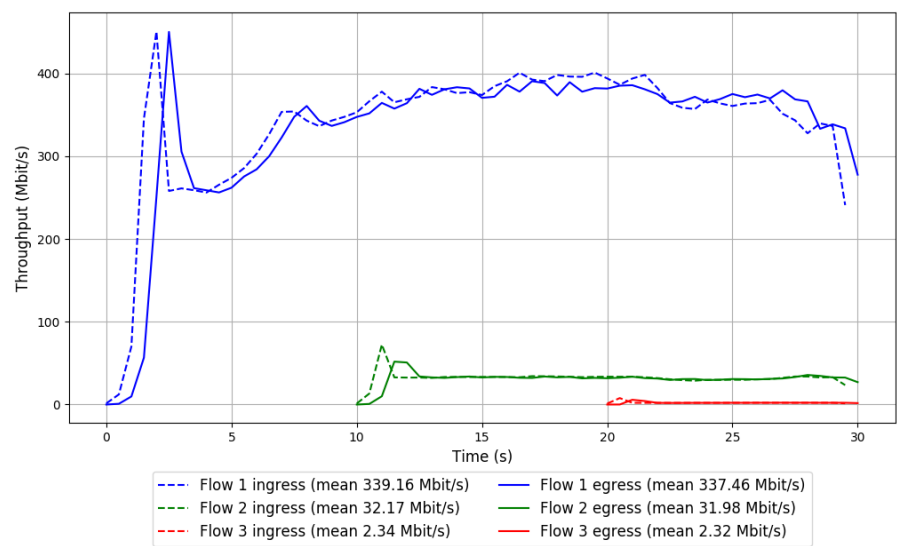


Run 10: Statistics of PCC-Allegro

Start at: 2018-06-19 14:27:27  
End at: 2018-06-19 14:27:57  
Local clock offset: -0.03 ms  
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2018-06-19 16:00:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 359.47 Mbit/s  
95th percentile per-packet one-way delay: 222.968 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 337.46 Mbit/s  
95th percentile per-packet one-way delay: 222.851 ms  
Loss rate: 0.50%  
-- Flow 2:  
Average throughput: 31.98 Mbit/s  
95th percentile per-packet one-way delay: 224.263 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 2.32 Mbit/s  
95th percentile per-packet one-way delay: 227.065 ms  
Loss rate: 0.78%

Run 10: Report of PCC-Allegro — Data Link

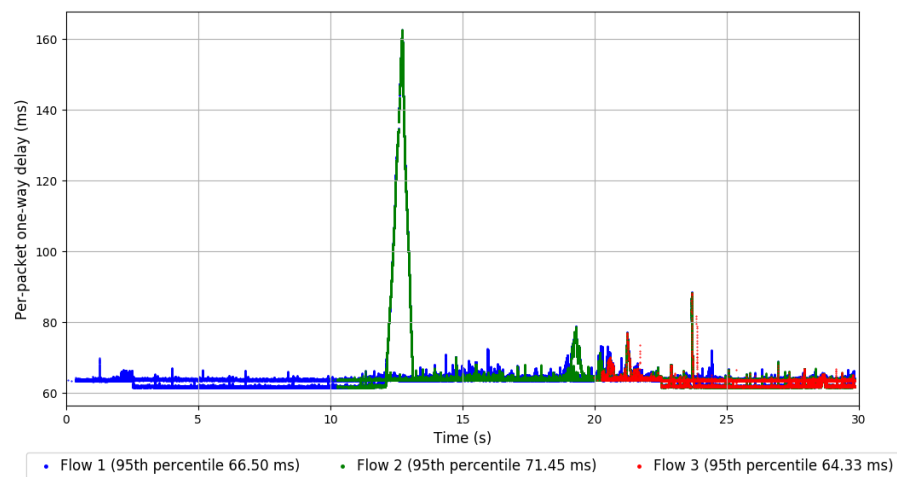
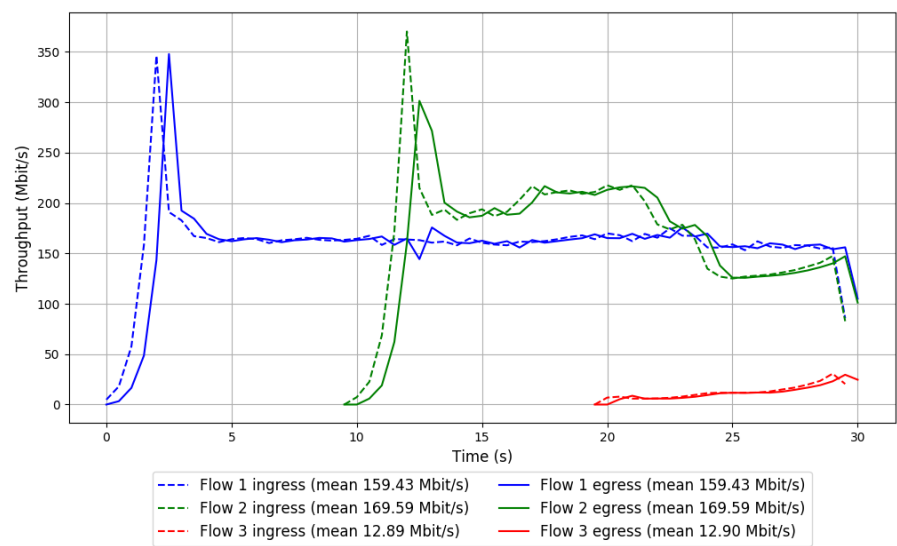


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-19 10:44:55
End at: 2018-06-19 10:45:25
Local clock offset: -0.282 ms
Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2018-06-19 16:01:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 276.92 Mbit/s
95th percentile per-packet one-way delay: 67.553 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 159.43 Mbit/s
95th percentile per-packet one-way delay: 66.498 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 169.59 Mbit/s
95th percentile per-packet one-way delay: 71.455 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.90 Mbit/s
95th percentile per-packet one-way delay: 64.335 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Expr — Data Link

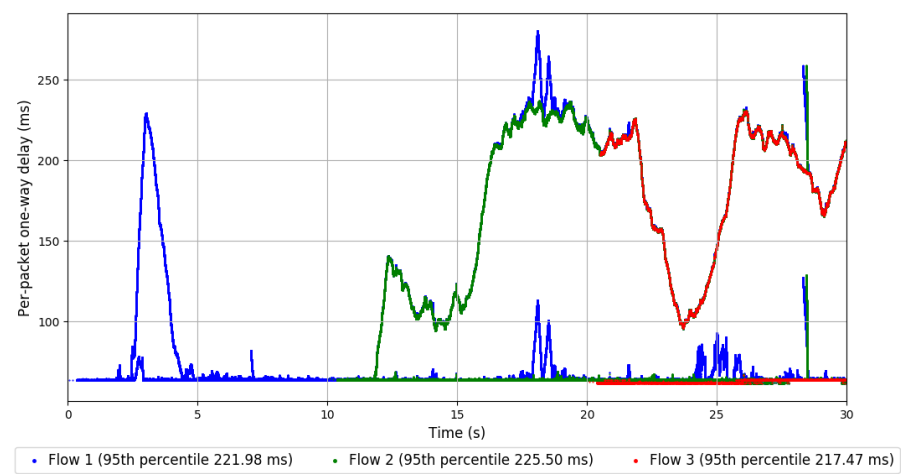
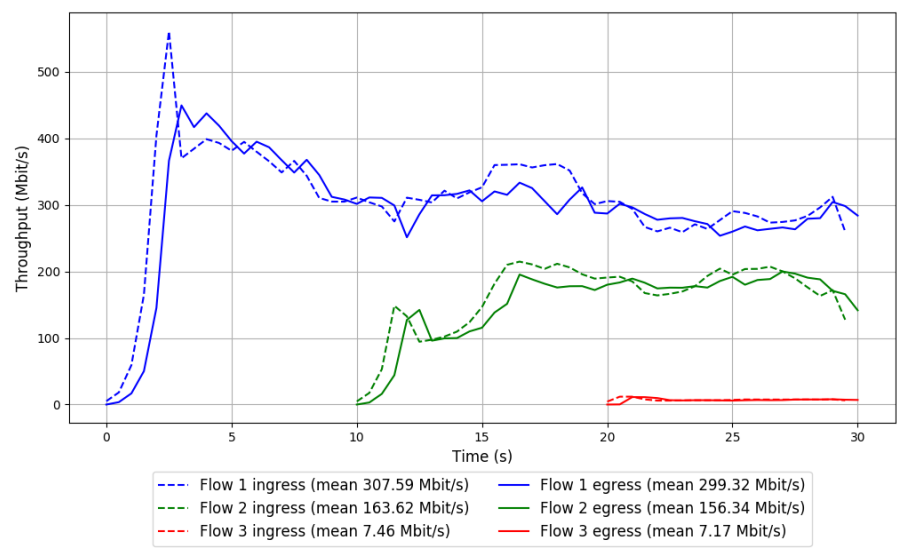


Run 2: Statistics of PCC-Expr

Start at: 2018-06-19 11:07:12  
End at: 2018-06-19 11:07:42  
Local clock offset: -0.309 ms  
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2018-06-19 16:09:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 405.65 Mbit/s  
95th percentile per-packet one-way delay: 223.474 ms  
Loss rate: 3.15%  
-- Flow 1:  
Average throughput: 299.32 Mbit/s  
95th percentile per-packet one-way delay: 221.983 ms  
Loss rate: 2.69%  
-- Flow 2:  
Average throughput: 156.34 Mbit/s  
95th percentile per-packet one-way delay: 225.500 ms  
Loss rate: 4.45%  
-- Flow 3:  
Average throughput: 7.17 Mbit/s  
95th percentile per-packet one-way delay: 217.471 ms  
Loss rate: 3.85%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-06-19 11:29:40

End at: 2018-06-19 11:30:10

Local clock offset: -0.319 ms

Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2018-06-19 16:09:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 284.47 Mbit/s

95th percentile per-packet one-way delay: 68.716 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 200.98 Mbit/s

95th percentile per-packet one-way delay: 67.754 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 116.85 Mbit/s

95th percentile per-packet one-way delay: 77.549 ms

Loss rate: 0.00%

-- Flow 3:

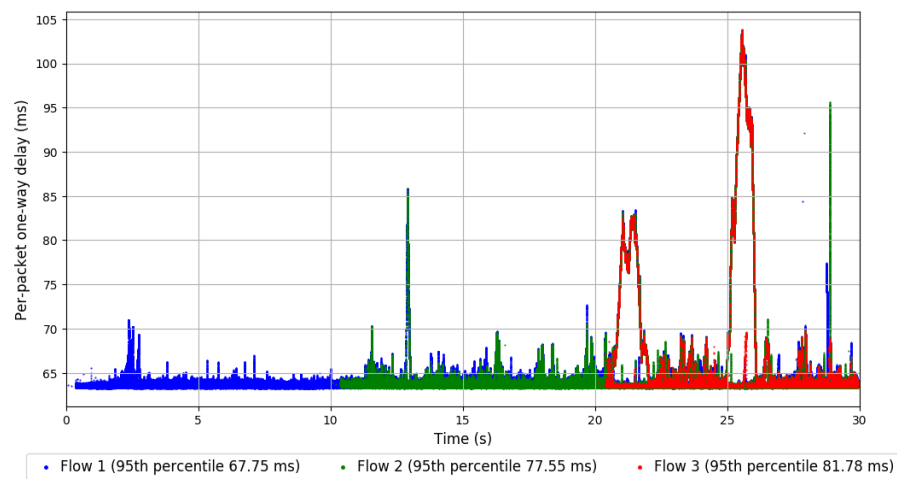
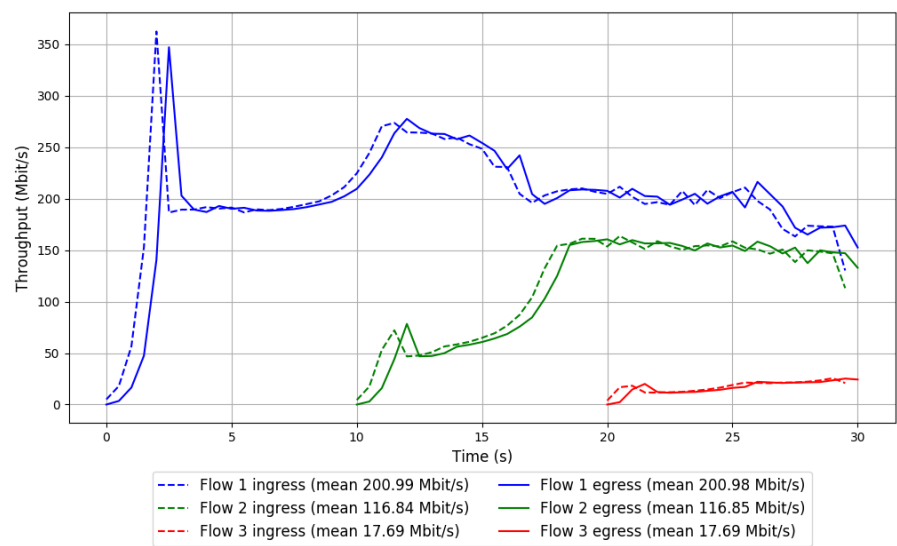
Average throughput: 17.69 Mbit/s

95th percentile per-packet one-way delay: 81.783 ms

Loss rate: 0.01%



Run 3: Report of PCC-Expr — Data Link

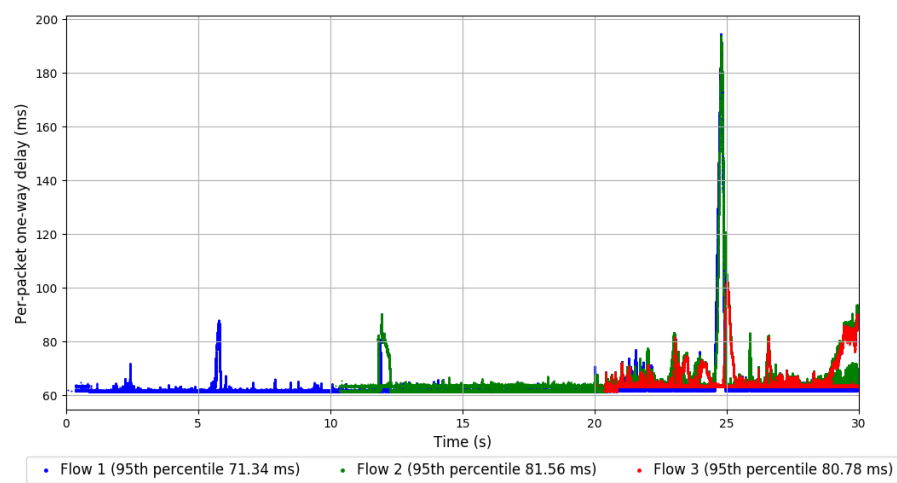
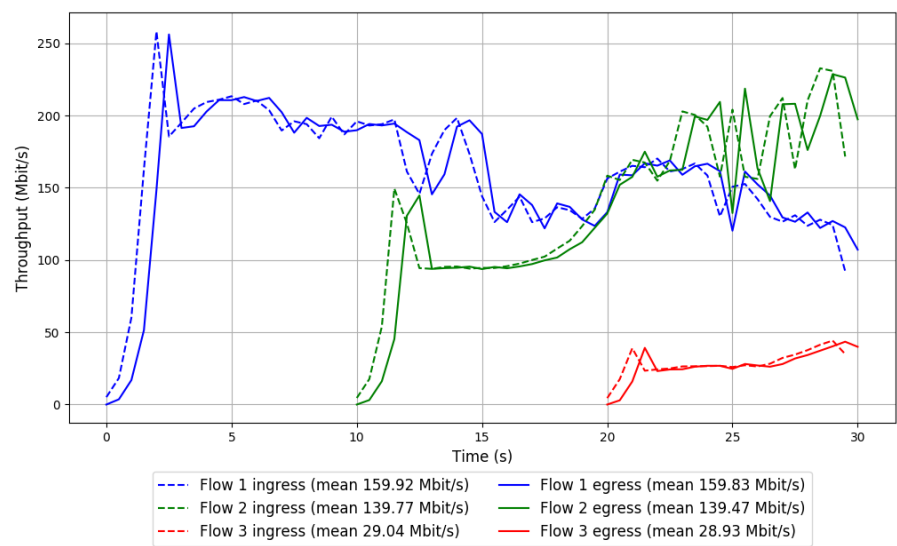


Run 4: Statistics of PCC-Expr

Start at: 2018-06-19 11:52:07  
End at: 2018-06-19 11:52:37  
Local clock offset: 0.068 ms  
Remote clock offset: -0.171 ms

# Below is generated by plot.py at 2018-06-19 16:09:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 262.08 Mbit/s  
95th percentile per-packet one-way delay: 75.460 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 159.83 Mbit/s  
95th percentile per-packet one-way delay: 71.336 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 139.47 Mbit/s  
95th percentile per-packet one-way delay: 81.565 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 28.93 Mbit/s  
95th percentile per-packet one-way delay: 80.785 ms  
Loss rate: 0.32%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-06-19 12:14:48

End at: 2018-06-19 12:15:18

Local clock offset: 0.142 ms

Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2018-06-19 16:09:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 286.94 Mbit/s

95th percentile per-packet one-way delay: 126.991 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 154.34 Mbit/s

95th percentile per-packet one-way delay: 107.787 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 183.02 Mbit/s

95th percentile per-packet one-way delay: 134.862 ms

Loss rate: 0.76%

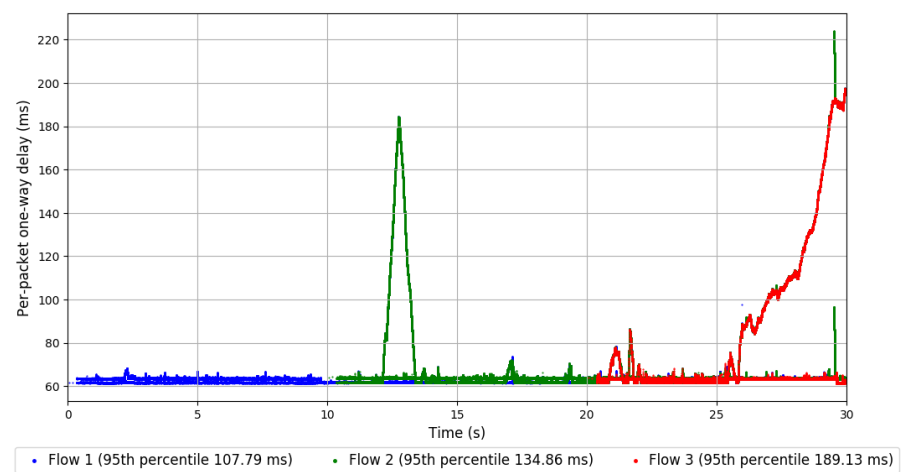
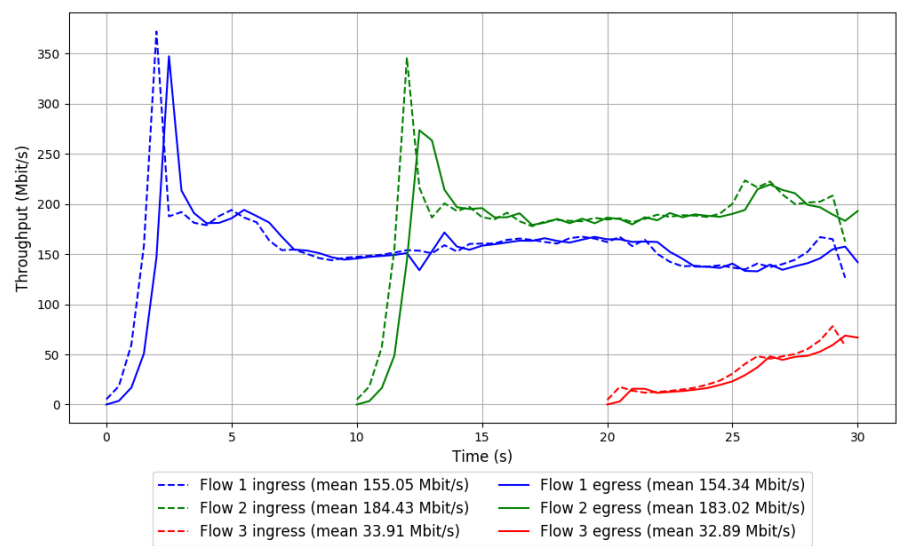
-- Flow 3:

Average throughput: 32.89 Mbit/s

95th percentile per-packet one-way delay: 189.126 ms

Loss rate: 3.02%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-06-19 12:37:26

End at: 2018-06-19 12:37:56

Local clock offset: -0.015 ms

Remote clock offset: 0.031 ms

# Below is generated by plot.py at 2018-06-19 16:09:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 279.63 Mbit/s

95th percentile per-packet one-way delay: 69.234 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 191.12 Mbit/s

95th percentile per-packet one-way delay: 67.267 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 104.82 Mbit/s

95th percentile per-packet one-way delay: 80.791 ms

Loss rate: 0.00%

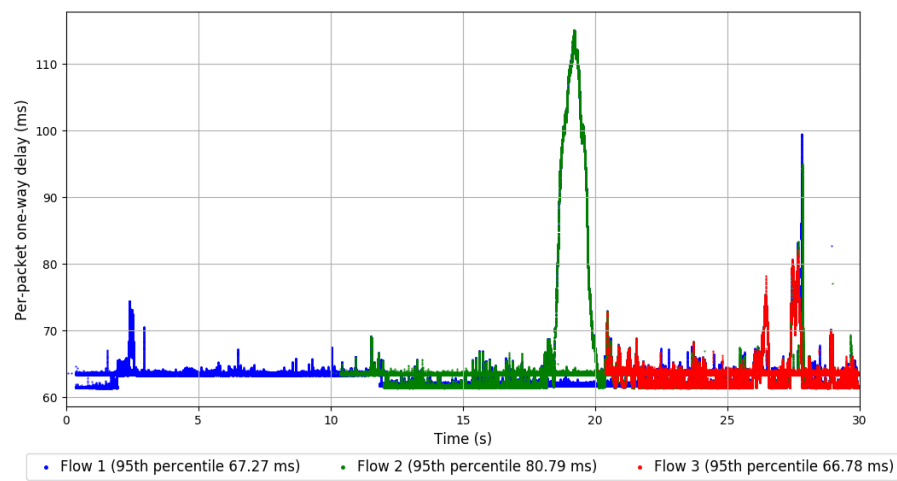
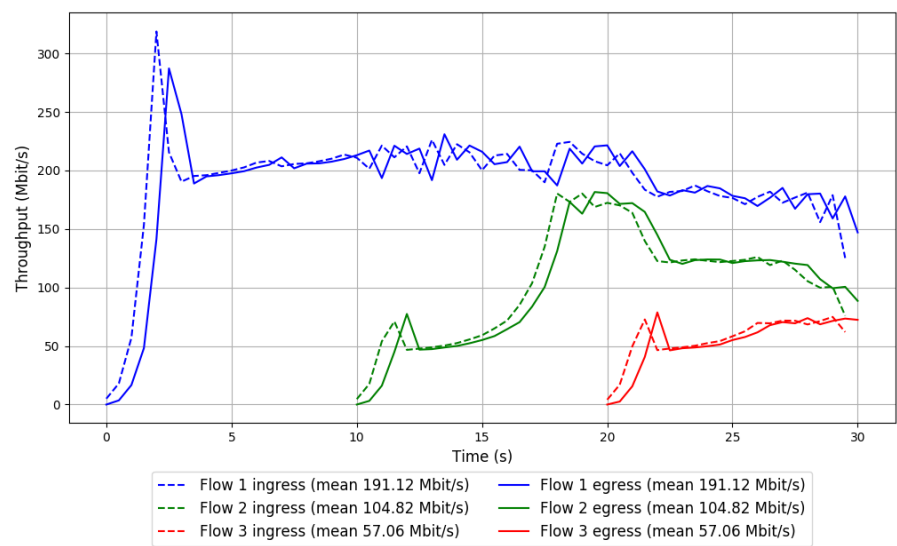
-- Flow 3:

Average throughput: 57.06 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-06-19 12:59:56

End at: 2018-06-19 13:00:26

Local clock offset: 0.22 ms

Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2018-06-19 16:09:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 232.18 Mbit/s

95th percentile per-packet one-way delay: 73.186 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 148.21 Mbit/s

95th percentile per-packet one-way delay: 77.011 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 100.42 Mbit/s

95th percentile per-packet one-way delay: 66.704 ms

Loss rate: 0.00%

-- Flow 3:

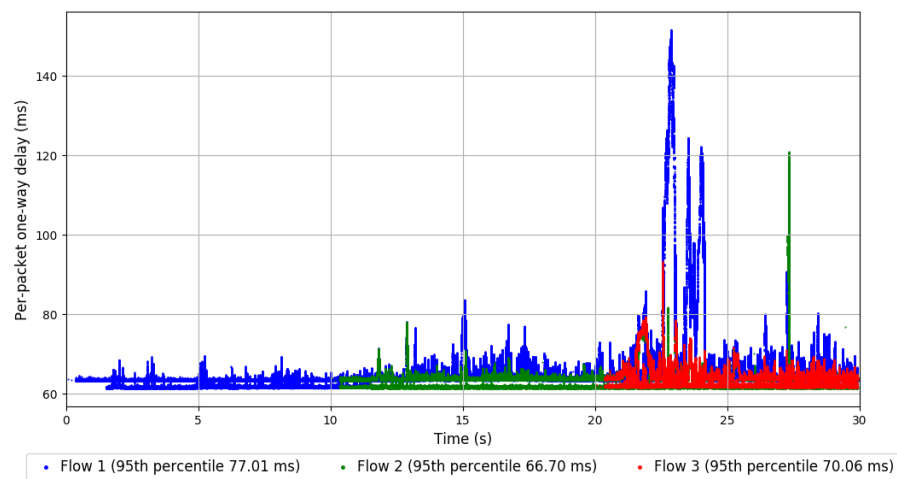
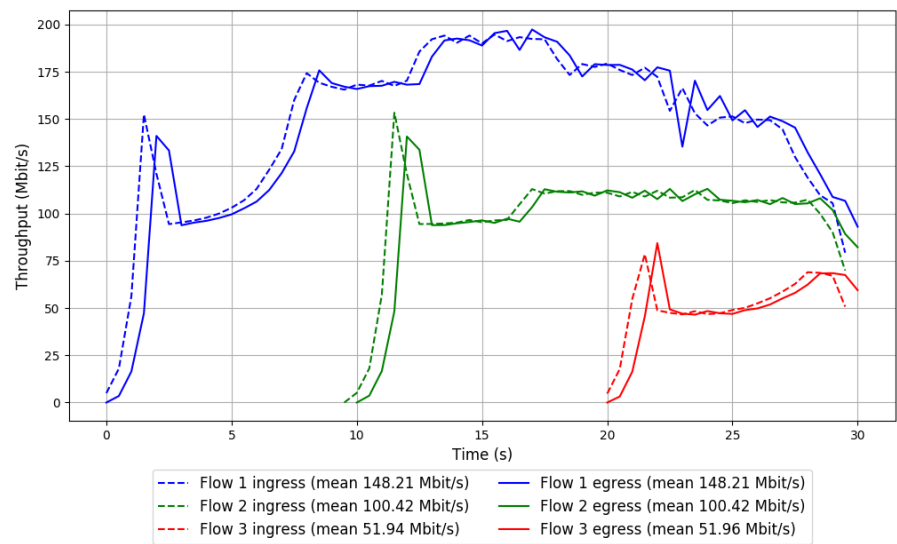
Average throughput: 51.96 Mbit/s

95th percentile per-packet one-way delay: 70.060 ms

Loss rate: 0.01%



Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-06-19 13:22:31

End at: 2018-06-19 13:23:01

Local clock offset: 0.23 ms

Remote clock offset: 0.031 ms

# Below is generated by plot.py at 2018-06-19 16:11:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 273.08 Mbit/s

95th percentile per-packet one-way delay: 85.682 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 192.02 Mbit/s

95th percentile per-packet one-way delay: 92.269 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 106.17 Mbit/s

95th percentile per-packet one-way delay: 70.605 ms

Loss rate: 0.00%

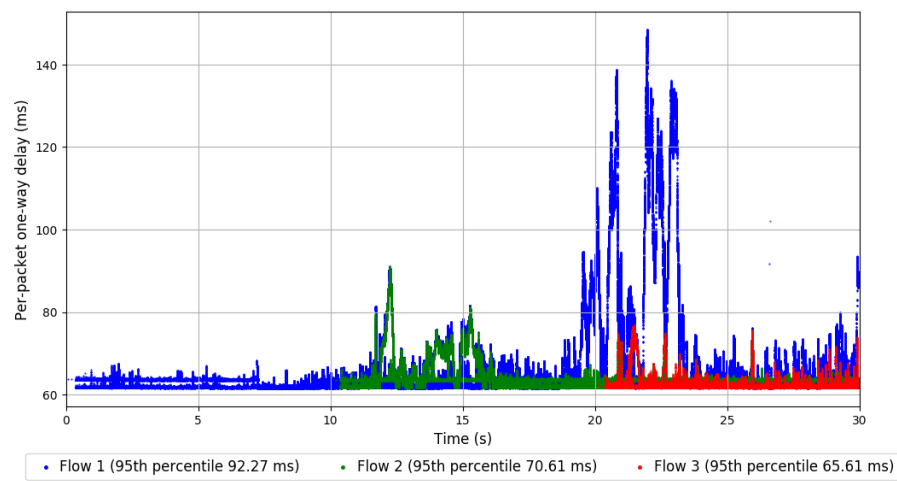
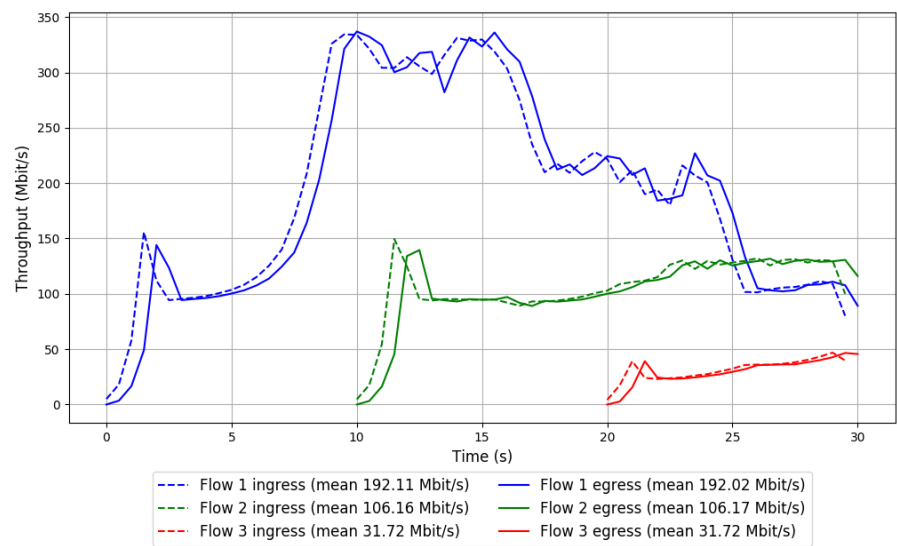
-- Flow 3:

Average throughput: 31.72 Mbit/s

95th percentile per-packet one-way delay: 65.609 ms

Loss rate: 0.00%

Run 8: Report of PCC-Expr — Data Link

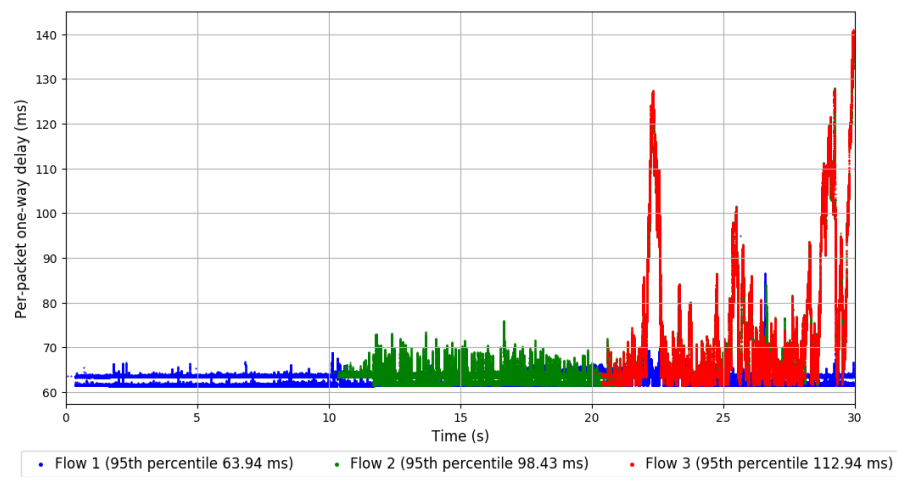
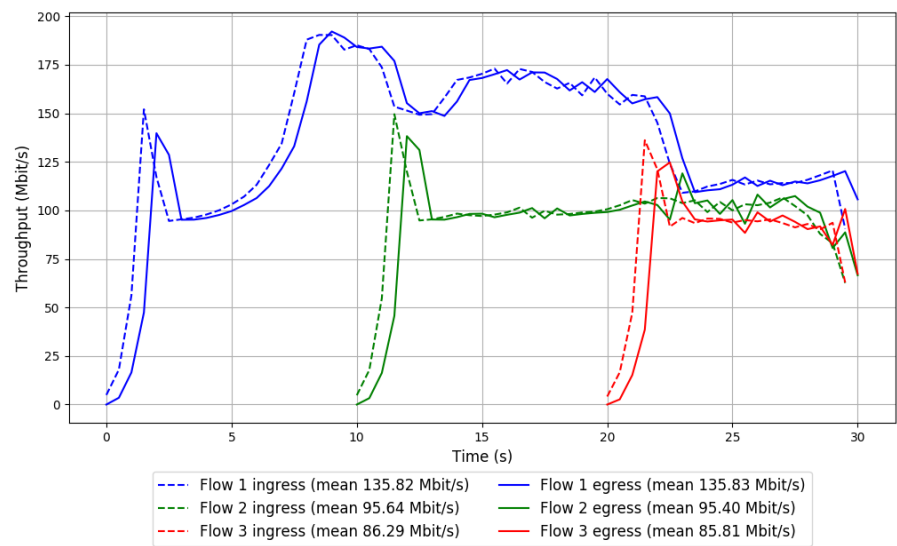


Run 9: Statistics of PCC-Expr

Start at: 2018-06-19 13:45:06  
End at: 2018-06-19 13:45:36  
Local clock offset: 0.034 ms  
Remote clock offset: -0.143 ms

# Below is generated by plot.py at 2018-06-19 16:11:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 227.57 Mbit/s  
95th percentile per-packet one-way delay: 83.192 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 135.83 Mbit/s  
95th percentile per-packet one-way delay: 63.938 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 95.40 Mbit/s  
95th percentile per-packet one-way delay: 98.432 ms  
Loss rate: 0.26%  
-- Flow 3:  
Average throughput: 85.81 Mbit/s  
95th percentile per-packet one-way delay: 112.942 ms  
Loss rate: 0.57%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-06-19 14:07:46

End at: 2018-06-19 14:08:16

Local clock offset: -0.001 ms

Remote clock offset: -0.25 ms

# Below is generated by plot.py at 2018-06-19 16:17:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 274.36 Mbit/s

95th percentile per-packet one-way delay: 75.010 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 181.67 Mbit/s

95th percentile per-packet one-way delay: 68.446 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 97.31 Mbit/s

95th percentile per-packet one-way delay: 76.717 ms

Loss rate: 0.08%

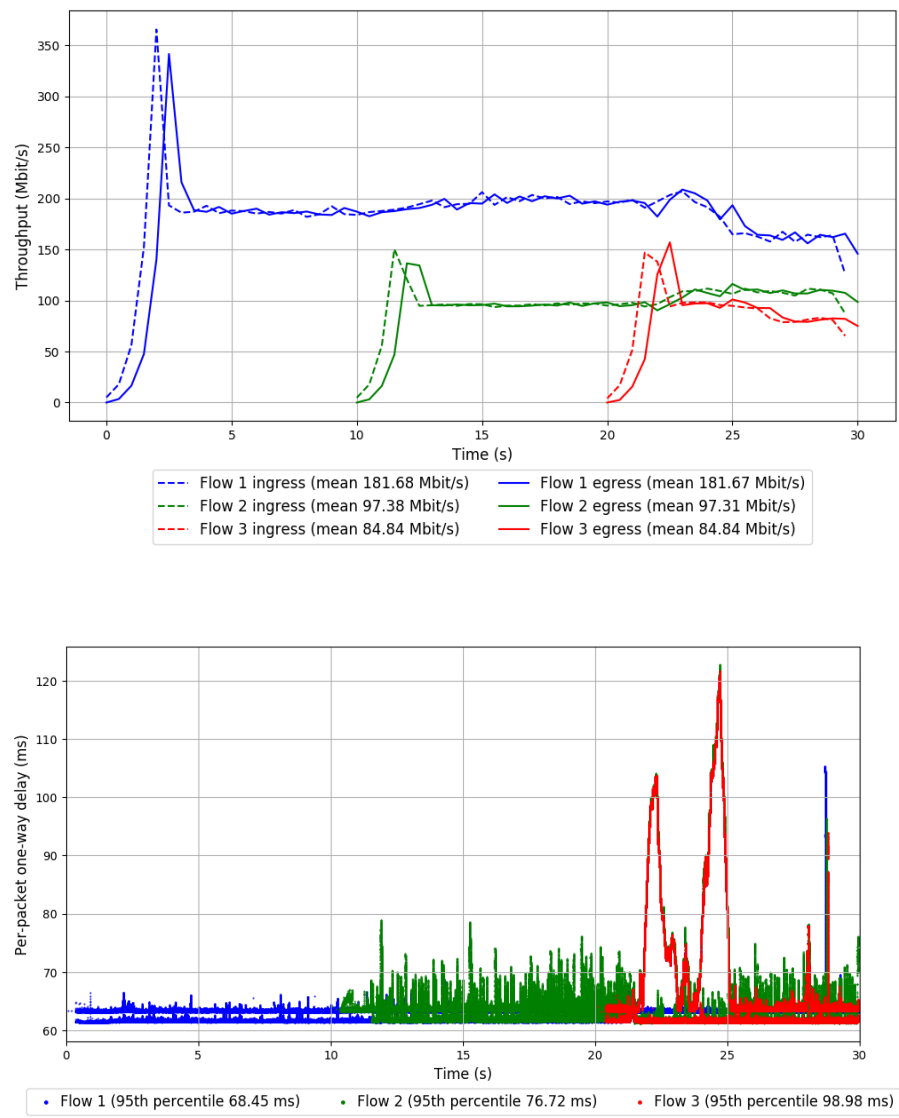
-- Flow 3:

