

## Pantheon Report

Generated at 2018-06-02 04:15:06 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

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

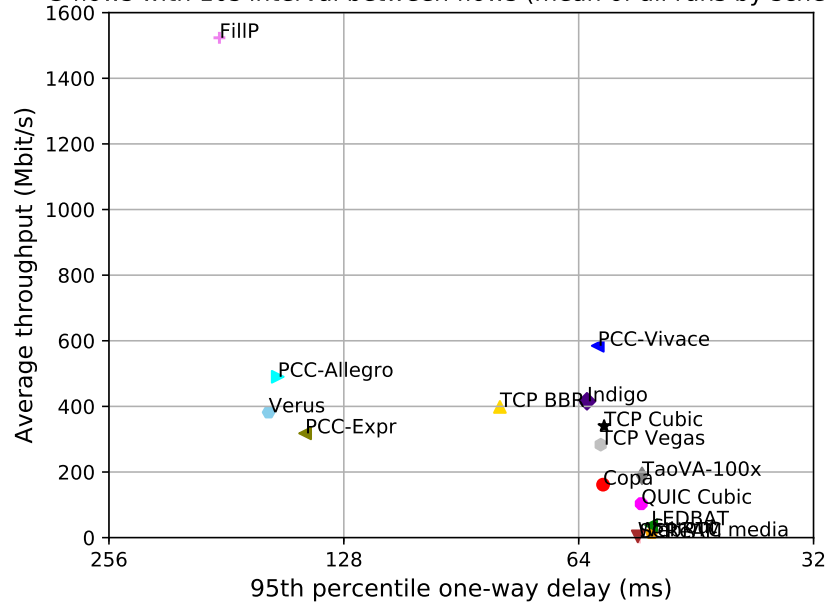
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

