

## Pantheon Report

Generated at 2018-09-25 12:14:38 (UTC).

Data path: AWS Brazil 2 on **ens5** (*local*) → Colombia on **p4p1** (*remote*).

Repeated the test of 19 congestion control schemes 5 times.

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

NTP offsets were measured against **gps.ntp.br** and have been applied to correct the timestamps in logs.

### System info:

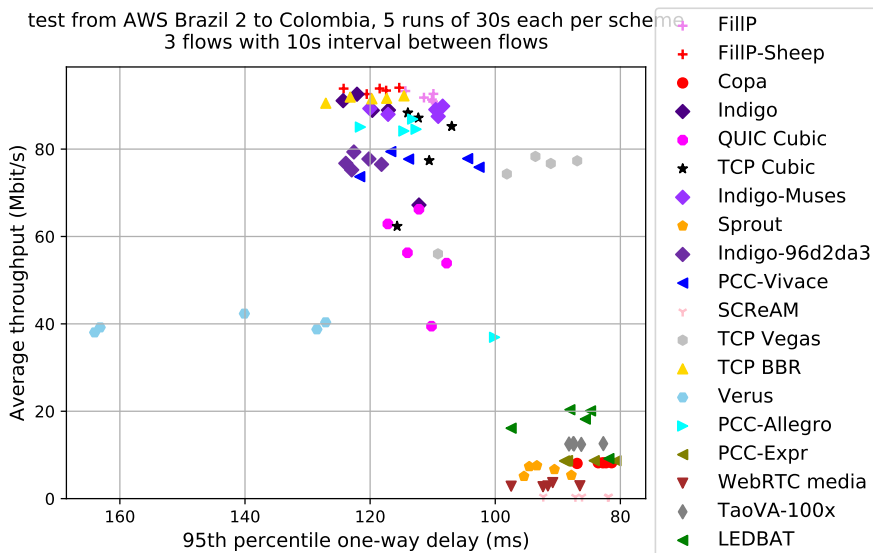
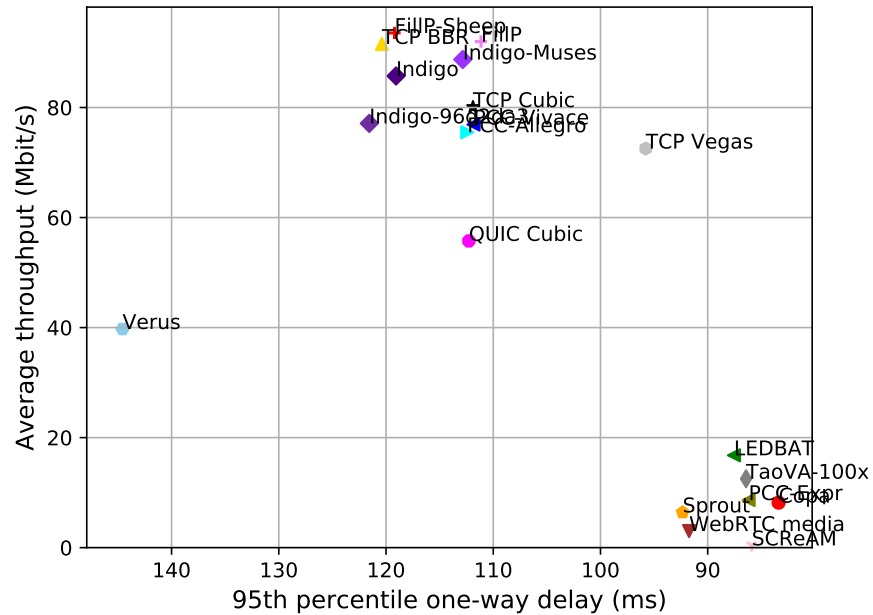
```
Linux 4.15.0-1021-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
net.ipv4.tcp_mem = 184101 245469 368202
```