Average throughput: 84.84 Mbit/s

95th percentile per-packet one-way delay: 98.977 ms

Loss rate: 0.01%

Run 10: Report of PCC-Expr — Data Link



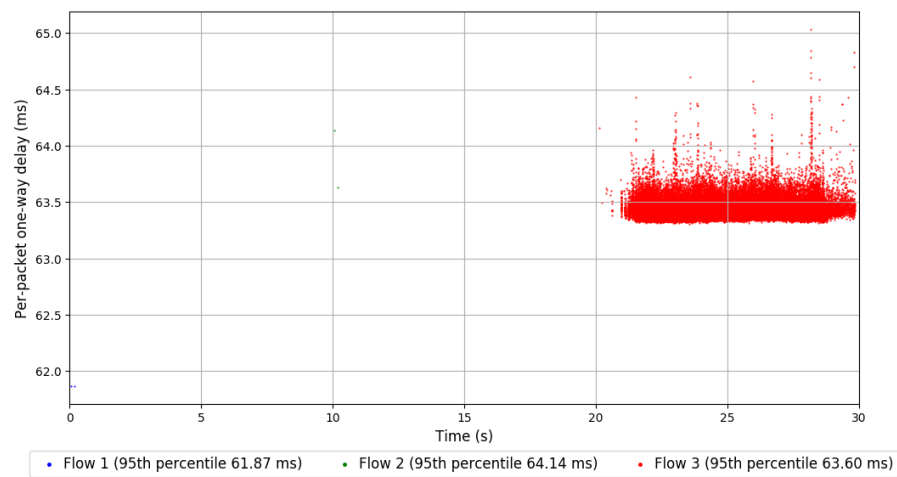
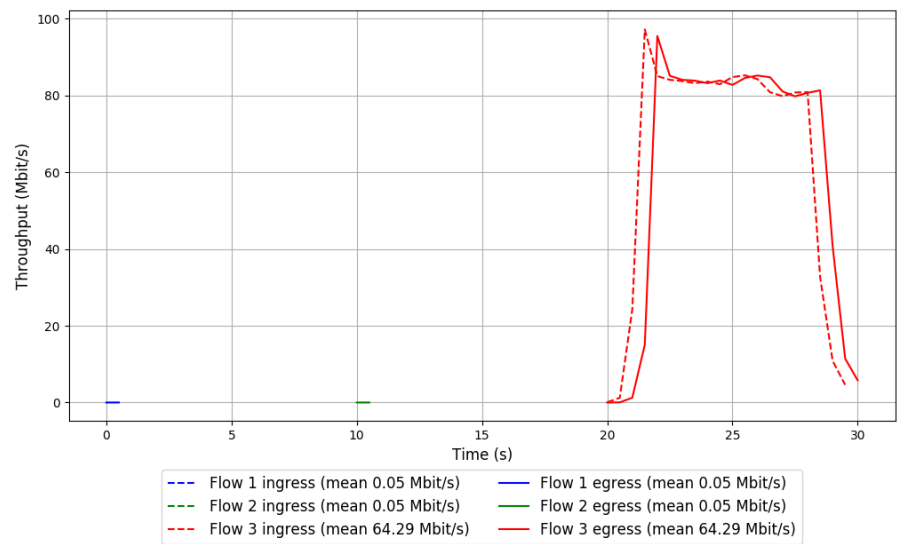
Run 1: Statistics of QUIC Cubic

Start at: 2018-06-19 10:56:43  
End at: 2018-06-19 10:57:13  
Local clock offset: -0.286 ms  
Remote clock offset: -0.148 ms

# Below is generated by plot.py at 2018-06-19 16:17:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 20.99 Mbit/s  
95th percentile per-packet one-way delay: 63.601 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 61.869 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 64.137 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 64.29 Mbit/s  
95th percentile per-packet one-way delay: 63.601 ms  
Loss rate: 0.00%



Run 1: Report of QUIC Cubic — Data Link

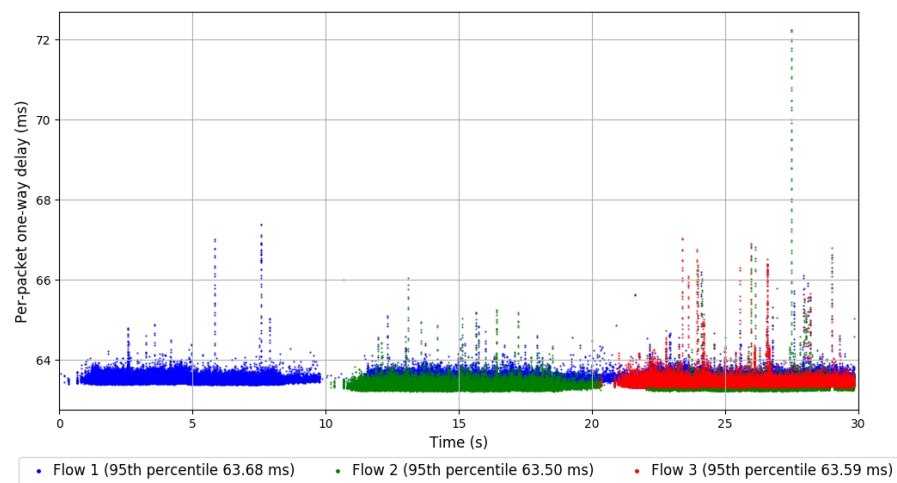
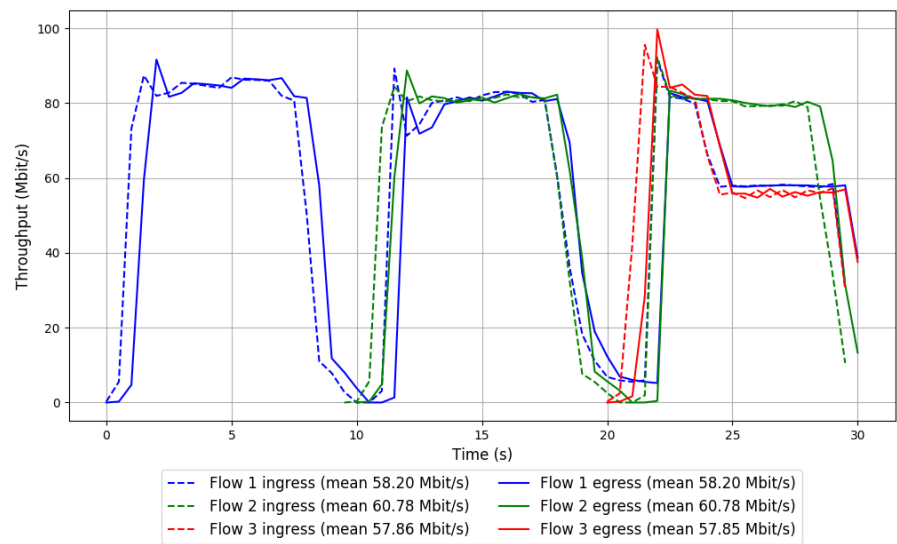


Run 2: Statistics of QUIC Cubic

Start at: 2018-06-19 11:19:14  
End at: 2018-06-19 11:19:44  
Local clock offset: -0.317 ms  
Remote clock offset: -0.139 ms

# Below is generated by plot.py at 2018-06-19 16:17:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 117.52 Mbit/s  
95th percentile per-packet one-way delay: 63.646 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 58.20 Mbit/s  
95th percentile per-packet one-way delay: 63.682 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 60.78 Mbit/s  
95th percentile per-packet one-way delay: 63.496 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 57.85 Mbit/s  
95th percentile per-packet one-way delay: 63.586 ms  
Loss rate: 0.01%

Run 2: Report of QUIC Cubic — Data Link

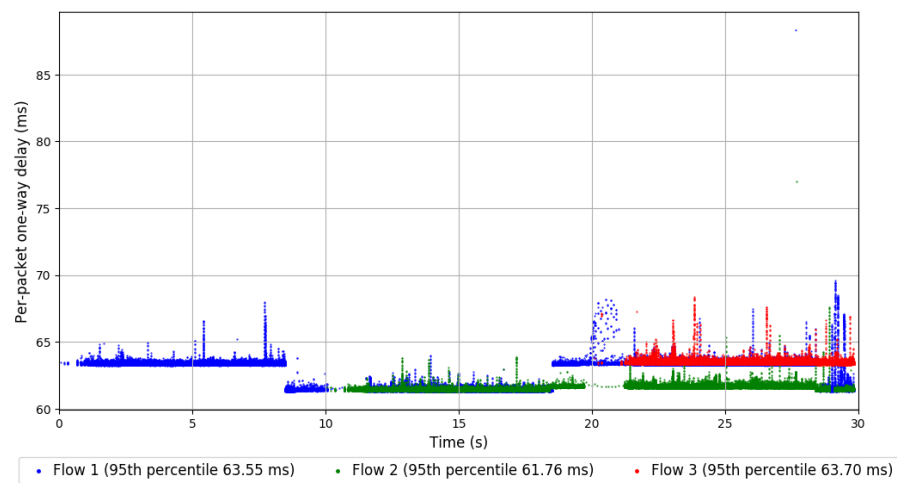
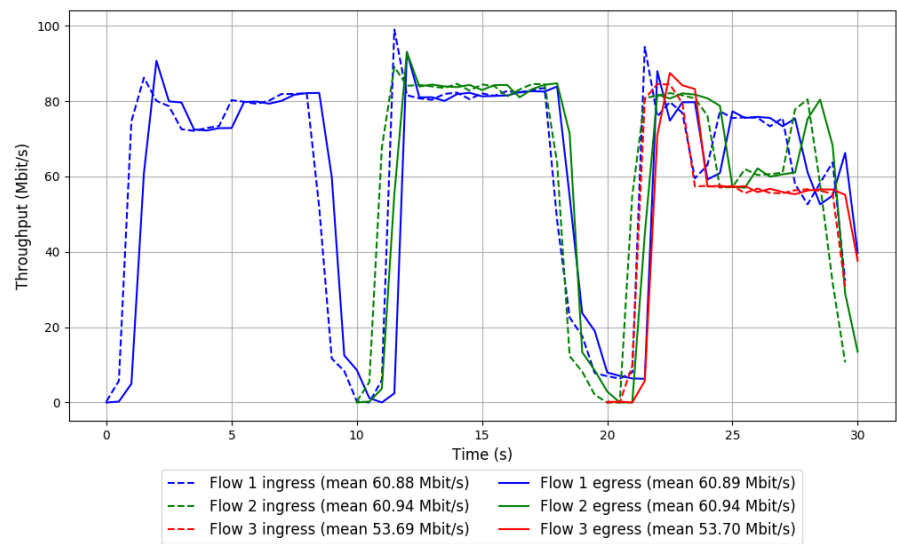


Run 3: Statistics of QUIC Cubic

Start at: 2018-06-19 11:41:39  
End at: 2018-06-19 11:42:09  
Local clock offset: -0.214 ms  
Remote clock offset: -0.246 ms

# Below is generated by plot.py at 2018-06-19 16:17:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 118.90 Mbit/s  
95th percentile per-packet one-way delay: 63.559 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 60.89 Mbit/s  
95th percentile per-packet one-way delay: 63.552 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 60.94 Mbit/s  
95th percentile per-packet one-way delay: 61.762 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 53.70 Mbit/s  
95th percentile per-packet one-way delay: 63.697 ms  
Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link

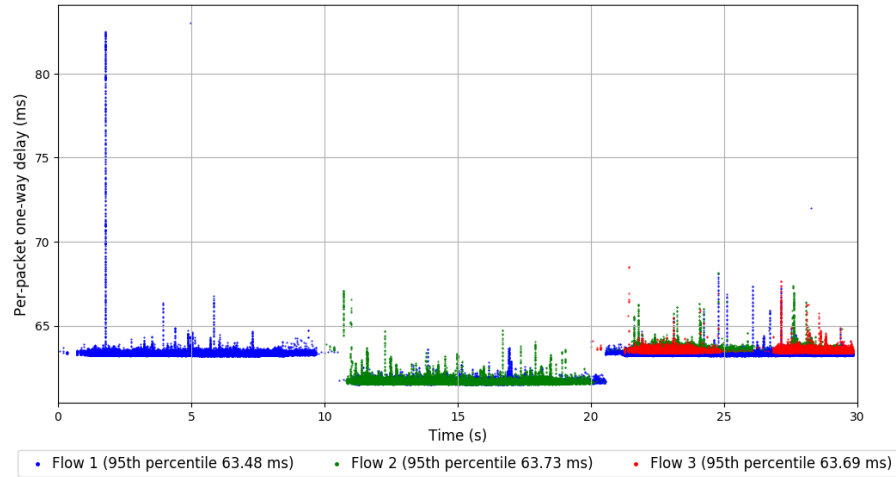
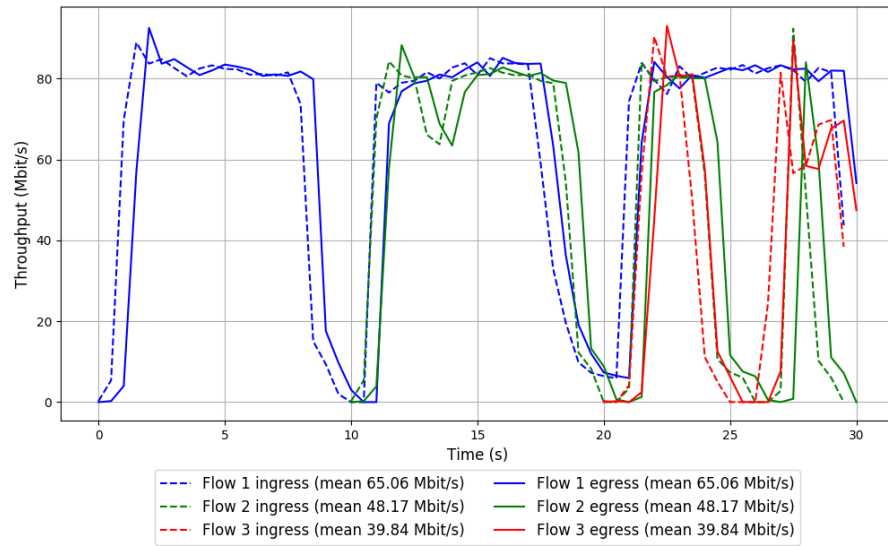


Run 4: Statistics of QUIC Cubic

Start at: 2018-06-19 12:04:17  
End at: 2018-06-19 12:04:47  
Local clock offset: 0.137 ms  
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2018-06-19 16:17:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 110.06 Mbit/s  
95th percentile per-packet one-way delay: 63.651 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 65.06 Mbit/s  
95th percentile per-packet one-way delay: 63.484 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 48.17 Mbit/s  
95th percentile per-packet one-way delay: 63.727 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 39.84 Mbit/s  
95th percentile per-packet one-way delay: 63.685 ms  
Loss rate: 0.00%

#### Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-06-19 12:27:00

End at: 2018-06-19 12:27:30

Local clock offset: 0.006 ms

Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2018-06-19 16:17:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 109.00 Mbit/s

95th percentile per-packet one-way delay: 63.664 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 55.93 Mbit/s

95th percentile per-packet one-way delay: 63.545 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.41 Mbit/s

95th percentile per-packet one-way delay: 63.719 ms

Loss rate: 0.00%

-- Flow 3:

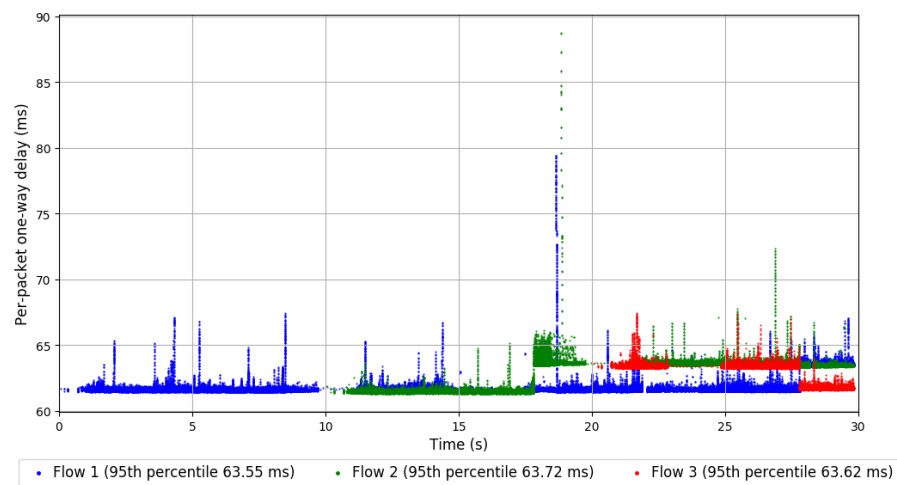
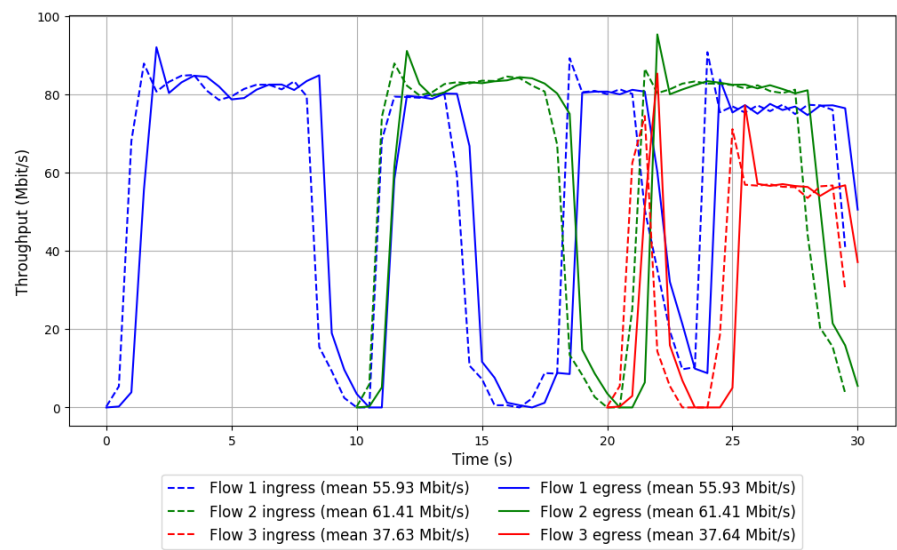
Average throughput: 37.64 Mbit/s

95th percentile per-packet one-way delay: 63.618 ms

Loss rate: 0.00%



Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-06-19 12:49:31

End at: 2018-06-19 12:50:01

Local clock offset: 0.049 ms

Remote clock offset: 0.425 ms

# Below is generated by plot.py at 2018-06-19 16:17:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 112.63 Mbit/s

95th percentile per-packet one-way delay: 64.146 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.28 Mbit/s

95th percentile per-packet one-way delay: 64.155 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.71 Mbit/s

95th percentile per-packet one-way delay: 64.151 ms

Loss rate: 0.00%

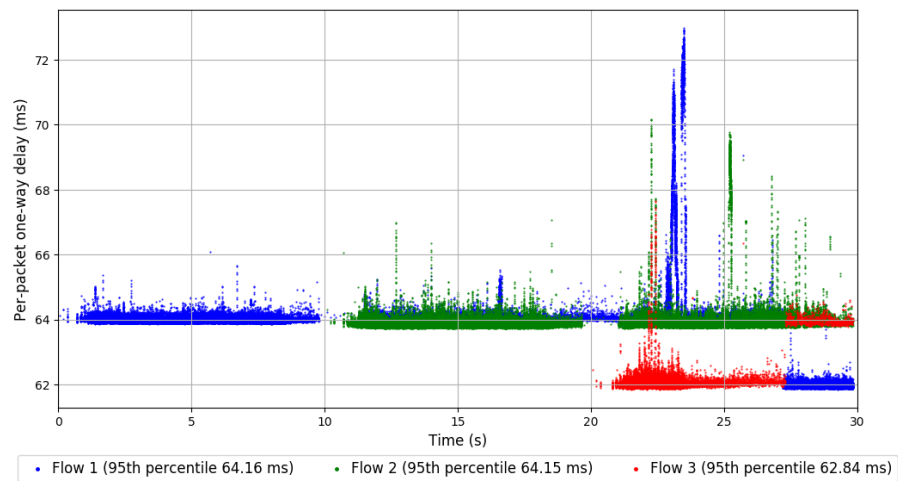
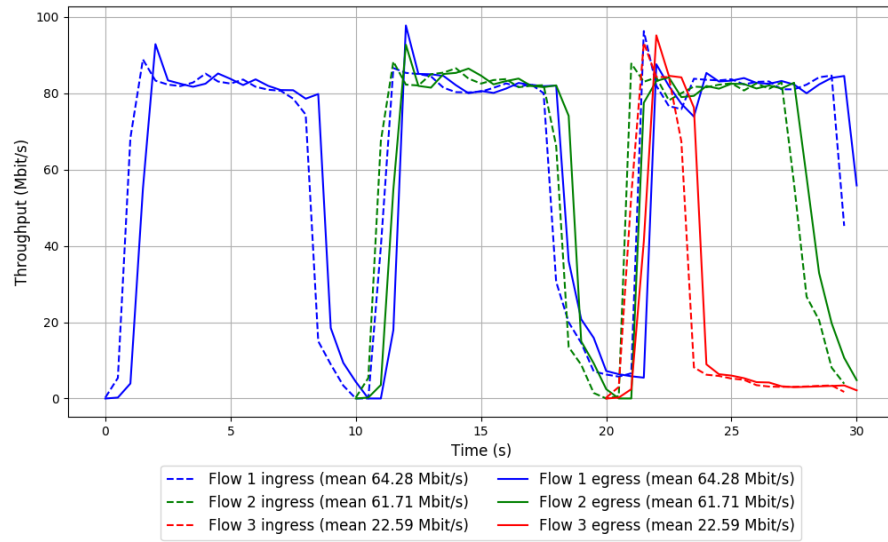
-- Flow 3:

Average throughput: 22.59 Mbit/s

95th percentile per-packet one-way delay: 62.836 ms

Loss rate: 0.00%

## Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-06-19 13:12:00

End at: 2018-06-19 13:12:30

Local clock offset: 0.313 ms

Remote clock offset: -0.32 ms

# Below is generated by plot.py at 2018-06-19 16:17:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 113.92 Mbit/s

95th percentile per-packet one-way delay: 63.376 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.34 Mbit/s

95th percentile per-packet one-way delay: 63.439 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.99 Mbit/s

95th percentile per-packet one-way delay: 63.297 ms

Loss rate: 0.00%

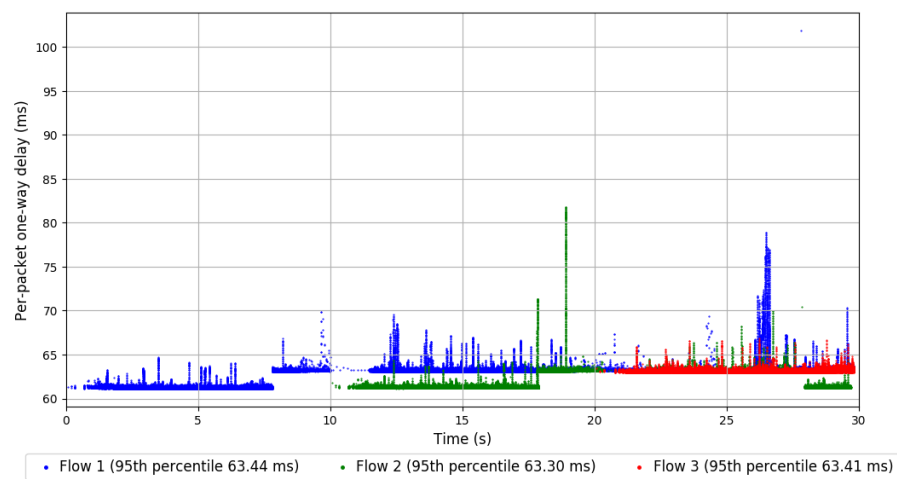
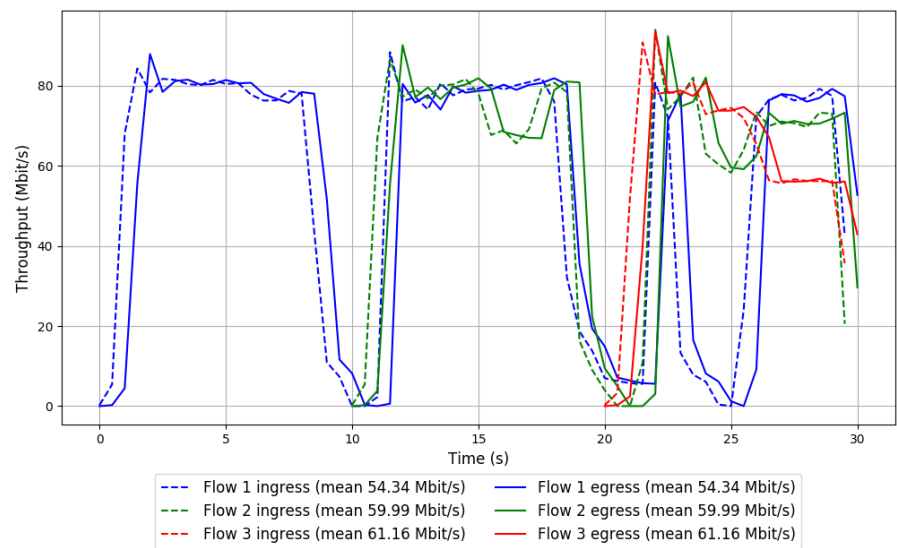
-- Flow 3:

Average throughput: 61.16 Mbit/s

95th percentile per-packet one-way delay: 63.415 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link

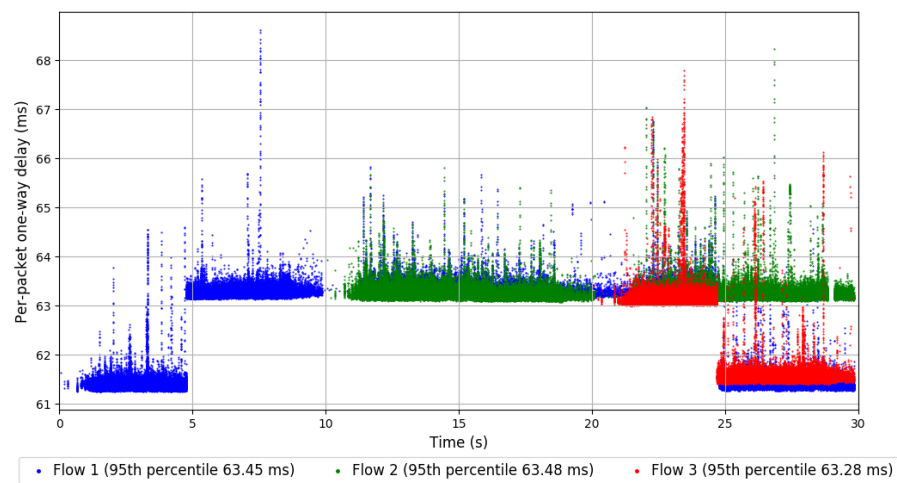
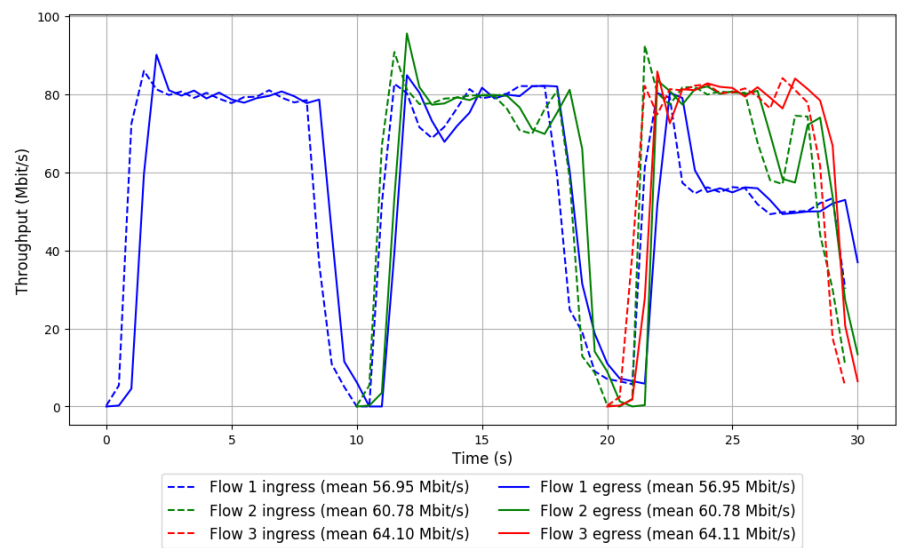


Run 8: Statistics of QUIC Cubic

Start at: 2018-06-19 13:34:33  
End at: 2018-06-19 13:35:03  
Local clock offset: 0.048 ms  
Remote clock offset: -0.259 ms

# Below is generated by plot.py at 2018-06-19 16:17:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 118.30 Mbit/s  
95th percentile per-packet one-way delay: 63.449 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 56.95 Mbit/s  
95th percentile per-packet one-way delay: 63.454 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 60.78 Mbit/s  
95th percentile per-packet one-way delay: 63.477 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 64.11 Mbit/s  
95th percentile per-packet one-way delay: 63.283 ms  
Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



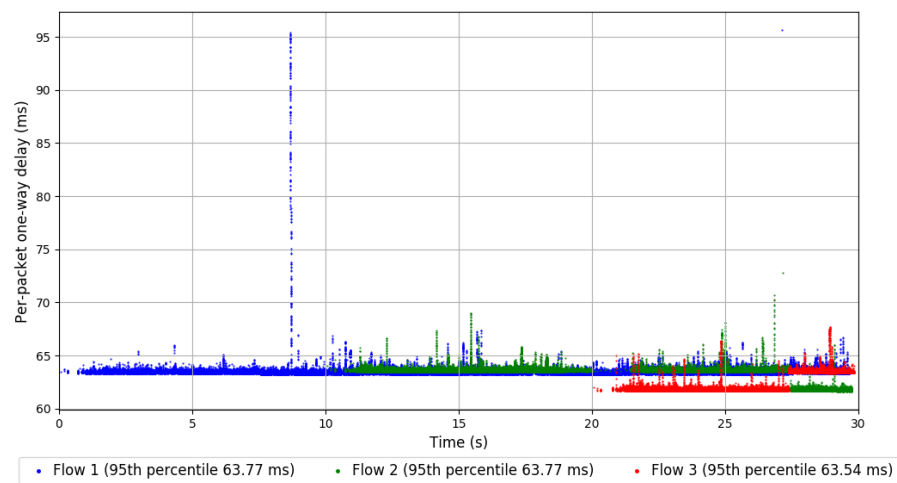
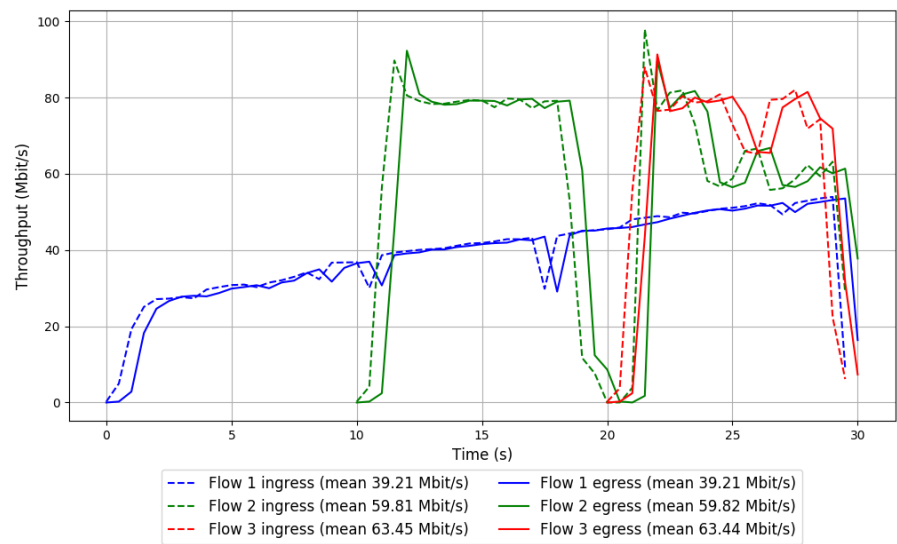
Run 9: Statistics of QUIC Cubic

Start at: 2018-06-19 13:57:10  
End at: 2018-06-19 13:57:40  
Local clock offset: -0.038 ms  
Remote clock offset: -0.105 ms

# Below is generated by plot.py at 2018-06-19 16:17:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 99.29 Mbit/s  
95th percentile per-packet one-way delay: 63.745 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 39.21 Mbit/s  
95th percentile per-packet one-way delay: 63.774 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 59.82 Mbit/s  
95th percentile per-packet one-way delay: 63.768 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 63.44 Mbit/s  
95th percentile per-packet one-way delay: 63.539 ms  
Loss rate: 0.00%



Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-06-19 14:19:48

End at: 2018-06-19 14:20:18

Local clock offset: -0.048 ms

Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2018-06-19 16:17:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 104.21 Mbit/s

95th percentile per-packet one-way delay: 63.830 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 42.74 Mbit/s

95th percentile per-packet one-way delay: 63.613 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.24 Mbit/s

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

Loss rate: 0.00%

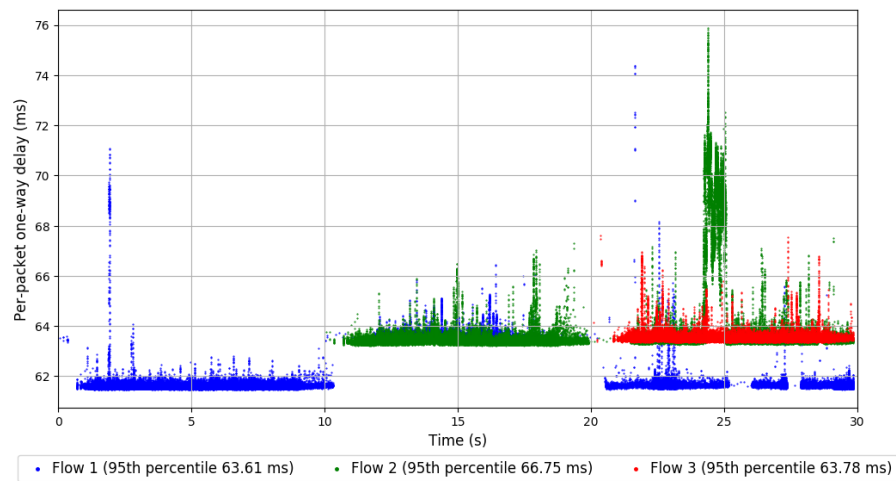
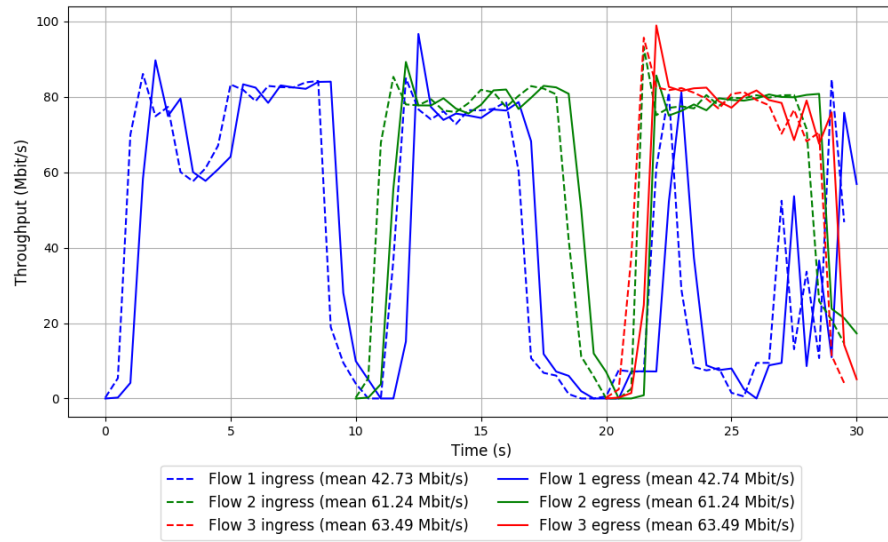
-- Flow 3:

Average throughput: 63.49 Mbit/s

95th percentile per-packet one-way delay: 63.780 ms

Loss rate: 0.00%

# Run 10: Report of QUIC Cubic — Data Link

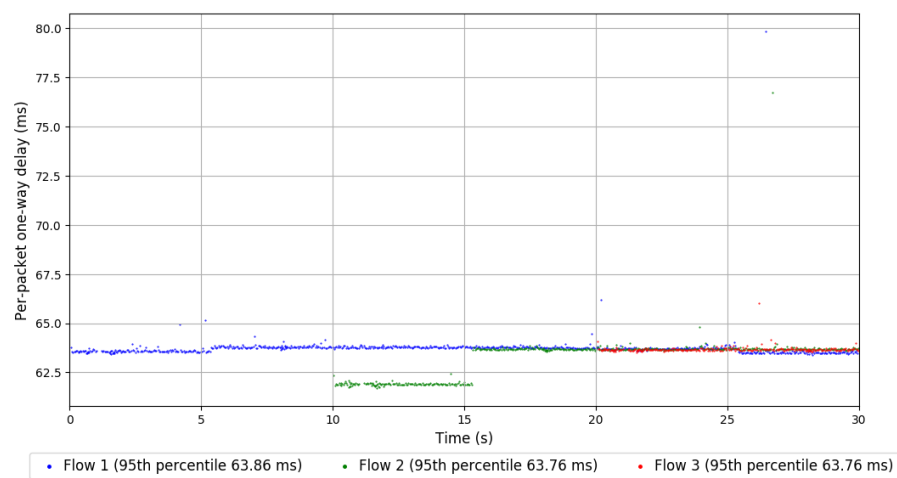
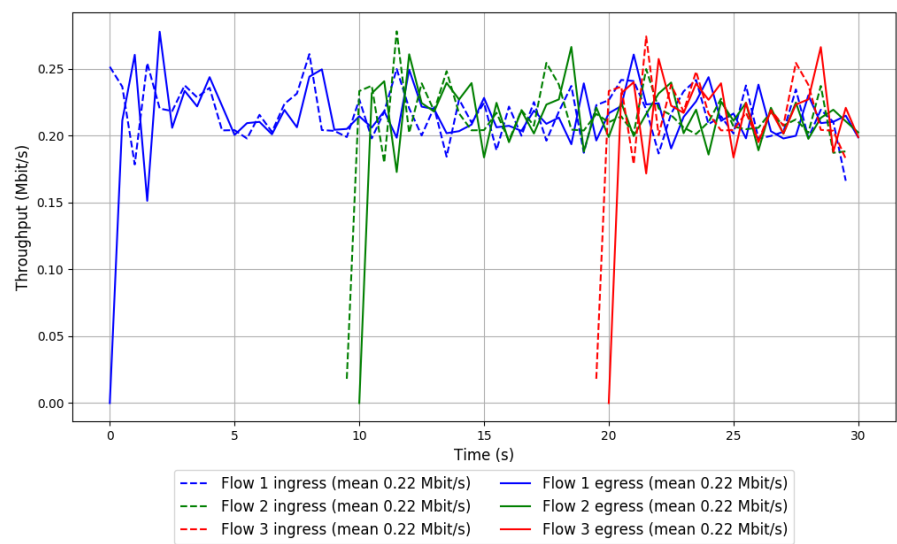


```
Run 1: Statistics of SReAM

Start at: 2018-06-19 10:53:53
End at: 2018-06-19 10:54:23
Local clock offset: -0.242 ms
Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2018-06-19 16:17:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.839 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.859 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.763 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.759 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

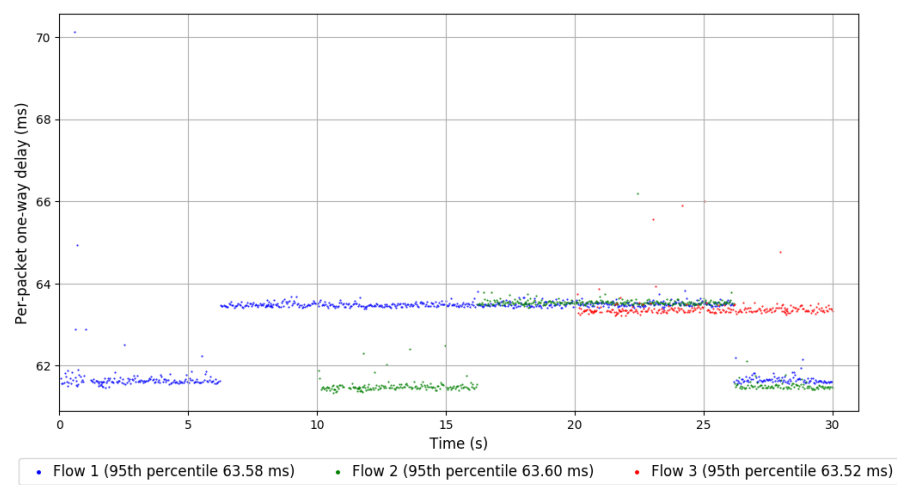
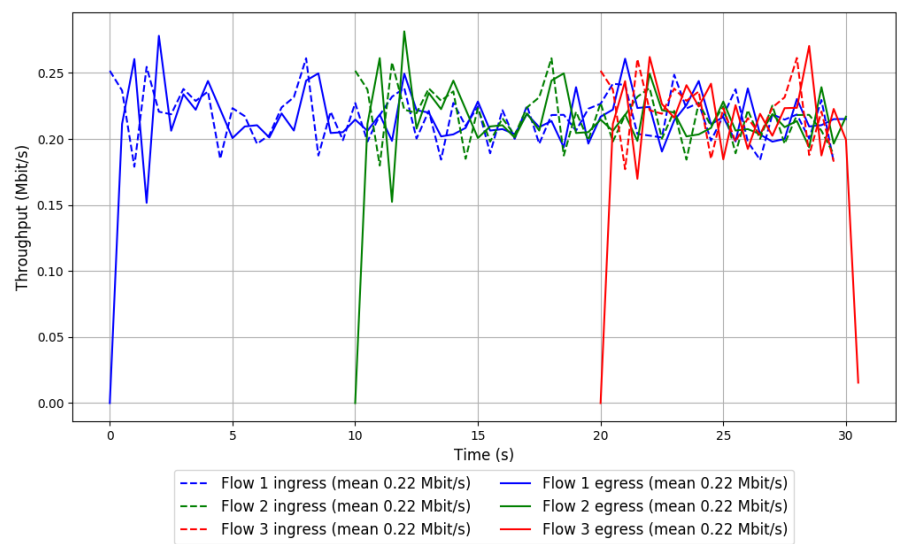