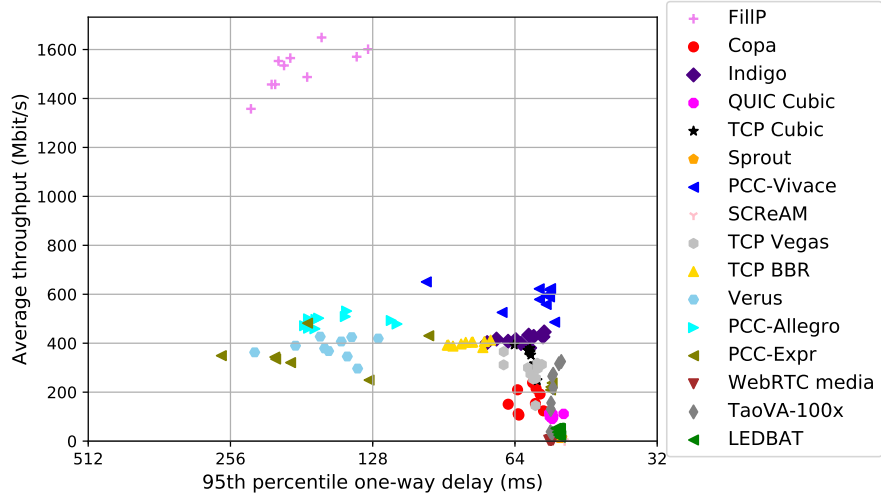
Git summary:

```
branch: master @ 227fdf9a3757f17b88537cceed5743a33037a3d2
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-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	207.24	198.09	180.39	78.04	81.07	83.39	0.40	0.60	1.33
Copa	10	80.94	89.82	74.61	58.25	57.36	62.91	0.64	0.52	1.06
TCP Cubic	10	195.27	180.73	75.08	59.30	58.71	57.15	0.30	0.52	2.51
FillP	10	800.68	763.47	655.42	176.85	179.74	164.74	2.90	3.62	4.52
Indigo	10	226.40	210.83	149.99	61.18	62.64	64.25	0.33	0.52	1.24
LEDBAT	10	23.21	17.20	9.68	51.59	51.79	51.62	0.60	0.88	1.85
PCC-Allegro	10	460.44	30.37	29.56	155.46	155.84	146.31	1.26	1.69	1.85
PCC-Expr	10	174.73	170.76	90.71	109.92	122.26	86.52	1.78	3.87	3.15
QUIC Cubic	10	64.98	45.47	24.48	52.47	52.20	51.93	0.47	1.02	2.71
SCReAM	10	0.22	0.21	0.22	52.07	52.02	52.36	0.33	0.62	1.09
Sprout	10	7.05	6.78	6.57	51.75	52.69	51.87	0.38	0.52	1.22
TaoVA-100x	10	60.29	126.80	136.69	53.12	52.64	52.69	0.30	0.36	0.87
TCP Vegas	10	172.84	119.94	93.52	59.30	58.07	58.76	0.24	0.48	1.24
Verus	10	252.92	145.08	99.73	162.32	145.60	164.79	1.19	1.21	3.72
PCC-Vivace	10	337.70	315.30	115.29	58.29	66.41	53.36	0.34	0.55	1.59
WebRTC media	10	1.99	1.32	0.56	52.73	52.99	52.55	0.49	0.59	1.59

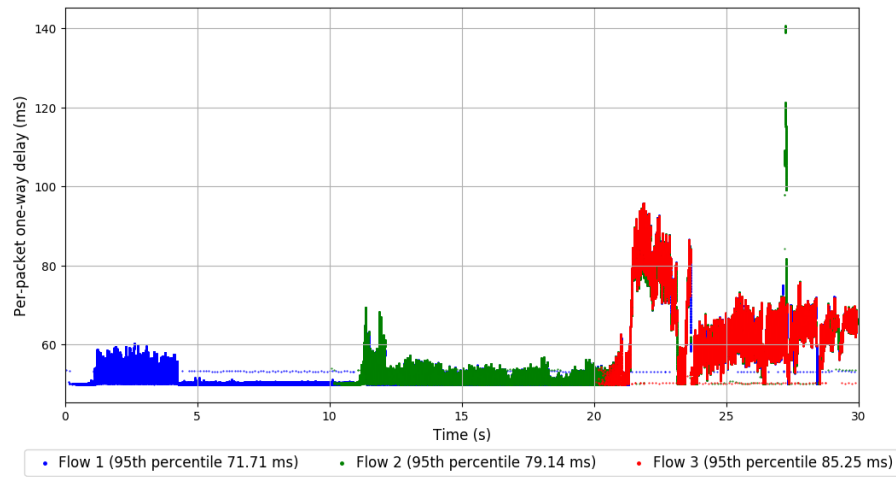
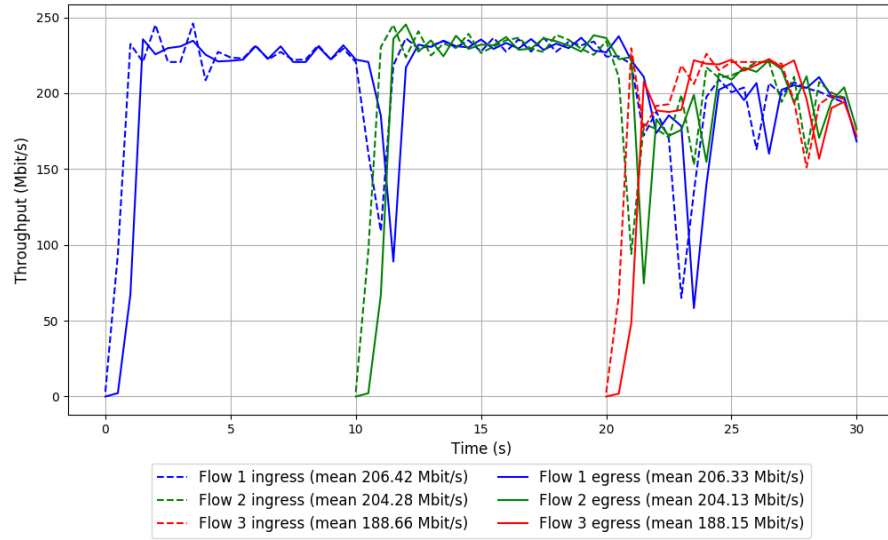
Run 1: Statistics of TCP BBR

Start at: 2018-06-01 22:16:59  
End at: 2018-06-01 22:17:29  
Local clock offset: 0.476 ms  
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2018-06-02 02:12:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 404.06 Mbit/s  
95th percentile per-packet one-way delay: 79.033 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 206.33 Mbit/s  
95th percentile per-packet one-way delay: 71.707 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 204.13 Mbit/s  
95th percentile per-packet one-way delay: 79.135 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 188.15 Mbit/s  
95th percentile per-packet one-way delay: 85.246 ms  
Loss rate: 1.31%



# Run 1: Report of TCP BBR — Data Link

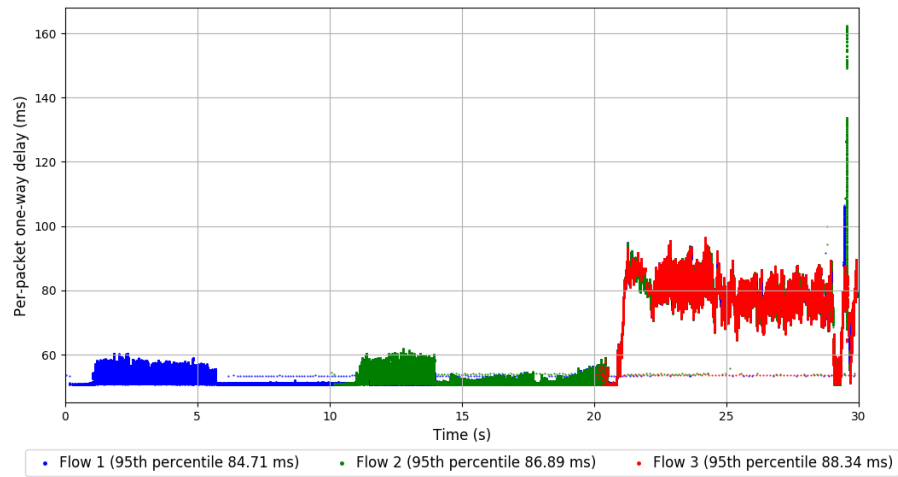
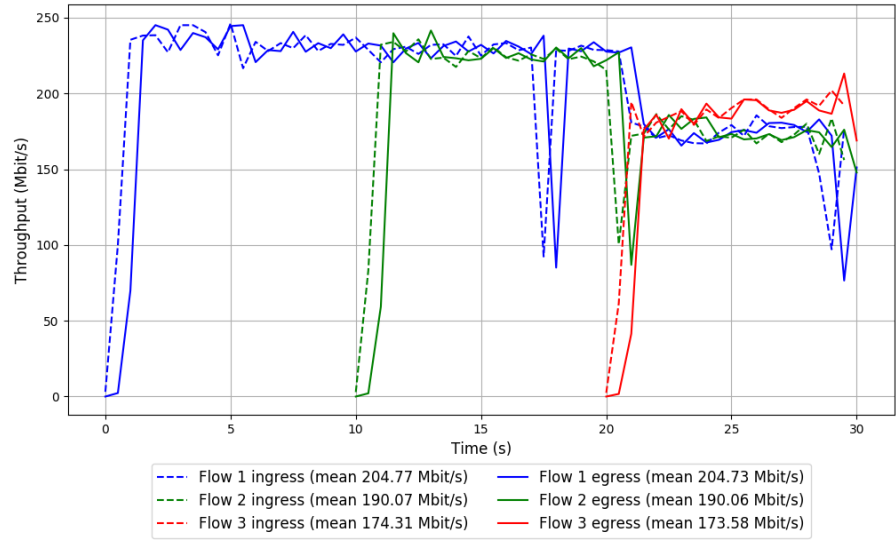


Run 2: Statistics of TCP BBR

Start at: 2018-06-01 22:40:09  
End at: 2018-06-01 22:40:40  
Local clock offset: 0.632 ms  
Remote clock offset: -0.158 ms

# Below is generated by plot.py at 2018-06-02 02:12:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 388.26 Mbit/s  
95th percentile per-packet one-way delay: 86.583 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 204.73 Mbit/s  
95th percentile per-packet one-way delay: 84.707 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 190.06 Mbit/s  
95th percentile per-packet one-way delay: 86.885 ms  
Loss rate: 0.54%  
-- Flow 3:  
Average throughput: 173.58 Mbit/s  
95th percentile per-packet one-way delay: 88.344 ms  
Loss rate: 1.41%

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



Run 3: Statistics of TCP BBR

Start at: 2018-06-01 23:03:12

End at: 2018-06-01 23:03:42

Local clock offset: 0.788 ms

Remote clock offset: 0.221 ms

# Below is generated by plot.py at 2018-06-02 02:12:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 382.20 Mbit/s

95th percentile per-packet one-way delay: 74.841 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 196.27 Mbit/s

95th percentile per-packet one-way delay: 73.706 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 191.68 Mbit/s

95th percentile per-packet one-way delay: 74.616 ms

Loss rate: 0.67%

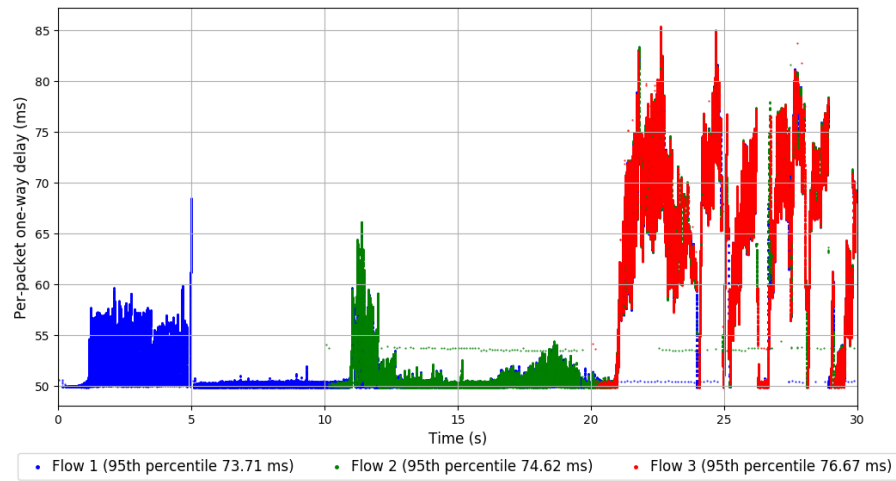
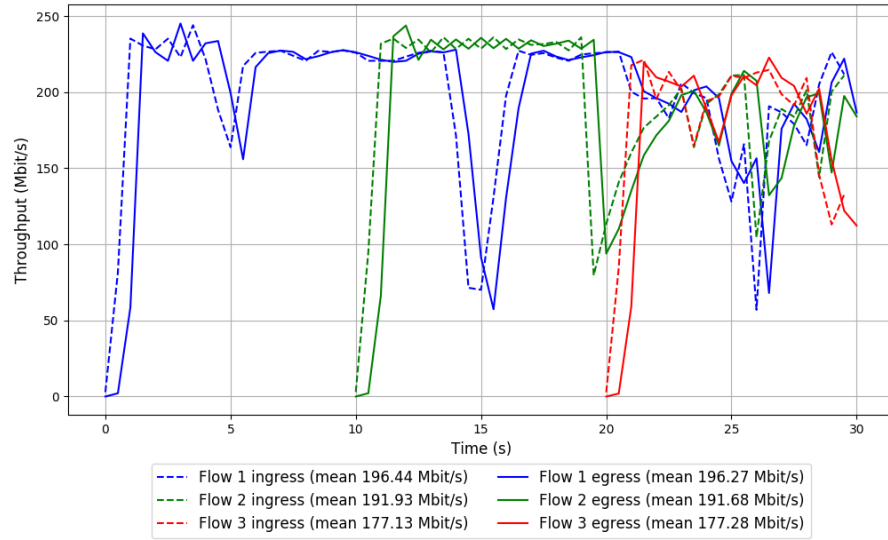
-- Flow 3:

Average throughput: 177.28 Mbit/s

95th percentile per-packet one-way delay: 76.675 ms

Loss rate: 1.01%

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

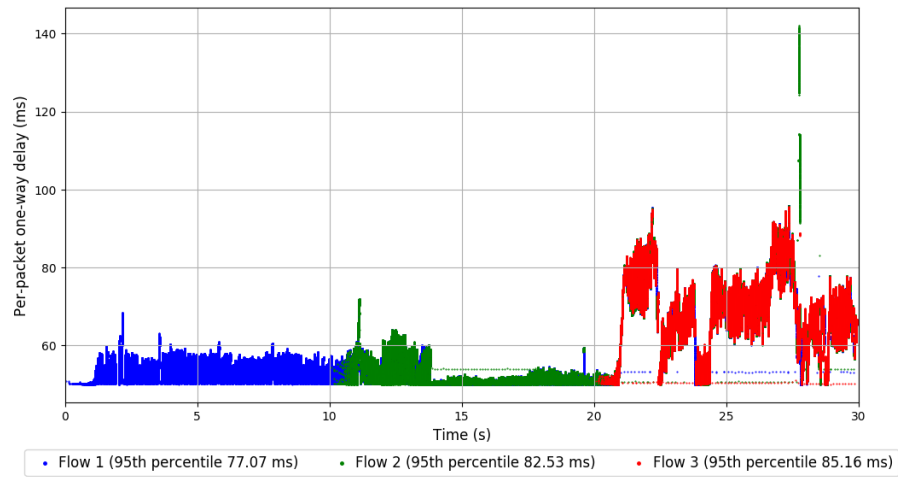
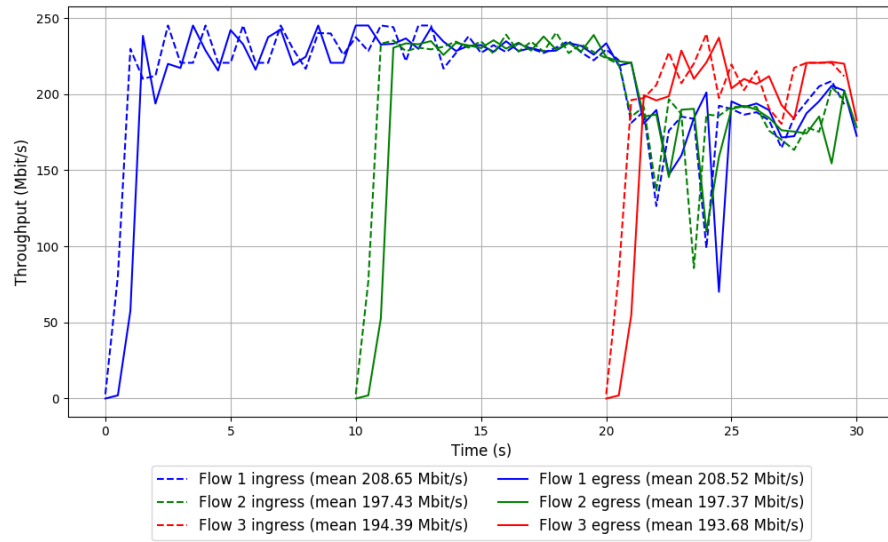


Run 4: Statistics of TCP BBR

Start at: 2018-06-01 23:26:20  
End at: 2018-06-01 23:26:50  
Local clock offset: 0.331 ms  
Remote clock offset: -0.259 ms

# Below is generated by plot.py at 2018-06-02 02:12:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 403.59 Mbit/s  
95th percentile per-packet one-way delay: 81.356 ms  
Loss rate: 0.63%  
-- Flow 1:  
Average throughput: 208.52 Mbit/s  
95th percentile per-packet one-way delay: 77.066 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 197.37 Mbit/s  
95th percentile per-packet one-way delay: 82.528 ms  
Loss rate: 0.62%  
-- Flow 3:  
Average throughput: 193.68 Mbit/s  
95th percentile per-packet one-way delay: 85.164 ms  
Loss rate: 1.38%

# Run 4: Report of TCP BBR — Data Link



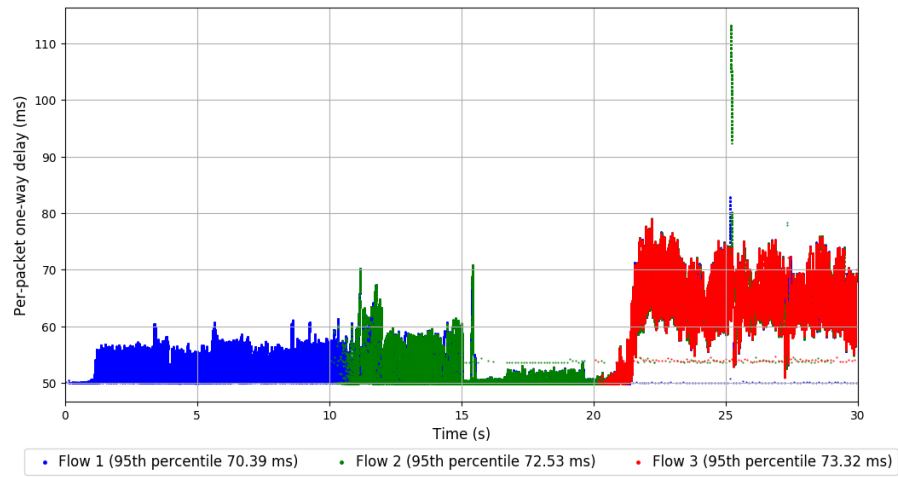
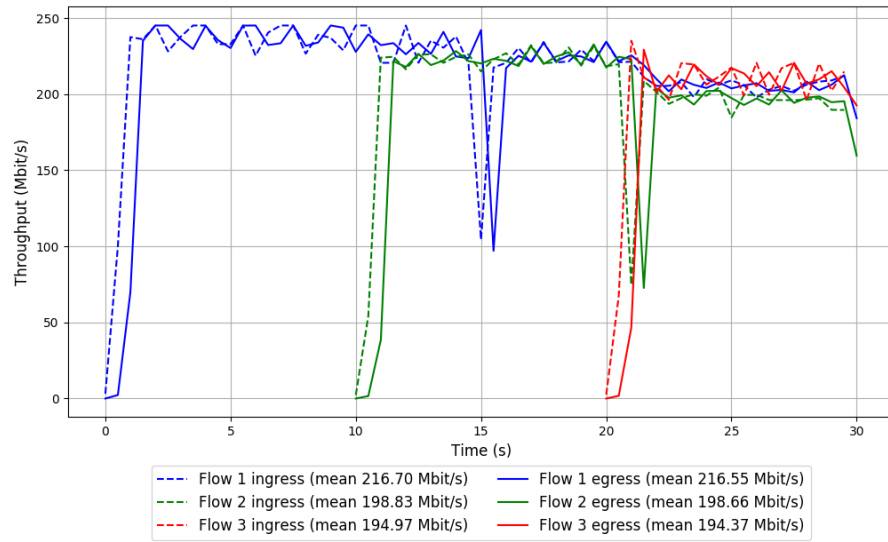
Run 5: Statistics of TCP BBR

Start at: 2018-06-01 23:49:08  
End at: 2018-06-01 23:49:38  
Local clock offset: -0.034 ms  
Remote clock offset: -0.161 ms

# Below is generated by plot.py at 2018-06-02 02:12:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 412.75 Mbit/s  
95th percentile per-packet one-way delay: 72.068 ms  
Loss rate: 0.61%  
-- Flow 1:  
Average throughput: 216.55 Mbit/s  
95th percentile per-packet one-way delay: 70.389 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 198.66 Mbit/s  
95th percentile per-packet one-way delay: 72.534 ms  
Loss rate: 0.62%  
-- Flow 3:  
Average throughput: 194.37 Mbit/s  
95th percentile per-packet one-way delay: 73.322 ms  
Loss rate: 1.28%



### Run 5: Report of TCP BBR — Data Link

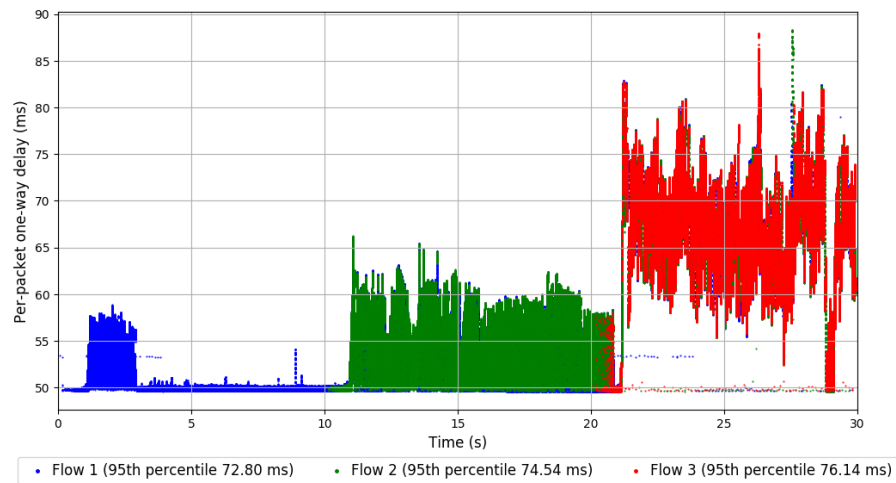
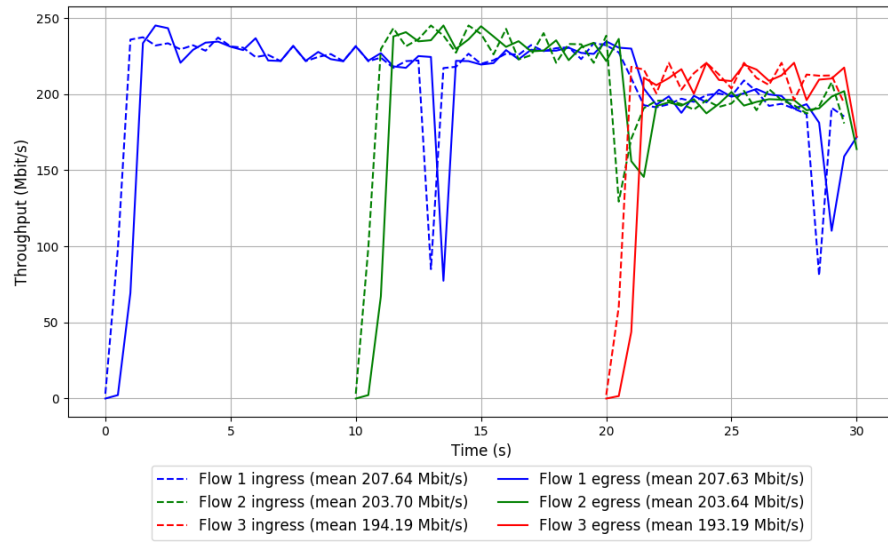


Run 6: Statistics of TCP BBR

Start at: 2018-06-02 00:12:04  
End at: 2018-06-02 00:12:34  
Local clock offset: -0.264 ms  
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2018-06-02 02:12:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 406.84 Mbit/s  
95th percentile per-packet one-way delay: 74.275 ms  
Loss rate: 0.56%  
-- Flow 1:  
Average throughput: 207.63 Mbit/s  
95th percentile per-packet one-way delay: 72.801 ms  
Loss rate: 0.36%  
-- Flow 2:  
Average throughput: 203.64 Mbit/s  
95th percentile per-packet one-way delay: 74.538 ms  
Loss rate: 0.55%  
-- Flow 3:  
Average throughput: 193.19 Mbit/s  
95th percentile per-packet one-way delay: 76.135 ms  
Loss rate: 1.20%

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



Run 7: Statistics of TCP BBR

Start at: 2018-06-02 00:35:22

End at: 2018-06-02 00:35:52

Local clock offset: 0.029 ms

Remote clock offset: 0.226 ms

# Below is generated by plot.py at 2018-06-02 02:12:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 405.08 Mbit/s

95th percentile per-packet one-way delay: 78.625 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 208.36 Mbit/s

95th percentile per-packet one-way delay: 75.804 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 209.76 Mbit/s

95th percentile per-packet one-way delay: 78.955 ms

Loss rate: 0.63%

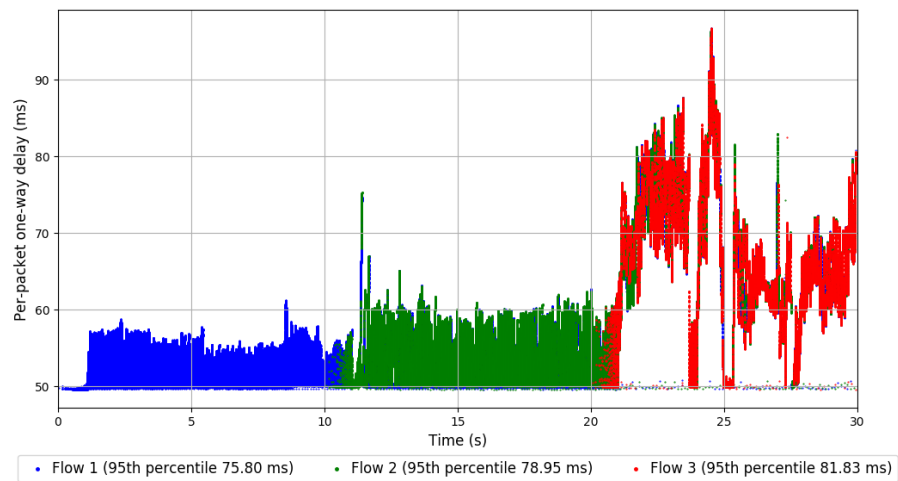
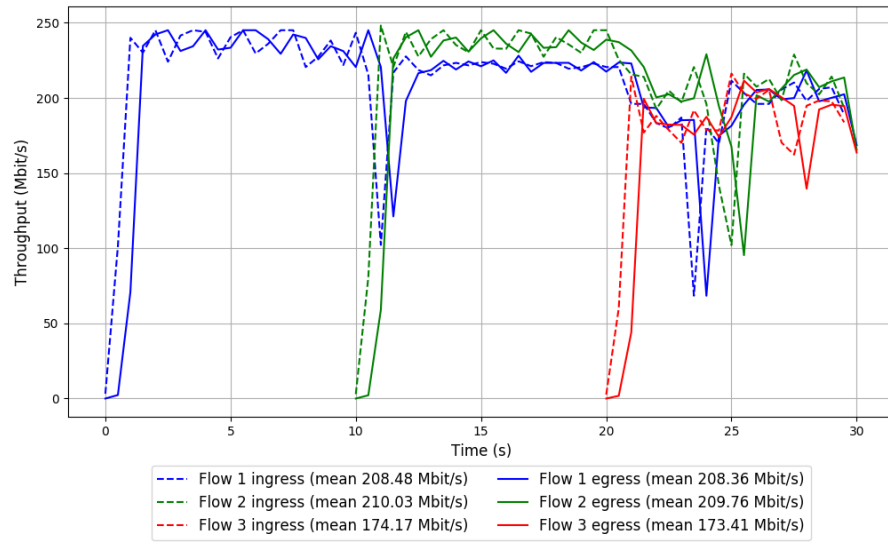
-- Flow 3:

Average throughput: 173.41 Mbit/s

95th percentile per-packet one-way delay: 81.825 ms

Loss rate: 1.48%

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



Run 8: Statistics of TCP BBR

Start at: 2018-06-02 00:58:06

End at: 2018-06-02 00:58:36

Local clock offset: 0.033 ms

Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2018-06-02 02:12:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 392.69 Mbit/s

95th percentile per-packet one-way delay: 88.525 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 208.84 Mbit/s

95th percentile per-packet one-way delay: 85.534 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 192.72 Mbit/s

95th percentile per-packet one-way delay: 88.072 ms

Loss rate: 0.58%

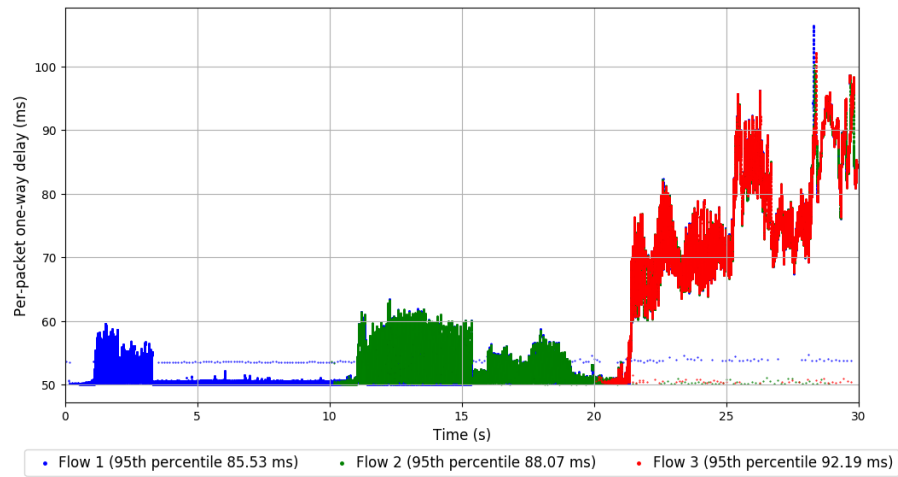
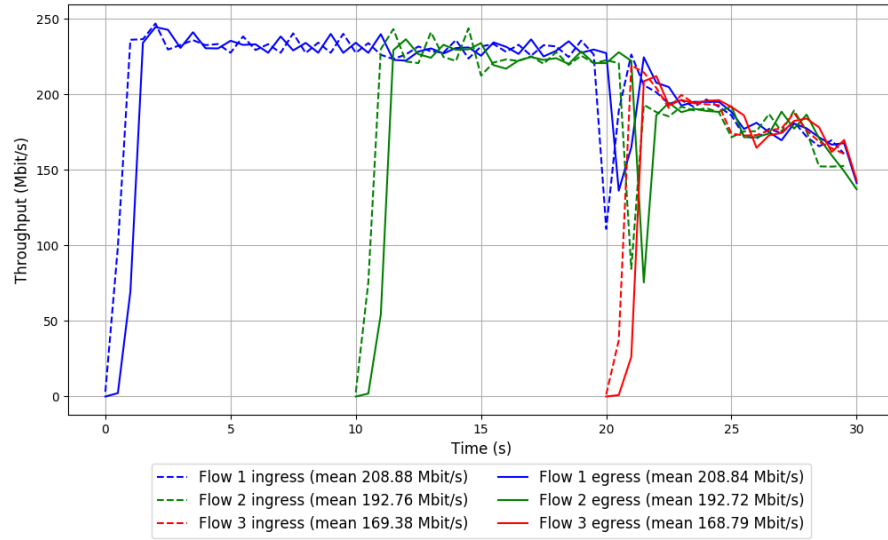
-- Flow 3:

Average throughput: 168.79 Mbit/s

95th percentile per-packet one-way delay: 92.186 ms

Loss rate: 1.38%

# Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-06-02 01:20:51

End at: 2018-06-02 01:21:21

Local clock offset: 0.123 ms

Remote clock offset: 0.104 ms

# Below is generated by plot.py at 2018-06-02 02:18:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 396.99 Mbit/s

95th percentile per-packet one-way delay: 83.182 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 206.57 Mbit/s

95th percentile per-packet one-way delay: 81.513 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 204.48 Mbit/s

95th percentile per-packet one-way delay: 84.462 ms

Loss rate: 0.57%

-- Flow 3:

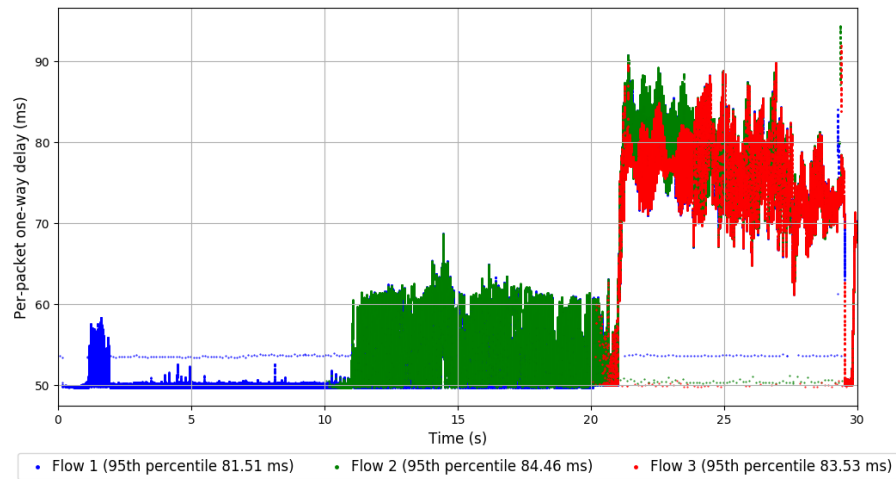
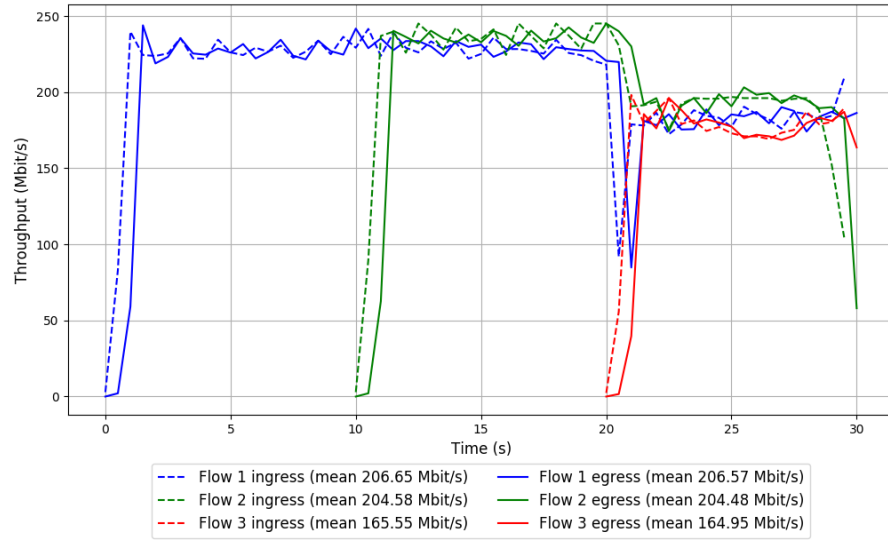
Average throughput: 164.95 Mbit/s

95th percentile per-packet one-way delay: 83.527 ms

Loss rate: 1.41%



# Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-06-02 01:44:10

End at: 2018-06-02 01:44:40

Local clock offset: 0.192 ms

Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2018-06-02 02:18:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 392.13 Mbit/s

95th percentile per-packet one-way delay: 89.016 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 208.60 Mbit/s

95th percentile per-packet one-way delay: 87.163 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 188.44 Mbit/s

95th percentile per-packet one-way delay: 89.005 ms

Loss rate: 0.60%

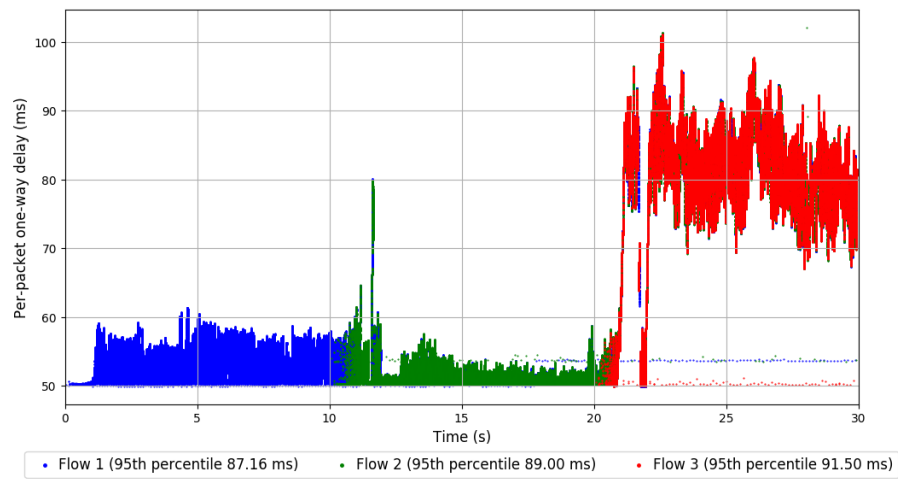
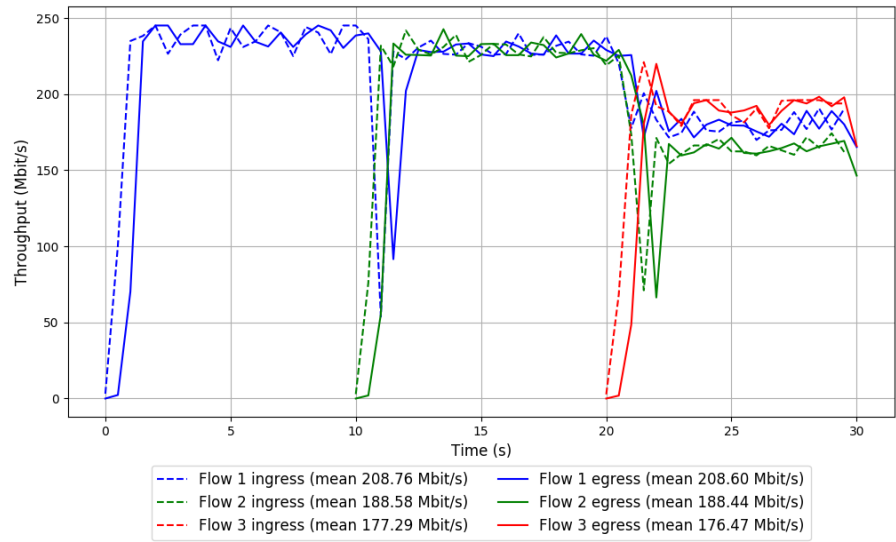
-- Flow 3:

Average throughput: 176.47 Mbit/s

95th percentile per-packet one-way delay: 91.503 ms

Loss rate: 1.49%

# Run 10: Report of TCP BBR — Data Link

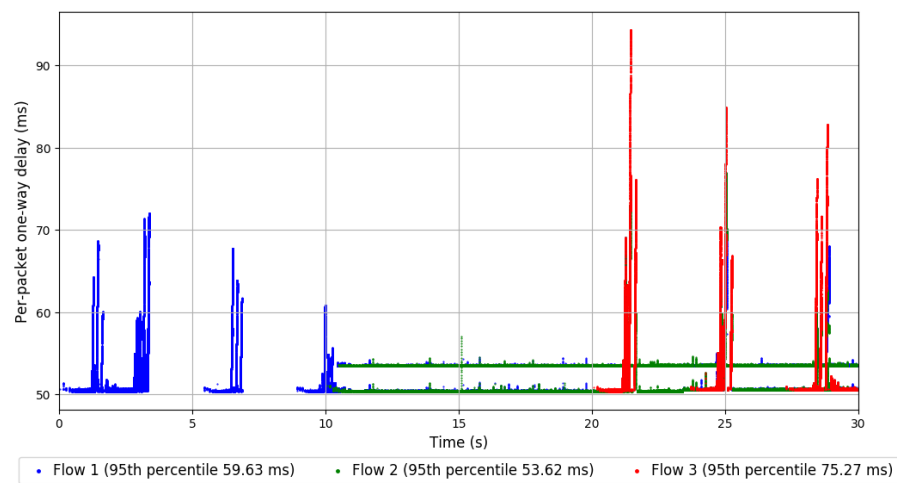
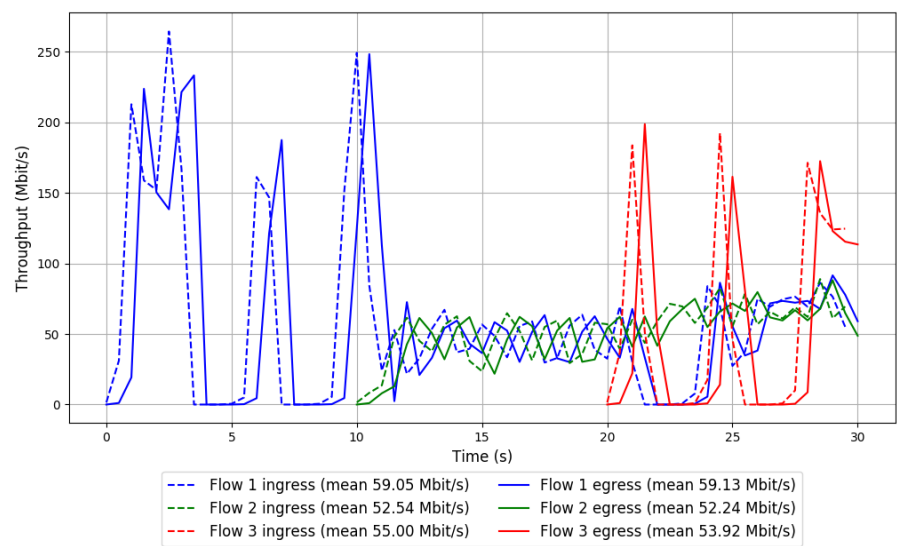


Run 1: Statistics of Copa

Start at: 2018-06-01 22:05:07  
End at: 2018-06-01 22:05:37  
Local clock offset: 0.57 ms  
Remote clock offset: -0.408 ms

# Below is generated by plot.py at 2018-06-02 02:18:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 111.66 Mbit/s  
95th percentile per-packet one-way delay: 63.001 ms  
Loss rate: 0.85%  
-- Flow 1:  
Average throughput: 59.13 Mbit/s  
95th percentile per-packet one-way delay: 59.631 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 52.24 Mbit/s  
95th percentile per-packet one-way delay: 53.618 ms  
Loss rate: 1.07%  
-- Flow 3:  
Average throughput: 53.92 Mbit/s  
95th percentile per-packet one-way delay: 75.272 ms  
Loss rate: 3.00%

Run 1: Report of Copa — Data Link

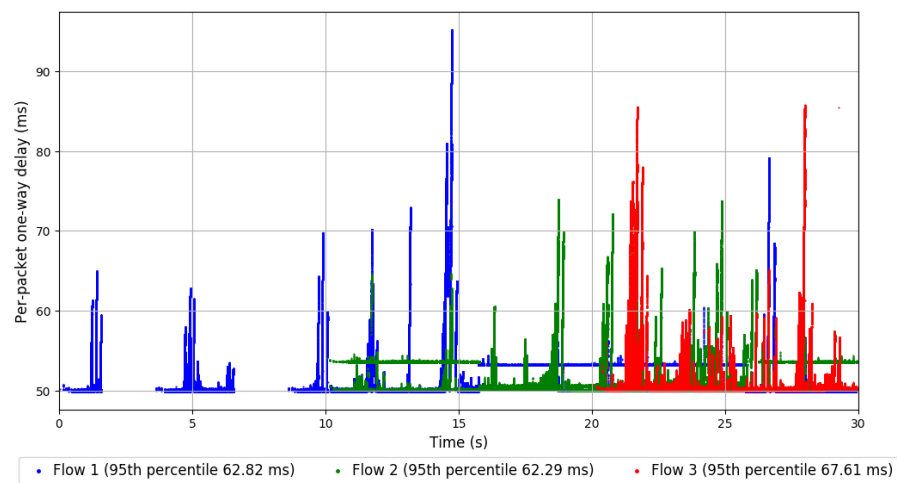
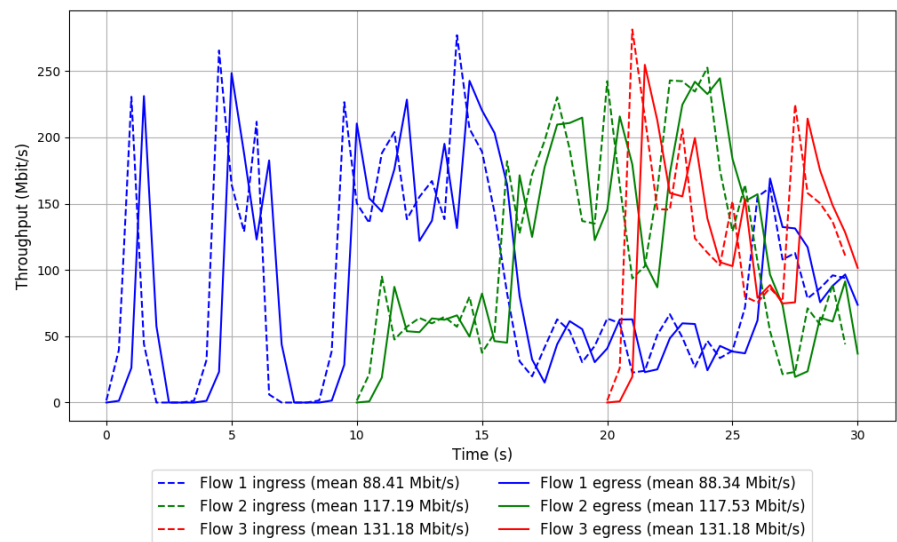


Run 2: Statistics of Copa

Start at: 2018-06-01 22:28:22  
End at: 2018-06-01 22:28:52  
Local clock offset: 0.49 ms  
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2018-06-02 02:18:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 209.72 Mbit/s  
95th percentile per-packet one-way delay: 63.197 ms  
Loss rate: 0.47%  
-- Flow 1:  
Average throughput: 88.34 Mbit/s  
95th percentile per-packet one-way delay: 62.816 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 117.53 Mbit/s  
95th percentile per-packet one-way delay: 62.291 ms  
Loss rate: 0.25%  
-- Flow 3:  
Average throughput: 131.18 Mbit/s  
95th percentile per-packet one-way delay: 67.613 ms  
Loss rate: 0.96%

Run 2: Report of Copa — Data Link



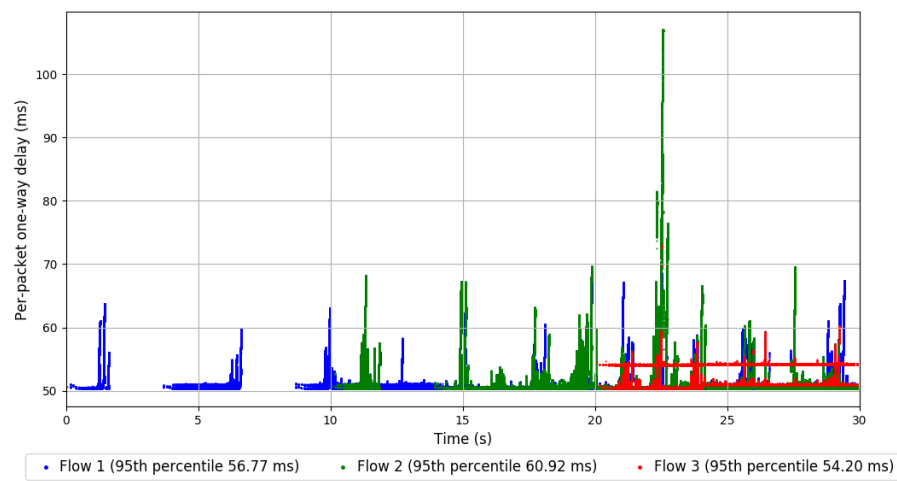
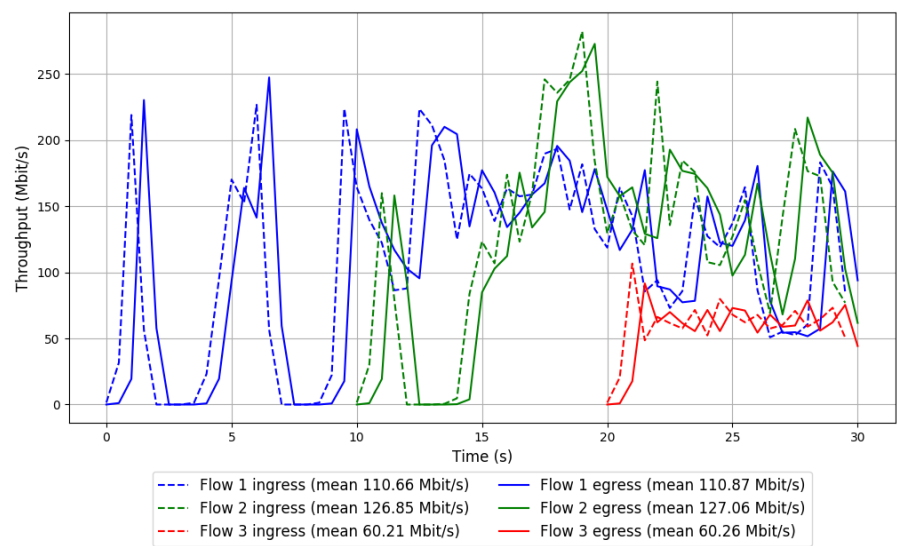
Run 3: Statistics of Copa

Start at: 2018-06-01 22:51:17  
End at: 2018-06-01 22:51:47  
Local clock offset: 0.743 ms  
Remote clock offset: -0.318 ms

# Below is generated by plot.py at 2018-06-02 02:18:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 215.19 Mbit/s  
95th percentile per-packet one-way delay: 57.742 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 110.87 Mbit/s  
95th percentile per-packet one-way delay: 56.768 ms  
Loss rate: 0.16%  
-- Flow 2:  
Average throughput: 127.06 Mbit/s  
95th percentile per-packet one-way delay: 60.920 ms  
Loss rate: 0.35%  
-- Flow 3:  
Average throughput: 60.26 Mbit/s  
95th percentile per-packet one-way delay: 54.195 ms  
Loss rate: 1.00%



Run 3: Report of Copa — Data Link

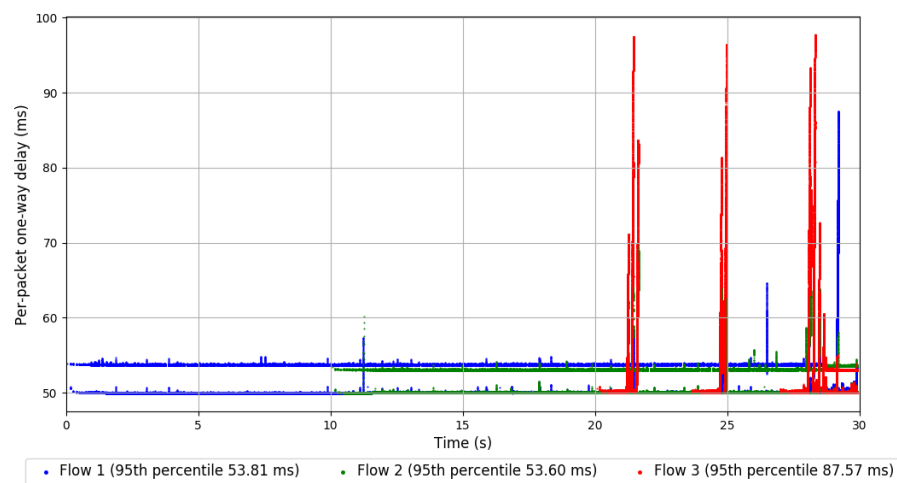
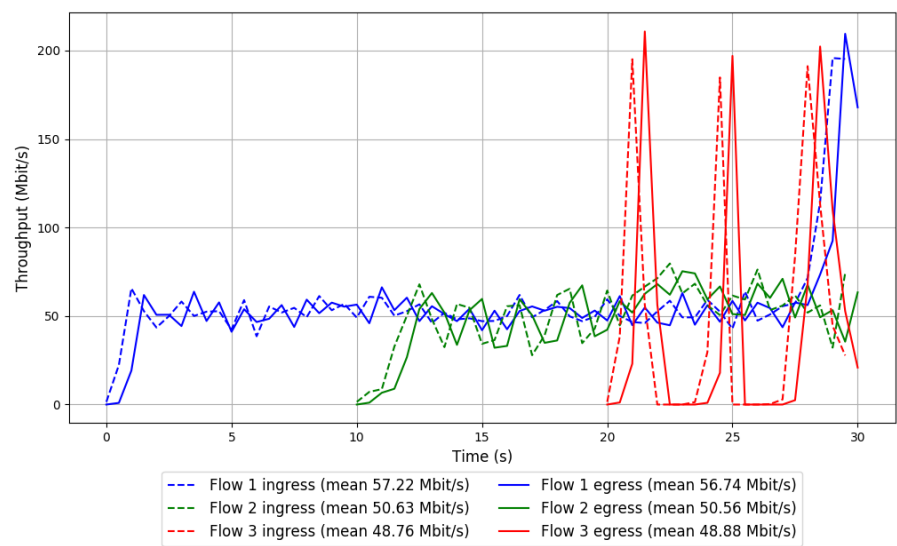


Run 4: Statistics of Copa

Start at: 2018-06-01 23:14:29  
End at: 2018-06-01 23:14:59  
Local clock offset: 0.523 ms  
Remote clock offset: -0.142 ms

# Below is generated by plot.py at 2018-06-02 02:18:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 106.43 Mbit/s  
95th percentile per-packet one-way delay: 62.778 ms  
Loss rate: 0.97%  
-- Flow 1:  
Average throughput: 56.74 Mbit/s  
95th percentile per-packet one-way delay: 53.812 ms  
Loss rate: 1.20%  
-- Flow 2:  
Average throughput: 50.56 Mbit/s  
95th percentile per-packet one-way delay: 53.596 ms  
Loss rate: 0.68%  
-- Flow 3:  
Average throughput: 48.88 Mbit/s  
95th percentile per-packet one-way delay: 87.572 ms  
Loss rate: 0.79%

Run 4: Report of Copa — Data Link

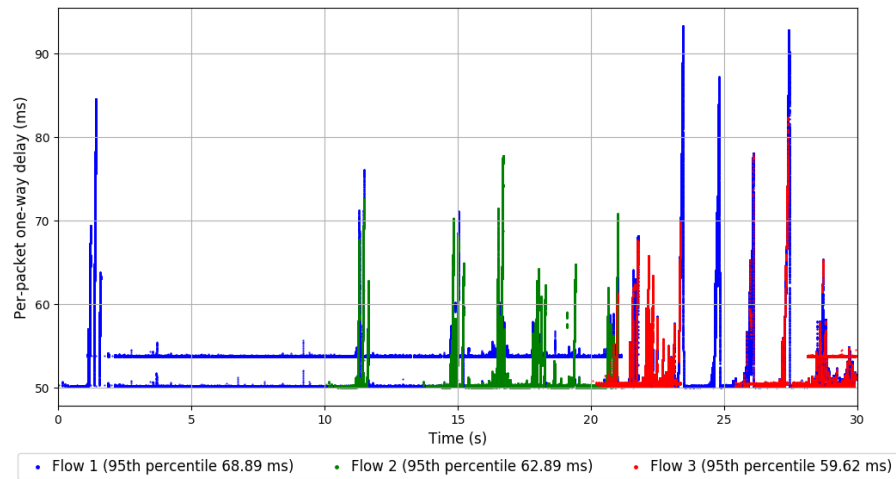
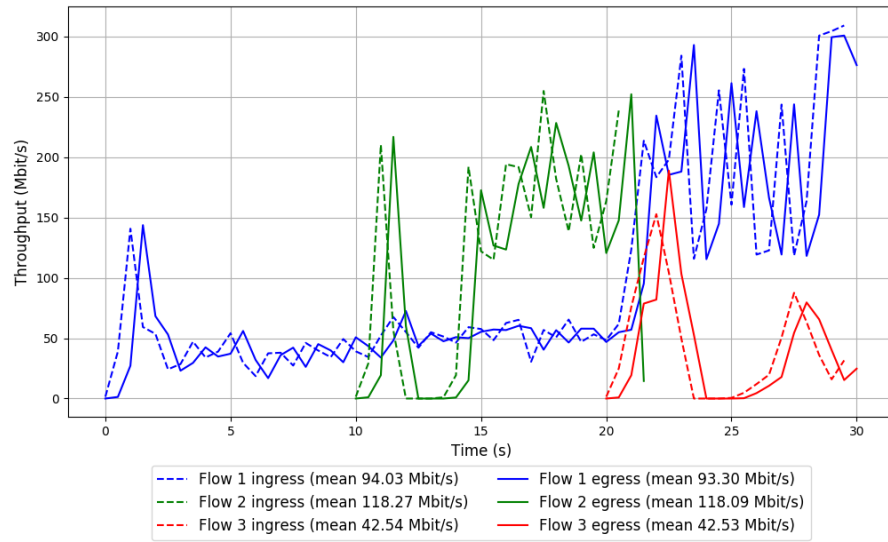


Run 5: Statistics of Copa

Start at: 2018-06-01 23:37:20  
End at: 2018-06-01 23:37:50  
Local clock offset: 0.26 ms  
Remote clock offset: -0.195 ms

# Below is generated by plot.py at 2018-06-02 02:18:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 150.64 Mbit/s  
95th percentile per-packet one-way delay: 66.146 ms  
Loss rate: 0.78%  
-- Flow 1:  
Average throughput: 93.30 Mbit/s  
95th percentile per-packet one-way delay: 68.892 ms  
Loss rate: 1.10%  
-- Flow 2:  
Average throughput: 118.09 Mbit/s  
95th percentile per-packet one-way delay: 62.893 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 42.53 Mbit/s  
95th percentile per-packet one-way delay: 59.622 ms  
Loss rate: 1.06%

## Run 5: Report of Copa — Data Link

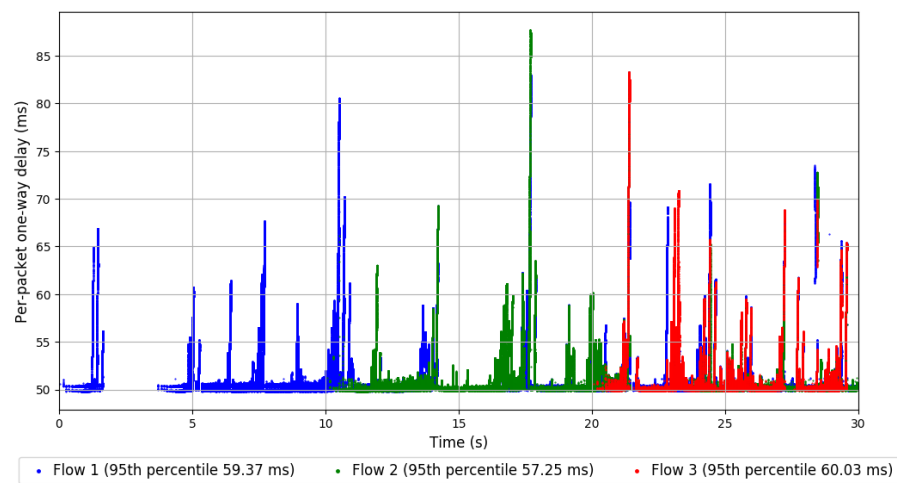
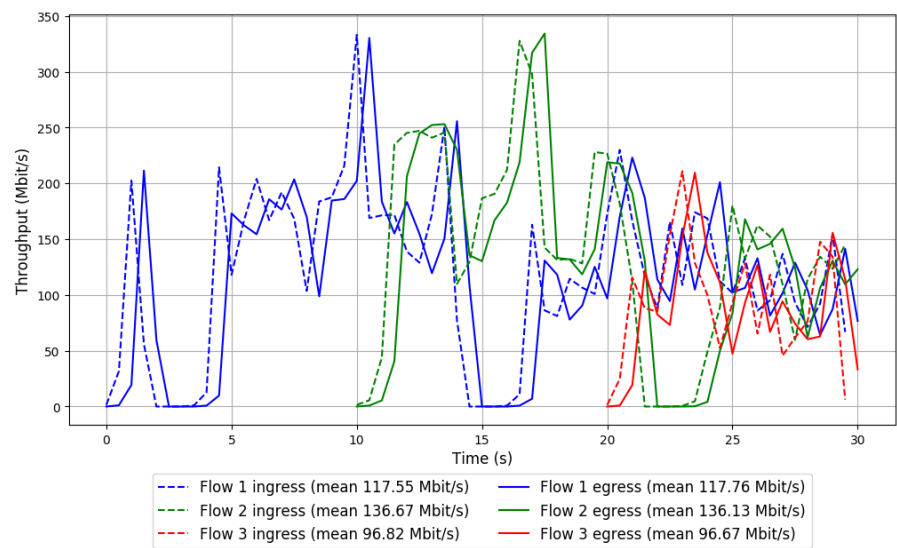


Run 6: Statistics of Copa

Start at: 2018-06-02 00:00:08  
End at: 2018-06-02 00:00:38  
Local clock offset: -0.061 ms  
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2018-06-02 02:19:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 238.81 Mbit/s  
95th percentile per-packet one-way delay: 58.723 ms  
Loss rate: 0.45%  
-- Flow 1:  
Average throughput: 117.76 Mbit/s  
95th percentile per-packet one-way delay: 59.365 ms  
Loss rate: 0.22%  
-- Flow 2:  
Average throughput: 136.13 Mbit/s  
95th percentile per-packet one-way delay: 57.254 ms  
Loss rate: 0.90%  
-- Flow 3:  
Average throughput: 96.67 Mbit/s  
95th percentile per-packet one-way delay: 60.028 ms  
Loss rate: 0.00%

Run 6: Report of Copa — Data Link



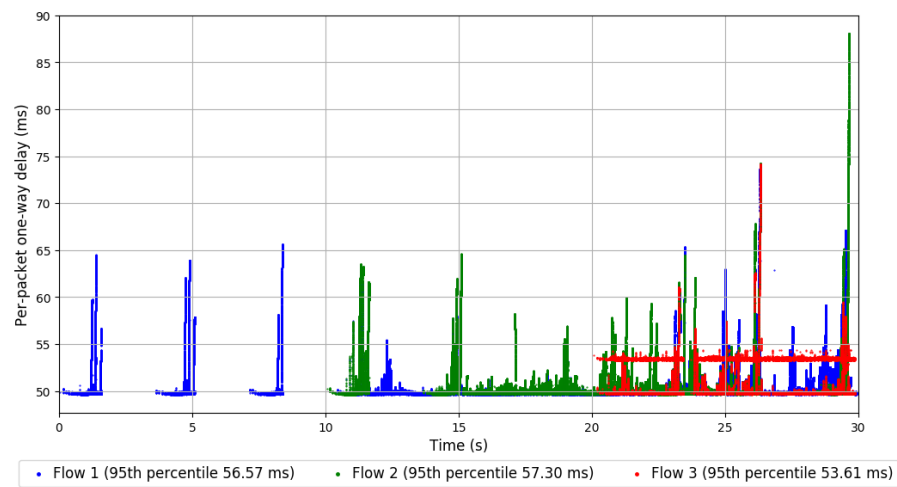
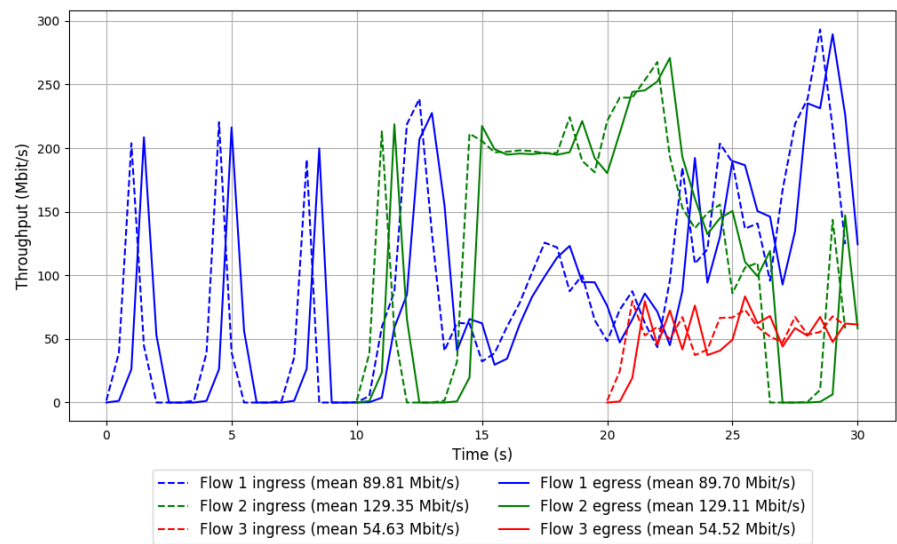
Run 7: Statistics of Copa

Start at: 2018-06-02 00:23:18  
End at: 2018-06-02 00:23:48  
Local clock offset: -0.138 ms  
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2018-06-02 02:21:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 192.30 Mbit/s  
95th percentile per-packet one-way delay: 56.636 ms  
Loss rate: 0.34%  
-- Flow 1:  
Average throughput: 89.70 Mbit/s  
95th percentile per-packet one-way delay: 56.572 ms  
Loss rate: 0.47%  
-- Flow 2:  
Average throughput: 129.11 Mbit/s  
95th percentile per-packet one-way delay: 57.300 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 54.52 Mbit/s  
95th percentile per-packet one-way delay: 53.606 ms  
Loss rate: 1.28%



Run 7: Report of Copa — Data Link

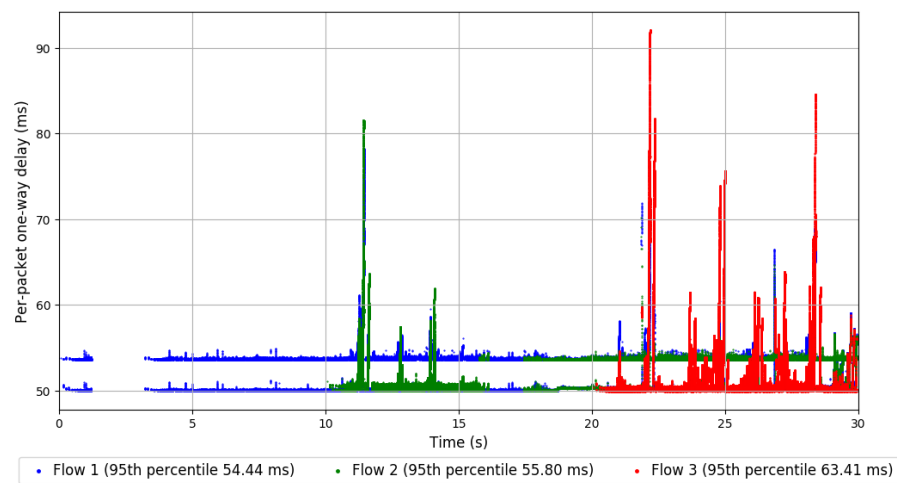
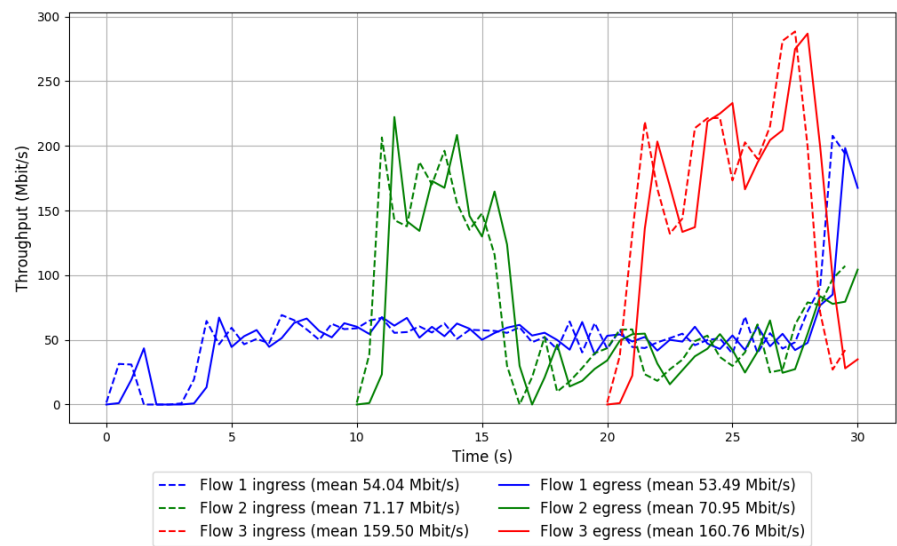


Run 8: Statistics of Copa

Start at: 2018-06-02 00:46:22  
End at: 2018-06-02 00:46:52  
Local clock offset: 0.017 ms  
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2018-06-02 02:21:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 153.75 Mbit/s  
95th percentile per-packet one-way delay: 57.925 ms  
Loss rate: 0.82%  
-- Flow 1:  
Average throughput: 53.49 Mbit/s  
95th percentile per-packet one-way delay: 54.437 ms  
Loss rate: 1.36%  
-- Flow 2:  
Average throughput: 70.95 Mbit/s  
95th percentile per-packet one-way delay: 55.795 ms  
Loss rate: 0.85%  
-- Flow 3:  
Average throughput: 160.76 Mbit/s  
95th percentile per-packet one-way delay: 63.414 ms  
Loss rate: 0.26%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-06-02 01:09:11

End at: 2018-06-02 01:09:41

Local clock offset: 0.039 ms

Remote clock offset: 0.089 ms

# Below is generated by plot.py at 2018-06-02 02:21:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 112.78 Mbit/s

95th percentile per-packet one-way delay: 53.745 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 58.06 Mbit/s

95th percentile per-packet one-way delay: 53.621 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 53.79 Mbit/s

95th percentile per-packet one-way delay: 53.787 ms

Loss rate: 0.14%

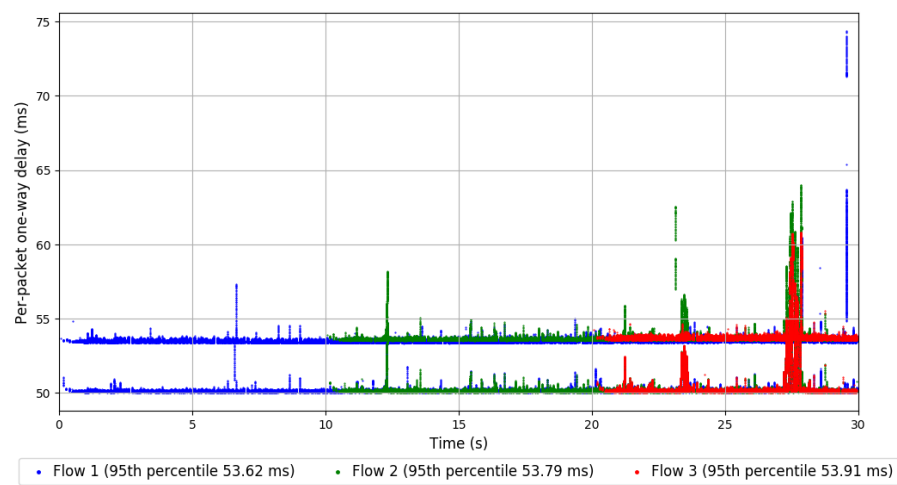
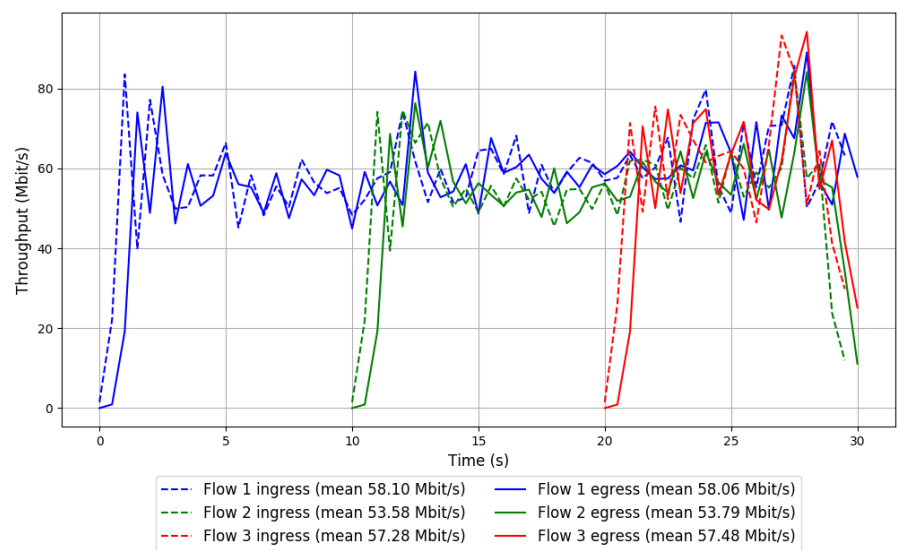
-- Flow 3:

Average throughput: 57.48 Mbit/s

95th percentile per-packet one-way delay: 53.905 ms

Loss rate: 0.74%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-06-02 01:32:07

End at: 2018-06-02 01:32:37

Local clock offset: 0.263 ms

Remote clock offset: 0.06 ms

# Below is generated by plot.py at 2018-06-02 02:21:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 123.59 Mbit/s

95th percentile per-packet one-way delay: 55.685 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 82.05 Mbit/s

95th percentile per-packet one-way delay: 56.585 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 42.72 Mbit/s

95th percentile per-packet one-way delay: 56.155 ms

Loss rate: 0.95%

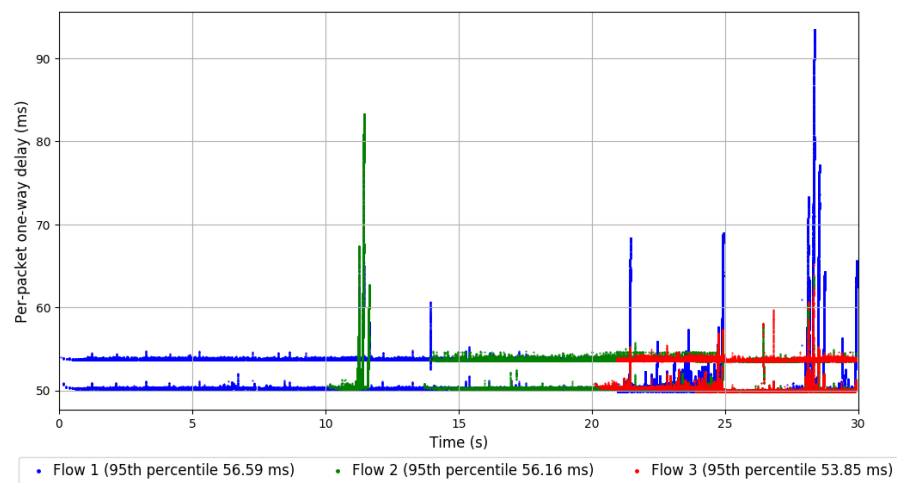
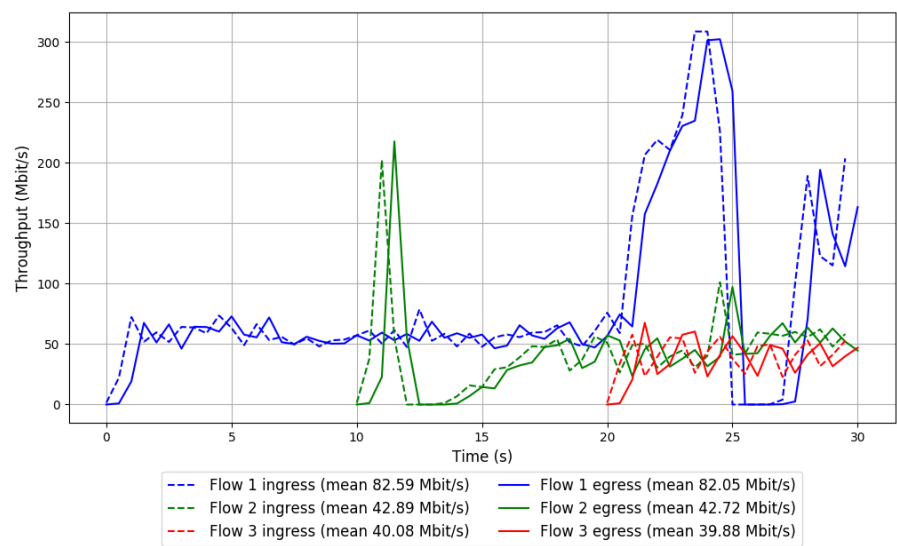
-- Flow 3:

Average throughput: 39.88 Mbit/s

95th percentile per-packet one-way delay: 53.851 ms

Loss rate: 1.51%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-06-01 22:11:40

End at: 2018-06-01 22:12:10

Local clock offset: 0.485 ms

Remote clock offset: -0.28 ms

# Below is generated by plot.py at 2018-06-02 02:23:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 309.00 Mbit/s

95th percentile per-packet one-way delay: 58.130 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 227.88 Mbit/s

95th percentile per-packet one-way delay: 58.358 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 119.55 Mbit/s

95th percentile per-packet one-way delay: 55.901 ms

Loss rate: 0.73%

-- Flow 3:

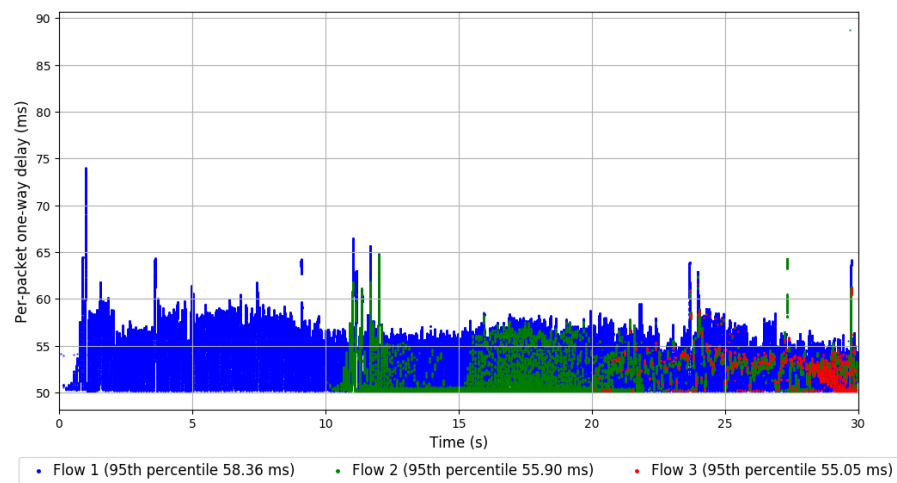
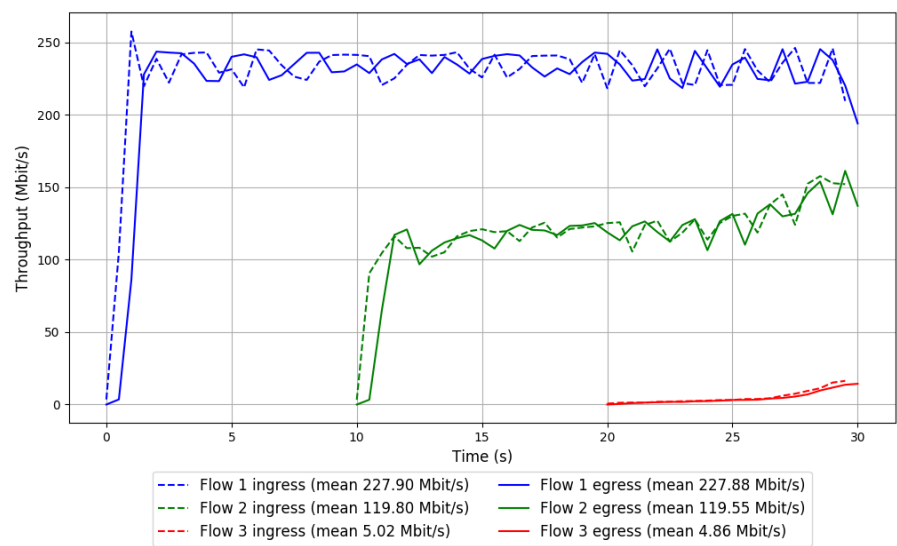
Average throughput: 4.86 Mbit/s

95th percentile per-packet one-way delay: 55.045 ms

Loss rate: 4.21%



Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-06-01 22:34:47

End at: 2018-06-01 22:35:17

Local clock offset: 0.797 ms

Remote clock offset: 0.178 ms

# Below is generated by plot.py at 2018-06-02 02:23:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 352.26 Mbit/s

95th percentile per-packet one-way delay: 59.225 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 165.79 Mbit/s

95th percentile per-packet one-way delay: 59.070 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 225.36 Mbit/s

95th percentile per-packet one-way delay: 59.575 ms

Loss rate: 0.55%

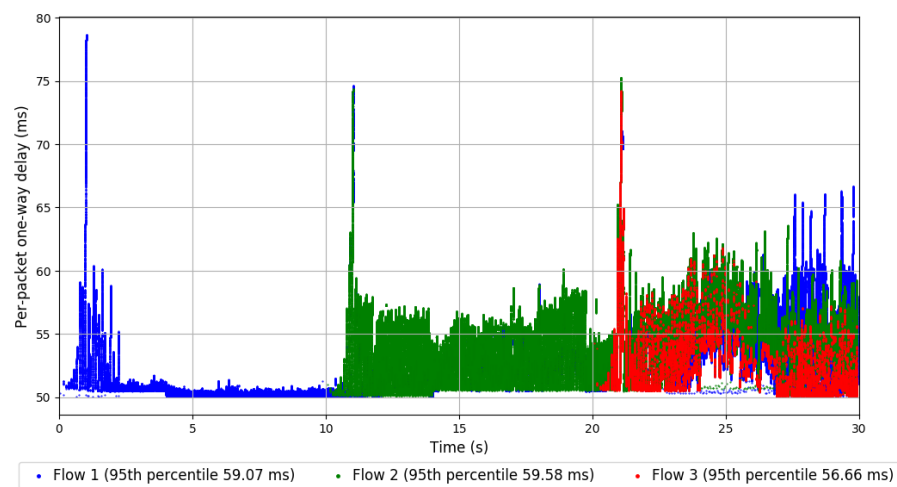
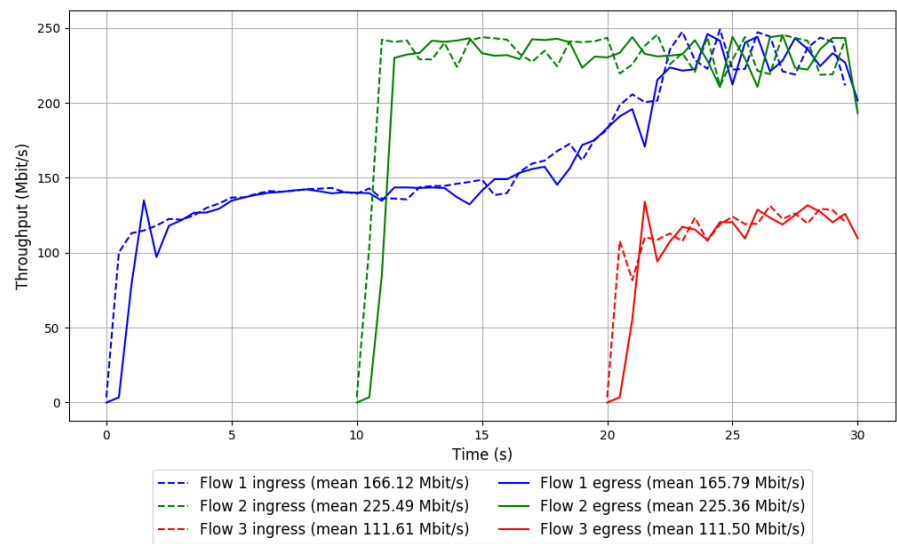
-- Flow 3:

Average throughput: 111.50 Mbit/s

95th percentile per-packet one-way delay: 56.655 ms

Loss rate: 1.19%

Run 2: Report of TCP Cubic — Data Link

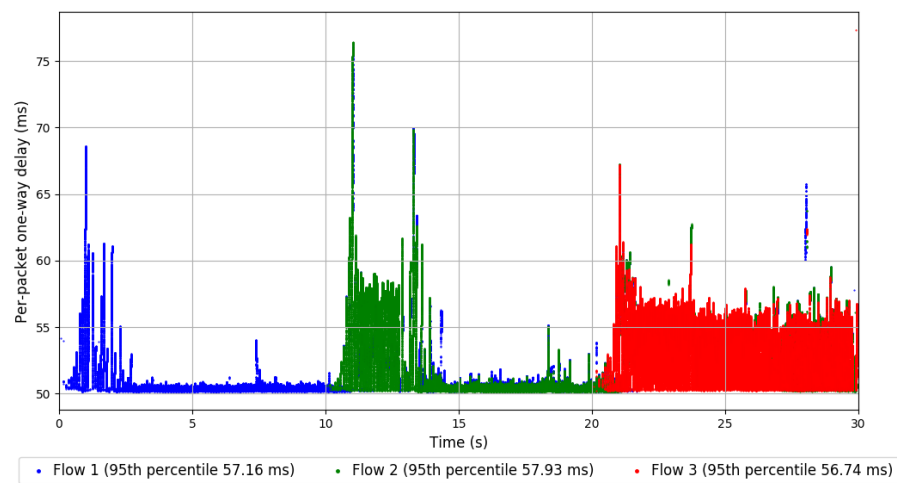
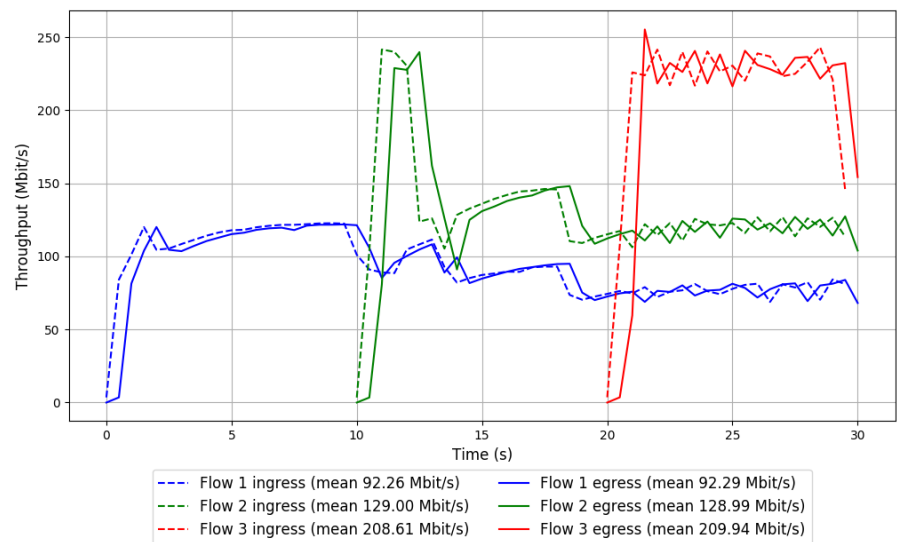


Run 3: Statistics of TCP Cubic

Start at: 2018-06-01 22:57:57  
End at: 2018-06-01 22:58:27  
Local clock offset: 0.831 ms  
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2018-06-02 02:23:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 247.34 Mbit/s  
95th percentile per-packet one-way delay: 57.425 ms  
Loss rate: 0.41%  
-- Flow 1:  
Average throughput: 92.29 Mbit/s  
95th percentile per-packet one-way delay: 57.158 ms  
Loss rate: 0.32%  
-- Flow 2:  
Average throughput: 128.99 Mbit/s  
95th percentile per-packet one-way delay: 57.931 ms  
Loss rate: 0.50%  
-- Flow 3:  
Average throughput: 209.94 Mbit/s  
95th percentile per-packet one-way delay: 56.738 ms  
Loss rate: 0.39%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-06-01 23:21:03

End at: 2018-06-01 23:21:33

Local clock offset: 0.556 ms

Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2018-06-02 02:24:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 302.00 Mbit/s

95th percentile per-packet one-way delay: 57.742 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 186.97 Mbit/s

95th percentile per-packet one-way delay: 58.213 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 125.20 Mbit/s

95th percentile per-packet one-way delay: 55.321 ms

Loss rate: 0.56%

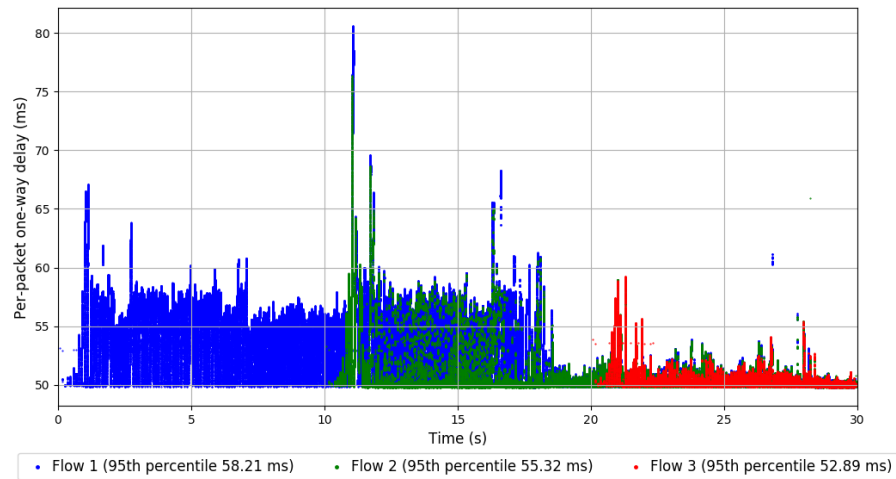
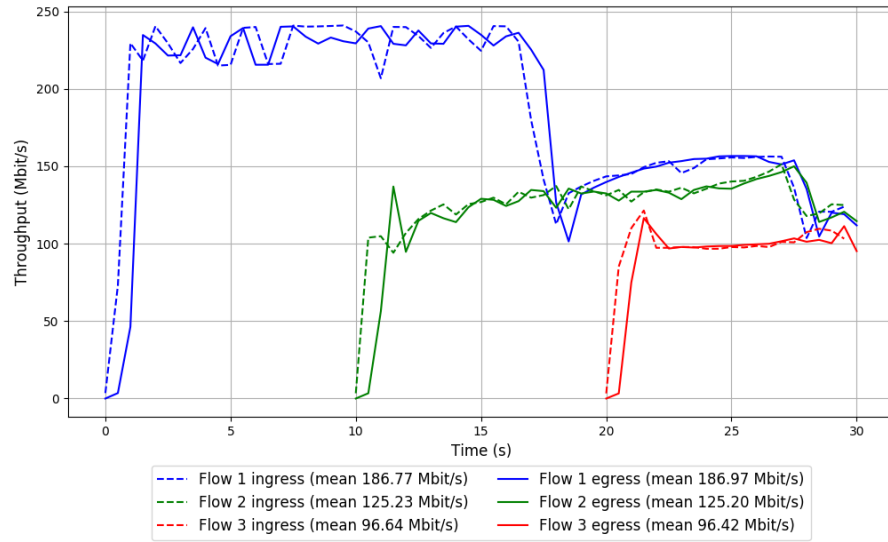
-- Flow 3:

Average throughput: 96.42 Mbit/s

95th percentile per-packet one-way delay: 52.888 ms

Loss rate: 1.23%

# Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-06-01 23:43:48

End at: 2018-06-01 23:44:18

Local clock offset: -0.006 ms

Remote clock offset: 0.143 ms

# Below is generated by plot.py at 2018-06-02 02:25:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 316.56 Mbit/s

95th percentile per-packet one-way delay: 58.249 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 174.95 Mbit/s

95th percentile per-packet one-way delay: 58.743 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 107.56 Mbit/s

95th percentile per-packet one-way delay: 56.880 ms

Loss rate: 0.74%

-- Flow 3:

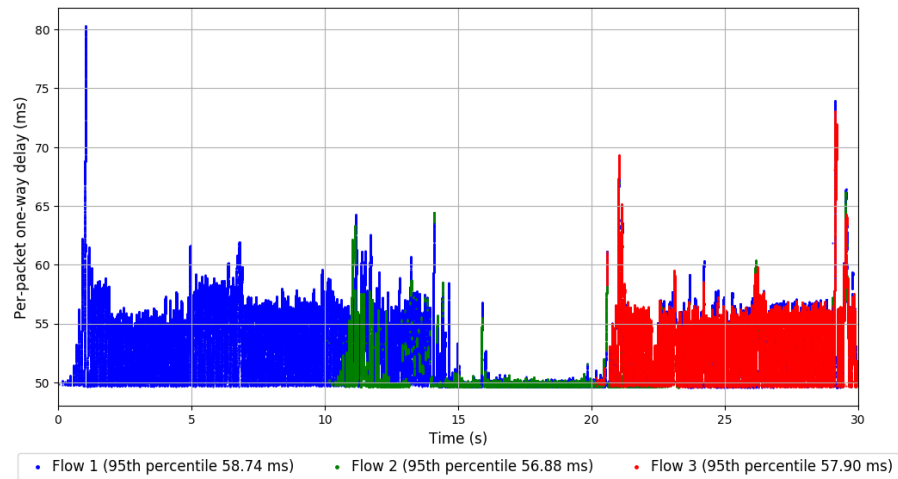
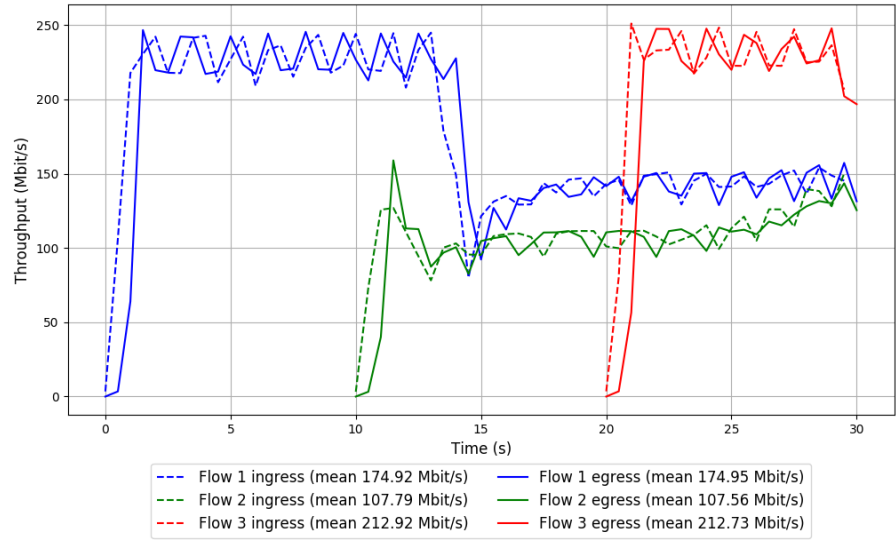
Average throughput: 212.73 Mbit/s

95th percentile per-packet one-way delay: 57.899 ms

Loss rate: 1.14%



## Run 5: Report of TCP Cubic — Data Link

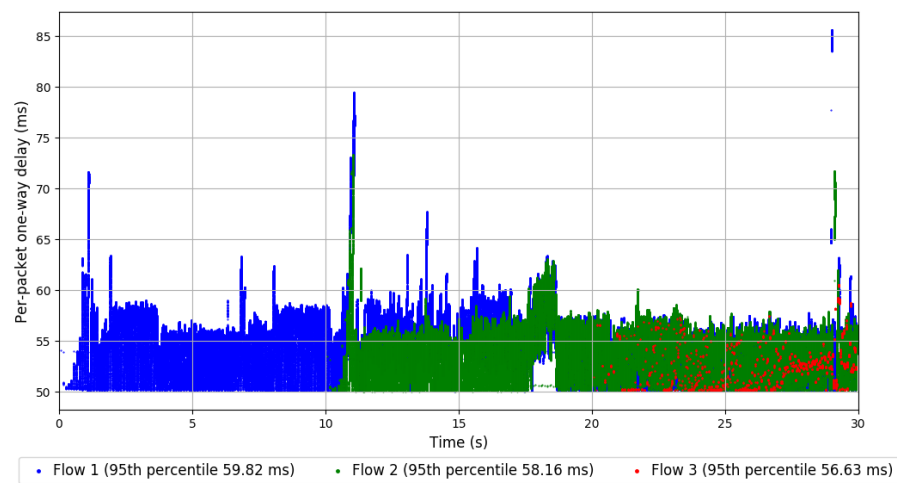
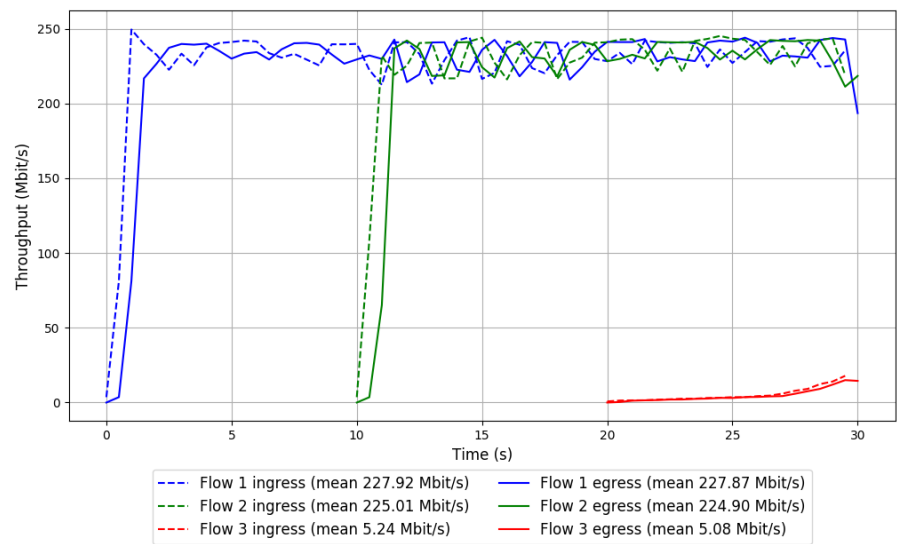


Run 6: Statistics of TCP Cubic

Start at: 2018-06-02 00:06:43  
End at: 2018-06-02 00:07:13  
Local clock offset: 0.129 ms  
Remote clock offset: -0.114 ms

# Below is generated by plot.py at 2018-06-02 02:26:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 378.87 Mbit/s  
95th percentile per-packet one-way delay: 59.479 ms  
Loss rate: 0.45%  
-- Flow 1:  
Average throughput: 227.87 Mbit/s  
95th percentile per-packet one-way delay: 59.823 ms  
Loss rate: 0.35%  
-- Flow 2:  
Average throughput: 224.90 Mbit/s  
95th percentile per-packet one-way delay: 58.155 ms  
Loss rate: 0.54%  
-- Flow 3:  
Average throughput: 5.08 Mbit/s  
95th percentile per-packet one-way delay: 56.629 ms  
Loss rate: 3.99%

Run 6: Report of TCP Cubic — Data Link

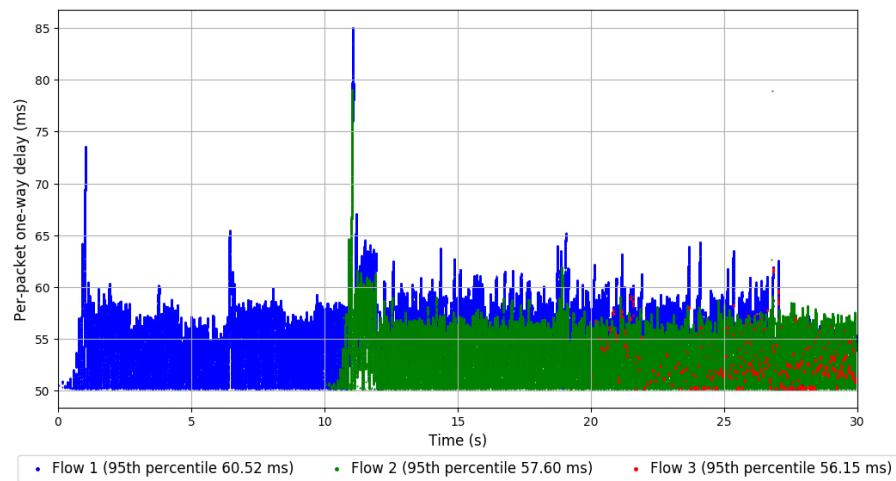
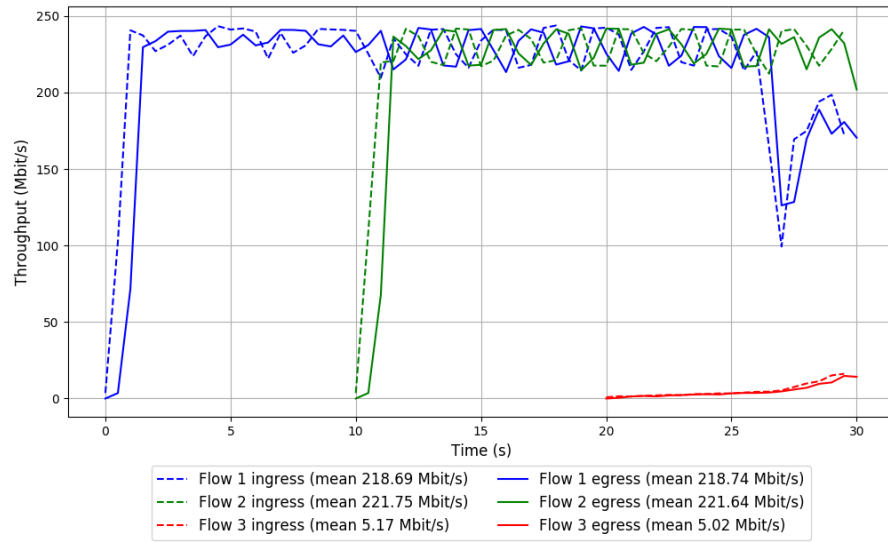


Run 7: Statistics of TCP Cubic

Start at: 2018-06-02 00:29:59  
End at: 2018-06-02 00:30:29  
Local clock offset: 0.084 ms  
Remote clock offset: -0.263 ms

# Below is generated by plot.py at 2018-06-02 02:27:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 367.75 Mbit/s  
95th percentile per-packet one-way delay: 59.708 ms  
Loss rate: 0.42%  
-- Flow 1:  
Average throughput: 218.74 Mbit/s  
95th percentile per-packet one-way delay: 60.523 ms  
Loss rate: 0.31%  
-- Flow 2:  
Average throughput: 221.64 Mbit/s  
95th percentile per-packet one-way delay: 57.600 ms  
Loss rate: 0.54%  
-- Flow 3:  
Average throughput: 5.02 Mbit/s  
95th percentile per-packet one-way delay: 56.148 ms  
Loss rate: 3.97%

# Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-06-02 00:52:43

End at: 2018-06-02 00:53:13

Local clock offset: 0.071 ms

Remote clock offset: 0.058 ms

# Below is generated by plot.py at 2018-06-02 02:28:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 393.65 Mbit/s

95th percentile per-packet one-way delay: 64.241 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 219.26 Mbit/s

95th percentile per-packet one-way delay: 63.945 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 215.28 Mbit/s

95th percentile per-packet one-way delay: 64.566 ms

Loss rate: 0.22%

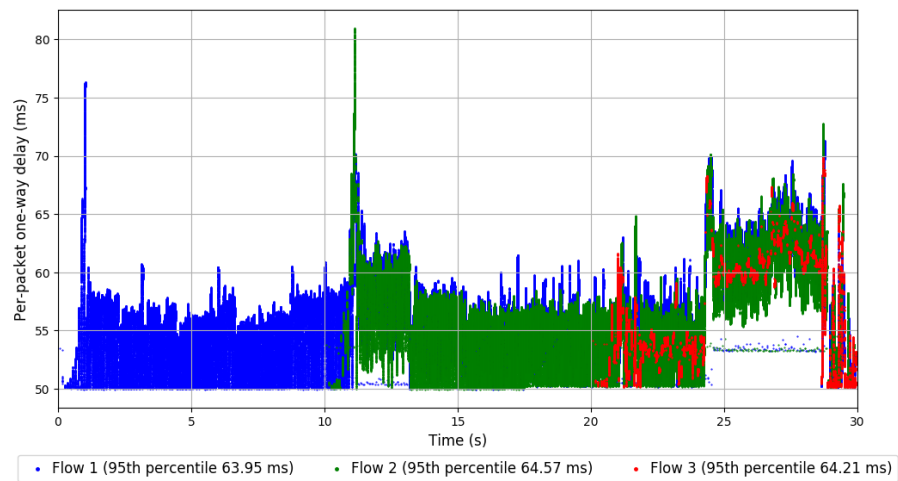
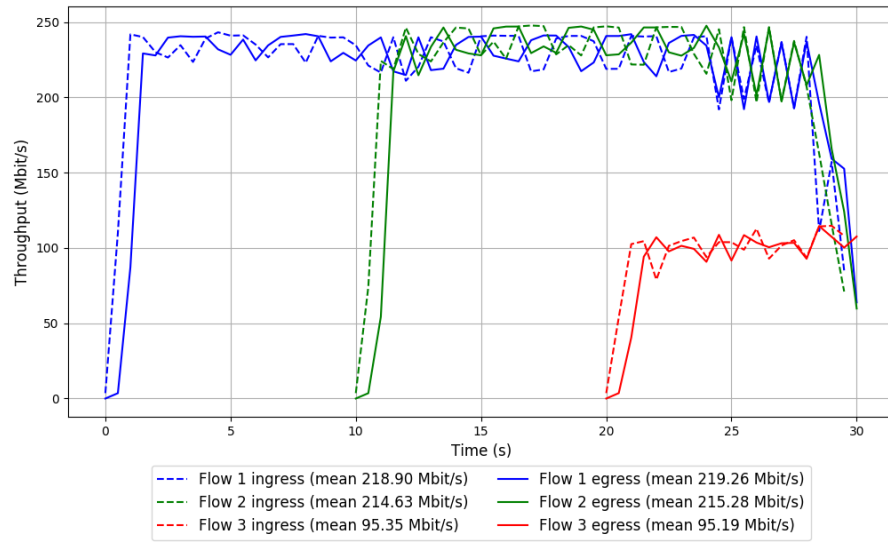
-- Flow 3:

Average throughput: 95.19 Mbit/s

95th percentile per-packet one-way delay: 64.211 ms

Loss rate: 1.21%

# Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-06-02 01:15:37

End at: 2018-06-02 01:16:07

Local clock offset: 0.327 ms

Remote clock offset: 0.095 ms

# Below is generated by plot.py at 2018-06-02 02:28:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 362.66 Mbit/s

95th percentile per-packet one-way delay: 59.399 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 218.44 Mbit/s

95th percentile per-packet one-way delay: 58.546 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 214.83 Mbit/s

95th percentile per-packet one-way delay: 59.935 ms

Loss rate: 0.30%

-- Flow 3:

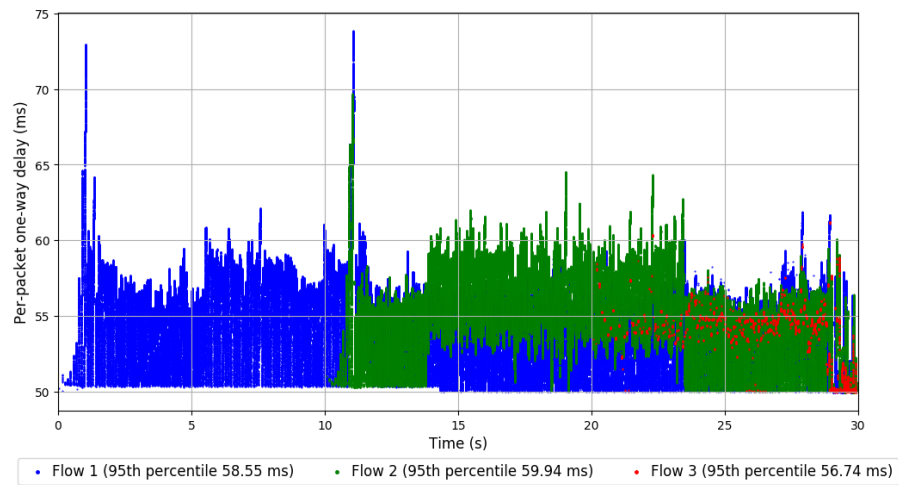
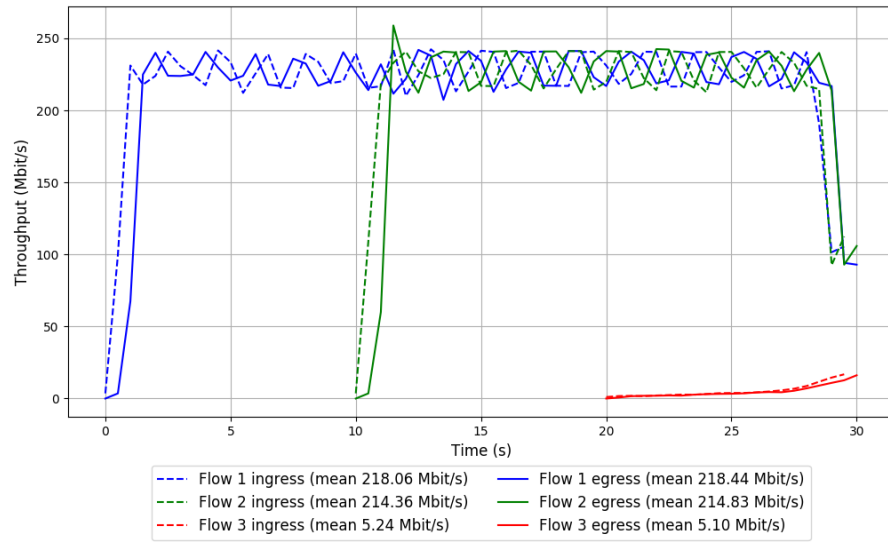
Average throughput: 5.10 Mbit/s

95th percentile per-packet one-way delay: 56.739 ms

Loss rate: 3.70%



# Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-06-02 01:38:47

End at: 2018-06-02 01:39:17

Local clock offset: 0.36 ms

Remote clock offset: 0.061 ms

# Below is generated by plot.py at 2018-06-02 02:29:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 370.90 Mbit/s

95th percentile per-packet one-way delay: 60.096 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 220.52 Mbit/s

95th percentile per-packet one-way delay: 58.663 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 224.01 Mbit/s

95th percentile per-packet one-way delay: 61.202 ms

Loss rate: 0.54%

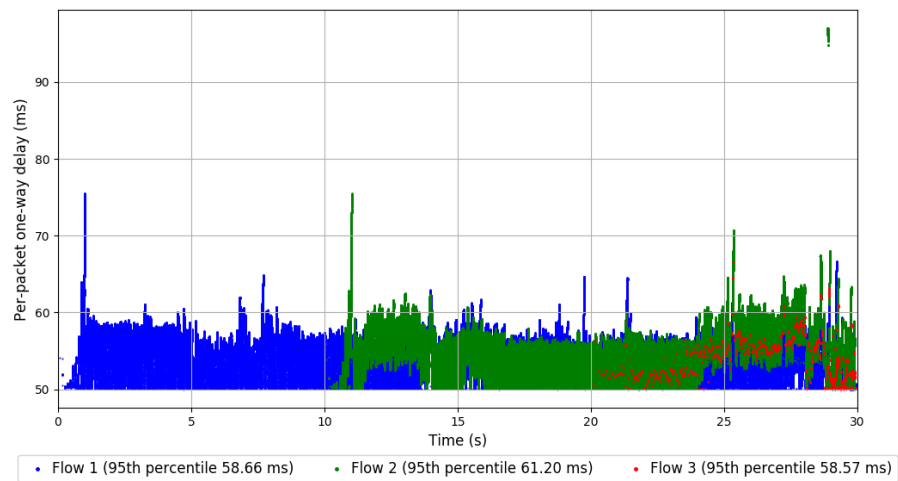
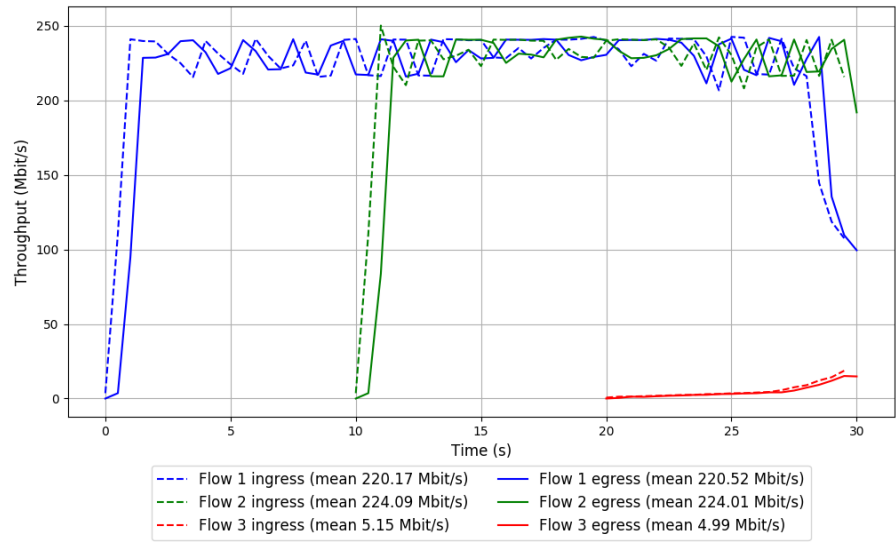
-- Flow 3:

Average throughput: 4.99 Mbit/s

95th percentile per-packet one-way delay: 58.567 ms

Loss rate: 4.12%

# Run 10: Report of TCP Cubic — Data Link

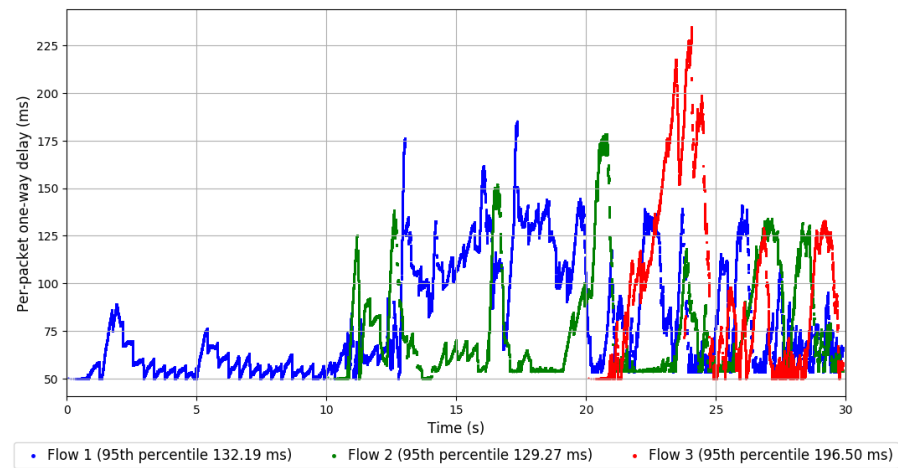
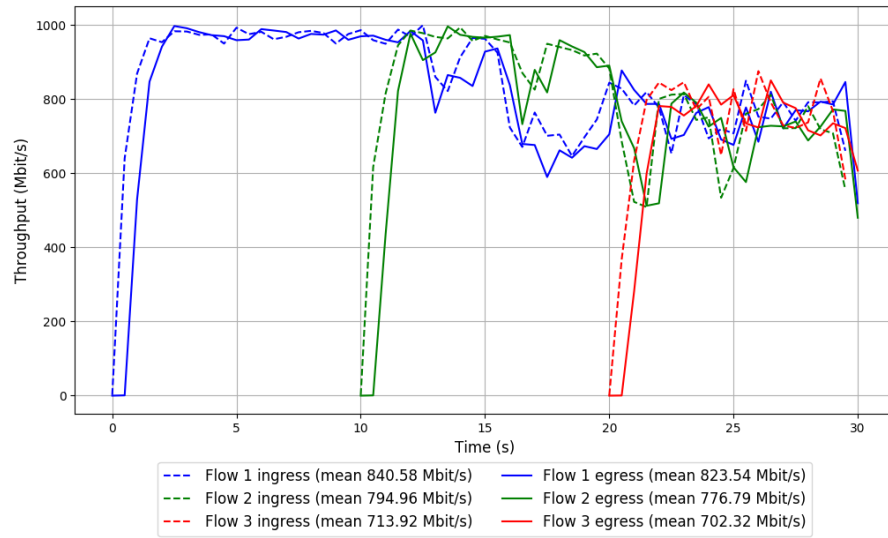


Run 1: Statistics of FillP

Start at: 2018-06-01 21:59:54  
End at: 2018-06-01 22:00:24  
Local clock offset: 0.597 ms  
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2018-06-02 02:55:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1570.46 Mbit/s  
95th percentile per-packet one-way delay: 138.389 ms  
Loss rate: 2.55%  
-- Flow 1:  
Average throughput: 823.54 Mbit/s  
95th percentile per-packet one-way delay: 132.191 ms  
Loss rate: 2.37%  
-- Flow 2:  
Average throughput: 776.79 Mbit/s  
95th percentile per-packet one-way delay: 129.273 ms  
Loss rate: 2.80%  
-- Flow 3:  
Average throughput: 702.32 Mbit/s  
95th percentile per-packet one-way delay: 196.500 ms  
Loss rate: 2.66%

## Run 1: Report of FillP — Data Link

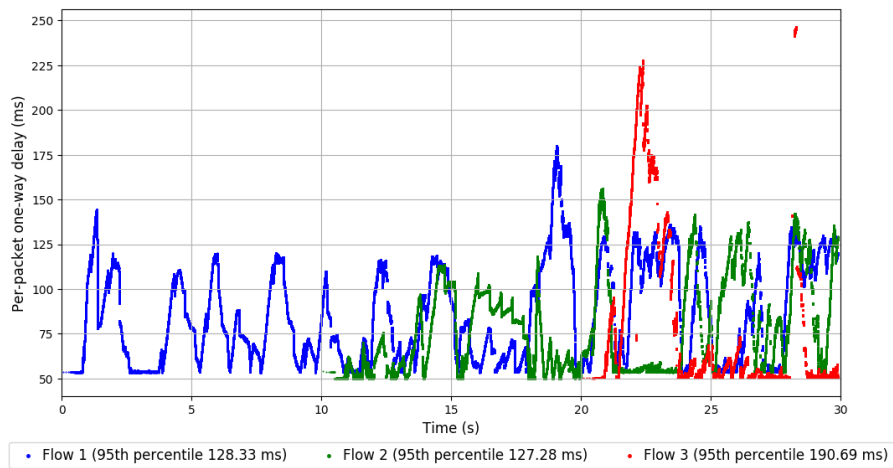
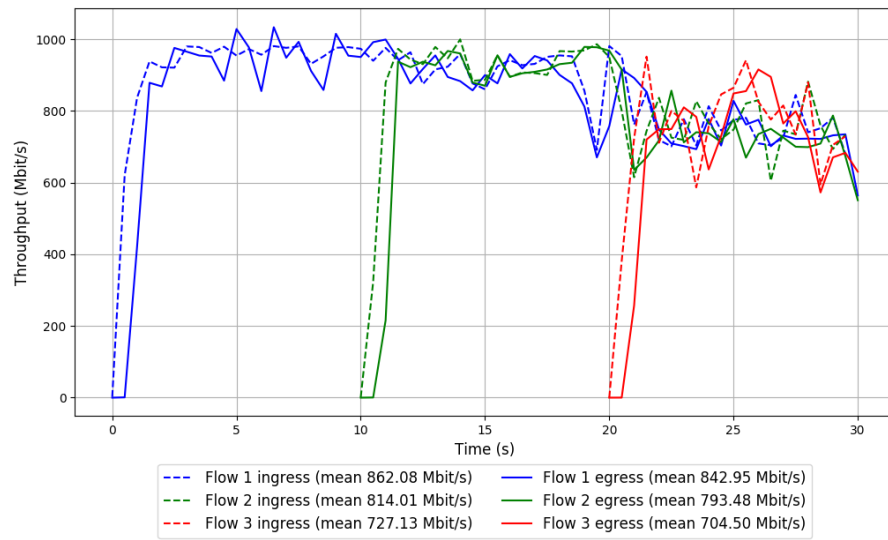


Run 2: Statistics of FillP

Start at: 2018-06-01 22:23:07  
End at: 2018-06-01 22:23:37  
Local clock offset: 0.315 ms  
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2018-06-02 02:56:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1601.34 Mbit/s  
95th percentile per-packet one-way delay: 130.937 ms  
Loss rate: 2.97%  
-- Flow 1:  
Average throughput: 842.95 Mbit/s  
95th percentile per-packet one-way delay: 128.331 ms  
Loss rate: 2.58%  
-- Flow 2:  
Average throughput: 793.48 Mbit/s  
95th percentile per-packet one-way delay: 127.281 ms  
Loss rate: 3.06%  
-- Flow 3:  
Average throughput: 704.50 Mbit/s  
95th percentile per-packet one-way delay: 190.693 ms  
Loss rate: 4.15%

## Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-06-01 22:46:06

End at: 2018-06-01 22:46:36

Local clock offset: 0.595 ms

Remote clock offset: 0.187 ms

# Below is generated by plot.py at 2018-06-02 02:56:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1565.04 Mbit/s

95th percentile per-packet one-way delay: 191.255 ms

Loss rate: 1.75%

-- Flow 1:

Average throughput: 836.46 Mbit/s

95th percentile per-packet one-way delay: 140.899 ms

Loss rate: 1.36%

-- Flow 2:

Average throughput: 736.63 Mbit/s

95th percentile per-packet one-way delay: 262.728 ms

Loss rate: 1.88%

-- Flow 3:

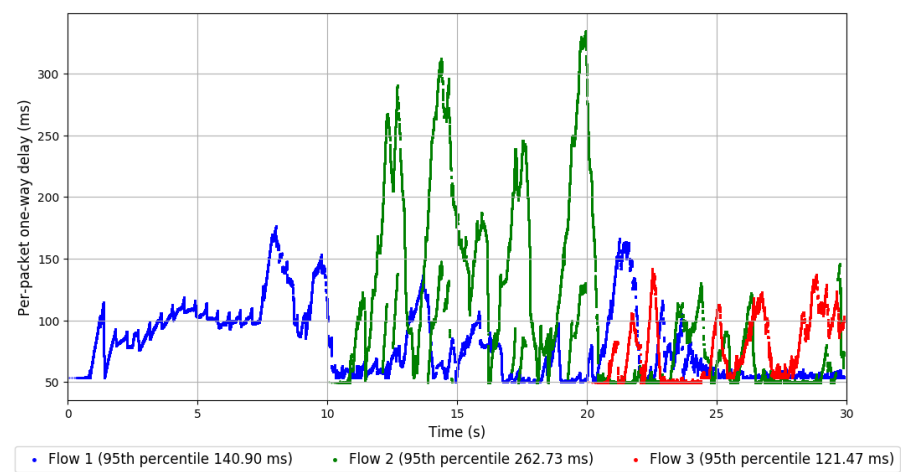
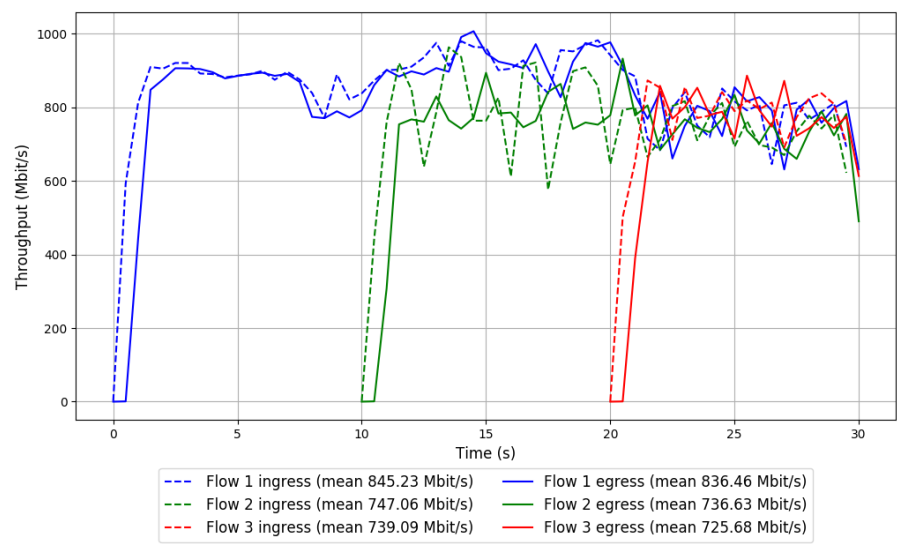
Average throughput: 725.68 Mbit/s

95th percentile per-packet one-way delay: 121.466 ms

Loss rate: 2.84%



Run 3: Report of FillP — Data Link

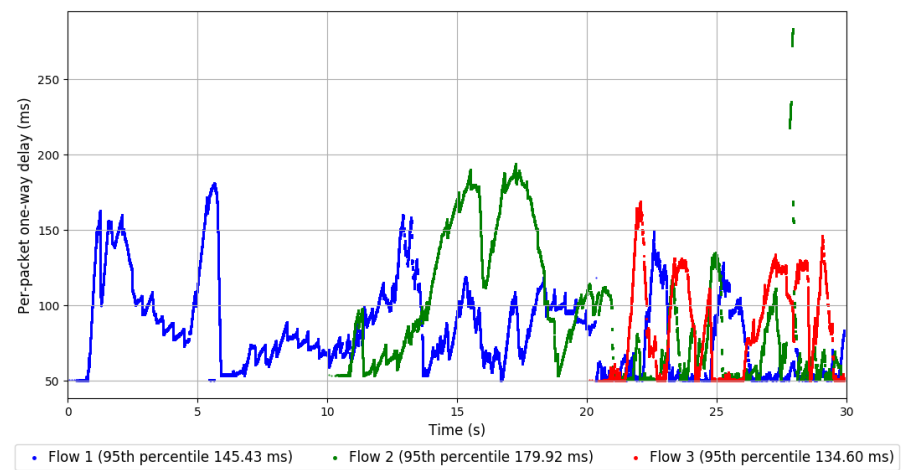
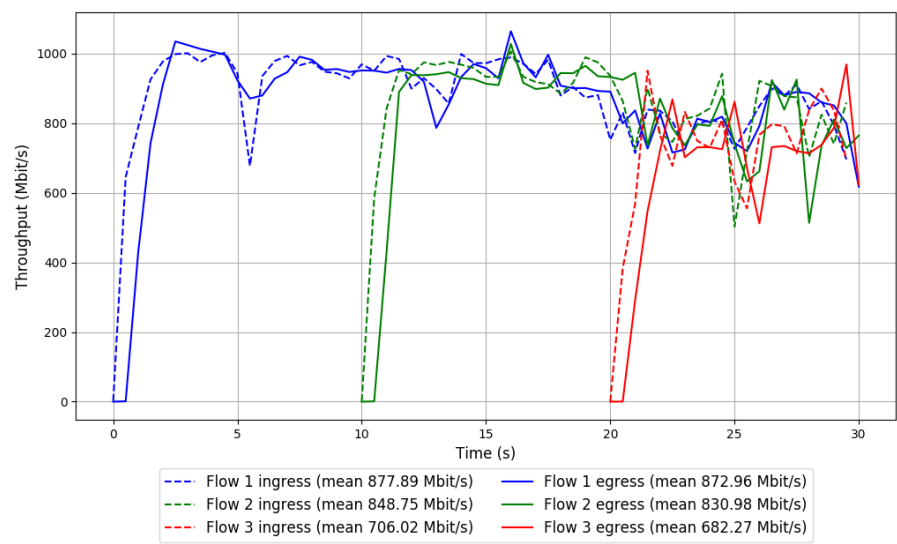


Run 4: Statistics of FillP

Start at: 2018-06-01 23:09:15  
End at: 2018-06-01 23:09:45  
Local clock offset: 0.619 ms  
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2018-06-02 02:59:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1649.19 Mbit/s  
95th percentile per-packet one-way delay: 164.210 ms  
Loss rate: 1.97%  
-- Flow 1:  
Average throughput: 872.96 Mbit/s  
95th percentile per-packet one-way delay: 145.433 ms  
Loss rate: 0.91%  
-- Flow 2:  
Average throughput: 830.98 Mbit/s  
95th percentile per-packet one-way delay: 179.916 ms  
Loss rate: 2.62%  
-- Flow 3:  
Average throughput: 682.27 Mbit/s  
95th percentile per-packet one-way delay: 134.598 ms  
Loss rate: 4.38%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-06-01 23:32:11

End at: 2018-06-01 23:32:41

Local clock offset: 0.231 ms

Remote clock offset: -0.18 ms

# Below is generated by plot.py at 2018-06-02 02:59:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1457.54 Mbit/s

95th percentile per-packet one-way delay: 205.898 ms

Loss rate: 3.88%

-- Flow 1:

Average throughput: 755.77 Mbit/s

95th percentile per-packet one-way delay: 226.210 ms

Loss rate: 2.97%

-- Flow 2:

Average throughput: 717.78 Mbit/s

95th percentile per-packet one-way delay: 153.547 ms

Loss rate: 5.20%

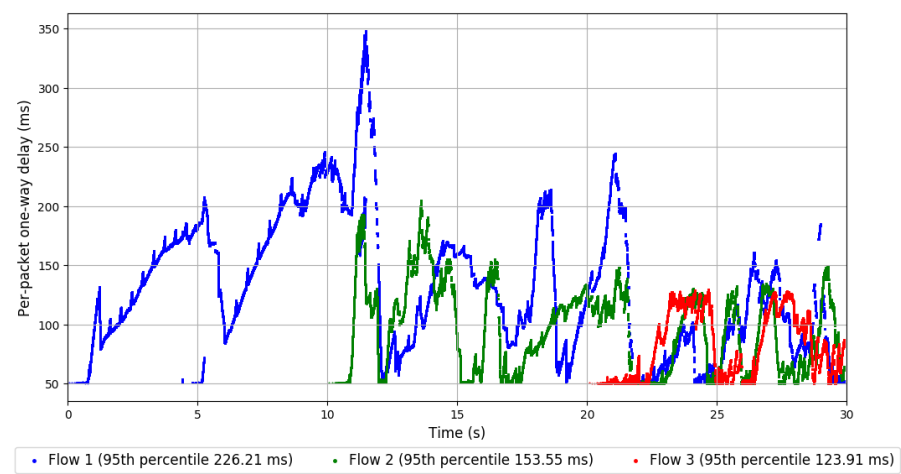
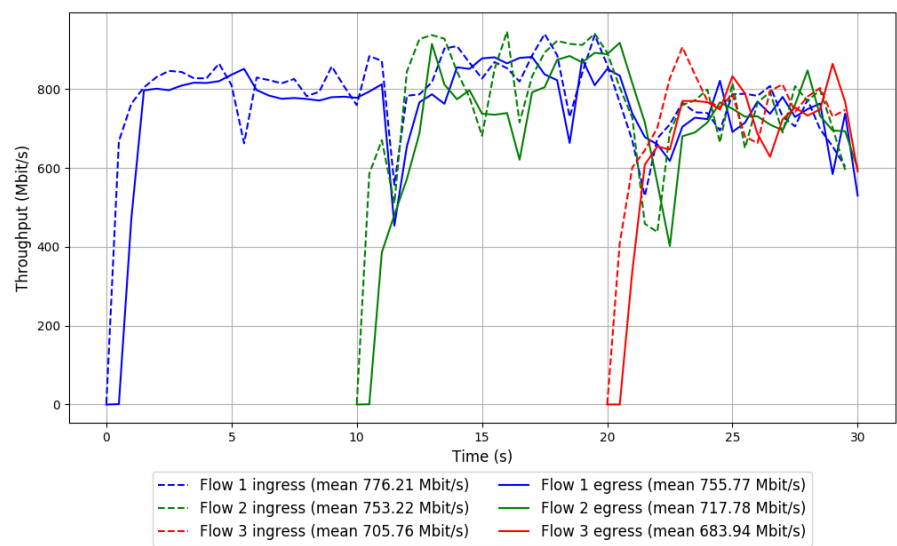
-- Flow 3:

Average throughput: 683.94 Mbit/s

95th percentile per-packet one-way delay: 123.910 ms

Loss rate: 4.11%

Run 5: Report of FillP — Data Link

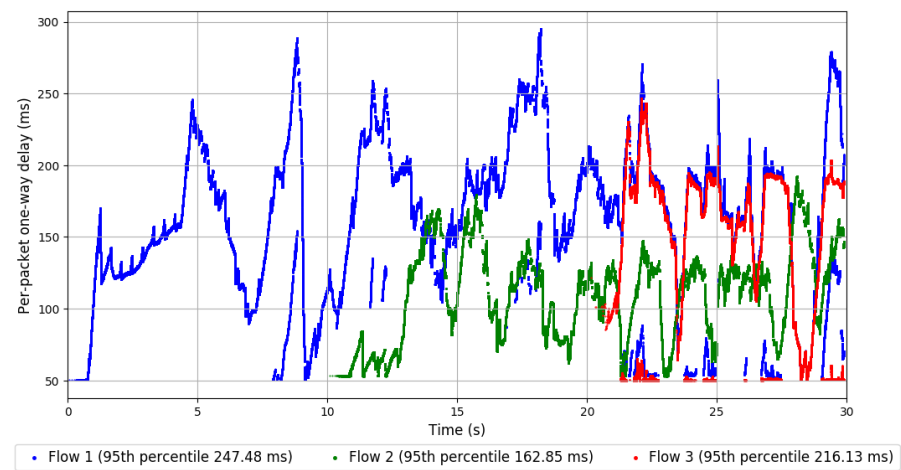
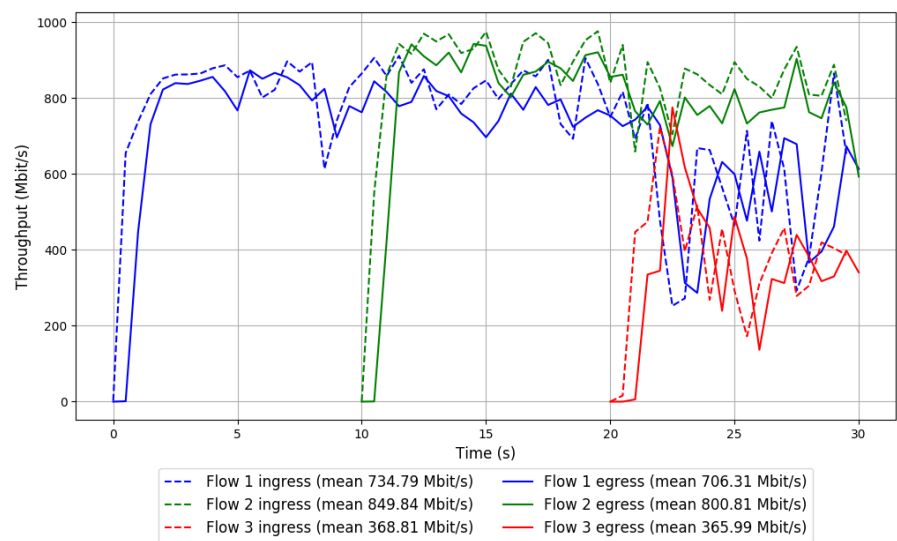


Run 6: Statistics of FillP

Start at: 2018-06-01 23:55:04  
End at: 2018-06-01 23:55:34  
Local clock offset: -0.093 ms  
Remote clock offset: -0.154 ms

# Below is generated by plot.py at 2018-06-02 02:59:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1357.61 Mbit/s  
95th percentile per-packet one-way delay: 231.679 ms  
Loss rate: 4.89%  
-- Flow 1:  
Average throughput: 706.31 Mbit/s  
95th percentile per-packet one-way delay: 247.477 ms  
Loss rate: 4.21%  
-- Flow 2:  
Average throughput: 800.81 Mbit/s  
95th percentile per-packet one-way delay: 162.850 ms  
Loss rate: 6.28%  
-- Flow 3:  
Average throughput: 365.99 Mbit/s  
95th percentile per-packet one-way delay: 216.134 ms  
Loss rate: 2.53%

Run 6: Report of FillP — Data Link



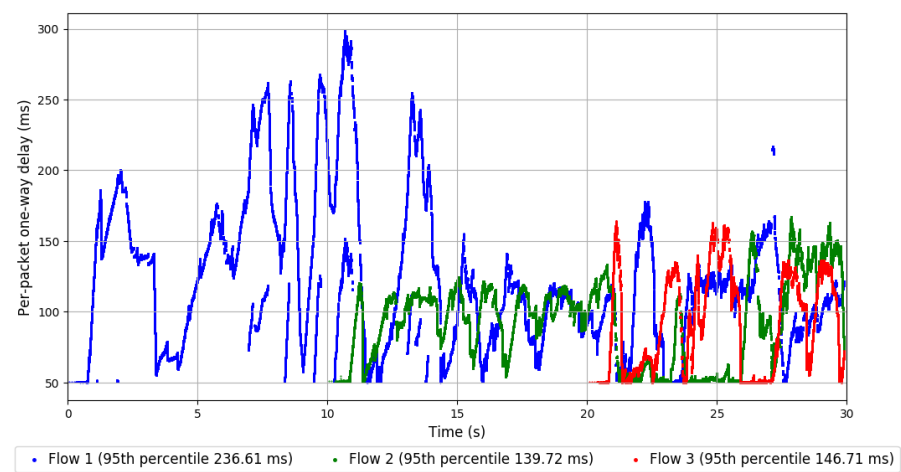
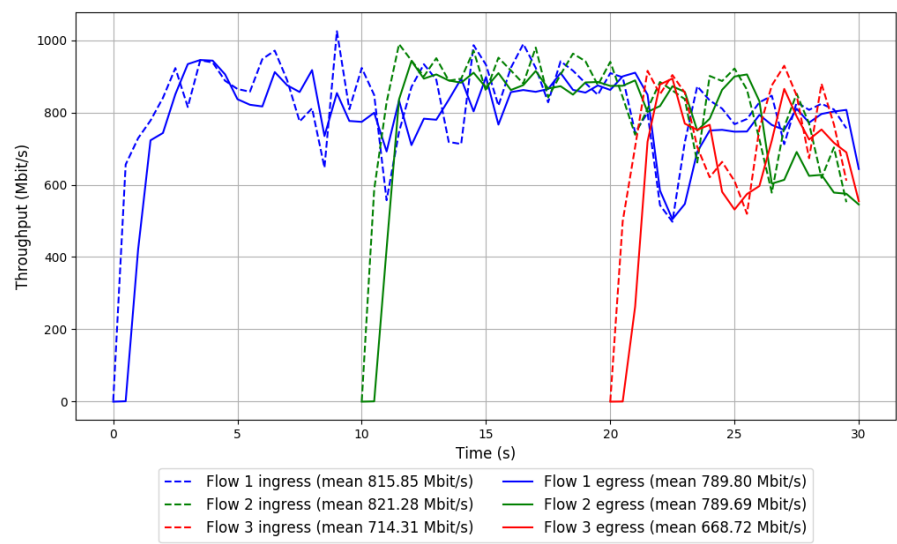
Run 7: Statistics of FillP

Start at: 2018-06-02 00:18:08  
End at: 2018-06-02 00:18:38  
Local clock offset: -0.009 ms  
Remote clock offset: -0.26 ms

# Below is generated by plot.py at 2018-06-02 02:59:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1534.72 Mbit/s  
95th percentile per-packet one-way delay: 197.171 ms  
Loss rate: 4.38%  
-- Flow 1:  
Average throughput: 789.80 Mbit/s  
95th percentile per-packet one-way delay: 236.606 ms  
Loss rate: 3.53%  
-- Flow 2:  
Average throughput: 789.69 Mbit/s  
95th percentile per-packet one-way delay: 139.719 ms  
Loss rate: 4.36%  
-- Flow 3:  
Average throughput: 668.72 Mbit/s  
95th percentile per-packet one-way delay: 146.708 ms  
Loss rate: 7.37%



Run 7: Report of FillP — Data Link

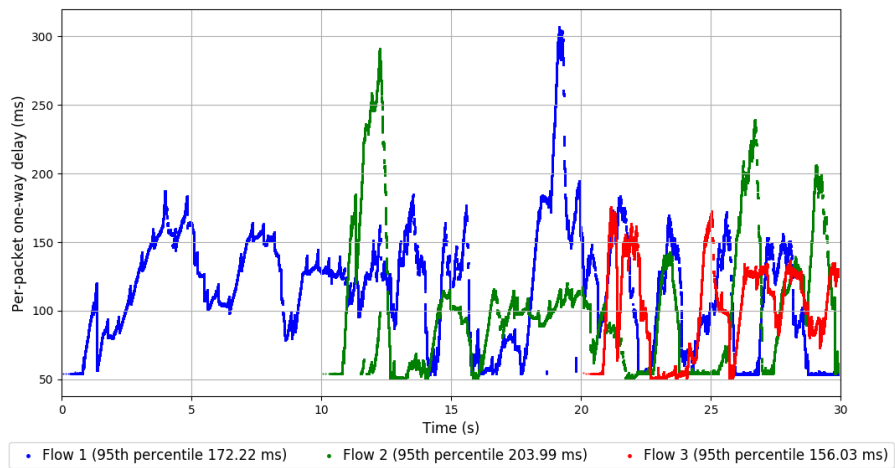
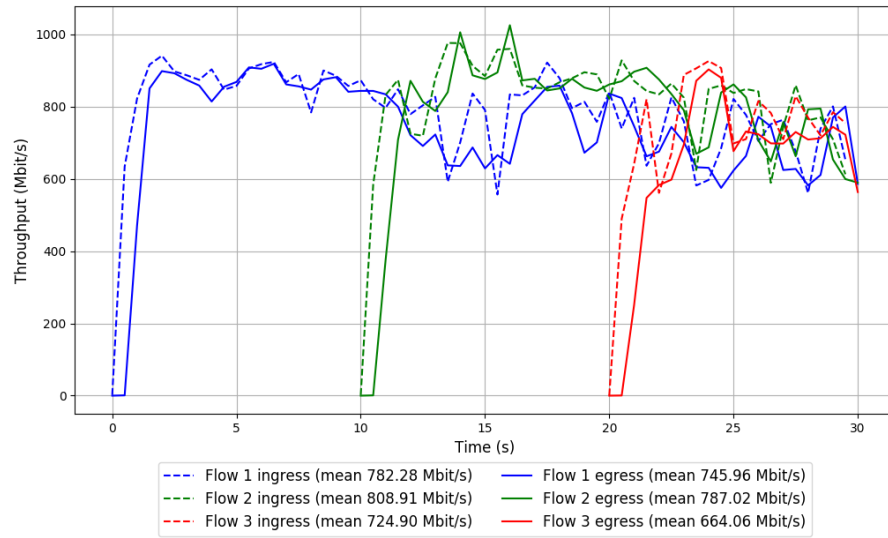


Run 8: Statistics of FillP

Start at: 2018-06-02 00:41:16  
End at: 2018-06-02 00:41:46  
Local clock offset: 0.139 ms  
Remote clock offset: -0.161 ms

# Below is generated by plot.py at 2018-06-02 02:59:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1487.54 Mbit/s  
95th percentile per-packet one-way delay: 176.170 ms  
Loss rate: 5.05%  
-- Flow 1:  
Average throughput: 745.96 Mbit/s  
95th percentile per-packet one-way delay: 172.218 ms  
Loss rate: 4.98%  
-- Flow 2:  
Average throughput: 787.02 Mbit/s  
95th percentile per-packet one-way delay: 203.991 ms  
Loss rate: 3.22%  
-- Flow 3:  
Average throughput: 664.06 Mbit/s  
95th percentile per-packet one-way delay: 156.033 ms  
Loss rate: 9.37%

# Run 8: Report of FillP — Data Link

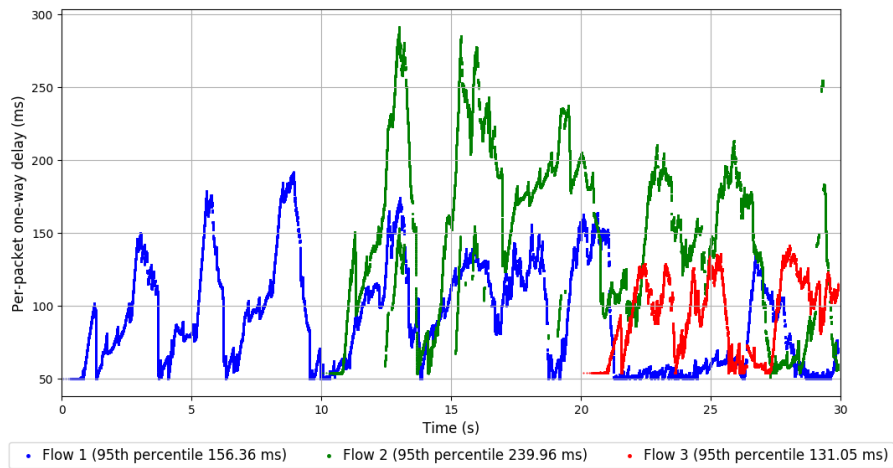
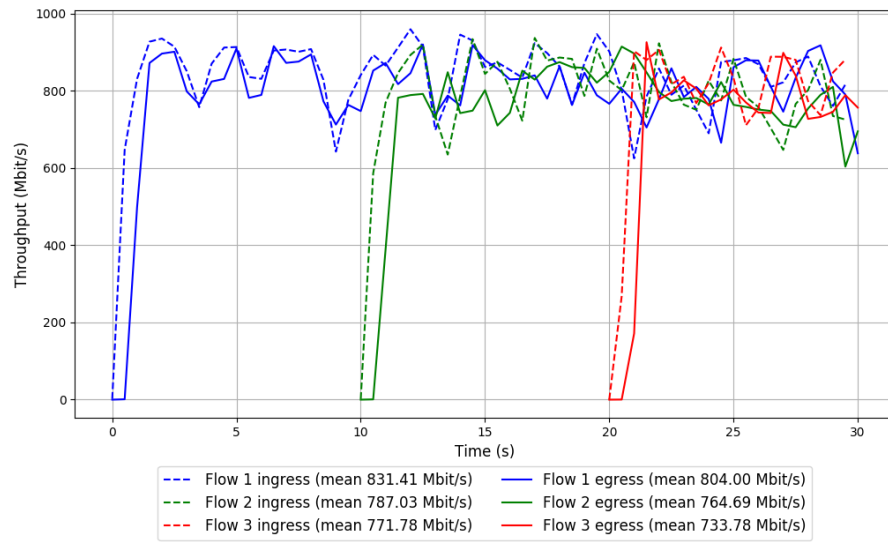


Run 9: Statistics of FillP

Start at: 2018-06-02 01:04:04  
End at: 2018-06-02 01:04:34  
Local clock offset: 0.081 ms  
Remote clock offset: -0.145 ms

# Below is generated by plot.py at 2018-06-02 03:27:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1553.08 Mbit/s  
95th percentile per-packet one-way delay: 202.586 ms  
Loss rate: 3.92%  
-- Flow 1:  
Average throughput: 804.00 Mbit/s  
95th percentile per-packet one-way delay: 156.358 ms  
Loss rate: 3.64%  
-- Flow 2:  
Average throughput: 764.69 Mbit/s  
95th percentile per-packet one-way delay: 239.963 ms  
Loss rate: 3.37%  
-- Flow 3:  
Average throughput: 733.78 Mbit/s  
95th percentile per-packet one-way delay: 131.054 ms  
Loss rate: 5.97%

### Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-06-02 01:27:01

End at: 2018-06-02 01:27:31

Local clock offset: 0.349 ms

Remote clock offset: 0.334 ms

# Below is generated by plot.py at 2018-06-02 03:27:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1457.22 Mbit/s

95th percentile per-packet one-way delay: 209.482 ms

Loss rate: 2.63%

-- Flow 1:

Average throughput: 829.07 Mbit/s

95th percentile per-packet one-way delay: 182.729 ms

Loss rate: 2.45%

-- Flow 2:

Average throughput: 636.86 Mbit/s

95th percentile per-packet one-way delay: 198.092 ms

Loss rate: 3.38%

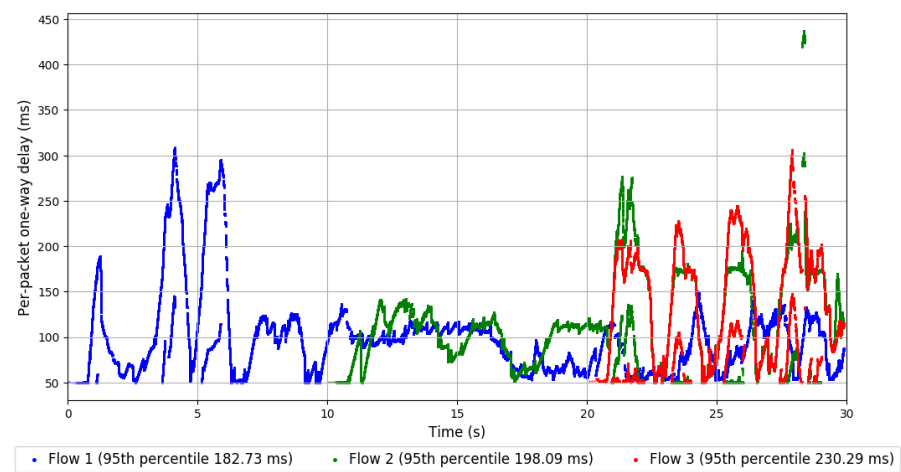
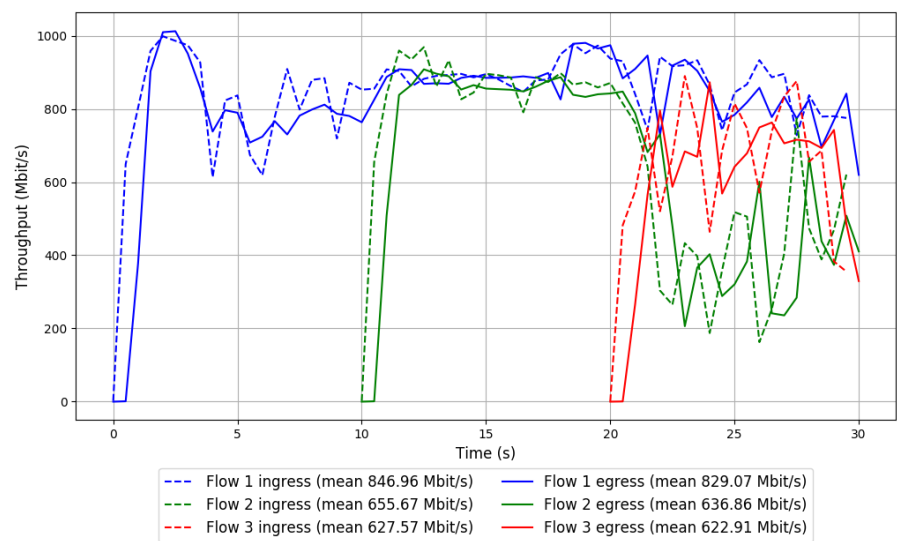
-- Flow 3:

Average throughput: 622.91 Mbit/s

95th percentile per-packet one-way delay: 230.286 ms

Loss rate: 1.78%

Run 10: Report of FillP — Data Link



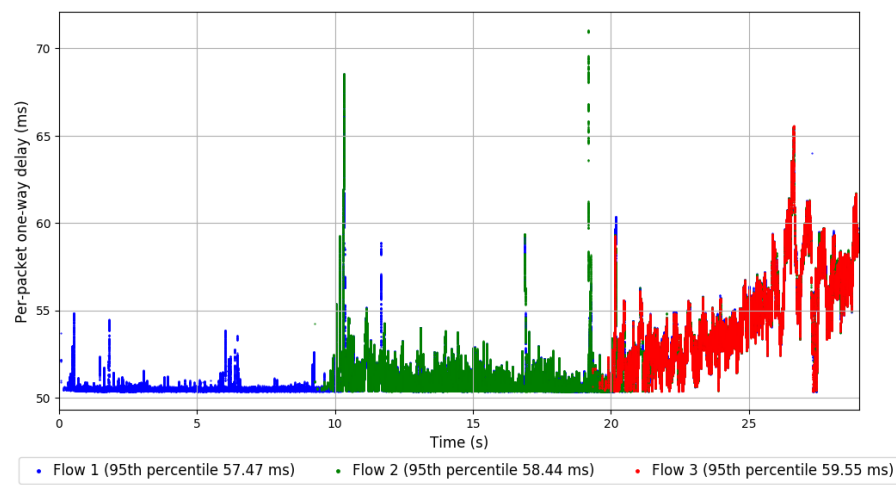
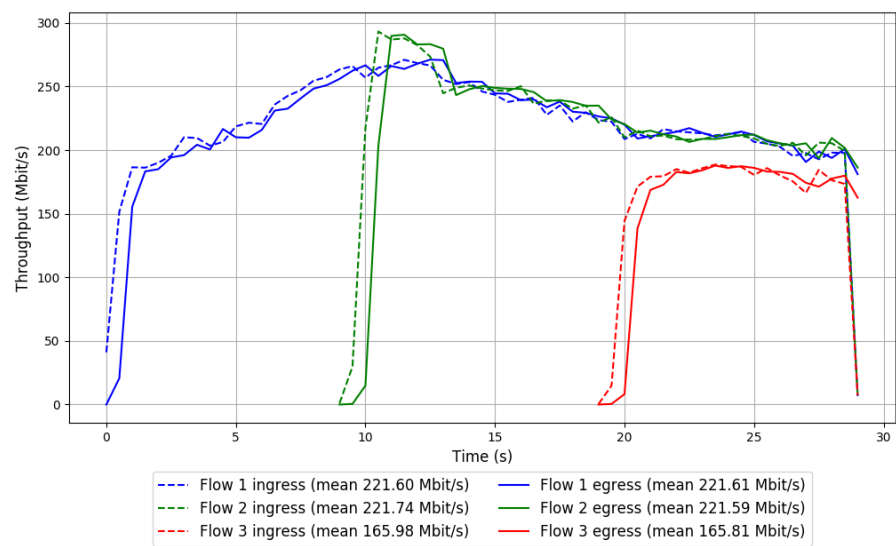
```
Run 1: Statistics of Indigo

