

## Pantheon Report

Generated at 2018-07-13 00:00:10 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

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

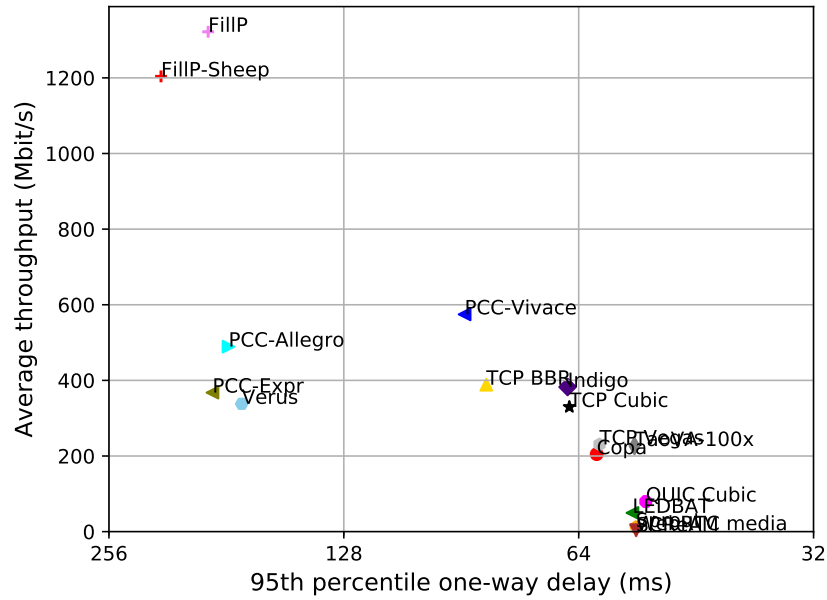
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

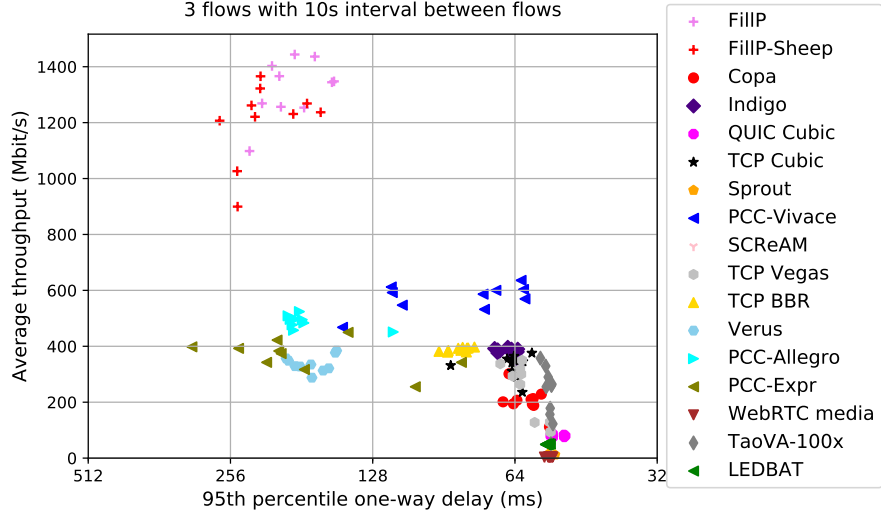
Git summary:

```
branch: master @ 9250dbeec7fb57193cdff1ba8c440b4e16ab30f0
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ 37162fe9af85249aeccac061c93e75640ef710b5
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfc58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
  M src/ScreamClient
  M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webRTC @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from GCE 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	203.06	194.56	169.92	82.22	84.07	87.15	0.39	0.55	1.39
Copa	10	119.78	95.79	65.93	59.96	60.47	58.33	0.29	0.40	1.26
TCP Cubic	10	201.86	161.81	61.88	65.67	64.39	63.53	0.36	1.03	2.99
FillP	10	694.74	637.14	619.20	173.01	204.09	184.13	4.76	5.30	6.41
FillP-Sheep	10	595.87	630.33	577.04	227.59	209.84	167.26	6.86	6.86	4.80
Indigo	10	212.11	189.12	135.30	64.90	66.52	69.16	0.34	0.52	1.24
LEDBAT	10	32.25	21.22	9.86	54.70	54.19	53.37	0.69	1.06	2.18
PCC-Allegro	10	461.67	25.17	33.31	179.99	167.55	146.93	1.64	1.83	2.06
PCC-Expr	10	249.13	149.93	57.87	190.43	135.79	129.01	4.65	3.57	5.62
QUIC Cubic	10	49.00	37.23	17.57	52.14	51.79	51.23	0.51	0.68	0.65
SCReAM	10	0.21	0.21	0.22	53.26	52.97	53.32	0.36	0.60	1.02
Sprout	10	5.99	6.07	6.31	54.06	54.05	53.47	0.37	0.62	1.16
TaoVA-100x	10	158.90	87.71	63.51	53.69	55.15	54.61	0.21	0.37	0.89
TCP Vegas	10	132.38	81.10	134.86	59.91	58.78	59.56	0.37	0.54	1.33
Verus	10	208.05	146.28	101.82	158.88	173.26	221.62	1.46	1.57	2.58
PCC-Vivace	10	331.22	298.19	138.77	89.35	95.26	63.57	0.55	0.48	1.50
WebRTC media	10	2.01	1.35	0.55	53.72	53.39	53.29	0.46	0.66	1.58

Run 1: Statistics of TCP BBR

Start at: 2018-07-12 16:39:03

End at: 2018-07-12 16:39:33

Local clock offset: -0.054 ms

Remote clock offset: -1.36 ms

# Below is generated by plot.py at 2018-07-12 21:13:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 385.67 Mbit/s

95th percentile per-packet one-way delay: 83.301 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 201.87 Mbit/s

95th percentile per-packet one-way delay: 81.054 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 188.94 Mbit/s

95th percentile per-packet one-way delay: 83.580 ms

Loss rate: 0.61%

-- Flow 3:

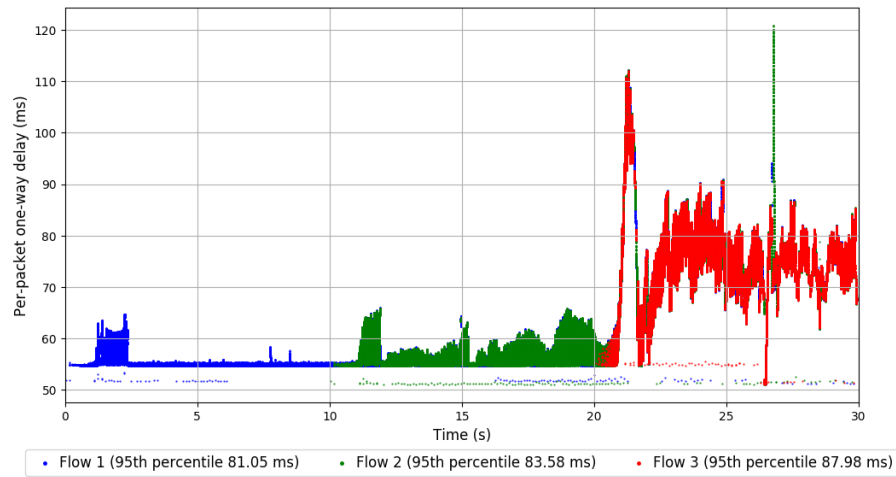
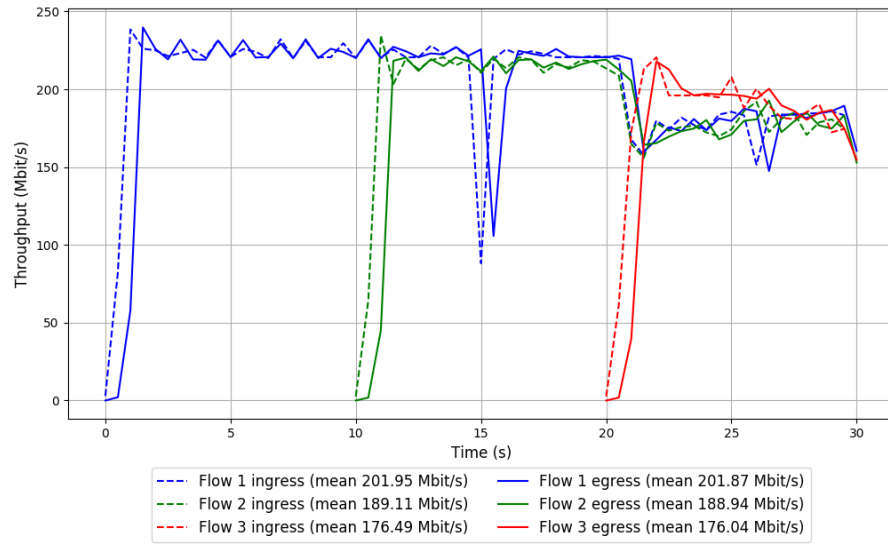
Average throughput: 176.04 Mbit/s

95th percentile per-packet one-way delay: 87.980 ms

Loss rate: 1.35%



# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-07-12 17:03:53

End at: 2018-07-12 17:04:23

Local clock offset: -0.049 ms

Remote clock offset: 1.101 ms

# Below is generated by plot.py at 2018-07-12 21:13:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 379.10 Mbit/s

95th percentile per-packet one-way delay: 88.897 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 205.05 Mbit/s

95th percentile per-packet one-way delay: 86.452 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 184.91 Mbit/s

95th percentile per-packet one-way delay: 88.731 ms

Loss rate: 0.65%

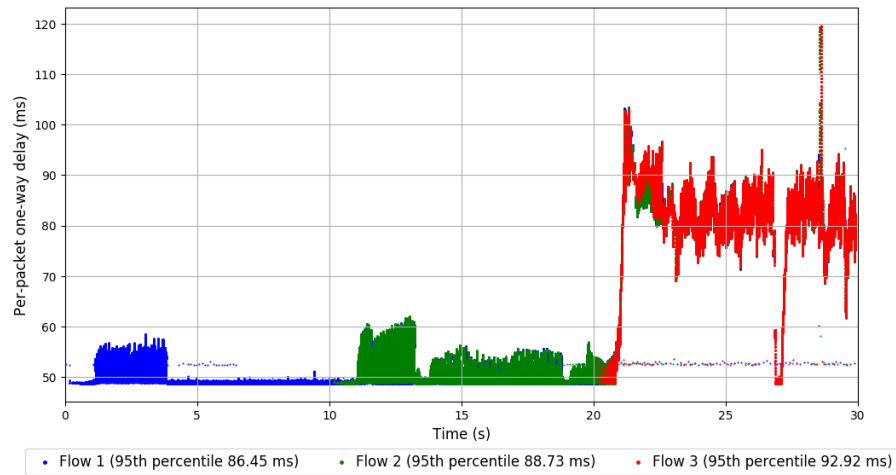
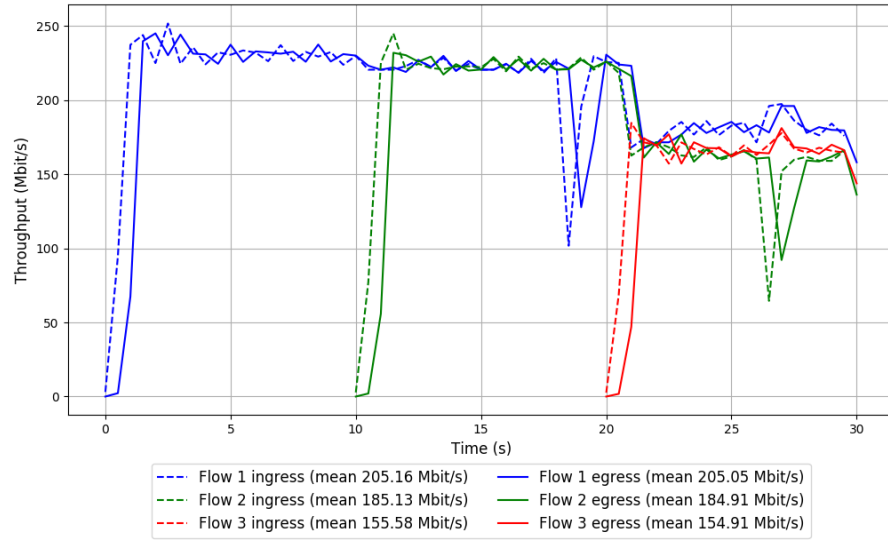
-- Flow 3:

Average throughput: 154.91 Mbit/s

95th percentile per-packet one-way delay: 92.925 ms

Loss rate: 1.51%

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

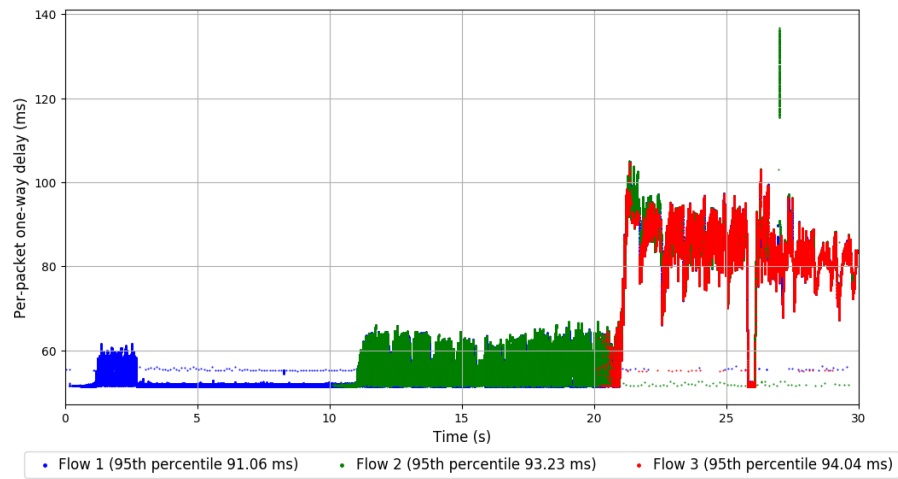
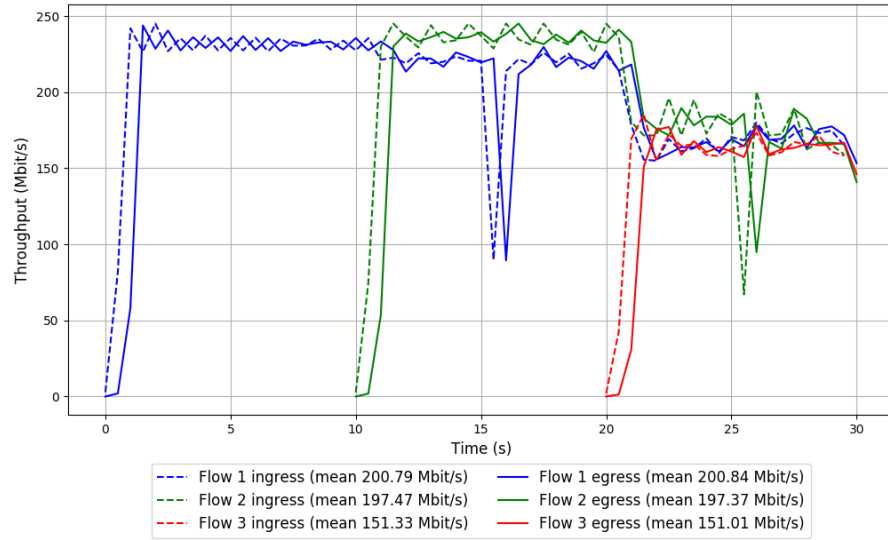


Run 3: Statistics of TCP BBR

Start at: 2018-07-12 17:32:31  
End at: 2018-07-12 17:33:01  
Local clock offset: 0.042 ms  
Remote clock offset: -1.603 ms

# Below is generated by plot.py at 2018-07-12 21:13:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 381.91 Mbit/s  
95th percentile per-packet one-way delay: 92.651 ms  
Loss rate: 0.54%  
-- Flow 1:  
Average throughput: 200.84 Mbit/s  
95th percentile per-packet one-way delay: 91.058 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 197.37 Mbit/s  
95th percentile per-packet one-way delay: 93.230 ms  
Loss rate: 0.57%  
-- Flow 3:  
Average throughput: 151.01 Mbit/s  
95th percentile per-packet one-way delay: 94.043 ms  
Loss rate: 1.30%

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



Run 4: Statistics of TCP BBR

Start at: 2018-07-12 17:58:19

End at: 2018-07-12 17:58:49

Local clock offset: 0.034 ms

Remote clock offset: 0.263 ms

# Below is generated by plot.py at 2018-07-12 21:13:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 396.05 Mbit/s

95th percentile per-packet one-way delay: 82.589 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 207.41 Mbit/s

95th percentile per-packet one-way delay: 80.897 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 193.17 Mbit/s

95th percentile per-packet one-way delay: 82.438 ms

Loss rate: 0.66%

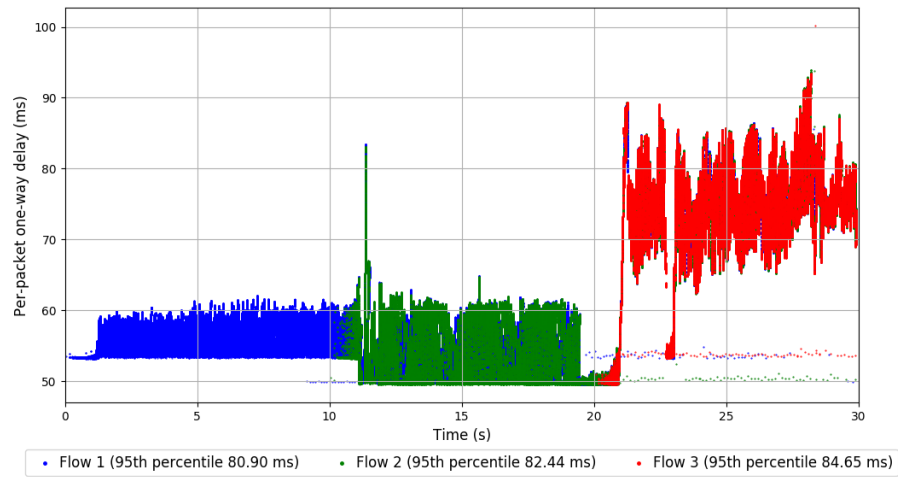
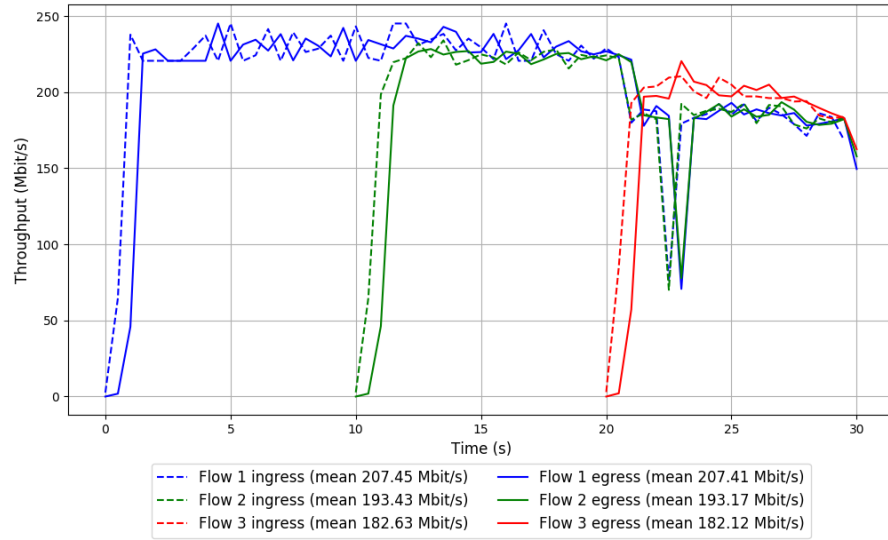
-- Flow 3:

Average throughput: 182.12 Mbit/s

95th percentile per-packet one-way delay: 84.651 ms

Loss rate: 1.35%

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



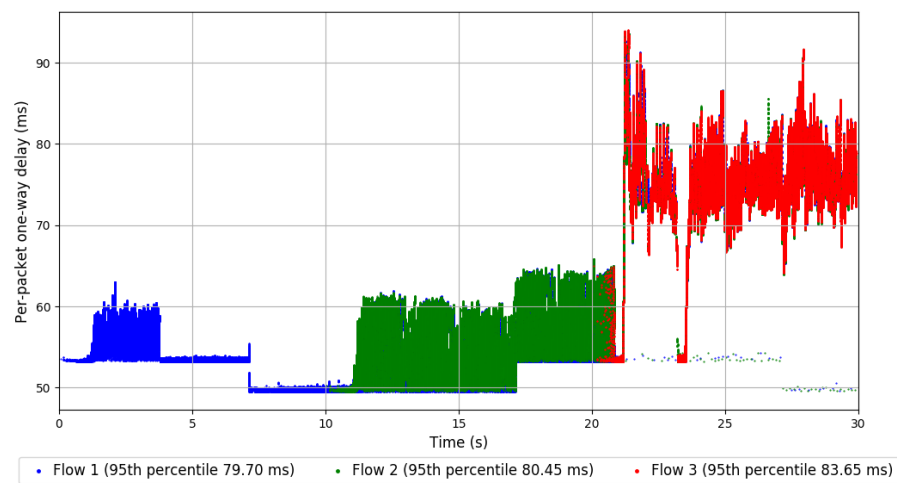
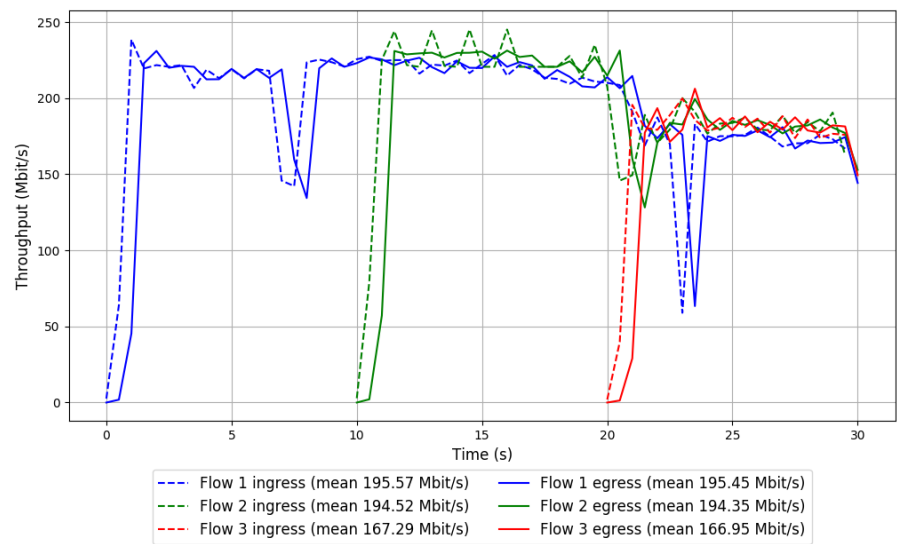
Run 5: Statistics of TCP BBR

Start at: 2018-07-12 18:23:03  
End at: 2018-07-12 18:23:33  
Local clock offset: -0.411 ms  
Remote clock offset: -0.142 ms

# Below is generated by plot.py at 2018-07-12 21:13:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 379.82 Mbit/s  
95th percentile per-packet one-way delay: 81.098 ms  
Loss rate: 0.63%  
-- Flow 1:  
Average throughput: 195.45 Mbit/s  
95th percentile per-packet one-way delay: 79.699 ms  
Loss rate: 0.42%  
-- Flow 2:  
Average throughput: 194.35 Mbit/s  
95th percentile per-packet one-way delay: 80.455 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 166.95 Mbit/s  
95th percentile per-packet one-way delay: 83.652 ms  
Loss rate: 1.40%



Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-07-12 18:48:10

End at: 2018-07-12 18:48:40

Local clock offset: 0.402 ms

Remote clock offset: 0.123 ms

# Below is generated by plot.py at 2018-07-12 21:13:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 385.06 Mbit/s

95th percentile per-packet one-way delay: 88.567 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 196.81 Mbit/s

95th percentile per-packet one-way delay: 86.914 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 200.84 Mbit/s

95th percentile per-packet one-way delay: 89.460 ms

Loss rate: 0.61%

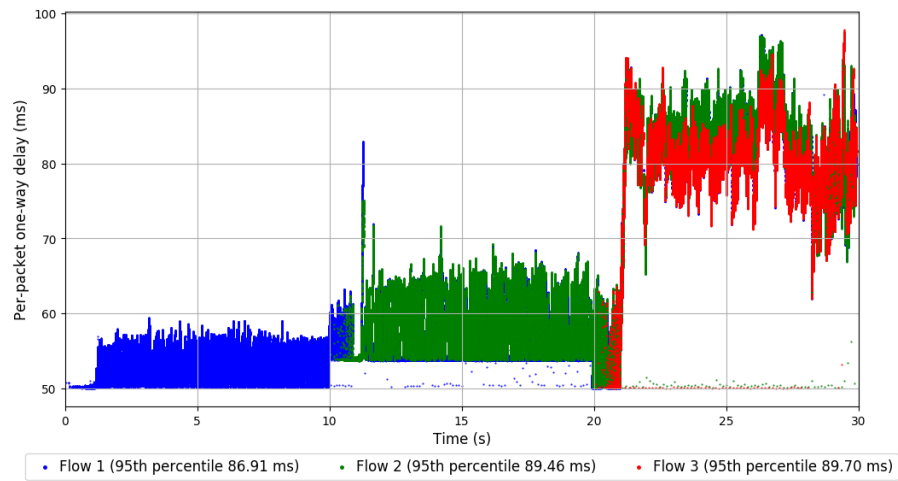
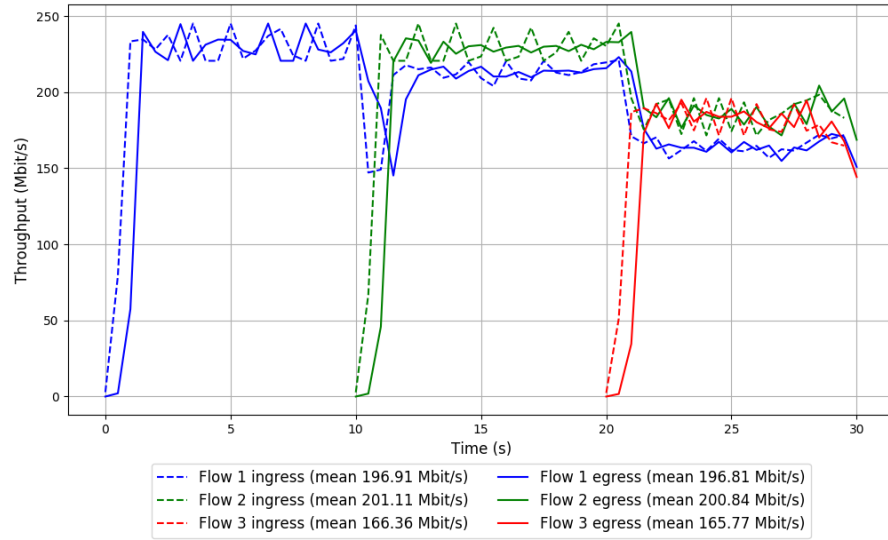
-- Flow 3:

Average throughput: 165.77 Mbit/s

95th percentile per-packet one-way delay: 89.701 ms

Loss rate: 1.40%

# Run 6: Report of TCP BBR — Data Link

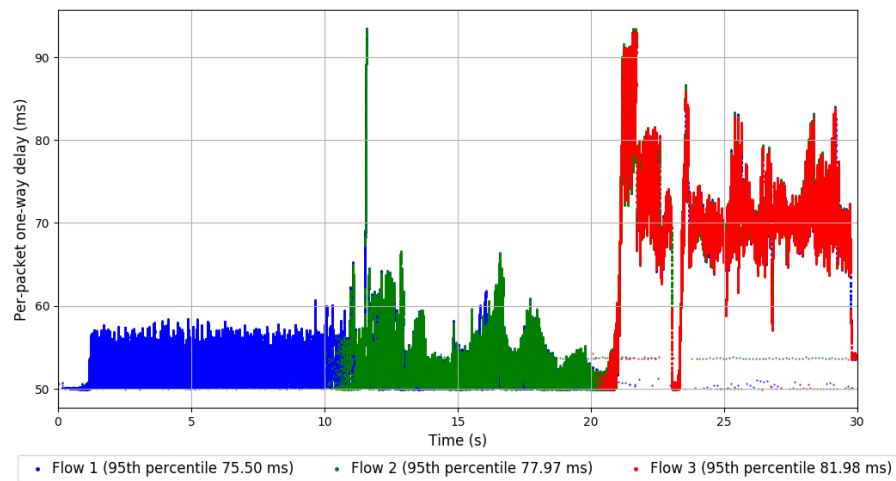
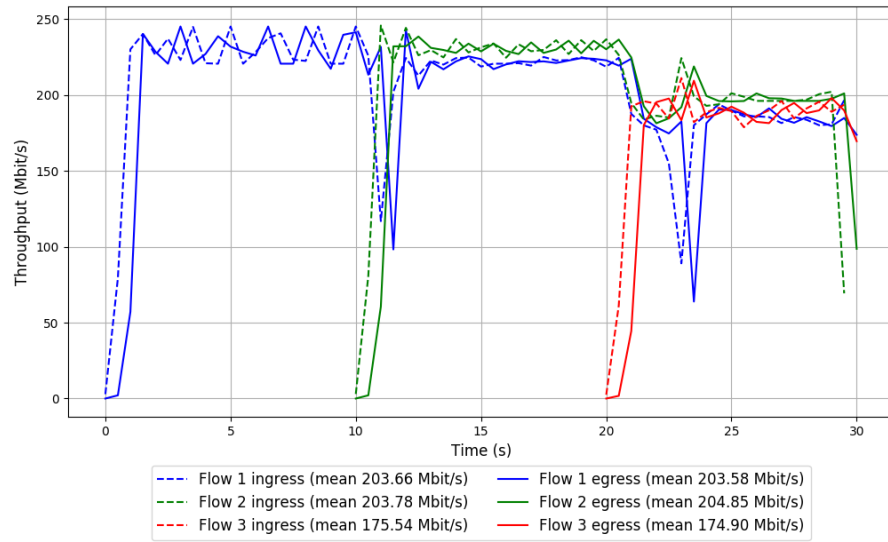


Run 7: Statistics of TCP BBR

Start at: 2018-07-12 19:13:36  
End at: 2018-07-12 19:14:06  
Local clock offset: -0.014 ms  
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2018-07-12 21:13:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 397.25 Mbit/s  
95th percentile per-packet one-way delay: 77.971 ms  
Loss rate: 0.40%  
-- Flow 1:  
Average throughput: 203.58 Mbit/s  
95th percentile per-packet one-way delay: 75.505 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 204.85 Mbit/s  
95th percentile per-packet one-way delay: 77.972 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 174.90 Mbit/s  
95th percentile per-packet one-way delay: 81.980 ms  
Loss rate: 1.39%

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

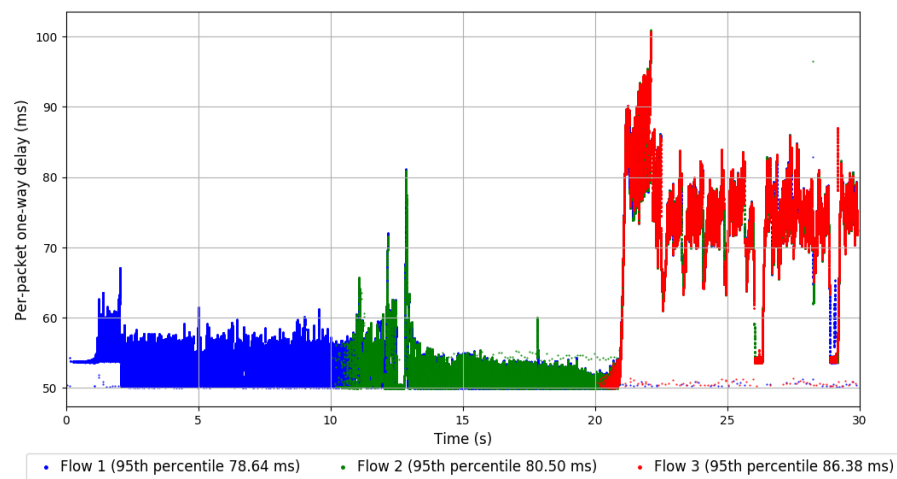
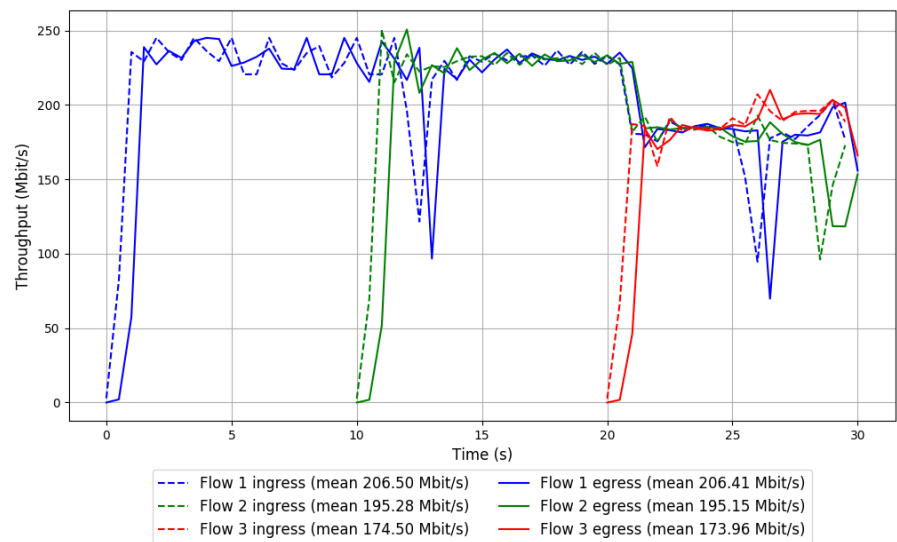


Run 8: Statistics of TCP BBR

Start at: 2018-07-12 19:38:58  
End at: 2018-07-12 19:39:28  
Local clock offset: -0.096 ms  
Remote clock offset: -0.238 ms

# Below is generated by plot.py at 2018-07-12 21:13:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 393.56 Mbit/s  
95th percentile per-packet one-way delay: 80.846 ms  
Loss rate: 0.61%  
-- Flow 1:  
Average throughput: 206.41 Mbit/s  
95th percentile per-packet one-way delay: 78.644 ms  
Loss rate: 0.39%  
-- Flow 2:  
Average throughput: 195.15 Mbit/s  
95th percentile per-packet one-way delay: 80.502 ms  
Loss rate: 0.60%  
-- Flow 3:  
Average throughput: 173.96 Mbit/s  
95th percentile per-packet one-way delay: 86.379 ms  
Loss rate: 1.41%

Run 8: Report of TCP BBR — Data Link



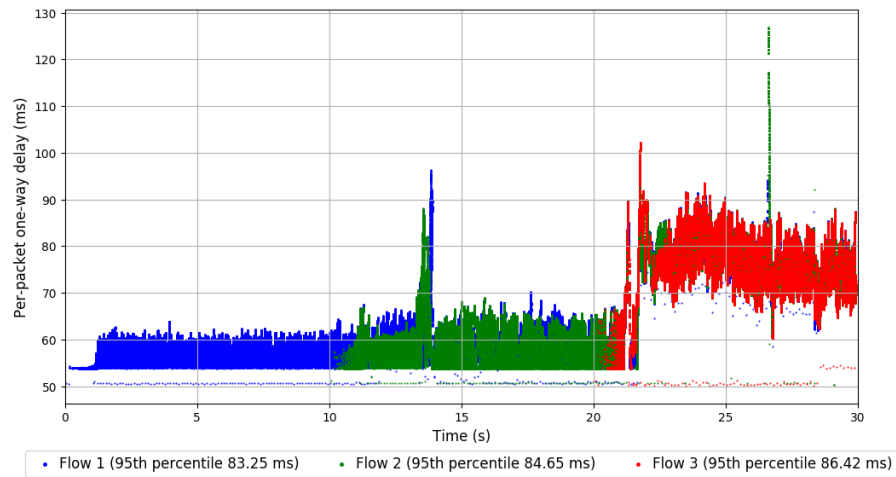
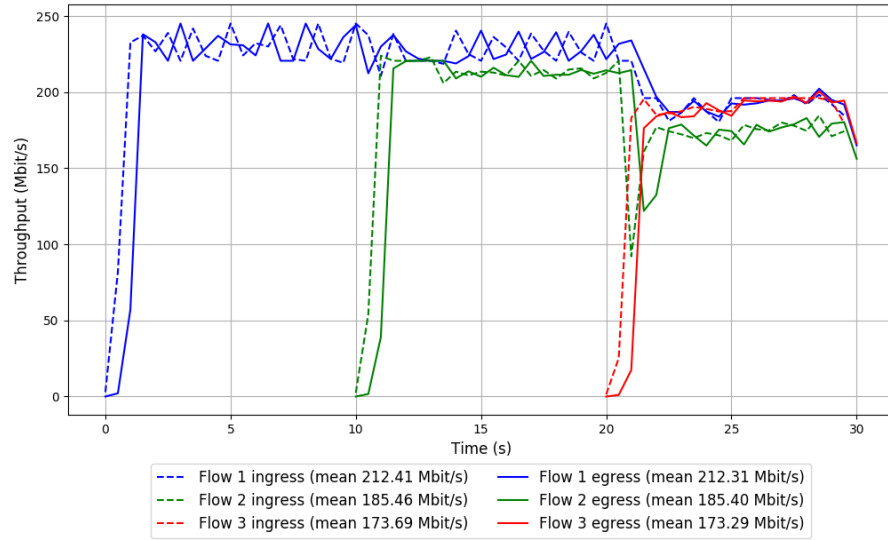
Run 9: Statistics of TCP BBR

Start at: 2018-07-12 20:04:21  
End at: 2018-07-12 20:04:51  
Local clock offset: 0.226 ms  
Remote clock offset: -0.141 ms

# Below is generated by plot.py at 2018-07-12 21:19:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 392.82 Mbit/s  
95th percentile per-packet one-way delay: 84.375 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 212.31 Mbit/s  
95th percentile per-packet one-way delay: 83.254 ms  
Loss rate: 0.39%  
-- Flow 2:  
Average throughput: 185.40 Mbit/s  
95th percentile per-packet one-way delay: 84.653 ms  
Loss rate: 0.56%  
-- Flow 3:  
Average throughput: 173.29 Mbit/s  
95th percentile per-packet one-way delay: 86.417 ms  
Loss rate: 1.27%



### Run 9: Report of TCP BBR — Data Link

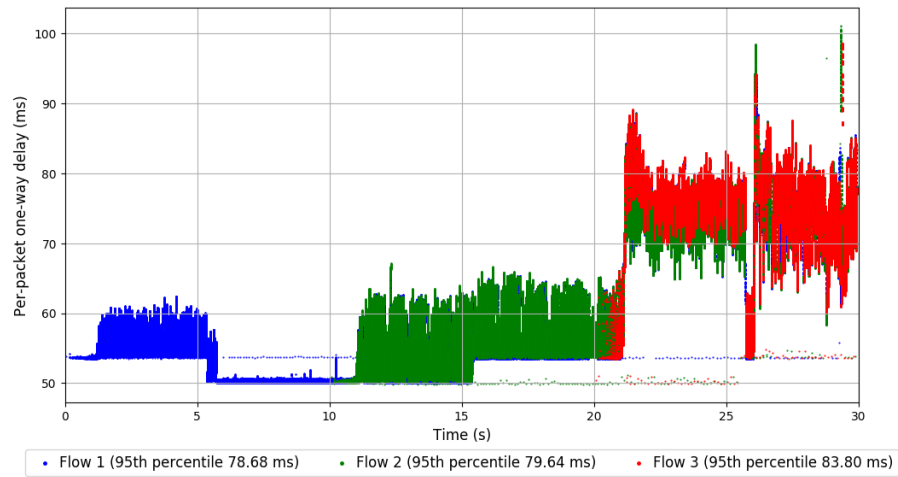
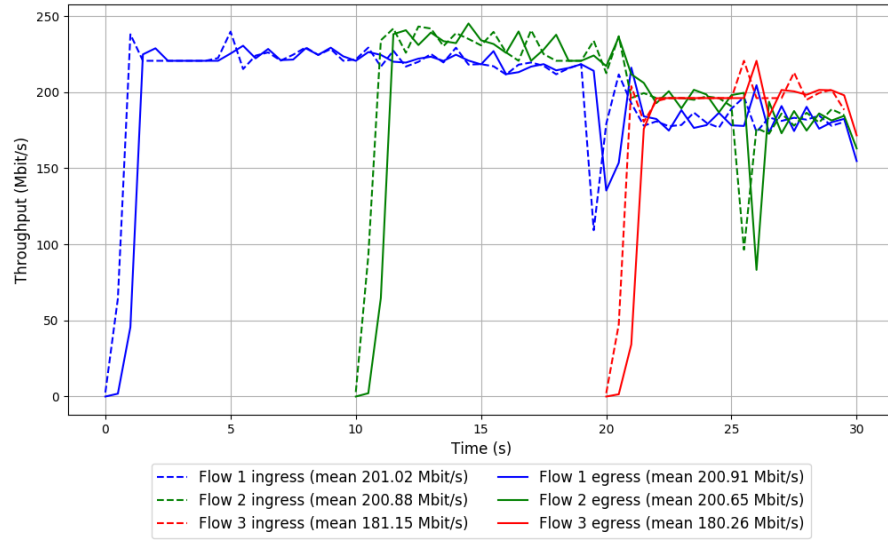


Run 10: Statistics of TCP BBR

Start at: 2018-07-12 20:29:34  
End at: 2018-07-12 20:30:04  
Local clock offset: 0.017 ms  
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2018-07-12 21:19:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 393.79 Mbit/s  
95th percentile per-packet one-way delay: 80.401 ms  
Loss rate: 0.65%  
-- Flow 1:  
Average throughput: 200.91 Mbit/s  
95th percentile per-packet one-way delay: 78.680 ms  
Loss rate: 0.42%  
-- Flow 2:  
Average throughput: 200.65 Mbit/s  
95th percentile per-packet one-way delay: 79.645 ms  
Loss rate: 0.64%  
-- Flow 3:  
Average throughput: 180.26 Mbit/s  
95th percentile per-packet one-way delay: 83.797 ms  
Loss rate: 1.48%

# Run 10: Report of TCP BBR — Data Link

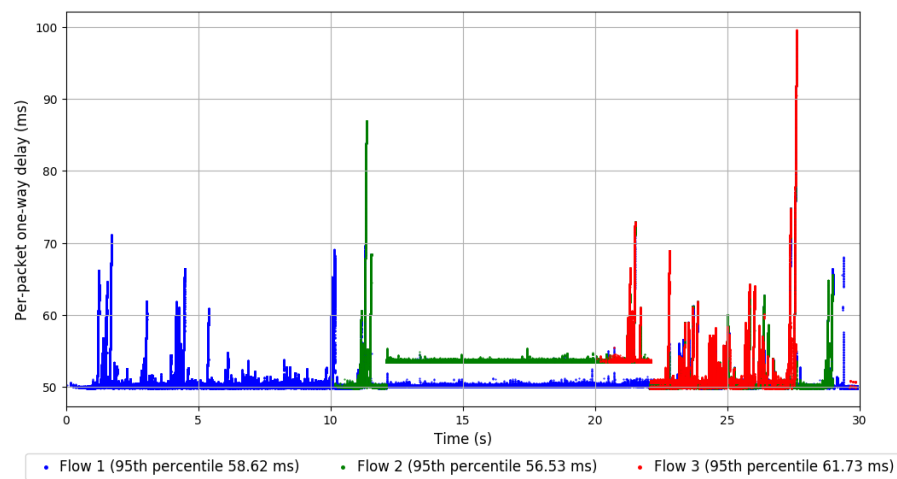
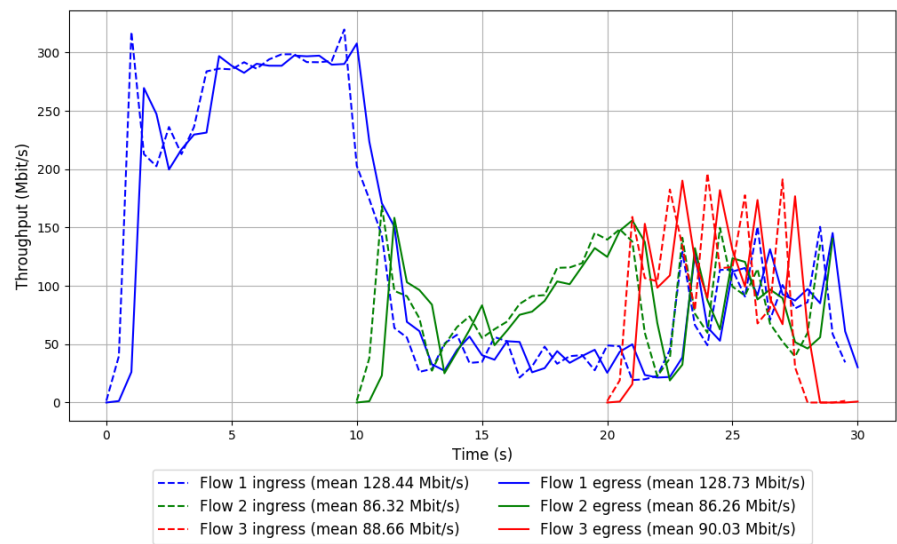


Run 1: Statistics of Copa

Start at: 2018-07-12 16:45:48  
End at: 2018-07-12 16:46:18  
Local clock offset: 0.02 ms  
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2018-07-12 21:19:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 212.87 Mbit/s  
95th percentile per-packet one-way delay: 58.565 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 128.73 Mbit/s  
95th percentile per-packet one-way delay: 58.619 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 86.26 Mbit/s  
95th percentile per-packet one-way delay: 56.534 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 90.03 Mbit/s  
95th percentile per-packet one-way delay: 61.731 ms  
Loss rate: 0.03%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-07-12 17:11:43

End at: 2018-07-12 17:12:13

Local clock offset: -0.269 ms

Remote clock offset: 1.059 ms

# Below is generated by plot.py at 2018-07-12 21:20:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 228.83 Mbit/s

95th percentile per-packet one-way delay: 56.275 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 116.64 Mbit/s

95th percentile per-packet one-way delay: 56.148 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 148.56 Mbit/s

95th percentile per-packet one-way delay: 56.232 ms

Loss rate: 0.25%

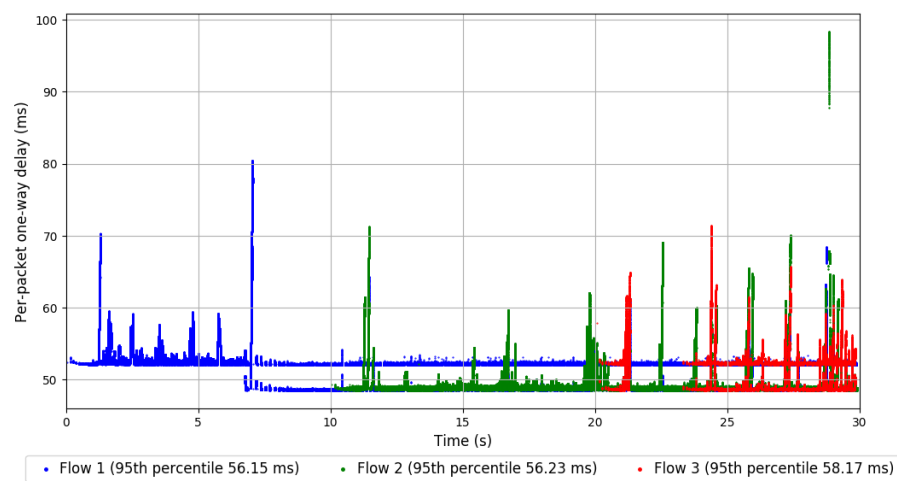
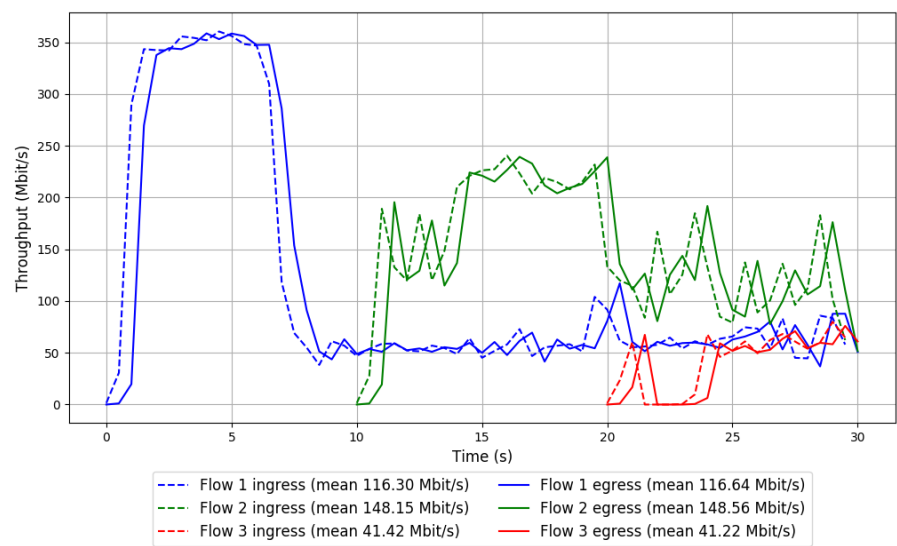
-- Flow 3:

Average throughput: 41.22 Mbit/s

95th percentile per-packet one-way delay: 58.175 ms

Loss rate: 1.85%

Run 2: Report of Copa — Data Link



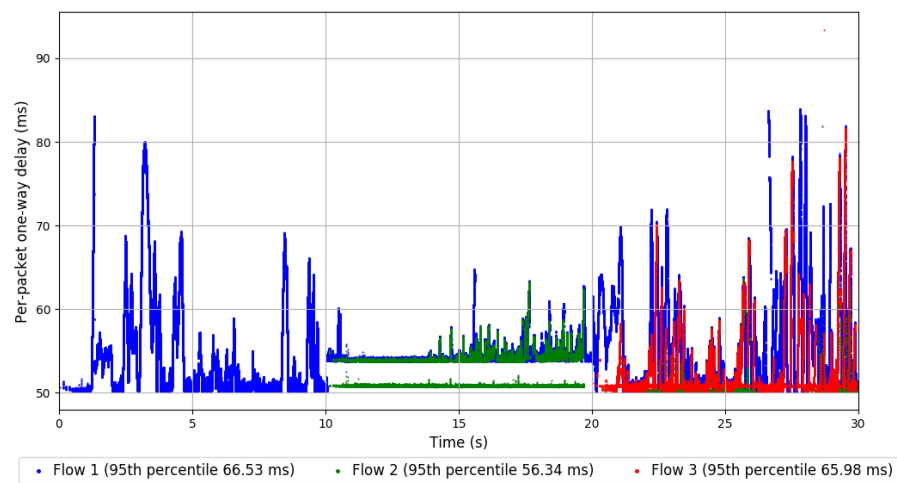
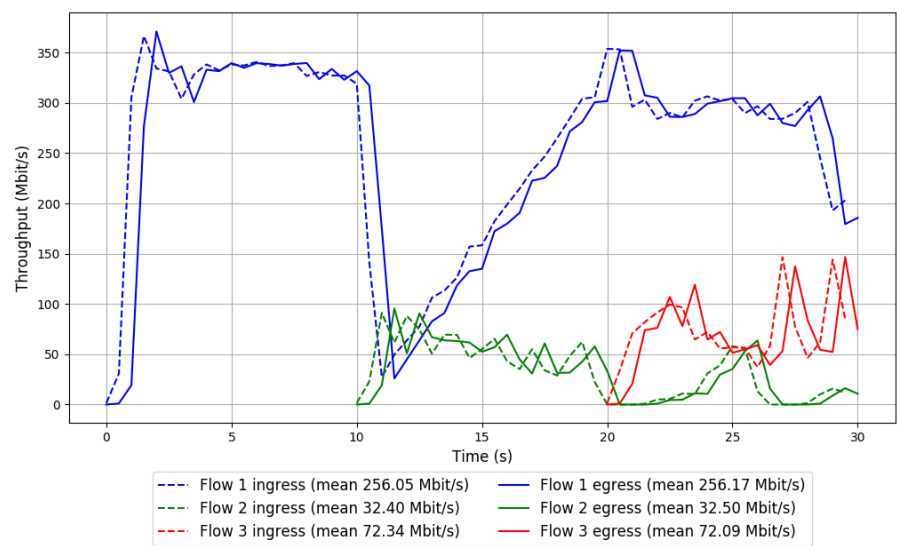
Run 3: Statistics of Copa

Start at: 2018-07-12 17:39:50  
End at: 2018-07-12 17:40:20  
Local clock offset: 0.172 ms  
Remote clock offset: -0.221 ms

# Below is generated by plot.py at 2018-07-12 21:23:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 301.56 Mbit/s  
95th percentile per-packet one-way delay: 65.895 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 256.17 Mbit/s  
95th percentile per-packet one-way delay: 66.528 ms  
Loss rate: 0.30%  
-- Flow 2:  
Average throughput: 32.50 Mbit/s  
95th percentile per-packet one-way delay: 56.338 ms  
Loss rate: 0.20%  
-- Flow 3:  
Average throughput: 72.09 Mbit/s  
95th percentile per-packet one-way delay: 65.977 ms  
Loss rate: 1.27%



Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-07-12 18:05:11

End at: 2018-07-12 18:05:41

Local clock offset: -0.132 ms

Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2018-07-12 21:23:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 192.67 Mbit/s

95th percentile per-packet one-way delay: 58.797 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 73.80 Mbit/s

95th percentile per-packet one-way delay: 59.815 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 115.55 Mbit/s

95th percentile per-packet one-way delay: 57.730 ms

Loss rate: 0.61%

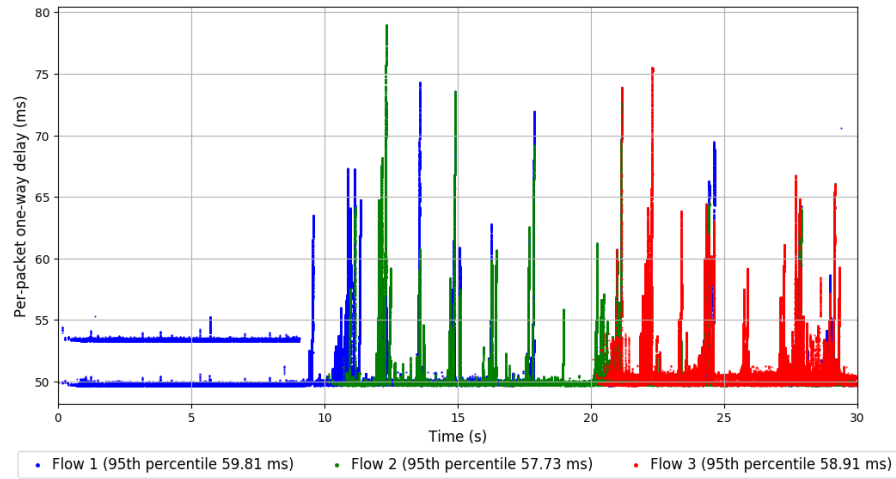
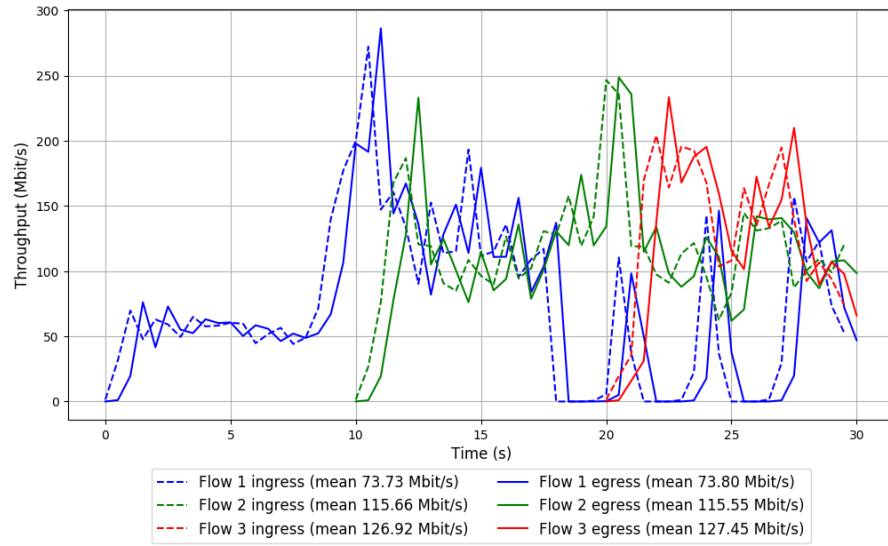
-- Flow 3:

Average throughput: 127.45 Mbit/s

95th percentile per-packet one-way delay: 58.915 ms

Loss rate: 0.61%

# Run 4: Report of Copa — Data Link

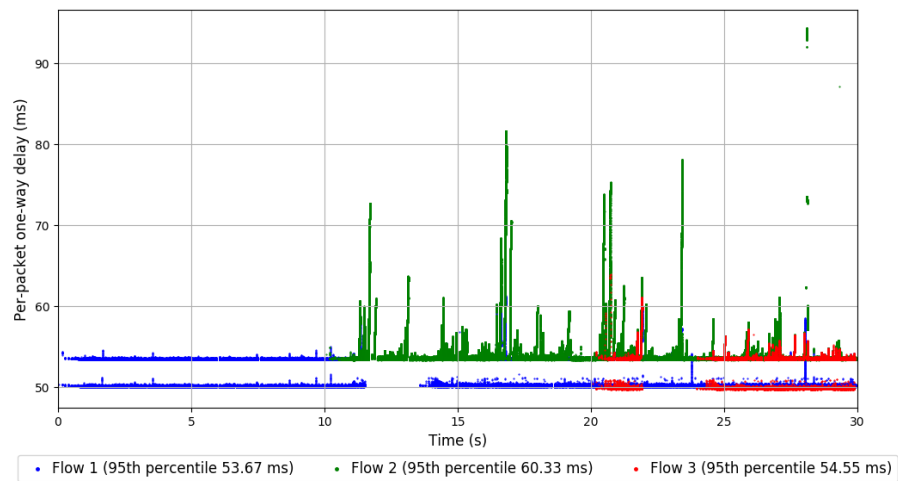
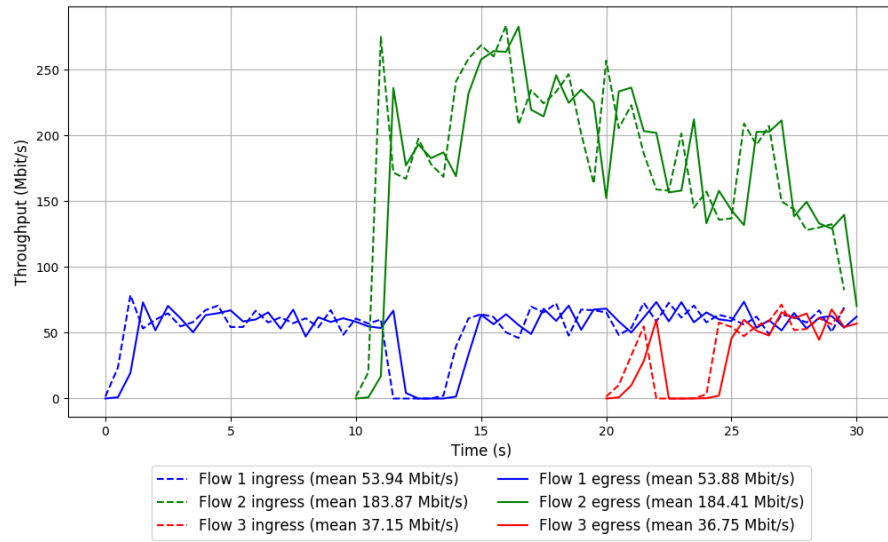


Run 5: Statistics of Copa

Start at: 2018-07-12 18:30:03  
End at: 2018-07-12 18:30:33  
Local clock offset: 0.019 ms  
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2018-07-12 21:23:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 188.56 Mbit/s  
95th percentile per-packet one-way delay: 58.413 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 53.88 Mbit/s  
95th percentile per-packet one-way delay: 53.670 ms  
Loss rate: 0.44%  
-- Flow 2:  
Average throughput: 184.41 Mbit/s  
95th percentile per-packet one-way delay: 60.333 ms  
Loss rate: 0.25%  
-- Flow 3:  
Average throughput: 36.75 Mbit/s  
95th percentile per-packet one-way delay: 54.555 ms  
Loss rate: 2.25%

## Run 5: Report of Copa — Data Link

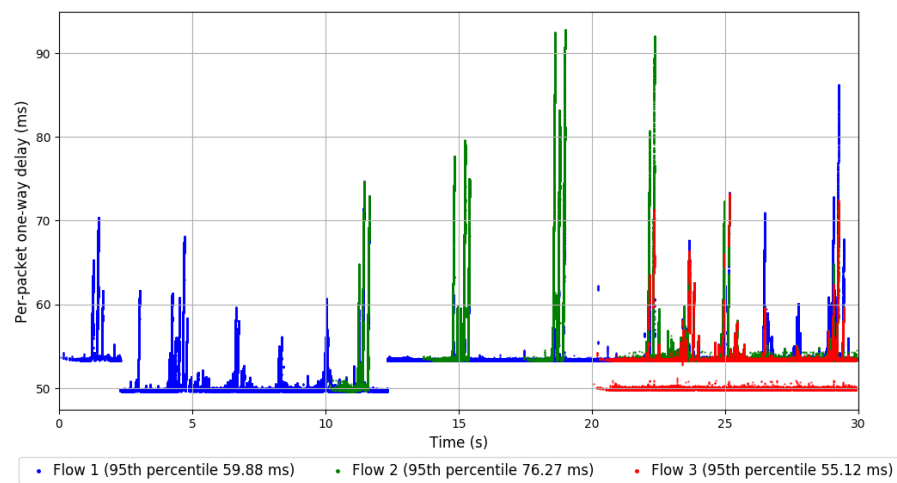
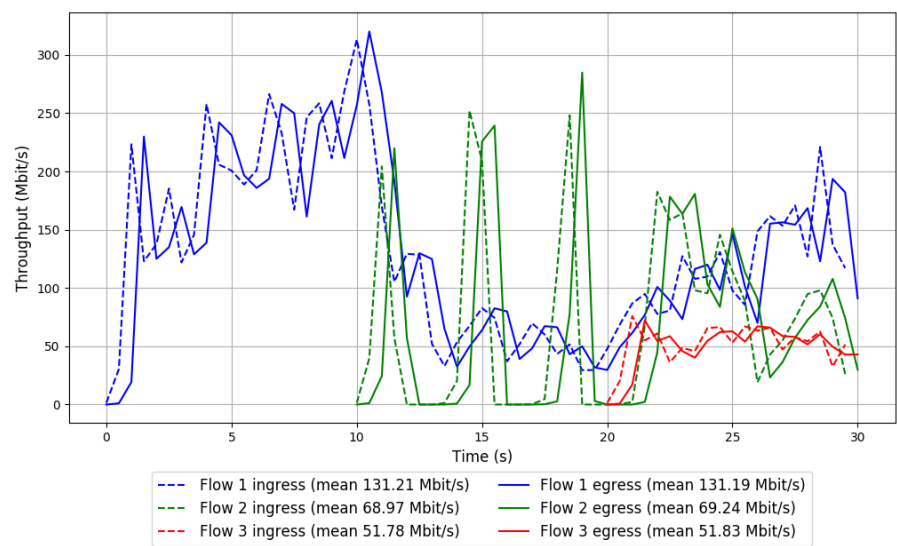


Run 6: Statistics of Copa

Start at: 2018-07-12 18:55:07  
End at: 2018-07-12 18:55:37  
Local clock offset: -0.037 ms  
Remote clock offset: 0.143 ms