```
Run 2: Statistics of SReAM

Start at: 2018-06-19 11:16:22
End at: 2018-06-19 11:16:52
Local clock offset: -0.312 ms
Remote clock offset: -0.345 ms

# Below is generated by plot.py at 2018-06-19 16:17:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.592 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.580 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.604 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.518 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-06-19 11:38:52

End at: 2018-06-19 11:39:22

Local clock offset: -0.271 ms

Remote clock offset: 0.022 ms

# Below is generated by plot.py at 2018-06-19 16:17:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 63.948 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.921 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 62.106 ms

Loss rate: 0.00%

-- Flow 3:

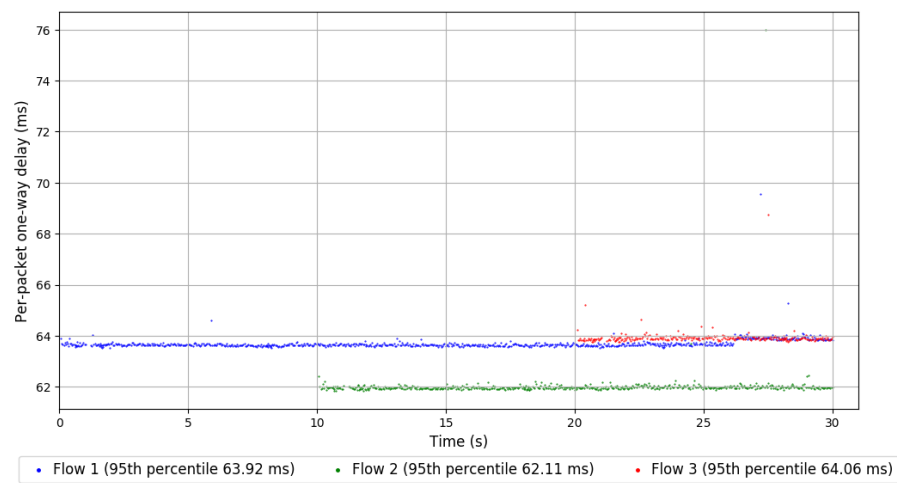
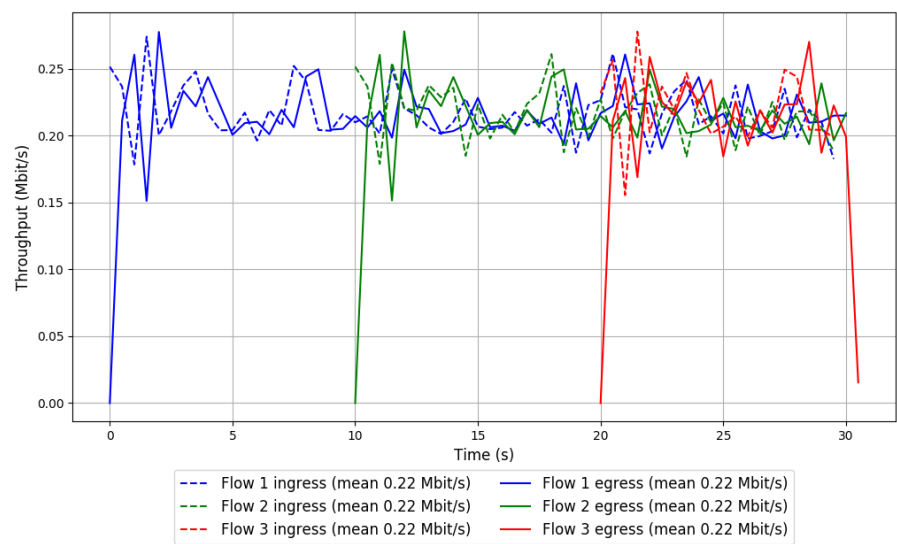
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.055 ms

Loss rate: 0.00%



Run 3: Report of SCReAM — Data Link

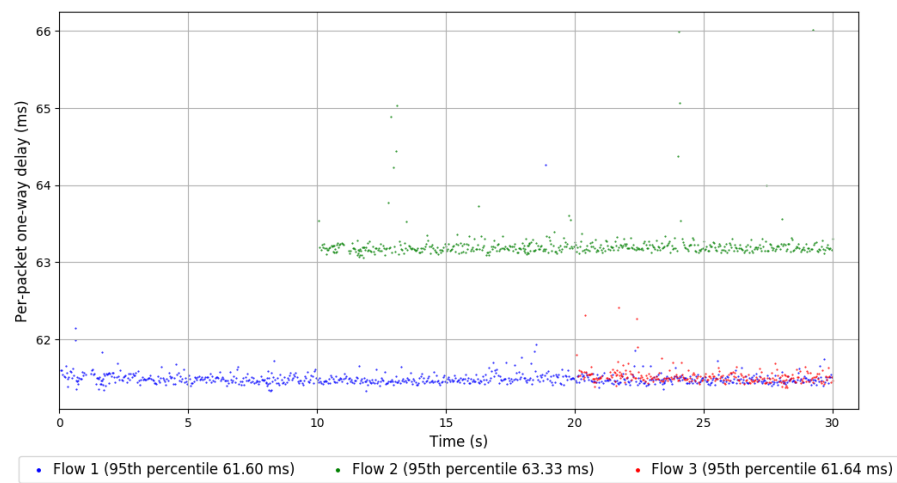
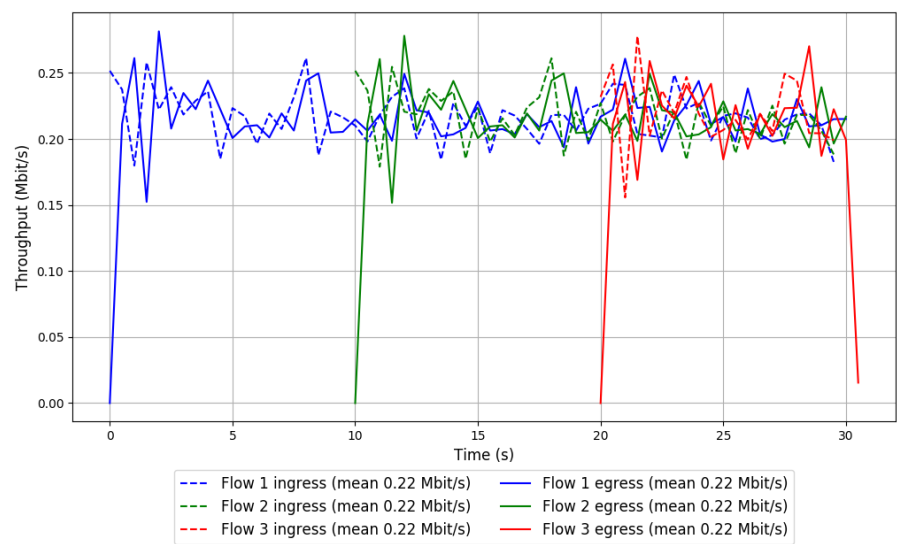


Run 4: Statistics of SReAM

Start at: 2018-06-19 12:01:24  
End at: 2018-06-19 12:01:54  
Local clock offset: 0.145 ms  
Remote clock offset: -0.232 ms

# Below is generated by plot.py at 2018-06-19 16:17:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 63.249 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 61.604 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.329 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 61.642 ms  
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-06-19 12:24:11

End at: 2018-06-19 12:24:41

Local clock offset: 0.026 ms

Remote clock offset: 0.28 ms

# Below is generated by plot.py at 2018-06-19 16:17:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 63.876 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.888 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.860 ms

Loss rate: 0.00%

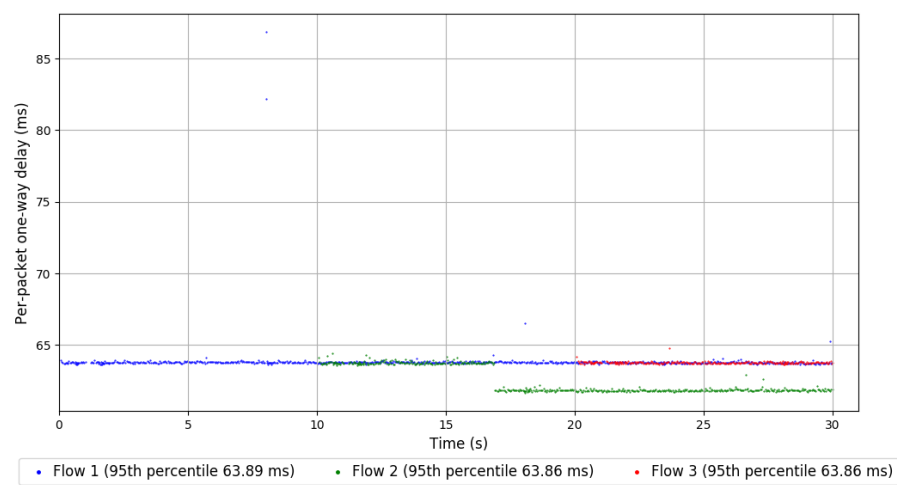
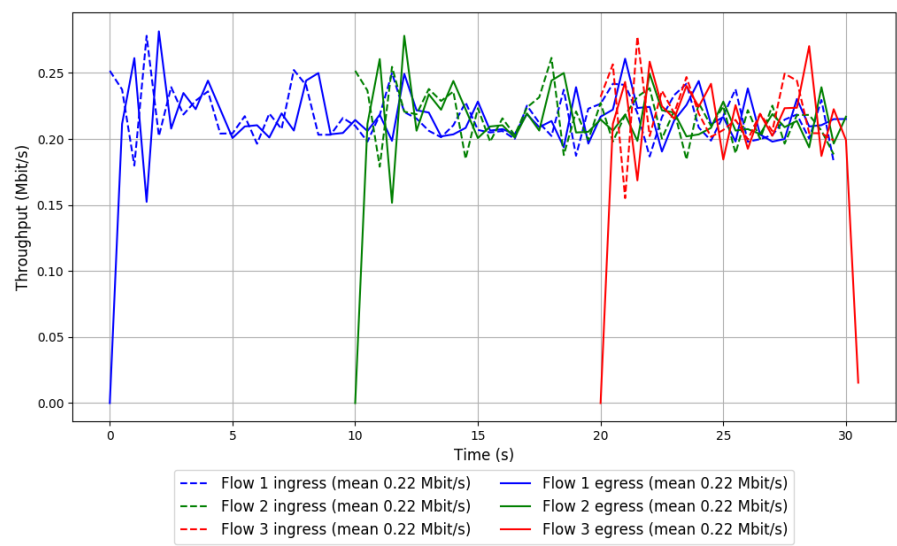
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.861 ms

Loss rate: 0.00%

Run 5: Report of SCReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-06-19 12:46:36

End at: 2018-06-19 12:47:06

Local clock offset: -0.003 ms

Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2018-06-19 16:17:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 63.816 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.856 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.659 ms

Loss rate: 0.00%

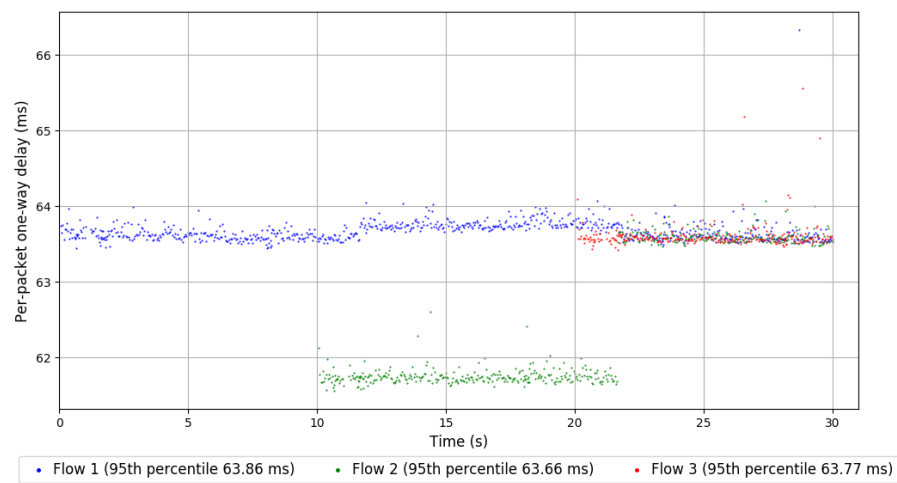
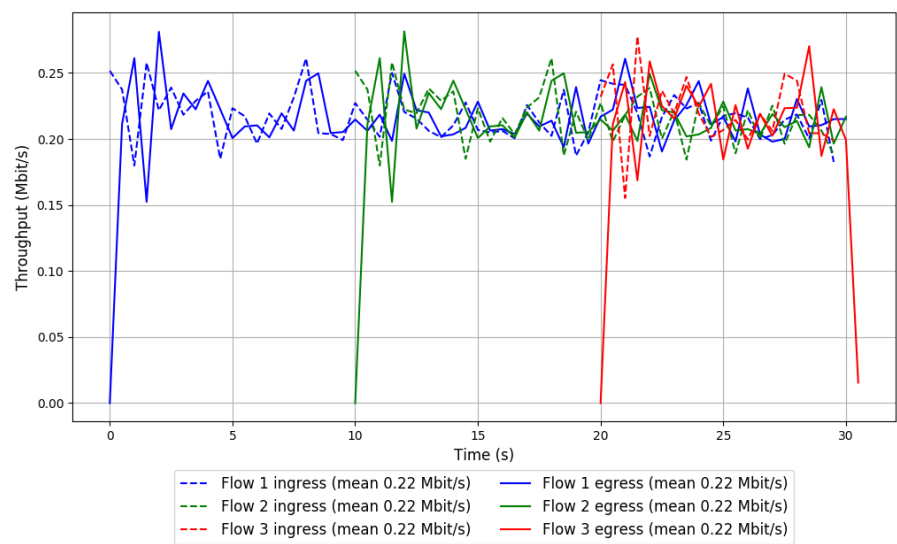
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.772 ms

Loss rate: 0.00%

Run 6: Report of SCReAM — Data Link



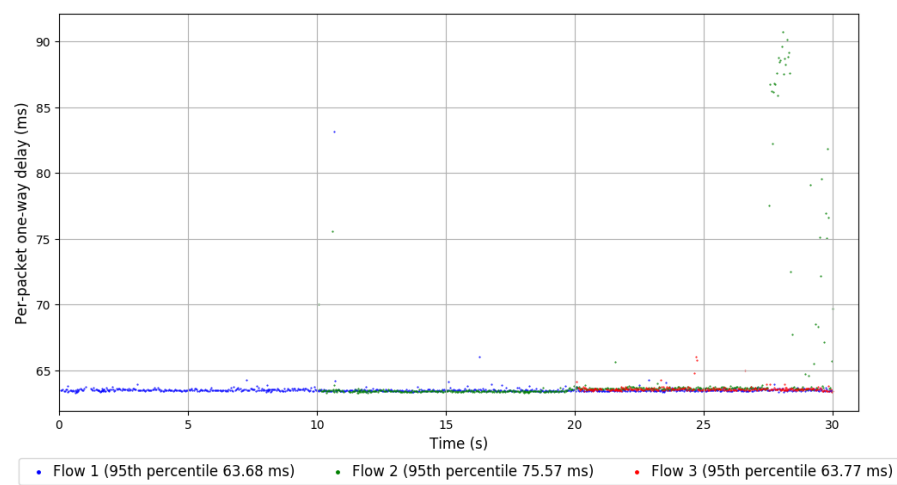
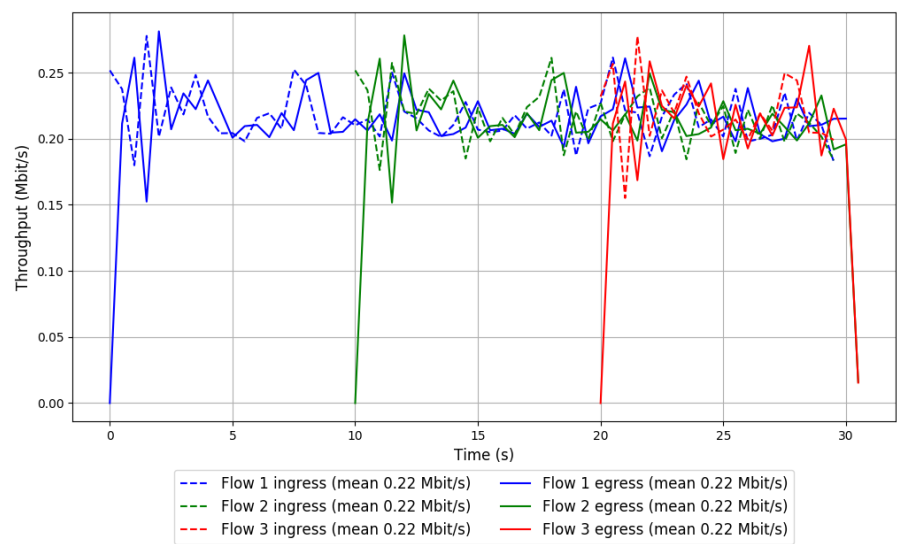
Run 7: Statistics of SReAM

Start at: 2018-06-19 13:09:08  
End at: 2018-06-19 13:09:38  
Local clock offset: 0.306 ms  
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2018-06-19 16:17:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 63.803 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.684 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 75.571 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.767 ms  
Loss rate: 0.00%



Run 7: Report of SCSReAM — Data Link

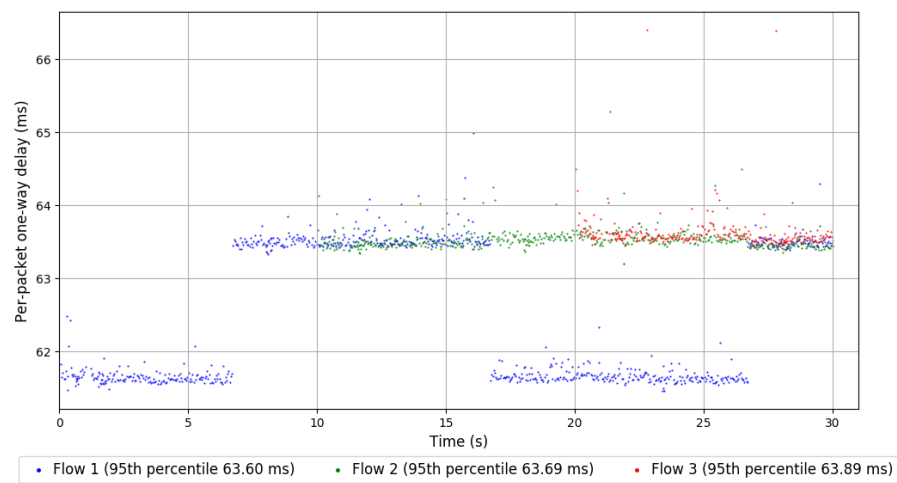
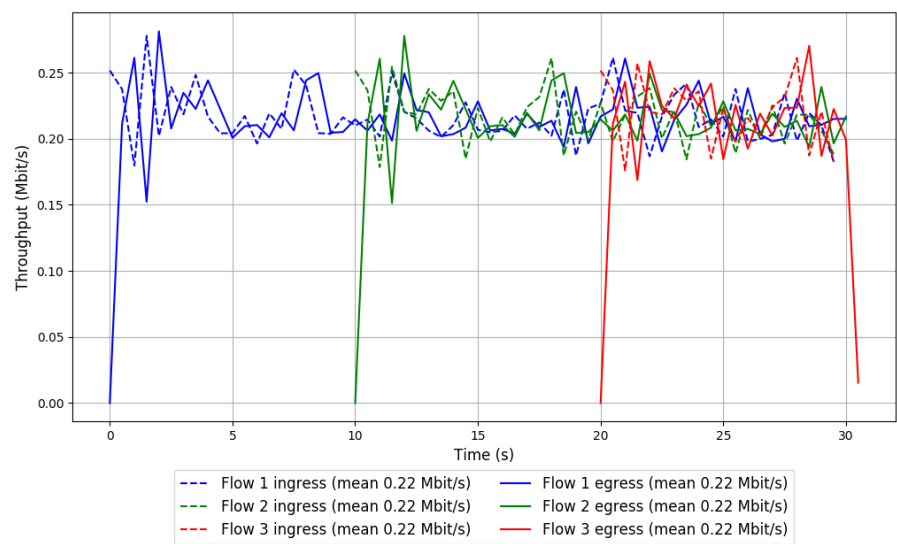


Run 8: Statistics of SReAM

Start at: 2018-06-19 13:31:41  
End at: 2018-06-19 13:32:11  
Local clock offset: 0.07 ms  
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2018-06-19 16:17:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 63.703 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.597 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.691 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.889 ms  
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-06-19 13:54:14

End at: 2018-06-19 13:54:44

Local clock offset: 0.034 ms

Remote clock offset: 0.171 ms

# Below is generated by plot.py at 2018-06-19 16:17:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 63.891 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.773 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.947 ms

Loss rate: 0.00%

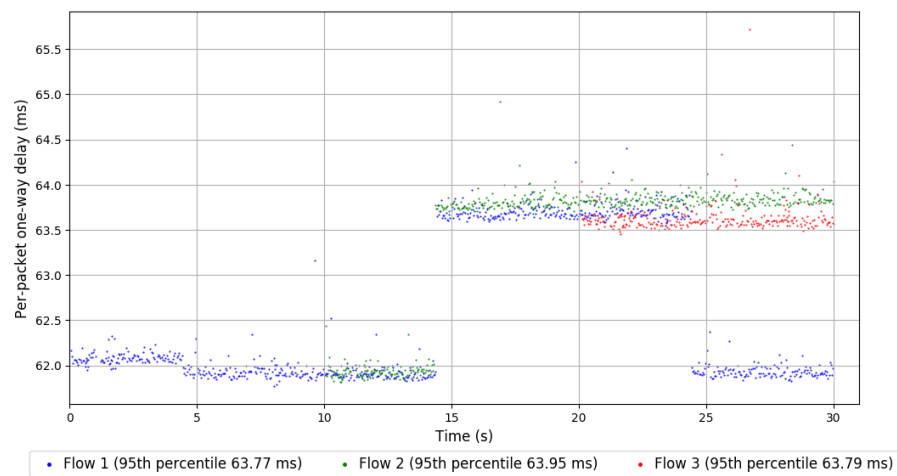
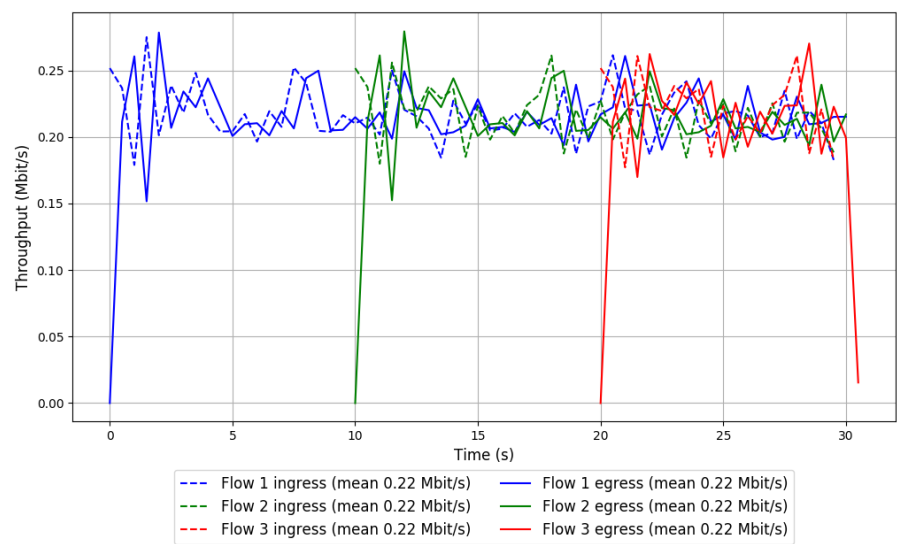
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.789 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-06-19 14:17:02

End at: 2018-06-19 14:17:32

Local clock offset: -0.038 ms

Remote clock offset: 0.098 ms

# Below is generated by plot.py at 2018-06-19 16:17:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 63.933 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.028 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

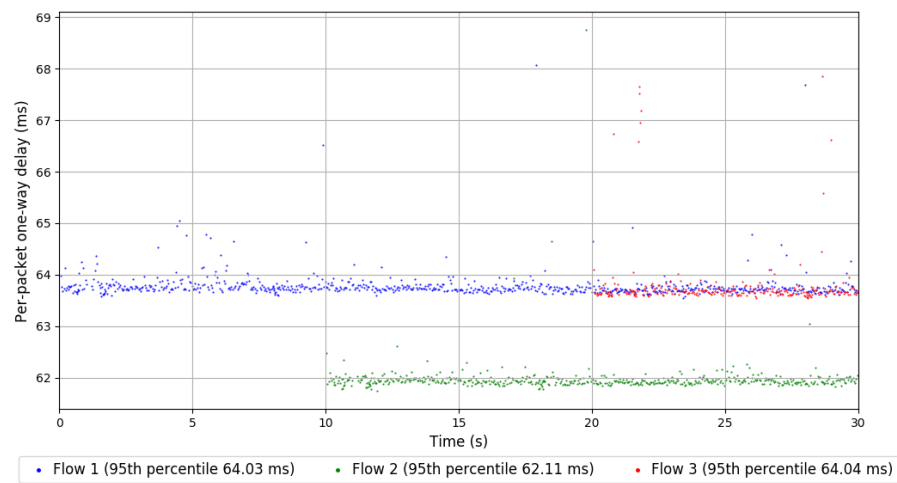
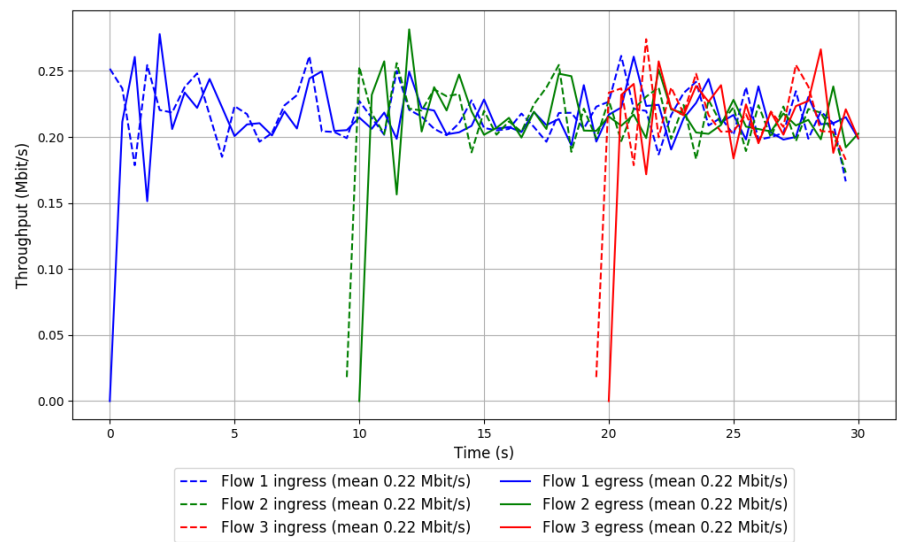
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.040 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



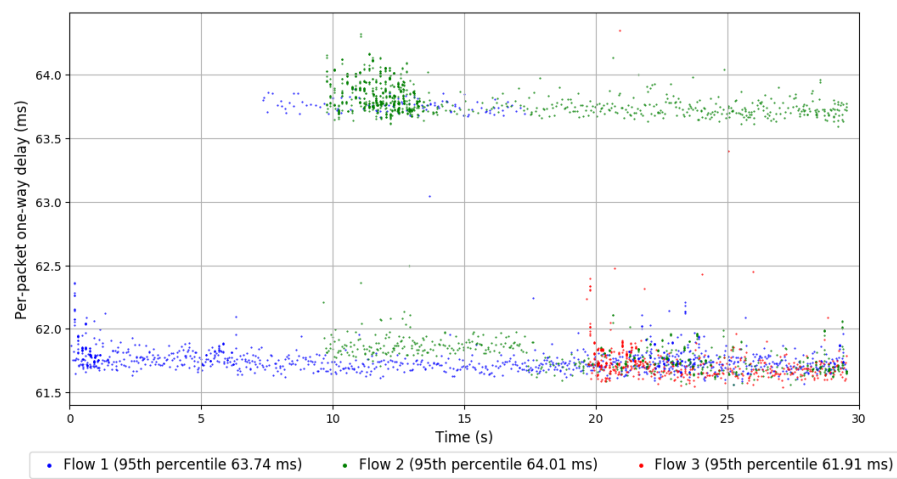
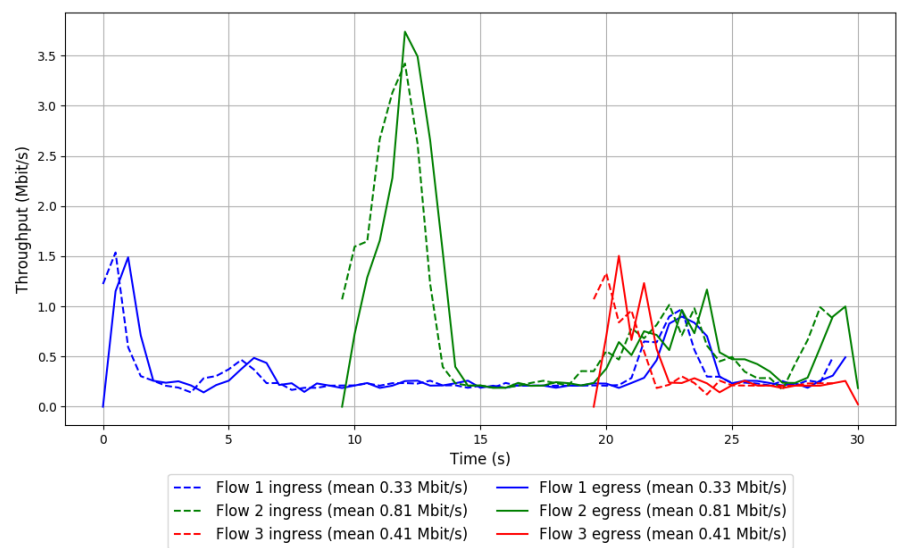
Run 1: Statistics of Sprout

Start at: 2018-06-19 10:46:30  
End at: 2018-06-19 10:47:00  
Local clock offset: -0.311 ms  
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2018-06-19 16:17:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.01 Mbit/s  
95th percentile per-packet one-way delay: 63.937 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.33 Mbit/s  
95th percentile per-packet one-way delay: 63.742 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.81 Mbit/s  
95th percentile per-packet one-way delay: 64.006 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.41 Mbit/s  
95th percentile per-packet one-way delay: 61.915 ms  
Loss rate: 0.00%



Run 1: Report of Sprout — Data Link

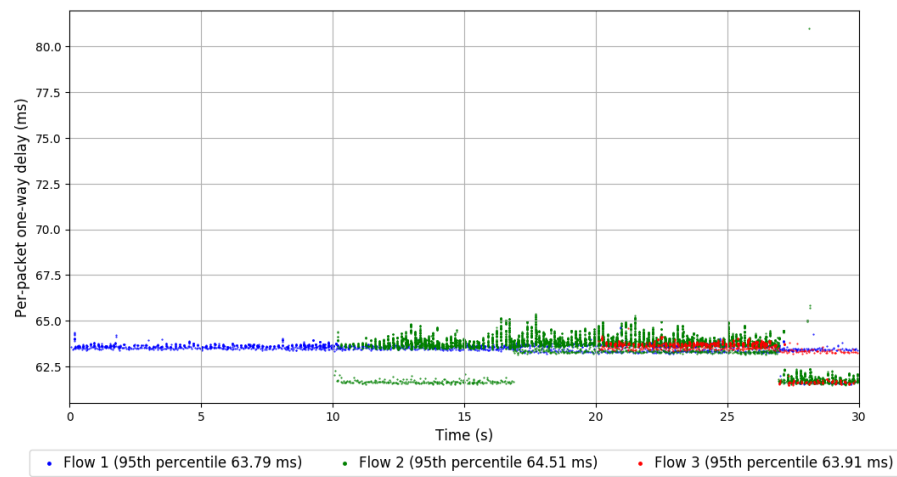
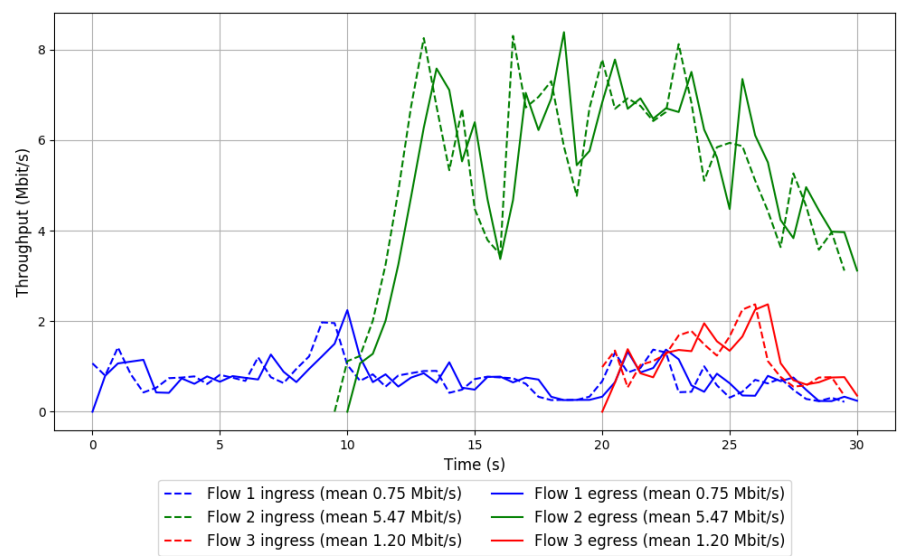


## Run 2: Statistics of Sprout

Start at: 2018-06-19 11:08:51  
End at: 2018-06-19 11:09:21  
Local clock offset: -0.26 ms  
Remote clock offset: -0.177 ms

```
# Below is generated by plot.py at 2018-06-19 16:17:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.78 Mbit/s
95th percentile per-packet one-way delay: 64.413 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.75 Mbit/s
95th percentile per-packet one-way delay: 63.787 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.47 Mbit/s
95th percentile per-packet one-way delay: 64.508 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.20 Mbit/s
95th percentile per-packet one-way delay: 63.913 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

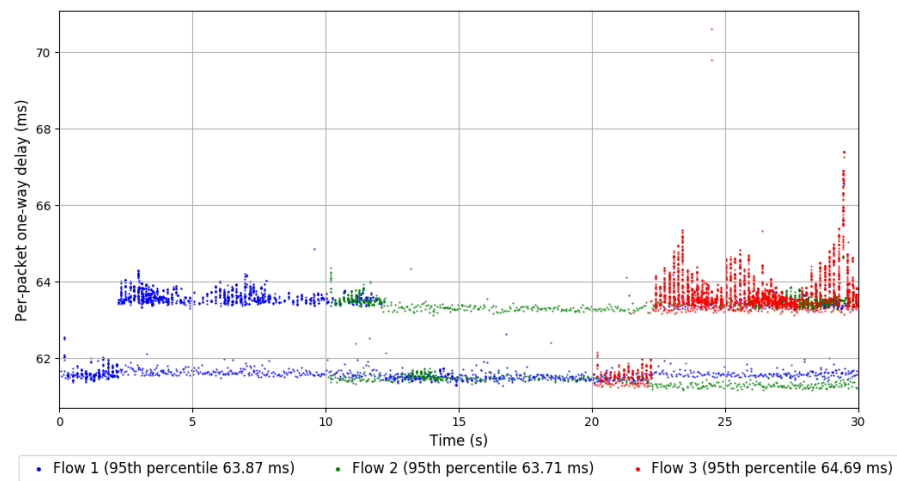
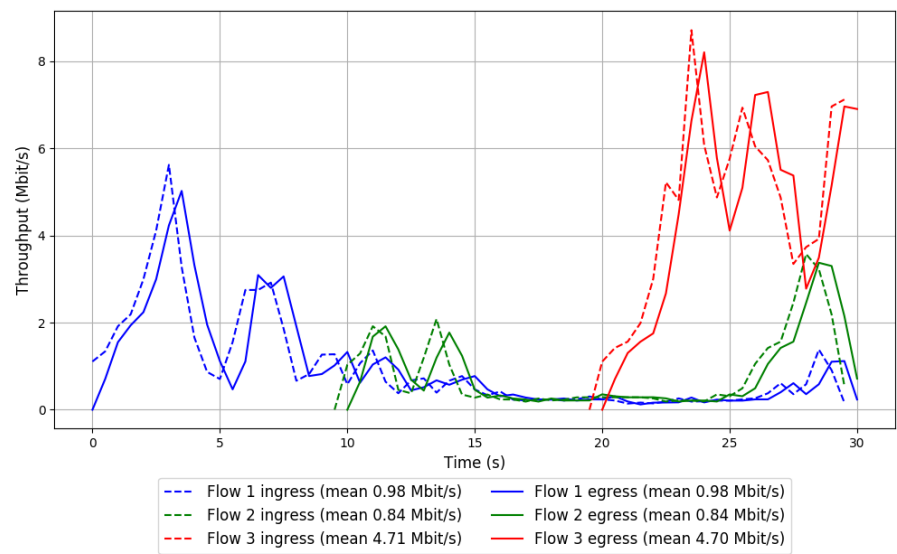


### Run 3: Statistics of Sprout

Start at: 2018-06-19 11:31:16  
End at: 2018-06-19 11:31:46  
Local clock offset: -0.32 ms  
Remote clock offset: -0.436 ms

```
# Below is generated by plot.py at 2018-06-19 16:17:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.10 Mbit/s
95th percentile per-packet one-way delay: 64.378 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 63.866 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.84 Mbit/s
95th percentile per-packet one-way delay: 63.707 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.70 Mbit/s
95th percentile per-packet one-way delay: 64.694 ms
Loss rate: 0.24%
```

Run 3: Report of Sprout — Data Link

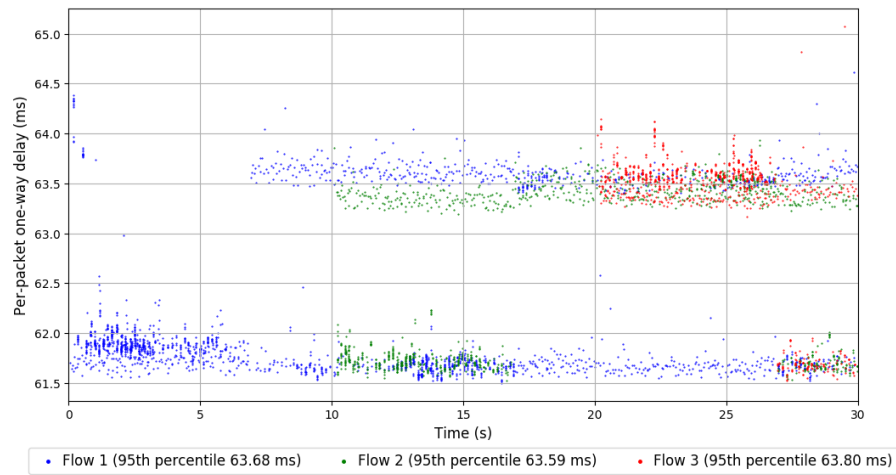
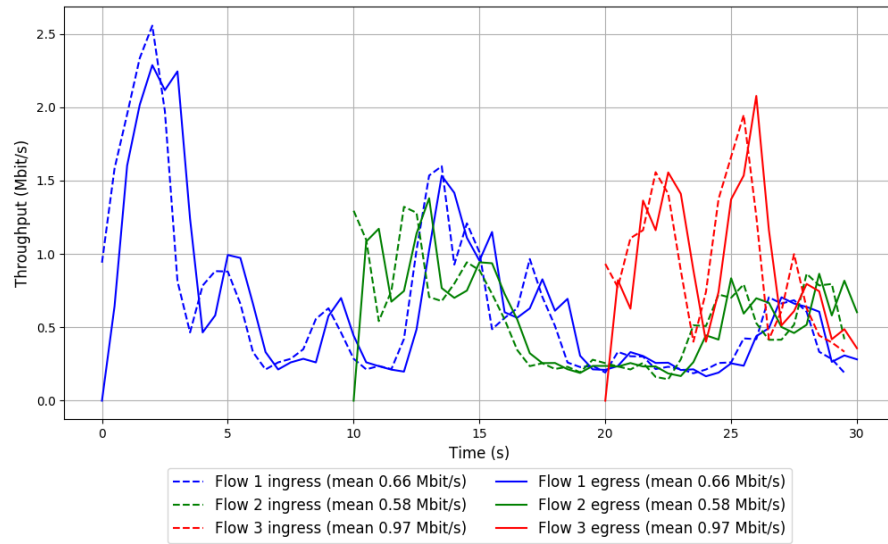


#### Run 4: Statistics of Sprout

Start at: 2018-06-19 11:53:41  
End at: 2018-06-19 11:54:11  
Local clock offset: 0.107 ms  
Remote clock offset: -0.049 ms