Start at: 2018-06-01 22:03:32
End at: 2018-06-01 22:04:02
Local clock offset: 0.626 ms
Remote clock offset: -0.152 ms

# Below is generated by plot.py at 2018-06-02 03:27:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 427.86 Mbit/s
95th percentile per-packet one-way delay: 58.418 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 221.61 Mbit/s
95th percentile per-packet one-way delay: 57.468 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 221.59 Mbit/s
95th percentile per-packet one-way delay: 58.444 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 165.81 Mbit/s
95th percentile per-packet one-way delay: 59.551 ms
Loss rate: 1.16%
```



Run 1: Report of Indigo — Data Link

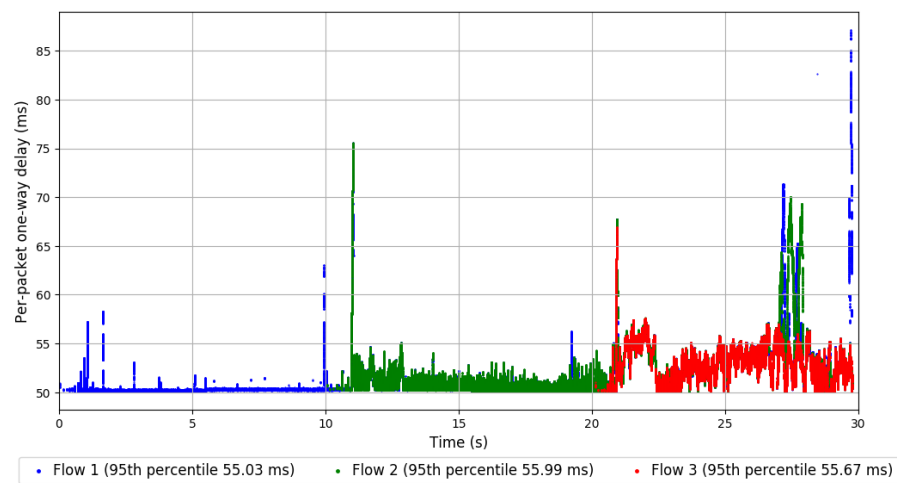
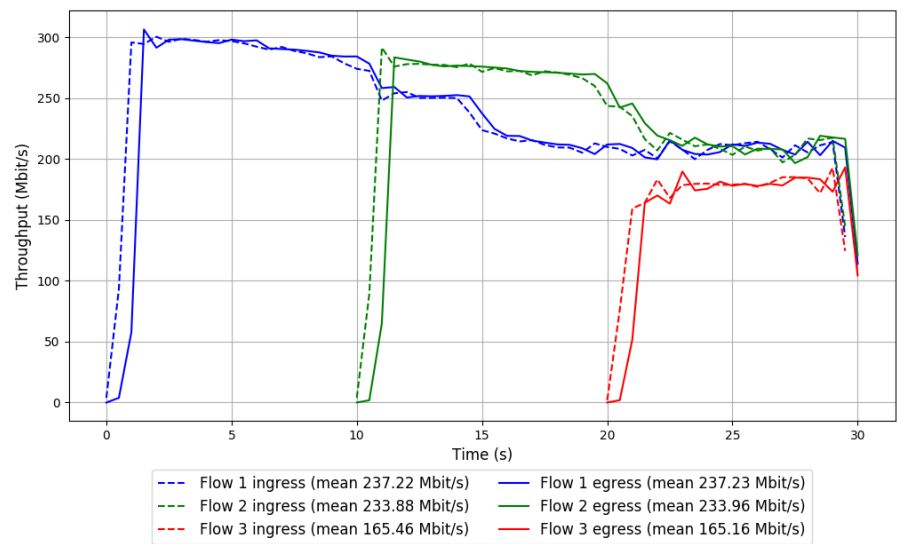


Run 2: Statistics of Indigo

Start at: 2018-06-01 22:26:45  
End at: 2018-06-01 22:27:15  
Local clock offset: 0.614 ms  
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2018-06-02 03:27:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 446.00 Mbit/s  
95th percentile per-packet one-way delay: 55.495 ms  
Loss rate: 0.50%  
-- Flow 1:  
Average throughput: 237.23 Mbit/s  
95th percentile per-packet one-way delay: 55.031 ms  
Loss rate: 0.34%  
-- Flow 2:  
Average throughput: 233.96 Mbit/s  
95th percentile per-packet one-way delay: 55.990 ms  
Loss rate: 0.49%  
-- Flow 3:  
Average throughput: 165.16 Mbit/s  
95th percentile per-packet one-way delay: 55.666 ms  
Loss rate: 1.24%

Run 2: Report of Indigo — Data Link

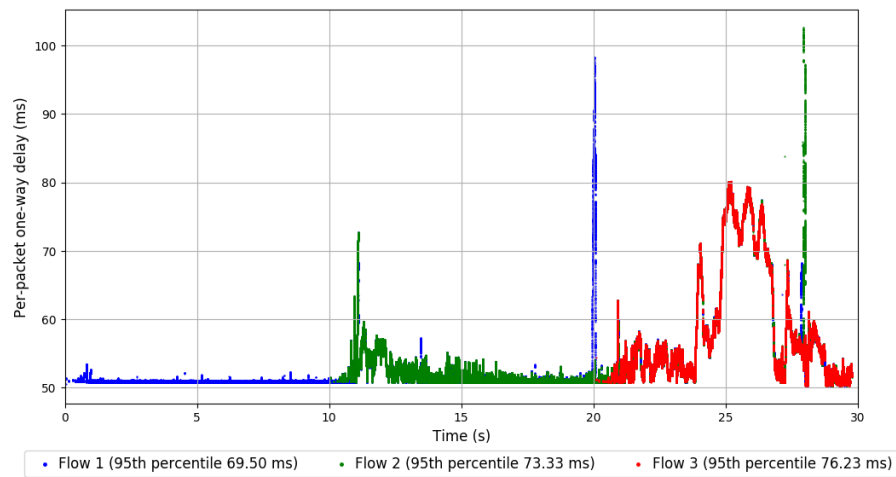
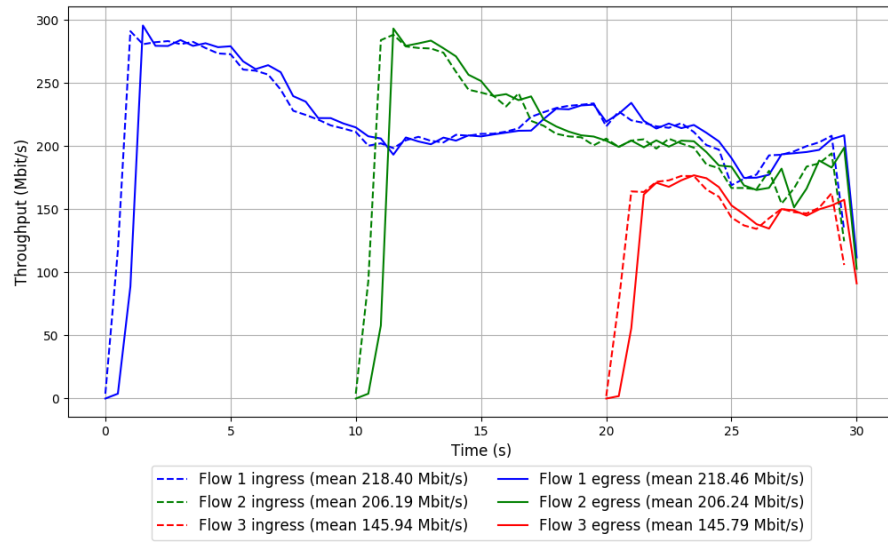


Run 3: Statistics of Indigo

Start at: 2018-06-01 22:49:43  
End at: 2018-06-01 22:50:13  
Local clock offset: 0.685 ms  
Remote clock offset: -0.291 ms

# Below is generated by plot.py at 2018-06-02 03:27:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 402.65 Mbit/s  
95th percentile per-packet one-way delay: 73.282 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 218.46 Mbit/s  
95th percentile per-packet one-way delay: 69.501 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 206.24 Mbit/s  
95th percentile per-packet one-way delay: 73.333 ms  
Loss rate: 0.50%  
-- Flow 3:  
Average throughput: 145.79 Mbit/s  
95th percentile per-packet one-way delay: 76.227 ms  
Loss rate: 1.18%

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

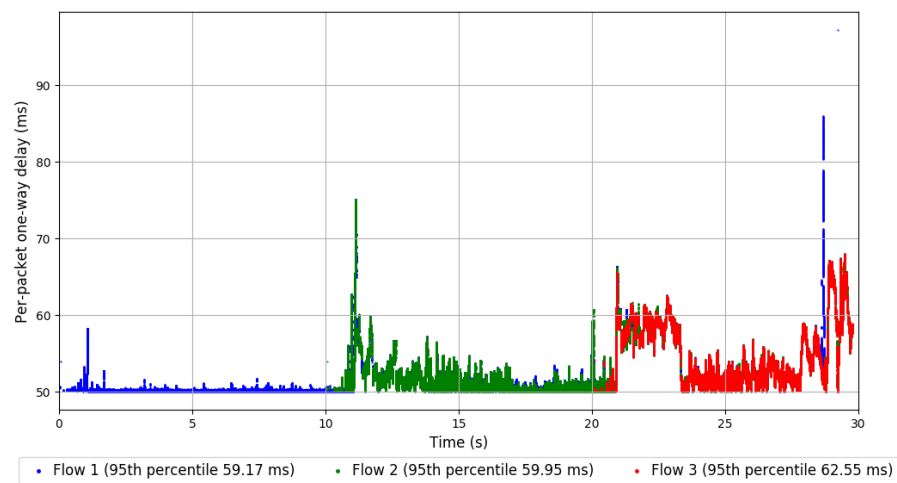
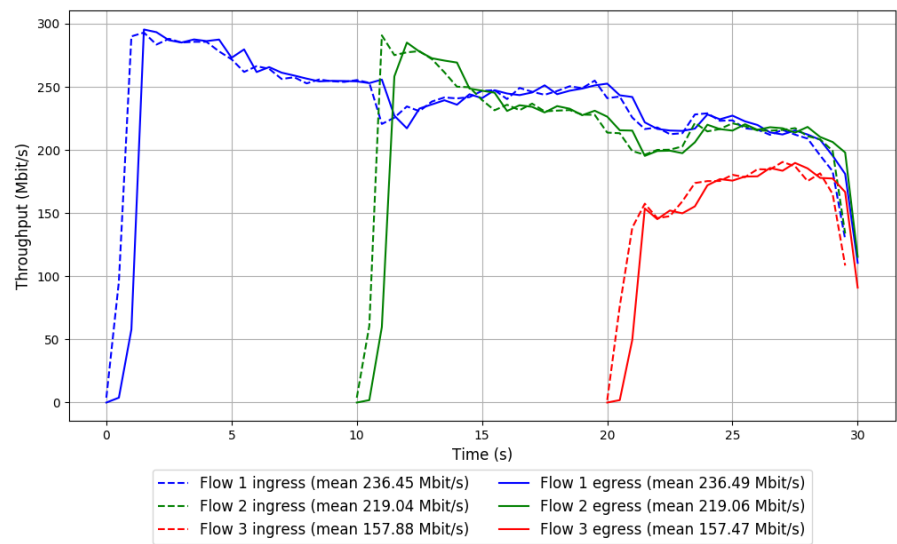


Run 4: Statistics of Indigo

Start at: 2018-06-01 23:12:54  
End at: 2018-06-01 23:13:24  
Local clock offset: 0.668 ms  
Remote clock offset: -0.146 ms

# Below is generated by plot.py at 2018-06-02 03:27:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 432.98 Mbit/s  
95th percentile per-packet one-way delay: 59.856 ms  
Loss rate: 0.50%  
-- Flow 1:  
Average throughput: 236.49 Mbit/s  
95th percentile per-packet one-way delay: 59.173 ms  
Loss rate: 0.32%  
-- Flow 2:  
Average throughput: 219.06 Mbit/s  
95th percentile per-packet one-way delay: 59.945 ms  
Loss rate: 0.52%  
-- Flow 3:  
Average throughput: 157.47 Mbit/s  
95th percentile per-packet one-way delay: 62.552 ms  
Loss rate: 1.30%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-06-01 23:35:44

End at: 2018-06-01 23:36:14

Local clock offset: 0.302 ms

Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2018-06-02 03:27:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 426.16 Mbit/s

95th percentile per-packet one-way delay: 55.838 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 229.55 Mbit/s

95th percentile per-packet one-way delay: 55.546 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 222.95 Mbit/s

95th percentile per-packet one-way delay: 56.021 ms

Loss rate: 0.52%

-- Flow 3:

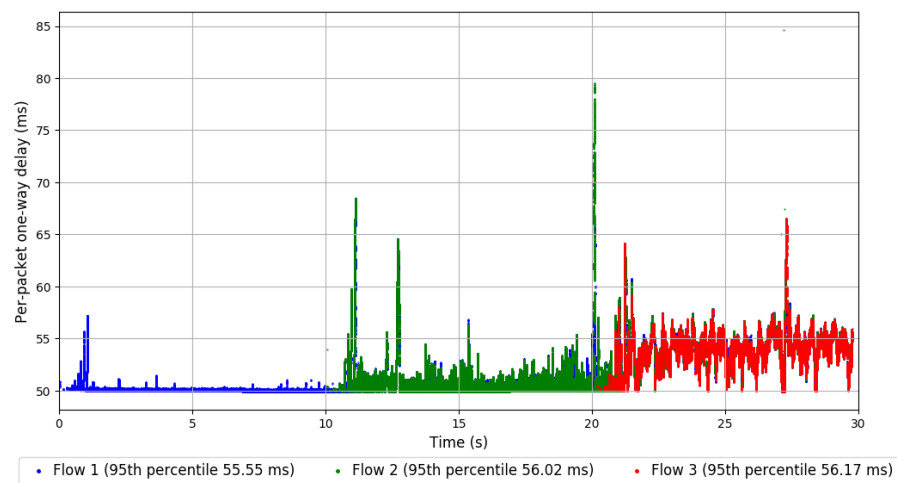
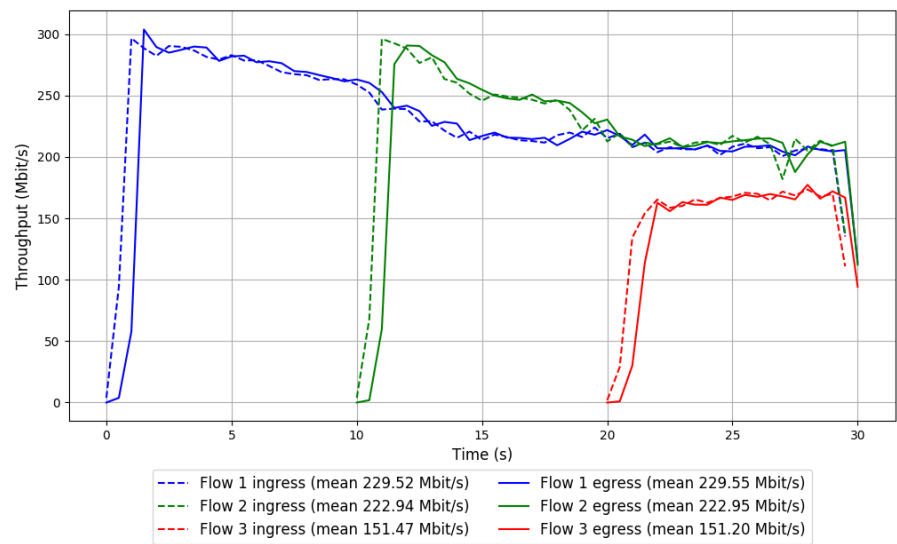
Average throughput: 151.20 Mbit/s

95th percentile per-packet one-way delay: 56.175 ms

Loss rate: 1.26%



Run 5: Report of Indigo — Data Link

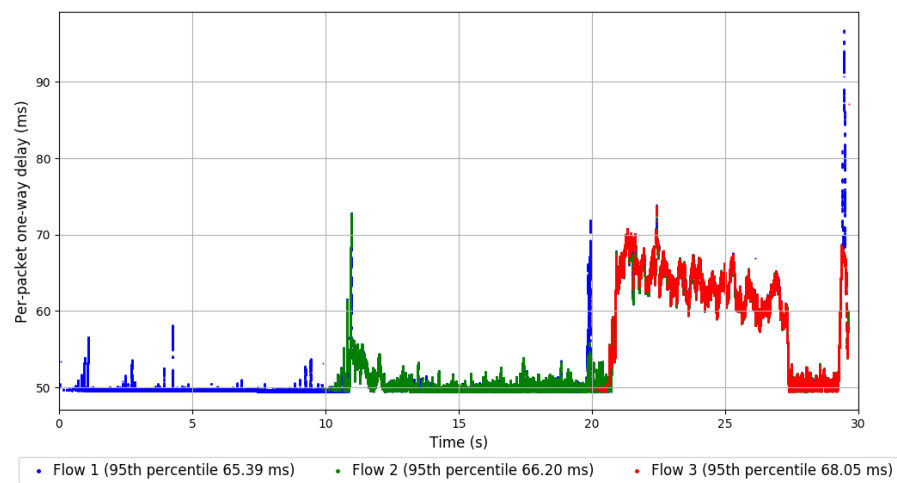
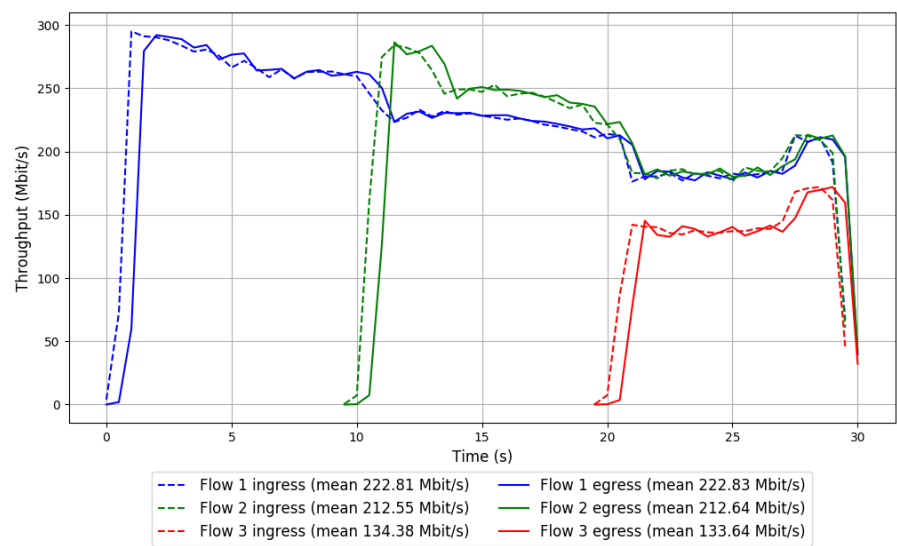


Run 6: Statistics of Indigo

Start at: 2018-06-01 23:58:33  
End at: 2018-06-01 23:59:03  
Local clock offset: -0.286 ms  
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2018-06-02 03:27:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 407.99 Mbit/s  
95th percentile per-packet one-way delay: 66.179 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 222.83 Mbit/s  
95th percentile per-packet one-way delay: 65.395 ms  
Loss rate: 0.34%  
-- Flow 2:  
Average throughput: 212.64 Mbit/s  
95th percentile per-packet one-way delay: 66.196 ms  
Loss rate: 0.48%  
-- Flow 3:  
Average throughput: 133.64 Mbit/s  
95th percentile per-packet one-way delay: 68.046 ms  
Loss rate: 1.27%

Run 6: Report of Indigo — Data Link

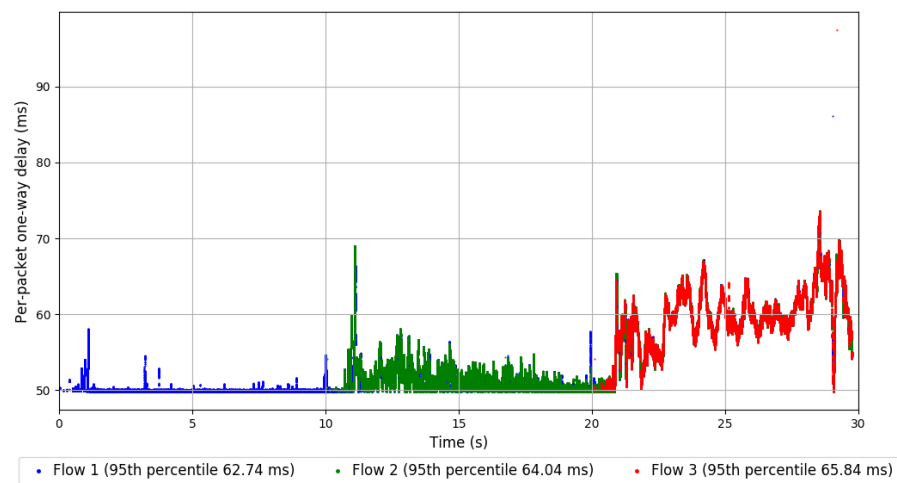
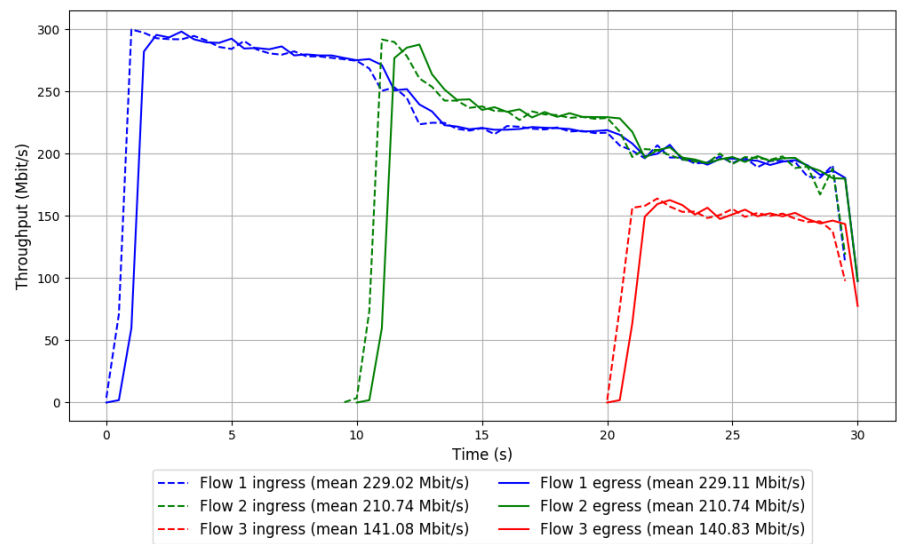


Run 7: Statistics of Indigo

Start at: 2018-06-02 00:21:43  
End at: 2018-06-02 00:22:13  
Local clock offset: -0.119 ms  
Remote clock offset: -0.136 ms

# Below is generated by plot.py at 2018-06-02 03:27:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 414.70 Mbit/s  
95th percentile per-packet one-way delay: 63.754 ms  
Loss rate: 0.48%  
-- Flow 1:  
Average throughput: 229.11 Mbit/s  
95th percentile per-packet one-way delay: 62.737 ms  
Loss rate: 0.31%  
-- Flow 2:  
Average throughput: 210.74 Mbit/s  
95th percentile per-packet one-way delay: 64.037 ms  
Loss rate: 0.50%  
-- Flow 3:  
Average throughput: 140.83 Mbit/s  
95th percentile per-packet one-way delay: 65.841 ms  
Loss rate: 1.21%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-06-02 00:44:48

End at: 2018-06-02 00:45:18

Local clock offset: 0.418 ms

Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2018-06-02 03:27:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 399.14 Mbit/s

95th percentile per-packet one-way delay: 62.145 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 221.18 Mbit/s

95th percentile per-packet one-way delay: 61.043 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 198.05 Mbit/s

95th percentile per-packet one-way delay: 62.425 ms

Loss rate: 0.58%

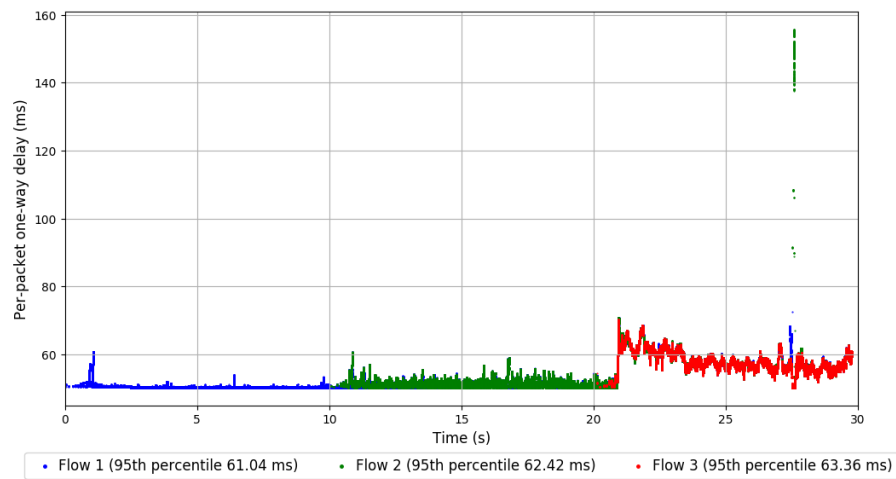
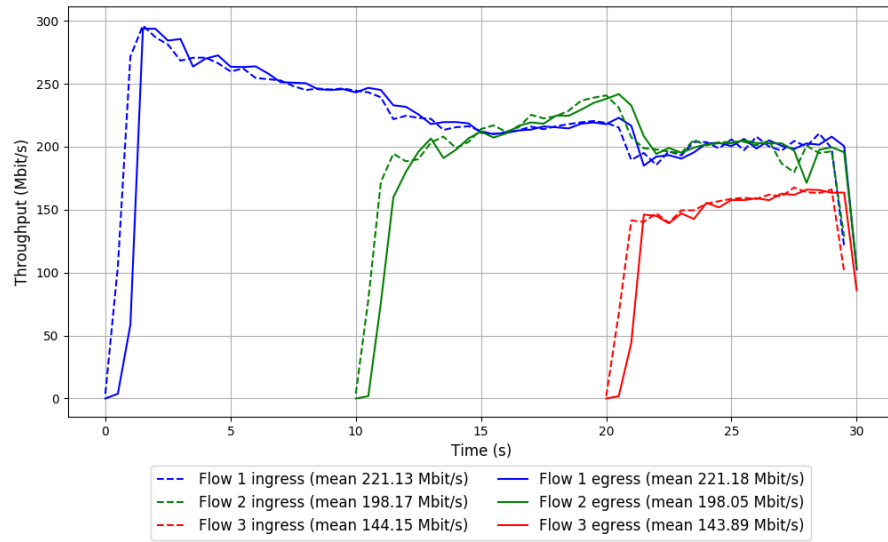
-- Flow 3:

Average throughput: 143.89 Mbit/s

95th percentile per-packet one-way delay: 63.360 ms

Loss rate: 1.23%

## Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-06-02 01:07:38

End at: 2018-06-02 01:08:08

Local clock offset: -0.002 ms

Remote clock offset: 0.124 ms

# Below is generated by plot.py at 2018-06-02 03:27:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 380.89 Mbit/s

95th percentile per-packet one-way delay: 59.578 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 215.61 Mbit/s

95th percentile per-packet one-way delay: 58.303 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 170.96 Mbit/s

95th percentile per-packet one-way delay: 59.940 ms

Loss rate: 0.55%

-- Flow 3:

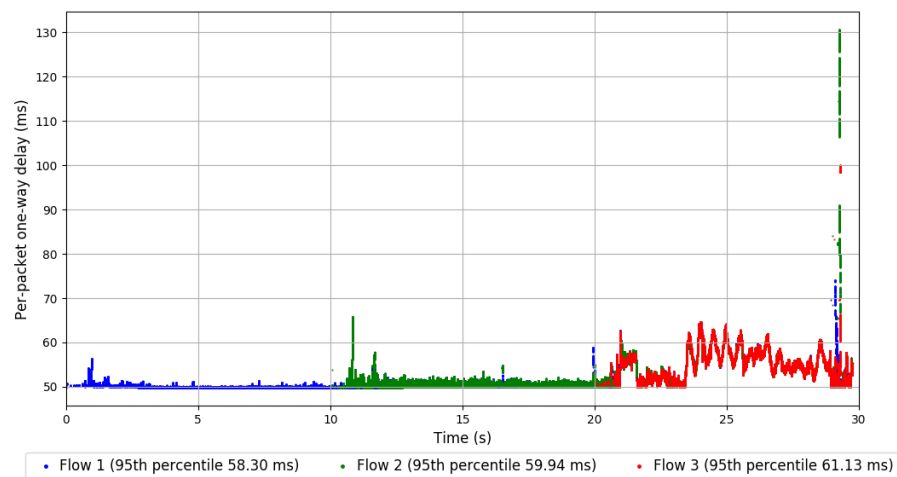
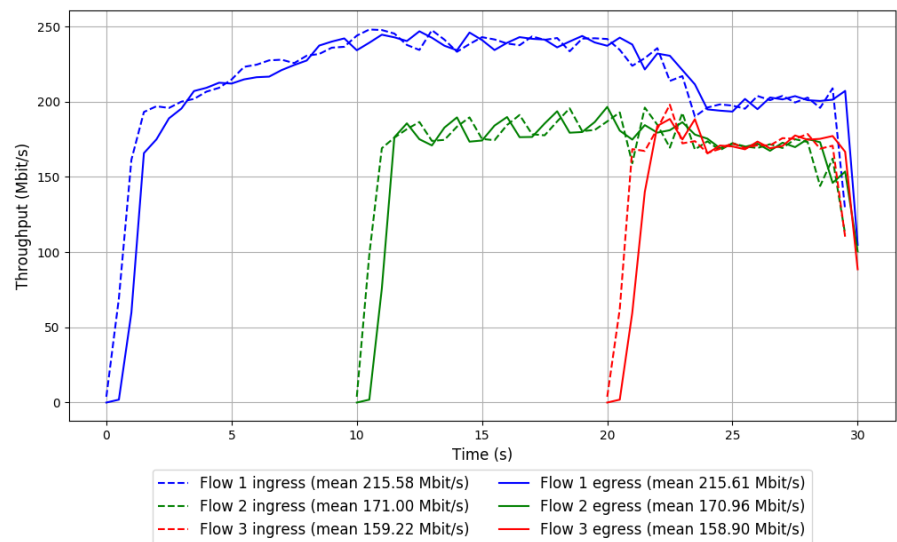
Average throughput: 158.90 Mbit/s

95th percentile per-packet one-way delay: 61.133 ms

Loss rate: 1.27%



Run 9: Report of Indigo — Data Link

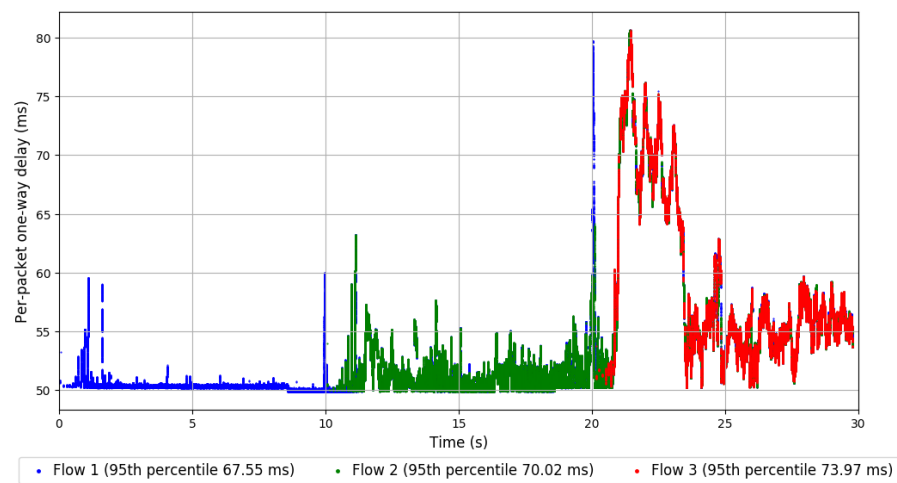
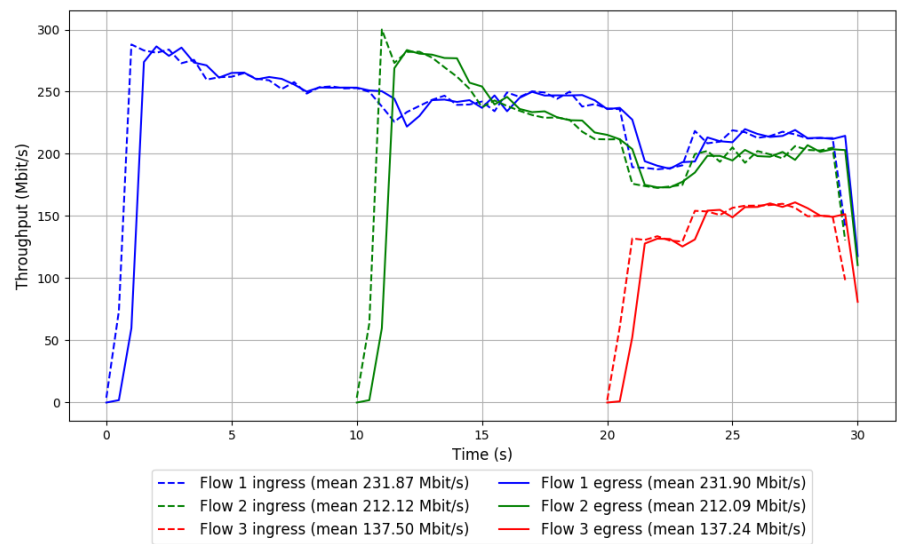


Run 10: Statistics of Indigo

Start at: 2018-06-02 01:30:32  
End at: 2018-06-02 01:31:02  
Local clock offset: 0.127 ms  
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2018-06-02 03:27:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 416.92 Mbit/s  
95th percentile per-packet one-way delay: 70.023 ms  
Loss rate: 0.50%  
-- Flow 1:  
Average throughput: 231.90 Mbit/s  
95th percentile per-packet one-way delay: 67.554 ms  
Loss rate: 0.34%  
-- Flow 2:  
Average throughput: 212.09 Mbit/s  
95th percentile per-packet one-way delay: 70.023 ms  
Loss rate: 0.52%  
-- Flow 3:  
Average throughput: 137.24 Mbit/s  
95th percentile per-packet one-way delay: 73.975 ms  
Loss rate: 1.25%

Run 10: Report of Indigo — Data Link

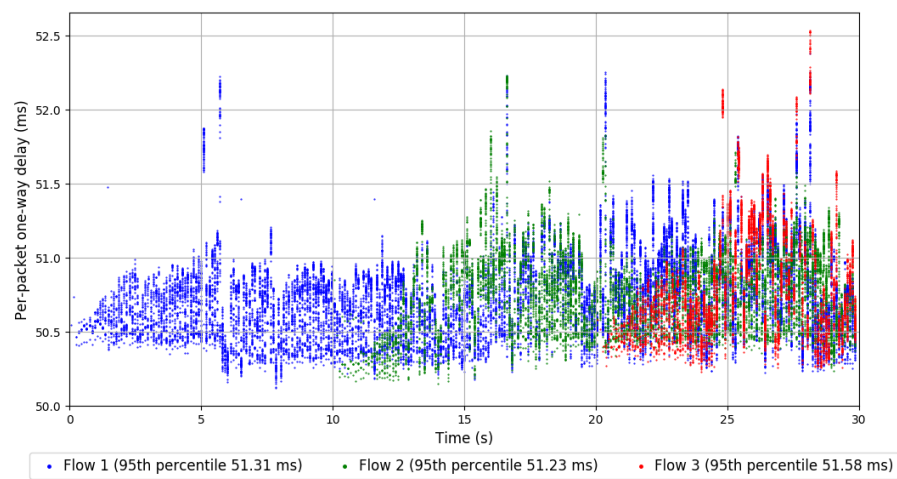
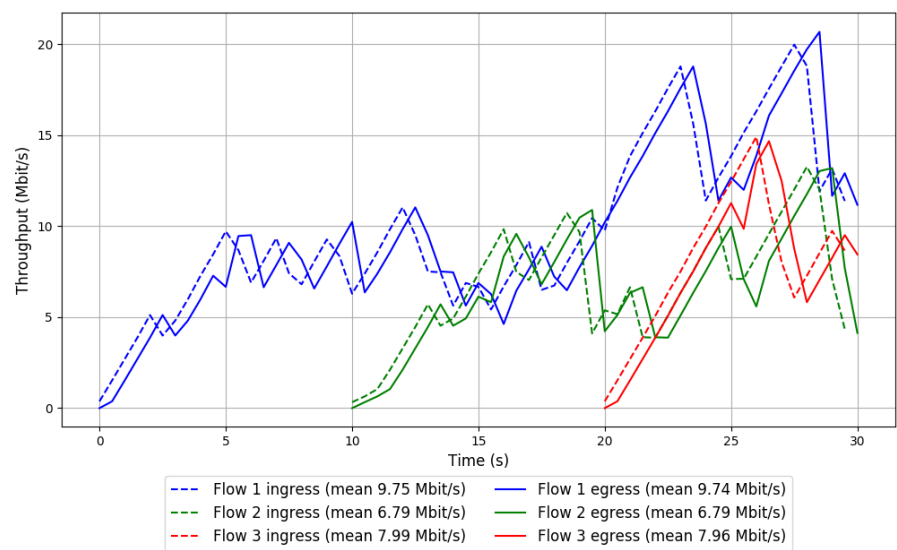


```
Run 1: Statistics of LEDBAT

Start at: 2018-06-01 22:13:05
End at: 2018-06-01 22:13:35
Local clock offset: 0.407 ms
Remote clock offset: -0.275 ms