### Git summary:

```
branch: muses @ 90192f6b64ce1a1191dcca0e9ff9ee24950674d7
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf5e58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-96d2da3 @ 8413272d46f8aa0bcb967ed7048b6a8f994abb95
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 65ac1b19bbefed0c6349ae986009b4fa8643c40a
third_party/pantheon-tunnel @ cbfce6db5ff5740dafe1771f813cd646339e1952
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
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
```

```
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from AWS Brazil 2 to Colombia, 5 runs of 30s each per scheme  
3 flows with 10s interval between flows (mean of all runs by scheme)



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	5	54.94	40.17	29.90	118.76	118.08	117.05	12.91	19.98	28.05
Copa	5	0.00	9.98	4.63	82.86	83.44	83.11	98.44	74.75	82.52
TCP Cubic	5	60.03	18.22	23.79	111.35	113.67	106.38	1.28	1.60	1.42
FillP	5	60.35	36.71	21.76	110.58	110.98	111.64	16.77	19.80	17.85
FillP-Sheep	5	55.40	40.96	33.02	117.28	116.95	114.89	16.31	28.39	27.74
Indigo	5	52.27	39.09	23.45	114.73	118.87	118.49	6.62	11.40	27.51
Indigo-96d2da3	5	47.27	34.37	22.35	118.91	123.42	119.56	55.71	60.07	61.13
LEDBAT	5	10.83	7.11	3.74	85.45	88.49	86.31	0.10	0.23	0.16
Indigo-Muses	5	69.13	20.73	17.91	112.56	110.42	116.42	3.34	0.96	2.51
PCC-Allegro	5	65.94	6.06	16.79	110.74	108.40	116.32	2.19	3.05	5.44
PCC-Expr	5	0.01	9.53	7.01	87.08	86.18	86.20	85.71	50.10	44.74
QUIC Cubic	5	35.47	22.07	17.19	109.38	107.87	115.74	1.72	1.08	2.88
SCReAM	5	0.19	0.22	0.22	82.65	83.23	85.67	0.36	0.09	0.25
Sprout	5	3.16	3.55	2.71	92.00	92.26	92.06	0.04	0.00	0.00
TaoVA-100x	5	6.72	5.39	6.78	93.08	85.04	82.51	51.26	68.01	84.78
TCP Vegas	5	39.86	31.58	35.00	94.79	99.06	92.72	0.94	0.76	0.97
Verus	5	20.01	21.39	17.36	148.12	135.81	115.17	50.33	46.49	23.94
PCC-Vivace	5	64.13	14.43	9.61	111.87	111.61	110.65	0.28	0.66	0.89
WebRTC media	5	1.74	1.12	0.17	86.22	89.60	88.62	0.39	0.21	0.05



Run 1: Statistics of TCP BBR

Start at: 2018-09-25 08:52:24

End at: 2018-09-25 08:52:54

Local clock offset: -6.885 ms

Remote clock offset: 1.421 ms

# Below is generated by plot.py at 2018-09-25 12:06:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.91 Mbit/s

95th percentile per-packet one-way delay: 123.177 ms

Loss rate: 16.78%

-- Flow 1:

Average throughput: 54.92 Mbit/s

95th percentile per-packet one-way delay: 115.963 ms

Loss rate: 12.36%

-- Flow 2:

Average throughput: 39.23 Mbit/s

95th percentile per-packet one-way delay: 123.281 ms

Loss rate: 18.52%

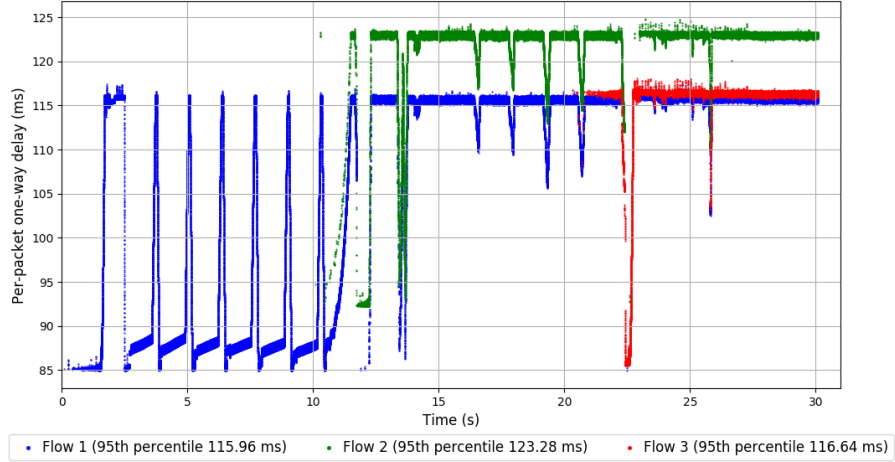
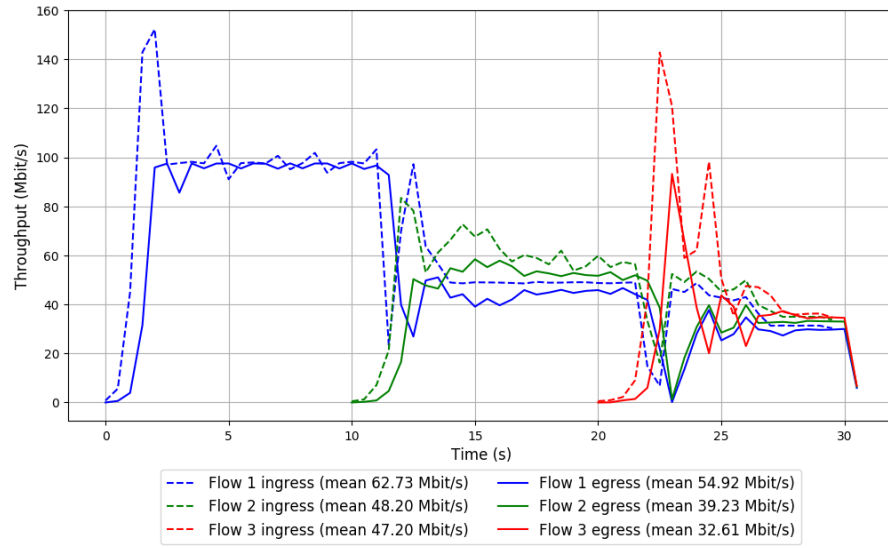
-- Flow 3:

Average throughput: 32.61 Mbit/s

95th percentile per-packet one-way delay: 116.644 ms

Loss rate: 30.91%

# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-09-25 09:39:28

End at: 2018-09-25 09:39:58

Local clock offset: -3.638 ms

Remote clock offset: 1.839 ms

# Below is generated by plot.py at 2018-09-25 12:06:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.64 Mbit/s

95th percentile per-packet one-way delay: 117.357 ms

Loss rate: 14.44%

-- Flow 1:

Average throughput: 55.97 Mbit/s

95th percentile per-packet one-way delay: 117.026 ms

Loss rate: 11.12%

-- Flow 2:

Average throughput: 38.34 Mbit/s

95th percentile per-packet one-way delay: 116.358 ms

Loss rate: 17.85%

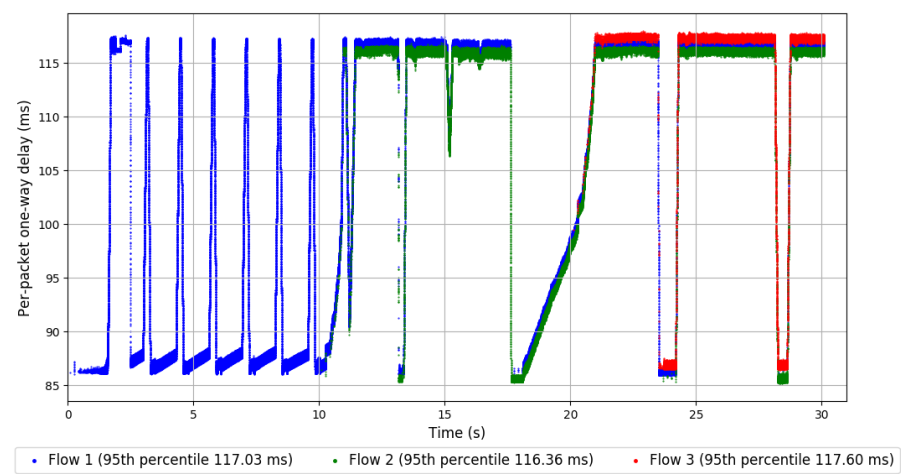
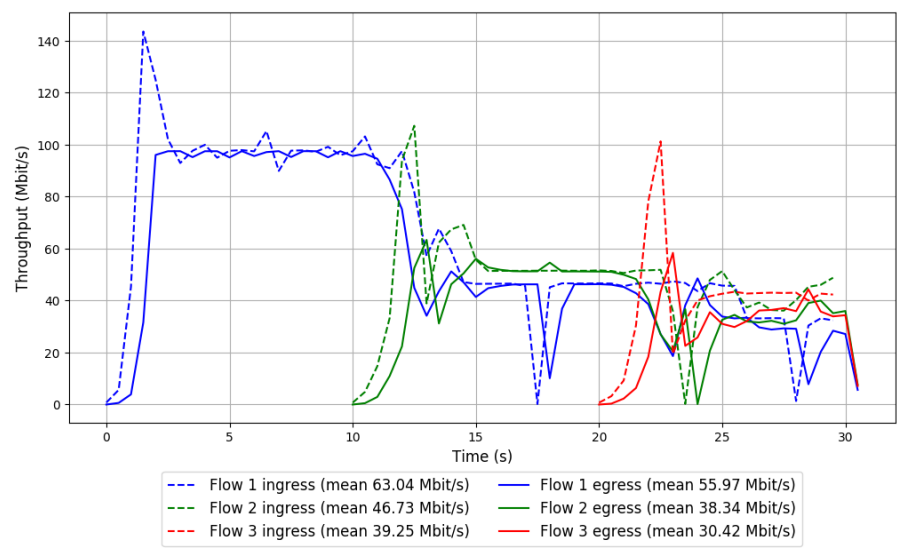
-- Flow 3:

Average throughput: 30.42 Mbit/s

95th percentile per-packet one-way delay: 117.597 ms

Loss rate: 22.38%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-09-25 10:25:23

End at: 2018-09-25 10:25:53

Local clock offset: -7.078 ms

Remote clock offset: 1.749 ms

# Below is generated by plot.py at 2018-09-25 12:06:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.51 Mbit/s

95th percentile per-packet one-way delay: 127.085 ms

Loss rate: 18.94%

-- Flow 1:

Average throughput: 54.66 Mbit/s

95th percentile per-packet one-way delay: 127.139 ms

Loss rate: 15.06%

-- Flow 2:

Average throughput: 39.75 Mbit/s

95th percentile per-packet one-way delay: 117.323 ms

Loss rate: 22.38%

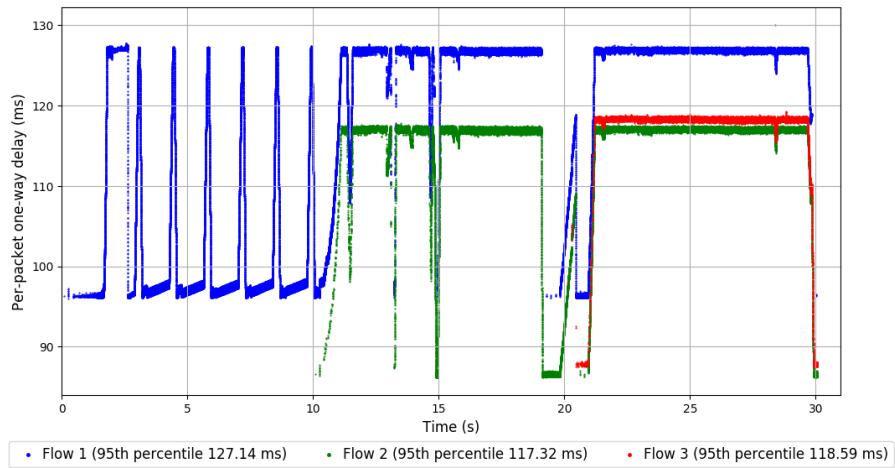
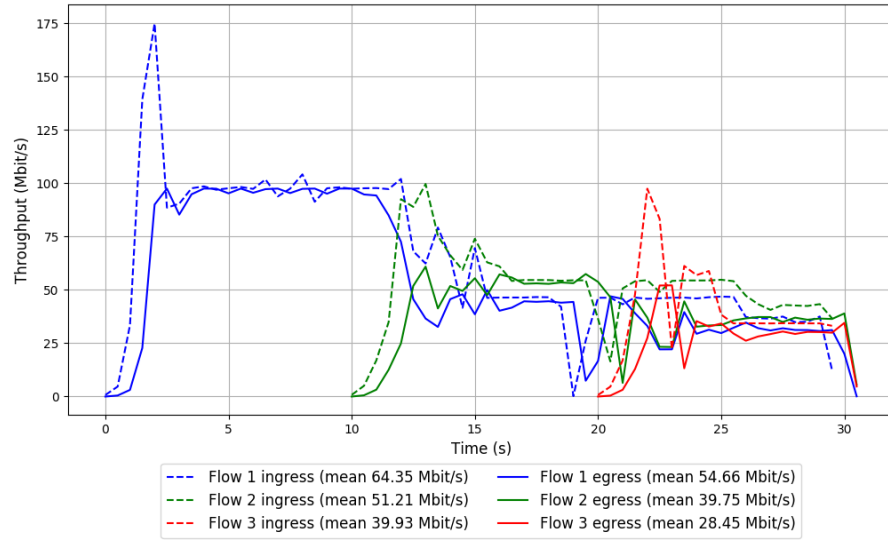
-- Flow 3:

Average throughput: 28.45 Mbit/s

95th percentile per-packet one-way delay: 118.586 ms

Loss rate: 28.86%

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

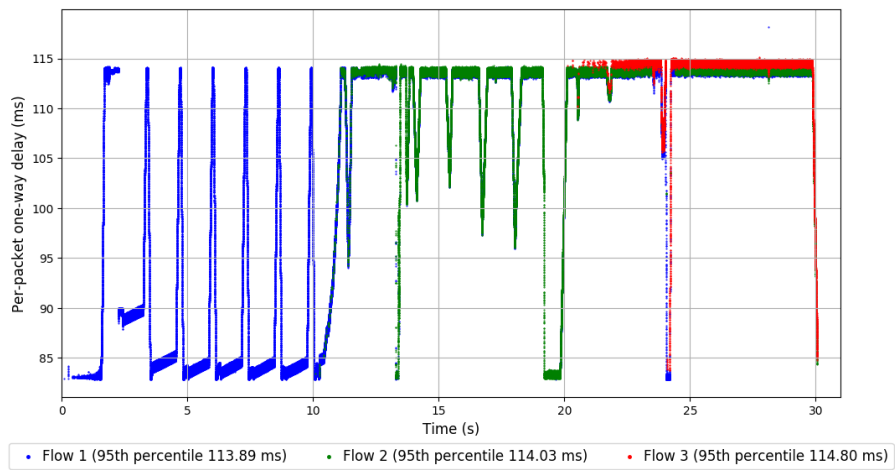
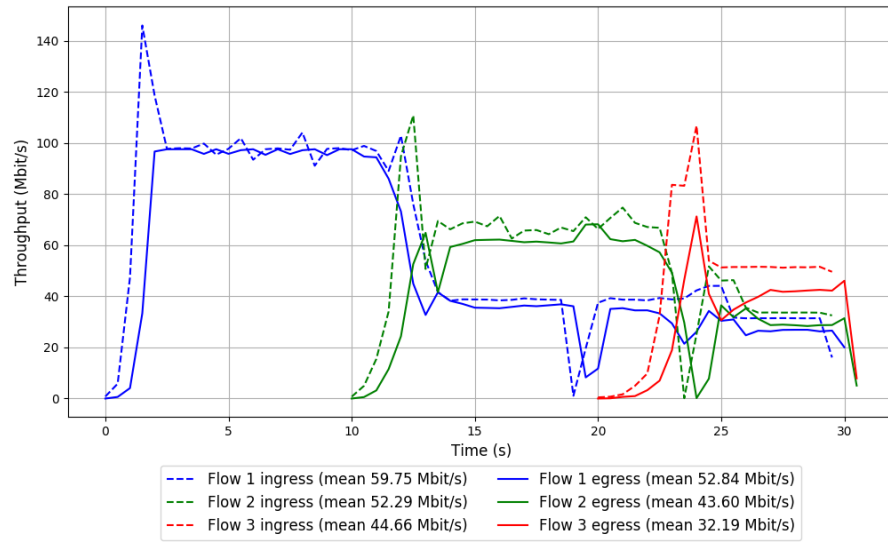


Run 4: Statistics of TCP BBR

Start at: 2018-09-25 11:10:37  
End at: 2018-09-25 11:11:07  
Local clock offset: -3.01 ms  
Remote clock offset: -3.227 ms

# Below is generated by plot.py at 2018-09-25 12:06:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.19 Mbit/s  
95th percentile per-packet one-way delay: 114.588 ms  
Loss rate: 15.38%  
-- Flow 1:  
Average throughput: 52.84 Mbit/s  
95th percentile per-packet one-way delay: 113.895 ms  
Loss rate: 11.47%  
-- Flow 2:  
Average throughput: 43.60 Mbit/s  
95th percentile per-packet one-way delay: 114.035 ms  
Loss rate: 16.62%  
-- Flow 3:  
Average throughput: 32.19 Mbit/s  
95th percentile per-packet one-way delay: 114.796 ms  
Loss rate: 28.14%

# Run 4: Report of TCP BBR — Data Link





Run 5: Statistics of TCP BBR

Start at: 2018-09-25 11:58:24

End at: 2018-09-25 11:58:54

Local clock offset: -3.966 ms

Remote clock offset: 1.955 ms

# Below is generated by plot.py at 2018-09-25 12:06:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.52 Mbit/s

95th percentile per-packet one-way delay: 119.714 ms

Loss rate: 19.30%

-- Flow 1:

Average throughput: 56.32 Mbit/s

95th percentile per-packet one-way delay: 119.767 ms

Loss rate: 14.52%

-- Flow 2:

Average throughput: 39.94 Mbit/s

95th percentile per-packet one-way delay: 119.398 ms

Loss rate: 24.53%

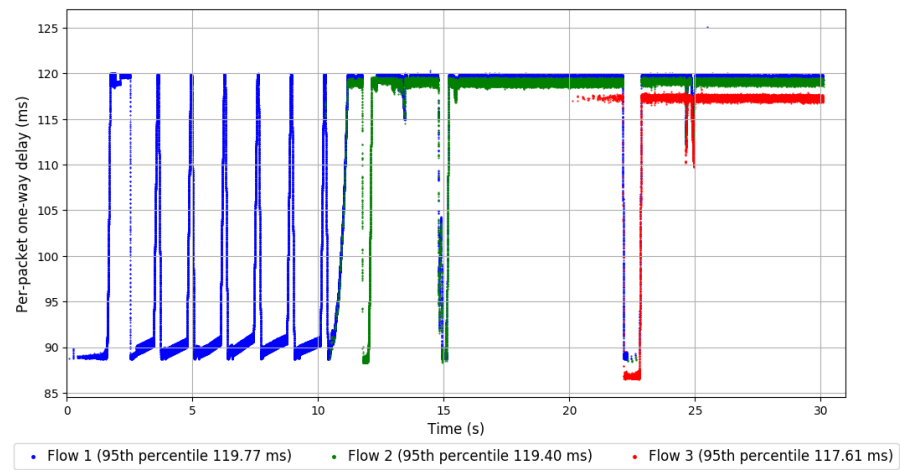
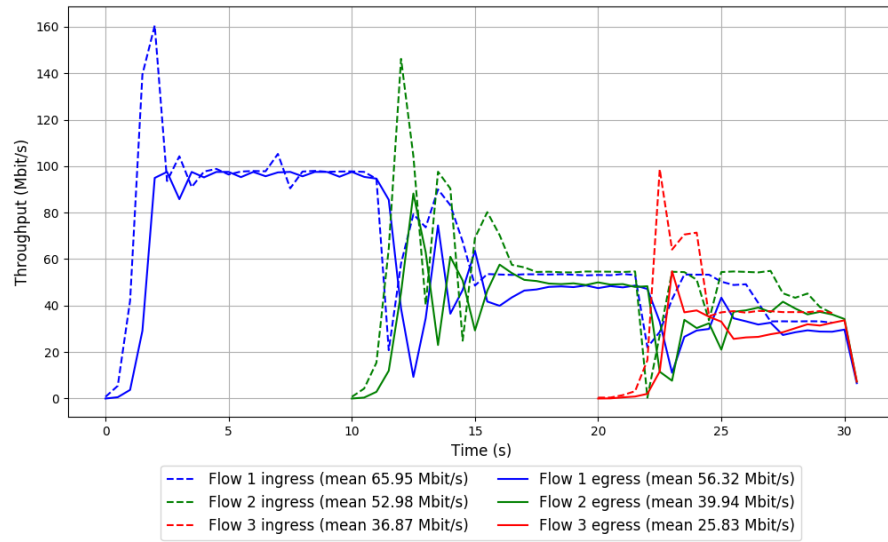
-- Flow 3:

Average throughput: 25.83 Mbit/s

95th percentile per-packet one-way delay: 117.613 ms

Loss rate: 29.95%

# Run 5: Report of TCP BBR — Data Link

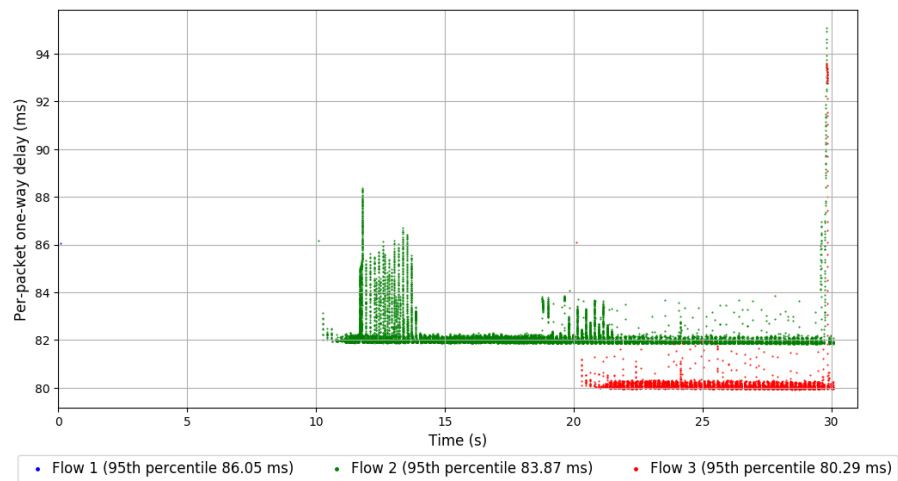