```
# Below is generated by plot.py at 2018-06-19 16:17:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.36 Mbit/s
95th percentile per-packet one-way delay: 63.692 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 63.680 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 63.587 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.97 Mbit/s
95th percentile per-packet one-way delay: 63.802 ms
Loss rate: 0.00%
```

#### Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-06-19 12:16:25

End at: 2018-06-19 12:16:55

Local clock offset: 0.077 ms

Remote clock offset: 0.152 ms

# Below is generated by plot.py at 2018-06-19 16:17:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 64.144 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 65.252 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 63.763 ms

Loss rate: 0.00%

-- Flow 3:

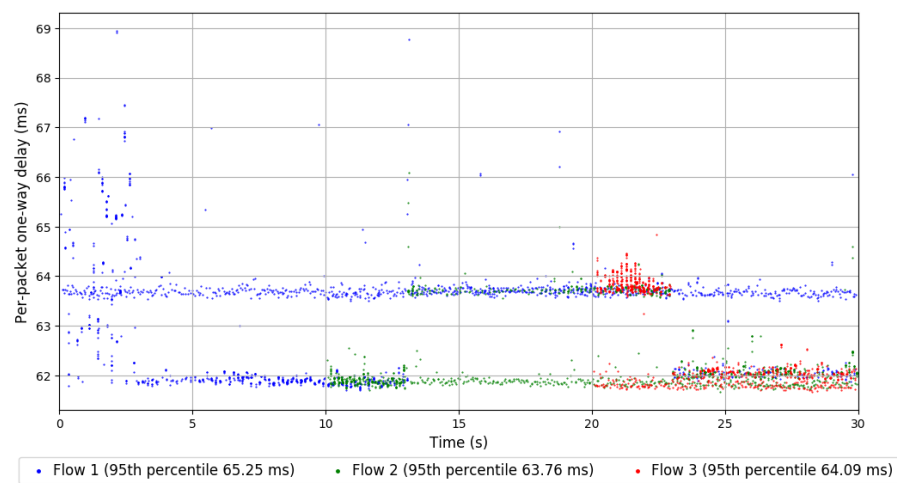
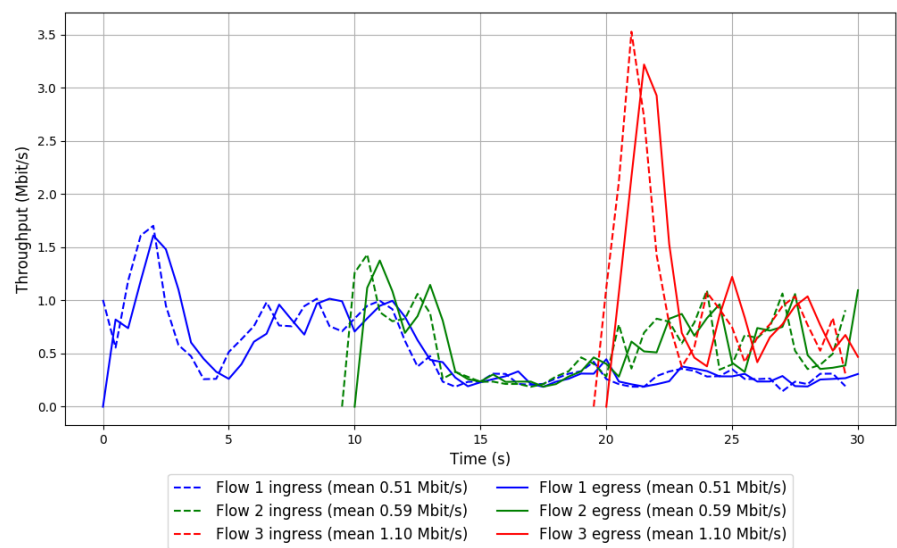
Average throughput: 1.10 Mbit/s

95th percentile per-packet one-way delay: 64.095 ms

Loss rate: 0.00%



Run 5: Report of Sprout — Data Link

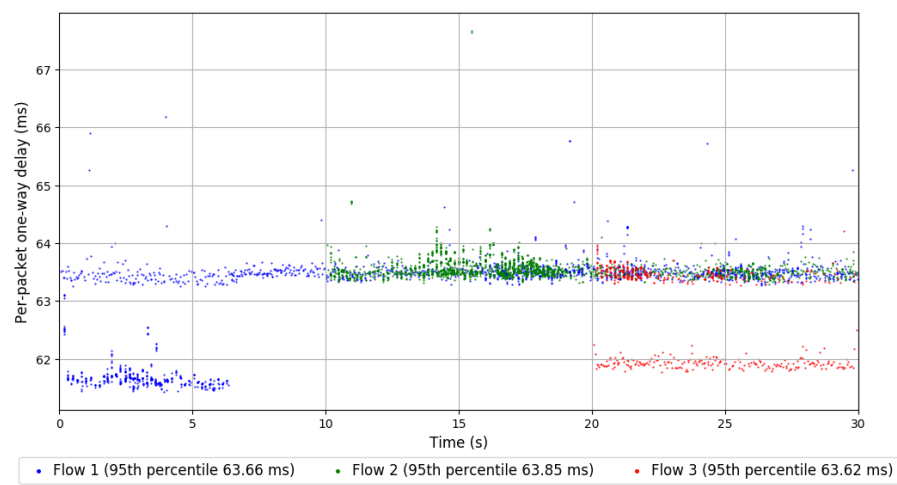
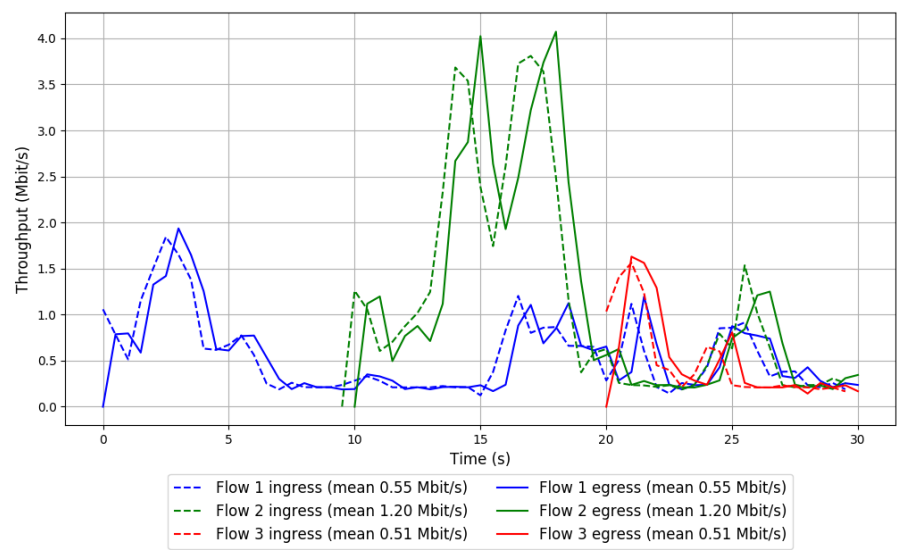


Run 6: Statistics of Sprout

Start at: 2018-06-19 12:39:02  
End at: 2018-06-19 12:39:32  
Local clock offset: -0.022 ms  
Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2018-06-19 16:17:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.52 Mbit/s  
95th percentile per-packet one-way delay: 63.795 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.55 Mbit/s  
95th percentile per-packet one-way delay: 63.662 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.20 Mbit/s  
95th percentile per-packet one-way delay: 63.854 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.51 Mbit/s  
95th percentile per-packet one-way delay: 63.623 ms  
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-06-19 13:01:29

End at: 2018-06-19 13:01:59

Local clock offset: 0.181 ms

Remote clock offset: 0.165 ms

# Below is generated by plot.py at 2018-06-19 16:17:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 64.095 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.83 Mbit/s

95th percentile per-packet one-way delay: 64.134 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 63.984 ms

Loss rate: 0.00%

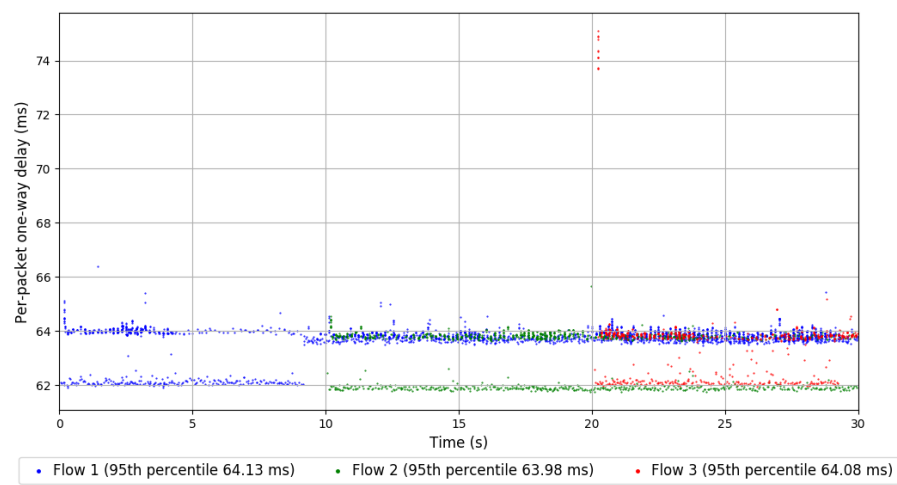
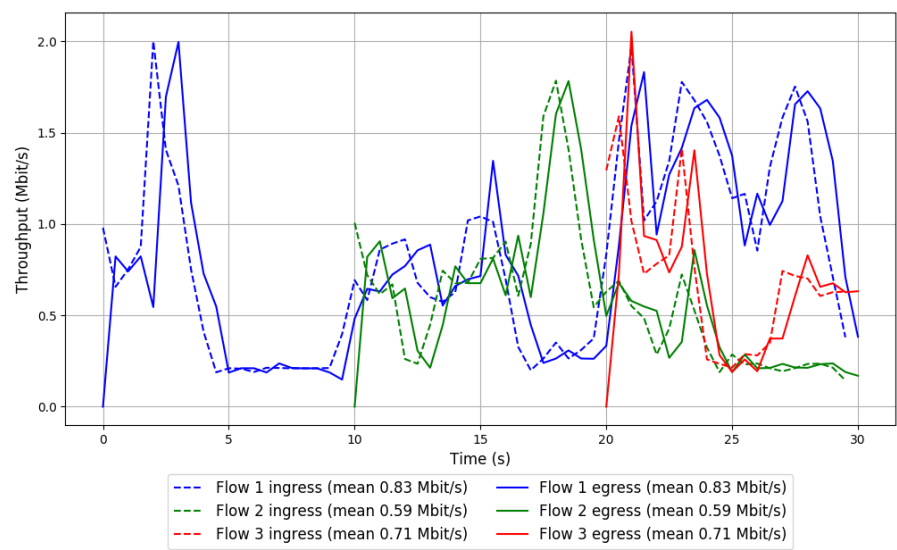
-- Flow 3:

Average throughput: 0.71 Mbit/s

95th percentile per-packet one-way delay: 64.085 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-06-19 13:24:05

End at: 2018-06-19 13:24:35

Local clock offset: 0.207 ms

Remote clock offset: 0.127 ms

# Below is generated by plot.py at 2018-06-19 16:17:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 64.172 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 64.235 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 64.047 ms

Loss rate: 0.00%

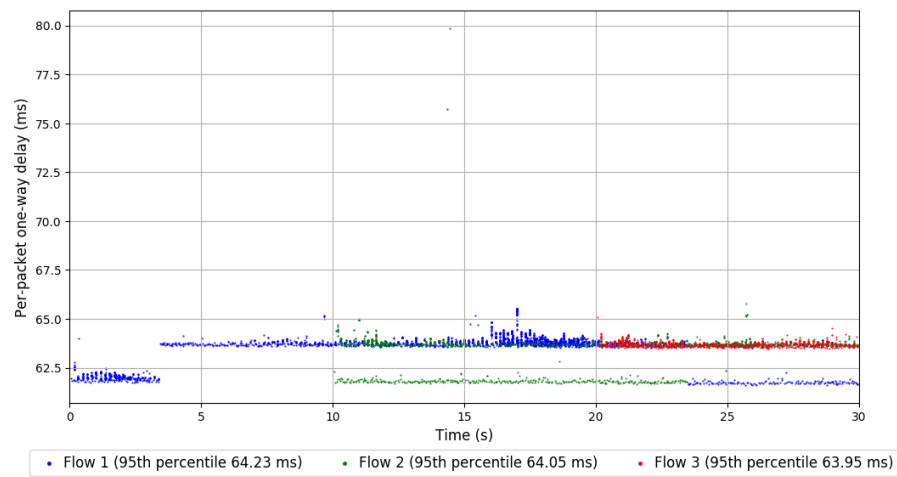
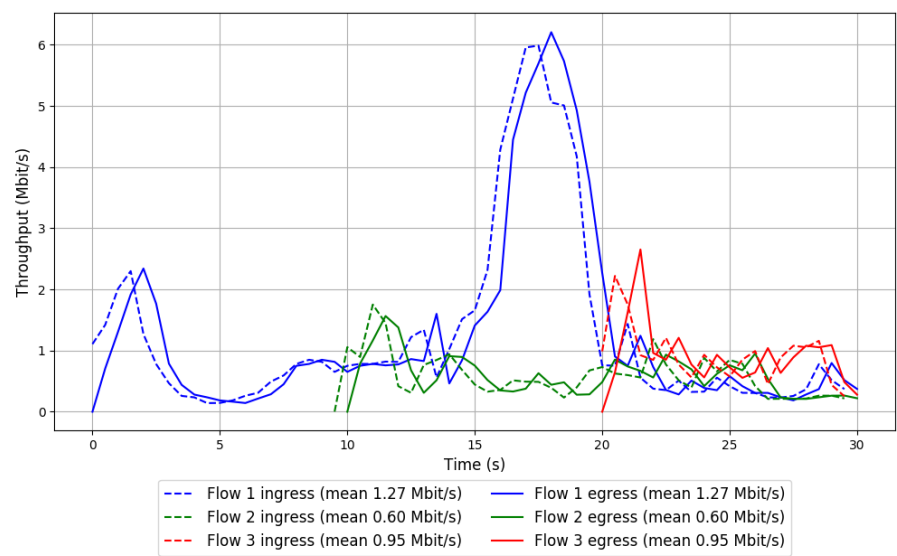
-- Flow 3:

Average throughput: 0.95 Mbit/s

95th percentile per-packet one-way delay: 63.955 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



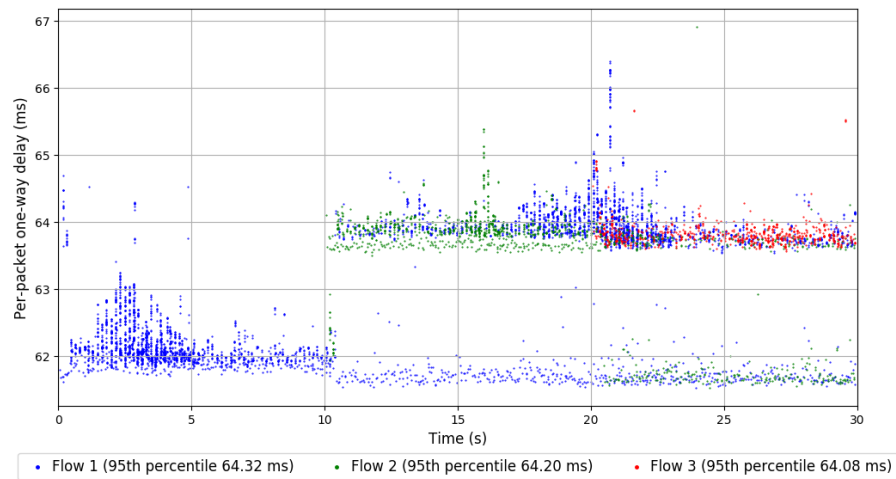
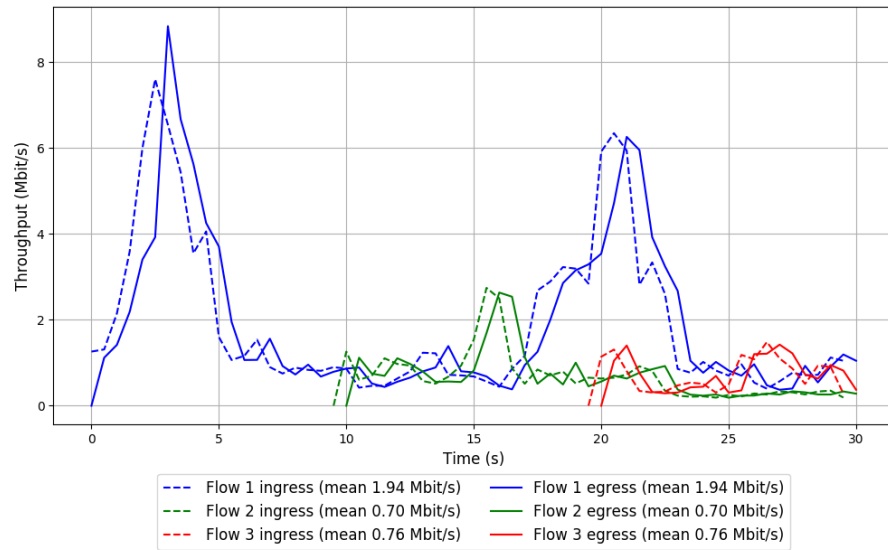
Run 9: Statistics of Sprout

Start at: 2018-06-19 13:46:38  
End at: 2018-06-19 13:47:08  
Local clock offset: -0.028 ms  
Remote clock offset: 0.037 ms