# Below is generated by plot.py at 2018-06-02 03:27:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.86 Mbit/s
95th percentile per-packet one-way delay: 51.339 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 9.74 Mbit/s
95th percentile per-packet one-way delay: 51.309 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 6.79 Mbit/s
95th percentile per-packet one-way delay: 51.230 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 7.96 Mbit/s
95th percentile per-packet one-way delay: 51.578 ms
Loss rate: 1.43%
```

Run 1: Report of LEDBAT — Data Link

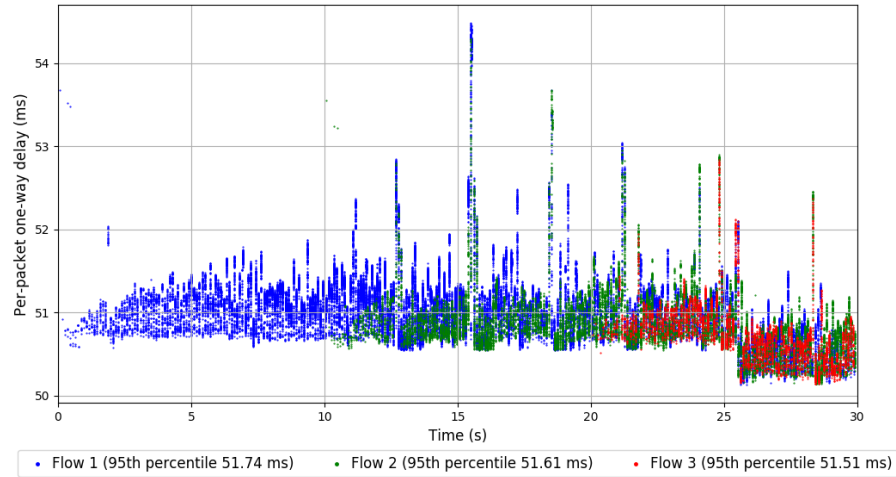
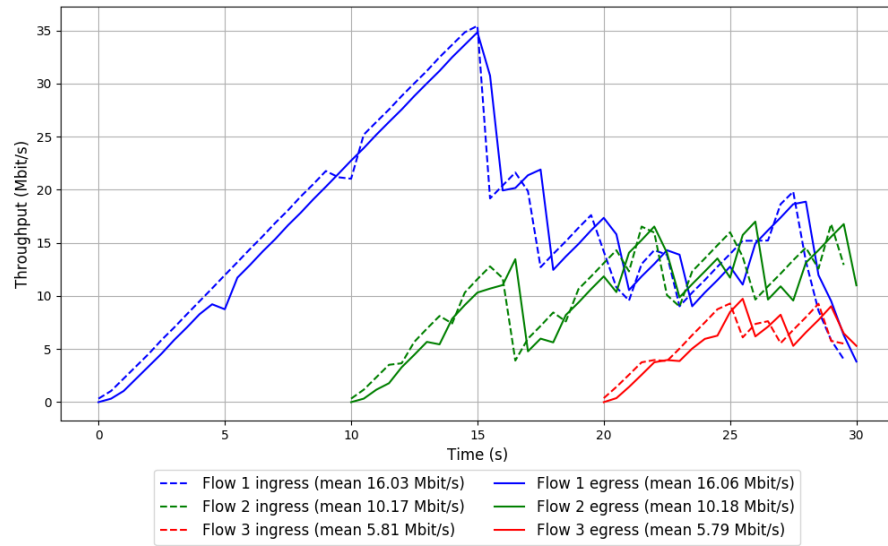


Run 2: Statistics of LEDBAT

Start at: 2018-06-01 22:36:15  
End at: 2018-06-01 22:36:45  
Local clock offset: 0.687 ms  
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2018-06-02 03:27:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 24.71 Mbit/s  
95th percentile per-packet one-way delay: 51.713 ms  
Loss rate: 0.30%  
-- Flow 1:  
Average throughput: 16.06 Mbit/s  
95th percentile per-packet one-way delay: 51.741 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 10.18 Mbit/s  
95th percentile per-packet one-way delay: 51.613 ms  
Loss rate: 0.47%  
-- Flow 3:  
Average throughput: 5.79 Mbit/s  
95th percentile per-packet one-way delay: 51.507 ms  
Loss rate: 1.27%

## Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-06-01 22:59:20

End at: 2018-06-01 22:59:50

Local clock offset: 0.54 ms

Remote clock offset: 0.037 ms

# Below is generated by plot.py at 2018-06-02 03:27:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 22.16 Mbit/s

95th percentile per-packet one-way delay: 51.191 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 12.65 Mbit/s

95th percentile per-packet one-way delay: 51.158 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 9.87 Mbit/s

95th percentile per-packet one-way delay: 51.218 ms

Loss rate: 1.23%

-- Flow 3:

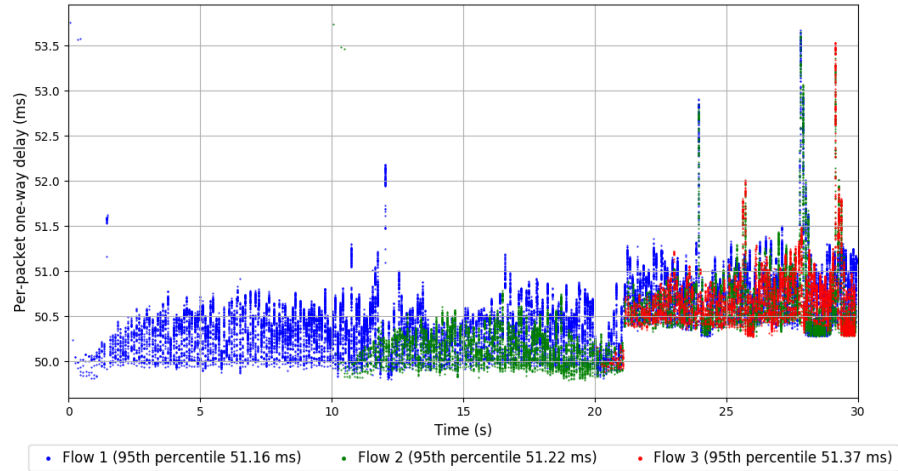
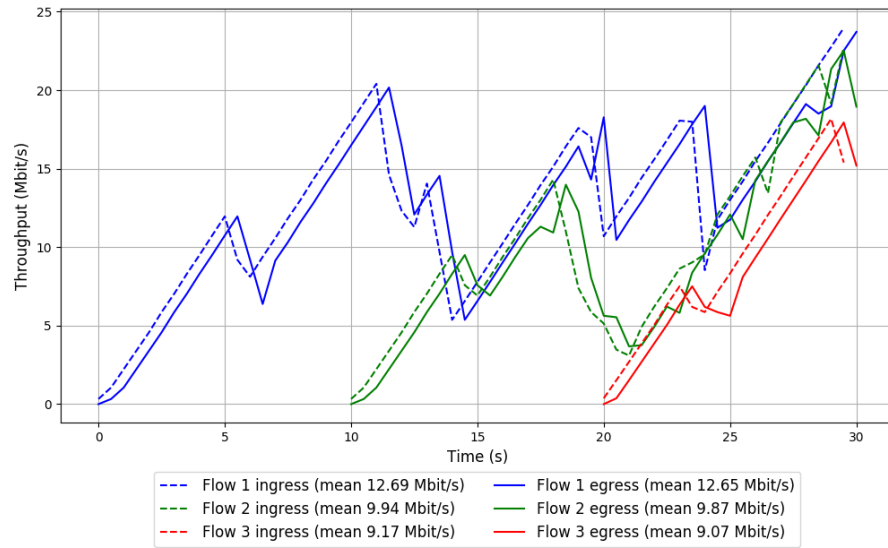
Average throughput: 9.07 Mbit/s

95th percentile per-packet one-way delay: 51.366 ms

Loss rate: 2.16%



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

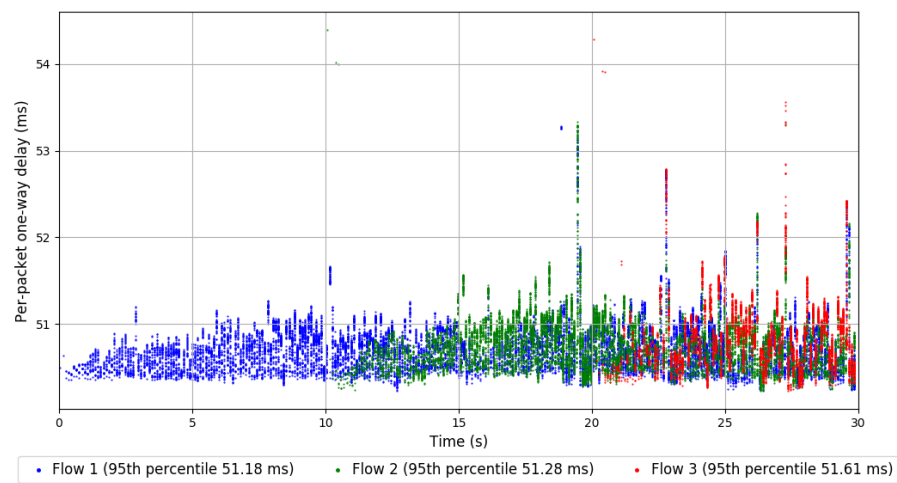
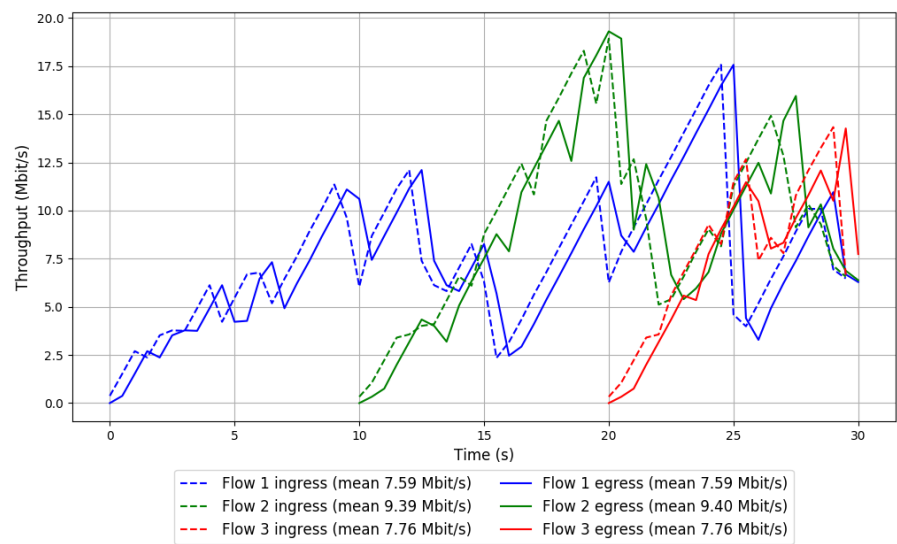


Run 4: Statistics of LEDBAT

Start at: 2018-06-01 23:22:28  
End at: 2018-06-01 23:22:58  
Local clock offset: 0.619 ms  
Remote clock offset: -0.355 ms

# Below is generated by plot.py at 2018-06-02 03:27:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 16.37 Mbit/s  
95th percentile per-packet one-way delay: 51.304 ms  
Loss rate: 0.52%  
-- Flow 1:  
Average throughput: 7.59 Mbit/s  
95th percentile per-packet one-way delay: 51.176 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 9.40 Mbit/s  
95th percentile per-packet one-way delay: 51.284 ms  
Loss rate: 0.46%  
-- Flow 3:  
Average throughput: 7.76 Mbit/s  
95th percentile per-packet one-way delay: 51.610 ms  
Loss rate: 1.13%

Run 4: Report of LEDBAT — Data Link

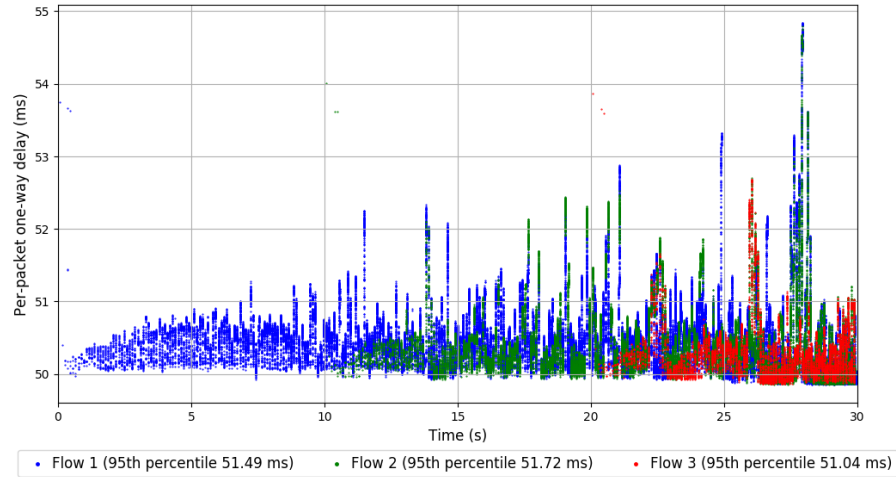
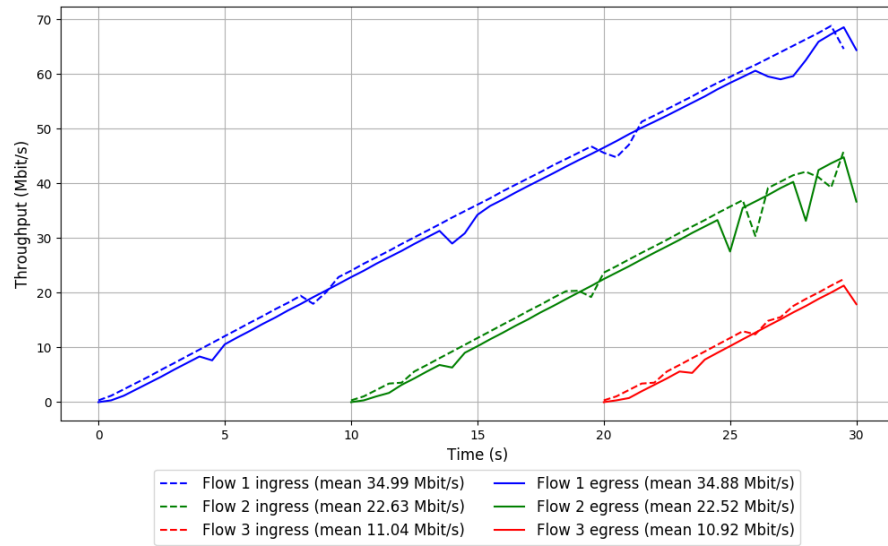


Run 5: Statistics of LEDBAT

Start at: 2018-06-01 23:45:16  
End at: 2018-06-01 23:45:46  
Local clock offset: -0.0 ms  
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2018-06-02 03:27:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 53.40 Mbit/s  
95th percentile per-packet one-way delay: 51.577 ms  
Loss rate: 0.87%  
-- Flow 1:  
Average throughput: 34.88 Mbit/s  
95th percentile per-packet one-way delay: 51.494 ms  
Loss rate: 0.67%  
-- Flow 2:  
Average throughput: 22.52 Mbit/s  
95th percentile per-packet one-way delay: 51.715 ms  
Loss rate: 1.03%  
-- Flow 3:  
Average throughput: 10.92 Mbit/s  
95th percentile per-packet one-way delay: 51.041 ms  
Loss rate: 2.10%

## Run 5: Report of LEDBAT — Data Link

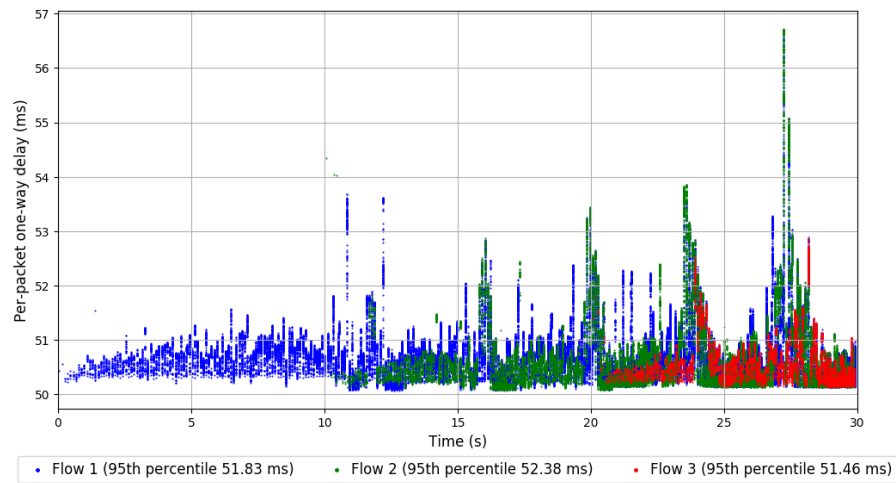
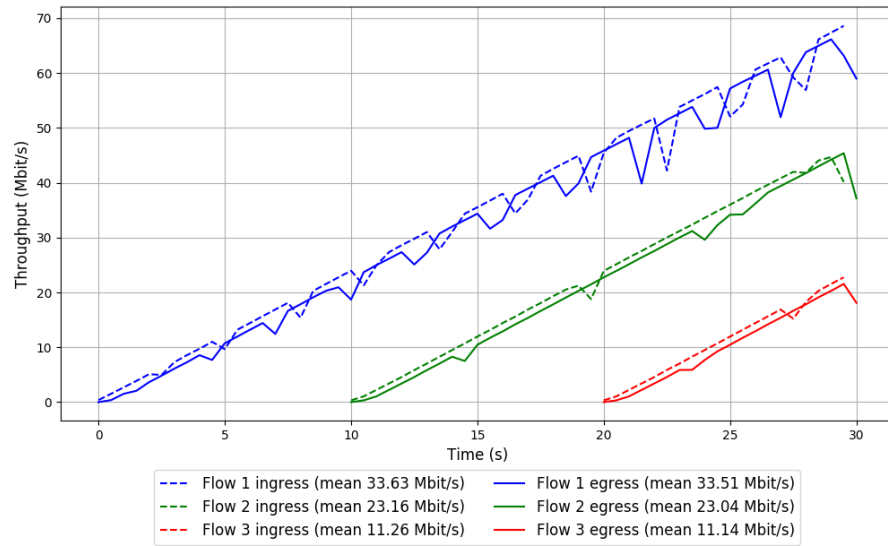


Run 6: Statistics of LEDBAT

Start at: 2018-06-02 00:08:10  
End at: 2018-06-02 00:08:40  
Local clock offset: 0.313 ms  
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2018-06-02 03:27:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 52.44 Mbit/s  
95th percentile per-packet one-way delay: 51.988 ms  
Loss rate: 0.88%  
-- Flow 1:  
Average throughput: 33.51 Mbit/s  
95th percentile per-packet one-way delay: 51.827 ms  
Loss rate: 0.69%  
-- Flow 2:  
Average throughput: 23.04 Mbit/s  
95th percentile per-packet one-way delay: 52.385 ms  
Loss rate: 1.02%  
-- Flow 3:  
Average throughput: 11.14 Mbit/s  
95th percentile per-packet one-way delay: 51.464 ms  
Loss rate: 2.08%

# Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-06-02 00:31:25

End at: 2018-06-02 00:31:55

Local clock offset: -0.05 ms

Remote clock offset: 0.024 ms

# Below is generated by plot.py at 2018-06-02 03:27:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 51.39 Mbit/s

95th percentile per-packet one-way delay: 51.274 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 33.02 Mbit/s

95th percentile per-packet one-way delay: 51.227 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 22.10 Mbit/s

95th percentile per-packet one-way delay: 51.233 ms

Loss rate: 1.04%

-- Flow 3:

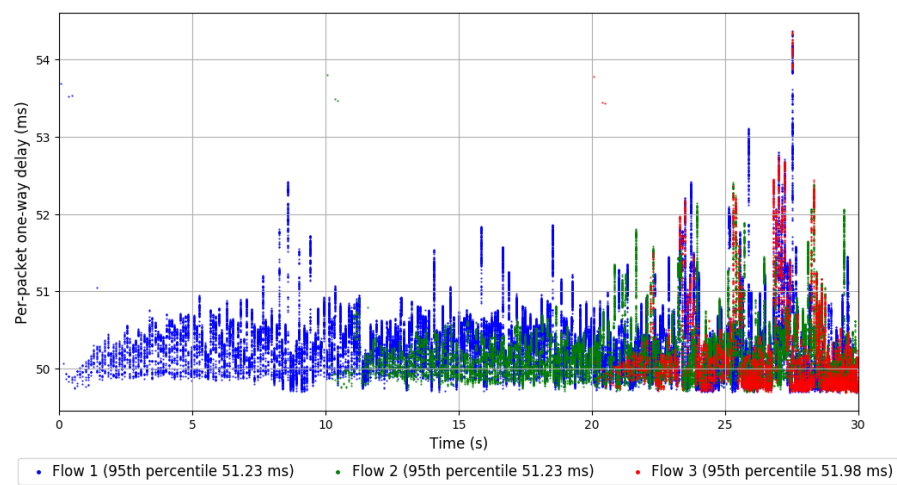
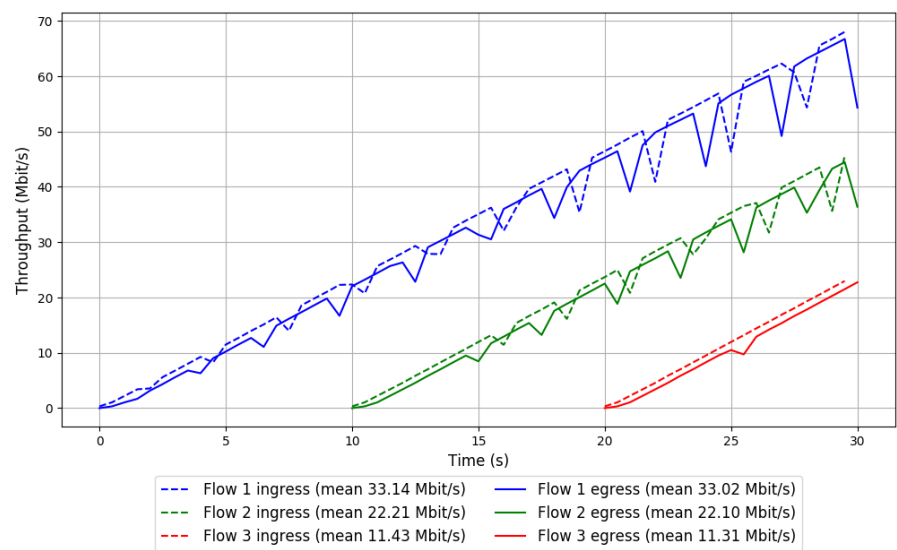
Average throughput: 11.31 Mbit/s

95th percentile per-packet one-way delay: 51.980 ms

Loss rate: 2.06%



Run 7: Report of LEDBAT — Data Link

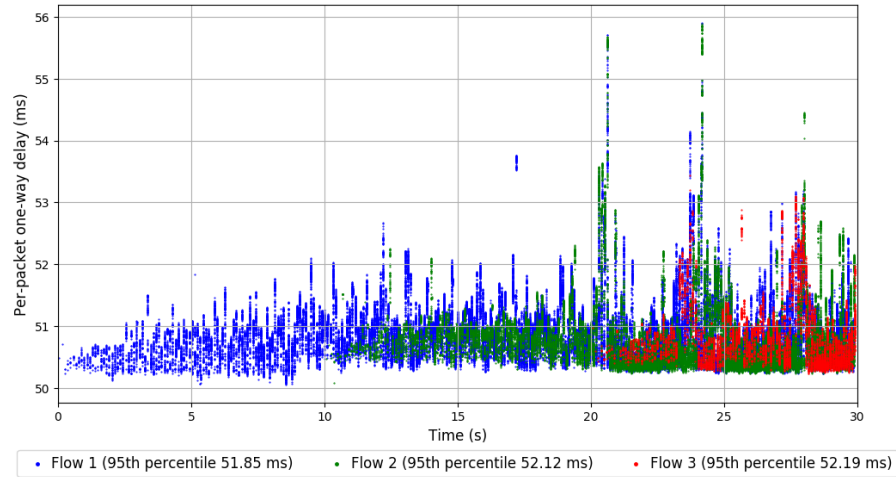
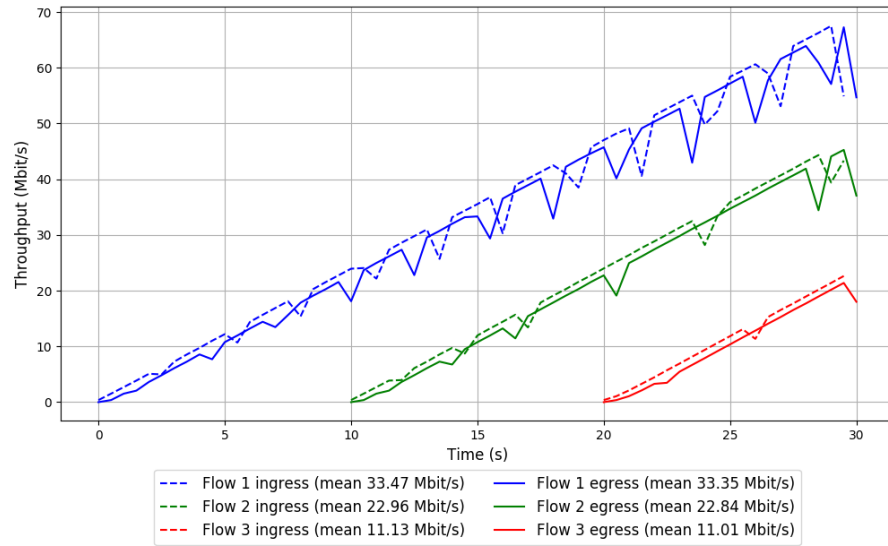


Run 8: Statistics of LEDBAT

Start at: 2018-06-02 00:54:12  
End at: 2018-06-02 00:54:42  
Local clock offset: 0.068 ms  
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2018-06-02 03:27:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 52.09 Mbit/s  
95th percentile per-packet one-way delay: 51.934 ms  
Loss rate: 0.89%  
-- Flow 1:  
Average throughput: 33.35 Mbit/s  
95th percentile per-packet one-way delay: 51.851 ms  
Loss rate: 0.69%  
-- Flow 2:  
Average throughput: 22.84 Mbit/s  
95th percentile per-packet one-way delay: 52.116 ms  
Loss rate: 1.03%  
-- Flow 3:  
Average throughput: 11.01 Mbit/s  
95th percentile per-packet one-way delay: 52.186 ms  
Loss rate: 2.09%

# Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-06-02 01:17:03

End at: 2018-06-02 01:17:33

Local clock offset: 0.368 ms

Remote clock offset: 0.343 ms

# Below is generated by plot.py at 2018-06-02 03:27:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 36.51 Mbit/s

95th percentile per-packet one-way delay: 52.005 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 17.94 Mbit/s

95th percentile per-packet one-way delay: 51.946 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 22.76 Mbit/s

95th percentile per-packet one-way delay: 52.290 ms

Loss rate: 1.02%

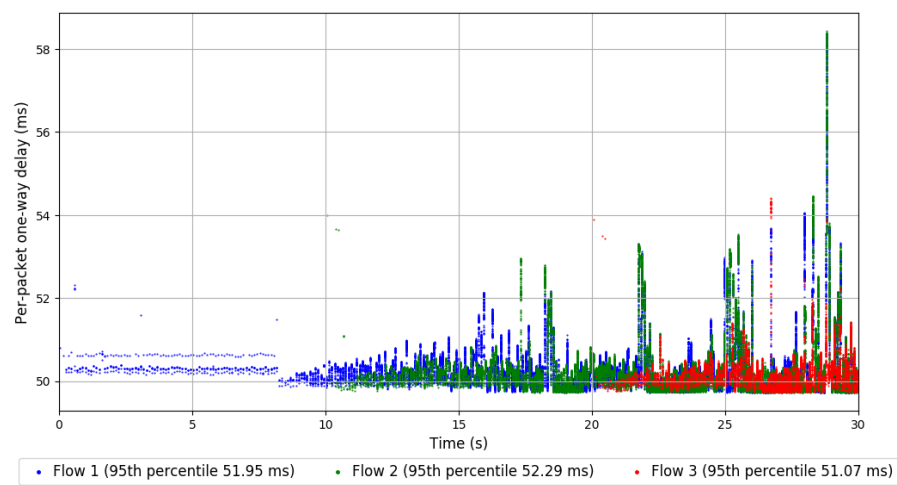
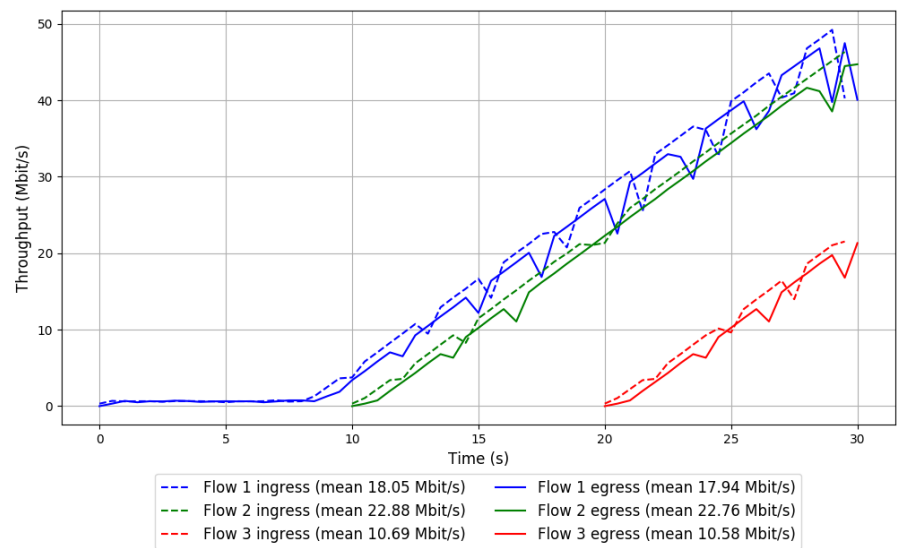
-- Flow 3:

Average throughput: 10.58 Mbit/s

95th percentile per-packet one-way delay: 51.071 ms

Loss rate: 2.12%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-06-02 01:40:13

End at: 2018-06-02 01:40:43

Local clock offset: 0.221 ms

Remote clock offset: 0.088 ms

# Below is generated by plot.py at 2018-06-02 03:27:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 51.99 Mbit/s

95th percentile per-packet one-way delay: 52.432 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 33.32 Mbit/s

95th percentile per-packet one-way delay: 52.200 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 22.53 Mbit/s

95th percentile per-packet one-way delay: 52.829 ms

Loss rate: 1.03%

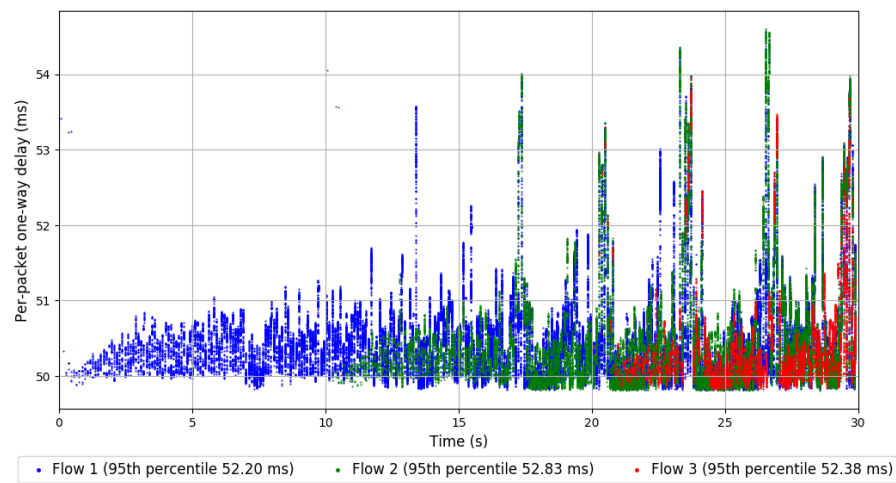
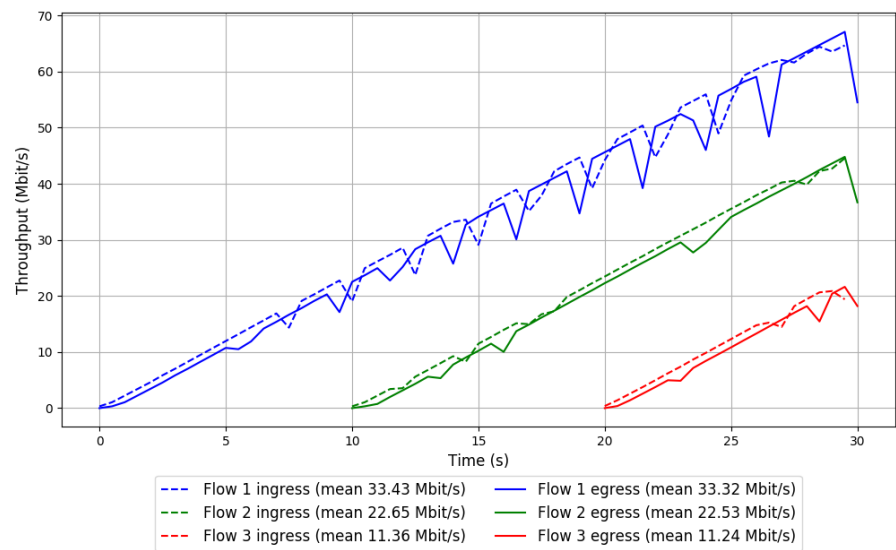
-- Flow 3:

Average throughput: 11.24 Mbit/s

95th percentile per-packet one-way delay: 52.379 ms

Loss rate: 2.07%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-06-01 22:02:05

End at: 2018-06-01 22:02:35

Local clock offset: 0.622 ms

Remote clock offset: -0.24 ms

# Below is generated by plot.py at 2018-06-02 03:27:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 531.38 Mbit/s

95th percentile per-packet one-way delay: 145.356 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 475.48 Mbit/s

95th percentile per-packet one-way delay: 145.097 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 68.97 Mbit/s

95th percentile per-packet one-way delay: 147.693 ms

Loss rate: 1.47%

-- Flow 3:

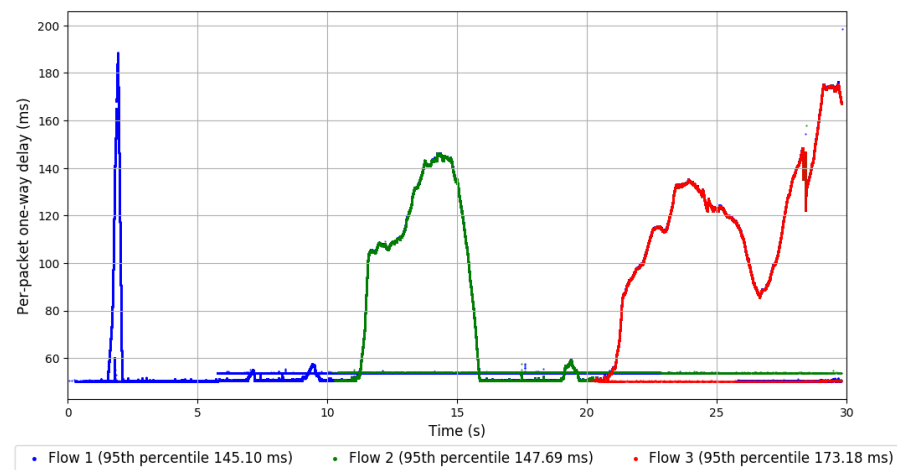
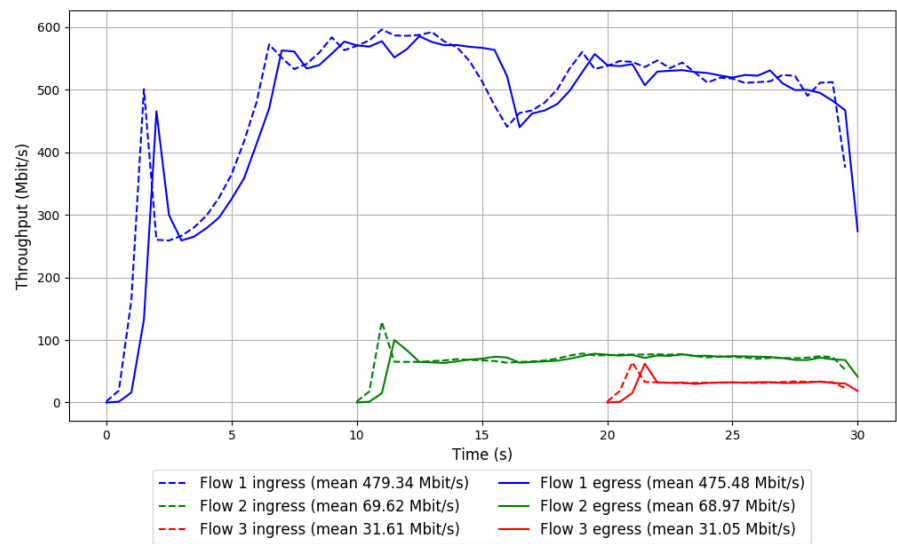
Average throughput: 31.05 Mbit/s

95th percentile per-packet one-way delay: 173.181 ms

Loss rate: 2.80%



Run 1: Report of PCC-Allegro — Data Link

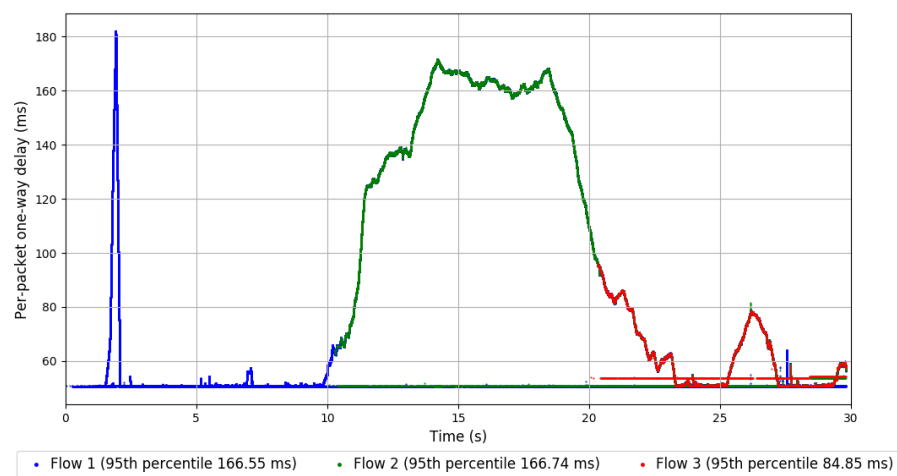
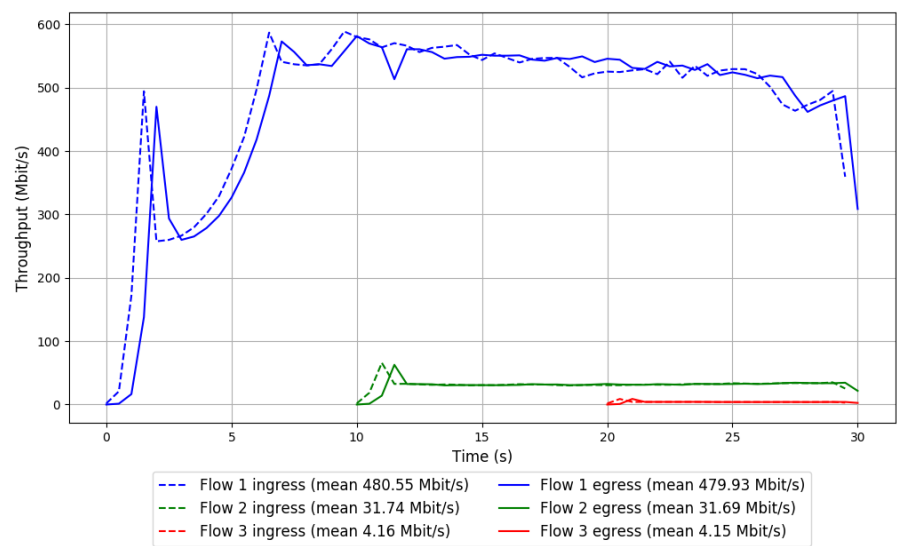


Run 2: Statistics of PCC-Allegro

Start at: 2018-06-01 22:25:19  
End at: 2018-06-01 22:25:49  
Local clock offset: 0.782 ms  
Remote clock offset: -0.244 ms

# Below is generated by plot.py at 2018-06-02 03:27:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 502.30 Mbit/s  
95th percentile per-packet one-way delay: 166.562 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 479.93 Mbit/s  
95th percentile per-packet one-way delay: 166.552 ms  
Loss rate: 0.48%  
-- Flow 2:  
Average throughput: 31.69 Mbit/s  
95th percentile per-packet one-way delay: 166.742 ms  
Loss rate: 0.68%  
-- Flow 3:  
Average throughput: 4.15 Mbit/s  
95th percentile per-packet one-way delay: 84.852 ms  
Loss rate: 1.13%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-06-01 22:48:17

End at: 2018-06-01 22:48:47

Local clock offset: 0.599 ms

Remote clock offset: 0.107 ms

# Below is generated by plot.py at 2018-06-02 03:27:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 497.34 Mbit/s

95th percentile per-packet one-way delay: 168.766 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 456.60 Mbit/s

95th percentile per-packet one-way delay: 168.689 ms

Loss rate: 1.17%

-- Flow 2:

Average throughput: 30.73 Mbit/s

95th percentile per-packet one-way delay: 168.997 ms

Loss rate: 1.62%

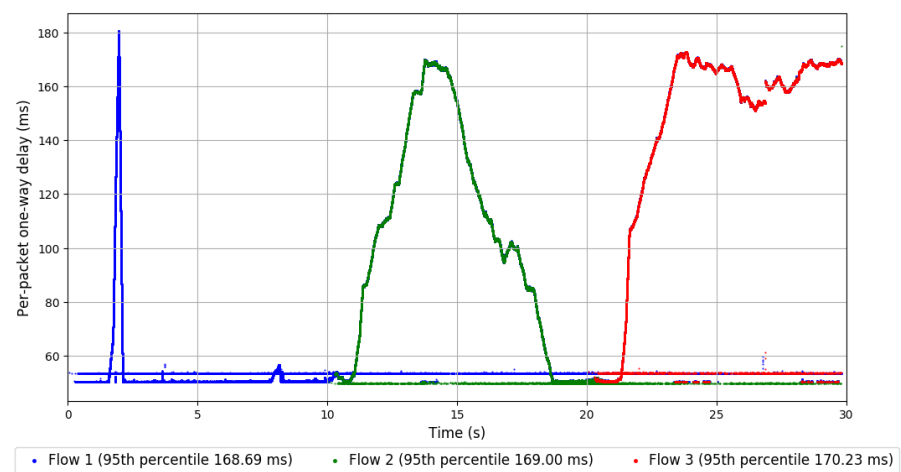
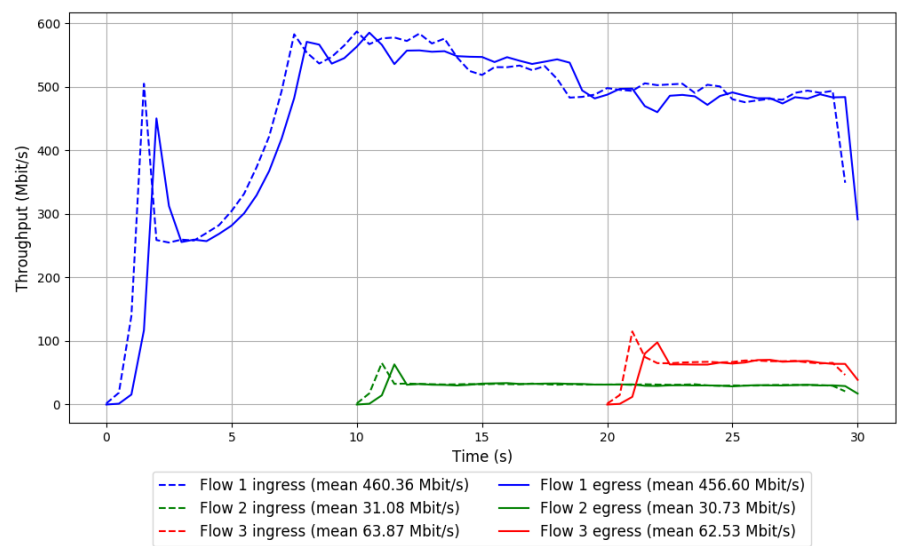
-- Flow 3:

Average throughput: 62.53 Mbit/s

95th percentile per-packet one-way delay: 170.231 ms

Loss rate: 3.16%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-06-01 23:11:29

End at: 2018-06-01 23:11:59

Local clock offset: 0.631 ms

Remote clock offset: 0.069 ms

# Below is generated by plot.py at 2018-06-02 03:27:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 478.49 Mbit/s

95th percentile per-packet one-way delay: 113.688 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 473.98 Mbit/s

95th percentile per-packet one-way delay: 113.685 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 4.67 Mbit/s

95th percentile per-packet one-way delay: 113.348 ms

Loss rate: 0.70%

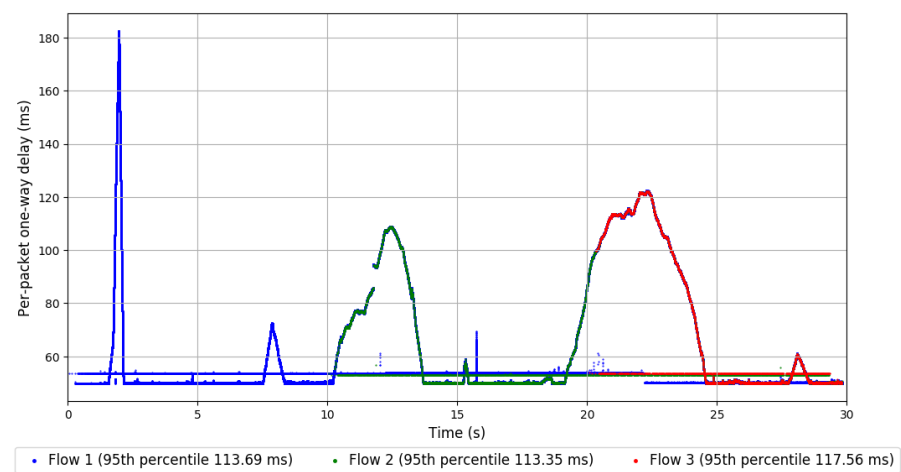
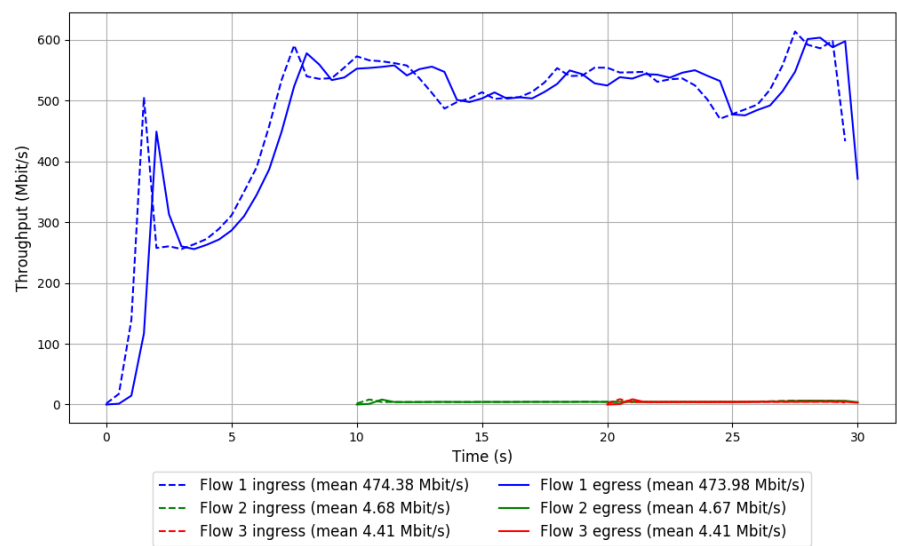
-- Flow 3:

Average throughput: 4.41 Mbit/s

95th percentile per-packet one-way delay: 117.557 ms

Loss rate: 1.10%

Run 4: Report of PCC-Allegro — Data Link



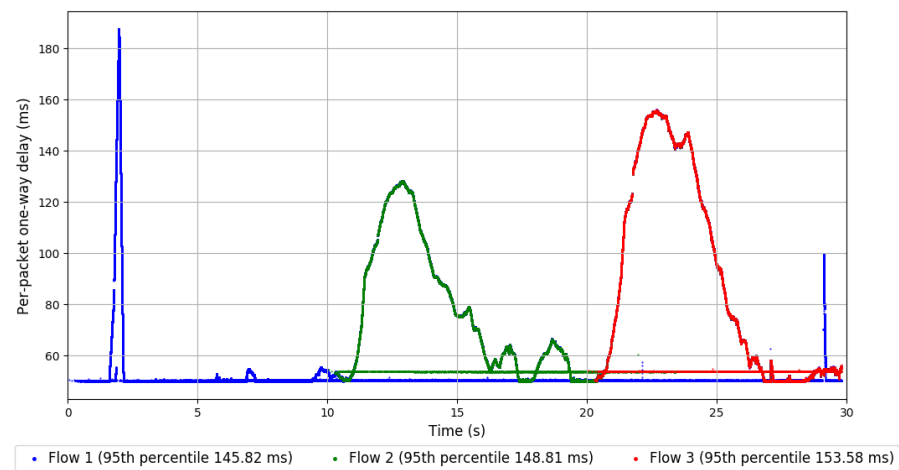
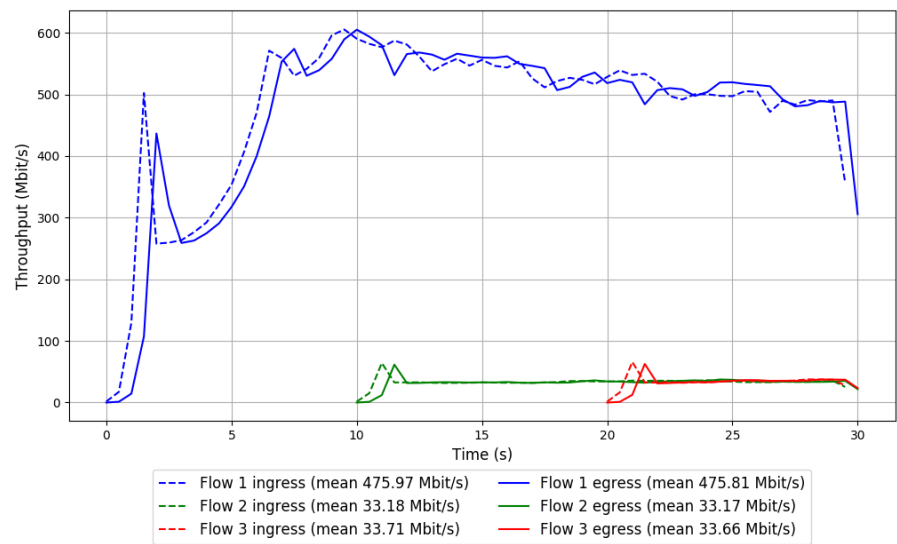
Run 5: Statistics of PCC-Allegro

Start at: 2018-06-01 23:34:17  
End at: 2018-06-01 23:34:47  
Local clock offset: 0.087 ms  
Remote clock offset: -0.226 ms

# Below is generated by plot.py at 2018-06-02 03:27:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 508.82 Mbit/s  
95th percentile per-packet one-way delay: 146.281 ms  
Loss rate: 0.41%  
-- Flow 1:  
Average throughput: 475.81 Mbit/s  
95th percentile per-packet one-way delay: 145.824 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 33.17 Mbit/s  
95th percentile per-packet one-way delay: 148.813 ms  
Loss rate: 0.57%  
-- Flow 3:  
Average throughput: 33.66 Mbit/s  
95th percentile per-packet one-way delay: 153.578 ms  
Loss rate: 1.23%



Run 5: Report of PCC-Allegro — Data Link

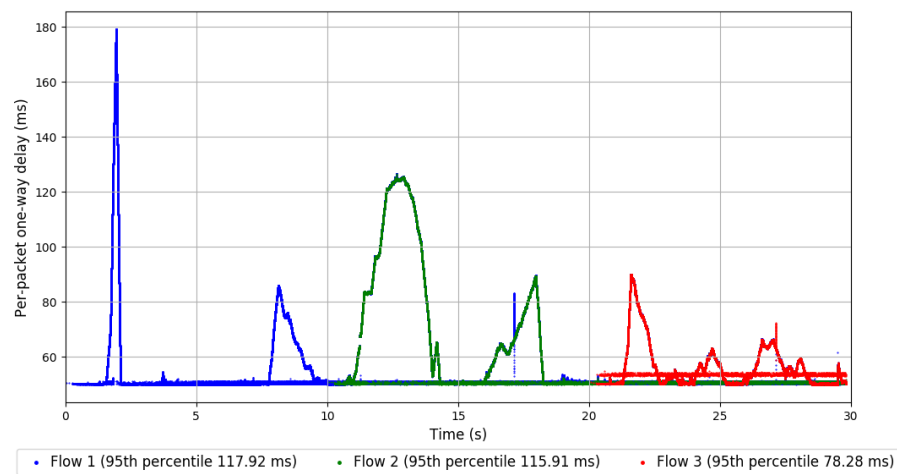
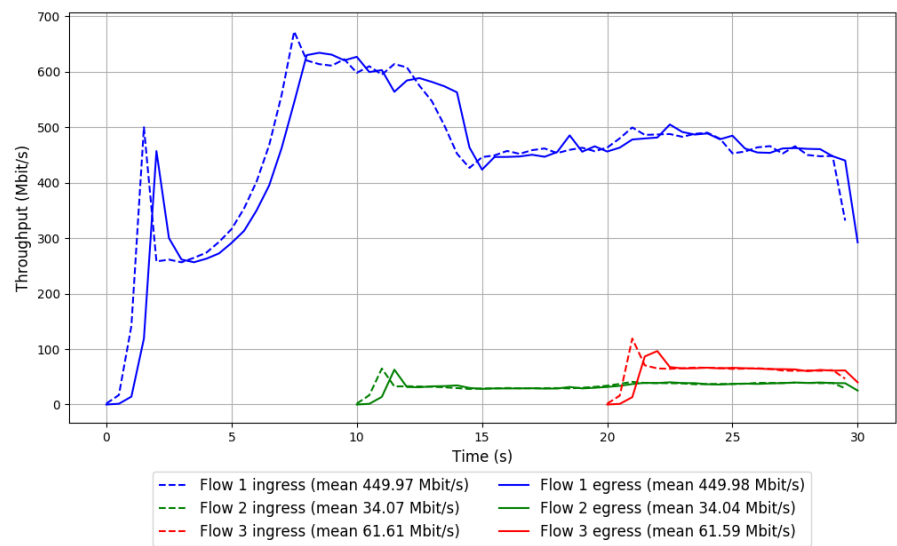


Run 6: Statistics of PCC-Allegro

Start at: 2018-06-01 23:57:08  
End at: 2018-06-01 23:57:38  
Local clock offset: -0.087 ms  
Remote clock offset: -0.183 ms

# Below is generated by plot.py at 2018-06-02 03:27:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 492.71 Mbit/s  
95th percentile per-packet one-way delay: 116.935 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 449.98 Mbit/s  
95th percentile per-packet one-way delay: 117.922 ms  
Loss rate: 0.35%  
-- Flow 2:  
Average throughput: 34.04 Mbit/s  
95th percentile per-packet one-way delay: 115.914 ms  
Loss rate: 0.62%  
-- Flow 3:  
Average throughput: 61.59 Mbit/s  
95th percentile per-packet one-way delay: 78.285 ms  
Loss rate: 1.09%

Run 6: Report of PCC-Allegro — Data Link

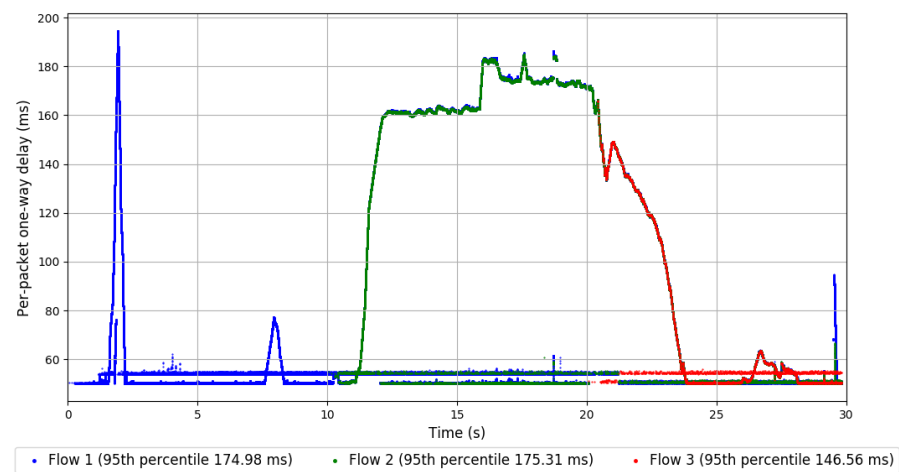
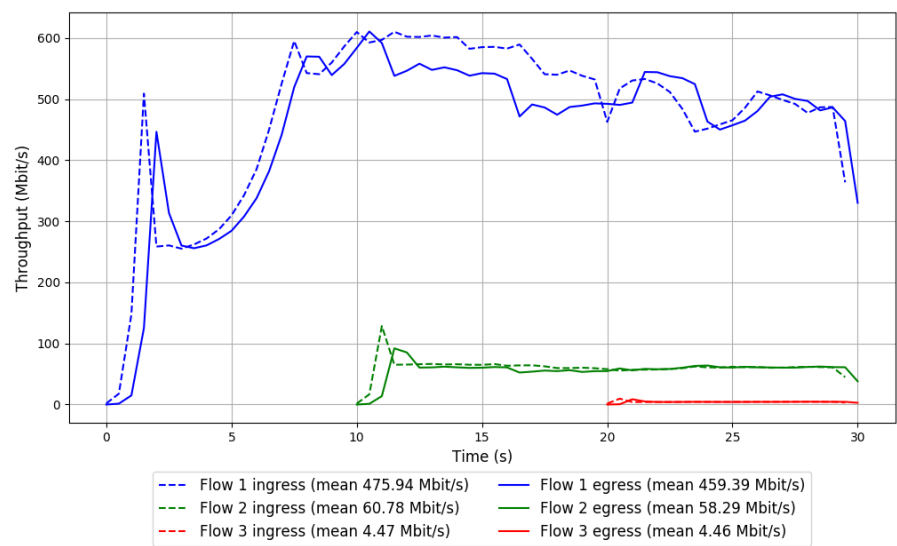


Run 7: Statistics of PCC-Allegro

Start at: 2018-06-02 00:20:17  
End at: 2018-06-02 00:20:47  
Local clock offset: 0.073 ms  
Remote clock offset: -0.133 ms

# Below is generated by plot.py at 2018-06-02 03:27:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 499.50 Mbit/s  
95th percentile per-packet one-way delay: 174.996 ms  
Loss rate: 3.87%  
-- Flow 1:  
Average throughput: 459.39 Mbit/s  
95th percentile per-packet one-way delay: 174.977 ms  
Loss rate: 3.81%  
-- Flow 2:  
Average throughput: 58.29 Mbit/s  
95th percentile per-packet one-way delay: 175.310 ms  
Loss rate: 4.62%  
-- Flow 3:  
Average throughput: 4.46 Mbit/s  
95th percentile per-packet one-way delay: 146.561 ms  
Loss rate: 1.04%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-06-02 00:43:24

End at: 2018-06-02 00:43:54

Local clock offset: 0.302 ms

Remote clock offset: 0.1 ms

# Below is generated by plot.py at 2018-06-02 03:27:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 461.32 Mbit/s

95th percentile per-packet one-way delay: 174.974 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 448.27 Mbit/s

95th percentile per-packet one-way delay: 174.110 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 4.17 Mbit/s

95th percentile per-packet one-way delay: 173.603 ms

Loss rate: 1.32%

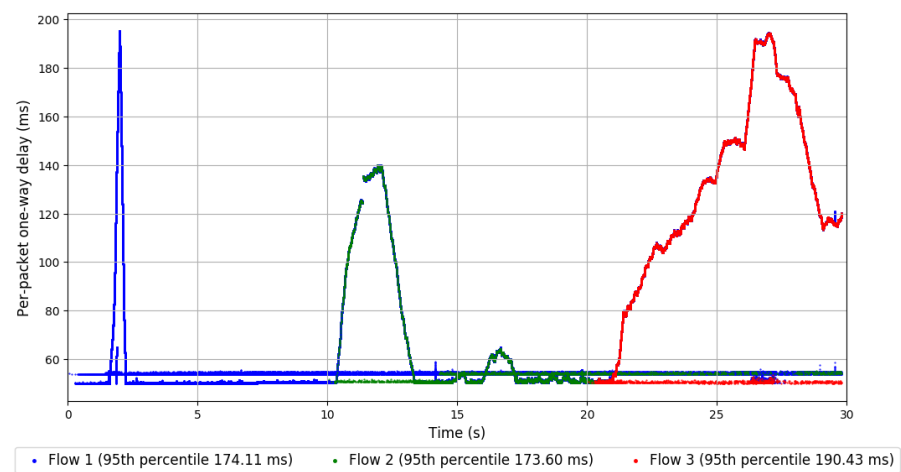
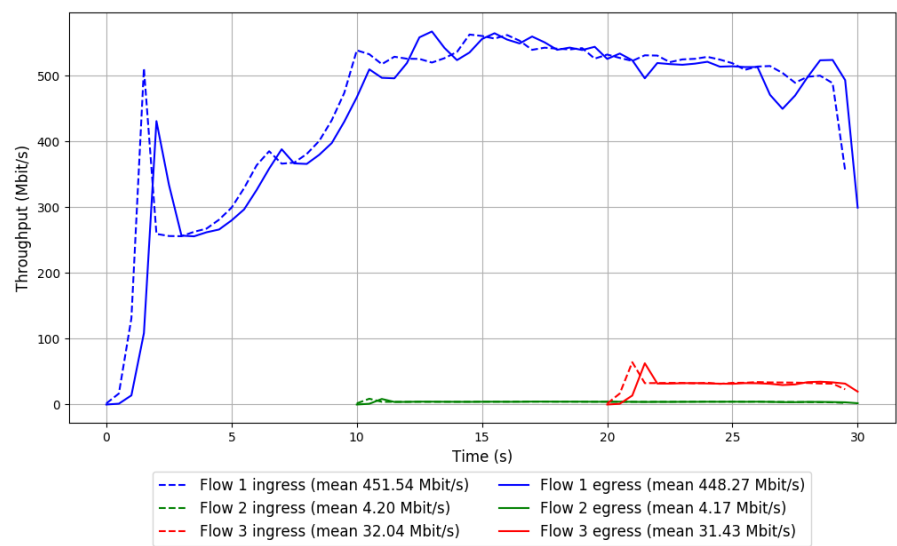
-- Flow 3:

Average throughput: 31.43 Mbit/s

95th percentile per-packet one-way delay: 190.433 ms

Loss rate: 2.96%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-06-02 01:06:13

End at: 2018-06-02 01:06:43

Local clock offset: 0.076 ms

Remote clock offset: 0.111 ms

# Below is generated by plot.py at 2018-06-02 03:27:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 471.48 Mbit/s

95th percentile per-packet one-way delay: 178.371 ms

Loss rate: 3.26%

-- Flow 1:

Average throughput: 448.46 Mbit/s

95th percentile per-packet one-way delay: 178.367 ms

Loss rate: 3.20%

-- Flow 2:

Average throughput: 33.64 Mbit/s

95th percentile per-packet one-way delay: 178.497 ms

Loss rate: 4.48%

-- Flow 3:

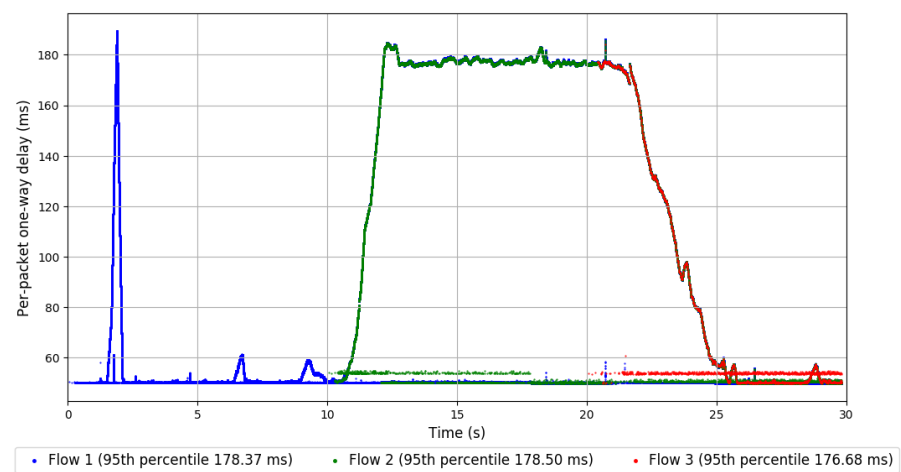
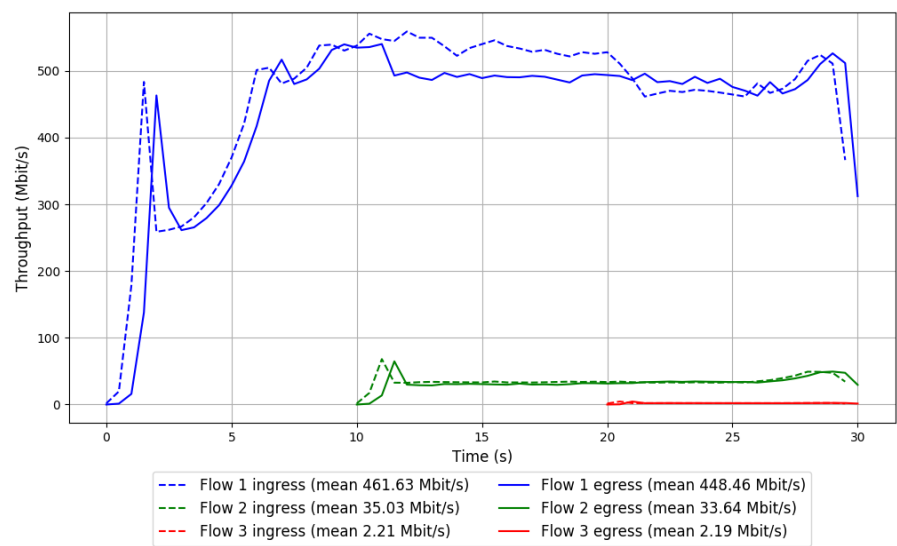
Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 176.680 ms

Loss rate: 2.29%



Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-06-02 01:29:08

End at: 2018-06-02 01:29:38

Local clock offset: 0.545 ms

Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2018-06-02 03:27:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 459.05 Mbit/s

95th percentile per-packet one-way delay: 169.613 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 436.51 Mbit/s

95th percentile per-packet one-way delay: 169.338 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 4.32 Mbit/s

95th percentile per-packet one-way delay: 169.442 ms

Loss rate: 0.81%

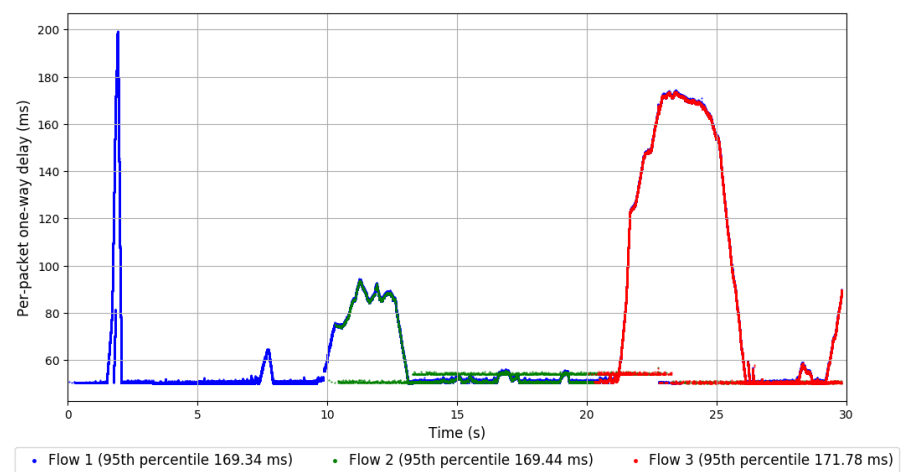
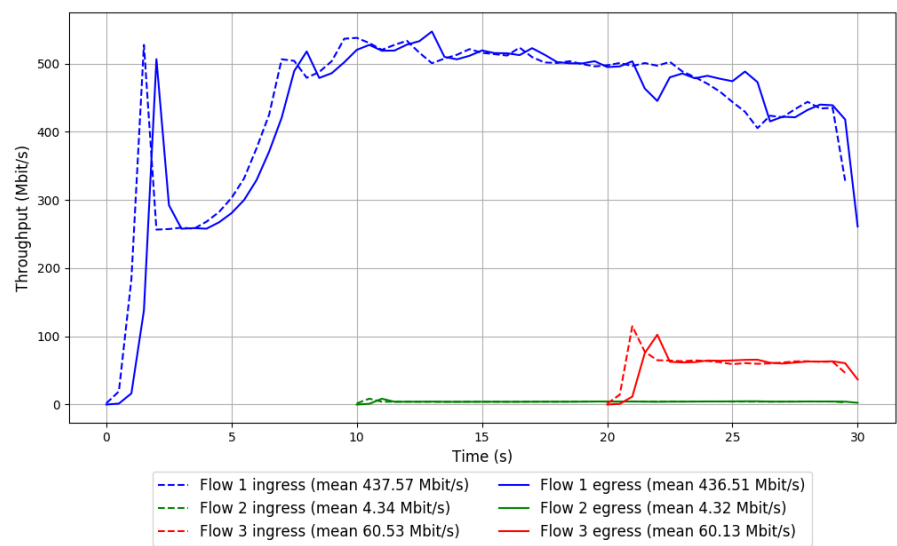
-- Flow 3:

Average throughput: 60.13 Mbit/s

95th percentile per-packet one-way delay: 171.779 ms

Loss rate: 1.75%

Run 10: Report of PCC-Allegro — Data Link

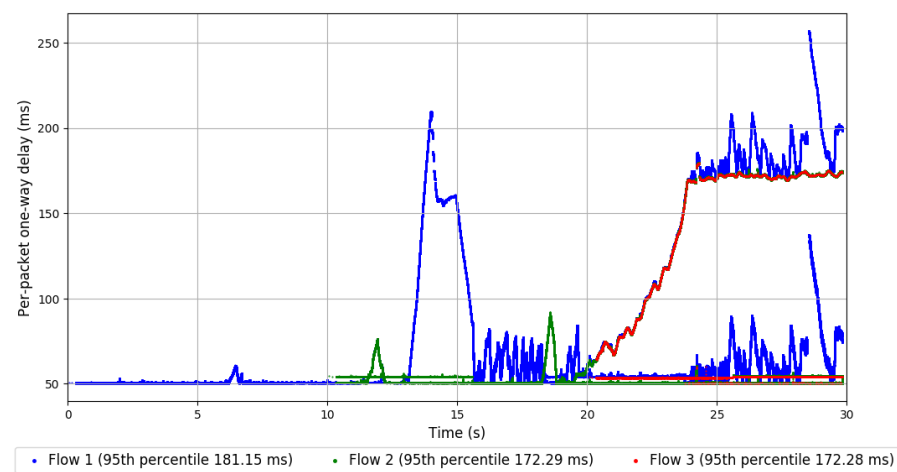
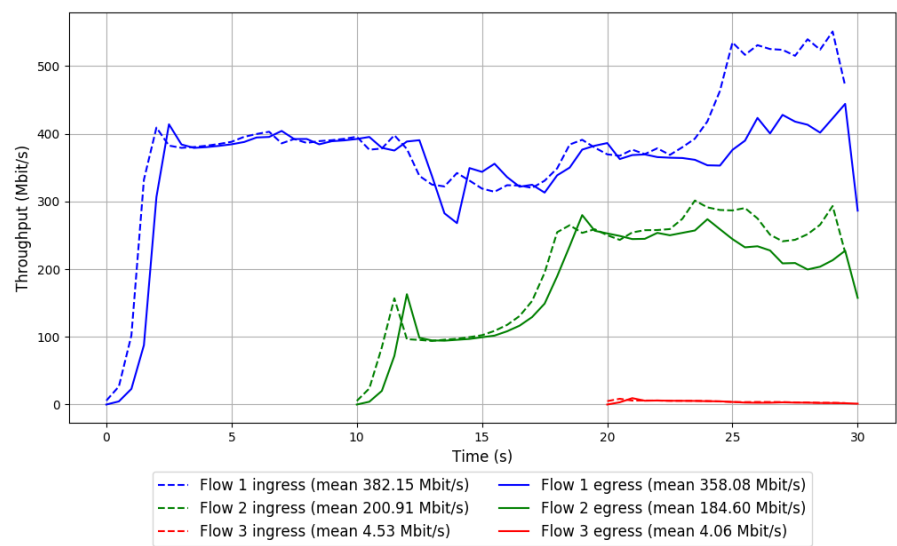


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-01 22:21:22
End at: 2018-06-01 22:21:52
Local clock offset: 0.563 ms
Remote clock offset: -0.217 ms

# Below is generated by plot.py at 2018-06-02 03:34:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 481.92 Mbit/s
95th percentile per-packet one-way delay: 175.848 ms
Loss rate: 7.16%
-- Flow 1:
Average throughput: 358.08 Mbit/s
95th percentile per-packet one-way delay: 181.146 ms
Loss rate: 6.63%
-- Flow 2:
Average throughput: 184.60 Mbit/s
95th percentile per-packet one-way delay: 172.288 ms
Loss rate: 8.62%
-- Flow 3:
Average throughput: 4.06 Mbit/s
95th percentile per-packet one-way delay: 172.276 ms
Loss rate: 11.51%
```

Run 1: Report of PCC-Expr — Data Link

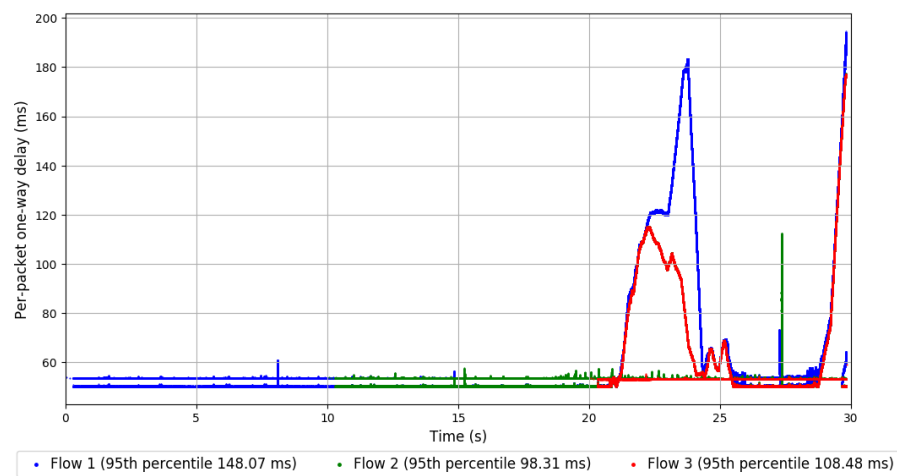
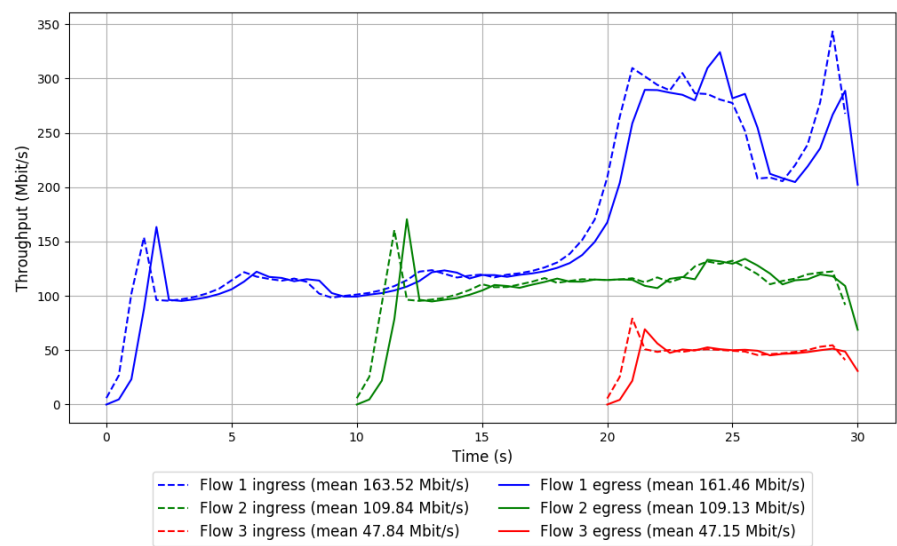


```
Run 2: Statistics of PCC-Expr

Start at: 2018-06-01 22:44:36
End at: 2018-06-01 22:45:06
Local clock offset: 0.181 ms
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2018-06-02 03:34:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 249.32 Mbit/s
95th percentile per-packet one-way delay: 130.303 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 161.46 Mbit/s
95th percentile per-packet one-way delay: 148.071 ms
Loss rate: 1.61%
-- Flow 2:
Average throughput: 109.13 Mbit/s
95th percentile per-packet one-way delay: 98.305 ms
Loss rate: 1.18%
-- Flow 3:
Average throughput: 47.15 Mbit/s
95th percentile per-packet one-way delay: 108.477 ms
Loss rate: 2.43%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-06-01 23:07:39

End at: 2018-06-01 23:08:09

Local clock offset: 0.47 ms

Remote clock offset: 0.027 ms

# Below is generated by plot.py at 2018-06-02 03:36:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 349.15 Mbit/s

95th percentile per-packet one-way delay: 267.675 ms

Loss rate: 10.04%

-- Flow 1:

Average throughput: 97.26 Mbit/s

95th percentile per-packet one-way delay: 173.653 ms

Loss rate: 3.51%

-- Flow 2:

Average throughput: 341.07 Mbit/s

95th percentile per-packet one-way delay: 277.619 ms

Loss rate: 12.80%

-- Flow 3:

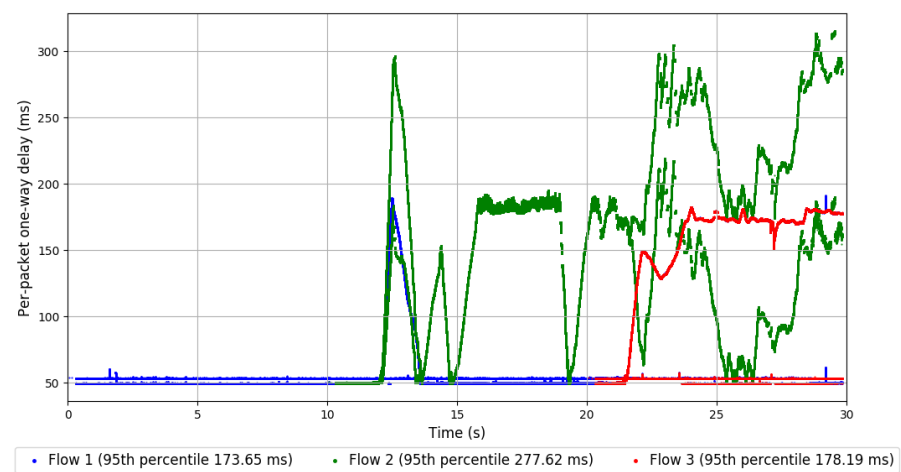
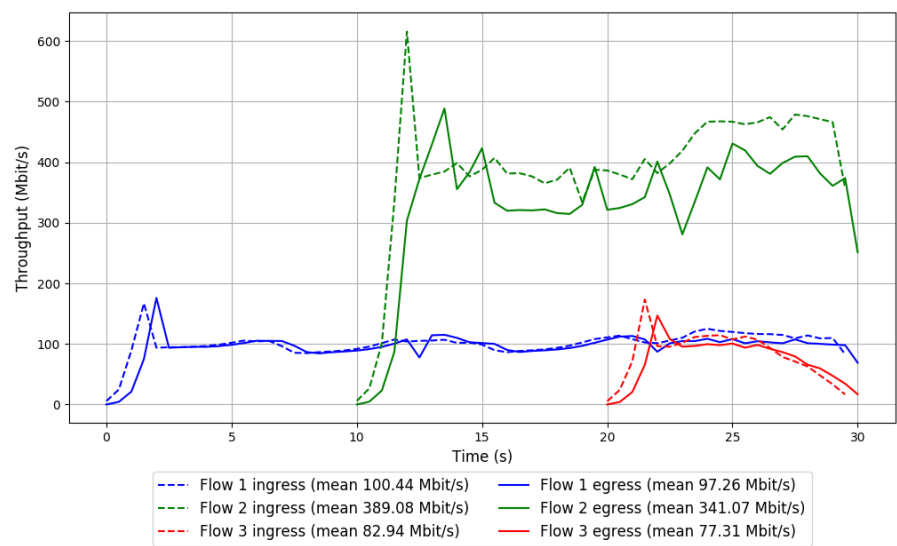
Average throughput: 77.31 Mbit/s

95th percentile per-packet one-way delay: 178.194 ms

Loss rate: 7.80%



Run 3: Report of PCC-Expr — Data Link

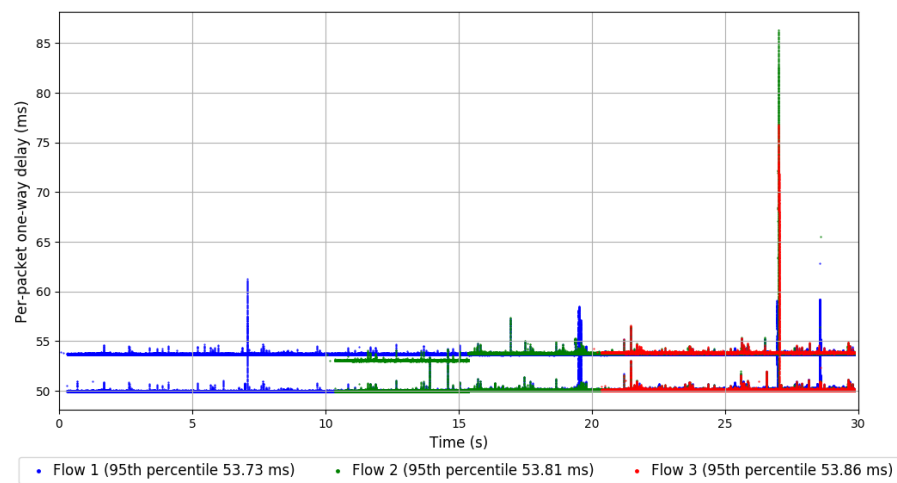
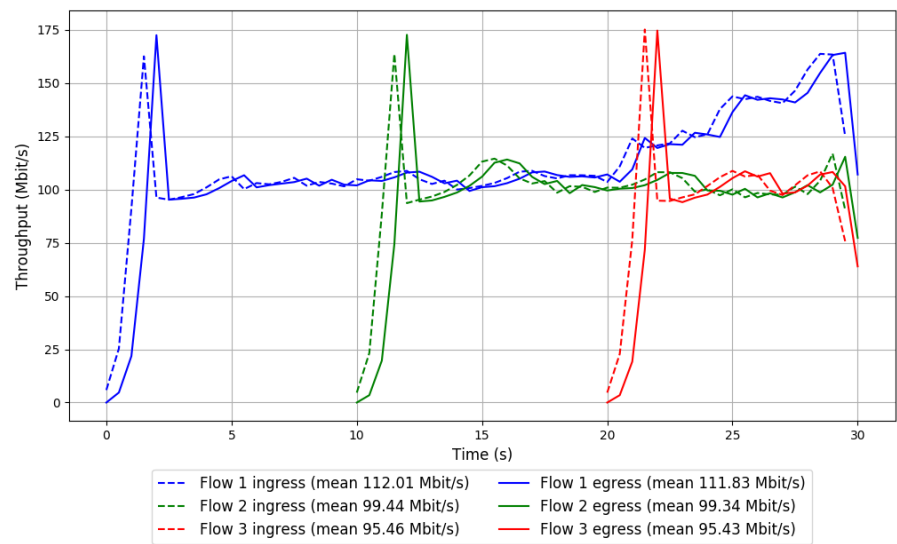


Run 4: Statistics of PCC-Expr

Start at: 2018-06-01 23:30:45  
End at: 2018-06-01 23:31:15  
Local clock offset: 0.34 ms  
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2018-06-02 03:36:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 209.04 Mbit/s  
95th percentile per-packet one-way delay: 53.819 ms  
Loss rate: 0.65%  
-- Flow 1:  
Average throughput: 111.83 Mbit/s  
95th percentile per-packet one-way delay: 53.733 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 99.34 Mbit/s  
95th percentile per-packet one-way delay: 53.807 ms  
Loss rate: 0.64%  
-- Flow 3:  
Average throughput: 95.43 Mbit/s  
95th percentile per-packet one-way delay: 53.861 ms  
Loss rate: 1.14%

Run 4: Report of PCC-Expr — Data Link

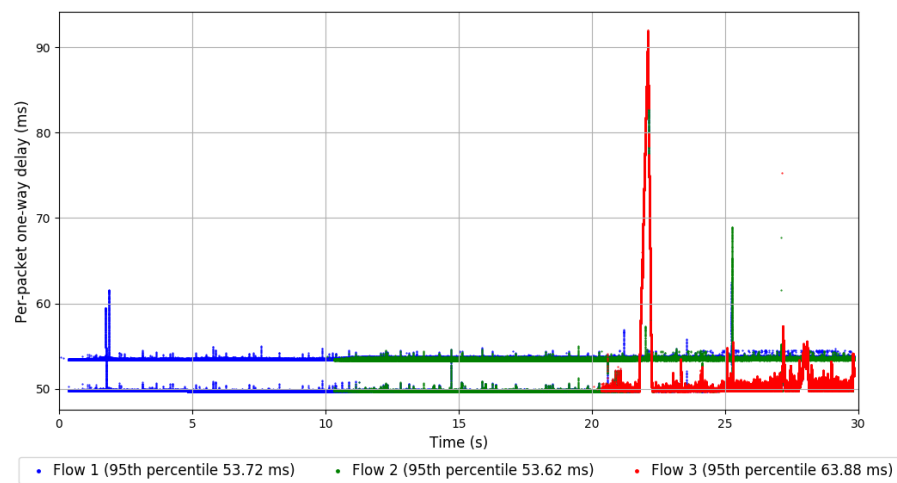
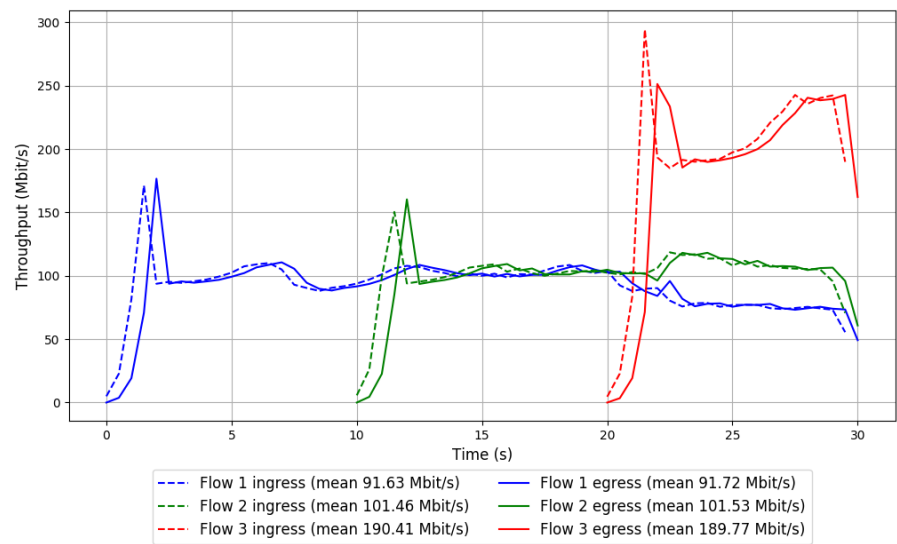


Run 5: Statistics of PCC-Expr

Start at: 2018-06-01 23:53:36  
End at: 2018-06-01 23:54:06  
Local clock offset: -0.15 ms  
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2018-06-02 03:36:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 221.30 Mbit/s  
95th percentile per-packet one-way delay: 53.727 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 91.72 Mbit/s  
95th percentile per-packet one-way delay: 53.715 ms  
Loss rate: 0.26%  
-- Flow 2:  
Average throughput: 101.53 Mbit/s  
95th percentile per-packet one-way delay: 53.617 ms  
Loss rate: 0.47%  
-- Flow 3:  
Average throughput: 189.77 Mbit/s  
95th percentile per-packet one-way delay: 63.885 ms  
Loss rate: 1.39%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-06-02 00:16:29

End at: 2018-06-02 00:16:59

Local clock offset: 0.03 ms

Remote clock offset: 0.101 ms

# Below is generated by plot.py at 2018-06-02 03:36:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 343.34 Mbit/s

95th percentile per-packet one-way delay: 206.301 ms

Loss rate: 4.61%

-- Flow 1:

Average throughput: 150.52 Mbit/s

95th percentile per-packet one-way delay: 53.889 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 272.31 Mbit/s

95th percentile per-packet one-way delay: 211.821 ms

Loss rate: 7.93%

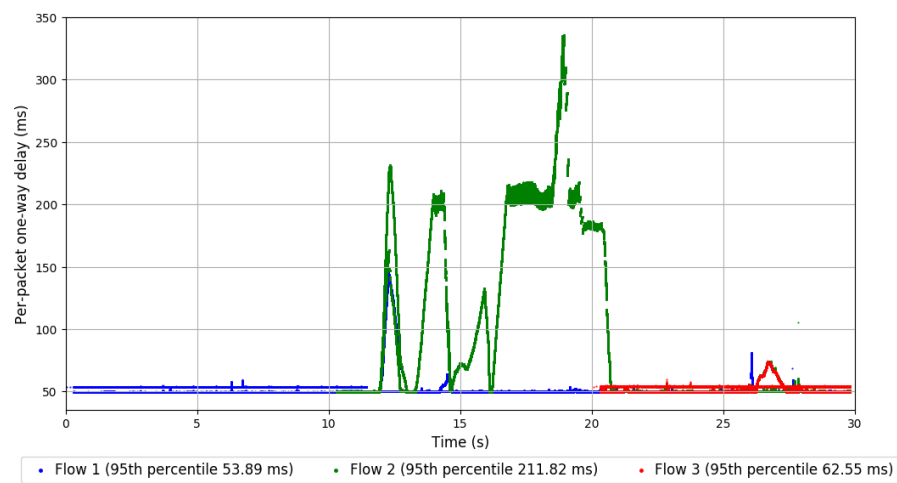
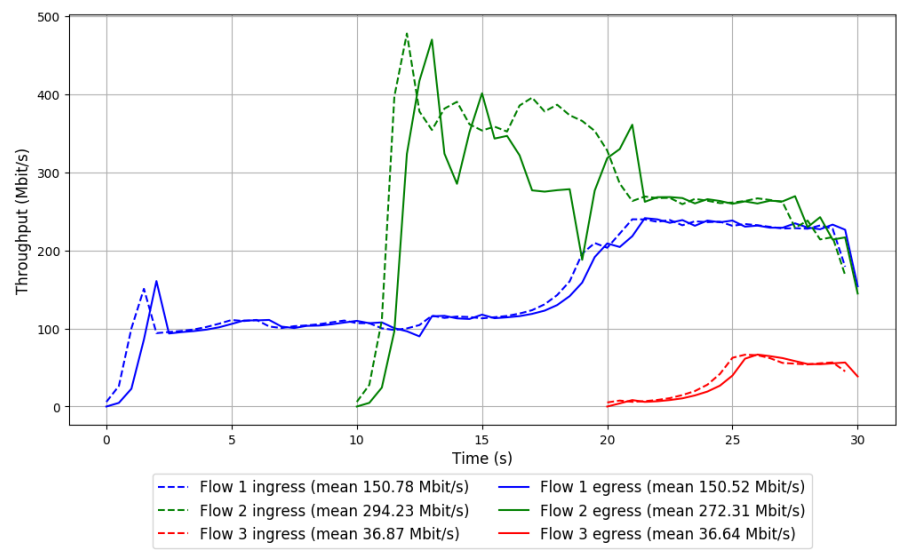
-- Flow 3:

Average throughput: 36.64 Mbit/s

95th percentile per-packet one-way delay: 62.555 ms

Loss rate: 1.69%

Run 6: Report of PCC-Expr — Data Link



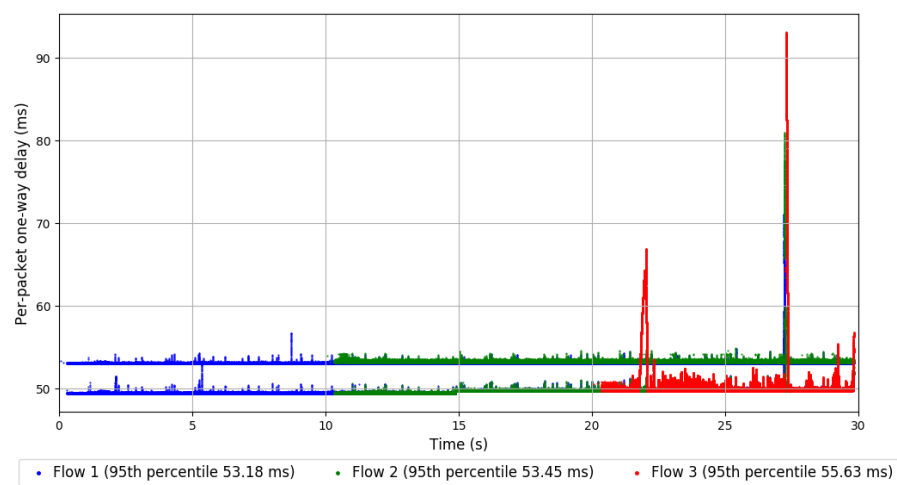
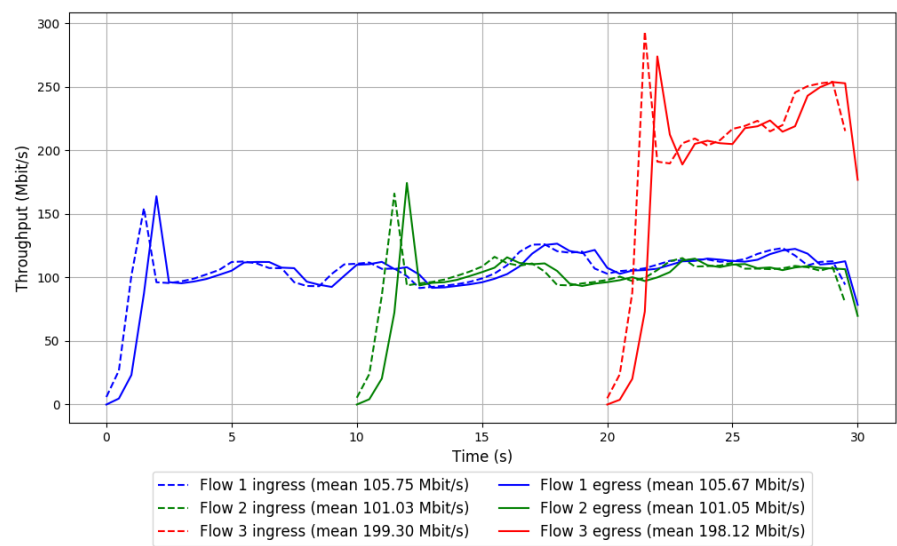
```
Run 7: Statistics of PCC-Expr

Start at: 2018-06-02 00:39:46
End at: 2018-06-02 00:40:16
Local clock offset: -0.173 ms
Remote clock offset: 0.192 ms