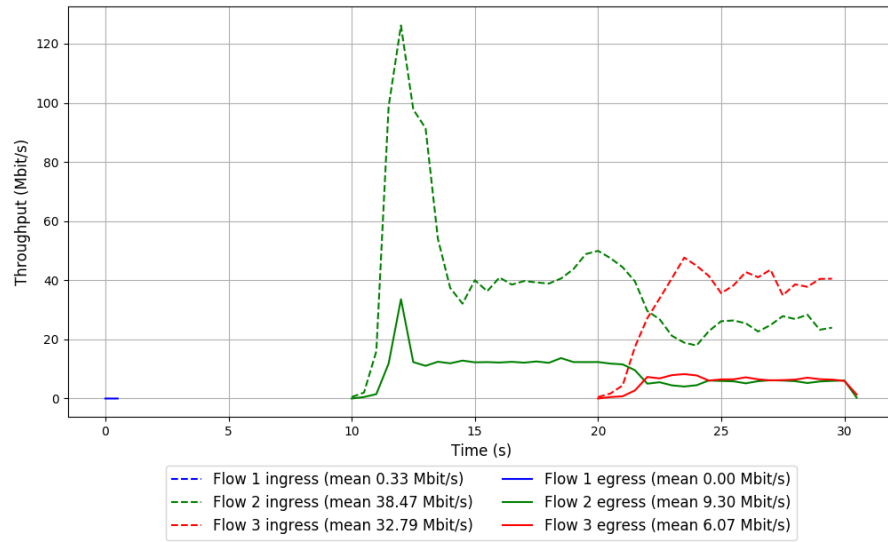


Run 1: Statistics of Copa

Start at: 2018-09-25 08:46:37  
End at: 2018-09-25 08:47:07  
Local clock offset: -6.819 ms  
Remote clock offset: -3.853 ms

# Below is generated by plot.py at 2018-09-25 12:06:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.21 Mbit/s  
95th percentile per-packet one-way delay: 83.532 ms  
Loss rate: 77.52%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 86.053 ms  
Loss rate: 98.33%  
-- Flow 2:  
Average throughput: 9.30 Mbit/s  
95th percentile per-packet one-way delay: 83.872 ms  
Loss rate: 75.83%  
-- Flow 3:  
Average throughput: 6.07 Mbit/s  
95th percentile per-packet one-way delay: 80.289 ms  
Loss rate: 81.49%

## Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-09-25 09:32:44

End at: 2018-09-25 09:33:14

Local clock offset: -3.845 ms

Remote clock offset: 0.931 ms

# Below is generated by plot.py at 2018-09-25 12:06:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.06 Mbit/s

95th percentile per-packet one-way delay: 86.922 ms

Loss rate: 72.34%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 86.479 ms

Loss rate: 98.33%

-- Flow 2:

Average throughput: 9.10 Mbit/s

95th percentile per-packet one-way delay: 86.822 ms

Loss rate: 72.96%

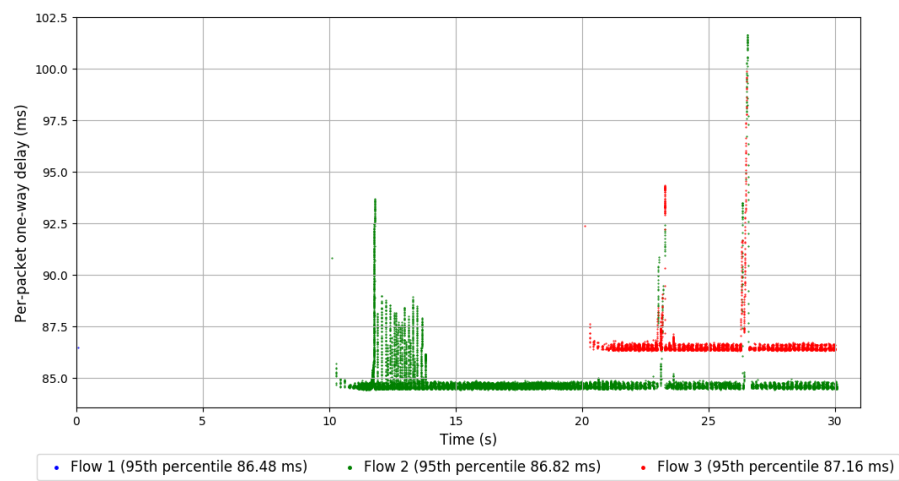
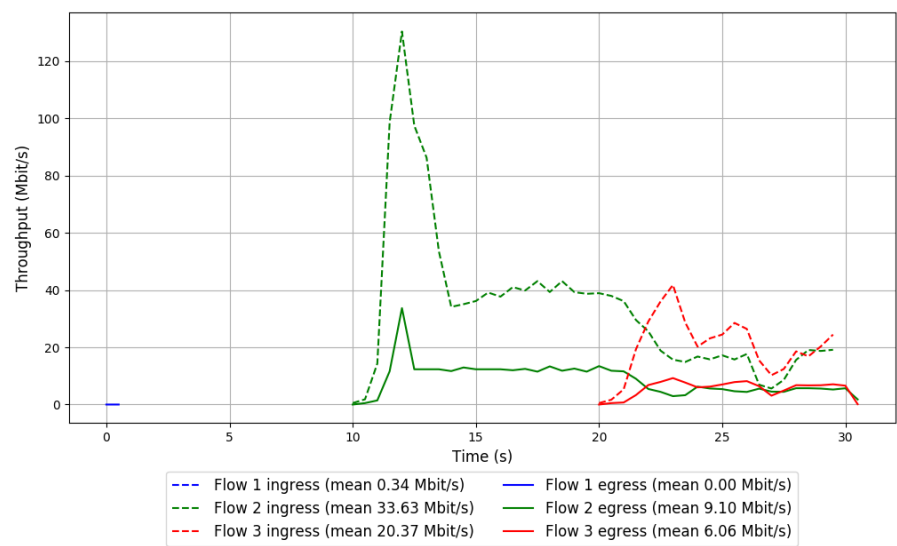
-- Flow 3:

Average throughput: 6.06 Mbit/s

95th percentile per-packet one-way delay: 87.156 ms

Loss rate: 70.28%

Run 2: Report of Copa — Data Link

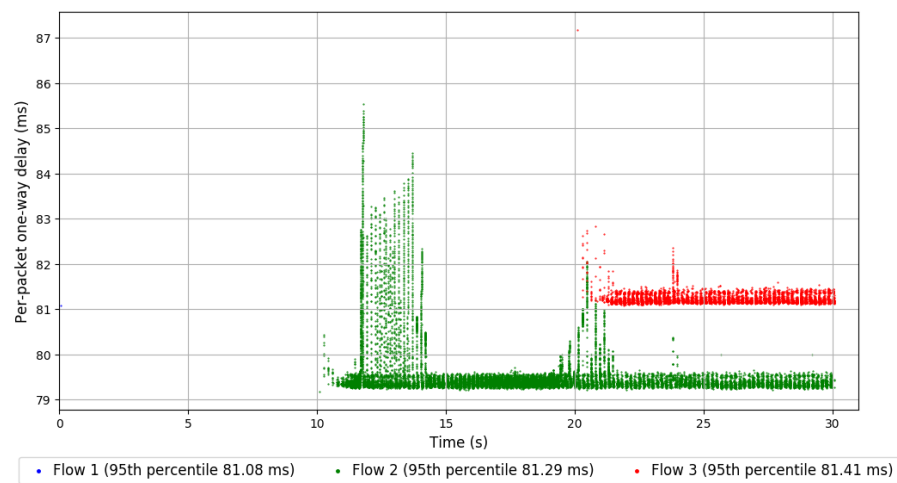
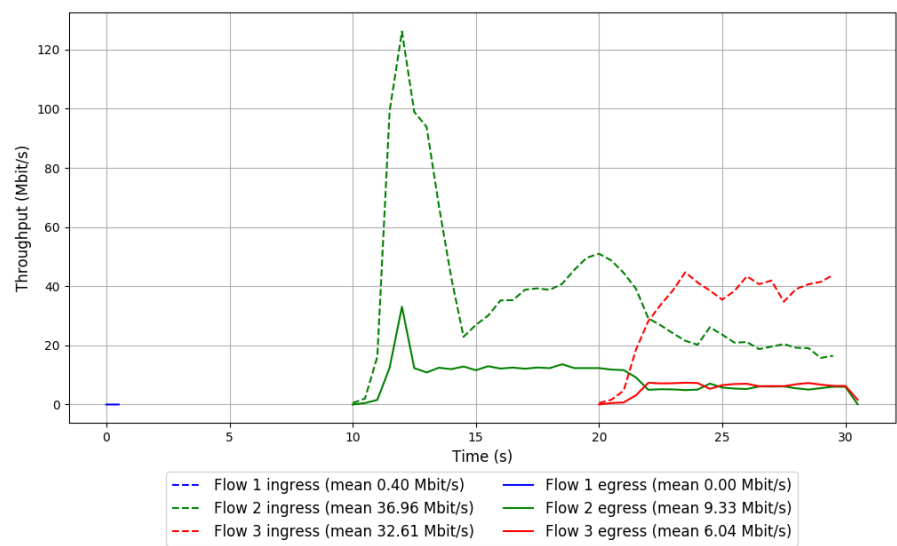


Run 3: Statistics of Copa

Start at: 2018-09-25 10:19:28  
End at: 2018-09-25 10:19:58  
Local clock offset: -7.106 ms  
Remote clock offset: -4.477 ms

# Below is generated by plot.py at 2018-09-25 12:06:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.22 Mbit/s  
95th percentile per-packet one-way delay: 81.397 ms  
Loss rate: 76.83%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 81.085 ms  
Loss rate: 98.60%  
-- Flow 2:  
Average throughput: 9.33 Mbit/s  
95th percentile per-packet one-way delay: 81.291 ms  
Loss rate: 74.77%  
-- Flow 3:  
Average throughput: 6.04 Mbit/s  
95th percentile per-packet one-way delay: 81.406 ms  
Loss rate: 81.50%

Run 3: Report of Copa — Data Link



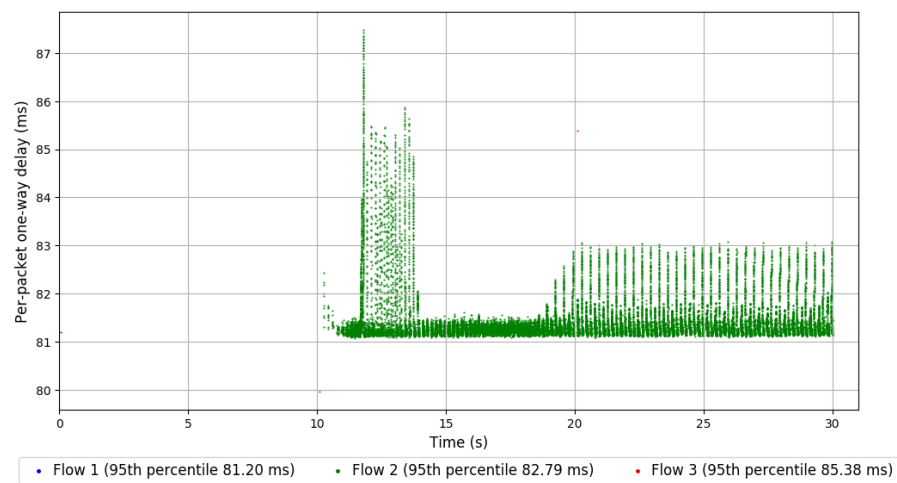
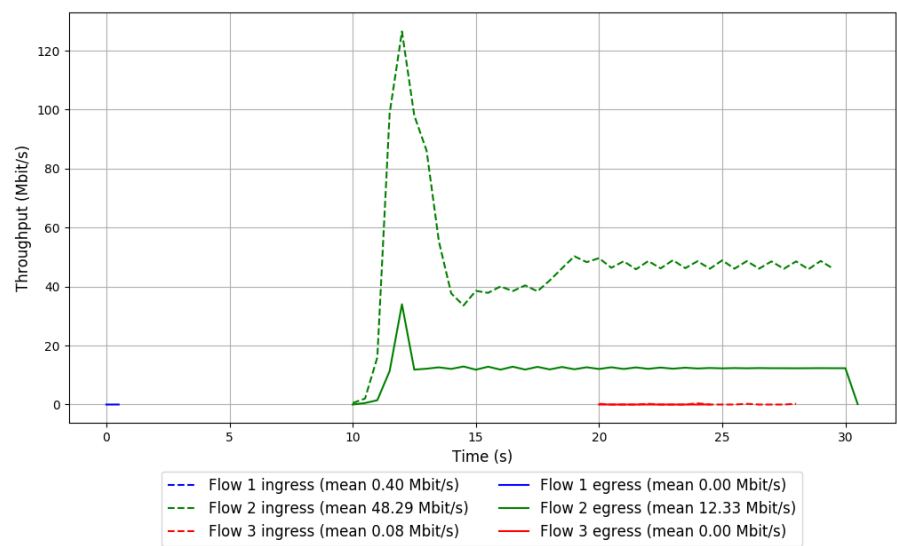


Run 4: Statistics of Copa

Start at: 2018-09-25 11:04:37  
End at: 2018-09-25 11:05:07  
Local clock offset: -2.504 ms  
Remote clock offset: -4.479 ms

# Below is generated by plot.py at 2018-09-25 12:06:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.20 Mbit/s  
95th percentile per-packet one-way delay: 82.795 ms  
Loss rate: 74.49%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 81.205 ms  
Loss rate: 98.60%  
-- Flow 2:  
Average throughput: 12.33 Mbit/s  
95th percentile per-packet one-way delay: 82.794 ms  
Loss rate: 74.48%  
-- Flow 3:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 85.383 ms  
Loss rate: 98.10%

Run 4: Report of Copa — Data Link

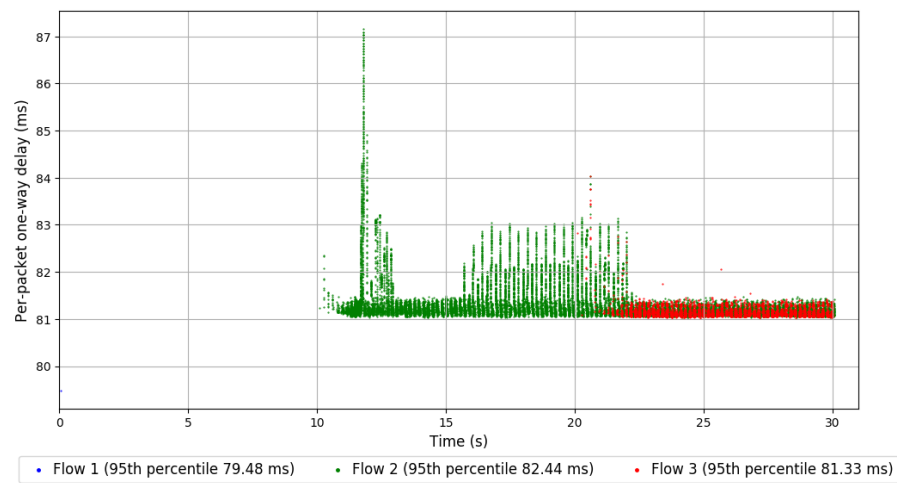
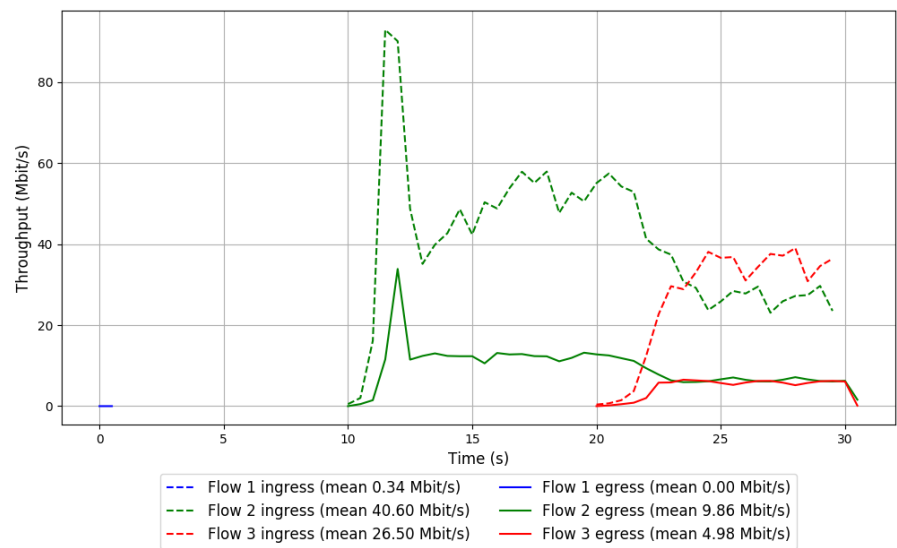


Run 5: Statistics of Copa

Start at: 2018-09-25 11:52:27  
End at: 2018-09-25 11:52:57  
Local clock offset: -3.037 ms  
Remote clock offset: -4.408 ms

# Below is generated by plot.py at 2018-09-25 12:06:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.21 Mbit/s  
95th percentile per-packet one-way delay: 82.289 ms  
Loss rate: 77.06%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 79.478 ms  
Loss rate: 98.33%  
-- Flow 2:  
Average throughput: 9.86 Mbit/s  
95th percentile per-packet one-way delay: 82.439 ms  
Loss rate: 75.72%  
-- Flow 3:  
Average throughput: 4.98 Mbit/s  
95th percentile per-packet one-way delay: 81.334 ms  
Loss rate: 81.21%

Run 5: Report of Copa — Data Link

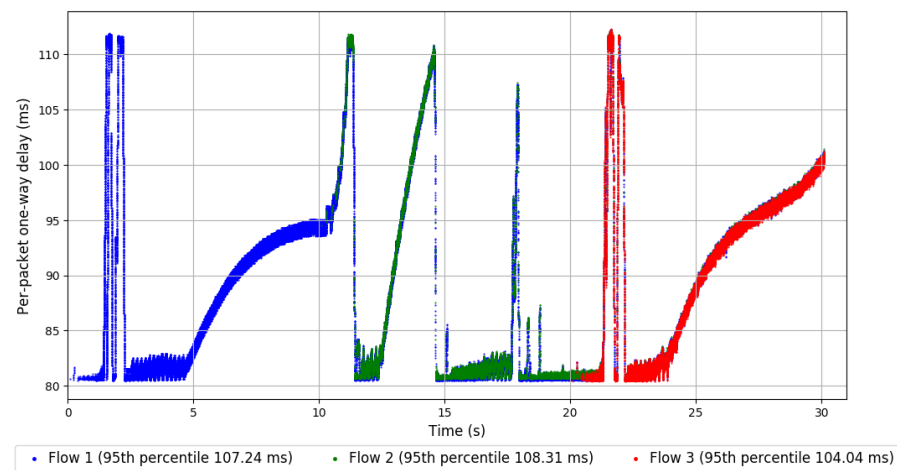
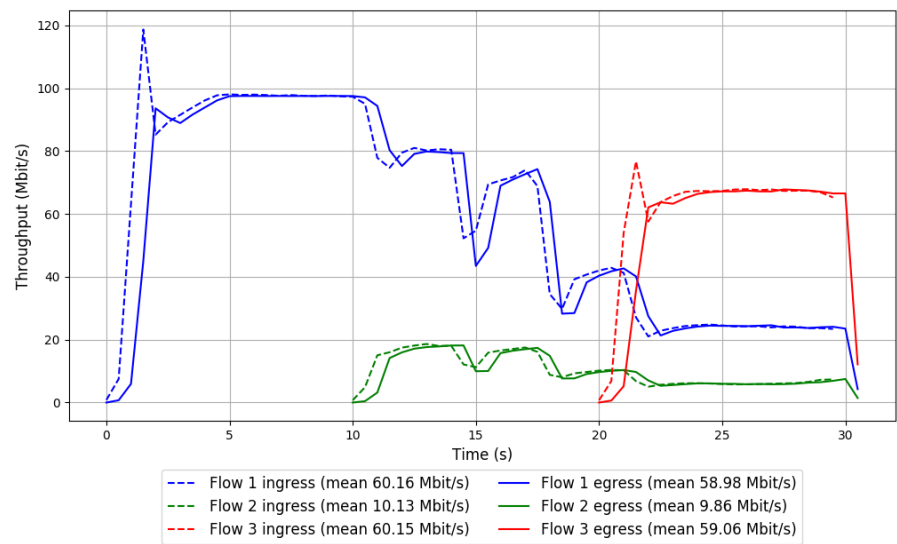


Run 1: Statistics of TCP Cubic

Start at: 2018-09-25 08:26:53  
End at: 2018-09-25 08:27:23  
Local clock offset: -4.39 ms  
Remote clock offset: -3.412 ms

# Below is generated by plot.py at 2018-09-25 12:06:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.21 Mbit/s  
95th percentile per-packet one-way delay: 106.956 ms  
Loss rate: 1.88%  
-- Flow 1:  
Average throughput: 58.98 Mbit/s  
95th percentile per-packet one-way delay: 107.240 ms  
Loss rate: 1.89%  
-- Flow 2:  
Average throughput: 9.86 Mbit/s  
95th percentile per-packet one-way delay: 108.314 ms  
Loss rate: 2.56%  
-- Flow 3:  
Average throughput: 59.06 Mbit/s  
95th percentile per-packet one-way delay: 104.042 ms  
Loss rate: 1.61%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-09-25 09:12:49

End at: 2018-09-25 09:13:19

Local clock offset: -6.789 ms

Remote clock offset: 2.139 ms

# Below is generated by plot.py at 2018-09-25 12:06:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 62.35 Mbit/s

95th percentile per-packet one-way delay: 115.684 ms

Loss rate: 2.14%

-- Flow 1:

Average throughput: 45.51 Mbit/s

95th percentile per-packet one-way delay: 115.782 ms

Loss rate: 1.85%

-- Flow 2:

Average throughput: 19.05 Mbit/s

95th percentile per-packet one-way delay: 116.118 ms

Loss rate: 3.34%

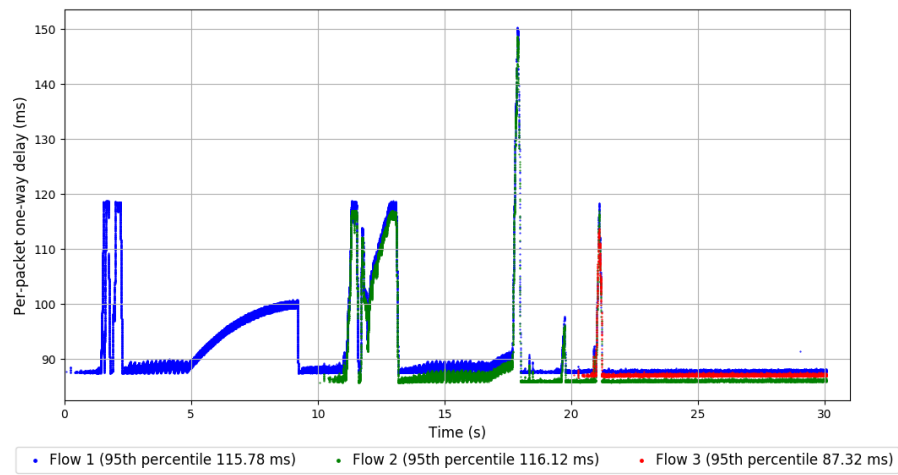
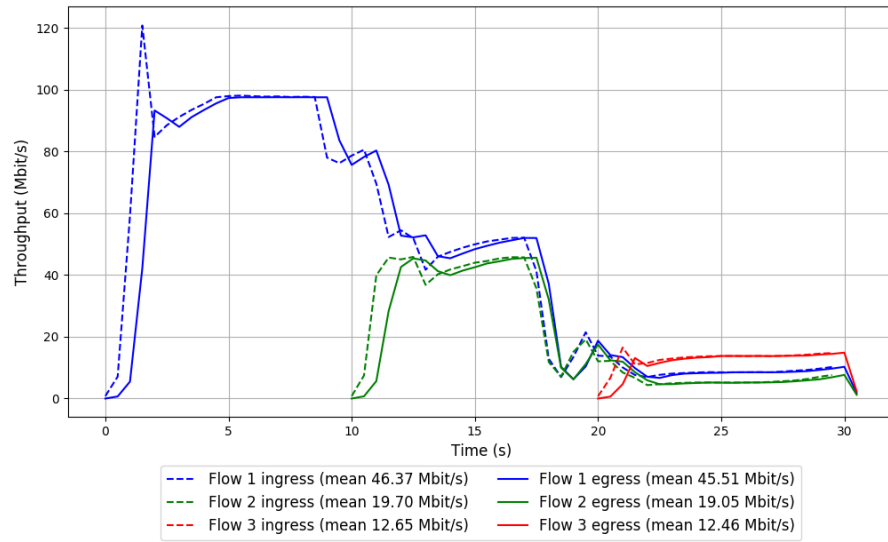
-- Flow 3:

Average throughput: 12.46 Mbit/s

95th percentile per-packet one-way delay: 87.322 ms

Loss rate: 1.53%

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



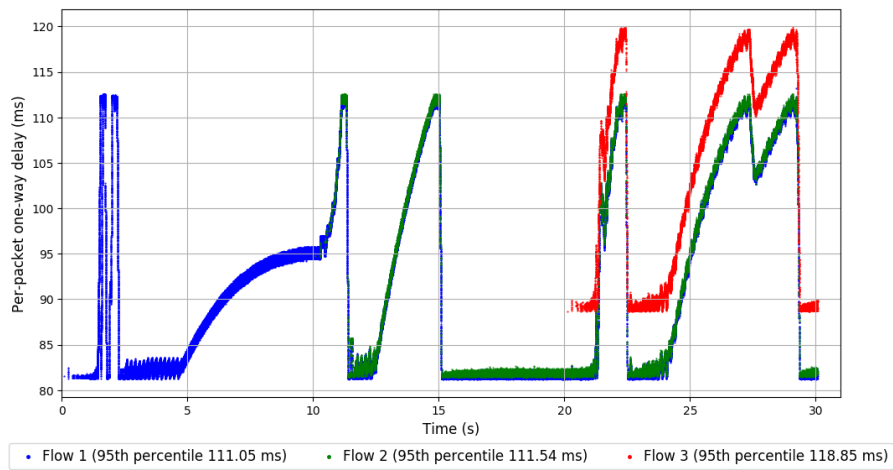
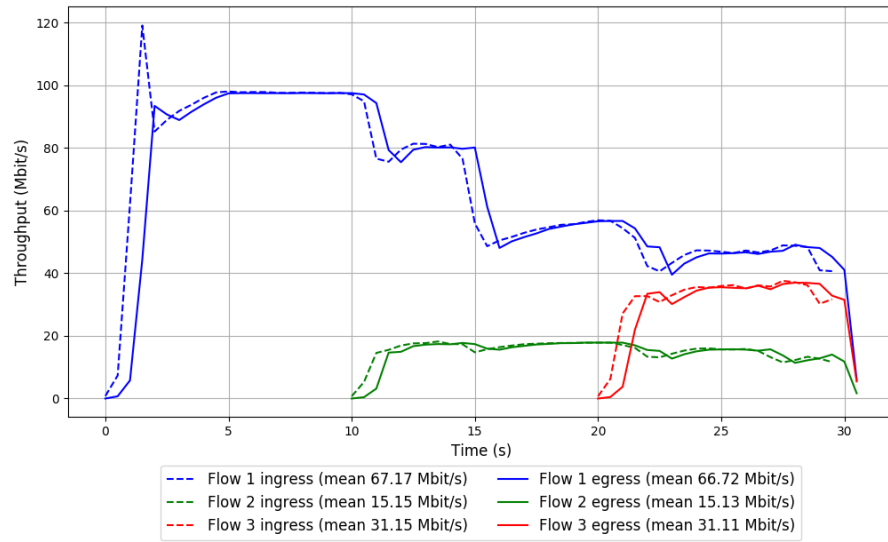


Run 3: Statistics of TCP Cubic

Start at: 2018-09-25 09:59:29  
End at: 2018-09-25 09:59:59  
Local clock offset: -7.751 ms  
Remote clock offset: -3.393 ms

# Below is generated by plot.py at 2018-09-25 12:07:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.13 Mbit/s  
95th percentile per-packet one-way delay: 112.294 ms  
Loss rate: 0.55%  
-- Flow 1:  
Average throughput: 66.72 Mbit/s  
95th percentile per-packet one-way delay: 111.045 ms  
Loss rate: 0.67%  
-- Flow 2:  
Average throughput: 15.13 Mbit/s  
95th percentile per-packet one-way delay: 111.539 ms  