```
# Below is generated by plot.py at 2018-07-12 21:23:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 194.32 Mbit/s
95th percentile per-packet one-way delay: 64.471 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 131.19 Mbit/s
95th percentile per-packet one-way delay: 59.878 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 69.24 Mbit/s
95th percentile per-packet one-way delay: 76.268 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 51.83 Mbit/s
95th percentile per-packet one-way delay: 55.115 ms
Loss rate: 1.09%
```

Run 6: Report of Copa — Data Link



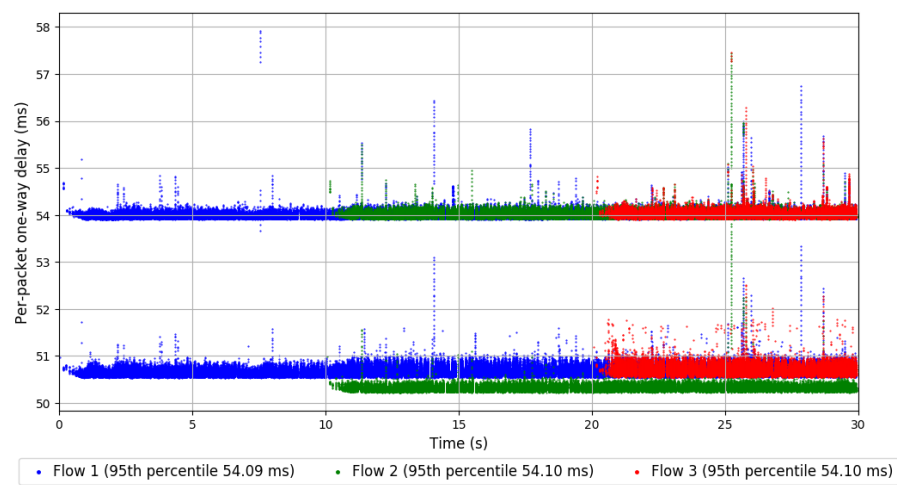
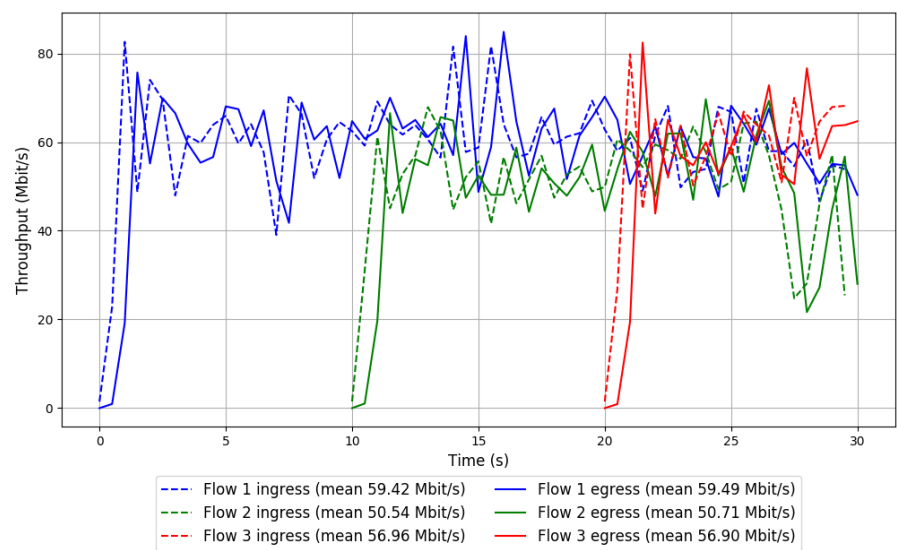
Run 7: Statistics of Copa

Start at: 2018-07-12 19:20:36  
End at: 2018-07-12 19:21:06  
Local clock offset: 0.395 ms  
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2018-07-12 21:23:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 111.97 Mbit/s  
95th percentile per-packet one-way delay: 54.095 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 59.49 Mbit/s  
95th percentile per-packet one-way delay: 54.086 ms  
Loss rate: 0.26%  
-- Flow 2:  
Average throughput: 50.71 Mbit/s  
95th percentile per-packet one-way delay: 54.102 ms  
Loss rate: 0.17%  
-- Flow 3:  
Average throughput: 56.90 Mbit/s  
95th percentile per-packet one-way delay: 54.104 ms  
Loss rate: 1.13%



Run 7: Report of Copa — Data Link

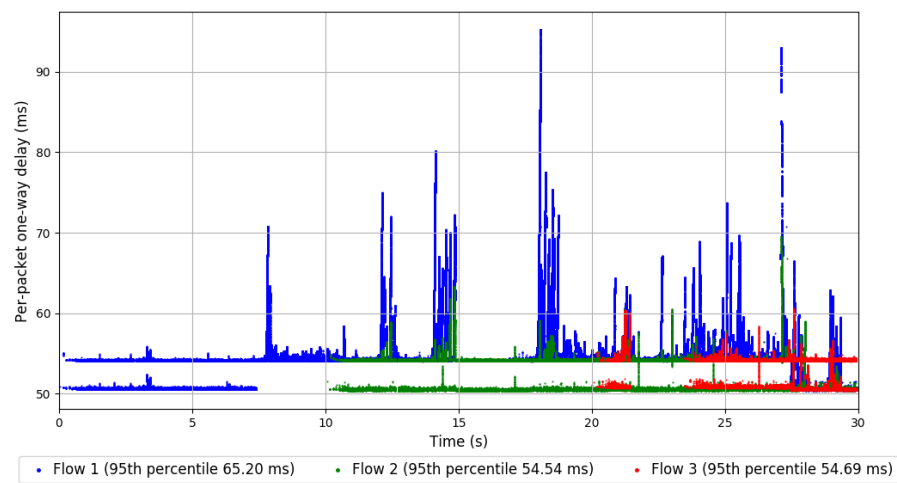
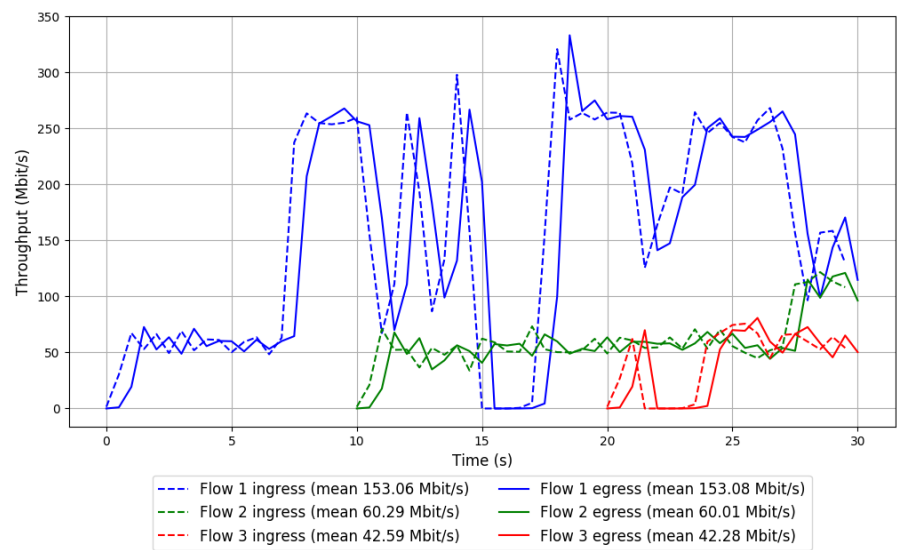


Run 8: Statistics of Copa

Start at: 2018-07-12 19:46:02  
End at: 2018-07-12 19:46:32  
Local clock offset: 0.401 ms  
Remote clock offset: -0.232 ms

# Below is generated by plot.py at 2018-07-12 21:26:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 206.94 Mbit/s  
95th percentile per-packet one-way delay: 63.388 ms  
Loss rate: 0.53%  
-- Flow 1:  
Average throughput: 153.08 Mbit/s  
95th percentile per-packet one-way delay: 65.202 ms  
Loss rate: 0.32%  
-- Flow 2:  
Average throughput: 60.01 Mbit/s  
95th percentile per-packet one-way delay: 54.540 ms  
Loss rate: 1.00%  
-- Flow 3:  
Average throughput: 42.28 Mbit/s  
95th percentile per-packet one-way delay: 54.690 ms  
Loss rate: 1.44%

Run 8: Report of Copa — Data Link

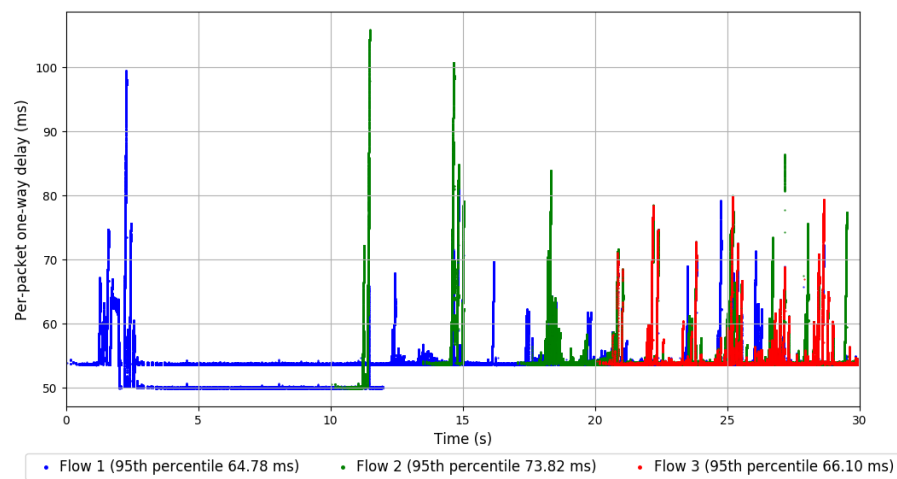
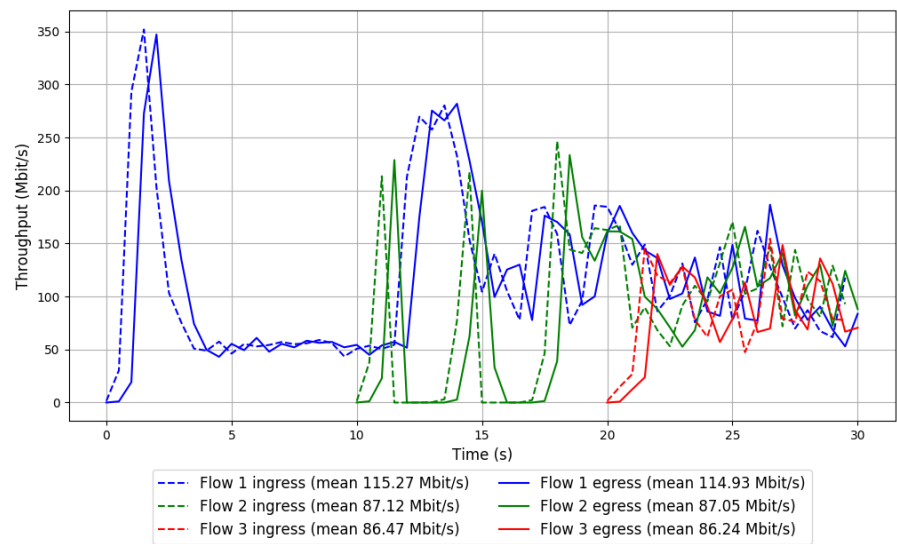


Run 9: Statistics of Copa

Start at: 2018-07-12 20:11:18  
End at: 2018-07-12 20:11:48  
Local clock offset: 0.158 ms  
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2018-07-12 21:26:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 201.29 Mbit/s  
95th percentile per-packet one-way delay: 67.824 ms  
Loss rate: 0.72%  
-- Flow 1:  
Average throughput: 114.93 Mbit/s  
95th percentile per-packet one-way delay: 64.782 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 87.05 Mbit/s  
95th percentile per-packet one-way delay: 73.823 ms  
Loss rate: 0.59%  
-- Flow 3:  
Average throughput: 86.24 Mbit/s  
95th percentile per-packet one-way delay: 66.099 ms  
Loss rate: 1.30%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-07-12 20:36:33

End at: 2018-07-12 20:37:03

Local clock offset: -0.12 ms

Remote clock offset: -0.42 ms

# Below is generated by plot.py at 2018-07-12 21:26:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 210.06 Mbit/s

95th percentile per-packet one-way delay: 59.165 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 109.88 Mbit/s

95th percentile per-packet one-way delay: 60.868 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 123.57 Mbit/s

95th percentile per-packet one-way delay: 58.752 ms

Loss rate: 0.77%

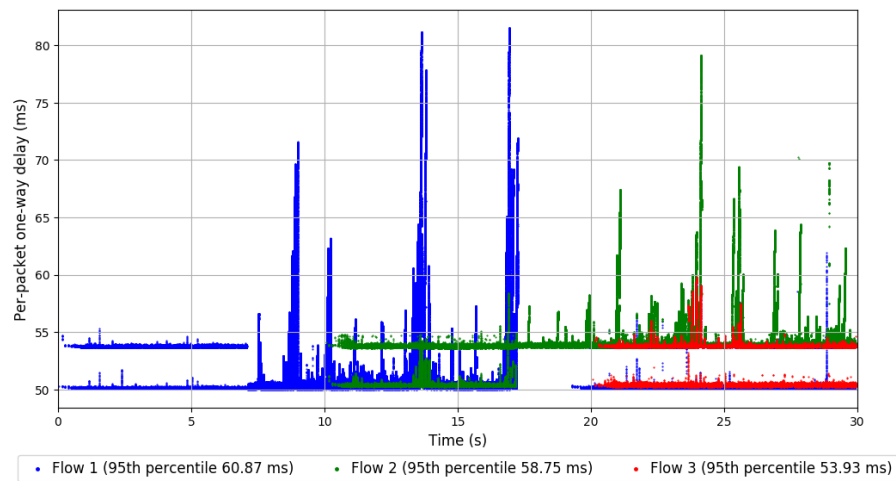
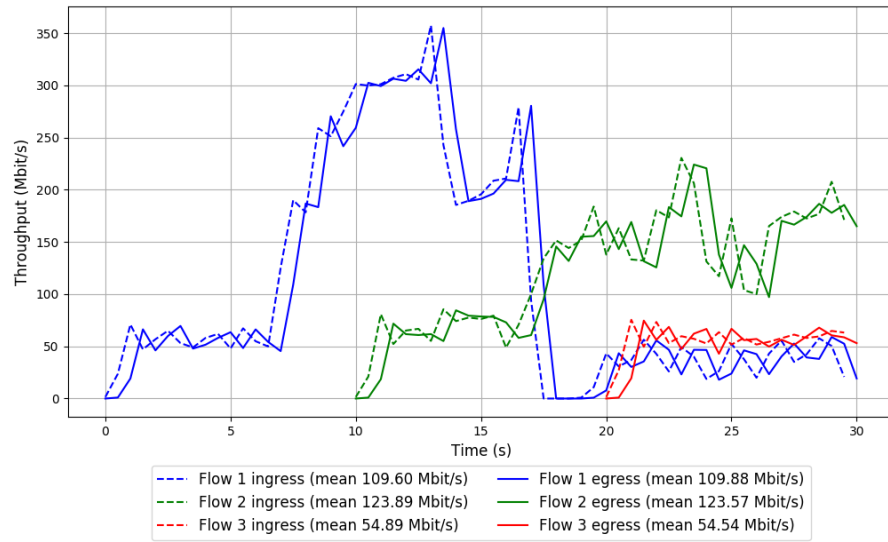
-- Flow 3:

Average throughput: 54.54 Mbit/s

95th percentile per-packet one-way delay: 53.934 ms

Loss rate: 1.64%

# Run 10: Report of Copa — Data Link



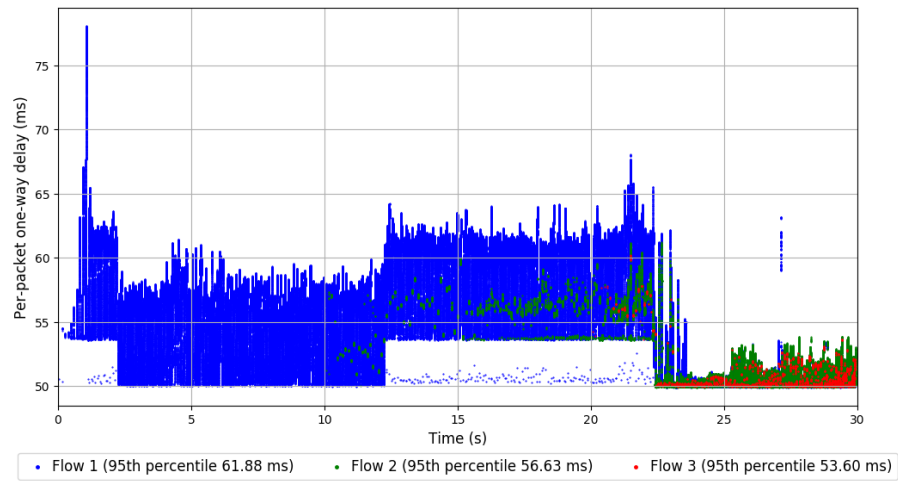
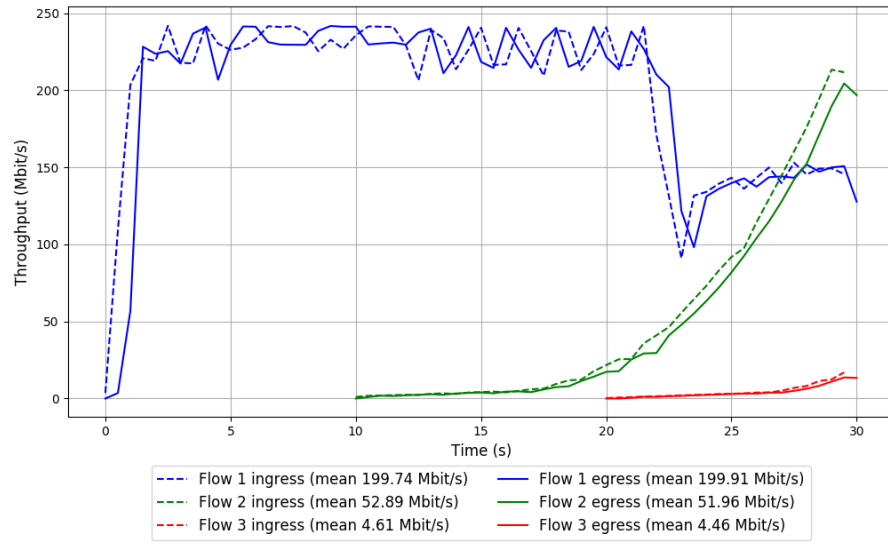
Run 1: Statistics of TCP Cubic

Start at: 2018-07-12 16:44:27  
End at: 2018-07-12 16:44:57  
Local clock offset: -0.071 ms  
Remote clock offset: -0.213 ms

# Below is generated by plot.py at 2018-07-12 21:26:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 235.92 Mbit/s  
95th percentile per-packet one-way delay: 61.745 ms  
Loss rate: 0.59%  
-- Flow 1:  
Average throughput: 199.91 Mbit/s  
95th percentile per-packet one-way delay: 61.881 ms  
Loss rate: 0.26%  
-- Flow 2:  
Average throughput: 51.96 Mbit/s  
95th percentile per-packet one-way delay: 56.634 ms  
Loss rate: 2.26%  
-- Flow 3:  
Average throughput: 4.46 Mbit/s  
95th percentile per-packet one-way delay: 53.601 ms  
Loss rate: 4.35%



# Run 1: Report of TCP Cubic — Data Link

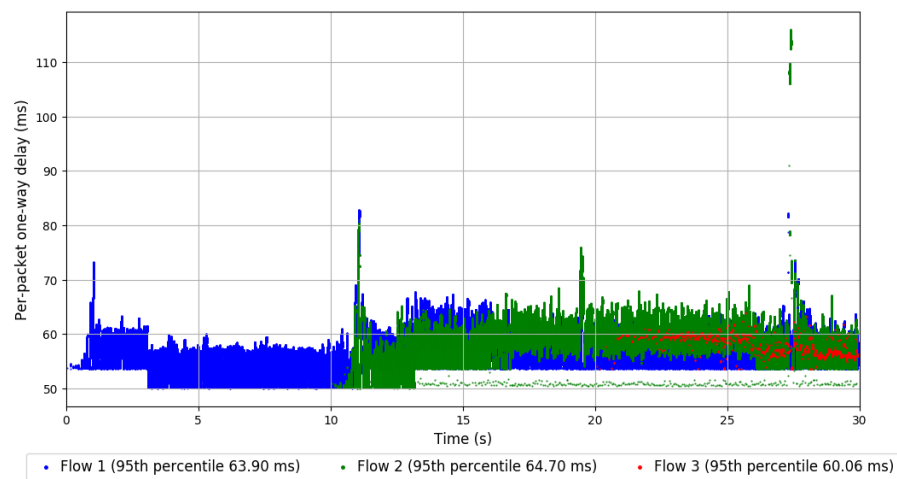
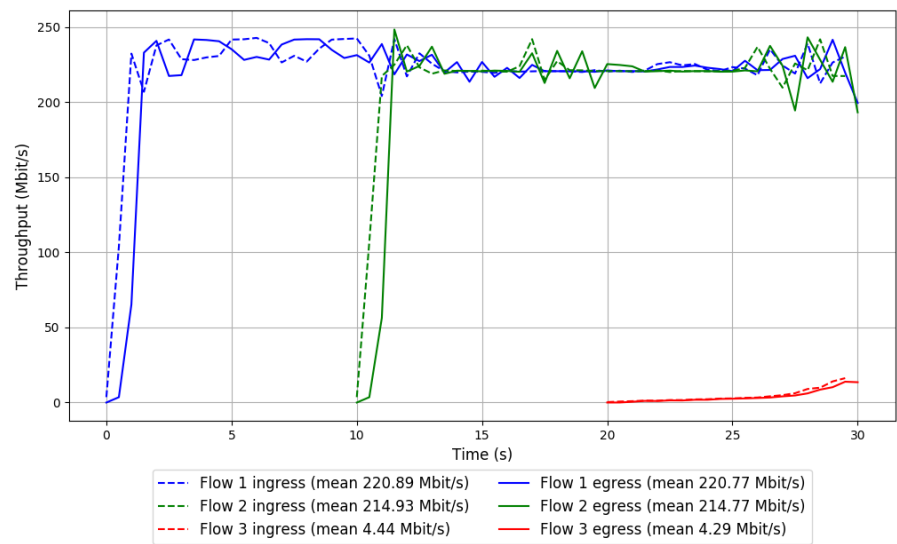


Run 2: Statistics of TCP Cubic

Start at: 2018-07-12 17:10:17  
End at: 2018-07-12 17:10:47  
Local clock offset: 0.085 ms  
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2018-07-12 21:26:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 364.75 Mbit/s  
95th percentile per-packet one-way delay: 64.294 ms  
Loss rate: 0.48%  
-- Flow 1:  
Average throughput: 220.77 Mbit/s  
95th percentile per-packet one-way delay: 63.897 ms  
Loss rate: 0.40%  
-- Flow 2:  
Average throughput: 214.77 Mbit/s  
95th percentile per-packet one-way delay: 64.698 ms  
Loss rate: 0.56%  
-- Flow 3:  
Average throughput: 4.29 Mbit/s  
95th percentile per-packet one-way delay: 60.061 ms  
Loss rate: 4.51%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-07-12 17:38:22

End at: 2018-07-12 17:38:52

Local clock offset: -0.327 ms

Remote clock offset: 0.257 ms

# Below is generated by plot.py at 2018-07-12 21:26:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 376.00 Mbit/s

95th percentile per-packet one-way delay: 58.934 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 227.81 Mbit/s

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

Loss rate: 0.39%

-- Flow 2:

Average throughput: 221.33 Mbit/s

95th percentile per-packet one-way delay: 57.849 ms

Loss rate: 0.42%

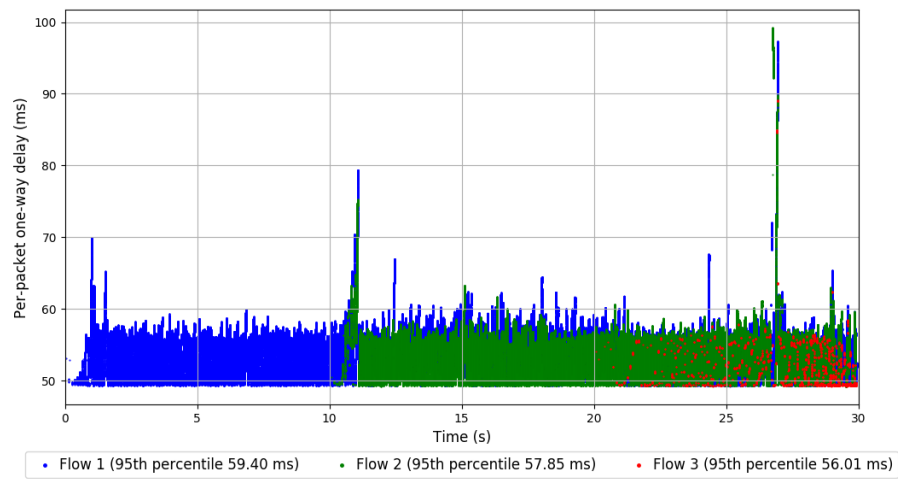
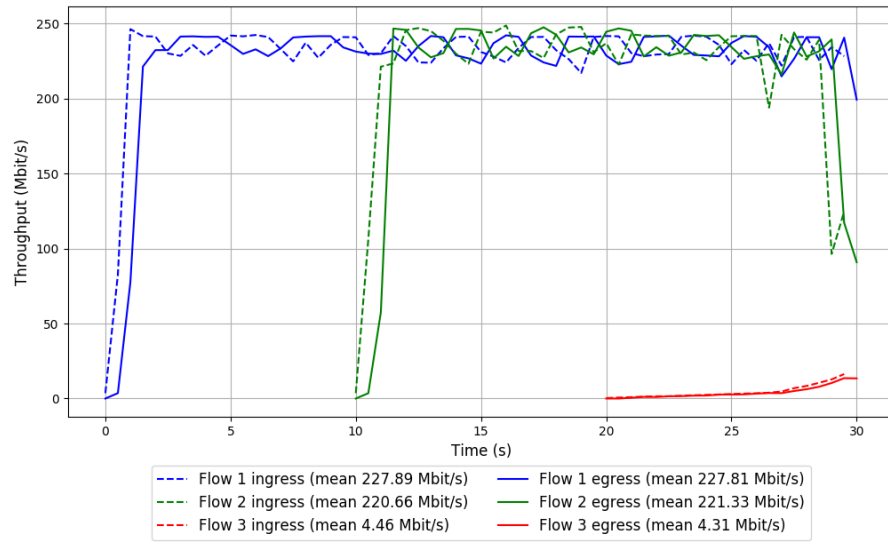
-- Flow 3:

Average throughput: 4.31 Mbit/s

95th percentile per-packet one-way delay: 56.014 ms

Loss rate: 4.43%

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



Run 4: Statistics of TCP Cubic

Start at: 2018-07-12 18:03:43

End at: 2018-07-12 18:04:13

Local clock offset: 0.119 ms

Remote clock offset: 0.028 ms

# Below is generated by plot.py at 2018-07-12 21:29:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 340.91 Mbit/s

95th percentile per-packet one-way delay: 64.958 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 166.34 Mbit/s

95th percentile per-packet one-way delay: 63.703 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 215.26 Mbit/s

95th percentile per-packet one-way delay: 65.832 ms

Loss rate: 0.57%

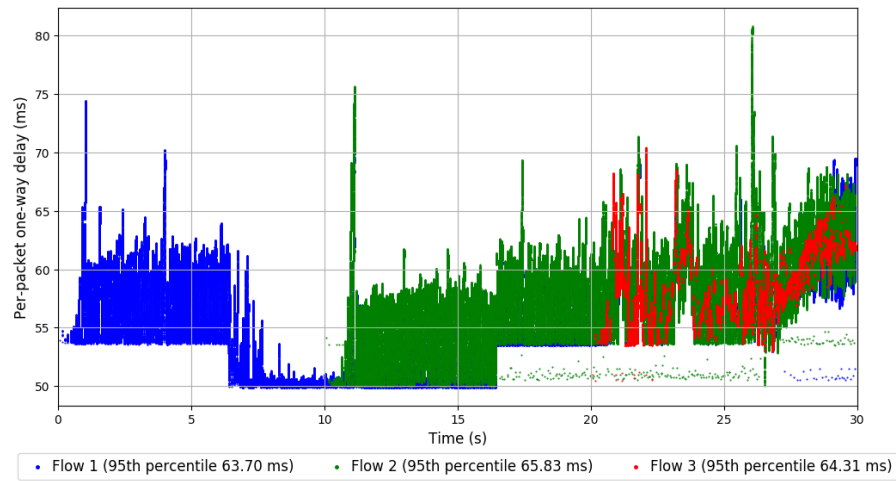
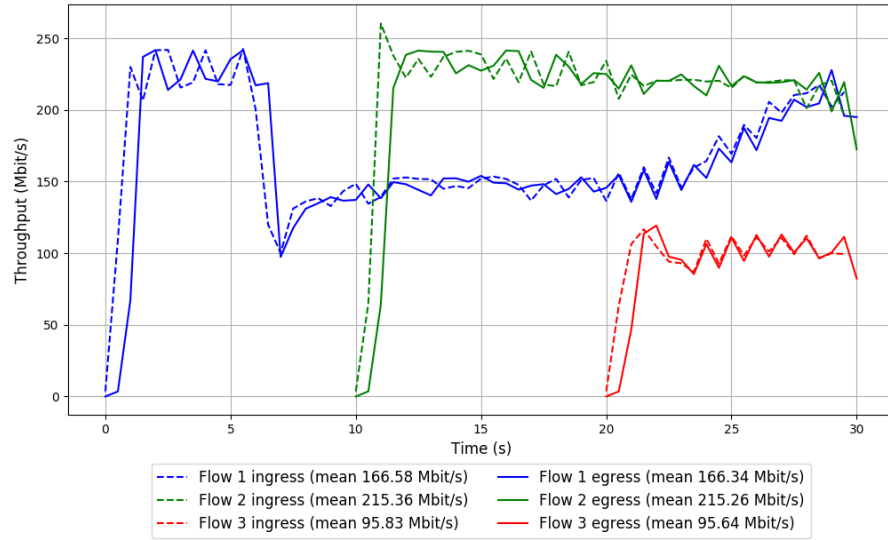
-- Flow 3:

Average throughput: 95.64 Mbit/s

95th percentile per-packet one-way delay: 64.315 ms

Loss rate: 1.24%

# Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-07-12 18:28:36

End at: 2018-07-12 18:29:06

Local clock offset: 0.022 ms

Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2018-07-12 21:29:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 347.23 Mbit/s

95th percentile per-packet one-way delay: 63.993 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 203.77 Mbit/s

95th percentile per-packet one-way delay: 64.440 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 213.32 Mbit/s

95th percentile per-packet one-way delay: 62.995 ms

Loss rate: 0.48%

-- Flow 3:

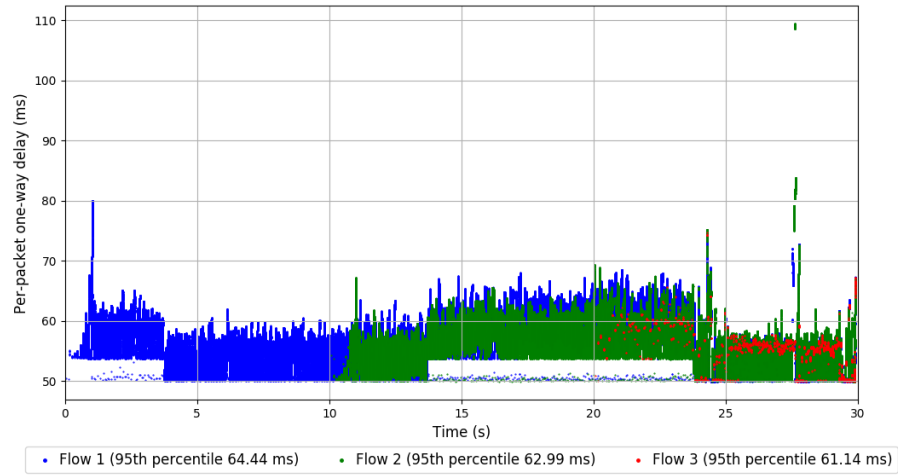
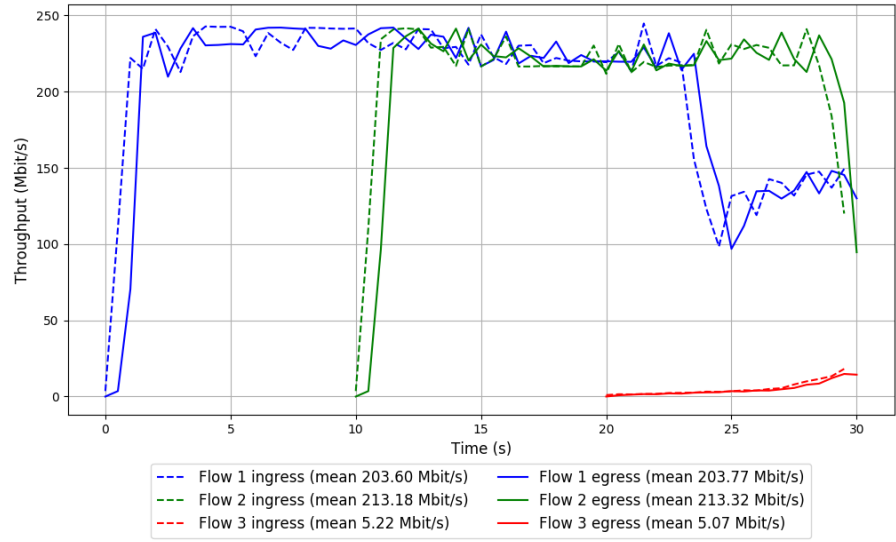
Average throughput: 5.07 Mbit/s

95th percentile per-packet one-way delay: 61.139 ms

Loss rate: 3.90%



# Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-07-12 18:53:43

End at: 2018-07-12 18:54:13

Local clock offset: 0.606 ms

Remote clock offset: 0.079 ms

# Below is generated by plot.py at 2018-07-12 21:29:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 289.81 Mbit/s

95th percentile per-packet one-way delay: 63.466 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 215.14 Mbit/s

95th percentile per-packet one-way delay: 63.554 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 49.81 Mbit/s

95th percentile per-packet one-way delay: 59.186 ms

Loss rate: 2.47%

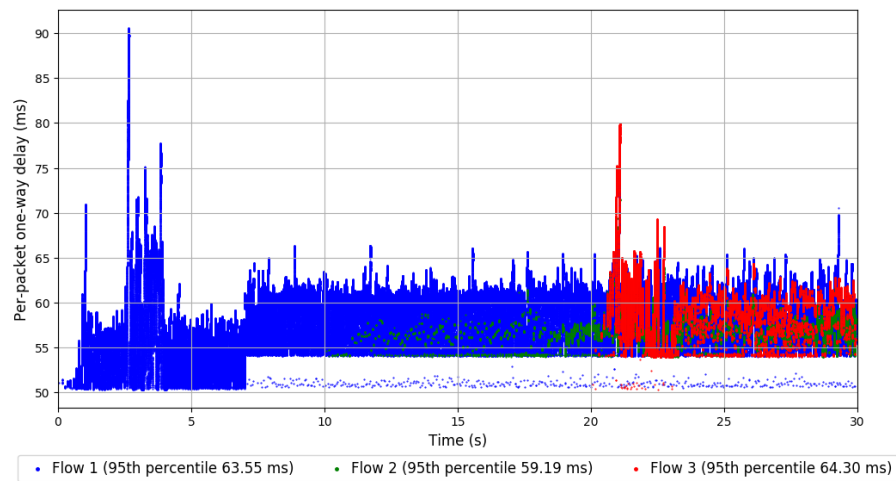
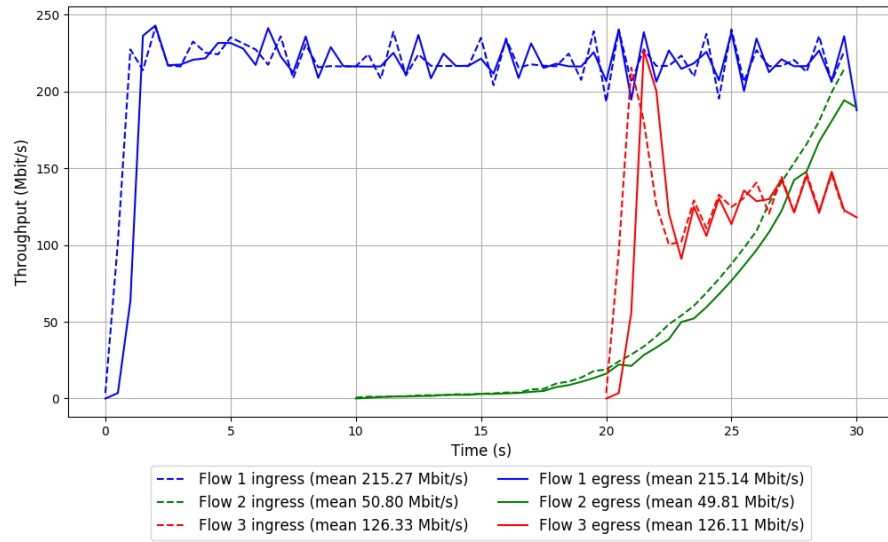
-- Flow 3:

Average throughput: 126.11 Mbit/s

95th percentile per-packet one-way delay: 64.298 ms

Loss rate: 1.18%

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

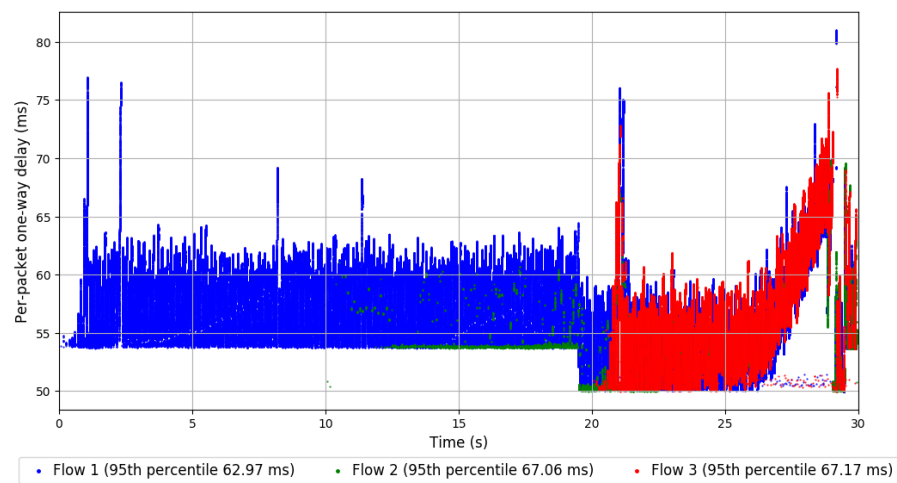
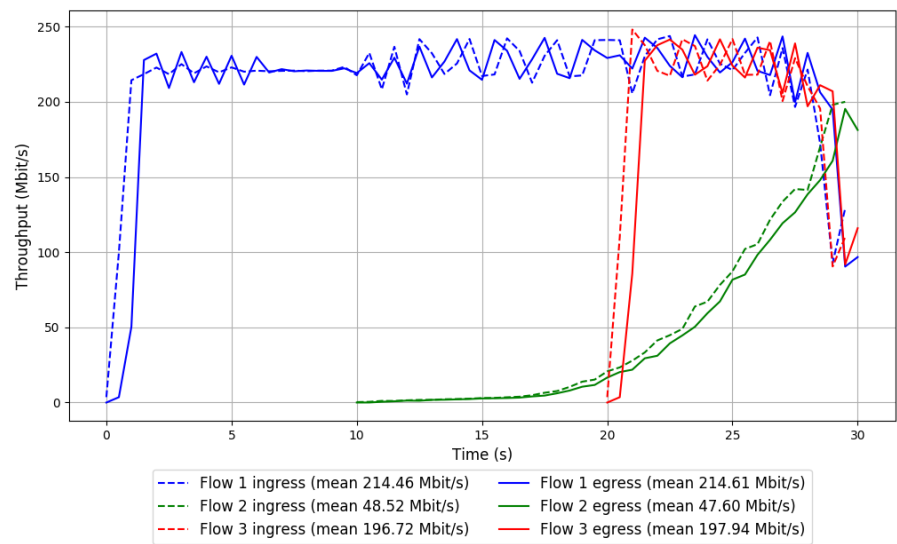


Run 7: Statistics of TCP Cubic

Start at: 2018-07-12 19:19:10  
End at: 2018-07-12 19:19:40  
Local clock offset: -0.036 ms  
Remote clock offset: -0.18 ms

# Below is generated by plot.py at 2018-07-12 21:31:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 311.38 Mbit/s  
95th percentile per-packet one-way delay: 64.917 ms  
Loss rate: 0.53%  
-- Flow 1:  
Average throughput: 214.61 Mbit/s  
95th percentile per-packet one-way delay: 62.969 ms  
Loss rate: 0.29%  
-- Flow 2:  
Average throughput: 47.60 Mbit/s  
95th percentile per-packet one-way delay: 67.055 ms  
Loss rate: 2.37%  
-- Flow 3:  
Average throughput: 197.94 Mbit/s  
95th percentile per-packet one-way delay: 67.172 ms  
Loss rate: 0.43%

Run 7: Report of TCP Cubic — Data Link

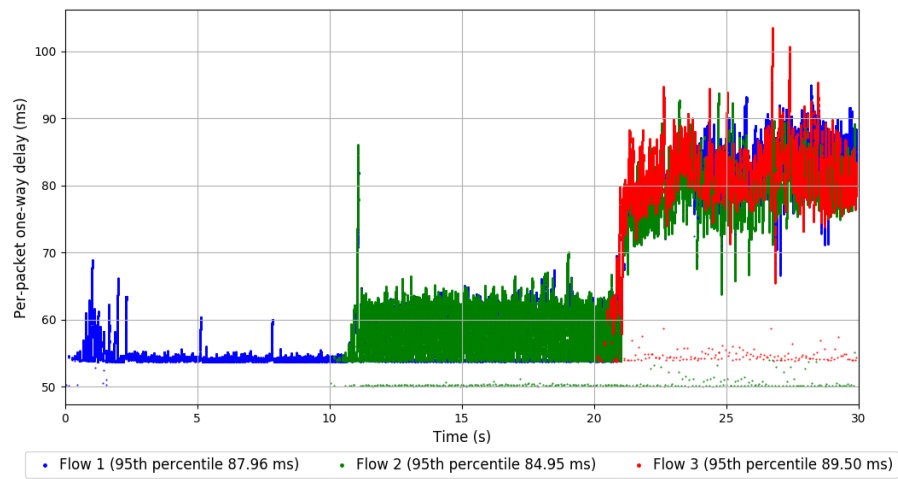
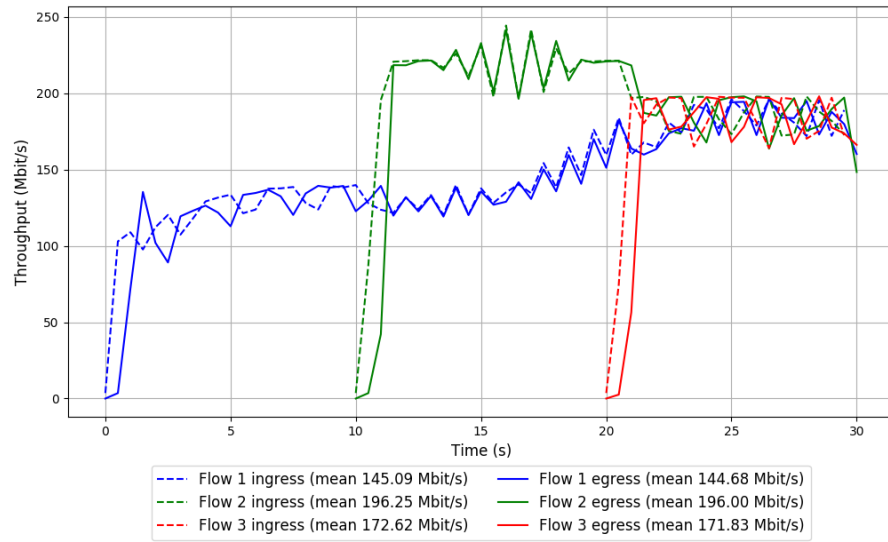


Run 8: Statistics of TCP Cubic

Start at: 2018-07-12 19:44:35  
End at: 2018-07-12 19:45:05  
Local clock offset: -0.036 ms  
Remote clock offset: -0.279 ms

```
# Below is generated by plot.py at 2018-07-12 21:32:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 331.44 Mbit/s
95th percentile per-packet one-way delay: 87.534 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 144.68 Mbit/s
95th percentile per-packet one-way delay: 87.956 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 196.00 Mbit/s
95th percentile per-packet one-way delay: 84.954 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 171.83 Mbit/s
95th percentile per-packet one-way delay: 89.499 ms
Loss rate: 1.43%
```

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



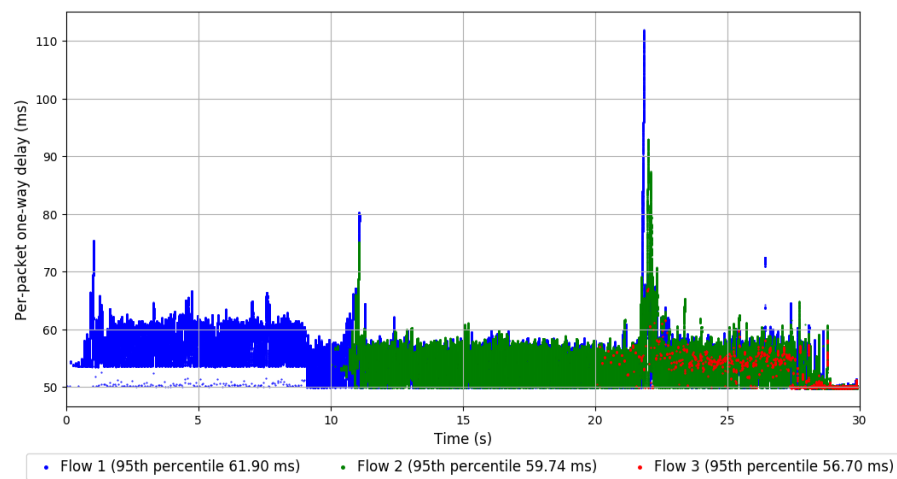
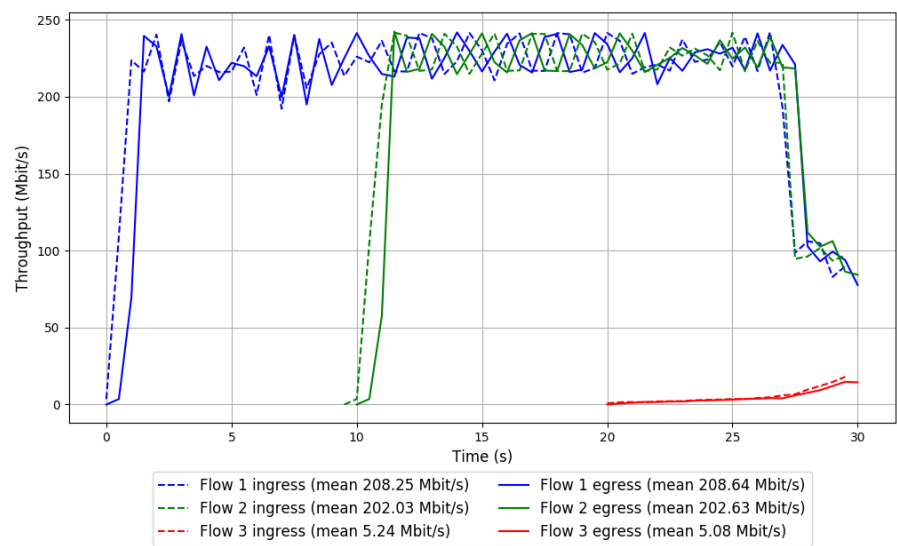
Run 9: Statistics of TCP Cubic

Start at: 2018-07-12 20:09:51  
End at: 2018-07-12 20:10:21  
Local clock offset: -0.055 ms  
Remote clock offset: -0.132 ms

# Below is generated by plot.py at 2018-07-12 21:32:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 345.06 Mbit/s  
95th percentile per-packet one-way delay: 61.557 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 208.64 Mbit/s  
95th percentile per-packet one-way delay: 61.898 ms  
Loss rate: 0.16%  
-- Flow 2:  
Average throughput: 202.63 Mbit/s  
95th percentile per-packet one-way delay: 59.744 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 5.08 Mbit/s  
95th percentile per-packet one-way delay: 56.695 ms  
Loss rate: 3.91%



Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-07-12 20:35:05

End at: 2018-07-12 20:35:35

Local clock offset: -0.002 ms

Remote clock offset: -0.46 ms

# Below is generated by plot.py at 2018-07-12 21:32:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 354.82 Mbit/s

95th percentile per-packet one-way delay: 66.467 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 216.91 Mbit/s

95th percentile per-packet one-way delay: 66.958 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 205.46 Mbit/s

95th percentile per-packet one-way delay: 64.986 ms

Loss rate: 0.32%

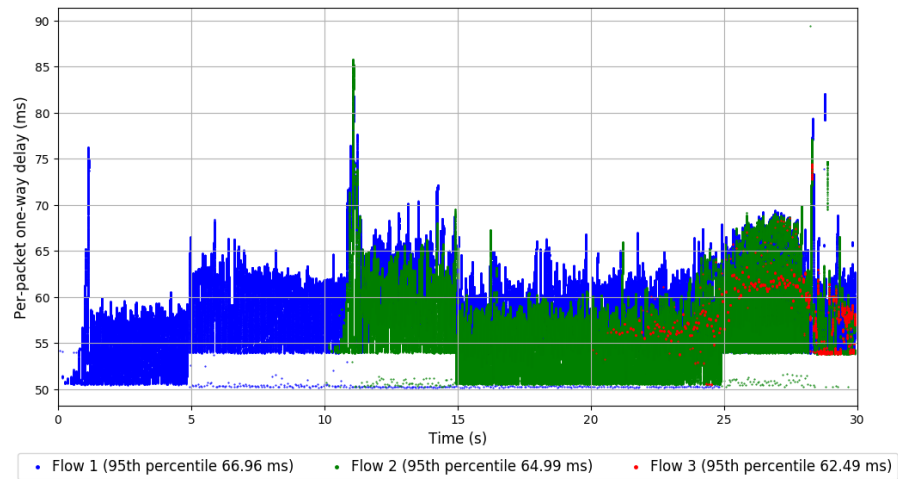
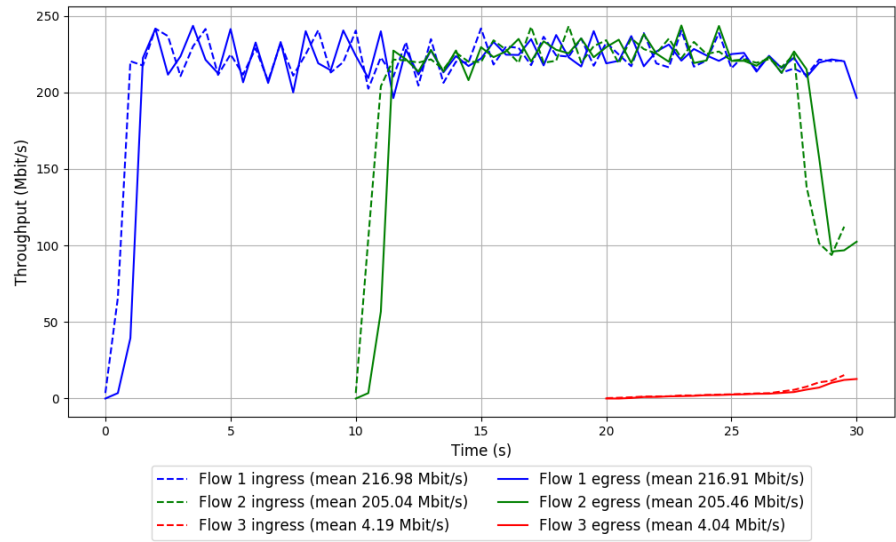
-- Flow 3:

Average throughput: 4.04 Mbit/s

95th percentile per-packet one-way delay: 62.489 ms

Loss rate: 4.56%

# Run 10: Report of TCP Cubic — Data Link

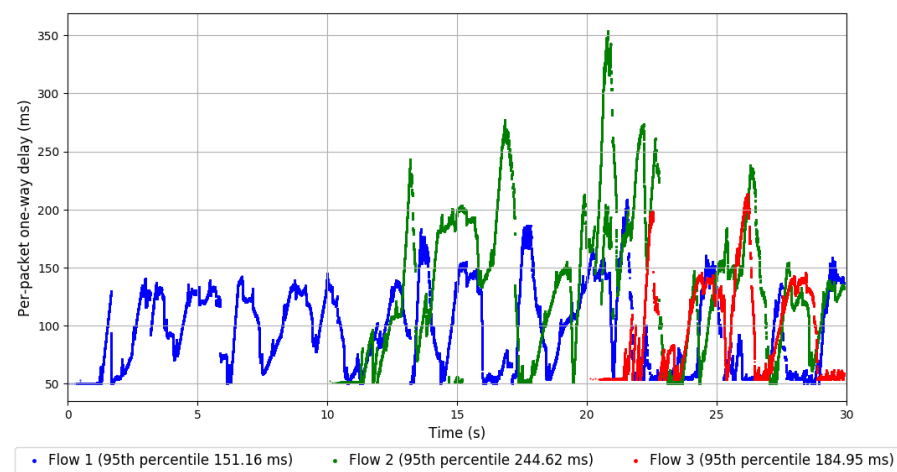
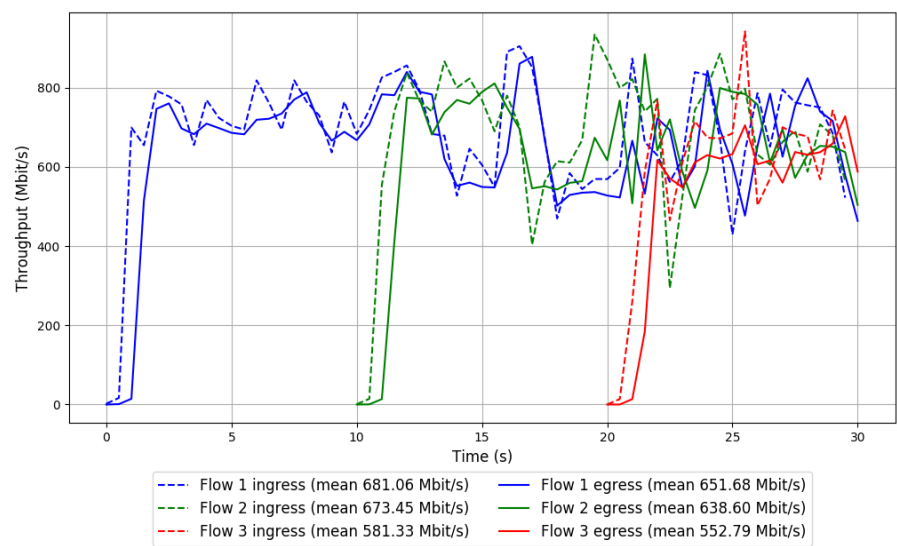


Run 1: Statistics of FillP

Start at: 2018-07-12 16:32:59  
End at: 2018-07-12 16:33:29  
Local clock offset: -0.151 ms  
Remote clock offset: -0.349 ms

# Below is generated by plot.py at 2018-07-12 21:54:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1256.56 Mbit/s  
95th percentile per-packet one-way delay: 200.217 ms  
Loss rate: 5.19%  
-- Flow 1:  
Average throughput: 651.68 Mbit/s  
95th percentile per-packet one-way delay: 151.163 ms  
Loss rate: 4.65%  
-- Flow 2:  
Average throughput: 638.60 Mbit/s  
95th percentile per-packet one-way delay: 244.625 ms  
Loss rate: 5.69%  
-- Flow 3:  
Average throughput: 552.79 Mbit/s  
95th percentile per-packet one-way delay: 184.946 ms  
Loss rate: 5.98%

Run 1: Report of FillP — Data Link

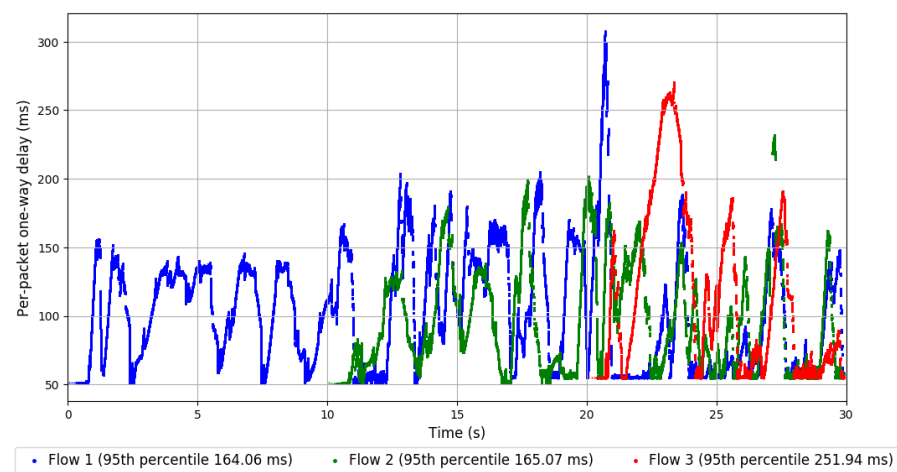
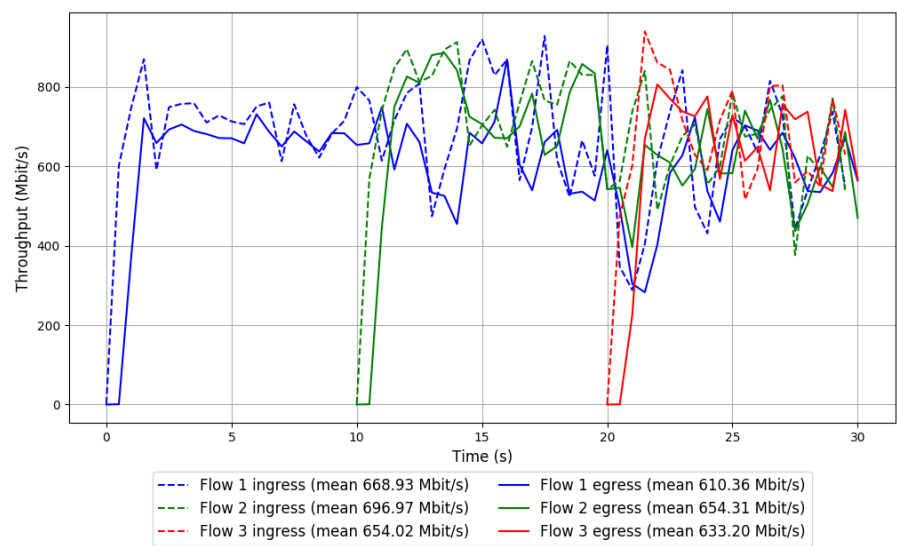


Run 2: Statistics of FillP

Start at: 2018-07-12 16:57:51  
End at: 2018-07-12 16:58:21  
Local clock offset: -0.179 ms  
Remote clock offset: -1.386 ms

# Below is generated by plot.py at 2018-07-12 21:56:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1253.59 Mbit/s  
95th percentile per-packet one-way delay: 178.809 ms  
Loss rate: 7.45%  
-- Flow 1:  
Average throughput: 610.36 Mbit/s  
95th percentile per-packet one-way delay: 164.056 ms  
Loss rate: 9.08%  
-- Flow 2:  
Average throughput: 654.31 Mbit/s  
95th percentile per-packet one-way delay: 165.066 ms  
Loss rate: 6.61%  
-- Flow 3:  
Average throughput: 633.20 Mbit/s  
95th percentile per-packet one-way delay: 251.940 ms  
Loss rate: 4.25%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-07-12 17:25:00

End at: 2018-07-12 17:25:30

Local clock offset: -0.15 ms

Remote clock offset: 1.098 ms

# Below is generated by plot.py at 2018-07-12 22:00:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1402.76 Mbit/s

95th percentile per-packet one-way delay: 209.093 ms

Loss rate: 5.05%

-- Flow 1:

Average throughput: 742.92 Mbit/s

95th percentile per-packet one-way delay: 216.239 ms

Loss rate: 5.04%

-- Flow 2:

Average throughput: 624.88 Mbit/s

95th percentile per-packet one-way delay: 219.308 ms

Loss rate: 5.76%

-- Flow 3:

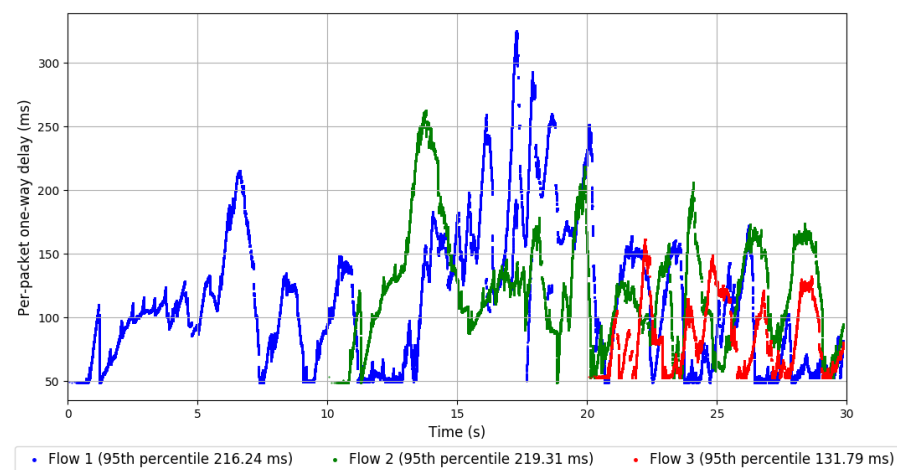
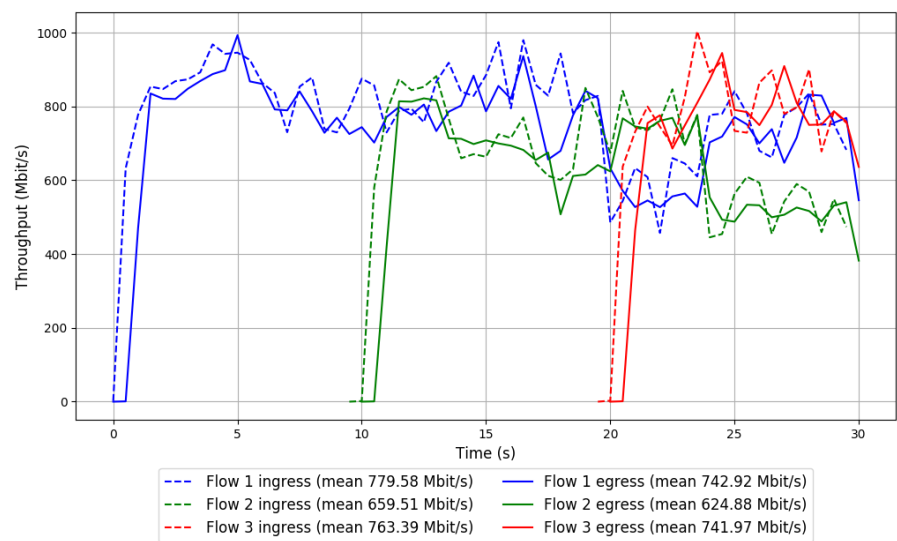
Average throughput: 741.97 Mbit/s

95th percentile per-packet one-way delay: 131.790 ms

Loss rate: 3.88%



Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-07-12 17:52:00

End at: 2018-07-12 17:52:30

Local clock offset: -0.341 ms

Remote clock offset: 0.131 ms

# Below is generated by plot.py at 2018-07-12 22:01:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1436.33 Mbit/s

95th percentile per-packet one-way delay: 169.718 ms

Loss rate: 3.81%

-- Flow 1:

Average throughput: 717.85 Mbit/s

95th percentile per-packet one-way delay: 143.558 ms

Loss rate: 4.33%

-- Flow 2:

Average throughput: 759.89 Mbit/s

95th percentile per-packet one-way delay: 195.155 ms

Loss rate: 3.45%

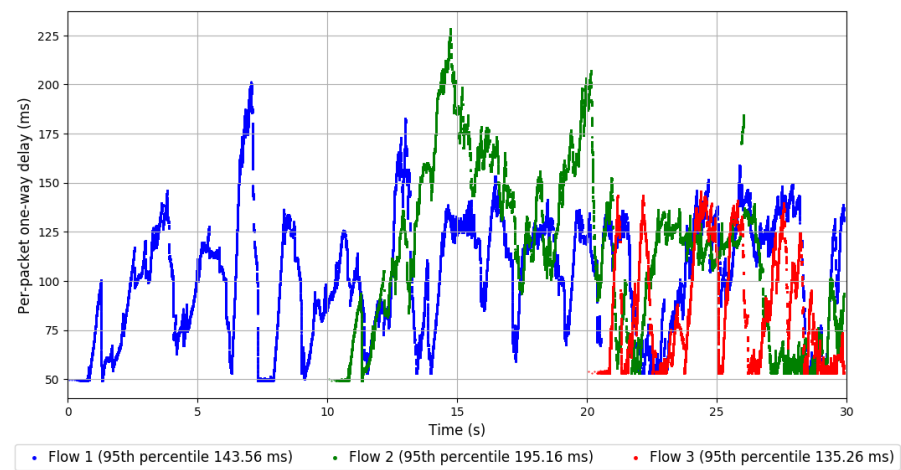
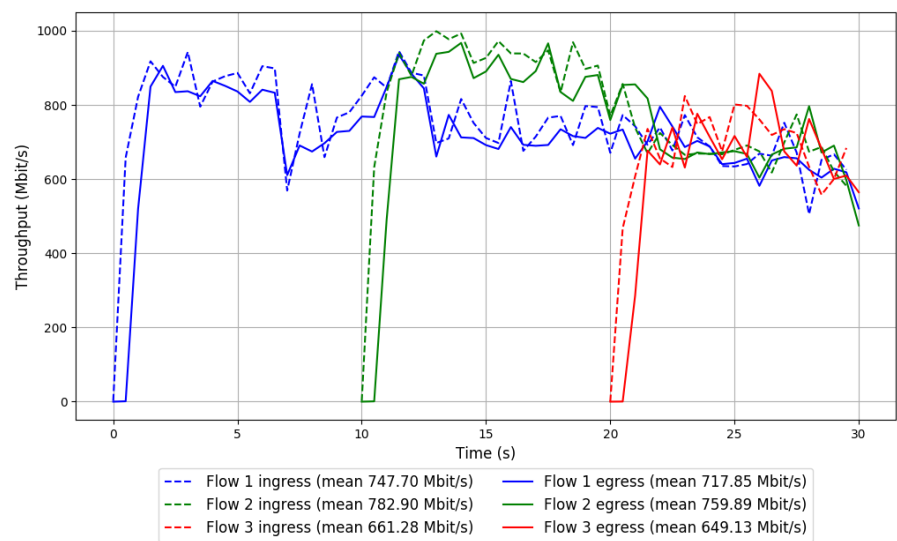
-- Flow 3:

Average throughput: 649.13 Mbit/s

95th percentile per-packet one-way delay: 135.258 ms

Loss rate: 2.91%

Run 4: Report of FillP — Data Link

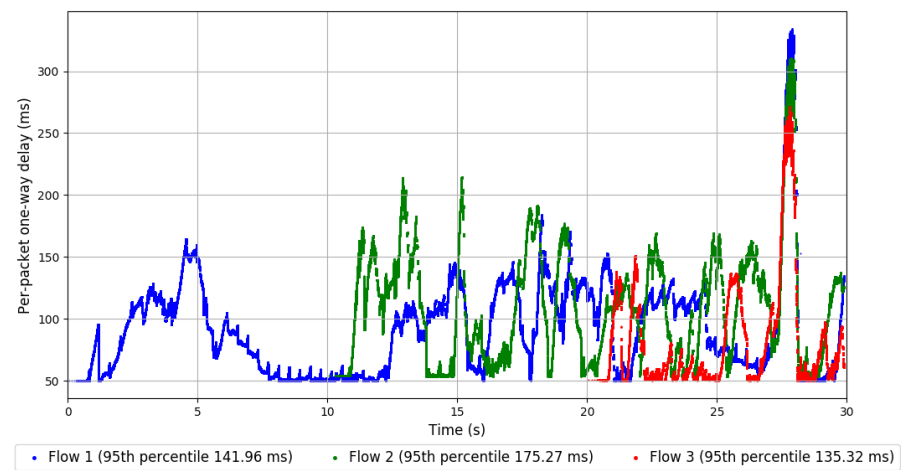
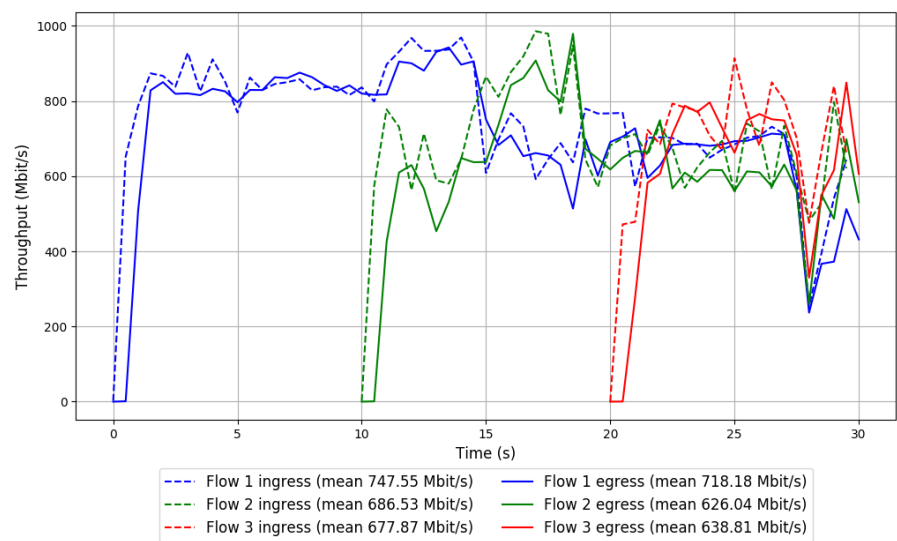


Run 5: Statistics of FillP

Start at: 2018-07-12 18:16:49  
End at: 2018-07-12 18:17:19  
Local clock offset: 0.041 ms  
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2018-07-12 22:01:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1344.38 Mbit/s  
95th percentile per-packet one-way delay: 156.148 ms  
Loss rate: 6.27%  
-- Flow 1:  
Average throughput: 718.18 Mbit/s  
95th percentile per-packet one-way delay: 141.955 ms  
Loss rate: 4.26%  
-- Flow 2:  
Average throughput: 626.04 Mbit/s  
95th percentile per-packet one-way delay: 175.269 ms  
Loss rate: 9.31%  
-- Flow 3:  
Average throughput: 638.81 Mbit/s  
95th percentile per-packet one-way delay: 135.323 ms  
Loss rate: 6.76%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-12 18:41:55

End at: 2018-07-12 18:42:25

Local clock offset: 0.355 ms

Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2018-07-12 22:02:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1366.21 Mbit/s

95th percentile per-packet one-way delay: 201.771 ms

Loss rate: 4.42%

-- Flow 1:

Average throughput: 682.59 Mbit/s

95th percentile per-packet one-way delay: 159.059 ms

Loss rate: 3.48%

-- Flow 2:

Average throughput: 703.43 Mbit/s

95th percentile per-packet one-way delay: 232.198 ms

Loss rate: 4.77%

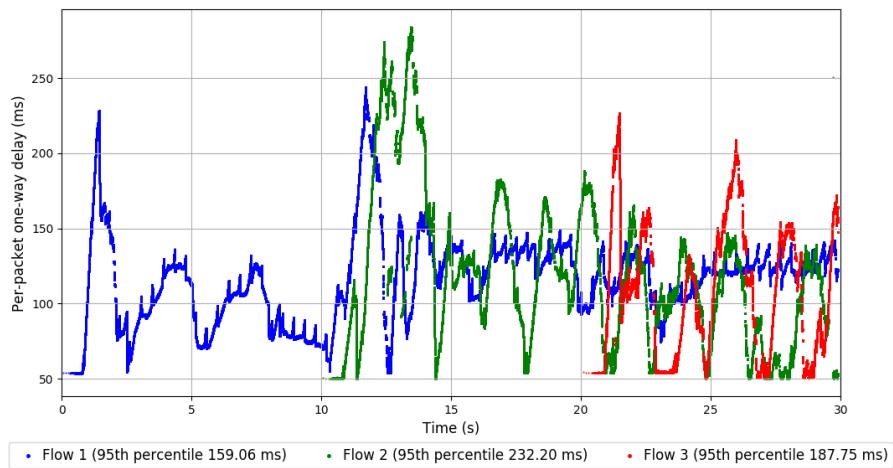
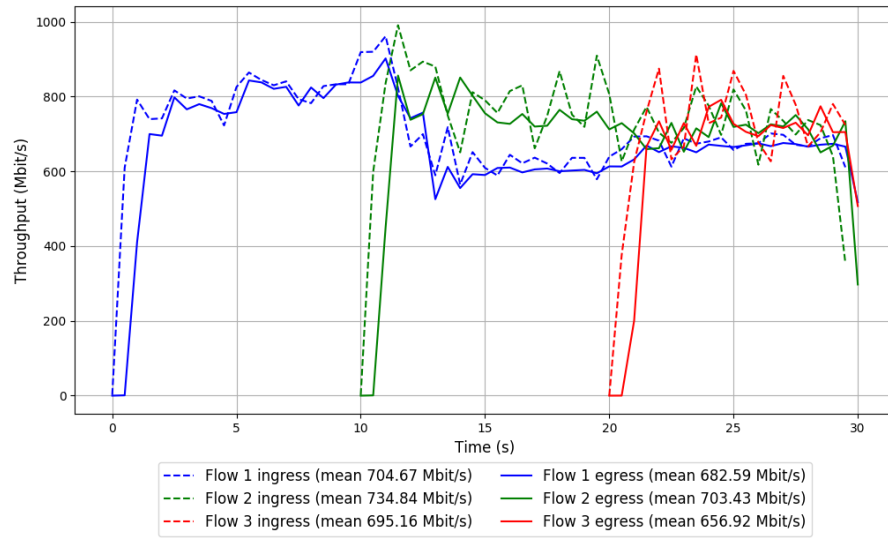
-- Flow 3:

Average throughput: 656.92 Mbit/s

95th percentile per-packet one-way delay: 187.749 ms

Loss rate: 6.54%

## Run 6: Report of FillP — Data Link



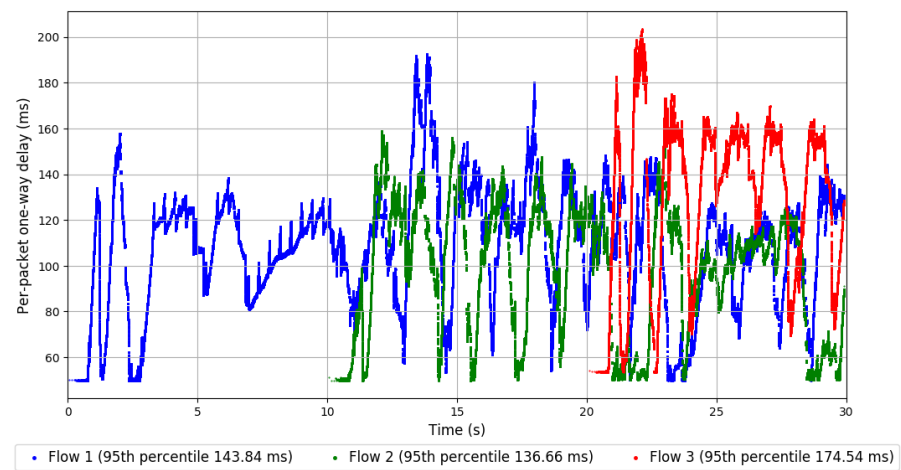
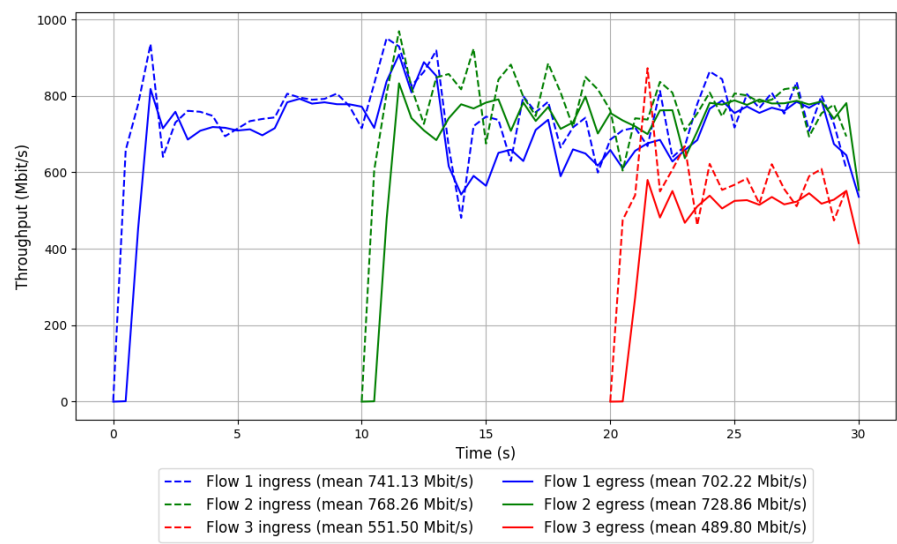
Run 7: Statistics of FillP

Start at: 2018-07-12 19:07:24  
End at: 2018-07-12 19:07:54  
Local clock offset: -0.033 ms  
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2018-07-12 22:02:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1347.61 Mbit/s  
95th percentile per-packet one-way delay: 154.534 ms  
Loss rate: 6.43%  
-- Flow 1:  
Average throughput: 702.22 Mbit/s  
95th percentile per-packet one-way delay: 143.840 ms  
Loss rate: 5.58%  
-- Flow 2:  
Average throughput: 728.86 Mbit/s  
95th percentile per-packet one-way delay: 136.663 ms  
Loss rate: 5.63%  
-- Flow 3:  
Average throughput: 489.80 Mbit/s  
95th percentile per-packet one-way delay: 174.536 ms  
Loss rate: 12.16%



Run 7: Report of FillP — Data Link

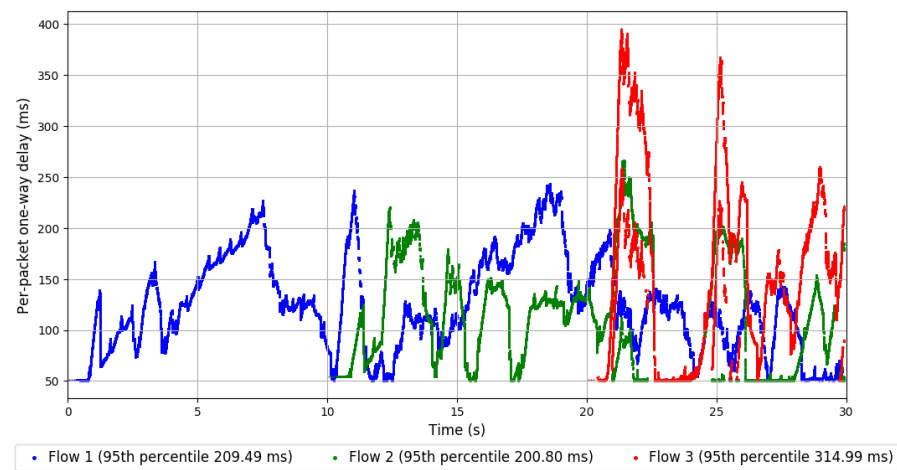
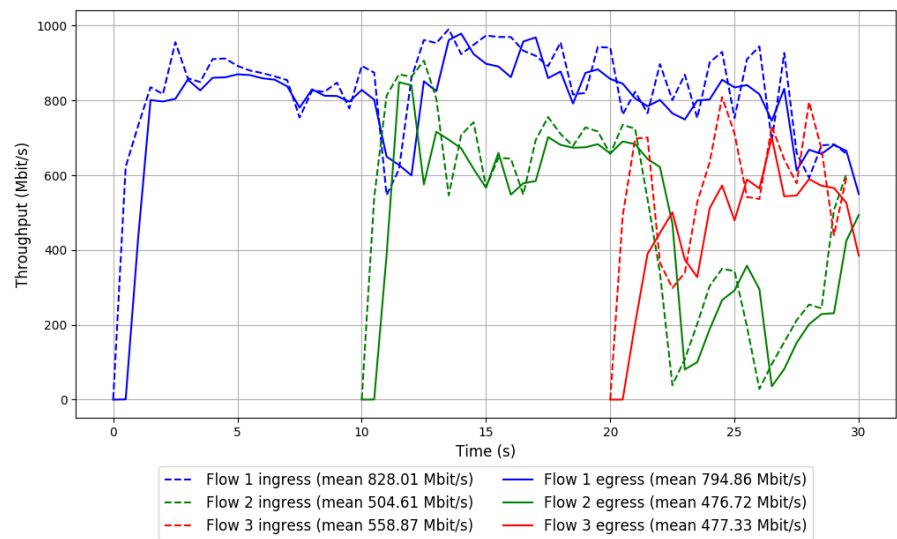


Run 8: Statistics of FillP

Start at: 2018-07-12 19:32:44  
End at: 2018-07-12 19:33:14  
Local clock offset: 0.588 ms  
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2018-07-12 22:02:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1268.80 Mbit/s  
95th percentile per-packet one-way delay: 219.444 ms  
Loss rate: 6.29%  
-- Flow 1:  
Average throughput: 794.86 Mbit/s  
95th percentile per-packet one-way delay: 209.490 ms  
Loss rate: 4.34%  
-- Flow 2:  
Average throughput: 476.72 Mbit/s  
95th percentile per-packet one-way delay: 200.802 ms  
Loss rate: 6.04%  
-- Flow 3:  
Average throughput: 477.33 Mbit/s  
95th percentile per-packet one-way delay: 314.989 ms  
Loss rate: 15.49%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-12 19:58:24

End at: 2018-07-12 19:58:54

Local clock offset: -0.054 ms

Remote clock offset: -0.27 ms

# Below is generated by plot.py at 2018-07-12 22:19:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1098.32 Mbit/s

95th percentile per-packet one-way delay: 233.283 ms

Loss rate: 3.68%

-- Flow 1:

Average throughput: 584.45 Mbit/s

95th percentile per-packet one-way delay: 222.293 ms

Loss rate: 3.70%

-- Flow 2:

Average throughput: 440.96 Mbit/s

95th percentile per-packet one-way delay: 267.350 ms

Loss rate: 3.30%

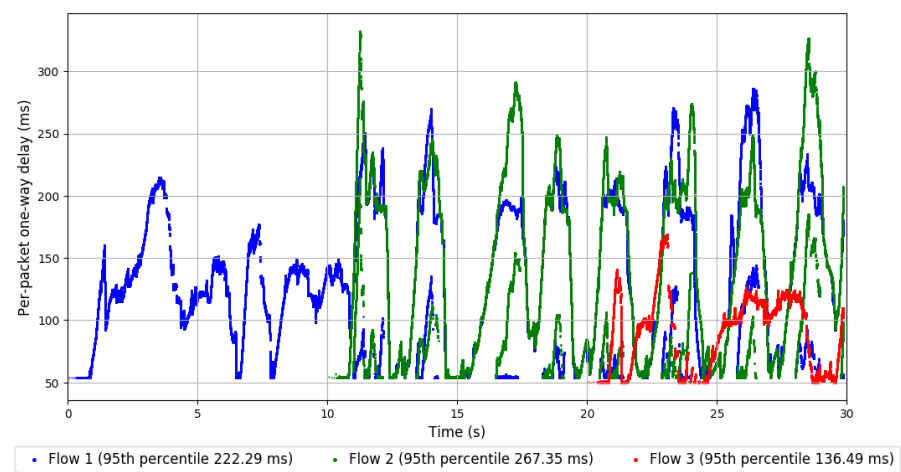
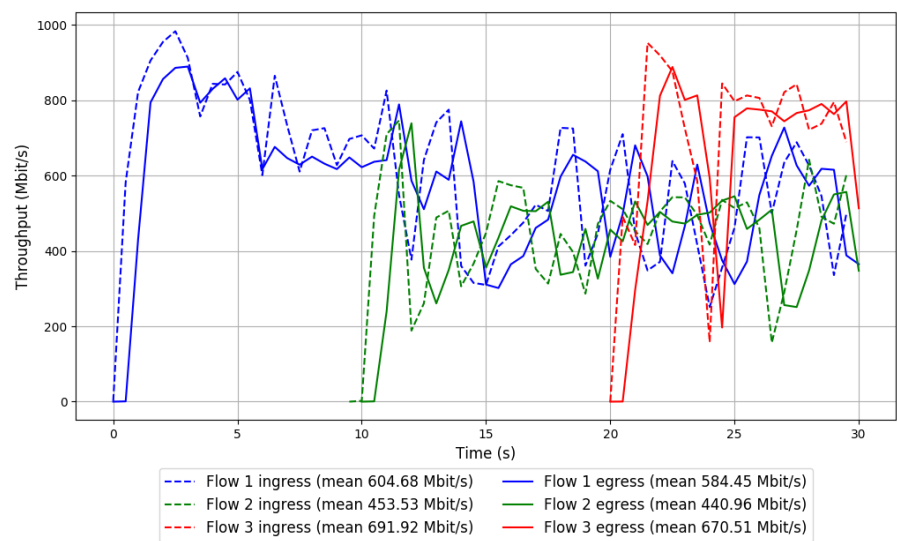
-- Flow 3:

Average throughput: 670.51 Mbit/s

95th percentile per-packet one-way delay: 136.485 ms

Loss rate: 4.12%

Run 9: Report of FillP — Data Link

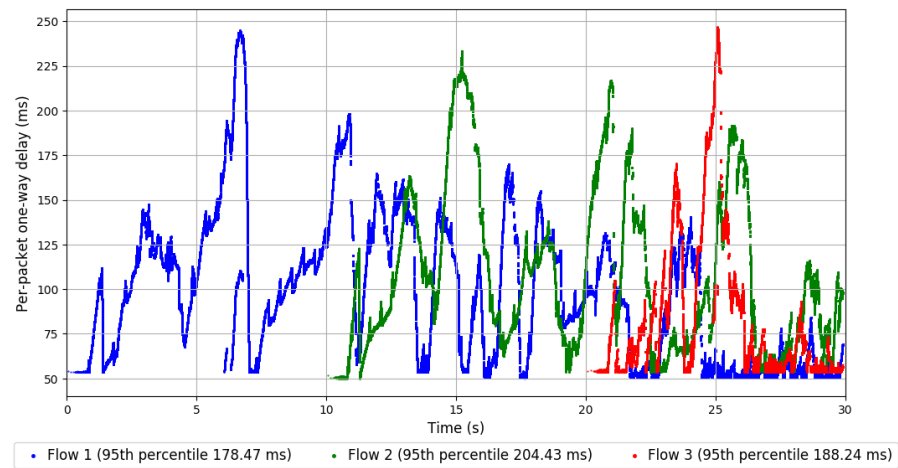
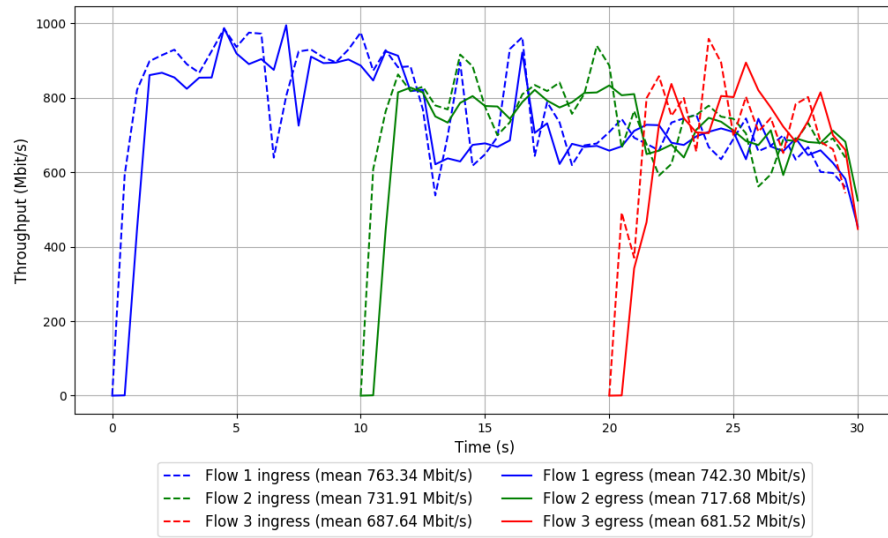


Run 10: Statistics of FillP

Start at: 2018-07-12 20:23:14  
End at: 2018-07-12 20:23:44  
Local clock offset: 0.003 ms  
Remote clock offset: -0.158 ms

# Below is generated by plot.py at 2018-07-12 22:29:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1443.73 Mbit/s  
95th percentile per-packet one-way delay: 187.181 ms  
Loss rate: 2.71%  
-- Flow 1:  
Average throughput: 742.30 Mbit/s  
95th percentile per-packet one-way delay: 178.468 ms  
Loss rate: 3.09%  
-- Flow 2:  
Average throughput: 717.68 Mbit/s  
95th percentile per-packet one-way delay: 204.428 ms  
Loss rate: 2.47%  
-- Flow 3:  
Average throughput: 681.52 Mbit/s  
95th percentile per-packet one-way delay: 188.236 ms  
Loss rate: 1.97%

### Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-07-12 16:48:48

End at: 2018-07-12 16:49:18

Local clock offset: -0.054 ms

Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2018-07-12 22:29:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1220.91 Mbit/s

95th percentile per-packet one-way delay: 227.130 ms

Loss rate: 7.59%

-- Flow 1:

Average throughput: 628.02 Mbit/s

95th percentile per-packet one-way delay: 246.094 ms

Loss rate: 9.22%

-- Flow 2:

Average throughput: 619.43 Mbit/s

95th percentile per-packet one-way delay: 187.276 ms

Loss rate: 7.21%

-- Flow 3:

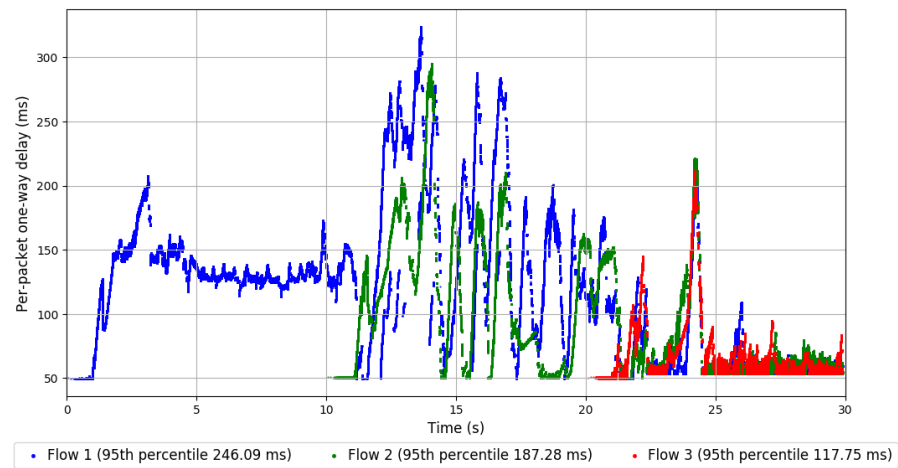
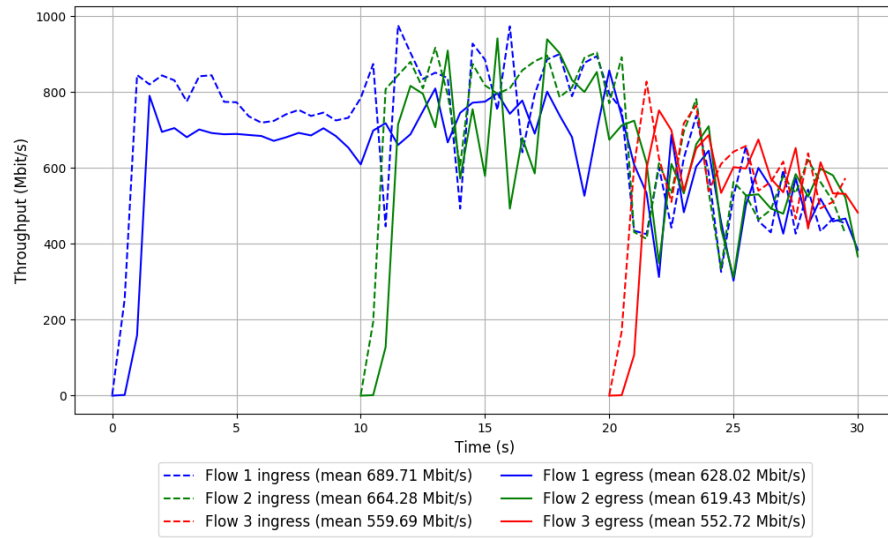
Average throughput: 552.72 Mbit/s

95th percentile per-packet one-way delay: 117.755 ms

Loss rate: 2.40%



## Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-07-12 17:15:01

End at: 2018-07-12 17:15:31

Local clock offset: 0.036 ms

Remote clock offset: -1.33 ms

# Below is generated by plot.py at 2018-07-12 22:29:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1237.05 Mbit/s

95th percentile per-packet one-way delay: 164.943 ms

Loss rate: 4.85%

-- Flow 1:

Average throughput: 653.76 Mbit/s

95th percentile per-packet one-way delay: 189.186 ms

Loss rate: 5.39%

-- Flow 2:

Average throughput: 606.80 Mbit/s

95th percentile per-packet one-way delay: 149.439 ms

Loss rate: 5.57%

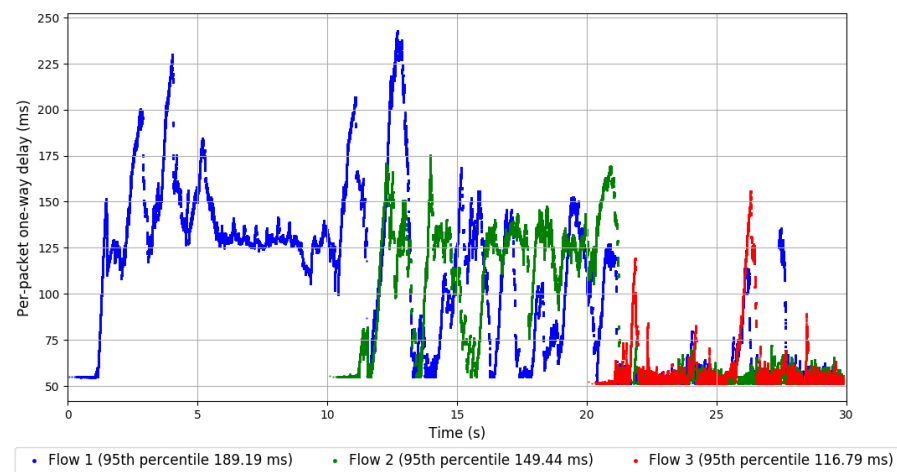
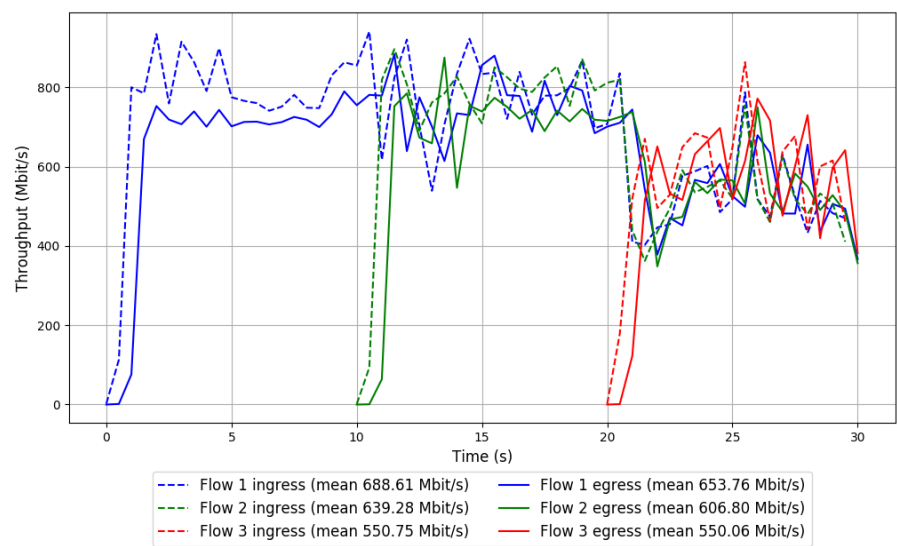
-- Flow 3:

Average throughput: 550.06 Mbit/s

95th percentile per-packet one-way delay: 116.786 ms

Loss rate: 1.12%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-07-12 17:42:57

End at: 2018-07-12 17:43:27

Local clock offset: 0.141 ms

Remote clock offset: -0.17 ms

# Below is generated by plot.py at 2018-07-12 22:29:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1026.39 Mbit/s

95th percentile per-packet one-way delay: 247.726 ms

Loss rate: 5.96%

-- Flow 1:

Average throughput: 273.04 Mbit/s

95th percentile per-packet one-way delay: 259.673 ms

Loss rate: 6.44%

-- Flow 2:

Average throughput: 796.33 Mbit/s

95th percentile per-packet one-way delay: 248.777 ms

Loss rate: 5.32%

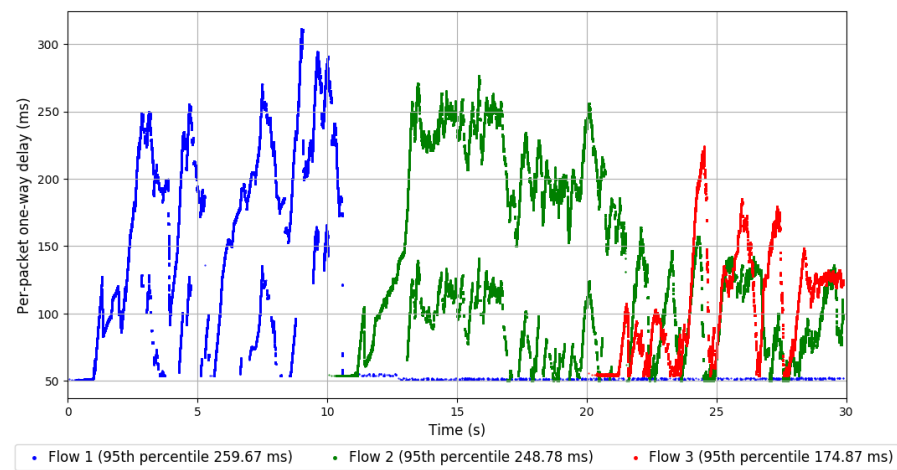
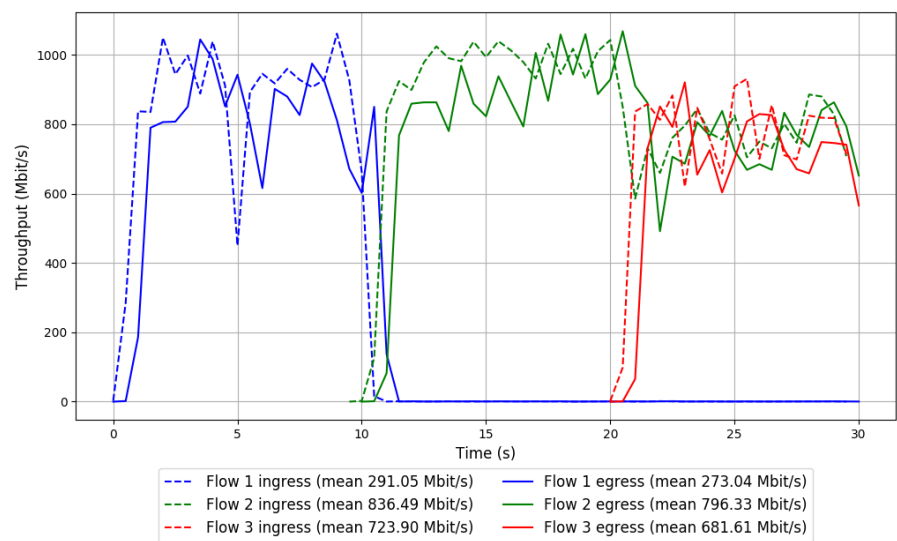
-- Flow 3:

Average throughput: 681.61 Mbit/s

95th percentile per-packet one-way delay: 174.870 ms

Loss rate: 6.89%

Run 3: Report of FillP-Sheep — Data Link

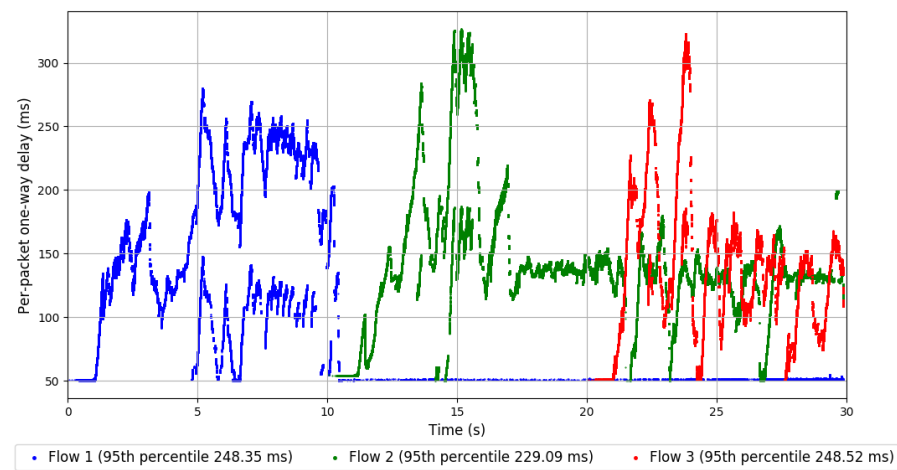
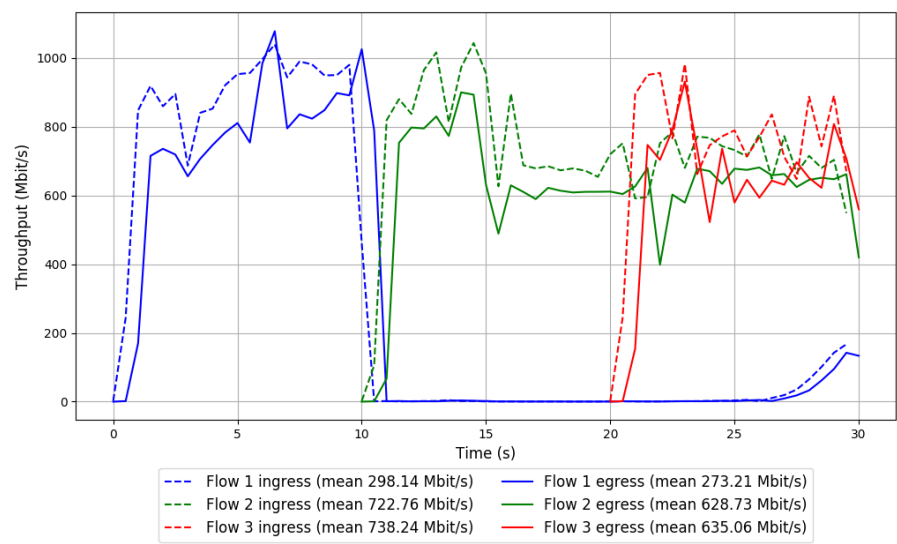


Run 4: Statistics of FillP-Sheep

Start at: 2018-07-12 18:08:08  
End at: 2018-07-12 18:08:38  
Local clock offset: -0.039 ms  
Remote clock offset: -0.151 ms

# Below is generated by plot.py at 2018-07-12 22:29:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 899.55 Mbit/s  
95th percentile per-packet one-way delay: 247.256 ms  
Loss rate: 12.39%  
-- Flow 1:  
Average throughput: 273.21 Mbit/s  
95th percentile per-packet one-way delay: 248.352 ms  
Loss rate: 8.68%  
-- Flow 2:  
Average throughput: 628.73 Mbit/s  
95th percentile per-packet one-way delay: 229.090 ms  
Loss rate: 13.43%  
-- Flow 3:  
Average throughput: 635.06 Mbit/s  
95th percentile per-packet one-way delay: 248.520 ms  
Loss rate: 14.90%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-07-12 18:32:57

End at: 2018-07-12 18:33:27

Local clock offset: -0.06 ms

Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2018-07-12 22:32:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1322.16 Mbit/s

95th percentile per-packet one-way delay: 221.482 ms

Loss rate: 7.67%

-- Flow 1:

Average throughput: 698.05 Mbit/s

95th percentile per-packet one-way delay: 225.637 ms

Loss rate: 8.19%

-- Flow 2:

Average throughput: 614.49 Mbit/s

95th percentile per-packet one-way delay: 220.379 ms

Loss rate: 7.72%

-- Flow 3:

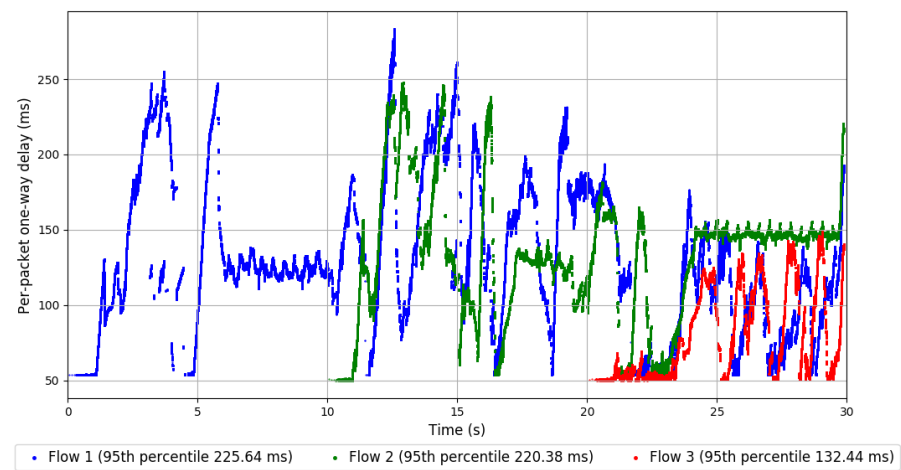
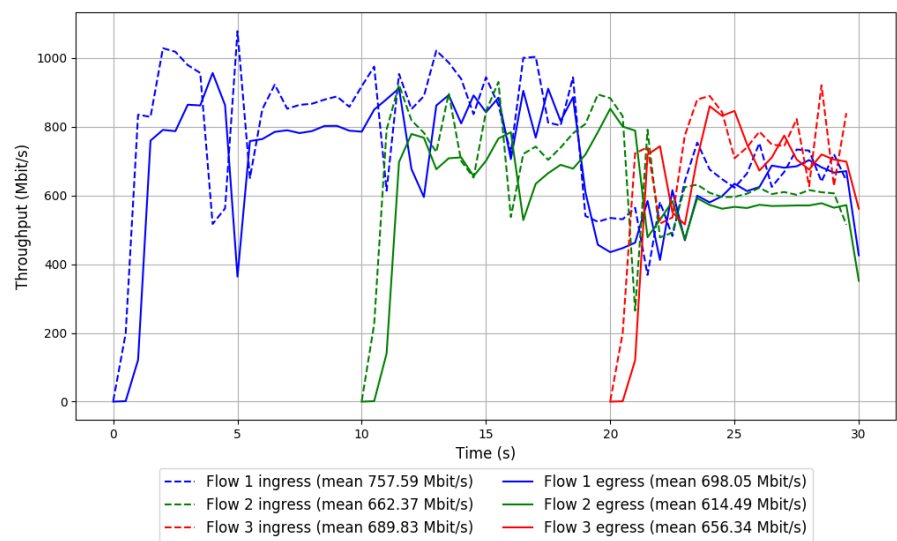
Average throughput: 656.34 Mbit/s

95th percentile per-packet one-way delay: 132.436 ms

Loss rate: 5.86%



Run 5: Report of FillP-Sheep — Data Link

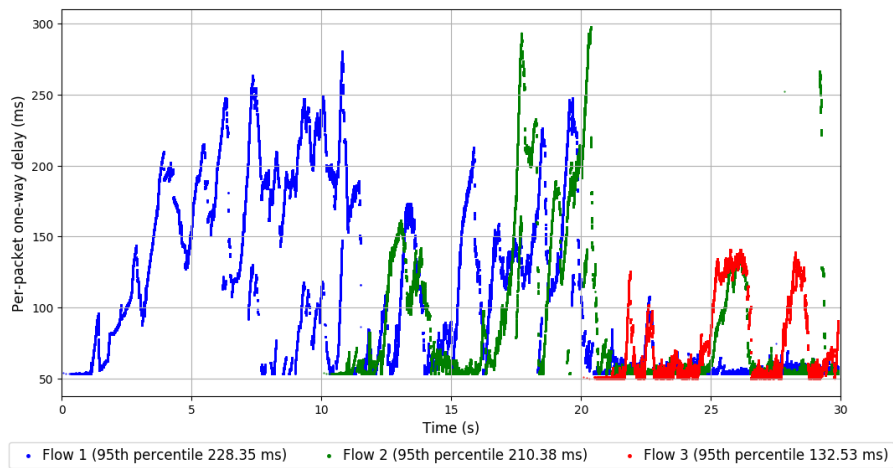
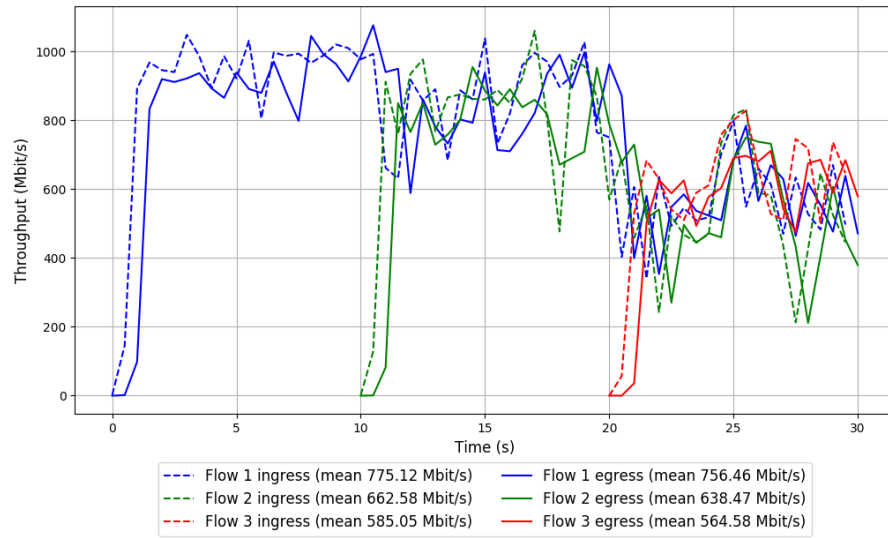


Run 6: Statistics of FillP-Sheep

Start at: 2018-07-12 18:58:04  
End at: 2018-07-12 18:58:34  
Local clock offset: -0.013 ms  
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2018-07-12 22:32:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1365.80 Mbit/s  
95th percentile per-packet one-way delay: 221.102 ms  
Loss rate: 3.43%  
-- Flow 1:  
Average throughput: 756.46 Mbit/s  
95th percentile per-packet one-way delay: 228.350 ms  
Loss rate: 2.76%  
-- Flow 2:  
Average throughput: 638.47 Mbit/s  
95th percentile per-packet one-way delay: 210.376 ms  
Loss rate: 4.16%  
-- Flow 3:  
Average throughput: 564.58 Mbit/s  
95th percentile per-packet one-way delay: 132.526 ms  
Loss rate: 4.48%

# Run 6: Report of FillP-Sheep — Data Link

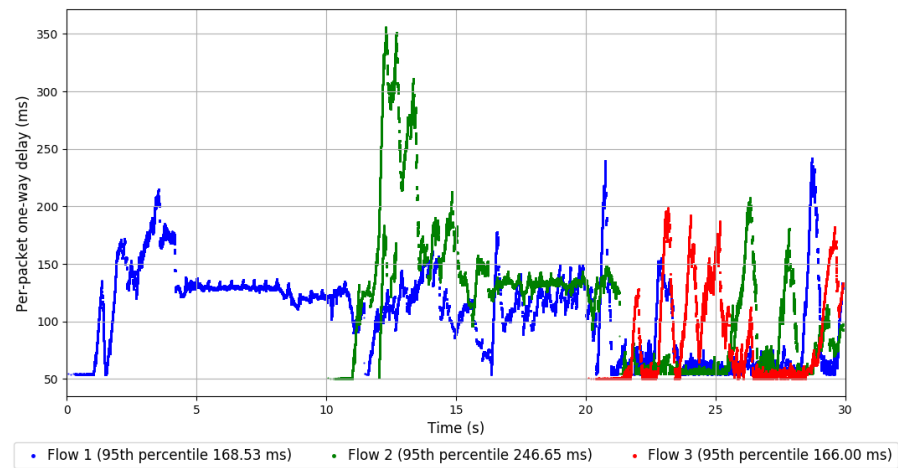
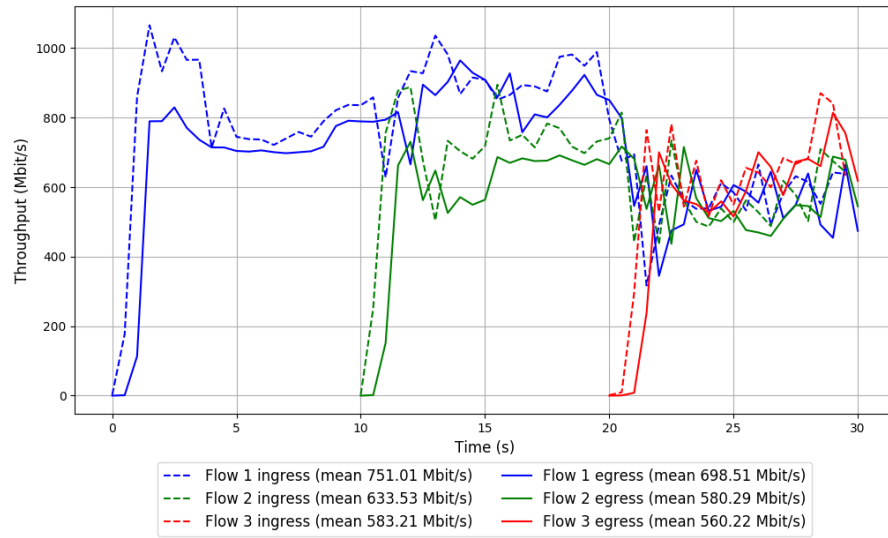


Run 7: Statistics of FillP-Sheep

Start at: 2018-07-12 19:23:27  
End at: 2018-07-12 19:23:57  
Local clock offset: 0.303 ms  
Remote clock offset: -0.175 ms

# Below is generated by plot.py at 2018-07-12 22:50:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1268.49 Mbit/s  
95th percentile per-packet one-way delay: 176.279 ms  
Loss rate: 7.46%  
-- Flow 1:  
Average throughput: 698.51 Mbit/s  
95th percentile per-packet one-way delay: 168.534 ms  
Loss rate: 7.31%  
-- Flow 2:  
Average throughput: 580.29 Mbit/s  
95th percentile per-packet one-way delay: 246.647 ms  
Loss rate: 8.87%  
-- Flow 3:  
Average throughput: 560.22 Mbit/s  
95th percentile per-packet one-way delay: 166.003 ms  
Loss rate: 4.92%

## Run 7: Report of FillP-Sheep — Data Link

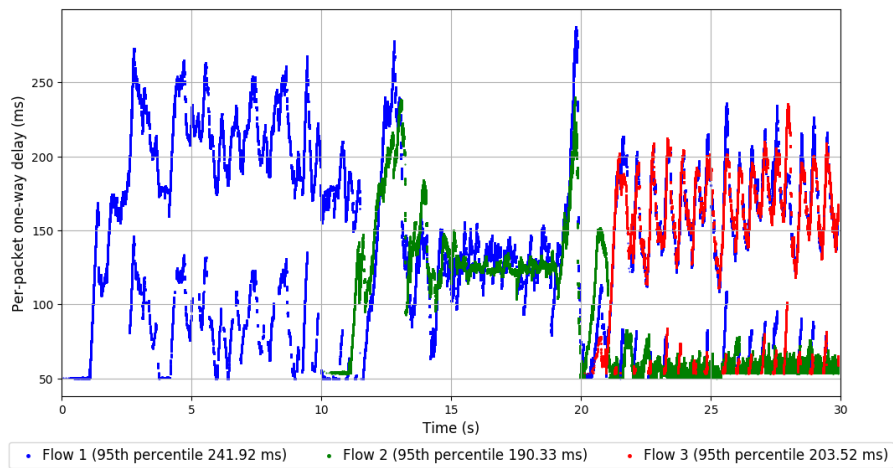
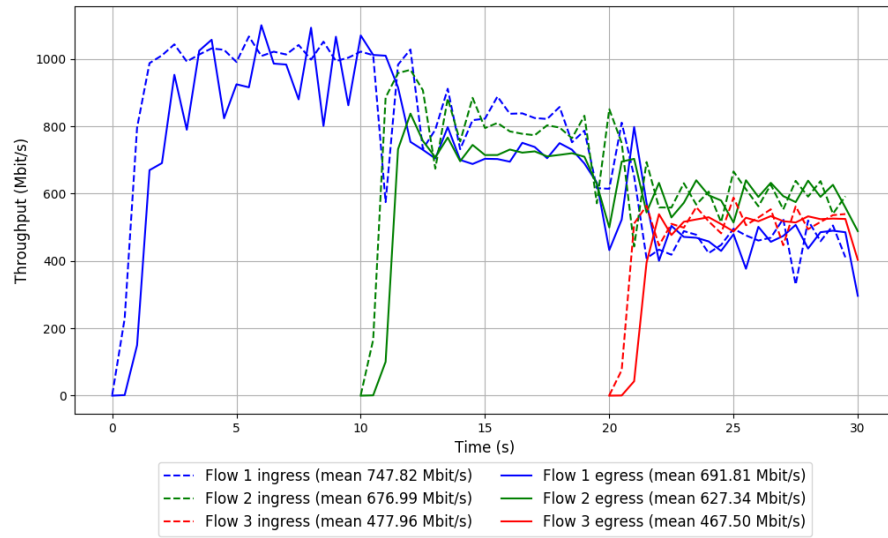


Run 8: Statistics of FillP-Sheep

Start at: 2018-07-12 19:49:04  
End at: 2018-07-12 19:49:34  
Local clock offset: -0.023 ms  
Remote clock offset: -0.112 ms