# Below is generated by plot.py at 2018-06-02 03:36:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 237.61 Mbit/s
95th percentile per-packet one-way delay: 53.407 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 105.67 Mbit/s
95th percentile per-packet one-way delay: 53.181 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 101.05 Mbit/s
95th percentile per-packet one-way delay: 53.451 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 198.12 Mbit/s
95th percentile per-packet one-way delay: 55.628 ms
Loss rate: 1.65%
```



Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-06-02 01:02:29

End at: 2018-06-02 01:02:59

Local clock offset: -0.123 ms

Remote clock offset: 0.062 ms

# Below is generated by plot.py at 2018-06-02 03:37:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 320.78 Mbit/s

95th percentile per-packet one-way delay: 191.004 ms

Loss rate: 3.42%

-- Flow 1:

Average throughput: 102.59 Mbit/s

95th percentile per-packet one-way delay: 53.685 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 279.89 Mbit/s

95th percentile per-packet one-way delay: 193.537 ms

Loss rate: 5.35%

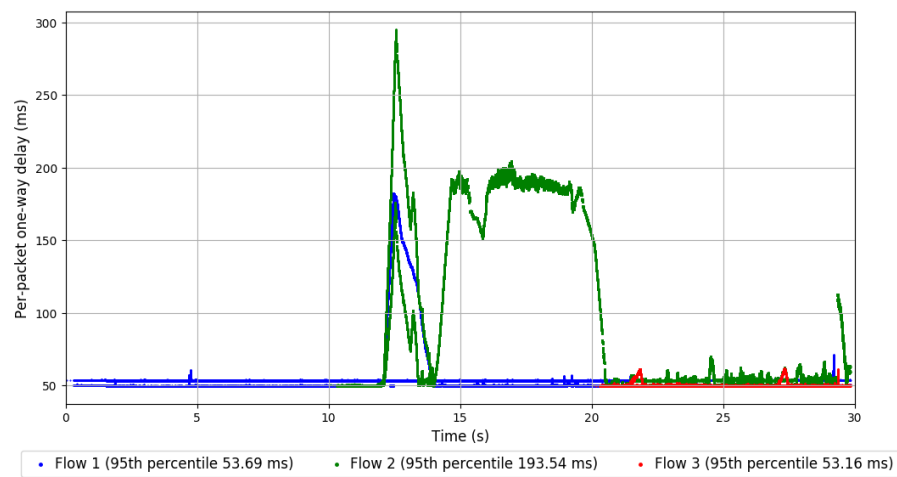
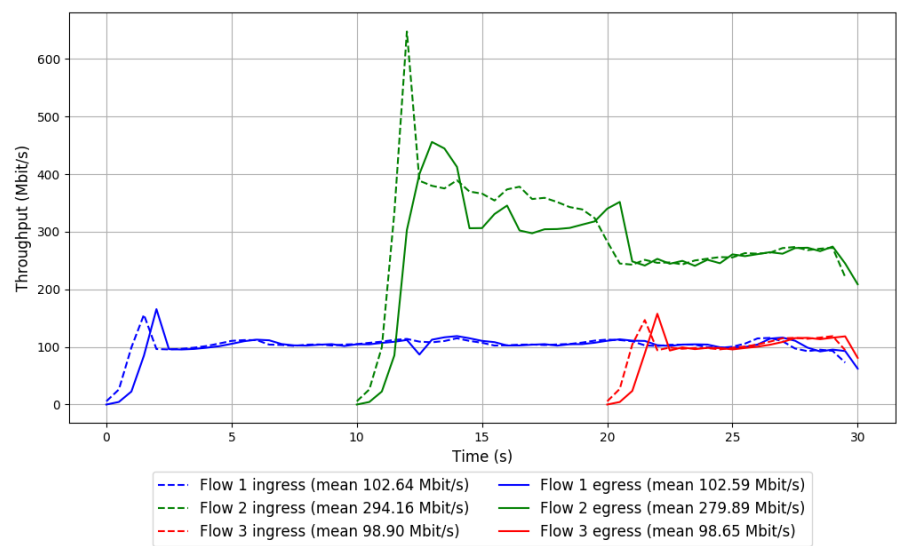
-- Flow 3:

Average throughput: 98.65 Mbit/s

95th percentile per-packet one-way delay: 53.156 ms

Loss rate: 1.31%

Run 8: Report of PCC-Expr — Data Link

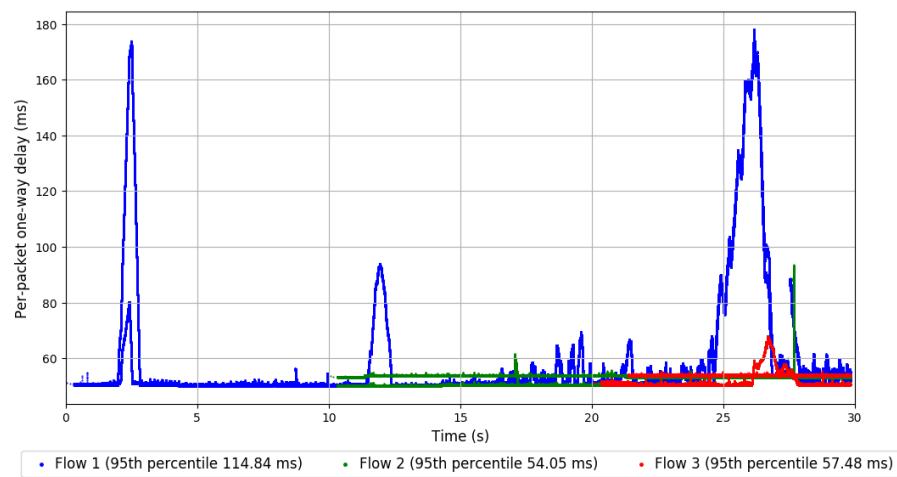
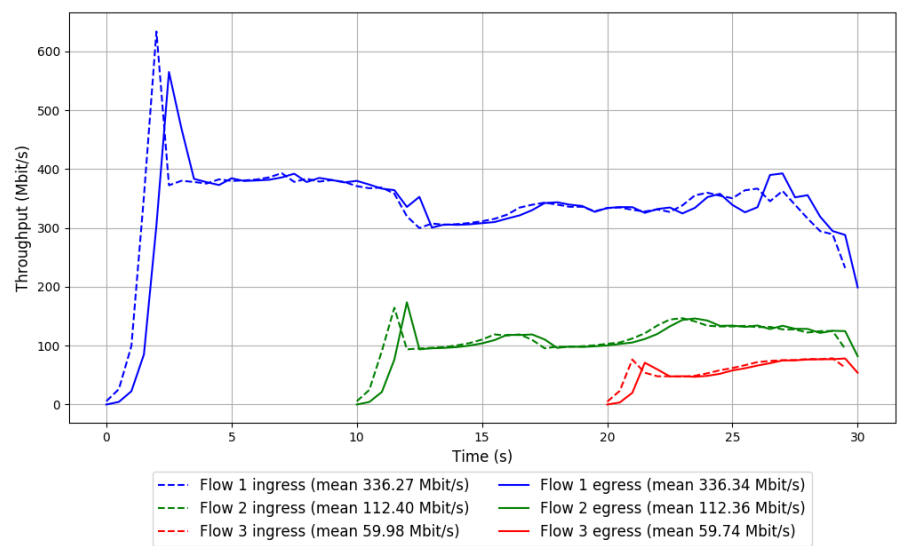


Run 9: Statistics of PCC-Expr

Start at: 2018-06-02 01:25:17  
End at: 2018-06-02 01:25:47  
Local clock offset: 0.26 ms  
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2018-06-02 03:44:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 430.48 Mbit/s  
95th percentile per-packet one-way delay: 97.408 ms  
Loss rate: 0.42%  
-- Flow 1:  
Average throughput: 336.34 Mbit/s  
95th percentile per-packet one-way delay: 114.836 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 112.36 Mbit/s  
95th percentile per-packet one-way delay: 54.052 ms  
Loss rate: 0.57%  
-- Flow 3:  
Average throughput: 59.74 Mbit/s  
95th percentile per-packet one-way delay: 57.481 ms  
Loss rate: 1.44%

Run 9: Report of PCC-Expr — Data Link

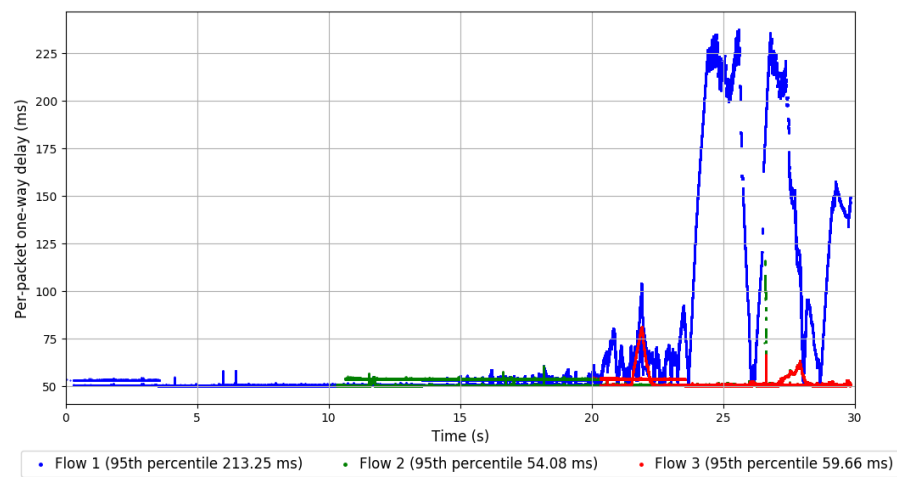
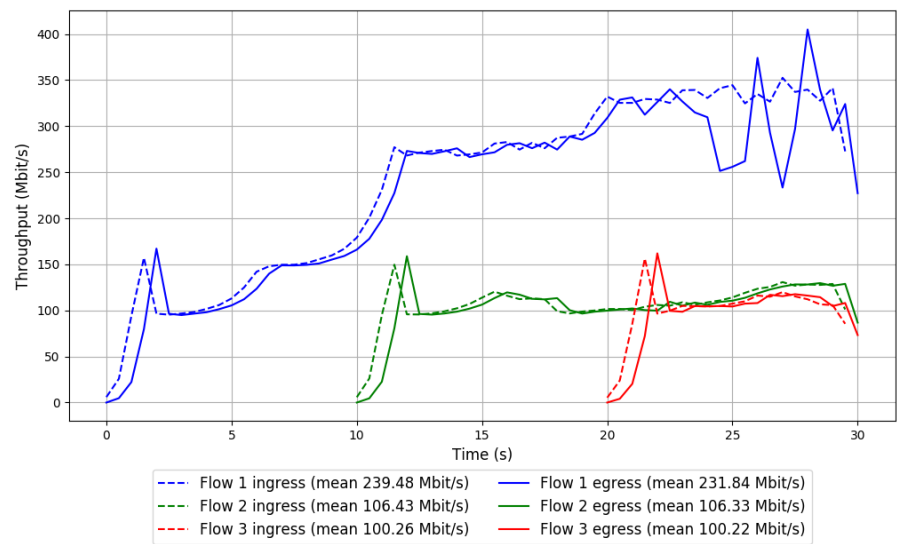


Run 10: Statistics of PCC-Expr

Start at: 2018-06-02 01:48:27  
End at: 2018-06-02 01:48:57  
Local clock offset: 0.142 ms  
Remote clock offset: -0.195 ms

# Below is generated by plot.py at 2018-06-02 03:44:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 335.29 Mbit/s  
95th percentile per-packet one-way delay: 205.440 ms  
Loss rate: 2.71%  
-- Flow 1:  
Average throughput: 231.84 Mbit/s  
95th percentile per-packet one-way delay: 213.245 ms  
Loss rate: 3.54%  
-- Flow 2:  
Average throughput: 106.33 Mbit/s  
95th percentile per-packet one-way delay: 54.077 ms  
Loss rate: 0.65%  
-- Flow 3:  
Average throughput: 100.22 Mbit/s  
95th percentile per-packet one-way delay: 59.659 ms  
Loss rate: 1.14%

Run 10: Report of PCC-Expr — Data Link



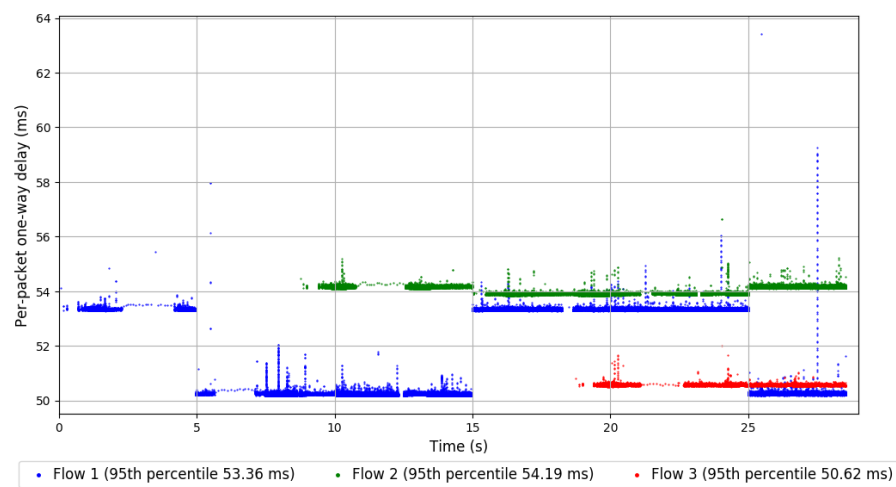
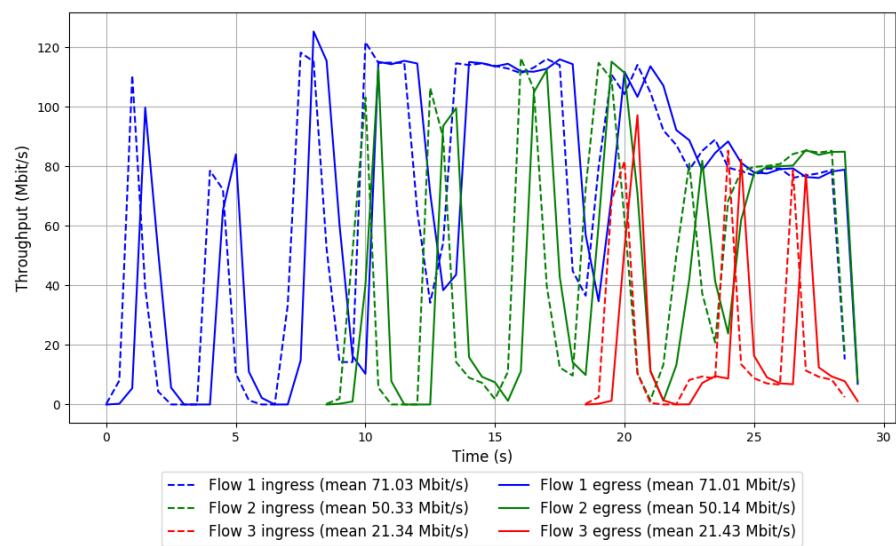
Run 1: Statistics of QUIC Cubic

Start at: 2018-06-01 22:07:42  
End at: 2018-06-01 22:08:12  
Local clock offset: 0.56 ms  
Remote clock offset: -0.261 ms

# Below is generated by plot.py at 2018-06-02 03:44:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 113.19 Mbit/s  
95th percentile per-packet one-way delay: 54.162 ms  
Loss rate: 0.57%  
-- Flow 1:  
Average throughput: 71.01 Mbit/s  
95th percentile per-packet one-way delay: 53.362 ms  
Loss rate: 0.40%  
-- Flow 2:  
Average throughput: 50.14 Mbit/s  
95th percentile per-packet one-way delay: 54.193 ms  
Loss rate: 0.93%  
-- Flow 3:  
Average throughput: 21.43 Mbit/s  
95th percentile per-packet one-way delay: 50.620 ms  
Loss rate: 0.62%



Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-06-01 22:31:12

End at: 2018-06-01 22:31:42

Local clock offset: 0.77 ms

Remote clock offset: 0.164 ms

# Below is generated by plot.py at 2018-06-02 03:44:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 111.47 Mbit/s

95th percentile per-packet one-way delay: 53.316 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 65.18 Mbit/s

95th percentile per-packet one-way delay: 50.697 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 61.13 Mbit/s

95th percentile per-packet one-way delay: 53.324 ms

Loss rate: 1.00%

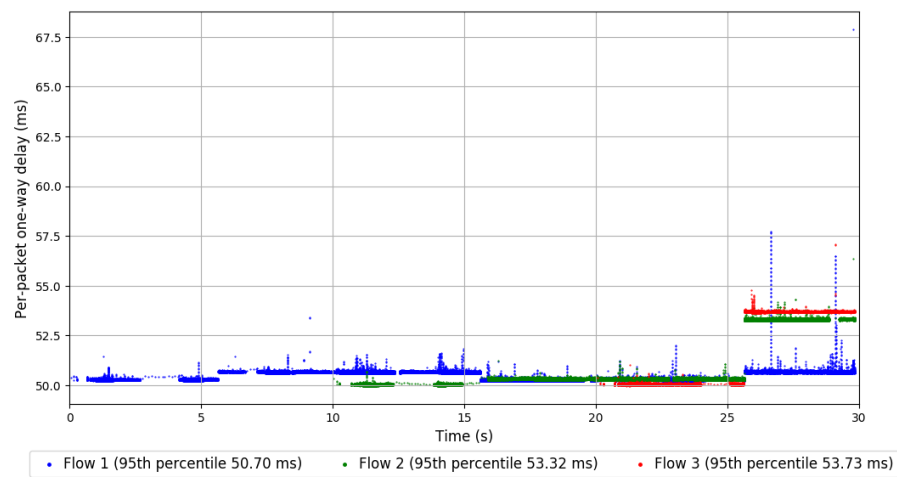
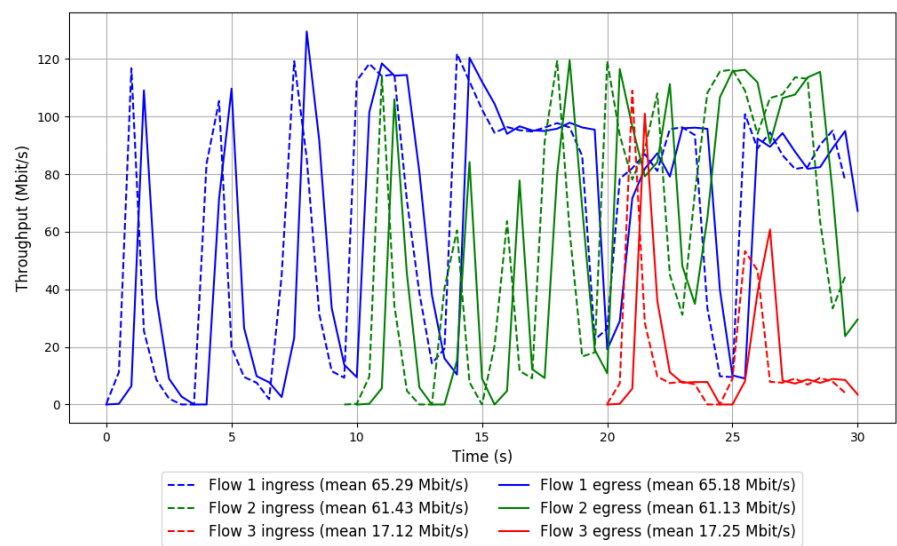
-- Flow 3:

Average throughput: 17.25 Mbit/s

95th percentile per-packet one-way delay: 53.725 ms

Loss rate: 0.32%

Run 2: Report of QUIC Cubic — Data Link

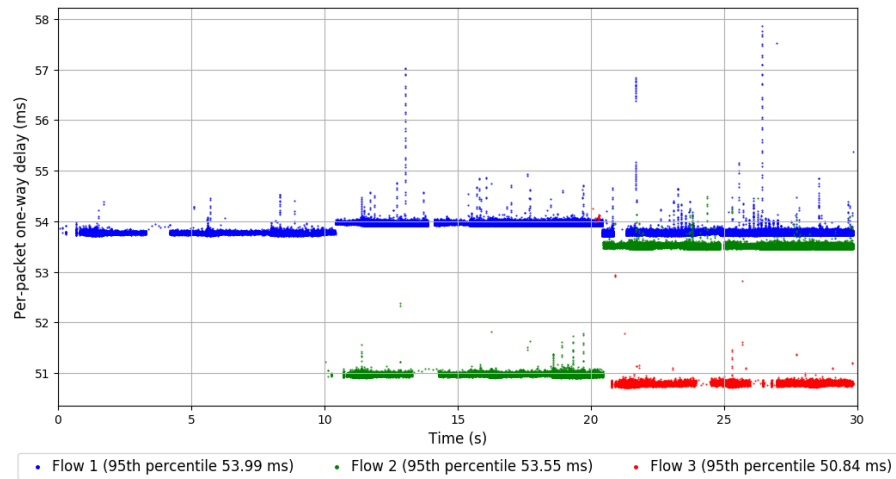
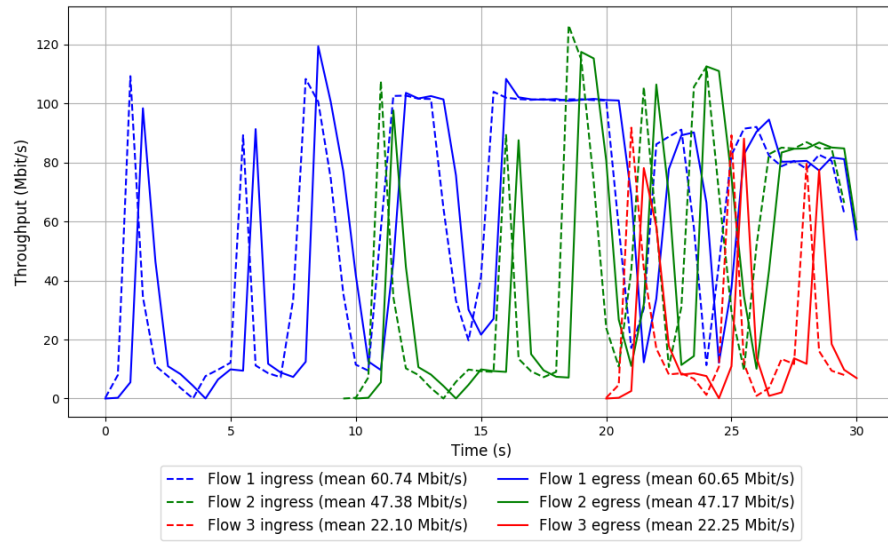


Run 3: Statistics of QUIC Cubic

Start at: 2018-06-01 22:54:07  
End at: 2018-06-01 22:54:37  
Local clock offset: 0.786 ms  
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2018-06-02 03:44:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 99.31 Mbit/s  
95th percentile per-packet one-way delay: 53.978 ms  
Loss rate: 0.63%  
-- Flow 1:  
Average throughput: 60.65 Mbit/s  
95th percentile per-packet one-way delay: 53.988 ms  
Loss rate: 0.49%  
-- Flow 2:  
Average throughput: 47.17 Mbit/s  
95th percentile per-packet one-way delay: 53.546 ms  
Loss rate: 0.96%  
-- Flow 3:  
Average throughput: 22.25 Mbit/s  
95th percentile per-packet one-way delay: 50.844 ms  
Loss rate: 0.44%

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



Run 4: Statistics of QUIC Cubic

Start at: 2018-06-01 23:17:09

End at: 2018-06-01 23:17:39

Local clock offset: 0.745 ms

Remote clock offset: 0.138 ms

# Below is generated by plot.py at 2018-06-02 03:44:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 98.20 Mbit/s

95th percentile per-packet one-way delay: 53.145 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 64.79 Mbit/s

95th percentile per-packet one-way delay: 53.062 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 42.62 Mbit/s

95th percentile per-packet one-way delay: 50.561 ms

Loss rate: 1.02%

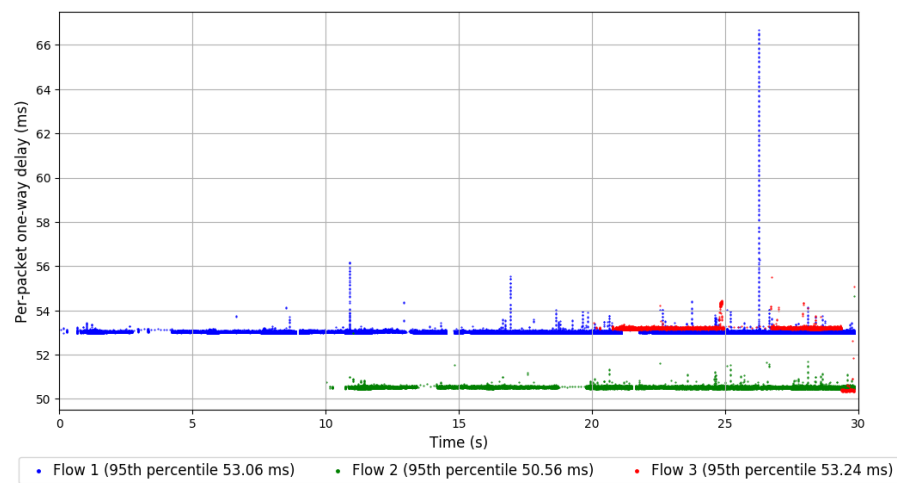
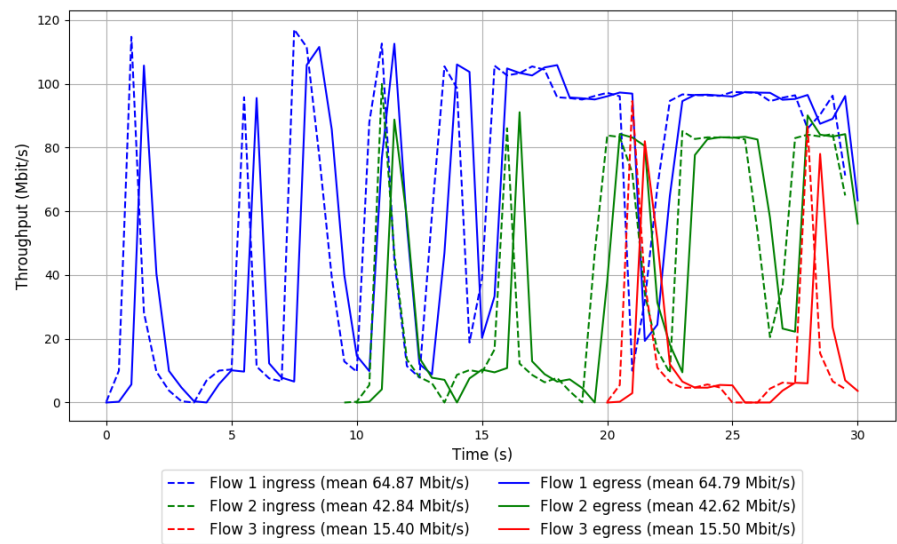
-- Flow 3:

Average throughput: 15.50 Mbit/s

95th percentile per-packet one-way delay: 53.244 ms

Loss rate: 0.39%

Run 4: Report of QUIC Cubic — Data Link



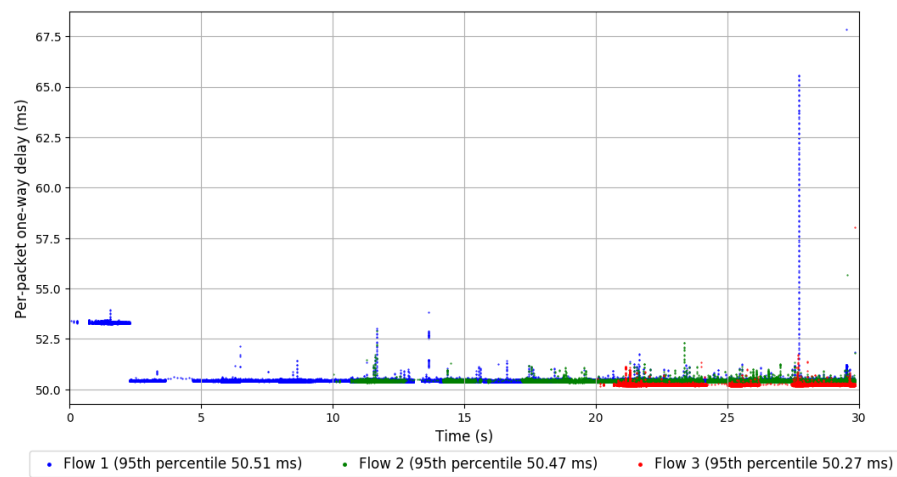
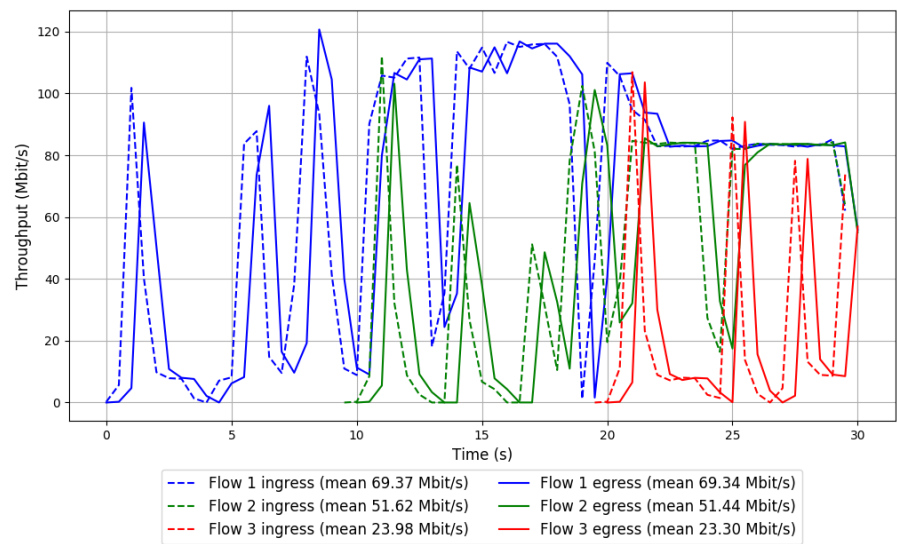
Run 5: Statistics of QUIC Cubic

Start at: 2018-06-01 23:40:06  
End at: 2018-06-01 23:40:36  
Local clock offset: 0.215 ms  
Remote clock offset: -0.268 ms

# Below is generated by plot.py at 2018-06-02 03:44:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 111.17 Mbit/s  
95th percentile per-packet one-way delay: 50.490 ms  
Loss rate: 0.78%  
-- Flow 1:  
Average throughput: 69.34 Mbit/s  
95th percentile per-packet one-way delay: 50.511 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 51.44 Mbit/s  
95th percentile per-packet one-way delay: 50.467 ms  
Loss rate: 0.84%  
-- Flow 3:  
Average throughput: 23.30 Mbit/s  
95th percentile per-packet one-way delay: 50.275 ms  
Loss rate: 3.78%



Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-06-02 00:03:01

End at: 2018-06-02 00:03:31

Local clock offset: -0.096 ms

Remote clock offset: 0.246 ms

# Below is generated by plot.py at 2018-06-02 03:44:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 99.85 Mbit/s

95th percentile per-packet one-way delay: 53.330 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 67.19 Mbit/s

95th percentile per-packet one-way delay: 53.106 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 36.19 Mbit/s

95th percentile per-packet one-way delay: 53.204 ms

Loss rate: 1.10%

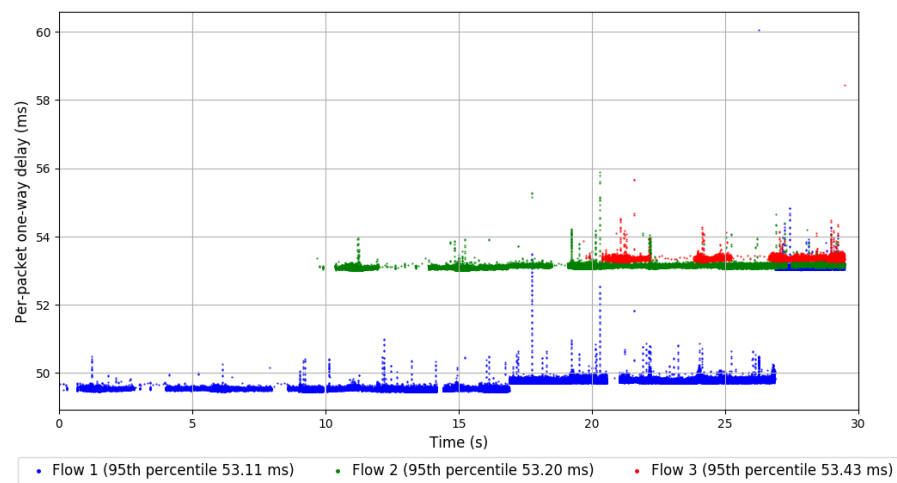
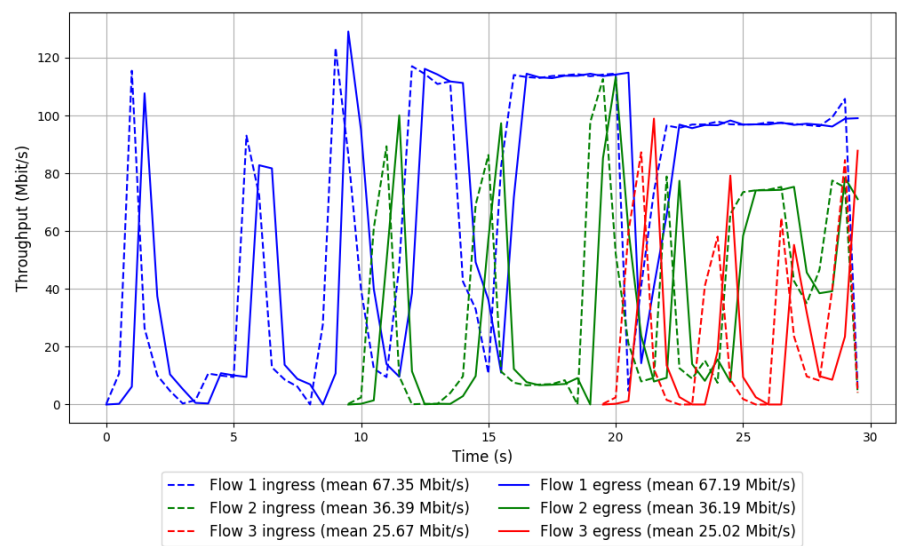
-- Flow 3:

Average throughput: 25.02 Mbit/s

95th percentile per-packet one-way delay: 53.430 ms

Loss rate: 3.54%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-06-02 00:26:06

End at: 2018-06-02 00:26:36

Local clock offset: -0.022 ms

Remote clock offset: 0.117 ms

# Below is generated by plot.py at 2018-06-02 03:44:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.68 Mbit/s

95th percentile per-packet one-way delay: 53.367 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 56.63 Mbit/s

95th percentile per-packet one-way delay: 49.758 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 43.13 Mbit/s

95th percentile per-packet one-way delay: 53.343 ms

Loss rate: 1.06%

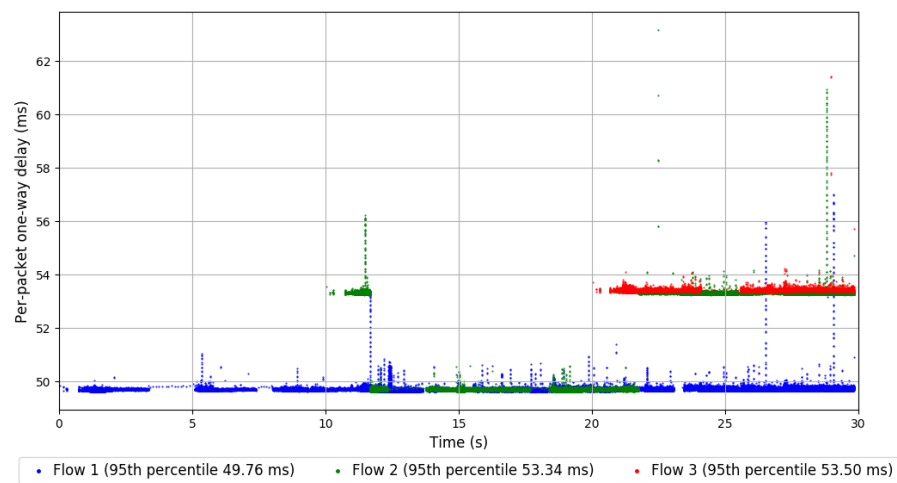
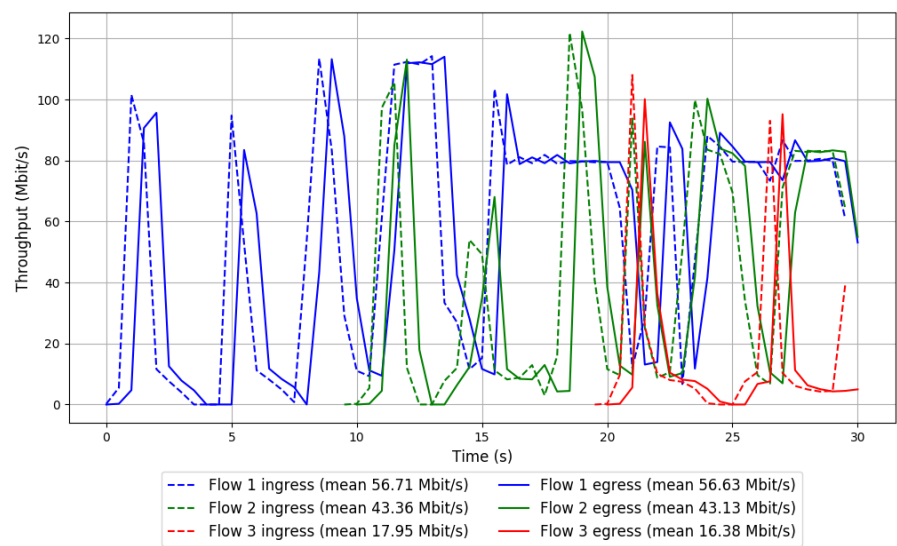
-- Flow 3:

Average throughput: 16.38 Mbit/s

95th percentile per-packet one-way delay: 53.499 ms

Loss rate: 9.74%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-06-02 00:49:10

End at: 2018-06-02 00:49:40

Local clock offset: 0.057 ms

Remote clock offset: 0.308 ms

# Below is generated by plot.py at 2018-06-02 03:44:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 100.40 Mbit/s

95th percentile per-packet one-way delay: 53.343 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 68.88 Mbit/s

95th percentile per-packet one-way delay: 53.355 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 39.28 Mbit/s

95th percentile per-packet one-way delay: 49.733 ms

Loss rate: 1.10%

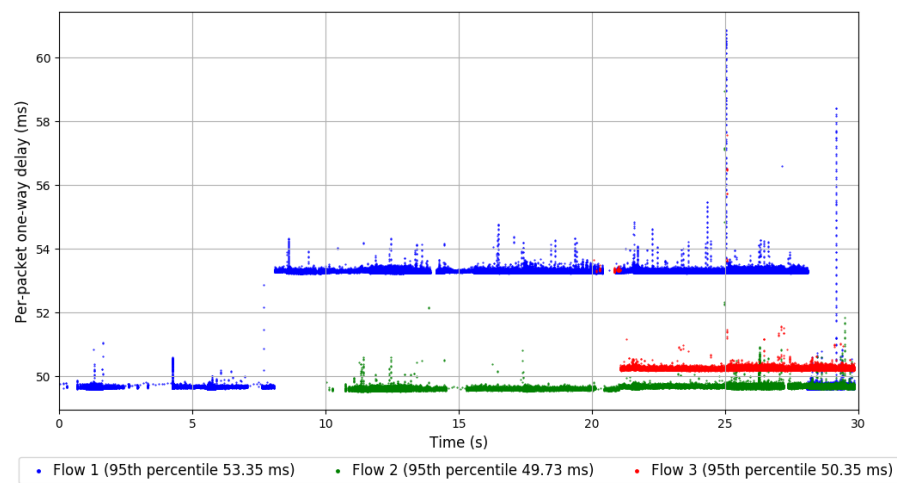
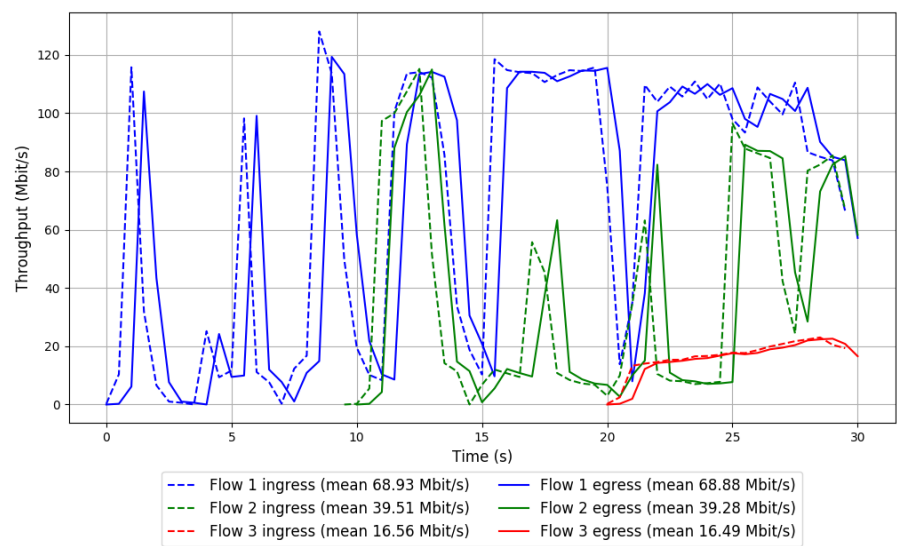
-- Flow 3:

Average throughput: 16.49 Mbit/s

95th percentile per-packet one-way delay: 50.349 ms

Loss rate: 1.51%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-06-02 01:11:52

End at: 2018-06-02 01:12:22

Local clock offset: 0.018 ms

Remote clock offset: 0.087 ms

# Below is generated by plot.py at 2018-06-02 03:44:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 100.34 Mbit/s

95th percentile per-packet one-way delay: 53.435 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 64.47 Mbit/s

95th percentile per-packet one-way delay: 53.317 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 45.75 Mbit/s

95th percentile per-packet one-way delay: 53.479 ms

Loss rate: 0.97%

-- Flow 3:

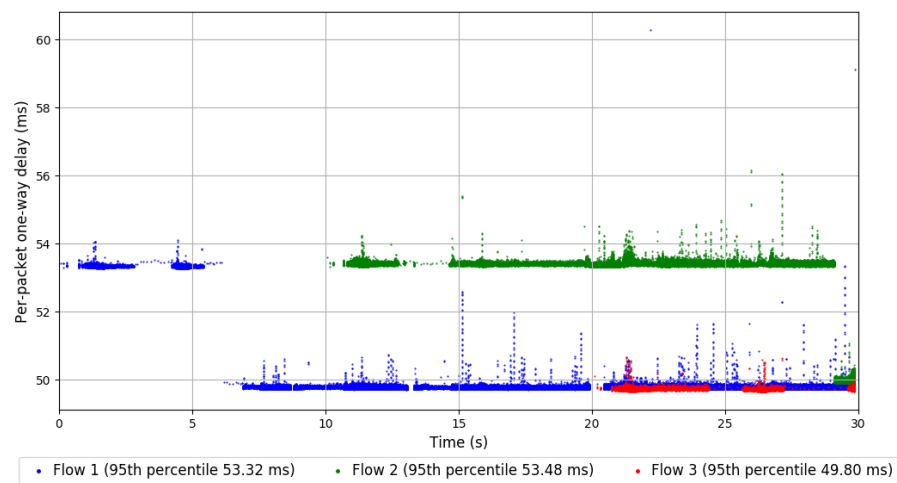
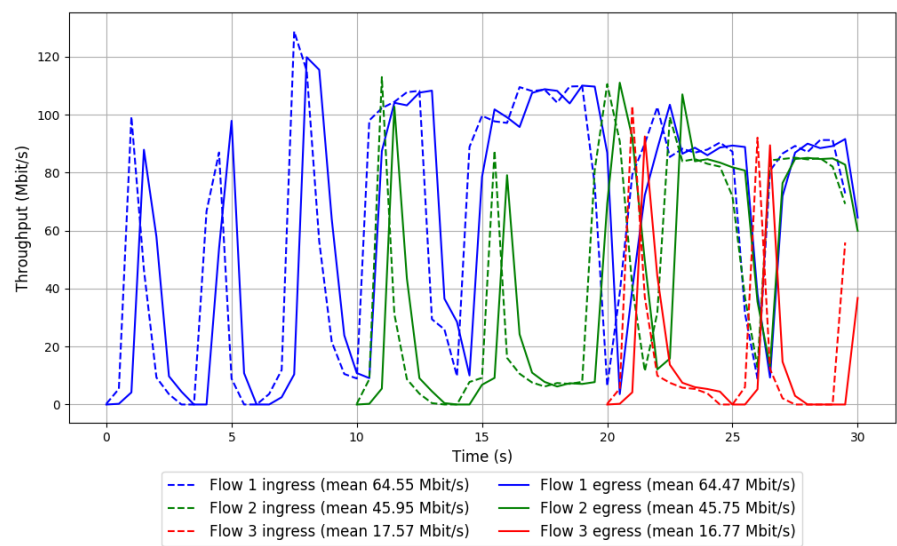
Average throughput: 16.77 Mbit/s

95th percentile per-packet one-way delay: 49.805 ms

Loss rate: 5.52%



Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-06-02 01:34:47

End at: 2018-06-02 01:35:17

Local clock offset: 0.545 ms

Remote clock offset: 0.299 ms

# Below is generated by plot.py at 2018-06-02 03:44:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 109.95 Mbit/s

95th percentile per-packet one-way delay: 53.539 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 61.70 Mbit/s

95th percentile per-packet one-way delay: 53.547 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 37.86 Mbit/s

95th percentile per-packet one-way delay: 50.112 ms

Loss rate: 1.19%

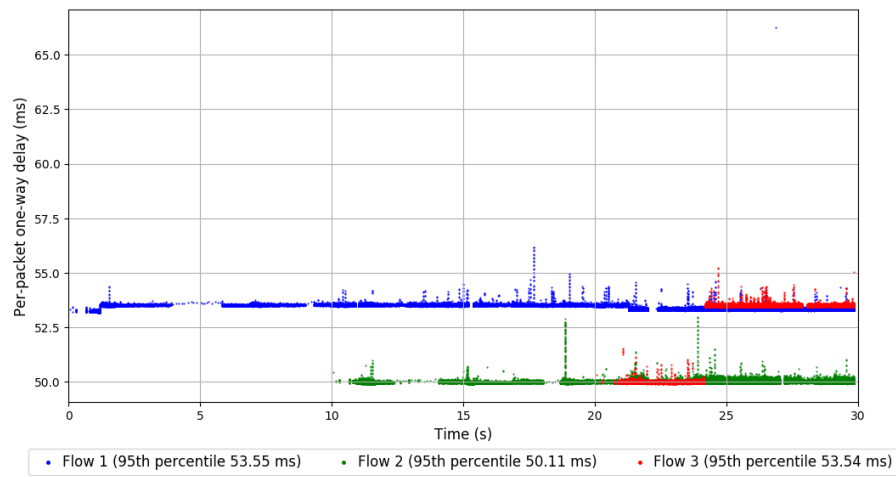
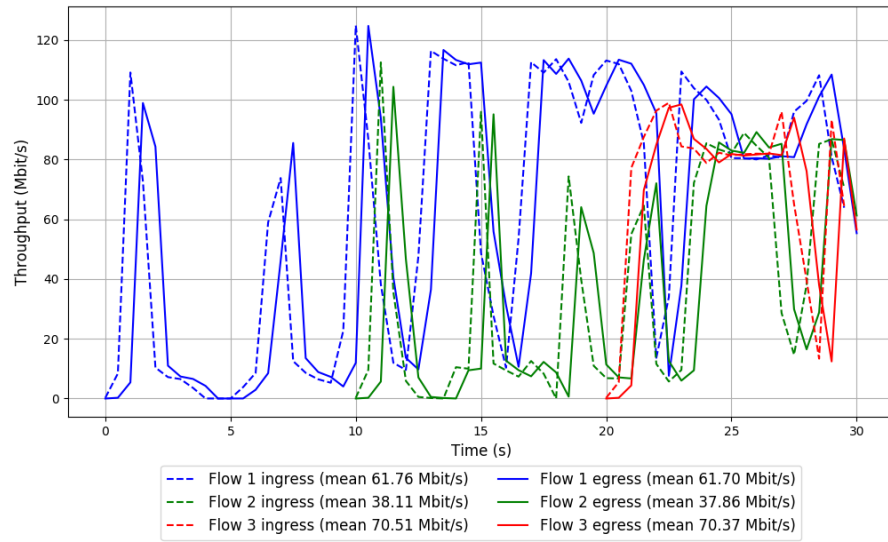
-- Flow 3:

Average throughput: 70.37 Mbit/s

95th percentile per-packet one-way delay: 53.542 ms

Loss rate: 1.19%

# Run 10: Report of QUIC Cubic — Data Link

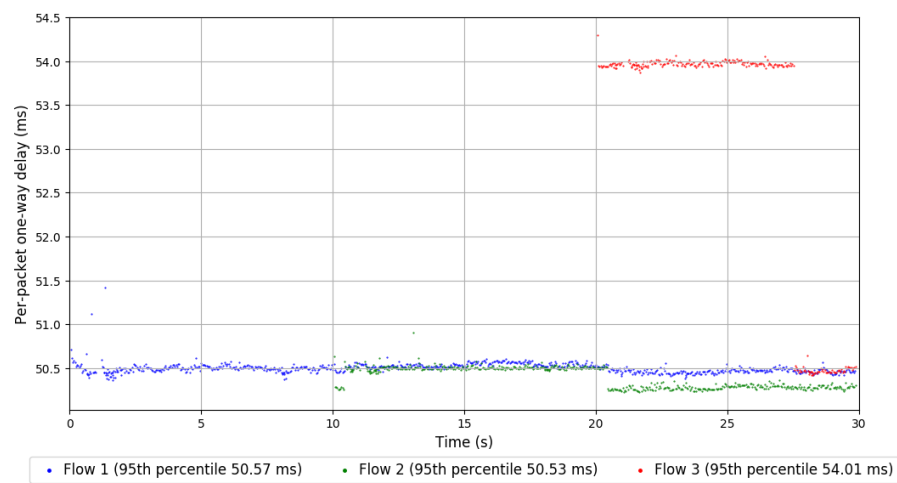
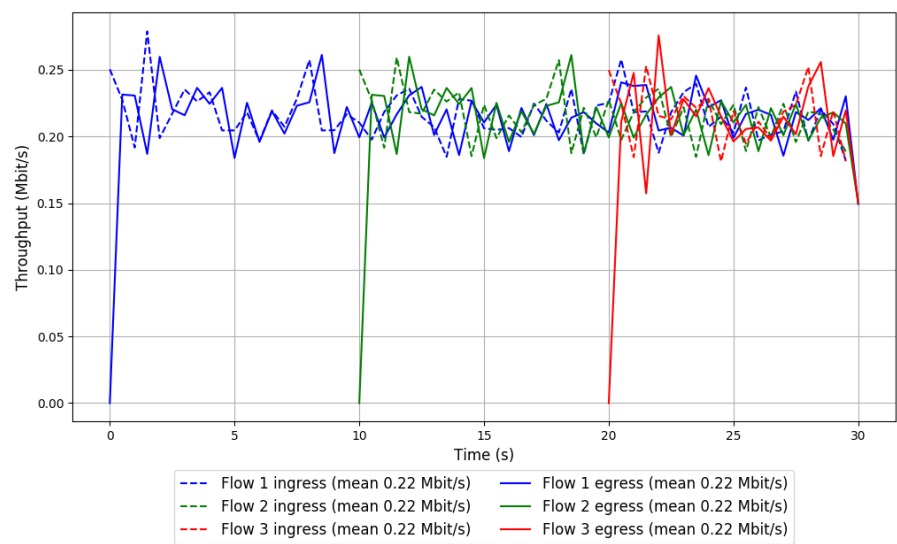


```
Run 1: Statistics of SReAM

Start at: 2018-06-01 22:18:30
End at: 2018-06-01 22:19:00
Local clock offset: 0.706 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2018-06-02 03:44:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.974 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.573 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.528 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 54.012 ms
Loss rate: 1.10%
```

Run 1: Report of SReAM — Data Link

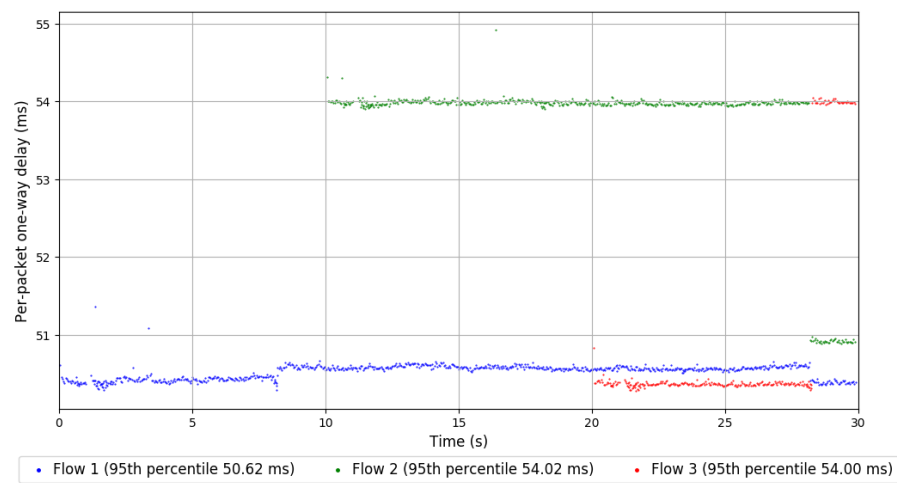
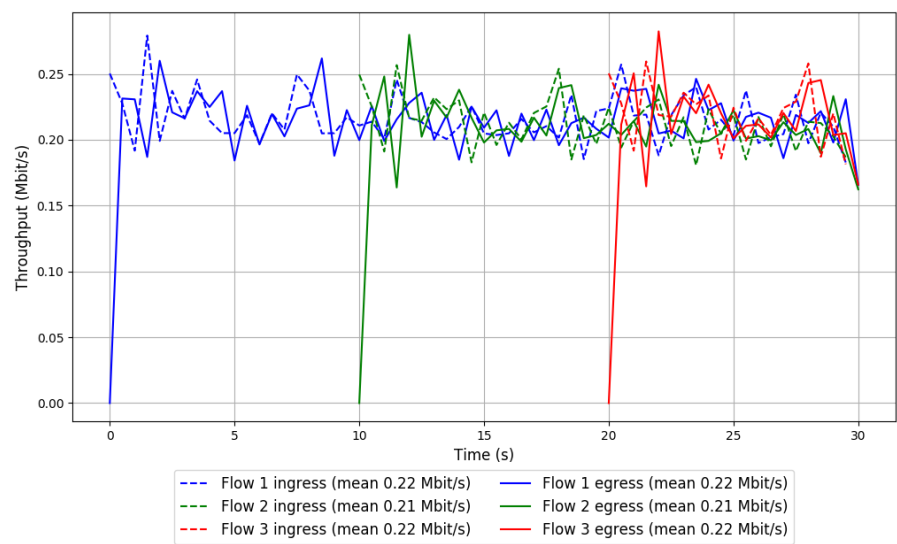


Run 2: Statistics of SReAM

Start at: 2018-06-01 22:41:40  
End at: 2018-06-01 22:42:10  
Local clock offset: 0.704 ms  
Remote clock offset: -0.165 ms

# Below is generated by plot.py at 2018-06-02 03:44:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 54.007 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.623 ms  
Loss rate: 0.26%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 54.025 ms  
Loss rate: 0.62%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 53.997 ms  
Loss rate: 1.08%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-06-01 23:04:42

End at: 2018-06-01 23:05:12

Local clock offset: 0.612 ms

Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2018-06-02 03:44:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.230 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.246 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.060 ms

Loss rate: 0.62%

-- Flow 3:

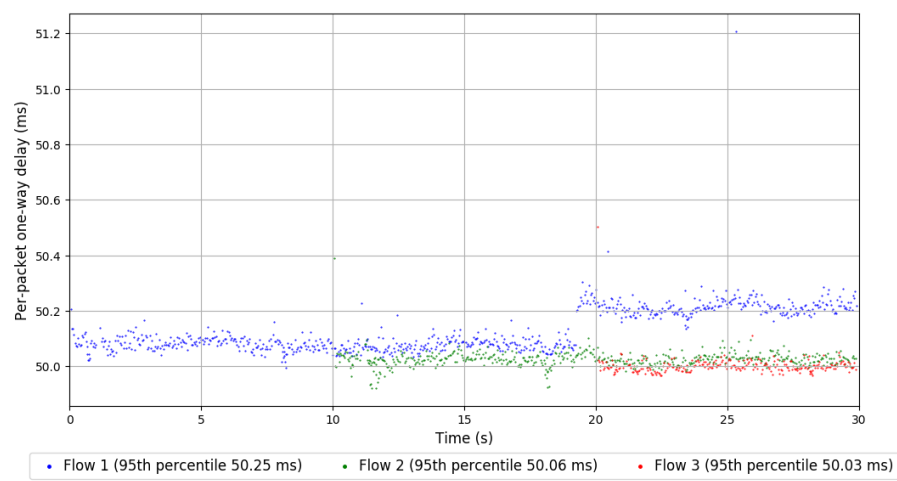
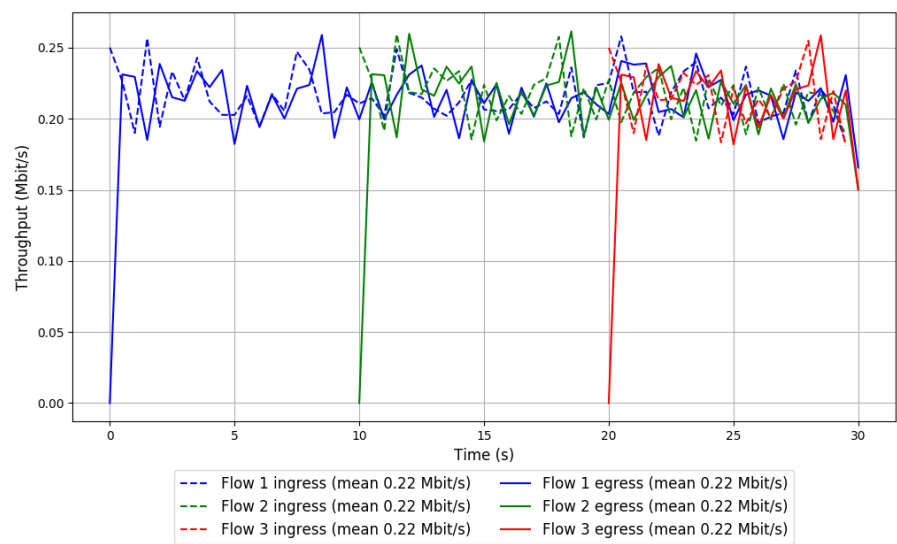
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.034 ms

Loss rate: 1.09%



Run 3: Report of SReAM — Data Link

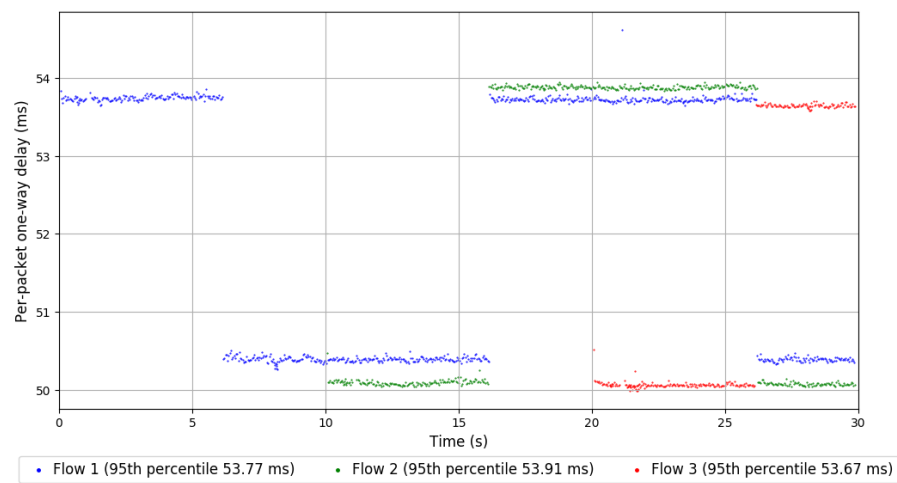
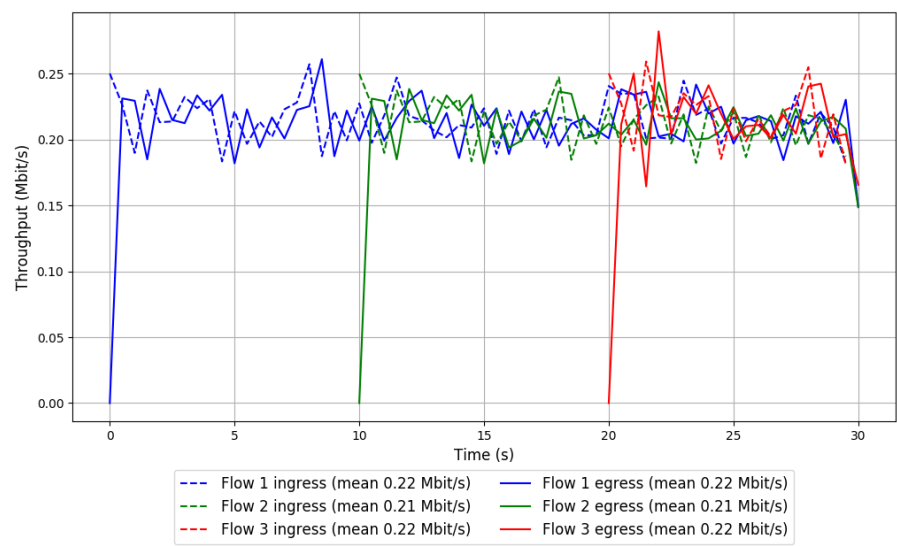


Run 4: Statistics of SReAM

Start at: 2018-06-01 23:27:52  
End at: 2018-06-01 23:28:22  
Local clock offset: 0.341 ms  
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2018-06-02 03:44:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 53.893 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 53.773 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.909 ms  
Loss rate: 0.62%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 53.666 ms  
Loss rate: 1.08%

Run 4: Report of SReAM — Data Link

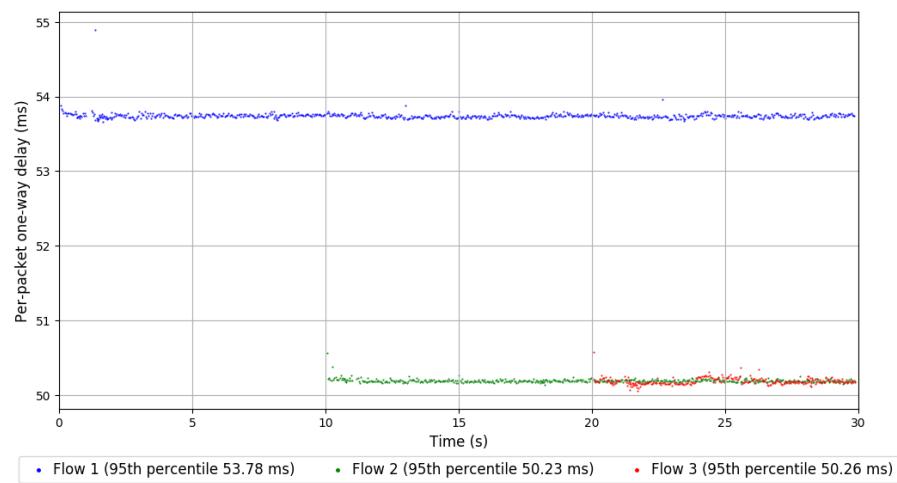
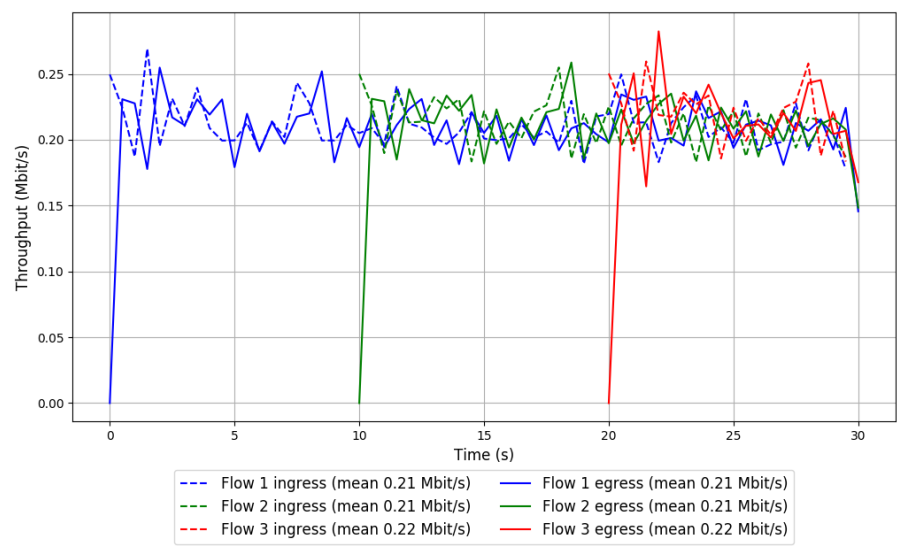


Run 5: Statistics of SReAM

Start at: 2018-06-01 23:50:37  
End at: 2018-06-01 23:51:07  
Local clock offset: 0.009 ms  
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2018-06-02 03:44:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 53.772 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.782 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 50.228 ms  
Loss rate: 0.62%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.256 ms  
Loss rate: 1.09%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-06-02 00:13:32

End at: 2018-06-02 00:14:02

Local clock offset: -0.053 ms

Remote clock offset: 0.118 ms

# Below is generated by plot.py at 2018-06-02 03:44:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.573 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.583 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.413 ms

Loss rate: 0.62%

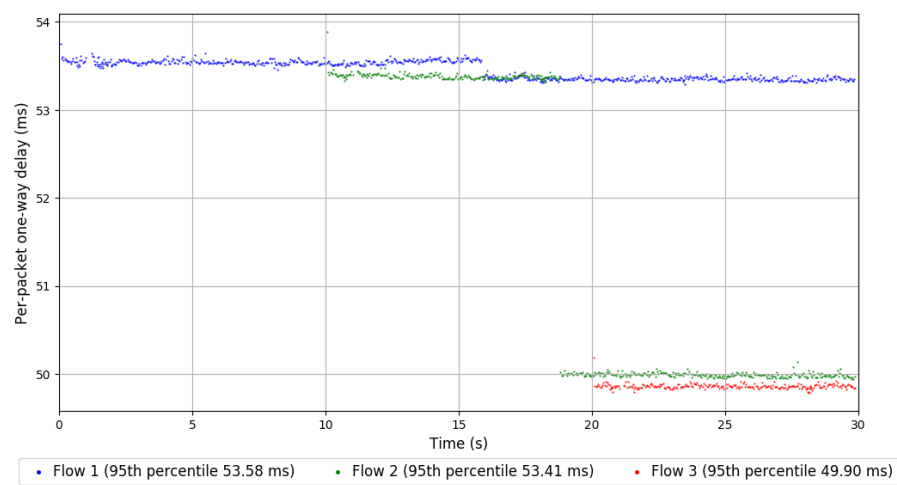
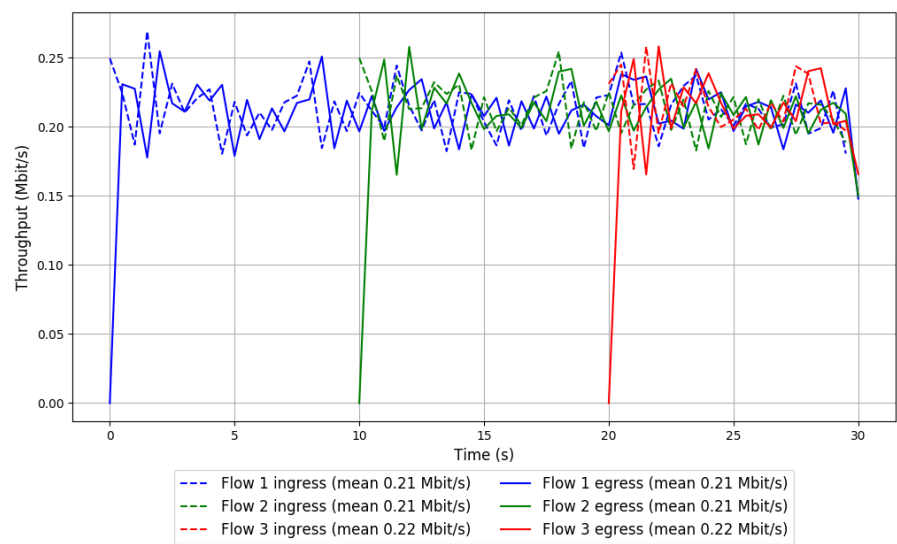
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.904 ms

Loss rate: 1.09%

Run 6: Report of SReAM — Data Link



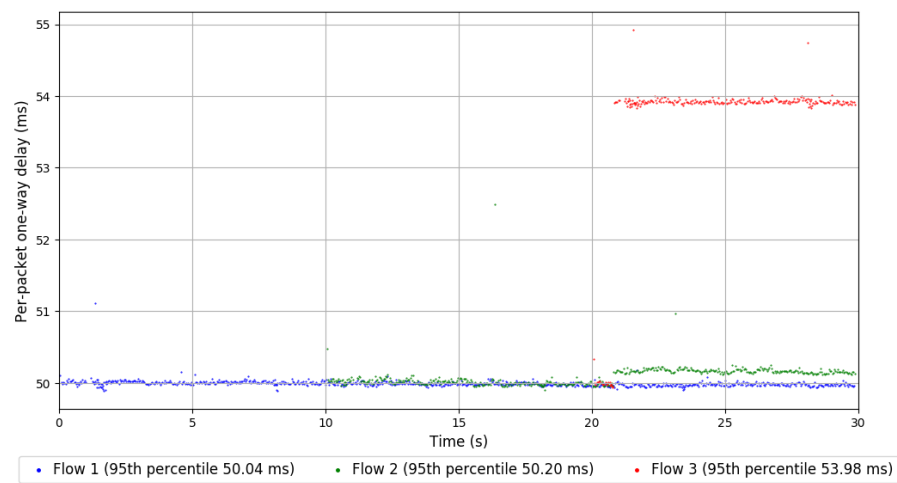
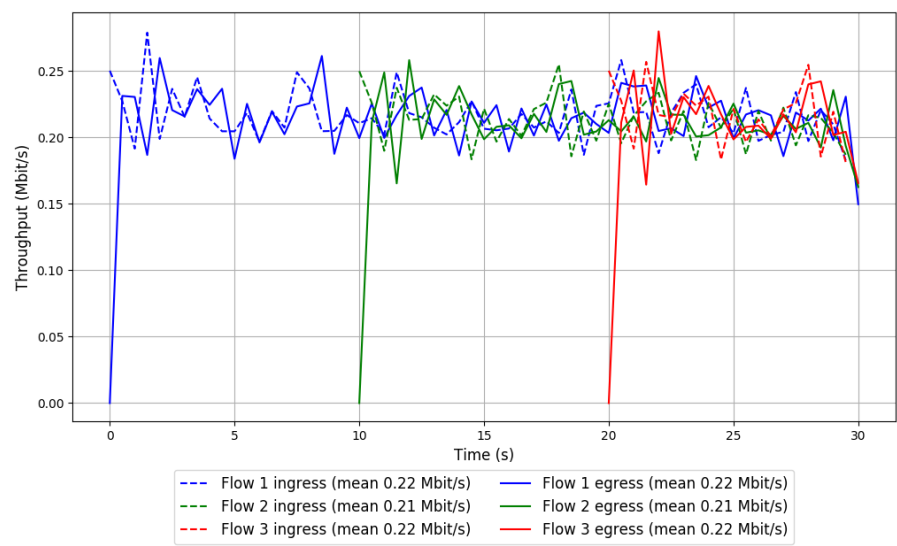
Run 7: Statistics of SReAM

Start at: 2018-06-02 00:36:50  
End at: 2018-06-02 00:37:20  
Local clock offset: 0.041 ms  
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2018-06-02 03:44:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 53.929 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.038 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 50.204 ms  
Loss rate: 0.62%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 53.980 ms  
Loss rate: 1.08%



Run 7: Report of SReAM — Data Link

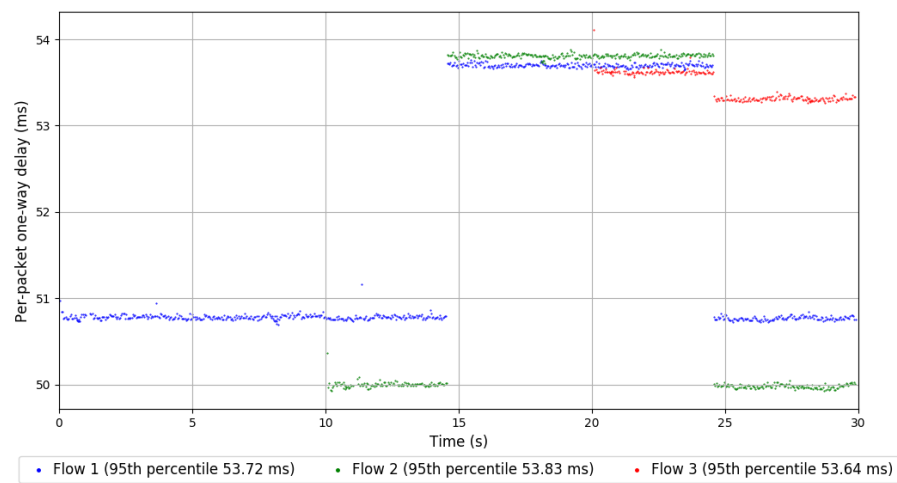
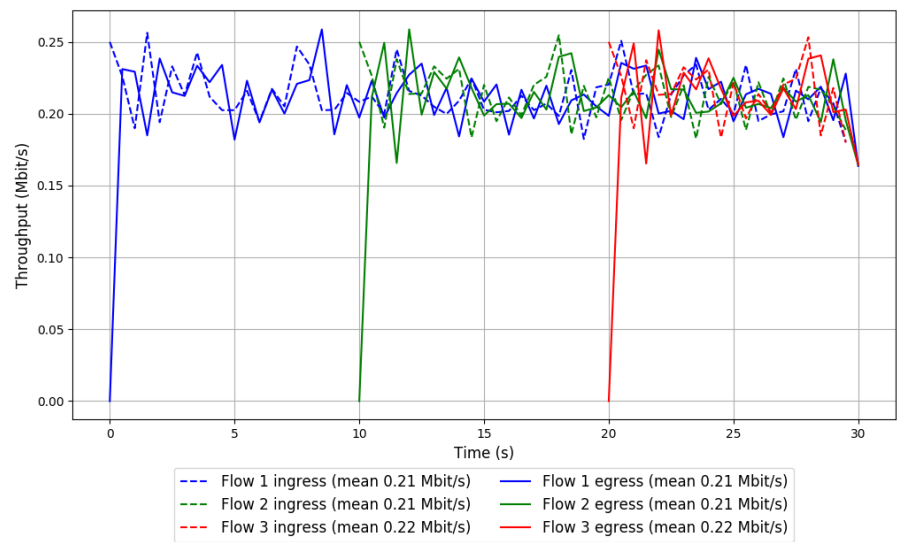


Run 8: Statistics of SReAM

Start at: 2018-06-02 00:59:33  
End at: 2018-06-02 01:00:03  
Local clock offset: -0.1 ms  
Remote clock offset: -0.131 ms

# Below is generated by plot.py at 2018-06-02 03:44:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 53.818 ms  
Loss rate: 0.52%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.720 ms  
Loss rate: 0.26%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.832 ms  
Loss rate: 0.62%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 53.637 ms  
Loss rate: 1.09%

Run 8: Report of SReAM — Data Link

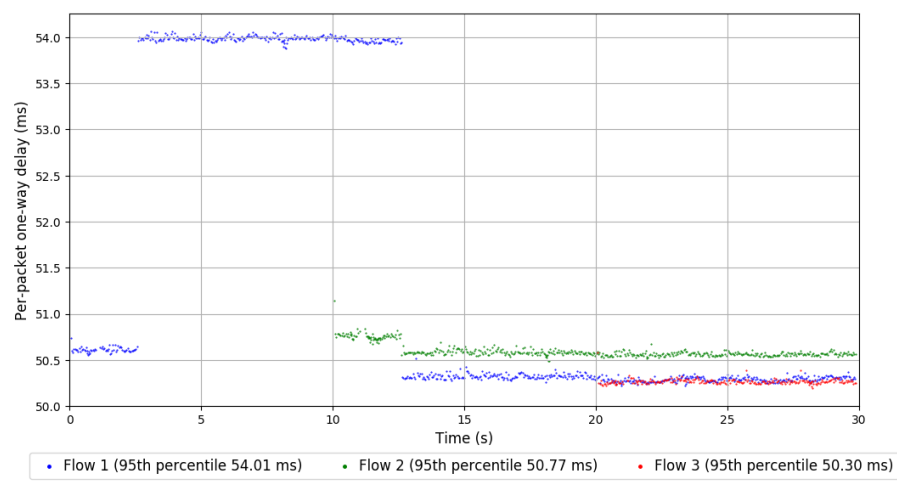
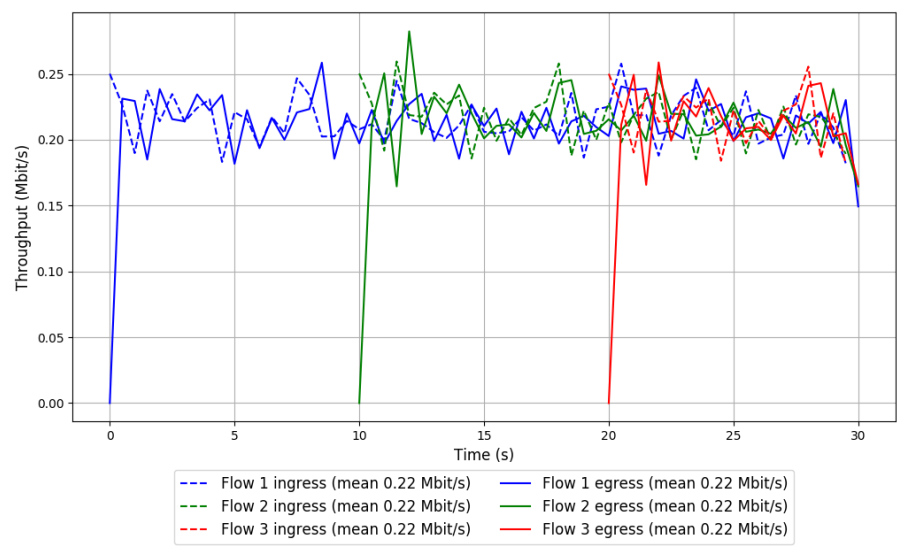


Run 9: Statistics of SReAM

Start at: 2018-06-02 01:22:18  
End at: 2018-06-02 01:22:48  
Local clock offset: 0.389 ms  
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2018-06-02 03:44:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 53.996 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 54.009 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.768 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.305 ms  
Loss rate: 1.09%

Run 9: Report of SReAM — Data Link

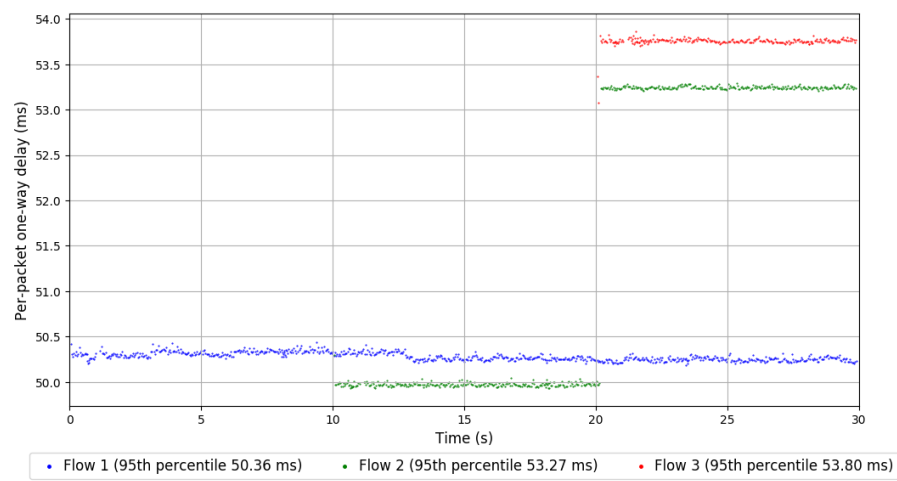
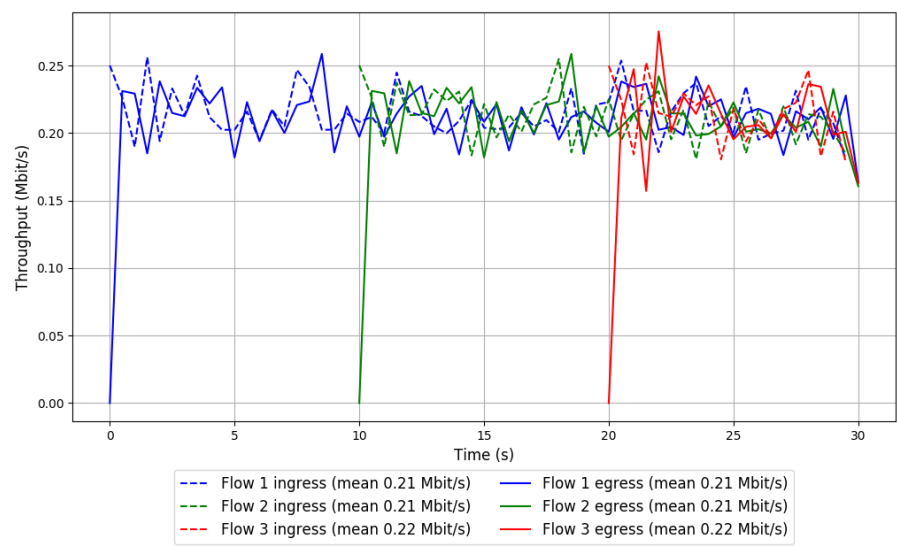


Run 10: Statistics of SReAM

Start at: 2018-06-02 01:45:38  
End at: 2018-06-02 01:46:08  
Local clock offset: -0.072 ms  
Remote clock offset: -0.171 ms

# Below is generated by plot.py at 2018-06-02 03:44:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 53.767 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 50.356 ms  
Loss rate: 0.26%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.266 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 53.796 ms  
Loss rate: 1.08%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-06-01 22:14:14

End at: 2018-06-01 22:14:44

Local clock offset: 0.448 ms

Remote clock offset: -0.28 ms

# Below is generated by plot.py at 2018-06-02 03:44:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 14.47 Mbit/s

95th percentile per-packet one-way delay: 51.431 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 7.47 Mbit/s

95th percentile per-packet one-way delay: 51.118 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 53.813 ms

Loss rate: 0.64%

-- Flow 3:

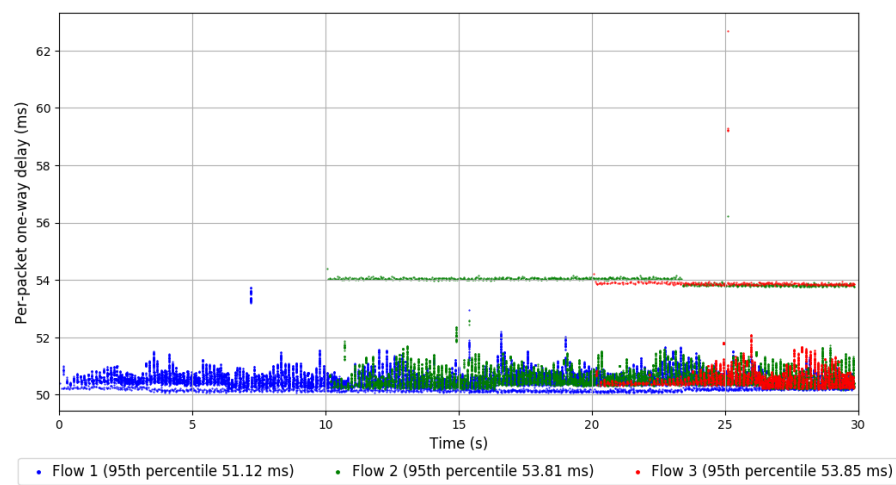
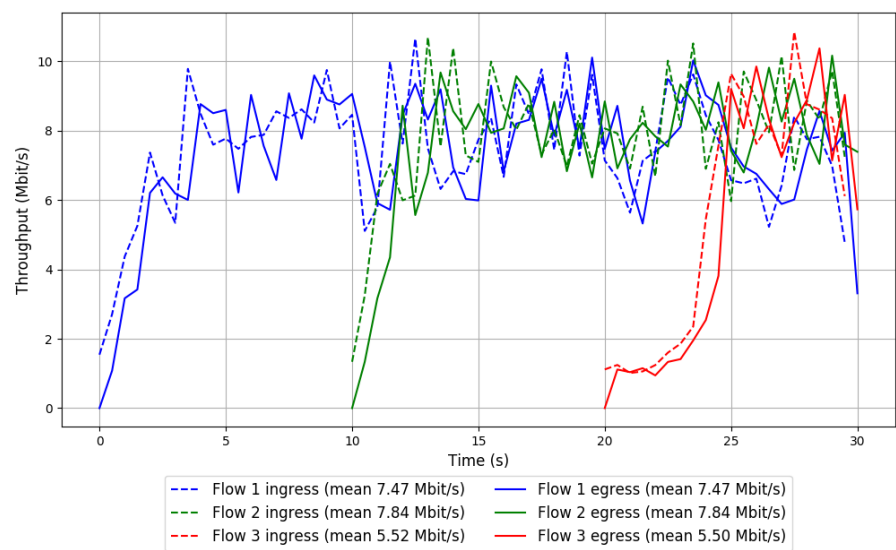
Average throughput: 5.50 Mbit/s

95th percentile per-packet one-way delay: 53.846 ms

Loss rate: 1.40%



Run 1: Report of Sprout — Data Link

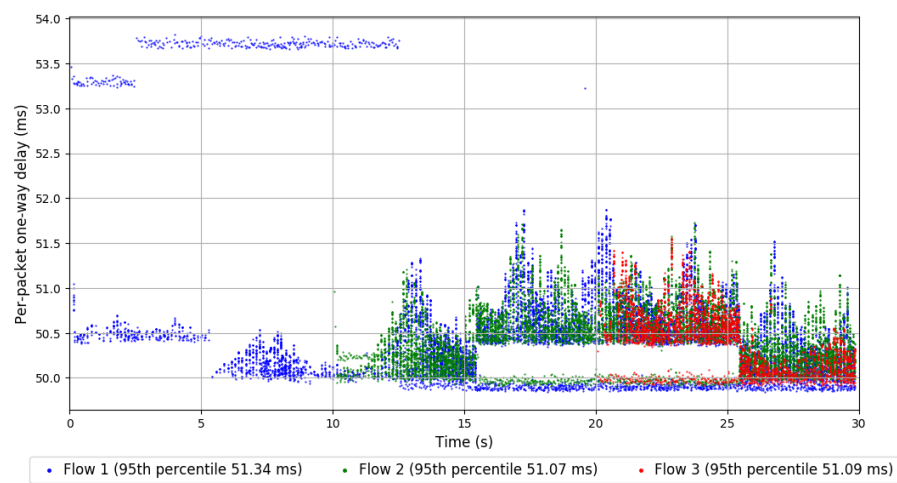
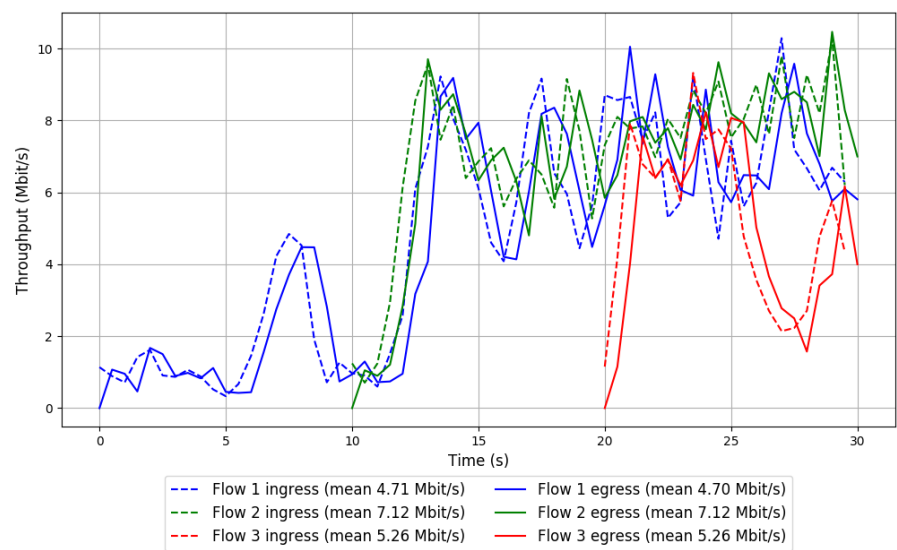


Run 2: Statistics of Sprout

Start at: 2018-06-01 22:37:25  
End at: 2018-06-01 22:37:55  
Local clock offset: 0.487 ms  
Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2018-06-02 03:44:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 11.15 Mbit/s  
95th percentile per-packet one-way delay: 51.156 ms  
Loss rate: 0.60%  
-- Flow 1:  
Average throughput: 4.70 Mbit/s  
95th percentile per-packet one-way delay: 51.335 ms  
Loss rate: 0.65%  
-- Flow 2:  
Average throughput: 7.12 Mbit/s  
95th percentile per-packet one-way delay: 51.067 ms  
Loss rate: 0.42%  
-- Flow 3:  
Average throughput: 5.26 Mbit/s  
95th percentile per-packet one-way delay: 51.095 ms  
Loss rate: 0.96%

Run 2: Report of Sprout — Data Link

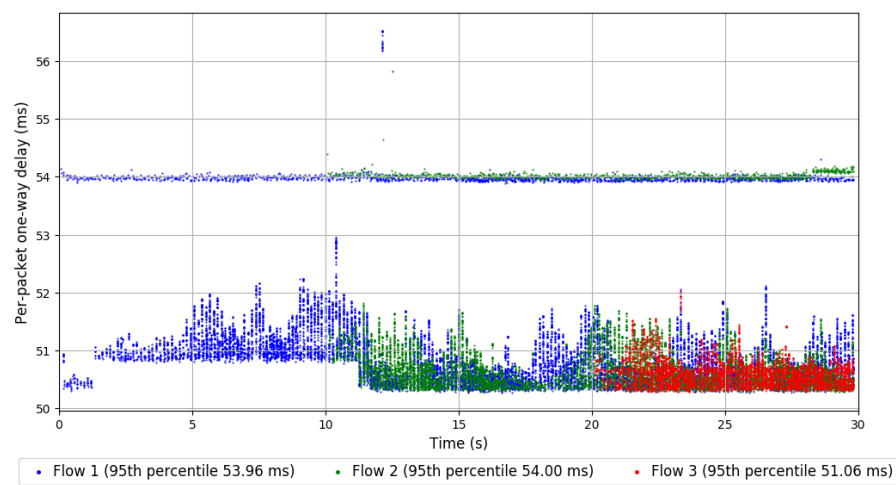
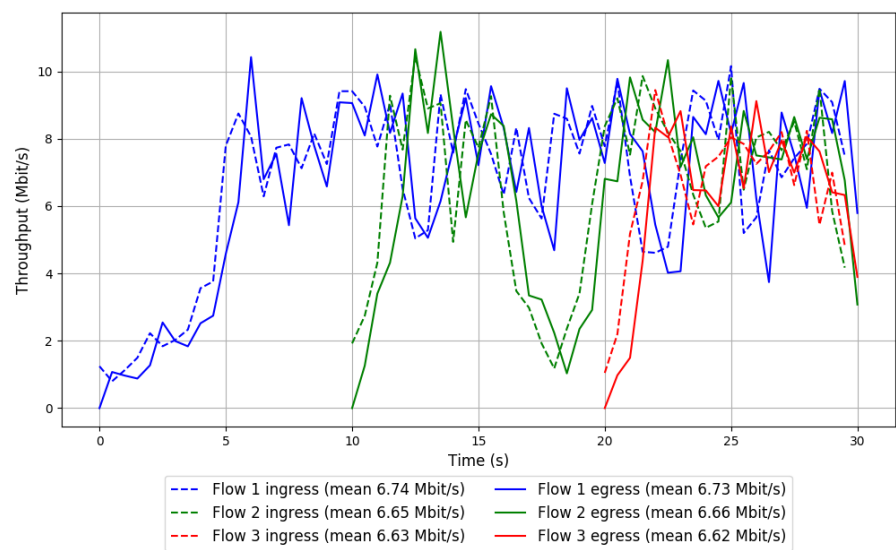


### Run 3: Statistics of Sprout

Start at: 2018-06-01 23:00:30  
End at: 2018-06-01 23:01:00  
Local clock offset: 0.613 ms  
Remote clock offset: -0.348 ms