Loss rate: 0.16%  
-- Flow 3:  
Average throughput: 31.11 Mbit/s  
95th percentile per-packet one-way delay: 118.852 ms  
Loss rate: 0.17%

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

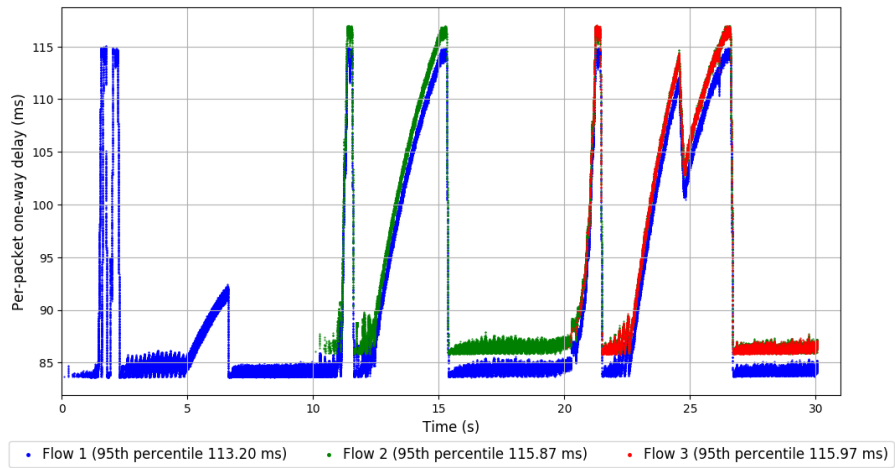
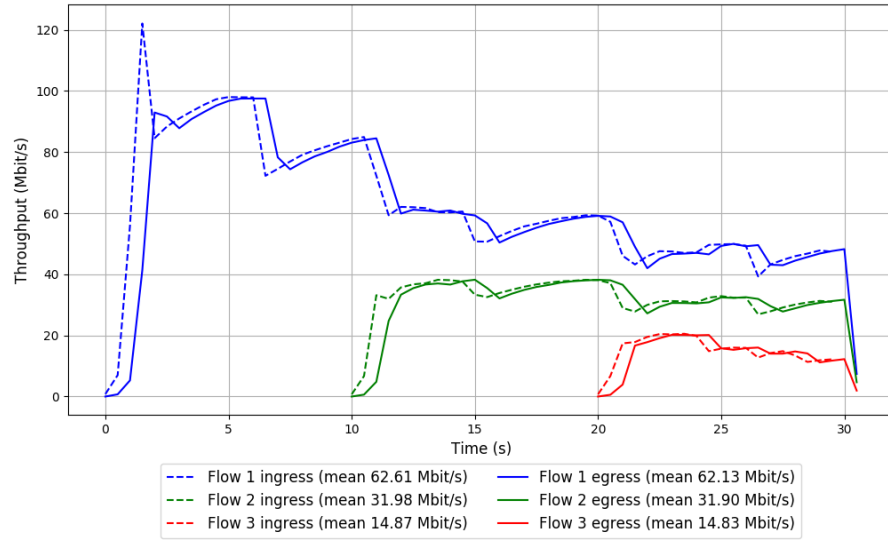


Run 4: Statistics of TCP Cubic

Start at: 2018-09-25 10:44:27  
End at: 2018-09-25 10:44:57  
Local clock offset: -5.325 ms  
Remote clock offset: -0.544 ms

# Below is generated by plot.py at 2018-09-25 12:07:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.30 Mbit/s  
95th percentile per-packet one-way delay: 113.970 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 62.13 Mbit/s  
95th percentile per-packet one-way delay: 113.197 ms  
Loss rate: 0.76%  
-- Flow 2:  
Average throughput: 31.90 Mbit/s  
95th percentile per-packet one-way delay: 115.869 ms  
Loss rate: 0.26%  
-- Flow 3:  
Average throughput: 14.83 Mbit/s  
95th percentile per-packet one-way delay: 115.971 ms  
Loss rate: 0.29%

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

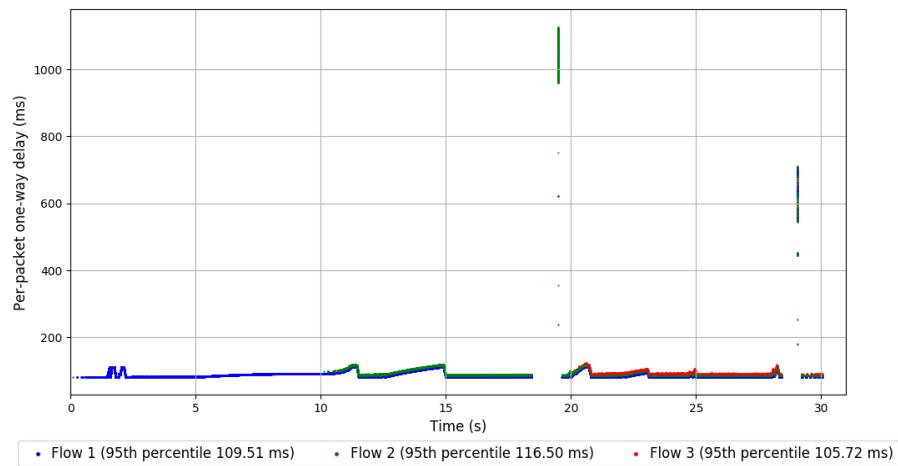
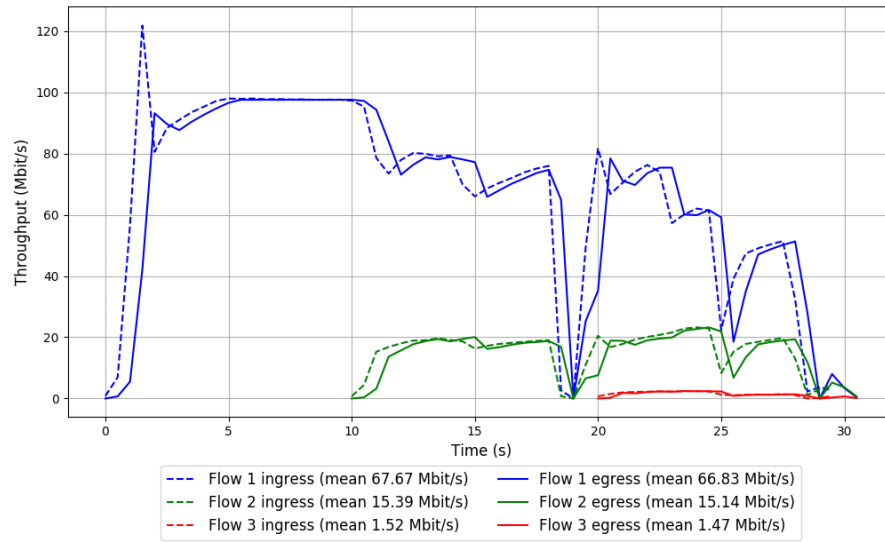


Run 5: Statistics of TCP Cubic

Start at: 2018-09-25 11:30:42  
End at: 2018-09-25 11:31:12  
Local clock offset: -1.995 ms  
Remote clock offset: -3.179 ms

# Below is generated by plot.py at 2018-09-25 12:07:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.38 Mbit/s  
95th percentile per-packet one-way delay: 110.556 ms  
Loss rate: 1.32%  
-- Flow 1:  
Average throughput: 66.83 Mbit/s  
95th percentile per-packet one-way delay: 109.506 ms  
Loss rate: 1.24%  
-- Flow 2:  
Average throughput: 15.14 Mbit/s  
95th percentile per-packet one-way delay: 116.500 ms  
Loss rate: 1.70%  
-- Flow 3:  
Average throughput: 1.47 Mbit/s  
95th percentile per-packet one-way delay: 105.718 ms  
Loss rate: 3.49%

# Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-09-25 08:21:56

End at: 2018-09-25 08:22:26

Local clock offset: -4.133 ms

Remote clock offset: -3.36 ms

# Below is generated by plot.py at 2018-09-25 12:08:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.64 Mbit/s

95th percentile per-packet one-way delay: 109.885 ms

Loss rate: 16.19%

-- Flow 1:

Average throughput: 64.37 Mbit/s

95th percentile per-packet one-way delay: 109.835 ms

Loss rate: 15.68%

-- Flow 2:

Average throughput: 29.71 Mbit/s

95th percentile per-packet one-way delay: 110.012 ms

Loss rate: 17.42%

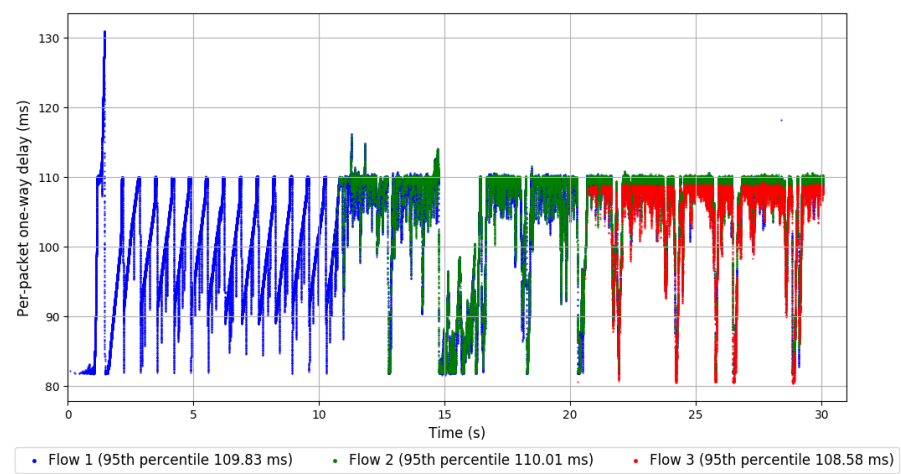
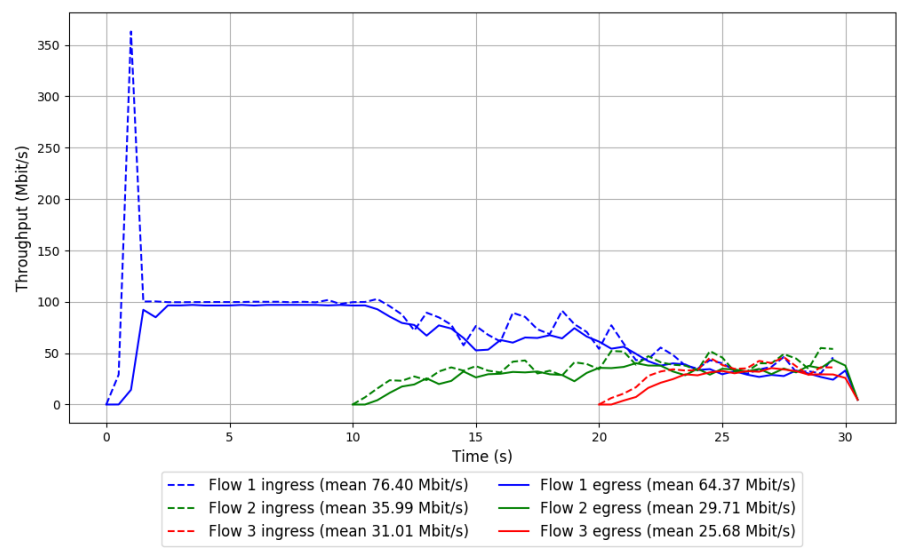
-- Flow 3:

Average throughput: 25.68 Mbit/s

95th percentile per-packet one-way delay: 108.585 ms

Loss rate: 17.16%

Run 1: Report of FillP — Data Link



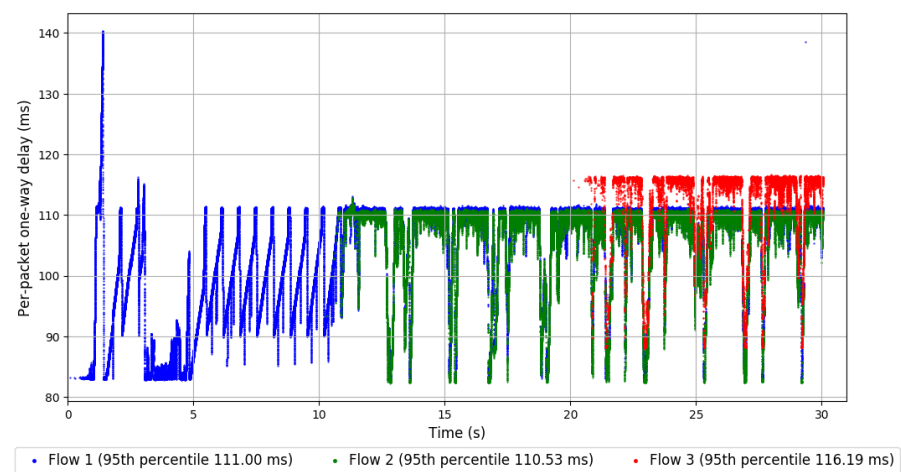
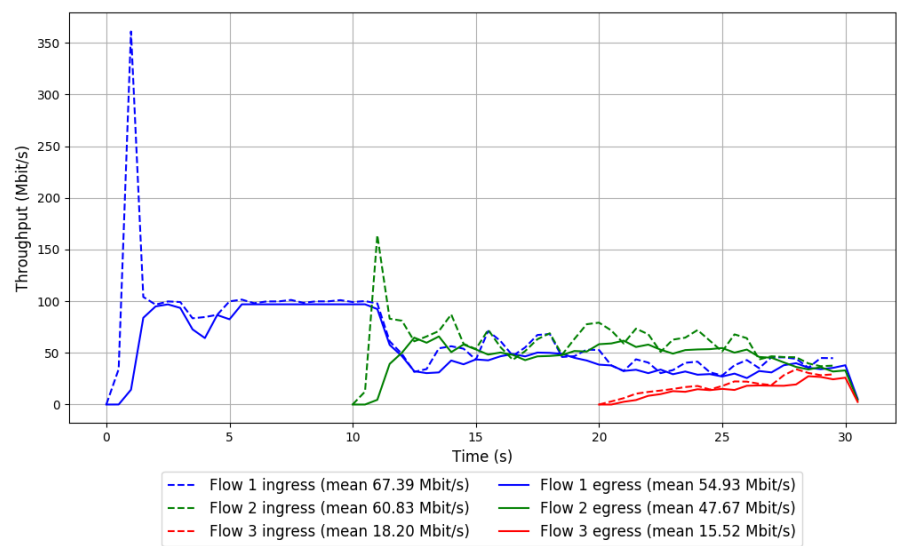


Run 2: Statistics of FillP

Start at: 2018-09-25 09:08:08  
End at: 2018-09-25 09:08:38  
Local clock offset: -8.276 ms  
Remote clock offset: -2.755 ms

# Below is generated by plot.py at 2018-09-25 12:08:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.79 Mbit/s  
95th percentile per-packet one-way delay: 111.396 ms  
Loss rate: 19.36%  
-- Flow 1:  
Average throughput: 54.93 Mbit/s  
95th percentile per-packet one-way delay: 111.001 ms  
Loss rate: 18.41%  
-- Flow 2:  
Average throughput: 47.67 Mbit/s  
95th percentile per-packet one-way delay: 110.527 ms  
Loss rate: 21.64%  
-- Flow 3:  
Average throughput: 15.52 Mbit/s  
95th percentile per-packet one-way delay: 116.195 ms  
Loss rate: 14.81%

Run 2: Report of FillP — Data Link

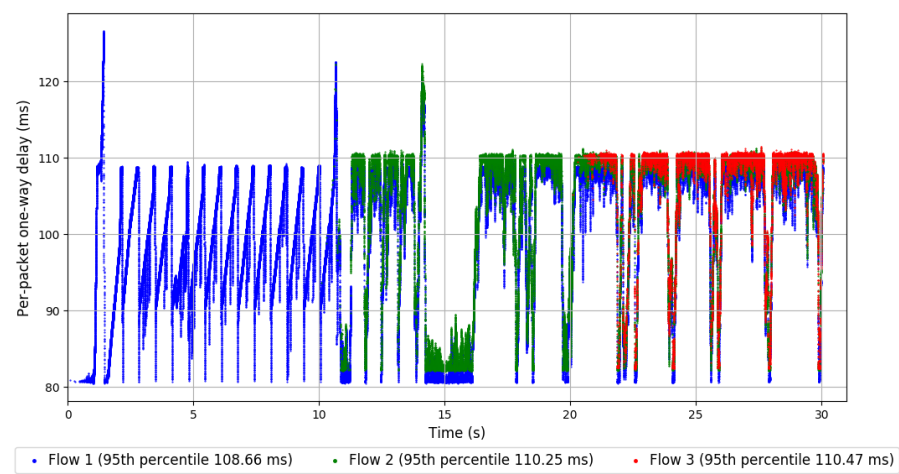
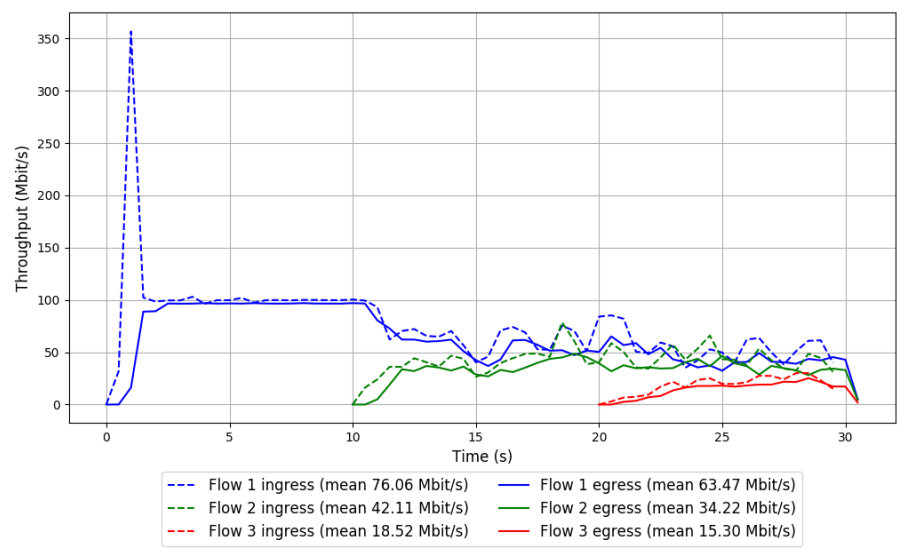


Run 3: Statistics of FillP

Start at: 2018-09-25 09:54:56  
End at: 2018-09-25 09:55:26  
Local clock offset: -7.484 ms  
Remote clock offset: -4.393 ms

# Below is generated by plot.py at 2018-09-25 12:08:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.34 Mbit/s  
95th percentile per-packet one-way delay: 110.121 ms  
Loss rate: 17.09%  
-- Flow 1:  
Average throughput: 63.47 Mbit/s  
95th percentile per-packet one-way delay: 108.658 ms  
Loss rate: 16.49%  
-- Flow 2:  
Average throughput: 34.22 Mbit/s  
95th percentile per-packet one-way delay: 110.245 ms  
Loss rate: 18.67%  
-- Flow 3:  
Average throughput: 15.30 Mbit/s  
95th percentile per-packet one-way delay: 110.470 ms  
Loss rate: 17.33%

Run 3: Report of FillP — Data Link

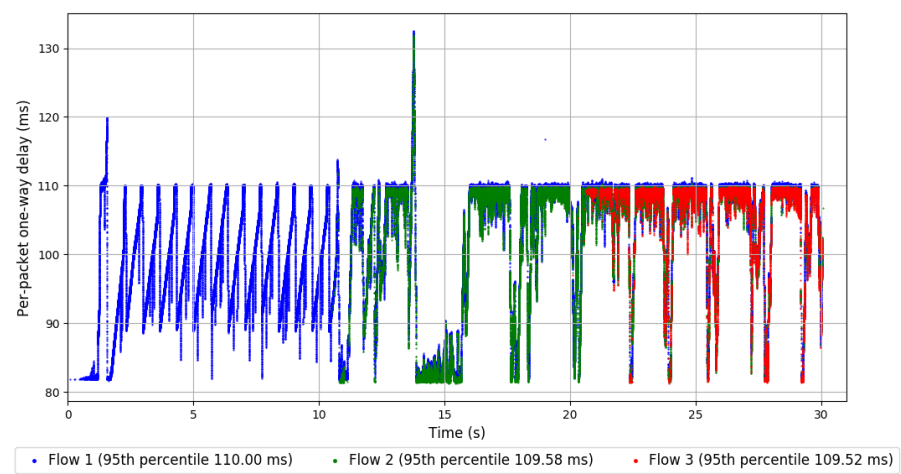
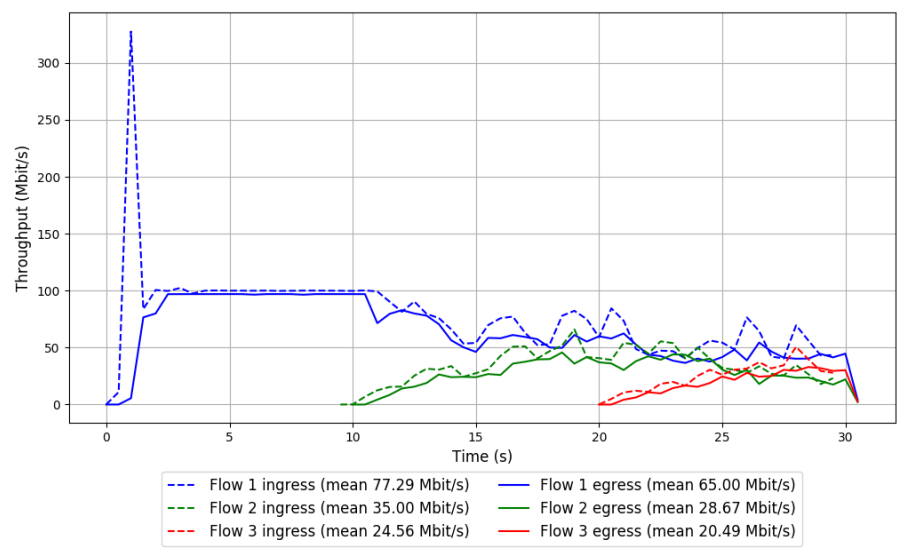


Run 4: Statistics of FillP

Start at: 2018-09-25 10:39:57  
End at: 2018-09-25 10:40:27  
Local clock offset: -6.986 ms  
Remote clock offset: -4.469 ms

# Below is generated by plot.py at 2018-09-25 12:08:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.87 Mbit/s  
95th percentile per-packet one-way delay: 109.936 ms  
Loss rate: 16.38%  
-- Flow 1:  
Average throughput: 65.00 Mbit/s  
95th percentile per-packet one-way delay: 110.003 ms  
Loss rate: 15.85%  
-- Flow 2:  
Average throughput: 28.67 Mbit/s  
95th percentile per-packet one-way delay: 109.576 ms  
Loss rate: 18.06%  
-- Flow 3:  
Average throughput: 20.49 Mbit/s  
95th percentile per-packet one-way delay: 109.517 ms  
Loss rate: 16.56%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-09-25 11:26:15

End at: 2018-09-25 11:26:46

Local clock offset: -2.189 ms

Remote clock offset: 0.721 ms

# Below is generated by plot.py at 2018-09-25 12:08:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.29 Mbit/s

95th percentile per-packet one-way delay: 114.364 ms

Loss rate: 19.97%

-- Flow 1:

Average throughput: 53.97 Mbit/s

95th percentile per-packet one-way delay: 113.421 ms

Loss rate: 17.41%

-- Flow 2:

Average throughput: 43.26 Mbit/s

95th percentile per-packet one-way delay: 114.517 ms

Loss rate: 23.19%

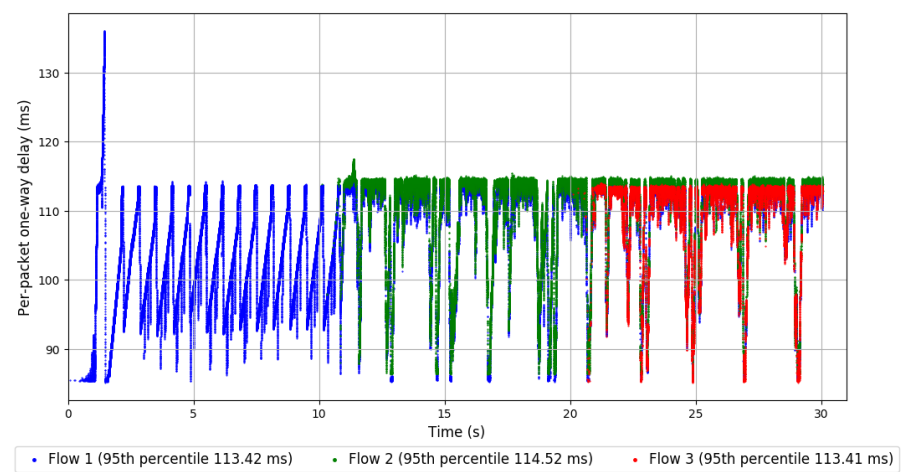
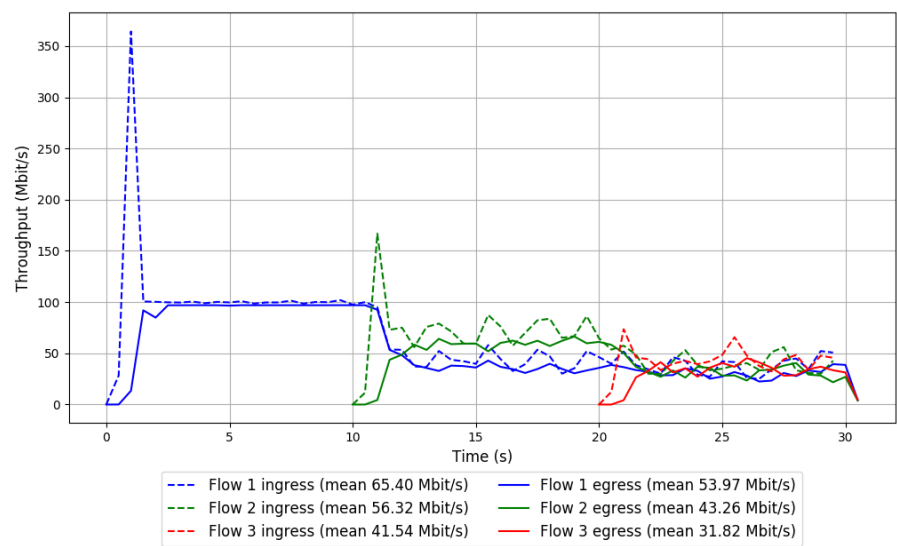
-- Flow 3:

Average throughput: 31.82 Mbit/s

95th percentile per-packet one-way delay: 113.414 ms

Loss rate: 23.40%

Run 5: Report of FillP — Data Link





Run 1: Statistics of FillP-Sheep

Start at: 2018-09-25 08:16:36

End at: 2018-09-25 08:17:06

Local clock offset: -3.612 ms

Remote clock offset: 0.747 ms