```
# Below is generated by plot.py at 2018-07-12 22:51:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1261.53 Mbit/s
95th percentile per-packet one-way delay: 231.091 ms
Loss rate: 7.27%
-- Flow 1:
Average throughput: 691.81 Mbit/s
95th percentile per-packet one-way delay: 241.920 ms
Loss rate: 7.81%
-- Flow 2:
Average throughput: 627.34 Mbit/s
95th percentile per-packet one-way delay: 190.332 ms
Loss rate: 7.83%
-- Flow 3:
Average throughput: 467.50 Mbit/s
95th percentile per-packet one-way delay: 203.518 ms
Loss rate: 3.12%
```

# Run 8: Report of FillP-Sheep — Data Link



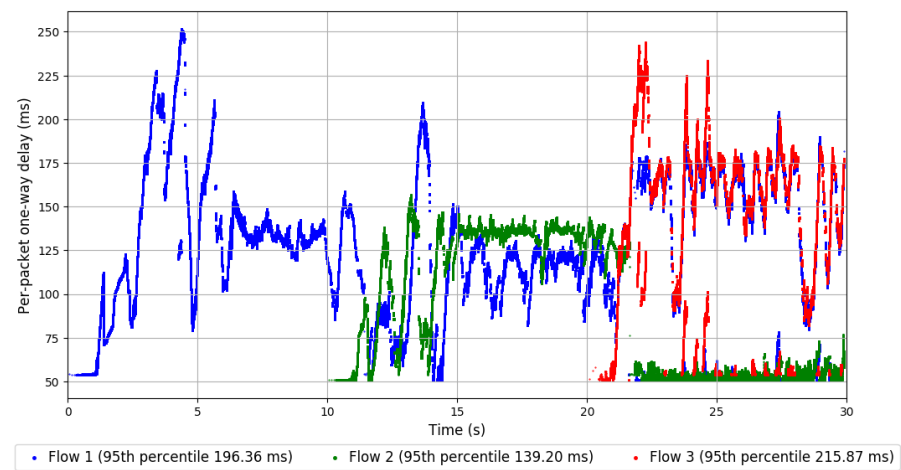
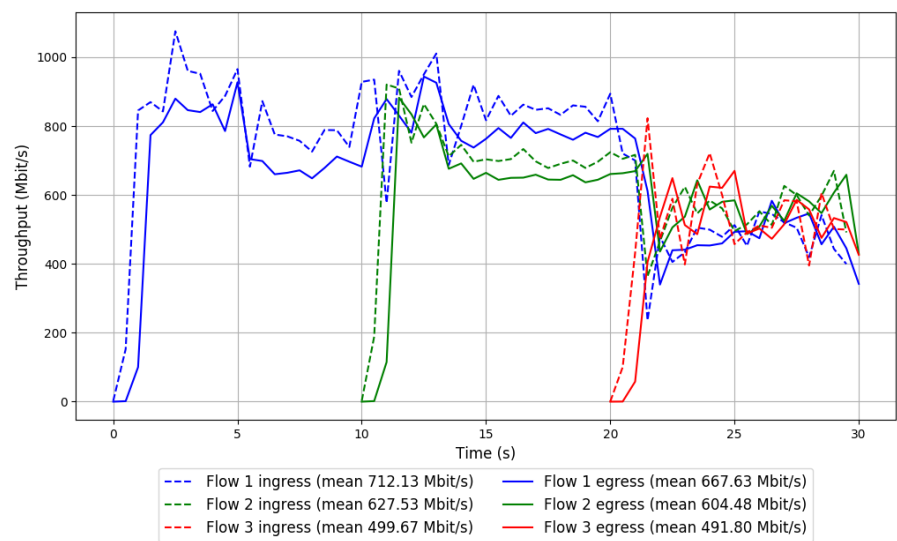
Run 9: Statistics of FillP-Sheep

Start at: 2018-07-12 20:14:18  
End at: 2018-07-12 20:14:48  
Local clock offset: 0.173 ms  
Remote clock offset: -0.334 ms

# Below is generated by plot.py at 2018-07-12 22:52:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1230.89 Mbit/s  
95th percentile per-packet one-way delay: 188.517 ms  
Loss rate: 5.28%  
-- Flow 1:  
Average throughput: 667.63 Mbit/s  
95th percentile per-packet one-way delay: 196.361 ms  
Loss rate: 6.54%  
-- Flow 2:  
Average throughput: 604.48 Mbit/s  
95th percentile per-packet one-way delay: 139.199 ms  
Loss rate: 4.18%  
-- Flow 3:  
Average throughput: 491.80 Mbit/s  
95th percentile per-packet one-way delay: 215.872 ms  
Loss rate: 2.62%



Run 9: Report of FillP-Sheep — Data Link

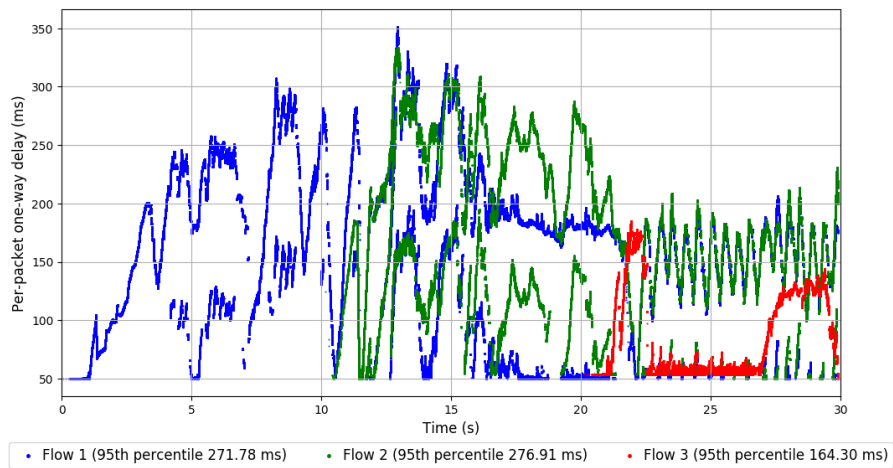
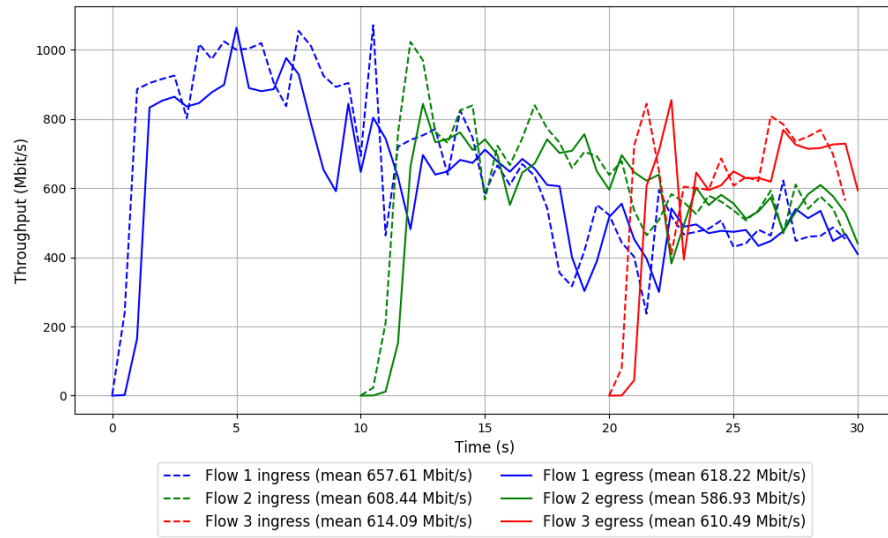


Run 10: Statistics of FillP-Sheep

Start at: 2018-07-12 20:39:32  
End at: 2018-07-12 20:40:02  
Local clock offset: -0.092 ms  
Remote clock offset: -0.251 ms

# Below is generated by plot.py at 2018-07-12 22:55:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1206.94 Mbit/s  
95th percentile per-packet one-way delay: 269.832 ms  
Loss rate: 4.93%  
-- Flow 1:  
Average throughput: 618.22 Mbit/s  
95th percentile per-packet one-way delay: 271.778 ms  
Loss rate: 6.31%  
-- Flow 2:  
Average throughput: 586.93 Mbit/s  
95th percentile per-packet one-way delay: 276.909 ms  
Loss rate: 4.31%  
-- Flow 3:  
Average throughput: 610.49 Mbit/s  
95th percentile per-packet one-way delay: 164.299 ms  
Loss rate: 1.68%

## Run 10: Report of FillP-Sheep — Data Link

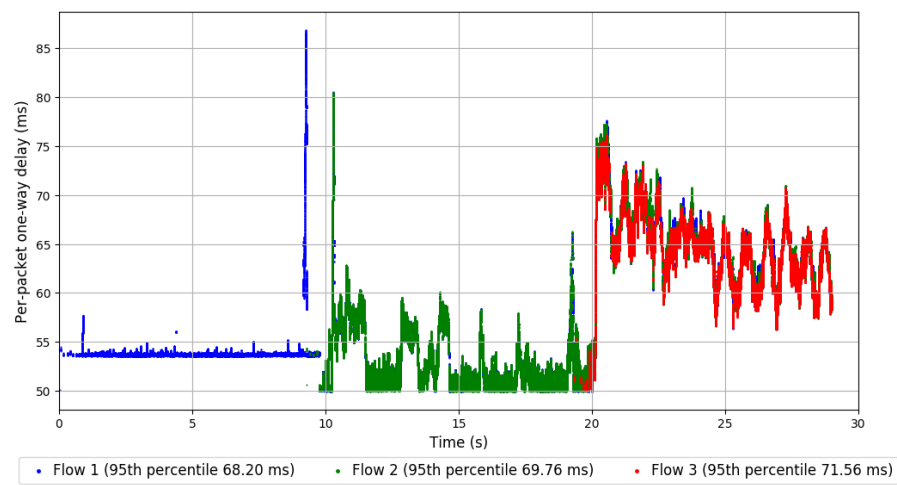
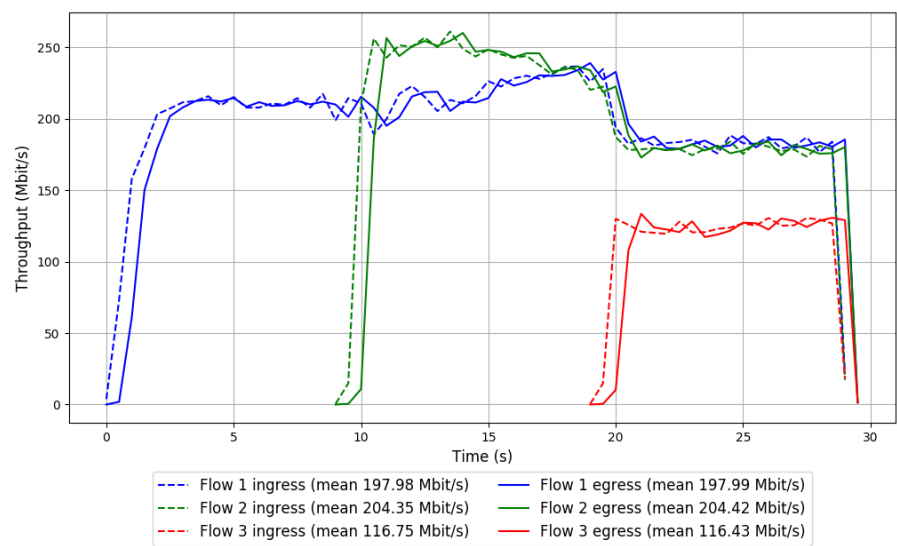


```
Run 1: Statistics of Indigo

Start at: 2018-07-12 16:53:29
End at: 2018-07-12 16:53:59
Local clock offset: 0.053 ms
Remote clock offset: -0.13 ms