```
# Below is generated by plot.py at 2018-06-02 03:44:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.32 Mbit/s
95th percentile per-packet one-way delay: 53.959 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 6.73 Mbit/s
95th percentile per-packet one-way delay: 53.959 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 6.66 Mbit/s
95th percentile per-packet one-way delay: 54.000 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 6.62 Mbit/s
95th percentile per-packet one-way delay: 51.065 ms
Loss rate: 1.22%
```

Run 3: Report of Sprout — Data Link

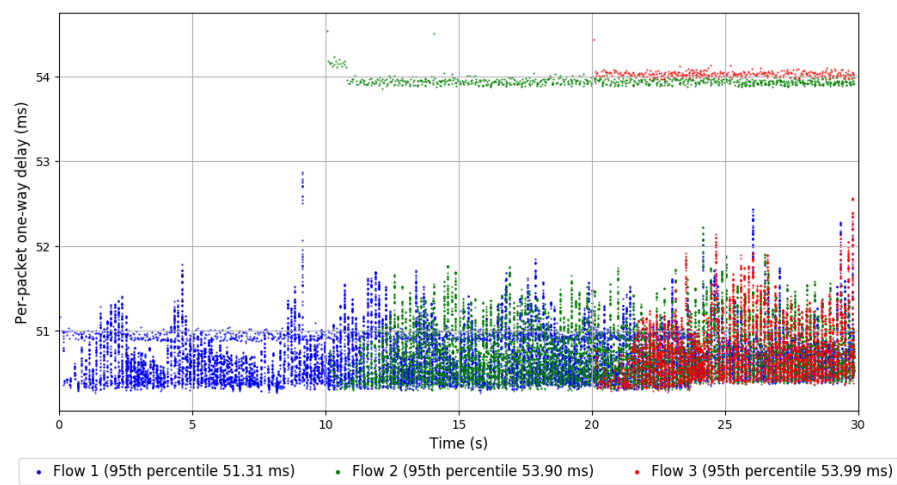
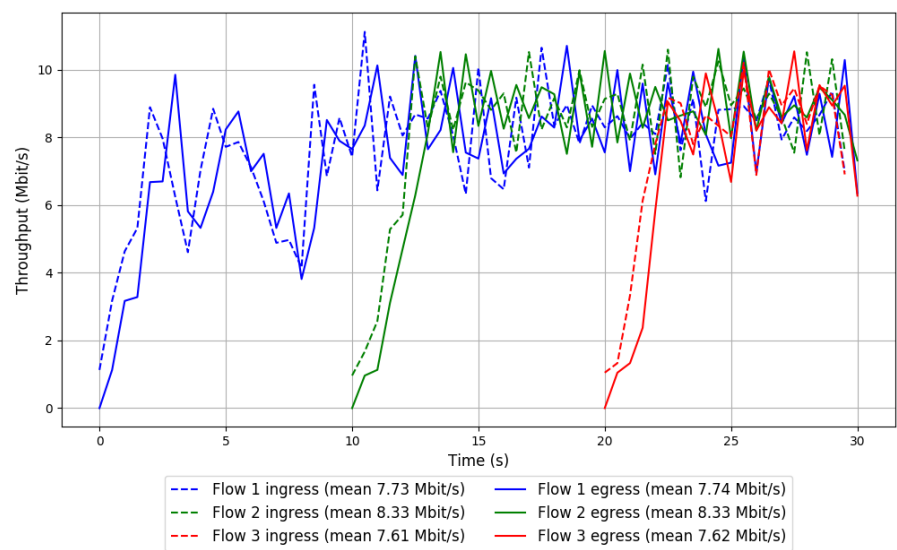


#### Run 4: Statistics of Sprout

Start at: 2018-06-01 23:23:37  
End at: 2018-06-01 23:24:07  
Local clock offset: 0.736 ms  
Remote clock offset: -0.214 ms

```
# Below is generated by plot.py at 2018-06-02 03:44:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.76 Mbit/s
95th percentile per-packet one-way delay: 51.547 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 7.74 Mbit/s
95th percentile per-packet one-way delay: 51.308 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 8.33 Mbit/s
95th percentile per-packet one-way delay: 53.898 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 7.62 Mbit/s
95th percentile per-packet one-way delay: 53.986 ms
Loss rate: 1.08%
```

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-06-01 23:46:28

End at: 2018-06-01 23:46:58

Local clock offset: -0.122 ms

Remote clock offset: 0.032 ms

# Below is generated by plot.py at 2018-06-02 03:44:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 14.25 Mbit/s

95th percentile per-packet one-way delay: 50.865 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 7.18 Mbit/s

95th percentile per-packet one-way delay: 51.225 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 7.22 Mbit/s

95th percentile per-packet one-way delay: 50.864 ms

Loss rate: 0.70%

-- Flow 3:

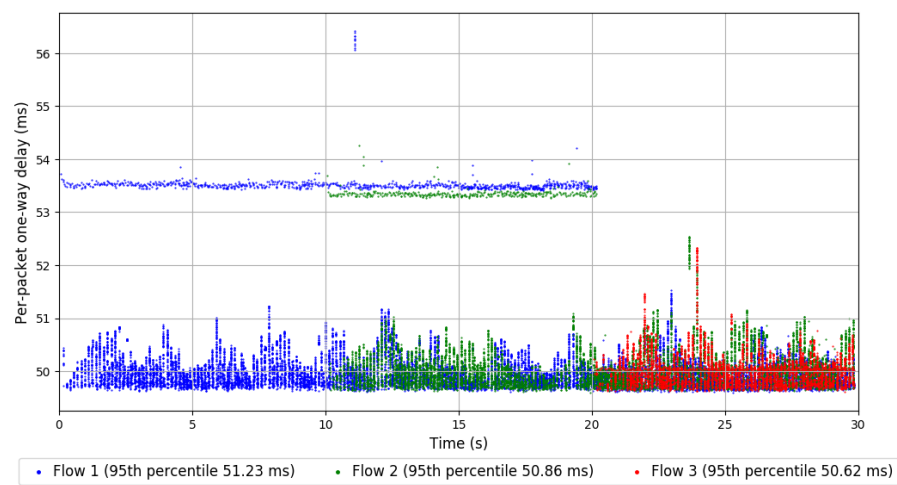
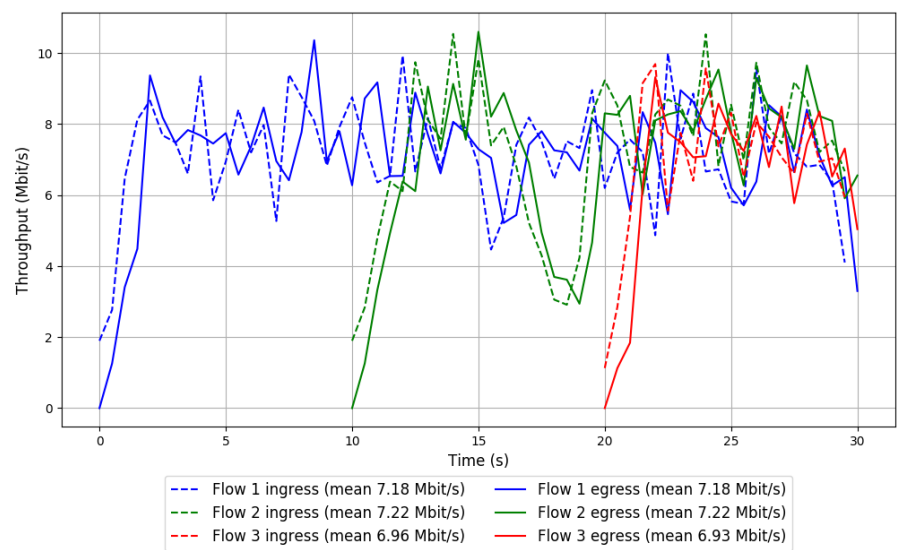
Average throughput: 6.93 Mbit/s

95th percentile per-packet one-way delay: 50.619 ms

Loss rate: 1.37%



Run 5: Report of Sprout — Data Link

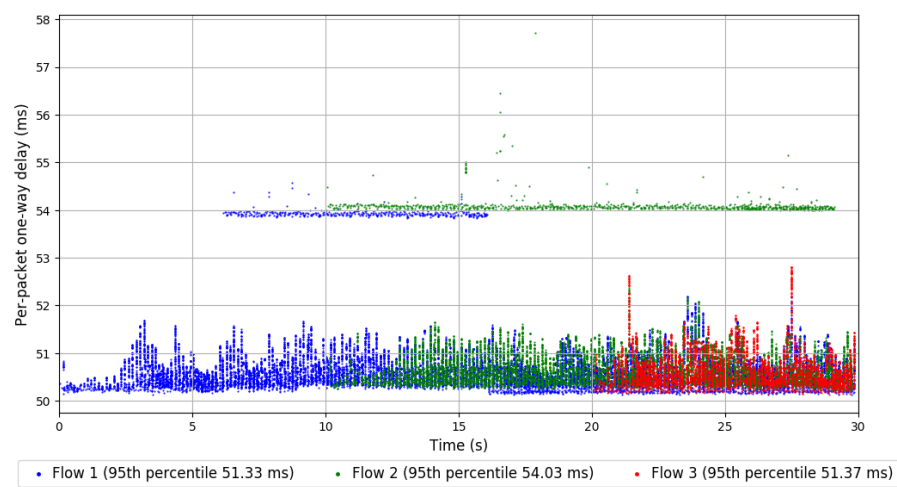
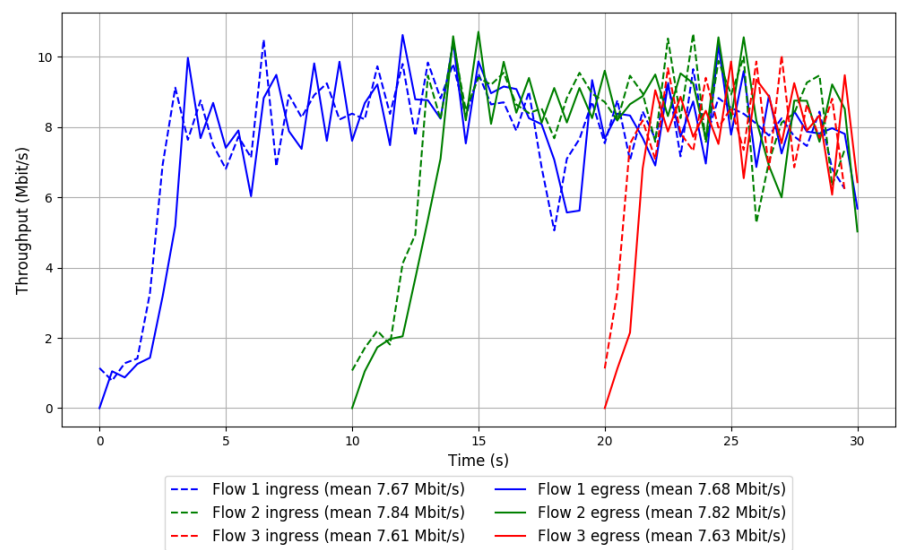


Run 6: Statistics of Sprout

Start at: 2018-06-02 00:09:22  
End at: 2018-06-02 00:09:52  
Local clock offset: 0.289 ms  
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2018-06-02 03:44:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 15.36 Mbit/s  
95th percentile per-packet one-way delay: 51.460 ms  
Loss rate: 0.42%  
-- Flow 1:  
Average throughput: 7.68 Mbit/s  
95th percentile per-packet one-way delay: 51.334 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 7.82 Mbit/s  
95th percentile per-packet one-way delay: 54.030 ms  
Loss rate: 0.75%  
-- Flow 3:  
Average throughput: 7.63 Mbit/s  
95th percentile per-packet one-way delay: 51.365 ms  
Loss rate: 0.66%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-06-02 00:32:37

End at: 2018-06-02 00:33:07

Local clock offset: 0.152 ms

Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2018-06-02 03:44:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 13.30 Mbit/s

95th percentile per-packet one-way delay: 51.561 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 53.699 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 5.31 Mbit/s

95th percentile per-packet one-way delay: 51.141 ms

Loss rate: 0.34%

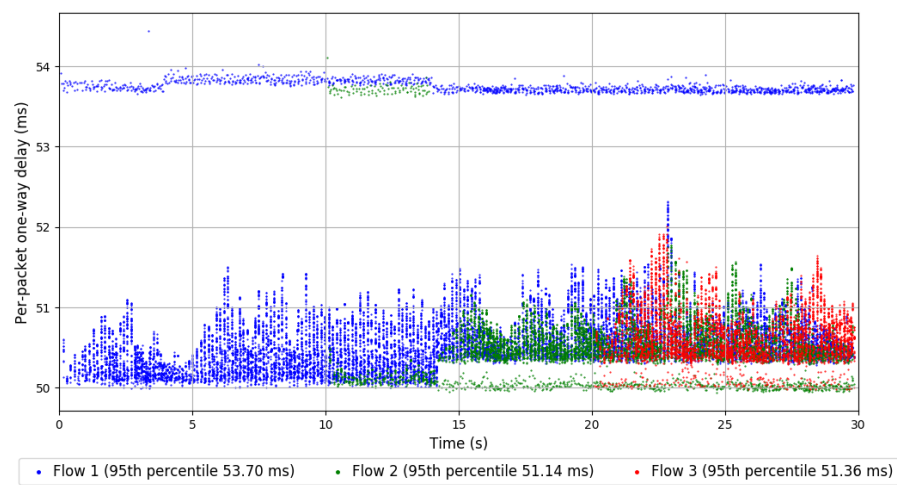
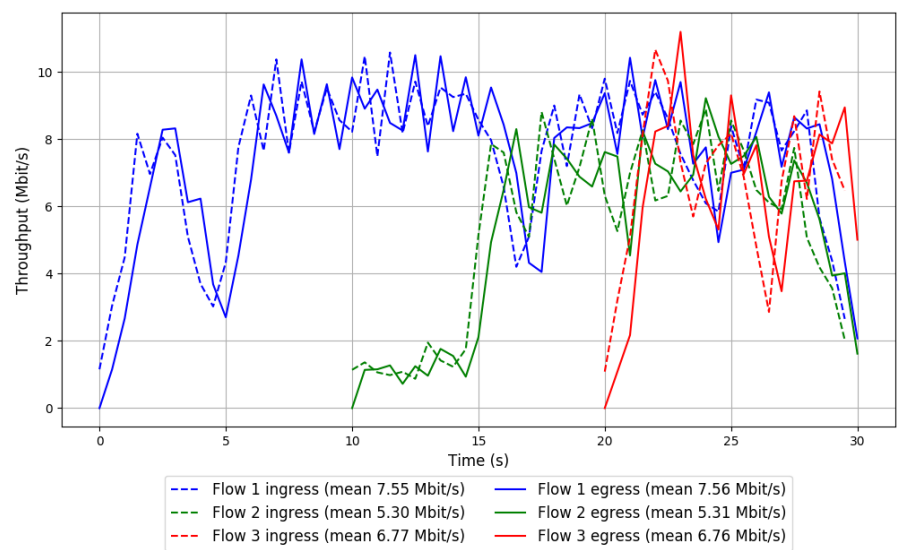
-- Flow 3:

Average throughput: 6.76 Mbit/s

95th percentile per-packet one-way delay: 51.359 ms

Loss rate: 1.09%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-06-02 00:55:24

End at: 2018-06-02 00:55:54

Local clock offset: -0.06 ms

Remote clock offset: 0.095 ms

# Below is generated by plot.py at 2018-06-02 03:44:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 13.10 Mbit/s

95th percentile per-packet one-way delay: 51.111 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 7.23 Mbit/s

95th percentile per-packet one-way delay: 50.870 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 5.38 Mbit/s

95th percentile per-packet one-way delay: 53.460 ms

Loss rate: 0.22%

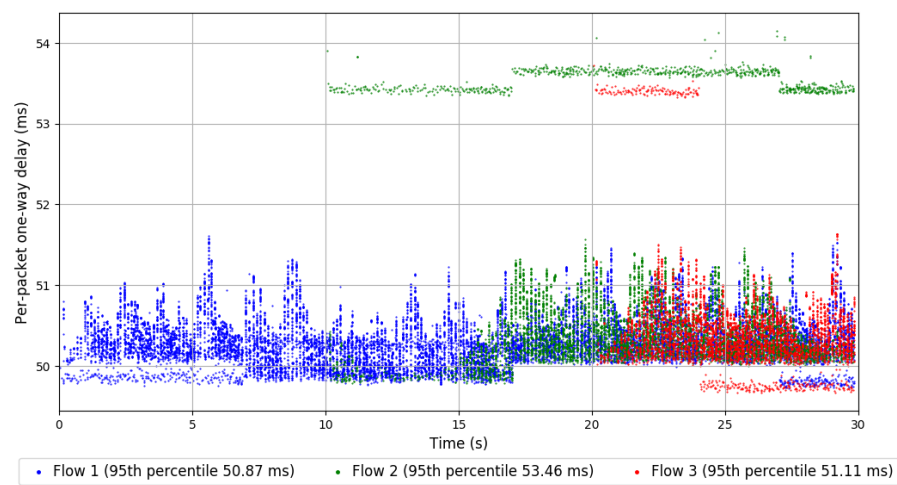
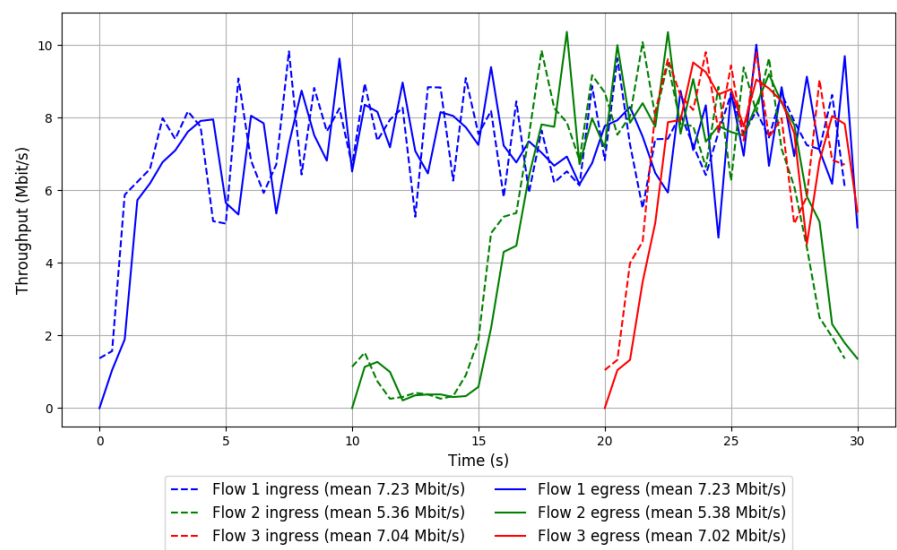
-- Flow 3:

Average throughput: 7.02 Mbit/s

95th percentile per-packet one-way delay: 51.111 ms

Loss rate: 0.93%

Run 8: Report of Sprout — Data Link



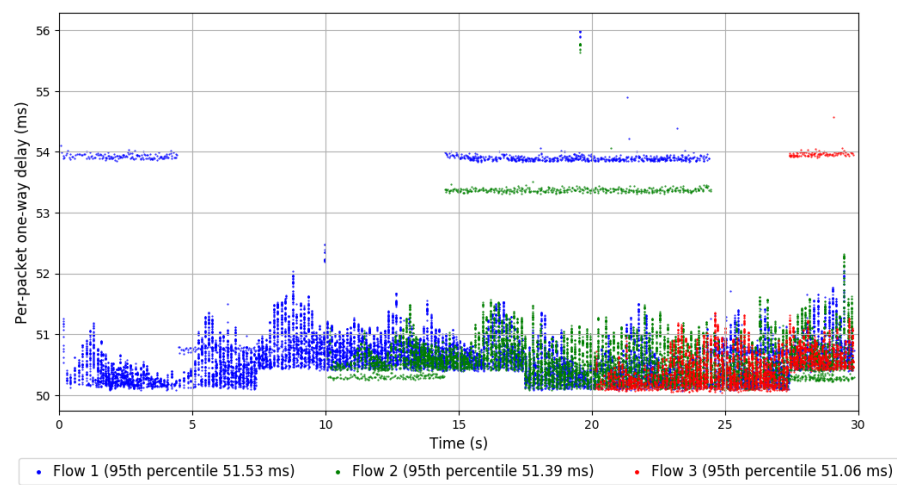
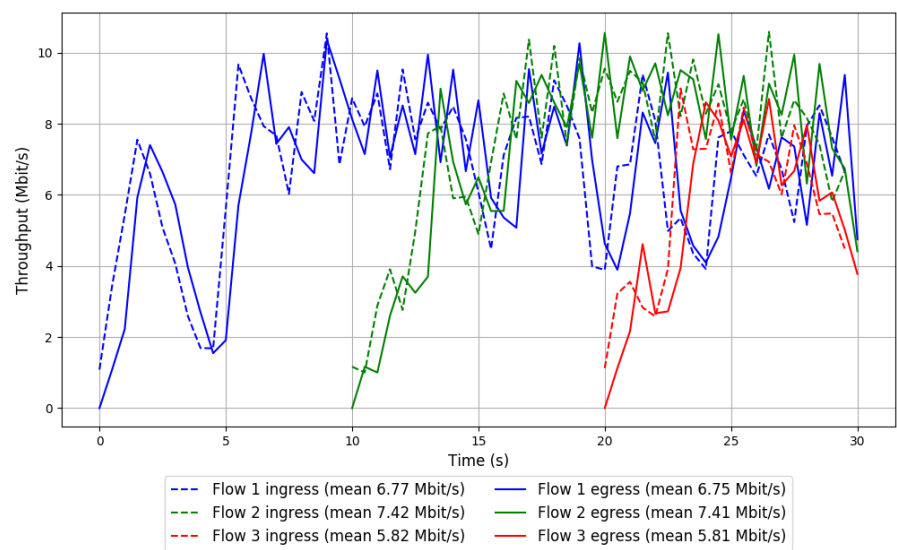
Run 9: Statistics of Sprout

Start at: 2018-06-02 01:18:13  
End at: 2018-06-02 01:18:44  
Local clock offset: 0.493 ms  
Remote clock offset: 0.16 ms

# Below is generated by plot.py at 2018-06-02 03:44:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 13.57 Mbit/s  
95th percentile per-packet one-way delay: 51.428 ms  
Loss rate: 0.74%  
-- Flow 1:  
Average throughput: 6.75 Mbit/s  
95th percentile per-packet one-way delay: 51.534 ms  
Loss rate: 0.53%  
-- Flow 2:  
Average throughput: 7.41 Mbit/s  
95th percentile per-packet one-way delay: 51.391 ms  
Loss rate: 0.77%  
-- Flow 3:  
Average throughput: 5.81 Mbit/s  
95th percentile per-packet one-way delay: 51.062 ms  
Loss rate: 1.40%



Run 9: Report of Sprout — Data Link

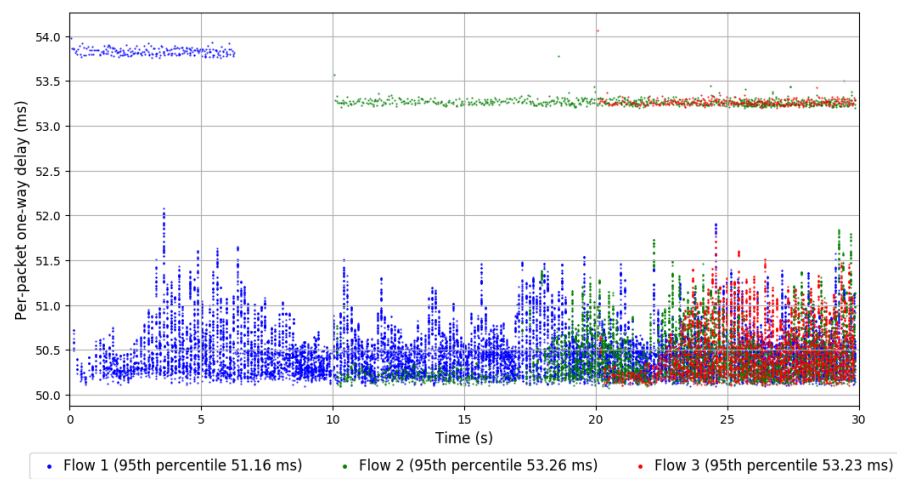
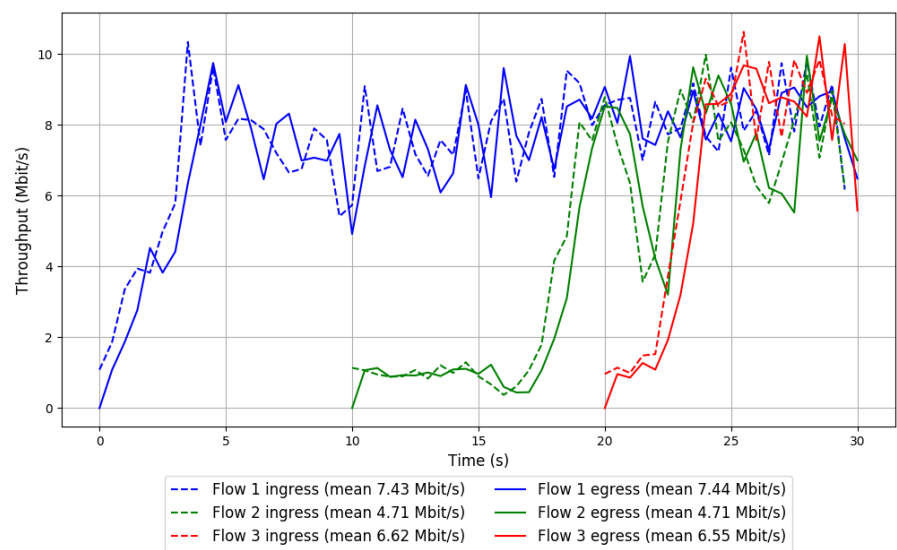


Run 10: Statistics of Sprout

Start at: 2018-06-02 01:41:25  
End at: 2018-06-02 01:41:55  
Local clock offset: 0.21 ms  
Remote clock offset: -0.154 ms

# Below is generated by plot.py at 2018-06-02 03:44:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.71 Mbit/s  
95th percentile per-packet one-way delay: 51.394 ms  
Loss rate: 0.60%  
-- Flow 1:  
Average throughput: 7.44 Mbit/s  
95th percentile per-packet one-way delay: 51.159 ms  
Loss rate: 0.27%  
-- Flow 2:  
Average throughput: 4.71 Mbit/s  
95th percentile per-packet one-way delay: 53.256 ms  
Loss rate: 0.37%  
-- Flow 3:  
Average throughput: 6.55 Mbit/s  
95th percentile per-packet one-way delay: 53.235 ms  
Loss rate: 2.06%

Run 10: Report of Sprout — Data Link

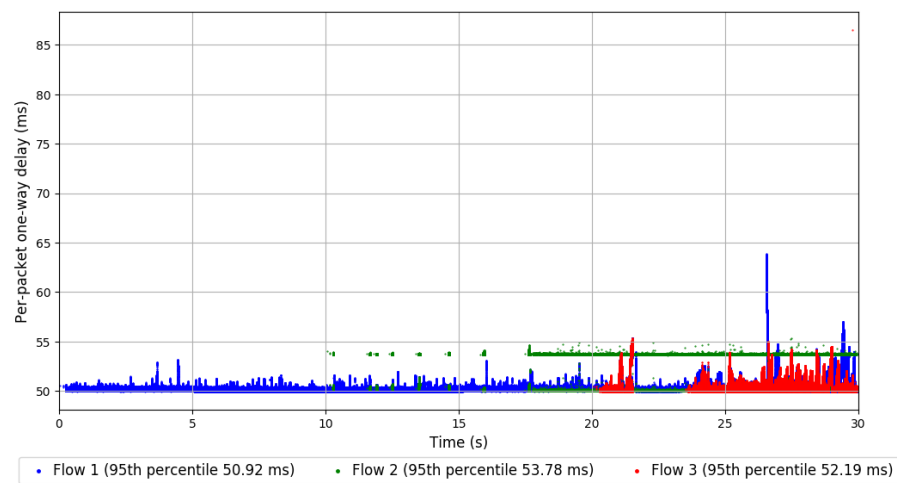
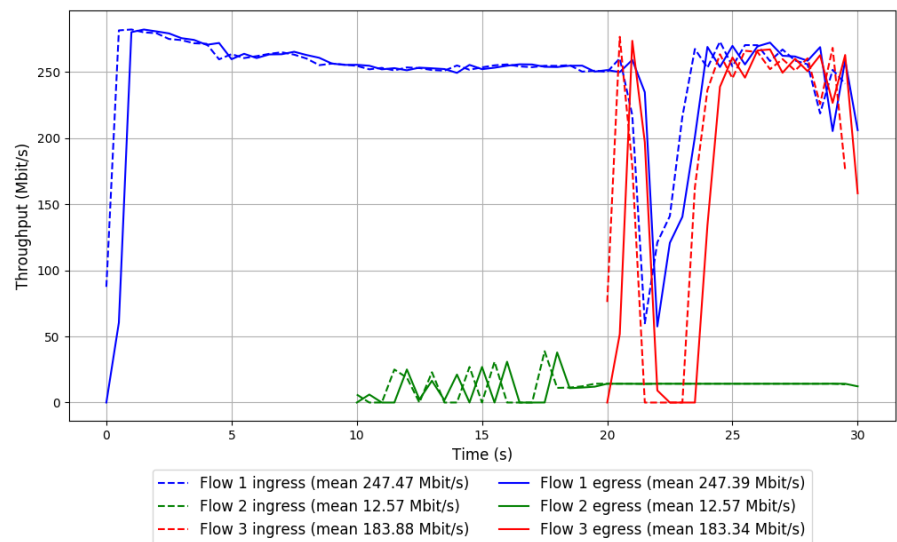


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-01 22:08:56
End at: 2018-06-01 22:09:26
Local clock offset: 0.414 ms
Remote clock offset: -0.193 ms

# Below is generated by plot.py at 2018-06-02 03:48:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 316.23 Mbit/s
95th percentile per-packet one-way delay: 51.663 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 247.39 Mbit/s
95th percentile per-packet one-way delay: 50.922 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 12.57 Mbit/s
95th percentile per-packet one-way delay: 53.781 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 183.34 Mbit/s
95th percentile per-packet one-way delay: 52.186 ms
Loss rate: 1.34%
```

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

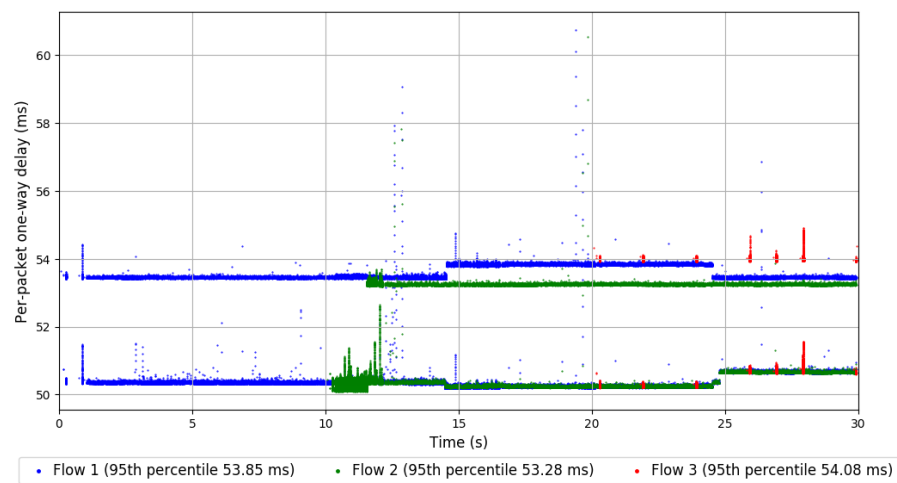
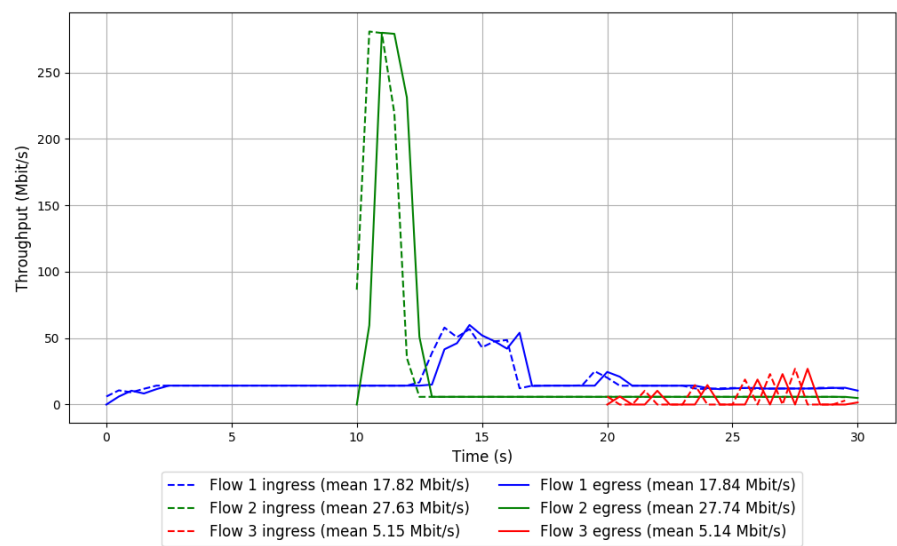


Run 2: Statistics of TaoVA-100x

Start at: 2018-06-01 22:32:26  
End at: 2018-06-01 22:32:56  
Local clock offset: 0.727 ms  
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2018-06-02 03:48:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 37.99 Mbit/s  
95th percentile per-packet one-way delay: 53.843 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 17.84 Mbit/s  
95th percentile per-packet one-way delay: 53.847 ms  
Loss rate: 0.25%  
-- Flow 2:  
Average throughput: 27.74 Mbit/s  
95th percentile per-packet one-way delay: 53.282 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 5.14 Mbit/s  
95th percentile per-packet one-way delay: 54.080 ms  
Loss rate: 1.40%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-06-01 22:55:21

End at: 2018-06-01 22:55:51

Local clock offset: 0.51 ms

Remote clock offset: 0.099 ms

# Below is generated by plot.py at 2018-06-02 03:48:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 217.93 Mbit/s

95th percentile per-packet one-way delay: 53.151 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 41.11 Mbit/s

95th percentile per-packet one-way delay: 53.181 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 258.78 Mbit/s

95th percentile per-packet one-way delay: 50.519 ms

Loss rate: 0.54%

-- Flow 3:

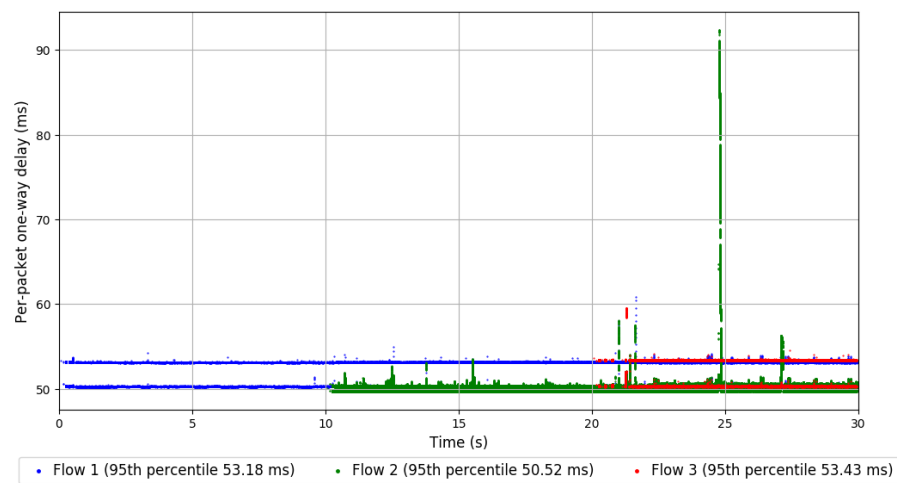
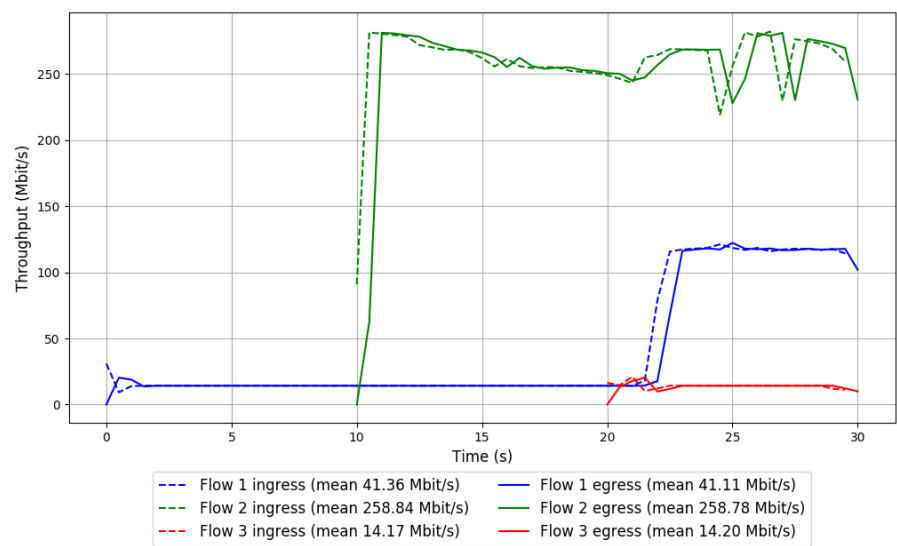
Average throughput: 14.20 Mbit/s

95th percentile per-packet one-way delay: 53.431 ms

Loss rate: 0.85%



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

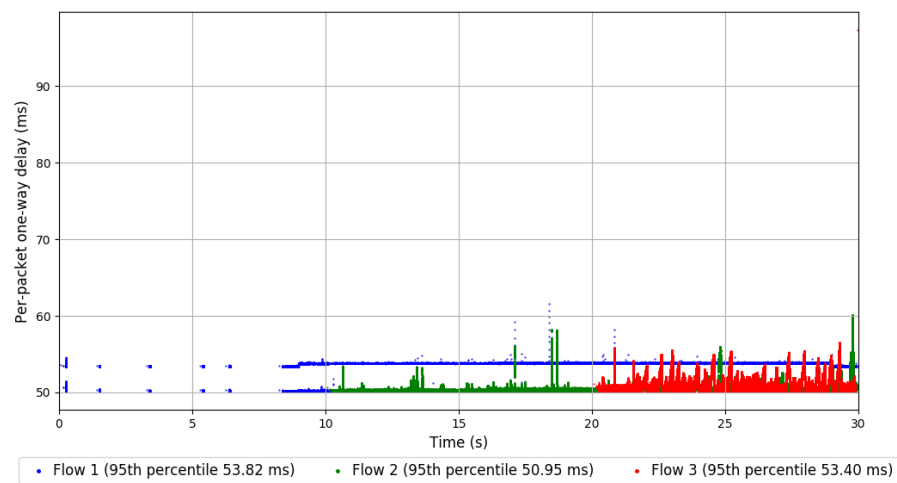
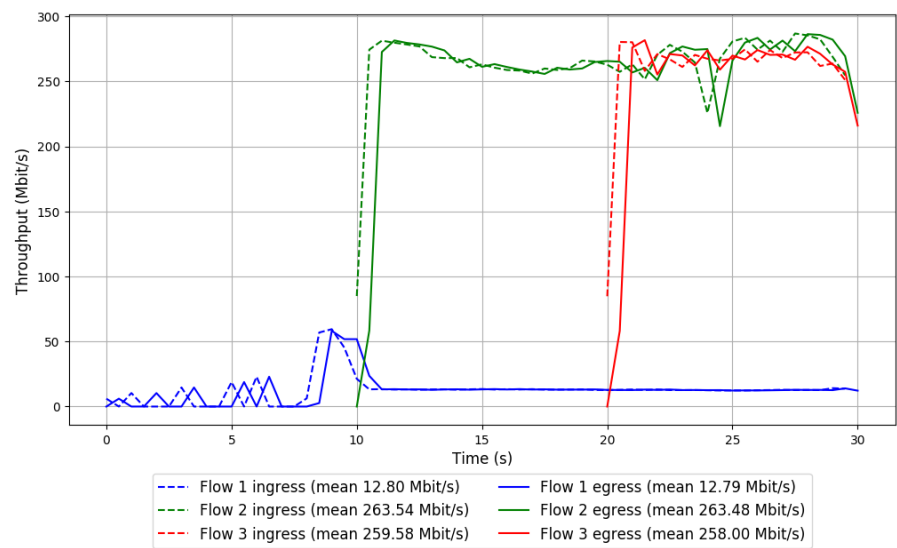


Run 4: Statistics of TaoVA-100x

Start at: 2018-06-01 23:18:22  
End at: 2018-06-01 23:18:52  
Local clock offset: 0.638 ms  
Remote clock offset: -0.208 ms

# Below is generated by plot.py at 2018-06-02 03:48:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 273.21 Mbit/s  
95th percentile per-packet one-way delay: 53.121 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 12.79 Mbit/s  
95th percentile per-packet one-way delay: 53.823 ms  
Loss rate: 0.42%  
-- Flow 2:  
Average throughput: 263.48 Mbit/s  
95th percentile per-packet one-way delay: 50.952 ms  
Loss rate: 0.54%  
-- Flow 3:  
Average throughput: 258.00 Mbit/s  
95th percentile per-packet one-way delay: 53.399 ms  
Loss rate: 1.28%

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

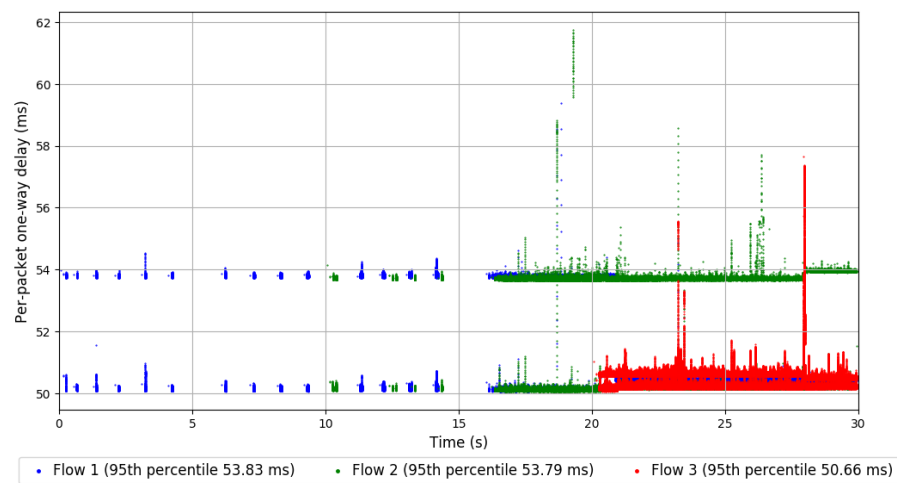
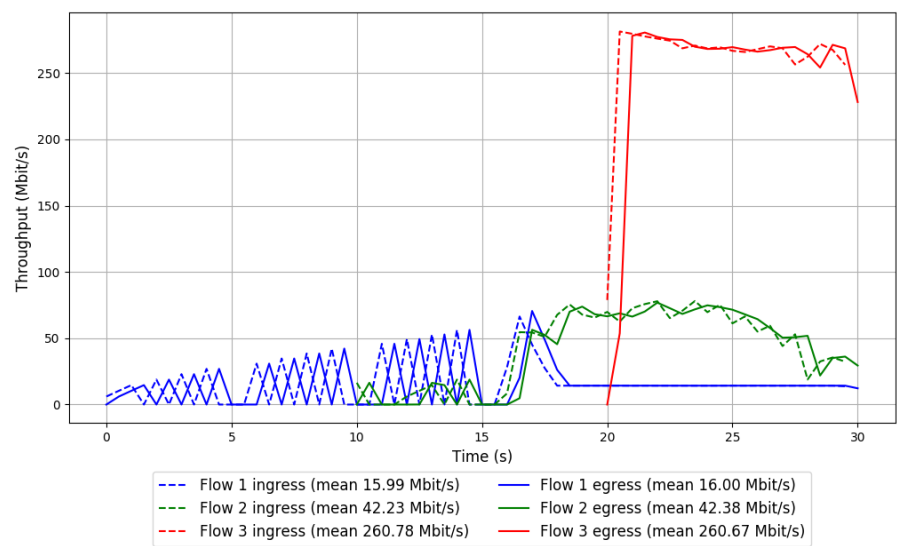


Run 5: Statistics of TaoVA-100x

Start at: 2018-06-01 23:41:20  
End at: 2018-06-01 23:41:50  
Local clock offset: 0.115 ms  
Remote clock offset: -0.253 ms

# Below is generated by plot.py at 2018-06-02 03:48:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 130.24 Mbit/s  
95th percentile per-packet one-way delay: 53.768 ms  
Loss rate: 0.80%  
-- Flow 1:  
Average throughput: 16.00 Mbit/s  
95th percentile per-packet one-way delay: 53.825 ms  
Loss rate: 0.31%  
-- Flow 2:  
Average throughput: 42.38 Mbit/s  
95th percentile per-packet one-way delay: 53.792 ms  
Loss rate: 0.17%  
-- Flow 3:  
Average throughput: 260.67 Mbit/s  
95th percentile per-packet one-way delay: 50.661 ms  
Loss rate: 1.09%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-06-02 00:04:14

End at: 2018-06-02 00:04:44

Local clock offset: 0.088 ms

Remote clock offset: 0.072 ms

# Below is generated by plot.py at 2018-06-02 03:48:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 130.53 Mbit/s

95th percentile per-packet one-way delay: 53.752 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 17.21 Mbit/s

95th percentile per-packet one-way delay: 54.149 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 141.45 Mbit/s

95th percentile per-packet one-way delay: 53.430 ms

Loss rate: 0.00%

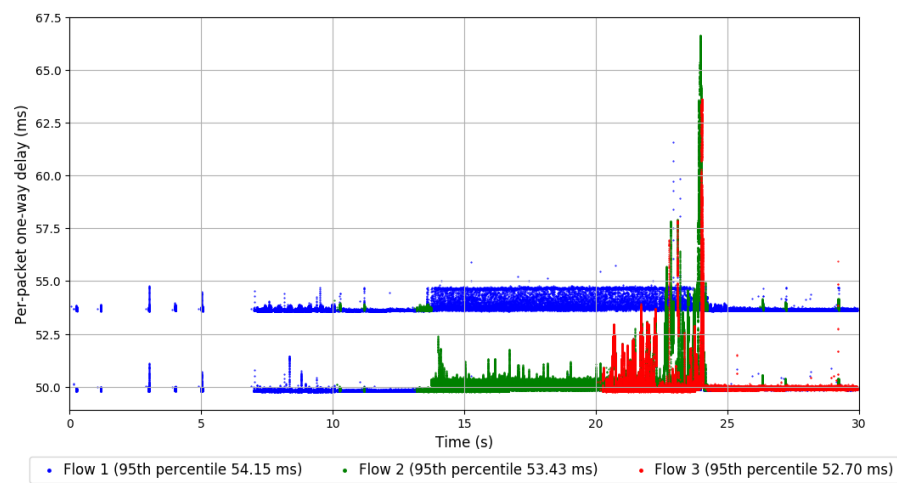
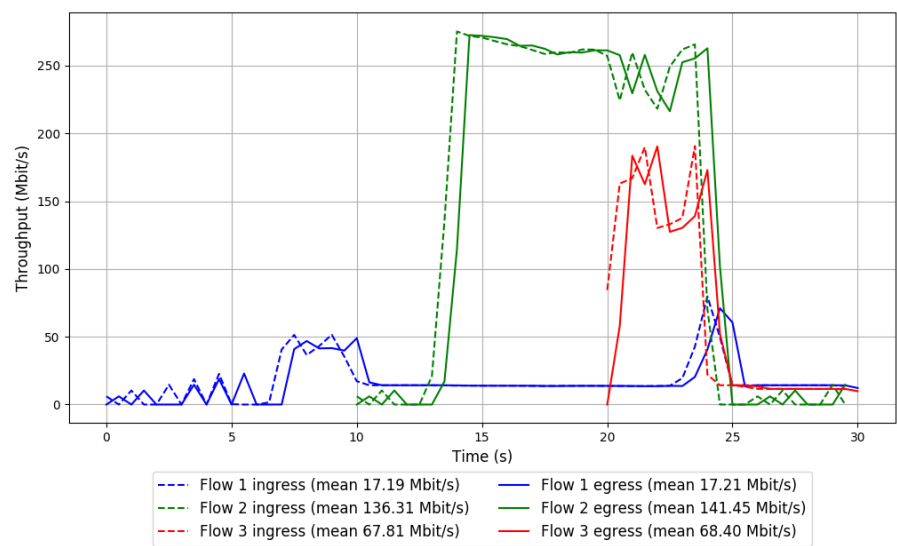
-- Flow 3:

Average throughput: 68.40 Mbit/s

95th percentile per-packet one-way delay: 52.695 ms

Loss rate: 0.18%

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



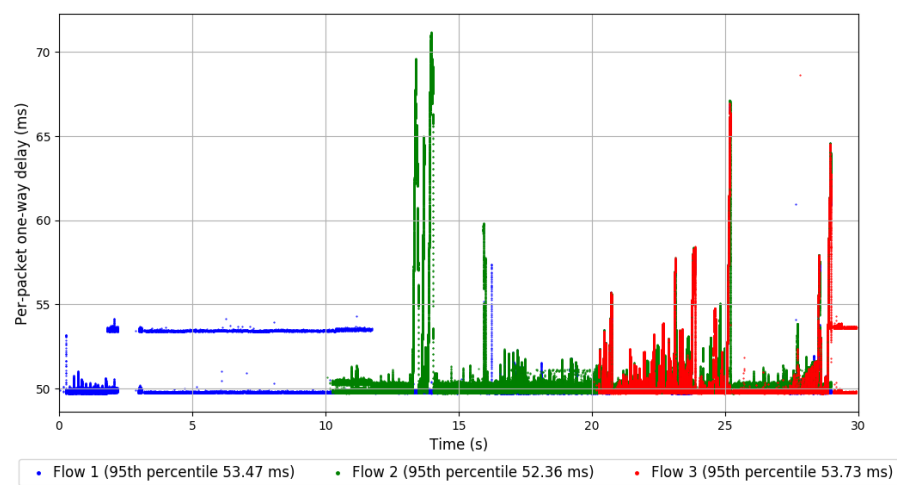
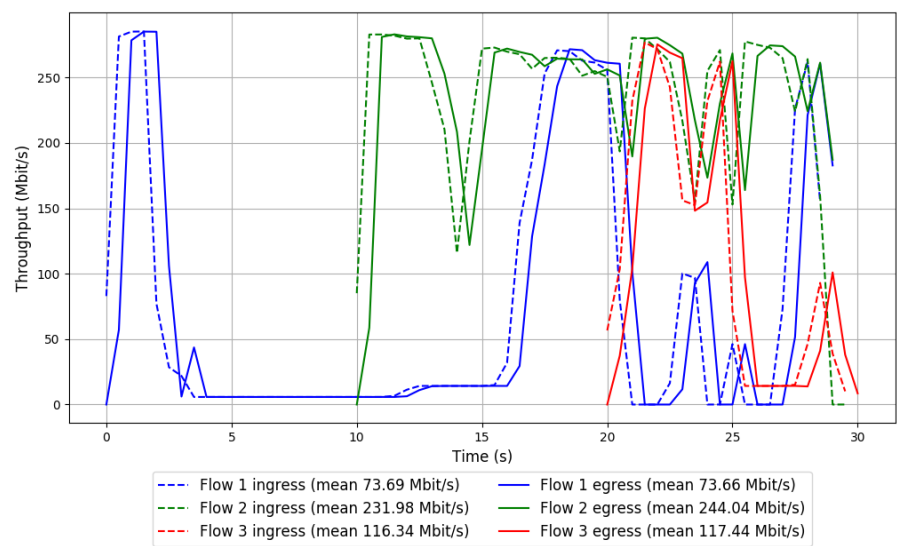
Run 7: Statistics of TaoVA-100x

Start at: 2018-06-02 00:27:19  
End at: 2018-06-02 00:27:49  
Local clock offset: -0.173 ms  
Remote clock offset: -0.145 ms

# Below is generated by plot.py at 2018-06-02 03:48:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 264.63 Mbit/s  
95th percentile per-packet one-way delay: 53.428 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 73.66 Mbit/s  
95th percentile per-packet one-way delay: 53.467 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 244.04 Mbit/s  
95th percentile per-packet one-way delay: 52.356 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 117.44 Mbit/s  
95th percentile per-packet one-way delay: 53.728 ms  
Loss rate: 0.10%



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



Run 8: Statistics of TaoVA-100x

Start at: 2018-06-02 00:50:24

End at: 2018-06-02 00:50:54

Local clock offset: 0.181 ms

Remote clock offset: 0.491 ms

# Below is generated by plot.py at 2018-06-02 03:48:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 31.83 Mbit/s

95th percentile per-packet one-way delay: 53.422 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 19.50 Mbit/s

95th percentile per-packet one-way delay: 53.387 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 12.66 Mbit/s

95th percentile per-packet one-way delay: 53.470 ms

Loss rate: 0.58%

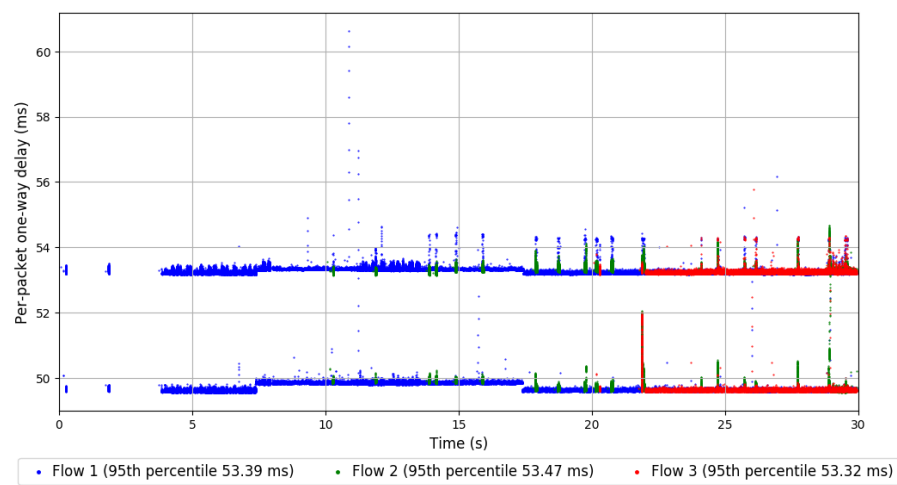
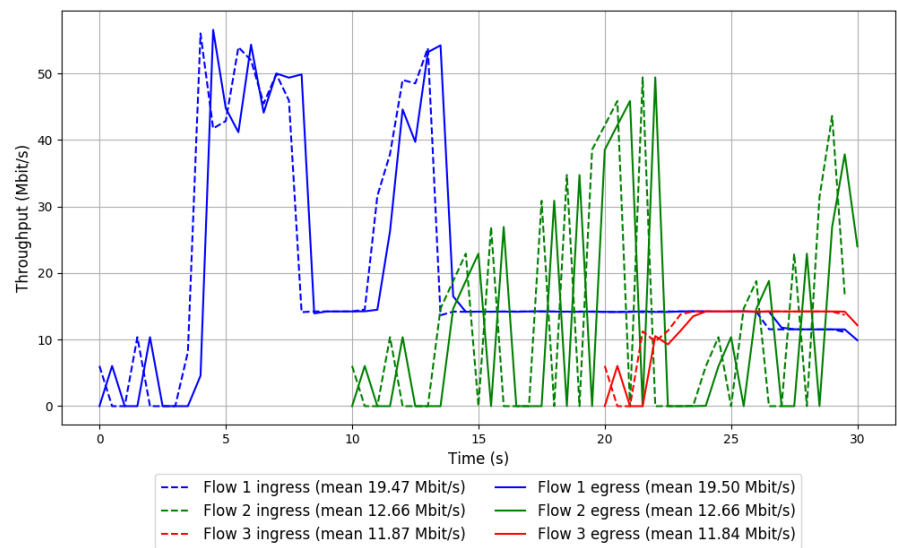
-- Flow 3:

Average throughput: 11.84 Mbit/s

95th percentile per-packet one-way delay: 53.320 ms

Loss rate: 1.25%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-06-02 01:13:05

End at: 2018-06-02 01:13:35

Local clock offset: 0.344 ms

Remote clock offset: 0.103 ms

# Below is generated by plot.py at 2018-06-02 03:48:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 155.95 Mbit/s

95th percentile per-packet one-way delay: 53.686 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 60.47 Mbit/s

95th percentile per-packet one-way delay: 53.751 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 12.36 Mbit/s

95th percentile per-packet one-way delay: 54.106 ms

Loss rate: 0.49%

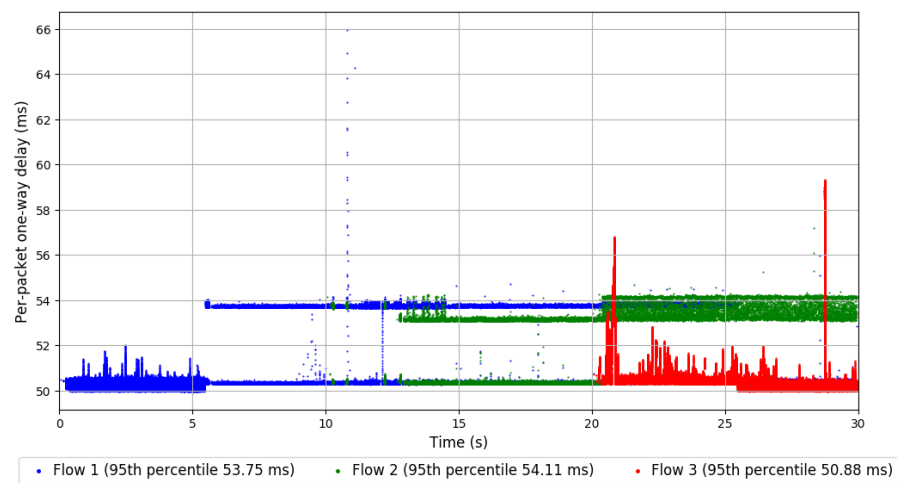
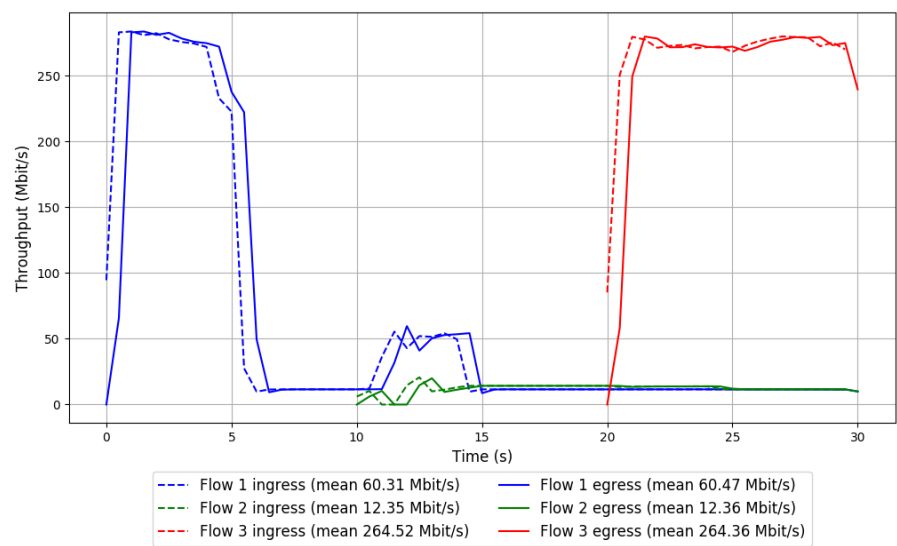
-- Flow 3:

Average throughput: 264.36 Mbit/s

95th percentile per-packet one-way delay: 50.878 ms

Loss rate: 1.11%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-06-02 01:36:01

End at: 2018-06-02 01:36:31

Local clock offset: 0.371 ms

Remote clock offset: 0.161 ms

# Below is generated by plot.py at 2018-06-02 03:54:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 325.31 Mbit/s

95th percentile per-packet one-way delay: 51.065 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 96.90 Mbit/s

95th percentile per-packet one-way delay: 50.883 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 252.53 Mbit/s

95th percentile per-packet one-way delay: 50.680 ms

Loss rate: 0.54%

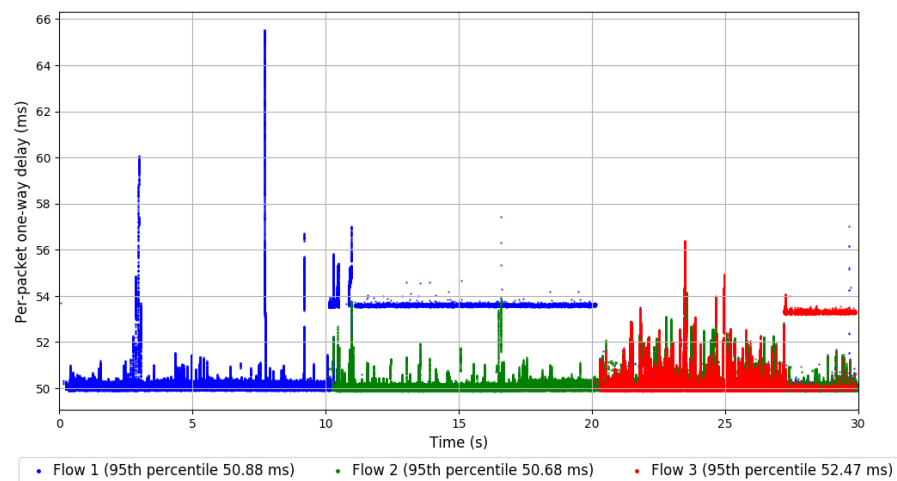
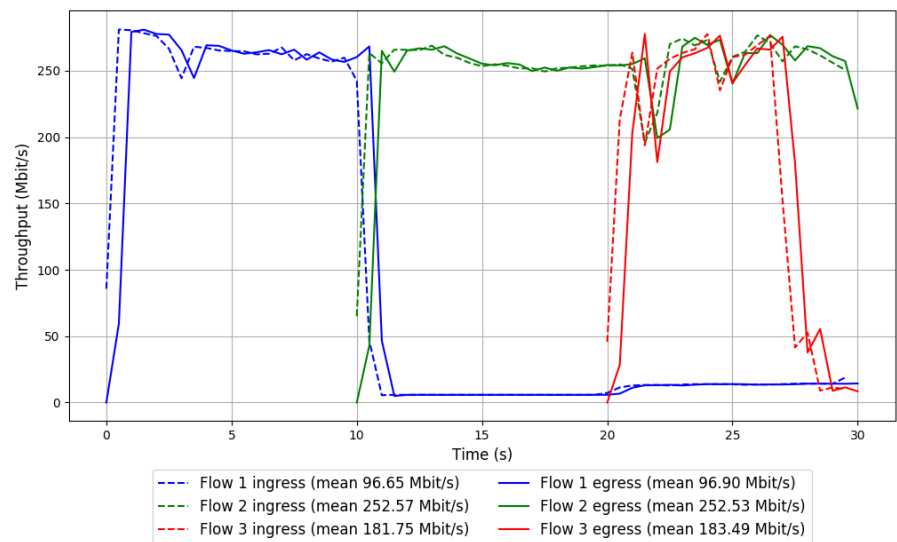
-- Flow 3:

Average throughput: 183.49 Mbit/s

95th percentile per-packet one-way delay: 52.473 ms

Loss rate: 0.08%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-06-01 22:06:25

End at: 2018-06-01 22:06:55

Local clock offset: 0.56 ms

Remote clock offset: -0.28 ms

# Below is generated by plot.py at 2018-06-02 03:54:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 145.09 Mbit/s

95th percentile per-packet one-way delay: 57.911 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 140.41 Mbit/s

95th percentile per-packet one-way delay: 57.935 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 5.08 Mbit/s

95th percentile per-packet one-way delay: 52.425 ms

Loss rate: 0.86%

-- Flow 3:

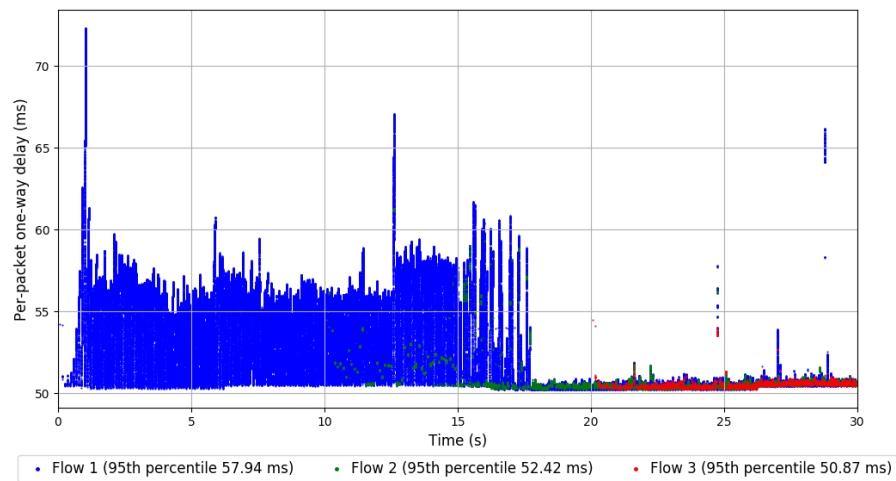
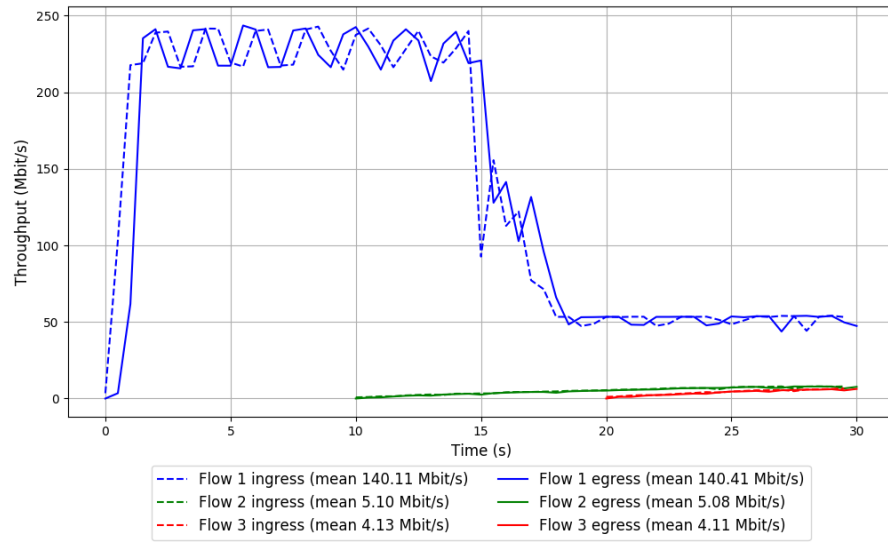
Average throughput: 4.11 Mbit/s

95th percentile per-packet one-way delay: 50.871 ms

Loss rate: 1.60%



## Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-06-01 22:29:48

End at: 2018-06-01 22:30:18

Local clock offset: 0.722 ms

Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2018-06-02 03:54:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 299.81 Mbit/s

95th percentile per-packet one-way delay: 60.069 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 210.39 Mbit/s

95th percentile per-packet one-way delay: 60.467 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 132.68 Mbit/s

95th percentile per-packet one-way delay: 58.225 ms

Loss rate: 0.37%

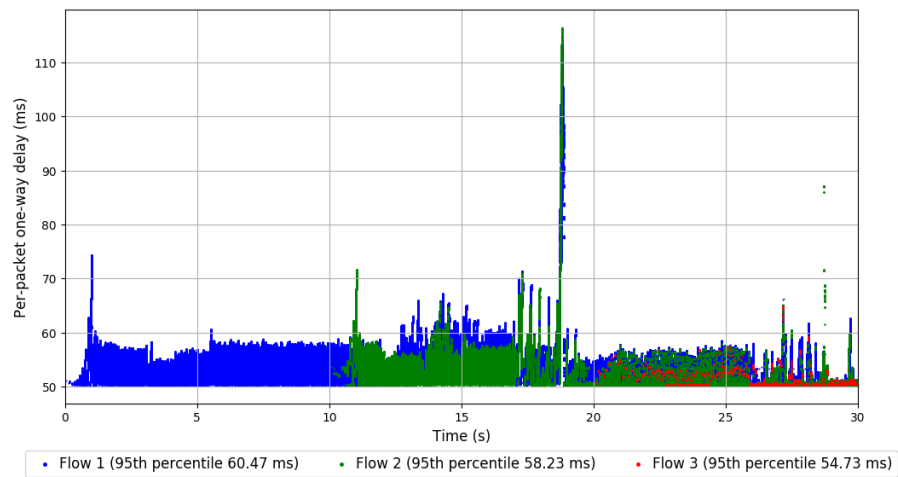
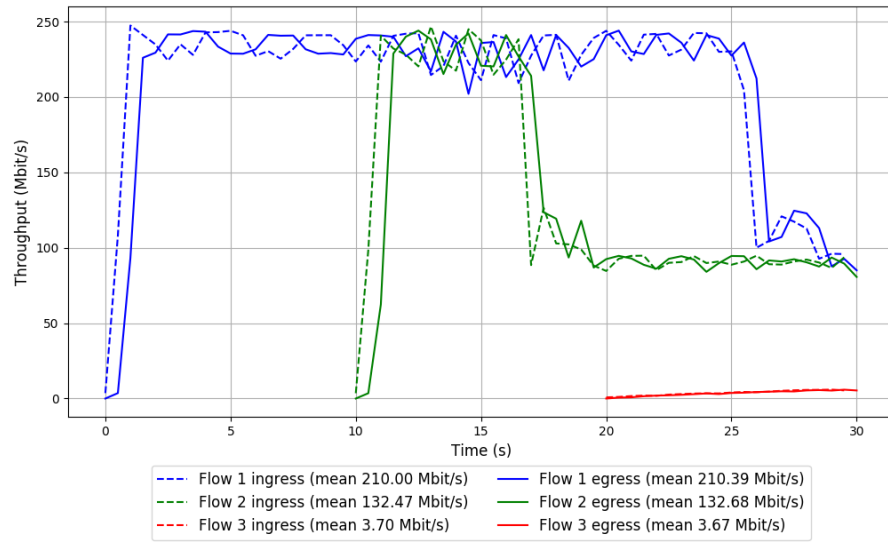
-- Flow 3:

Average throughput: 3.67 Mbit/s

95th percentile per-packet one-way delay: 54.734 ms

Loss rate: 1.86%

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

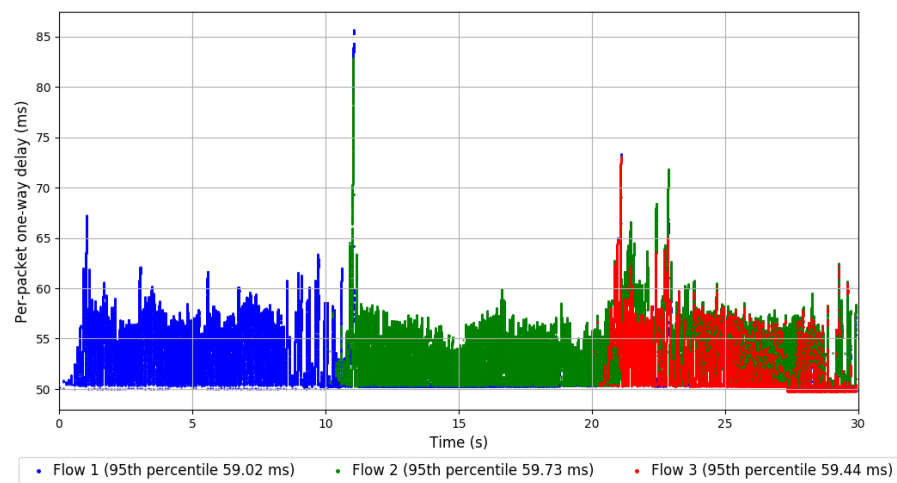
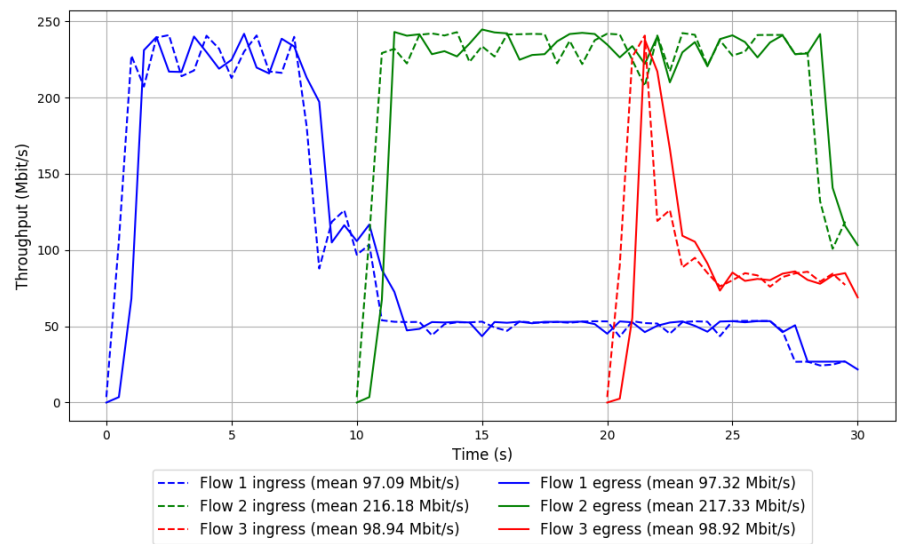


Run 3: Statistics of TCP Vegas

Start at: 2018-06-01 22:52:44  
End at: 2018-06-01 22:53:14  
Local clock offset: 0.449 ms  
Remote clock offset: -0.006 ms

# Below is generated by plot.py at 2018-06-02 03:54:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 274.14 Mbit/s  
95th percentile per-packet one-way delay: 59.354 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 97.32 Mbit/s  
95th percentile per-packet one-way delay: 59.023 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 217.33 Mbit/s  
95th percentile per-packet one-way delay: 59.731 ms  
Loss rate: 0.18%  
-- Flow 3:  
Average throughput: 98.92 Mbit/s  
95th percentile per-packet one-way delay: 59.435 ms  
Loss rate: 0.90%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-06-01 23:15:46

End at: 2018-06-01 23:16:16

Local clock offset: 0.21 ms

Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2018-06-02 03:54:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 253.64 Mbit/s

95th percentile per-packet one-way delay: 58.579 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 147.94 Mbit/s

95th percentile per-packet one-way delay: 58.960 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 53.23 Mbit/s

95th percentile per-packet one-way delay: 58.433 ms

Loss rate: 0.32%

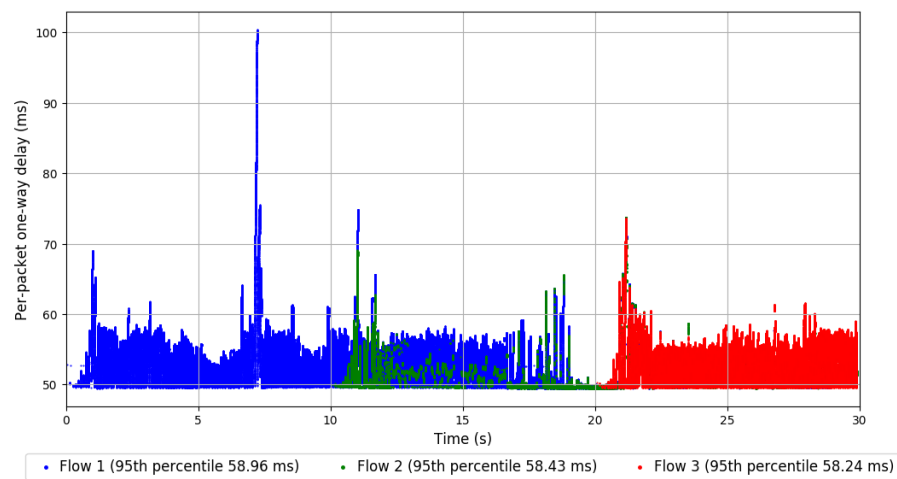
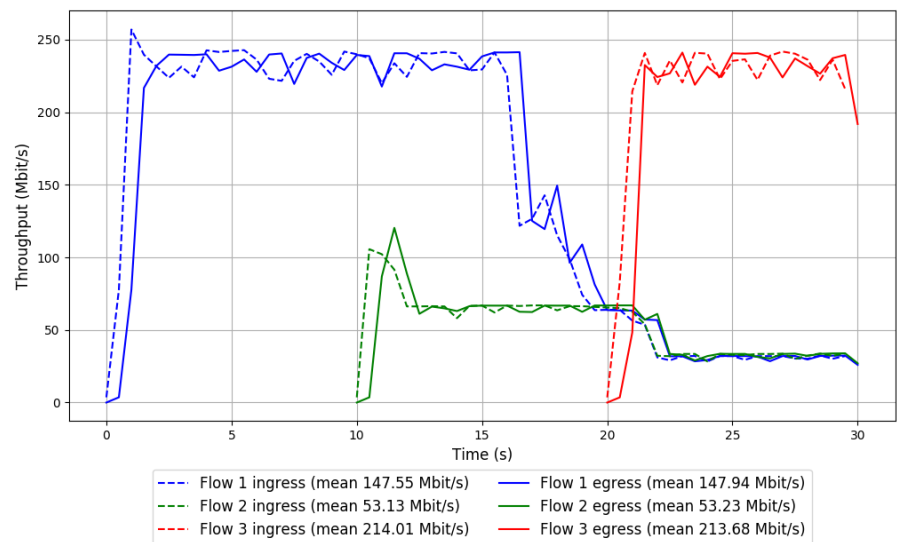
-- Flow 3:

Average throughput: 213.68 Mbit/s

95th percentile per-packet one-way delay: 58.241 ms

Loss rate: 1.13%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-06-01 23:38:41

End at: 2018-06-01 23:39:11

Local clock offset: 0.179 ms

Remote clock offset: 0.032 ms

# Below is generated by plot.py at 2018-06-02 03:54:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 296.25 Mbit/s

95th percentile per-packet one-way delay: 57.295 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 223.58 Mbit/s

95th percentile per-packet one-way delay: 57.416 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 56.63 Mbit/s

95th percentile per-packet one-way delay: 53.749 ms

Loss rate: 0.54%

-- Flow 3:

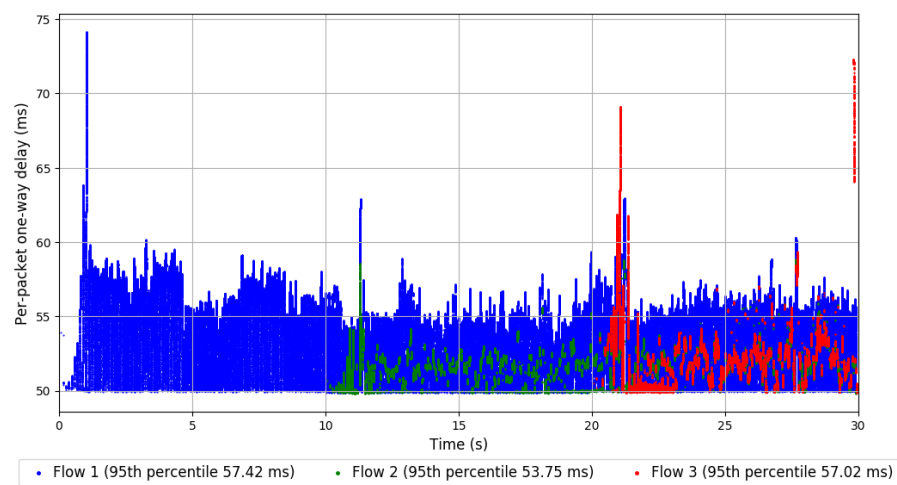
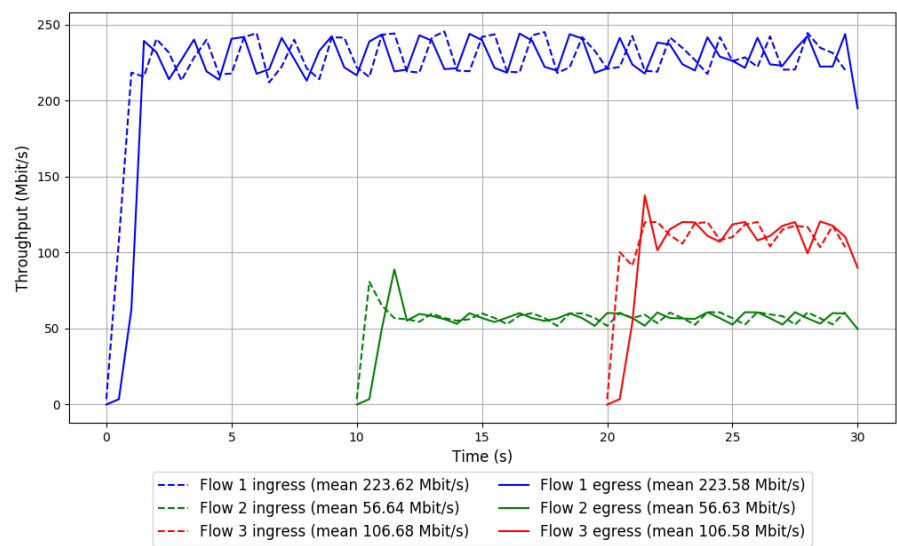
Average throughput: 106.58 Mbit/s

95th percentile per-packet one-way delay: 57.023 ms

Loss rate: 1.13%



Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-06-02 00:01:36

End at: 2018-06-02 00:02:06

Local clock offset: 0.121 ms

Remote clock offset: 0.112 ms

# Below is generated by plot.py at 2018-06-02 03:54:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 311.50 Mbit/s

95th percentile per-packet one-way delay: 67.630 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 100.13 Mbit/s

95th percentile per-packet one-way delay: 62.716 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 216.55 Mbit/s

95th percentile per-packet one-way delay: 66.050 ms

Loss rate: 0.55%

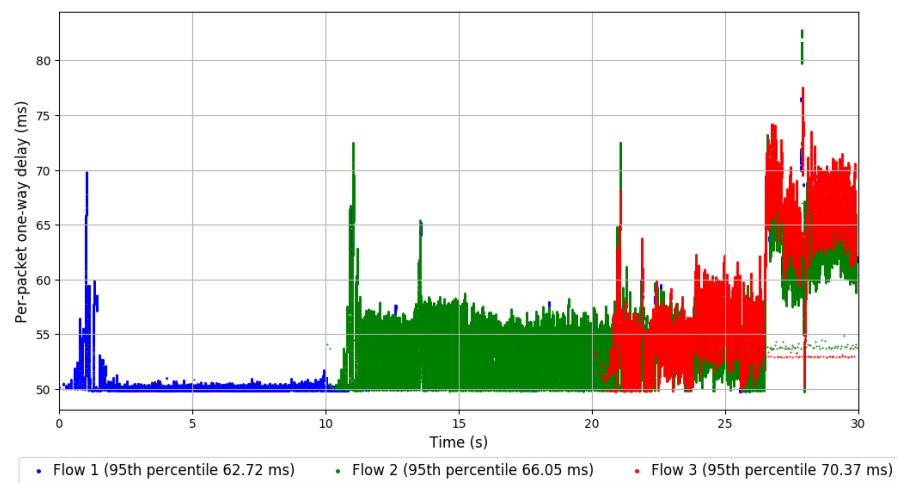
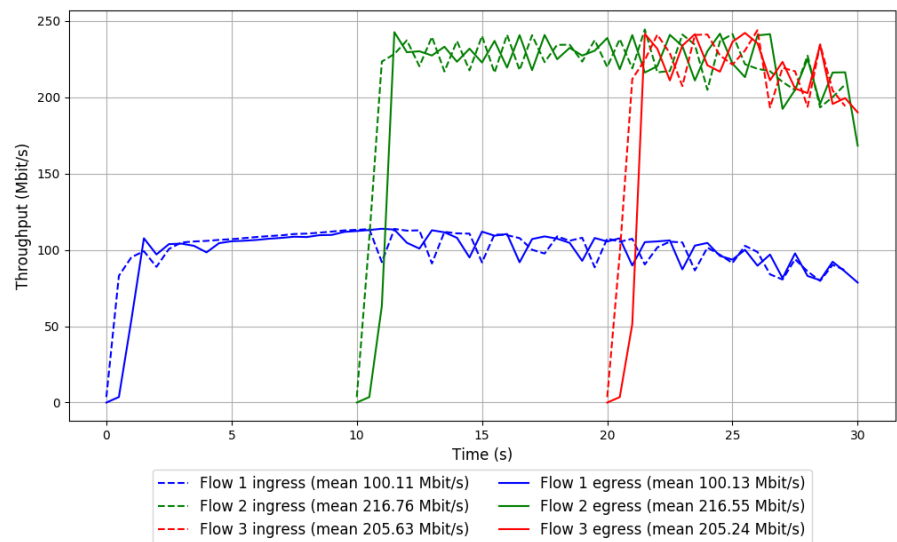
-- Flow 3:

Average throughput: 205.24 Mbit/s

95th percentile per-packet one-way delay: 70.374 ms

Loss rate: 1.18%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-06-02 00:24:42

End at: 2018-06-02 00:25:12

Local clock offset: -0.289 ms

Remote clock offset: 0.089 ms

# Below is generated by plot.py at 2018-06-02 03:54:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 312.78 Mbit/s

95th percentile per-packet one-way delay: 56.130 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 144.30 Mbit/s

95th percentile per-packet one-way delay: 53.665 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 220.31 Mbit/s

95th percentile per-packet one-way delay: 56.519 ms

Loss rate: 0.57%

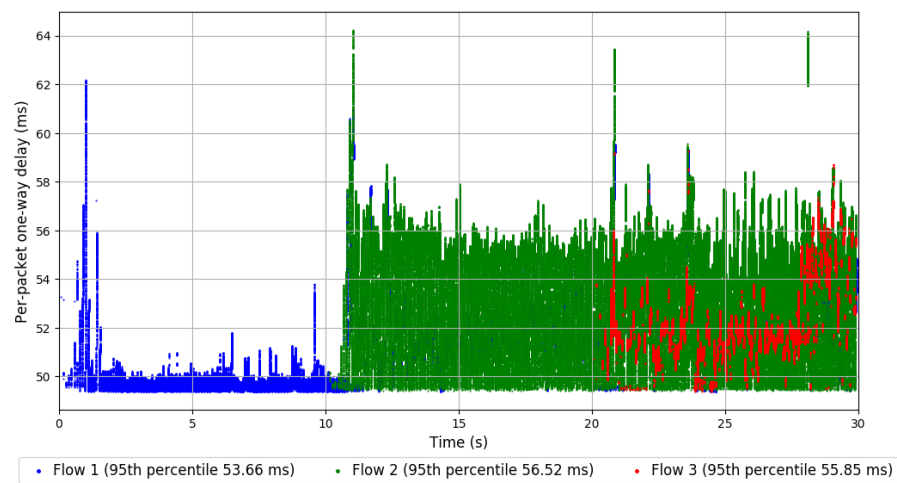
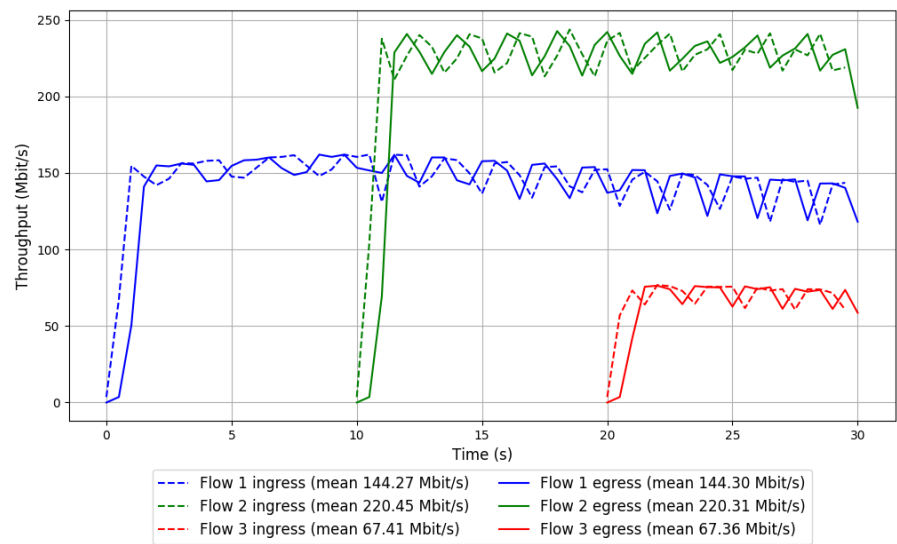
-- Flow 3:

Average throughput: 67.36 Mbit/s

95th percentile per-packet one-way delay: 55.855 ms

Loss rate: 1.09%

Run 7: Report of TCP Vegas — Data Link

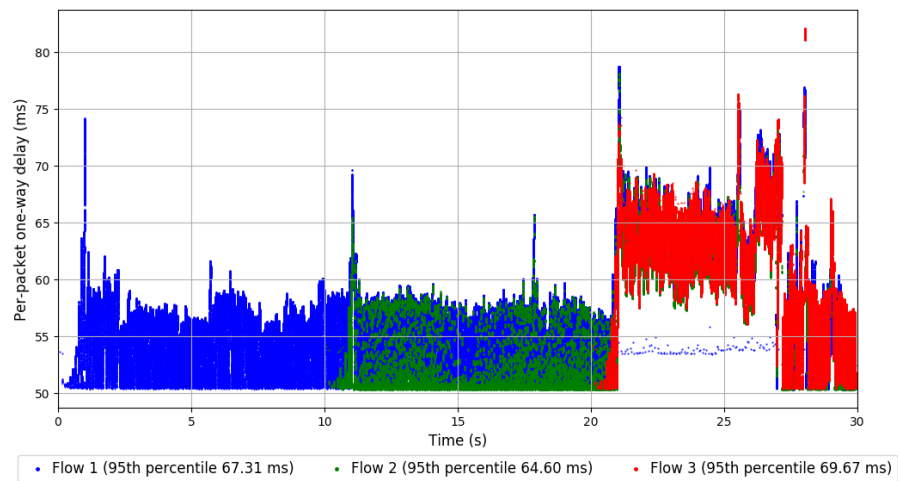
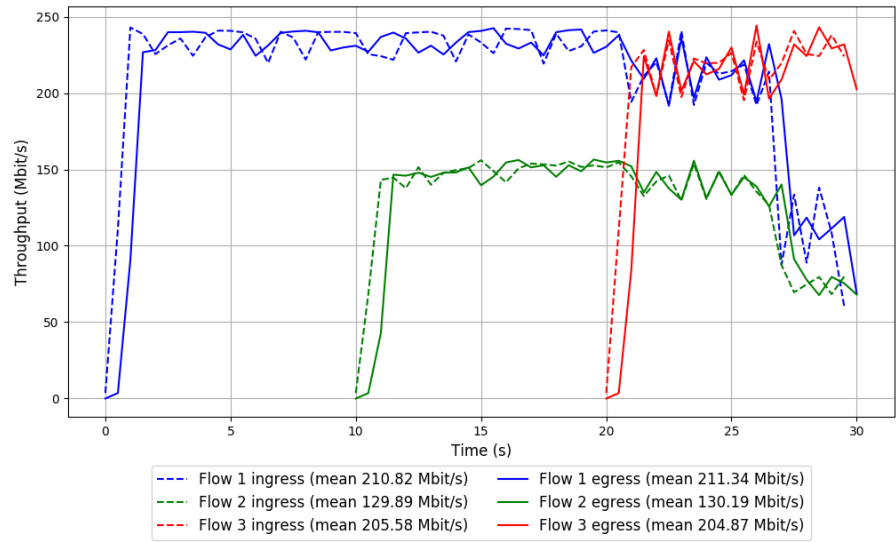


Run 8: Statistics of TCP Vegas

Start at: 2018-06-02 00:47:43  
End at: 2018-06-02 00:48:13  
Local clock offset: 0.058 ms  
Remote clock offset: -0.163 ms

# Below is generated by plot.py at 2018-06-02 03:55:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 365.38 Mbit/s  
95th percentile per-packet one-way delay: 67.591 ms  
Loss rate: 0.34%  
-- Flow 1:  
Average throughput: 211.34 Mbit/s  
95th percentile per-packet one-way delay: 67.309 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 130.19 Mbit/s  
95th percentile per-packet one-way delay: 64.596 ms  
Loss rate: 0.31%  
-- Flow 3:  
Average throughput: 204.87 Mbit/s  
95th percentile per-packet one-way delay: 69.674 ms  
Loss rate: 1.13%

# Run 8: Report of TCP Vegas — Data Link



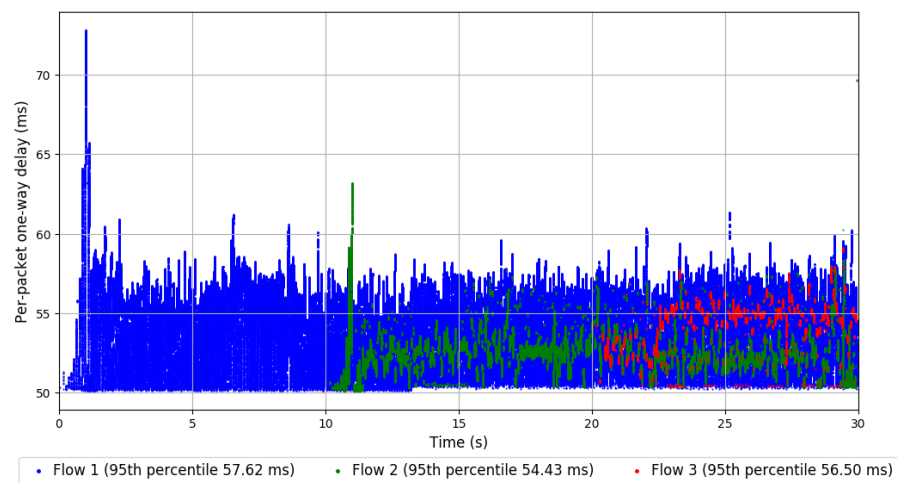
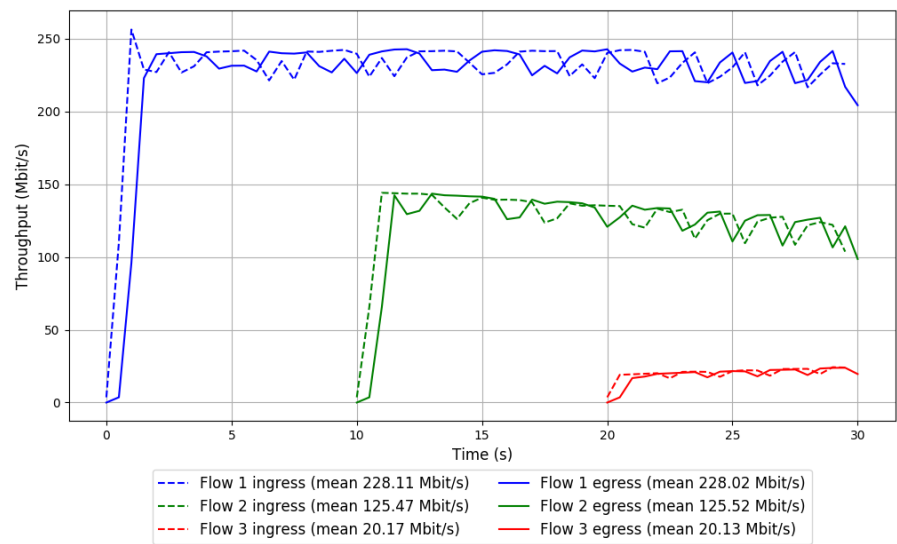
Run 9: Statistics of TCP Vegas

Start at: 2018-06-02 01:10:28  
End at: 2018-06-02 01:10:58  
Local clock offset: 0.177 ms  
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2018-06-02 03:55:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 318.11 Mbit/s  
95th percentile per-packet one-way delay: 57.397 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 228.02 Mbit/s  
95th percentile per-packet one-way delay: 57.616 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 125.52 Mbit/s  
95th percentile per-packet one-way delay: 54.428 ms  
Loss rate: 0.50%  
-- Flow 3:  
Average throughput: 20.13 Mbit/s  
95th percentile per-packet one-way delay: 56.496 ms  
Loss rate: 1.23%



Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-06-02 01:33:26

End at: 2018-06-02 01:33:56

Local clock offset: 0.096 ms

Remote clock offset: 0.323 ms

# Below is generated by plot.py at 2018-06-02 03:55:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 256.23 Mbit/s

95th percentile per-packet one-way delay: 57.776 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 225.01 Mbit/s

95th percentile per-packet one-way delay: 57.859 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 41.87 Mbit/s

95th percentile per-packet one-way delay: 56.538 ms

Loss rate: 0.61%

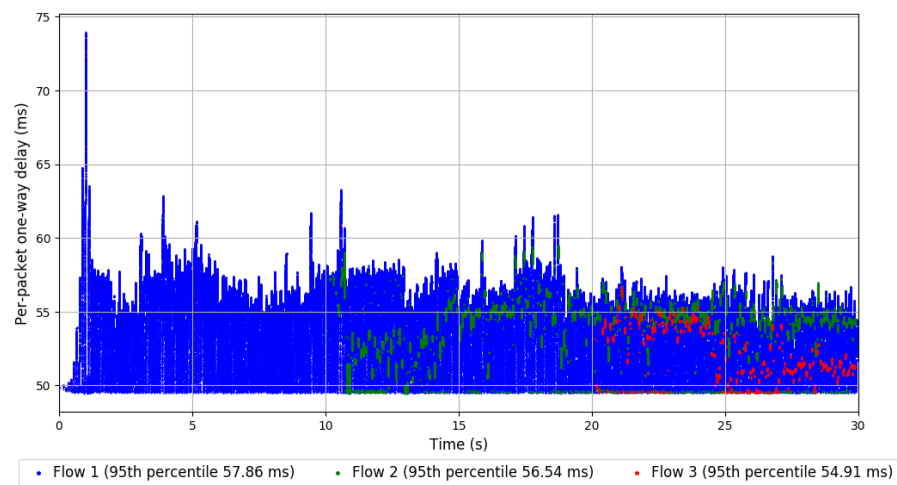
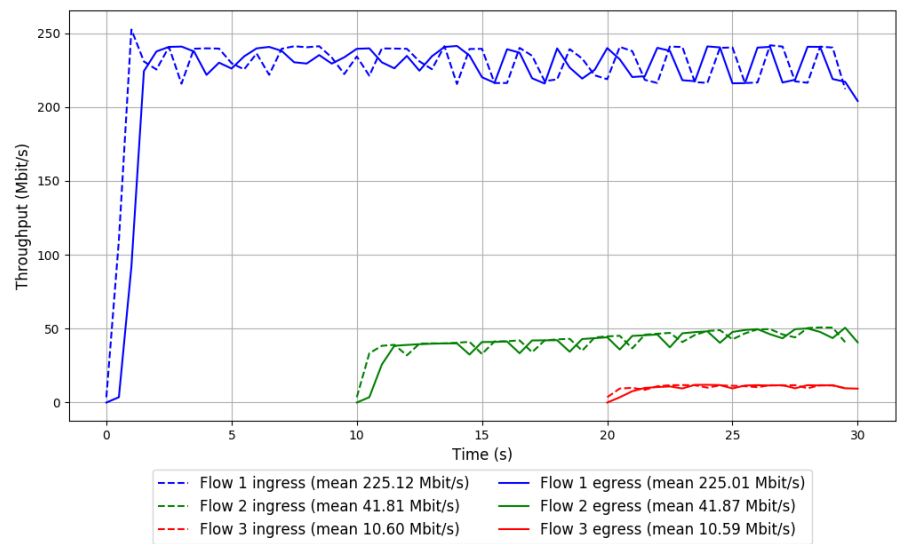
-- Flow 3:

Average throughput: 10.59 Mbit/s

95th percentile per-packet one-way delay: 54.910 ms

Loss rate: 1.12%

Run 10: Report of TCP Vegas — Data Link

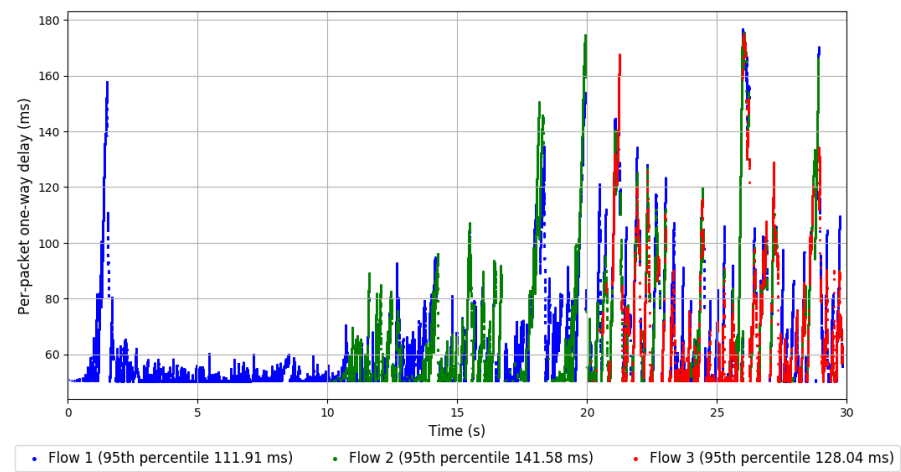
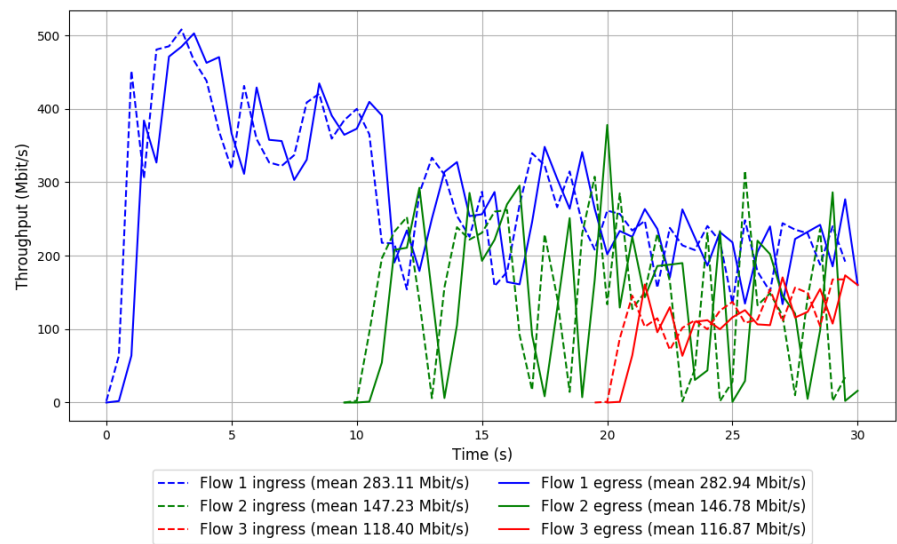


Run 1: Statistics of Verus

Start at: 2018-06-01 22:15:24  
End at: 2018-06-01 22:15:54  
Local clock offset: 0.409 ms  
Remote clock offset: -0.439 ms

# Below is generated by plot.py at 2018-06-02 03:58:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 419.13 Mbit/s  
95th percentile per-packet one-way delay: 124.591 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 282.94 Mbit/s  
95th percentile per-packet one-way delay: 111.905 ms  
Loss rate: 0.26%  
-- Flow 2:  
Average throughput: 146.78 Mbit/s  
95th percentile per-packet one-way delay: 141.577 ms  
Loss rate: 0.84%  
-- Flow 3:  
Average throughput: 116.87 Mbit/s  
95th percentile per-packet one-way delay: 128.038 ms  
Loss rate: 1.51%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-06-01 22:38:35

End at: 2018-06-01 22:39:05

Local clock offset: 0.601 ms

Remote clock offset: 0.191 ms

# Below is generated by plot.py at 2018-06-02 03:59:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 407.06 Mbit/s

95th percentile per-packet one-way delay: 149.168 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 232.65 Mbit/s

95th percentile per-packet one-way delay: 144.979 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 176.21 Mbit/s

95th percentile per-packet one-way delay: 150.934 ms

Loss rate: 1.30%

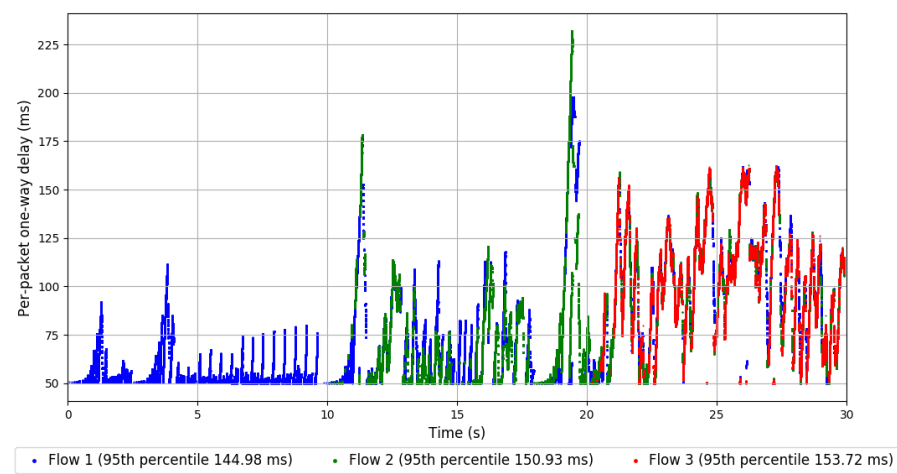
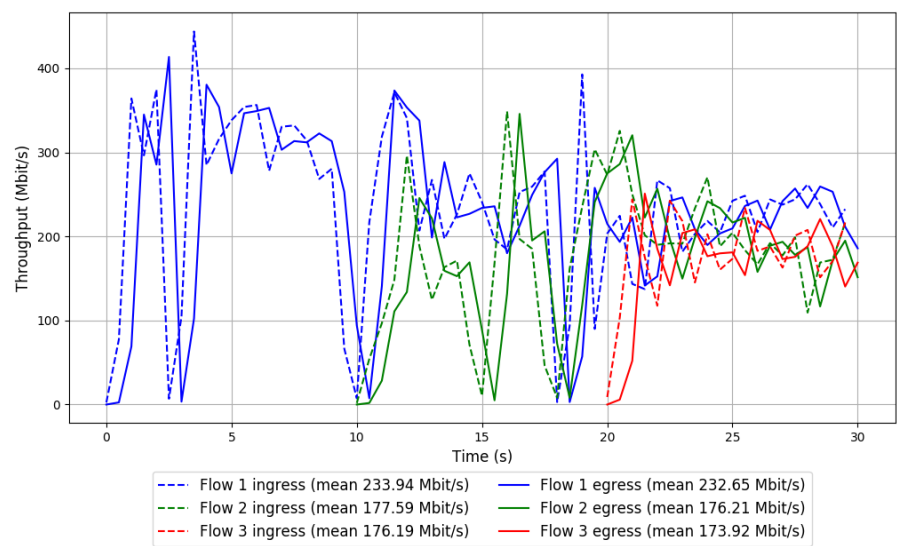
-- Flow 3:

Average throughput: 173.92 Mbit/s

95th percentile per-packet one-way delay: 153.716 ms

Loss rate: 2.43%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-06-01 23:01:39

End at: 2018-06-01 23:02:09

Local clock offset: 0.795 ms

Remote clock offset: 0.272 ms

# Below is generated by plot.py at 2018-06-02 03:59:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 367.91 Mbit/s

95th percentile per-packet one-way delay: 158.679 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 260.34 Mbit/s

95th percentile per-packet one-way delay: 161.891 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 113.61 Mbit/s

95th percentile per-packet one-way delay: 141.789 ms

Loss rate: 1.32%

-- Flow 3:

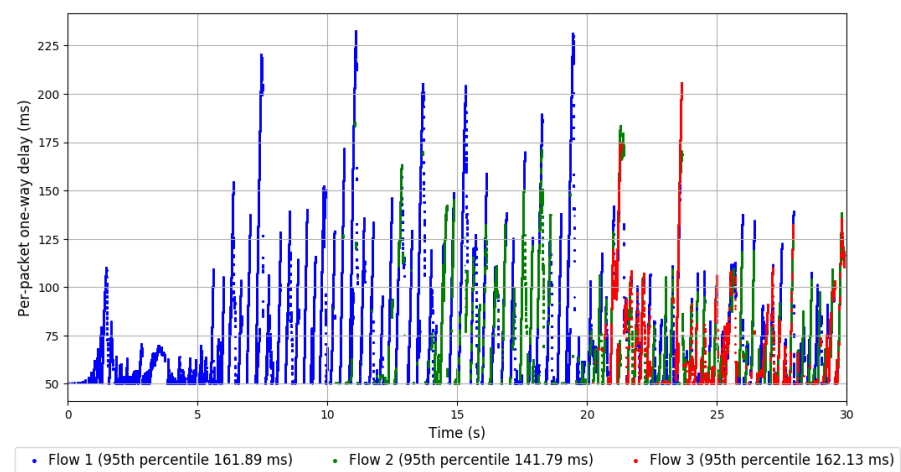
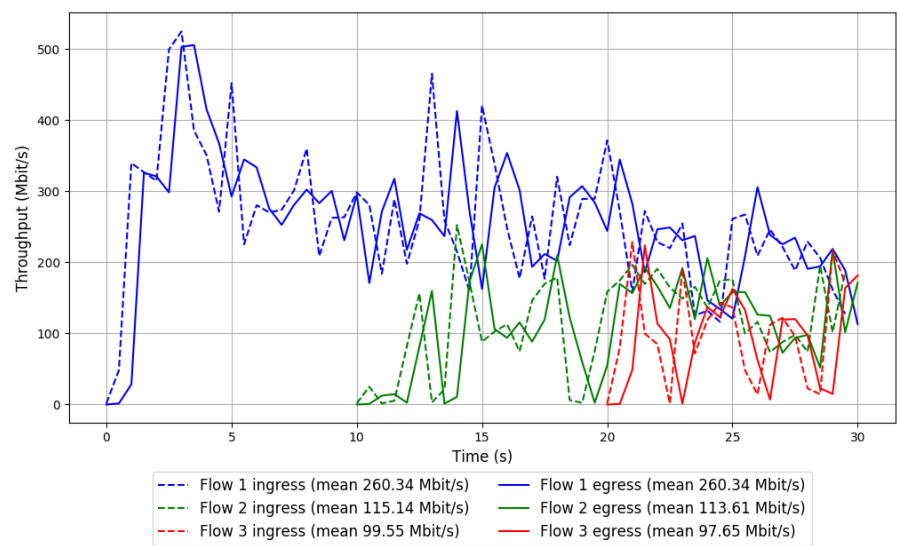
Average throughput: 97.65 Mbit/s

95th percentile per-packet one-way delay: 162.133 ms

Loss rate: 3.12%



Run 3: Report of Verus — Data Link

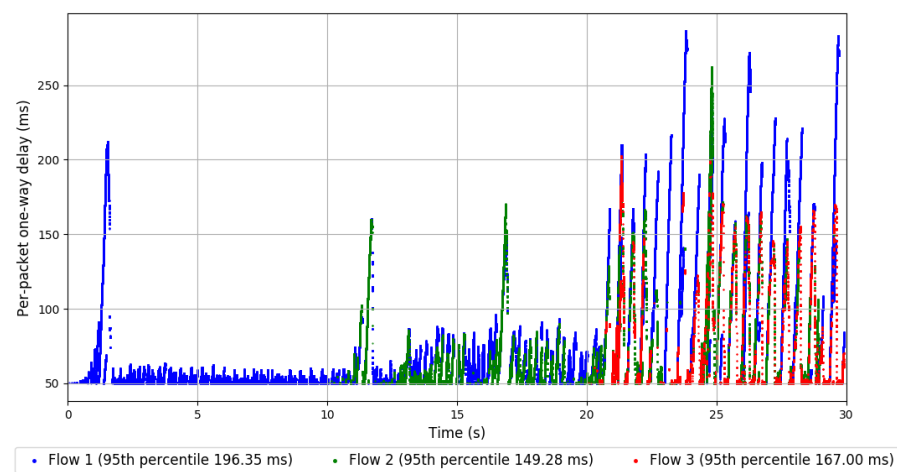
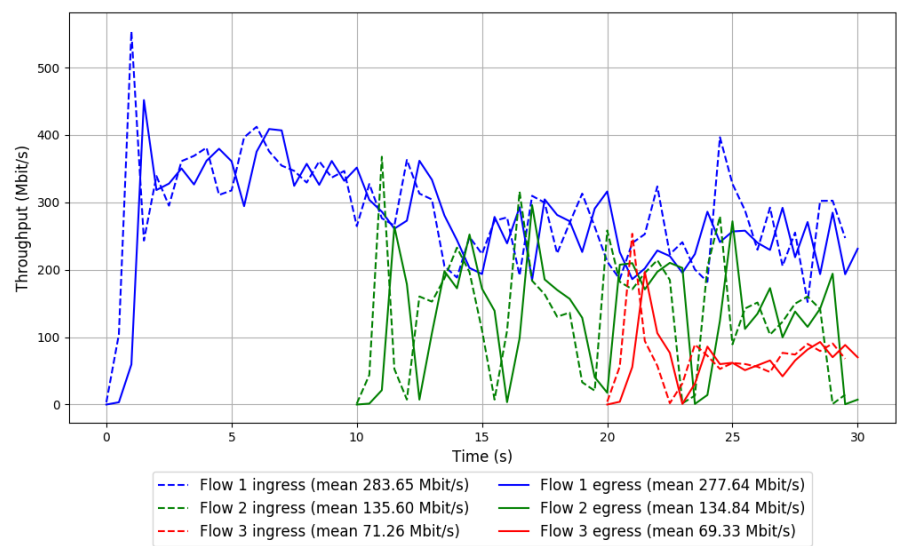


Run 4: Statistics of Verus

Start at: 2018-06-01 23:24:46  
End at: 2018-06-01 23:25:16  
Local clock offset: 0.385 ms  
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2018-06-02 04:00:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 389.82 Mbit/s  
95th percentile per-packet one-way delay: 186.473 ms  
Loss rate: 2.23%  
-- Flow 1:  
Average throughput: 277.64 Mbit/s  
95th percentile per-packet one-way delay: 196.354 ms  
Loss rate: 2.46%  
-- Flow 2:  
Average throughput: 134.84 Mbit/s  
95th percentile per-packet one-way delay: 149.281 ms  
Loss rate: 1.09%  
-- Flow 3:  
Average throughput: 69.33 Mbit/s  
95th percentile per-packet one-way delay: 167.002 ms  
Loss rate: 3.81%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-06-01 23:47:37

End at: 2018-06-01 23:48:07

Local clock offset: 0.088 ms

Remote clock offset: 0.114 ms

# Below is generated by plot.py at 2018-06-02 04:00:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 345.76 Mbit/s

95th percentile per-packet one-way delay: 144.877 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 211.92 Mbit/s

95th percentile per-packet one-way delay: 151.707 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 164.13 Mbit/s

95th percentile per-packet one-way delay: 134.285 ms

Loss rate: 1.11%

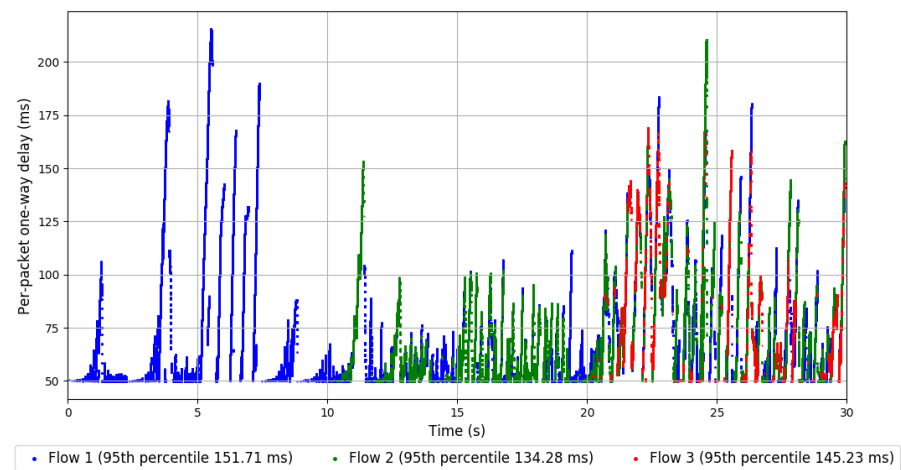
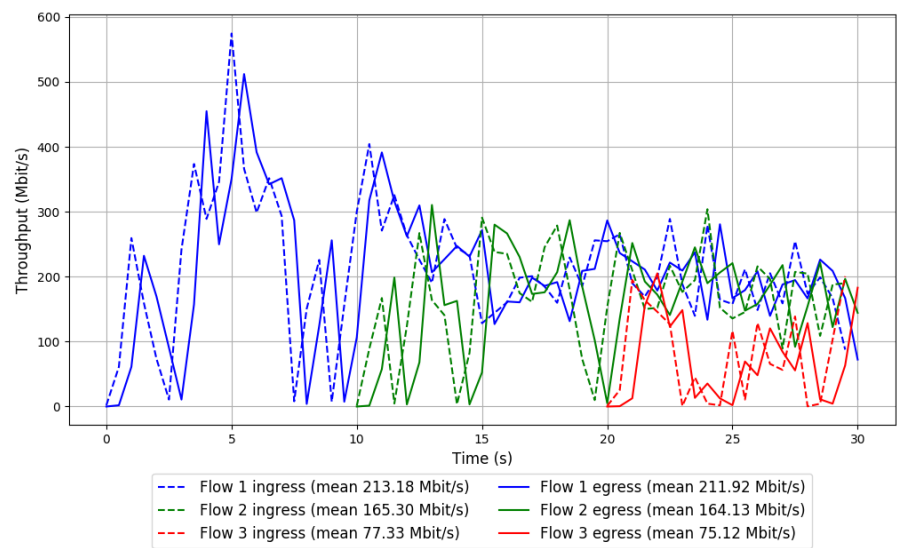
-- Flow 3:

Average throughput: 75.12 Mbit/s

95th percentile per-packet one-way delay: 145.231 ms

Loss rate: 3.79%

Run 5: Report of Verus — Data Link

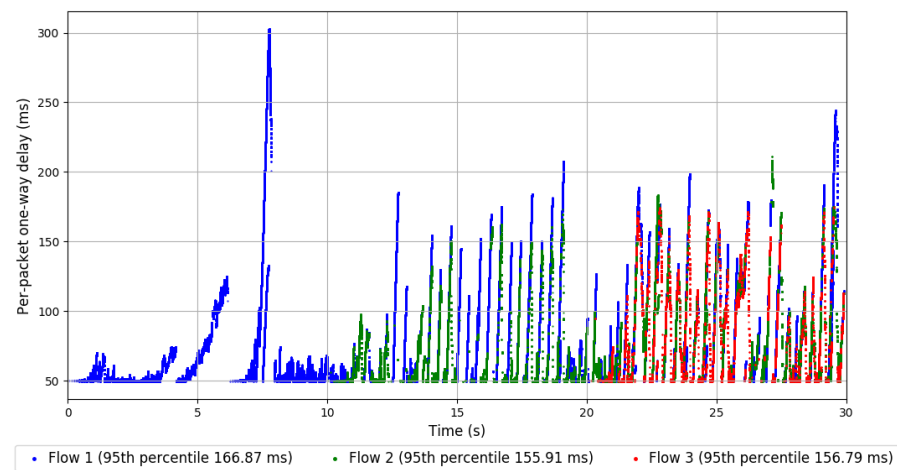
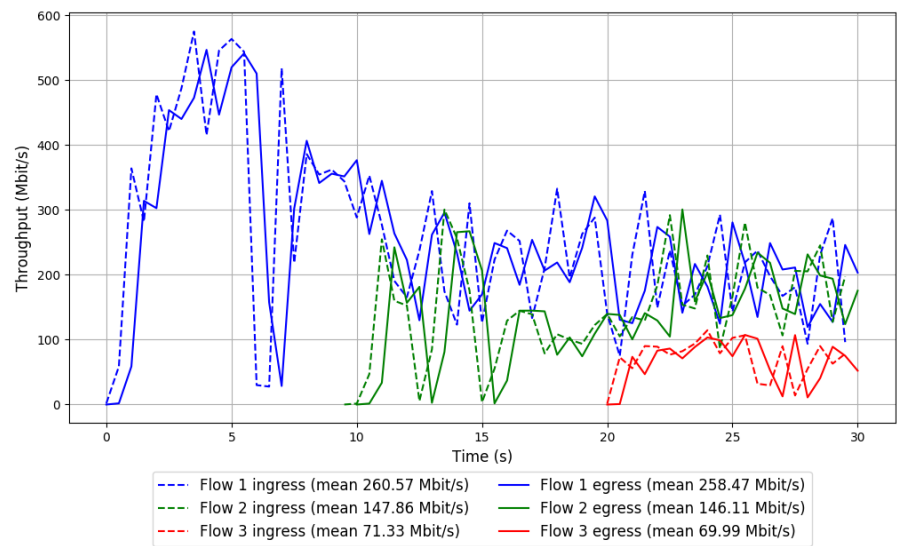


Run 6: Statistics of Verus

Start at: 2018-06-02 00:10:31  
End at: 2018-06-02 00:11:01  
Local clock offset: -0.1 ms  
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2018-06-02 04:01:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 378.77 Mbit/s  
95th percentile per-packet one-way delay: 161.825 ms  
Loss rate: 1.18%  
-- Flow 1:  
Average throughput: 258.47 Mbit/s  
95th percentile per-packet one-way delay: 166.870 ms  
Loss rate: 0.85%  
-- Flow 2:  
Average throughput: 146.11 Mbit/s  
95th percentile per-packet one-way delay: 155.912 ms  
Loss rate: 1.63%  
-- Flow 3:  
Average throughput: 69.99 Mbit/s  
95th percentile per-packet one-way delay: 156.787 ms  
Loss rate: 2.89%

Run 6: Report of Verus — Data Link



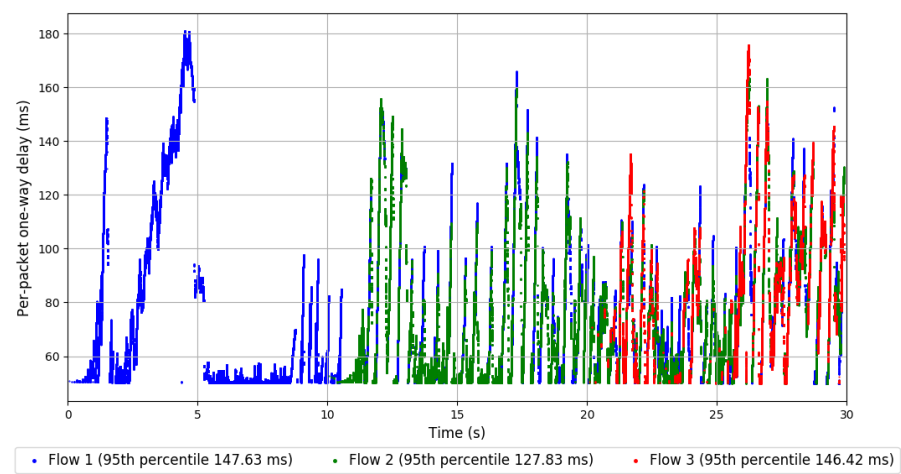
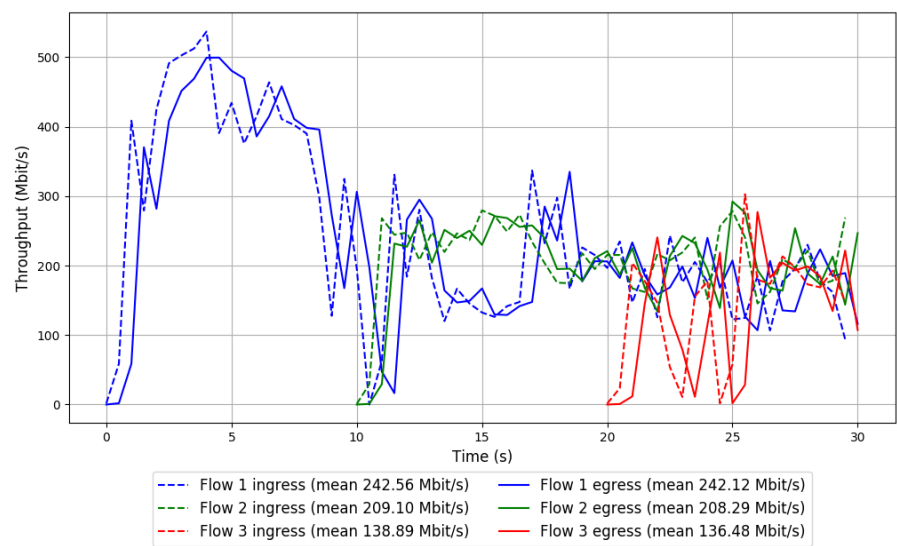
Run 7: Statistics of Verus

Start at: 2018-06-02 00:33:46  
End at: 2018-06-02 00:34:16  
Local clock offset: 0.082 ms  
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2018-06-02 04:02:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 424.85 Mbit/s  
95th percentile per-packet one-way delay: 141.798 ms  
Loss rate: 0.60%  
-- Flow 1:  
Average throughput: 242.12 Mbit/s  
95th percentile per-packet one-way delay: 147.634 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 208.29 Mbit/s  
95th percentile per-packet one-way delay: 127.825 ms  
Loss rate: 0.92%  
-- Flow 3:  
Average throughput: 136.48 Mbit/s  
95th percentile per-packet one-way delay: 146.416 ms  
Loss rate: 2.73%



Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-06-02 00:56:33

End at: 2018-06-02 00:57:03

Local clock offset: 0.109 ms

Remote clock offset: 0.056 ms

# Below is generated by plot.py at 2018-06-02 04:02:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 362.76 Mbit/s

95th percentile per-packet one-way delay: 227.514 ms

Loss rate: 4.98%

-- Flow 1:

Average throughput: 282.69 Mbit/s

95th percentile per-packet one-way delay: 238.749 ms

Loss rate: 5.33%

-- Flow 2:

Average throughput: 94.50 Mbit/s

95th percentile per-packet one-way delay: 164.436 ms

Loss rate: 2.50%

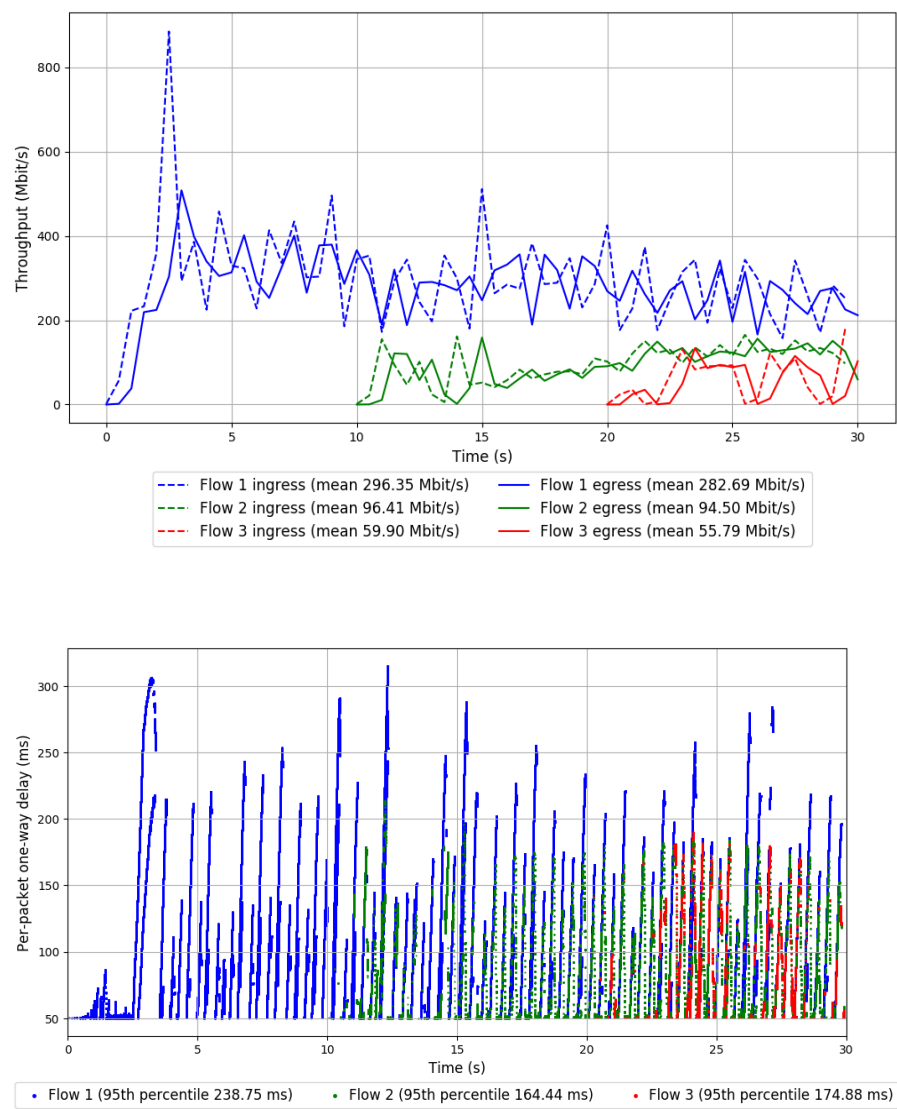
-- Flow 3:

Average throughput: 55.79 Mbit/s

95th percentile per-packet one-way delay: 174.877 ms

Loss rate: 7.86%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-06-02 01:19:23

End at: 2018-06-02 01:19:53

Local clock offset: 0.392 ms

Remote clock offset: 0.119 ms

# Below is generated by plot.py at 2018-06-02 04:03:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 296.45 Mbit/s

95th percentile per-packet one-way delay: 137.766 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 201.26 Mbit/s

95th percentile per-packet one-way delay: 139.224 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 91.11 Mbit/s

95th percentile per-packet one-way delay: 133.954 ms

Loss rate: 0.00%

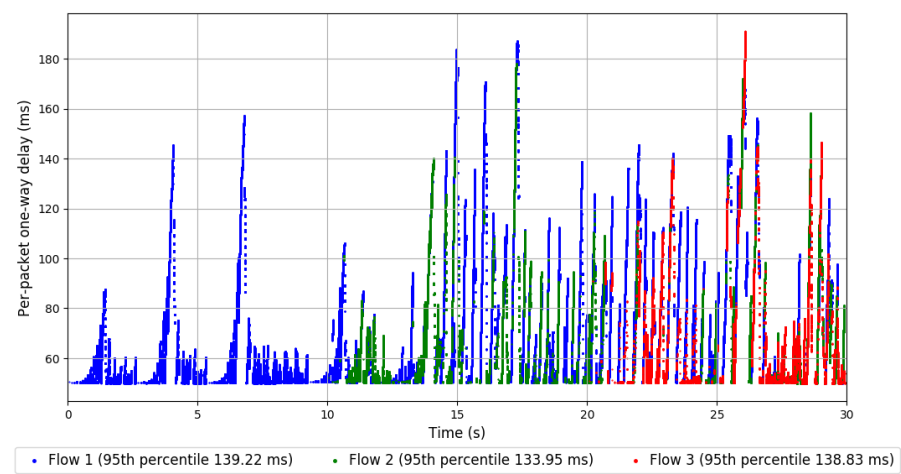
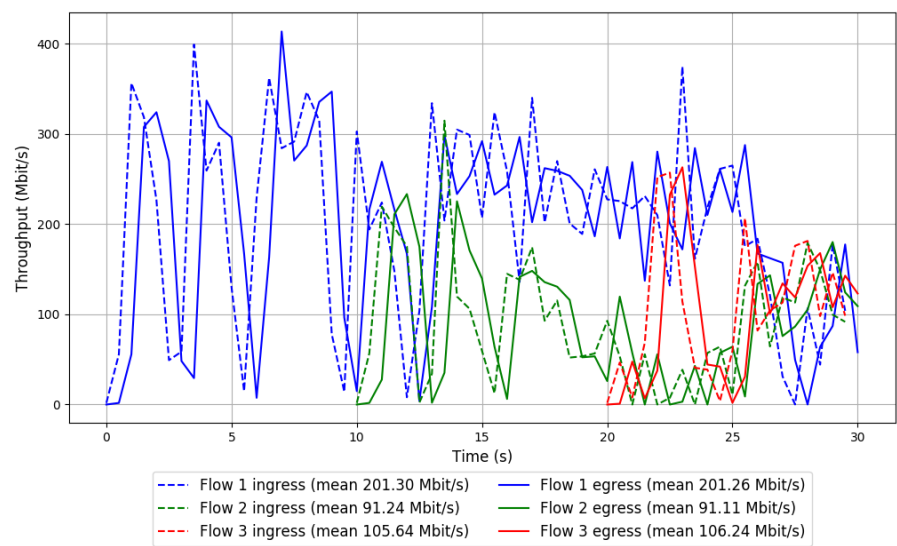
-- Flow 3:

Average throughput: 106.24 Mbit/s

95th percentile per-packet one-way delay: 138.826 ms

Loss rate: 0.50%

Run 9: Report of Verus — Data Link

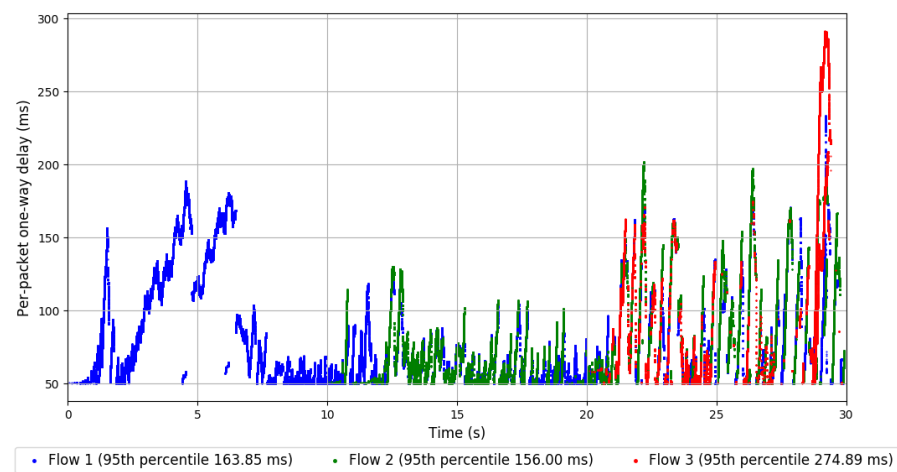
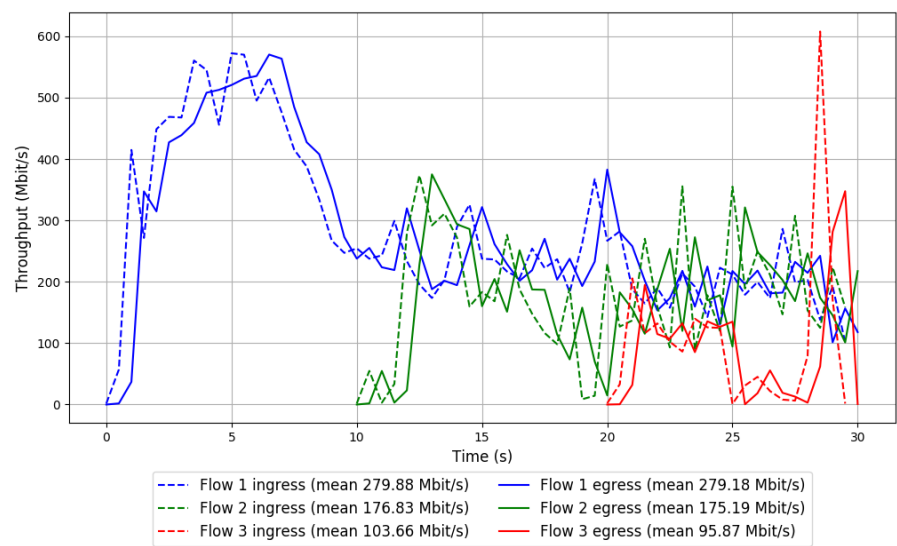


Run 10: Statistics of Verus

Start at: 2018-06-02 01:42:34  
End at: 2018-06-02 01:43:04  
Local clock offset: 0.258 ms  
Remote clock offset: -0.353 ms

# Below is generated by plot.py at 2018-06-02 04:06:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 426.87 Mbit/s  
95th percentile per-packet one-way delay: 165.314 ms  
Loss rate: 1.43%  
-- Flow 1:  
Average throughput: 279.18 Mbit/s  
95th percentile per-packet one-way delay: 163.847 ms  
Loss rate: 0.59%  
-- Flow 2:  
Average throughput: 175.19 Mbit/s  
95th percentile per-packet one-way delay: 156.005 ms  
Loss rate: 1.36%  
-- Flow 3:  
Average throughput: 95.87 Mbit/s  
95th percentile per-packet one-way delay: 274.890 ms  
Loss rate: 8.57%

Run 10: Report of Verus — Data Link



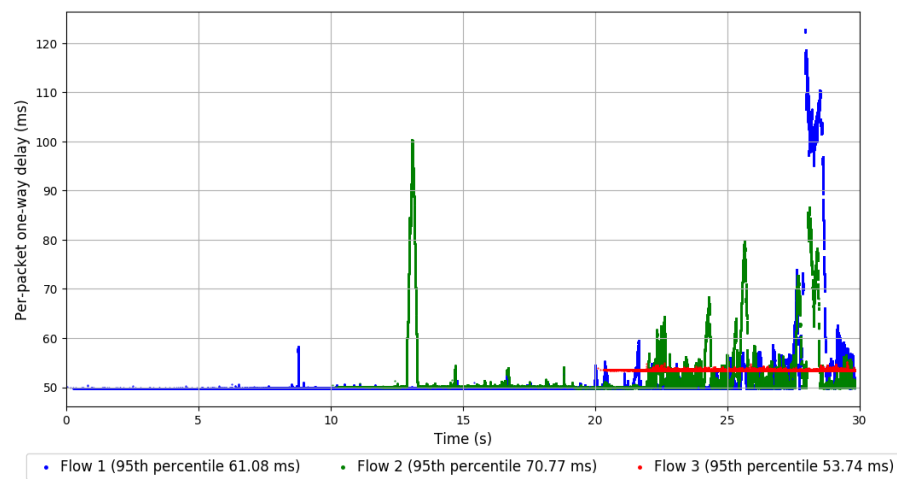
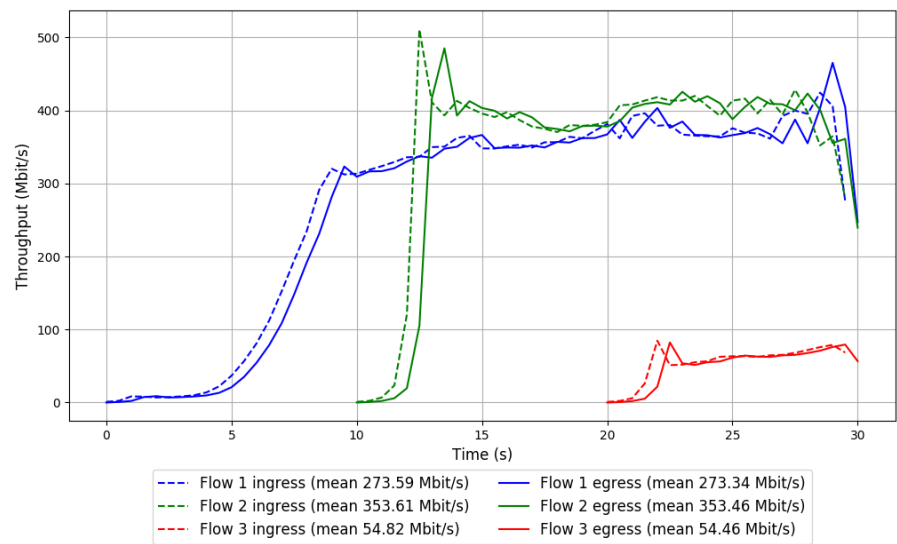
Run 1: Statistics of PCC-Vivace

Start at: 2018-06-01 22:19:39  
End at: 2018-06-01 22:20:09  
Local clock offset: 0.231 ms  
Remote clock offset: -0.156 ms

# Below is generated by plot.py at 2018-06-02 04:08:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 525.78 Mbit/s  
95th percentile per-packet one-way delay: 68.146 ms  
Loss rate: 0.55%  
-- Flow 1:  
Average throughput: 273.34 Mbit/s  
95th percentile per-packet one-way delay: 61.083 ms  
Loss rate: 0.45%  
-- Flow 2:  
Average throughput: 353.46 Mbit/s  
95th percentile per-packet one-way delay: 70.770 ms  
Loss rate: 0.57%  
-- Flow 3:  
Average throughput: 54.46 Mbit/s  
95th percentile per-packet one-way delay: 53.745 ms  
Loss rate: 1.79%



Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-06-01 22:42:48

End at: 2018-06-01 22:43:18

Local clock offset: 0.511 ms

Remote clock offset: 0.022 ms

# Below is generated by plot.py at 2018-06-02 04:10:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 578.89 Mbit/s

95th percentile per-packet one-way delay: 56.796 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 364.74 Mbit/s

95th percentile per-packet one-way delay: 57.168 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 305.61 Mbit/s

95th percentile per-packet one-way delay: 56.301 ms

Loss rate: 0.45%

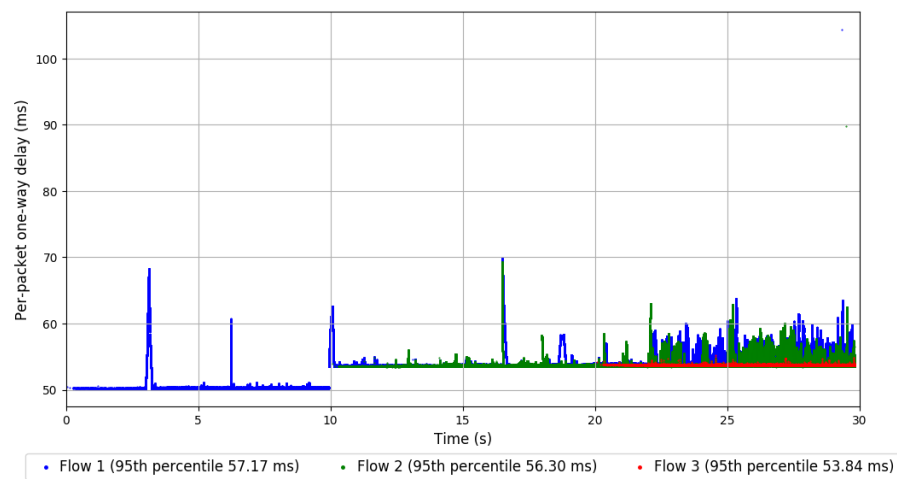
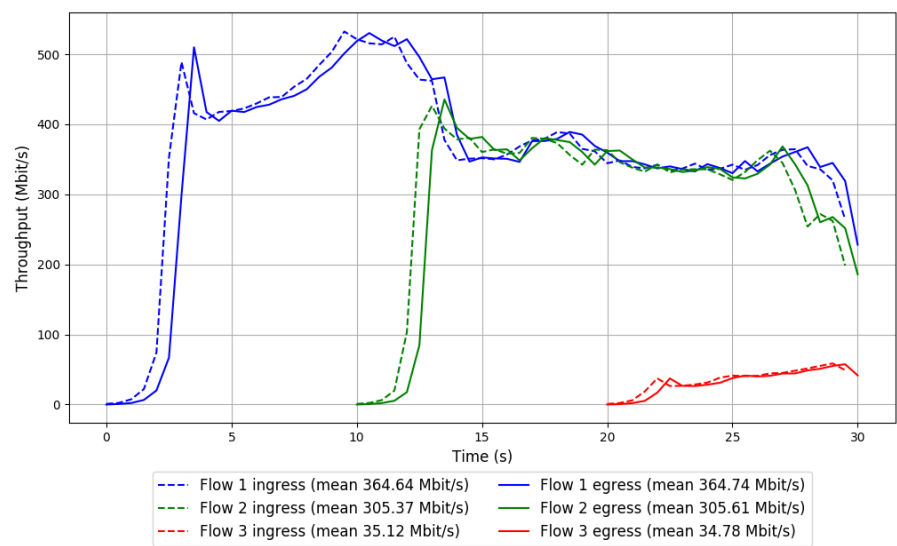
-- Flow 3:

Average throughput: 34.78 Mbit/s

95th percentile per-packet one-way delay: 53.837 ms

Loss rate: 2.04%

Run 2: Report of PCC-Vivace — Data Link

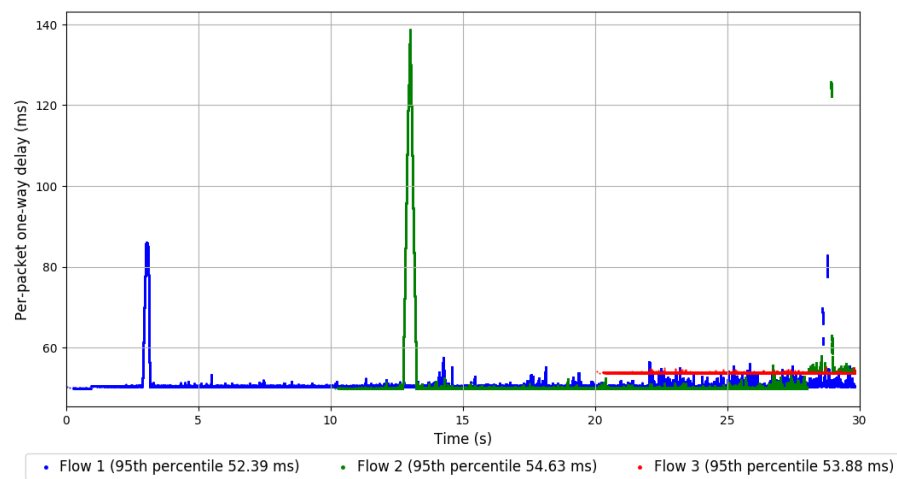
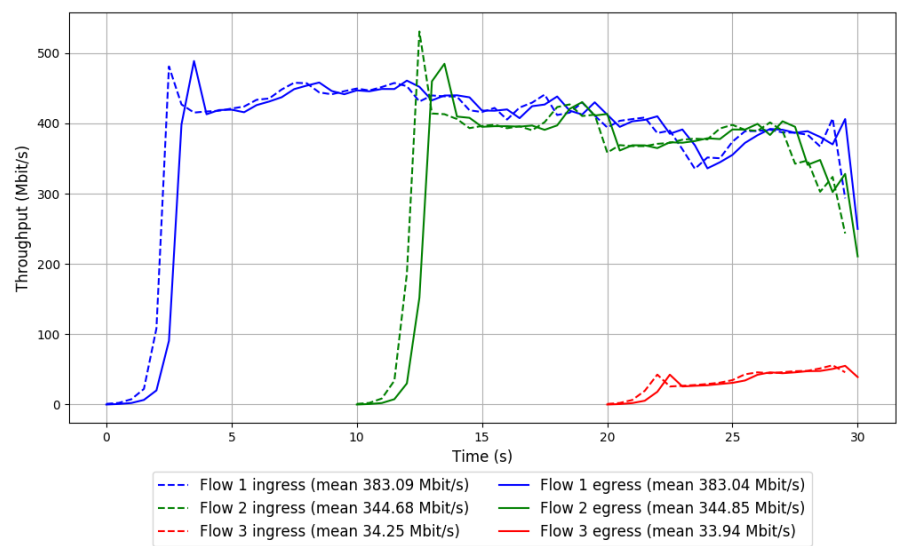


Run 3: Statistics of PCC-Vivace

Start at: 2018-06-01 23:05:50  
End at: 2018-06-01 23:06:20  
Local clock offset: 0.498 ms  
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2018-06-02 04:11:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 623.04 Mbit/s  
95th percentile per-packet one-way delay: 53.801 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 383.04 Mbit/s  
95th percentile per-packet one-way delay: 52.392 ms  
Loss rate: 0.36%  
-- Flow 2:  
Average throughput: 344.85 Mbit/s  
95th percentile per-packet one-way delay: 54.626 ms  
Loss rate: 0.47%  
-- Flow 3:  
Average throughput: 33.94 Mbit/s  
95th percentile per-packet one-way delay: 53.880 ms  
Loss rate: 2.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-06-01 23:29:00

End at: 2018-06-01 23:29:30

Local clock offset: 0.324 ms

Remote clock offset: -0.22 ms

# Below is generated by plot.py at 2018-06-02 04:11:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 558.23 Mbit/s

95th percentile per-packet one-way delay: 54.968 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 300.18 Mbit/s

95th percentile per-packet one-way delay: 54.008 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 309.92 Mbit/s

95th percentile per-packet one-way delay: 56.764 ms

Loss rate: 0.47%

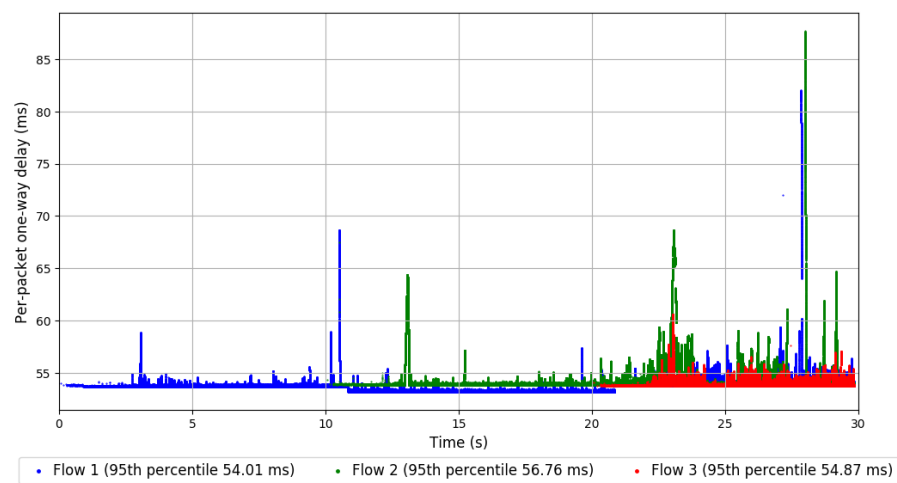
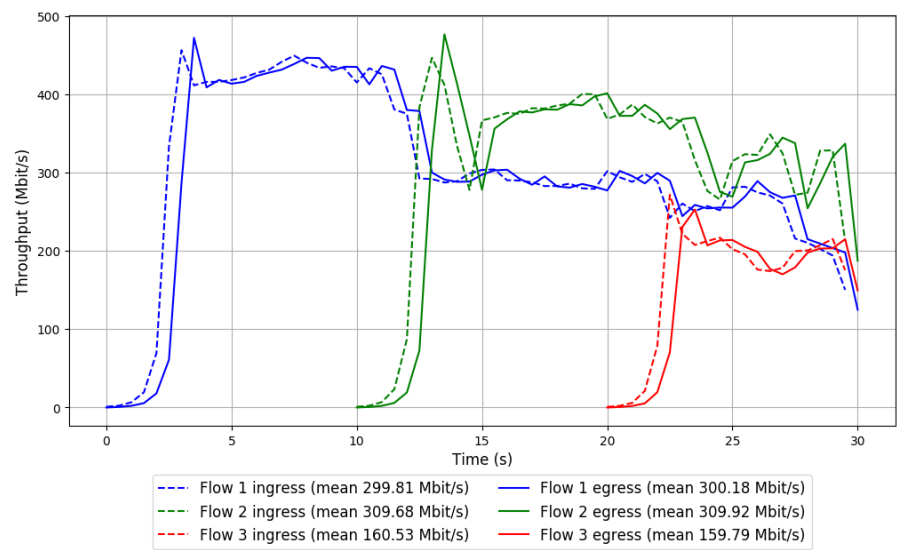
-- Flow 3:

Average throughput: 159.79 Mbit/s

95th percentile per-packet one-way delay: 54.866 ms

Loss rate: 1.57%

Run 4: Report of PCC-Vivace — Data Link



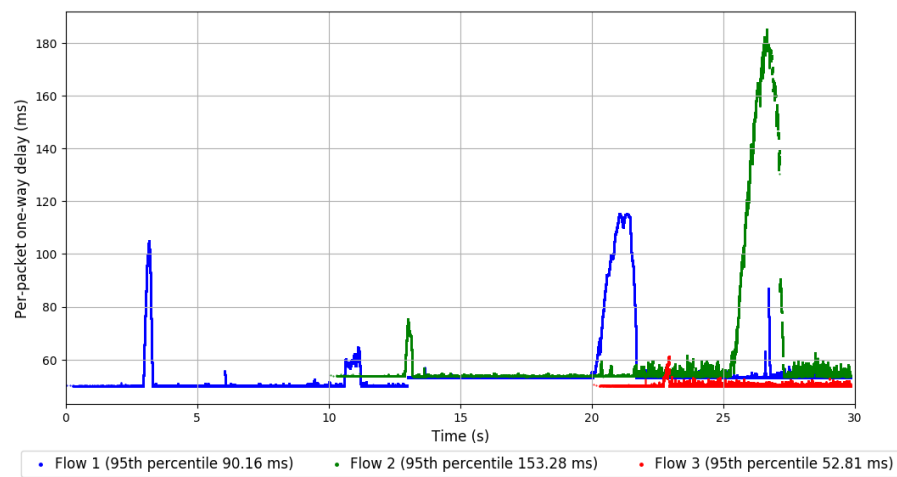
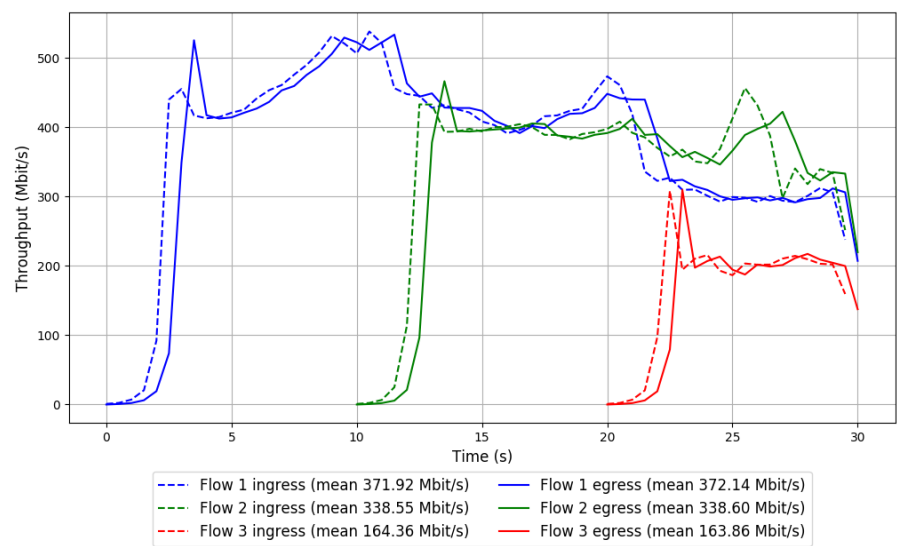
Run 5: Statistics of PCC-Vivace

Start at: 2018-06-01 23:51:45  
End at: 2018-06-01 23:52:15  
Local clock offset: 0.051 ms  
Remote clock offset: -0.129 ms

# Below is generated by plot.py at 2018-06-02 04:12:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 650.51 Mbit/s  
95th percentile per-packet one-way delay: 98.592 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 372.14 Mbit/s  
95th percentile per-packet one-way delay: 90.155 ms  
Loss rate: 0.29%  
-- Flow 2:  
Average throughput: 338.60 Mbit/s  
95th percentile per-packet one-way delay: 153.281 ms  
Loss rate: 0.52%  
-- Flow 3:  
Average throughput: 163.86 Mbit/s  
95th percentile per-packet one-way delay: 52.810 ms  
Loss rate: 1.35%



Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-06-02 00:14:40

End at: 2018-06-02 00:15:10

Local clock offset: 0.254 ms

Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2018-06-02 04:12:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 618.13 Mbit/s

95th percentile per-packet one-way delay: 54.053 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 352.36 Mbit/s

95th percentile per-packet one-way delay: 52.306 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 322.77 Mbit/s

95th percentile per-packet one-way delay: 54.250 ms

Loss rate: 0.55%

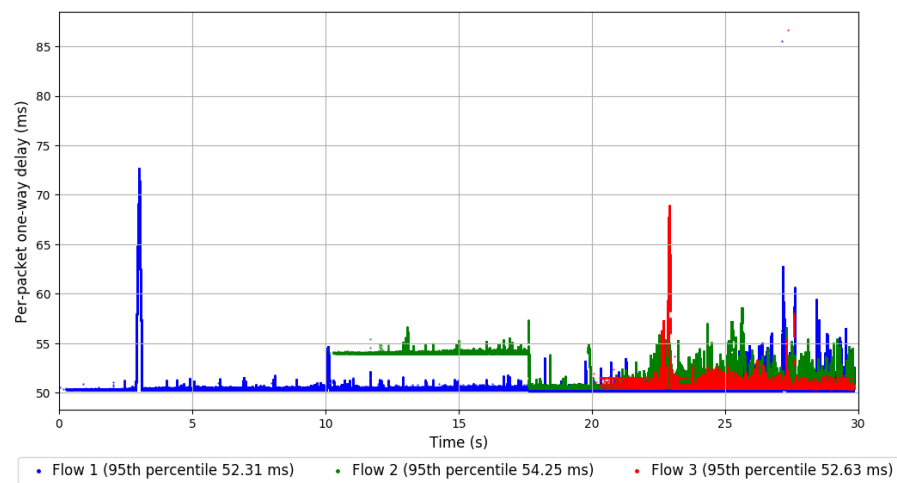
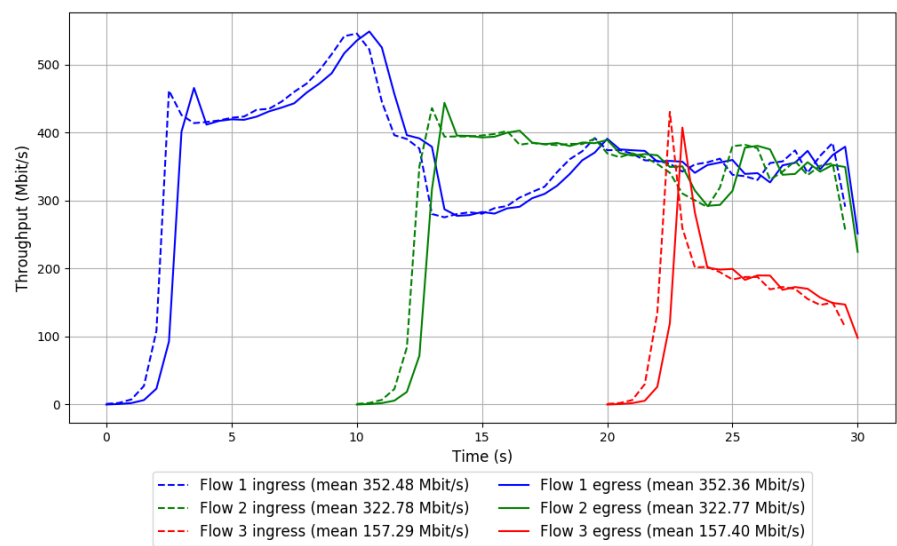
-- Flow 3:

Average throughput: 157.40 Mbit/s

95th percentile per-packet one-way delay: 52.635 ms

Loss rate: 1.01%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-06-02 00:37:58

End at: 2018-06-02 00:38:28

Local clock offset: 0.096 ms

Remote clock offset: 0.03 ms

# Below is generated by plot.py at 2018-06-02 04:13:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 595.25 Mbit/s

95th percentile per-packet one-way delay: 54.930 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 362.32 Mbit/s

95th percentile per-packet one-way delay: 54.181 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 316.33 Mbit/s

95th percentile per-packet one-way delay: 55.876 ms

Loss rate: 0.63%

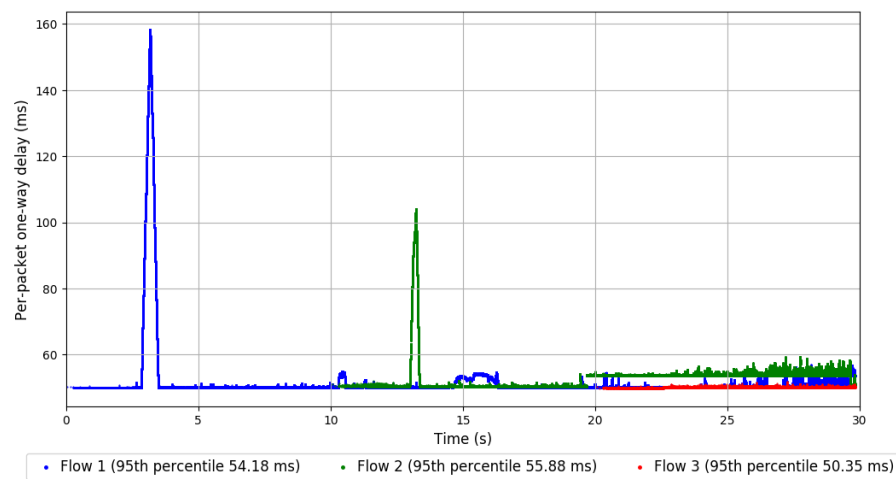
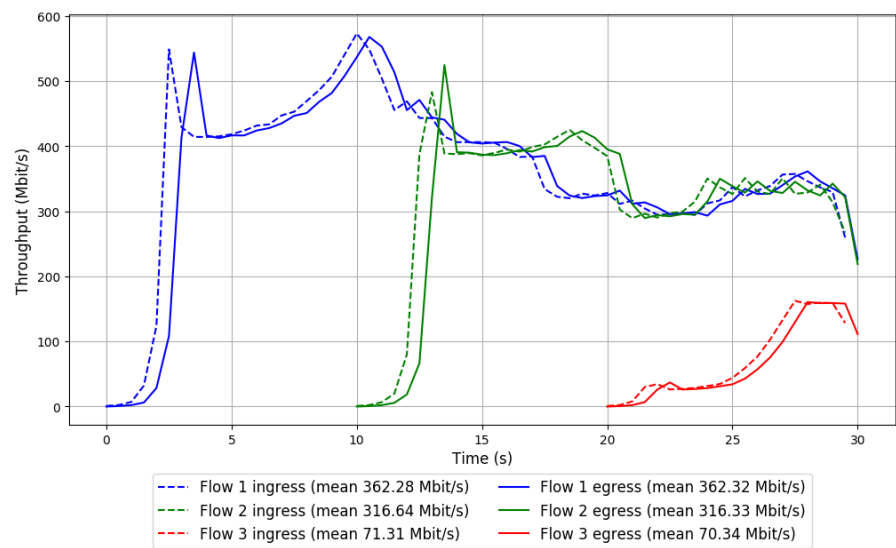
-- Flow 3:

Average throughput: 70.34 Mbit/s

95th percentile per-packet one-way delay: 50.351 ms

Loss rate: 2.39%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-06-02 01:00:42

End at: 2018-06-02 01:01:12

Local clock offset: -0.014 ms

Remote clock offset: 0.424 ms

# Below is generated by plot.py at 2018-06-02 04:14:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 589.26 Mbit/s

95th percentile per-packet one-way delay: 54.078 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 373.57 Mbit/s

95th percentile per-packet one-way delay: 54.554 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 254.39 Mbit/s

95th percentile per-packet one-way delay: 50.461 ms

Loss rate: 0.77%

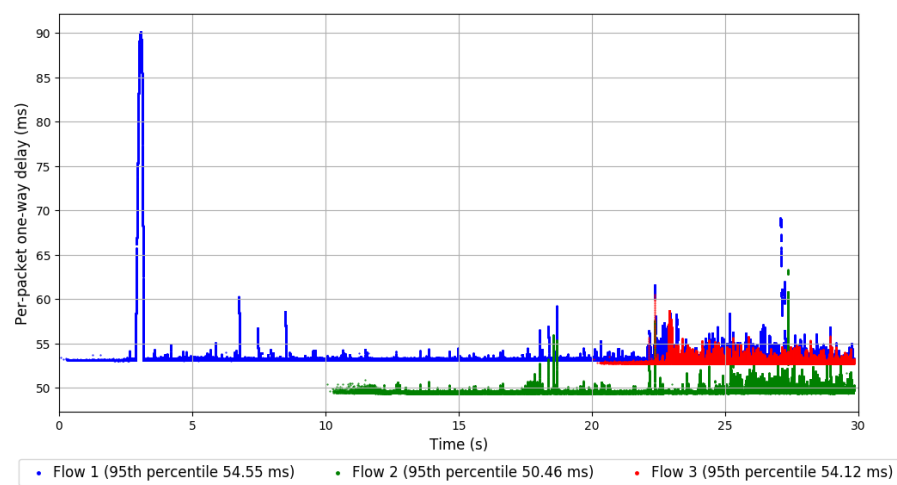
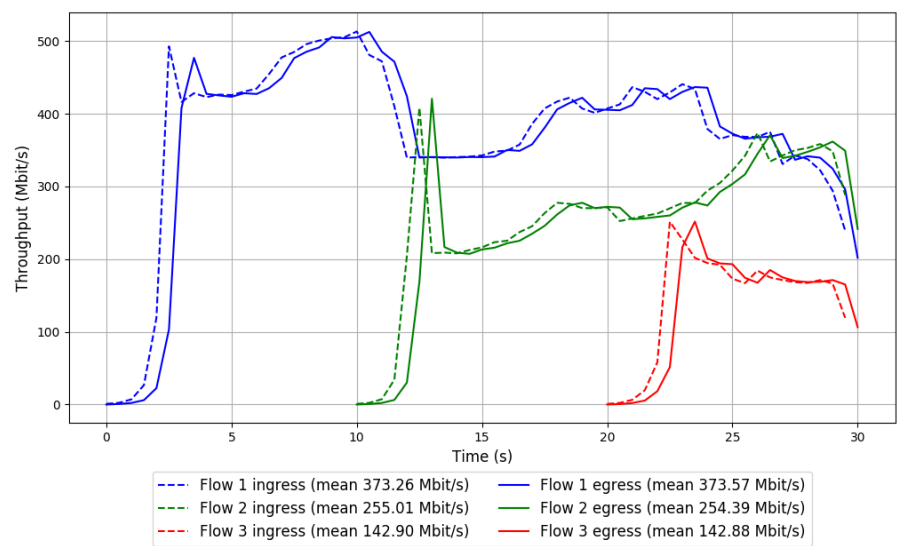
-- Flow 3:

Average throughput: 142.88 Mbit/s

95th percentile per-packet one-way delay: 54.122 ms

Loss rate: 1.10%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-06-02 01:23:27

End at: 2018-06-02 01:23:57

Local clock offset: 0.346 ms

Remote clock offset: 0.115 ms

# Below is generated by plot.py at 2018-06-02 04:15:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 622.31 Mbit/s

95th percentile per-packet one-way delay: 56.868 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 366.82 Mbit/s

95th percentile per-packet one-way delay: 53.989 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 303.41 Mbit/s

95th percentile per-packet one-way delay: 61.101 ms

Loss rate: 0.62%

-- Flow 3:

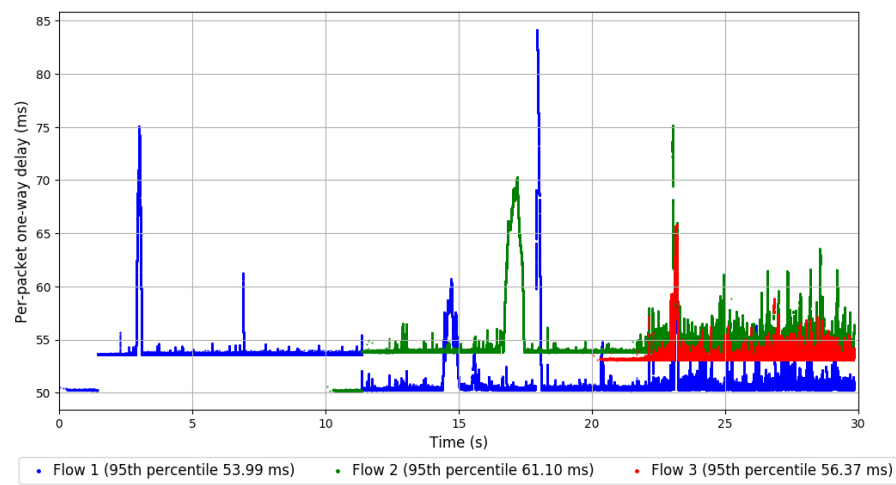
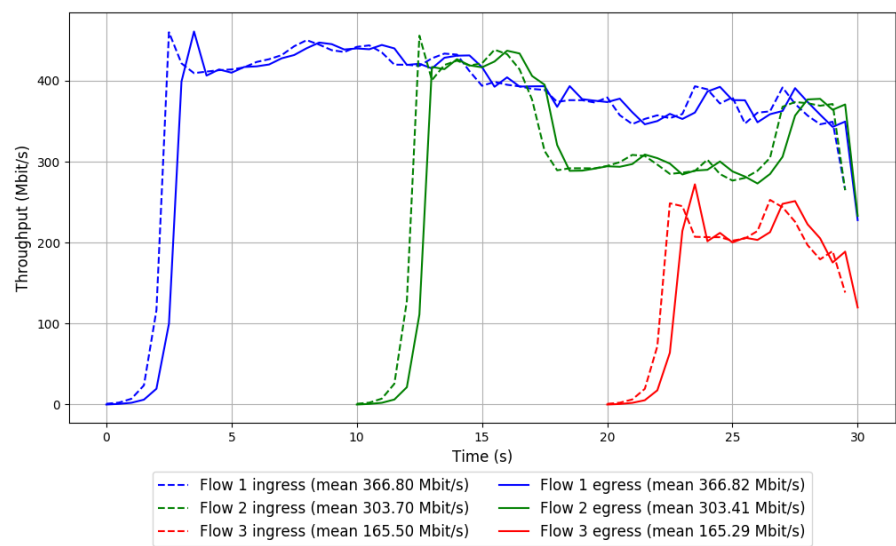
Average throughput: 165.29 Mbit/s

95th percentile per-packet one-way delay: 56.373 ms

Loss rate: 1.21%



Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-06-02 01:46:46

End at: 2018-06-02 01:47:16

Local clock offset: -0.083 ms

Remote clock offset: 0.204 ms

# Below is generated by plot.py at 2018-06-02 04:15:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 485.93 Mbit/s

95th percentile per-packet one-way delay: 52.749 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 228.54 Mbit/s

95th percentile per-packet one-way delay: 53.034 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 303.67 Mbit/s

95th percentile per-packet one-way delay: 50.701 ms

Loss rate: 0.45%

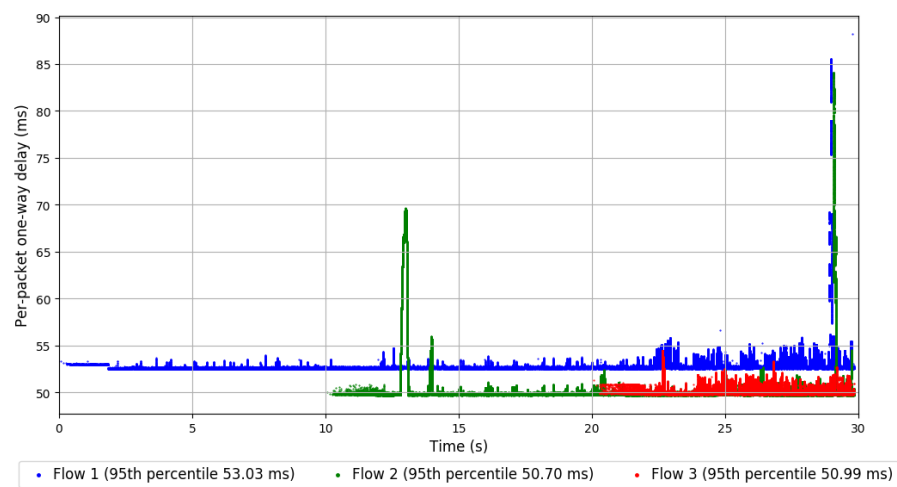
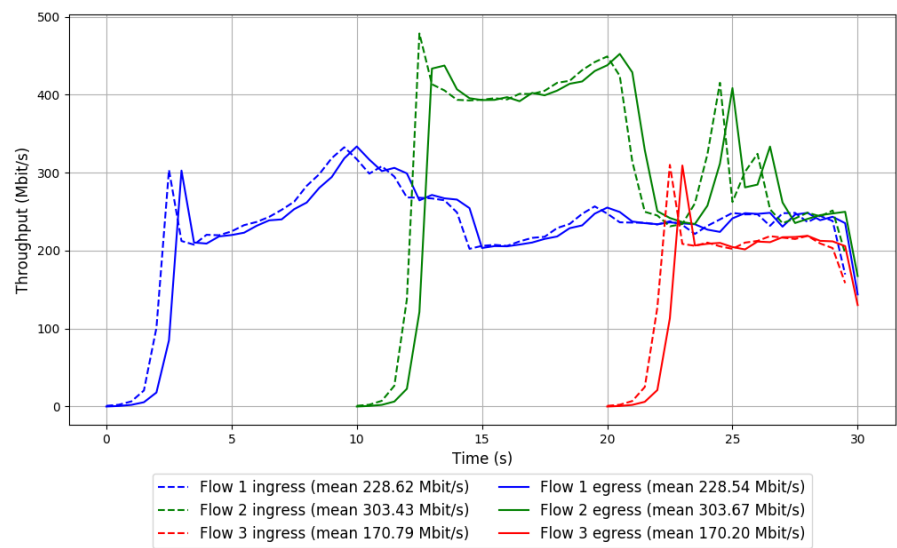
-- Flow 3:

Average throughput: 170.20 Mbit/s

95th percentile per-packet one-way delay: 50.994 ms

Loss rate: 1.40%

Run 10: Report of PCC-Vivace — Data Link

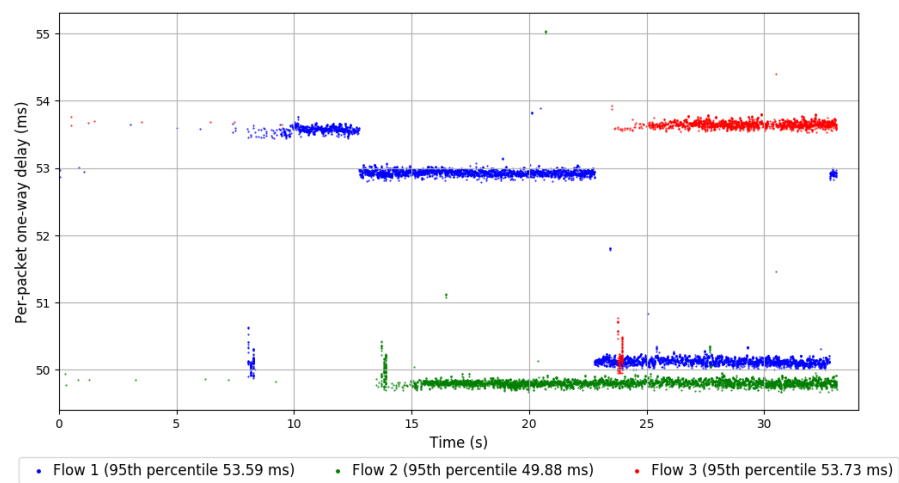
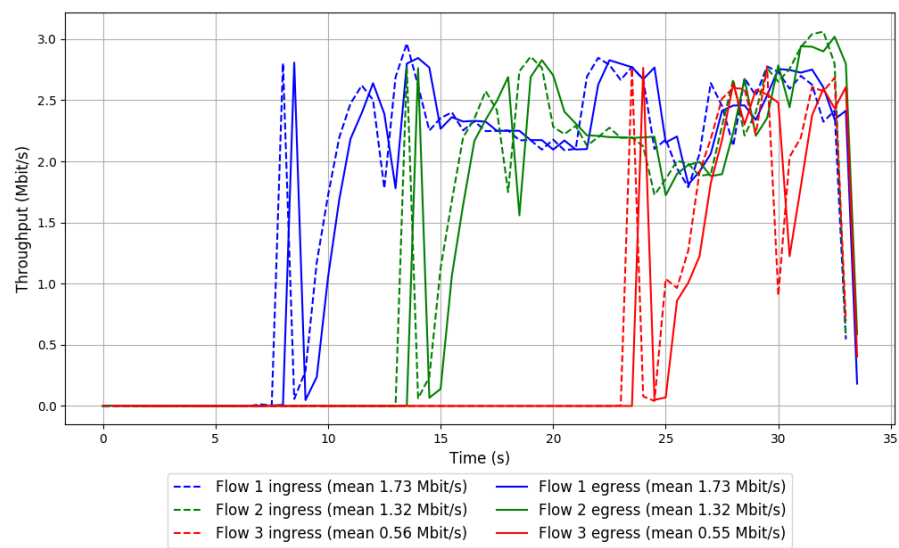


```
Run 1: Statistics of WebRTC media

Start at: 2018-06-01 22:10:31
End at: 2018-06-01 22:11:01
Local clock offset: 0.411 ms
Remote clock offset: 0.106 ms

# Below is generated by plot.py at 2018-06-02 04:15:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.58 Mbit/s
95th percentile per-packet one-way delay: 53.669 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 1.73 Mbit/s
95th percentile per-packet one-way delay: 53.587 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 49.885 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 53.732 ms
Loss rate: 1.90%
```

Run 1: Report of WebRTC media — Data Link

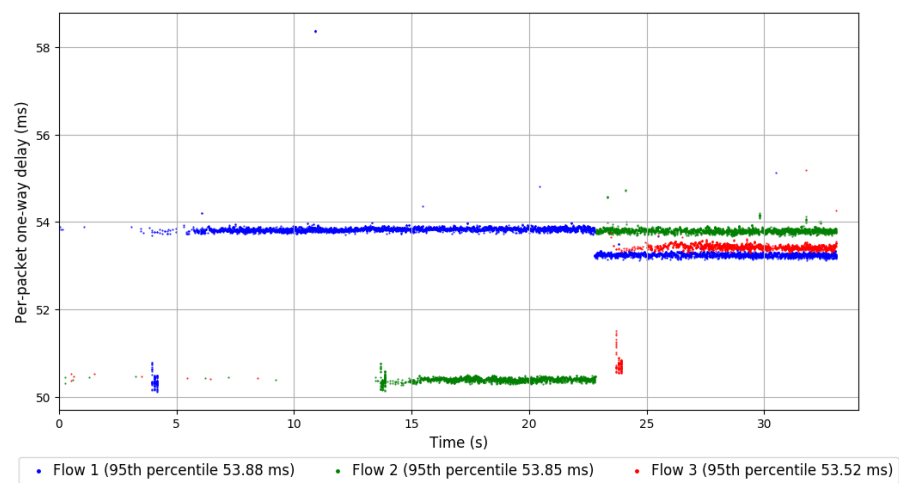
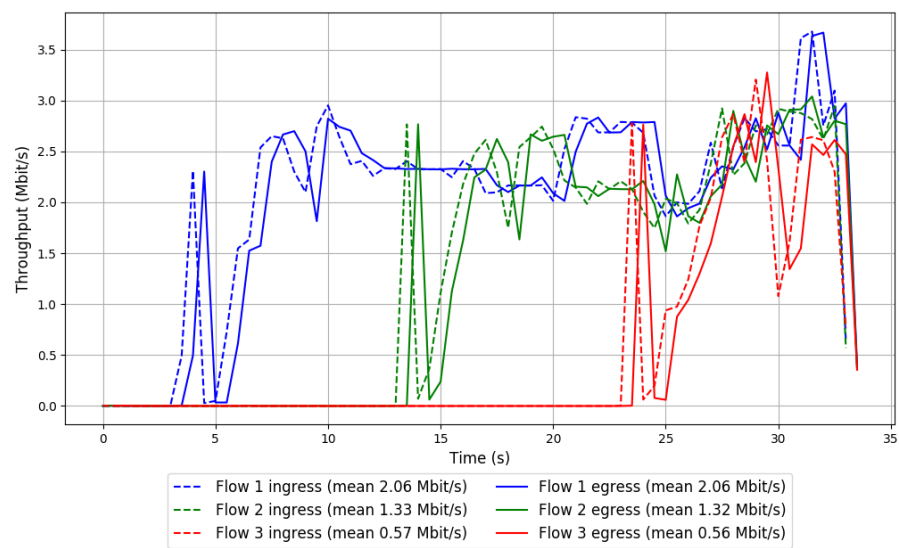


Run 2: Statistics of WebRTC media

Start at: 2018-06-01 22:33:38  
End at: 2018-06-01 22:34:08  
Local clock offset: 0.624 ms  
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2018-06-02 04:15:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.92 Mbit/s  
95th percentile per-packet one-way delay: 53.873 ms  
Loss rate: 0.69%  
-- Flow 1:  
Average throughput: 2.06 Mbit/s  
95th percentile per-packet one-way delay: 53.883 ms  
Loss rate: 0.47%  
-- Flow 2:  
Average throughput: 1.32 Mbit/s  
95th percentile per-packet one-way delay: 53.851 ms  
Loss rate: 0.65%  
-- Flow 3:  
Average throughput: 0.56 Mbit/s  
95th percentile per-packet one-way delay: 53.518 ms  
Loss rate: 1.60%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-06-01 22:56:49

End at: 2018-06-01 22:57:19

Local clock offset: 0.585 ms

Remote clock offset: 0.095 ms

# Below is generated by plot.py at 2018-06-02 04:15:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.89 Mbit/s

95th percentile per-packet one-way delay: 53.627 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 50.338 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 53.657 ms

Loss rate: 0.62%

-- Flow 3:

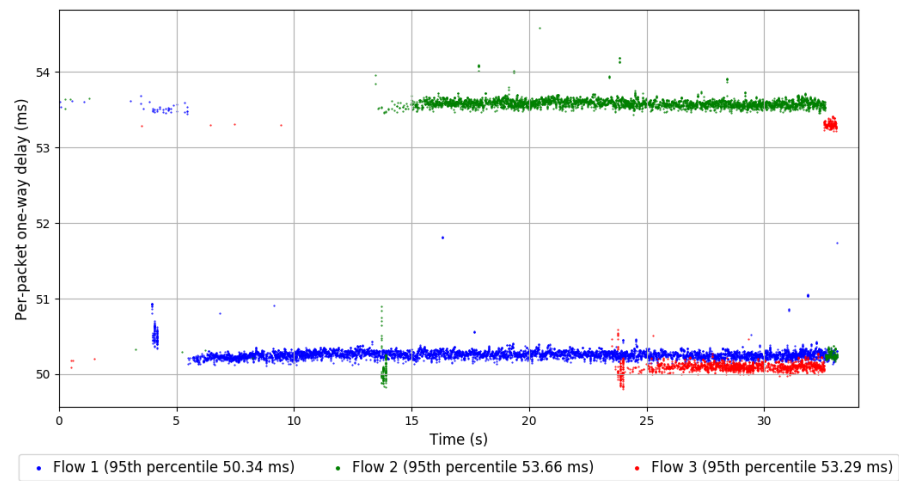
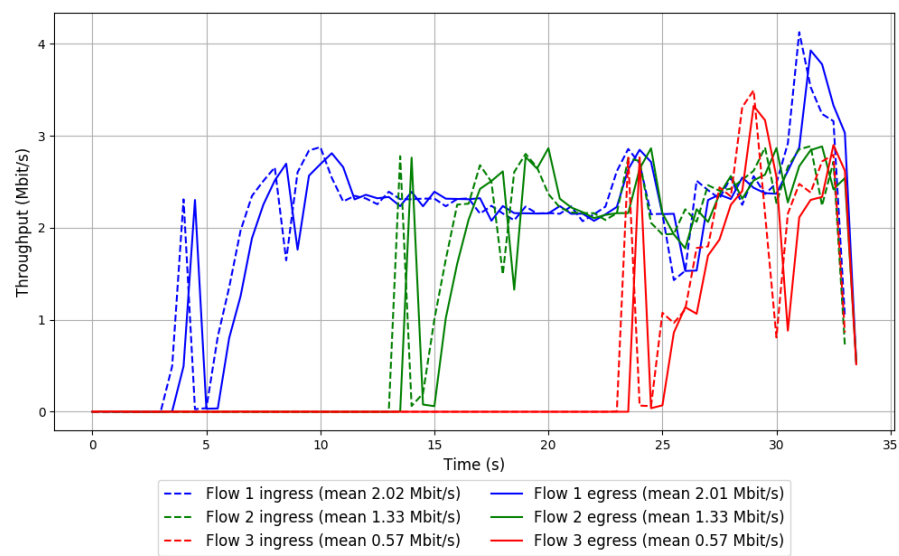
Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 53.288 ms

Loss rate: 1.84%



Run 3: Report of WebRTC media — Data Link

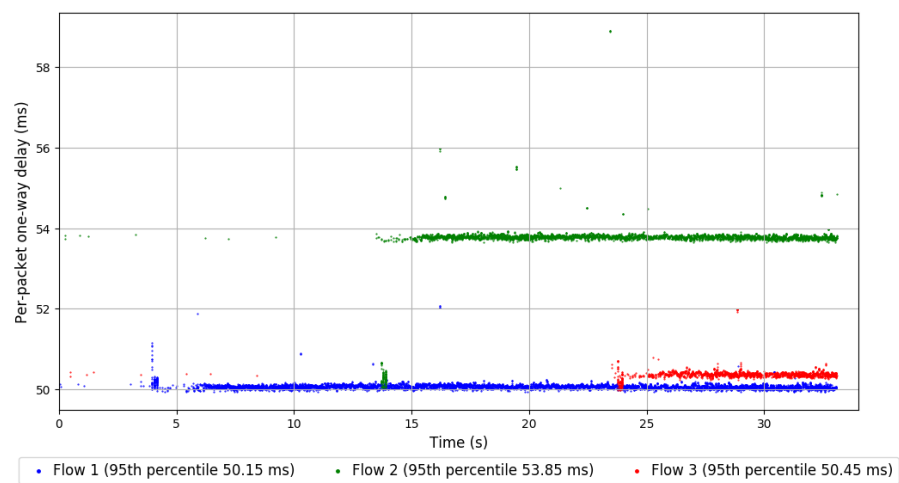
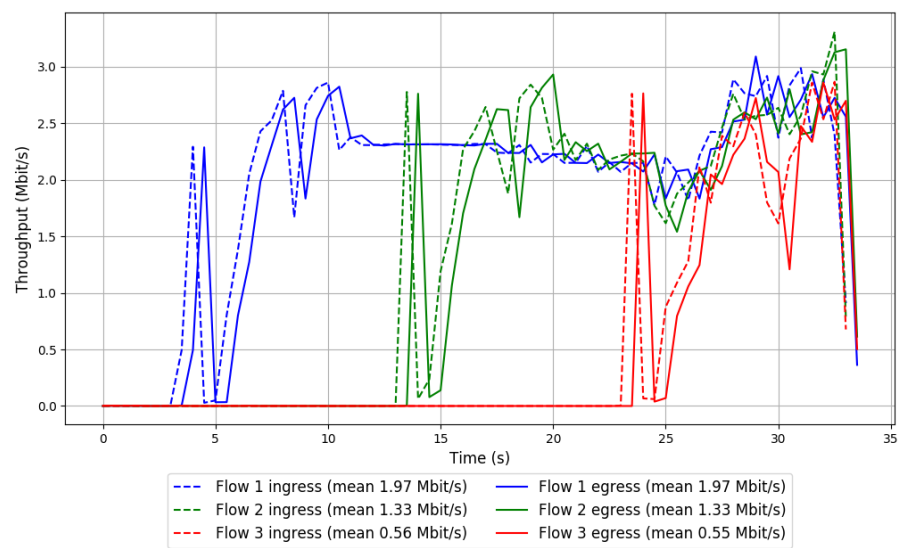


Run 4: Statistics of WebRTC media

Start at: 2018-06-01 23:19:54  
End at: 2018-06-01 23:20:24  
Local clock offset: 0.685 ms  
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2018-06-02 04:15:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.83 Mbit/s  
95th percentile per-packet one-way delay: 53.825 ms  
Loss rate: 0.70%  
-- Flow 1:  
Average throughput: 1.97 Mbit/s  
95th percentile per-packet one-way delay: 50.148 ms  
Loss rate: 0.56%  
-- Flow 2:  
Average throughput: 1.33 Mbit/s  
95th percentile per-packet one-way delay: 53.850 ms  
Loss rate: 0.63%  
-- Flow 3:  
Average throughput: 0.55 Mbit/s  
95th percentile per-packet one-way delay: 50.453 ms  
Loss rate: 1.39%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-06-01 23:42:39

End at: 2018-06-01 23:43:09

Local clock offset: 0.26 ms

Remote clock offset: 0.023 ms

# Below is generated by plot.py at 2018-06-02 04:15:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.86 Mbit/s

95th percentile per-packet one-way delay: 53.758 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 50.394 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 53.782 ms

Loss rate: 0.70%

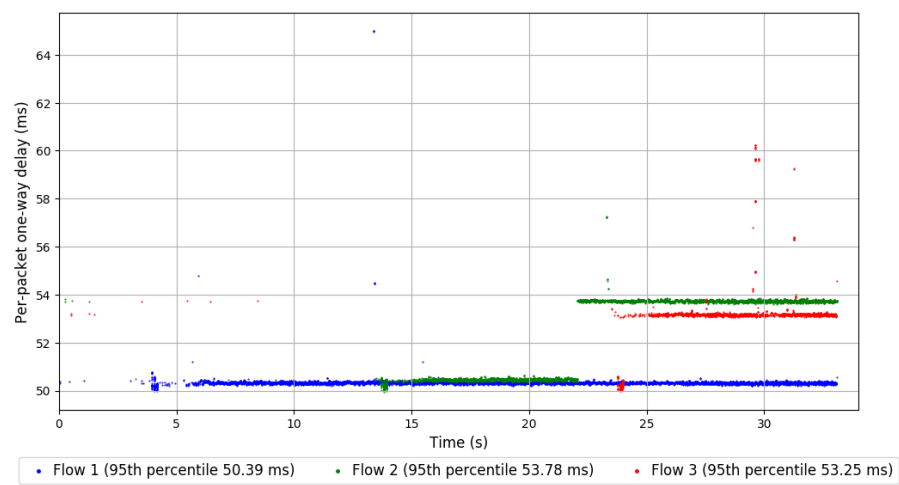
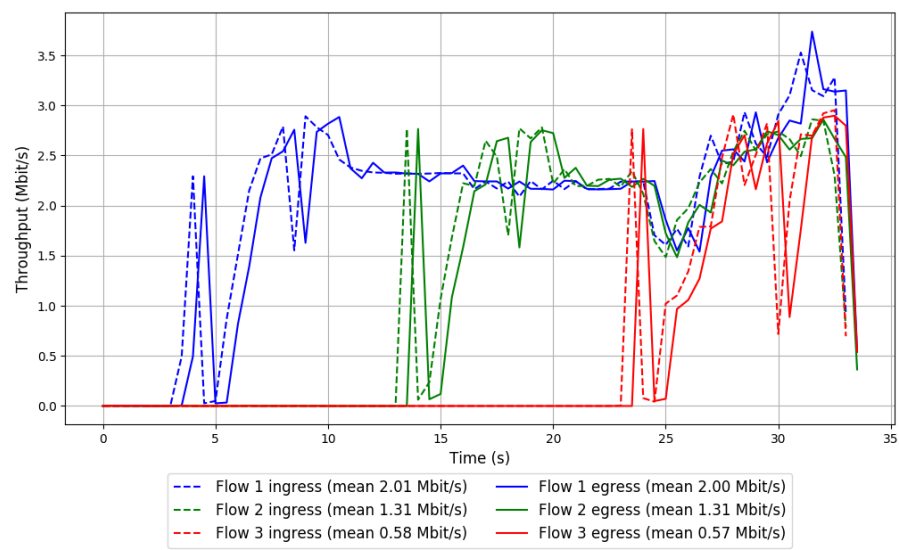
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 53.254 ms

Loss rate: 1.34%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-06-02 00:05:35

End at: 2018-06-02 00:06:05

Local clock offset: -0.062 ms

Remote clock offset: 0.024 ms

# Below is generated by plot.py at 2018-06-02 04:15:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.79 Mbit/s

95th percentile per-packet one-way delay: 53.169 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 53.193 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 50.096 ms

Loss rate: 0.59%

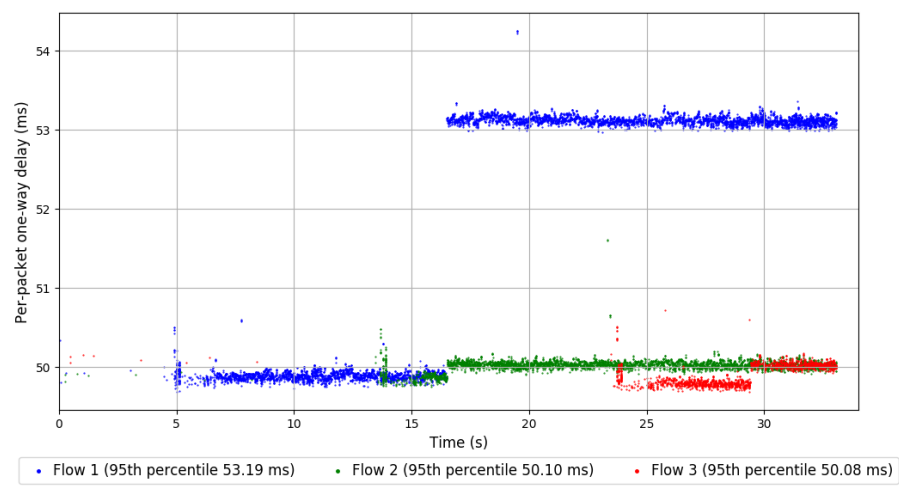
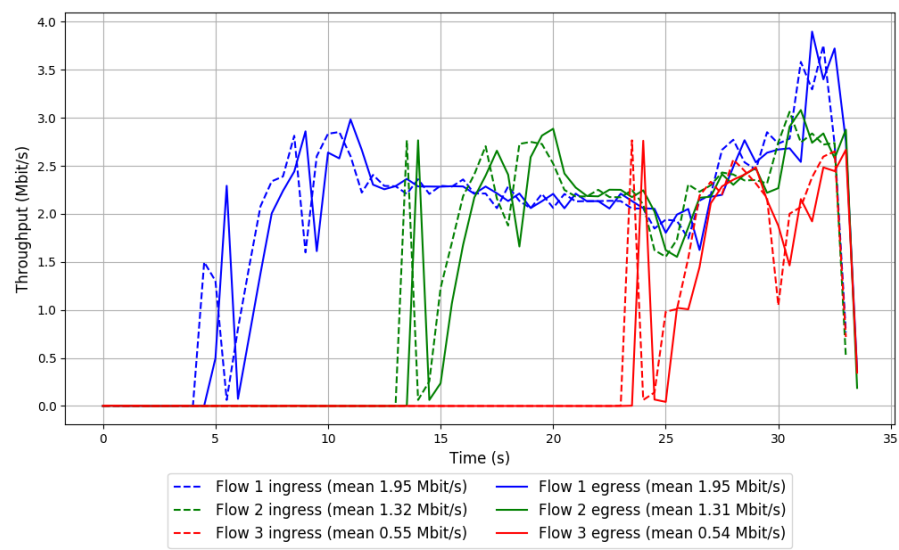
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 50.076 ms

Loss rate: 1.93%

Run 6: Report of WebRTC media — Data Link



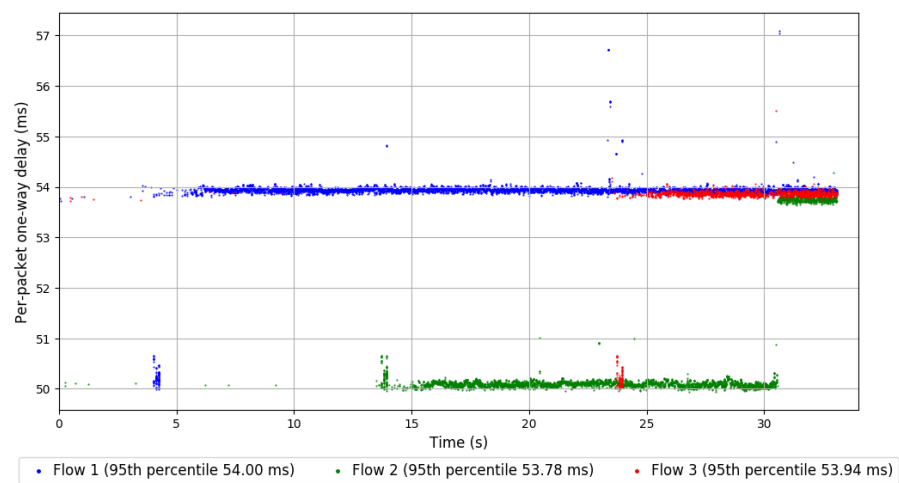
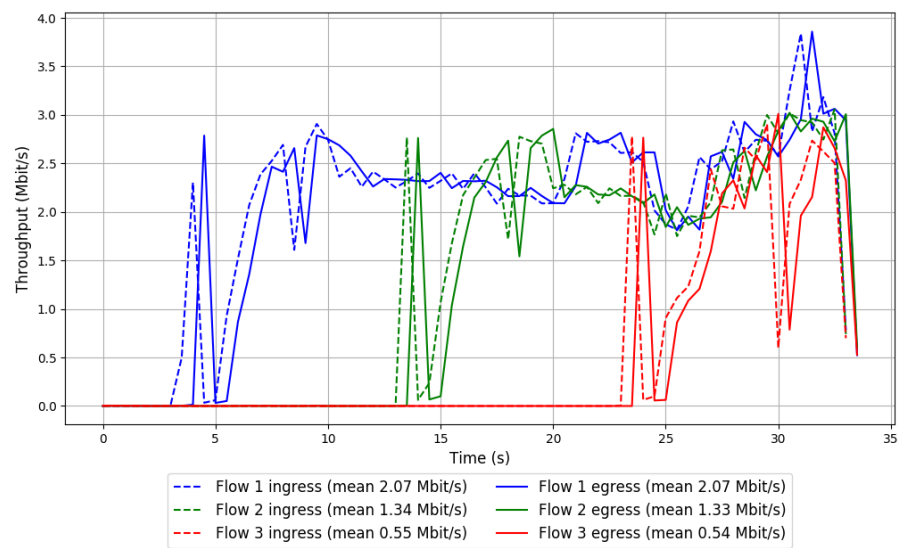
Run 7: Statistics of WebRTC media

Start at: 2018-06-02 00:28:51  
End at: 2018-06-02 00:29:21  
Local clock offset: 0.082 ms  
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2018-06-02 04:15:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.93 Mbit/s  
95th percentile per-packet one-way delay: 53.989 ms  
Loss rate: 0.61%  
-- Flow 1:  
Average throughput: 2.07 Mbit/s  
95th percentile per-packet one-way delay: 54.004 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 1.33 Mbit/s  
95th percentile per-packet one-way delay: 53.778 ms  
Loss rate: 0.63%  
-- Flow 3:  
Average throughput: 0.54 Mbit/s  
95th percentile per-packet one-way delay: 53.937 ms  
Loss rate: 1.46%



Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-06-02 00:51:35

End at: 2018-06-02 00:52:05

Local clock offset: 0.038 ms

Remote clock offset: 0.23 ms

# Below is generated by plot.py at 2018-06-02 04:15:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.84 Mbit/s

95th percentile per-packet one-way delay: 53.553 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 53.571 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 53.478 ms

Loss rate: 0.62%

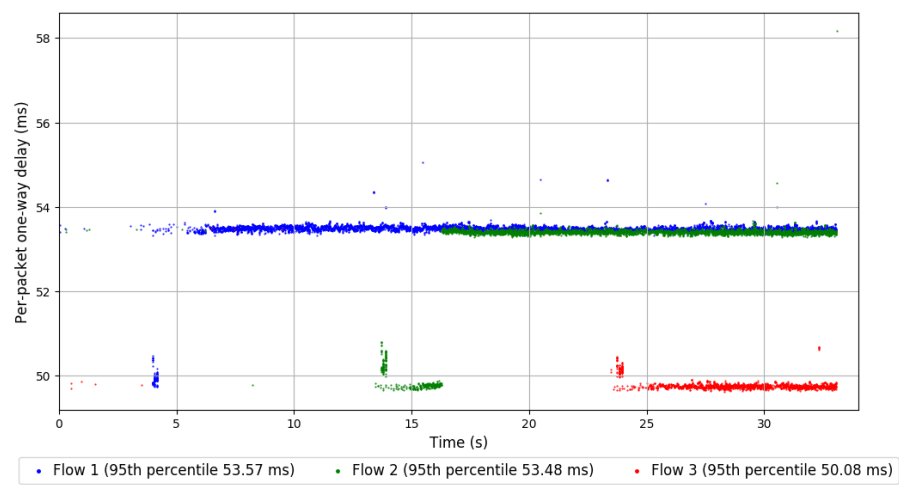
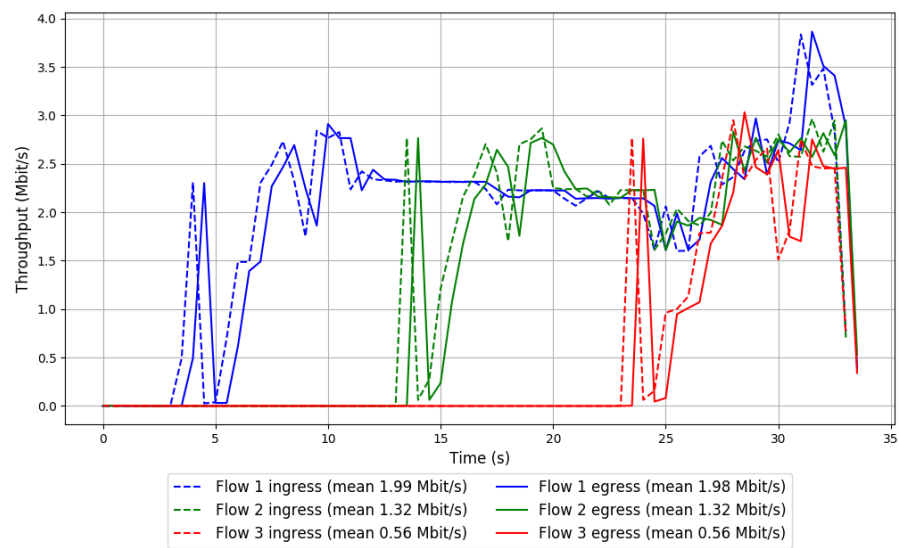
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 50.082 ms

Loss rate: 1.55%

Run 8: Report of WebRTC media — Data Link

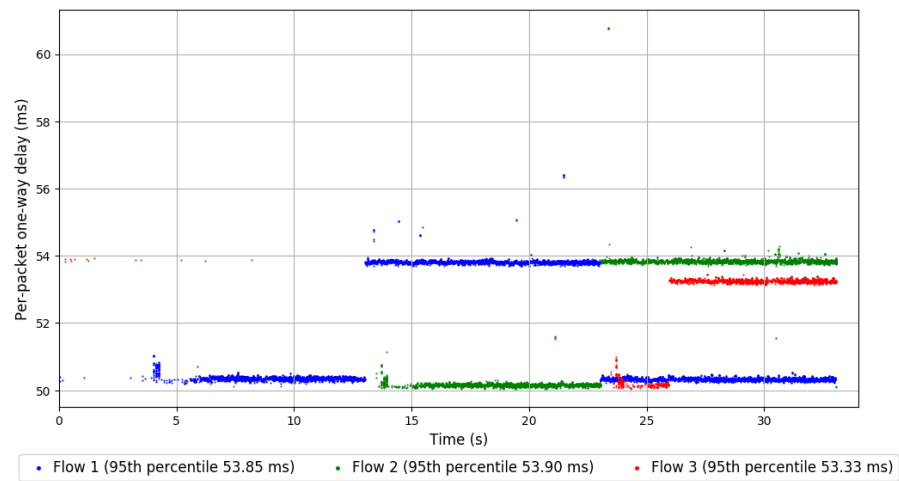
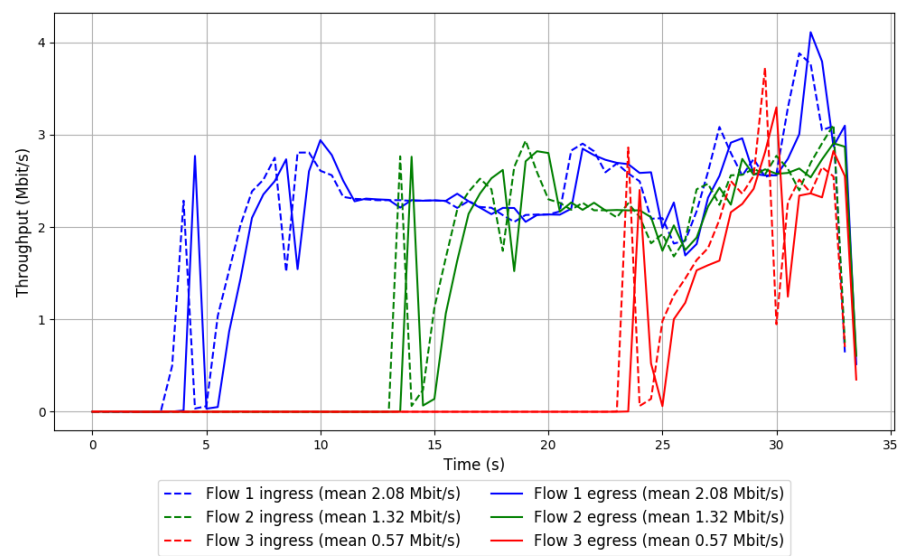


Run 9: Statistics of WebRTC media

Start at: 2018-06-02 01:14:28  
End at: 2018-06-02 01:14:58  
Local clock offset: 0.183 ms  
Remote clock offset: -0.118 ms

# Below is generated by plot.py at 2018-06-02 04:15:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.95 Mbit/s  
95th percentile per-packet one-way delay: 53.873 ms  
Loss rate: 0.61%  
-- Flow 1:  
Average throughput: 2.08 Mbit/s  
95th percentile per-packet one-way delay: 53.852 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 1.32 Mbit/s  
95th percentile per-packet one-way delay: 53.900 ms  
Loss rate: 0.64%  
-- Flow 3:  
Average throughput: 0.57 Mbit/s  
95th percentile per-packet one-way delay: 53.325 ms  
Loss rate: 1.41%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-02 01:37:38  
End at: 2018-06-02 01:38:08  
Local clock offset: 0.492 ms  
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2018-06-02 04:15:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.90 Mbit/s  
95th percentile per-packet one-way delay: 54.288 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 2.04 Mbit/s  
95th percentile per-packet one-way delay: 54.308 ms  
Loss rate: 0.55%  
-- Flow 2:  
Average throughput: 1.34 Mbit/s  
95th percentile per-packet one-way delay: 53.575 ms  
Loss rate: 0.41%  
-- Flow 3:  
Average throughput: 0.54 Mbit/s  
95th percentile per-packet one-way delay: 53.804 ms  
Loss rate: 1.45%

Run 10: Report of WebRTC media — Data Link