```
# Below is generated by plot.py at 2018-06-19 16:17:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.66 Mbit/s
95th percentile per-packet one-way delay: 64.287 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 64.324 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.70 Mbit/s
95th percentile per-packet one-way delay: 64.199 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.76 Mbit/s
95th percentile per-packet one-way delay: 64.076 ms
Loss rate: 0.00%
```



## Run 9: Report of Sprout — Data Link

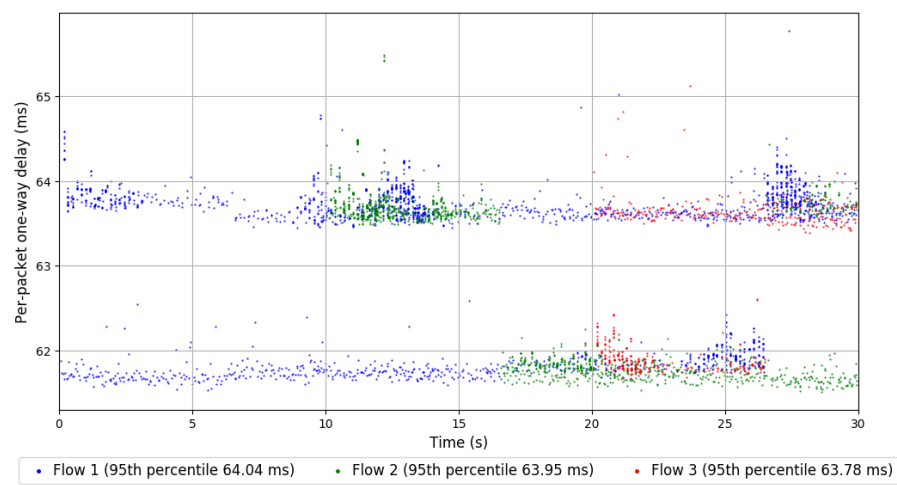
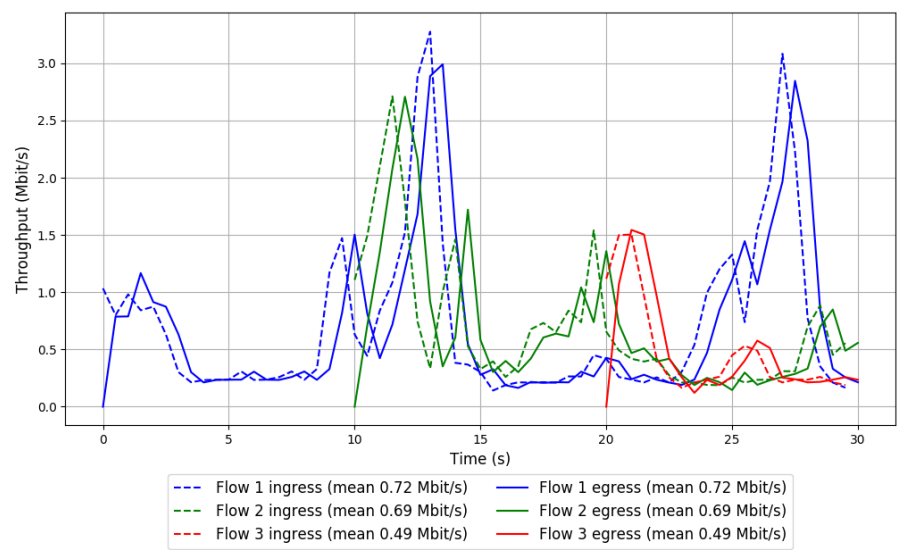


Run 10: Statistics of Sprout

Start at: 2018-06-19 14:09:22  
End at: 2018-06-19 14:09:52  
Local clock offset: -0.013 ms  
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2018-06-19 16:17:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.35 Mbit/s  
95th percentile per-packet one-way delay: 63.997 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.72 Mbit/s  
95th percentile per-packet one-way delay: 64.036 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.69 Mbit/s  
95th percentile per-packet one-way delay: 63.947 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.49 Mbit/s  
95th percentile per-packet one-way delay: 63.781 ms  
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

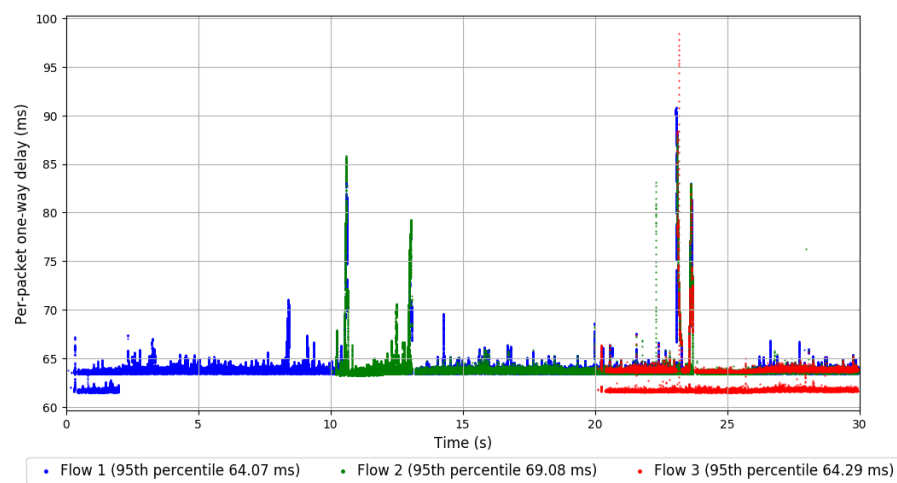
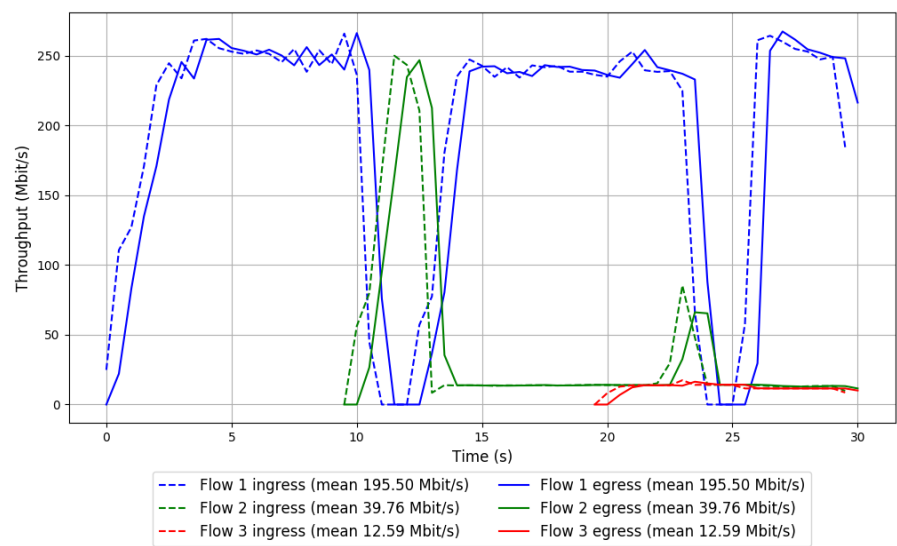


Run 1: Statistics of TaoVA-100x

Start at: 2018-06-19 10:48:56  
End at: 2018-06-19 10:49:26  
Local clock offset: -0.244 ms  
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2018-06-19 16:20:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 226.29 Mbit/s  
95th percentile per-packet one-way delay: 64.170 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 195.50 Mbit/s  
95th percentile per-packet one-way delay: 64.067 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 39.76 Mbit/s  
95th percentile per-packet one-way delay: 69.075 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 12.59 Mbit/s  
95th percentile per-packet one-way delay: 64.294 ms  
Loss rate: 0.00%

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

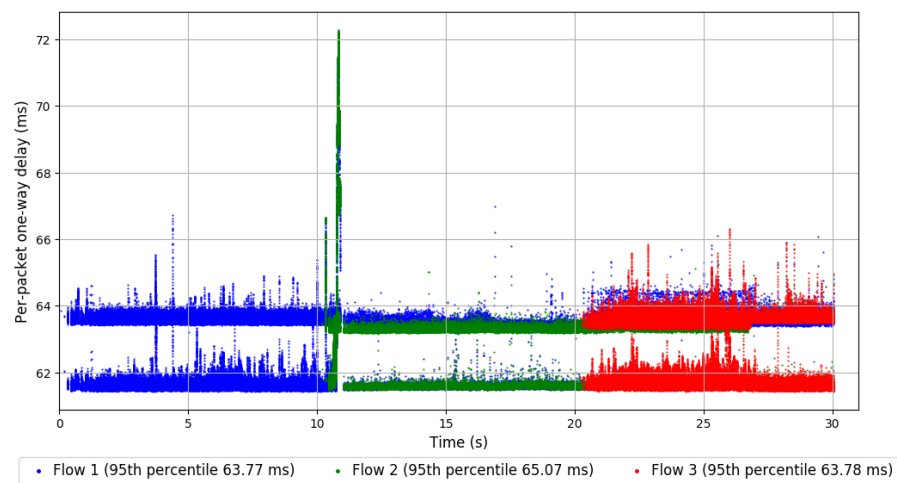
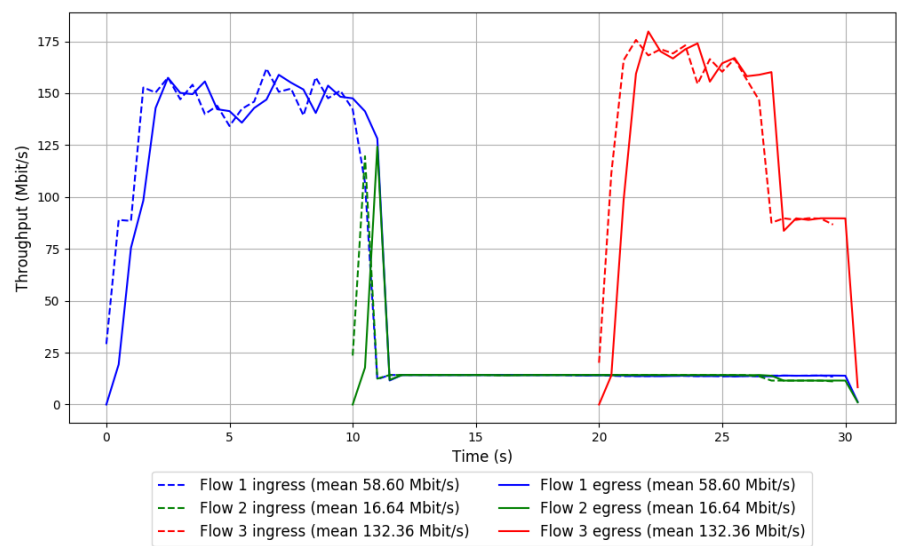


Run 2: Statistics of TaoVA-100x

Start at: 2018-06-19 11:11:31  
End at: 2018-06-19 11:12:01  
Local clock offset: -0.317 ms  
Remote clock offset: -0.178 ms

# Below is generated by plot.py at 2018-06-19 16:20:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 113.67 Mbit/s  
95th percentile per-packet one-way delay: 63.775 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 58.60 Mbit/s  
95th percentile per-packet one-way delay: 63.769 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 16.64 Mbit/s  
95th percentile per-packet one-way delay: 65.074 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 132.36 Mbit/s  
95th percentile per-packet one-way delay: 63.777 ms  
Loss rate: 0.00%

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



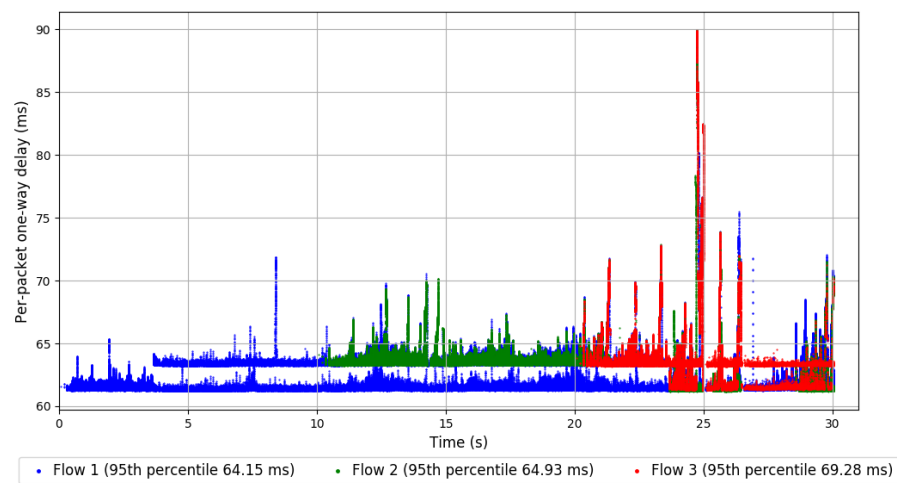
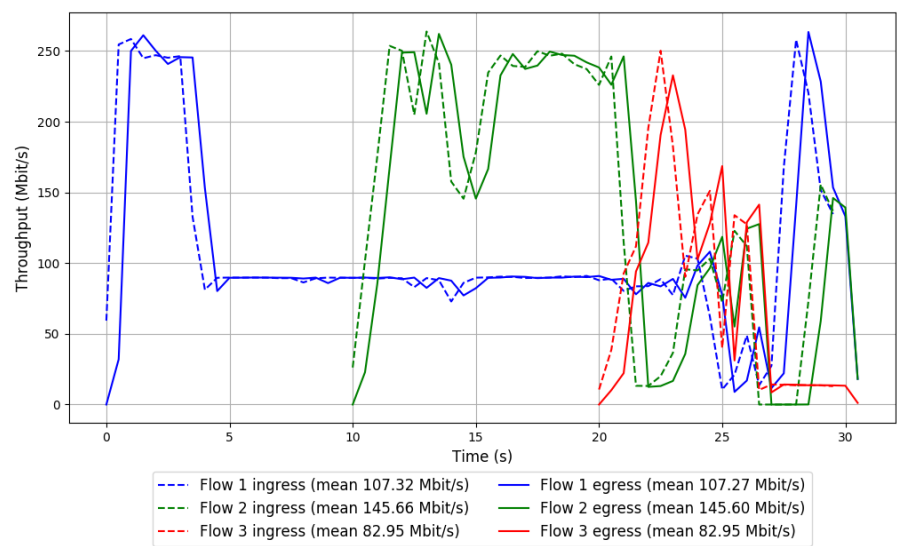
Run 3: Statistics of TaoVA-100x

Start at: 2018-06-19 11:33:54  
End at: 2018-06-19 11:34:24  
Local clock offset: -0.335 ms  
Remote clock offset: -0.398 ms

# Below is generated by plot.py at 2018-06-19 16:20:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 231.79 Mbit/s  
95th percentile per-packet one-way delay: 64.858 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 107.27 Mbit/s  
95th percentile per-packet one-way delay: 64.148 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 145.60 Mbit/s  
95th percentile per-packet one-way delay: 64.930 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 82.95 Mbit/s  
95th percentile per-packet one-way delay: 69.281 ms  
Loss rate: 0.01%



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

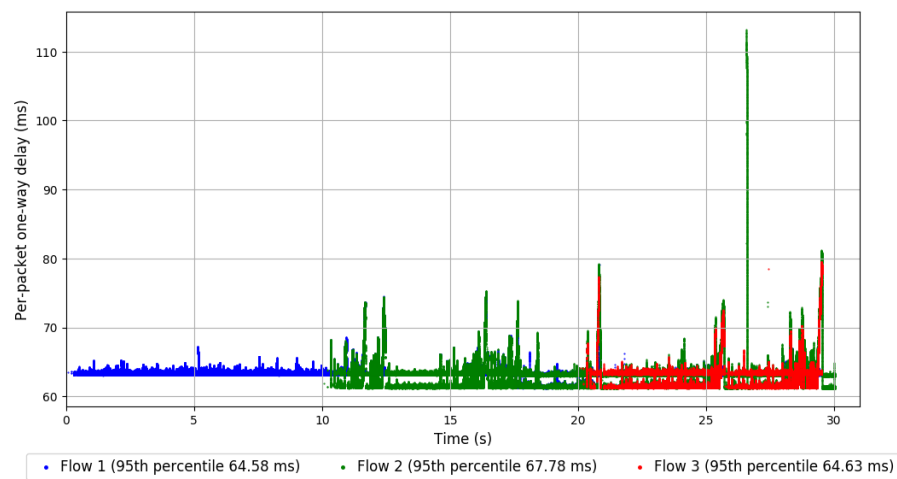
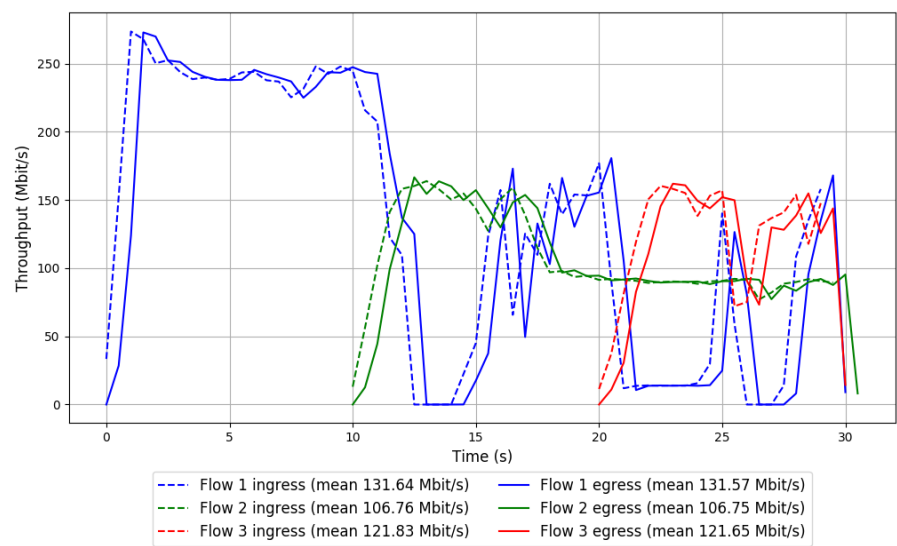


Run 4: Statistics of TaoVA-100x

Start at: 2018-06-19 11:56:21  
End at: 2018-06-19 11:56:51  
Local clock offset: 0.127 ms  
Remote clock offset: -0.269 ms

# Below is generated by plot.py at 2018-06-19 16:22:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 238.77 Mbit/s  
95th percentile per-packet one-way delay: 65.667 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 131.57 Mbit/s  
95th percentile per-packet one-way delay: 64.579 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 106.75 Mbit/s  
95th percentile per-packet one-way delay: 67.778 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 121.65 Mbit/s  
95th percentile per-packet one-way delay: 64.628 ms  
Loss rate: 0.00%

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

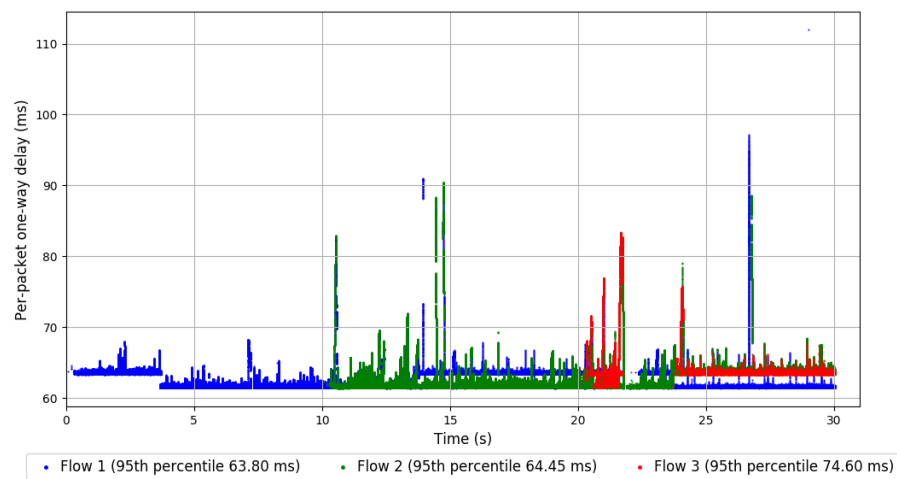
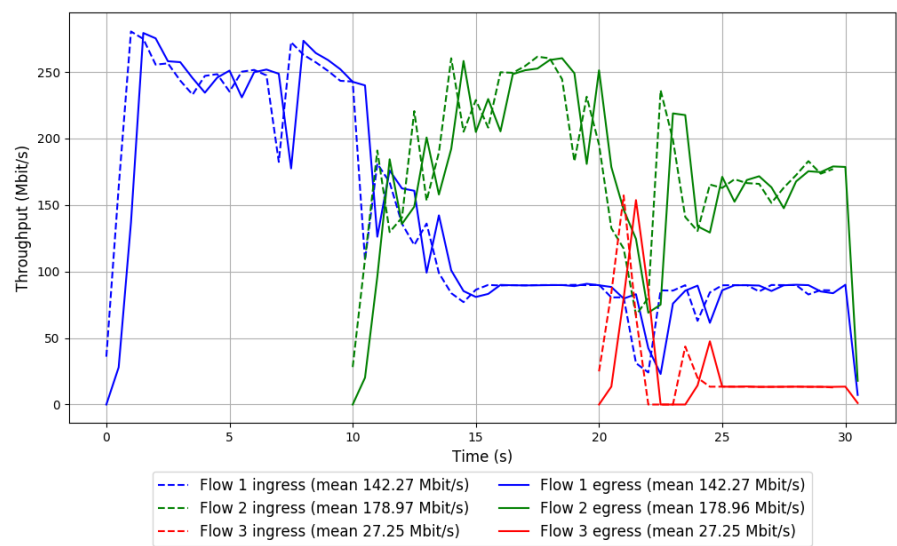


Run 5: Statistics of TaoVA-100x

Start at: 2018-06-19 12:19:04  
End at: 2018-06-19 12:19:34  
Local clock offset: 0.109 ms  
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2018-06-19 16:23:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 270.54 Mbit/s  
95th percentile per-packet one-way delay: 64.144 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 142.27 Mbit/s  
95th percentile per-packet one-way delay: 63.803 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 178.96 Mbit/s  
95th percentile per-packet one-way delay: 64.447 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 27.25 Mbit/s  
95th percentile per-packet one-way delay: 74.600 ms  
Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-06-19 12:41:41

End at: 2018-06-19 12:42:11

Local clock offset: -0.011 ms

Remote clock offset: -0.23 ms

# Below is generated by plot.py at 2018-06-19 16:23:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 212.15 Mbit/s

95th percentile per-packet one-way delay: 67.065 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 100.05 Mbit/s

95th percentile per-packet one-way delay: 64.686 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 105.36 Mbit/s

95th percentile per-packet one-way delay: 67.425 ms

Loss rate: 0.00%

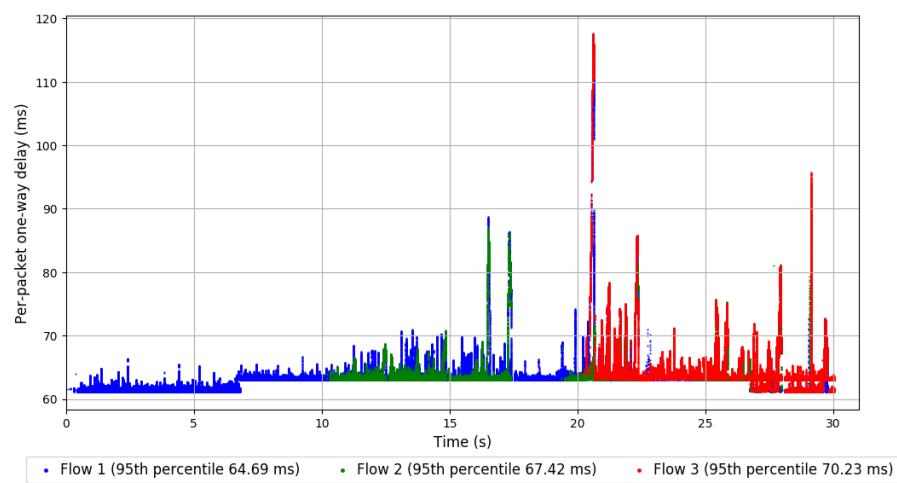
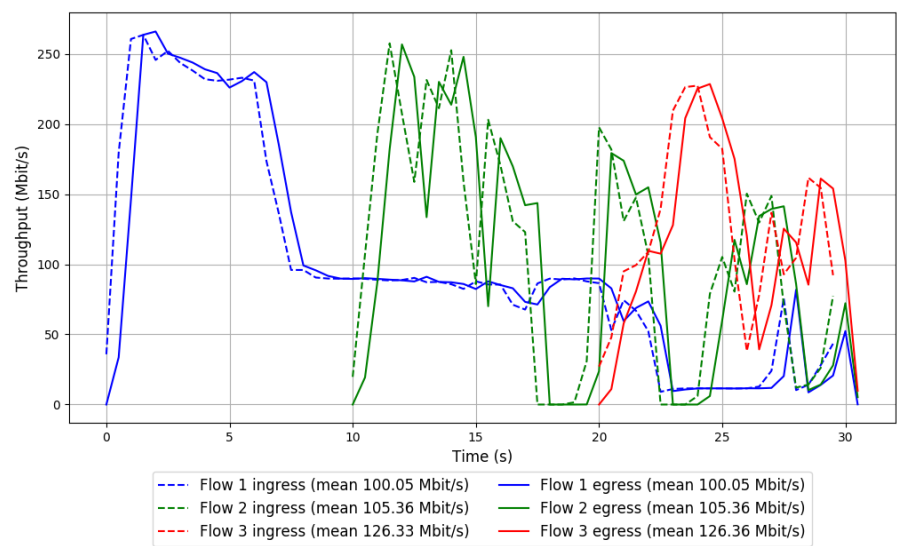
-- Flow 3:

Average throughput: 126.36 Mbit/s

95th percentile per-packet one-way delay: 70.231 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-06-19 13:04:08

End at: 2018-06-19 13:04:38

Local clock offset: 0.267 ms

Remote clock offset: 0.013 ms

# Below is generated by plot.py at 2018-06-19 16:23:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 197.66 Mbit/s

95th percentile per-packet one-way delay: 64.715 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 99.63 Mbit/s

95th percentile per-packet one-way delay: 64.941 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 97.71 Mbit/s

95th percentile per-packet one-way delay: 63.681 ms

Loss rate: 0.00%

-- Flow 3:

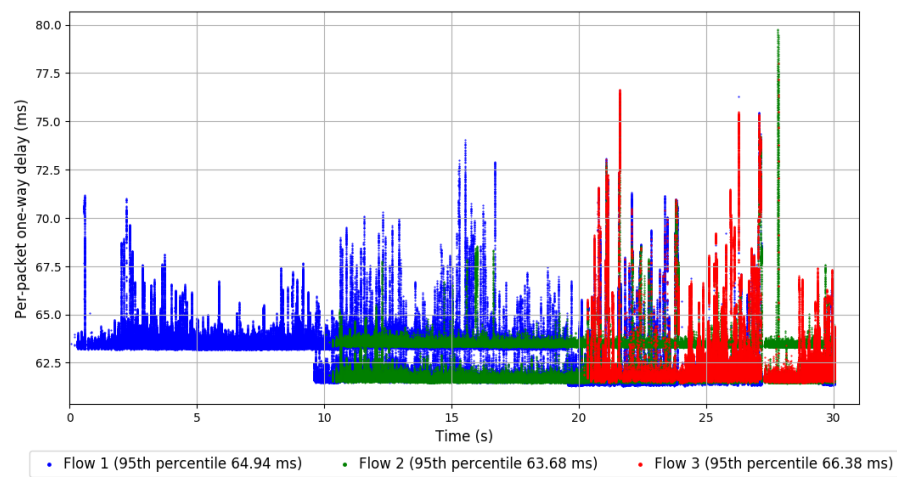
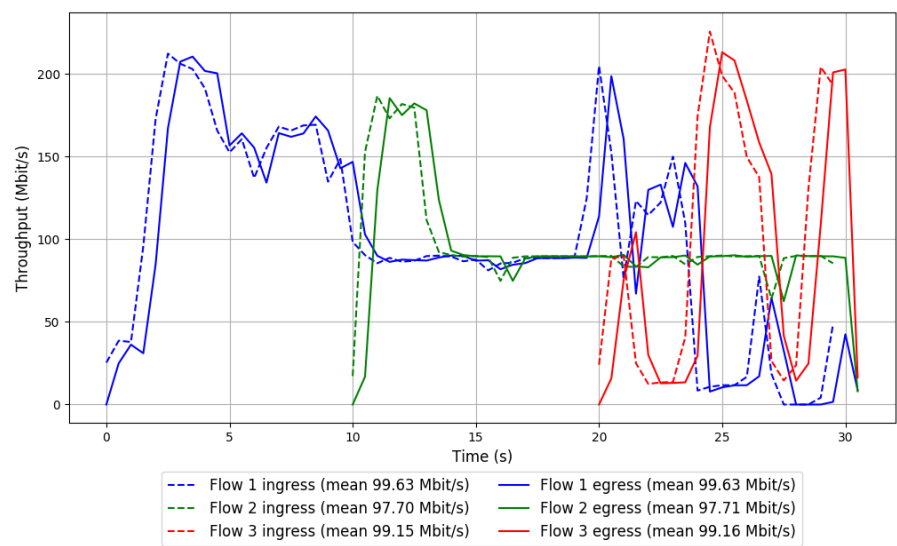
Average throughput: 99.16 Mbit/s

95th percentile per-packet one-way delay: 66.376 ms

Loss rate: 0.00%



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

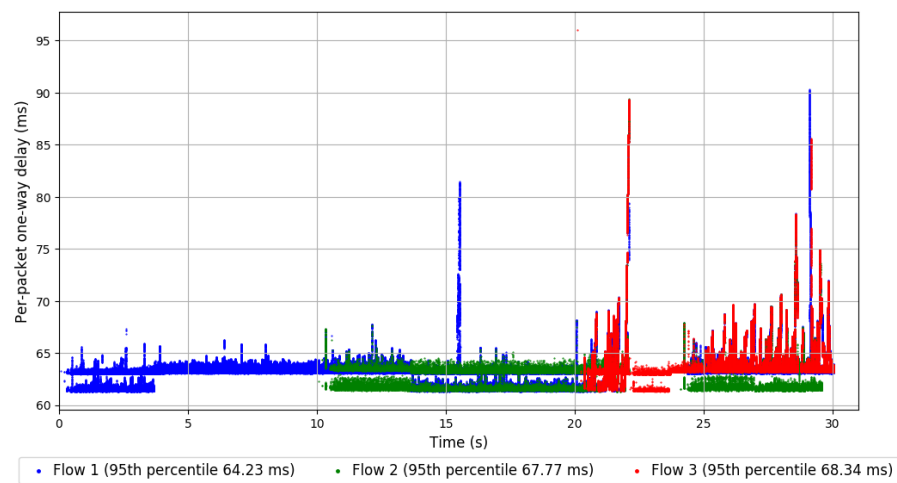
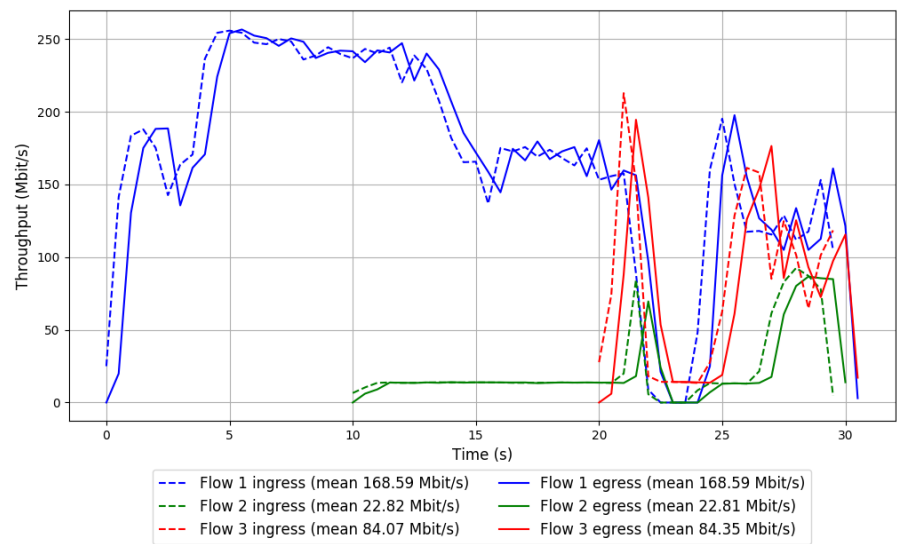


Run 8: Statistics of TaoVA-100x

Start at: 2018-06-19 13:26:44  
End at: 2018-06-19 13:27:14  
Local clock offset: 0.143 ms  
Remote clock offset: -0.283 ms

# Below is generated by plot.py at 2018-06-19 16:24:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 211.36 Mbit/s  
95th percentile per-packet one-way delay: 65.360 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 168.59 Mbit/s  
95th percentile per-packet one-way delay: 64.235 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 22.81 Mbit/s  
95th percentile per-packet one-way delay: 67.769 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 84.35 Mbit/s  
95th percentile per-packet one-way delay: 68.336 ms  
Loss rate: 0.00%

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

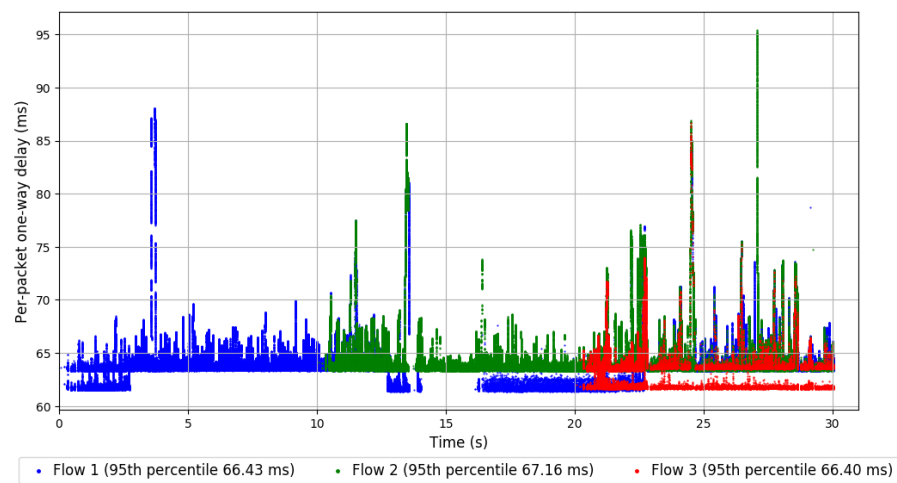
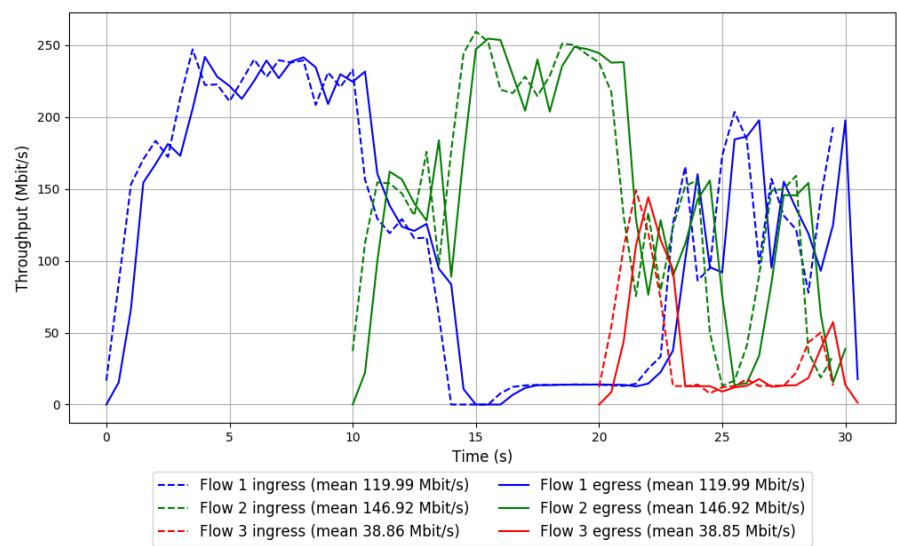


Run 9: Statistics of TaoVA-100x

Start at: 2018-06-19 13:49:15  
End at: 2018-06-19 13:49:45  
Local clock offset: 0.006 ms  
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2018-06-19 16:27:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 230.53 Mbit/s  
95th percentile per-packet one-way delay: 66.724 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 119.99 Mbit/s  
95th percentile per-packet one-way delay: 66.430 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 146.92 Mbit/s  
95th percentile per-packet one-way delay: 67.155 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 38.85 Mbit/s  
95th percentile per-packet one-way delay: 66.400 ms  
Loss rate: 0.00%

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

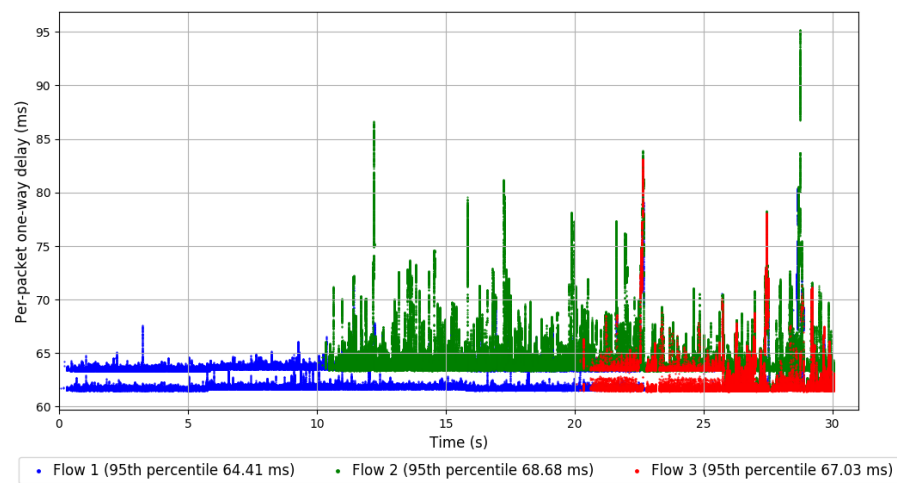
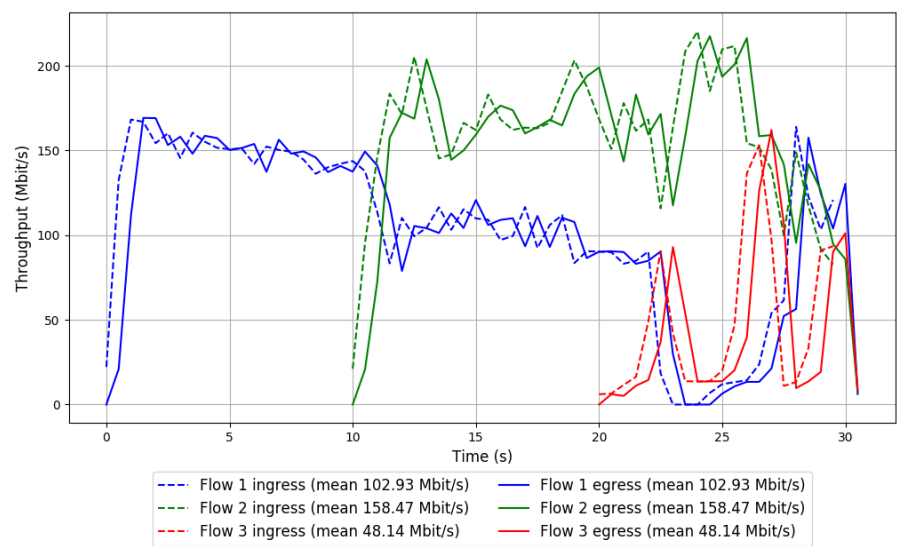


Run 10: Statistics of TaoVA-100x

Start at: 2018-06-19 14:12:02  
End at: 2018-06-19 14:12:32  
Local clock offset: -0.043 ms  
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2018-06-19 16:28:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 224.46 Mbit/s  
95th percentile per-packet one-way delay: 67.036 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 102.93 Mbit/s  
95th percentile per-packet one-way delay: 64.408 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 158.47 Mbit/s  
95th percentile per-packet one-way delay: 68.680 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 48.14 Mbit/s  
95th percentile per-packet one-way delay: 67.034 ms  
Loss rate: 0.00%

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



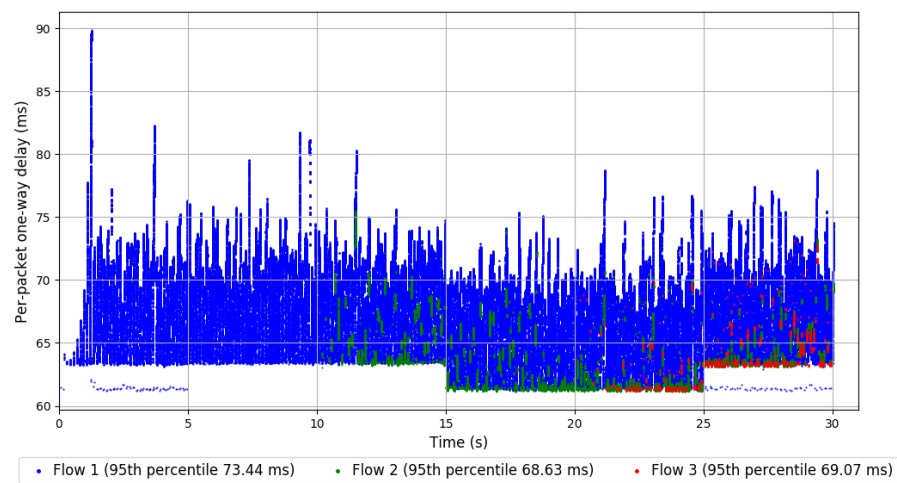
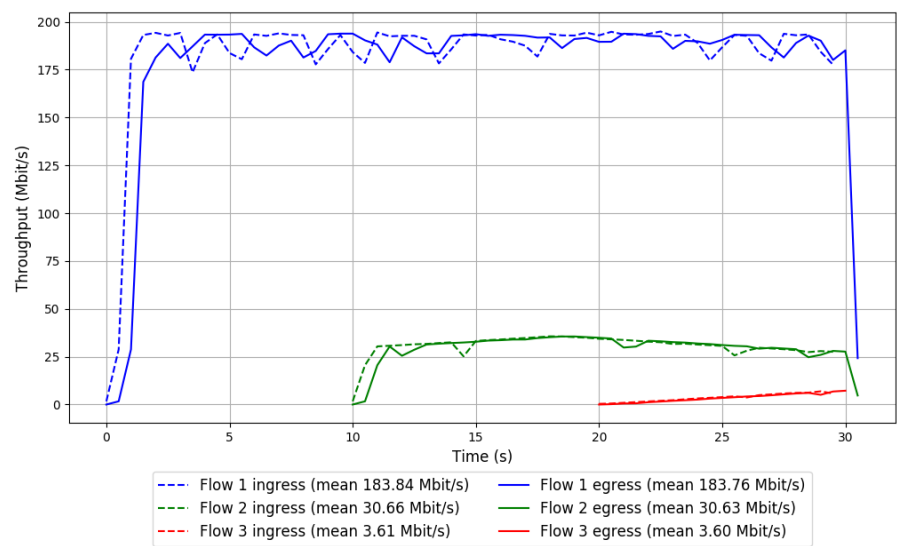
Run 1: Statistics of TCP Vegas

Start at: 2018-06-19 11:03:03  
End at: 2018-06-19 11:03:33  
Local clock offset: -0.29 ms  
Remote clock offset: -0.456 ms

# Below is generated by plot.py at 2018-06-19 16:28:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 205.29 Mbit/s  
95th percentile per-packet one-way delay: 73.253 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 183.76 Mbit/s  
95th percentile per-packet one-way delay: 73.443 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 30.63 Mbit/s  
95th percentile per-packet one-way delay: 68.631 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 3.60 Mbit/s  
95th percentile per-packet one-way delay: 69.067 ms  
Loss rate: 0.24%



Run 1: Report of TCP Vegas — Data Link

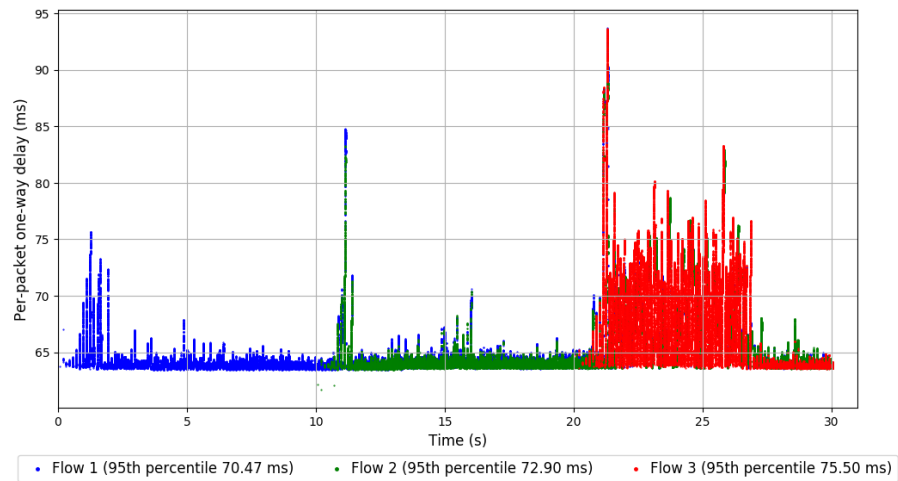
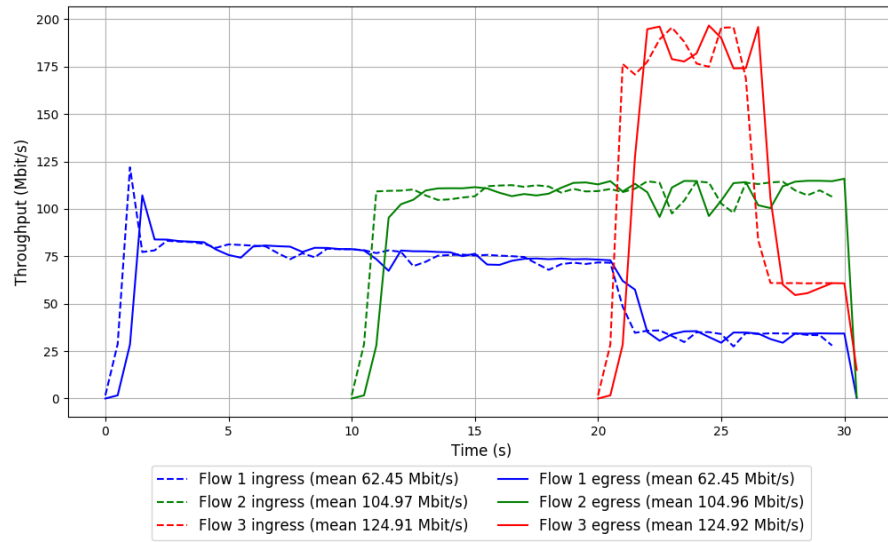


Run 2: Statistics of TCP Vegas

Start at: 2018-06-19 11:25:35  
End at: 2018-06-19 11:26:05  
Local clock offset: -0.342 ms  
Remote clock offset: -0.179 ms

# Below is generated by plot.py at 2018-06-19 16:28:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 173.75 Mbit/s  
95th percentile per-packet one-way delay: 73.747 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 62.45 Mbit/s  
95th percentile per-packet one-way delay: 70.471 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 104.96 Mbit/s  
95th percentile per-packet one-way delay: 72.901 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 124.92 Mbit/s  
95th percentile per-packet one-way delay: 75.495 ms  
Loss rate: 0.00%

## Run 2: Report of TCP Vegas — Data Link

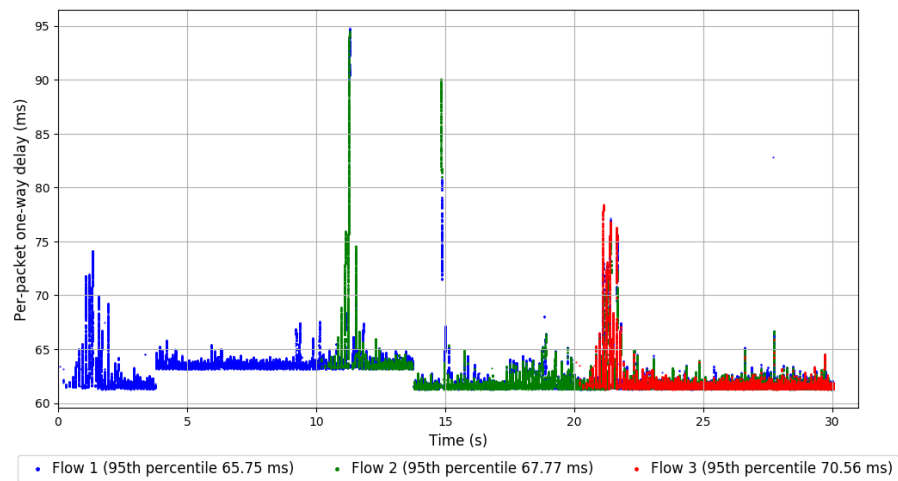
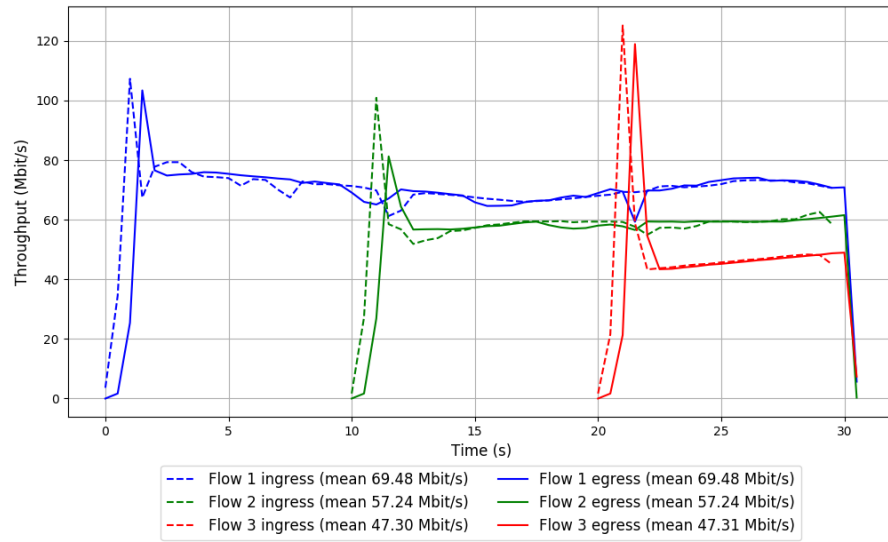


Run 3: Statistics of TCP Vegas

Start at: 2018-06-19 11:48:04  
End at: 2018-06-19 11:48:34  
Local clock offset: 0.003 ms  
Remote clock offset: -0.256 ms

# Below is generated by plot.py at 2018-06-19 16:28:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 123.28 Mbit/s  
95th percentile per-packet one-way delay: 66.557 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 69.48 Mbit/s  
95th percentile per-packet one-way delay: 65.745 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 57.24 Mbit/s  
95th percentile per-packet one-way delay: 67.773 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 47.31 Mbit/s  
95th percentile per-packet one-way delay: 70.556 ms  
Loss rate: 0.00%

### Run 3: Report of TCP Vegas — Data Link

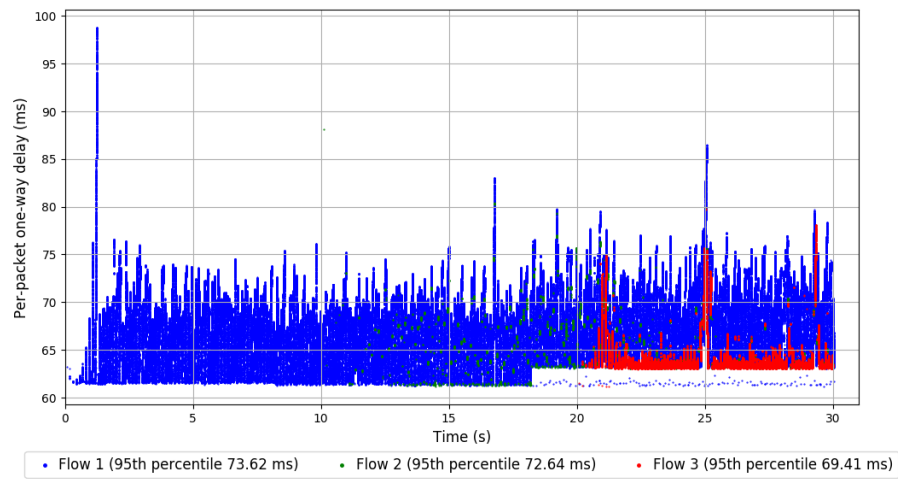
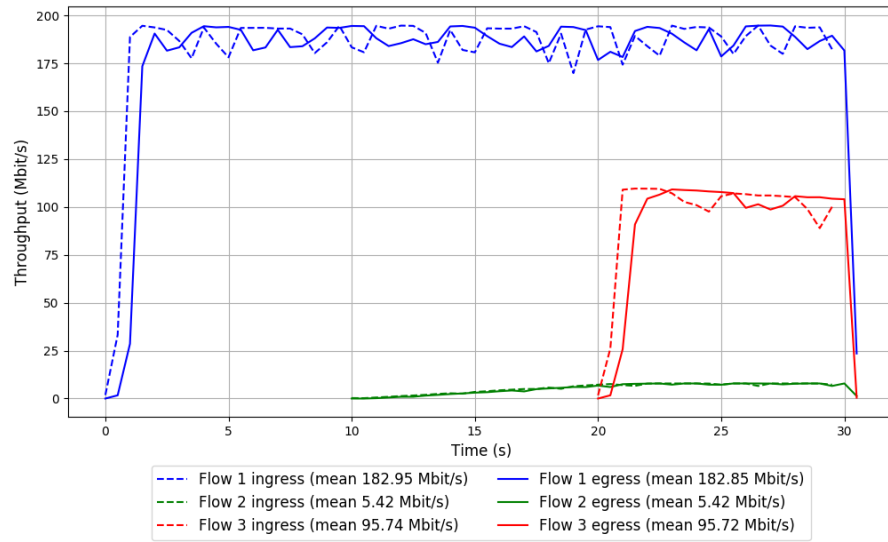


Run 4: Statistics of TCP Vegas

Start at: 2018-06-19 12:10:40  
End at: 2018-06-19 12:11:10  
Local clock offset: 0.224 ms  