# Below is generated by plot.py at 2018-07-12 22:55:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 376.02 Mbit/s
95th percentile per-packet one-way delay: 69.541 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 197.99 Mbit/s
95th percentile per-packet one-way delay: 68.203 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 204.42 Mbit/s
95th percentile per-packet one-way delay: 69.762 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 116.43 Mbit/s
95th percentile per-packet one-way delay: 71.558 ms
Loss rate: 1.34%
```

Run 1: Report of Indigo — Data Link

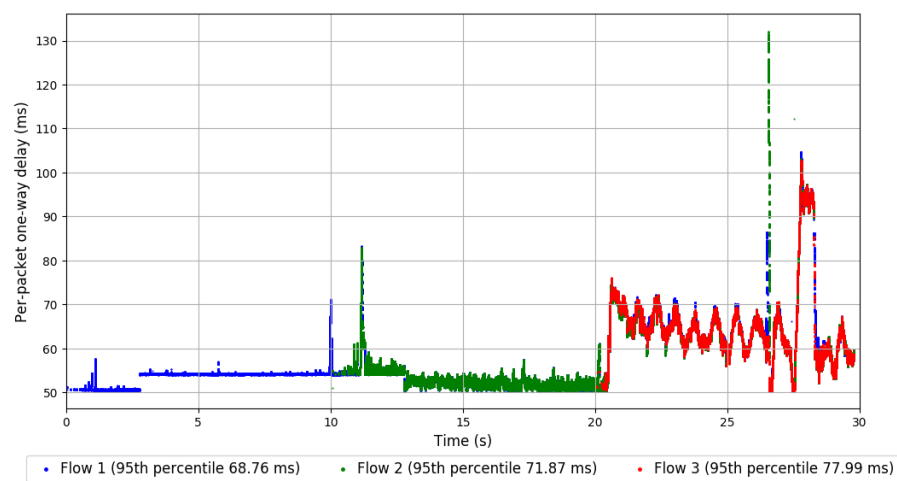
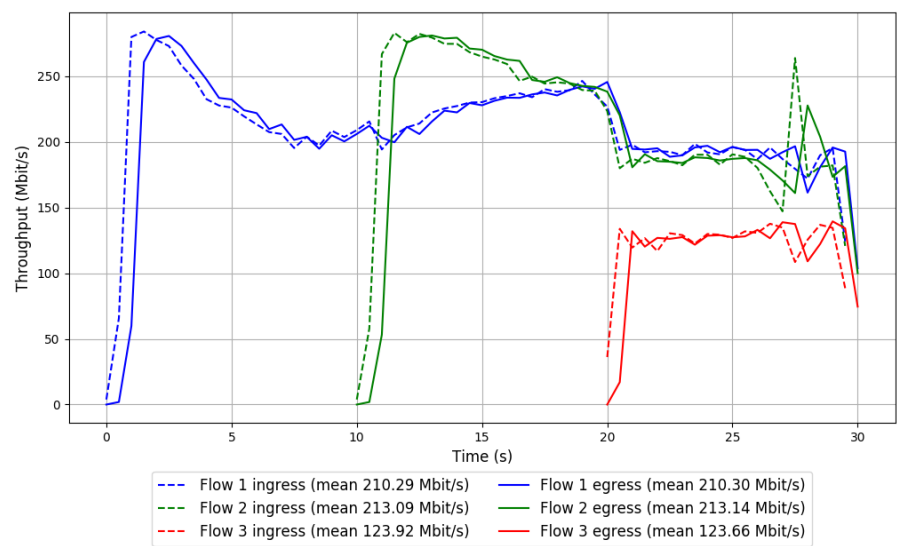


Run 2: Statistics of Indigo

Start at: 2018-07-12 17:20:37  
End at: 2018-07-12 17:21:07  
Local clock offset: 0.138 ms  
Remote clock offset: -0.498 ms

# Below is generated by plot.py at 2018-07-12 22:55:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 392.06 Mbit/s  
95th percentile per-packet one-way delay: 70.668 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 210.30 Mbit/s  
95th percentile per-packet one-way delay: 68.761 ms  
Loss rate: 0.34%  
-- Flow 2:  
Average throughput: 213.14 Mbit/s  
95th percentile per-packet one-way delay: 71.866 ms  
Loss rate: 0.50%  
-- Flow 3:  
Average throughput: 123.66 Mbit/s  
95th percentile per-packet one-way delay: 77.991 ms  
Loss rate: 1.24%

Run 2: Report of Indigo — Data Link



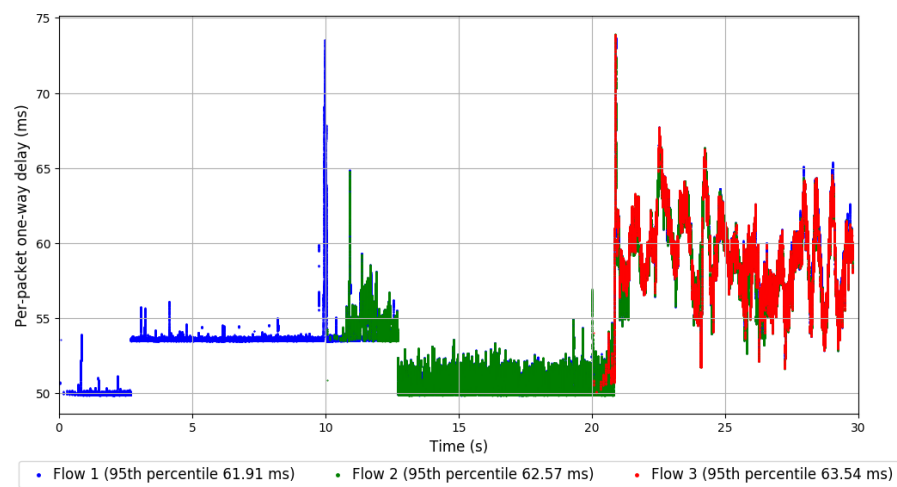
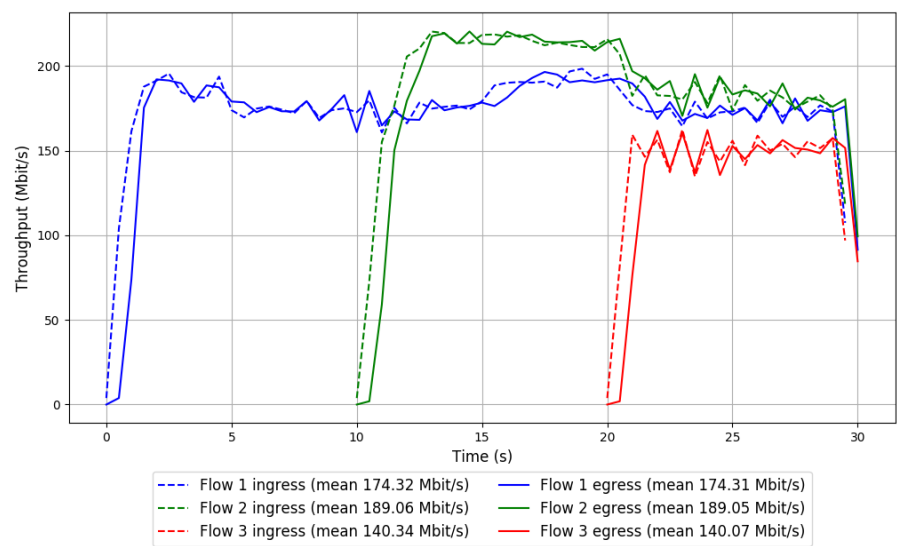
Run 3: Statistics of Indigo

Start at: 2018-07-12 17:47:37  
End at: 2018-07-12 17:48:07  
Local clock offset: -0.018 ms  
Remote clock offset: -0.105 ms

# Below is generated by plot.py at 2018-07-12 22:55:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 345.33 Mbit/s  
95th percentile per-packet one-way delay: 62.600 ms  
Loss rate: 0.53%  
-- Flow 1:  
Average throughput: 174.31 Mbit/s  
95th percentile per-packet one-way delay: 61.912 ms  
Loss rate: 0.35%  
-- Flow 2:  
Average throughput: 189.05 Mbit/s  
95th percentile per-packet one-way delay: 62.568 ms  
Loss rate: 0.52%  
-- Flow 3:  
Average throughput: 140.07 Mbit/s  
95th percentile per-packet one-way delay: 63.536 ms  
Loss rate: 1.21%



Run 3: Report of Indigo — Data Link

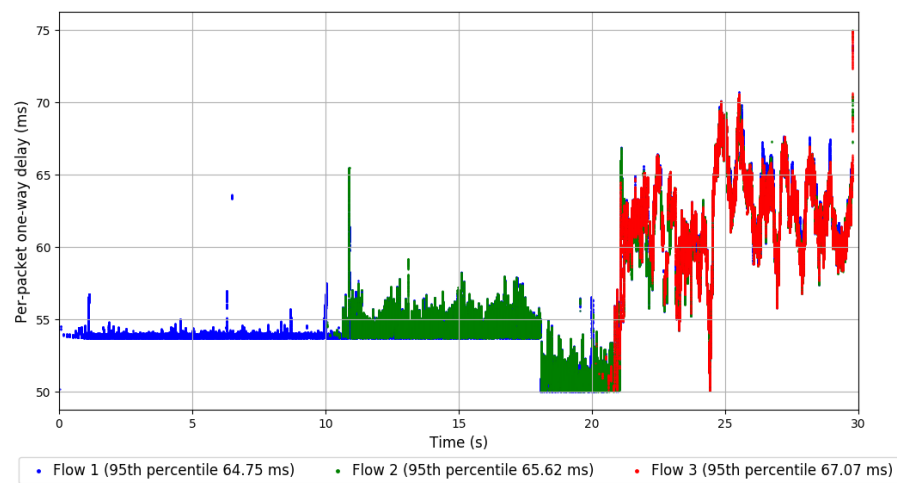
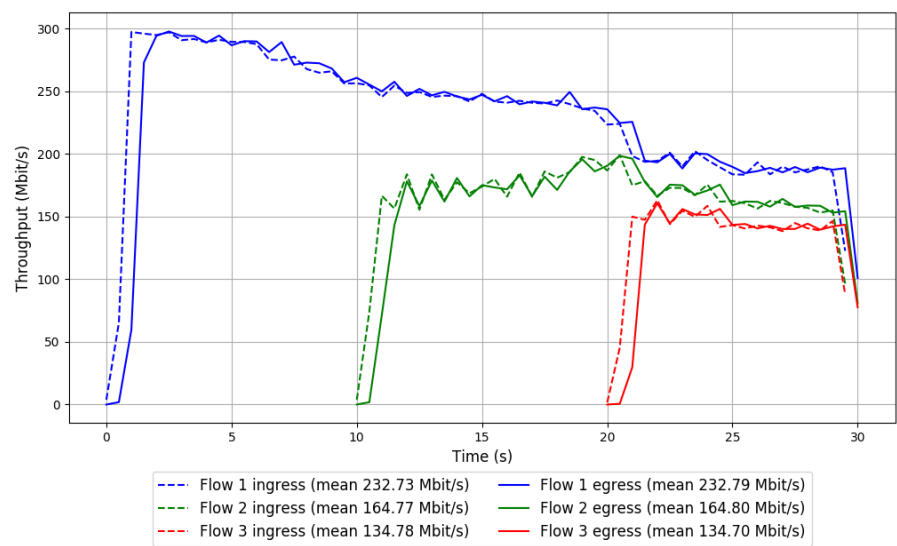


Run 4: Statistics of Indigo

Start at: 2018-07-12 18:12:31  
End at: 2018-07-12 18:13:02  
Local clock offset: 0.234 ms  
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2018-07-12 22:55:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 385.65 Mbit/s  
95th percentile per-packet one-way delay: 65.455 ms  
Loss rate: 0.47%  
-- Flow 1:  
Average throughput: 232.79 Mbit/s  
95th percentile per-packet one-way delay: 64.751 ms  
Loss rate: 0.31%  
-- Flow 2:  
Average throughput: 164.80 Mbit/s  
95th percentile per-packet one-way delay: 65.618 ms  
Loss rate: 0.53%  
-- Flow 3:  
Average throughput: 134.70 Mbit/s  
95th percentile per-packet one-way delay: 67.067 ms  
Loss rate: 1.12%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-07-12 18:37:31

End at: 2018-07-12 18:38:01

Local clock offset: 0.003 ms

Remote clock offset: 0.022 ms

# Below is generated by plot.py at 2018-07-12 22:55:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 389.60 Mbit/s

95th percentile per-packet one-way delay: 63.142 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 215.27 Mbit/s

95th percentile per-packet one-way delay: 62.685 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 185.28 Mbit/s

95th percentile per-packet one-way delay: 63.152 ms

Loss rate: 0.56%

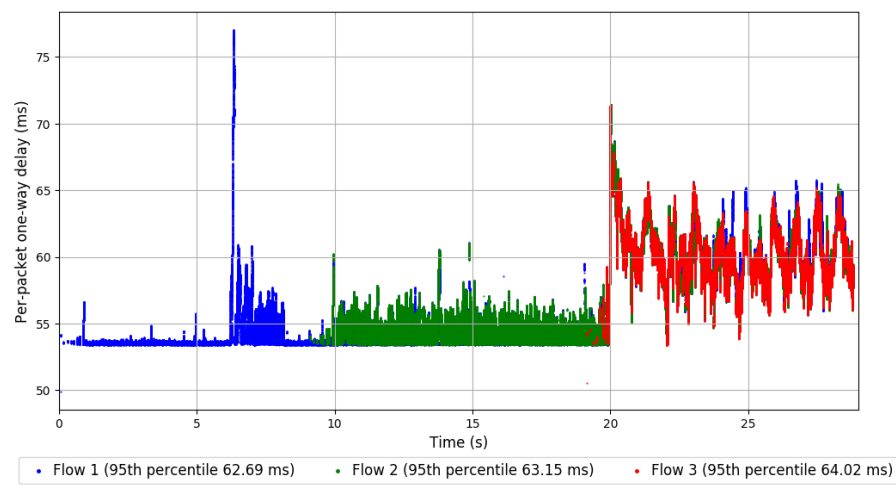
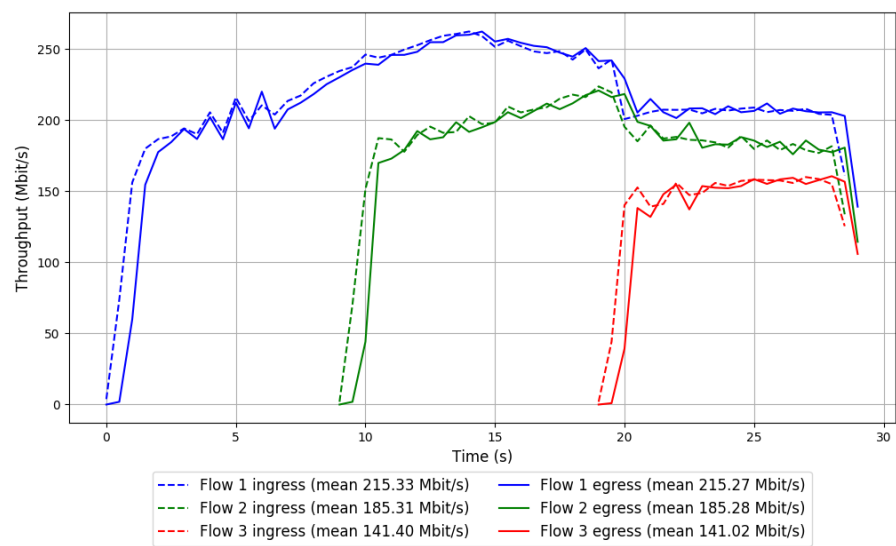
-- Flow 3:

Average throughput: 141.02 Mbit/s

95th percentile per-packet one-way delay: 64.018 ms

Loss rate: 1.33%

Run 5: Report of Indigo — Data Link

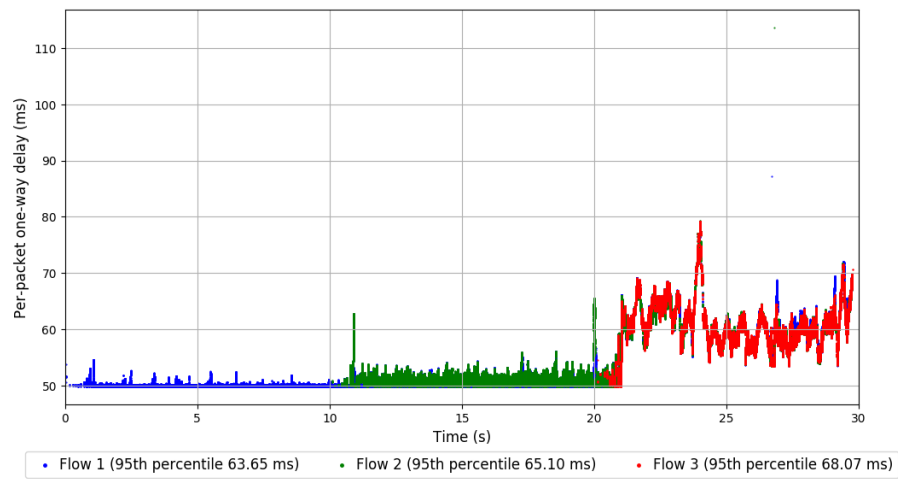
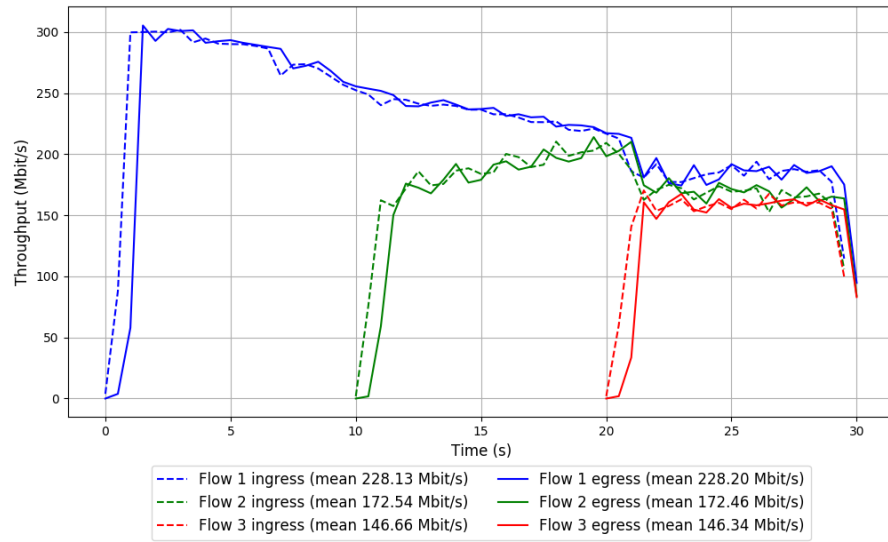


Run 6: Statistics of Indigo

Start at: 2018-07-12 19:03:06  
End at: 2018-07-12 19:03:36  
Local clock offset: 0.052 ms  
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2018-07-12 22:55:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 389.72 Mbit/s  
95th percentile per-packet one-way delay: 65.099 ms  
Loss rate: 0.50%  
-- Flow 1:  
Average throughput: 228.20 Mbit/s  
95th percentile per-packet one-way delay: 63.645 ms  
Loss rate: 0.31%  
-- Flow 2:  
Average throughput: 172.46 Mbit/s  
95th percentile per-packet one-way delay: 65.100 ms  
Loss rate: 0.57%  
-- Flow 3:  
Average throughput: 146.34 Mbit/s  
95th percentile per-packet one-way delay: 68.069 ms  
Loss rate: 1.25%

## Run 6: Report of Indigo — Data Link



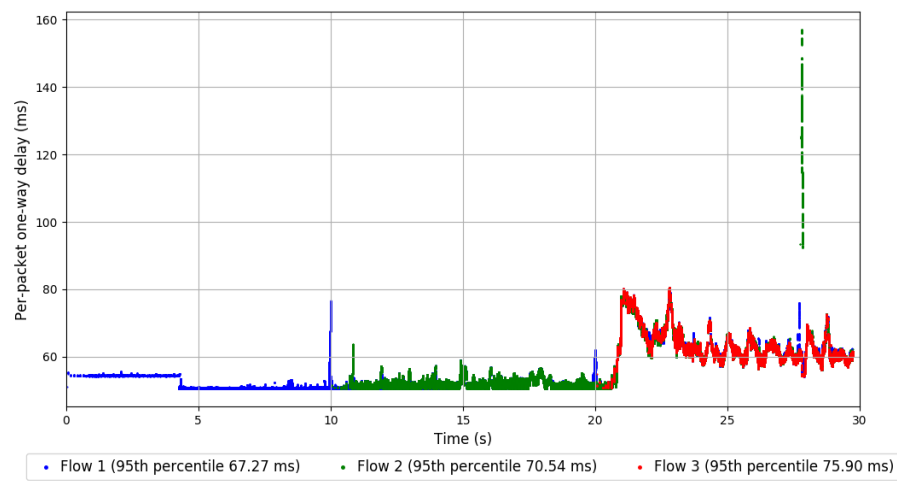
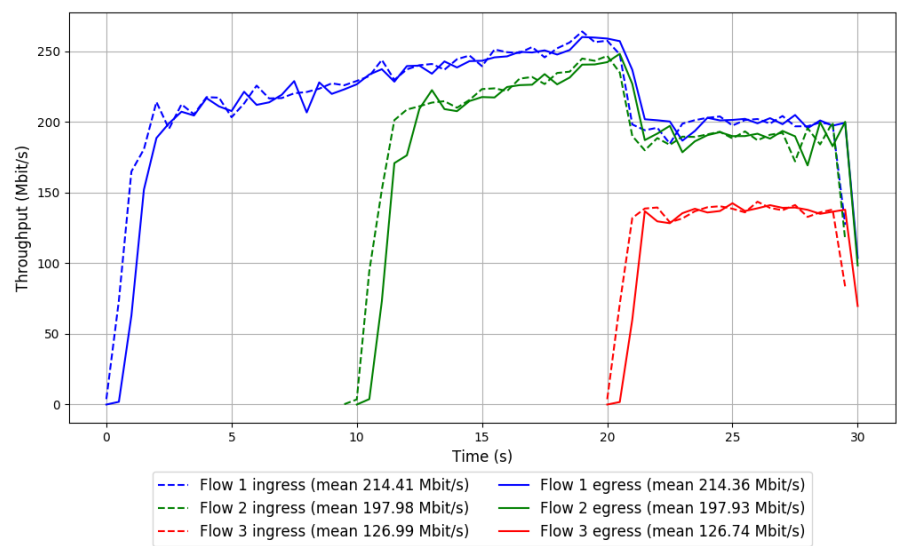
Run 7: Statistics of Indigo

Start at: 2018-07-12 19:28:15  
End at: 2018-07-12 19:28:45  
Local clock offset: 0.472 ms  
Remote clock offset: -0.231 ms

# Below is generated by plot.py at 2018-07-12 22:55:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 387.12 Mbit/s  
95th percentile per-packet one-way delay: 69.628 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 214.36 Mbit/s  
95th percentile per-packet one-way delay: 67.271 ms  
Loss rate: 0.36%  
-- Flow 2:  
Average throughput: 197.93 Mbit/s  
95th percentile per-packet one-way delay: 70.541 ms  
Loss rate: 0.53%  
-- Flow 3:  
Average throughput: 126.74 Mbit/s  
95th percentile per-packet one-way delay: 75.898 ms  
Loss rate: 1.22%



Run 7: Report of Indigo — Data Link

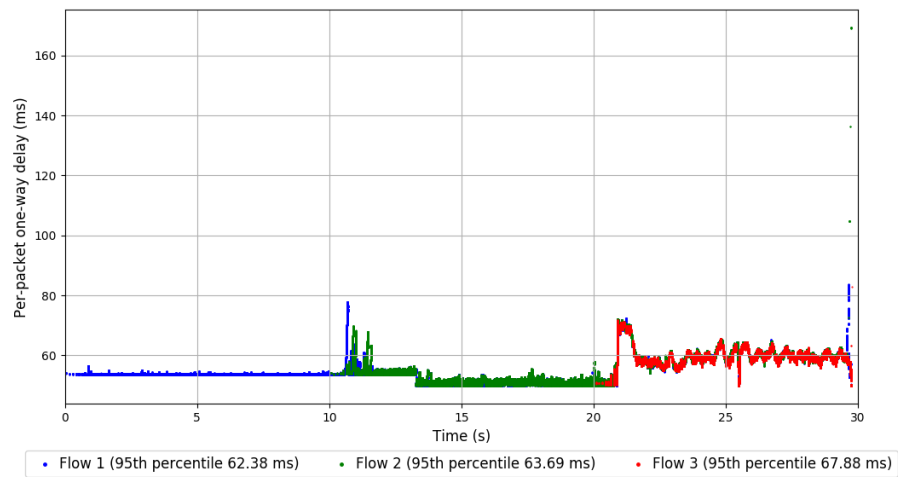
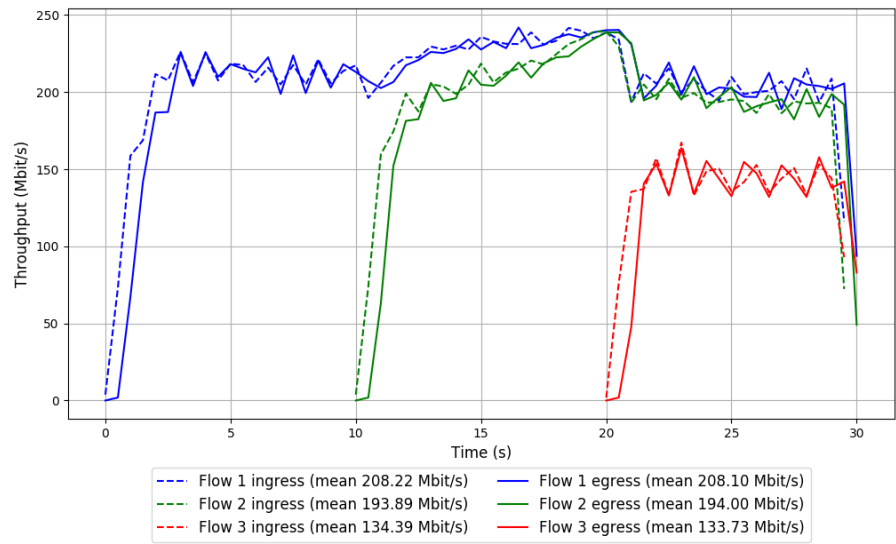


Run 8: Statistics of Indigo

Start at: 2018-07-12 19:53:56  
End at: 2018-07-12 19:54:26  
Local clock offset: -0.065 ms  
Remote clock offset: -0.185 ms

# Below is generated by plot.py at 2018-07-12 22:55:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 380.10 Mbit/s  
95th percentile per-packet one-way delay: 63.283 ms  
Loss rate: 0.53%  
-- Flow 1:  
Average throughput: 208.10 Mbit/s  
95th percentile per-packet one-way delay: 62.378 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 194.00 Mbit/s  
95th percentile per-packet one-way delay: 63.691 ms  
Loss rate: 0.54%  
-- Flow 3:  
Average throughput: 133.73 Mbit/s  
95th percentile per-packet one-way delay: 67.883 ms  
Loss rate: 1.27%

## Run 8: Report of Indigo — Data Link

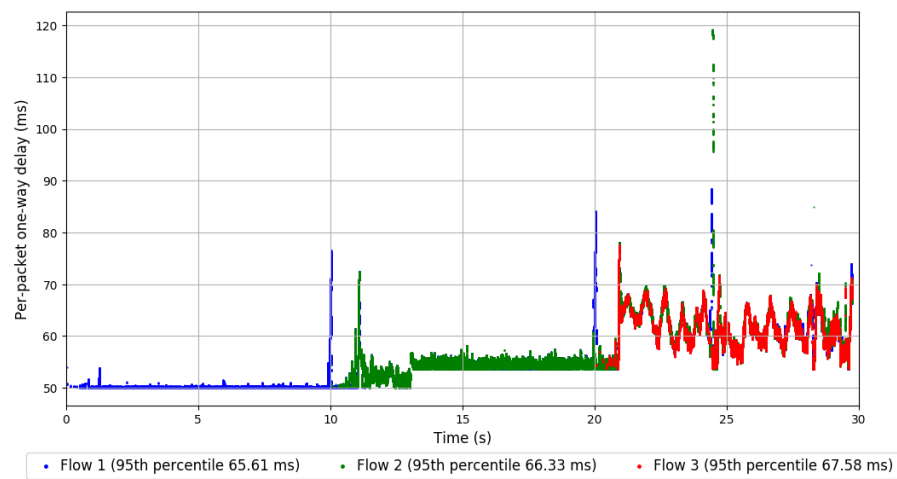
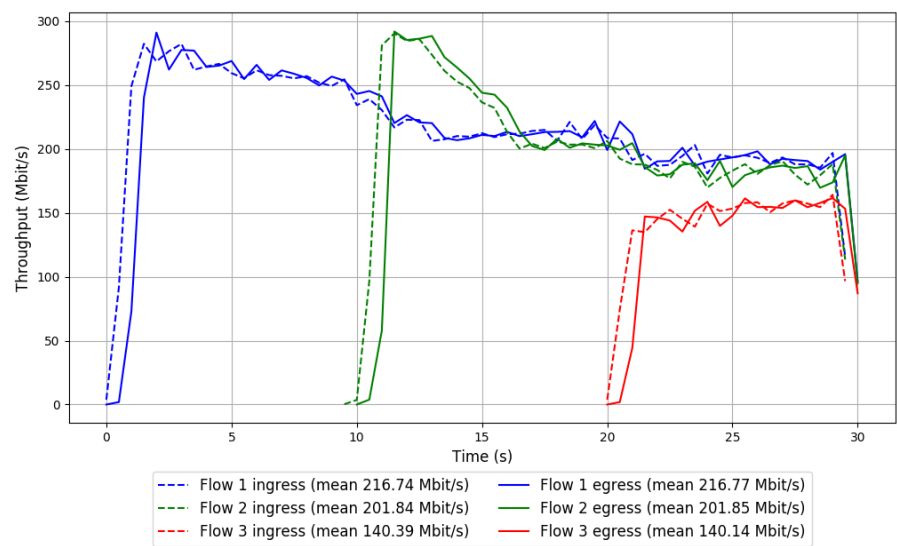


Run 9: Statistics of Indigo

Start at: 2018-07-12 20:18:57  
End at: 2018-07-12 20:19:27  
Local clock offset: 0.144 ms  
Remote clock offset: -0.135 ms

# Below is generated by plot.py at 2018-07-12 22:55:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 396.37 Mbit/s  
95th percentile per-packet one-way delay: 66.278 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 216.77 Mbit/s  
95th percentile per-packet one-way delay: 65.611 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 201.85 Mbit/s  
95th percentile per-packet one-way delay: 66.331 ms  
Loss rate: 0.49%  
-- Flow 3:  
Average throughput: 140.14 Mbit/s  
95th percentile per-packet one-way delay: 67.578 ms  
Loss rate: 1.26%

Run 9: Report of Indigo — Data Link

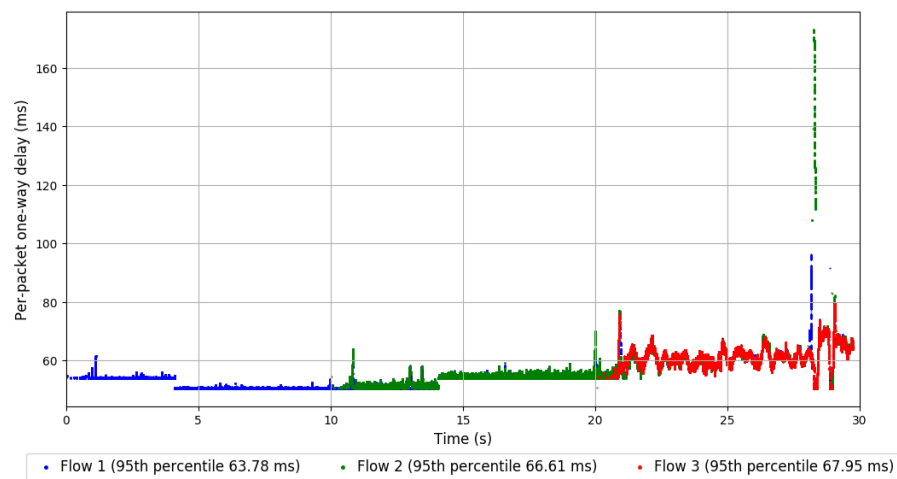
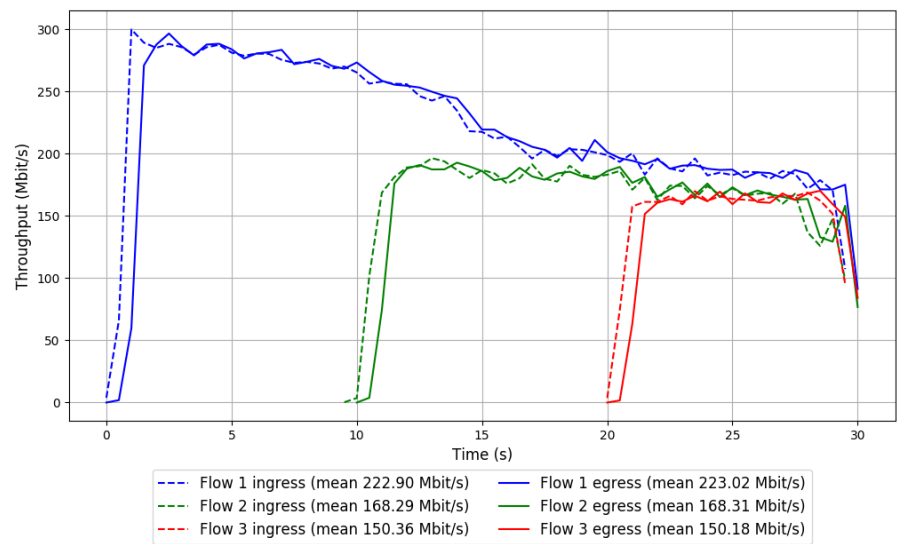


Run 10: Statistics of Indigo

Start at: 2018-07-12 20:44:25  
End at: 2018-07-12 20:44:55  
Local clock offset: 0.16 ms  
Remote clock offset: -0.344 ms

# Below is generated by plot.py at 2018-07-12 22:55:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 383.62 Mbit/s  
95th percentile per-packet one-way delay: 65.565 ms  
Loss rate: 0.48%  
-- Flow 1:  
Average throughput: 223.02 Mbit/s  
95th percentile per-packet one-way delay: 63.776 ms  
Loss rate: 0.31%  
-- Flow 2:  
Average throughput: 168.31 Mbit/s  
95th percentile per-packet one-way delay: 66.609 ms  
Loss rate: 0.52%  
-- Flow 3:  
Average throughput: 150.18 Mbit/s  
95th percentile per-packet one-way delay: 67.953 ms  
Loss rate: 1.18%

Run 10: Report of Indigo — Data Link



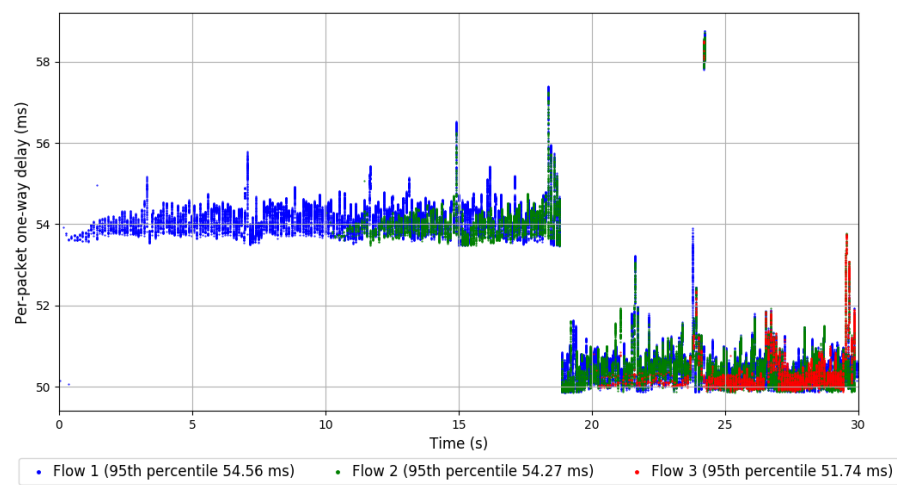
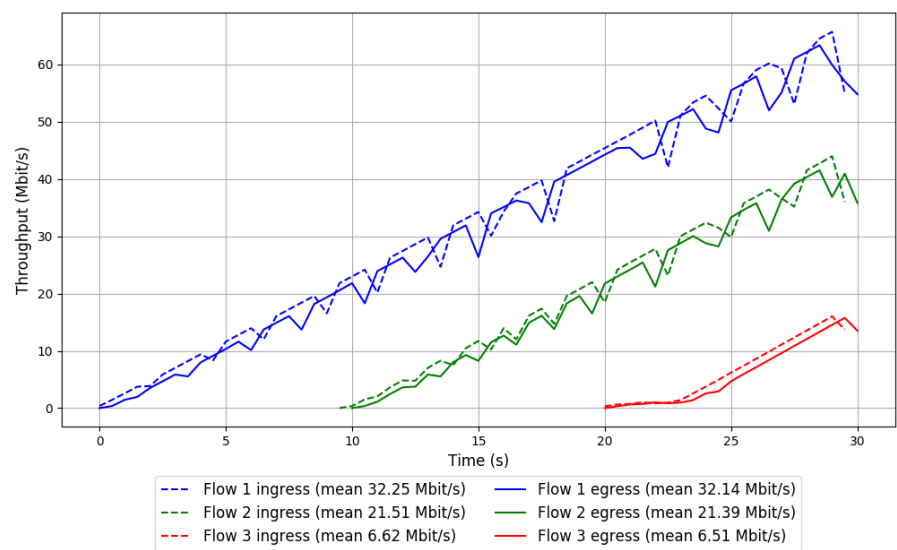
Run 1: Statistics of LEDBAT

Start at: 2018-07-12 16:40:31  
End at: 2018-07-12 16:41:01  
Local clock offset: -0.026 ms  
Remote clock offset: -0.131 ms

# Below is generated by plot.py at 2018-07-12 22:55:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 48.45 Mbit/s  
95th percentile per-packet one-way delay: 54.483 ms  
Loss rate: 0.89%  
-- Flow 1:  
Average throughput: 32.14 Mbit/s  
95th percentile per-packet one-way delay: 54.561 ms  
Loss rate: 0.69%  
-- Flow 2:  
Average throughput: 21.39 Mbit/s  
95th percentile per-packet one-way delay: 54.266 ms  
Loss rate: 1.06%  
-- Flow 3:  
Average throughput: 6.51 Mbit/s  
95th percentile per-packet one-way delay: 51.740 ms  
Loss rate: 2.67%



Run 1: Report of LEDBAT — Data Link

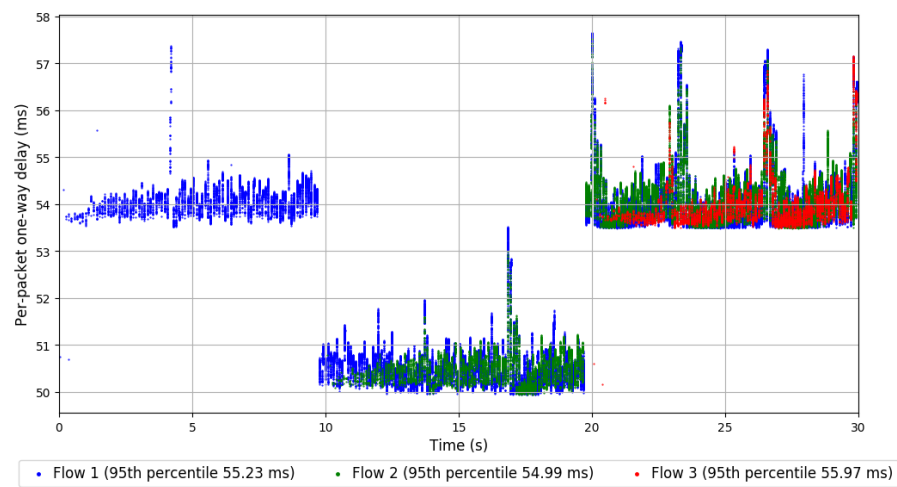
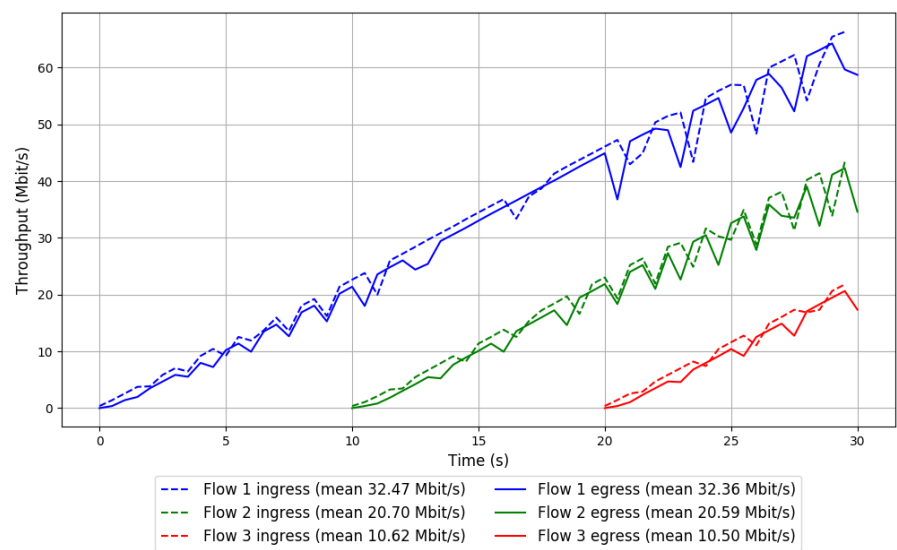


Run 2: Statistics of LEDBAT

Start at: 2018-07-12 17:05:20  
End at: 2018-07-12 17:05:50  
Local clock offset: 0.04 ms  
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2018-07-12 22:55:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 49.50 Mbit/s  
95th percentile per-packet one-way delay: 55.135 ms  
Loss rate: 0.89%  
-- Flow 1:  
Average throughput: 32.36 Mbit/s  
95th percentile per-packet one-way delay: 55.234 ms  
Loss rate: 0.69%  
-- Flow 2:  
Average throughput: 20.59 Mbit/s  
95th percentile per-packet one-way delay: 54.995 ms  
Loss rate: 1.06%  
-- Flow 3:  
Average throughput: 10.50 Mbit/s  
95th percentile per-packet one-way delay: 55.967 ms  
Loss rate: 2.11%

Run 2: Report of LEDBAT — Data Link

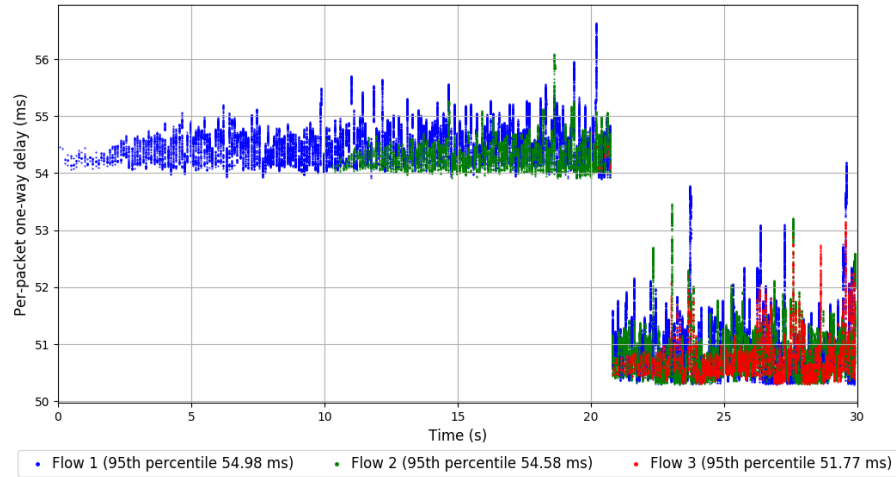
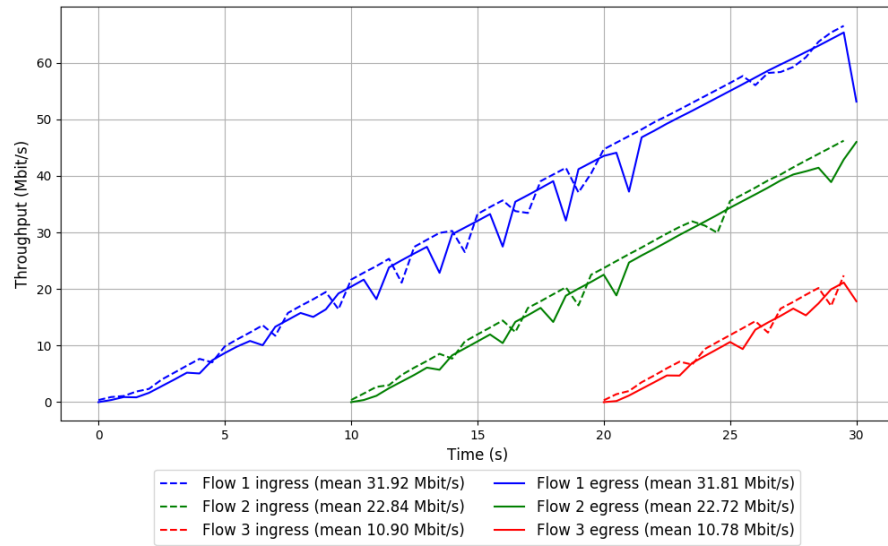


Run 3: Statistics of LEDBAT

Start at: 2018-07-12 17:33:59  
End at: 2018-07-12 17:34:29  
Local clock offset: 0.01 ms  
Remote clock offset: -0.501 ms

# Below is generated by plot.py at 2018-07-12 22:55:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 50.41 Mbit/s  
95th percentile per-packet one-way delay: 54.882 ms  
Loss rate: 0.90%  
-- Flow 1:  
Average throughput: 31.81 Mbit/s  
95th percentile per-packet one-way delay: 54.977 ms  
Loss rate: 0.70%  
-- Flow 2:  
Average throughput: 22.72 Mbit/s  
95th percentile per-packet one-way delay: 54.582 ms  
Loss rate: 1.02%  
-- Flow 3:  
Average throughput: 10.78 Mbit/s  
95th percentile per-packet one-way delay: 51.773 ms  
Loss rate: 2.12%

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

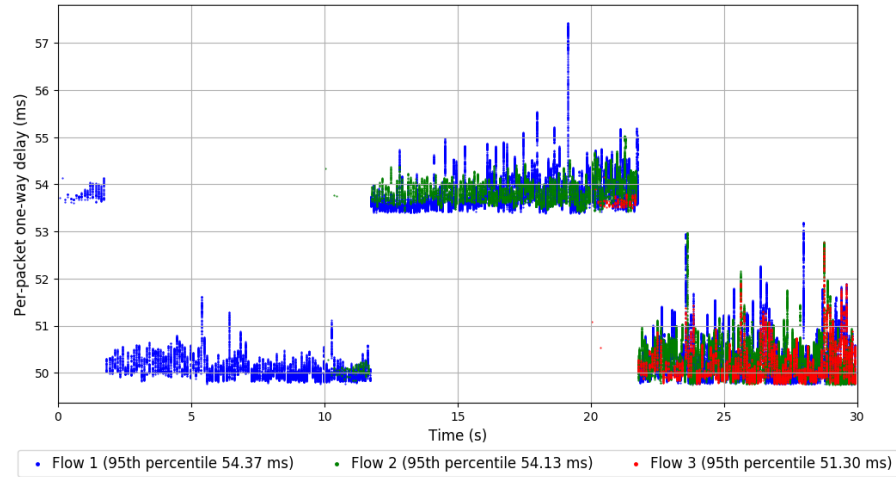
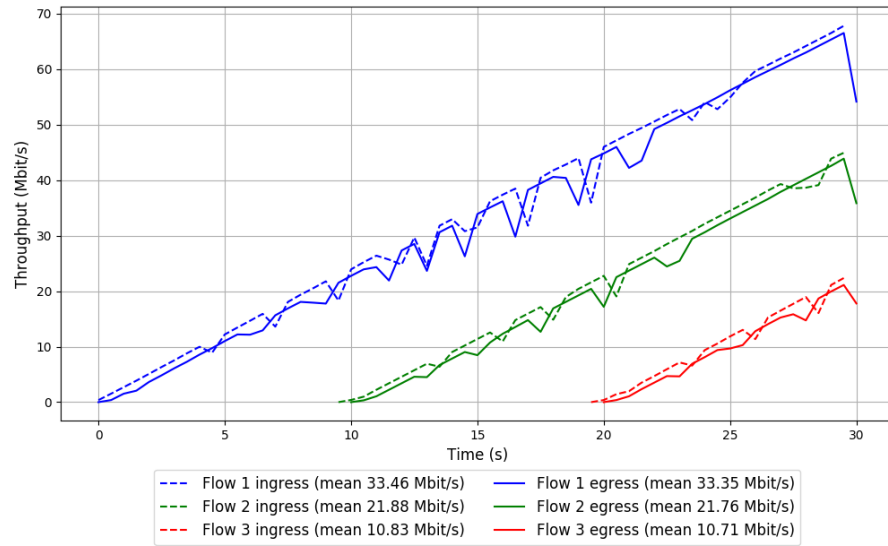


Run 4: Statistics of LEDBAT

Start at: 2018-07-12 17:59:48  
End at: 2018-07-12 18:00:18  
Local clock offset: -0.053 ms  
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2018-07-12 22:55:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 51.33 Mbit/s  
95th percentile per-packet one-way delay: 54.259 ms  
Loss rate: 0.88%  
-- Flow 1:  
Average throughput: 33.35 Mbit/s  
95th percentile per-packet one-way delay: 54.369 ms  
Loss rate: 0.68%  
-- Flow 2:  
Average throughput: 21.76 Mbit/s  
95th percentile per-packet one-way delay: 54.128 ms  
Loss rate: 1.04%  
-- Flow 3:  
Average throughput: 10.71 Mbit/s  
95th percentile per-packet one-way delay: 51.297 ms  
Loss rate: 2.12%

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



Run 5: Statistics of LEDBAT

Start at: 2018-07-12 18:24:31

End at: 2018-07-12 18:25:01

Local clock offset: 0.075 ms

Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2018-07-12 22:55:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 50.36 Mbit/s

95th percentile per-packet one-way delay: 53.870 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 32.68 Mbit/s

95th percentile per-packet one-way delay: 54.100 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 21.29 Mbit/s

95th percentile per-packet one-way delay: 51.495 ms

Loss rate: 1.06%

-- Flow 3:

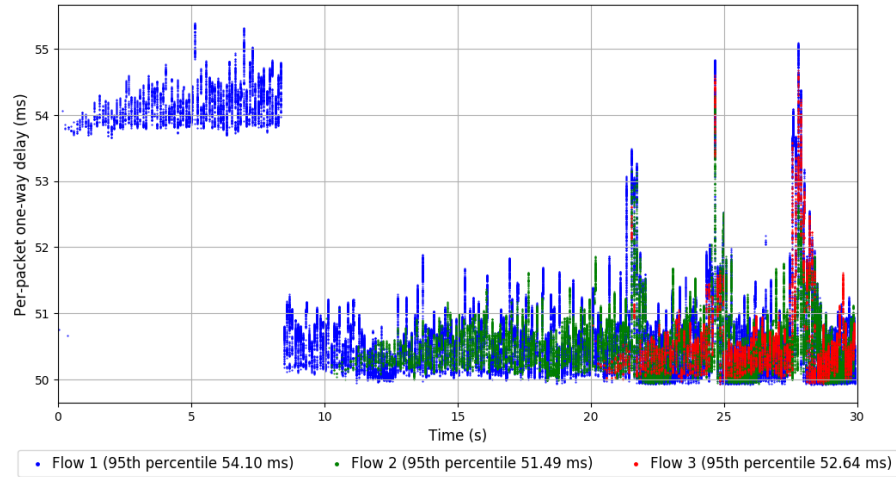
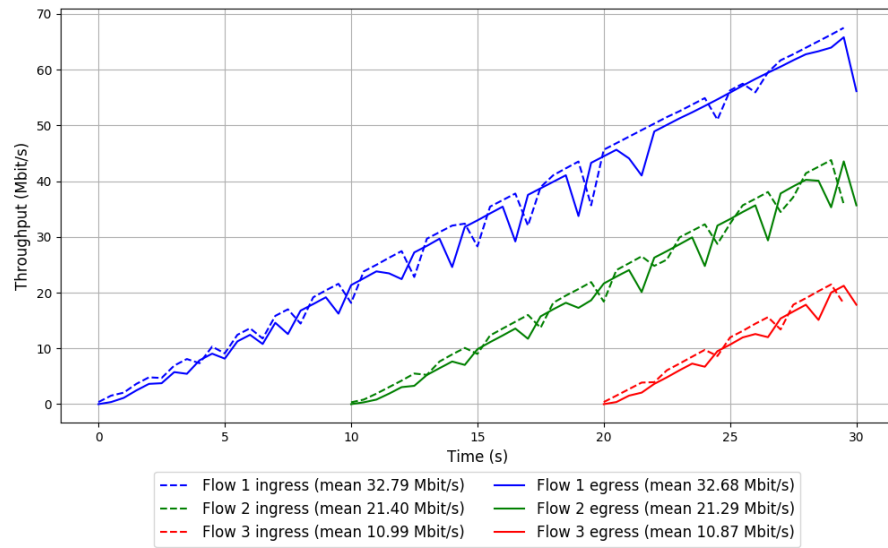
Average throughput: 10.87 Mbit/s

95th percentile per-packet one-way delay: 52.637 ms

Loss rate: 2.11%



## Run 5: Report of LEDBAT — Data Link

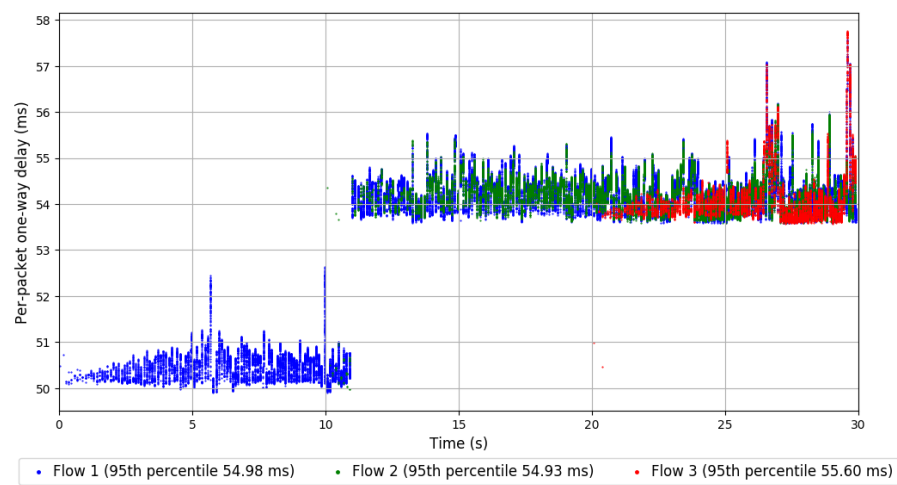
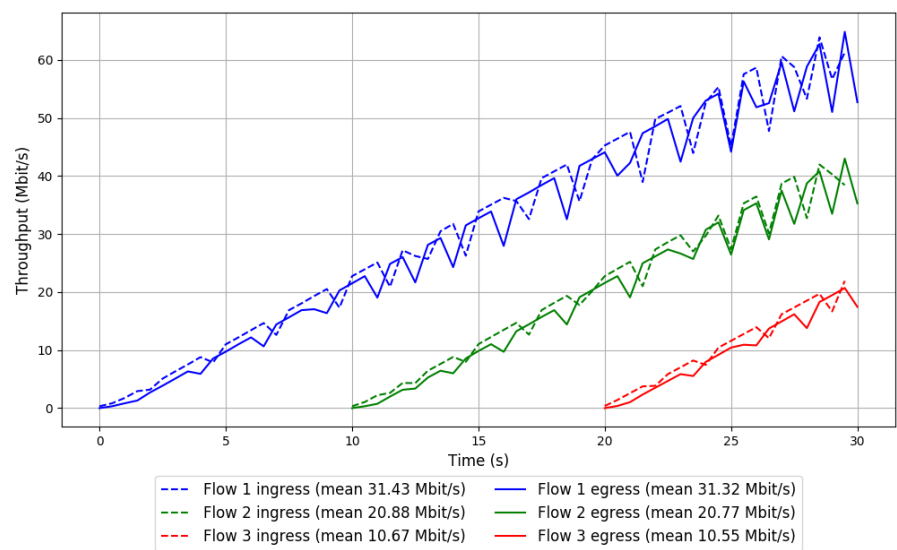


Run 6: Statistics of LEDBAT

Start at: 2018-07-12 18:49:39  
End at: 2018-07-12 18:50:09  
Local clock offset: 0.025 ms  
Remote clock offset: -0.133 ms

# Below is generated by plot.py at 2018-07-12 22:55:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 48.58 Mbit/s  
95th percentile per-packet one-way delay: 54.996 ms  
Loss rate: 0.91%  
-- Flow 1:  
Average throughput: 31.32 Mbit/s  
95th percentile per-packet one-way delay: 54.980 ms  
Loss rate: 0.71%  
-- Flow 2:  
Average throughput: 20.77 Mbit/s  
95th percentile per-packet one-way delay: 54.934 ms  
Loss rate: 1.07%  
-- Flow 3:  
Average throughput: 10.55 Mbit/s  
95th percentile per-packet one-way delay: 55.604 ms  
Loss rate: 2.12%

Run 6: Report of LEDBAT — Data Link

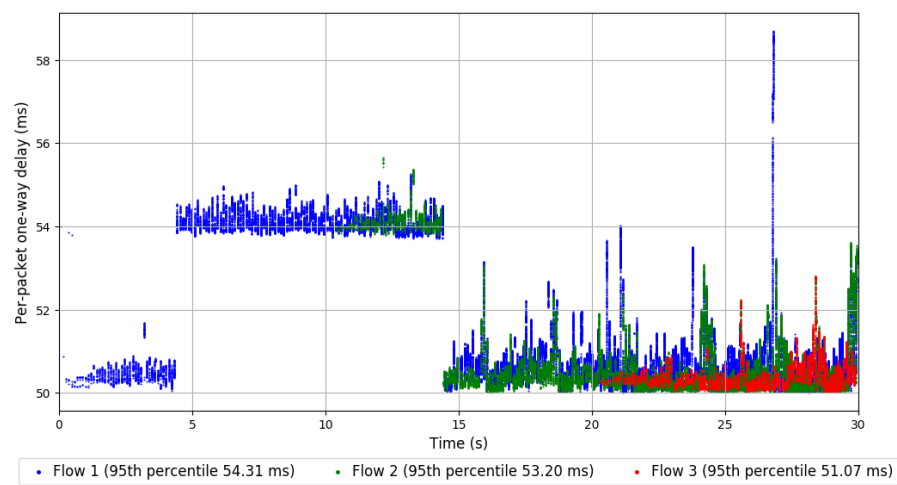
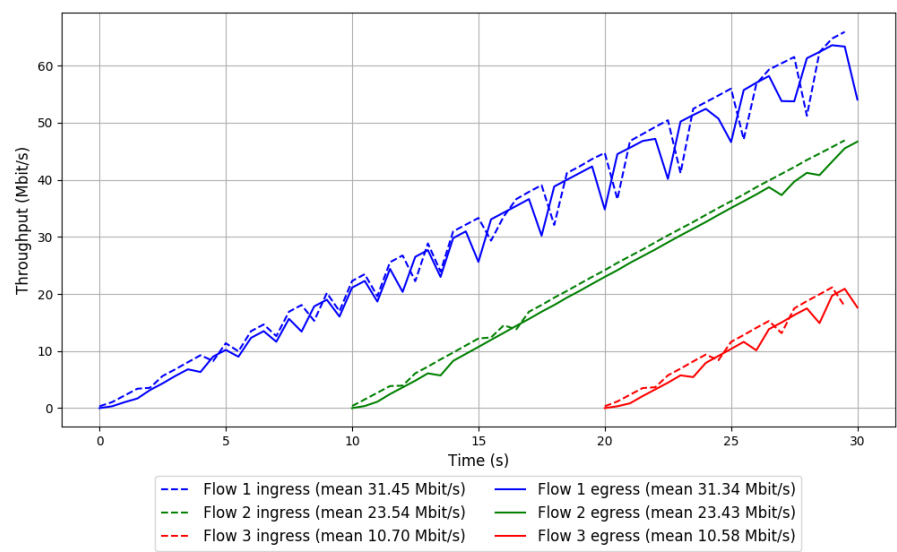


Run 7: Statistics of LEDBAT

Start at: 2018-07-12 19:15:05  
End at: 2018-07-12 19:15:35  
Local clock offset: 0.013 ms  
Remote clock offset: -0.204 ms

# Below is generated by plot.py at 2018-07-12 22:55:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 50.38 Mbit/s  
95th percentile per-packet one-way delay: 54.186 ms  
Loss rate: 0.90%  
-- Flow 1:  
Average throughput: 31.34 Mbit/s  
95th percentile per-packet one-way delay: 54.308 ms  
Loss rate: 0.70%  
-- Flow 2:  
Average throughput: 23.43 Mbit/s  
95th percentile per-packet one-way delay: 53.197 ms  
Loss rate: 1.01%  
-- Flow 3:  
Average throughput: 10.58 Mbit/s  
95th percentile per-packet one-way delay: 51.072 ms  
Loss rate: 2.14%

Run 7: Report of LEDBAT — Data Link

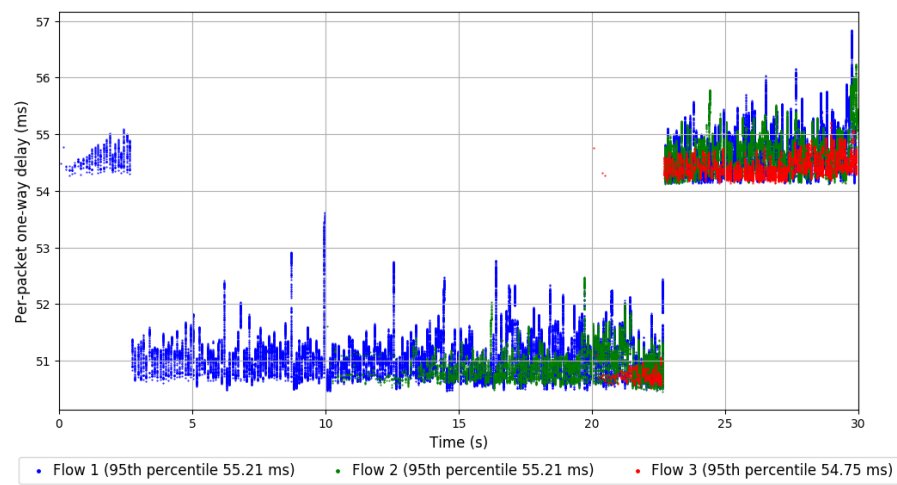
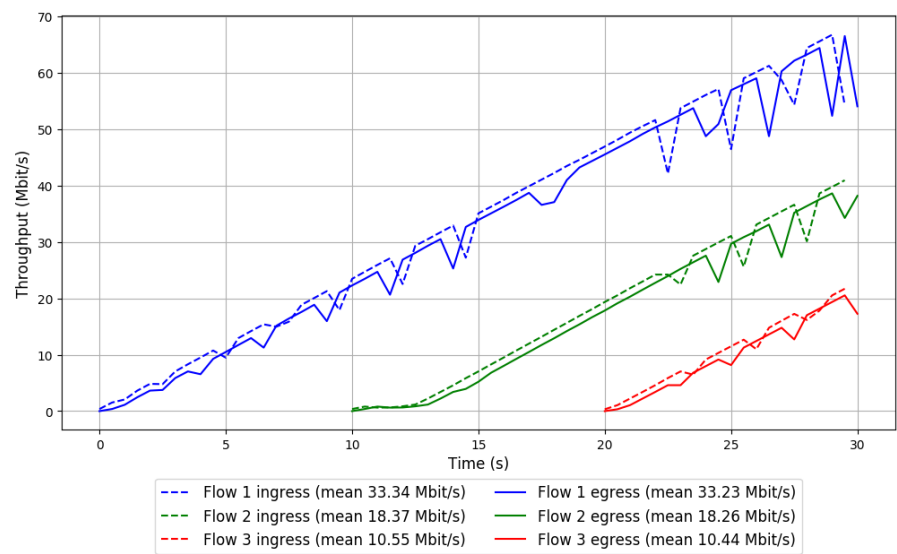


Run 8: Statistics of LEDBAT

Start at: 2018-07-12 19:40:27  
End at: 2018-07-12 19:40:57  
Local clock offset: 0.608 ms  
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2018-07-12 22:55:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 48.73 Mbit/s  
95th percentile per-packet one-way delay: 55.189 ms  
Loss rate: 0.90%  
-- Flow 1:  
Average throughput: 33.23 Mbit/s  
95th percentile per-packet one-way delay: 55.214 ms  
Loss rate: 0.68%  
-- Flow 2:  
Average throughput: 18.26 Mbit/s  
95th percentile per-packet one-way delay: 55.213 ms  
Loss rate: 1.13%  
-- Flow 3:  
Average throughput: 10.44 Mbit/s  
95th percentile per-packet one-way delay: 54.753 ms  
Loss rate: 2.11%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-12 20:05:51

End at: 2018-07-12 20:06:21

Local clock offset: -0.059 ms

Remote clock offset: 0.013 ms

# Below is generated by plot.py at 2018-07-12 22:55:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 50.11 Mbit/s

95th percentile per-packet one-way delay: 54.688 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 33.21 Mbit/s

95th percentile per-packet one-way delay: 54.794 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 21.60 Mbit/s

95th percentile per-packet one-way delay: 54.559 ms

Loss rate: 1.04%

-- Flow 3:

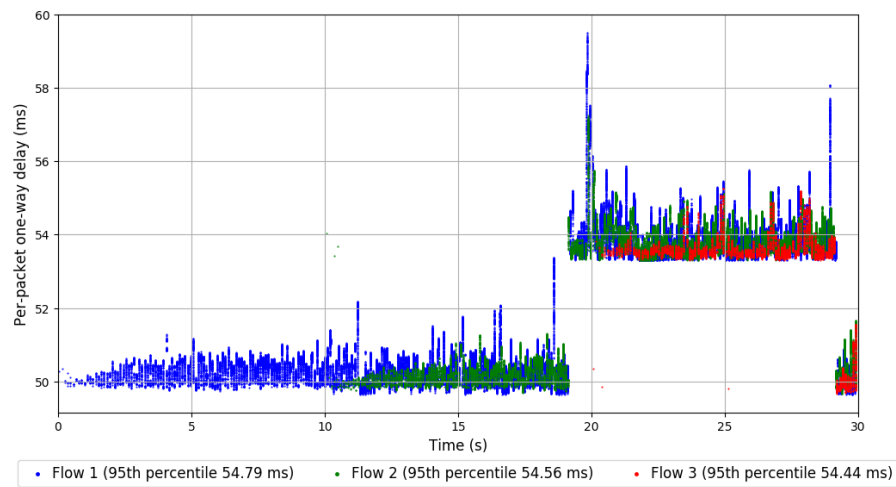
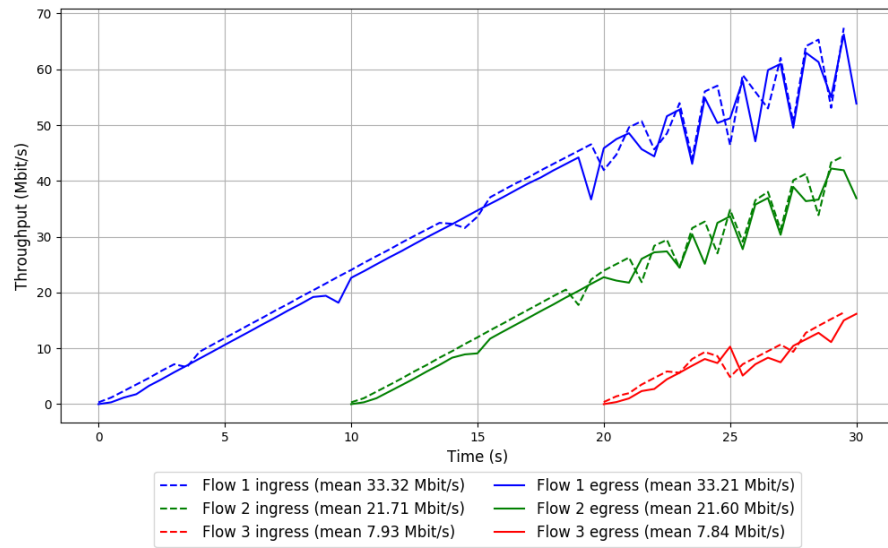
Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 54.444 ms

Loss rate: 2.15%



# Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-12 20:31:04

End at: 2018-07-12 20:31:34

Local clock offset: 0.124 ms

Remote clock offset: 0.129 ms

# Below is generated by plot.py at 2018-07-12 22:55:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 47.85 Mbit/s

95th percentile per-packet one-way delay: 54.461 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 31.08 Mbit/s

95th percentile per-packet one-way delay: 54.435 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 20.39 Mbit/s

95th percentile per-packet one-way delay: 54.506 ms

Loss rate: 1.07%

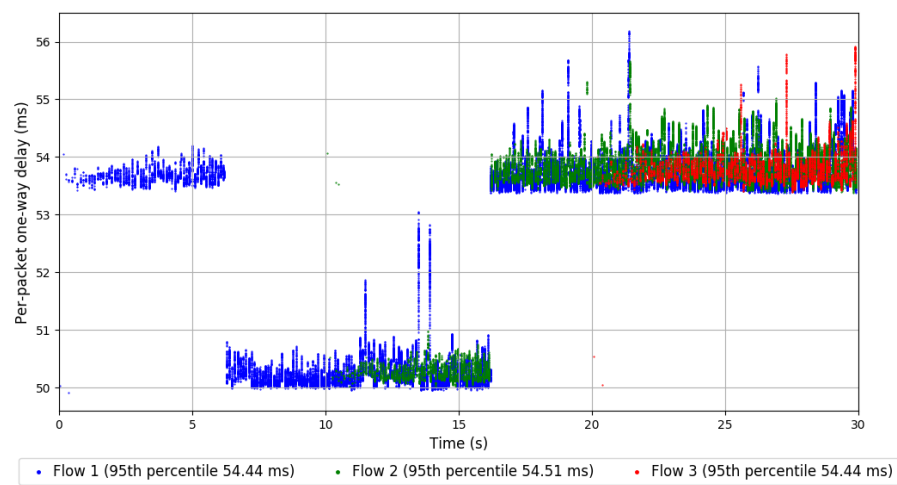
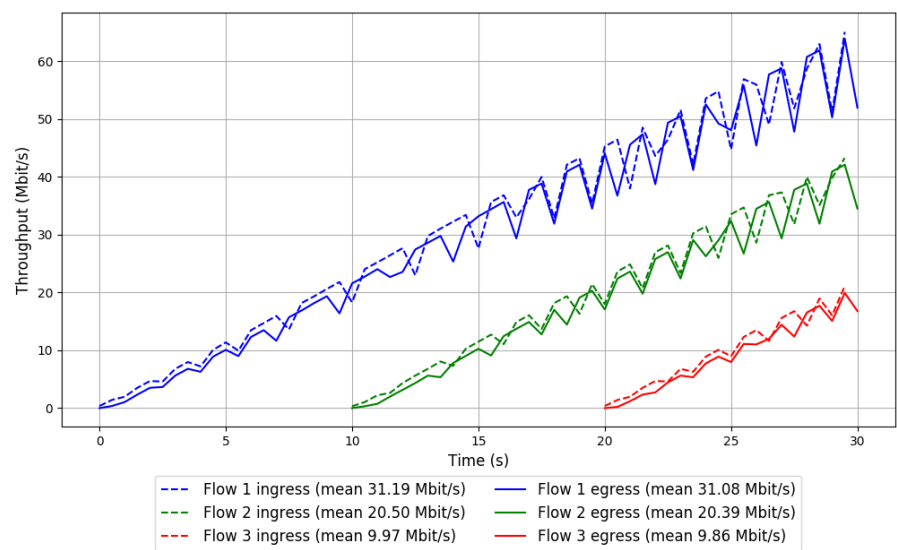
-- Flow 3:

Average throughput: 9.86 Mbit/s

95th percentile per-packet one-way delay: 54.440 ms

Loss rate: 2.18%

Run 10: Report of LEDBAT — Data Link

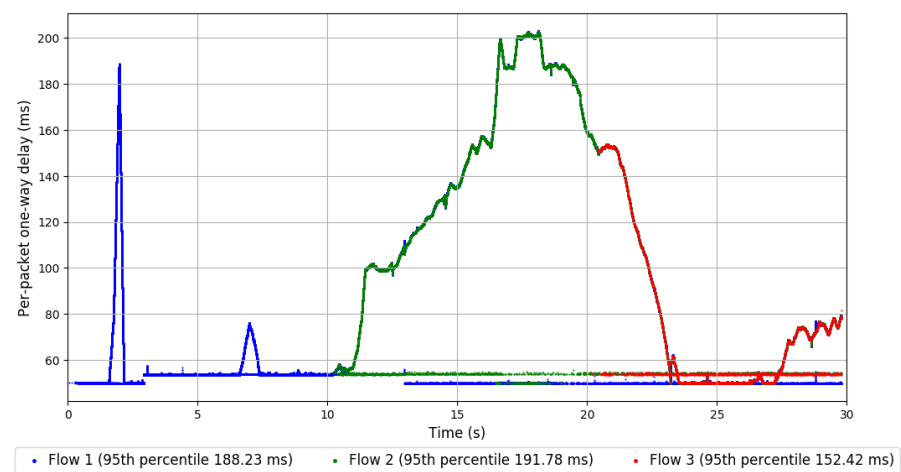
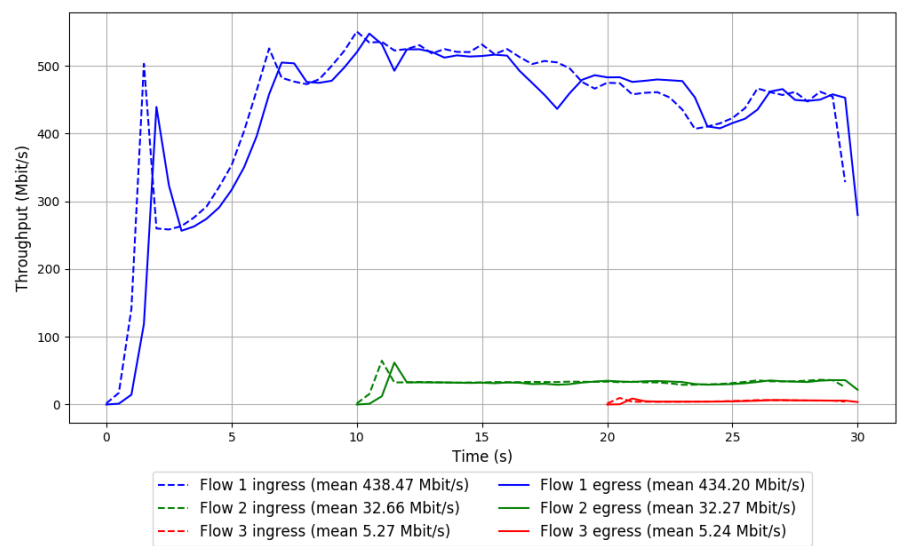


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-07-12 16:56:27
End at: 2018-07-12 16:56:57
Local clock offset: -0.072 ms
Remote clock offset: -0.196 ms

# Below is generated by plot.py at 2018-07-12 23:00:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 457.27 Mbit/s
95th percentile per-packet one-way delay: 188.257 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 434.20 Mbit/s
95th percentile per-packet one-way delay: 188.232 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 32.27 Mbit/s
95th percentile per-packet one-way delay: 191.785 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 5.24 Mbit/s
95th percentile per-packet one-way delay: 152.416 ms
Loss rate: 1.51%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-07-12 17:23:33

End at: 2018-07-12 17:24:03

Local clock offset: 0.183 ms

Remote clock offset: 1.205 ms

# Below is generated by plot.py at 2018-07-12 23:01:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 508.98 Mbit/s

95th percentile per-packet one-way delay: 193.317 ms

Loss rate: 3.72%

-- Flow 1:

Average throughput: 503.04 Mbit/s

95th percentile per-packet one-way delay: 193.314 ms

Loss rate: 3.69%

-- Flow 2:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 193.716 ms

Loss rate: 5.93%

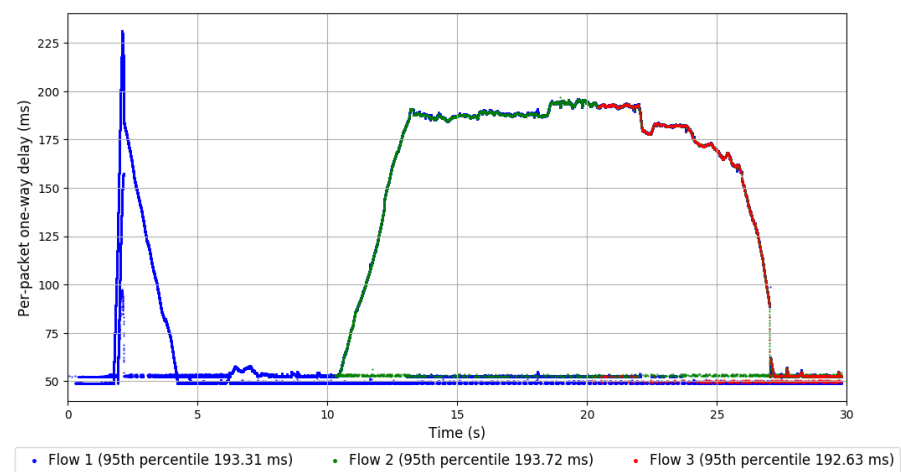
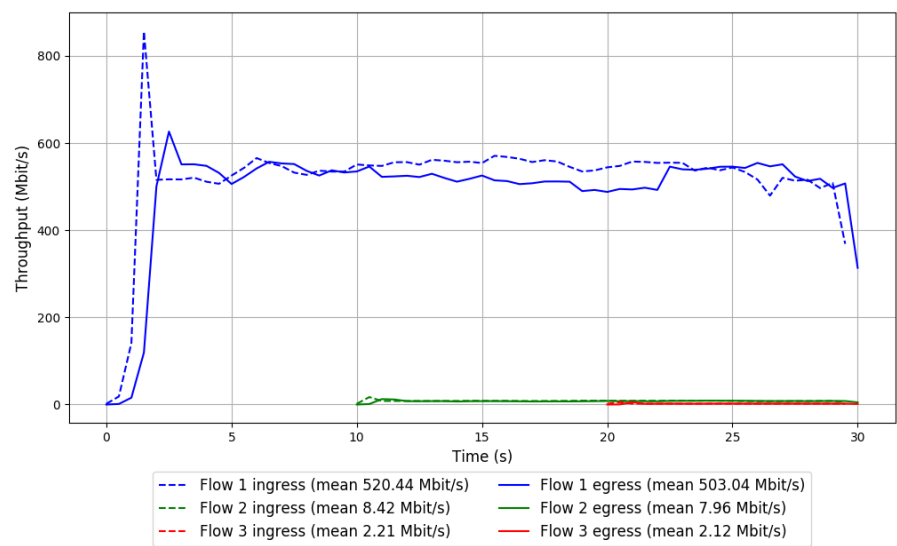
-- Flow 3:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 192.634 ms

Loss rate: 5.10%

Run 2: Report of PCC-Allegro — Data Link



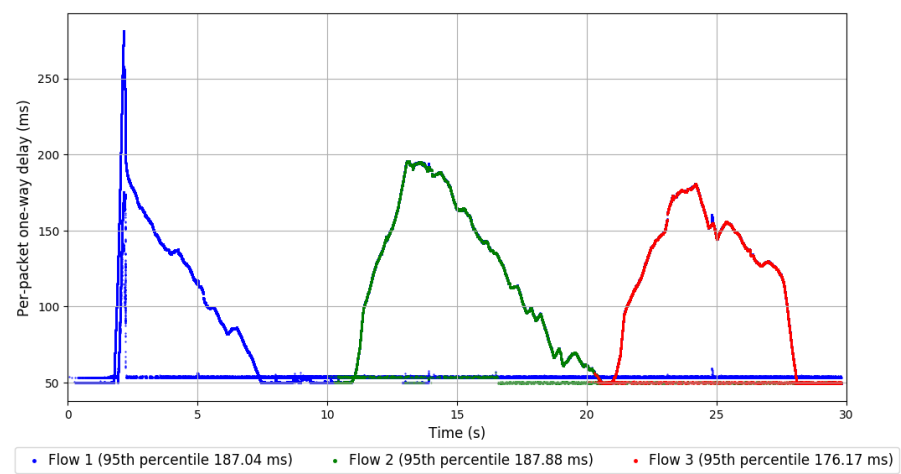
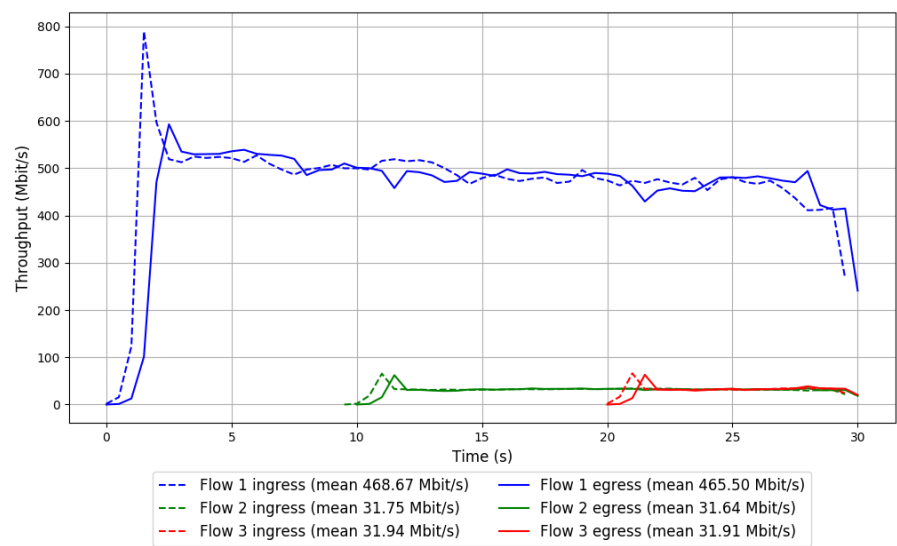
Run 3: Statistics of PCC-Allegro

Start at: 2018-07-12 17:50:33  
End at: 2018-07-12 17:51:03  
Local clock offset: -0.55 ms  
Remote clock offset: -0.132 ms

# Below is generated by plot.py at 2018-07-12 23:01:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 496.94 Mbit/s  
95th percentile per-packet one-way delay: 186.940 ms  
Loss rate: 1.09%  
-- Flow 1:  
Average throughput: 465.50 Mbit/s  
95th percentile per-packet one-way delay: 187.043 ms  
Loss rate: 1.10%  
-- Flow 2:  
Average throughput: 31.64 Mbit/s  
95th percentile per-packet one-way delay: 187.880 ms  
Loss rate: 0.87%  
-- Flow 3:  
Average throughput: 31.91 Mbit/s  
95th percentile per-packet one-way delay: 176.171 ms  
Loss rate: 1.12%



Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-12 18:15:23

End at: 2018-07-12 18:15:53

Local clock offset: 0.147 ms

Remote clock offset: 0.025 ms

# Below is generated by plot.py at 2018-07-12 23:01:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 451.18 Mbit/s

95th percentile per-packet one-way delay: 115.803 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 423.41 Mbit/s

95th percentile per-packet one-way delay: 115.732 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 7.23 Mbit/s

95th percentile per-packet one-way delay: 115.671 ms

Loss rate: 1.33%

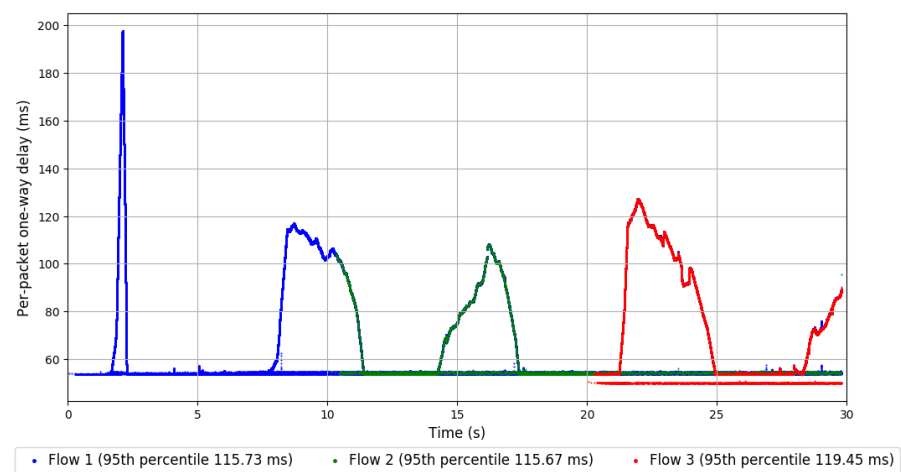
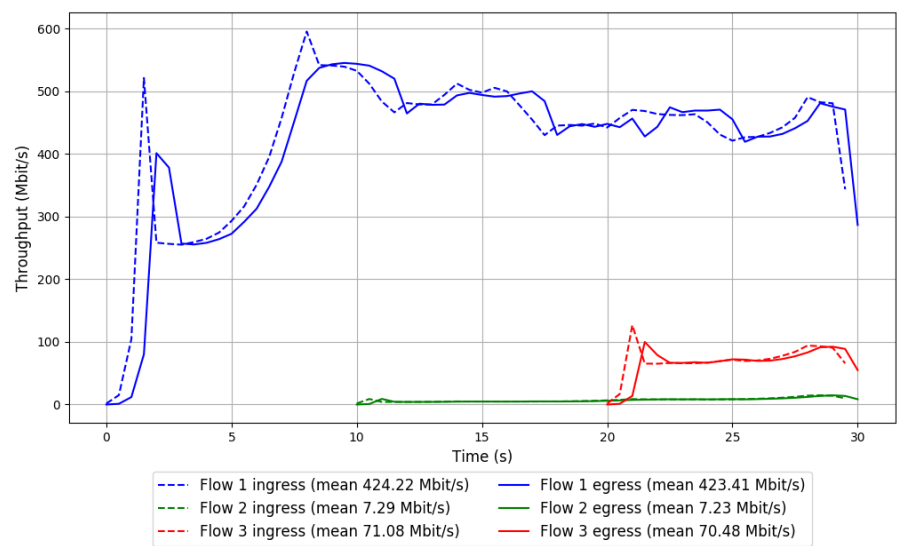
-- Flow 3:

Average throughput: 70.48 Mbit/s

95th percentile per-packet one-way delay: 119.447 ms

Loss rate: 1.86%

Run 4: Report of PCC-Allegro — Data Link

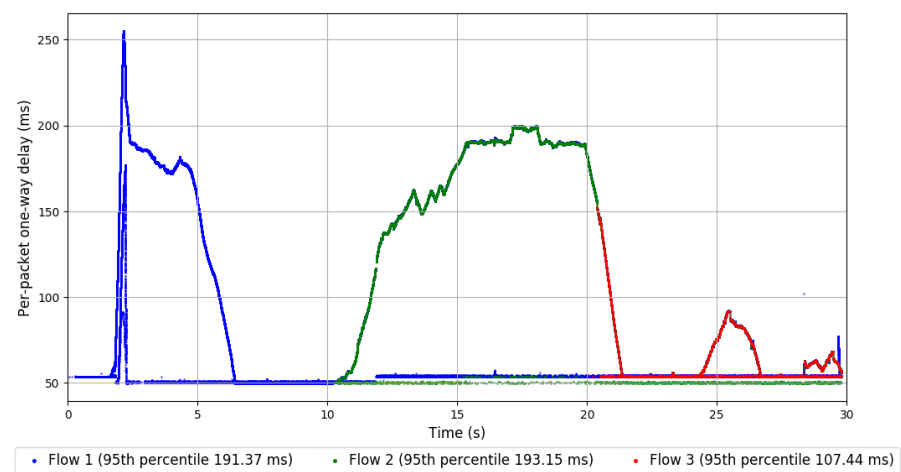
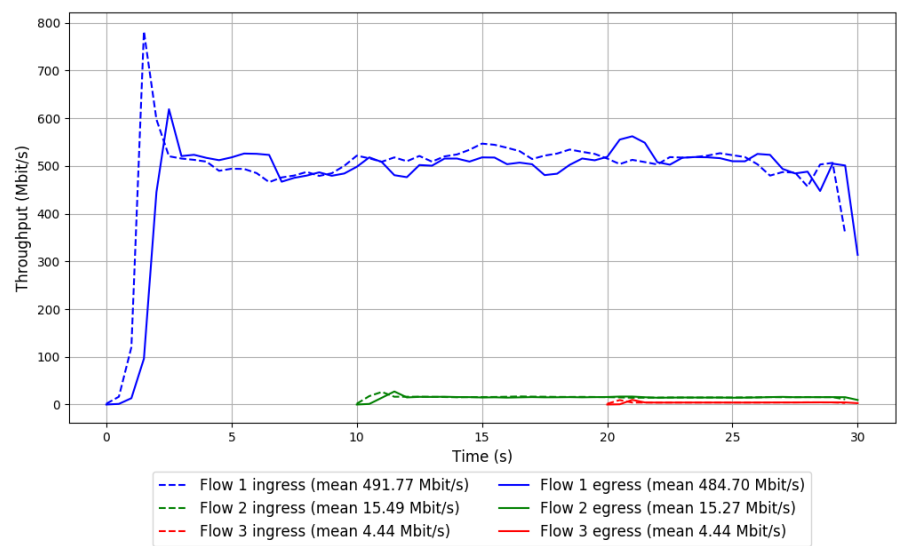


Run 5: Statistics of PCC-Allegro

Start at: 2018-07-12 18:40:28  
End at: 2018-07-12 18:40:58  
Local clock offset: -0.413 ms  
Remote clock offset: -0.226 ms

# Below is generated by plot.py at 2018-07-12 23:01:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 496.28 Mbit/s  
95th percentile per-packet one-way delay: 191.368 ms  
Loss rate: 1.79%  
-- Flow 1:  
Average throughput: 484.70 Mbit/s  
95th percentile per-packet one-way delay: 191.374 ms  
Loss rate: 1.79%  
-- Flow 2:  
Average throughput: 15.27 Mbit/s  
95th percentile per-packet one-way delay: 193.150 ms  
Loss rate: 1.95%  
-- Flow 3:  
Average throughput: 4.44 Mbit/s  
95th percentile per-packet one-way delay: 107.438 ms  
Loss rate: 1.15%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-12 19:05:57

End at: 2018-07-12 19:06:27

Local clock offset: 0.364 ms

Remote clock offset: 0.081 ms

# Below is generated by plot.py at 2018-07-12 23:01:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 495.02 Mbit/s

95th percentile per-packet one-way delay: 180.405 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 486.47 Mbit/s

95th percentile per-packet one-way delay: 180.509 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 4.09 Mbit/s

95th percentile per-packet one-way delay: 166.974 ms

Loss rate: 0.58%

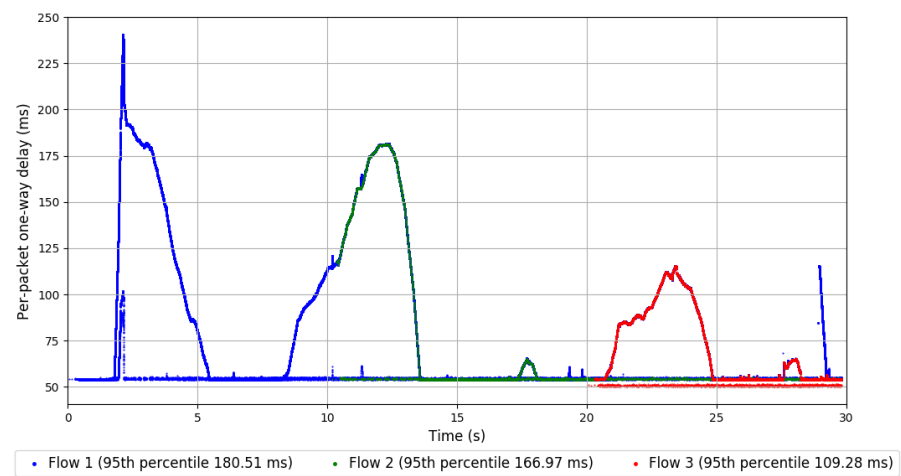
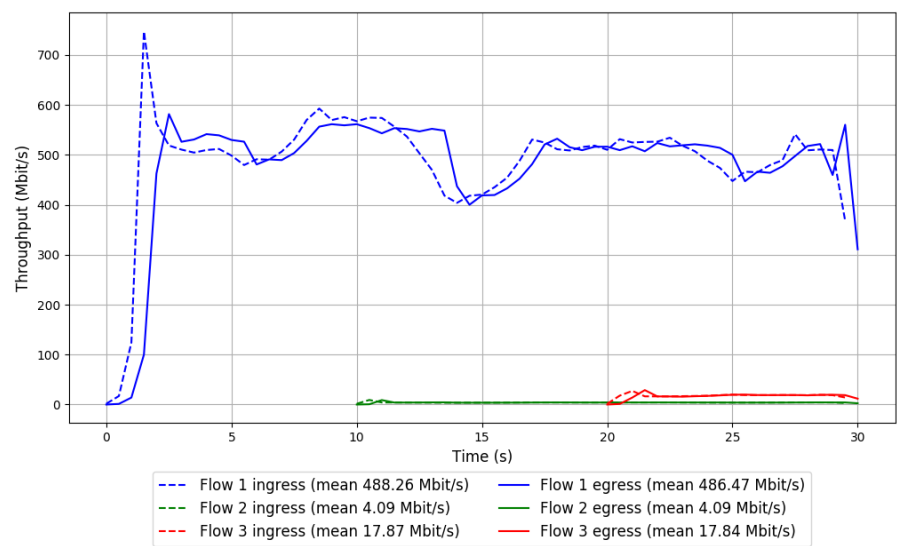
-- Flow 3:

Average throughput: 17.84 Mbit/s

95th percentile per-packet one-way delay: 109.277 ms

Loss rate: 1.23%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-12 19:31:17

End at: 2018-07-12 19:31:47

Local clock offset: 0.04 ms

Remote clock offset: -0.21 ms

# Below is generated by plot.py at 2018-07-12 23:02:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 483.62 Mbit/s

95th percentile per-packet one-way delay: 178.988 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 470.66 Mbit/s

95th percentile per-packet one-way delay: 179.473 ms

Loss rate: 1.39%

-- Flow 2:

Average throughput: 4.76 Mbit/s

95th percentile per-packet one-way delay: 176.273 ms

Loss rate: 1.59%

-- Flow 3:

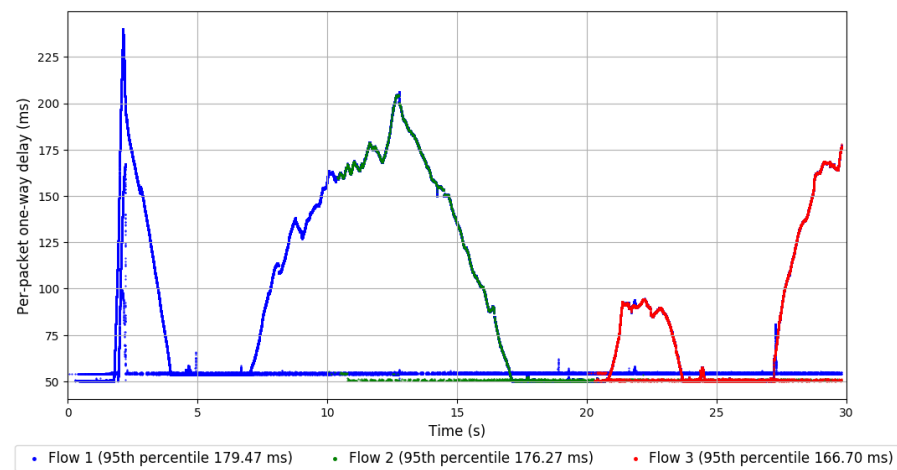
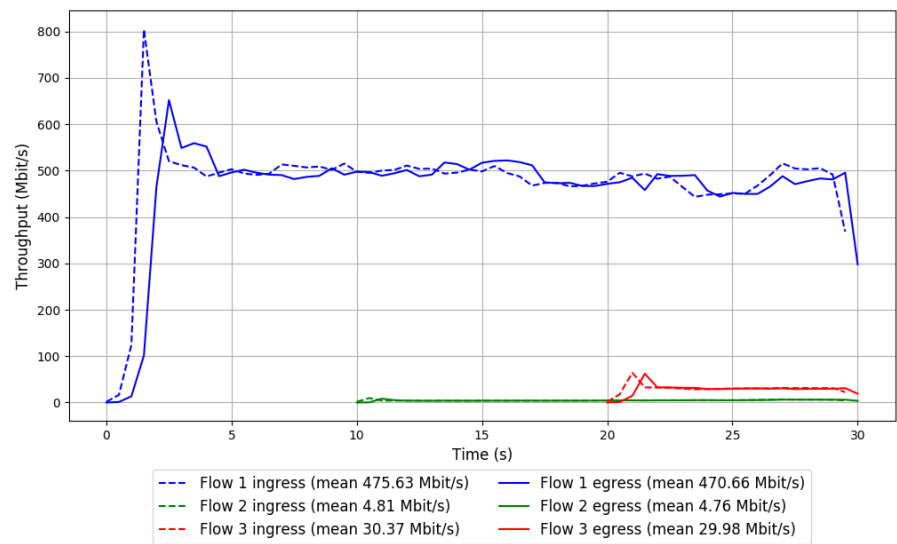
Average throughput: 29.98 Mbit/s

95th percentile per-packet one-way delay: 166.703 ms

Loss rate: 2.35%



Run 7: Report of PCC-Allegro — Data Link

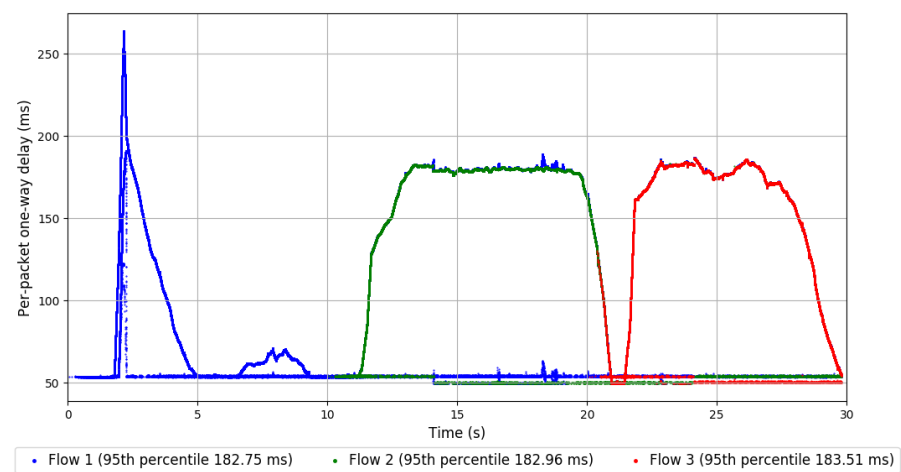
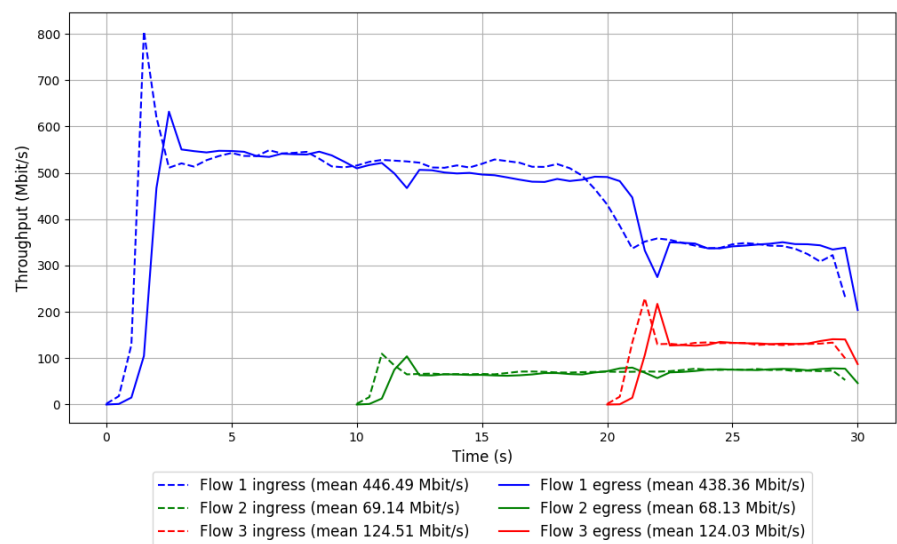


Run 8: Statistics of PCC-Allegro

Start at: 2018-07-12 19:56:56  
End at: 2018-07-12 19:57:26  
Local clock offset: -0.015 ms  
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2018-07-12 23:06:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 524.09 Mbit/s  
95th percentile per-packet one-way delay: 182.947 ms  
Loss rate: 2.11%  
-- Flow 1:  
Average throughput: 438.36 Mbit/s  
95th percentile per-packet one-way delay: 182.750 ms  
Loss rate: 2.18%  
-- Flow 2:  
Average throughput: 68.13 Mbit/s  
95th percentile per-packet one-way delay: 182.956 ms  
Loss rate: 2.00%  
-- Flow 3:  
Average throughput: 124.03 Mbit/s  
95th percentile per-packet one-way delay: 183.513 ms  
Loss rate: 1.48%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-12 20:21:46

End at: 2018-07-12 20:22:16

Local clock offset: 0.103 ms

Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2018-07-12 23:08:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 502.15 Mbit/s

95th percentile per-packet one-way delay: 191.059 ms

Loss rate: 2.79%

-- Flow 1:

Average throughput: 451.11 Mbit/s

95th percentile per-packet one-way delay: 191.757 ms

Loss rate: 2.87%

-- Flow 2:

Average throughput: 62.11 Mbit/s

95th percentile per-packet one-way delay: 185.585 ms

Loss rate: 1.71%

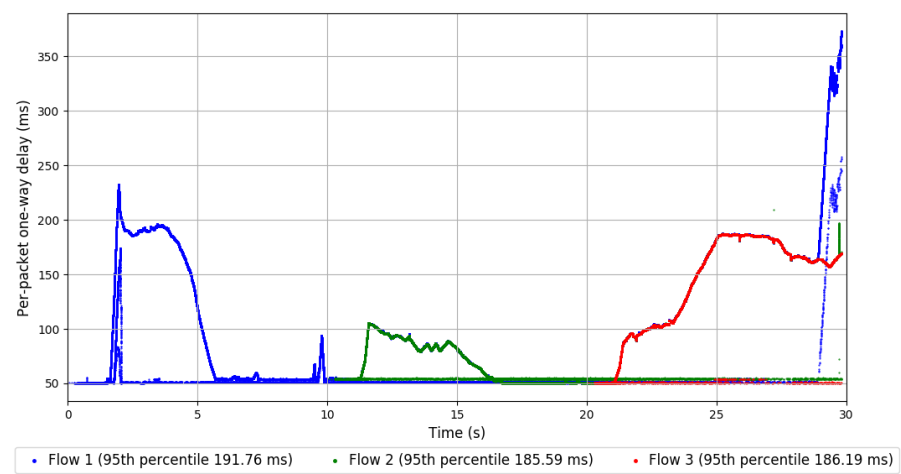
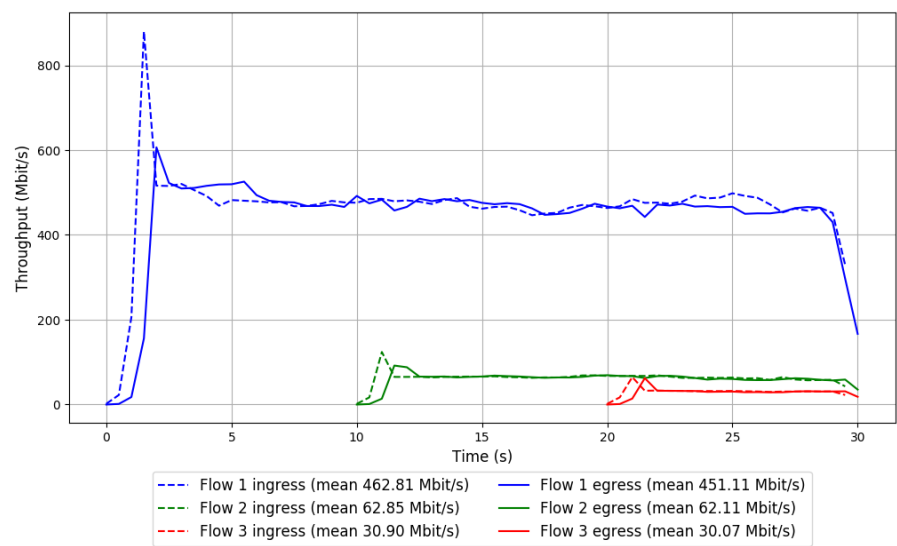
-- Flow 3:

Average throughput: 30.07 Mbit/s

95th percentile per-packet one-way delay: 186.193 ms

Loss rate: 3.72%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-07-12 20:47:15

End at: 2018-07-12 20:47:45

Local clock offset: 0.061 ms

Remote clock offset: 0.56 ms

# Below is generated by plot.py at 2018-07-12 23:08:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 476.87 Mbit/s

95th percentile per-packet one-way delay: 189.575 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 459.23 Mbit/s

95th percentile per-packet one-way delay: 189.739 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 18.20 Mbit/s

95th percentile per-packet one-way delay: 81.470 ms

Loss rate: 0.58%

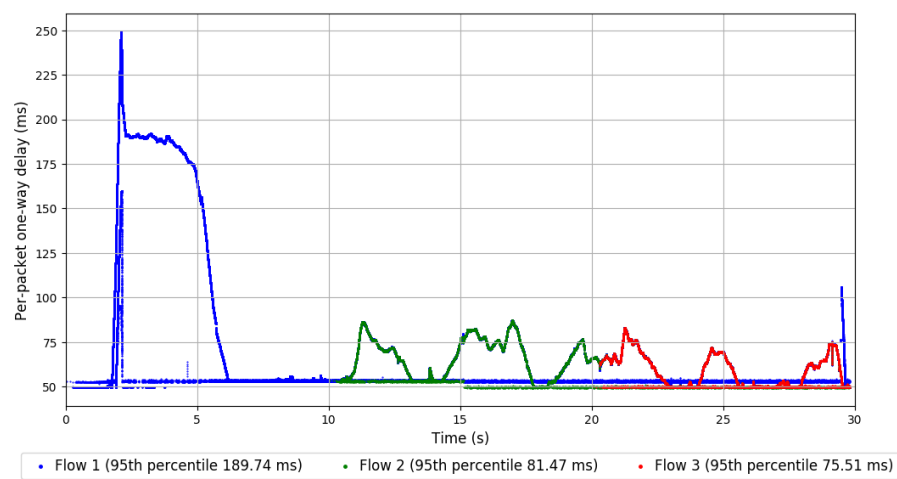
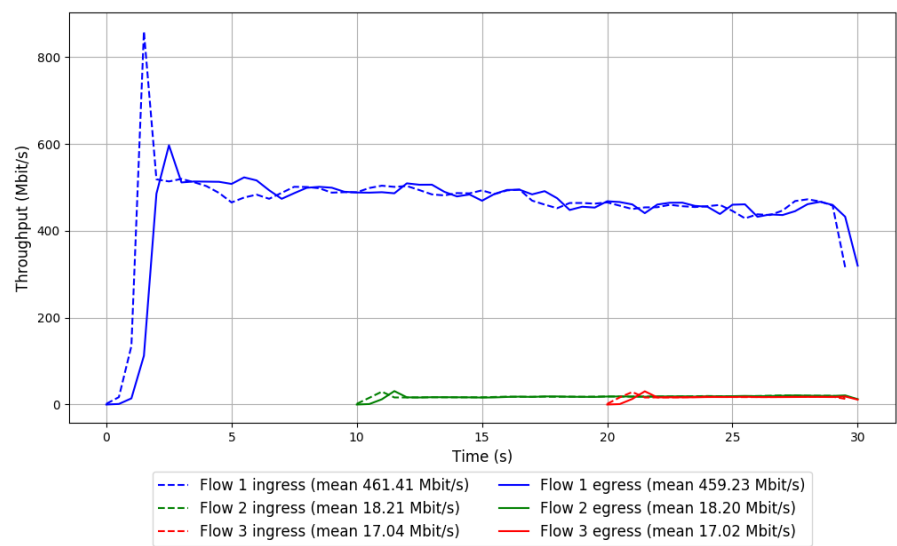
-- Flow 3:

Average throughput: 17.02 Mbit/s

95th percentile per-packet one-way delay: 75.513 ms

Loss rate: 1.12%

Run 10: Report of PCC-Allegro — Data Link



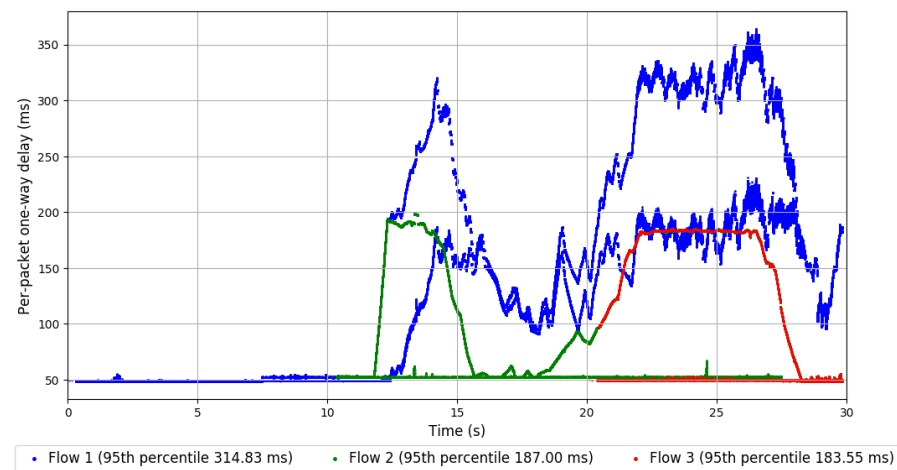
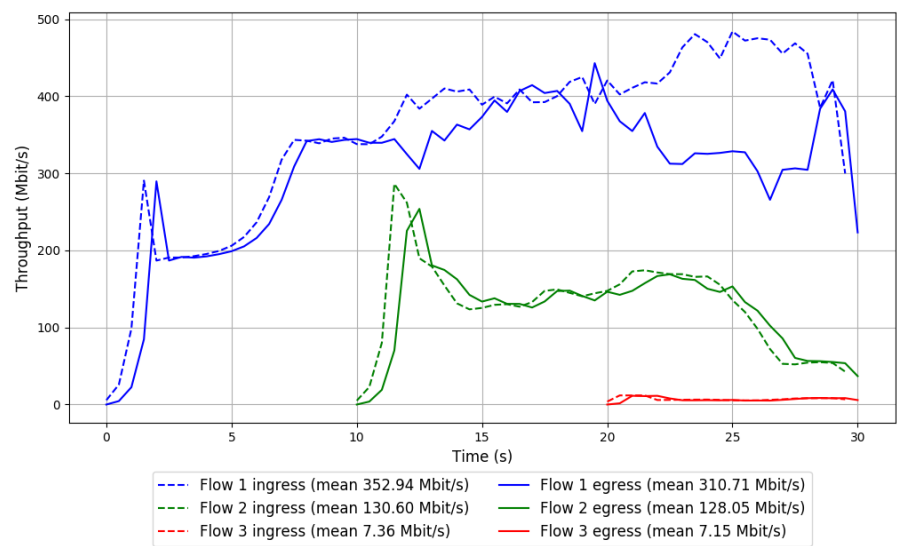
```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-12 16:41:42
End at: 2018-07-12 16:42:12
Local clock offset: 0.008 ms
Remote clock offset: 1.191 ms