# Below is generated by plot.py at 2018-09-25 12:08:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.85 Mbit/s

95th percentile per-packet one-way delay: 124.235 ms

Loss rate: 20.55%

-- Flow 1:

Average throughput: 56.98 Mbit/s

95th percentile per-packet one-way delay: 122.741 ms

Loss rate: 14.37%

-- Flow 2:

Average throughput: 39.14 Mbit/s

95th percentile per-packet one-way delay: 124.428 ms

Loss rate: 29.20%

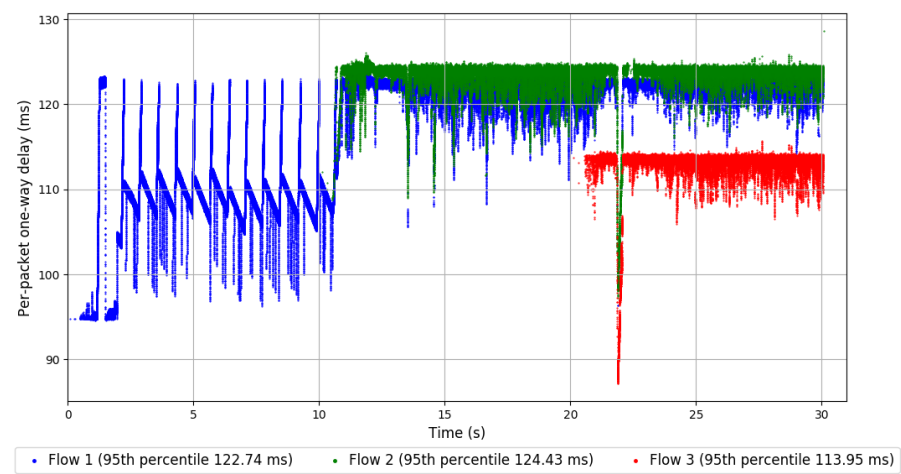
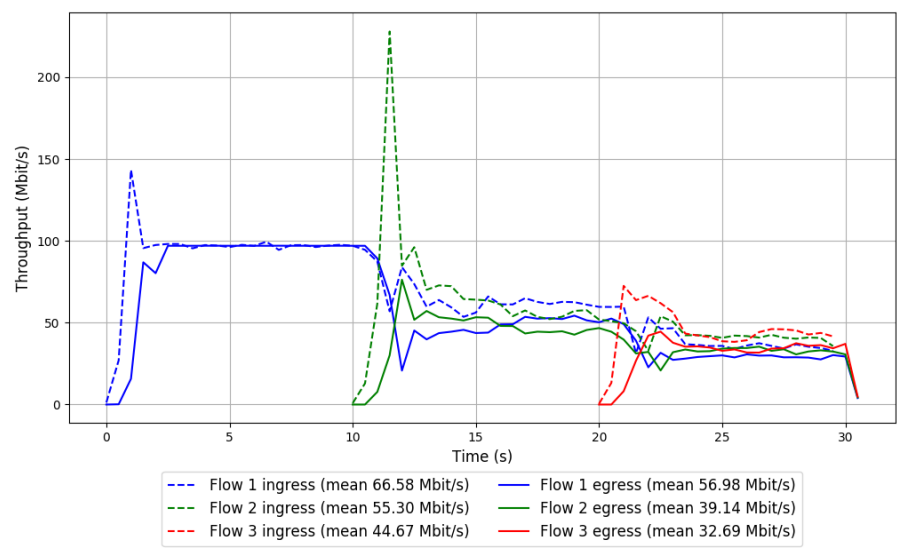
-- Flow 3:

Average throughput: 32.69 Mbit/s

95th percentile per-packet one-way delay: 113.946 ms

Loss rate: 26.82%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-09-25 09:02:34

End at: 2018-09-25 09:03:04

Local clock offset: -7.827 ms

Remote clock offset: 0.093 ms

# Below is generated by plot.py at 2018-09-25 12:09:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.40 Mbit/s

95th percentile per-packet one-way delay: 117.439 ms

Loss rate: 19.74%

-- Flow 1:

Average throughput: 54.78 Mbit/s

95th percentile per-packet one-way delay: 117.560 ms

Loss rate: 15.86%

-- Flow 2:

Average throughput: 42.51 Mbit/s

95th percentile per-packet one-way delay: 113.217 ms

Loss rate: 24.37%

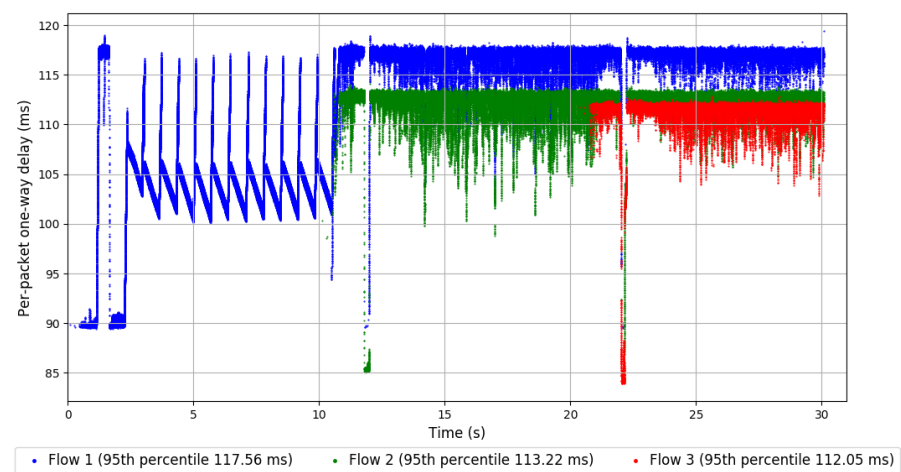
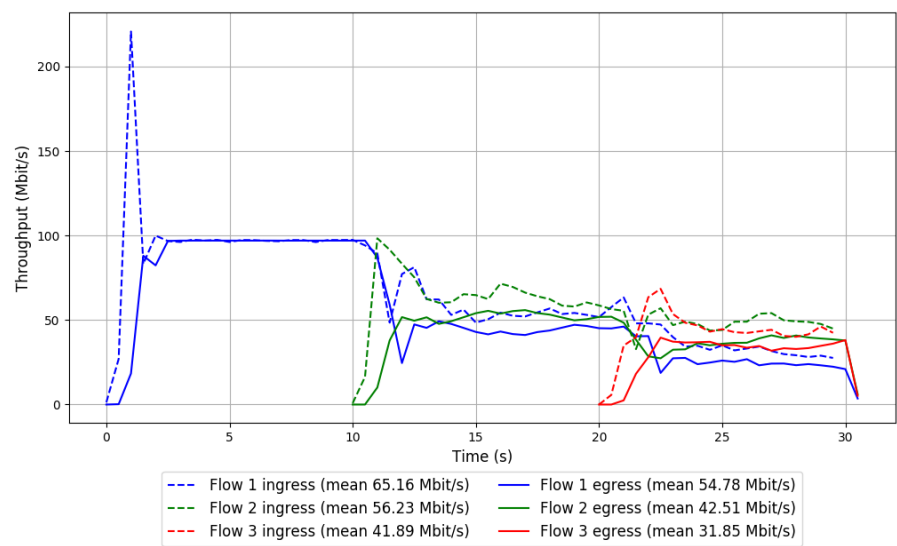
-- Flow 3:

Average throughput: 31.85 Mbit/s

95th percentile per-packet one-way delay: 112.049 ms

Loss rate: 25.51%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-09-25 09:49:06

End at: 2018-09-25 09:49:36

Local clock offset: -6.74 ms

Remote clock offset: 0.74 ms

# Below is generated by plot.py at 2018-09-25 12:09:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.60 Mbit/s

95th percentile per-packet one-way delay: 120.541 ms

Loss rate: 23.58%

-- Flow 1:

Average throughput: 52.47 Mbit/s

95th percentile per-packet one-way delay: 119.301 ms

Loss rate: 18.80%

-- Flow 2:

Average throughput: 42.88 Mbit/s

95th percentile per-packet one-way delay: 120.705 ms

Loss rate: 29.78%

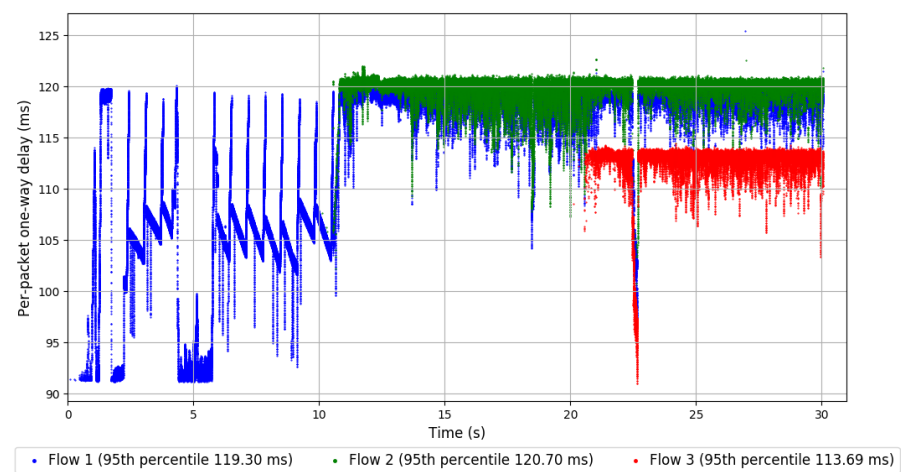
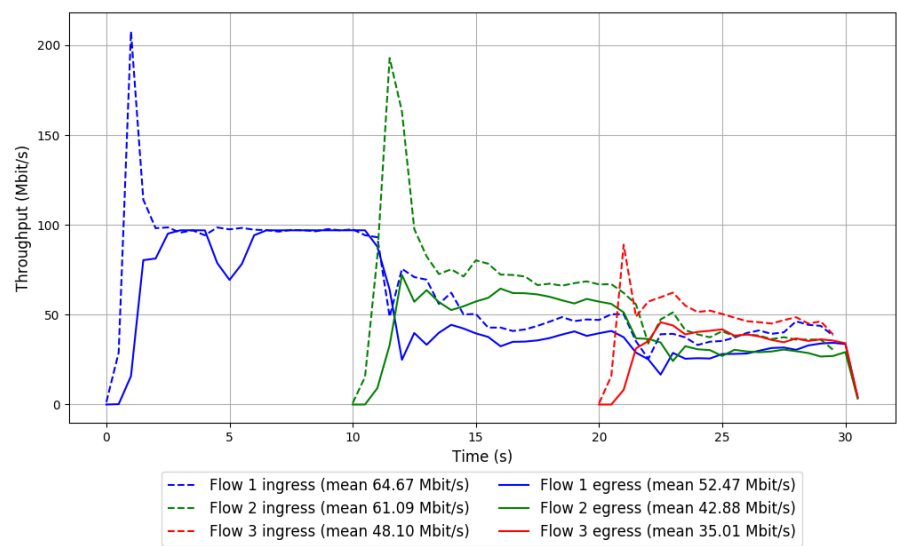
-- Flow 3:

Average throughput: 35.01 Mbit/s

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

Loss rate: 27.18%

Run 3: Report of FillP-Sheep — Data Link

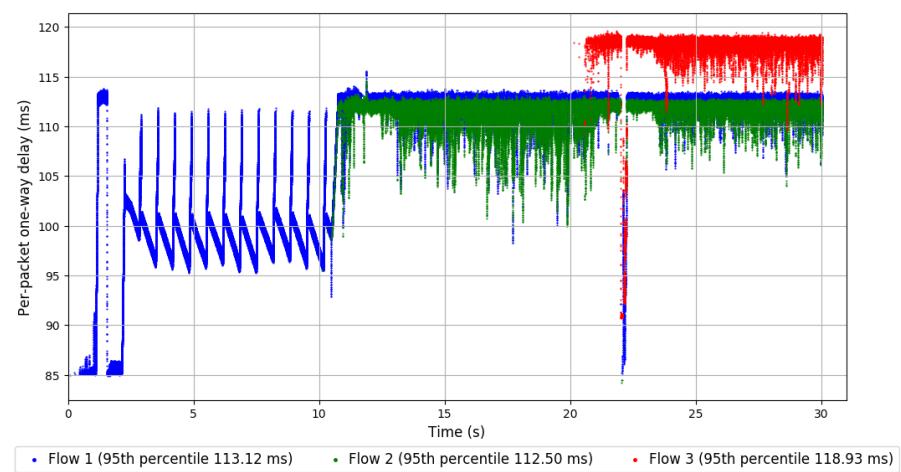
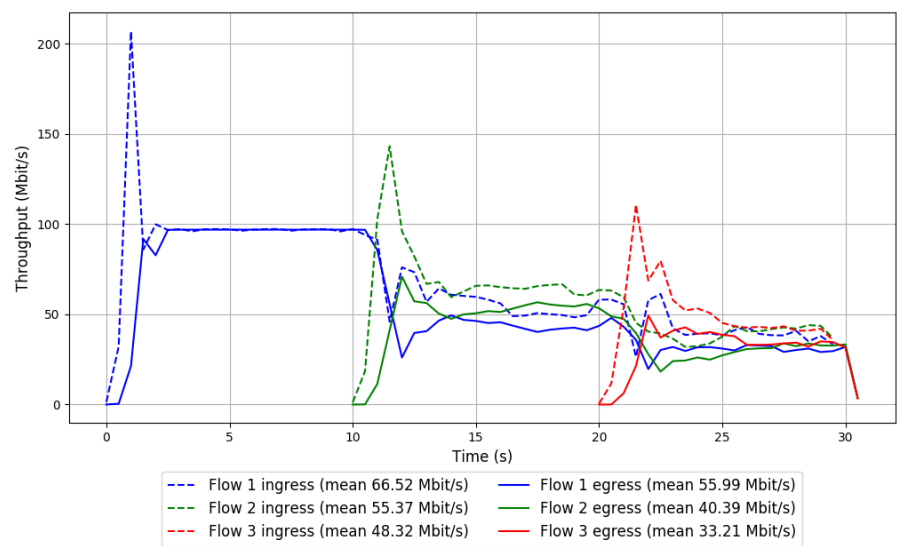


Run 4: Statistics of FillP-Sheep

Start at: 2018-09-25 10:34:29  
End at: 2018-09-25 10:34:59  
Local clock offset: -7.158 ms  
Remote clock offset: -0.475 ms

# Below is generated by plot.py at 2018-09-25 12:09:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.87 Mbit/s  
95th percentile per-packet one-way delay: 118.473 ms  
Loss rate: 21.31%  
-- Flow 1:  
Average throughput: 55.99 Mbit/s  
95th percentile per-packet one-way delay: 113.121 ms  
Loss rate: 15.76%  
-- Flow 2:  
Average throughput: 40.39 Mbit/s  
95th percentile per-packet one-way delay: 112.497 ms  
Loss rate: 26.98%  
-- Flow 3:  
Average throughput: 33.21 Mbit/s  
95th percentile per-packet one-way delay: 118.933 ms  
Loss rate: 31.32%

Run 4: Report of FillP-Sheep — Data Link





Run 5: Statistics of FillP-Sheep

Start at: 2018-09-25 11:20:22

End at: 2018-09-25 11:20:52

Local clock offset: -2.995 ms

Remote clock offset: 0.774 ms

# Below is generated by plot.py at 2018-09-25 12:09:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.05 Mbit/s

95th percentile per-packet one-way delay: 115.347 ms

Loss rate: 22.83%

-- Flow 1:

Average throughput: 56.80 Mbit/s

95th percentile per-packet one-way delay: 113.697 ms

Loss rate: 16.75%

-- Flow 2:

Average throughput: 39.87 Mbit/s

95th percentile per-packet one-way delay: 113.924 ms

Loss rate: 31.60%

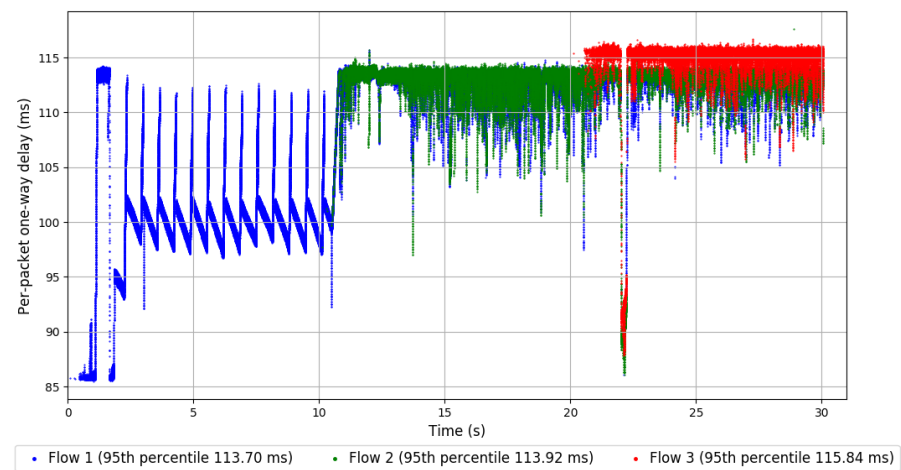
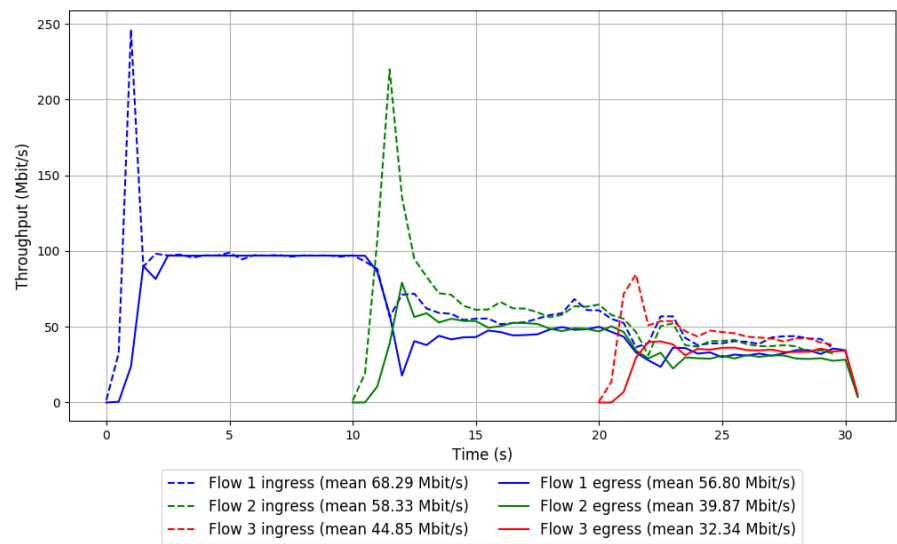
-- Flow 3:

Average throughput: 32.34 Mbit/s

95th percentile per-packet one-way delay: 115.839 ms

Loss rate: 27.89%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2018-09-25 08:12:34

End at: 2018-09-25 08:13:04

Local clock offset: -2.23 ms

Remote clock offset: 1.965 ms

# Below is generated by plot.py at 2018-09-25 12:09:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.87 Mbit/s

95th percentile per-packet one-way delay: 119.652 ms

Loss rate: 4.48%

-- Flow 1:

Average throughput: 58.76 Mbit/s

95th percentile per-packet one-way delay: 115.605 ms

Loss rate: 3.57%

-- Flow 2:

Average throughput: 34.87 Mbit/s

95th percentile per-packet one-way delay: 122.673 ms

Loss rate: 7.17%

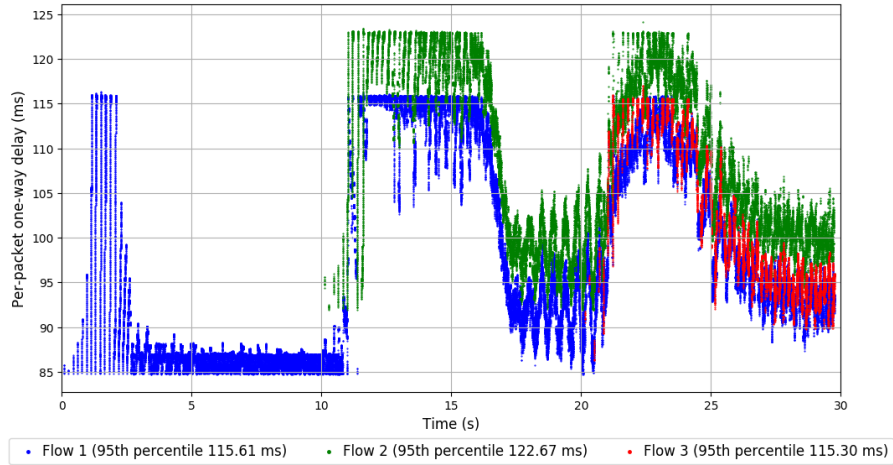
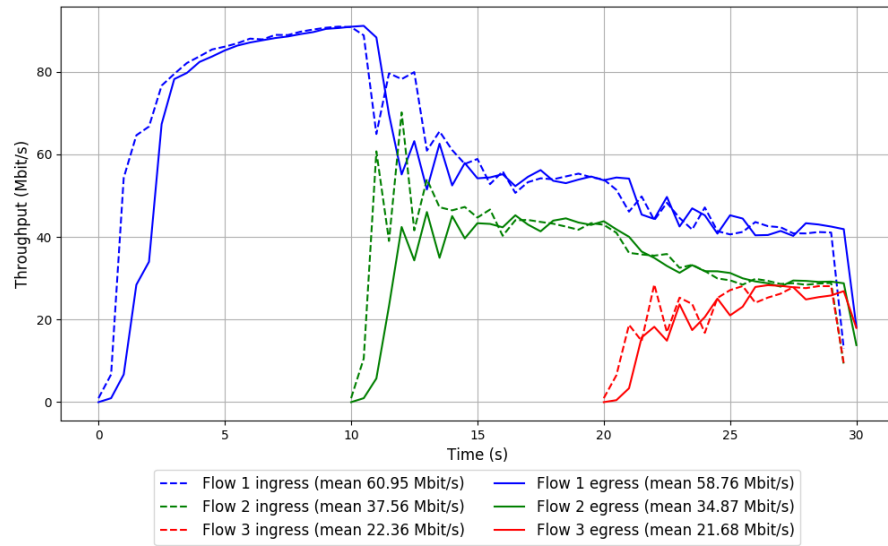
-- Flow 3:

Average throughput: 21.68 Mbit/s

95th percentile per-packet one-way delay: 115.303 ms

Loss rate: 2.95%

# Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-09-25 08:58:31

End at: 2018-09-25 08:59:01

Local clock offset: -8.28 ms

Remote clock offset: 1.287 ms

# Below is generated by plot.py at 2018-09-25 12:09:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.92 Mbit/s

95th percentile per-packet one-way delay: 117.072 ms

Loss rate: 5.04%

-- Flow 1:

Average throughput: 57.71 Mbit/s

95th percentile per-packet one-way delay: 117.039 ms

Loss rate: 4.37%

-- Flow 2:

Average throughput: 36.85 Mbit/s

95th percentile per-packet one-way delay: 117.612 ms

Loss rate: 6.94%

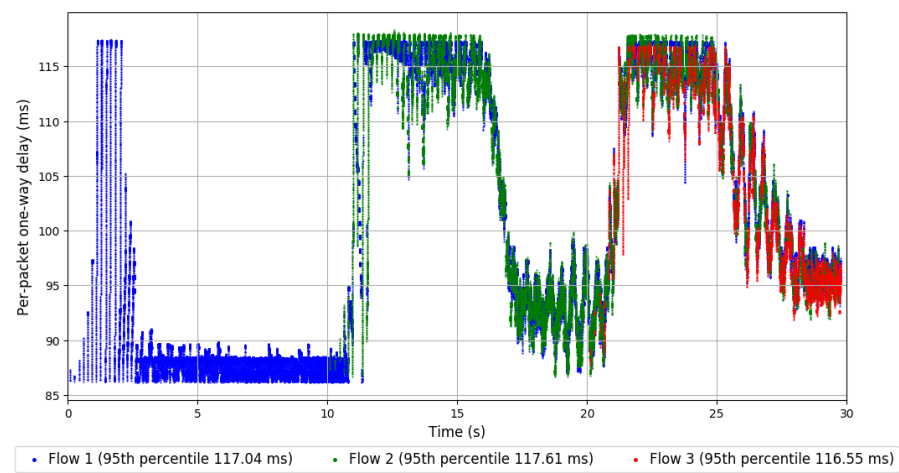
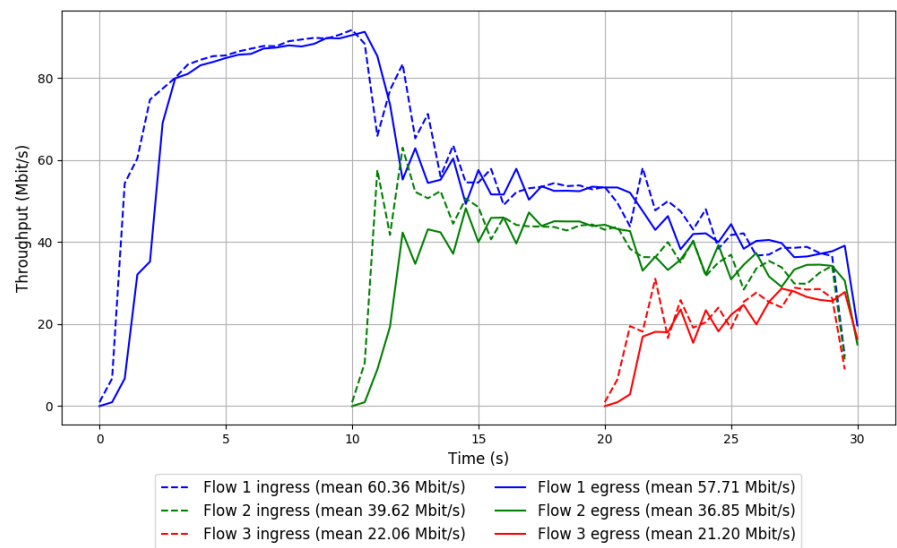
-- Flow 3:

Average throughput: 21.20 Mbit/s

95th percentile per-packet one-way delay: 116.545 ms

Loss rate: 3.81%

Run 2: Report of Indigo — Data Link

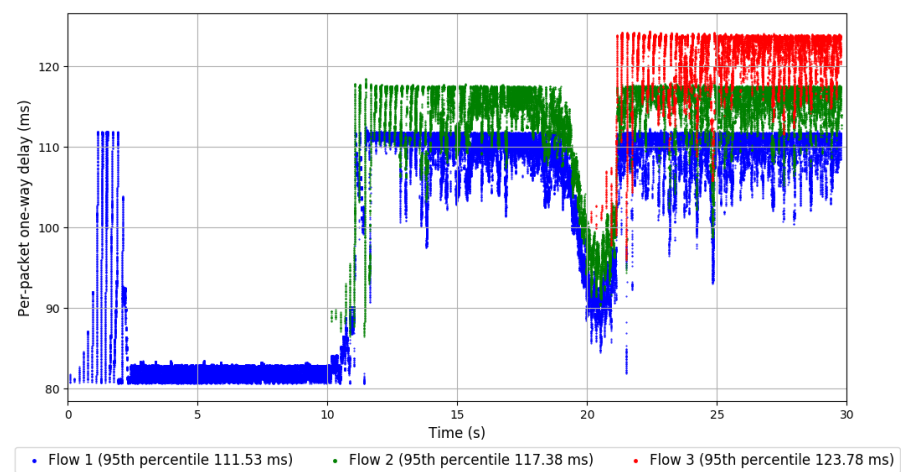
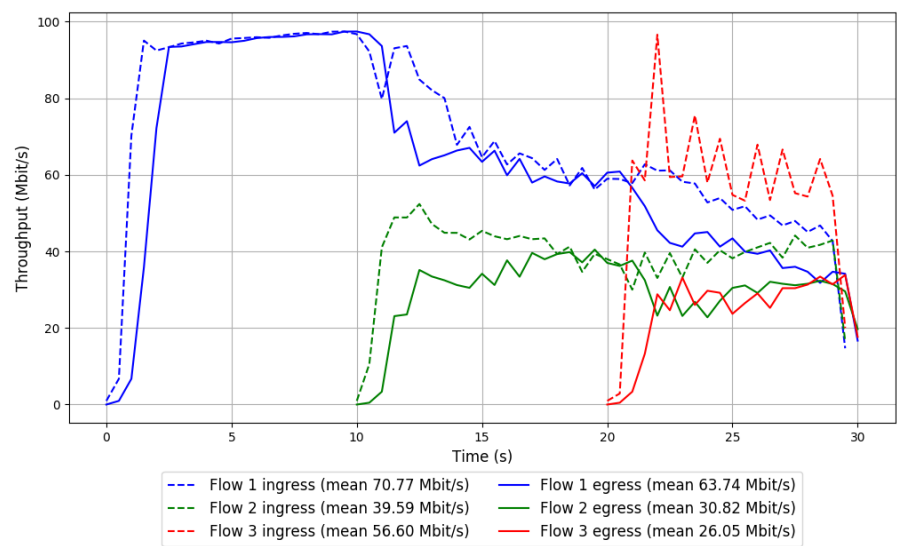


Run 3: Statistics of Indigo

Start at: 2018-09-25 09:45:14  
End at: 2018-09-25 09:45:44  
Local clock offset: -5.326 ms  
Remote clock offset: -3.221 ms

# Below is generated by plot.py at 2018-09-25 12:09:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.56 Mbit/s  
95th percentile per-packet one-way delay: 122.097 ms  
Loss rate: 19.63%  
-- Flow 1:  
Average throughput: 63.74 Mbit/s  
95th percentile per-packet one-way delay: 111.525 ms  
Loss rate: 9.83%  
-- Flow 2:  
Average throughput: 30.82 Mbit/s  
95th percentile per-packet one-way delay: 117.375 ms  