Remote clock offset: -0.283 ms

# Below is generated by plot.py at 2018-06-19 16:28:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 218.20 Mbit/s  
95th percentile per-packet one-way delay: 73.368 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 182.85 Mbit/s  
95th percentile per-packet one-way delay: 73.619 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 5.42 Mbit/s  
95th percentile per-packet one-way delay: 72.637 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 95.72 Mbit/s  
95th percentile per-packet one-way delay: 69.406 ms  
Loss rate: 0.00%

# Run 4: Report of TCP Vegas — Data Link



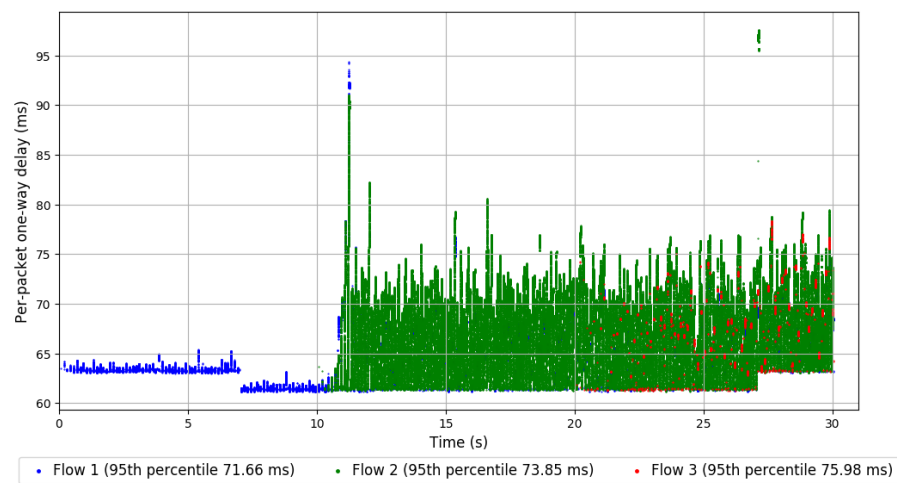
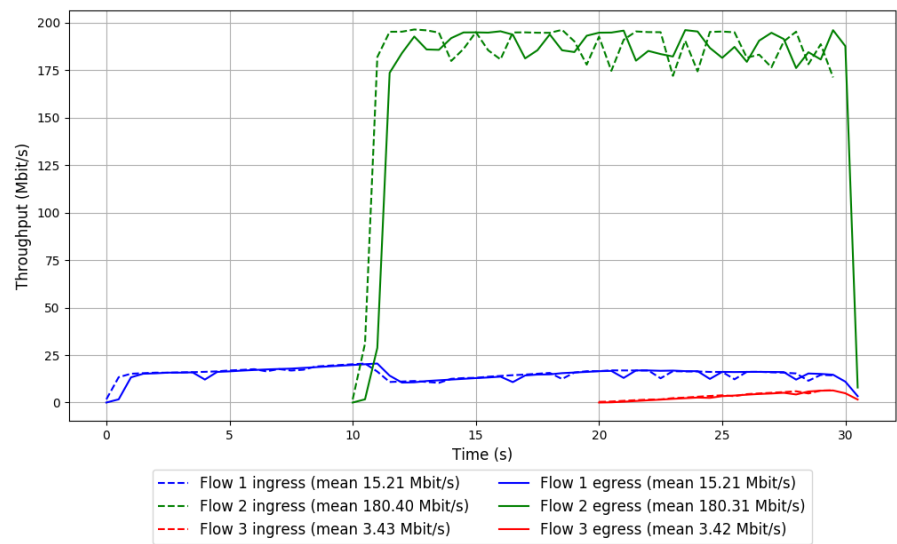
Run 5: Statistics of TCP Vegas

Start at: 2018-06-19 12:33:21  
End at: 2018-06-19 12:33:51  
Local clock offset: -0.056 ms  
Remote clock offset: -0.211 ms

# Below is generated by plot.py at 2018-06-19 16:28:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 136.35 Mbit/s  
95th percentile per-packet one-way delay: 73.707 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 15.21 Mbit/s  
95th percentile per-packet one-way delay: 71.656 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 180.31 Mbit/s  
95th percentile per-packet one-way delay: 73.850 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 3.42 Mbit/s  
95th percentile per-packet one-way delay: 75.981 ms  
Loss rate: 0.28%



Run 5: Report of TCP Vegas — Data Link

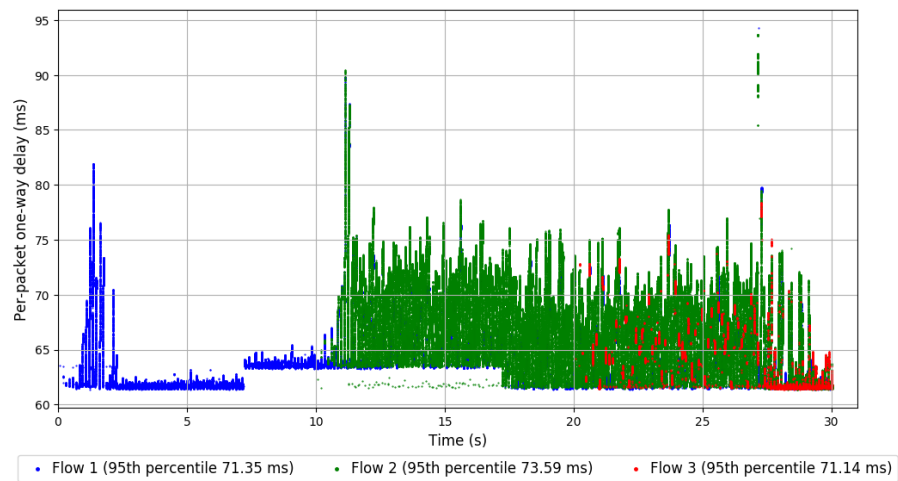
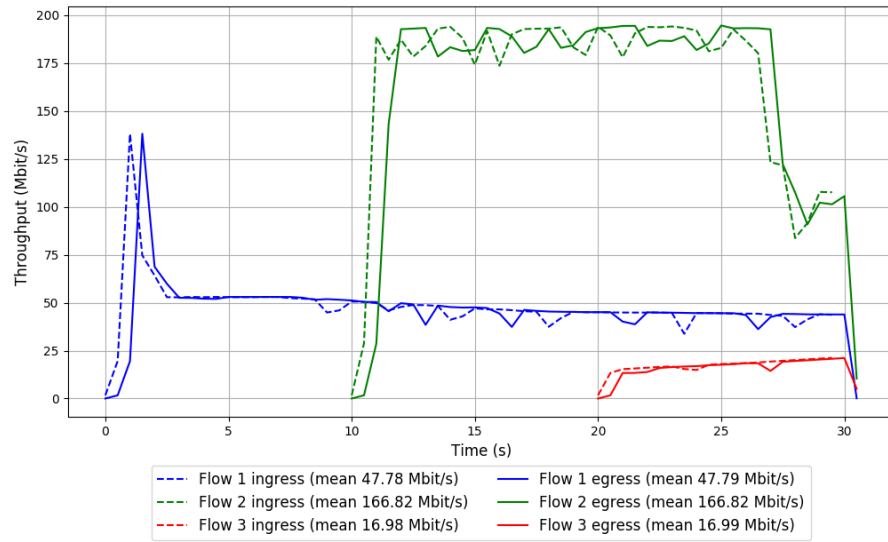


Run 6: Statistics of TCP Vegas

Start at: 2018-06-19 12:55:51  
End at: 2018-06-19 12:56:21  
Local clock offset: 0.149 ms  
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2018-06-19 16:28:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 164.50 Mbit/s  
95th percentile per-packet one-way delay: 73.218 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 47.79 Mbit/s  
95th percentile per-packet one-way delay: 71.347 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 166.82 Mbit/s  
95th percentile per-packet one-way delay: 73.593 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 16.99 Mbit/s  
95th percentile per-packet one-way delay: 71.135 ms  
Loss rate: 0.00%

## Run 6: Report of TCP Vegas — Data Link

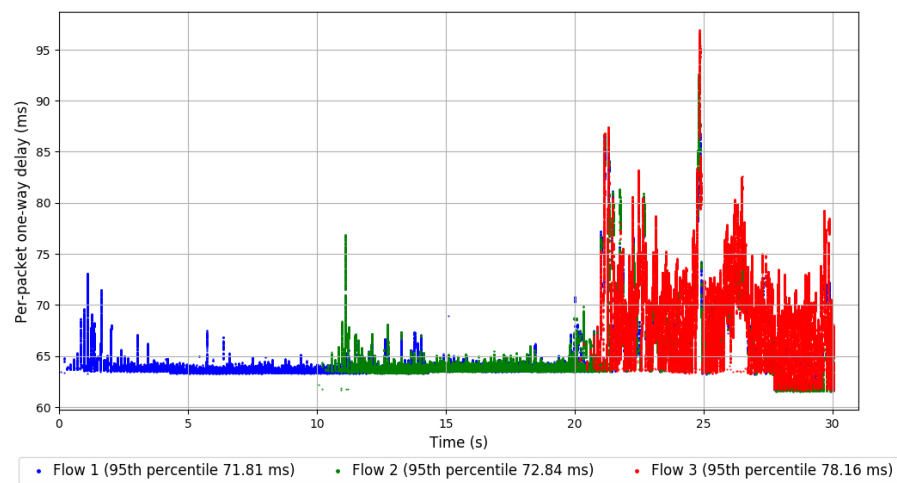
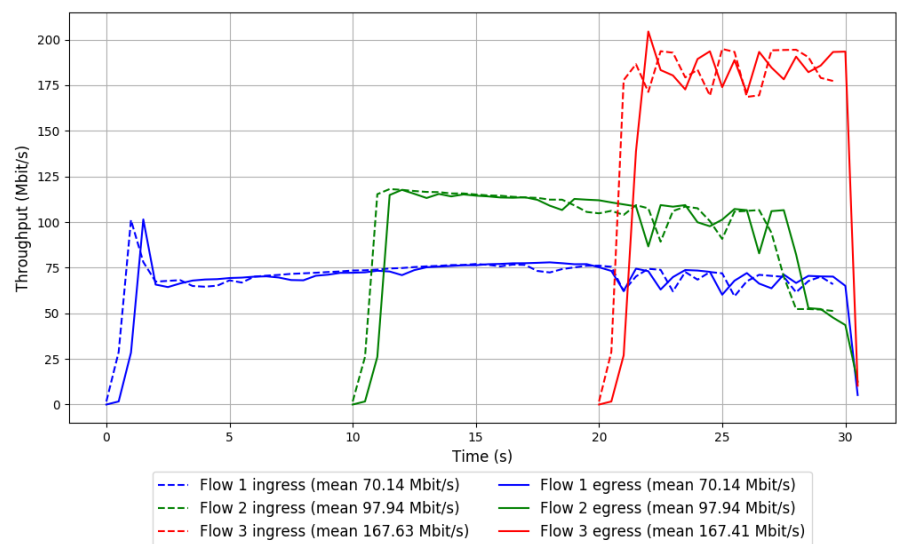


Run 7: Statistics of TCP Vegas

Start at: 2018-06-19 13:18:24  
End at: 2018-06-19 13:18:54  
Local clock offset: 0.303 ms  
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2018-06-19 16:28:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 190.92 Mbit/s  
95th percentile per-packet one-way delay: 75.431 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 70.14 Mbit/s  
95th percentile per-packet one-way delay: 71.806 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 97.94 Mbit/s  
95th percentile per-packet one-way delay: 72.843 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 167.41 Mbit/s  
95th percentile per-packet one-way delay: 78.161 ms  
Loss rate: 0.12%

Run 7: Report of TCP Vegas — Data Link

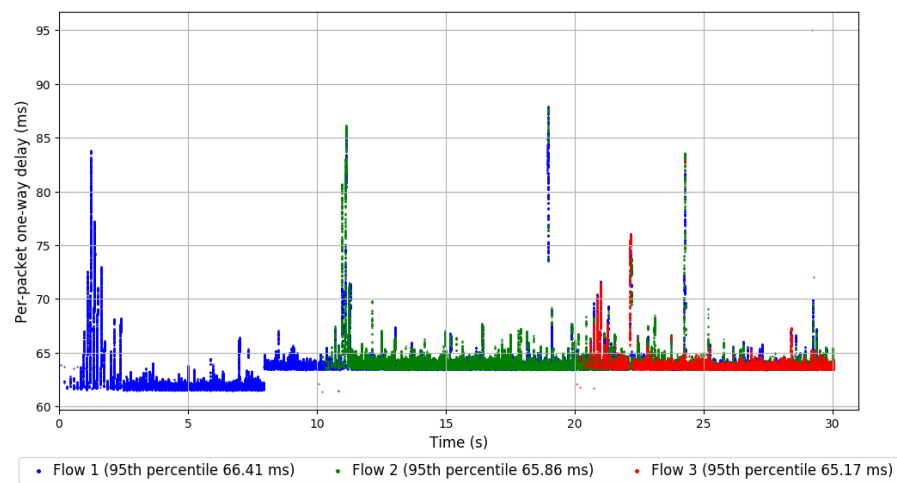
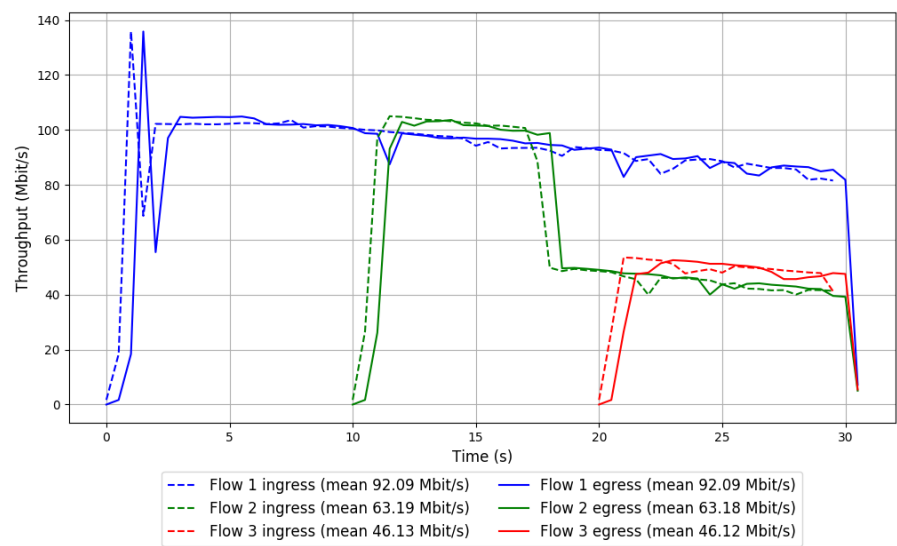


Run 8: Statistics of TCP Vegas

Start at: 2018-06-19 13:41:00  
End at: 2018-06-19 13:41:30  
Local clock offset: 0.002 ms  
Remote clock offset: -0.152 ms

# Below is generated by plot.py at 2018-06-19 16:28:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 149.48 Mbit/s  
95th percentile per-packet one-way delay: 66.087 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 92.09 Mbit/s  
95th percentile per-packet one-way delay: 66.410 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 63.18 Mbit/s  
95th percentile per-packet one-way delay: 65.855 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 46.12 Mbit/s  
95th percentile per-packet one-way delay: 65.173 ms  
Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-06-19 14:03:35

End at: 2018-06-19 14:04:05

Local clock offset: -0.023 ms

Remote clock offset: -0.2 ms

# Below is generated by plot.py at 2018-06-19 16:30:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 244.59 Mbit/s

95th percentile per-packet one-way delay: 81.395 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 138.88 Mbit/s

95th percentile per-packet one-way delay: 79.054 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 77.33 Mbit/s

95th percentile per-packet one-way delay: 80.312 ms

Loss rate: 0.00%

-- Flow 3:

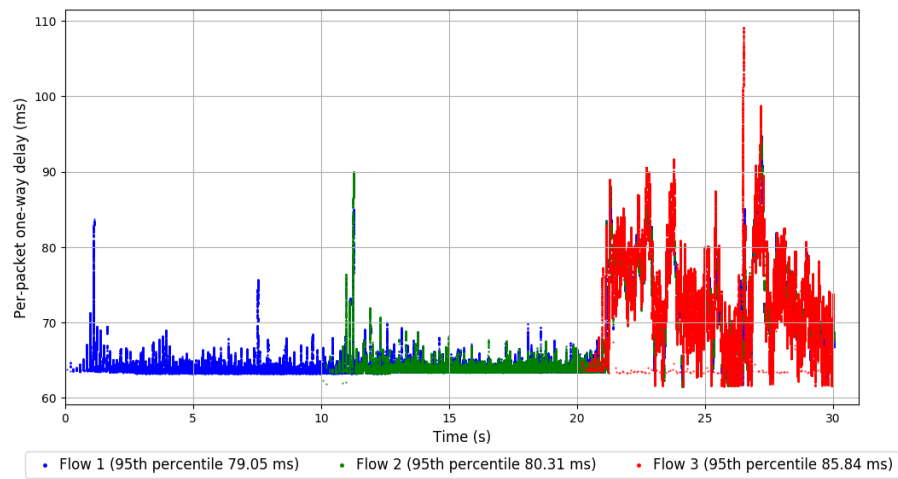
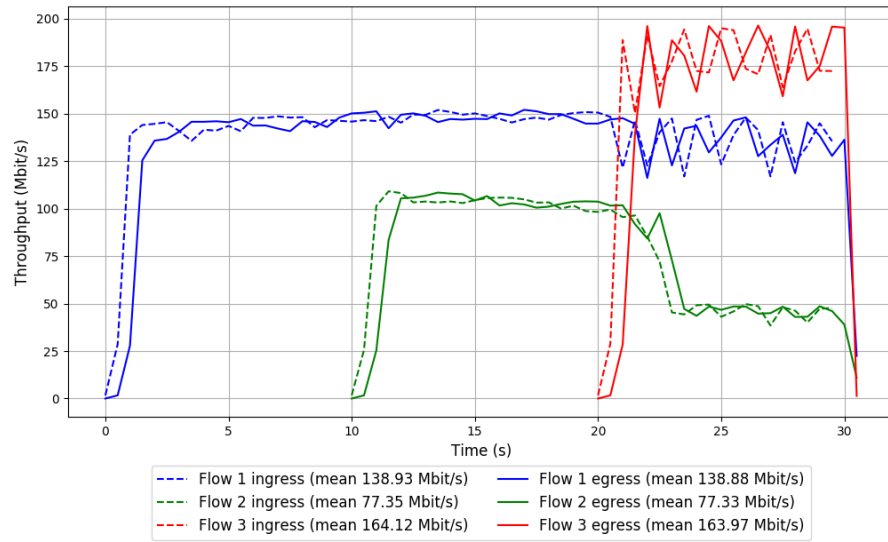
Average throughput: 163.97 Mbit/s

95th percentile per-packet one-way delay: 85.839 ms

Loss rate: 0.00%



# Run 9: Report of TCP Vegas — Data Link

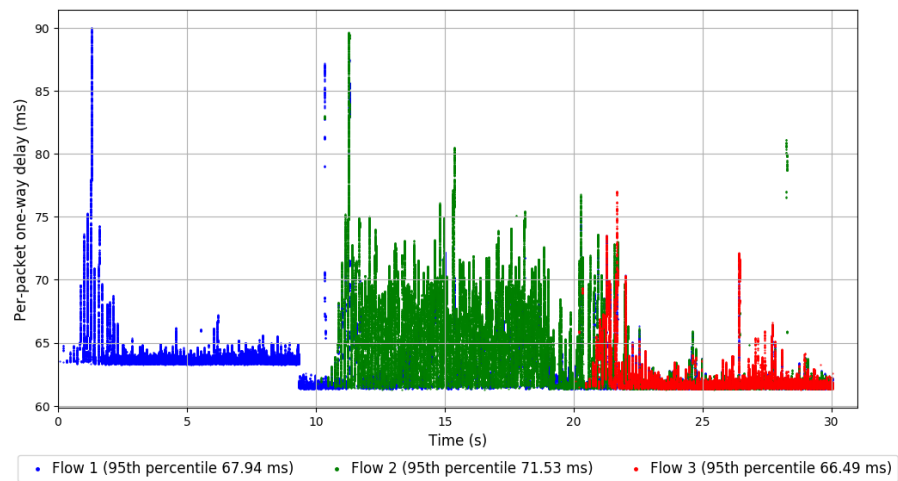
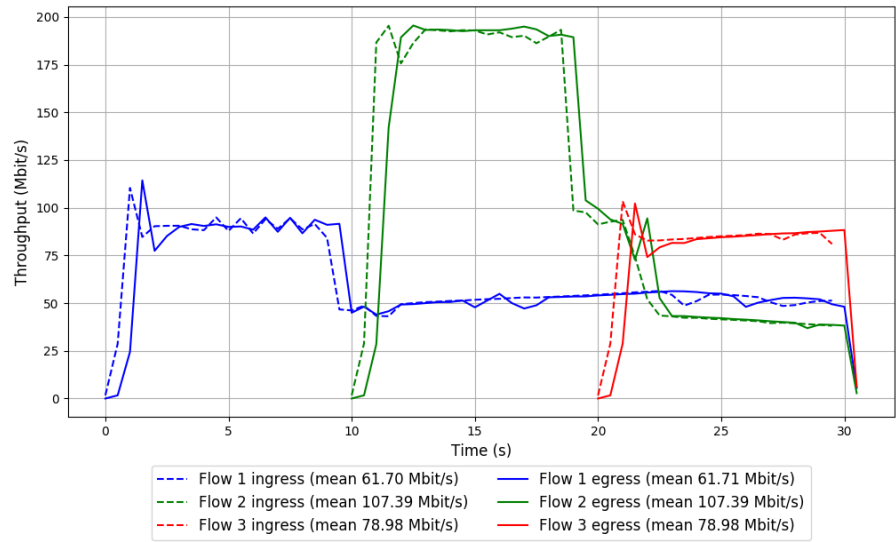


Run 10: Statistics of TCP Vegas

Start at: 2018-06-19 14:26:09  
End at: 2018-06-19 14:26:39  
Local clock offset: -0.029 ms  
Remote clock offset: -0.234 ms

# Below is generated by plot.py at 2018-06-19 16:30:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 159.33 Mbit/s  
95th percentile per-packet one-way delay: 70.563 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 61.71 Mbit/s  
95th percentile per-packet one-way delay: 67.936 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 107.39 Mbit/s  
95th percentile per-packet one-way delay: 71.532 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 78.98 Mbit/s  
95th percentile per-packet one-way delay: 66.489 ms  
Loss rate: 0.00%

# Run 10: Report of TCP Vegas — Data Link

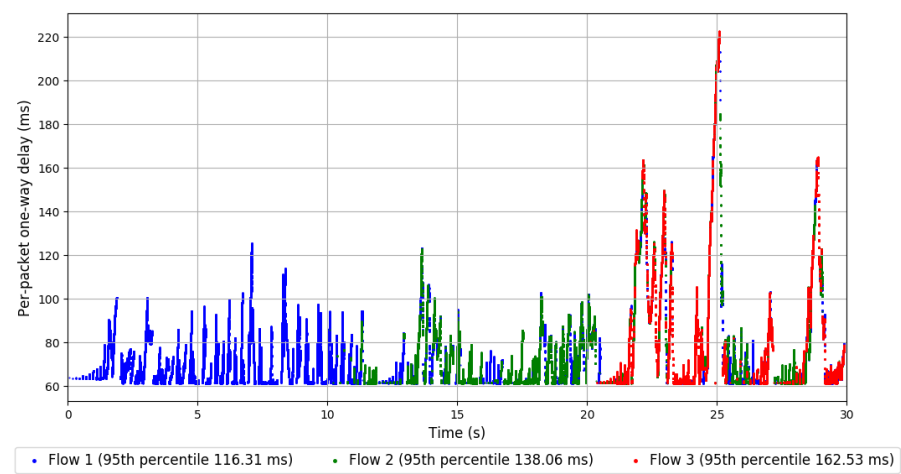
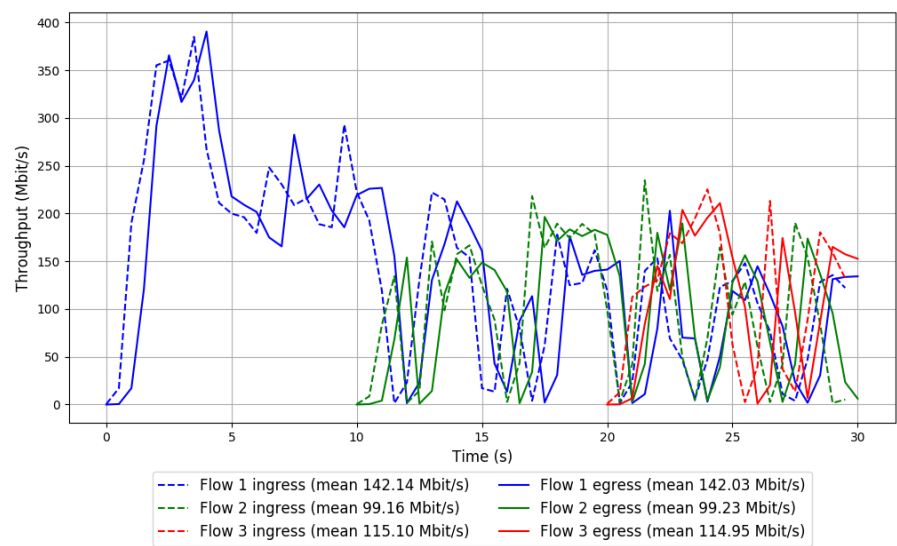


Run 1: Statistics of Verus

Start at: 2018-06-19 10:52:26  
End at: 2018-06-19 10:52:56  
Local clock offset: -0.237 ms  
Remote clock offset: -0.374 ms

# Below is generated by plot.py at 2018-06-19 16:31:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 245.36 Mbit/s  
95th percentile per-packet one-way delay: 130.455 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 142.03 Mbit/s  
95th percentile per-packet one-way delay: 116.307 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 99.23 Mbit/s  
95th percentile per-packet one-way delay: 138.058 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 114.95 Mbit/s  
95th percentile per-packet one-way delay: 162.526 ms  
Loss rate: 0.26%

Run 1: Report of Verus — Data Link

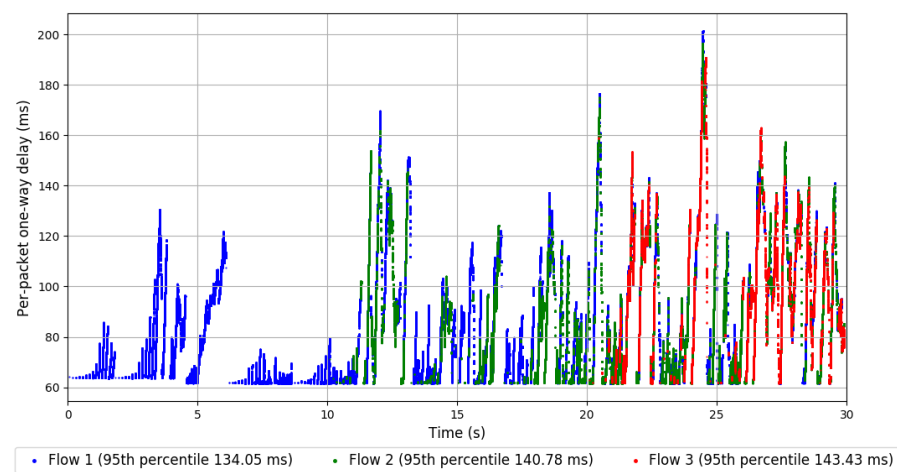
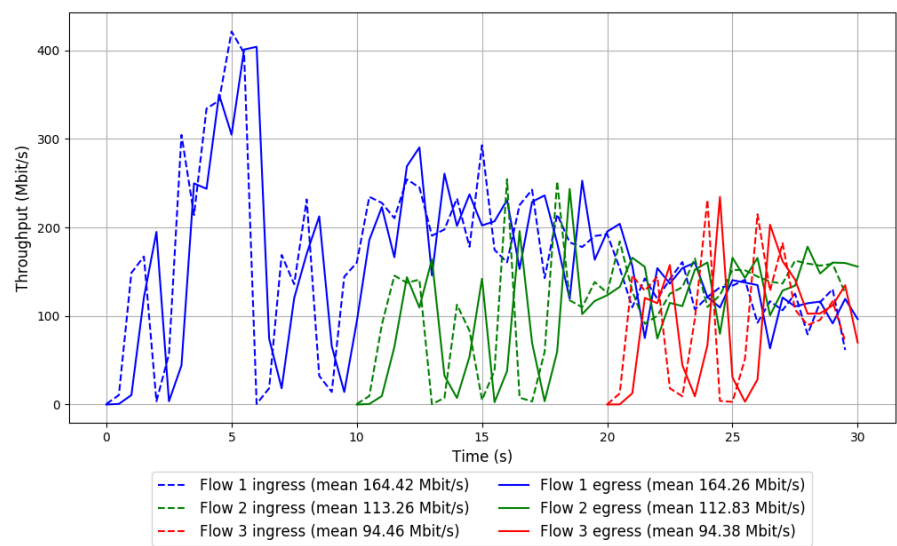


Run 2: Statistics of Verus

Start at: 2018-06-19 11:14:54  
End at: 2018-06-19 11:15:24  
Local clock offset: -0.31 ms  
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2018-06-19 16:32:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 269.58 Mbit/s  
95th percentile per-packet one-way delay: 136.896 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 164.26 Mbit/s  
95th percentile per-packet one-way delay: 134.049 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 112.83 Mbit/s  
95th percentile per-packet one-way delay: 140.780 ms  
Loss rate: 0.41%  
-- Flow 3:  
Average throughput: 94.38 Mbit/s  
95th percentile per-packet one-way delay: 143.425 ms  
Loss rate: 0.07%

Run 2: Report of Verus — Data Link



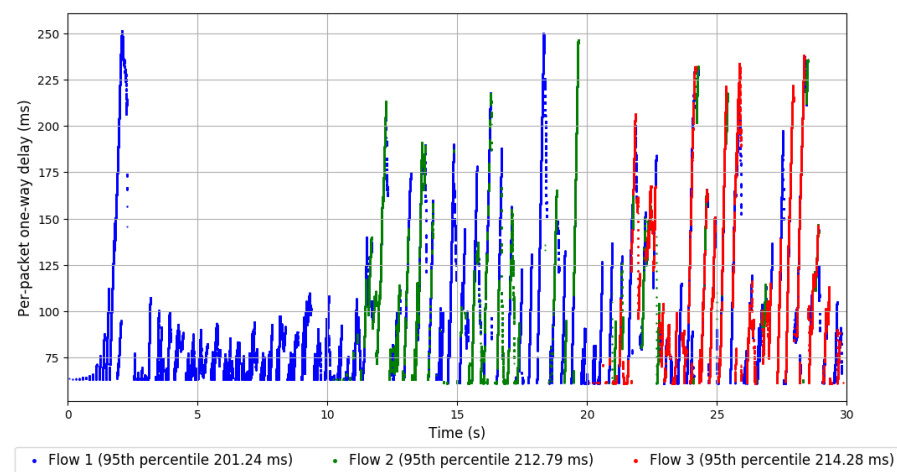
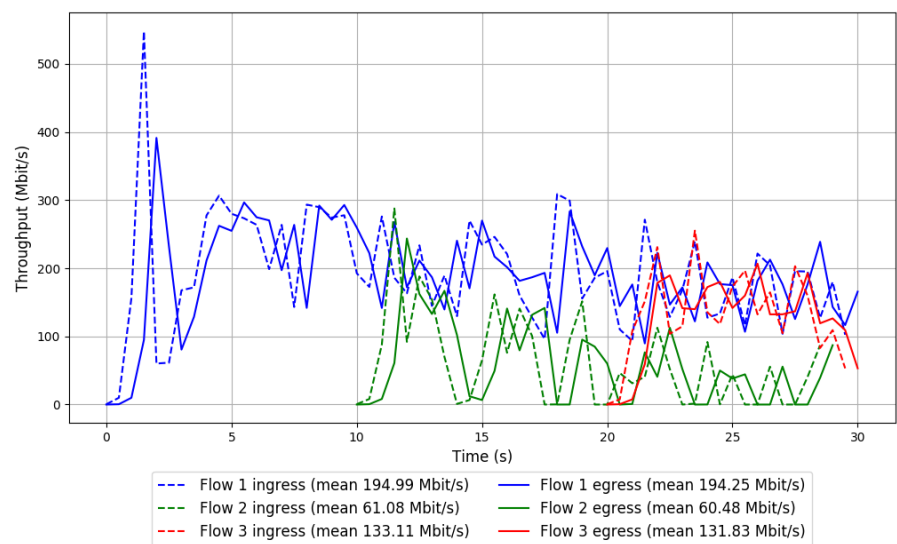
Run 3: Statistics of Verus

Start at: 2018-06-19 11:37:24  
End at: 2018-06-19 11:37:54  
Local clock offset: -0.334 ms  
Remote clock offset: -0.392 ms

# Below is generated by plot.py at 2018-06-19 16:32:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 275.27 Mbit/s  
95th percentile per-packet one-way delay: 208.233 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 194.25 Mbit/s  
95th percentile per-packet one-way delay: 201.242 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 60.48 Mbit/s  
95th percentile per-packet one-way delay: 212.792 ms  
Loss rate: 0.60%  
-- Flow 3:  
Average throughput: 131.83 Mbit/s  
95th percentile per-packet one-way delay: 214.285 ms  
Loss rate: 0.96%



Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-06-19 11:59:57

End at: 2018-06-19 12:00:27

Local clock offset: 0.167 ms

Remote clock offset: 0.13 ms

# Below is generated by plot.py at 2018-06-19 16:32:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 255.86 Mbit/s

95th percentile per-packet one-way delay: 173.812 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 184.77 Mbit/s

95th percentile per-packet one-way delay: 174.004 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 58.69 Mbit/s

95th percentile per-packet one-way delay: 170.516 ms

Loss rate: 1.11%

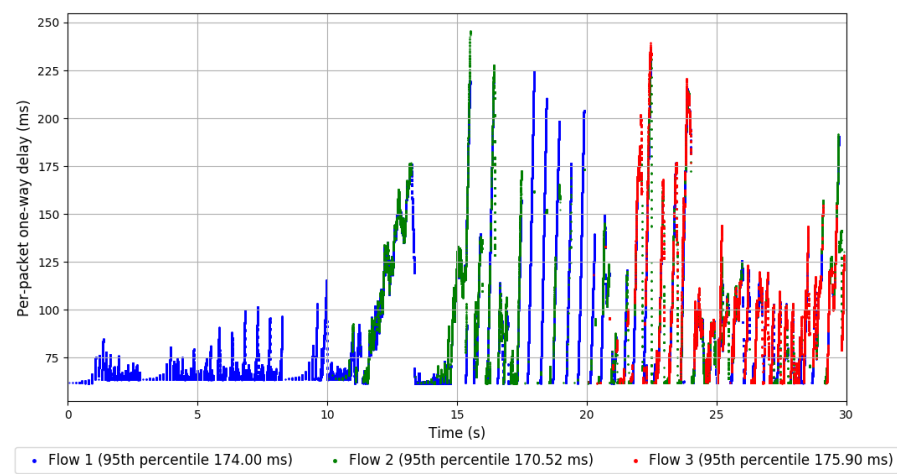
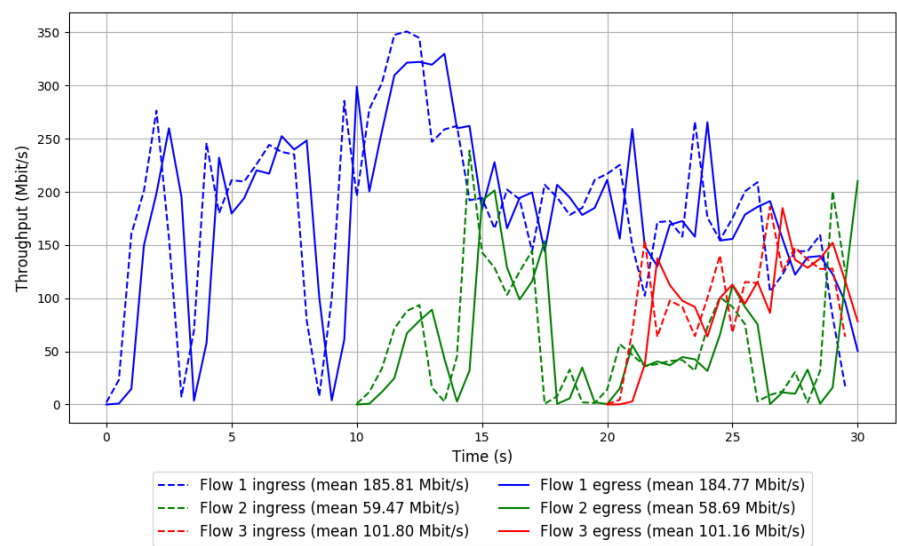
-- Flow 3:

Average throughput: 101.16 Mbit/s

95th percentile per-packet one-way delay: 175.903 ms

Loss rate: 0.57%

Run 4: Report of Verus — Data Link

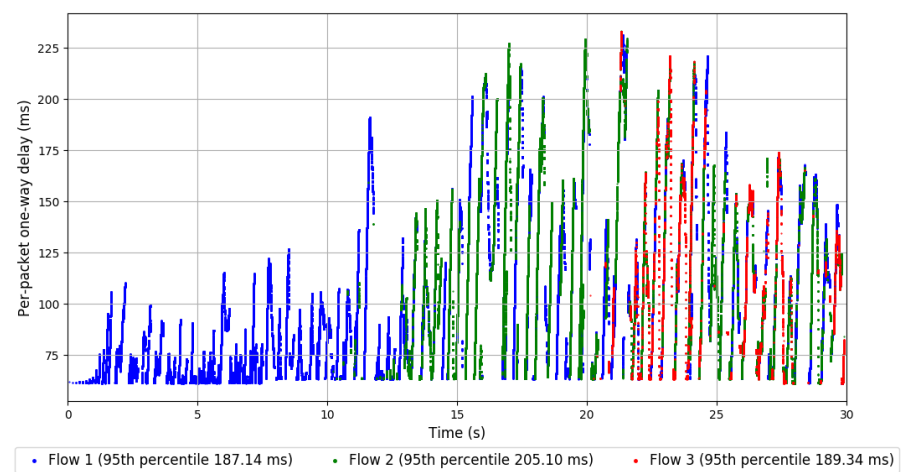
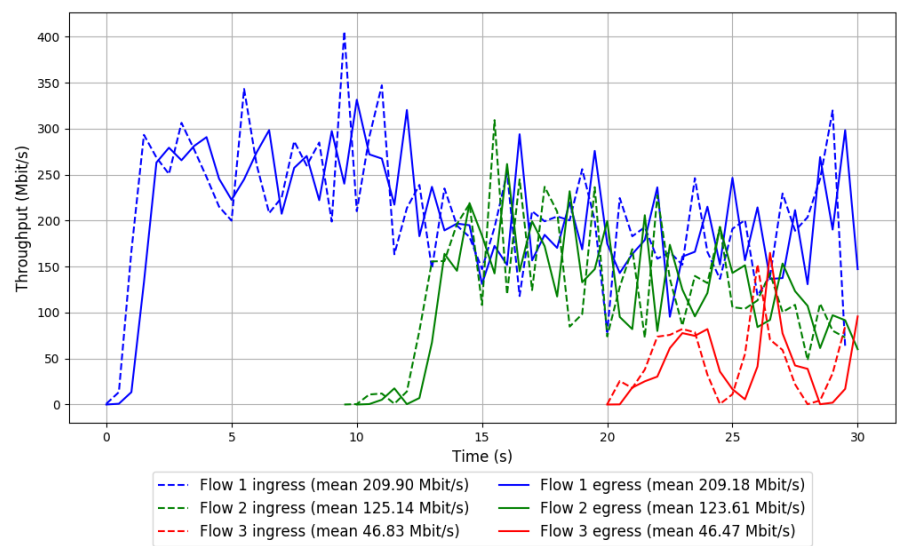


Run 5: Statistics of Verus

Start at: 2018-06-19 12:22:40  
End at: 2018-06-19 12:23:10  
Local clock offset: -0.017 ms  
Remote clock offset: -0.189 ms

# Below is generated by plot.py at 2018-06-19 16:34:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 306.26 Mbit/s  
95th percentile per-packet one-way delay: 193.593 ms  
Loss rate: 0.71%  
-- Flow 1:  
Average throughput: 209.18 Mbit/s  
95th percentile per-packet one-way delay: 187.140 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 123.61 Mbit/s  
95th percentile per-packet one-way delay: 205.098 ms  
Loss rate: 1.32%  
-- Flow 3:  
Average throughput: 46.47 Mbit/s  
95th percentile per-packet one-way delay: 189.341 ms  
Loss rate: 1.16%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-06-19 12:45:07

End at: 2018-06-19 12:45:37

Local clock offset: -0.005 ms

Remote clock offset: 0.184 ms

# Below is generated by plot.py at 2018-06-19 16:34:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 289.85 Mbit/s

95th percentile per-packet one-way delay: 212.415 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 220.83 Mbit/s

95th percentile per-packet one-way delay: 217.057 ms

Loss rate: 1.27%

-- Flow 2:

Average throughput: 77.38 Mbit/s

95th percentile per-packet one-way delay: 189.543 ms

Loss rate: 0.51%

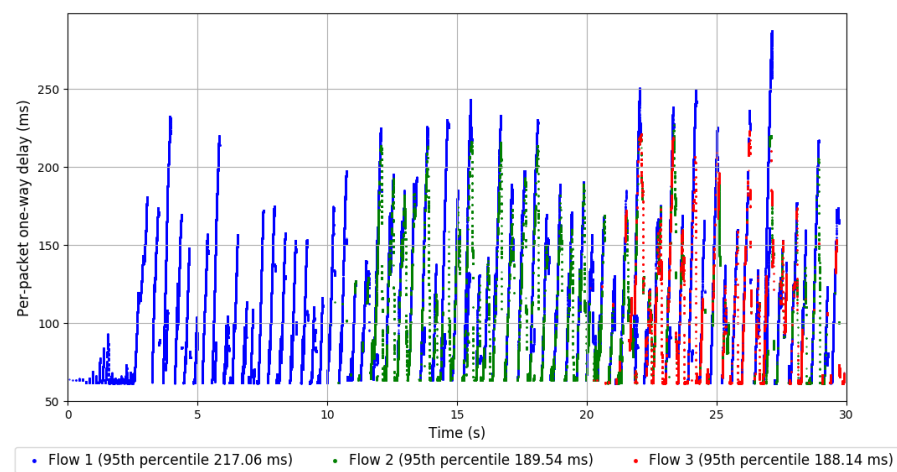
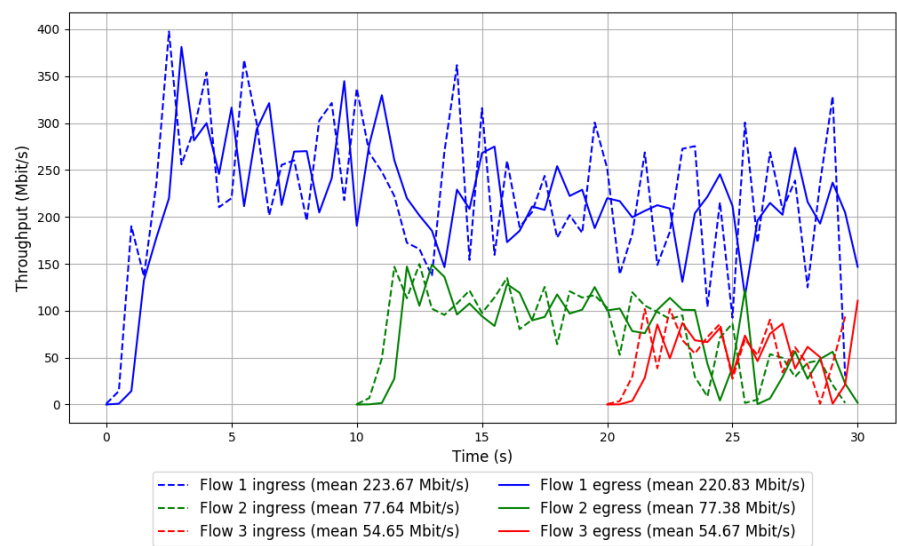
-- Flow 3:

Average throughput: 54.67 Mbit/s

95th percentile per-packet one-way delay: 188.136 ms

Loss rate: 0.57%

Run 6: Report of Verus — Data Link



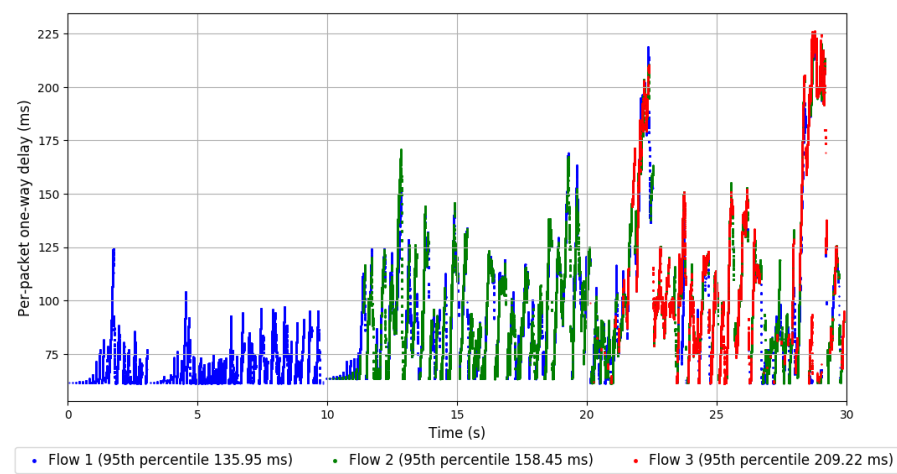
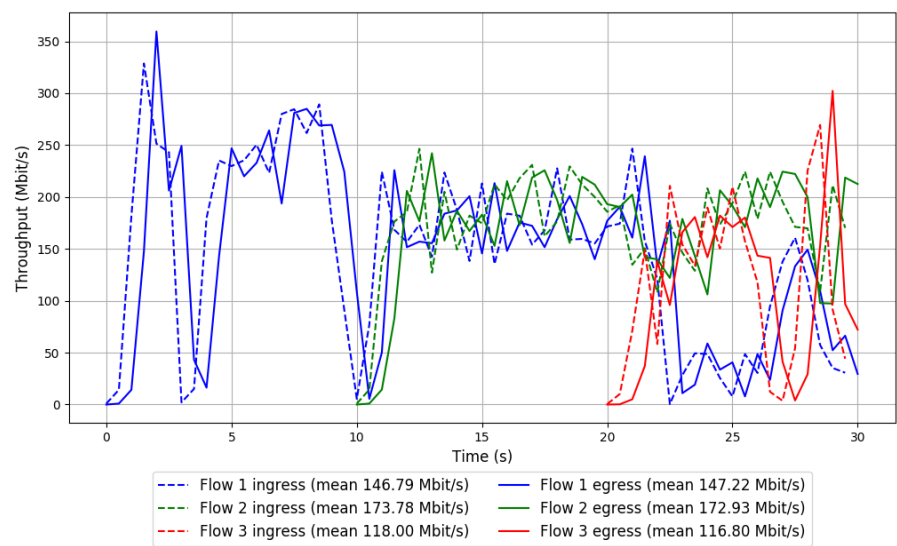
Run 7: Statistics of Verus

Start at: 2018-06-19 13:07:38  
End at: 2018-06-19 13:08:08  
Local clock offset: 0.173 ms  
Remote clock offset: -0.274 ms

# Below is generated by plot.py at 2018-06-19 16:35:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 299.71 Mbit/s  
95th percentile per-packet one-way delay: 171.065 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 147.22 Mbit/s  
95th percentile per-packet one-way delay: 135.952 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 172.93 Mbit/s  
95th percentile per-packet one-way delay: 158.454 ms  
Loss rate: 0.50%  
-- Flow 3:  
Average throughput: 116.80 Mbit/s  
95th percentile per-packet one-way delay: 209.219 ms  
Loss rate: 1.35%



Run 7: Report of Verus — Data Link

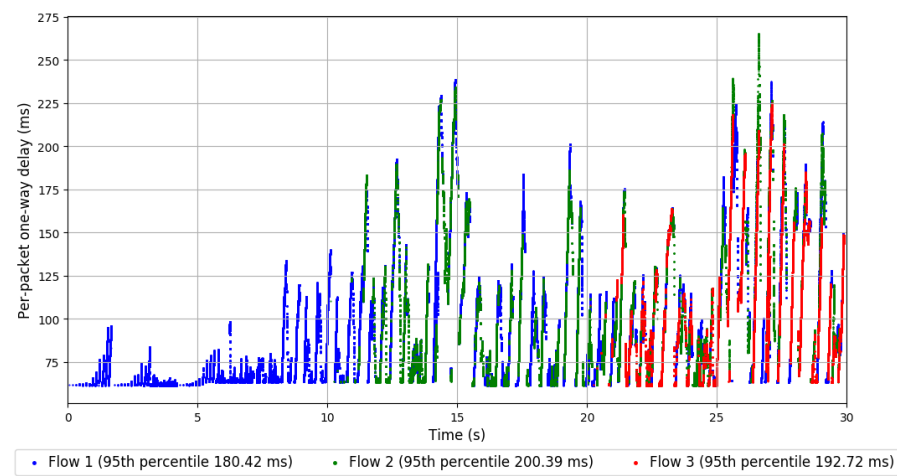
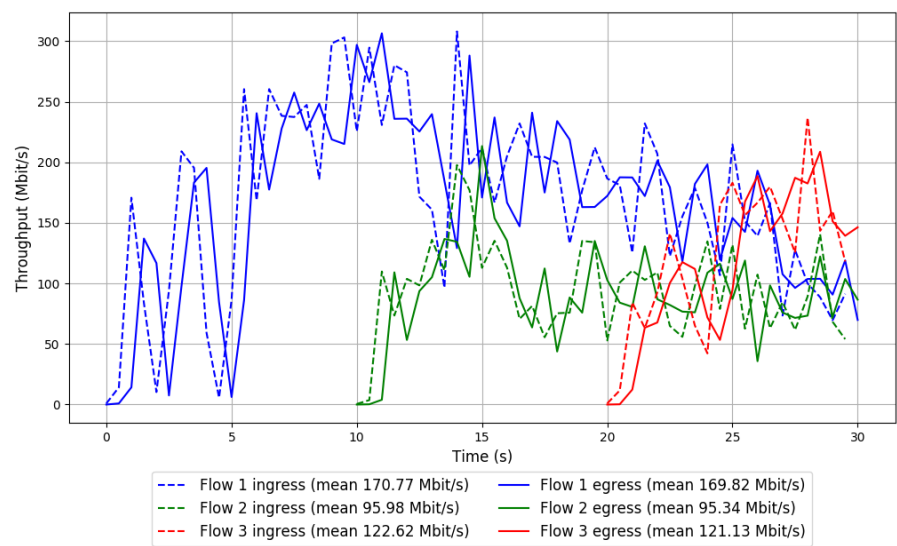


Run 8: Statistics of Verus

Start at: 2018-06-19 13:30:13  
End at: 2018-06-19 13:30:43  
Local clock offset: 0.123 ms  
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2018-06-19 16:35:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 272.18 Mbit/s  
95th percentile per-packet one-way delay: 188.079 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 169.82 Mbit/s  
95th percentile per-packet one-way delay: 180.419 ms  
Loss rate: 0.53%  
-- Flow 2:  
Average throughput: 95.34 Mbit/s  
95th percentile per-packet one-way delay: 200.390 ms  
Loss rate: 0.78%  
-- Flow 3:  
Average throughput: 121.13 Mbit/s  
95th percentile per-packet one-way delay: 192.722 ms  
Loss rate: 1.13%

Run 8: Report of Verus — Data Link

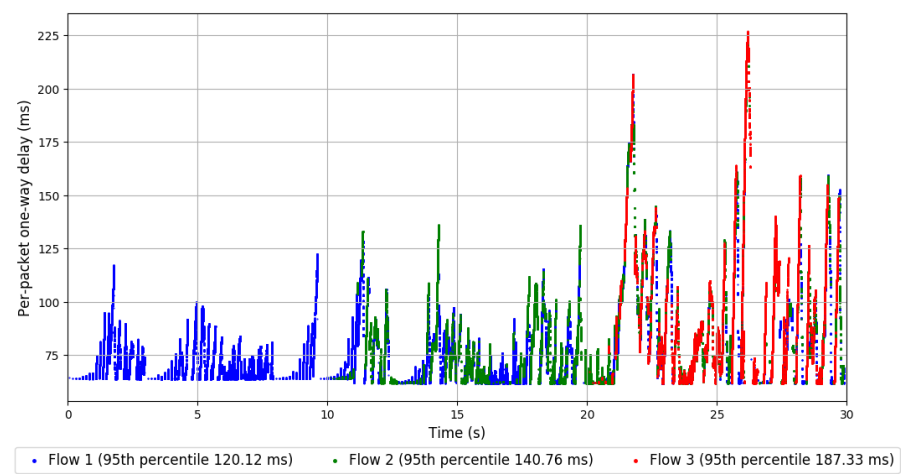
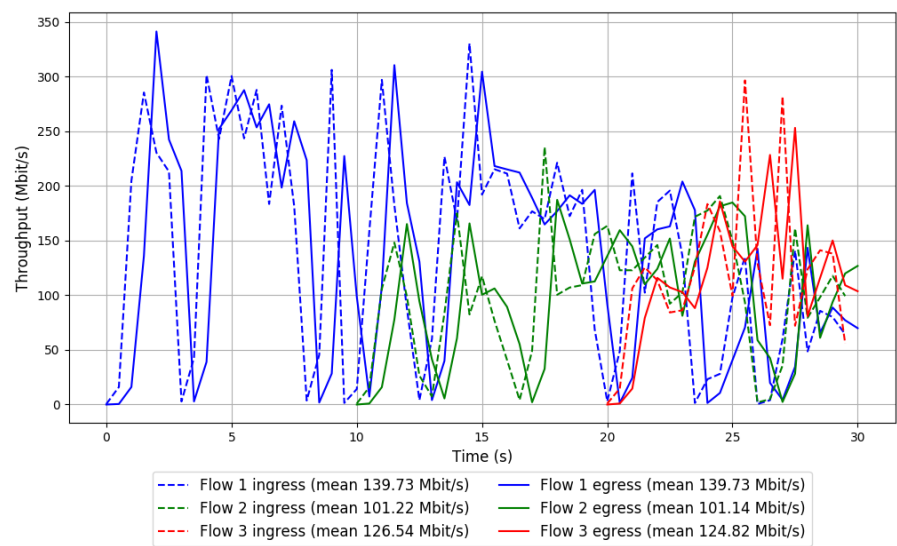


Run 9: Statistics of Verus

Start at: 2018-06-19 13:52:47  
End at: 2018-06-19 13:53:17  
Local clock offset: -0.002 ms  
Remote clock offset: 0.117 ms