# Below is generated by plot.py at 2018-07-12 23:14:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 398.01 Mbit/s
95th percentile per-packet one-way delay: 308.941 ms
Loss rate: 10.29%
-- Flow 1:
Average throughput: 310.71 Mbit/s
95th percentile per-packet one-way delay: 314.834 ms
Loss rate: 12.26%
-- Flow 2:
Average throughput: 128.05 Mbit/s
95th percentile per-packet one-way delay: 187.005 ms
Loss rate: 2.47%
-- Flow 3:
Average throughput: 7.15 Mbit/s
95th percentile per-packet one-way delay: 183.553 ms
Loss rate: 3.86%
```



Run 1: Report of PCC-Expr — Data Link

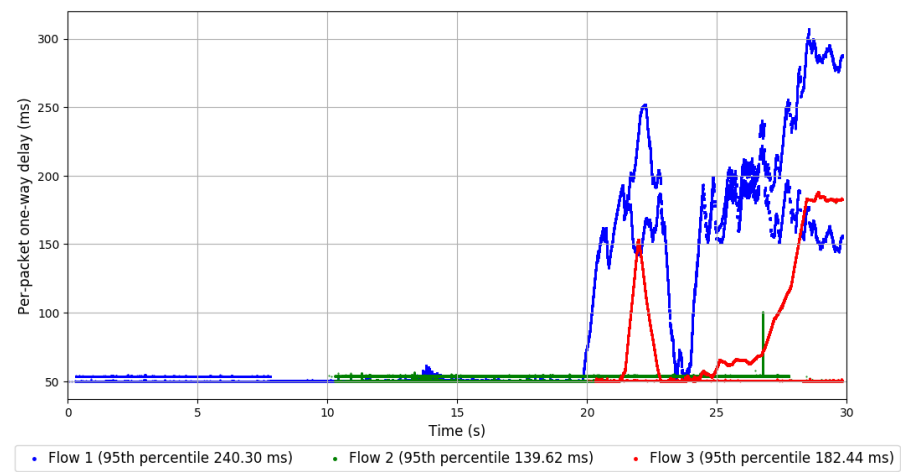
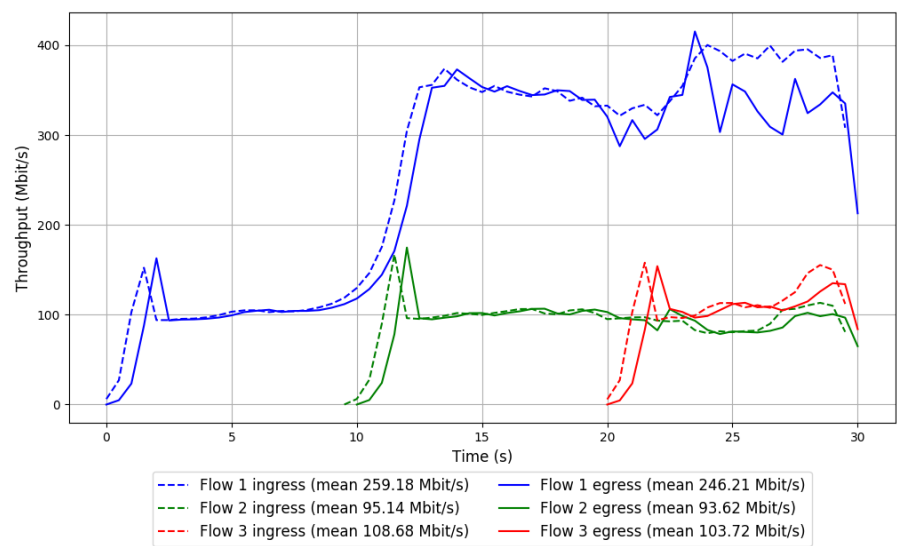


Run 2: Statistics of PCC-Expr

Start at: 2018-07-12 17:07:12  
End at: 2018-07-12 17:07:42  
Local clock offset: -0.024 ms  
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2018-07-12 23:14:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 342.40 Mbit/s  
95th percentile per-packet one-way delay: 214.684 ms  
Loss rate: 4.79%  
-- Flow 1:  
Average throughput: 246.21 Mbit/s  
95th percentile per-packet one-way delay: 240.300 ms  
Loss rate: 5.34%  
-- Flow 2:  
Average throughput: 93.62 Mbit/s  
95th percentile per-packet one-way delay: 139.618 ms  
Loss rate: 2.13%  
-- Flow 3:  
Average throughput: 103.72 Mbit/s  
95th percentile per-packet one-way delay: 182.439 ms  
Loss rate: 5.59%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-07-12 17:35:31

End at: 2018-07-12 17:36:01

Local clock offset: -0.039 ms

Remote clock offset: 1.077 ms

# Below is generated by plot.py at 2018-07-12 23:14:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 383.10 Mbit/s

95th percentile per-packet one-way delay: 202.400 ms

Loss rate: 3.67%

-- Flow 1:

Average throughput: 280.57 Mbit/s

95th percentile per-packet one-way delay: 203.819 ms

Loss rate: 3.24%

-- Flow 2:

Average throughput: 135.86 Mbit/s

95th percentile per-packet one-way delay: 195.132 ms

Loss rate: 4.34%

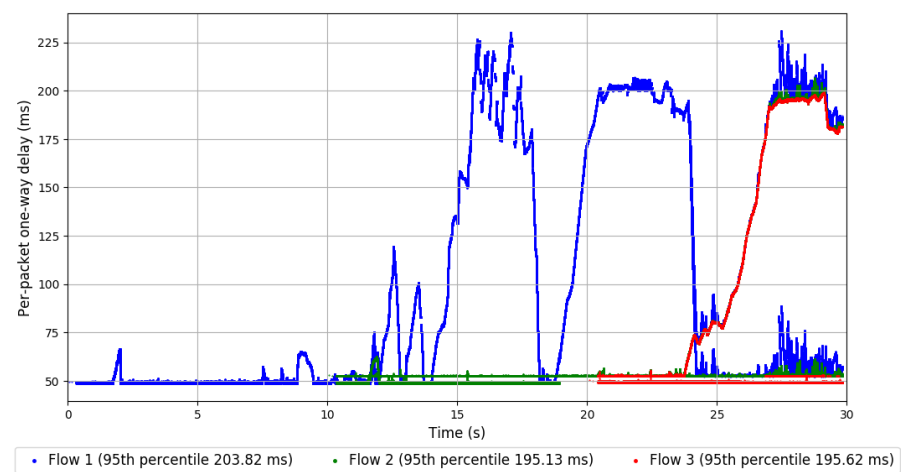
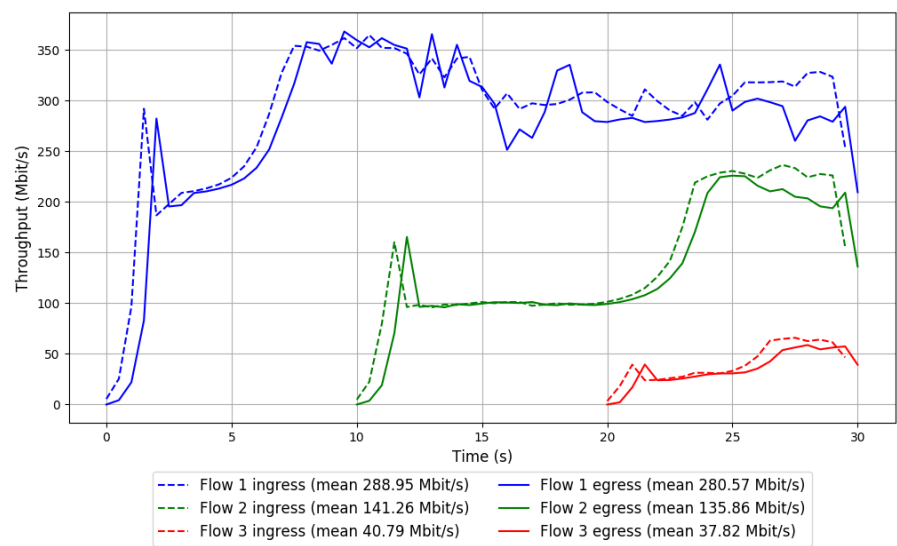
-- Flow 3:

Average throughput: 37.82 Mbit/s

95th percentile per-packet one-way delay: 195.625 ms

Loss rate: 8.26%

Run 3: Report of PCC-Expr — Data Link

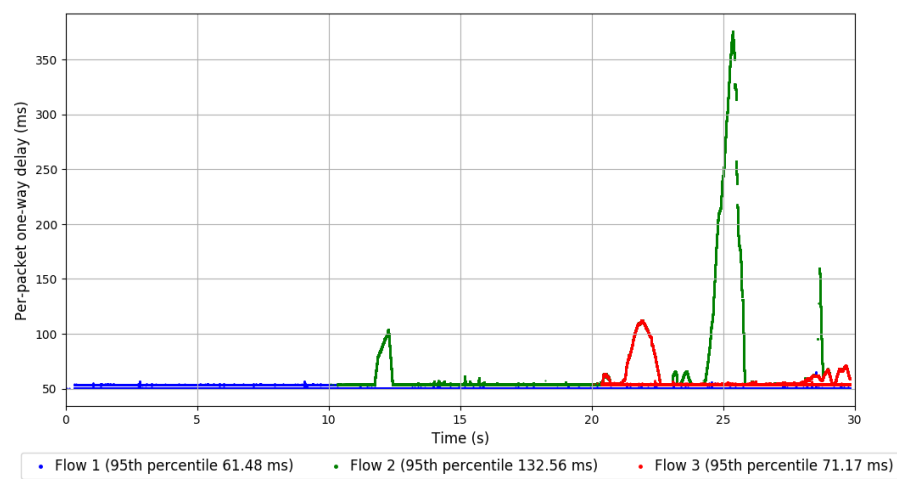
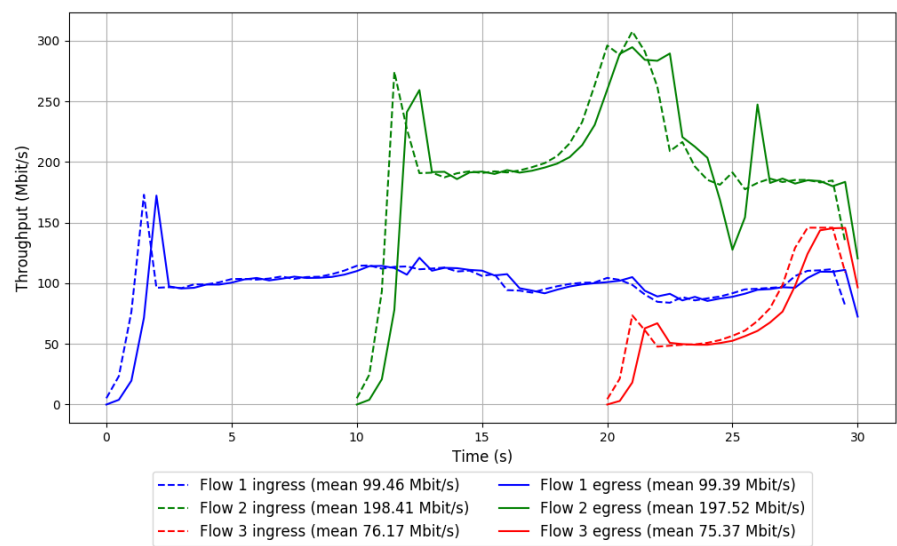


Run 4: Statistics of PCC-Expr

Start at: 2018-07-12 18:01:01  
End at: 2018-07-12 18:01:31  
Local clock offset: -0.128 ms  
Remote clock offset: -0.394 ms

# Below is generated by plot.py at 2018-07-12 23:14:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 255.15 Mbit/s  
95th percentile per-packet one-way delay: 104.032 ms  
Loss rate: 0.87%  
-- Flow 1:  
Average throughput: 99.39 Mbit/s  
95th percentile per-packet one-way delay: 61.476 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 197.52 Mbit/s  
95th percentile per-packet one-way delay: 132.565 ms  
Loss rate: 0.97%  
-- Flow 3:  
Average throughput: 75.37 Mbit/s  
95th percentile per-packet one-way delay: 71.168 ms  
Loss rate: 2.11%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-07-12 18:25:44

End at: 2018-07-12 18:26:14

Local clock offset: 0.11 ms

Remote clock offset: 0.164 ms

# Below is generated by plot.py at 2018-07-12 23:14:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 373.86 Mbit/s

95th percentile per-packet one-way delay: 200.004 ms

Loss rate: 4.89%

-- Flow 1:

Average throughput: 285.39 Mbit/s

95th percentile per-packet one-way delay: 208.076 ms

Loss rate: 5.20%

-- Flow 2:

Average throughput: 91.30 Mbit/s

95th percentile per-packet one-way delay: 164.077 ms

Loss rate: 2.92%

-- Flow 3:

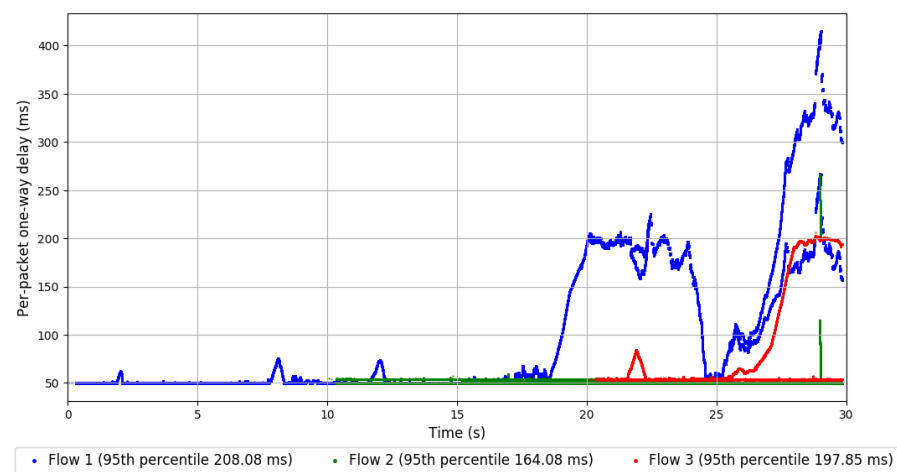
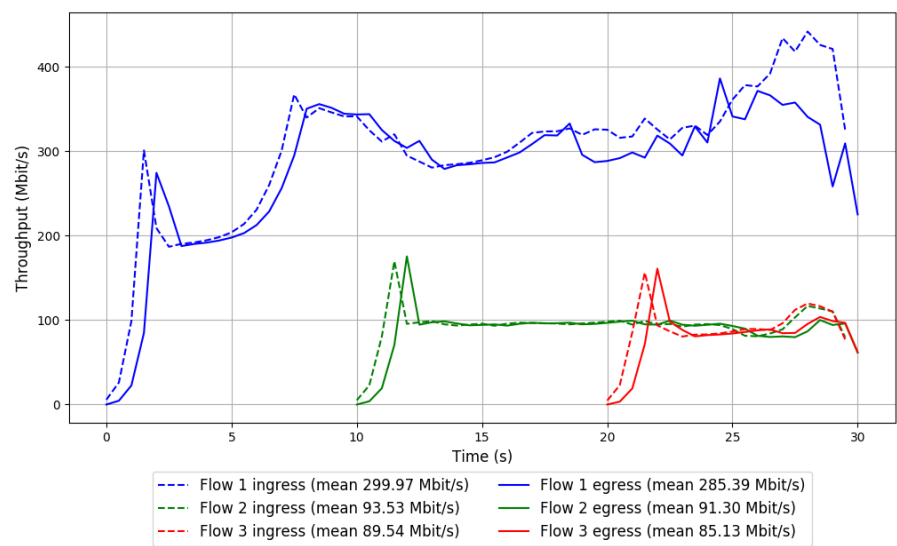
Average throughput: 85.13 Mbit/s

95th percentile per-packet one-way delay: 197.850 ms

Loss rate: 5.98%



Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-07-12 18:50:52

End at: 2018-07-12 18:51:22

Local clock offset: -0.028 ms

Remote clock offset: 0.05 ms

# Below is generated by plot.py at 2018-07-12 23:24:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 422.08 Mbit/s

95th percentile per-packet one-way delay: 204.026 ms

Loss rate: 14.60%

-- Flow 1:

Average throughput: 242.71 Mbit/s

95th percentile per-packet one-way delay: 201.290 ms

Loss rate: 11.15%

-- Flow 2:

Average throughput: 268.61 Mbit/s

95th percentile per-packet one-way delay: 207.007 ms

Loss rate: 18.83%

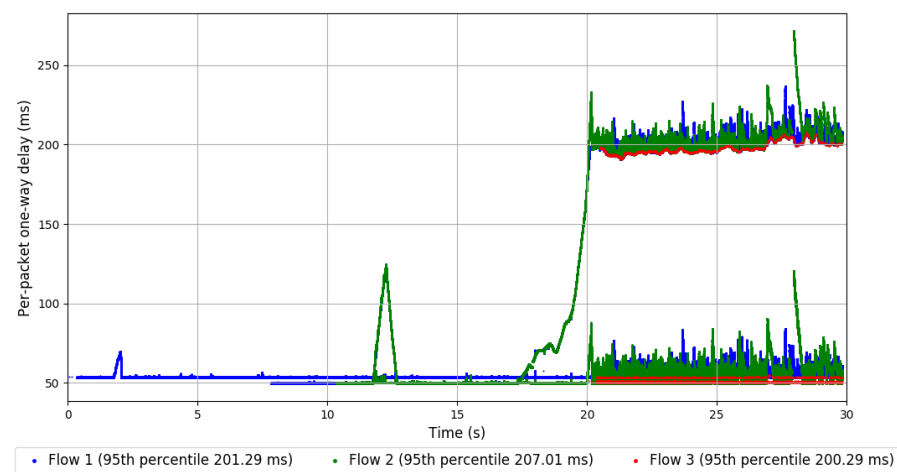
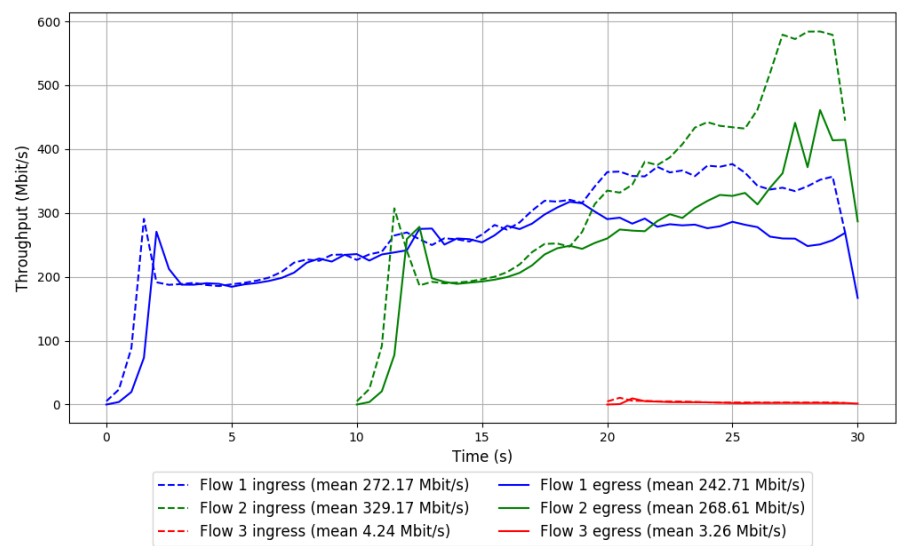
-- Flow 3:

Average throughput: 3.26 Mbit/s

95th percentile per-packet one-way delay: 200.295 ms

Loss rate: 23.99%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-07-12 19:16:18

End at: 2018-07-12 19:16:48

Local clock offset: 0.21 ms

Remote clock offset: 0.073 ms

# Below is generated by plot.py at 2018-07-12 23:24:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 392.49 Mbit/s

95th percentile per-packet one-way delay: 246.146 ms

Loss rate: 4.45%

-- Flow 1:

Average throughput: 298.31 Mbit/s

95th percentile per-packet one-way delay: 250.826 ms

Loss rate: 5.56%

-- Flow 2:

Average throughput: 95.92 Mbit/s

95th percentile per-packet one-way delay: 53.907 ms

Loss rate: 0.53%

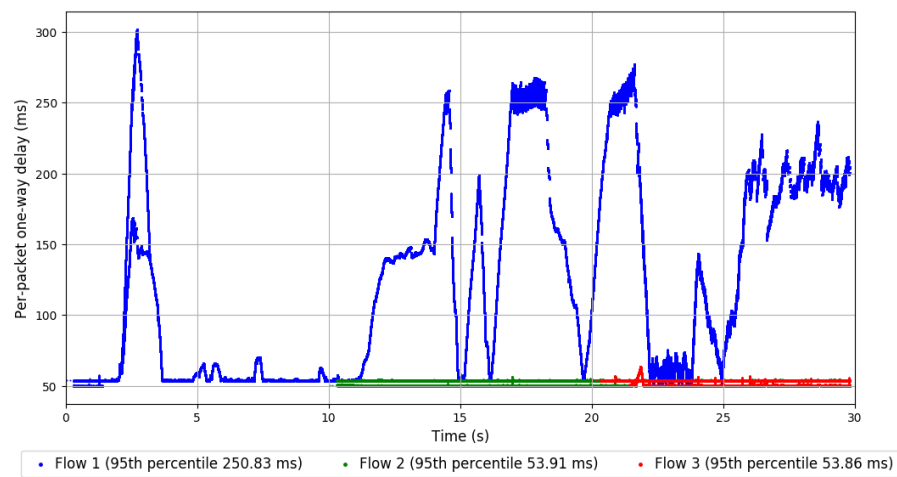
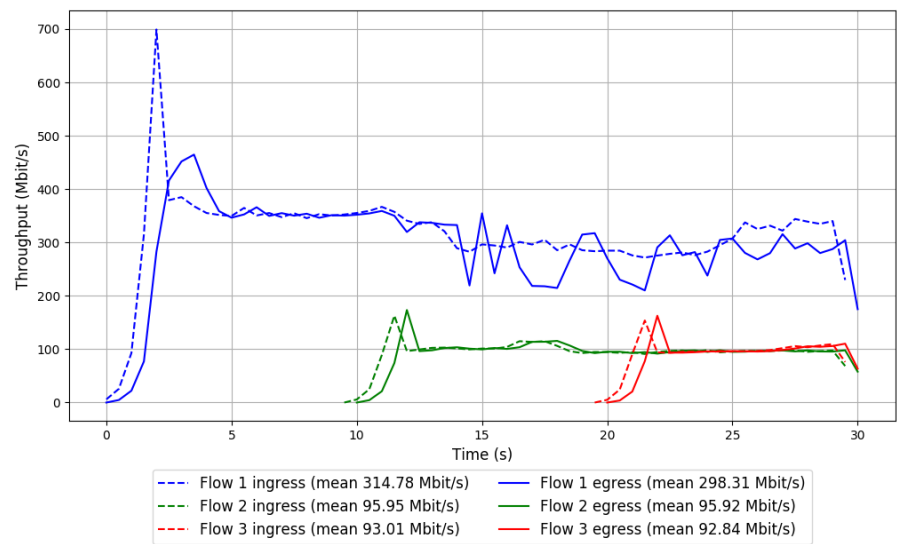
-- Flow 3:

Average throughput: 92.84 Mbit/s

95th percentile per-packet one-way delay: 53.862 ms

Loss rate: 1.24%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-07-12 19:41:40

End at: 2018-07-12 19:42:10

Local clock offset: 0.166 ms

Remote clock offset: 0.025 ms

# Below is generated by plot.py at 2018-07-12 23:25:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 449.83 Mbit/s

95th percentile per-packet one-way delay: 144.326 ms

Loss rate: 1.72%

-- Flow 1:

Average throughput: 290.56 Mbit/s

95th percentile per-packet one-way delay: 140.743 ms

Loss rate: 1.39%

-- Flow 2:

Average throughput: 214.11 Mbit/s

95th percentile per-packet one-way delay: 157.611 ms

Loss rate: 2.30%

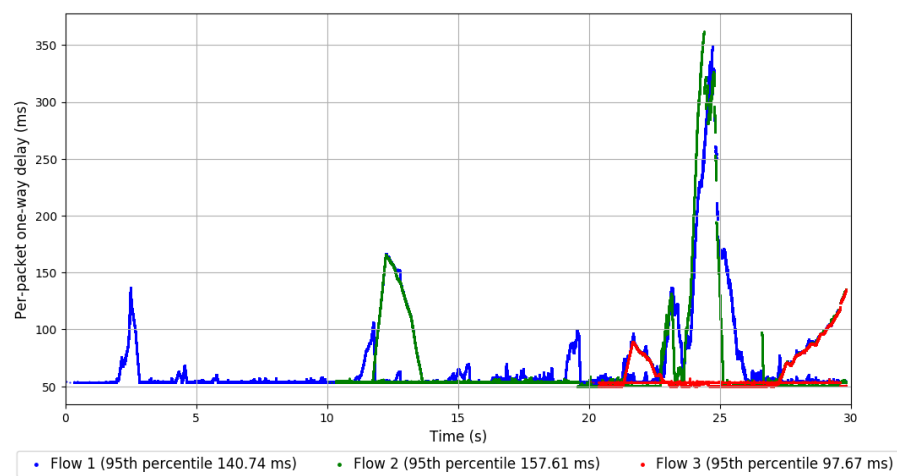
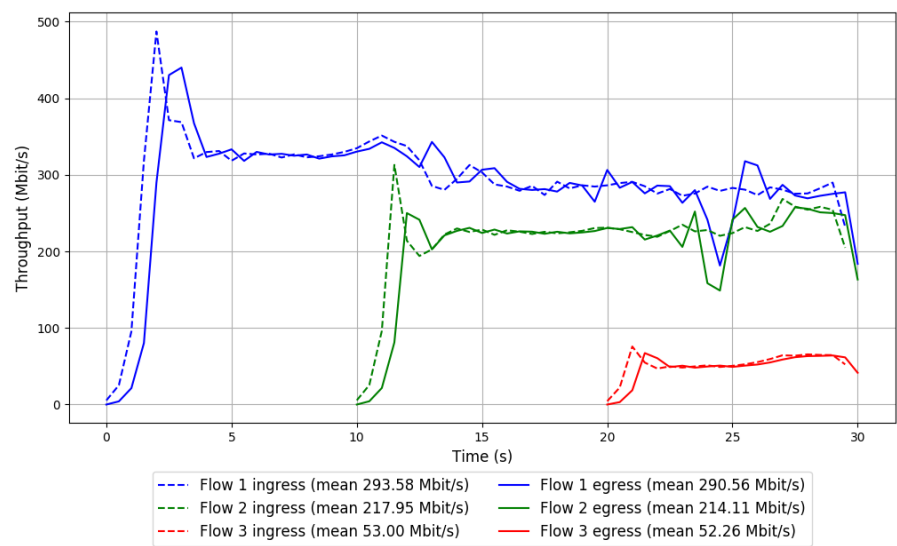
-- Flow 3:

Average throughput: 52.26 Mbit/s

95th percentile per-packet one-way delay: 97.675 ms

Loss rate: 2.48%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-07-12 20:07:04

End at: 2018-07-12 20:07:34

Local clock offset: -0.058 ms

Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2018-07-12 23:25:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 316.88 Mbit/s

95th percentile per-packet one-way delay: 178.595 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 234.96 Mbit/s

95th percentile per-packet one-way delay: 180.066 ms

Loss rate: 1.66%

-- Flow 2:

Average throughput: 99.21 Mbit/s

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

Loss rate: 0.49%

-- Flow 3:

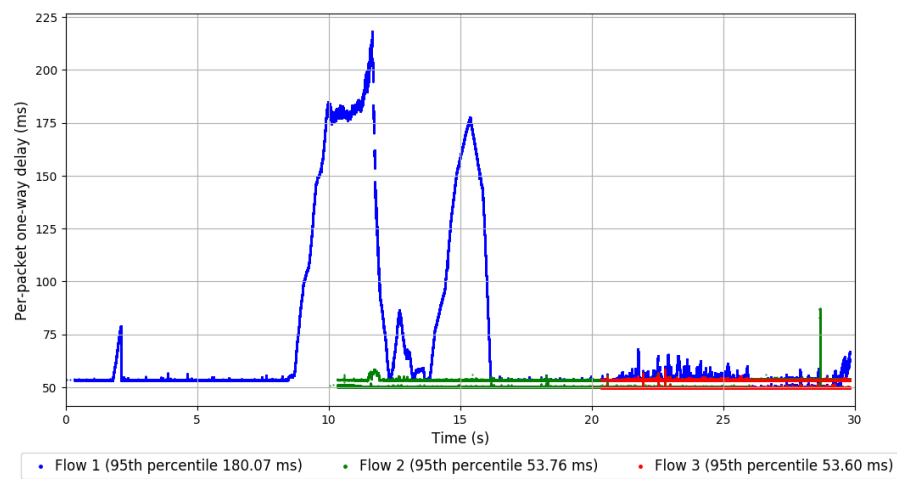
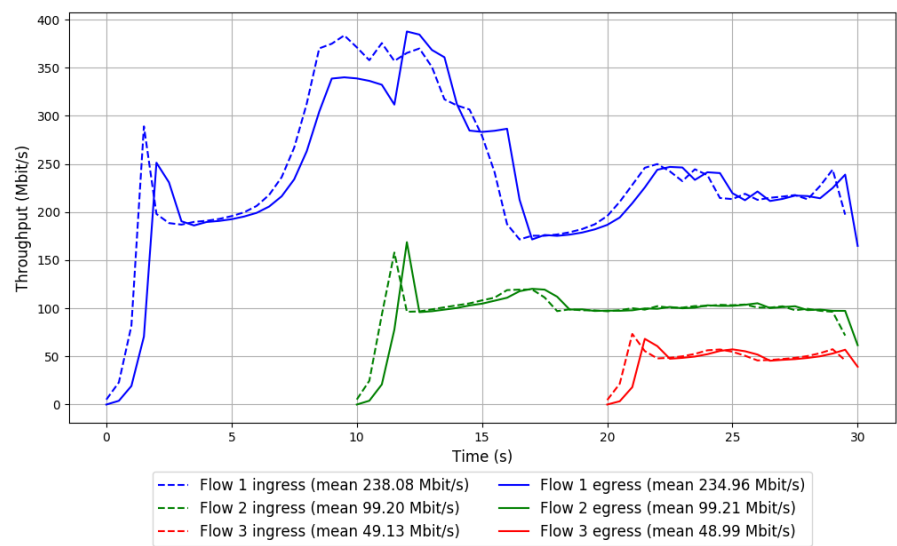
Average throughput: 48.99 Mbit/s

95th percentile per-packet one-way delay: 53.603 ms

Loss rate: 1.30%



Run 9: Report of PCC-Expr — Data Link

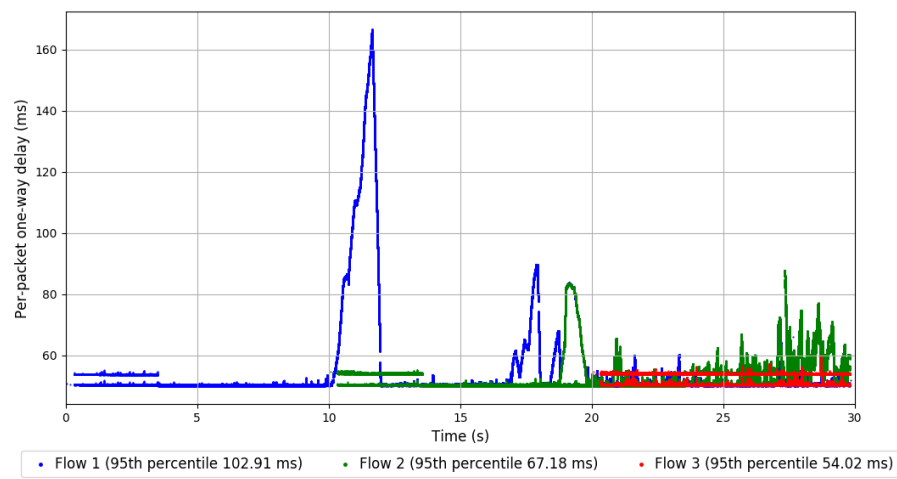
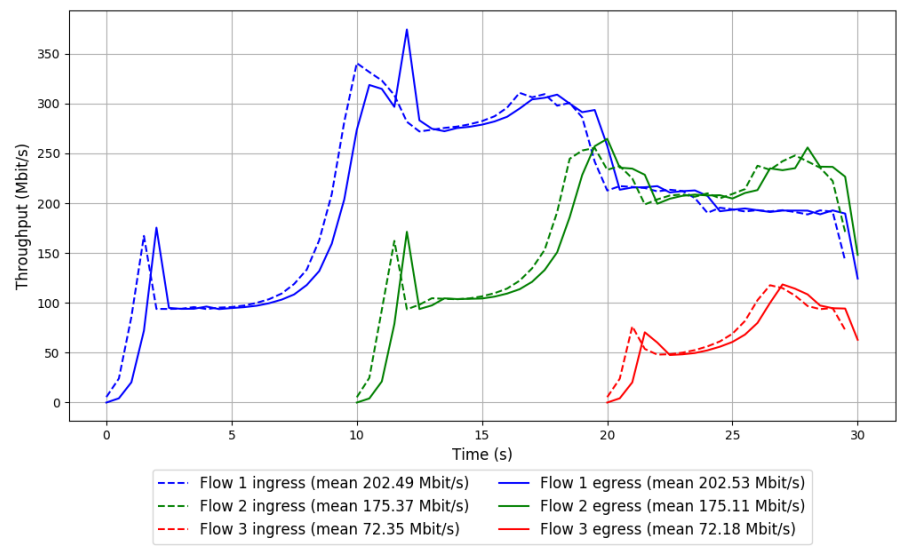


Run 10: Statistics of PCC-Expr

Start at: 2018-07-12 20:32:16  
End at: 2018-07-12 20:32:46  
Local clock offset: -0.043 ms  
Remote clock offset: -0.295 ms

# Below is generated by plot.py at 2018-07-12 23:25:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 342.41 Mbit/s  
95th percentile per-packet one-way delay: 83.079 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 202.53 Mbit/s  
95th percentile per-packet one-way delay: 102.905 ms  
Loss rate: 0.31%  
-- Flow 2:  
Average throughput: 175.11 Mbit/s  
95th percentile per-packet one-way delay: 67.176 ms  
Loss rate: 0.68%  
-- Flow 3:  
Average throughput: 72.18 Mbit/s  
95th percentile per-packet one-way delay: 54.021 ms  
Loss rate: 1.37%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-07-12 16:50:46

End at: 2018-07-12 16:51:16

Local clock offset: -0.191 ms

Remote clock offset: 0.058 ms

# Below is generated by plot.py at 2018-07-12 23:25:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 75.89 Mbit/s

95th percentile per-packet one-way delay: 53.281 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 46.44 Mbit/s

95th percentile per-packet one-way delay: 53.287 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 33.28 Mbit/s

95th percentile per-packet one-way delay: 53.278 ms

Loss rate: 1.00%

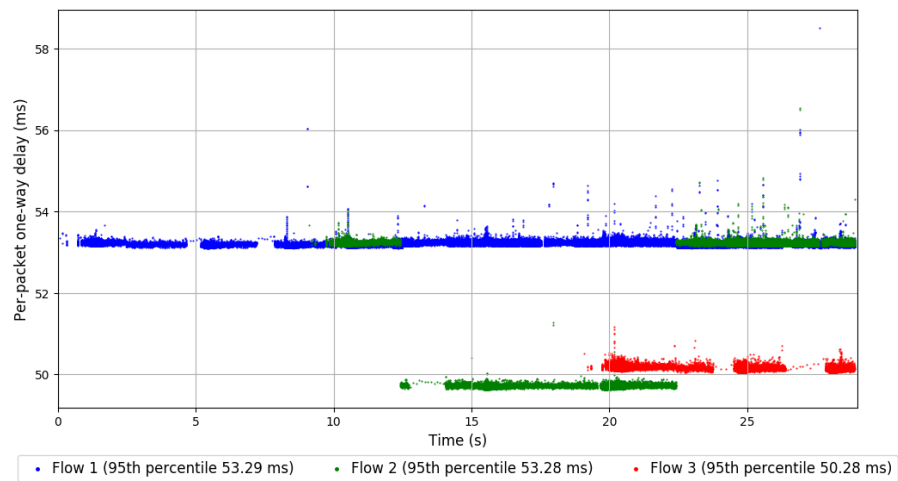
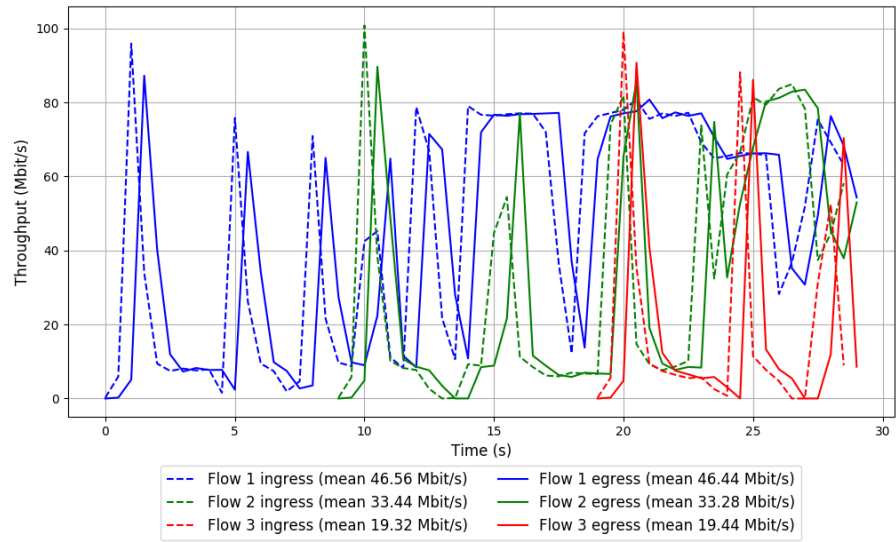
-- Flow 3:

Average throughput: 19.44 Mbit/s

95th percentile per-packet one-way delay: 50.278 ms

Loss rate: 0.43%

## Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-07-12 17:17:00

End at: 2018-07-12 17:17:30

Local clock offset: -0.104 ms

Remote clock offset: 0.06 ms

# Below is generated by plot.py at 2018-07-12 23:25:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 81.57 Mbit/s

95th percentile per-packet one-way delay: 53.358 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 46.45 Mbit/s

95th percentile per-packet one-way delay: 53.365 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 44.22 Mbit/s

95th percentile per-packet one-way delay: 53.310 ms

Loss rate: 0.92%

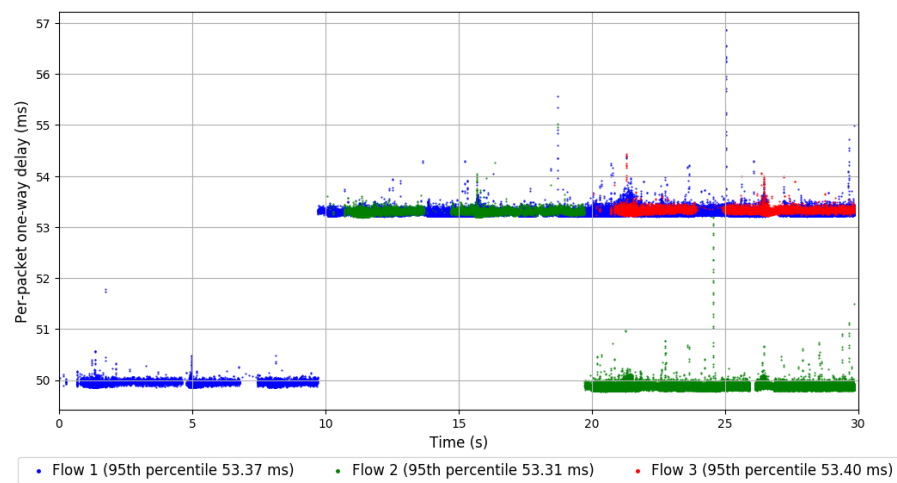
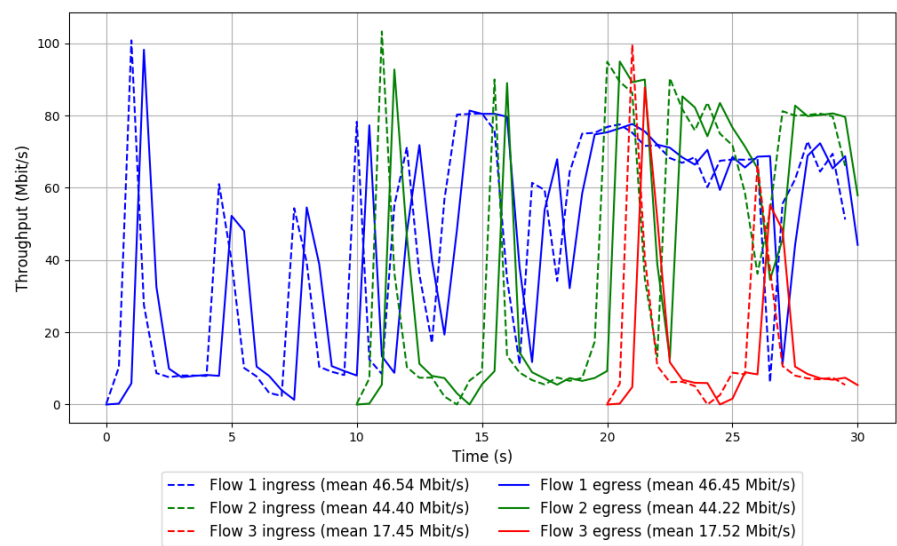
-- Flow 3:

Average throughput: 17.52 Mbit/s

95th percentile per-packet one-way delay: 53.398 ms

Loss rate: 0.26%

Run 2: Report of QUIC Cubic — Data Link



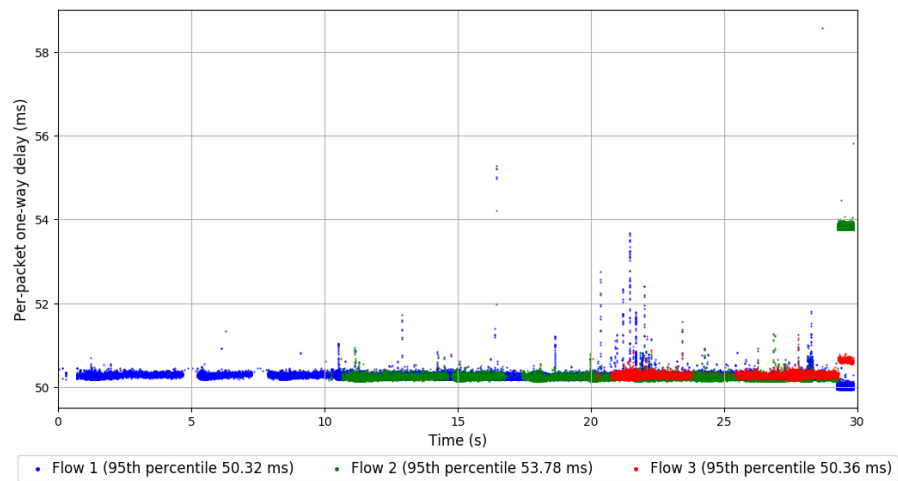
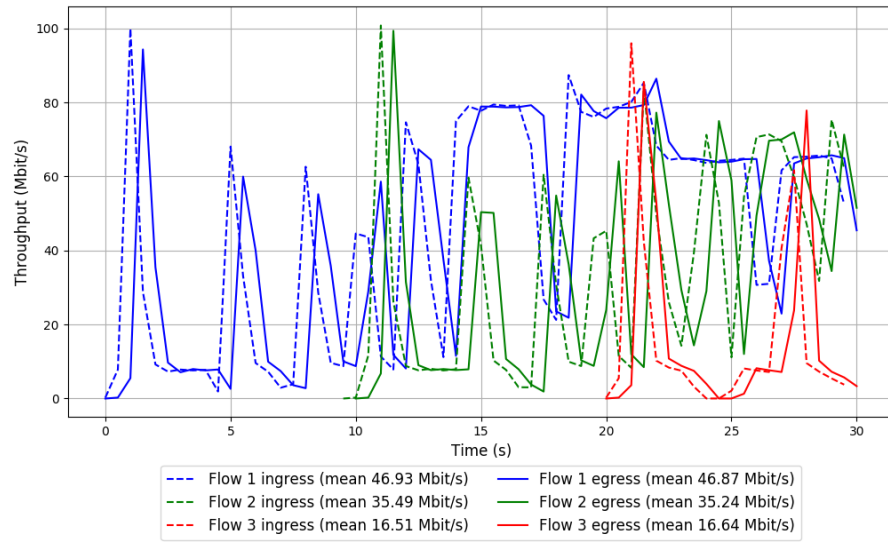
Run 3: Statistics of QUIC Cubic

Start at: 2018-07-12 17:44:50  
End at: 2018-07-12 17:45:20  
Local clock offset: 0.059 ms  
Remote clock offset: -0.118 ms

# Below is generated by plot.py at 2018-07-12 23:25:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.75 Mbit/s  
95th percentile per-packet one-way delay: 50.334 ms  
Loss rate: 0.69%  
-- Flow 1:  
Average throughput: 46.87 Mbit/s  
95th percentile per-packet one-way delay: 50.319 ms  
Loss rate: 0.49%  
-- Flow 2:  
Average throughput: 35.24 Mbit/s  
95th percentile per-packet one-way delay: 53.785 ms  
Loss rate: 1.20%  
-- Flow 3:  
Average throughput: 16.64 Mbit/s  
95th percentile per-packet one-way delay: 50.361 ms  
Loss rate: 0.28%



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

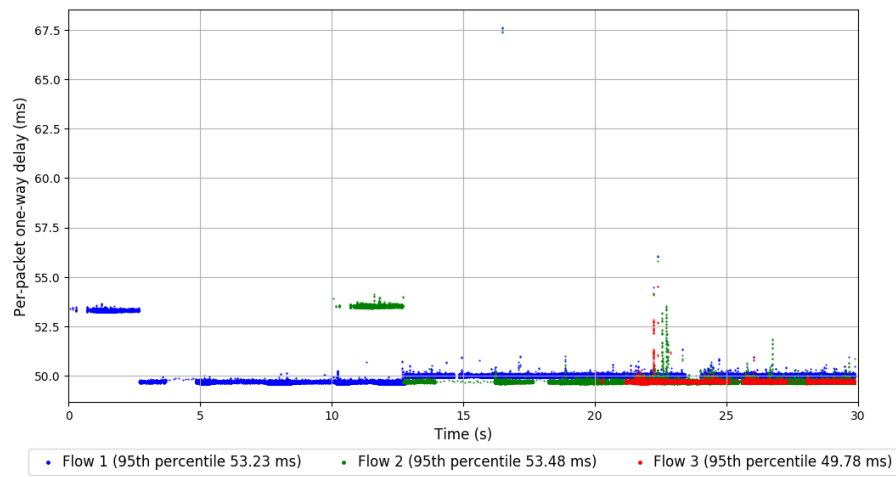
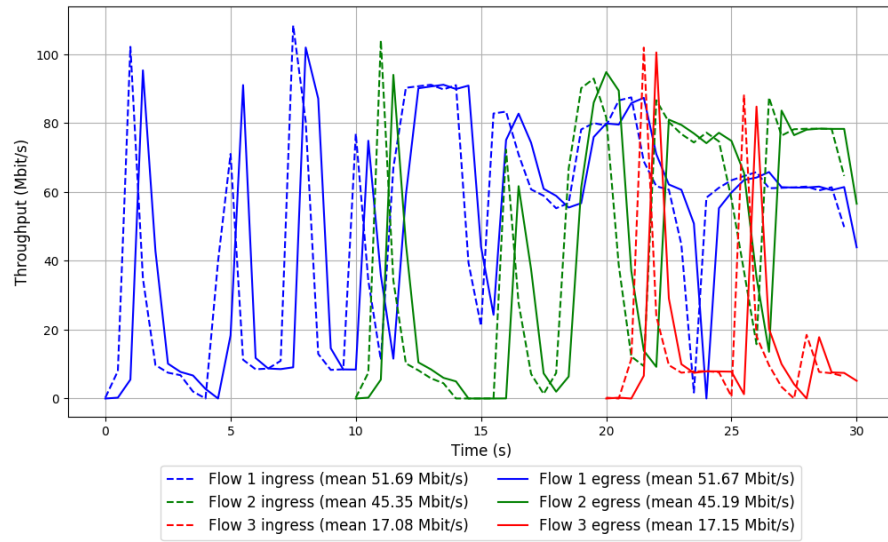


Run 4: Statistics of QUIC Cubic

Start at: 2018-07-12 18:09:57  
End at: 2018-07-12 18:10:27  
Local clock offset: -0.219 ms  
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2018-07-12 23:25:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.33 Mbit/s  
95th percentile per-packet one-way delay: 53.269 ms  
Loss rate: 0.57%  
-- Flow 1:  
Average throughput: 51.67 Mbit/s  
95th percentile per-packet one-way delay: 53.227 ms  
Loss rate: 0.39%  
-- Flow 2:  
Average throughput: 45.19 Mbit/s  
95th percentile per-packet one-way delay: 53.479 ms  
Loss rate: 0.88%  
-- Flow 3:  
Average throughput: 17.15 Mbit/s  
95th percentile per-packet one-way delay: 49.779 ms  
Loss rate: 0.59%

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

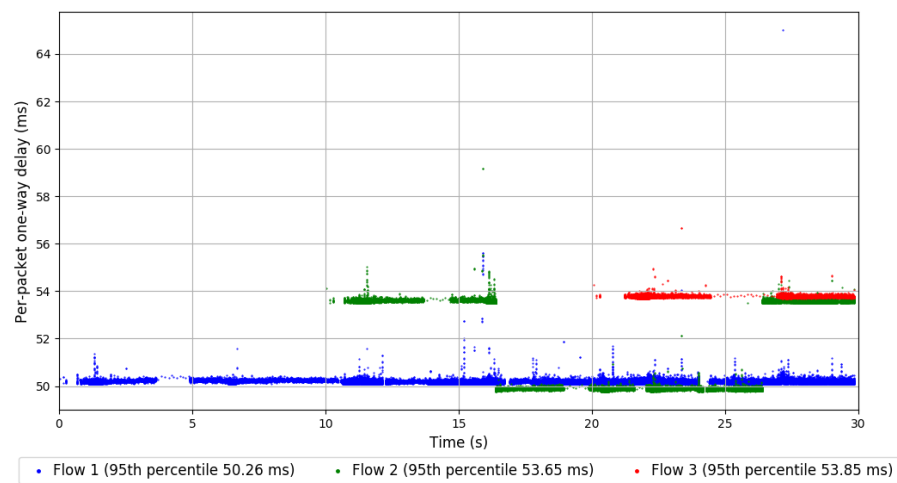
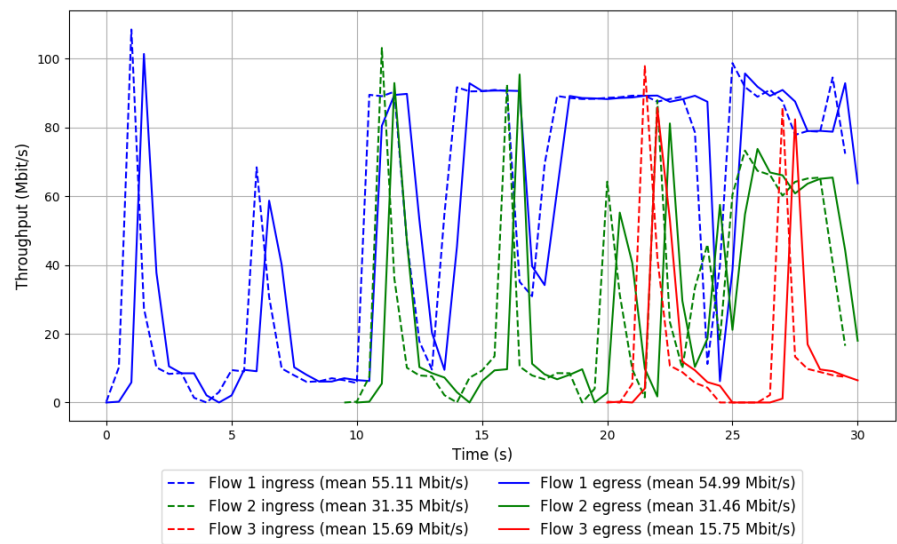


Run 5: Statistics of QUIC Cubic

Start at: 2018-07-12 18:35:03  
End at: 2018-07-12 18:35:33  
Local clock offset: -0.135 ms  
Remote clock offset: -0.177 ms

# Below is generated by plot.py at 2018-07-12 23:25:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.07 Mbit/s  
95th percentile per-packet one-way delay: 53.744 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 54.99 Mbit/s  
95th percentile per-packet one-way delay: 50.260 ms  
Loss rate: 0.55%  
-- Flow 2:  
Average throughput: 31.46 Mbit/s  
95th percentile per-packet one-way delay: 53.646 ms  
Loss rate: 0.17%  
-- Flow 3:  
Average throughput: 15.75 Mbit/s  
95th percentile per-packet one-way delay: 53.850 ms  
Loss rate: 0.65%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-12 19:00:10

End at: 2018-07-12 19:00:40

Local clock offset: 0.19 ms

Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2018-07-12 23:25:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 82.95 Mbit/s

95th percentile per-packet one-way delay: 50.410 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 46.33 Mbit/s

95th percentile per-packet one-way delay: 50.280 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 46.77 Mbit/s

95th percentile per-packet one-way delay: 50.443 ms

Loss rate: 0.88%

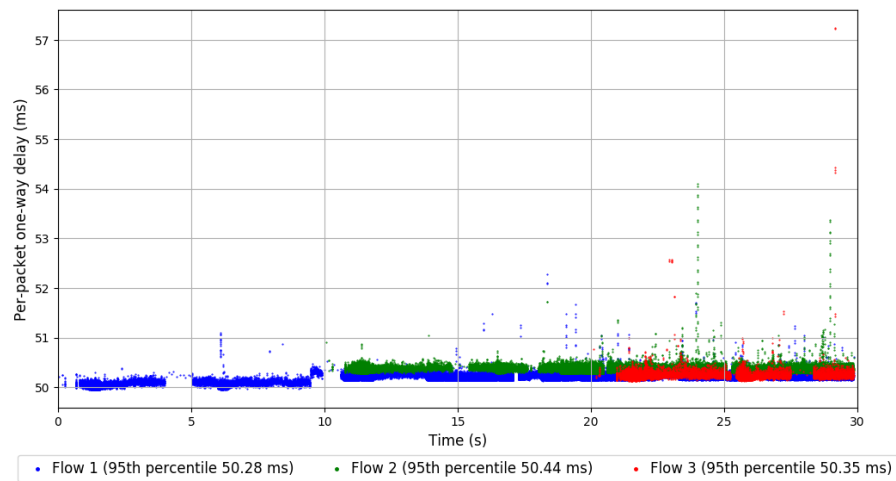
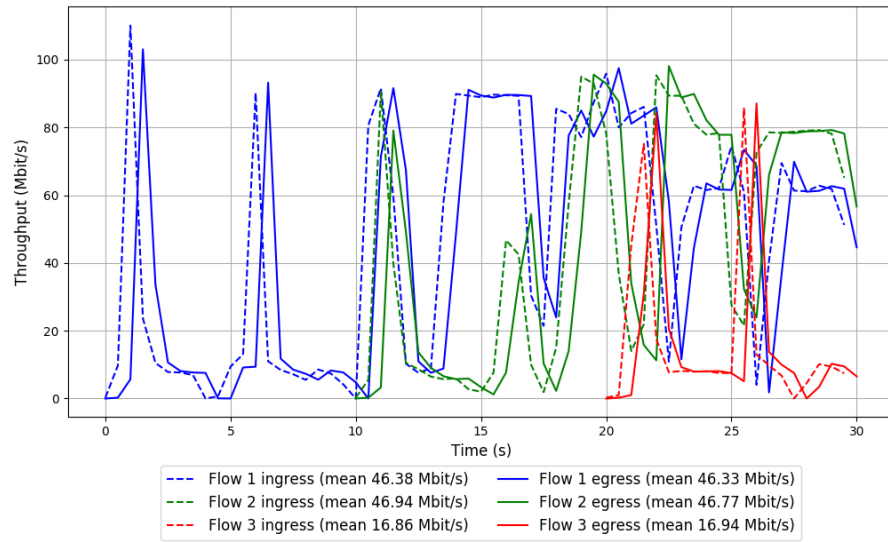
-- Flow 3:

Average throughput: 16.94 Mbit/s

95th percentile per-packet one-way delay: 50.353 ms

Loss rate: 0.54%

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



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-12 19:25:29

End at: 2018-07-12 19:25:59

Local clock offset: -0.027 ms

Remote clock offset: 0.093 ms

# Below is generated by plot.py at 2018-07-12 23:25:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 79.96 Mbit/s

95th percentile per-packet one-way delay: 50.087 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 54.03 Mbit/s

95th percentile per-packet one-way delay: 50.094 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 30.55 Mbit/s

95th percentile per-packet one-way delay: 49.852 ms

Loss rate: 0.16%

-- Flow 3:

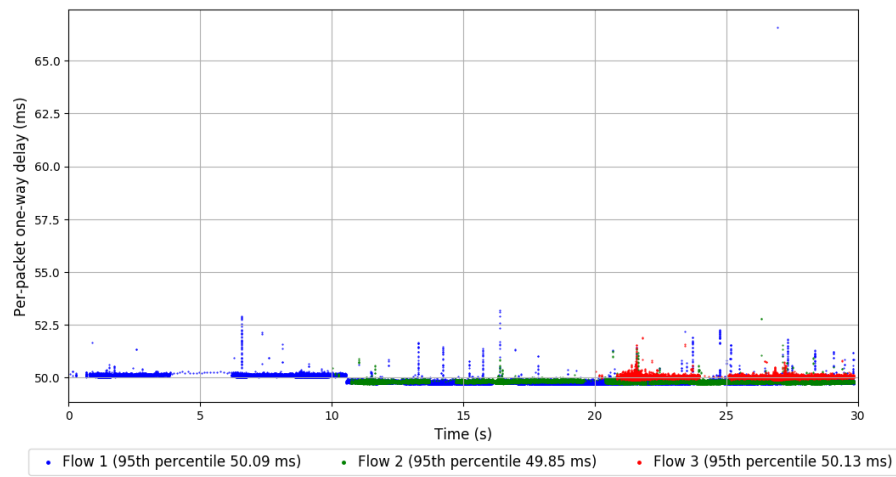
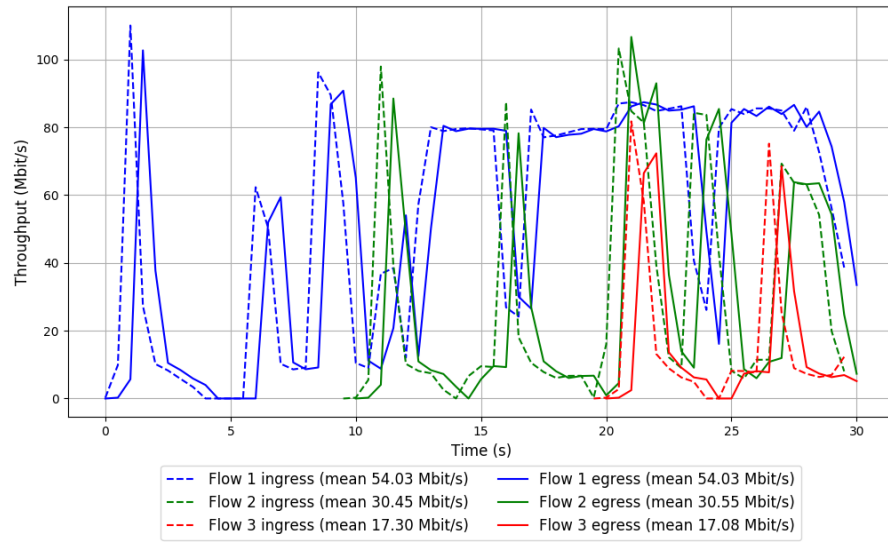
Average throughput: 17.08 Mbit/s

95th percentile per-packet one-way delay: 50.132 ms

Loss rate: 2.30%



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



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-12 19:51:08

End at: 2018-07-12 19:51:38

Local clock offset: -0.197 ms

Remote clock offset: 0.06 ms

# Below is generated by plot.py at 2018-07-12 23:25:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 73.92 Mbit/s

95th percentile per-packet one-way delay: 53.294 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 47.53 Mbit/s

95th percentile per-packet one-way delay: 53.326 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 31.03 Mbit/s

95th percentile per-packet one-way delay: 49.654 ms

Loss rate: 0.32%

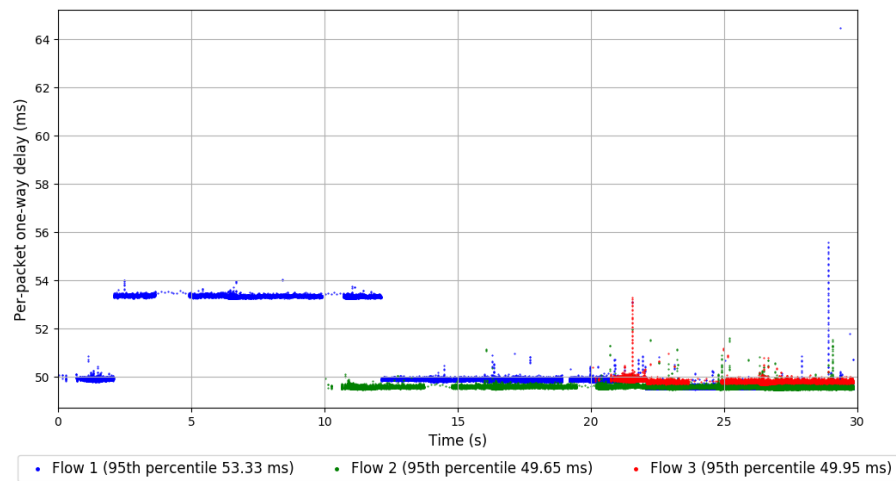
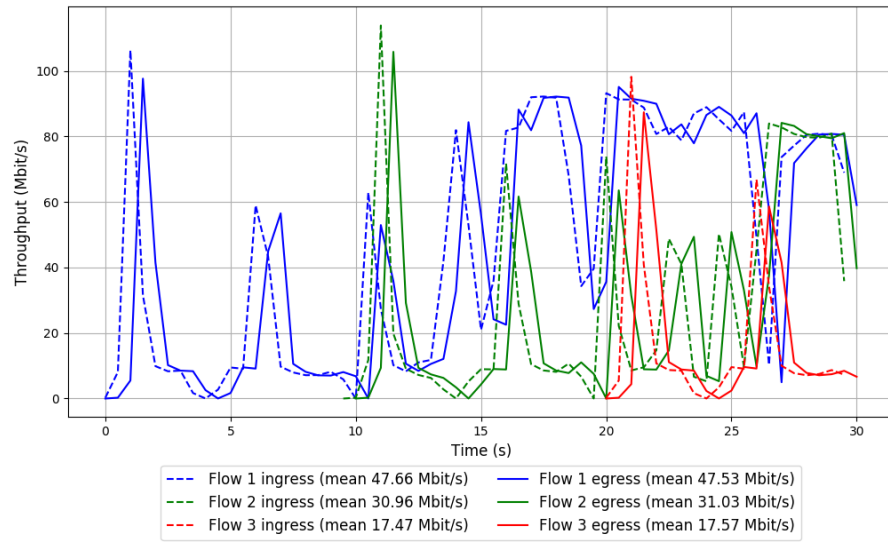
-- Flow 3:

Average throughput: 17.57 Mbit/s

95th percentile per-packet one-way delay: 49.954 ms

Loss rate: 0.48%

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

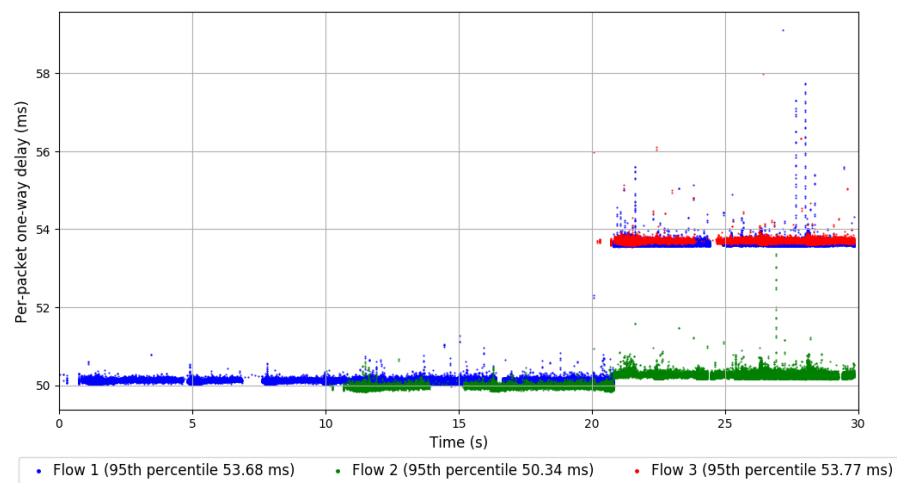
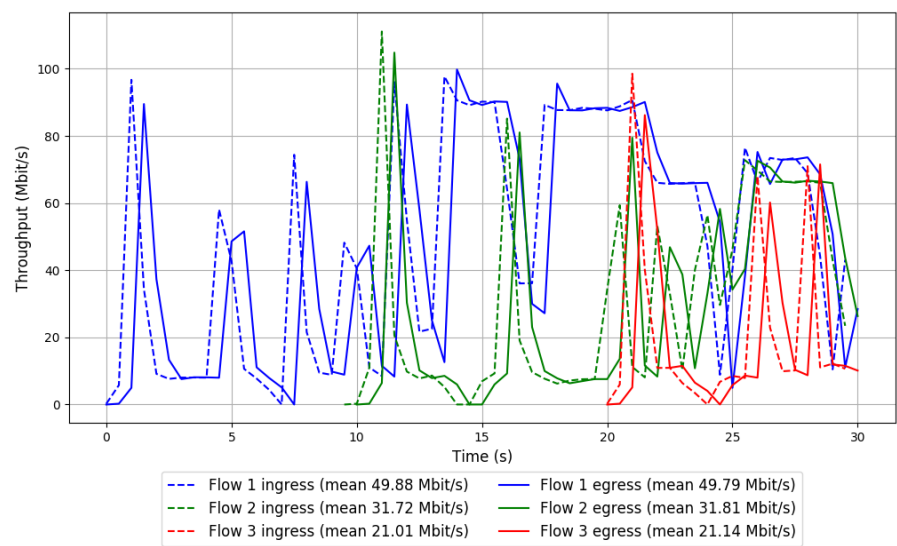


Run 9: Statistics of QUIC Cubic

Start at: 2018-07-12 20:16:19  
End at: 2018-07-12 20:16:49  
Local clock offset: 0.101 ms  
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2018-07-12 23:25:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.88 Mbit/s  
95th percentile per-packet one-way delay: 53.705 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 49.79 Mbit/s  
95th percentile per-packet one-way delay: 53.683 ms  
Loss rate: 0.52%  
-- Flow 2:  
Average throughput: 31.81 Mbit/s  
95th percentile per-packet one-way delay: 50.337 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 21.14 Mbit/s  
95th percentile per-packet one-way delay: 53.774 ms  
Loss rate: 0.51%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-12 20:41:33

End at: 2018-07-12 20:42:03

Local clock offset: 0.029 ms

Remote clock offset: 0.032 ms

# Below is generated by plot.py at 2018-07-12 23:25:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 79.67 Mbit/s

95th percentile per-packet one-way delay: 53.524 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 45.88 Mbit/s

95th percentile per-packet one-way delay: 53.543 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 42.70 Mbit/s

95th percentile per-packet one-way delay: 50.153 ms

Loss rate: 1.03%

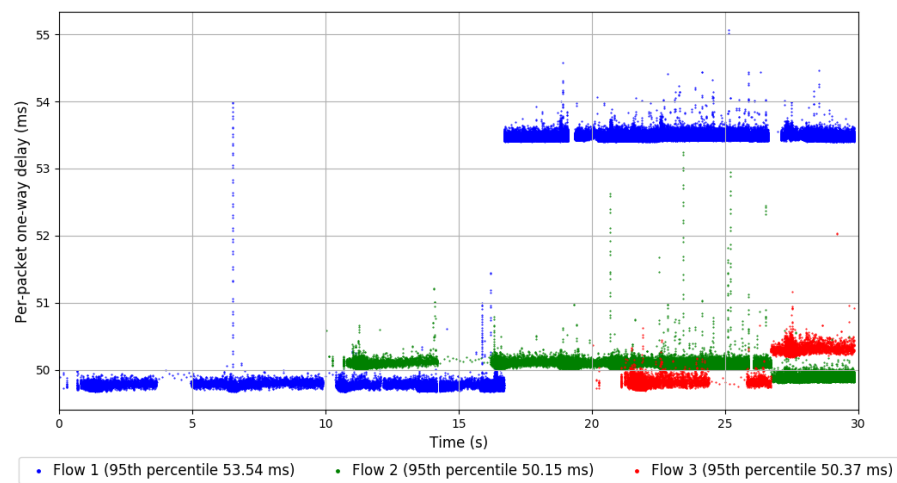
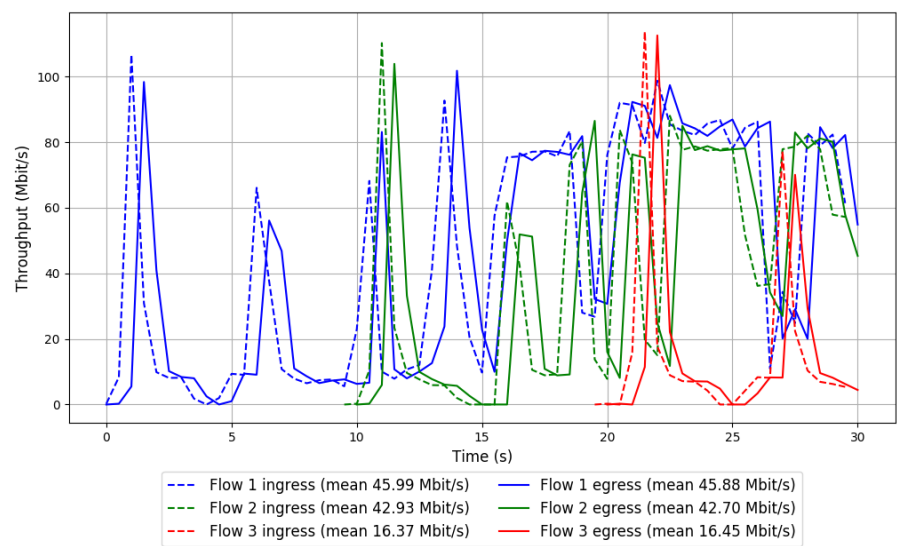
-- Flow 3:

Average throughput: 16.45 Mbit/s

95th percentile per-packet one-way delay: 50.374 ms

Loss rate: 0.47%

Run 10: Report of QUIC Cubic — Data Link



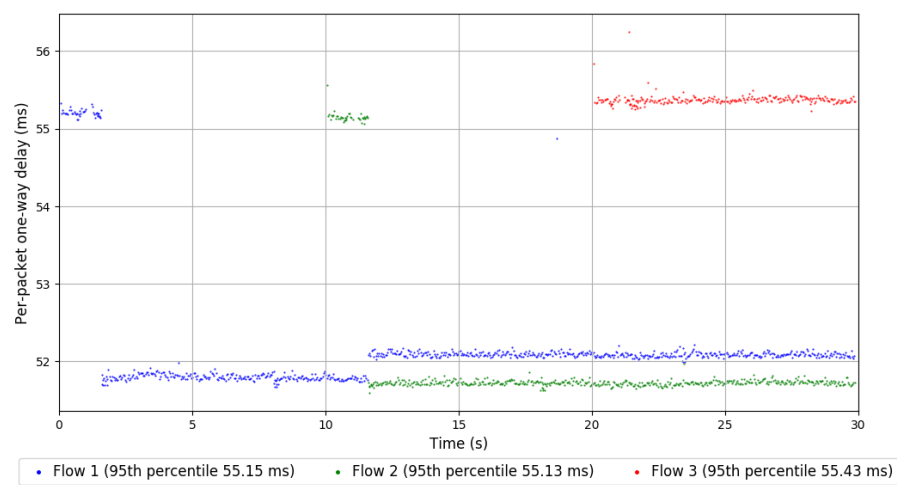
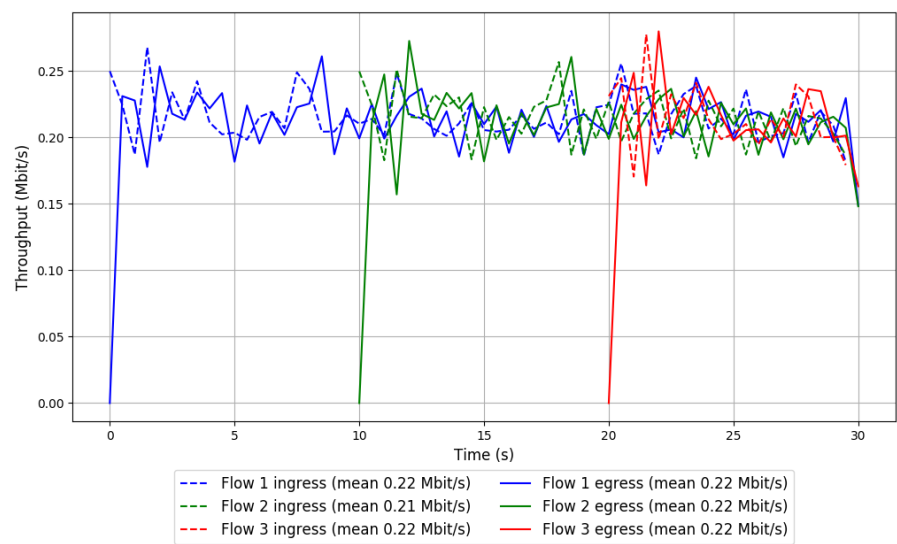
```
Run 1: Statistics of SReAM

Start at: 2018-07-12 16:34:58
End at: 2018-07-12 16:35:28
Local clock offset: -0.028 ms
Remote clock offset: -1.61 ms