Loss rate: 22.08%  
-- Flow 3:  
Average throughput: 26.05 Mbit/s  
95th percentile per-packet one-way delay: 123.783 ms  
Loss rate: 53.94%

Run 3: Report of Indigo — Data Link



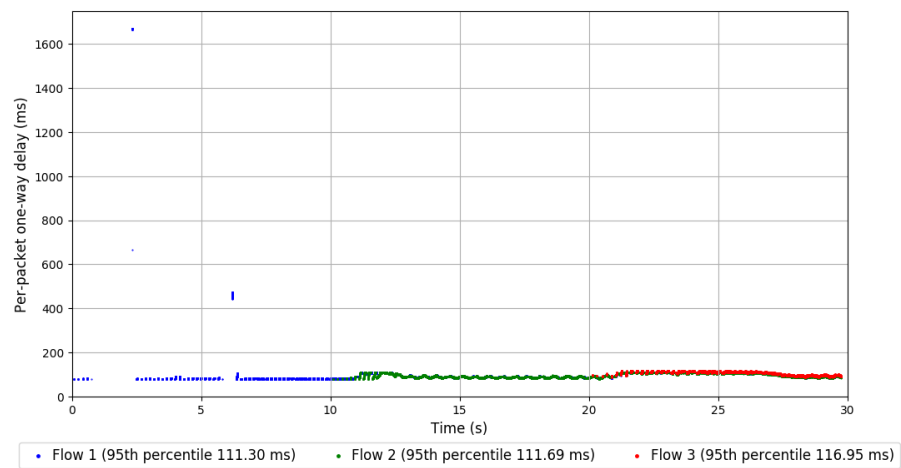
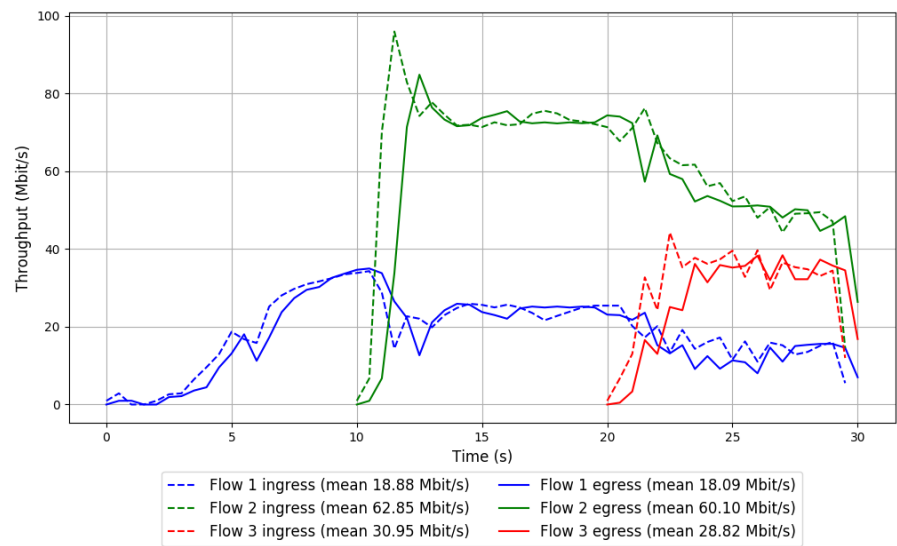


Run 4: Statistics of Indigo

Start at: 2018-09-25 10:31:34  
End at: 2018-09-25 10:32:04  
Local clock offset: -7.908 ms  
Remote clock offset: -4.484 ms

# Below is generated by plot.py at 2018-09-25 12:09:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 67.20 Mbit/s  
95th percentile per-packet one-way delay: 112.192 ms  
Loss rate: 4.65%  
-- Flow 1:  
Average throughput: 18.09 Mbit/s  
95th percentile per-packet one-way delay: 111.299 ms  
Loss rate: 4.12%  
-- Flow 2:  
Average throughput: 60.10 Mbit/s  
95th percentile per-packet one-way delay: 111.689 ms  
Loss rate: 4.33%  
-- Flow 3:  
Average throughput: 28.82 Mbit/s  
95th percentile per-packet one-way delay: 116.949 ms  
Loss rate: 6.97%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-09-25 11:17:00

End at: 2018-09-25 11:17:30

Local clock offset: -3.037 ms

Remote clock offset: 1.911 ms

# Below is generated by plot.py at 2018-09-25 12:10:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.08 Mbit/s

95th percentile per-packet one-way delay: 124.313 ms

Loss rate: 22.77%

-- Flow 1:

Average throughput: 63.07 Mbit/s

95th percentile per-packet one-way delay: 118.200 ms

Loss rate: 11.22%

-- Flow 2:

Average throughput: 32.81 Mbit/s

95th percentile per-packet one-way delay: 124.987 ms

Loss rate: 16.47%

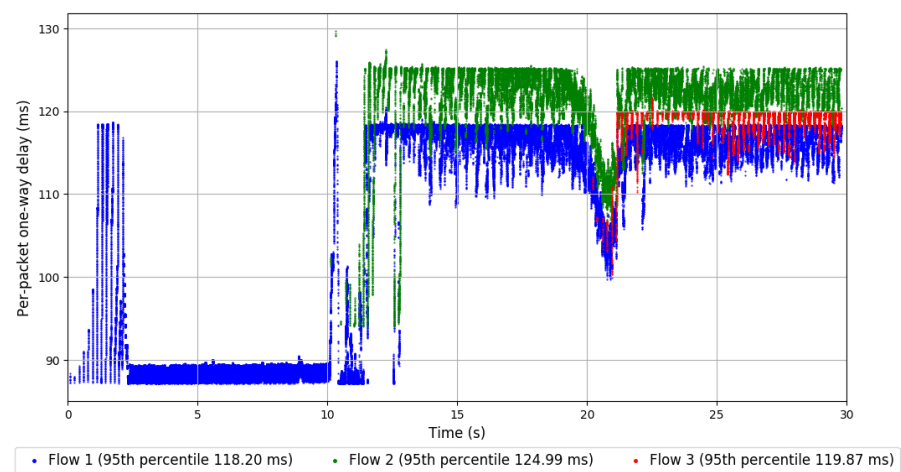
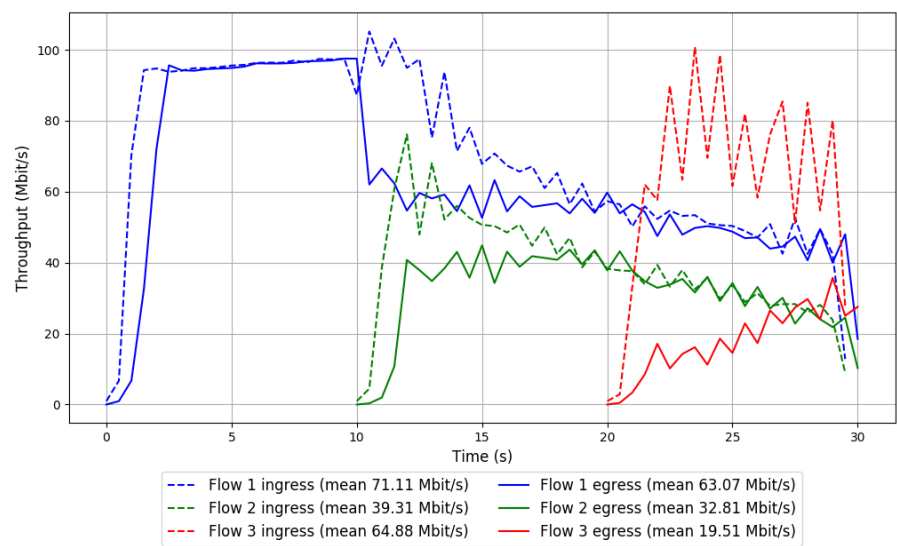
-- Flow 3:

Average throughput: 19.51 Mbit/s

95th percentile per-packet one-way delay: 119.870 ms

Loss rate: 69.90%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-96d2da3

Start at: 2018-09-25 08:39:43

End at: 2018-09-25 08:40:13

Local clock offset: -4.735 ms

Remote clock offset: 1.448 ms

# Below is generated by plot.py at 2018-09-25 12:10:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 76.75 Mbit/s

95th percentile per-packet one-way delay: 123.888 ms

Loss rate: 57.27%

-- Flow 1:

Average throughput: 46.56 Mbit/s

95th percentile per-packet one-way delay: 120.820 ms

Loss rate: 55.11%

-- Flow 2:

Average throughput: 33.95 Mbit/s

95th percentile per-packet one-way delay: 127.271 ms

Loss rate: 59.92%

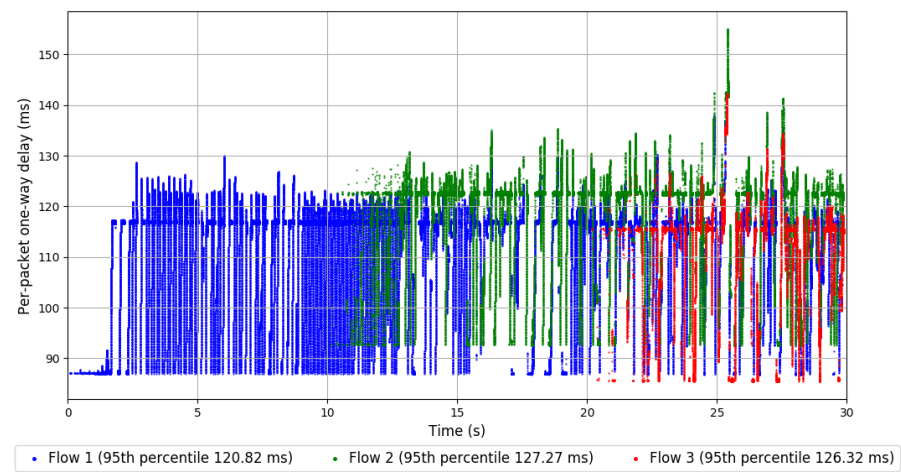
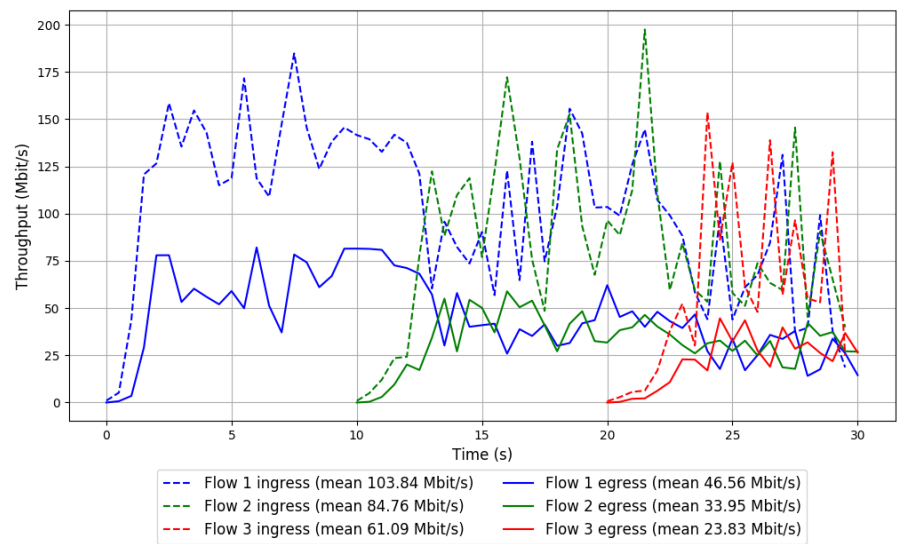
-- Flow 3:

Average throughput: 23.83 Mbit/s

95th percentile per-packet one-way delay: 126.318 ms

Loss rate: 61.01%

Run 1: Report of Indigo-96d2da3 — Data Link



Run 2: Statistics of Indigo-96d2da3

Start at: 2018-09-25 09:25:20

End at: 2018-09-25 09:25:50

Local clock offset: -4.346 ms

Remote clock offset: 2.097 ms

# Below is generated by plot.py at 2018-09-25 12:10:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 77.74 Mbit/s

95th percentile per-packet one-way delay: 120.195 ms

Loss rate: 57.39%

-- Flow 1:

Average throughput: 46.38 Mbit/s

95th percentile per-packet one-way delay: 120.638 ms

Loss rate: 55.68%

-- Flow 2:

Average throughput: 35.89 Mbit/s

95th percentile per-packet one-way delay: 119.512 ms

Loss rate: 59.58%

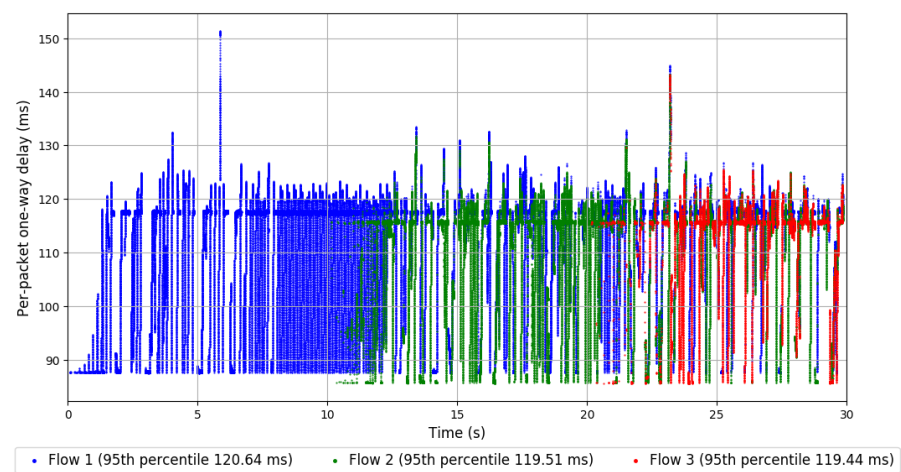
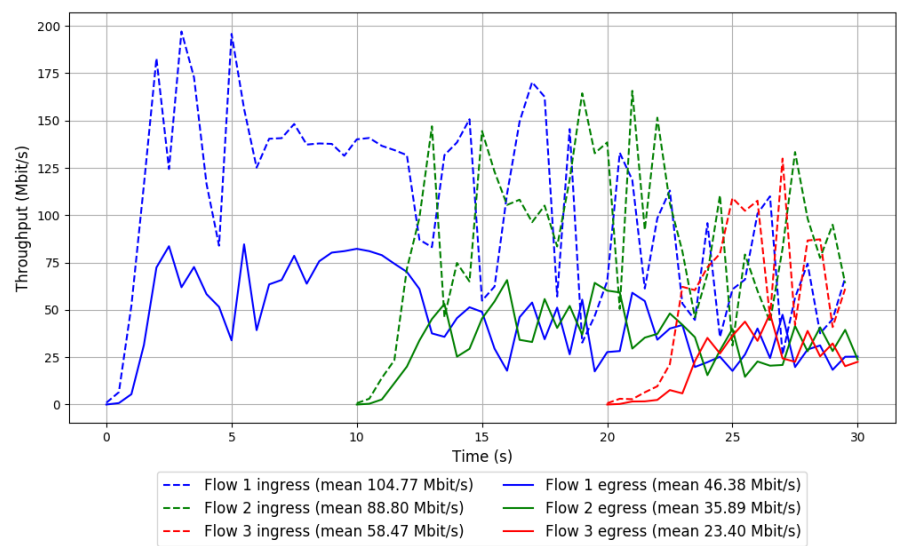
-- Flow 3:

Average throughput: 23.40 Mbit/s

95th percentile per-packet one-way delay: 119.437 ms

Loss rate: 59.98%

Run 2: Report of Indigo-96d2da3 — Data Link



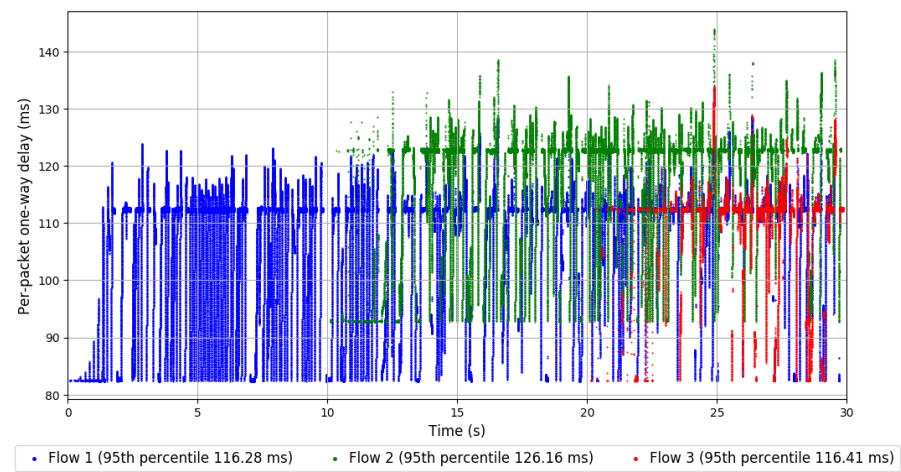
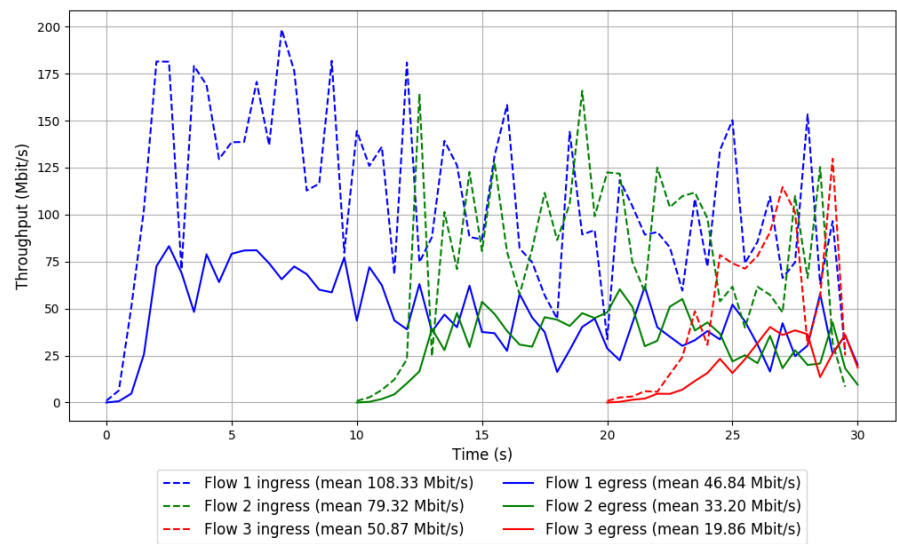


Run 3: Statistics of Indigo-96d2da3

Start at: 2018-09-25 10:12:16  
End at: 2018-09-25 10:12:46  
Local clock offset: -7.313 ms  
Remote clock offset: -3.424 ms

# Below is generated by plot.py at 2018-09-25 12:10:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.24 Mbit/s  
95th percentile per-packet one-way delay: 122.944 ms  
Loss rate: 57.51%  
-- Flow 1:  
Average throughput: 46.84 Mbit/s  
95th percentile per-packet one-way delay: 116.283 ms  
Loss rate: 56.72%  
-- Flow 2:  
Average throughput: 33.20 Mbit/s  
95th percentile per-packet one-way delay: 126.162 ms  
Loss rate: 58.08%  
-- Flow 3:  
Average throughput: 19.86 Mbit/s  
95th percentile per-packet one-way delay: 116.405 ms  
Loss rate: 60.89%

Run 3: Report of Indigo-96d2da3 — Data Link

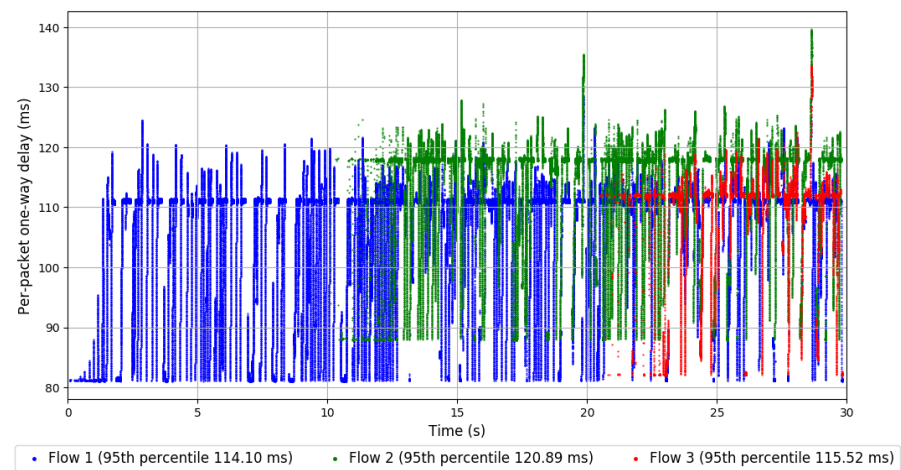
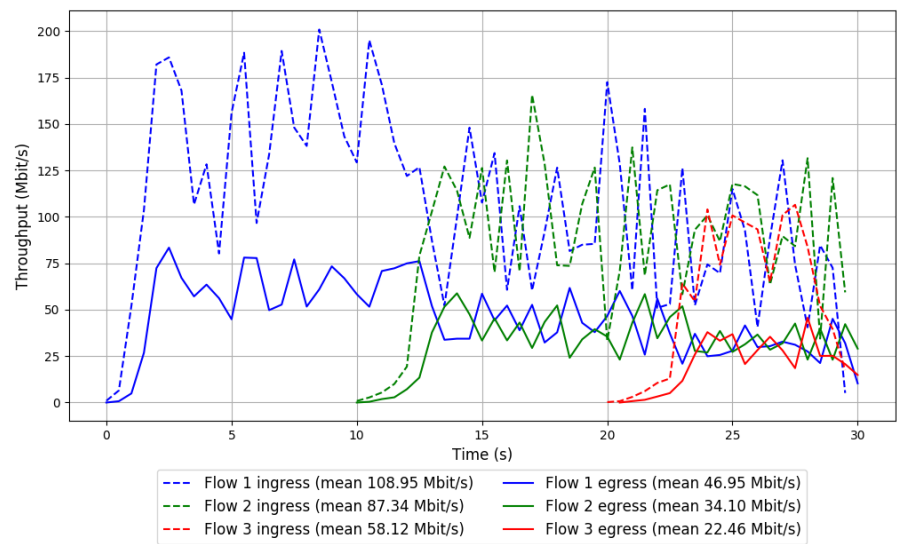


Run 4: Statistics of Indigo-96d2da3

Start at: 2018-09-25 10:57:32  
End at: 2018-09-25 10:58:02  
Local clock offset: -3.833 ms  
Remote clock offset: -4.352 ms

# Below is generated by plot.py at 2018-09-25 12:10:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.51 Mbit/s  
95th percentile per-packet one-way delay: 118.178 ms  
Loss rate: 58.62%  
-- Flow 1:  
Average throughput: 46.95 Mbit/s  
95th percentile per-packet one-way delay: 114.104 ms  
Loss rate: 56.91%  
-- Flow 2:  
Average throughput: 34.10 Mbit/s  
95th percentile per-packet one-way delay: 120.892 ms  
Loss rate: 60.96%  
-- Flow 3:  
Average throughput: 22.46 Mbit/s  
95th percentile per-packet one-way delay: 115.520 ms  
Loss rate: 61.48%

Run 4: Report of Indigo-96d2da3 — Data Link



Run 5: Statistics of Indigo-96d2da3

Start at: 2018-09-25 11:44:58

End at: 2018-09-25 11:45:28

Local clock offset: -2.503 ms

Remote clock offset: 1.973 ms

# Below is generated by plot.py at 2018-09-25 12:10:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 79.34 Mbit/s

95th percentile per-packet one-way delay: 122.599 ms

Loss rate: 57.38%

-- Flow 1:

Average throughput: 49.64 Mbit/s

95th percentile per-packet one-way delay: 122.730 ms

Loss rate: 54.12%

-- Flow 2:

Average throughput: 34.70 Mbit/s

95th percentile per-packet one-way delay: 123.283 ms

Loss rate: 61.79%

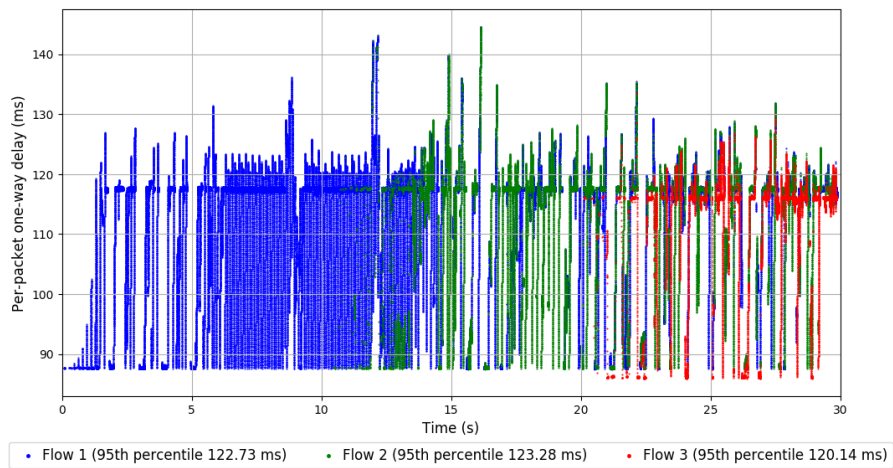
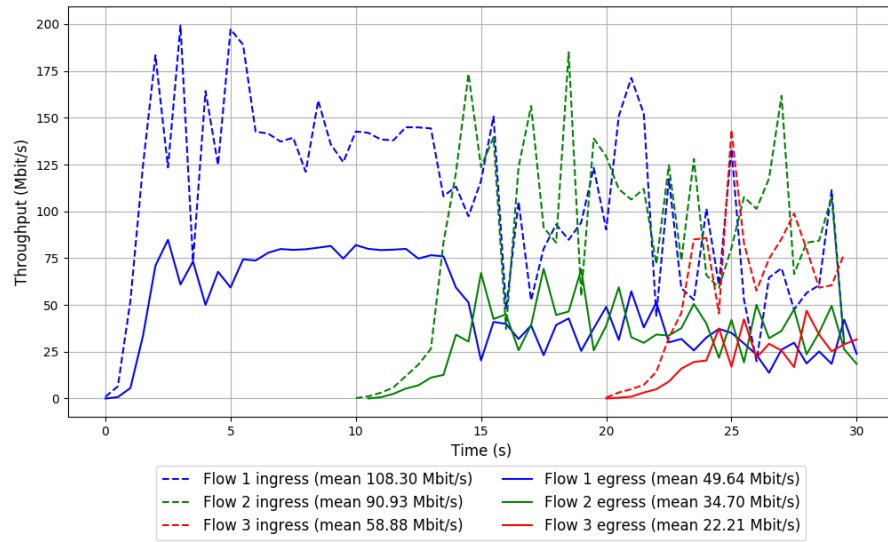
-- Flow 3:

Average throughput: 22.21 Mbit/s

95th percentile per-packet one-way delay: 120.139 ms

Loss rate: 62.28%

# Run 5: Report of Indigo-96d2da3 — Data Link

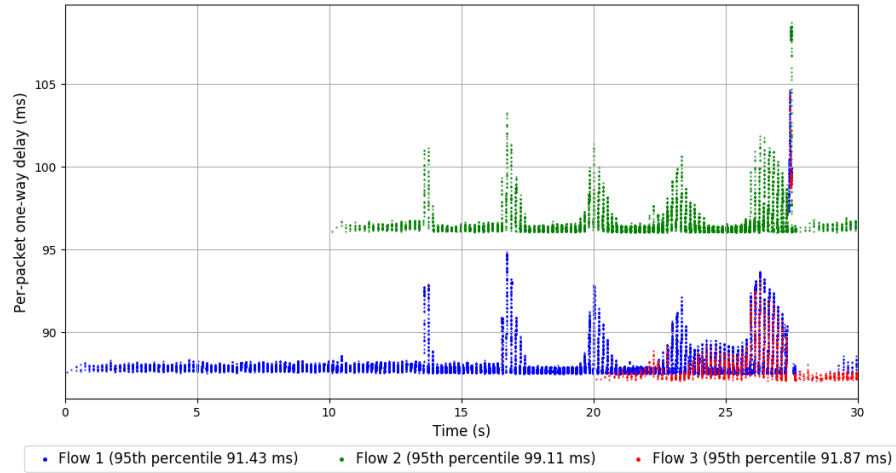
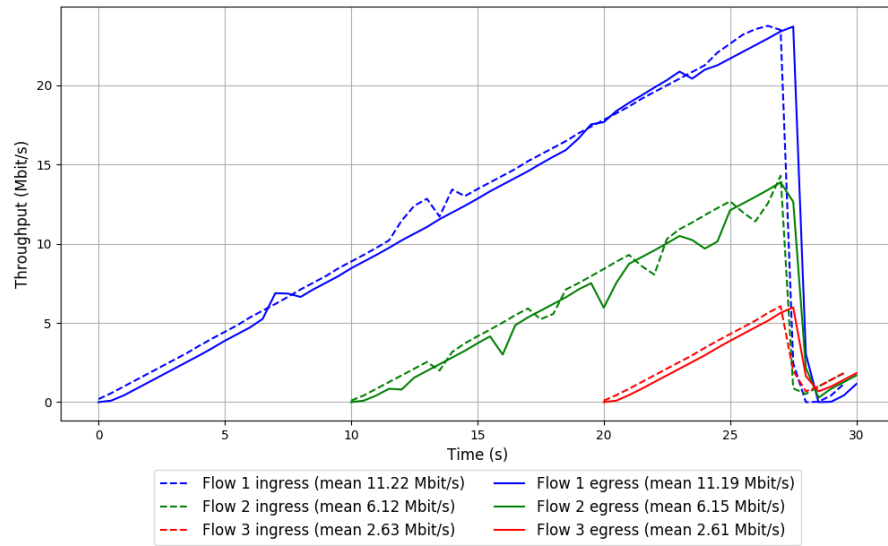