```
# Below is generated by plot.py at 2018-06-19 16:36:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 247.08 Mbit/s
95th percentile per-packet one-way delay: 139.465 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 139.73 Mbit/s
95th percentile per-packet one-way delay: 120.116 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 101.14 Mbit/s
95th percentile per-packet one-way delay: 140.763 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 124.82 Mbit/s
95th percentile per-packet one-way delay: 187.333 ms
Loss rate: 0.51%
```

Run 9: Report of Verus — Data Link

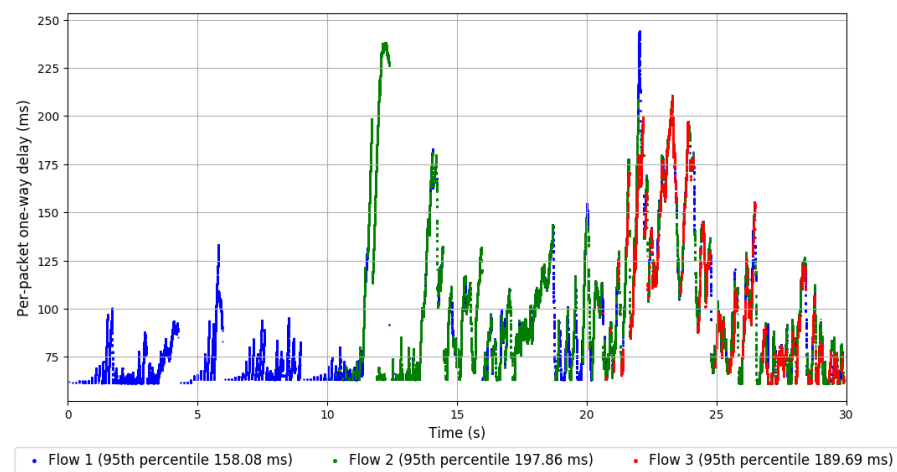
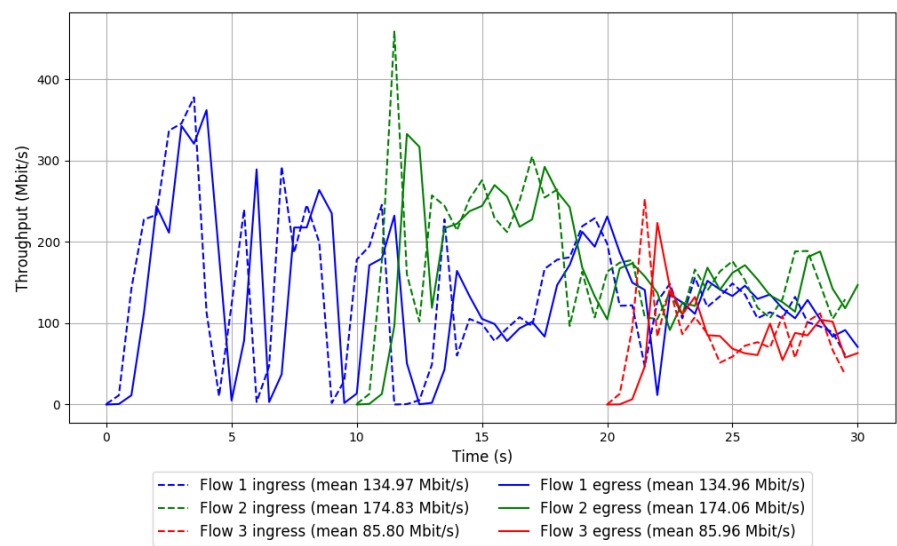


Run 10: Statistics of Verus

Start at: 2018-06-19 14:15:33  
End at: 2018-06-19 14:16:03  
Local clock offset: -0.035 ms  
Remote clock offset: -0.246 ms

# Below is generated by plot.py at 2018-06-19 16:37:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 278.78 Mbit/s  
95th percentile per-packet one-way delay: 179.066 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 134.96 Mbit/s  
95th percentile per-packet one-way delay: 158.083 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 174.06 Mbit/s  
95th percentile per-packet one-way delay: 197.863 ms  
Loss rate: 0.44%  
-- Flow 3:  
Average throughput: 85.96 Mbit/s  
95th percentile per-packet one-way delay: 189.685 ms  
Loss rate: 0.00%

Run 10: Report of Verus — Data Link



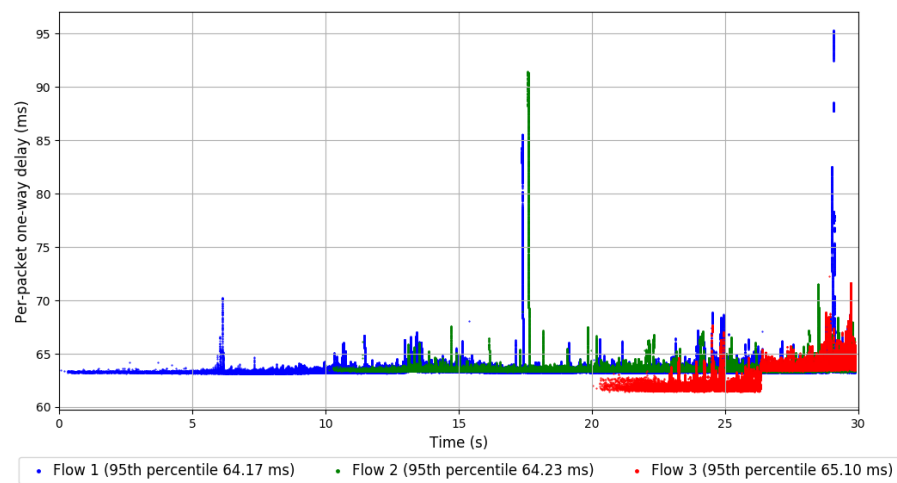
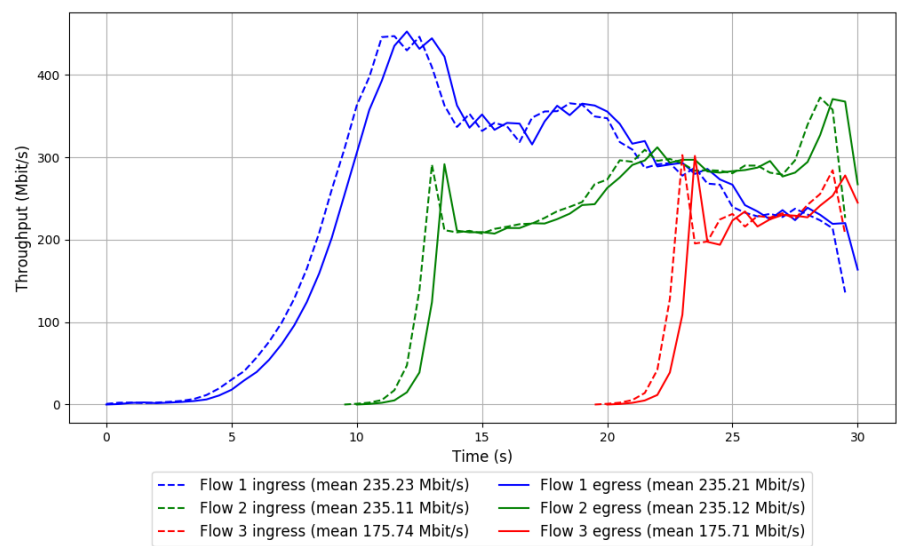
Run 1: Statistics of PCC-Vivace

Start at: 2018-06-19 10:55:01  
End at: 2018-06-19 10:55:31  
Local clock offset: -0.277 ms  
Remote clock offset: -0.183 ms

# Below is generated by plot.py at 2018-06-19 16:42:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 449.88 Mbit/s  
95th percentile per-packet one-way delay: 64.371 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 235.21 Mbit/s  
95th percentile per-packet one-way delay: 64.175 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 235.12 Mbit/s  
95th percentile per-packet one-way delay: 64.233 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 175.71 Mbit/s  
95th percentile per-packet one-way delay: 65.102 ms  
Loss rate: 0.00%



Run 1: Report of PCC-Vivace — Data Link

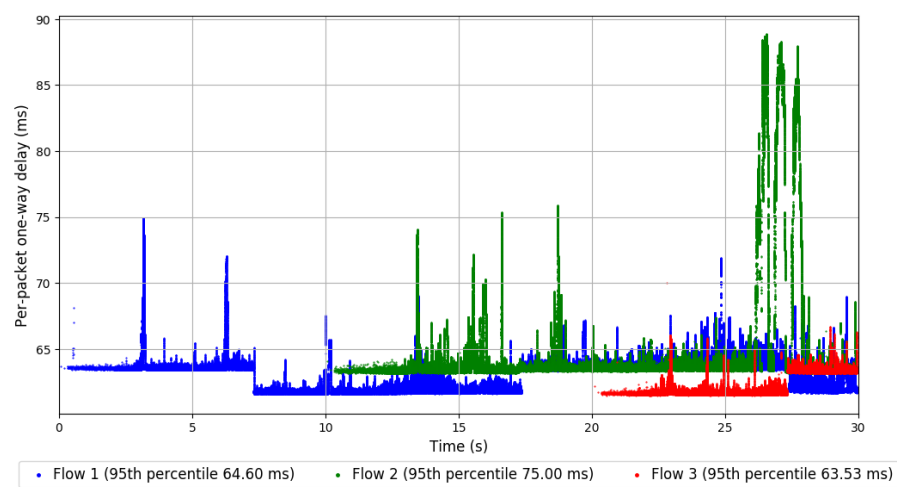
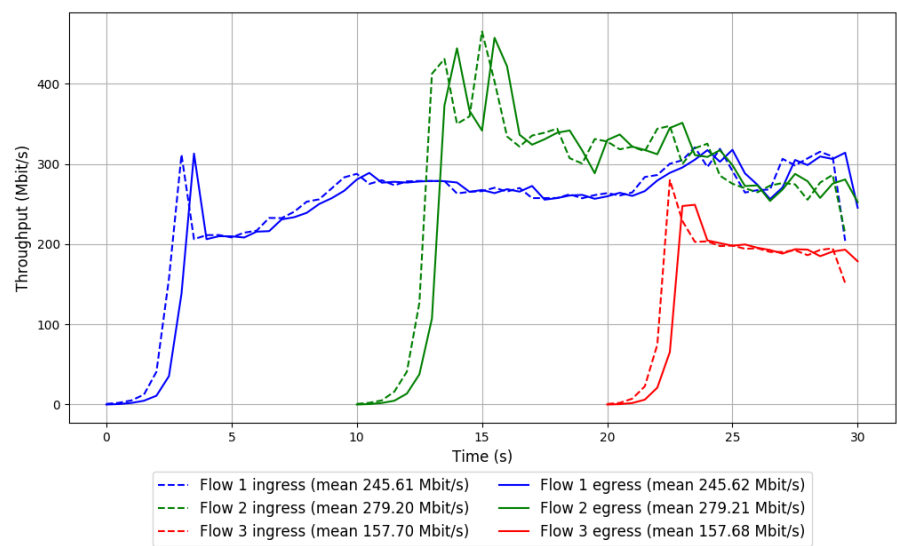


Run 2: Statistics of PCC-Vivace

Start at: 2018-06-19 11:17:31  
End at: 2018-06-19 11:18:01  
Local clock offset: -0.29 ms  
Remote clock offset: -0.218 ms

# Below is generated by plot.py at 2018-06-19 16:42:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 483.25 Mbit/s  
95th percentile per-packet one-way delay: 65.491 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 245.62 Mbit/s  
95th percentile per-packet one-way delay: 64.599 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 279.21 Mbit/s  
95th percentile per-packet one-way delay: 75.000 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 157.68 Mbit/s  
95th percentile per-packet one-way delay: 63.531 ms  
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-06-19 11:40:01

End at: 2018-06-19 11:40:31

Local clock offset: -0.258 ms

Remote clock offset: -0.57 ms

# Below is generated by plot.py at 2018-06-19 16:42:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 405.52 Mbit/s

95th percentile per-packet one-way delay: 63.641 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 245.30 Mbit/s

95th percentile per-packet one-way delay: 63.876 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 195.35 Mbit/s

95th percentile per-packet one-way delay: 63.232 ms

Loss rate: 0.00%

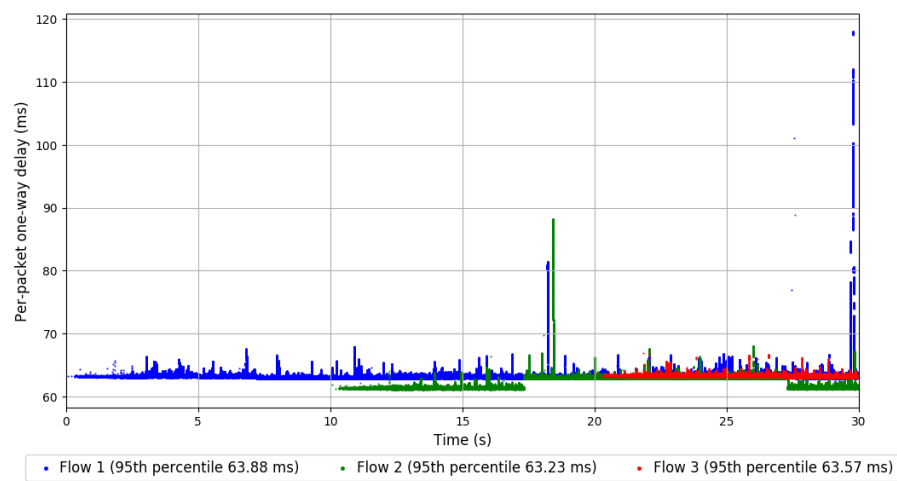
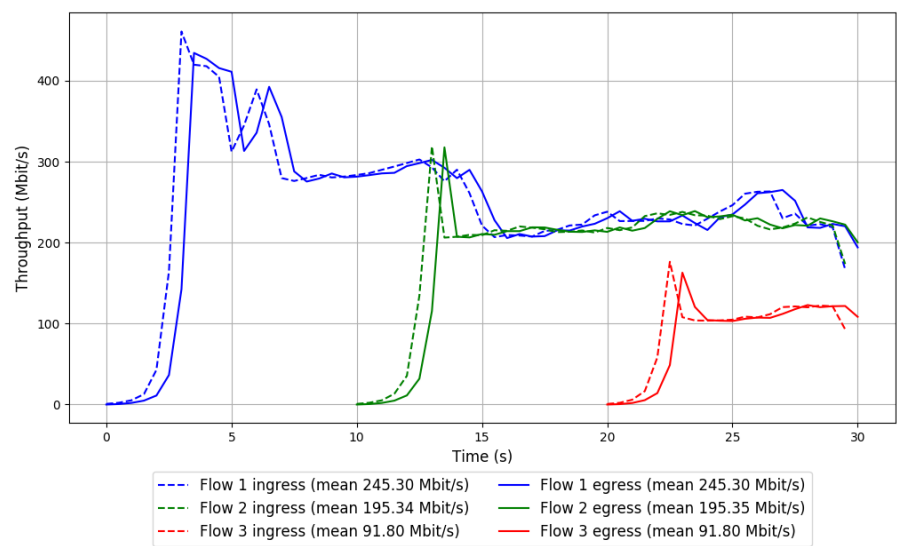
-- Flow 3:

Average throughput: 91.80 Mbit/s

95th percentile per-packet one-way delay: 63.574 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link

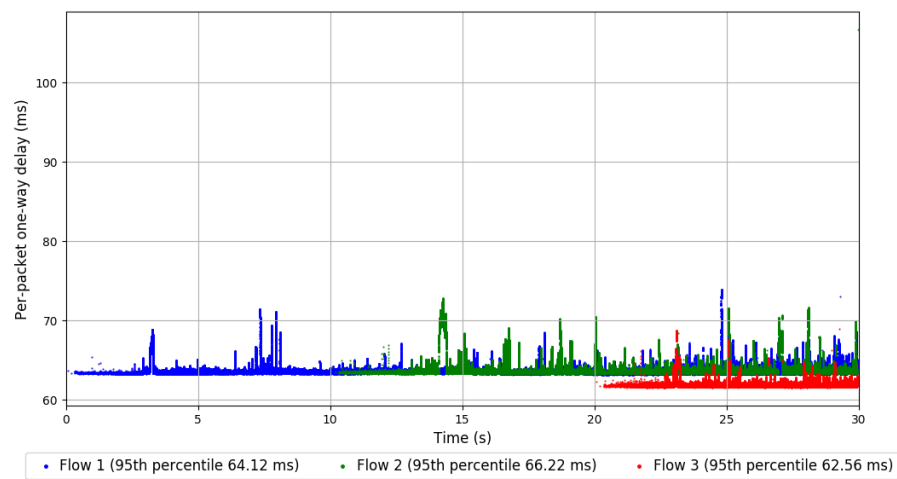
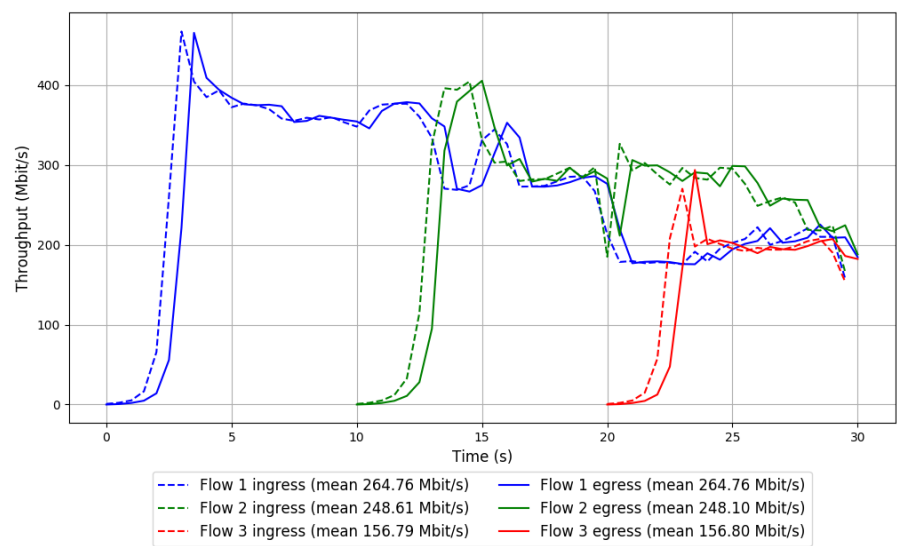


Run 4: Statistics of PCC-Vivace

Start at: 2018-06-19 12:02:33  
End at: 2018-06-19 12:03:03  
Local clock offset: 0.145 ms  
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2018-06-19 16:45:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 481.24 Mbit/s  
95th percentile per-packet one-way delay: 64.547 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 264.76 Mbit/s  
95th percentile per-packet one-way delay: 64.122 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 248.10 Mbit/s  
95th percentile per-packet one-way delay: 66.220 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 156.80 Mbit/s  
95th percentile per-packet one-way delay: 62.564 ms  
Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



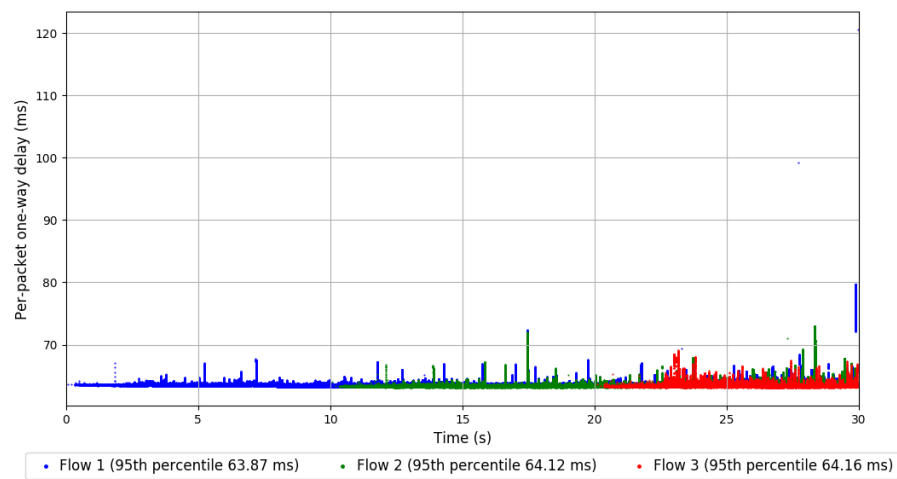
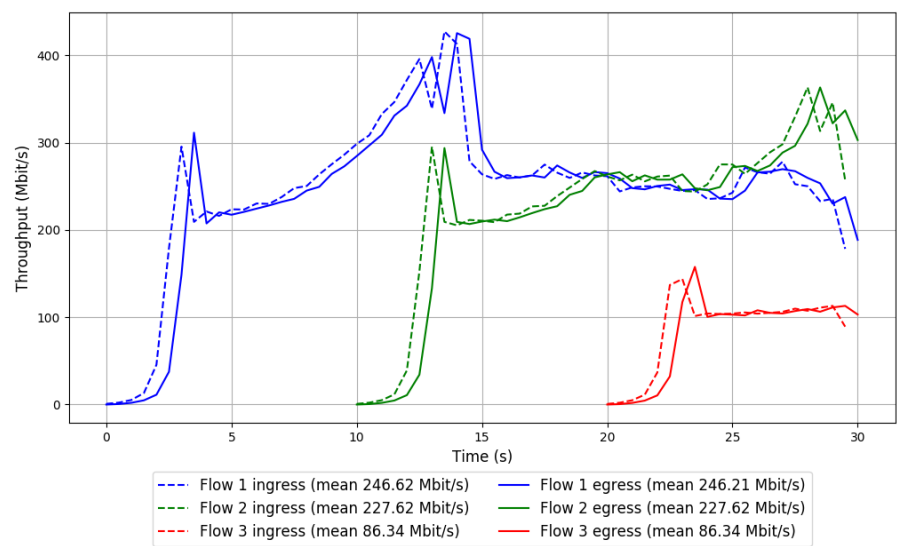
Run 5: Statistics of PCC-Vivace

Start at: 2018-06-19 12:25:20  
End at: 2018-06-19 12:25:50  
Local clock offset: 0.037 ms  
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2018-06-19 16:45:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 425.93 Mbit/s  
95th percentile per-packet one-way delay: 63.971 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 246.21 Mbit/s  
95th percentile per-packet one-way delay: 63.874 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 227.62 Mbit/s  
95th percentile per-packet one-way delay: 64.118 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 86.34 Mbit/s  
95th percentile per-packet one-way delay: 64.163 ms  
Loss rate: 0.00%



Run 5: Report of PCC-Vivace — Data Link

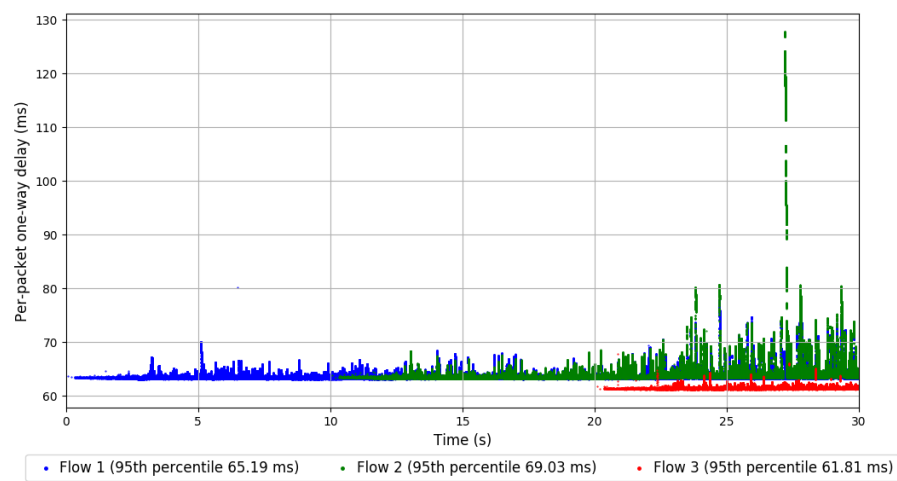
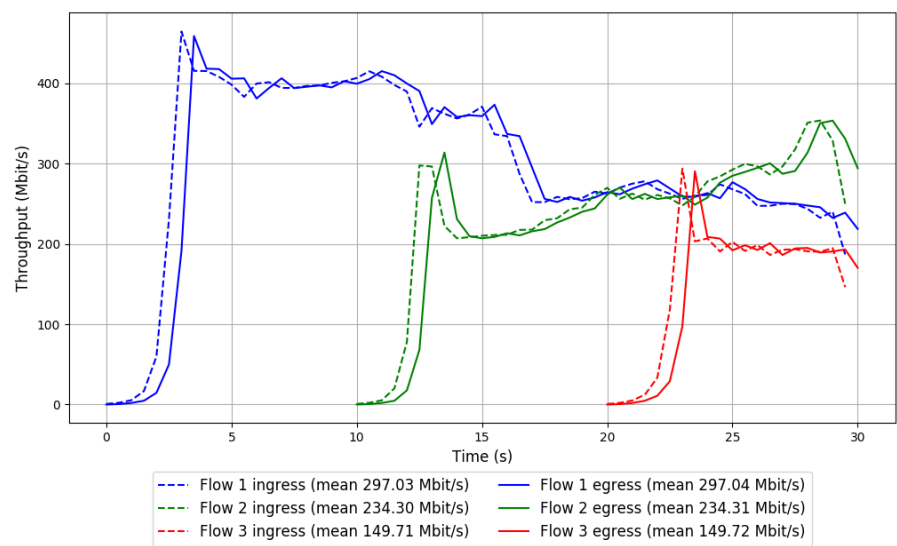


Run 6: Statistics of PCC-Vivace

Start at: 2018-06-19 12:47:45  
End at: 2018-06-19 12:48:15  
Local clock offset: 0.013 ms  
Remote clock offset: -0.264 ms

# Below is generated by plot.py at 2018-06-19 16:45:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 502.25 Mbit/s  
95th percentile per-packet one-way delay: 65.994 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 297.04 Mbit/s  
95th percentile per-packet one-way delay: 65.194 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 234.31 Mbit/s  
95th percentile per-packet one-way delay: 69.032 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 149.72 Mbit/s  
95th percentile per-packet one-way delay: 61.811 ms  
Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link

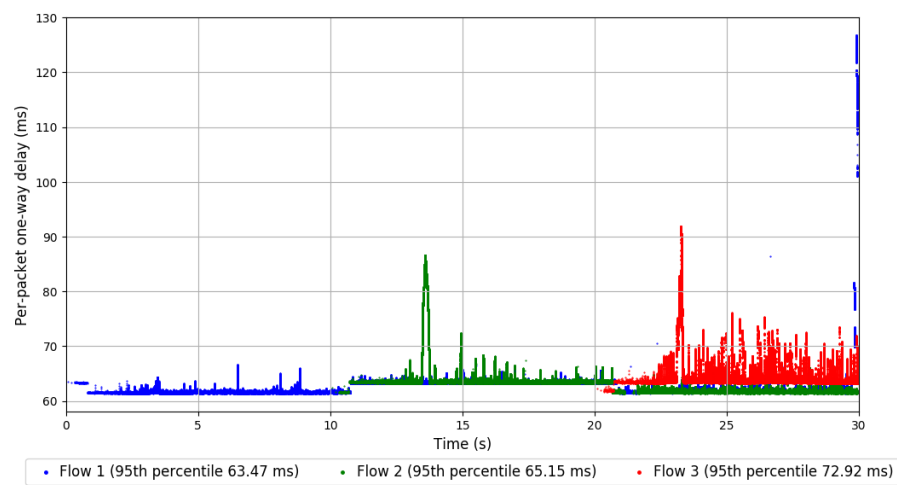
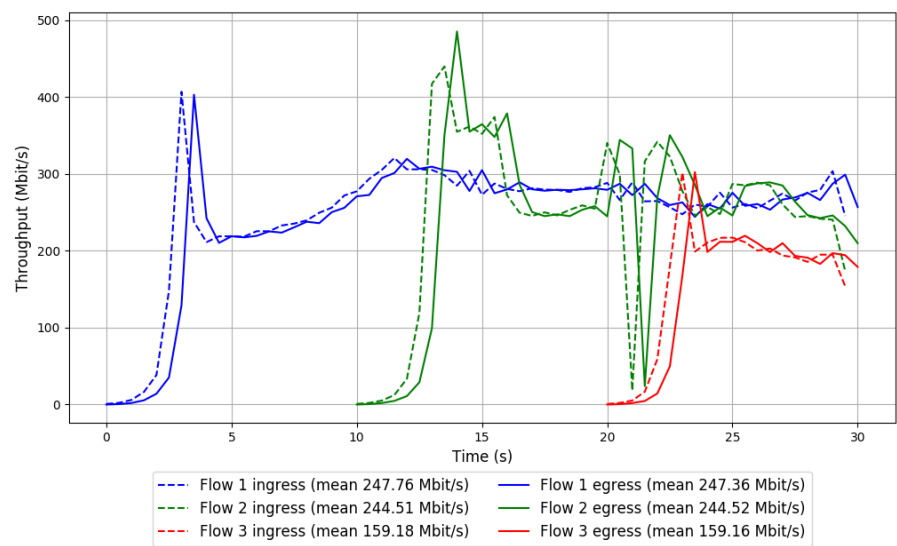


Run 7: Statistics of PCC-Vivace

Start at: 2018-06-19 13:10:17  
End at: 2018-06-19 13:10:47  
Local clock offset: 0.244 ms  
Remote clock offset: -0.145 ms

# Below is generated by plot.py at 2018-06-19 16:45:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 462.45 Mbit/s  
95th percentile per-packet one-way delay: 64.614 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 247.36 Mbit/s  
95th percentile per-packet one-way delay: 63.474 ms  
Loss rate: 0.15%  
-- Flow 2:  
Average throughput: 244.52 Mbit/s  
95th percentile per-packet one-way delay: 65.146 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 159.16 Mbit/s  
95th percentile per-packet one-way delay: 72.923 ms  
Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-06-19 13:32:50

End at: 2018-06-19 13:33:20

Local clock offset: 0.081 ms

Remote clock offset: 0.263 ms

# Below is generated by plot.py at 2018-06-19 16:46:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 455.69 Mbit/s

95th percentile per-packet one-way delay: 67.629 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 217.61 Mbit/s

95th percentile per-packet one-way delay: 66.171 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 277.36 Mbit/s

95th percentile per-packet one-way delay: 73.173 ms

Loss rate: 0.06%

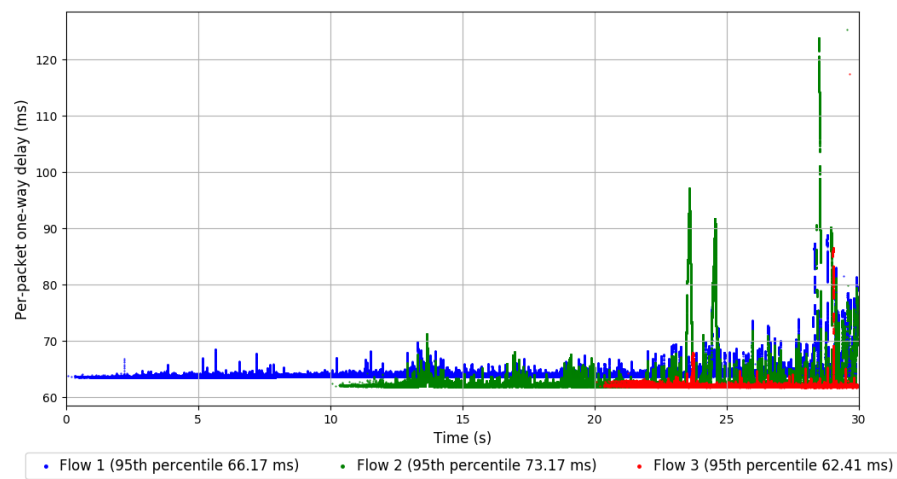
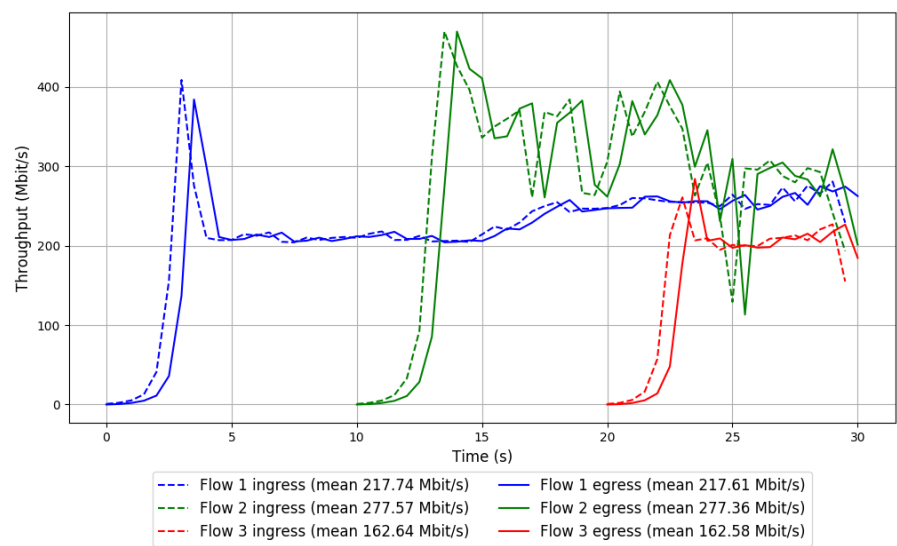
-- Flow 3:

Average throughput: 162.58 Mbit/s

95th percentile per-packet one-way delay: 62.411 ms

Loss rate: 0.04%

Run 8: Report of PCC-Vivace — Data Link



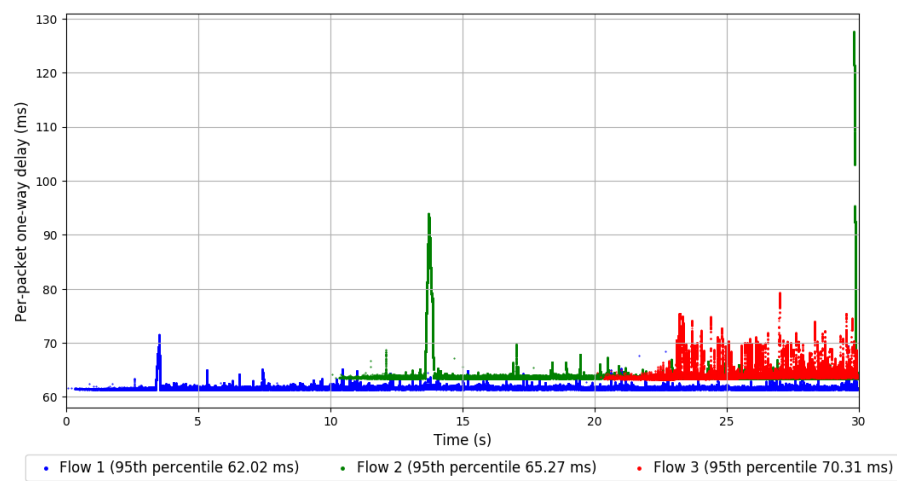
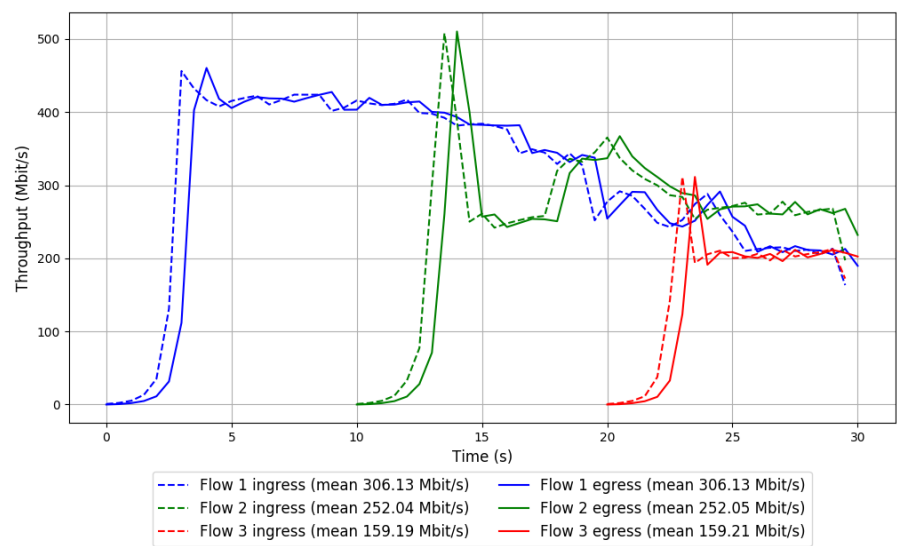
Run 9: Statistics of PCC-Vivace

Start at: 2018-06-19 13:55:23  
End at: 2018-06-19 13:55:53  
Local clock offset: -0.066 ms  
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2018-06-19 16:46:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 526.22 Mbit/s  
95th percentile per-packet one-way delay: 64.612 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 306.13 Mbit/s  