# Below is generated by plot.py at 2018-07-12 23:25:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 55.384 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 55.150 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 55.134 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 55.427 ms
Loss rate: 0.73%
```



Run 1: Report of SCReAM — Data Link

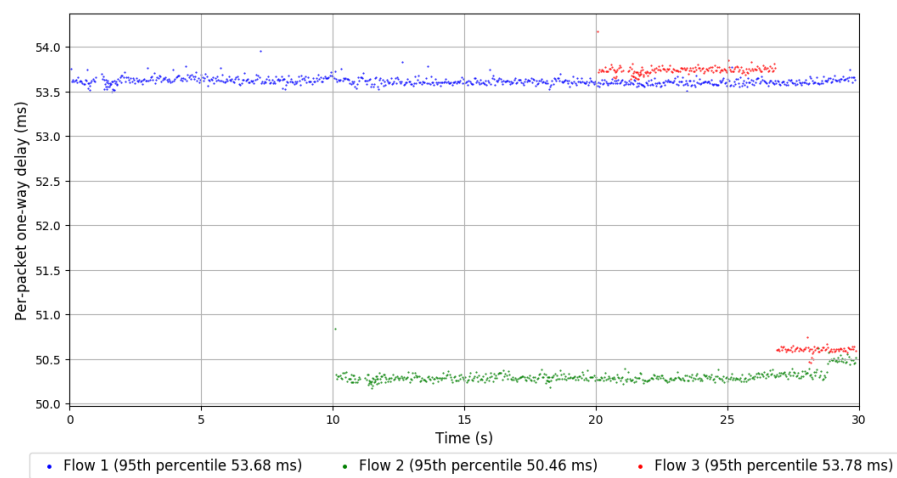
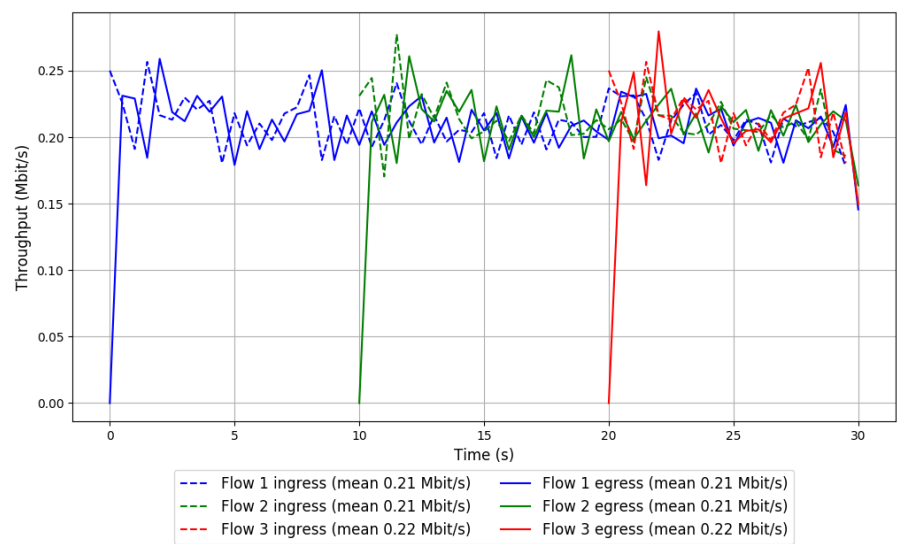


Run 2: Statistics of SReAM

Start at: 2018-07-12 16:59:51  
End at: 2018-07-12 17:00:21  
Local clock offset: -0.059 ms  
Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2018-07-12 23:25:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 53.751 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.677 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 50.456 ms  
Loss rate: 0.43%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 53.785 ms  
Loss rate: 1.09%

Run 2: Report of SCReAM — Data Link

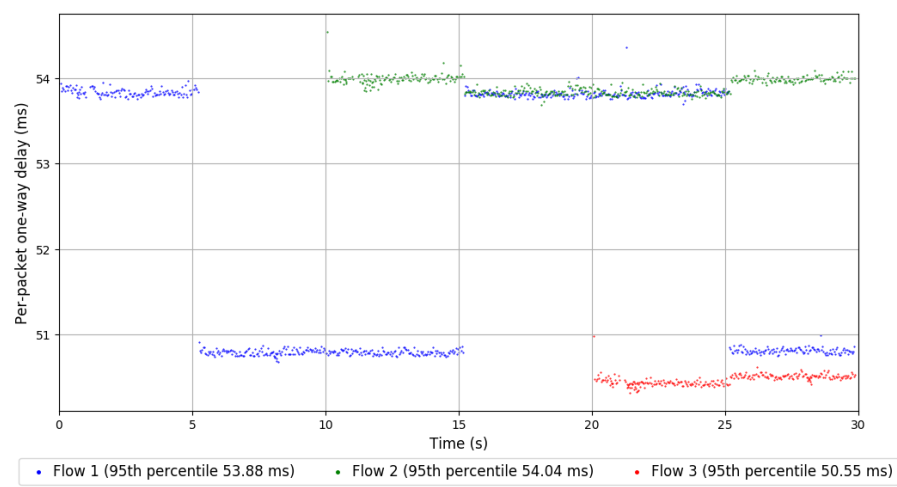
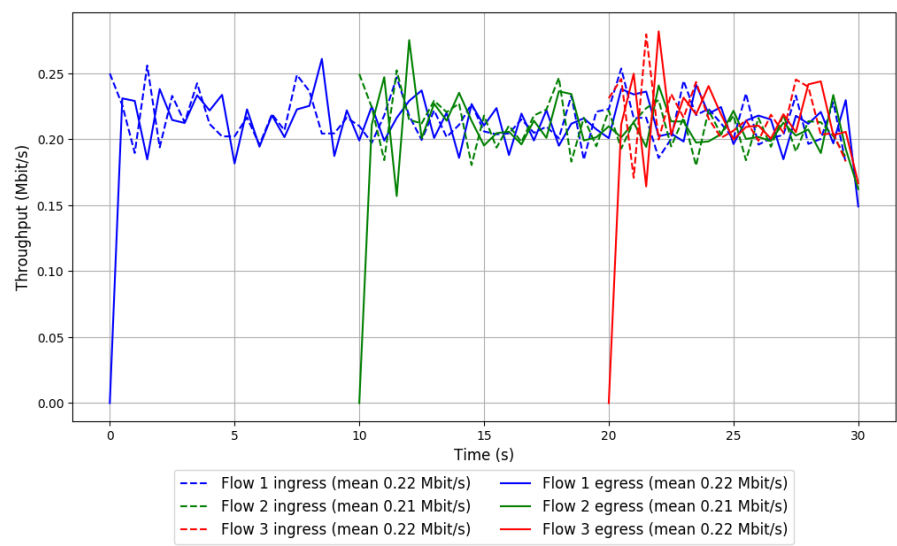


Run 3: Statistics of SReAM

Start at: 2018-07-12 17:27:04  
End at: 2018-07-12 17:27:34  
Local clock offset: 0.044 ms  
Remote clock offset: -0.218 ms

# Below is generated by plot.py at 2018-07-12 23:25:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 54.010 ms  
Loss rate: 0.52%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 53.881 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 54.038 ms  
Loss rate: 0.62%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.553 ms  
Loss rate: 0.74%

Run 3: Report of SReAM — Data Link

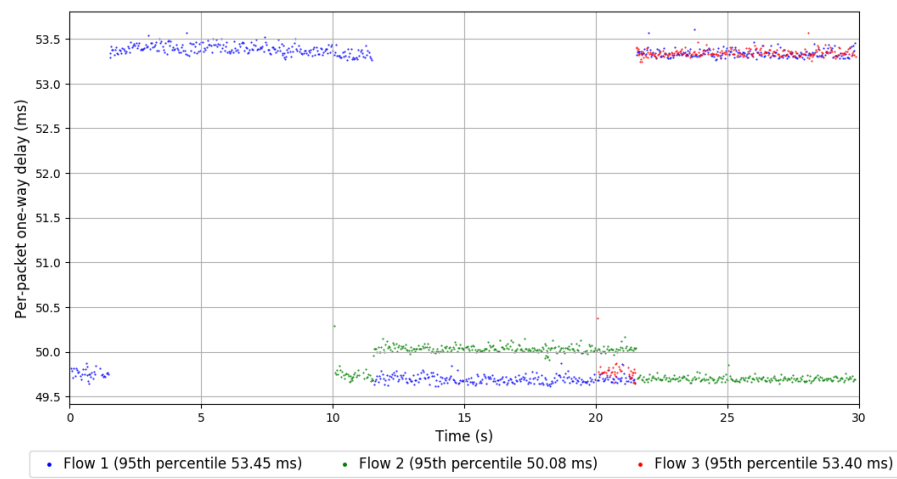
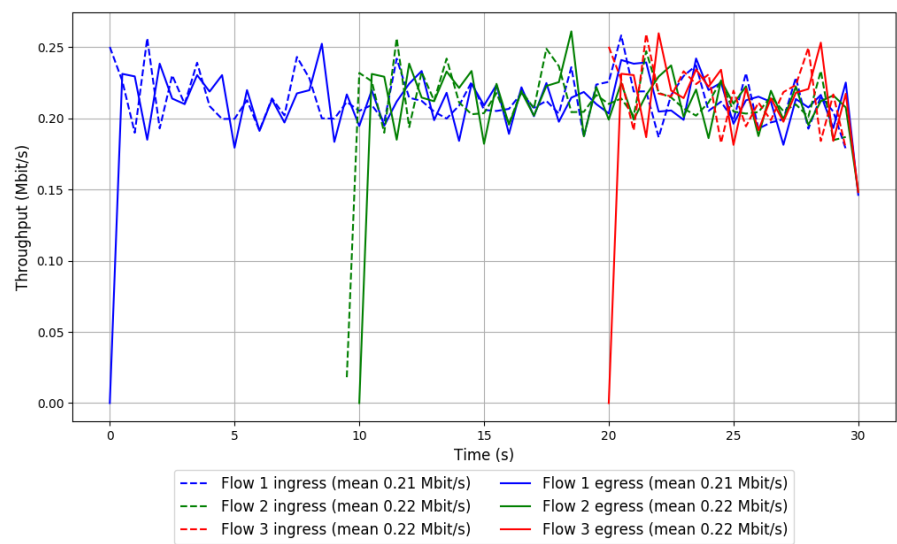


Run 4: Statistics of SReAM

Start at: 2018-07-12 17:54:08  
End at: 2018-07-12 17:54:38  
Local clock offset: -0.415 ms  
Remote clock offset: -0.142 ms

# Below is generated by plot.py at 2018-07-12 23:25:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 53.424 ms  
Loss rate: 0.57%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.449 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.078 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 53.403 ms  
Loss rate: 1.08%

Run 4: Report of SReAM — Data Link



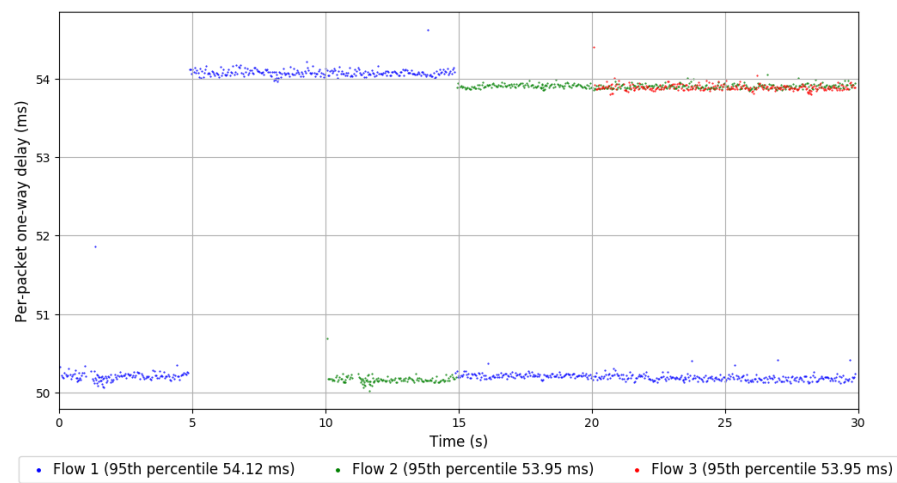
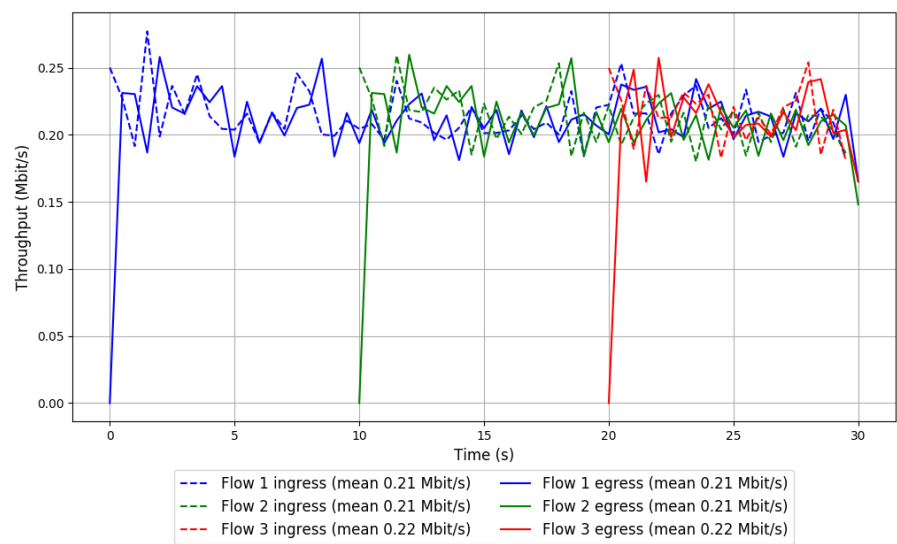
Run 5: Statistics of SReAM

Start at: 2018-07-12 18:18:55  
End at: 2018-07-12 18:19:25  
Local clock offset: 0.125 ms  
Remote clock offset: -0.132 ms

# Below is generated by plot.py at 2018-07-12 23:25:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 54.091 ms  
Loss rate: 0.52%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 54.116 ms  
Loss rate: 0.26%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.946 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 53.953 ms  
Loss rate: 1.09%



Run 5: Report of SReAM — Data Link

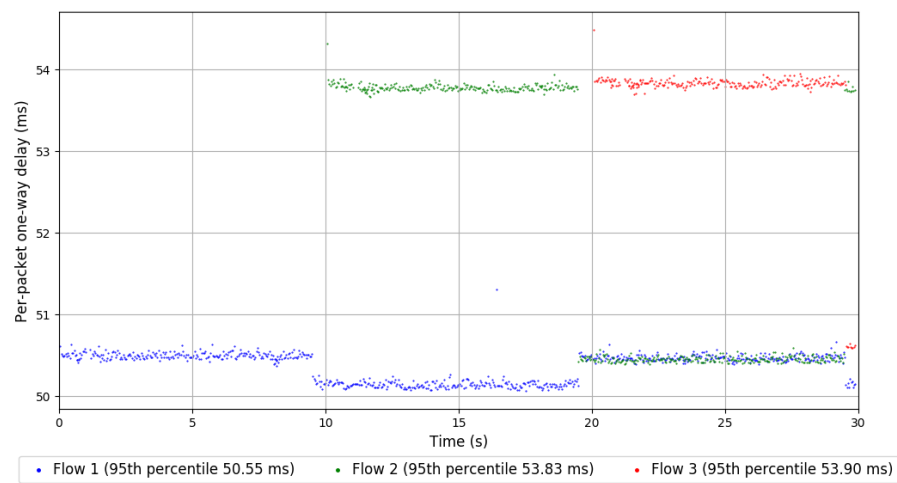
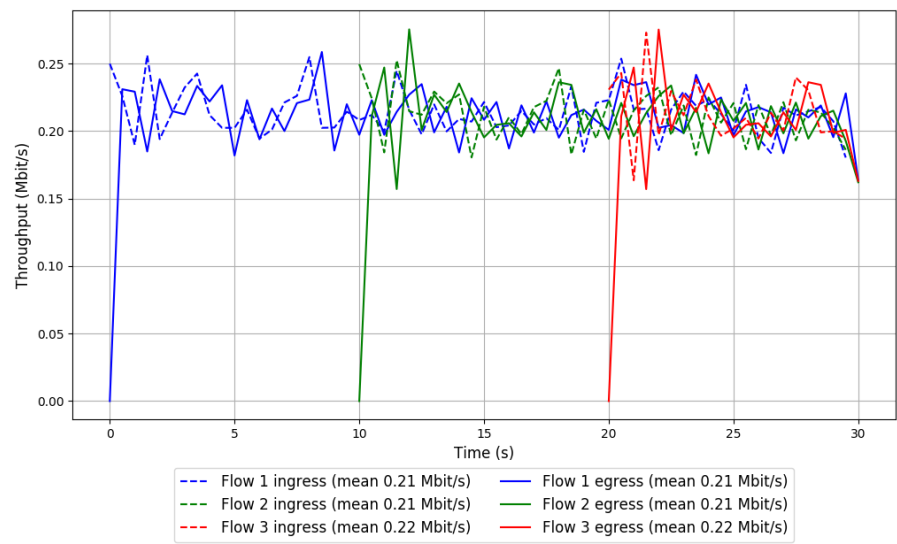


Run 6: Statistics of SReAM

Start at: 2018-07-12 18:44:00  
End at: 2018-07-12 18:44:30  
Local clock offset: -0.011 ms  
Remote clock offset: -0.213 ms

# Below is generated by plot.py at 2018-07-12 23:25:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 53.855 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 50.547 ms  
Loss rate: 0.26%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.825 ms  
Loss rate: 0.62%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 53.901 ms  
Loss rate: 1.09%

Run 6: Report of SReAM — Data Link

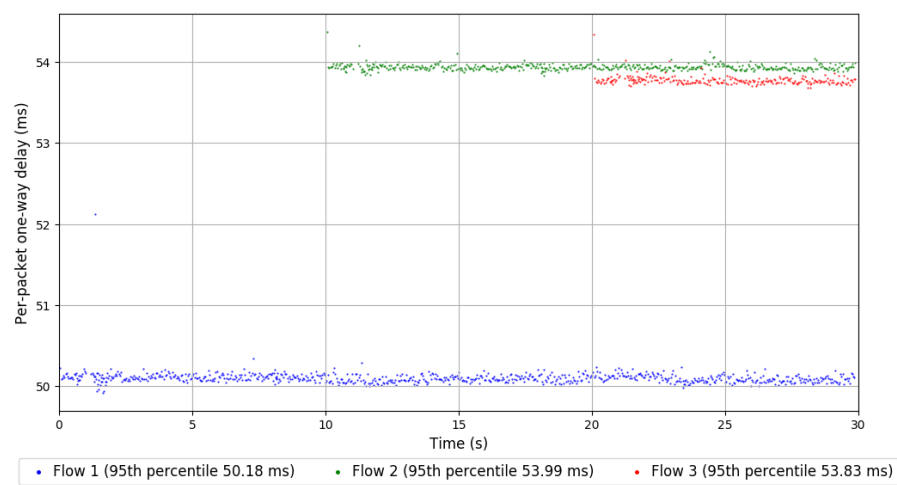
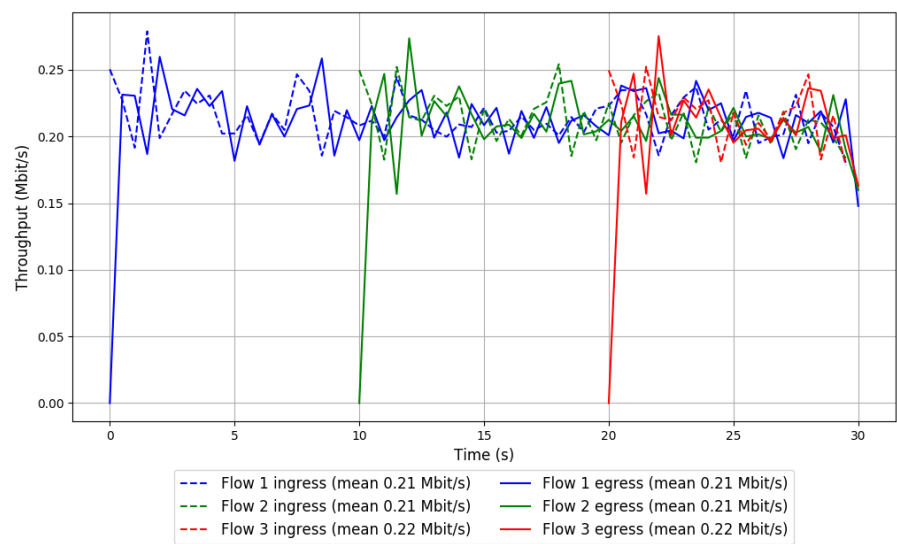


Run 7: Statistics of SReAM

Start at: 2018-07-12 19:09:30  
End at: 2018-07-12 19:10:00  
Local clock offset: 0.061 ms  
Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2018-07-12 23:25:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 53.973 ms  
Loss rate: 0.57%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 50.178 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.995 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 53.833 ms  
Loss rate: 1.08%

Run 7: Report of SReAM — Data Link

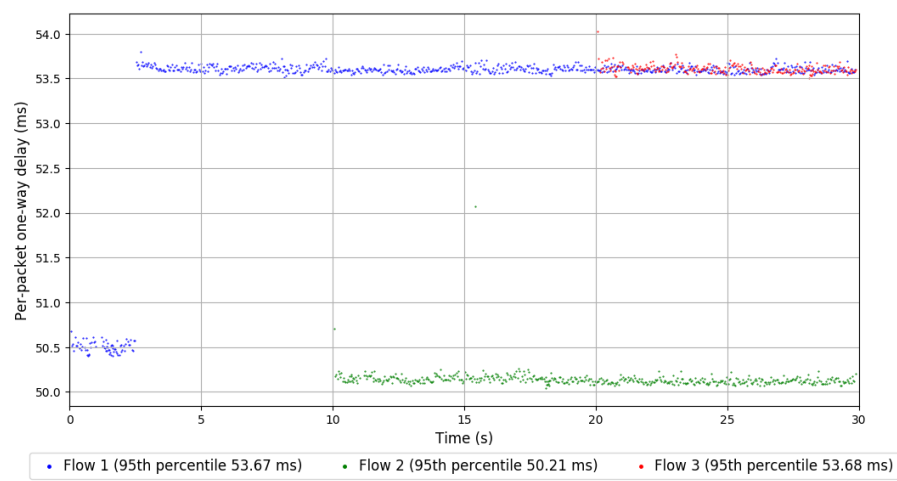
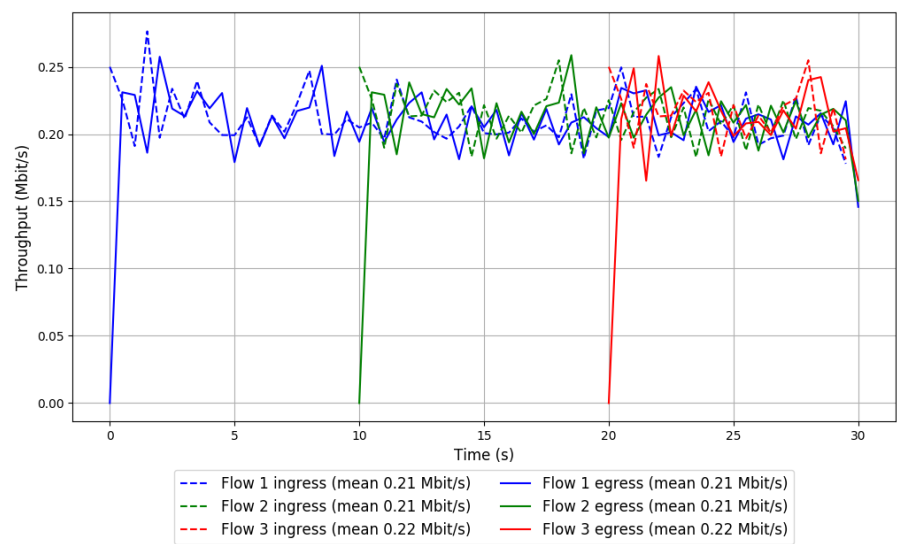


Run 8: Statistics of SReAM

Start at: 2018-07-12 19:34:47  
End at: 2018-07-12 19:35:17  
Local clock offset: -0.071 ms  
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2018-07-12 23:25:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 53.663 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.668 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 50.207 ms  
Loss rate: 0.62%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 53.684 ms  
Loss rate: 1.09%

Run 8: Report of SReAM — Data Link



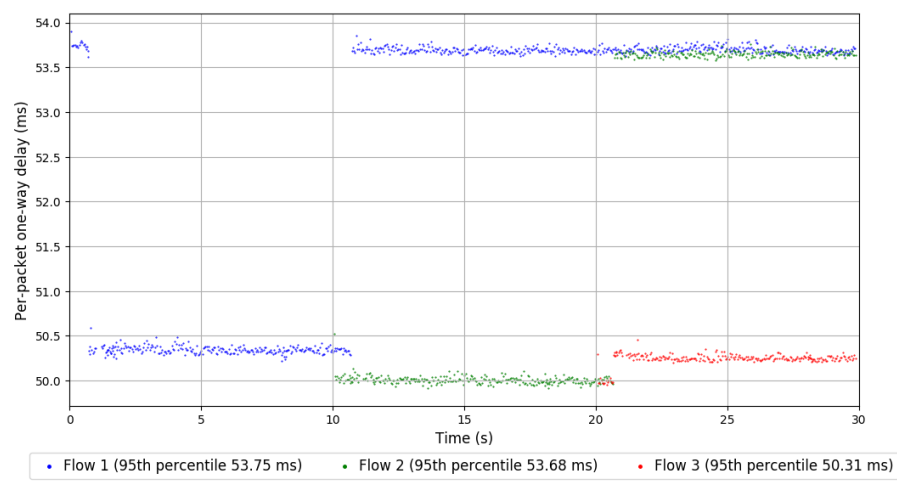
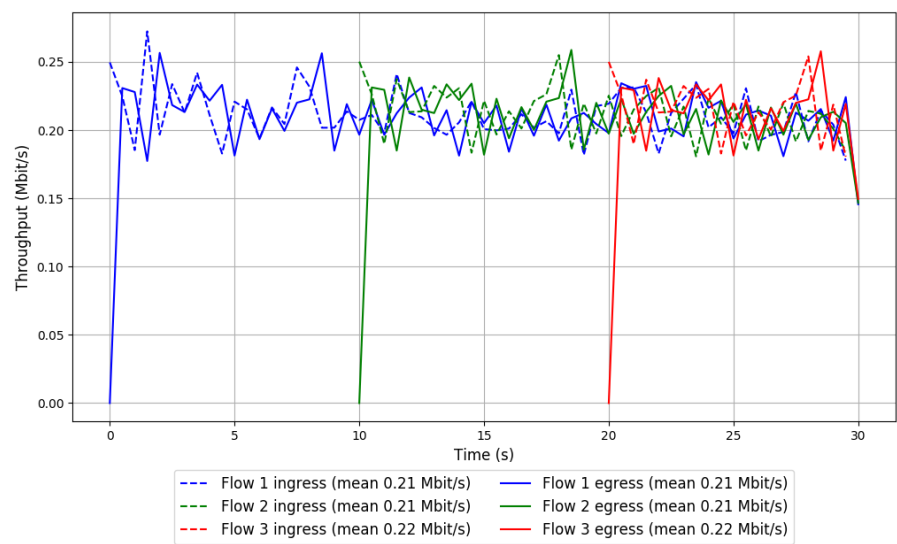
Run 9: Statistics of SReAM

Start at: 2018-07-12 20:00:19  
End at: 2018-07-12 20:00:49  
Local clock offset: -0.048 ms  
Remote clock offset: -0.145 ms

# Below is generated by plot.py at 2018-07-12 23:25:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 53.734 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.752 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 53.683 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.313 ms  
Loss rate: 1.09%



Run 9: Report of SReAM — Data Link

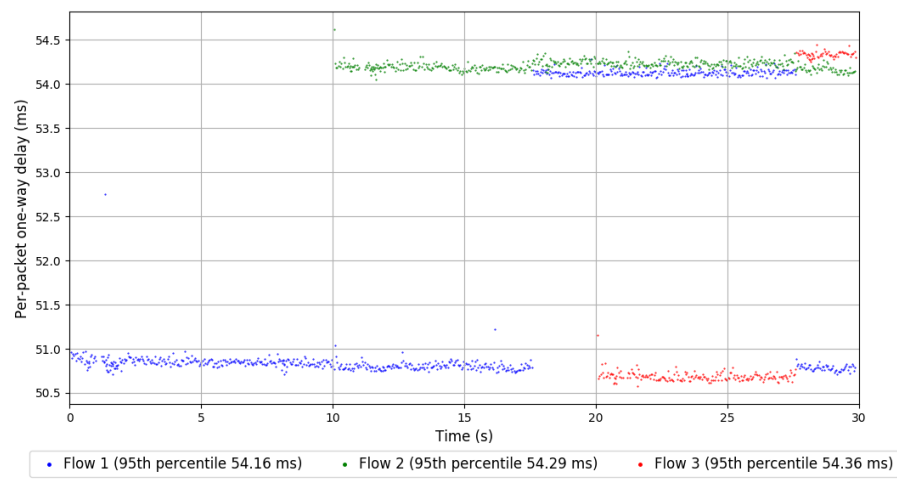
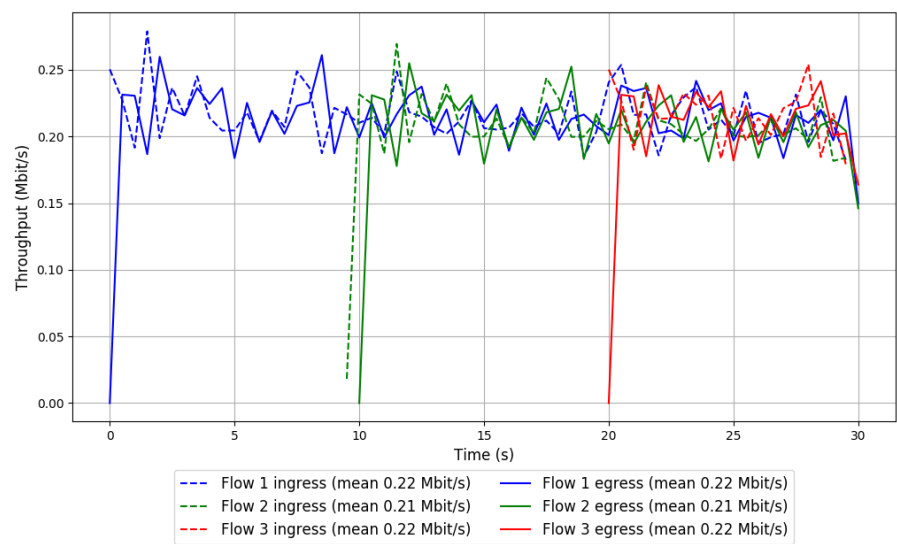


Run 10: Statistics of SReAM

Start at: 2018-07-12 20:25:22  
End at: 2018-07-12 20:25:52  
Local clock offset: 0.138 ms  
Remote clock offset: -0.453 ms

# Below is generated by plot.py at 2018-07-12 23:25:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 54.296 ms  
Loss rate: 0.57%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 54.158 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 54.292 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 54.360 ms  
Loss rate: 1.08%

Run 10: Report of SCReAM — Data Link

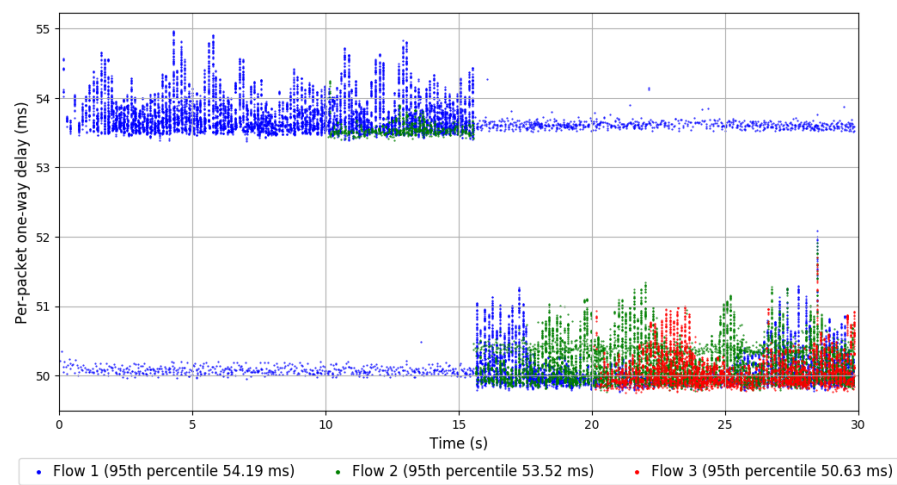
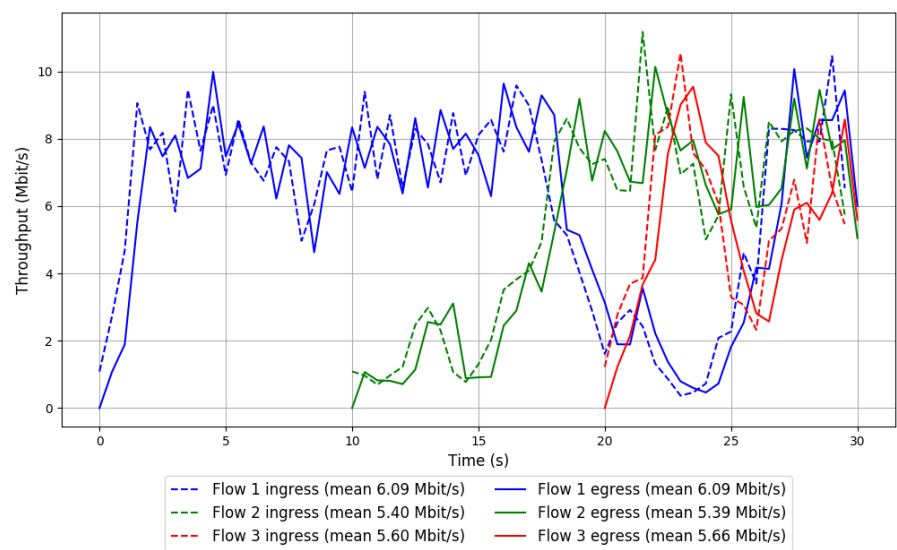


Run 1: Statistics of Sprout

Start at: 2018-07-12 16:37:54  
End at: 2018-07-12 16:38:24  
Local clock offset: -0.182 ms  
Remote clock offset: -0.144 ms

# Below is generated by plot.py at 2018-07-12 23:25:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 11.52 Mbit/s  
95th percentile per-packet one-way delay: 54.023 ms  
Loss rate: 0.47%  
-- Flow 1:  
Average throughput: 6.09 Mbit/s  
95th percentile per-packet one-way delay: 54.190 ms  
Loss rate: 0.42%  
-- Flow 2:  
Average throughput: 5.39 Mbit/s  
95th percentile per-packet one-way delay: 53.518 ms  
Loss rate: 0.79%  
-- Flow 3:  
Average throughput: 5.66 Mbit/s  
95th percentile per-packet one-way delay: 50.626 ms  
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

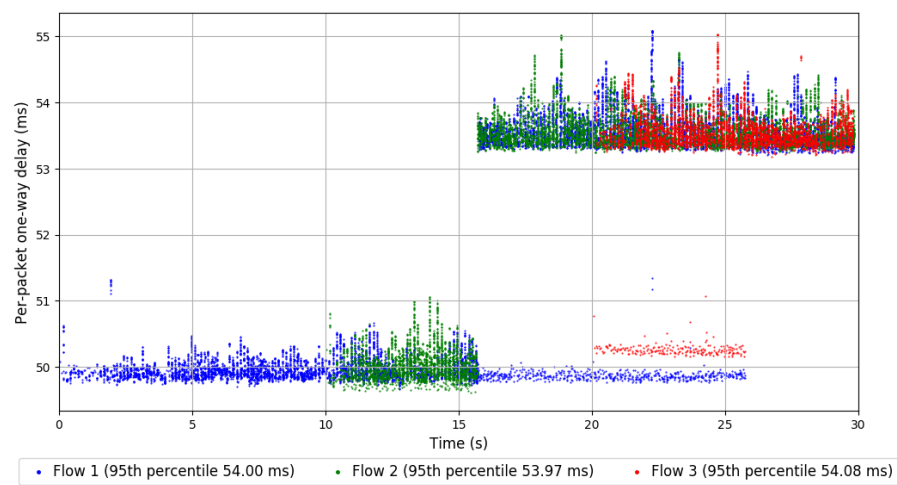
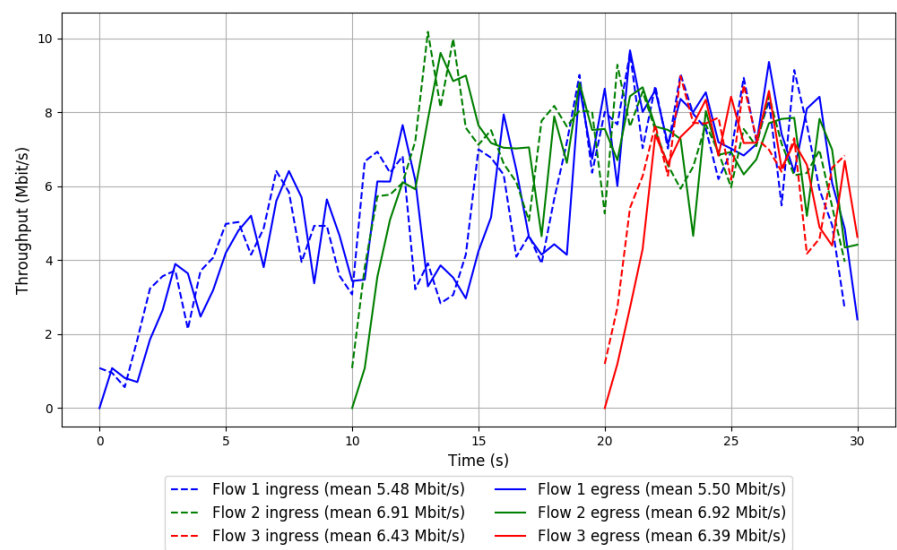


Run 2: Statistics of Sprout

Start at: 2018-07-12 17:02:44  
End at: 2018-07-12 17:03:14  
Local clock offset: -0.21 ms  
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2018-07-12 23:25:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.18 Mbit/s  
95th percentile per-packet one-way delay: 54.005 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 5.50 Mbit/s  
95th percentile per-packet one-way delay: 54.004 ms  
Loss rate: 0.15%  
-- Flow 2:  
Average throughput: 6.92 Mbit/s  
95th percentile per-packet one-way delay: 53.973 ms  
Loss rate: 0.32%  
-- Flow 3:  
Average throughput: 6.39 Mbit/s  
95th percentile per-packet one-way delay: 54.078 ms  
Loss rate: 1.74%

Run 2: Report of Sprout — Data Link



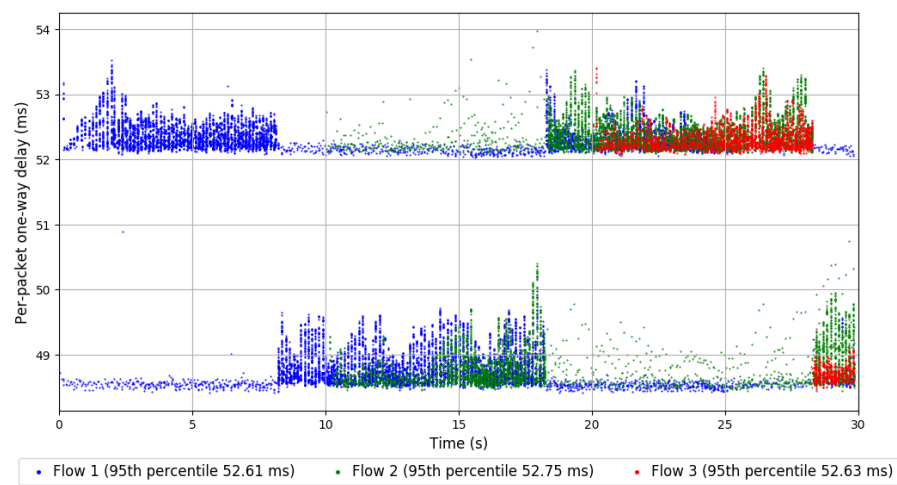
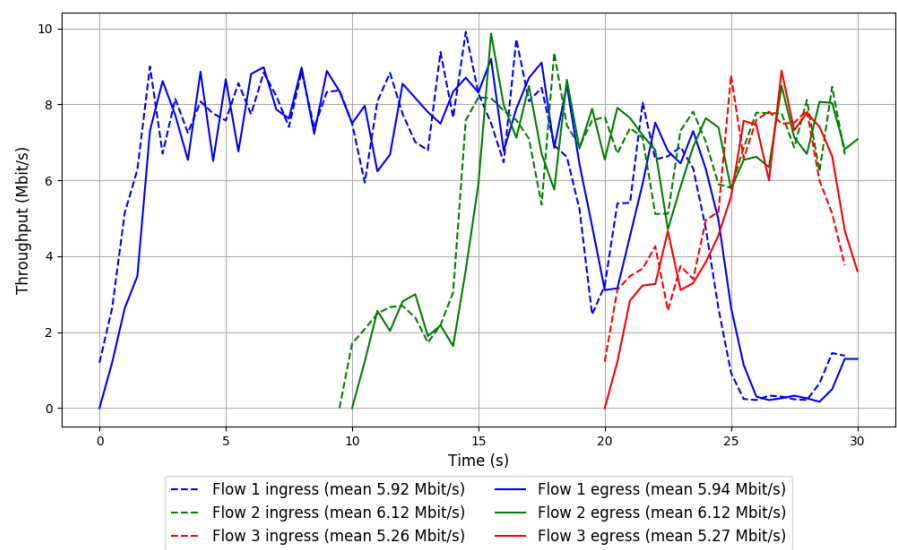
### Run 3: Statistics of Sprout

Start at: 2018-07-12 17:30:21  
End at: 2018-07-12 17:30:51  
Local clock offset: -0.192 ms  
Remote clock offset: 1.186 ms

```
# Below is generated by plot.py at 2018-07-12 23:25:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.72 Mbit/s
95th percentile per-packet one-way delay: 52.663 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 5.94 Mbit/s
95th percentile per-packet one-way delay: 52.609 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 6.12 Mbit/s
95th percentile per-packet one-way delay: 52.748 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 5.27 Mbit/s
95th percentile per-packet one-way delay: 52.633 ms
Loss rate: 1.08%
```



Run 3: Report of Sprout — Data Link

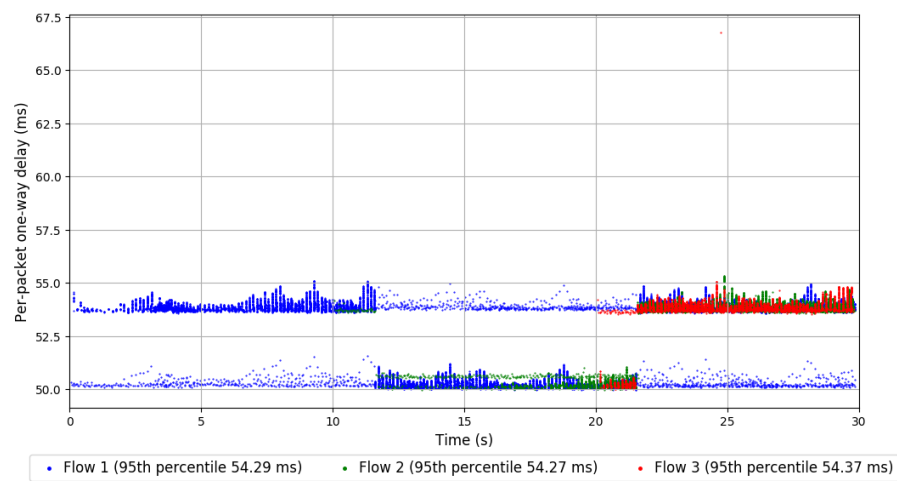
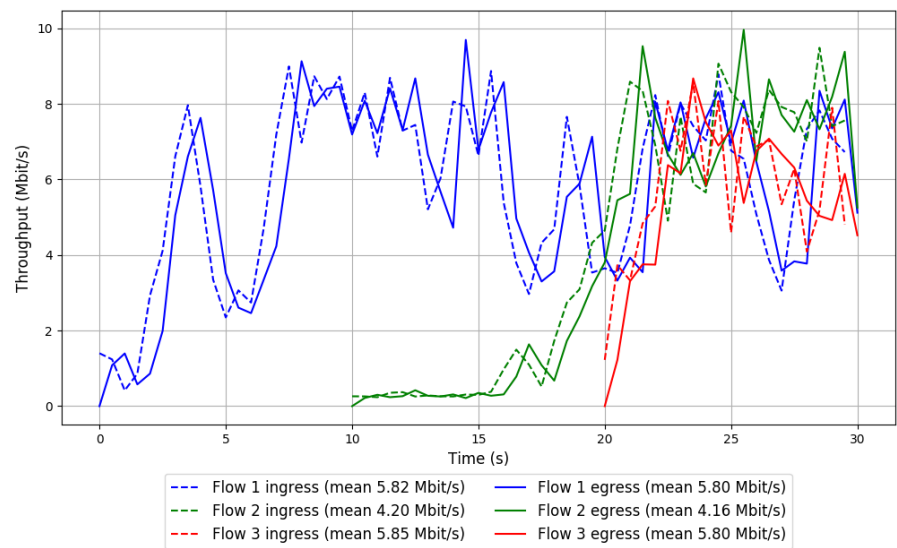


#### Run 4: Statistics of Sprout

Start at: 2018-07-12 17:57:08  
End at: 2018-07-12 17:57:38  
Local clock offset: -0.053 ms  
Remote clock offset: -0.171 ms

```
# Below is generated by plot.py at 2018-07-12 23:25:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.47 Mbit/s
95th percentile per-packet one-way delay: 54.300 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 5.80 Mbit/s
95th percentile per-packet one-way delay: 54.291 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 4.16 Mbit/s
95th percentile per-packet one-way delay: 54.271 ms
Loss rate: 1.38%
-- Flow 3:
Average throughput: 5.80 Mbit/s
95th percentile per-packet one-way delay: 54.366 ms
Loss rate: 1.98%
```

Run 4: Report of Sprout — Data Link

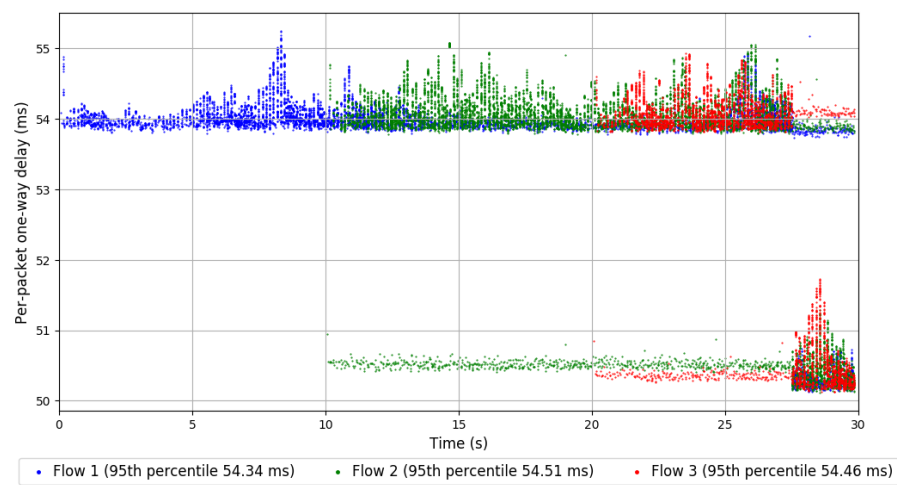
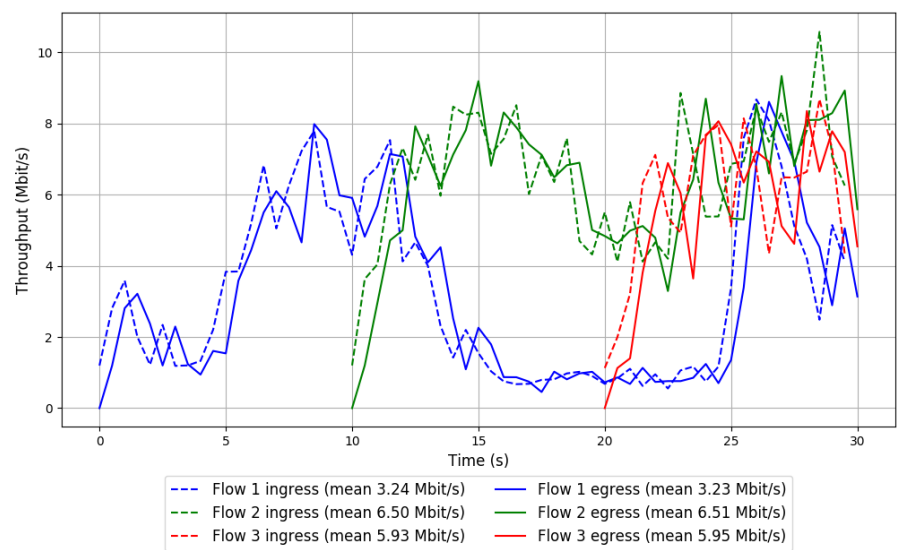


Run 5: Statistics of Sprout

Start at: 2018-07-12 18:21:52  
End at: 2018-07-12 18:22:22  
Local clock offset: 0.259 ms  
Remote clock offset: -0.048 ms

```
# Below is generated by plot.py at 2018-07-12 23:25:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.51 Mbit/s
95th percentile per-packet one-way delay: 54.457 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 3.23 Mbit/s
95th percentile per-packet one-way delay: 54.340 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 6.51 Mbit/s
95th percentile per-packet one-way delay: 54.506 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 5.95 Mbit/s
95th percentile per-packet one-way delay: 54.457 ms
Loss rate: 0.66%
```

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-07-12 18:46:59

End at: 2018-07-12 18:47:29

Local clock offset: 0.046 ms

Remote clock offset: 0.027 ms

# Below is generated by plot.py at 2018-07-12 23:25:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 12.82 Mbit/s

95th percentile per-packet one-way delay: 54.344 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 6.21 Mbit/s

95th percentile per-packet one-way delay: 54.295 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 6.41 Mbit/s

95th percentile per-packet one-way delay: 54.338 ms

Loss rate: 0.57%

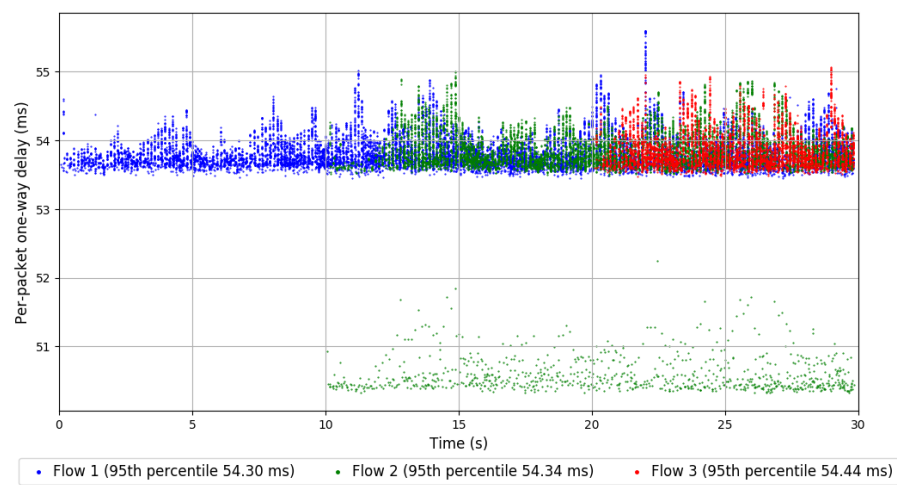
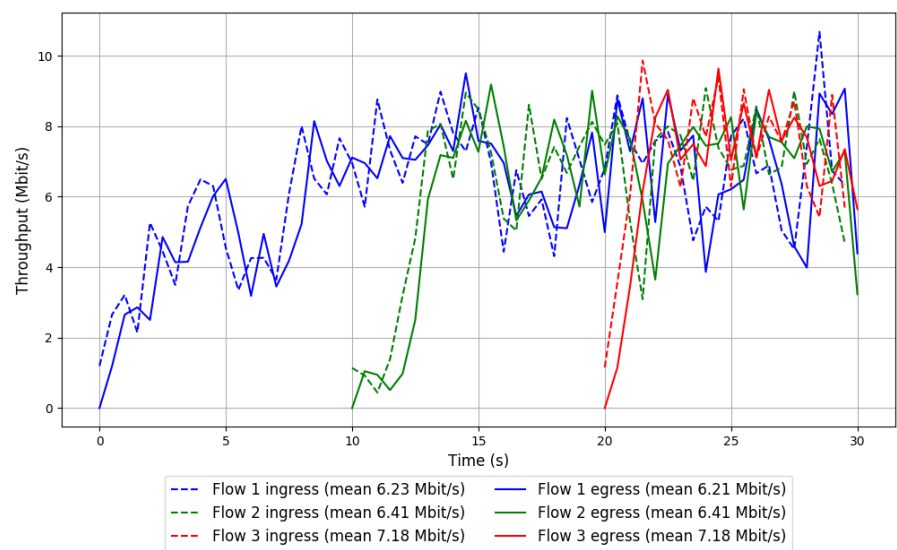
-- Flow 3:

Average throughput: 7.18 Mbit/s

95th percentile per-packet one-way delay: 54.440 ms

Loss rate: 1.12%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-07-12 19:12:26

End at: 2018-07-12 19:12:56

Local clock offset: 0.296 ms

Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2018-07-12 23:25:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 12.72 Mbit/s

95th percentile per-packet one-way delay: 54.430 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 6.75 Mbit/s

95th percentile per-packet one-way delay: 54.328 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 5.56 Mbit/s

95th percentile per-packet one-way delay: 54.588 ms

Loss rate: 0.69%

-- Flow 3:

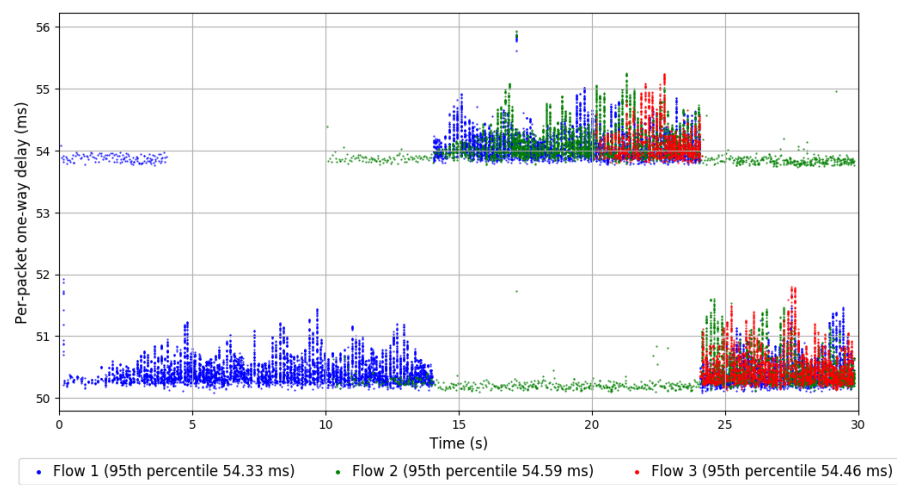
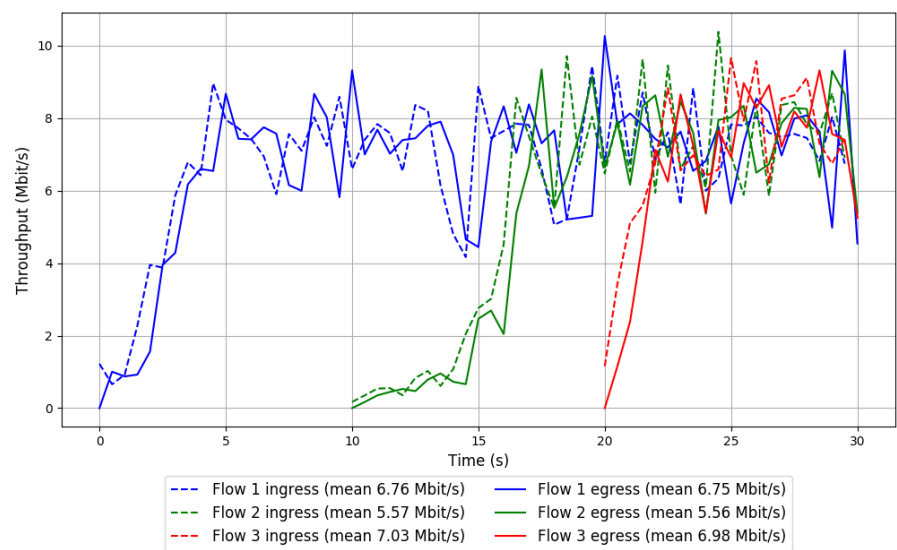
Average throughput: 6.98 Mbit/s

95th percentile per-packet one-way delay: 54.461 ms

Loss rate: 1.68%



Run 7: Report of Sprout — Data Link

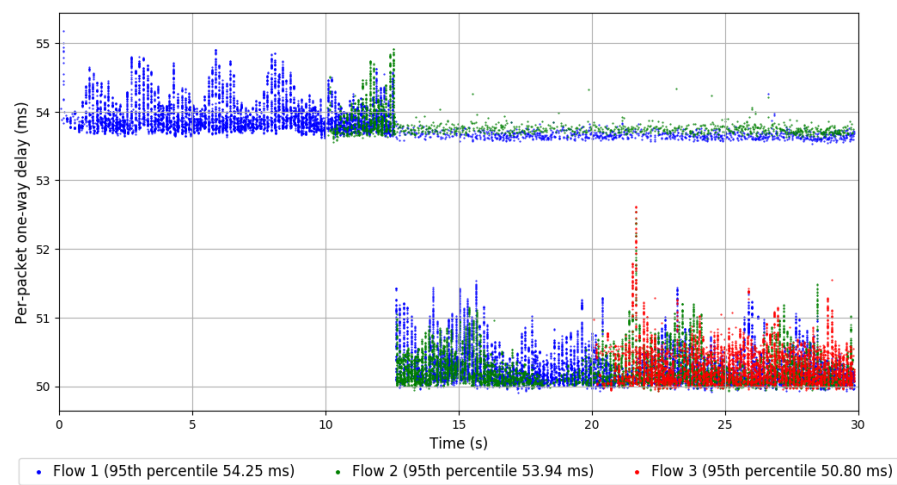
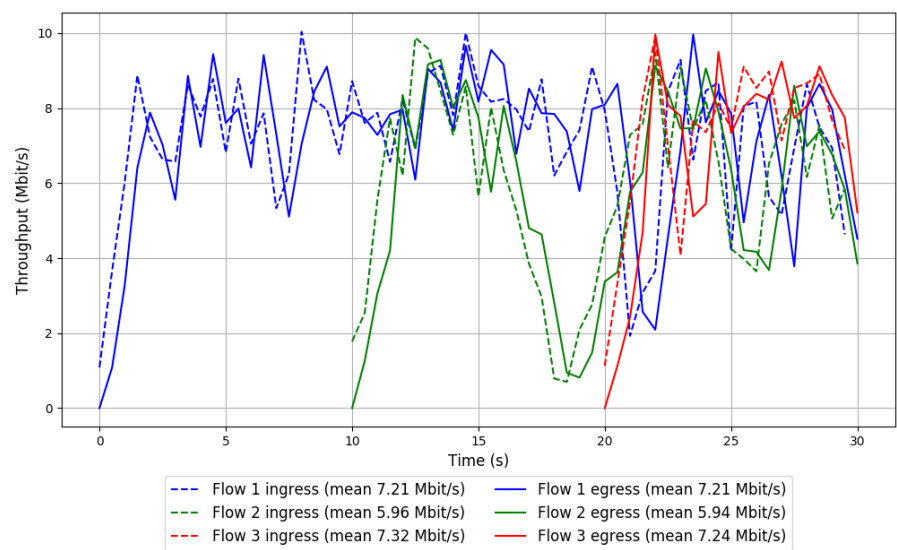


Run 8: Statistics of Sprout

Start at: 2018-07-12 19:37:47  
End at: 2018-07-12 19:38:17  
Local clock offset: 0.031 ms  
Remote clock offset: -0.096 ms

```
# Below is generated by plot.py at 2018-07-12 23:25:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.53 Mbit/s
95th percentile per-packet one-way delay: 54.118 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 7.21 Mbit/s
95th percentile per-packet one-way delay: 54.249 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 5.94 Mbit/s
95th percentile per-packet one-way delay: 53.936 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 7.24 Mbit/s
95th percentile per-packet one-way delay: 50.801 ms
Loss rate: 1.81%
```

Run 8: Report of Sprout — Data Link

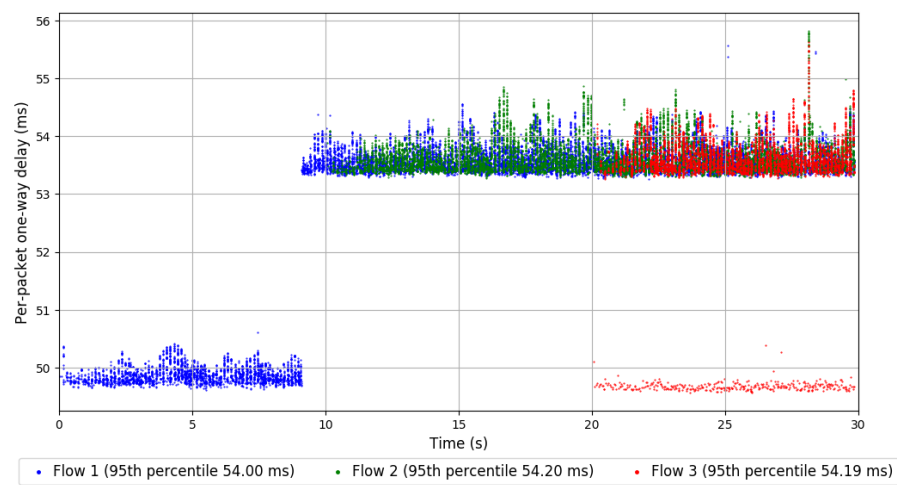
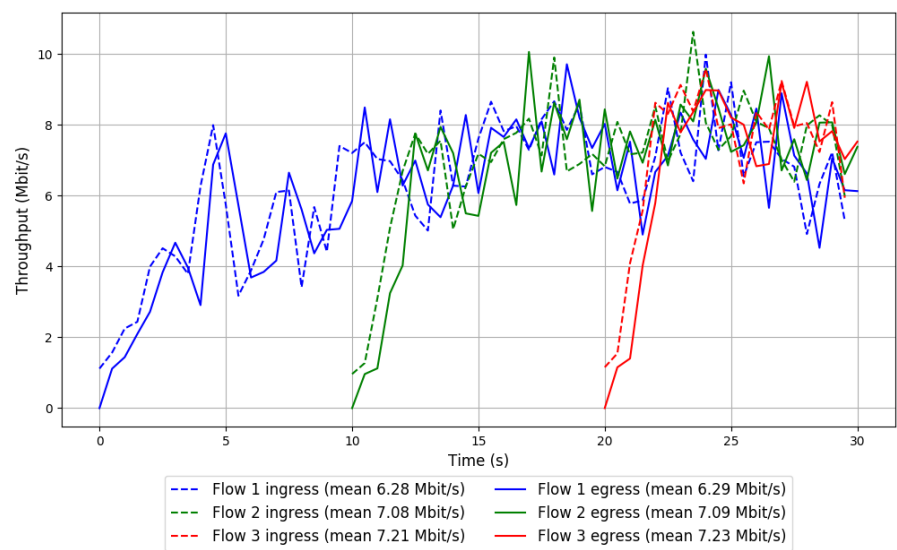


Run 9: Statistics of Sprout

Start at: 2018-07-12 20:03:11  
End at: 2018-07-12 20:03:41  
Local clock offset: -0.156 ms  
Remote clock offset: 0.005 ms

```
# Below is generated by plot.py at 2018-07-12 23:25:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.36 Mbit/s
95th percentile per-packet one-way delay: 54.097 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 6.29 Mbit/s
95th percentile per-packet one-way delay: 53.997 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 7.09 Mbit/s
95th percentile per-packet one-way delay: 54.199 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 7.23 Mbit/s
95th percentile per-packet one-way delay: 54.191 ms
Loss rate: 0.49%
```

Run 9: Report of Sprout — Data Link

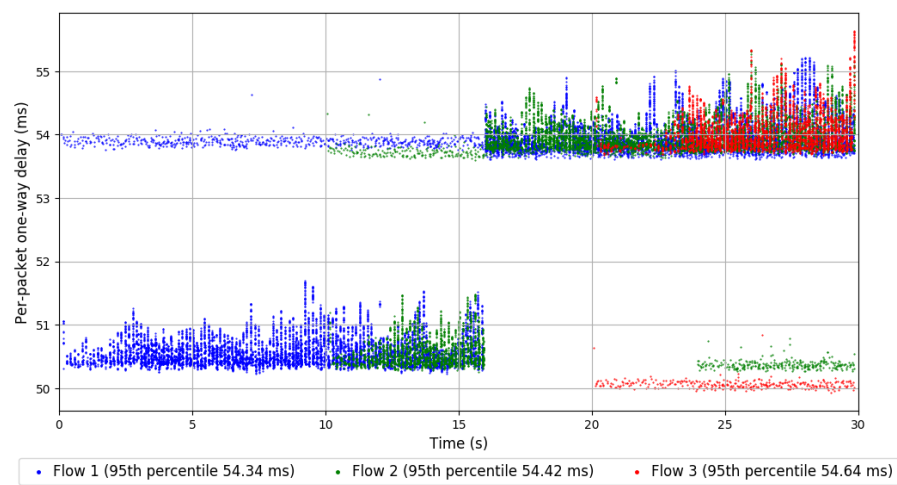
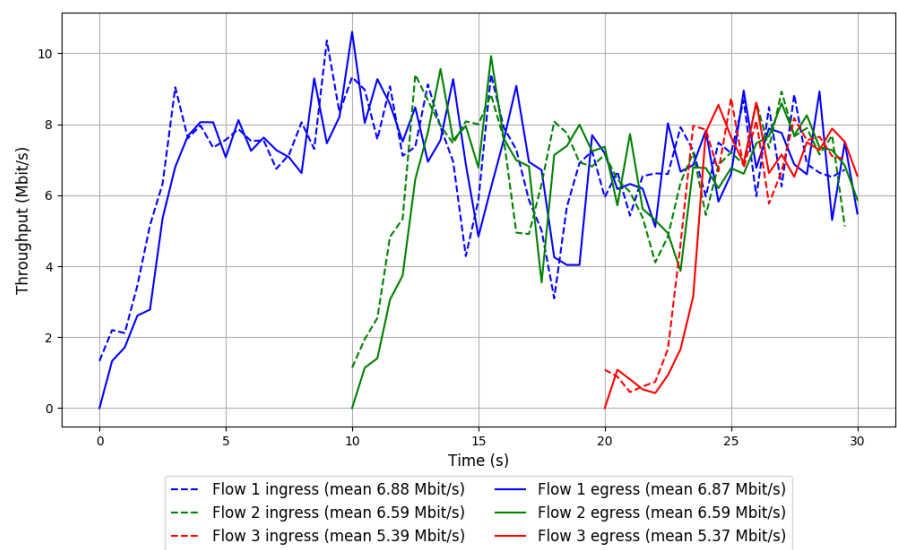


Run 10: Statistics of Sprout

Start at: 2018-07-12 20:28:24  
End at: 2018-07-12 20:28:54  
Local clock offset: -0.006 ms  
Remote clock offset: -0.222 ms