```
Run 1: Statistics of LEDBAT

Start at: 2018-09-25 08:43:40
End at: 2018-09-25 08:44:10
Local clock offset: -6.057 ms
Remote clock offset: 1.373 ms

# Below is generated by plot.py at 2018-09-25 12:10:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.12 Mbit/s
95th percentile per-packet one-way delay: 97.468 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 11.19 Mbit/s
95th percentile per-packet one-way delay: 91.432 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 6.15 Mbit/s
95th percentile per-packet one-way delay: 99.106 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 2.61 Mbit/s
95th percentile per-packet one-way delay: 91.866 ms
Loss rate: 0.77%
```

## Run 1: Report of LEDBAT — Data Link



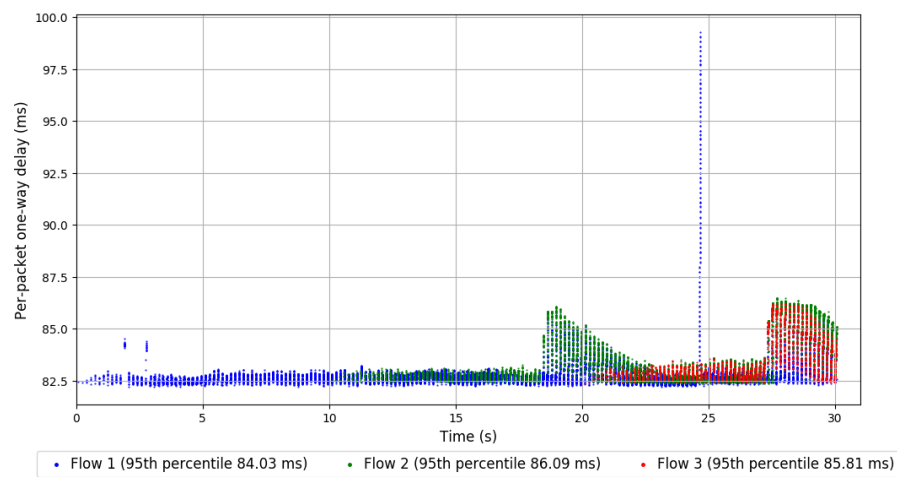
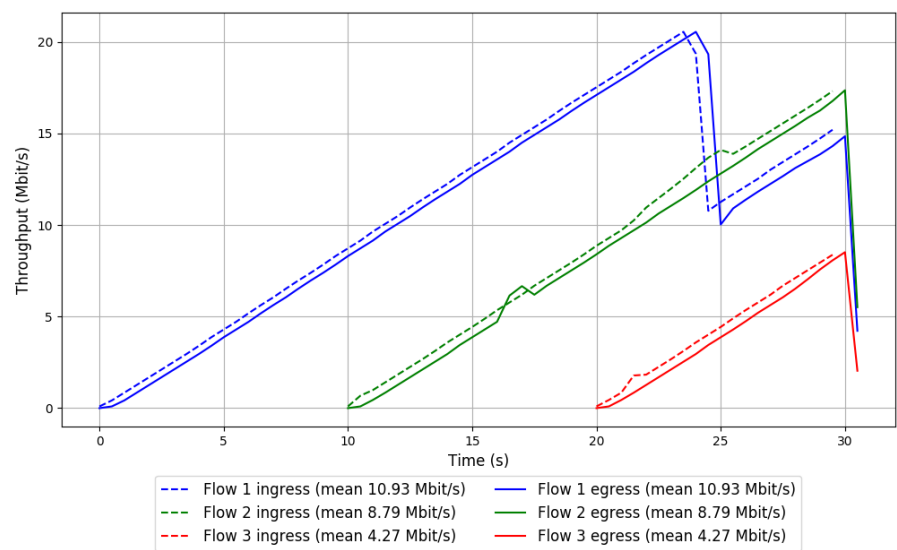


Run 2: Statistics of LEDBAT

Start at: 2018-09-25 09:29:36  
End at: 2018-09-25 09:30:06  
Local clock offset: -4.018 ms  
Remote clock offset: -3.156 ms

# Below is generated by plot.py at 2018-09-25 12:10:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 18.20 Mbit/s  
95th percentile per-packet one-way delay: 85.608 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 10.93 Mbit/s  
95th percentile per-packet one-way delay: 84.030 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 8.79 Mbit/s  
95th percentile per-packet one-way delay: 86.095 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 4.27 Mbit/s  
95th percentile per-packet one-way delay: 85.812 ms  
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-09-25 10:16:21

End at: 2018-09-25 10:16:51

Local clock offset: -7.163 ms

Remote clock offset: 0.735 ms

# Below is generated by plot.py at 2018-09-25 12:10:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 20.34 Mbit/s

95th percentile per-packet one-way delay: 88.075 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 13.15 Mbit/s

95th percentile per-packet one-way delay: 85.848 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.70 Mbit/s

95th percentile per-packet one-way delay: 88.161 ms

Loss rate: 0.00%

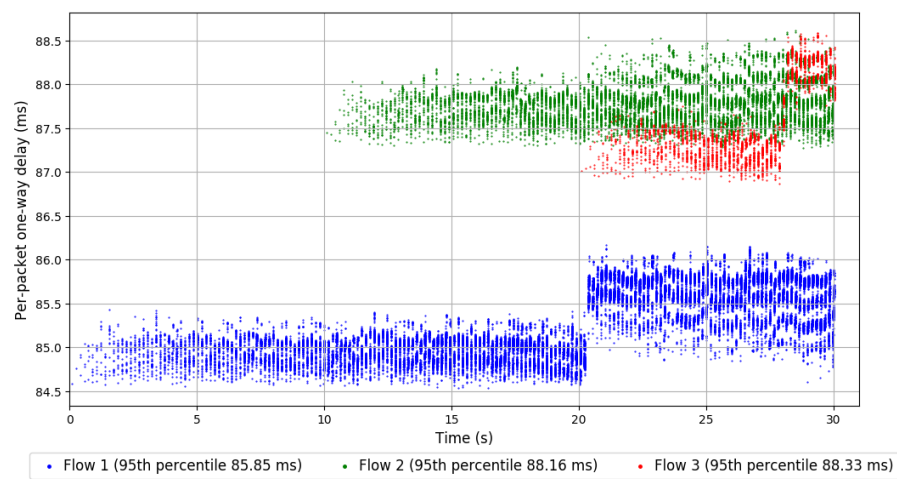
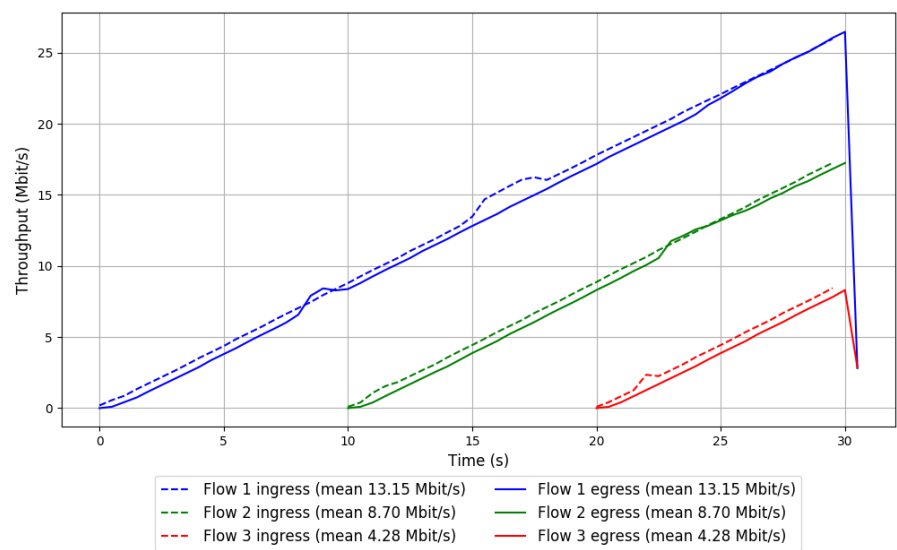
-- Flow 3:

Average throughput: 4.28 Mbit/s

95th percentile per-packet one-way delay: 88.332 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

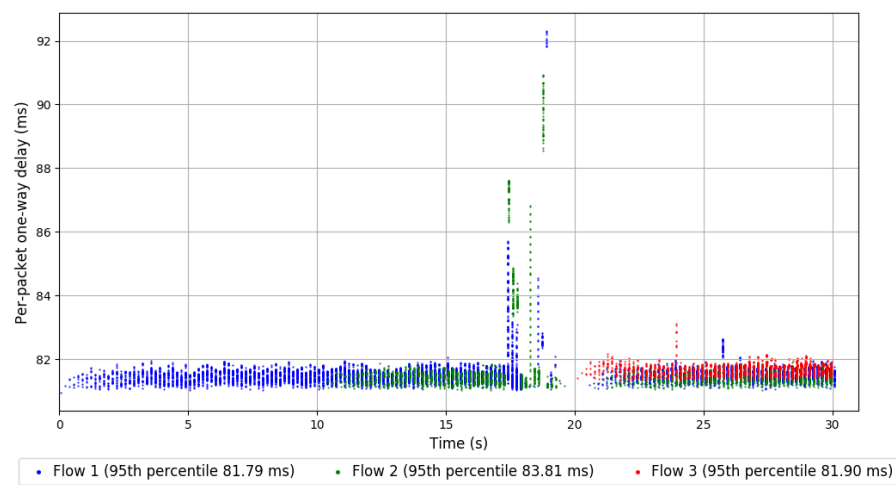
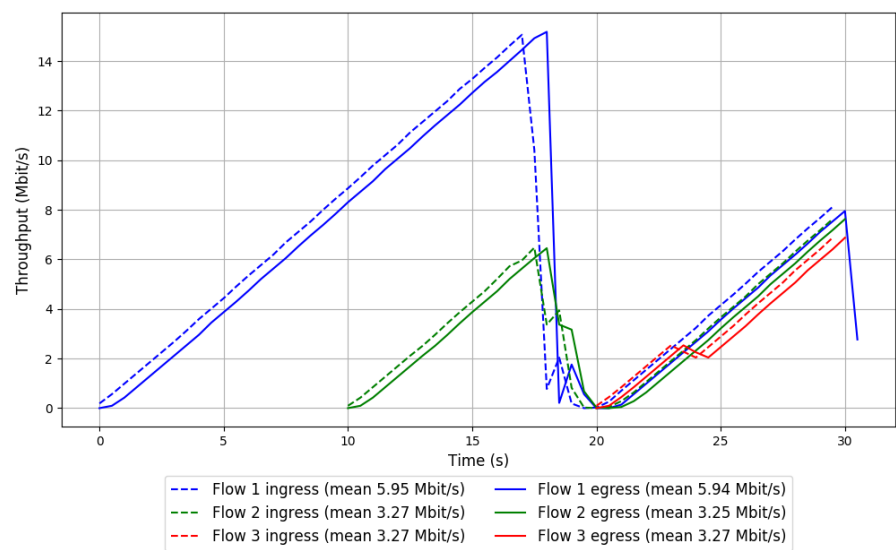


Run 4: Statistics of LEDBAT

Start at: 2018-09-25 11:01:52  
End at: 2018-09-25 11:02:22  
Local clock offset: -2.702 ms  
Remote clock offset: -4.408 ms

# Below is generated by plot.py at 2018-09-25 12:10:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 9.16 Mbit/s  
95th percentile per-packet one-way delay: 81.843 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 5.94 Mbit/s  
95th percentile per-packet one-way delay: 81.791 ms  
Loss rate: 0.22%  
-- Flow 2:  
Average throughput: 3.25 Mbit/s  
95th percentile per-packet one-way delay: 83.805 ms  
Loss rate: 0.72%  
-- Flow 3:  
Average throughput: 3.27 Mbit/s  
95th percentile per-packet one-way delay: 81.898 ms  
Loss rate: 0.04%

Run 4: Report of LEDBAT — Data Link

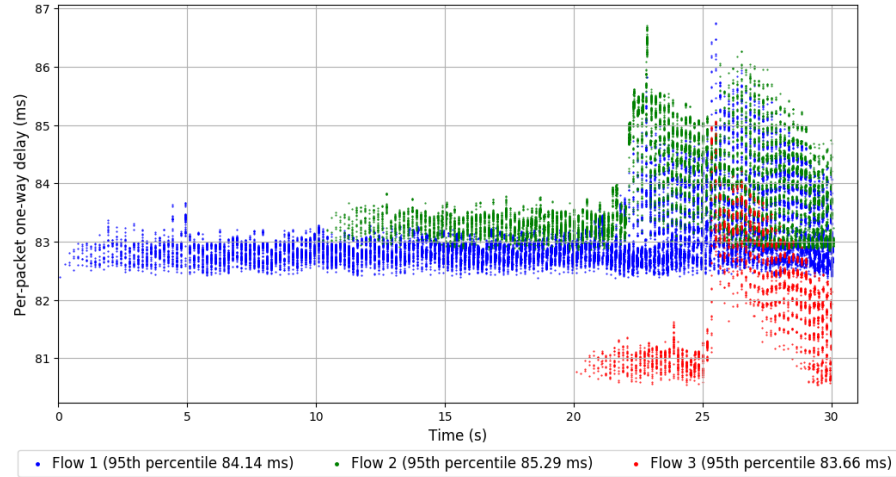
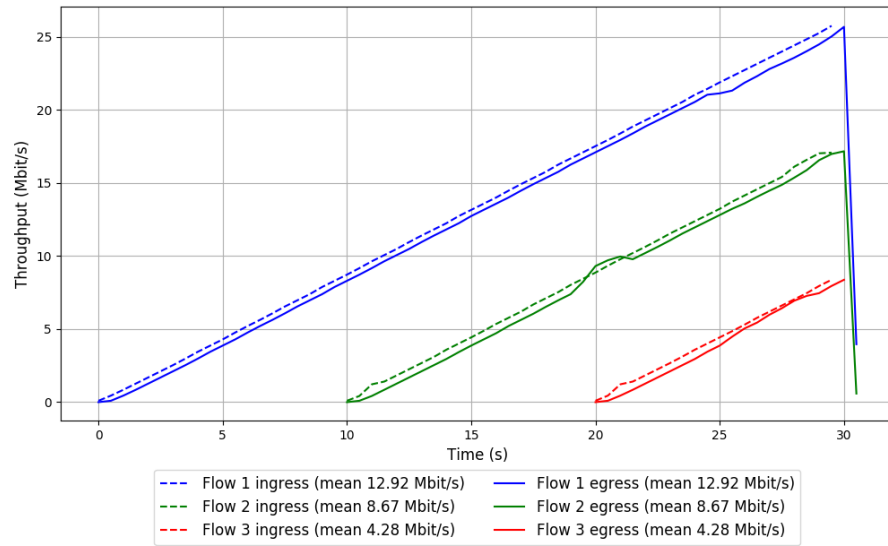


Run 5: Statistics of LEDBAT

Start at: 2018-09-25 11:49:20  
End at: 2018-09-25 11:49:50  
Local clock offset: -3.608 ms  
Remote clock offset: -4.305 ms

# Below is generated by plot.py at 2018-09-25 12:10:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 20.08 Mbit/s  
95th percentile per-packet one-way delay: 84.775 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 12.92 Mbit/s  
95th percentile per-packet one-way delay: 84.140 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 8.67 Mbit/s  
95th percentile per-packet one-way delay: 85.293 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 4.28 Mbit/s  
95th percentile per-packet one-way delay: 83.657 ms  
Loss rate: 0.00%

## Run 5: Report of LEDBAT — Data Link



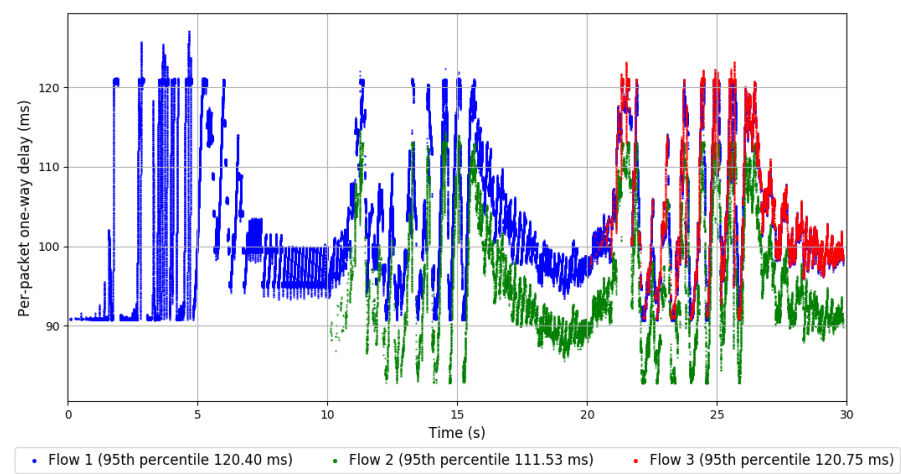
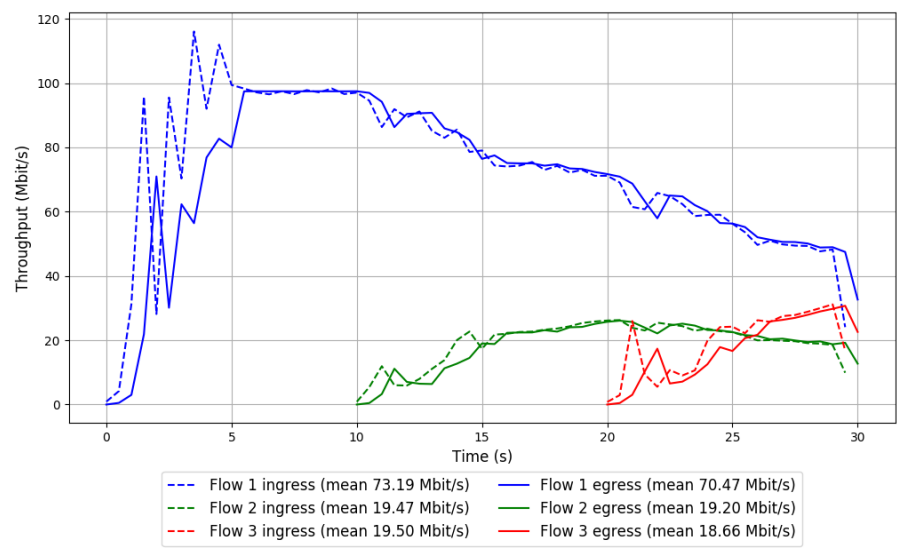


Run 1: Statistics of Indigo-Muses

Start at: 2018-09-25 08:49:30  
End at: 2018-09-25 08:50:00  
Local clock offset: -7.231 ms  
Remote clock offset: -3.885 ms

# Below is generated by plot.py at 2018-09-25 12:11:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.29 Mbit/s  
95th percentile per-packet one-way delay: 120.048 ms  
Loss rate: 3.45%  
-- Flow 1:  
Average throughput: 70.47 Mbit/s  
95th percentile per-packet one-way delay: 120.401 ms  
Loss rate: 3.73%  
-- Flow 2:  
Average throughput: 19.20 Mbit/s  
95th percentile per-packet one-way delay: 111.532 ms  
Loss rate: 1.37%  
-- Flow 3:  
Average throughput: 18.66 Mbit/s  
95th percentile per-packet one-way delay: 120.751 ms  
Loss rate: 4.41%

Run 1: Report of Indigo-Muses — Data Link

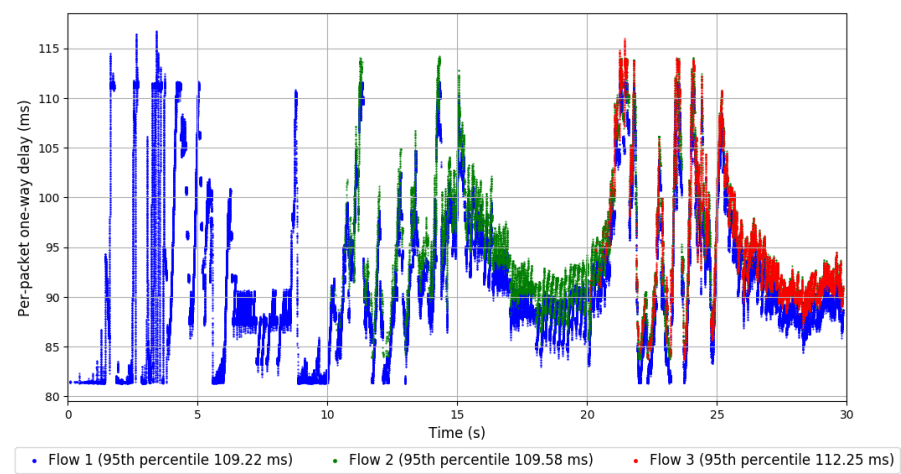
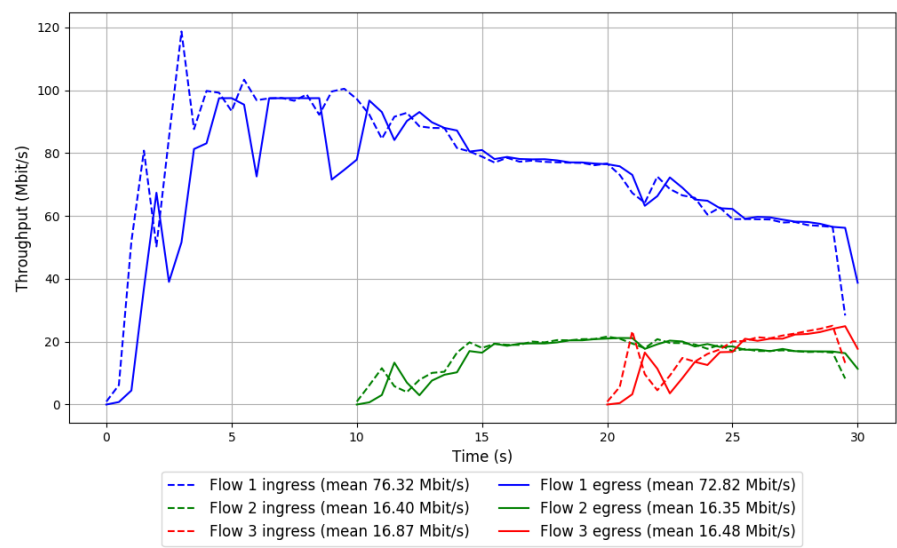


Run 2: Statistics of Indigo-Muses

Start at: 2018-09-25 09:36:02  
End at: 2018-09-25 09:36:32  
Local clock offset: -4.473 ms  
Remote clock offset: -3.109 ms

# Below is generated by plot.py at 2018-09-25 12:11:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.05 Mbit/s  
95th percentile per-packet one-way delay: 109.505 ms  
Loss rate: 3.94%  
-- Flow 1:  
Average throughput: 72.82 Mbit/s  
95th percentile per-packet one-way delay: 109.217 ms  
Loss rate: 4.57%  
-- Flow 2:  
Average throughput: 16.35 Mbit/s  
95th percentile per-packet one-way delay: 109.582 ms  
Loss rate: 0.31%  
-- Flow 3:  
Average throughput: 16.48 Mbit/s  
95th percentile per-packet one-way delay: 112.255 ms  
Loss rate: 2.32%

Run 2: Report of Indigo-Muses — Data Link

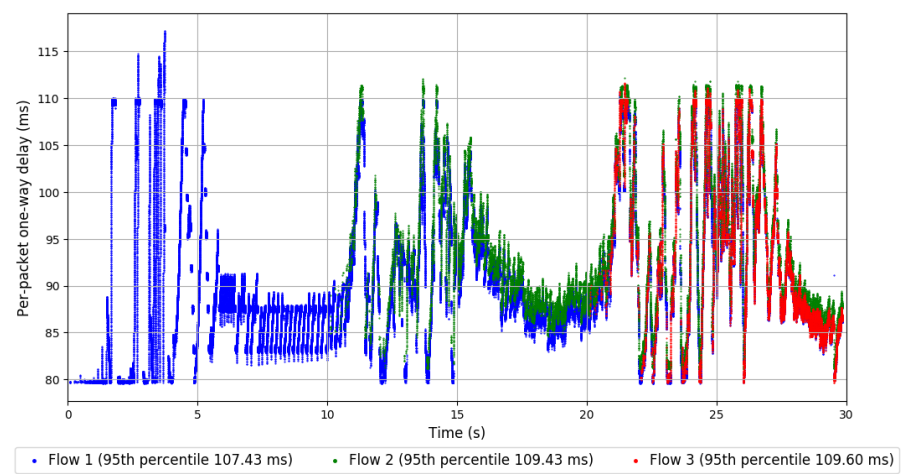
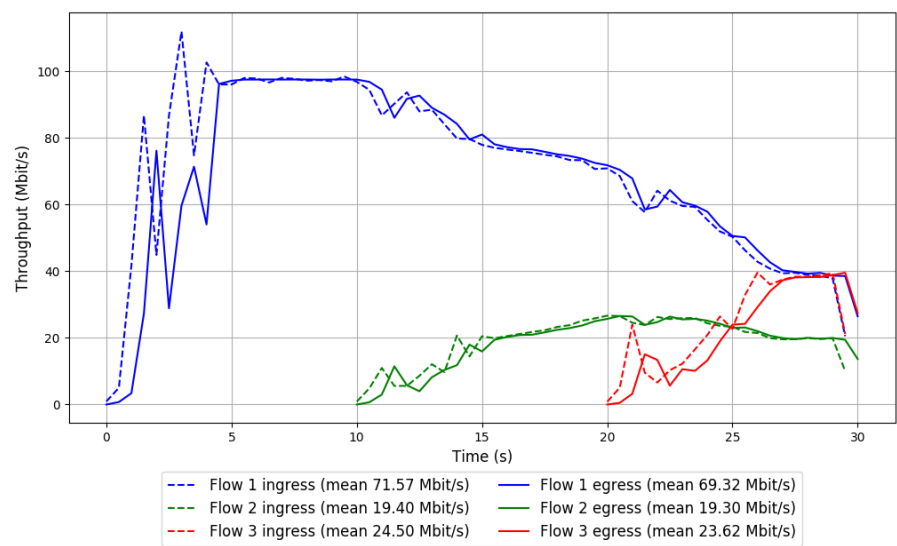


Run 3: Statistics of Indigo-Muses

Start at: 2018-09-25 10:22:27  
End at: 2018-09-25 10:22:57  
Local clock offset: -7.078 ms  
Remote clock offset: -4.525 ms

# Below is generated by plot.py at 2018-09-25 12:11:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.83 Mbit/s  
95th percentile per-packet one-way delay: 108.408 ms  
Loss rate: 2.80%  
-- Flow 1:  
Average throughput: 69.32 Mbit/s  
95th percentile per-packet one-way delay: 107.430 ms  
Loss rate: 3.12%  
-- Flow 2:  
Average throughput: 19.30 Mbit/s  
95th percentile per-packet one-way delay: 109.433 ms  
Loss rate: 0.56%  
-- Flow 3:  
Average throughput: 23.62 Mbit/s  
95th percentile per-packet one-way delay: 109.597 ms  
Loss rate: 3.60%

Run 3: Report of Indigo-Muses — Data Link



Run 4: Statistics of Indigo-Muses

Start at: 2018-09-25 11:07:34

End at: 2018-09-25 11:08:04

Local clock offset: -2.31 ms

Remote clock offset: 1.741 ms

# Below is generated by plot.py at 2018-09-25 12:11:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.96 Mbit/s

95th percentile per-packet one-way delay: 117.134 ms

Loss rate: 2.75%

-- Flow 1:

Average throughput: 65.03 Mbit/s

95th percentile per-packet one-way delay: 116.131 ms

Loss rate: 3.09%

-- Flow 2:

Average throughput: 25.07 Mbit/s

95th percentile per-packet one-way delay: 115.802 ms

Loss rate: 1.69%

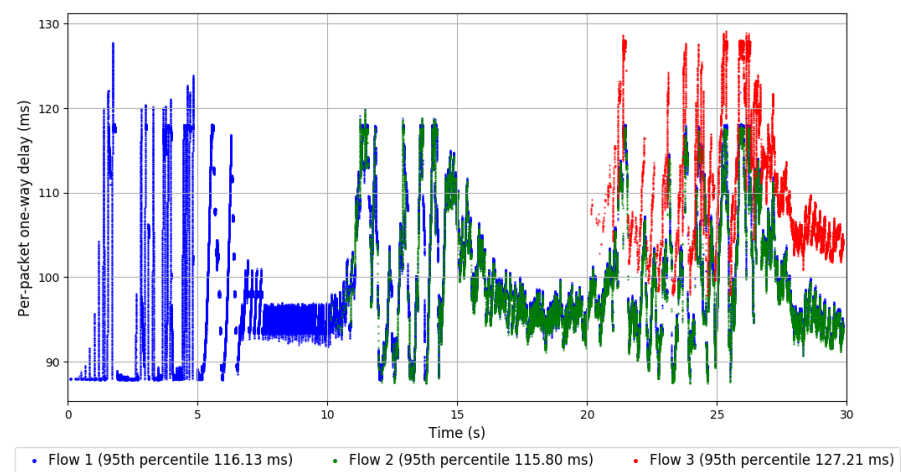
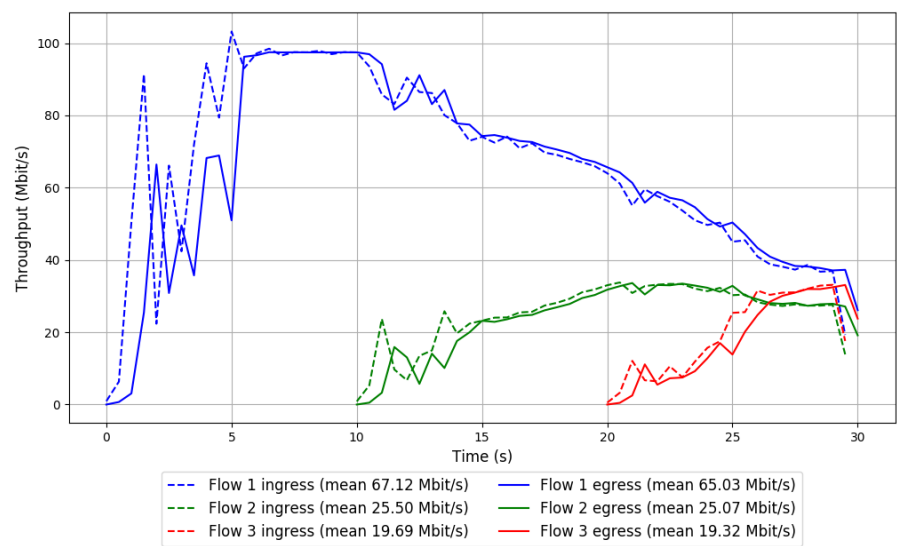
-- Flow 3:

Average throughput: 19.32 Mbit/s

95th percentile per-packet one-way delay: 127.209 ms

Loss rate: 2.04%

Run 4: Report of Indigo-Muses — Data Link



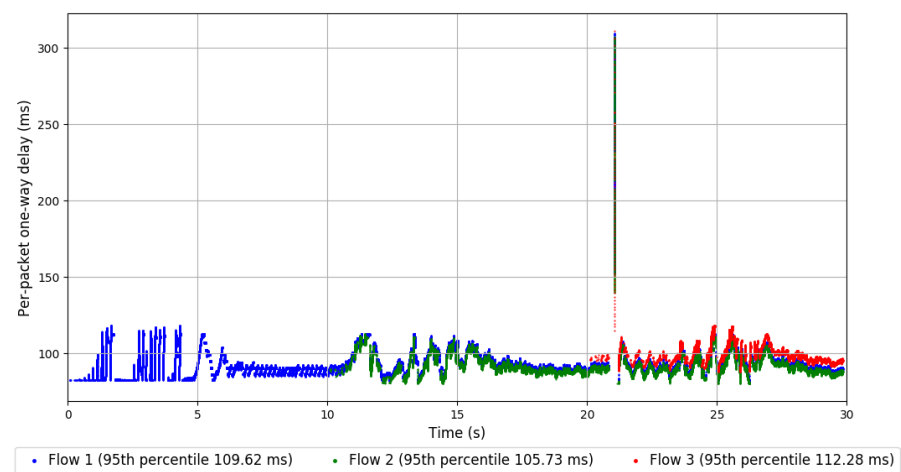
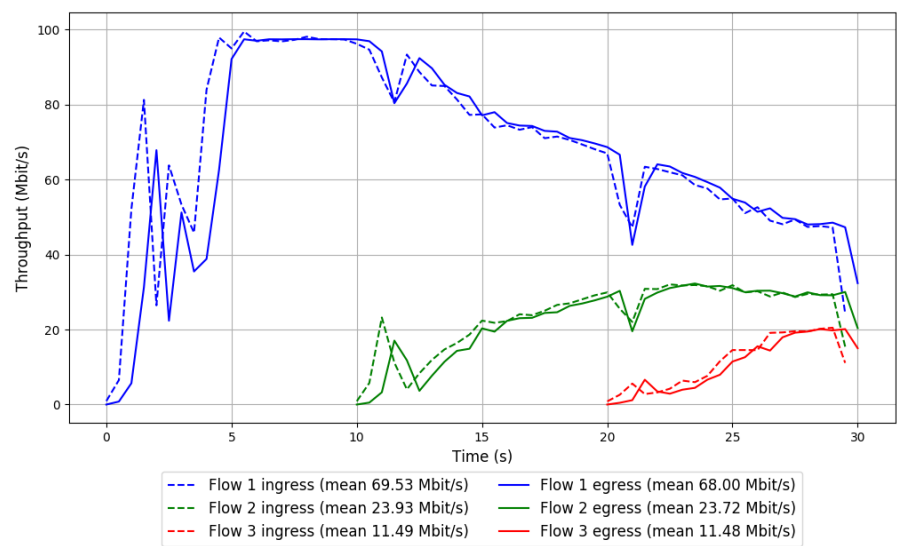


Run 5: Statistics of Indigo-Muses

Start at: 2018-09-25 11:55:30  
End at: 2018-09-25 11:56:00  
Local clock offset: -3.068 ms  
Remote clock offset: -3.167 ms

# Below is generated by plot.py at 2018-09-25 12:11:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.49 Mbit/s  
95th percentile per-packet one-way delay: 109.118 ms  
Loss rate: 1.87%  
-- Flow 1:  
Average throughput: 68.00 Mbit/s  
95th percentile per-packet one-way delay: 109.623 ms  
Loss rate: 2.19%  
-- Flow 2:  
Average throughput: 23.72 Mbit/s  
95th percentile per-packet one-way delay: 105.726 ms  
Loss rate: 0.87%  
-- Flow 3:  
Average throughput: 11.48 Mbit/s  
95th percentile per-packet one-way delay: 112.279 ms  
Loss rate: 0.18%

Run 5: Report of Indigo-Muses — Data Link

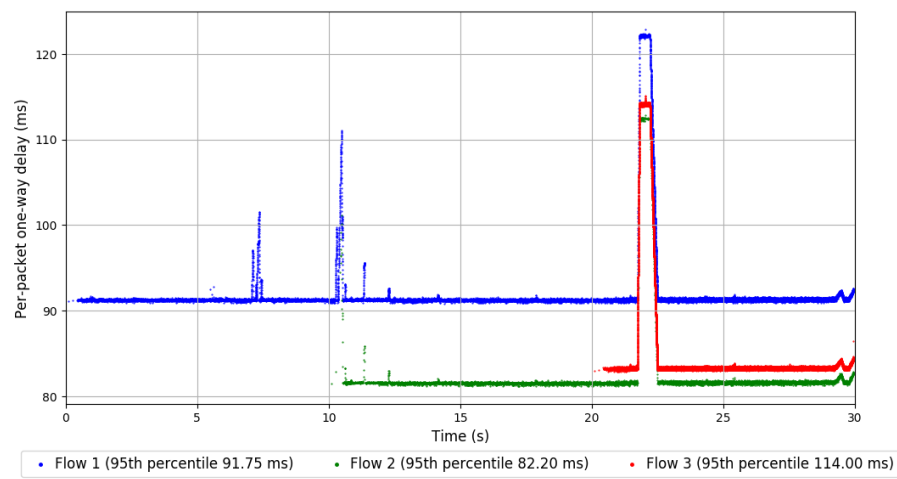
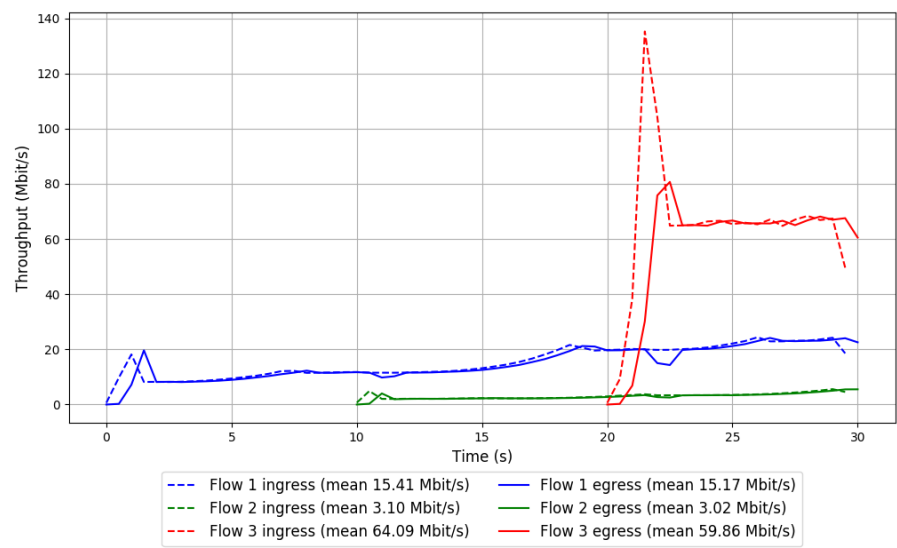


Run 1: Statistics of PCC-Allegro

Start at: 2018-09-25 08:20:00  
End at: 2018-09-25 08:20:30  
Local clock offset: -3.206 ms  
Remote clock offset: -2.209 ms

# Below is generated by plot.py at 2018-09-25 12:11:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 36.93 Mbit/s  
95th percentile per-packet one-way delay: 100.111 ms  
Loss rate: 4.37%  
-- Flow 1:  
Average throughput: 15.17 Mbit/s  
95th percentile per-packet one-way delay: 91.750 ms  
Loss rate: 1.61%  
-- Flow 2:  
Average throughput: 3.02 Mbit/s  
95th percentile per-packet one-way delay: 82.200 ms  
Loss rate: 2.39%  
-- Flow 3:  
Average throughput: 59.86 Mbit/s  
95th percentile per-packet one-way delay: 113.998 ms  
Loss rate: 6.58%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-09-25 09:05:39

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

Local clock offset: -8.025 ms

Remote clock offset: 0.116 ms

# Below is generated by plot.py at 2018-09-25 12:11:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.14 Mbit/s

95th percentile per-packet one-way delay: 114.604 ms

Loss rate: 2.66%

-- Flow 1:

Average throughput: 76.75 Mbit/s

95th percentile per-packet one-way delay: 114.563 ms

Loss rate: 2.56%

-- Flow 2:

Average throughput: 9.07 Mbit/s

95th percentile per-packet one-way delay: 115.997 ms

Loss rate: 3.50%

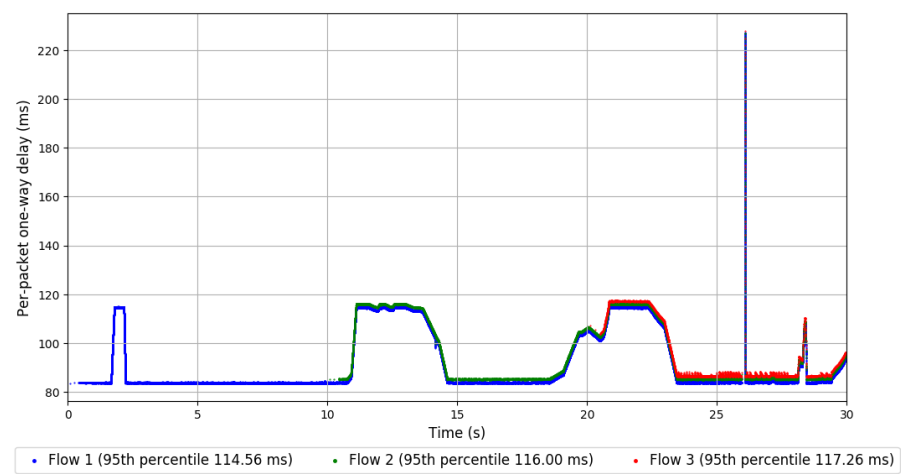
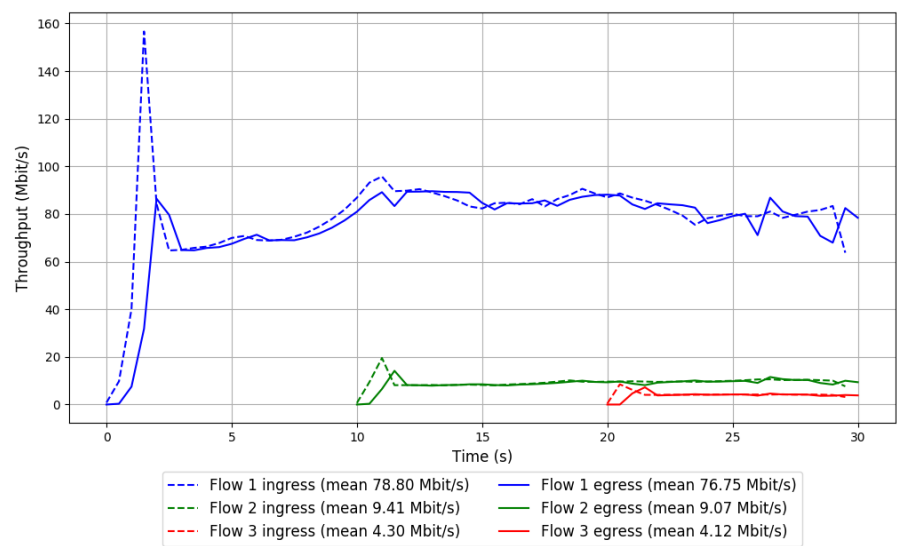
-- Flow 3:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 117.259 ms

Loss rate: 4.27%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-09-25 09:52:16

End at: 2018-09-25 09:52:46

Local clock offset: -6.387 ms

Remote clock offset: -3.26 ms

# Below is generated by plot.py at 2018-09-25 12:12:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.86 Mbit/s

95th percentile per-packet one-way delay: 113.206 ms

Loss rate: 2.36%

-- Flow 1:

Average throughput: 78.88 Mbit/s

95th percentile per-packet one-way delay: 113.196 ms

Loss rate: 2.24%

-- Flow 2:

Average throughput: 8.07 Mbit/s

95th percentile per-packet one-way delay: 112.287 ms

Loss rate: 2.73%

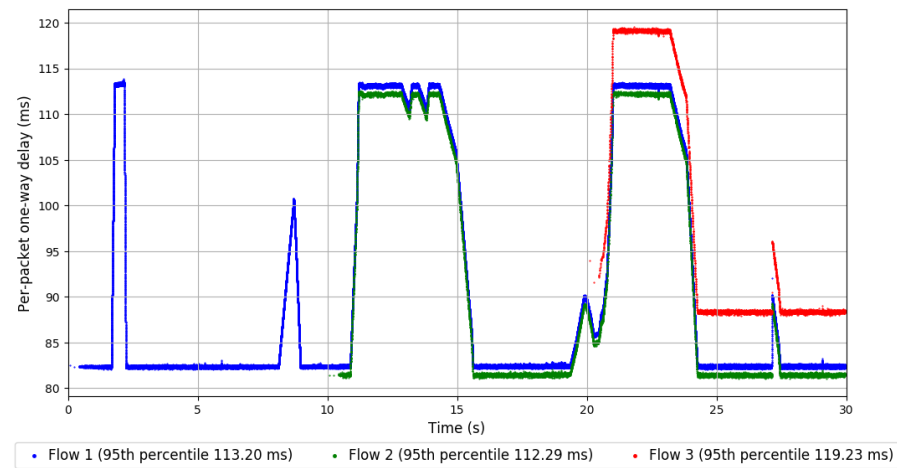
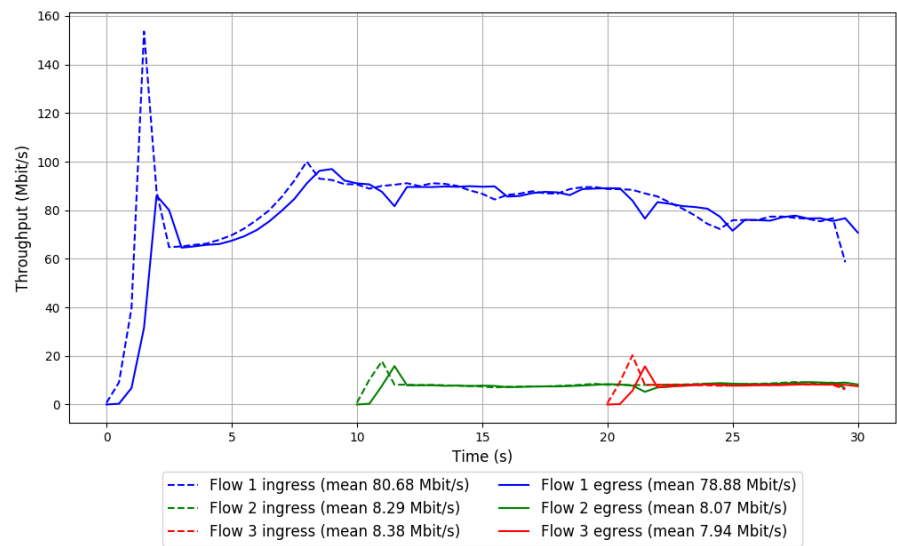
-- Flow 3:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 119.235 ms

Loss rate: 5.36%

Run 3: Report of PCC-Allegro — Data Link





Run 4: Statistics of PCC-Allegro

Start at: 2018-09-25 10:37:32

End at: 2018-09-25 10:38:02

Local clock offset: -7.203 ms

Remote clock offset: 0.86 ms

# Below is generated by plot.py at 2018-09-25 12:12:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.05 Mbit/s

95th percentile per-packet one-way delay: 121.556 ms

Loss rate: 2.55%

-- Flow 1:

Average throughput: 79.49 Mbit/s

95th percentile per-packet one-way delay: 121.563 ms

Loss rate: 2.39%

-- Flow 2:

Average throughput: 4.45 Mbit/s

95th percentile per-packet one-way delay: 117.465 ms

Loss rate: 3.94%

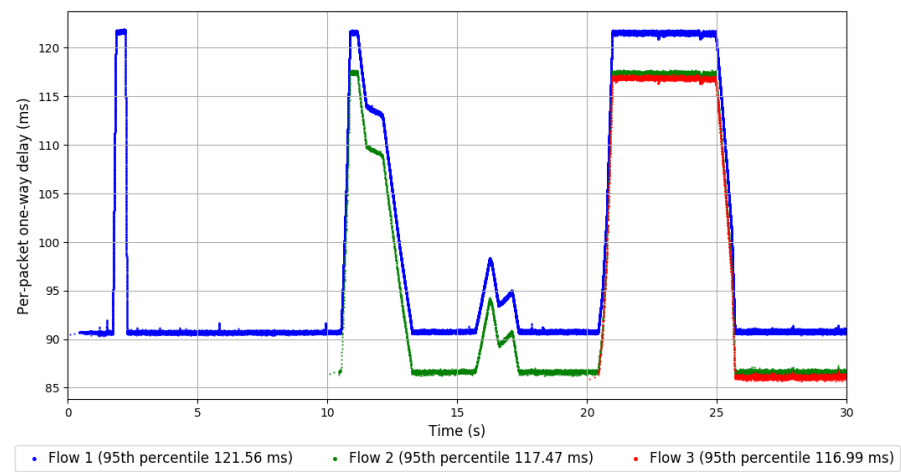
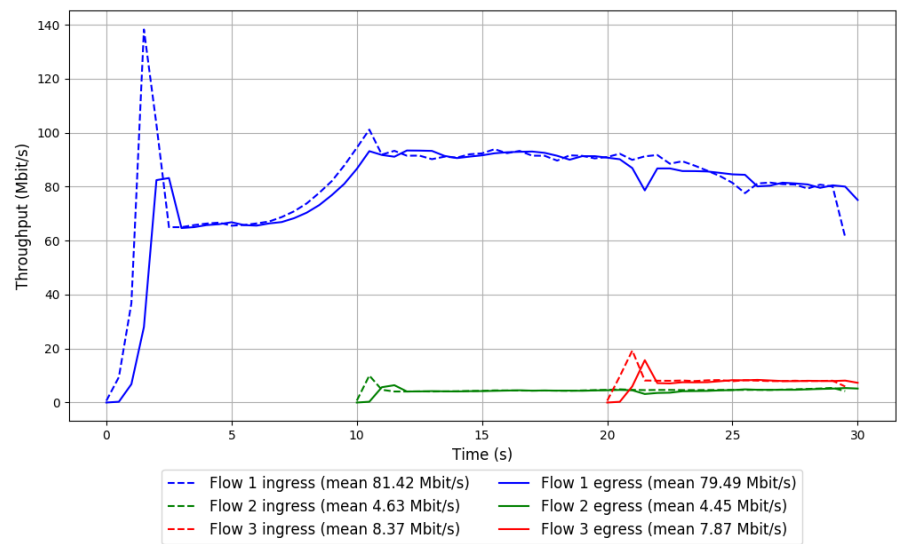
-- Flow 3:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 116.987 ms

Loss rate: 5.92%

Run 4: Report of PCC-Allegro — Data Link

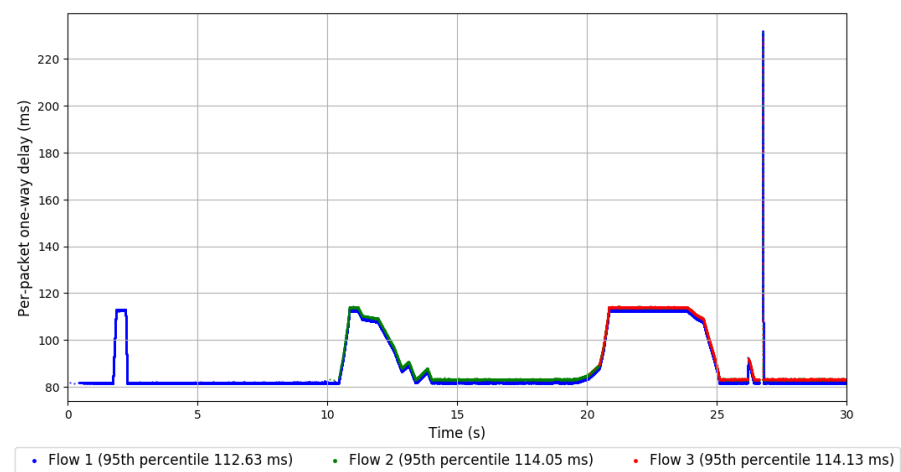
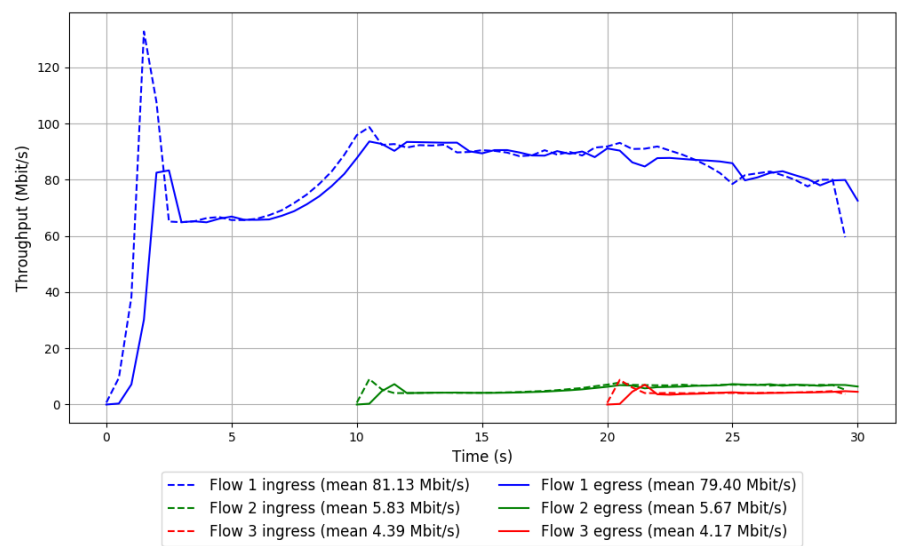


Run 5: Statistics of PCC-Allegro

Start at: 2018-09-25 11:23:34  
End at: 2018-09-25 11:24:04  
Local clock offset: -2.985 ms  
Remote clock offset: -3.305 ms

# Below is generated by plot.py at 2018-09-25 12:12:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.54 Mbit/s  
95th percentile per-packet one-way delay: 112.655 ms  
Loss rate: 2.21%  
-- Flow 1:  
Average throughput: 79.40 Mbit/s  
95th percentile per-packet one-way delay: 112.626 ms  
Loss rate: 2.14%  
-- Flow 2:  
Average throughput: 5.67 Mbit/s  
95th percentile per-packet one-way delay: 114.052 ms  
Loss rate: 2.68%  
-- Flow 3:  
Average throughput: 4.17 Mbit/s  
95th percentile per-packet one-way delay: 114.130 ms  
Loss rate: 5.06%

Run 5: Report of PCC-Allegro — Data Link

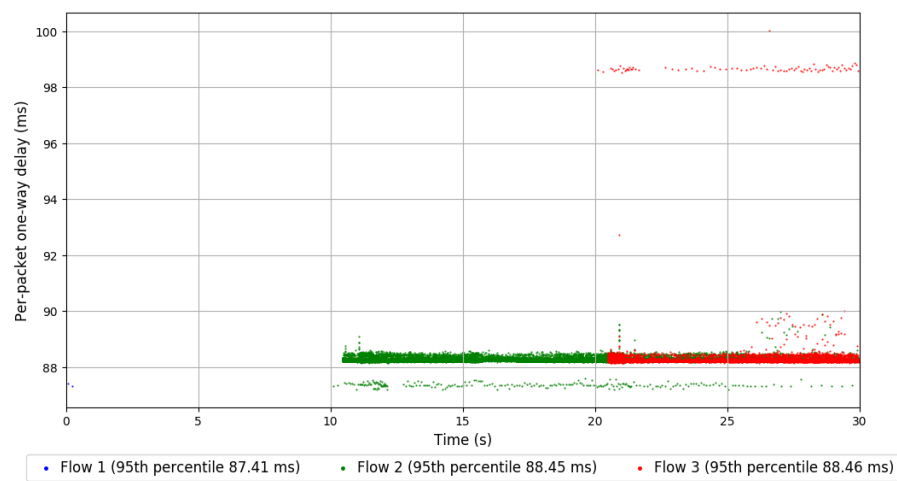
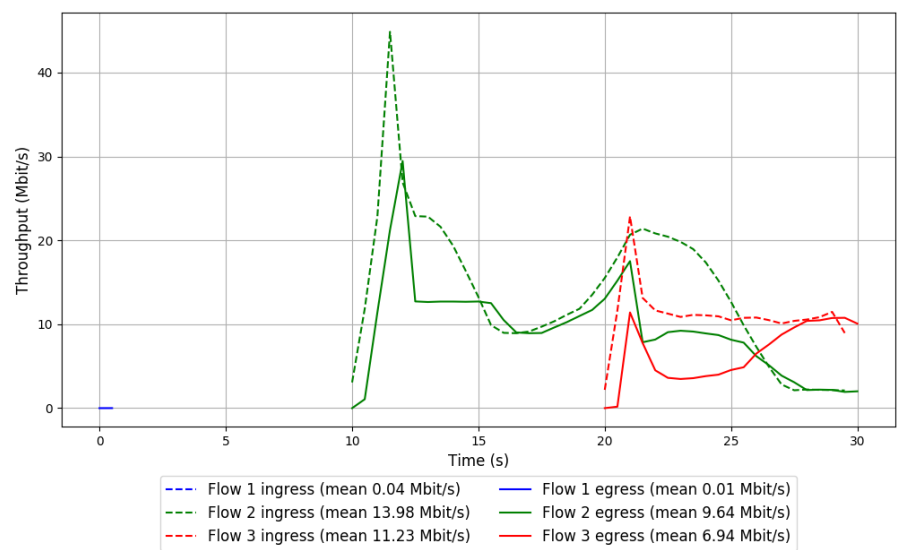