95th percentile per-packet one-way delay: 62.020 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 252.05 Mbit/s  
95th percentile per-packet one-way delay: 65.274 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 159.21 Mbit/s  
95th percentile per-packet one-way delay: 70.312 ms  
Loss rate: 0.00%



Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-06-19 14:18:11

End at: 2018-06-19 14:18:41

Local clock offset: -0.053 ms

Remote clock offset: 0.185 ms

# Below is generated by plot.py at 2018-06-19 16:46:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 370.85 Mbit/s

95th percentile per-packet one-way delay: 65.379 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 252.10 Mbit/s

95th percentile per-packet one-way delay: 64.157 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 134.33 Mbit/s

95th percentile per-packet one-way delay: 68.532 ms

Loss rate: 0.32%

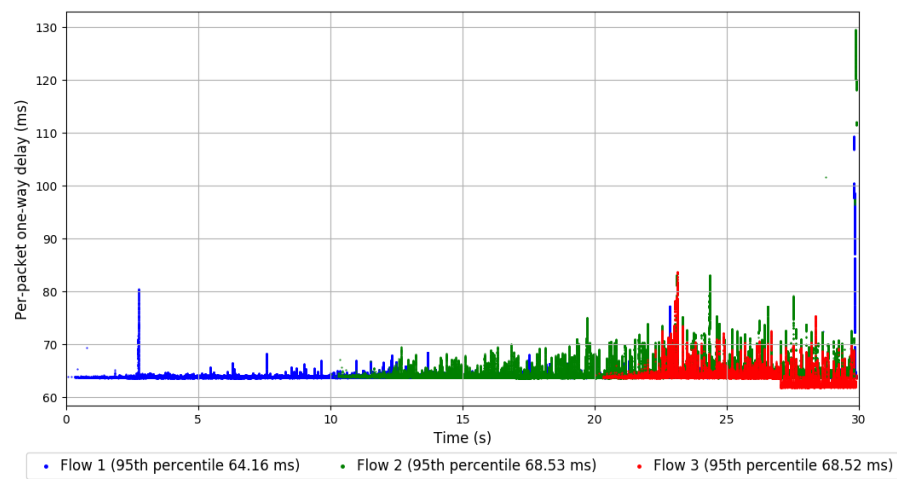
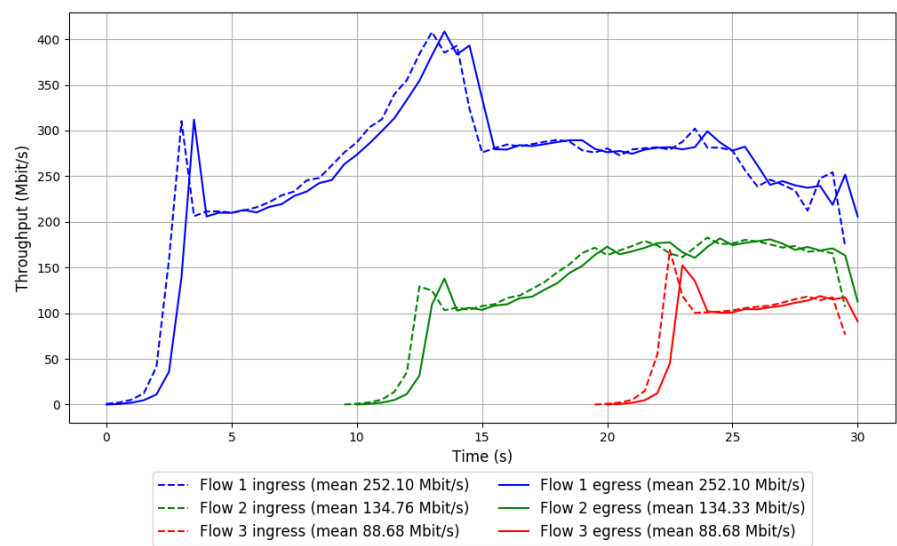
-- Flow 3:

Average throughput: 88.68 Mbit/s

95th percentile per-packet one-way delay: 68.517 ms

Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link

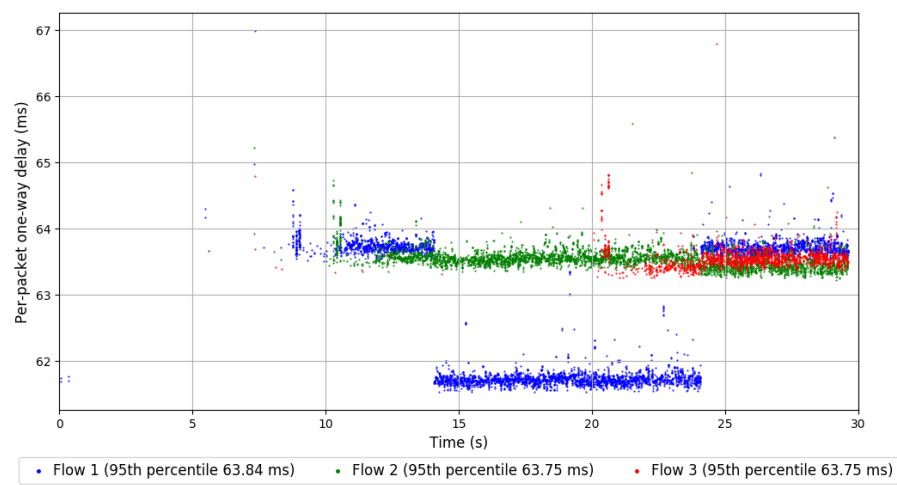
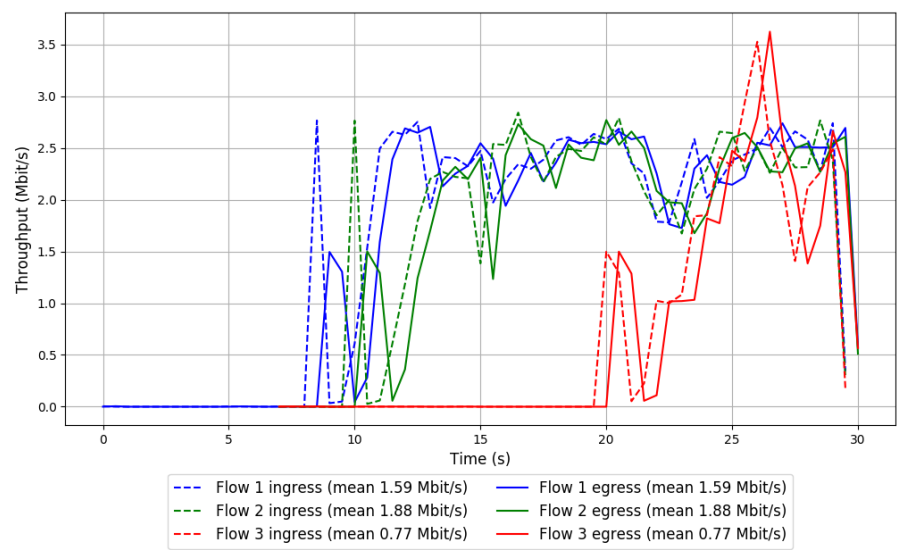


Run 1: Statistics of WebRTC media

Start at: 2018-06-19 10:57:53  
End at: 2018-06-19 10:58:23  
Local clock offset: -0.282 ms  
Remote clock offset: -0.139 ms

# Below is generated by plot.py at 2018-06-19 16:46:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.59 Mbit/s  
95th percentile per-packet one-way delay: 63.810 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.59 Mbit/s  
95th percentile per-packet one-way delay: 63.837 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.88 Mbit/s  
95th percentile per-packet one-way delay: 63.752 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.77 Mbit/s  
95th percentile per-packet one-way delay: 63.749 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

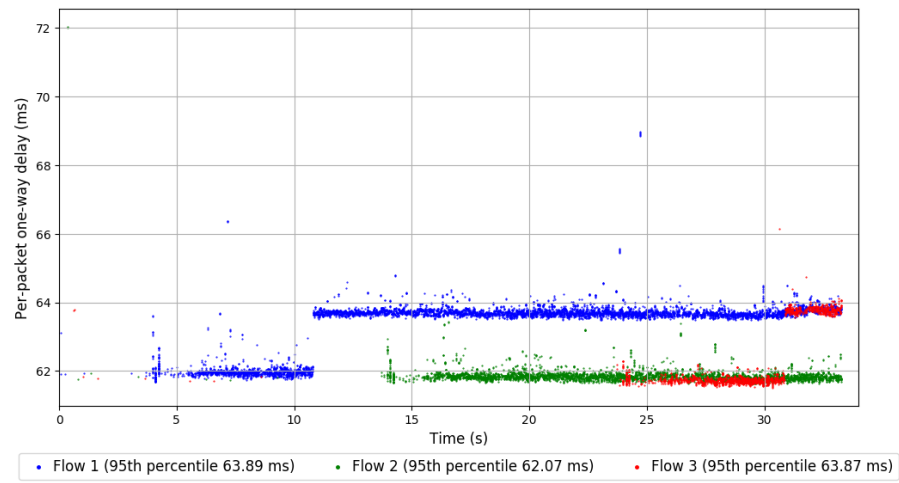
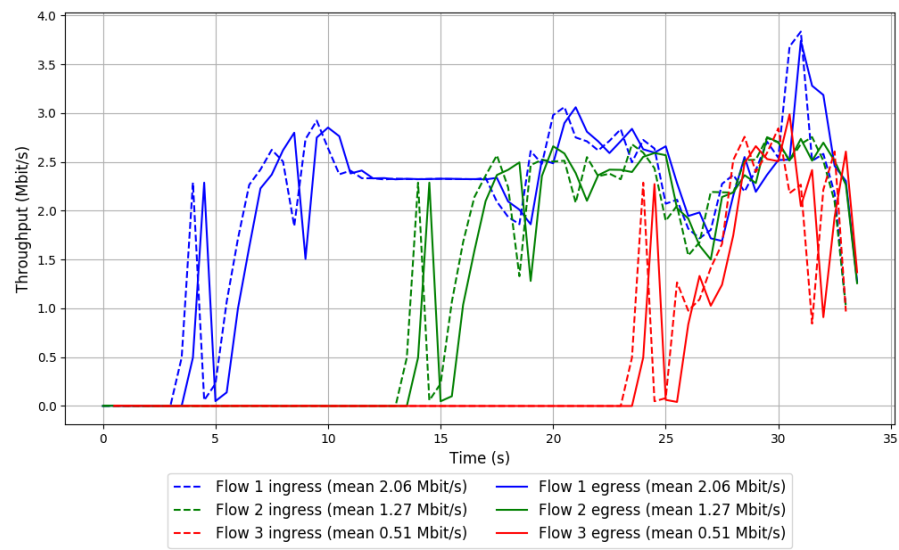


Run 2: Statistics of WebRTC media

Start at: 2018-06-19 11:20:30  
End at: 2018-06-19 11:21:00  
Local clock offset: -0.307 ms  
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2018-06-19 16:46:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.83 Mbit/s  
95th percentile per-packet one-way delay: 63.841 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.06 Mbit/s  
95th percentile per-packet one-way delay: 63.892 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.27 Mbit/s  
95th percentile per-packet one-way delay: 62.066 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.51 Mbit/s  
95th percentile per-packet one-way delay: 63.865 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-06-19 11:42:55

End at: 2018-06-19 11:43:25

Local clock offset: -0.144 ms

Remote clock offset: 0.051 ms

# Below is generated by plot.py at 2018-06-19 16:46:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.75 Mbit/s

95th percentile per-packet one-way delay: 63.956 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 63.921 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 63.979 ms

Loss rate: 0.00%

-- Flow 3:

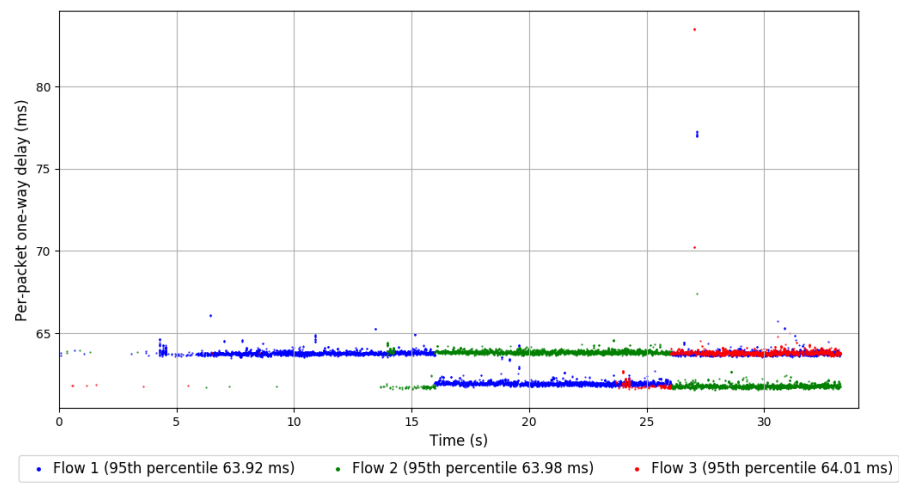
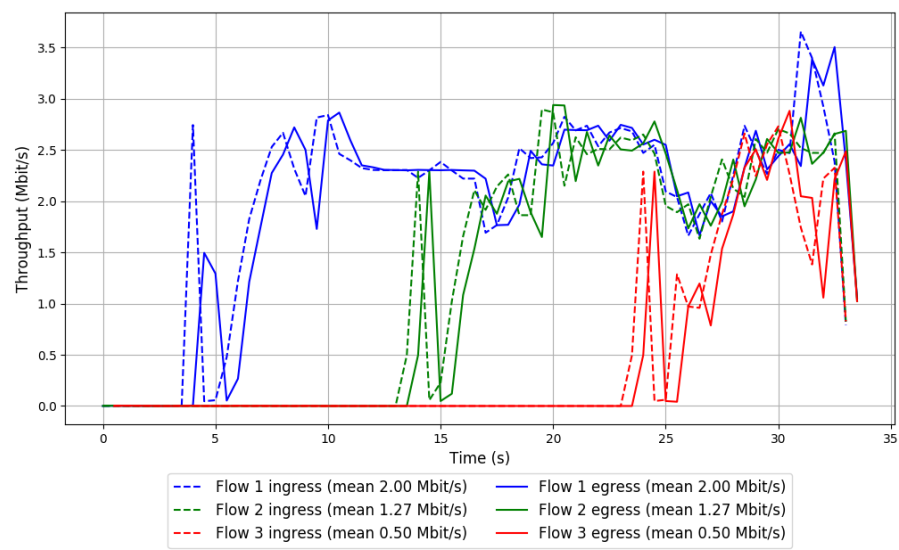
Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 64.010 ms

Loss rate: 0.00%



Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-06-19 12:05:33

End at: 2018-06-19 12:06:03

Local clock offset: 0.179 ms

Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2018-06-19 16:46:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.78 Mbit/s

95th percentile per-packet one-way delay: 63.610 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 63.540 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 63.527 ms

Loss rate: 0.00%

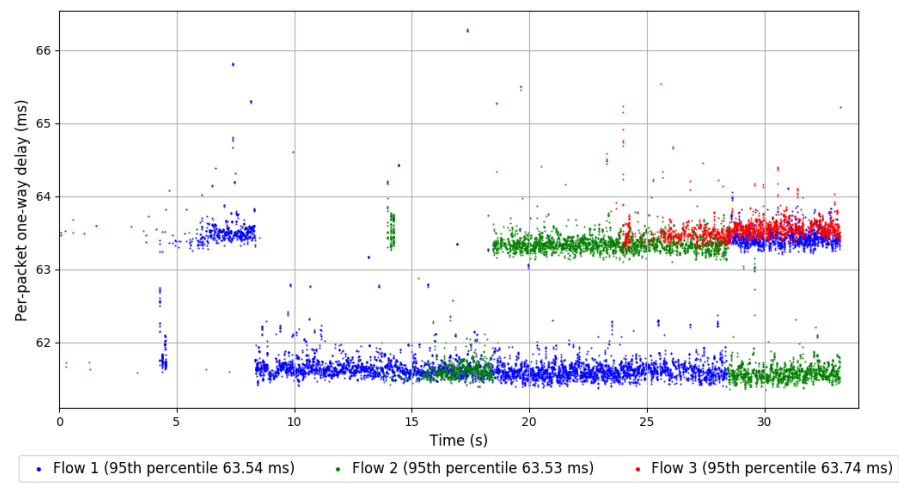
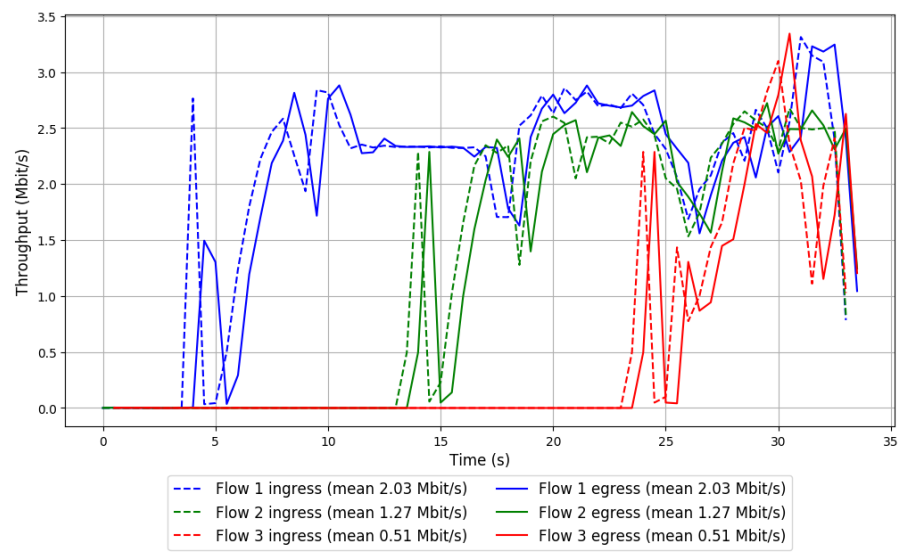
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 63.739 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

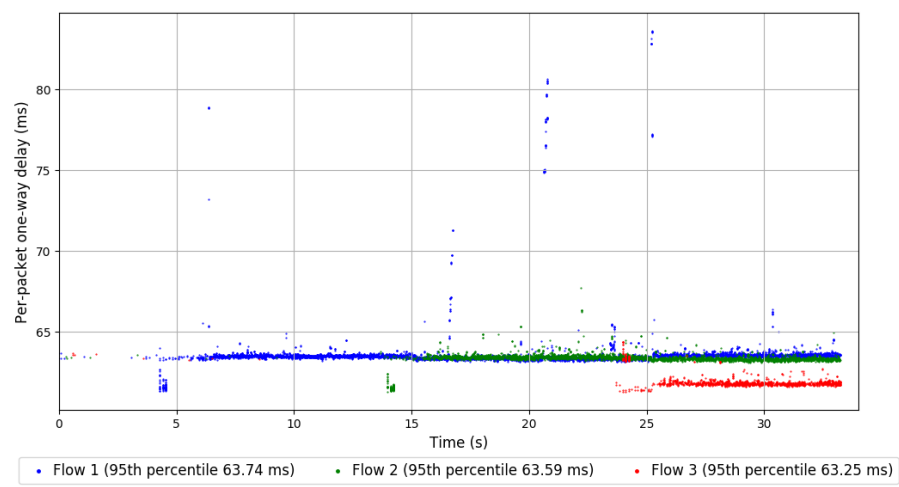
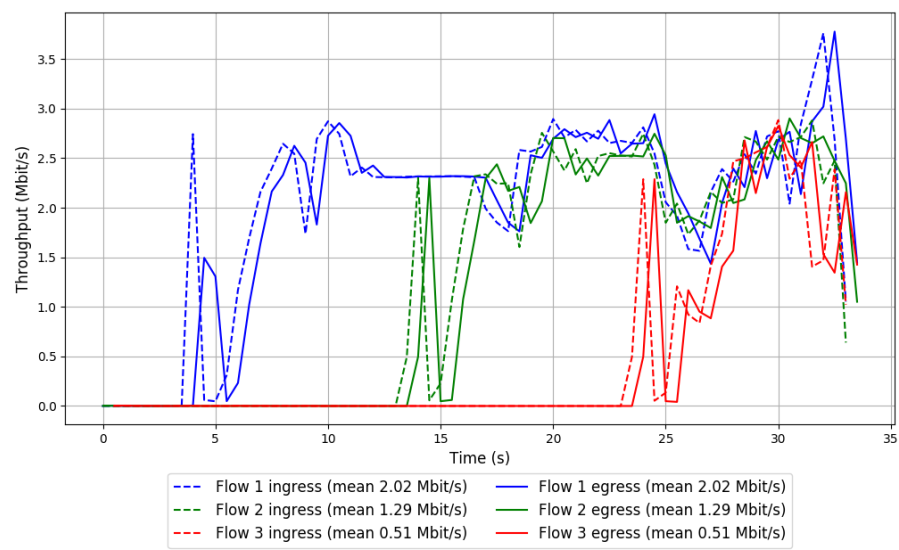


Run 5: Statistics of WebRTC media

Start at: 2018-06-19 12:28:16  
End at: 2018-06-19 12:28:46  
Local clock offset: 0.016 ms  
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2018-06-19 16:46:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.80 Mbit/s  
95th percentile per-packet one-way delay: 63.658 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.02 Mbit/s  
95th percentile per-packet one-way delay: 63.736 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.29 Mbit/s  
95th percentile per-packet one-way delay: 63.589 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.51 Mbit/s  
95th percentile per-packet one-way delay: 63.248 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

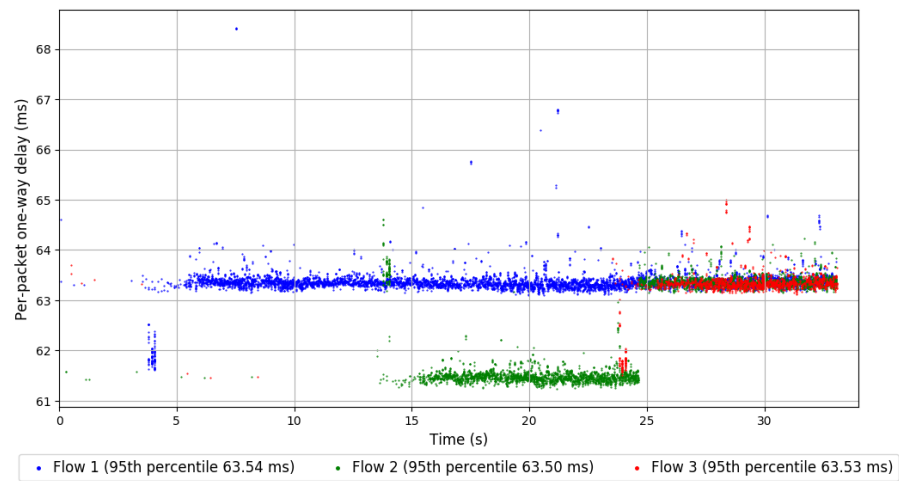
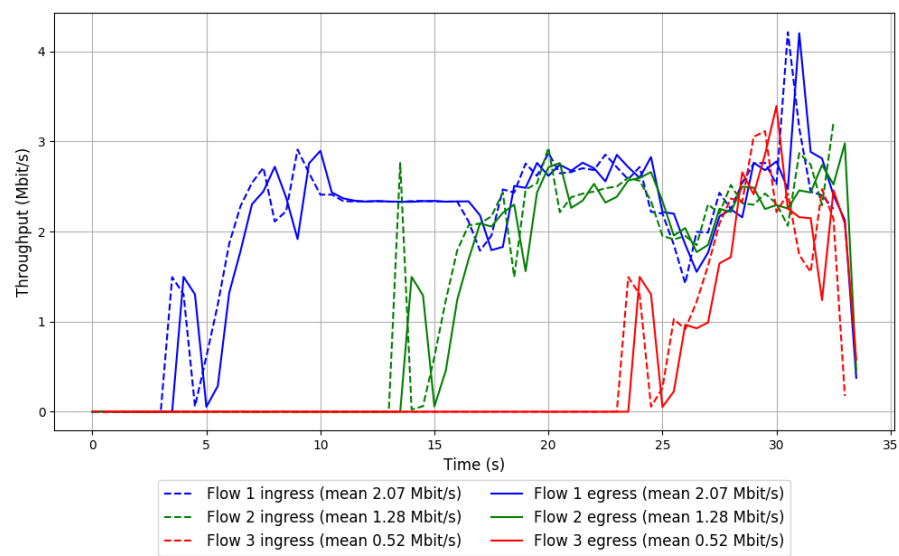


Run 6: Statistics of WebRTC media

Start at: 2018-06-19 12:50:46  
End at: 2018-06-19 12:51:16  
Local clock offset: 0.083 ms  
Remote clock offset: -0.187 ms

# Below is generated by plot.py at 2018-06-19 16:46:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.85 Mbit/s  
95th percentile per-packet one-way delay: 63.526 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.07 Mbit/s  
95th percentile per-packet one-way delay: 63.543 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.28 Mbit/s  
95th percentile per-packet one-way delay: 63.496 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.52 Mbit/s  
95th percentile per-packet one-way delay: 63.534 ms  
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-06-19 13:13:16

End at: 2018-06-19 13:13:46

Local clock offset: 0.288 ms

Remote clock offset: 0.272 ms

# Below is generated by plot.py at 2018-06-19 16:46:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.74 Mbit/s

95th percentile per-packet one-way delay: 64.177 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 62.664 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 64.243 ms

Loss rate: 0.00%

-- Flow 3:

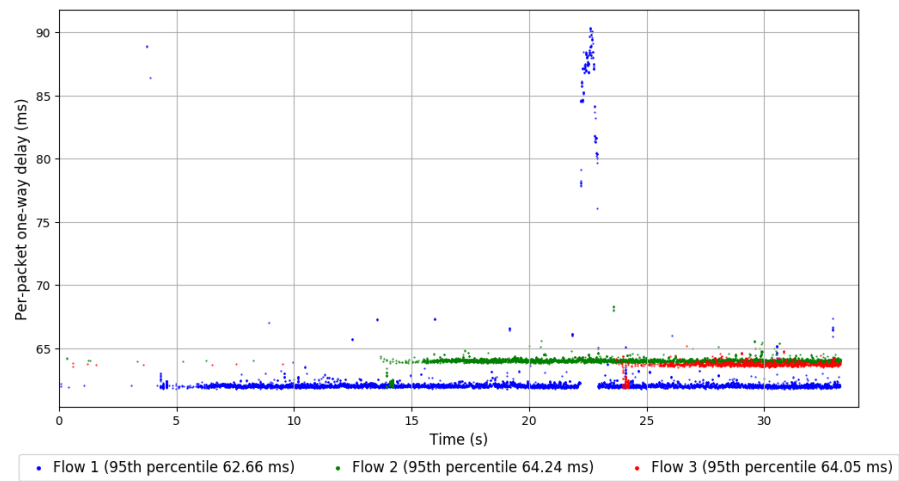
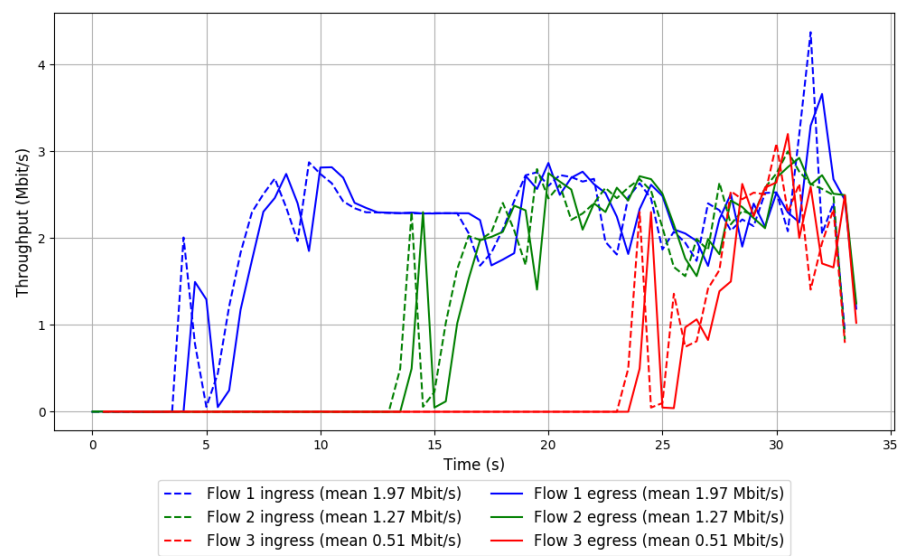
Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 64.051 ms

Loss rate: 0.00%



Run 7: Report of WebRTC media — Data Link

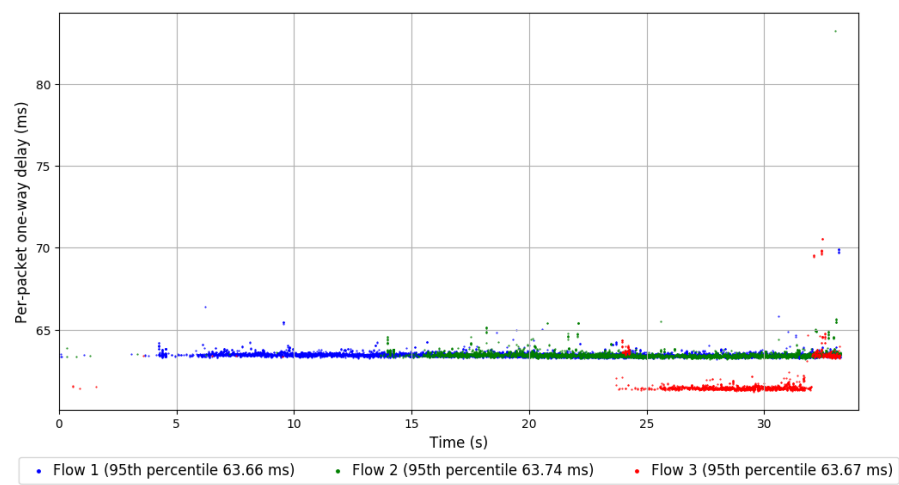
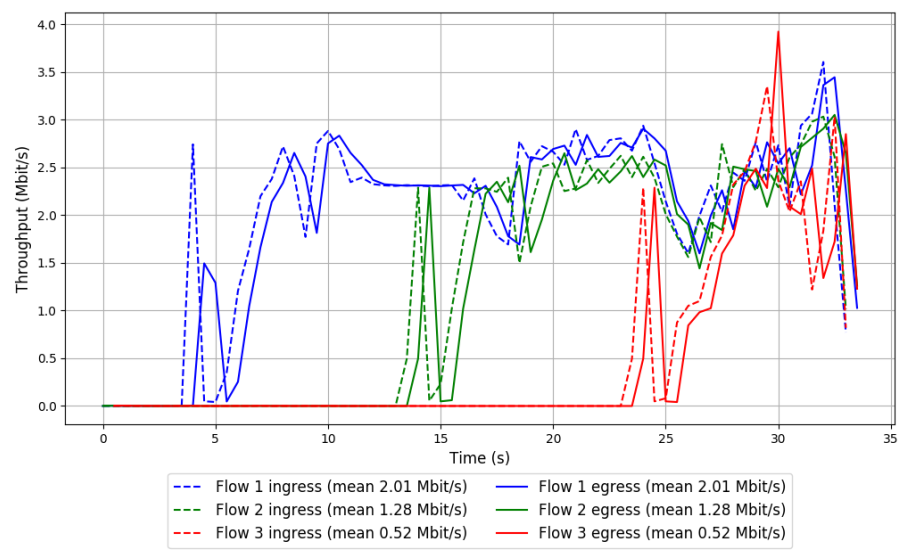


Run 8: Statistics of WebRTC media

Start at: 2018-06-19 13:35:49  
End at: 2018-06-19 13:36:19  
Local clock offset: 0.019 ms  
Remote clock offset: -0.178 ms

# Below is generated by plot.py at 2018-06-19 16:46:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.79 Mbit/s  
95th percentile per-packet one-way delay: 63.690 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.01 Mbit/s  
95th percentile per-packet one-way delay: 63.658 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.28 Mbit/s  
95th percentile per-packet one-way delay: 63.739 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.52 Mbit/s  
95th percentile per-packet one-way delay: 63.673 ms  
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-06-19 13:58:25

End at: 2018-06-19 13:58:55

Local clock offset: -0.015 ms

Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2018-06-19 16:46:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.78 Mbit/s

95th percentile per-packet one-way delay: 63.658 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 62.129 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 62.319 ms

Loss rate: 0.00%

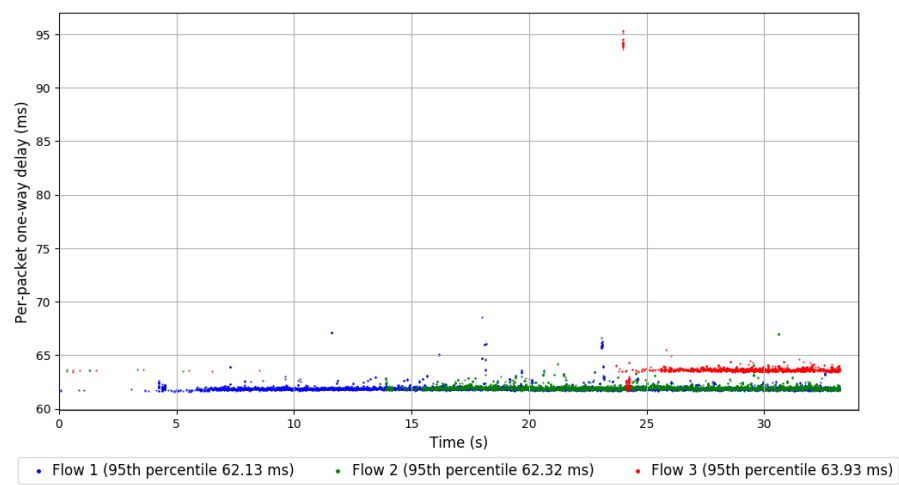
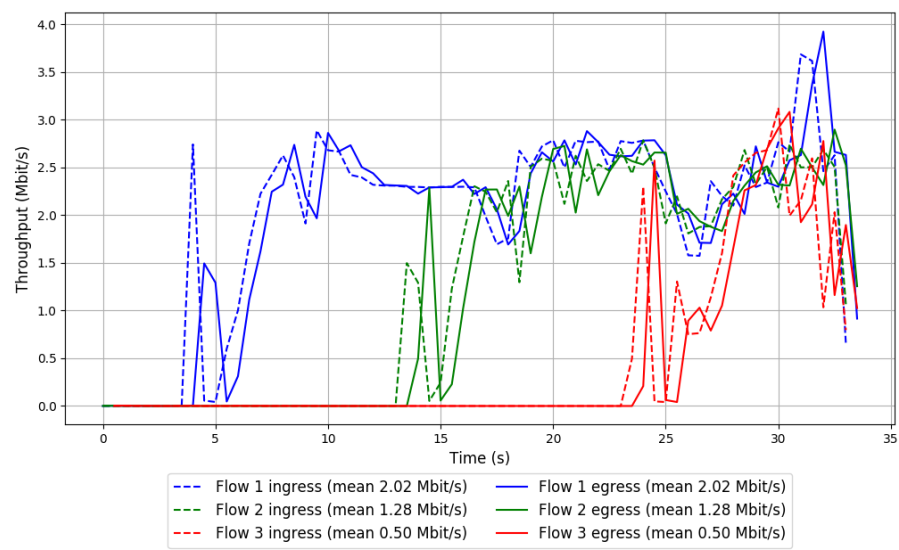
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 63.931 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-19 14:21:03  
End at: 2018-06-19 14:21:33  
Local clock offset: -0.073 ms  
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2018-06-19 16:46:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.80 Mbit/s  
95th percentile per-packet one-way delay: 63.799 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.03 Mbit/s  
95th percentile per-packet one-way delay: 63.903 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.27 Mbit/s  
95th percentile per-packet one-way delay: 62.035 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.52 Mbit/s  
95th percentile per-packet one-way delay: 63.718 ms  
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