```
# Below is generated by plot.py at 2018-07-12 23:25:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.01 Mbit/s
95th percentile per-packet one-way delay: 54.439 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 6.87 Mbit/s
95th percentile per-packet one-way delay: 54.342 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 6.59 Mbit/s
95th percentile per-packet one-way delay: 54.420 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 5.37 Mbit/s
95th percentile per-packet one-way delay: 54.643 ms
Loss rate: 0.99%
```

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-07-12 16:51:59

End at: 2018-07-12 16:52:29

Local clock offset: -0.07 ms

Remote clock offset: -1.4 ms

# Below is generated by plot.py at 2018-07-12 23:30:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 255.06 Mbit/s

95th percentile per-packet one-way delay: 54.952 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 241.12 Mbit/s

95th percentile per-packet one-way delay: 54.954 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 14.06 Mbit/s

95th percentile per-packet one-way delay: 54.913 ms

Loss rate: 0.54%

-- Flow 3:

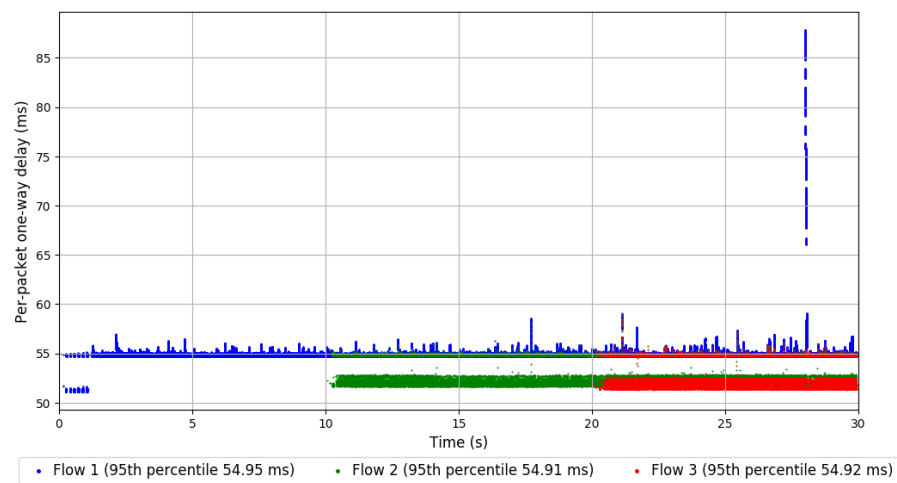
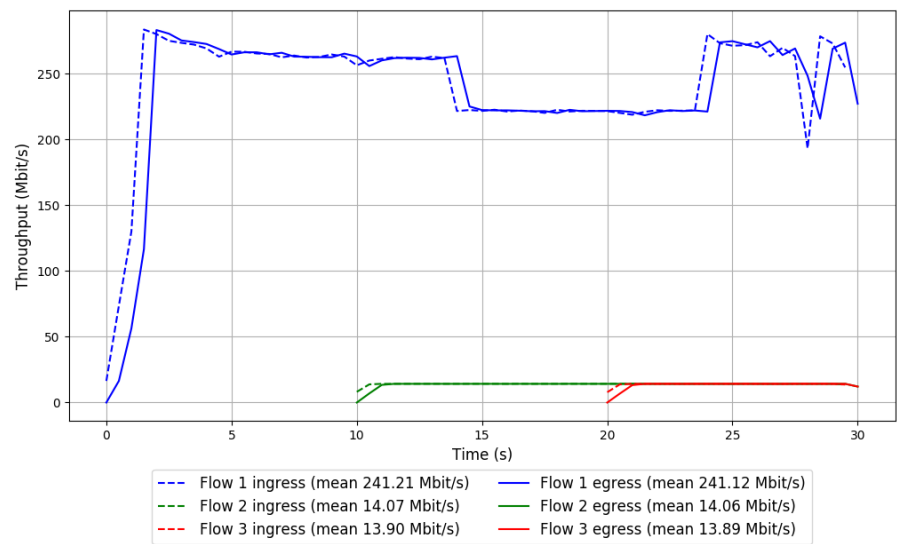
Average throughput: 13.89 Mbit/s

95th percentile per-packet one-way delay: 54.916 ms

Loss rate: 1.11%



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

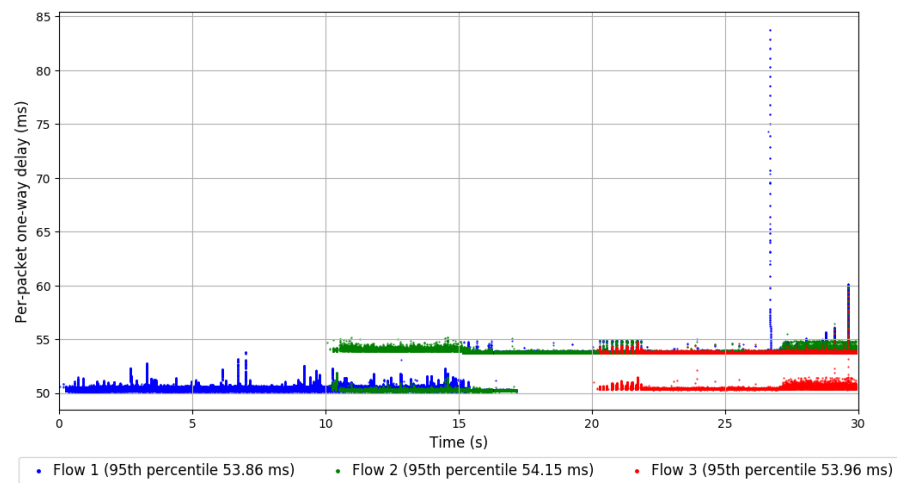
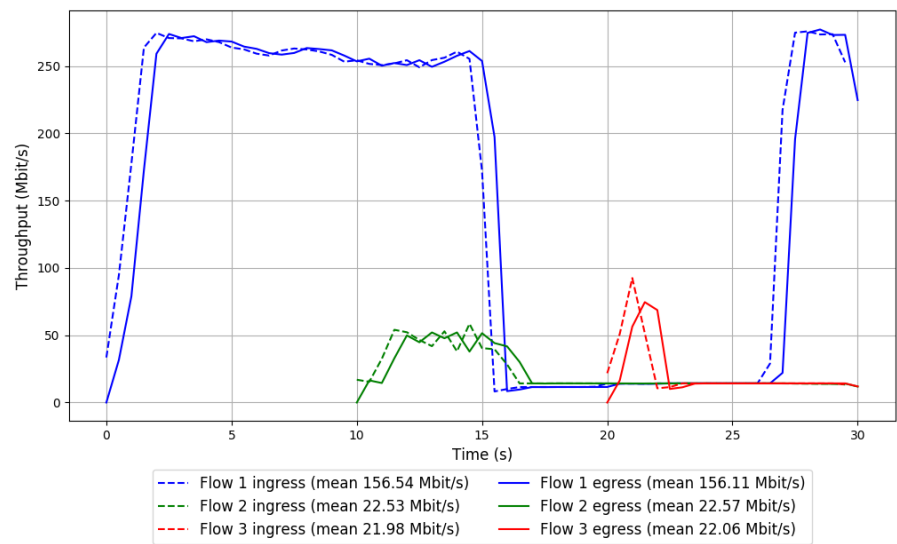


Run 2: Statistics of TaoVA-100x

Start at: 2018-07-12 17:18:33  
End at: 2018-07-12 17:19:03  
Local clock offset: 0.101 ms  
Remote clock offset: -0.204 ms

# Below is generated by plot.py at 2018-07-12 23:30:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 178.39 Mbit/s  
95th percentile per-packet one-way delay: 53.899 ms  
Loss rate: 0.60%  
-- Flow 1:  
Average throughput: 156.11 Mbit/s  
95th percentile per-packet one-way delay: 53.863 ms  
Loss rate: 0.62%  
-- Flow 2:  
Average throughput: 22.57 Mbit/s  
95th percentile per-packet one-way delay: 54.153 ms  
Loss rate: 0.33%  
-- Flow 3:  
Average throughput: 22.06 Mbit/s  
95th percentile per-packet one-way delay: 53.959 ms  
Loss rate: 0.70%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-07-12 17:46:04

End at: 2018-07-12 17:46:34

Local clock offset: 0.268 ms

Remote clock offset: 0.413 ms

# Below is generated by plot.py at 2018-07-12 23:30:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 264.40 Mbit/s

95th percentile per-packet one-way delay: 53.438 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 124.96 Mbit/s

95th percentile per-packet one-way delay: 51.898 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 202.93 Mbit/s

95th percentile per-packet one-way delay: 53.816 ms

Loss rate: 0.02%

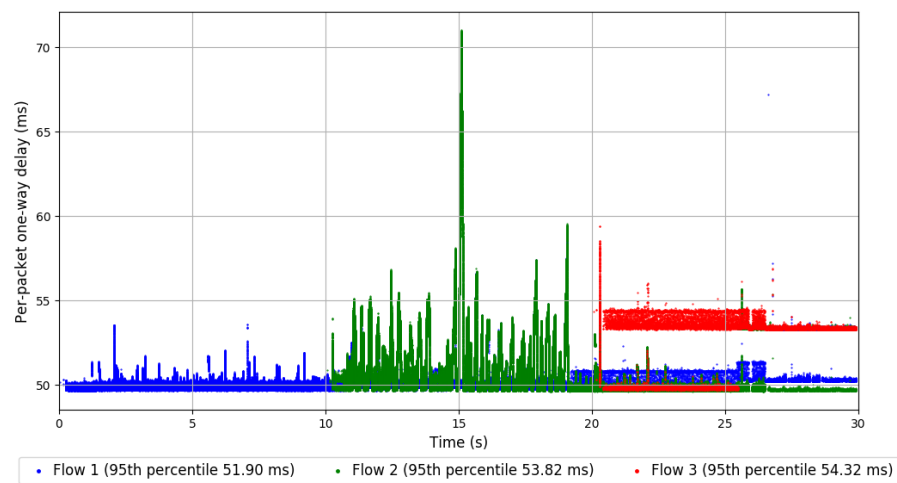
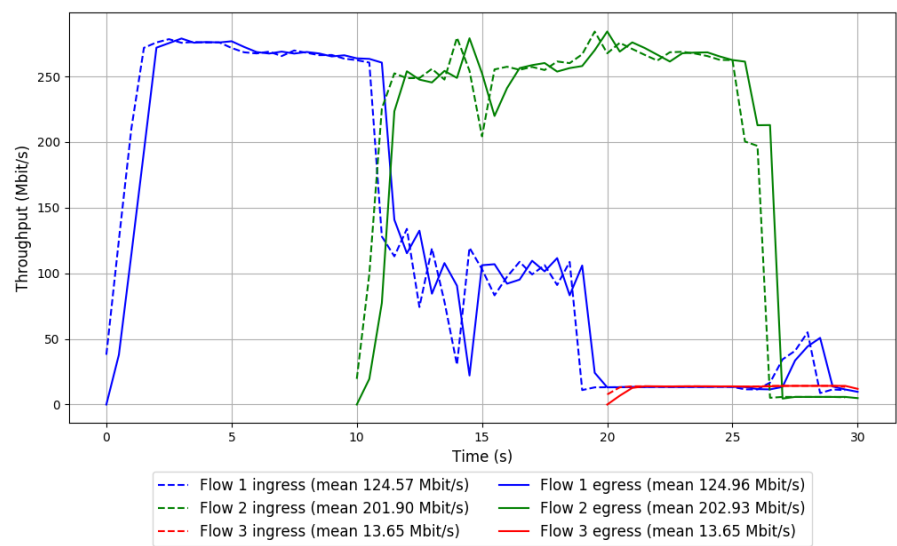
-- Flow 3:

Average throughput: 13.65 Mbit/s

95th percentile per-packet one-way delay: 54.323 ms

Loss rate: 1.12%

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

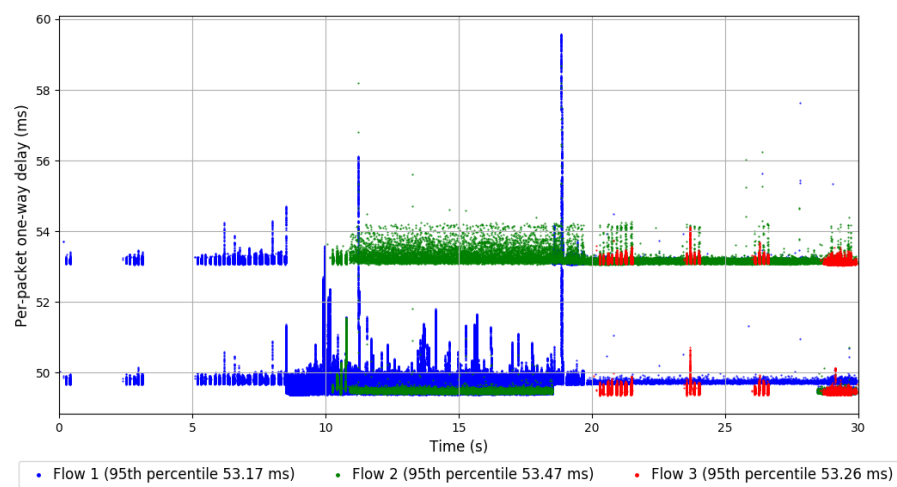
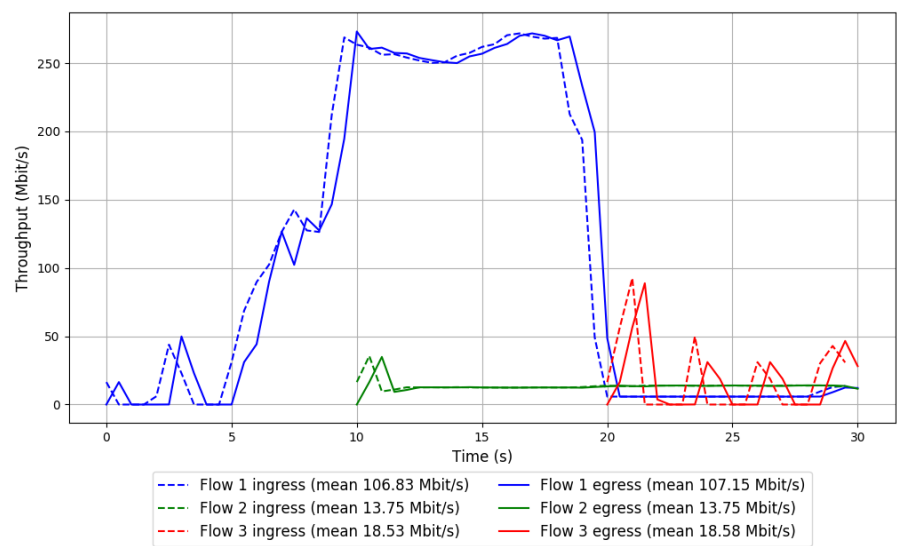


Run 4: Statistics of TaoVA-100x

Start at: 2018-07-12 18:11:11  
End at: 2018-07-12 18:11:41  
Local clock offset: -0.527 ms  
Remote clock offset: -0.161 ms

# Below is generated by plot.py at 2018-07-12 23:30:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 122.42 Mbit/s  
95th percentile per-packet one-way delay: 53.198 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 107.15 Mbit/s  
95th percentile per-packet one-way delay: 53.170 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 13.75 Mbit/s  
95th percentile per-packet one-way delay: 53.471 ms  
Loss rate: 0.53%  
-- Flow 3:  
Average throughput: 18.58 Mbit/s  
95th percentile per-packet one-way delay: 53.263 ms  
Loss rate: 0.76%

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



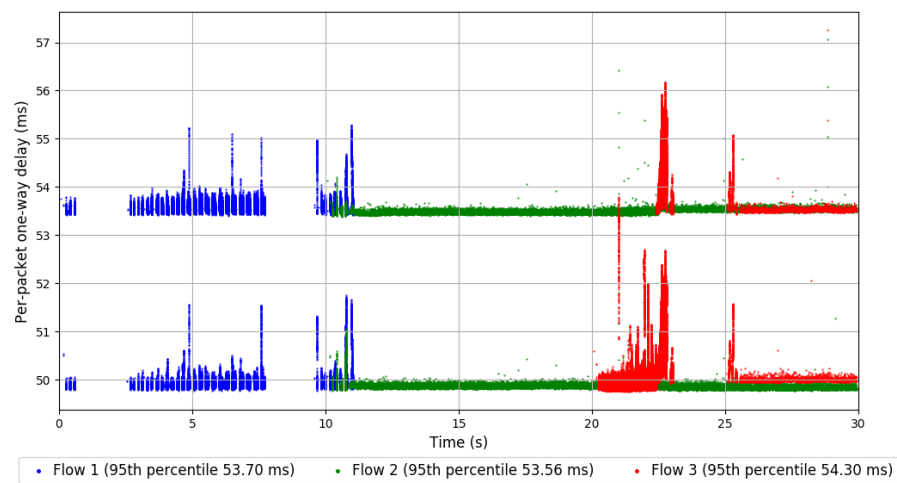
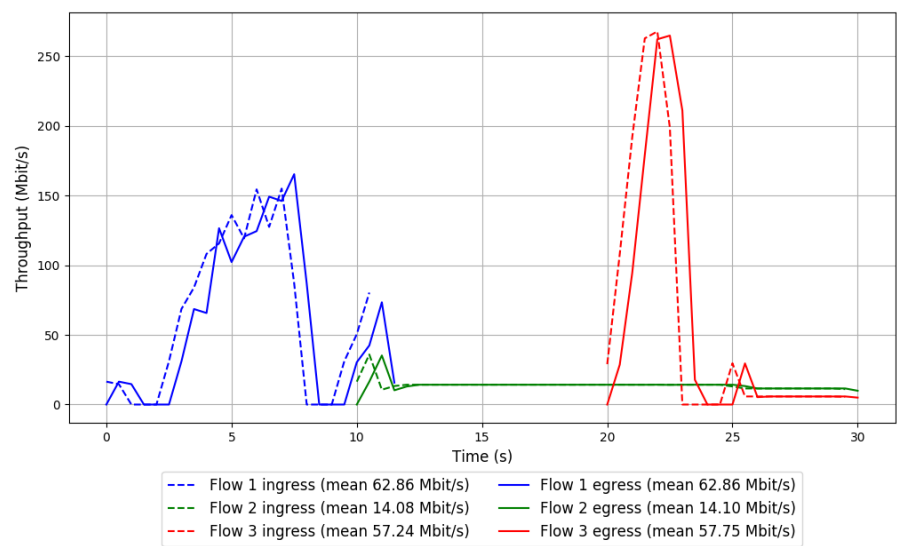
Run 5: Statistics of TaoVA-100x

Start at: 2018-07-12 18:36:17  
End at: 2018-07-12 18:36:47  
Local clock offset: -0.107 ms  
Remote clock offset: -0.123 ms

# Below is generated by plot.py at 2018-07-12 23:30:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 51.54 Mbit/s  
95th percentile per-packet one-way delay: 53.713 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 62.86 Mbit/s  
95th percentile per-packet one-way delay: 53.704 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 14.10 Mbit/s  
95th percentile per-packet one-way delay: 53.560 ms  
Loss rate: 0.42%  
-- Flow 3:  
Average throughput: 57.75 Mbit/s  
95th percentile per-packet one-way delay: 54.305 ms  
Loss rate: 0.10%



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

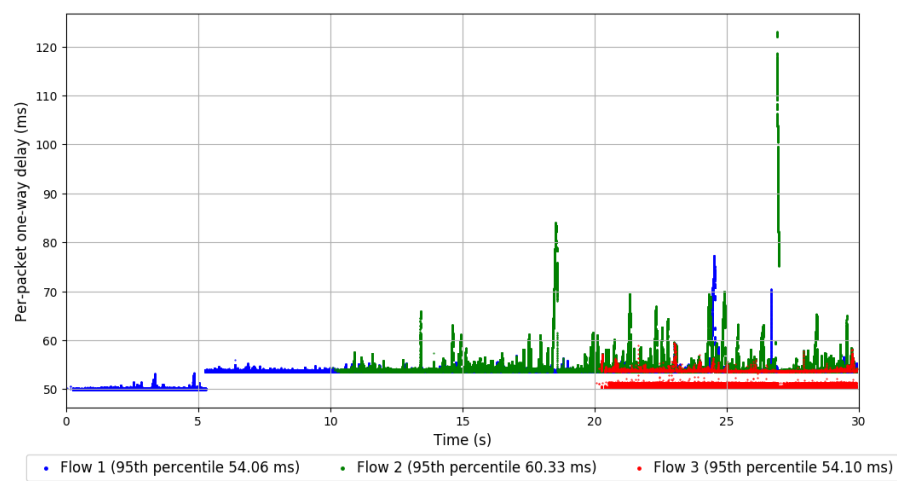
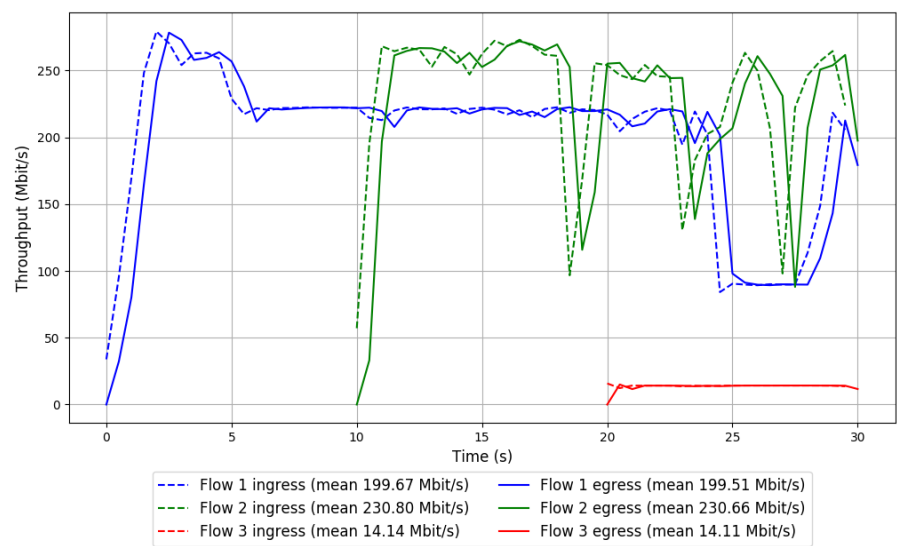


Run 6: Statistics of TaoVA-100x

Start at: 2018-07-12 19:01:24  
End at: 2018-07-12 19:01:54  
Local clock offset: 0.086 ms  
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2018-07-12 23:36:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 357.55 Mbit/s  
95th percentile per-packet one-way delay: 56.535 ms  
Loss rate: 0.52%  
-- Flow 1:  
Average throughput: 199.51 Mbit/s  
95th percentile per-packet one-way delay: 54.057 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 230.66 Mbit/s  
95th percentile per-packet one-way delay: 60.332 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 14.11 Mbit/s  
95th percentile per-packet one-way delay: 54.096 ms  
Loss rate: 1.27%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-12 19:26:43

End at: 2018-07-12 19:27:13

Local clock offset: -0.032 ms

Remote clock offset: 0.057 ms

# Below is generated by plot.py at 2018-07-12 23:36:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 259.85 Mbit/s

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

Loss rate: 0.33%

-- Flow 1:

Average throughput: 246.06 Mbit/s

95th percentile per-packet one-way delay: 53.558 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 13.84 Mbit/s

95th percentile per-packet one-way delay: 54.425 ms

Loss rate: 0.52%

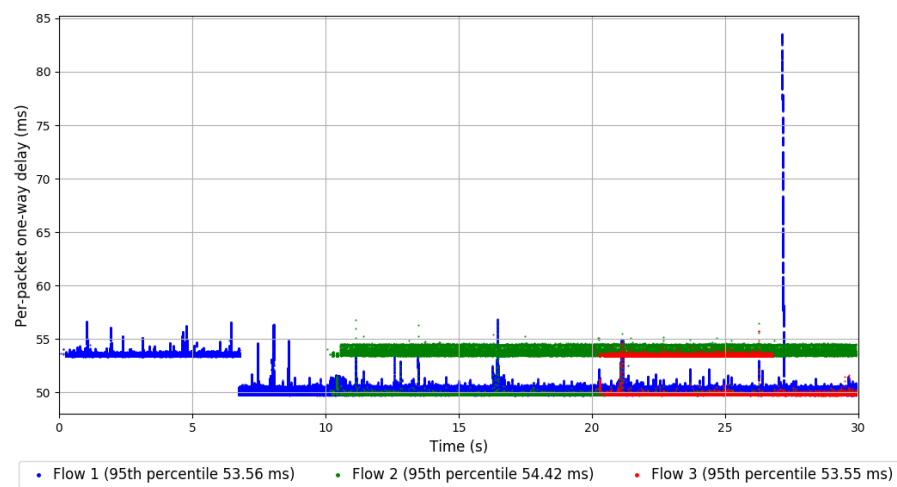
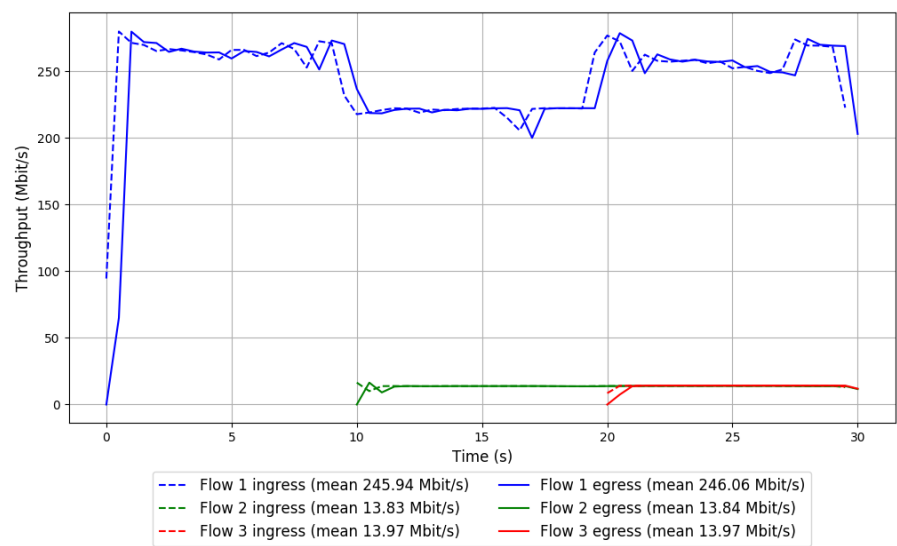
-- Flow 3:

Average throughput: 13.97 Mbit/s

95th percentile per-packet one-way delay: 53.548 ms

Loss rate: 1.07%

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

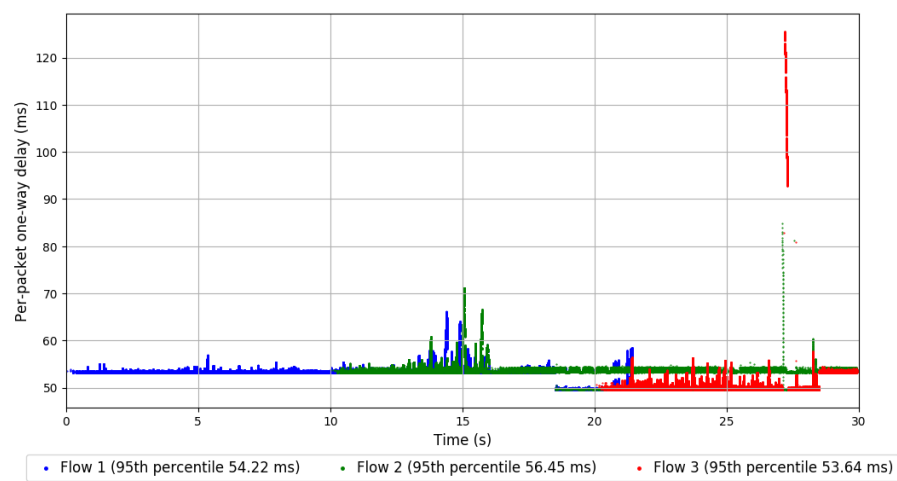
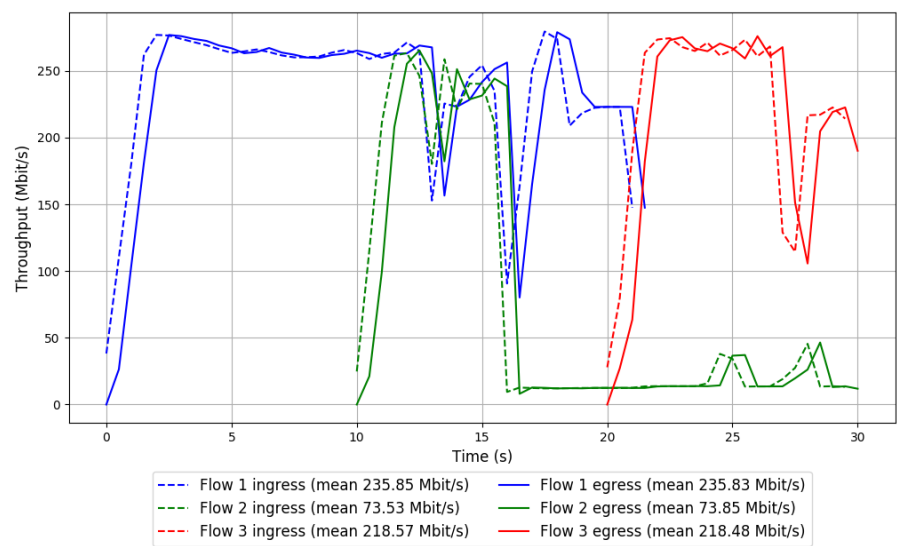


Run 8: Statistics of TaoVA-100x

Start at: 2018-07-12 19:52:21  
End at: 2018-07-12 19:52:51  
Local clock offset: -0.229 ms  
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2018-07-12 23:36:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 289.83 Mbit/s  
95th percentile per-packet one-way delay: 54.430 ms  
Loss rate: 0.29%  
-- Flow 1:  
Average throughput: 235.83 Mbit/s  
95th percentile per-packet one-way delay: 54.223 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 73.85 Mbit/s  
95th percentile per-packet one-way delay: 56.454 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 218.48 Mbit/s  
95th percentile per-packet one-way delay: 53.641 ms  
Loss rate: 1.10%

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



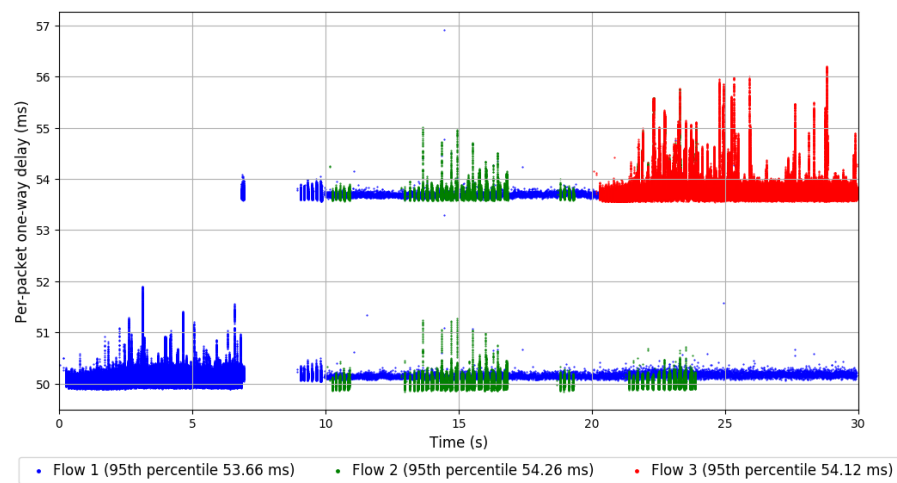
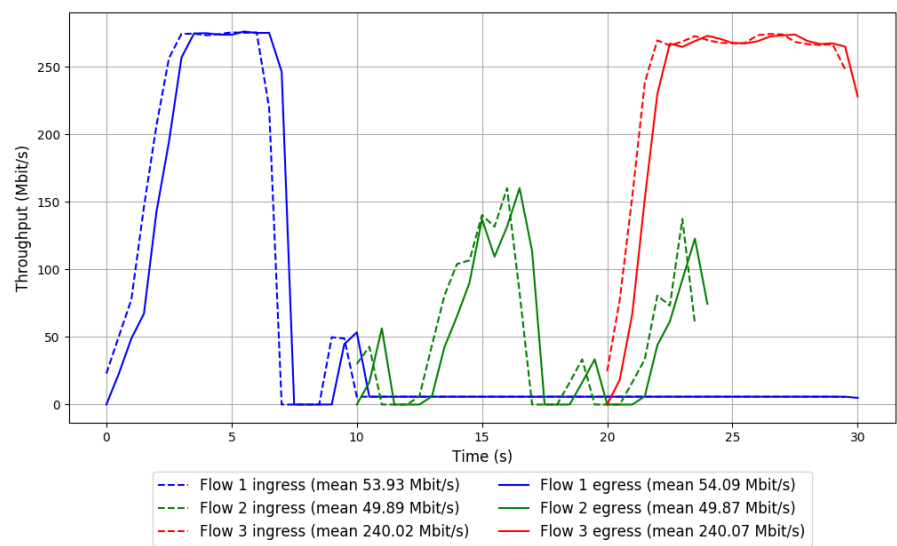
Run 9: Statistics of TaoVA-100x

Start at: 2018-07-12 20:17:33  
End at: 2018-07-12 20:18:03  
Local clock offset: 0.023 ms  
Remote clock offset: -0.154 ms

# Below is generated by plot.py at 2018-07-12 23:36:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 156.39 Mbit/s  
95th percentile per-packet one-way delay: 53.977 ms  
Loss rate: 0.54%  
-- Flow 1:  
Average throughput: 54.09 Mbit/s  
95th percentile per-packet one-way delay: 53.658 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 49.87 Mbit/s  
95th percentile per-packet one-way delay: 54.258 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 240.07 Mbit/s  
95th percentile per-packet one-way delay: 54.121 ms  
Loss rate: 1.04%



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

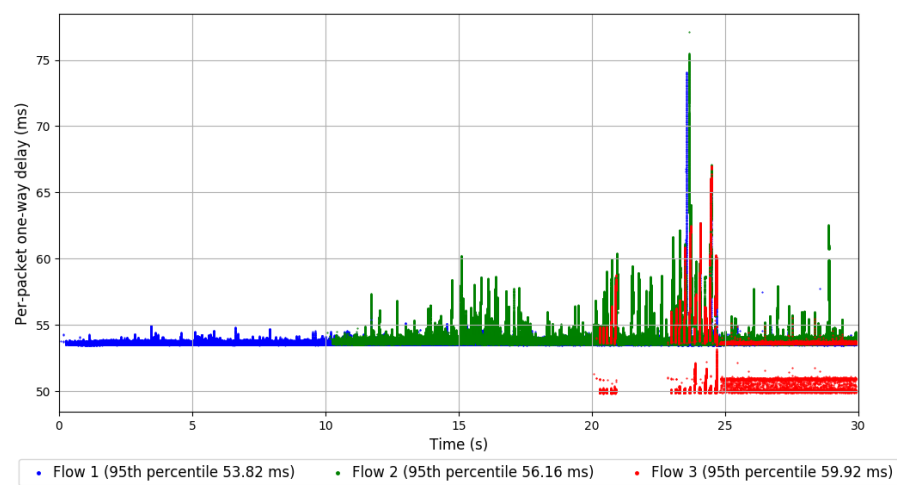
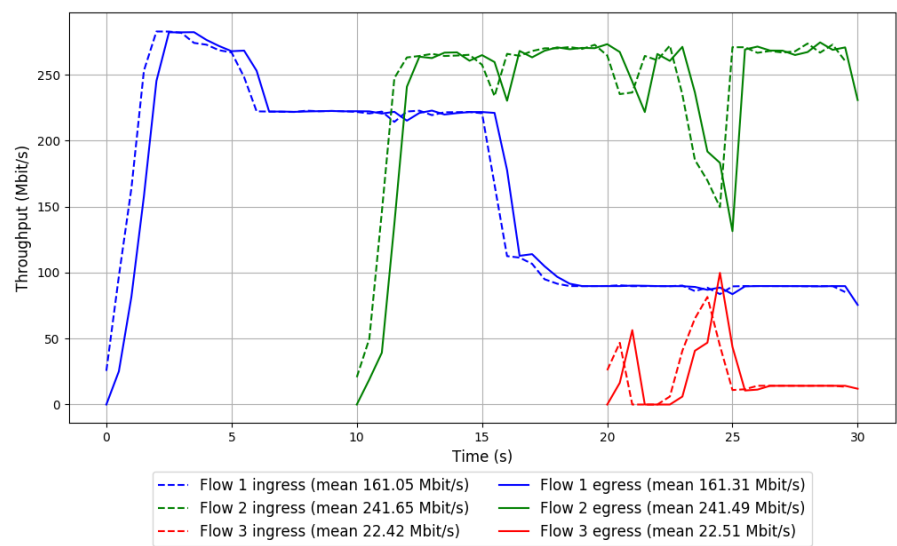


Run 10: Statistics of TaoVA-100x

Start at: 2018-07-12 20:42:47  
End at: 2018-07-12 20:43:17  
Local clock offset: 0.003 ms  
Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2018-07-12 23:37:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 329.28 Mbit/s  
95th percentile per-packet one-way delay: 55.092 ms  
Loss rate: 0.41%  
-- Flow 1:  
Average throughput: 161.31 Mbit/s  
95th percentile per-packet one-way delay: 53.822 ms  
Loss rate: 0.20%  
-- Flow 2:  
Average throughput: 241.49 Mbit/s  
95th percentile per-packet one-way delay: 56.156 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 22.51 Mbit/s  
95th percentile per-packet one-way delay: 59.916 ms  
Loss rate: 0.68%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-07-12 16:55:01

End at: 2018-07-12 16:55:31

Local clock offset: 0.081 ms

Remote clock offset: -1.42 ms

# Below is generated by plot.py at 2018-07-12 23:37:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 337.50 Mbit/s

95th percentile per-packet one-way delay: 68.734 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 219.93 Mbit/s

95th percentile per-packet one-way delay: 68.952 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 79.93 Mbit/s

95th percentile per-packet one-way delay: 66.379 ms

Loss rate: 0.50%

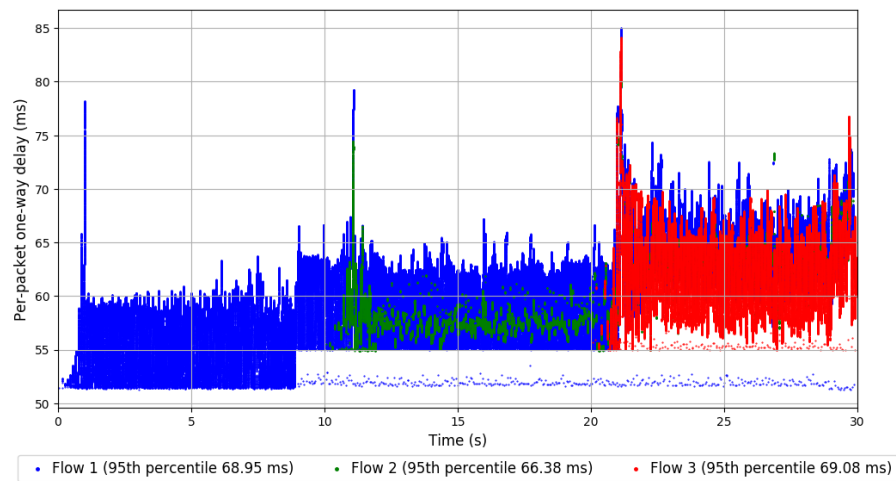
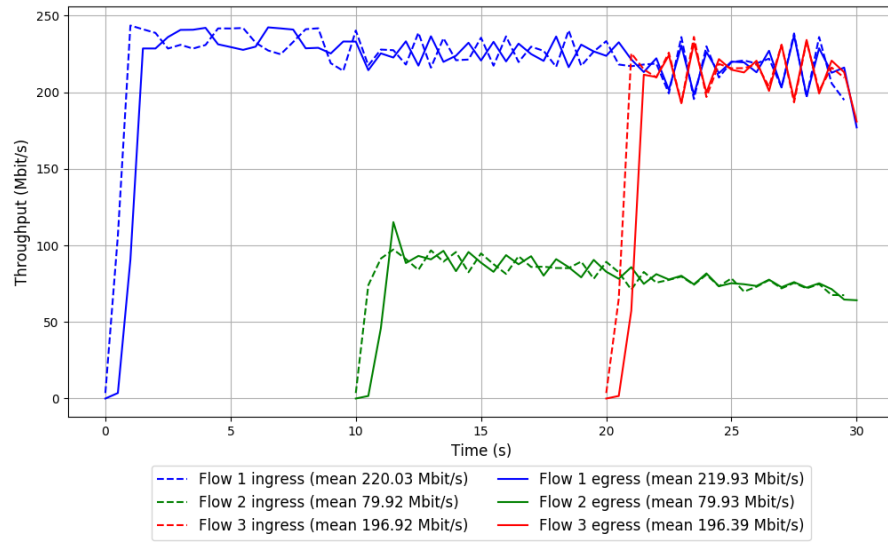
-- Flow 3:

Average throughput: 196.39 Mbit/s

95th percentile per-packet one-way delay: 69.078 ms

Loss rate: 1.35%

# Run 1: Report of TCP Vegas — Data Link

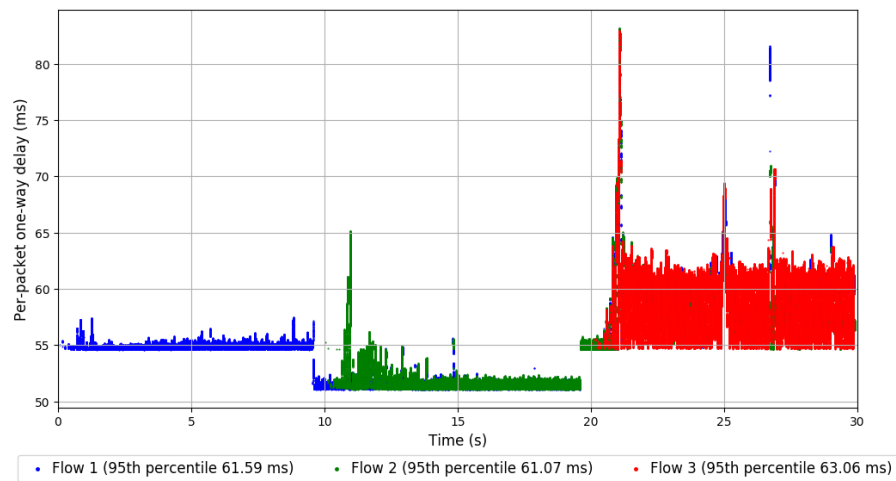
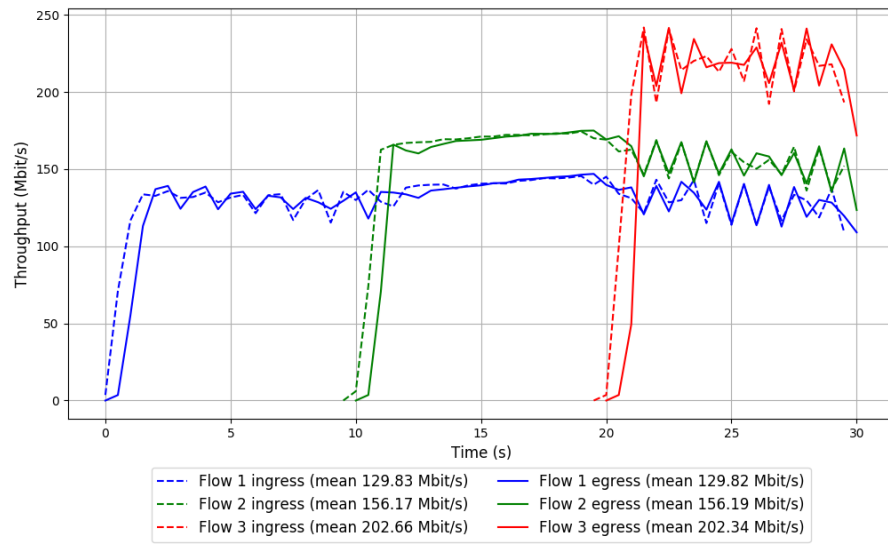


Run 2: Statistics of TCP Vegas

Start at: 2018-07-12 17:22:10  
End at: 2018-07-12 17:22:40  
Local clock offset: -0.115 ms  
Remote clock offset: -1.337 ms

# Below is generated by plot.py at 2018-07-12 23:37:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 300.20 Mbit/s  
95th percentile per-packet one-way delay: 62.074 ms  
Loss rate: 0.60%  
-- Flow 1:  
Average throughput: 129.82 Mbit/s  
95th percentile per-packet one-way delay: 61.589 ms  
Loss rate: 0.35%  
-- Flow 2:  
Average throughput: 156.19 Mbit/s  
95th percentile per-packet one-way delay: 61.071 ms  
Loss rate: 0.53%  
-- Flow 3:  
Average throughput: 202.34 Mbit/s  
95th percentile per-packet one-way delay: 63.059 ms  
Loss rate: 1.20%

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



Run 3: Statistics of TCP Vegas

Start at: 2018-07-12 17:49:09

End at: 2018-07-12 17:49:39

Local clock offset: 0.137 ms

Remote clock offset: 0.397 ms

# Below is generated by plot.py at 2018-07-12 23:37:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 293.53 Mbit/s

95th percentile per-packet one-way delay: 64.742 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 222.09 Mbit/s

95th percentile per-packet one-way delay: 64.887 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 7.15 Mbit/s

95th percentile per-packet one-way delay: 60.797 ms

Loss rate: 0.46%

-- Flow 3:

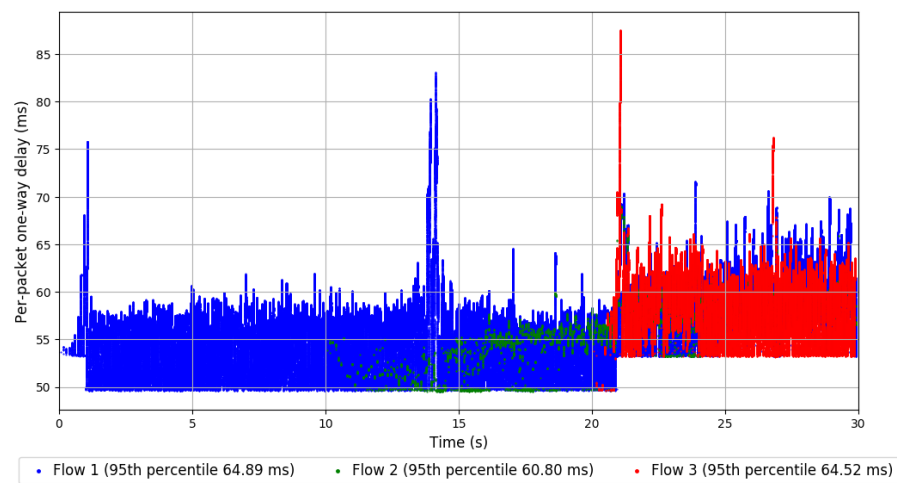
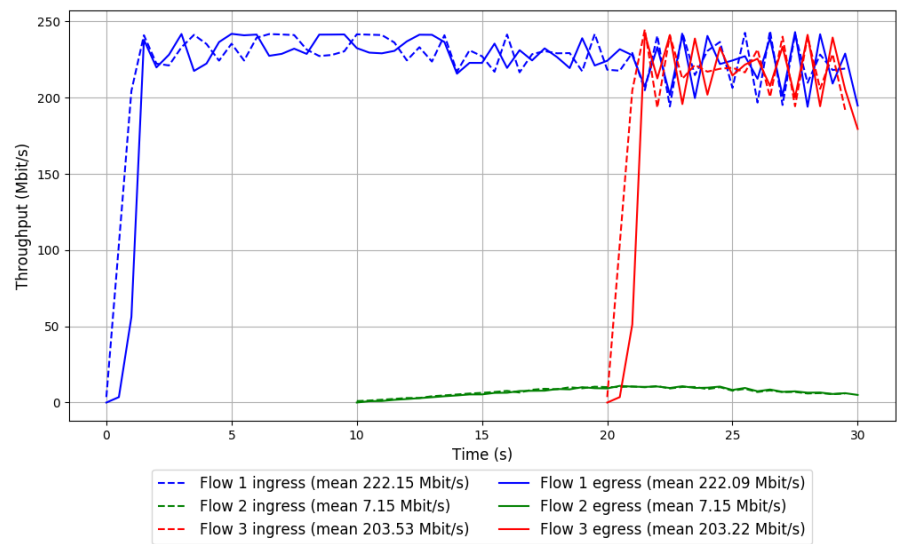
Average throughput: 203.22 Mbit/s

95th percentile per-packet one-way delay: 64.522 ms

Loss rate: 1.19%



Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-07-12 18:14:07

End at: 2018-07-12 18:14:37

Local clock offset: -0.084 ms

Remote clock offset: 0.038 ms

# Below is generated by plot.py at 2018-07-12 23:37:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 127.50 Mbit/s

95th percentile per-packet one-way delay: 58.138 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 27.06 Mbit/s

95th percentile per-packet one-way delay: 56.657 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 45.49 Mbit/s

95th percentile per-packet one-way delay: 57.397 ms

Loss rate: 0.51%

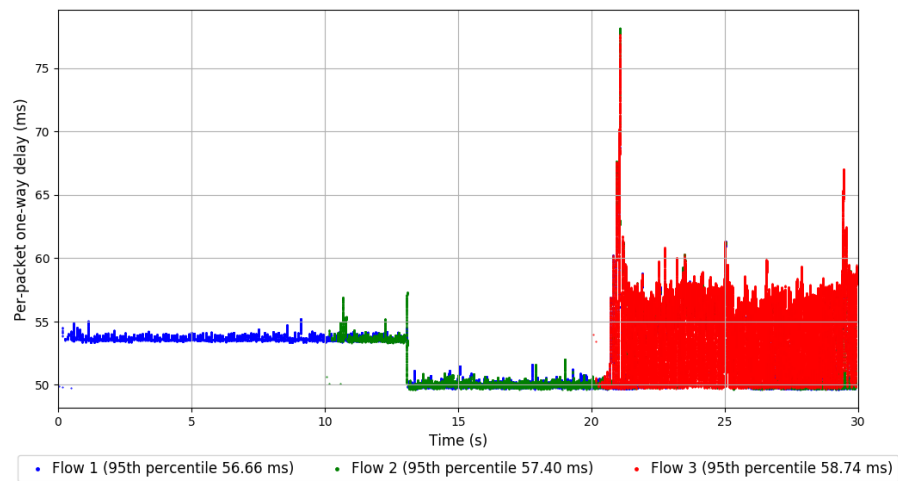
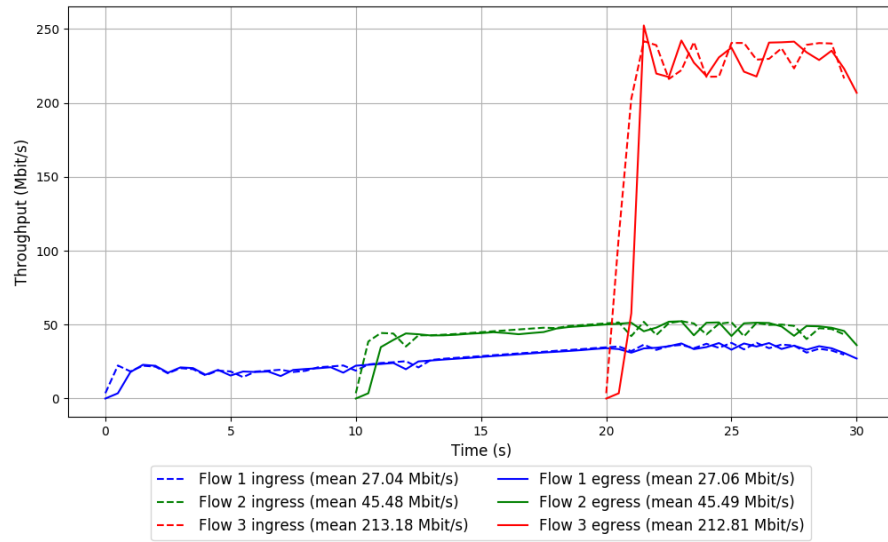
-- Flow 3:

Average throughput: 212.81 Mbit/s

95th percentile per-packet one-way delay: 58.741 ms

Loss rate: 1.20%

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

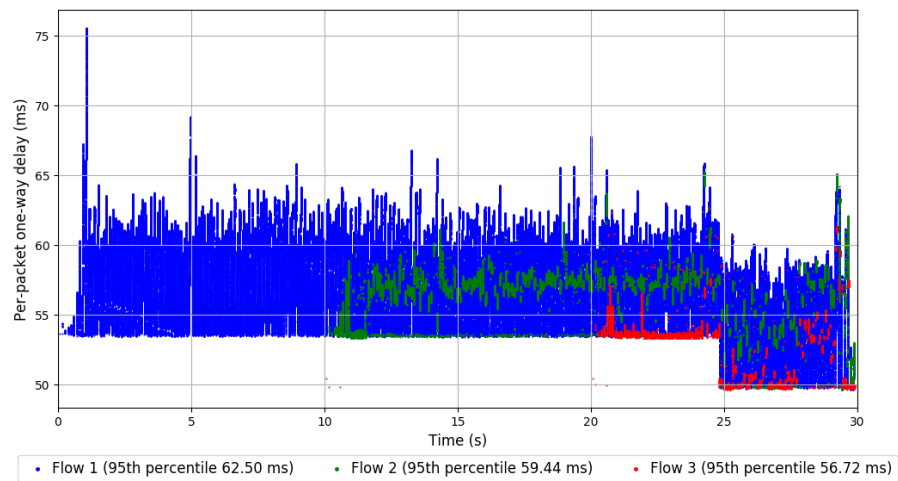
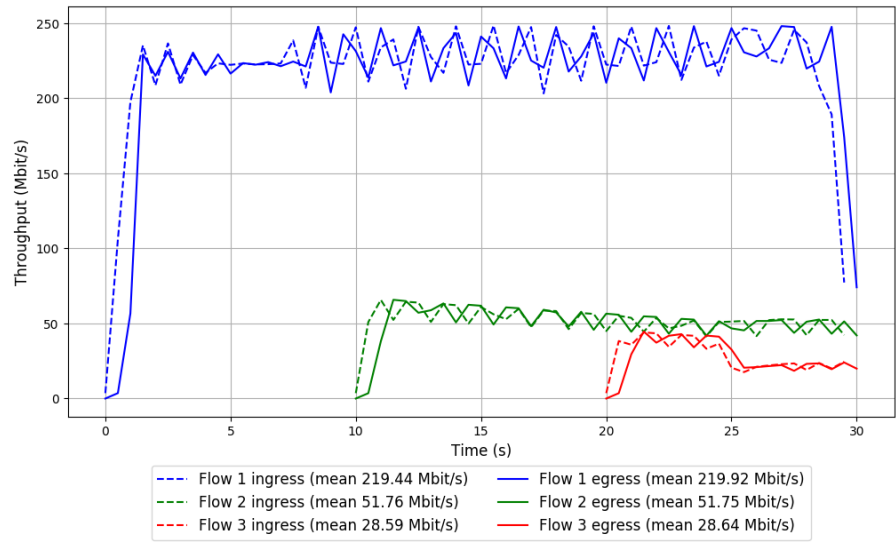


Run 5: Statistics of TCP Vegas

Start at: 2018-07-12 18:39:05  
End at: 2018-07-12 18:39:35  
Local clock offset: -0.106 ms  
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2018-07-12 23:38:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 263.76 Mbit/s  
95th percentile per-packet one-way delay: 62.369 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 219.92 Mbit/s  
95th percentile per-packet one-way delay: 62.503 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 51.75 Mbit/s  
95th percentile per-packet one-way delay: 59.444 ms  
Loss rate: 0.51%  
-- Flow 3:  
Average throughput: 28.64 Mbit/s  
95th percentile per-packet one-way delay: 56.716 ms  
Loss rate: 0.89%

# Run 5: Report of TCP Vegas — Data Link

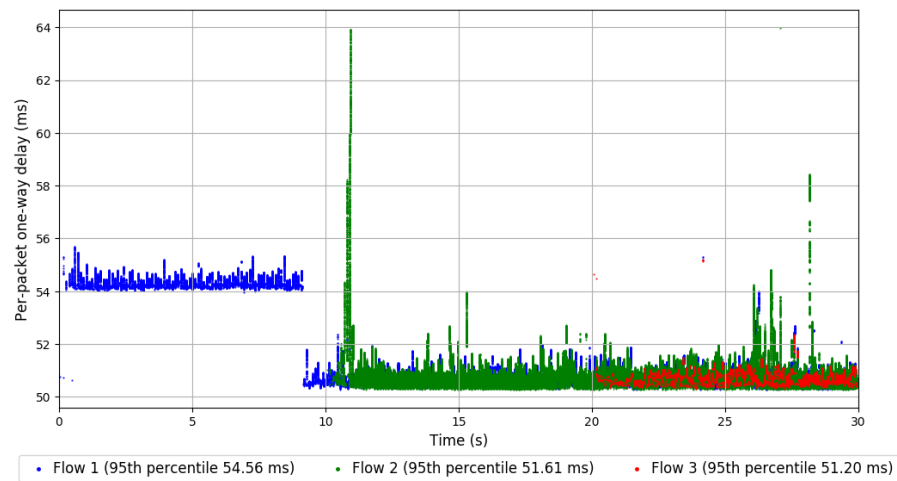
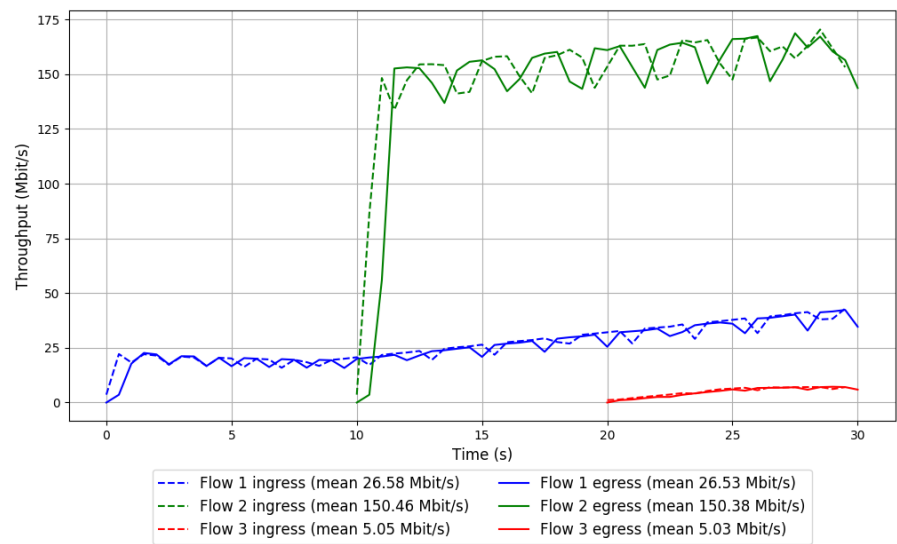


Run 6: Statistics of TCP Vegas

Start at: 2018-07-12 19:04:41  
End at: 2018-07-12 19:05:11  
Local clock offset: 0.4 ms  
Remote clock offset: -0.094 ms

# Below is generated by plot.py at 2018-07-12 23:38:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 128.14 Mbit/s  
95th percentile per-packet one-way delay: 53.983 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 26.53 Mbit/s  
95th percentile per-packet one-way delay: 54.560 ms  
Loss rate: 0.54%  
-- Flow 2:  
Average throughput: 150.38 Mbit/s  
95th percentile per-packet one-way delay: 51.613 ms  
Loss rate: 0.57%  
-- Flow 3:  
Average throughput: 5.03 Mbit/s  
95th percentile per-packet one-way delay: 51.201 ms  
Loss rate: 1.46%

Run 6: Report of TCP Vegas — Data Link



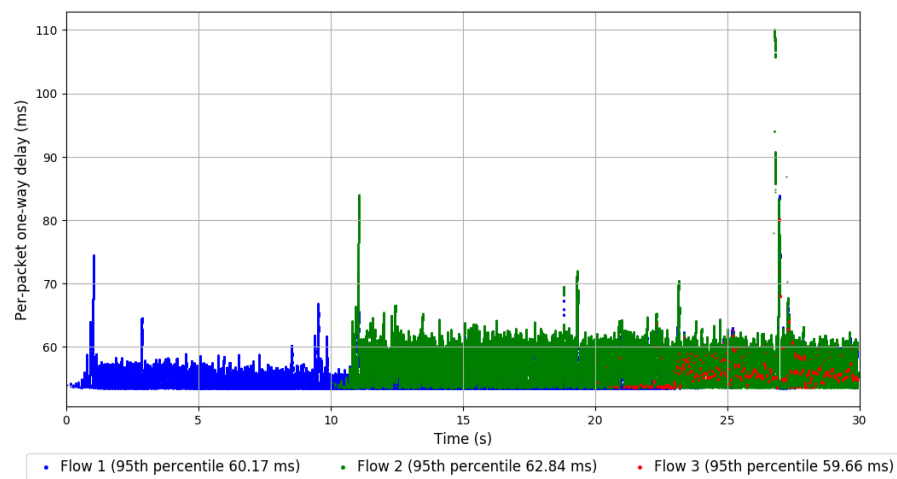
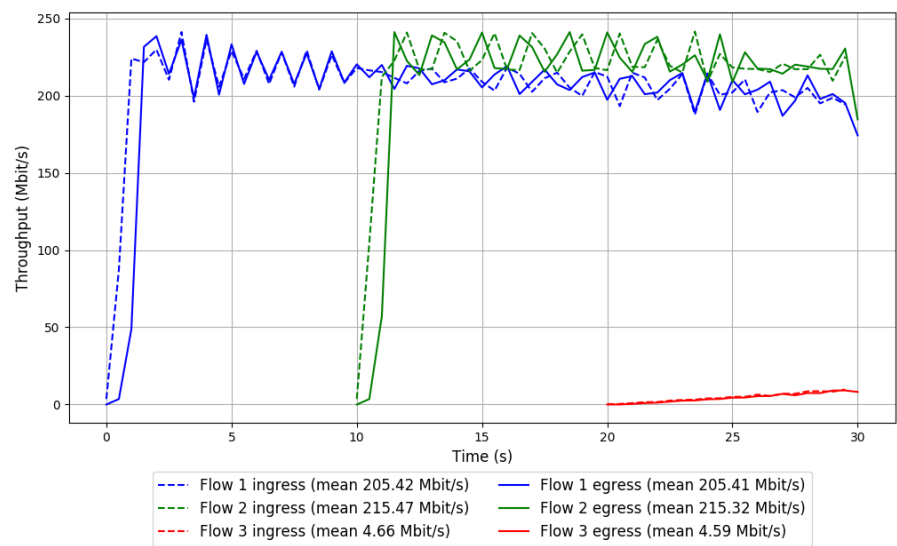
Run 7: Statistics of TCP Vegas

Start at: 2018-07-12 19:29:50  
End at: 2018-07-12 19:30:20  
Local clock offset: -0.291 ms  
Remote clock offset: -0.234 ms

# Below is generated by plot.py at 2018-07-12 23:40:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 349.97 Mbit/s  
95th percentile per-packet one-way delay: 61.826 ms  
Loss rate: 0.47%  
-- Flow 1:  
Average throughput: 205.41 Mbit/s  
95th percentile per-packet one-way delay: 60.171 ms  
Loss rate: 0.35%  
-- Flow 2:  
Average throughput: 215.32 Mbit/s  
95th percentile per-packet one-way delay: 62.844 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 4.59 Mbit/s  
95th percentile per-packet one-way delay: 59.664 ms  
Loss rate: 2.53%



Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-07-12 19:55:30

End at: 2018-07-12 19:56:00

Local clock offset: 0.105 ms

Remote clock offset: 0.163 ms

# Below is generated by plot.py at 2018-07-12 23:41:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 318.23 Mbit/s

95th percentile per-packet one-way delay: 62.389 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 219.98 Mbit/s

95th percentile per-packet one-way delay: 61.958 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 46.58 Mbit/s

95th percentile per-packet one-way delay: 60.595 ms

Loss rate: 0.65%

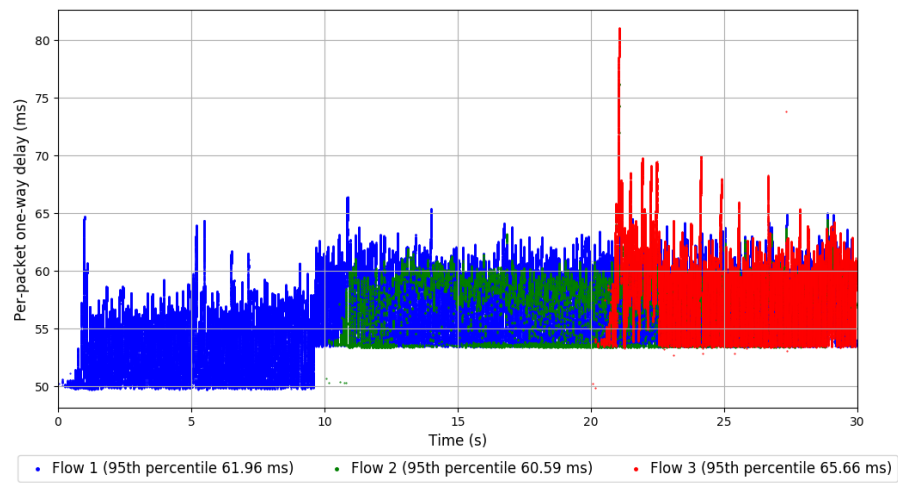
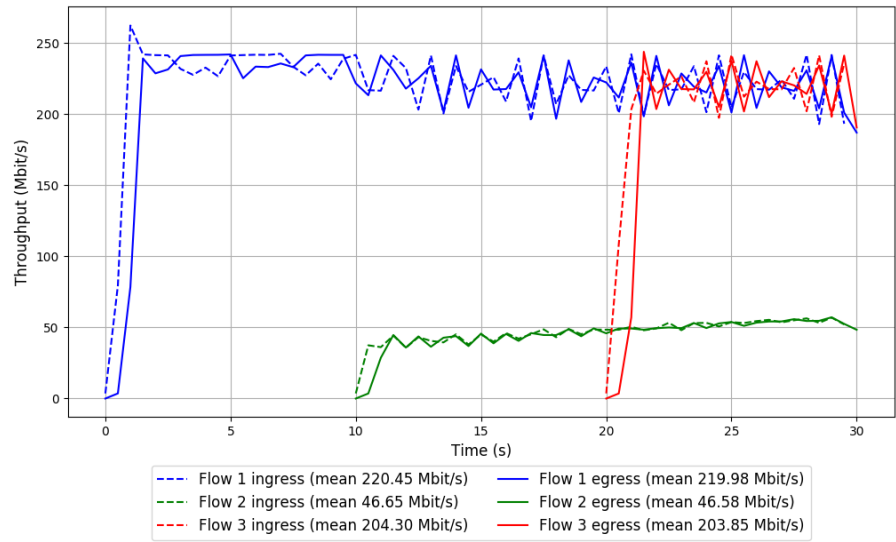
-- Flow 3:

Average throughput: 203.85 Mbit/s

95th percentile per-packet one-way delay: 65.659 ms

Loss rate: 1.23%

# Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-07-12 20:20:32

End at: 2018-07-12 20:21:02

Local clock offset: 0.095 ms

Remote clock offset: 0.166 ms

# Below is generated by plot.py at 2018-07-12 23:41:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.85 Mbit/s

95th percentile per-packet one-way delay: 53.874 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 21.42 Mbit/s

95th percentile per-packet one-way delay: 53.986 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 35.76 Mbit/s

95th percentile per-packet one-way delay: 53.921 ms

Loss rate: 0.42%

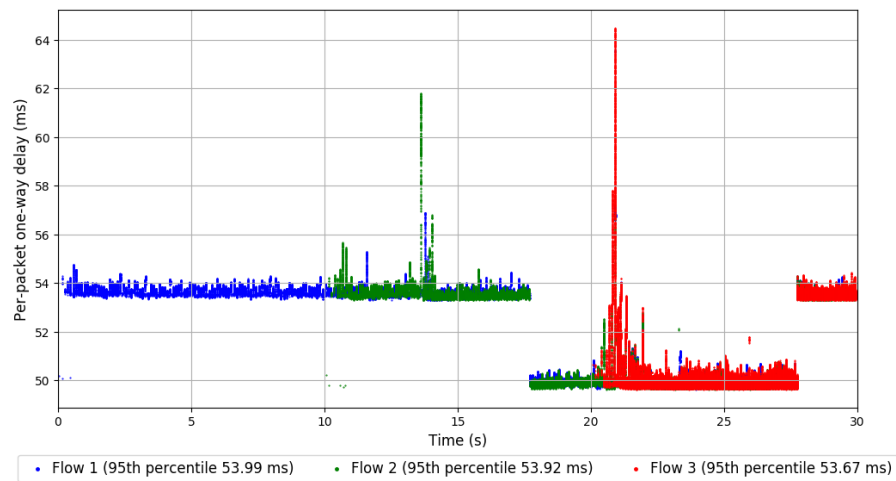
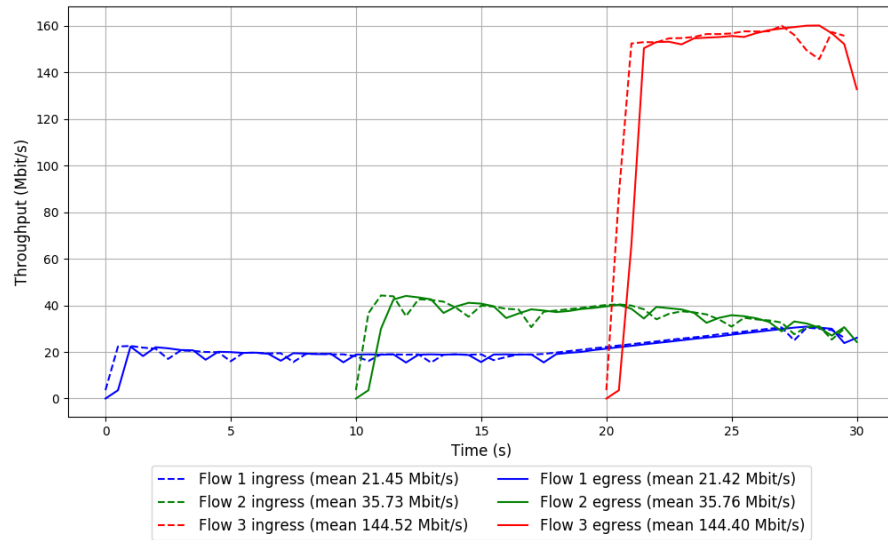
-- Flow 3:

Average throughput: 144.40 Mbit/s

95th percentile per-packet one-way delay: 53.673 ms

Loss rate: 1.10%

### Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-12 20:46:00

End at: 2018-07-12 20:46:30

Local clock offset: 0.185 ms

Remote clock offset: 0.486 ms

# Below is generated by plot.py at 2018-07-12 23:41:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.10 Mbit/s

95th percentile per-packet one-way delay: 53.738 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 31.60 Mbit/s

95th percentile per-packet one-way delay: 53.838 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 22.46 Mbit/s

95th percentile per-packet one-way delay: 53.756 ms

Loss rate: 0.61%

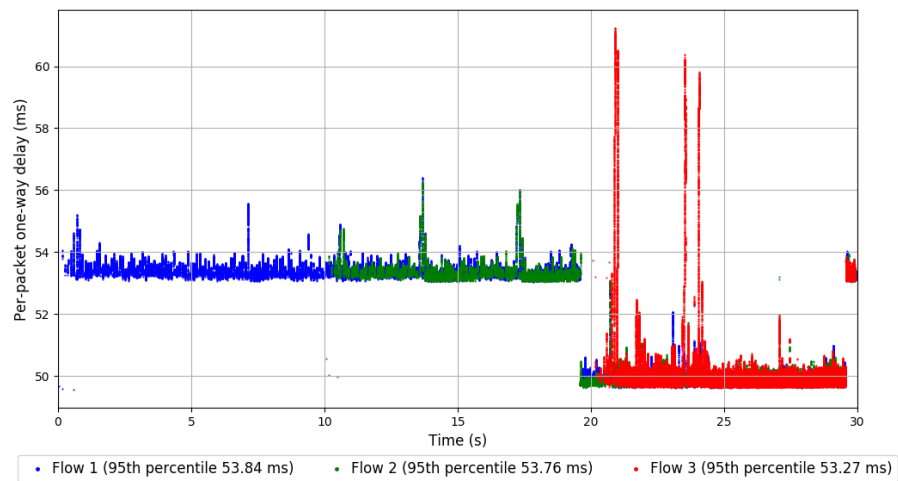
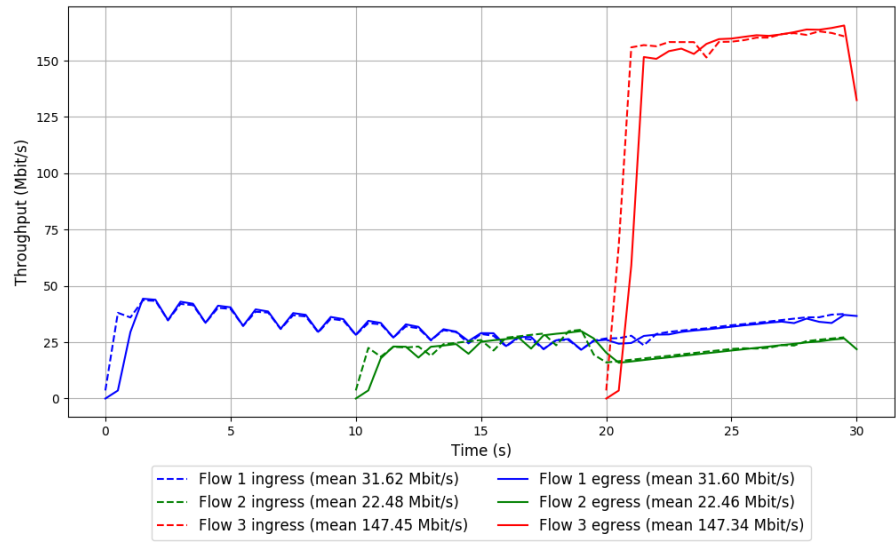
-- Flow 3:

Average throughput: 147.34 Mbit/s

95th percentile per-packet one-way delay: 53.271 ms

Loss rate: 1.13%

# Run 10: Report of TCP Vegas — Data Link



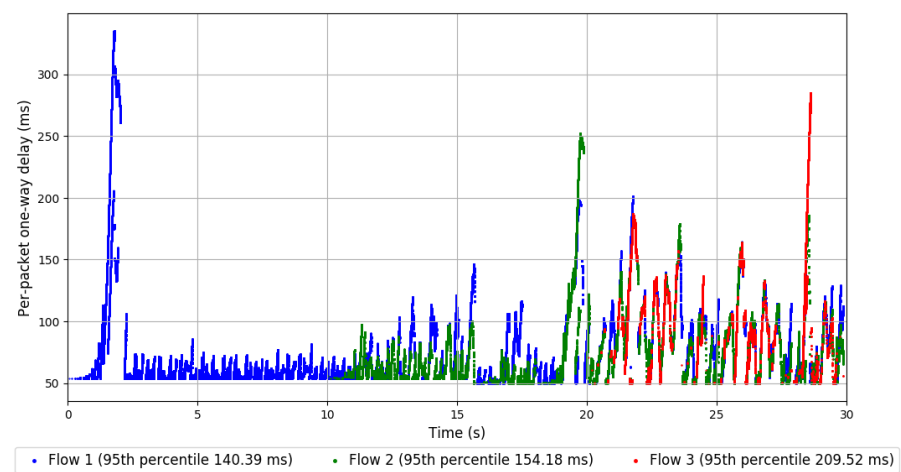
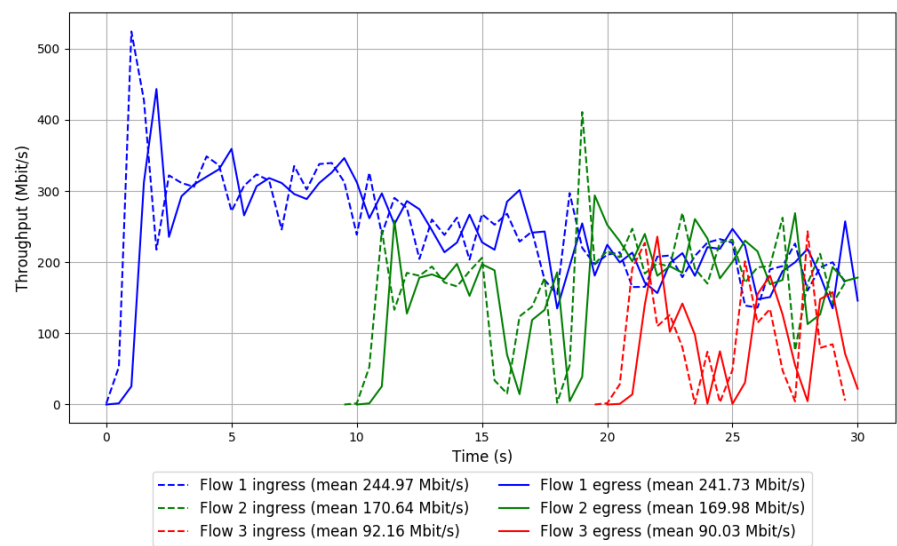
Run 1: Statistics of Verus

Start at: 2018-07-12 16:47:14  
End at: 2018-07-12 16:47:44  
Local clock offset: -0.057 ms  
Remote clock offset: -0.137 ms

# Below is generated by plot.py at 2018-07-12 23:43:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 384.42 Mbit/s  
95th percentile per-packet one-way delay: 152.612 ms  
Loss rate: 1.44%  
-- Flow 1:  
Average throughput: 241.73 Mbit/s  
95th percentile per-packet one-way delay: 140.394 ms  
Loss rate: 1.55%  
-- Flow 2:  
Average throughput: 169.98 Mbit/s  
95th percentile per-packet one-way delay: 154.176 ms  
Loss rate: 0.92%  
-- Flow 3:  
Average throughput: 90.03 Mbit/s  
95th percentile per-packet one-way delay: 209.523 ms  
Loss rate: 2.47%



Run 1: Report of Verus — Data Link

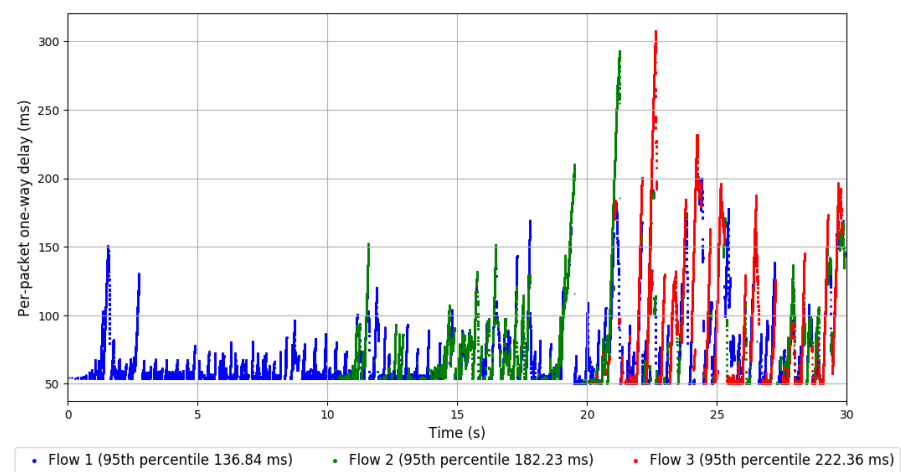
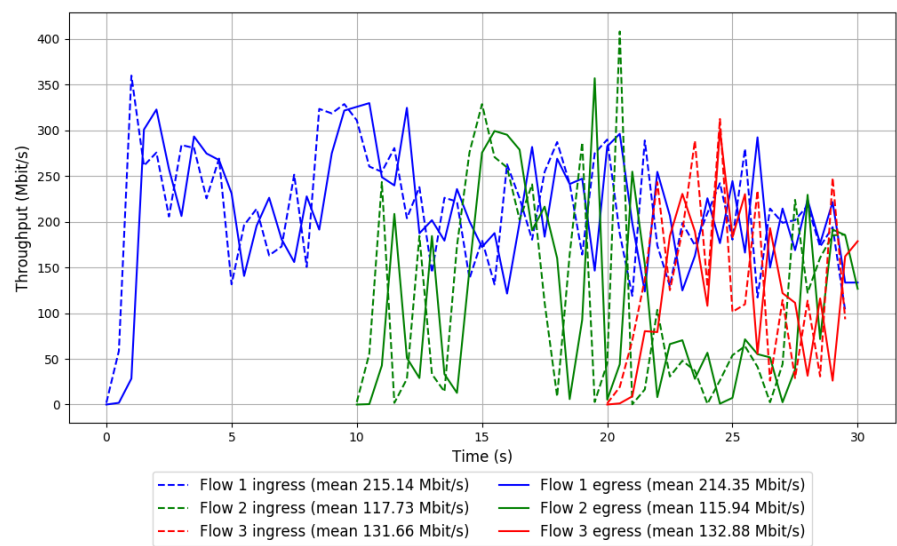


Run 2: Statistics of Verus

Start at: 2018-07-12 17:13:31  
End at: 2018-07-12 17:14:01  
Local clock offset: 0.018 ms  
Remote clock offset: -0.353 ms

# Below is generated by plot.py at 2018-07-12 23:43:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 334.82 Mbit/s  
95th percentile per-packet one-way delay: 172.990 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 214.35 Mbit/s  
95th percentile per-packet one-way delay: 136.838 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 115.94 Mbit/s  
95th percentile per-packet one-way delay: 182.233 ms  
Loss rate: 1.88%  
-- Flow 3:  
Average throughput: 132.88 Mbit/s  
95th percentile per-packet one-way delay: 222.362 ms  
Loss rate: 0.91%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-07-12 17:41:25

End at: 2018-07-12 17:41:55

Local clock offset: -0.242 ms

Remote clock offset: 0.049 ms

# Below is generated by plot.py at 2018-07-12 23:43:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 328.96 Mbit/s

95th percentile per-packet one-way delay: 186.897 ms

Loss rate: 2.18%

-- Flow 1:

Average throughput: 182.33 Mbit/s

95th percentile per-packet one-way delay: 167.136 ms

Loss rate: 1.62%

-- Flow 2:

Average throughput: 160.22 Mbit/s

95th percentile per-packet one-way delay: 177.326 ms

Loss rate: 2.74%

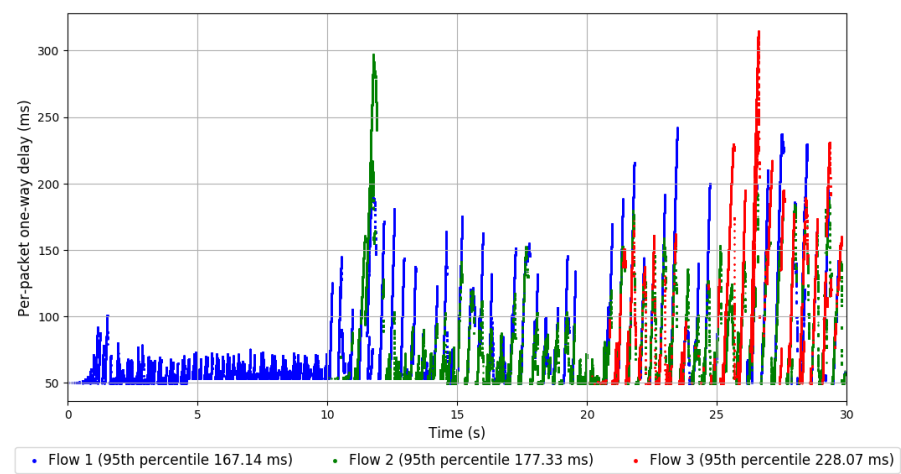
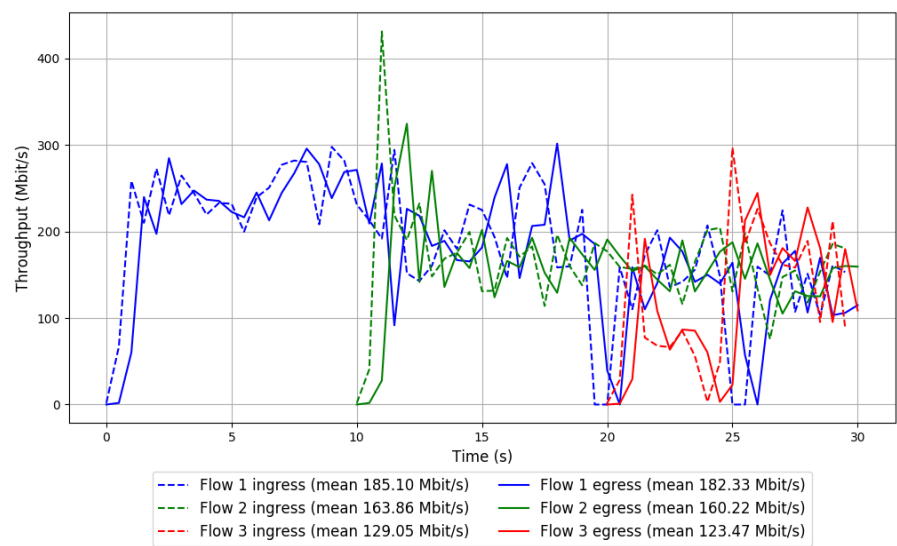
-- Flow 3:

Average throughput: 123.47 Mbit/s

95th percentile per-packet one-way delay: 228.068 ms

Loss rate: 3.23%

Run 3: Report of Verus — Data Link

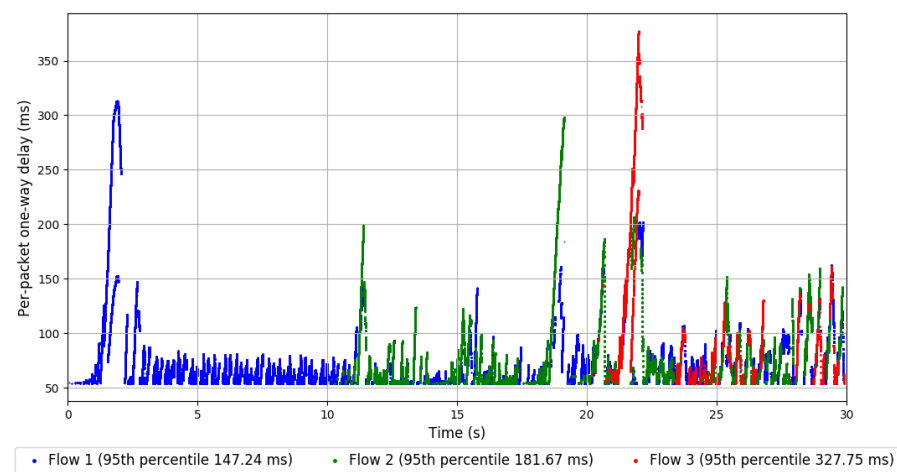
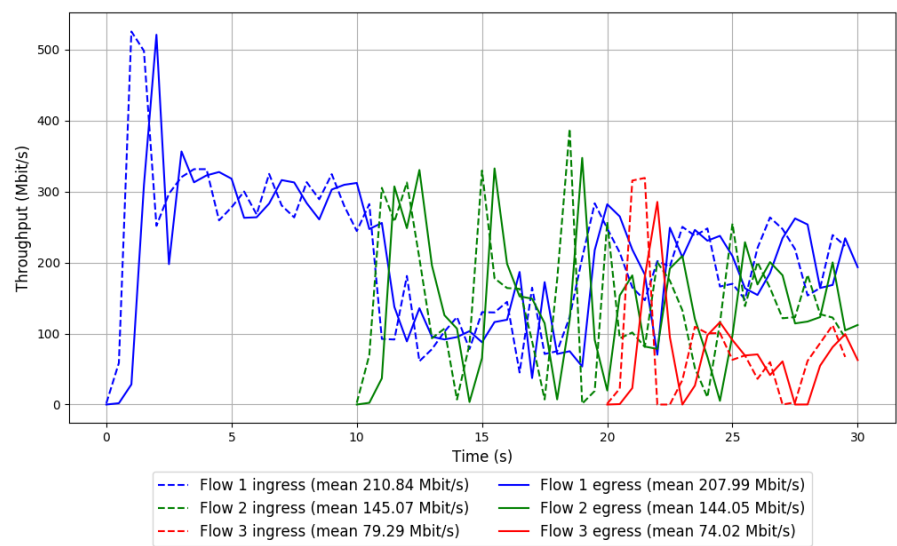


Run 4: Statistics of Verus

Start at: 2018-07-12 18:06:37  
End at: 2018-07-12 18:07:07  
Local clock offset: 0.37 ms  
Remote clock offset: -0.308 ms

# Below is generated by plot.py at 2018-07-12 23:44:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 327.59 Mbit/s  
95th percentile per-packet one-way delay: 182.296 ms  
Loss rate: 1.73%  
-- Flow 1:  
Average throughput: 207.99 Mbit/s  
95th percentile per-packet one-way delay: 147.241 ms  
Loss rate: 1.76%  
-- Flow 2:  
Average throughput: 144.05 Mbit/s  
95th percentile per-packet one-way delay: 181.671 ms  
Loss rate: 0.26%  
-- Flow 3:  
Average throughput: 74.02 Mbit/s  
95th percentile per-packet one-way delay: 327.753 ms  
Loss rate: 6.83%

Run 4: Report of Verus — Data Link



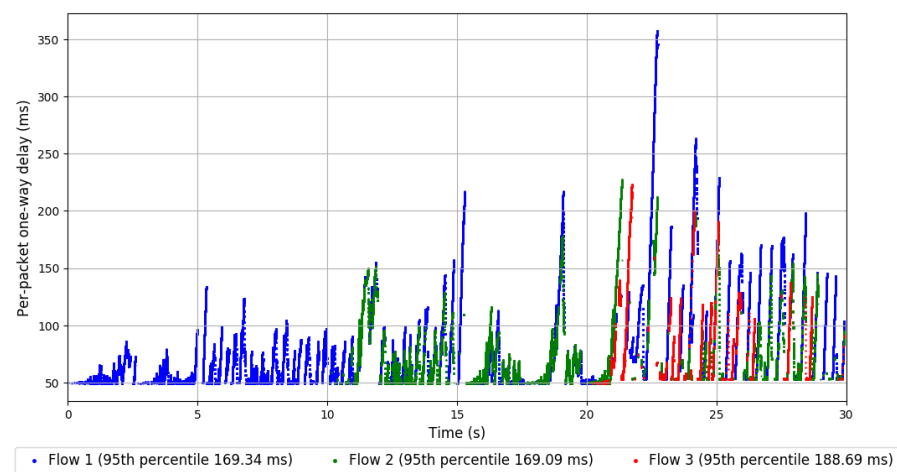
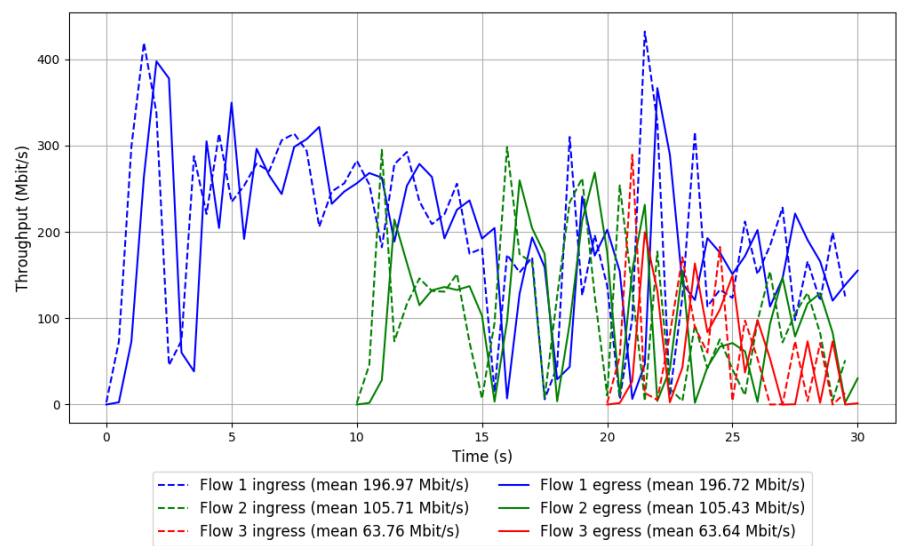
Run 5: Statistics of Verus

Start at: 2018-07-12 18:31:29  
End at: 2018-07-12 18:31:59  
Local clock offset: -0.511 ms  
Remote clock offset: -0.132 ms

# Below is generated by plot.py at 2018-07-12 23:44:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 287.75 Mbit/s  
95th percentile per-packet one-way delay: 172.138 ms  
Loss rate: 0.60%  
-- Flow 1:  
Average throughput: 196.72 Mbit/s  
95th percentile per-packet one-way delay: 169.339 ms  
Loss rate: 0.46%  
-- Flow 2:  
Average throughput: 105.43 Mbit/s  
95th percentile per-packet one-way delay: 169.095 ms  
Loss rate: 0.78%  
-- Flow 3:  
Average throughput: 63.64 Mbit/s  
95th percentile per-packet one-way delay: 188.688 ms  
Loss rate: 1.26%



Run 5: Report of Verus — Data Link

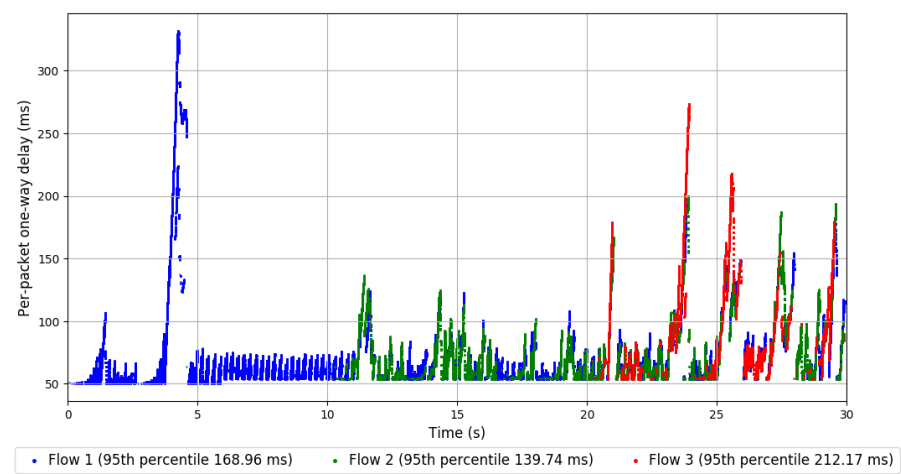
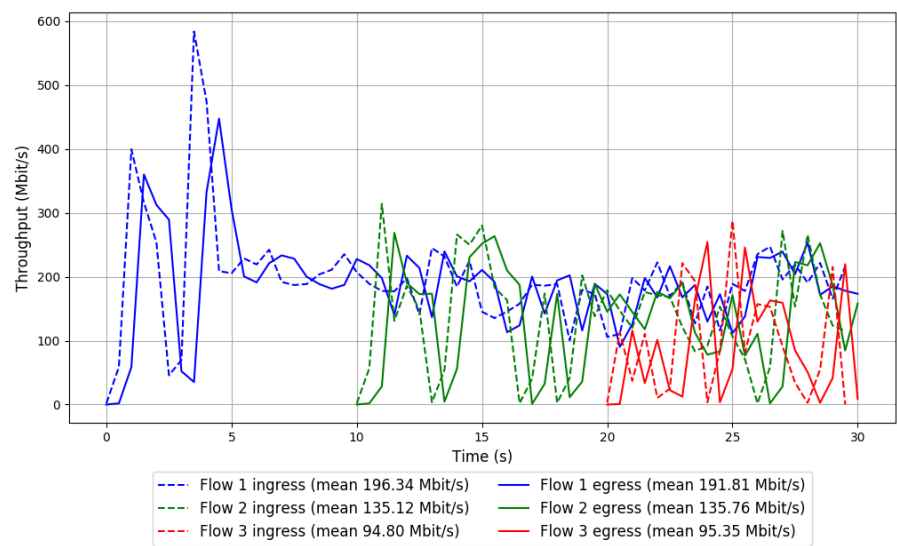


Run 6: Statistics of Verus

Start at: 2018-07-12 18:56:34  
End at: 2018-07-12 18:57:04  
Local clock offset: 0.458 ms  
Remote clock offset: 0.03 ms

# Below is generated by plot.py at 2018-07-12 23:44:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 313.21 Mbit/s  
95th percentile per-packet one-way delay: 162.977 ms  
Loss rate: 1.73%  
-- Flow 1:  
Average throughput: 191.81 Mbit/s  
95th percentile per-packet one-way delay: 168.961 ms  
Loss rate: 2.62%  
-- Flow 2:  
Average throughput: 135.76 Mbit/s  
95th percentile per-packet one-way delay: 139.739 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 95.35 Mbit/s  
95th percentile per-packet one-way delay: 212.173 ms  
Loss rate: 0.52%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-07-12 19:21:53

End at: 2018-07-12 19:22:23

Local clock offset: -0.071 ms

Remote clock offset: 0.124 ms

# Below is generated by plot.py at 2018-07-12 23:47:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 356.51 Mbit/s

95th percentile per-packet one-way delay: 195.165 ms

Loss rate: 2.15%

-- Flow 1:

Average throughput: 243.18 Mbit/s

95th percentile per-packet one-way delay: 202.966 ms

Loss rate: 2.14%

-- Flow 2:

Average throughput: 124.34 Mbit/s

95th percentile per-packet one-way delay: 162.673 ms

Loss rate: 1.04%

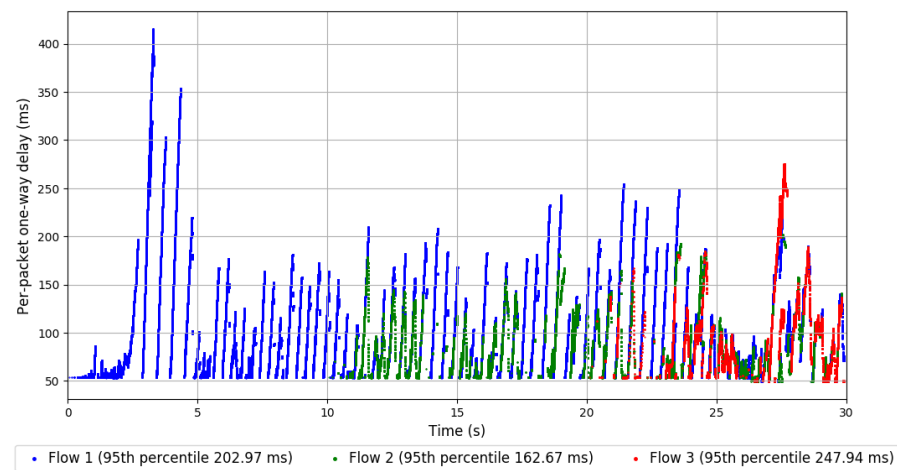
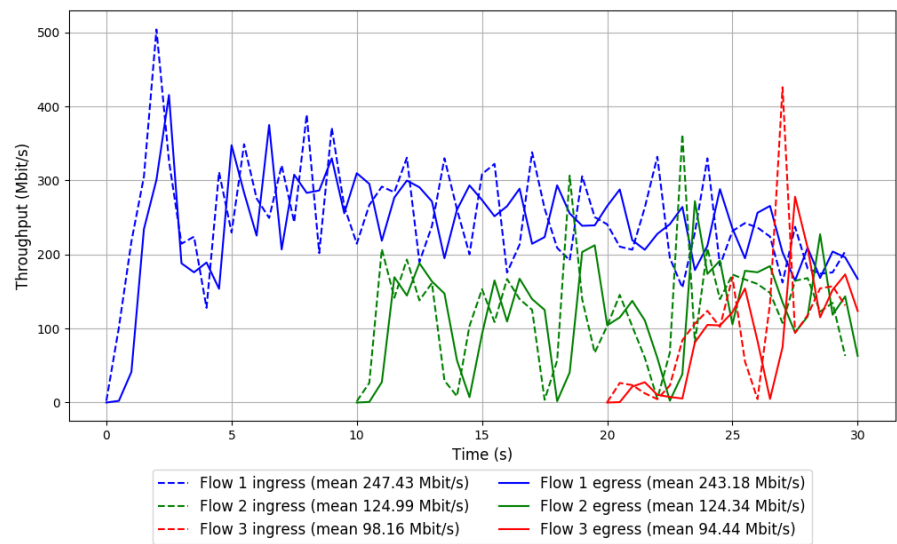
-- Flow 3:

Average throughput: 94.44 Mbit/s

95th percentile per-packet one-way delay: 247.935 ms

Loss rate: 5.02%

Run 7: Report of Verus — Data Link

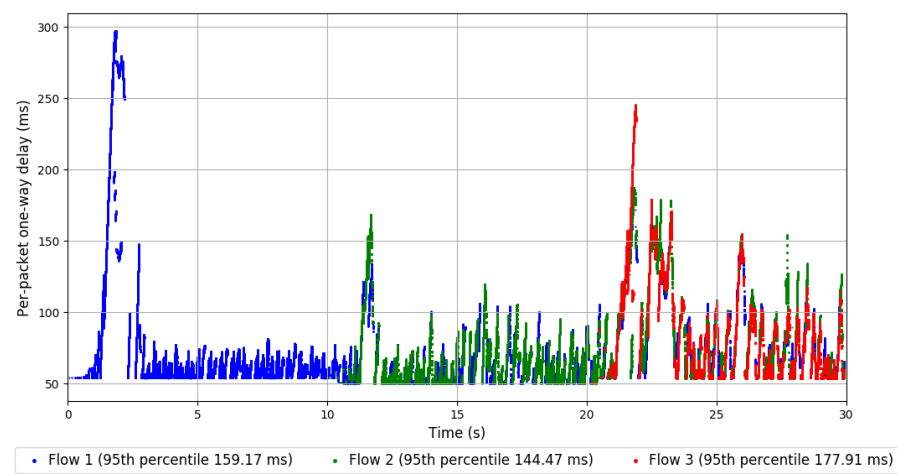
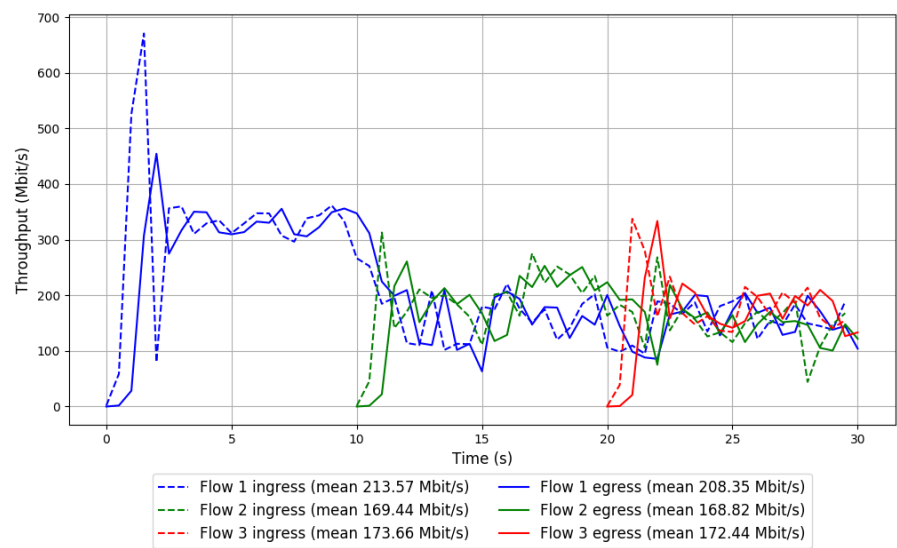


Run 8: Statistics of Verus

Start at: 2018-07-12 19:47:29  
End at: 2018-07-12 19:47:59  
Local clock offset: 0.207 ms  
Remote clock offset: -0.153 ms

# Below is generated by plot.py at 2018-07-12 23:48:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 377.14 Mbit/s  
95th percentile per-packet one-way delay: 153.567 ms  
Loss rate: 2.07%  
-- Flow 1:  
Average throughput: 208.35 Mbit/s  
95th percentile per-packet one-way delay: 159.171 ms  
Loss rate: 2.79%  
-- Flow 2:  
Average throughput: 168.82 Mbit/s  
95th percentile per-packet one-way delay: 144.471 ms  
Loss rate: 0.89%  
-- Flow 3:  
Average throughput: 172.44 Mbit/s  
95th percentile per-packet one-way delay: 177.907 ms  
Loss rate: 1.73%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-07-12 20:12:45

End at: 2018-07-12 20:13:15

Local clock offset: -0.131 ms

Remote clock offset: 0.023 ms

# Below is generated by plot.py at 2018-07-12 23:49:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 348.33 Mbit/s

95th percentile per-packet one-way delay: 192.901 ms

Loss rate: 2.51%

-- Flow 1:

Average throughput: 208.36 Mbit/s

95th percentile per-packet one-way delay: 167.971 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 183.15 Mbit/s

95th percentile per-packet one-way delay: 223.608 ms

Loss rate: 5.27%

-- Flow 3:

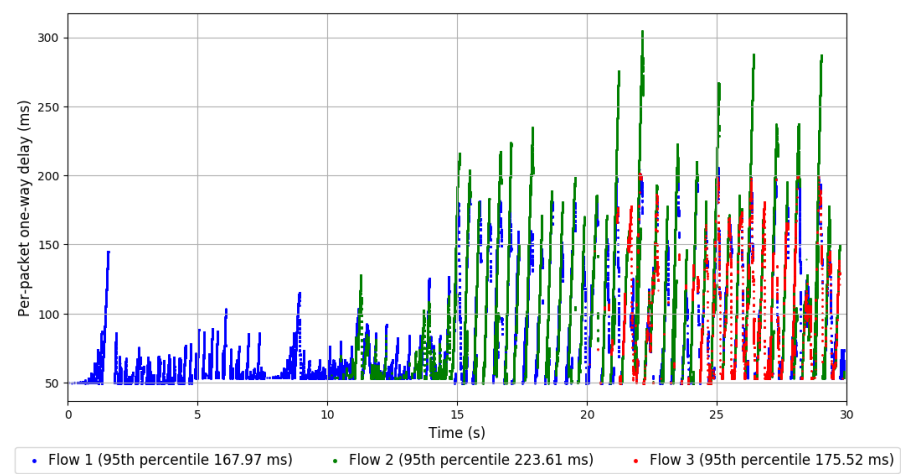
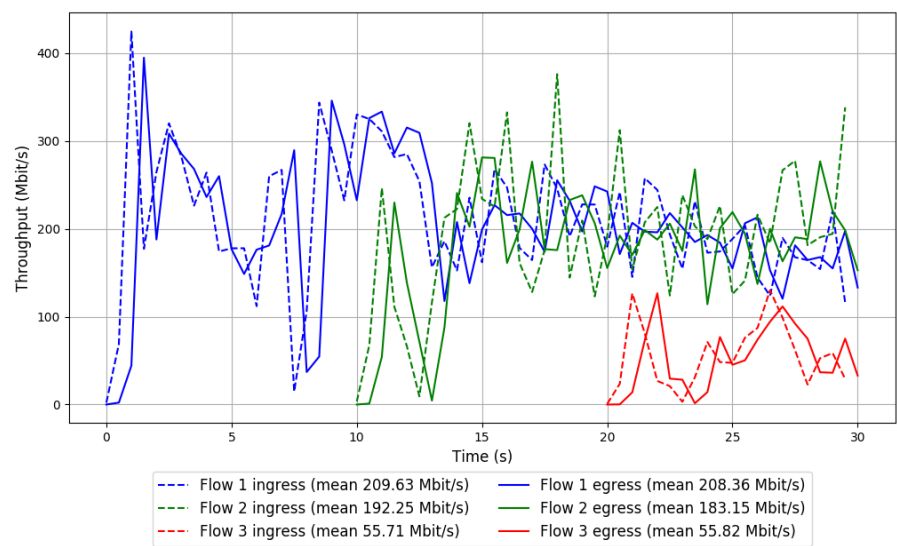
Average throughput: 55.82 Mbit/s

95th percentile per-packet one-way delay: 175.517 ms

Loss rate: 0.96%



Run 9: Report of Verus — Data Link

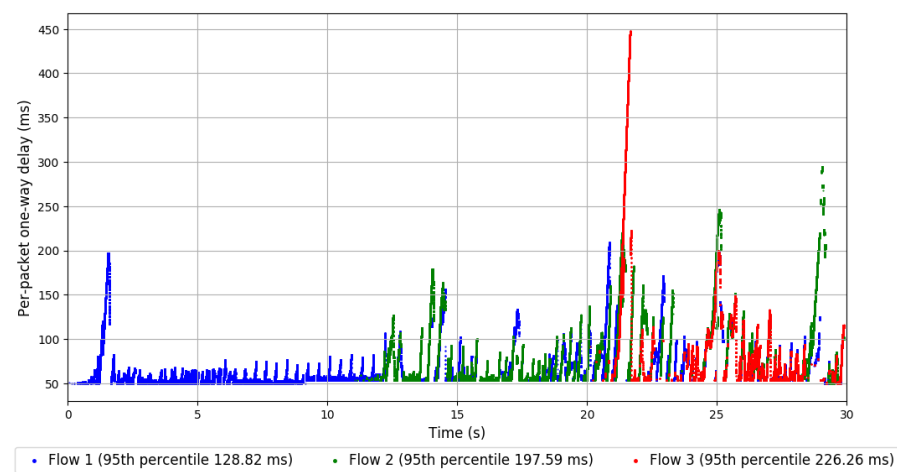
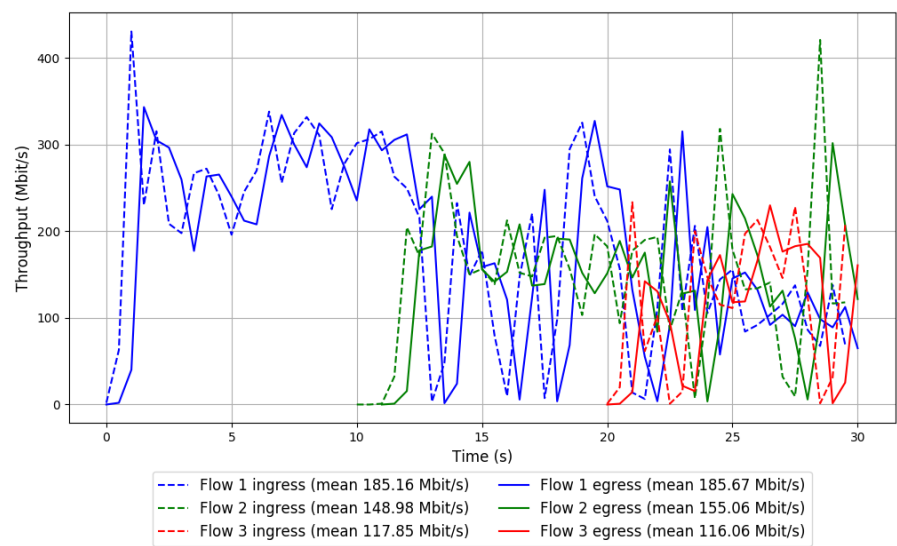


Run 10: Statistics of Verus

Start at: 2018-07-12 20:38:01  
End at: 2018-07-12 20:38:31  
Local clock offset: 0.067 ms  
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2018-07-12 23:49:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 321.14 Mbit/s  
95th percentile per-packet one-way delay: 158.550 ms  
Loss rate: 1.04%  
-- Flow 1:  
Average throughput: 185.67 Mbit/s  
95th percentile per-packet one-way delay: 128.825 ms  
Loss rate: 0.30%  
-- Flow 2:  
Average throughput: 155.06 Mbit/s  
95th percentile per-packet one-way delay: 197.587 ms  
Loss rate: 1.69%  
-- Flow 3:  
Average throughput: 116.06 Mbit/s  
95th percentile per-packet one-way delay: 226.265 ms  
Loss rate: 2.91%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-07-12 16:36:06

End at: 2018-07-12 16:36:36

Local clock offset: 0.036 ms

Remote clock offset: -0.27 ms

# Below is generated by plot.py at 2018-07-12 23:54:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 592.20 Mbit/s

95th percentile per-packet one-way delay: 116.382 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 305.46 Mbit/s

95th percentile per-packet one-way delay: 112.776 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 329.34 Mbit/s

95th percentile per-packet one-way delay: 116.371 ms

Loss rate: 0.53%

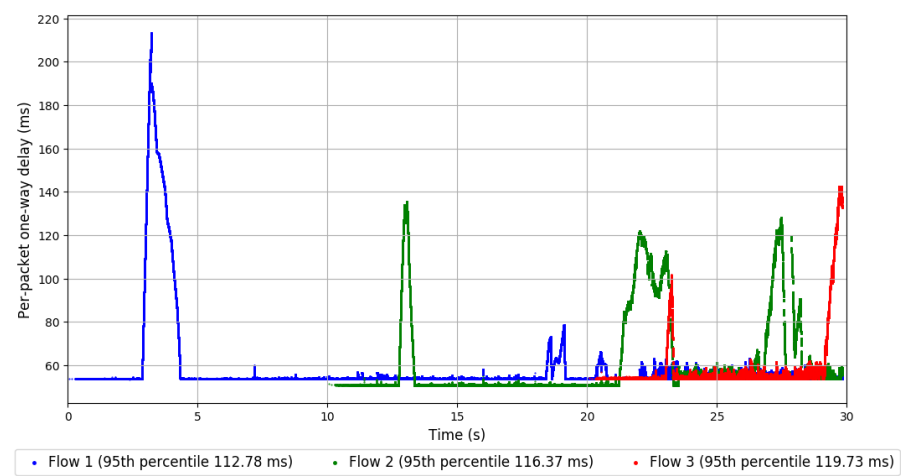
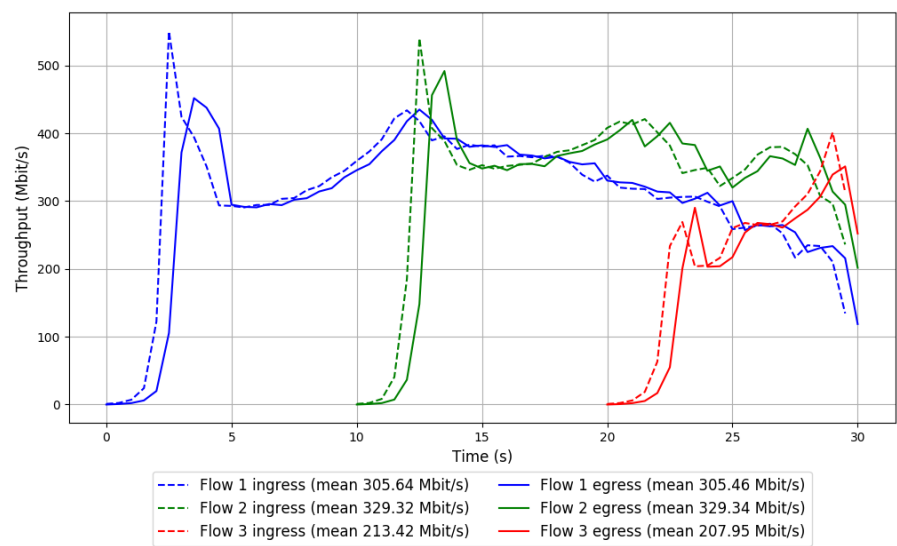
-- Flow 3:

Average throughput: 207.95 Mbit/s

95th percentile per-packet one-way delay: 119.729 ms

Loss rate: 3.64%

Run 1: Report of PCC-Vivace — Data Link

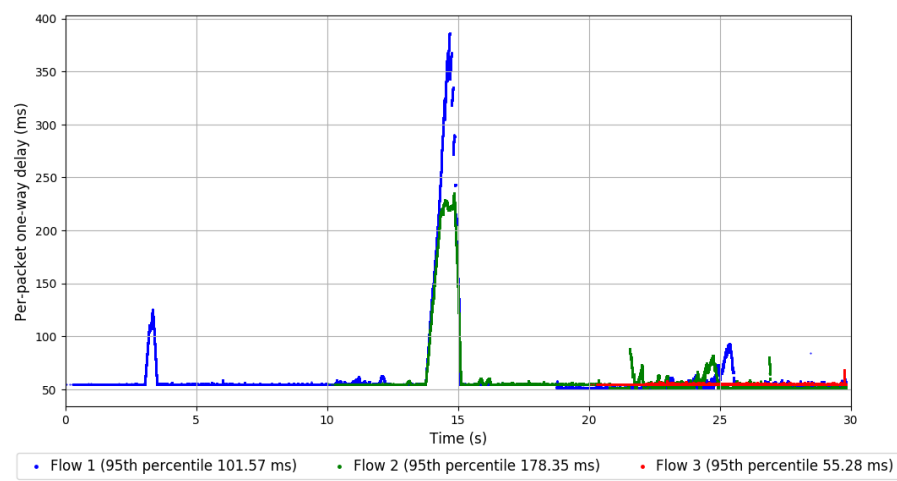
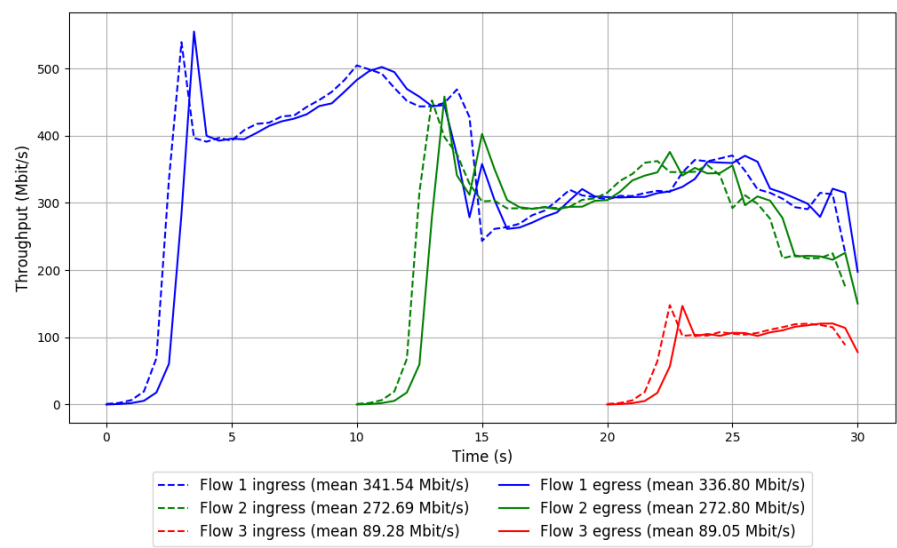


Run 2: Statistics of PCC-Vivace

Start at: 2018-07-12 17:00:59  
End at: 2018-07-12 17:01:29  
Local clock offset: -0.27 ms  
Remote clock offset: -1.334 ms

# Below is generated by plot.py at 2018-07-12 23:54:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 547.12 Mbit/s  
95th percentile per-packet one-way delay: 110.842 ms  
Loss rate: 1.30%  
-- Flow 1:  
Average throughput: 336.80 Mbit/s  
95th percentile per-packet one-way delay: 101.568 ms  
Loss rate: 1.73%  
-- Flow 2:  
Average throughput: 272.80 Mbit/s  
95th percentile per-packet one-way delay: 178.353 ms  
Loss rate: 0.49%  
-- Flow 3:  
Average throughput: 89.05 Mbit/s  
95th percentile per-packet one-way delay: 55.280 ms  
Loss rate: 1.32%

Run 2: Report of PCC-Vivace — Data Link



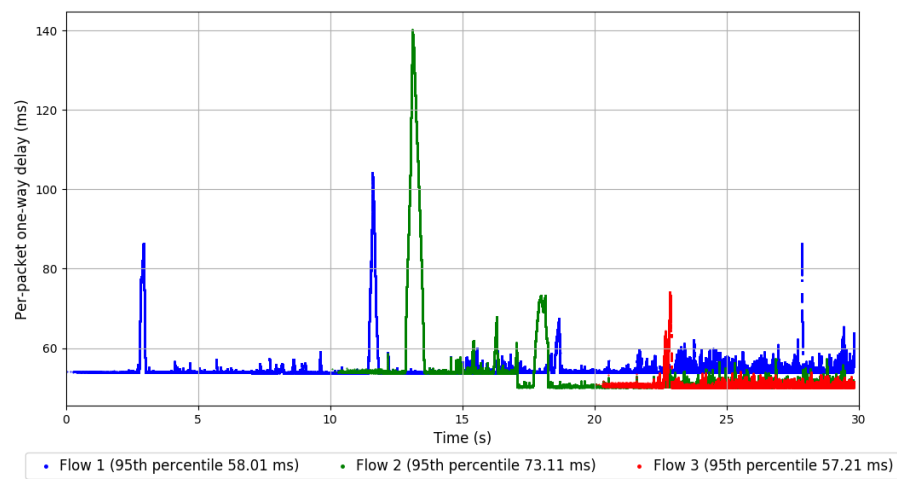
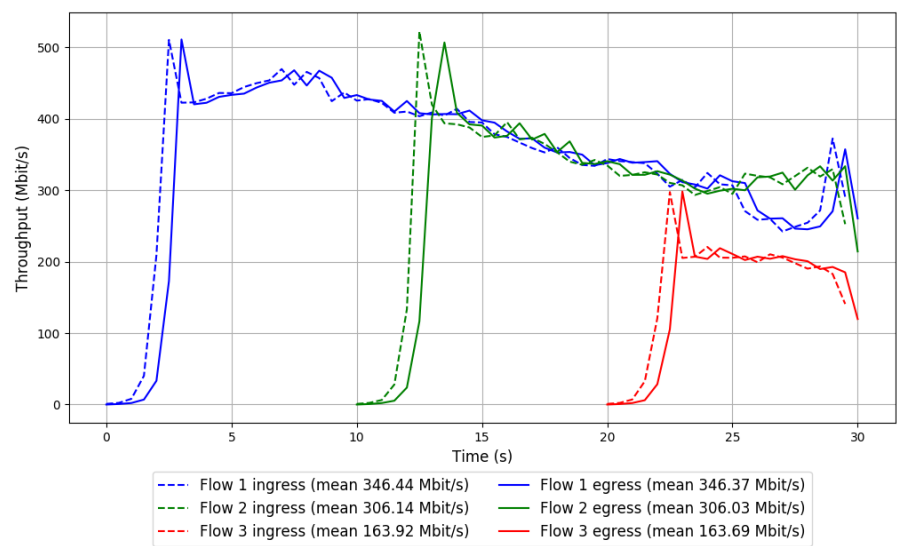
Run 3: Statistics of PCC-Vivace

Start at: 2018-07-12 17:28:33  
End at: 2018-07-12 17:29:03  
Local clock offset: -0.049 ms  
Remote clock offset: -0.374 ms

# Below is generated by plot.py at 2018-07-12 23:54:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 603.15 Mbit/s  
95th percentile per-packet one-way delay: 61.395 ms  
Loss rate: 0.53%  
-- Flow 1:  
Average throughput: 346.37 Mbit/s  
95th percentile per-packet one-way delay: 58.009 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 306.03 Mbit/s  
95th percentile per-packet one-way delay: 73.115 ms  
Loss rate: 0.59%  
-- Flow 3:  
Average throughput: 163.69 Mbit/s  
95th percentile per-packet one-way delay: 57.209 ms  
Loss rate: 1.21%



Run 3: Report of PCC-Vivace — Data Link

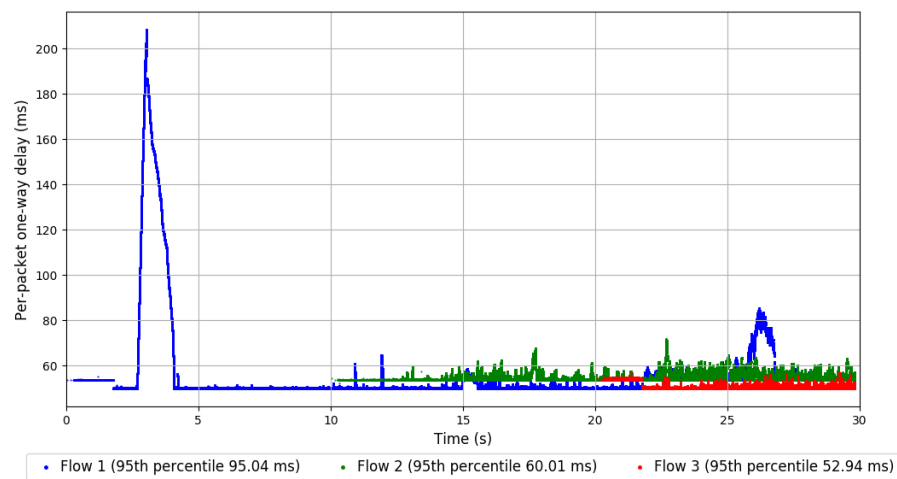
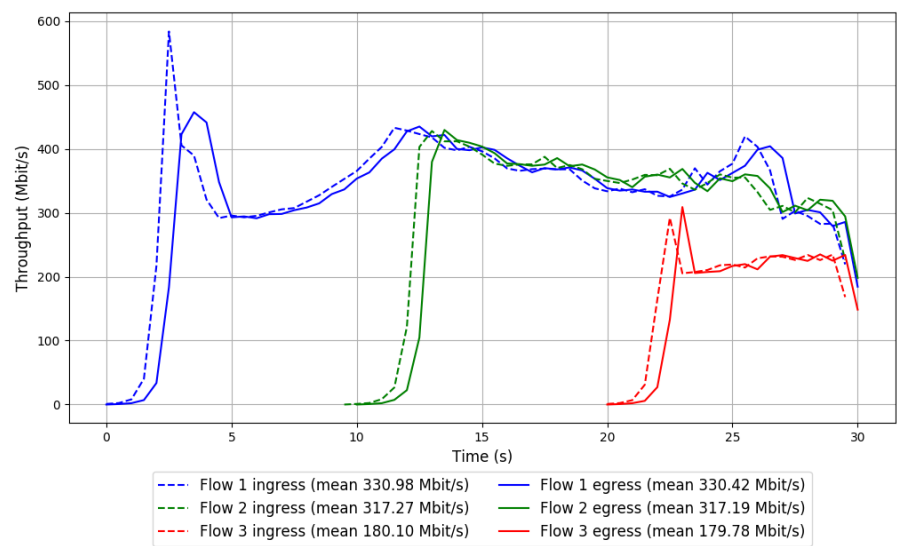


Run 4: Statistics of PCC-Vivace

Start at: 2018-07-12 17:55:18  
End at: 2018-07-12 17:55:48  
Local clock offset: -0.043 ms  
Remote clock offset: -0.288 ms

# Below is generated by plot.py at 2018-07-12 23:56:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 599.99 Mbit/s  
95th percentile per-packet one-way delay: 70.244 ms  
Loss rate: 0.60%  
-- Flow 1:  
Average throughput: 330.42 Mbit/s  
95th percentile per-packet one-way delay: 95.036 ms  
Loss rate: 0.52%  
-- Flow 2:  
Average throughput: 317.19 Mbit/s  
95th percentile per-packet one-way delay: 60.011 ms  
Loss rate: 0.55%  
-- Flow 3:  
Average throughput: 179.78 Mbit/s  
95th percentile per-packet one-way delay: 52.944 ms  
Loss rate: 1.24%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-07-12 18:20:04

End at: 2018-07-12 18:20:34

Local clock offset: 0.279 ms

Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2018-07-12 23:58:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 569.53 Mbit/s

95th percentile per-packet one-way delay: 60.964 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 341.11 Mbit/s

95th percentile per-packet one-way delay: 57.715 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 328.28 Mbit/s

95th percentile per-packet one-way delay: 125.746 ms

Loss rate: 0.34%

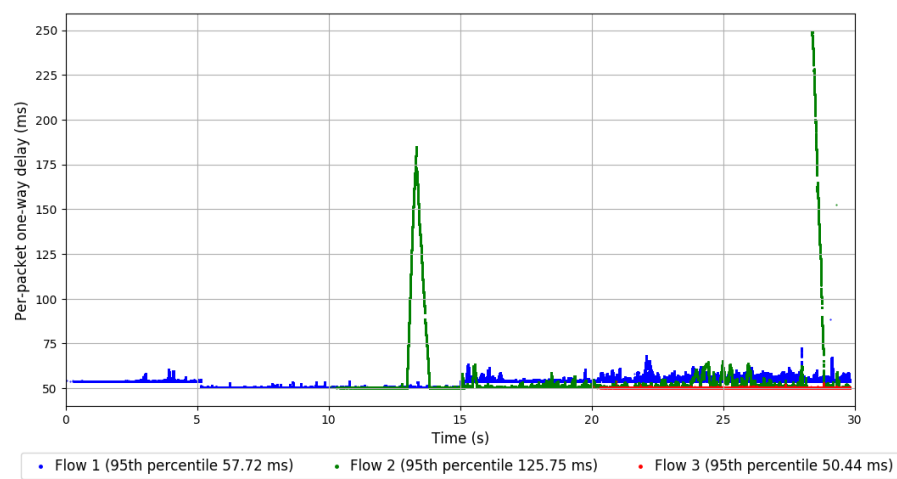
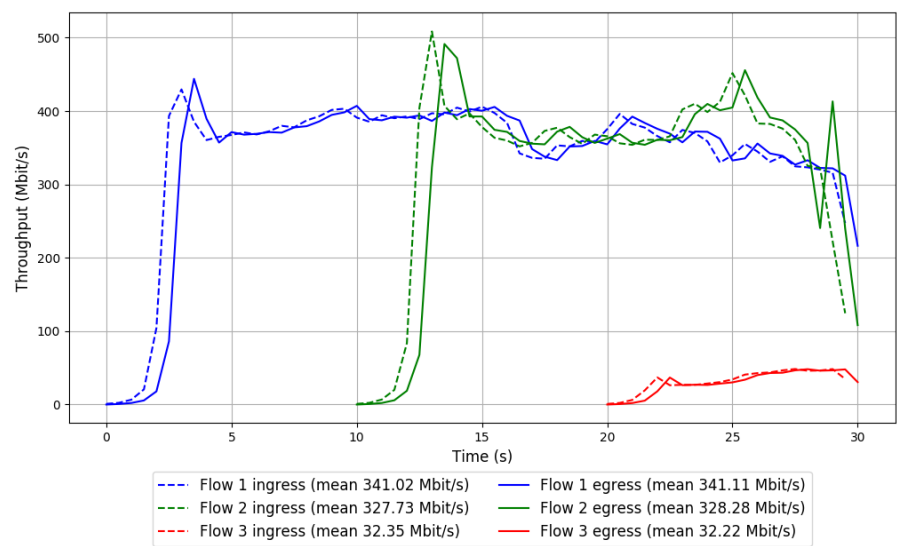
-- Flow 3:

Average throughput: 32.22 Mbit/s

95th percentile per-packet one-way delay: 50.435 ms

Loss rate: 1.43%

Run 5: Report of PCC-Vivace — Data Link

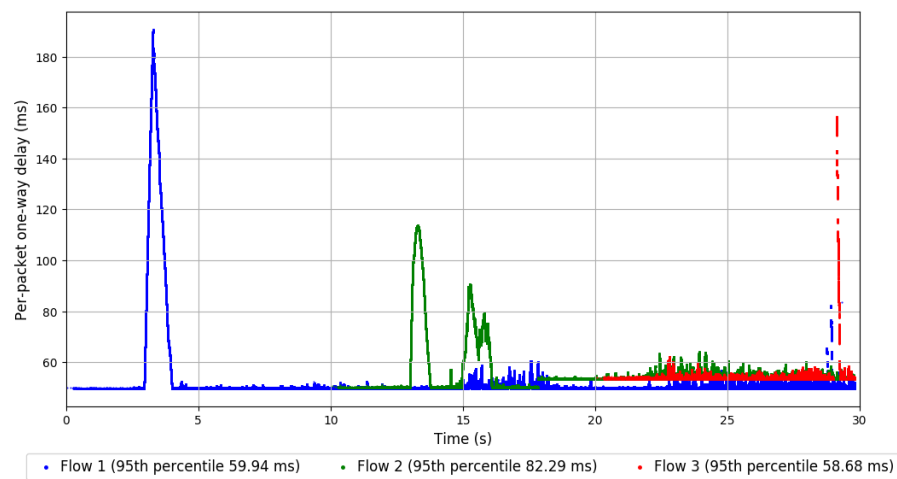
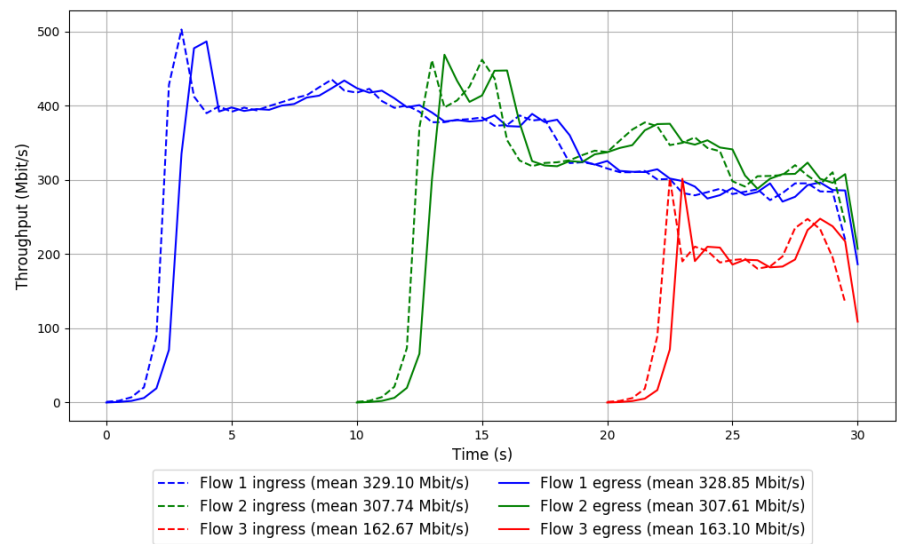


Run 6: Statistics of PCC-Vivace

Start at: 2018-07-12 18:45:10  
End at: 2018-07-12 18:45:40  
Local clock offset: -0.141 ms  
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2018-07-12 23:58:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 586.39 Mbit/s  
95th percentile per-packet one-way delay: 74.763 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 328.85 Mbit/s  
95th percentile per-packet one-way delay: 59.939 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 307.61 Mbit/s  
95th percentile per-packet one-way delay: 82.290 ms  
Loss rate: 0.55%  
-- Flow 3:  
Average throughput: 163.10 Mbit/s  
95th percentile per-packet one-way delay: 58.684 ms  
Loss rate: 0.80%

Run 6: Report of PCC-Vivace — Data Link



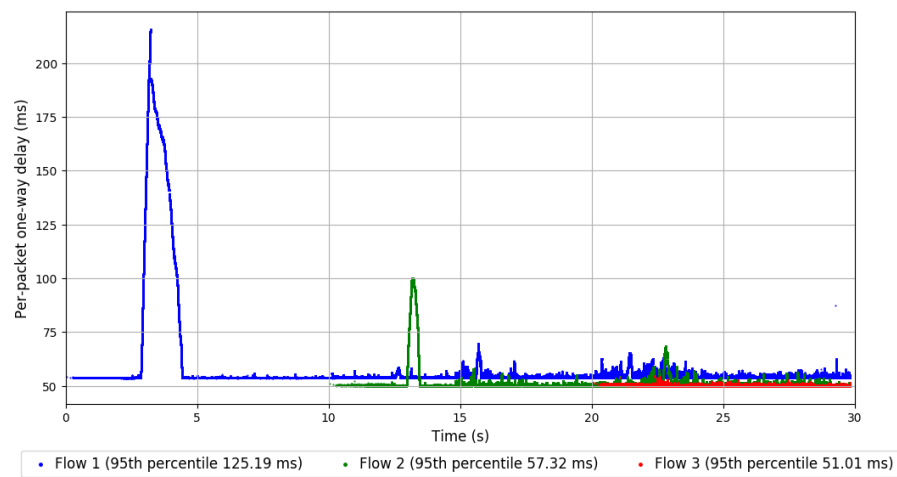
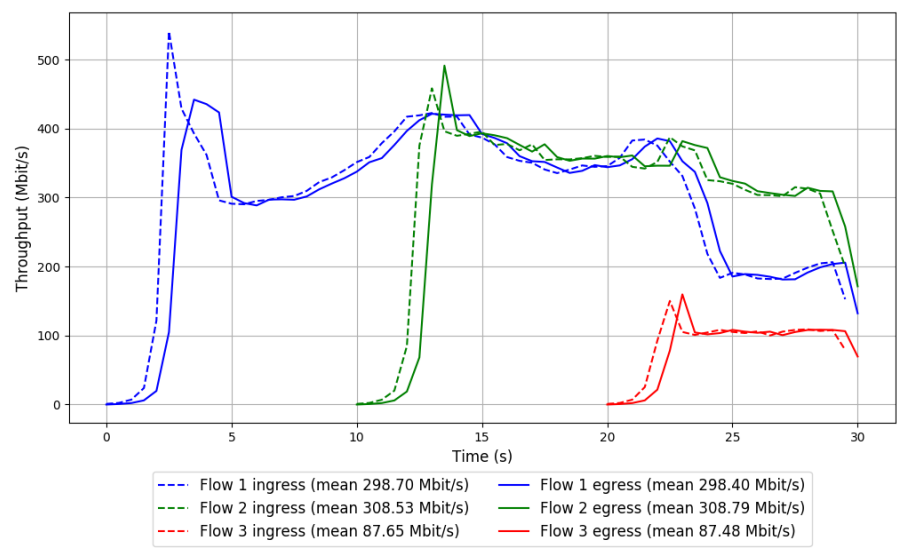
Run 7: Statistics of PCC-Vivace

Start at: 2018-07-12 19:10:39  
End at: 2018-07-12 19:11:09  
Local clock offset: -0.023 ms  
Remote clock offset: -0.233 ms

# Below is generated by plot.py at 2018-07-12 23:58:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 532.14 Mbit/s  
95th percentile per-packet one-way delay: 74.259 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 298.40 Mbit/s  
95th percentile per-packet one-way delay: 125.188 ms  
Loss rate: 0.46%  
-- Flow 2:  
Average throughput: 308.79 Mbit/s  
95th percentile per-packet one-way delay: 57.322 ms  
Loss rate: 0.43%  
-- Flow 3:  
Average throughput: 87.48 Mbit/s  
95th percentile per-packet one-way delay: 51.007 ms  
Loss rate: 1.22%



Run 7: Report of PCC-Vivace — Data Link

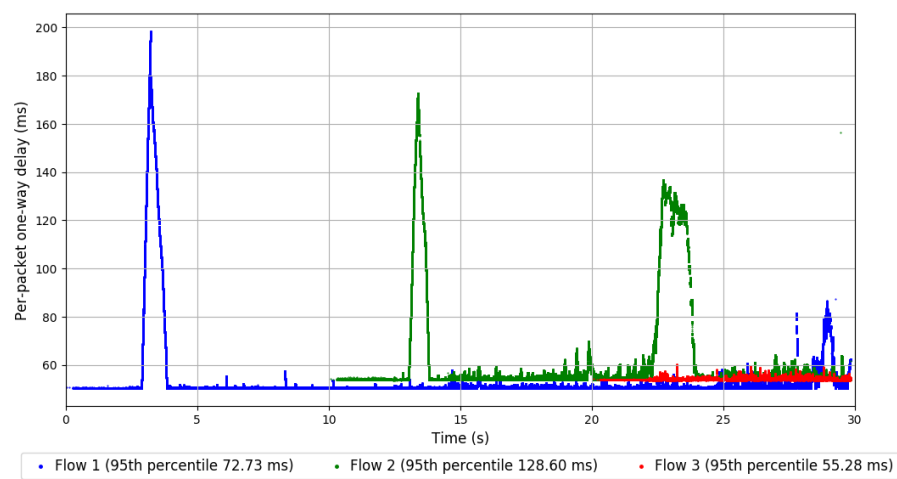
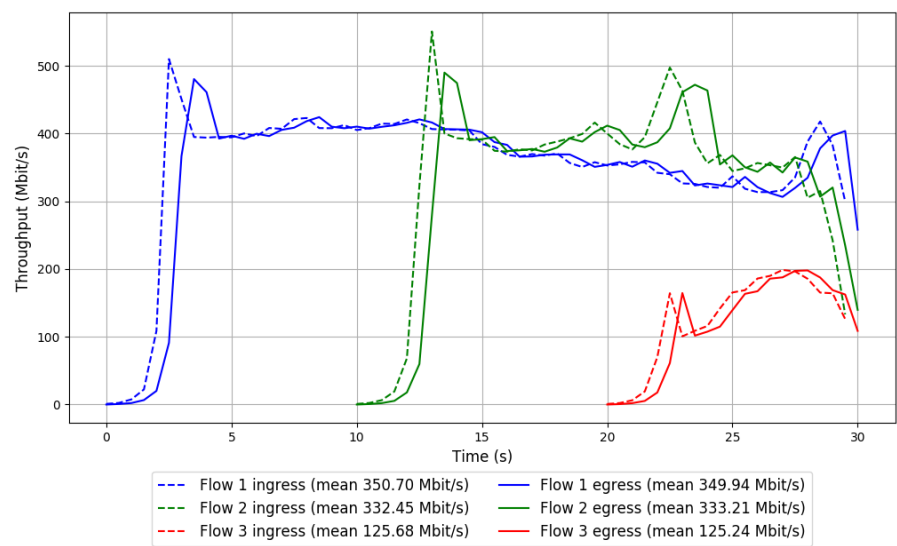


Run 8: Statistics of PCC-Vivace

Start at: 2018-07-12 19:35:57  
End at: 2018-07-12 19:36:27  
Local clock offset: 0.107 ms  
Remote clock offset: -0.139 ms

# Below is generated by plot.py at 2018-07-12 23:59:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 612.07 Mbit/s  
95th percentile per-packet one-way delay: 116.962 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 349.94 Mbit/s  
95th percentile per-packet one-way delay: 72.732 ms  
Loss rate: 0.56%  
-- Flow 2:  
Average throughput: 333.21 Mbit/s  
95th percentile per-packet one-way delay: 128.600 ms  
Loss rate: 0.26%  
-- Flow 3:  
Average throughput: 125.24 Mbit/s  
95th percentile per-packet one-way delay: 55.285 ms  
Loss rate: 1.42%

Run 8: Report of PCC-Vivace — Data Link

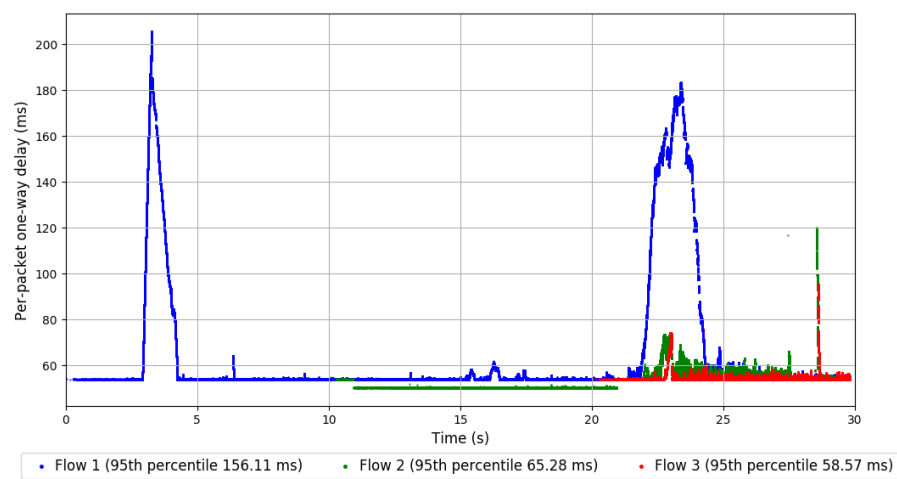
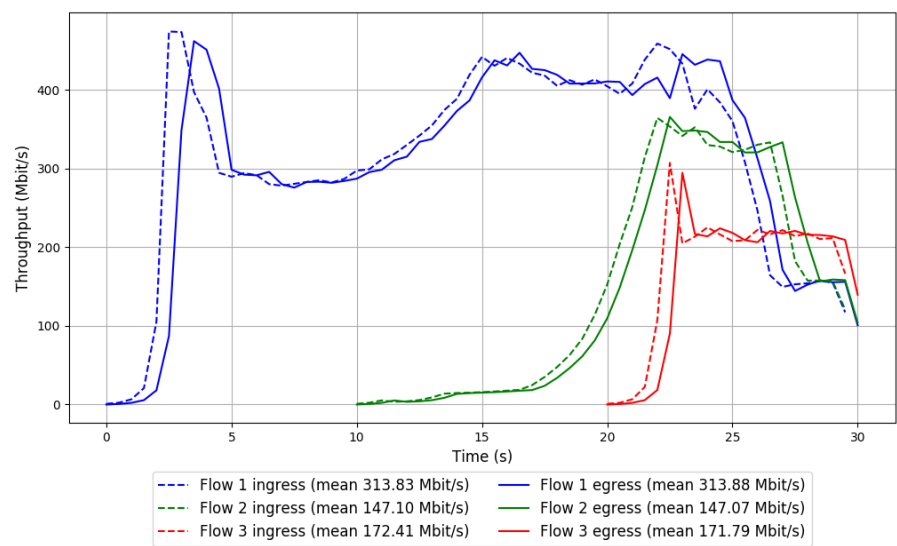


Run 9: Statistics of PCC-Vivace

Start at: 2018-07-12 20:01:29  
End at: 2018-07-12 20:01:59  
Local clock offset: 0.249 ms  
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2018-07-12 23:59:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 467.78 Mbit/s  
95th percentile per-packet one-way delay: 148.316 ms  
Loss rate: 0.53%  
-- Flow 1:  
Average throughput: 313.88 Mbit/s  
95th percentile per-packet one-way delay: 156.113 ms  
Loss rate: 0.34%  
-- Flow 2:  
Average throughput: 147.07 Mbit/s  
95th percentile per-packet one-way delay: 65.282 ms  
Loss rate: 0.57%  
-- Flow 3:  
Average throughput: 171.79 Mbit/s  
95th percentile per-packet one-way delay: 58.566 ms  
Loss rate: 1.49%

Run 9: Report of PCC-Vivace — Data Link

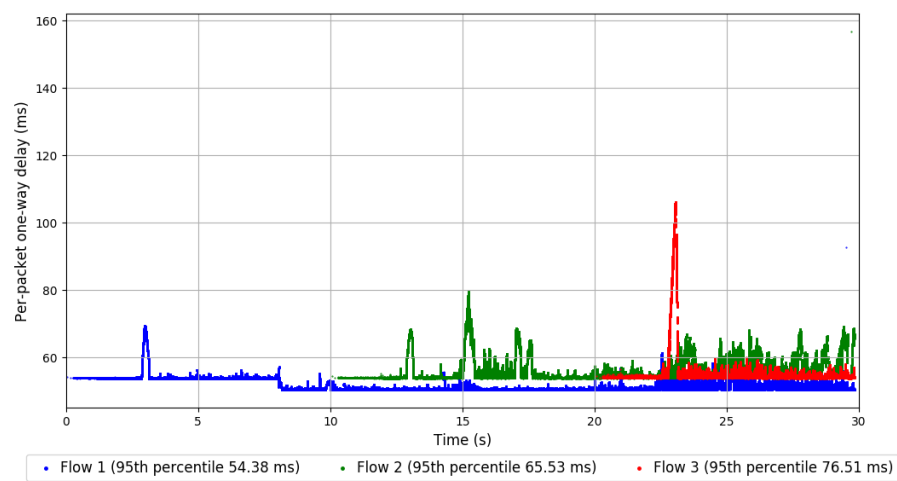
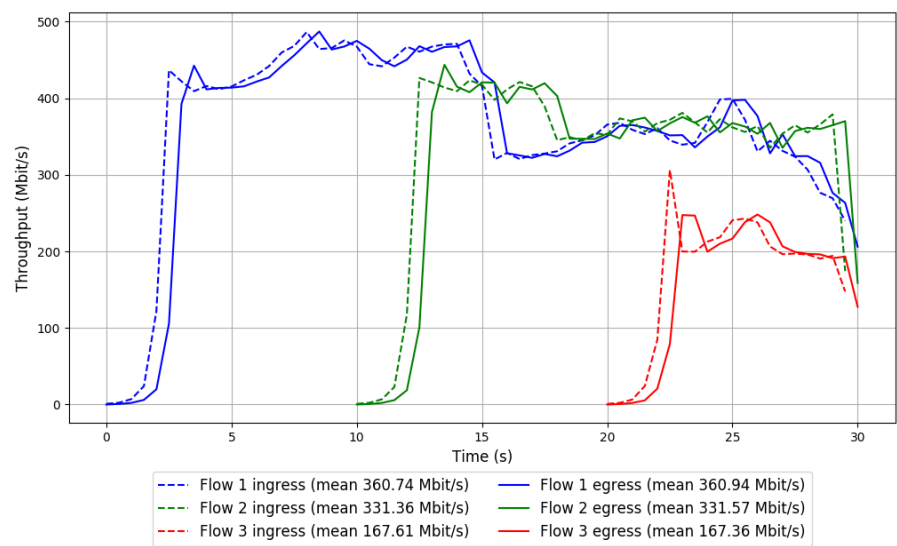


Run 10: Statistics of PCC-Vivace

Start at: 2018-07-12 20:26:32  
End at: 2018-07-12 20:27:02  
Local clock offset: 0.23 ms  
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2018-07-13 00:00:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 635.80 Mbit/s  
95th percentile per-packet one-way delay: 62.128 ms  
Loss rate: 0.45%  
-- Flow 1:  
Average throughput: 360.94 Mbit/s  
95th percentile per-packet one-way delay: 54.379 ms  
Loss rate: 0.31%  
-- Flow 2:  
Average throughput: 331.57 Mbit/s  
95th percentile per-packet one-way delay: 65.534 ms  
Loss rate: 0.48%  
-- Flow 3:  
Average throughput: 167.36 Mbit/s  
95th percentile per-packet one-way delay: 76.513 ms  
Loss rate: 1.25%

Run 10: Report of PCC-Vivace — Data Link



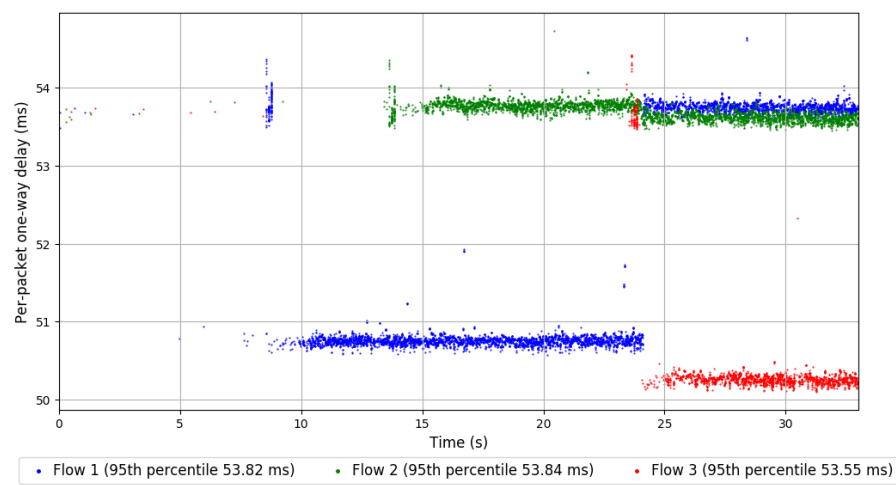
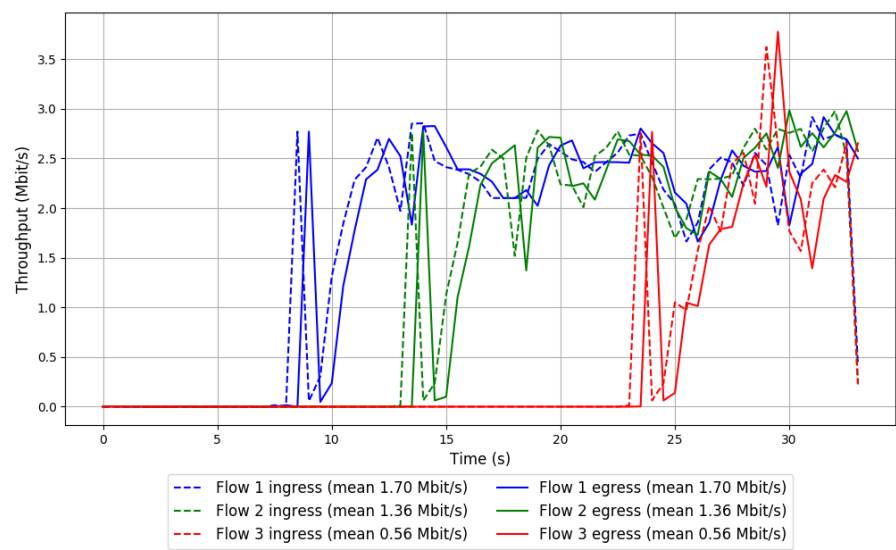
Run 1: Statistics of WebRTC media

Start at: 2018-07-12 16:43:19  
End at: 2018-07-12 16:43:49  
Local clock offset: -0.016 ms  
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2018-07-13 00:00:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.59 Mbit/s  
95th percentile per-packet one-way delay: 53.828 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 1.70 Mbit/s  
95th percentile per-packet one-way delay: 53.817 ms  
Loss rate: 0.74%  
-- Flow 2:  
Average throughput: 1.36 Mbit/s  
95th percentile per-packet one-way delay: 53.844 ms  
Loss rate: 0.67%  
-- Flow 3:  
Average throughput: 0.56 Mbit/s  
95th percentile per-packet one-way delay: 53.545 ms  
Loss rate: 1.57%



Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-07-12 17:09:08

End at: 2018-07-12 17:09:38

Local clock offset: 0.236 ms

Remote clock offset: -1.53 ms

# Below is generated by plot.py at 2018-07-13 00:00:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.88 Mbit/s

95th percentile per-packet one-way delay: 55.442 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 55.407 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 1.35 Mbit/s

95th percentile per-packet one-way delay: 55.445 ms

Loss rate: 0.61%

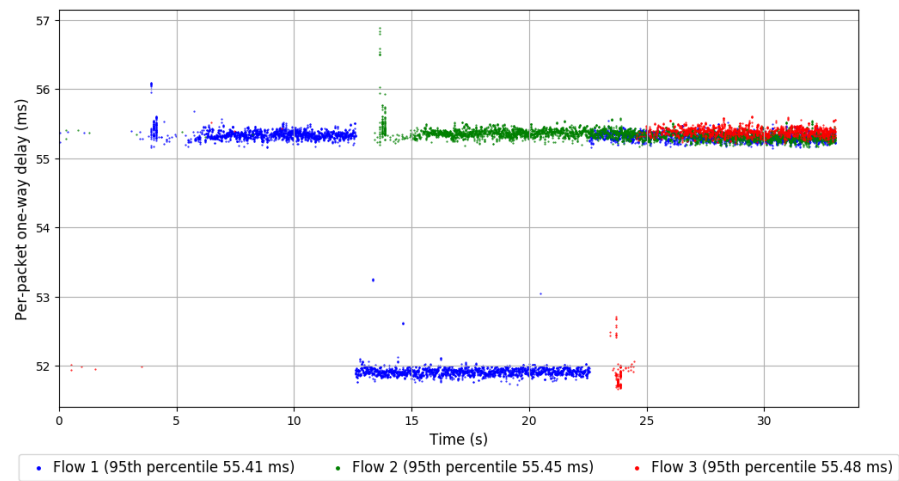
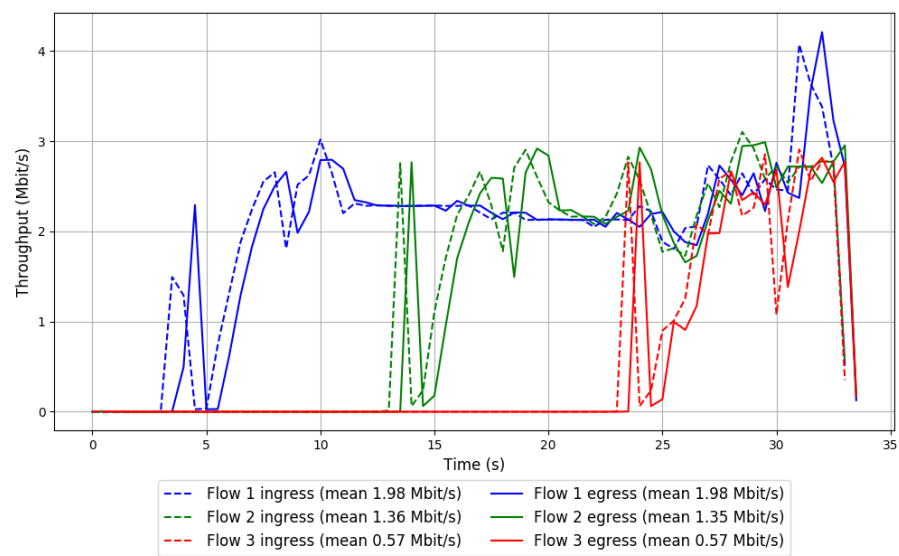
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 55.476 ms

Loss rate: 1.54%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-07-12 17:37:12

End at: 2018-07-12 17:37:42

Local clock offset: -0.191 ms

Remote clock offset: 0.217 ms

# Below is generated by plot.py at 2018-07-13 00:00:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 53.227 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 50.235 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 53.260 ms

Loss rate: 0.64%

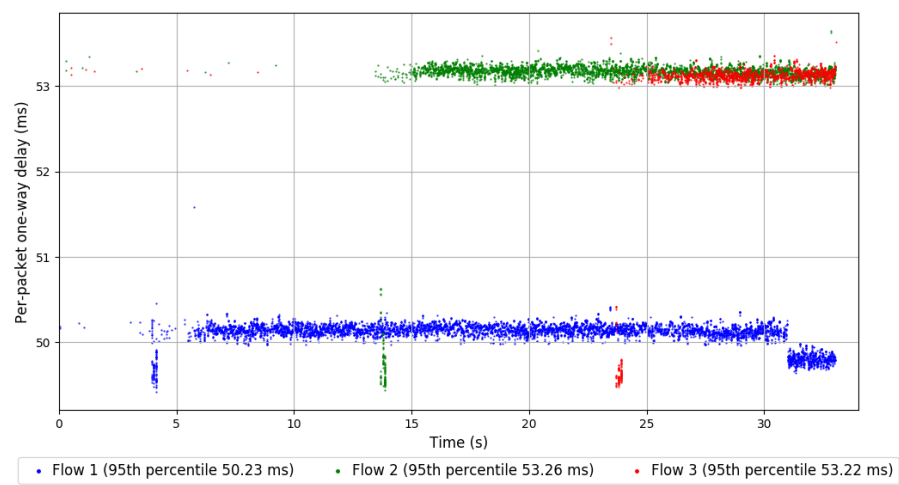
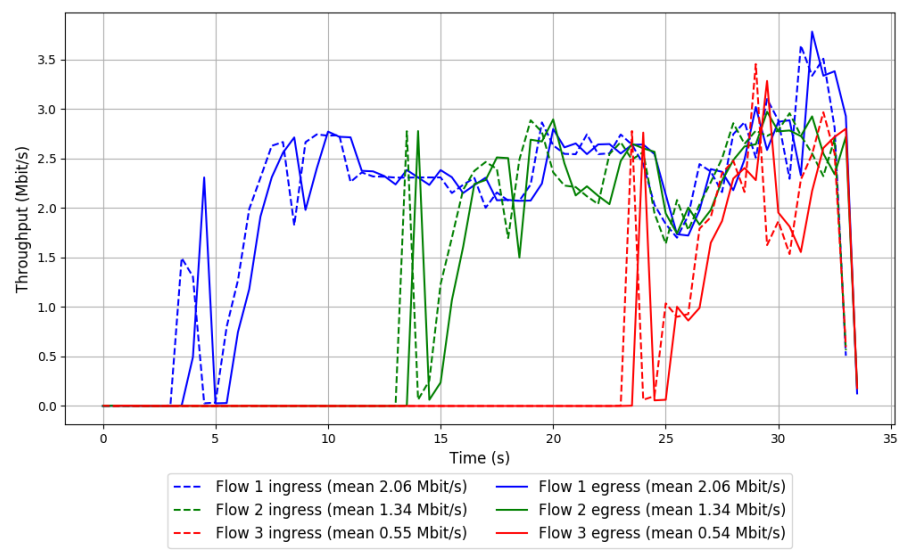
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 53.216 ms

Loss rate: 1.65%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-07-12 18:02:33

End at: 2018-07-12 18:03:03

Local clock offset: 0.136 ms

Remote clock offset: 0.418 ms

# Below is generated by plot.py at 2018-07-13 00:00:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 53.363 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 53.384 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 50.369 ms

Loss rate: 0.70%

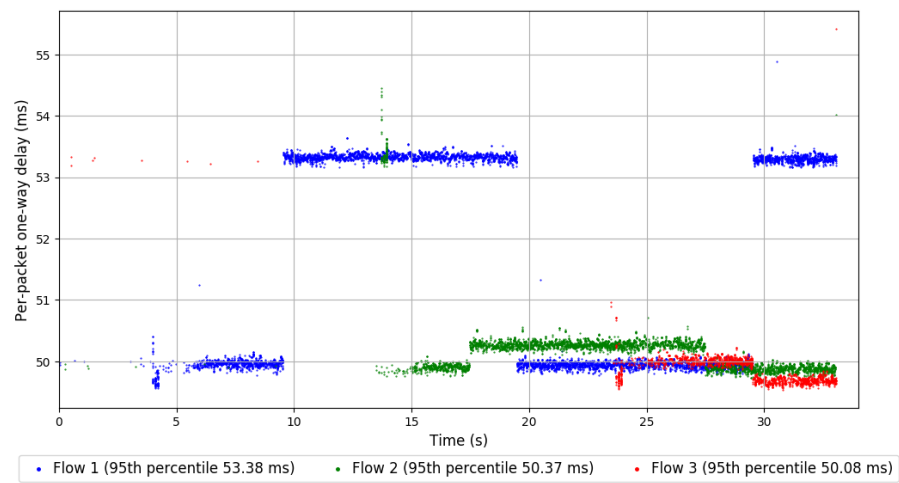
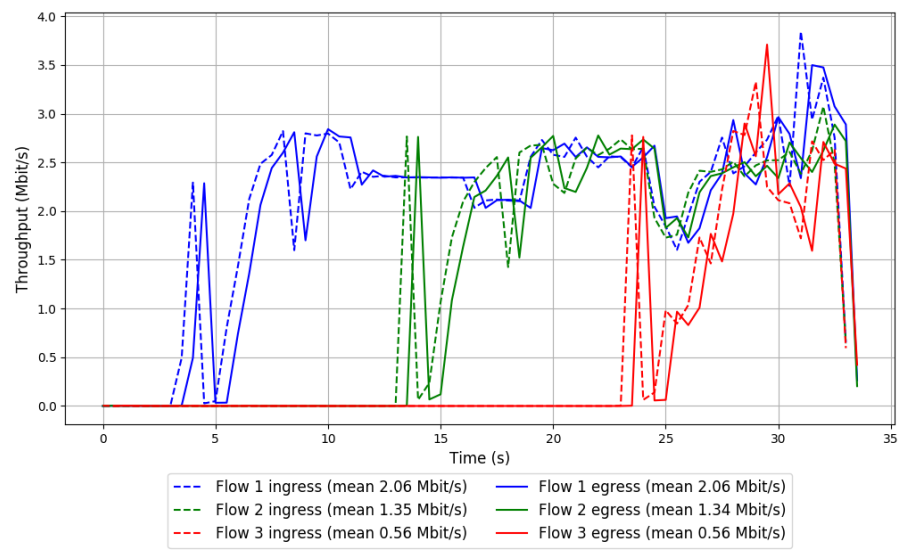
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 50.084 ms

Loss rate: 1.56%

Run 4: Report of WebRTC media — Data Link



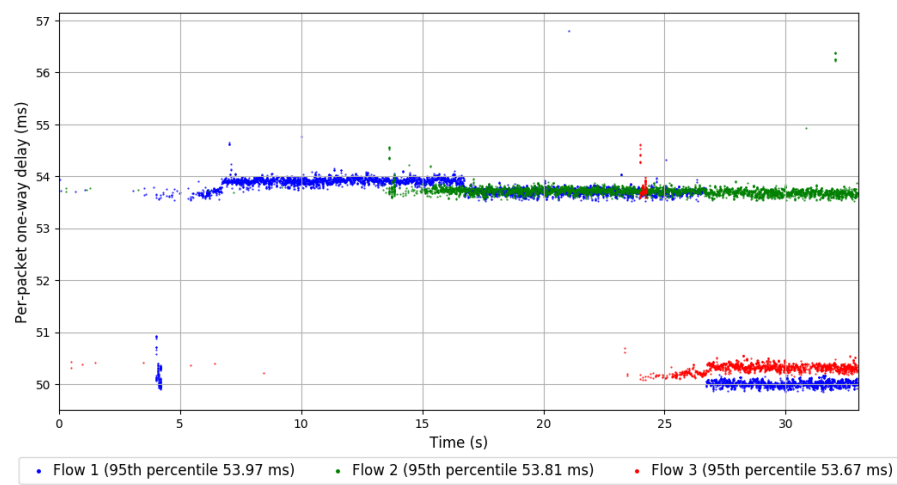
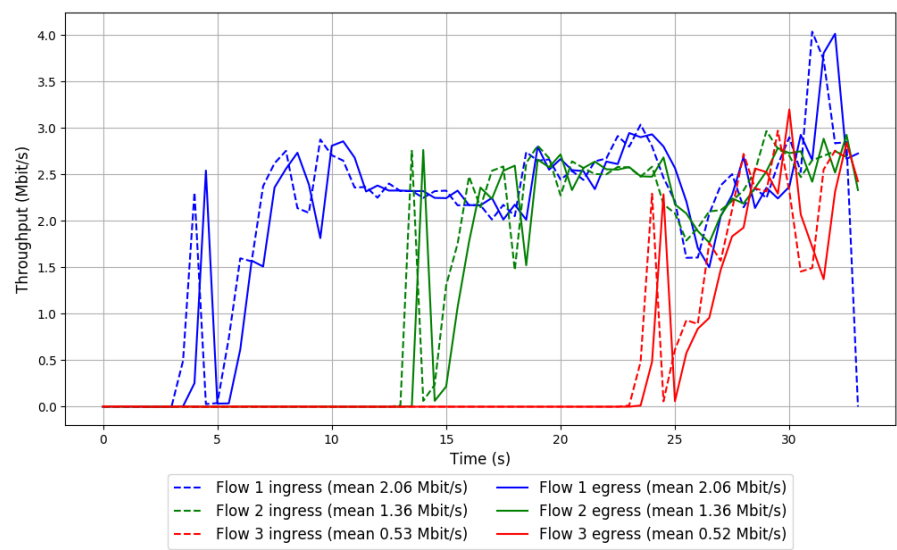
Run 5: Statistics of WebRTC media

Start at: 2018-07-12 18:27:26  
End at: 2018-07-12 18:27:56  
Local clock offset: 0.003 ms  
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2018-07-13 00:00:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.92 Mbit/s  
95th percentile per-packet one-way delay: 53.947 ms  
Loss rate: 0.63%  
-- Flow 1:  
Average throughput: 2.06 Mbit/s  
95th percentile per-packet one-way delay: 53.968 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 1.36 Mbit/s  
95th percentile per-packet one-way delay: 53.806 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 0.52 Mbit/s  
95th percentile per-packet one-way delay: 53.673 ms  
Loss rate: 1.68%



Run 5: Report of WebRTC media — Data Link

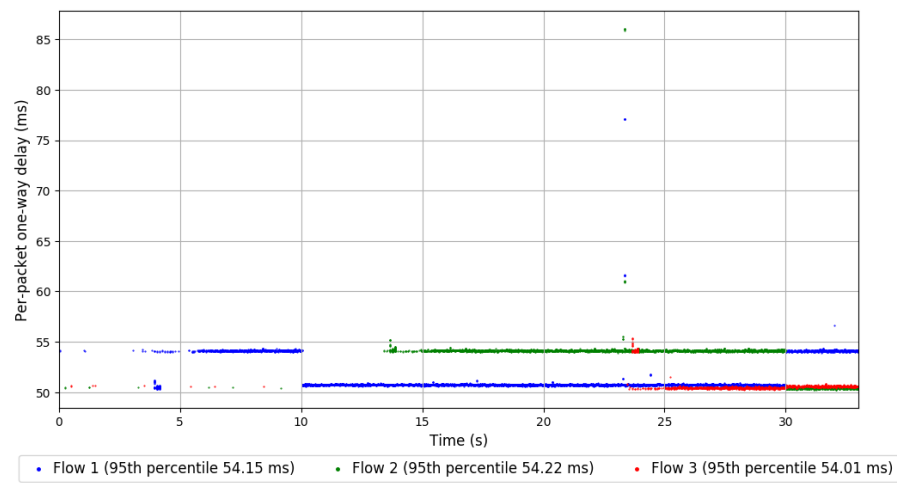
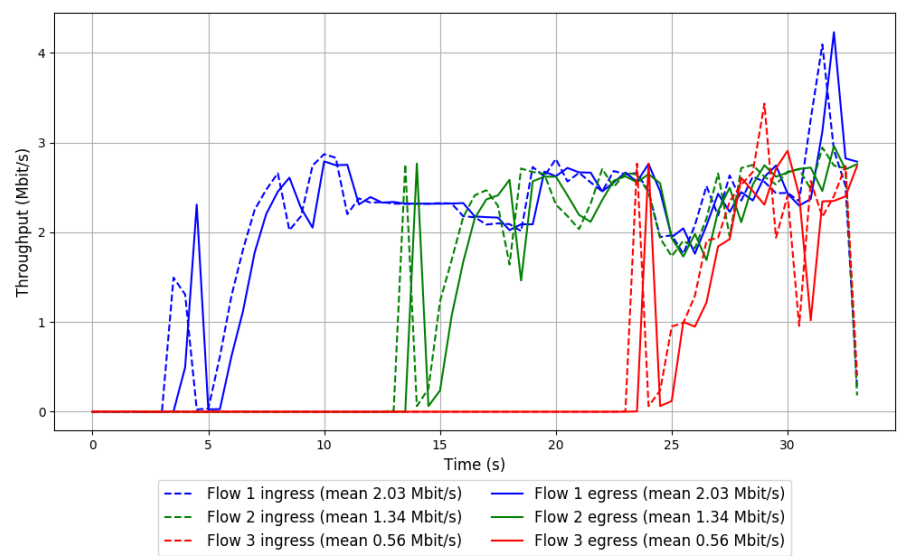


Run 6: Statistics of WebRTC media

Start at: 2018-07-12 18:52:33  
End at: 2018-07-12 18:53:03  
Local clock offset: 0.122 ms  
Remote clock offset: -0.358 ms

# Below is generated by plot.py at 2018-07-13 00:00:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.91 Mbit/s  
95th percentile per-packet one-way delay: 54.182 ms  
Loss rate: 0.52%  
-- Flow 1:  
Average throughput: 2.03 Mbit/s  
95th percentile per-packet one-way delay: 54.151 ms  
Loss rate: 0.30%  
-- Flow 2:  
Average throughput: 1.34 Mbit/s  
95th percentile per-packet one-way delay: 54.217 ms  
Loss rate: 0.42%  
-- Flow 3:  
Average throughput: 0.56 Mbit/s  
95th percentile per-packet one-way delay: 54.006 ms  
Loss rate: 1.58%

Run 6: Report of WebRTC media — Data Link

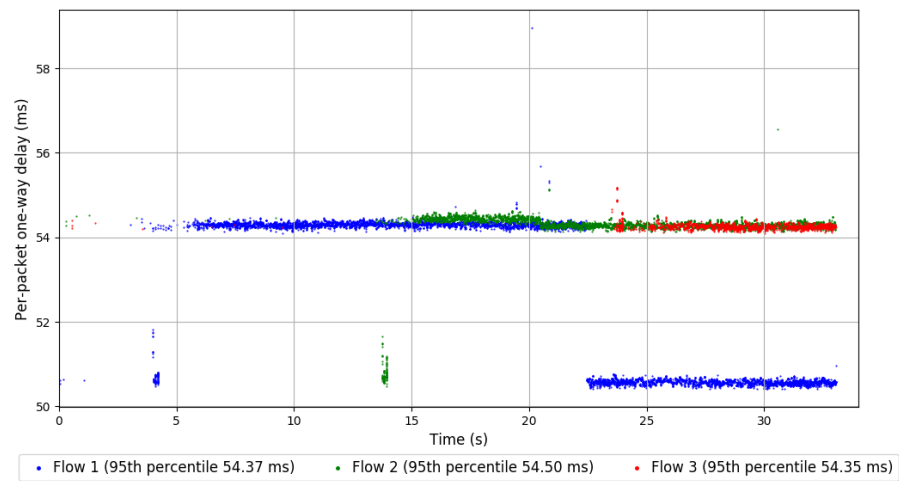
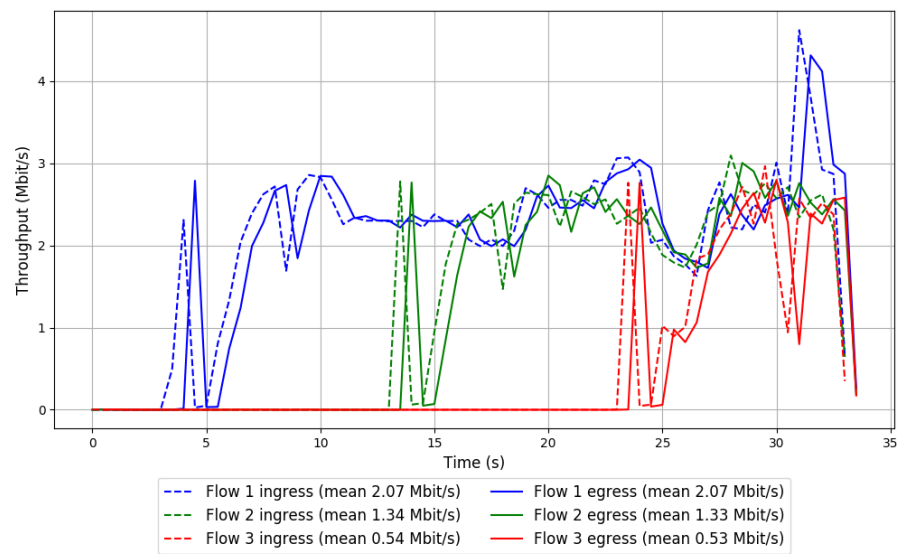


Run 7: Statistics of WebRTC media

Start at: 2018-07-12 19:18:00  
End at: 2018-07-12 19:18:30  
Local clock offset: 0.535 ms  
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2018-07-13 00:00:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.91 Mbit/s  
95th percentile per-packet one-way delay: 54.445 ms  
Loss rate: 0.63%  
-- Flow 1:  
Average throughput: 2.07 Mbit/s  
95th percentile per-packet one-way delay: 54.370 ms  
Loss rate: 0.47%  
-- Flow 2:  
Average throughput: 1.33 Mbit/s  
95th percentile per-packet one-way delay: 54.498 ms  
Loss rate: 0.73%  
-- Flow 3:  
Average throughput: 0.53 Mbit/s  
95th percentile per-packet one-way delay: 54.350 ms  
Loss rate: 0.99%

Run 7: Report of WebRTC media — Data Link

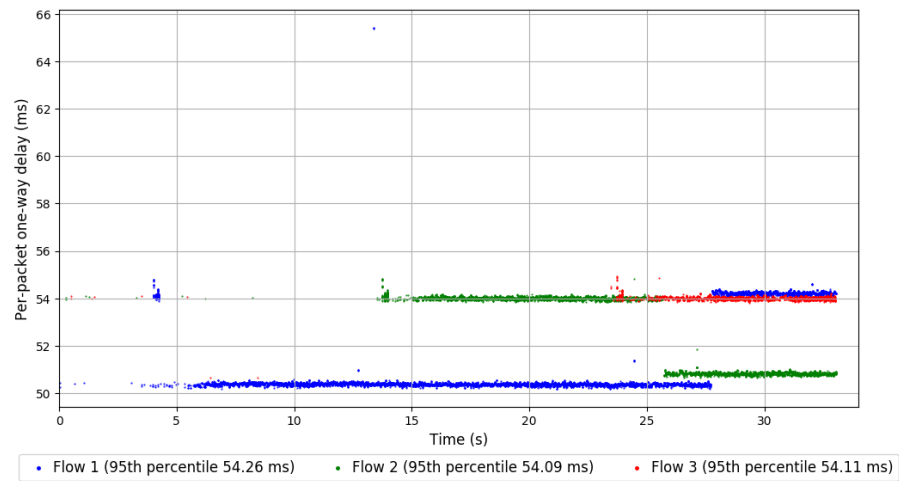
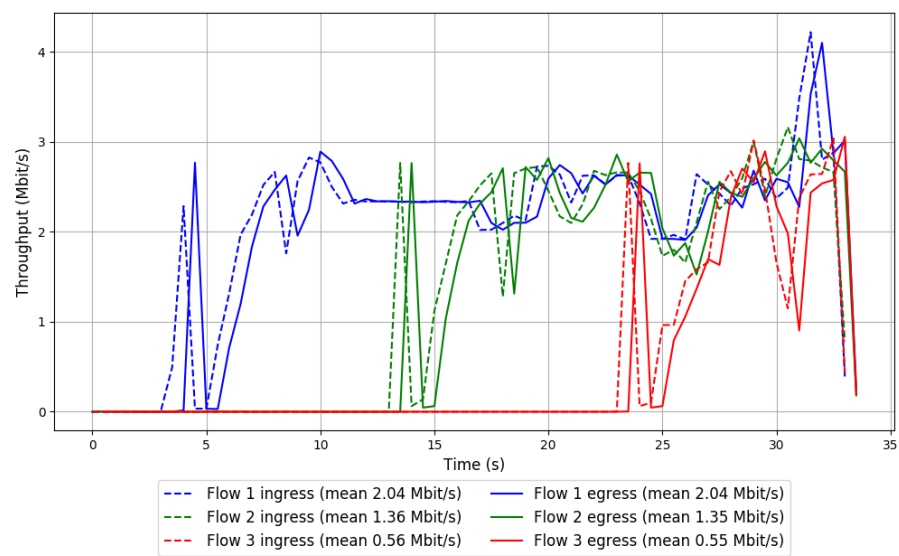


Run 8: Statistics of WebRTC media

Start at: 2018-07-12 19:43:25  
End at: 2018-07-12 19:43:55  
Local clock offset: 0.156 ms  
Remote clock offset: -0.238 ms

# Below is generated by plot.py at 2018-07-13 00:00:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.92 Mbit/s  
95th percentile per-packet one-way delay: 54.227 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 2.04 Mbit/s  
95th percentile per-packet one-way delay: 54.255 ms  
Loss rate: 0.29%  
-- Flow 2:  
Average throughput: 1.35 Mbit/s  
95th percentile per-packet one-way delay: 54.089 ms  
Loss rate: 0.88%  
-- Flow 3:  
Average throughput: 0.55 Mbit/s  
95th percentile per-packet one-way delay: 54.109 ms  
Loss rate: 1.64%

Run 8: Report of WebRTC media — Data Link



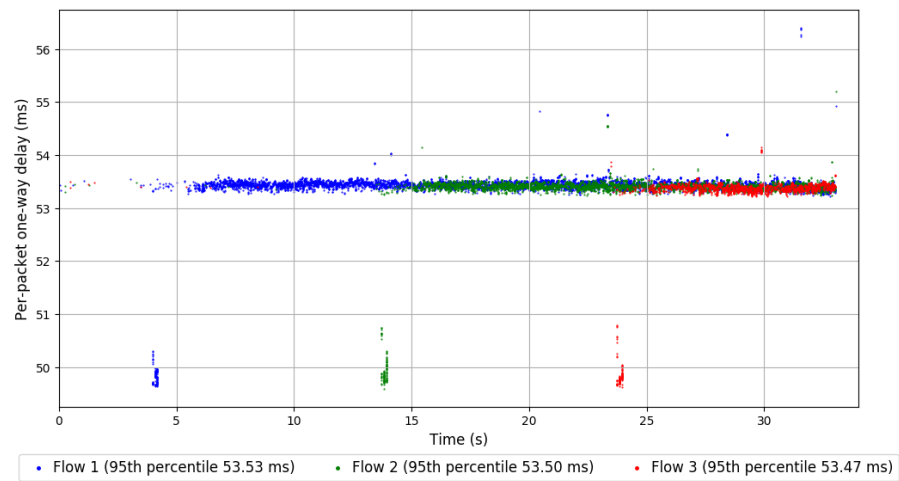
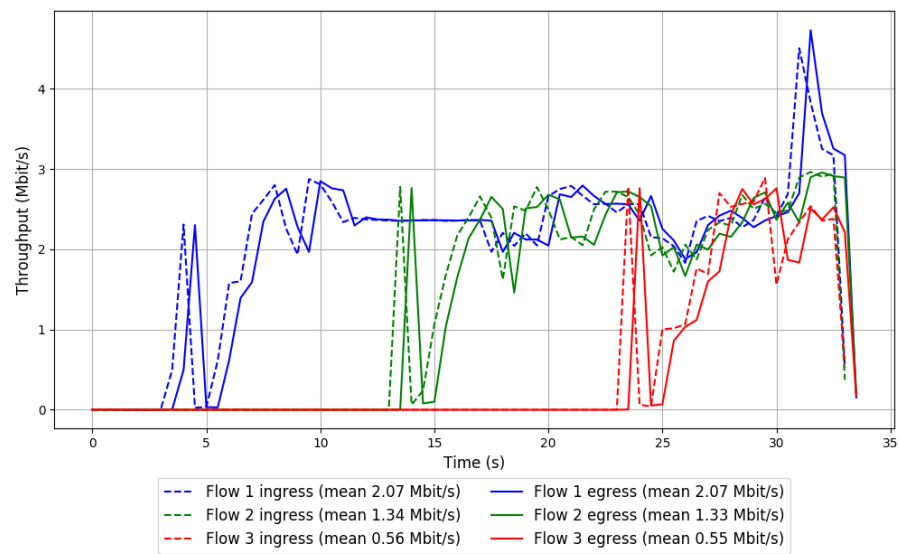
Run 9: Statistics of WebRTC media

Start at: 2018-07-12 20:08:41  
End at: 2018-07-12 20:09:11  
Local clock offset: -0.158 ms  
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2018-07-13 00:00:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.94 Mbit/s  
95th percentile per-packet one-way delay: 53.521 ms  
Loss rate: 0.75%  
-- Flow 1:  
Average throughput: 2.07 Mbit/s  
95th percentile per-packet one-way delay: 53.533 ms  
Loss rate: 0.47%  
-- Flow 2:  
Average throughput: 1.33 Mbit/s  
95th percentile per-packet one-way delay: 53.502 ms  
Loss rate: 0.66%  
-- Flow 3:  
Average throughput: 0.55 Mbit/s  
95th percentile per-packet one-way delay: 53.467 ms  
Loss rate: 2.00%



Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-12 20:33:55  
End at: 2018-07-12 20:34:25  
Local clock offset: -0.022 ms  
Remote clock offset: -0.419 ms

# Below is generated by plot.py at 2018-07-13 00:00:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.94 Mbit/s  
95th percentile per-packet one-way delay: 54.010 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 2.05 Mbit/s  
95th percentile per-packet one-way delay: 54.032 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 1.35 Mbit/s  
95th percentile per-packet one-way delay: 50.892 ms  
Loss rate: 0.67%  
-- Flow 3:  
Average throughput: 0.55 Mbit/s  
95th percentile per-packet one-way delay: 50.936 ms  
Loss rate: 1.58%

Run 10: Report of WebRTC media — Data Link