```
Run 1: Statistics of PCC-Expr

Start at: 2018-09-25 08:25:24
End at: 2018-09-25 08:25:54
Local clock offset: -4.323 ms
Remote clock offset: 2.879 ms

# Below is generated by plot.py at 2018-09-25 12:12:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.70 Mbit/s
95th percentile per-packet one-way delay: 88.450 ms
Loss rate: 33.11%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 87.410 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 9.64 Mbit/s
95th percentile per-packet one-way delay: 88.446 ms
Loss rate: 31.03%
-- Flow 3:
Average throughput: 6.94 Mbit/s
95th percentile per-packet one-way delay: 88.461 ms
Loss rate: 38.32%
```

Run 1: Report of PCC-Expr — Data Link

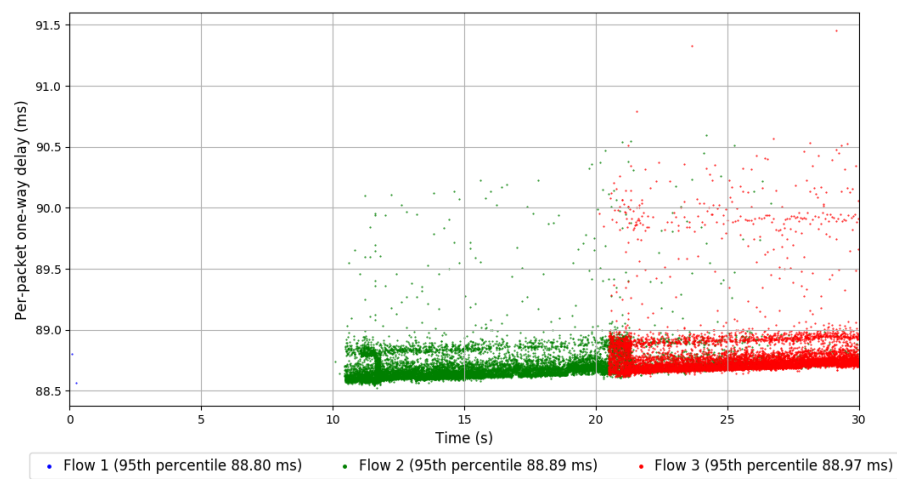
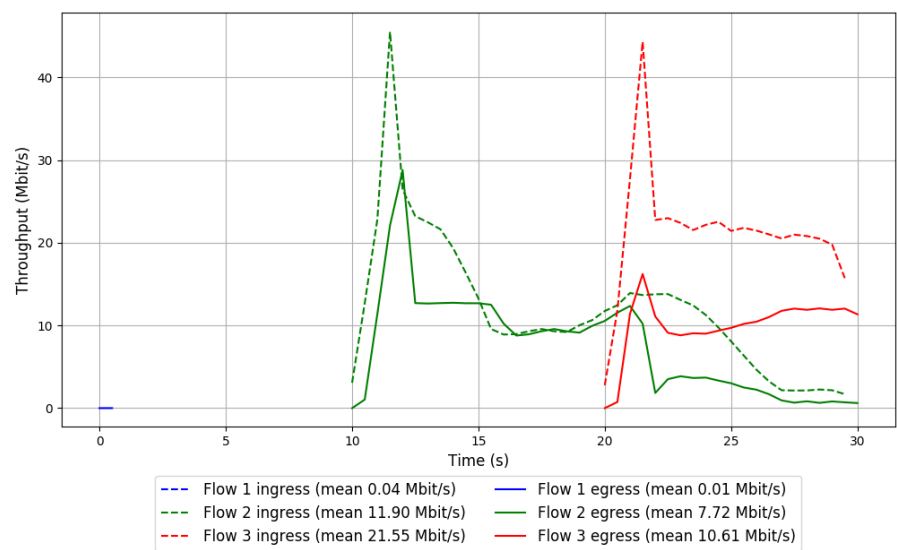


```
Run 2: Statistics of PCC-Expr

Start at: 2018-09-25 09:11:26
End at: 2018-09-25 09:11:56
Local clock offset: -8.138 ms
Remote clock offset: 2.348 ms

# Below is generated by plot.py at 2018-09-25 12:12:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.63 Mbit/s
95th percentile per-packet one-way delay: 88.931 ms
Loss rate: 42.60%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 88.800 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 7.72 Mbit/s
95th percentile per-packet one-way delay: 88.888 ms
Loss rate: 35.24%
-- Flow 3:
Average throughput: 10.61 Mbit/s
95th percentile per-packet one-way delay: 88.966 ms
Loss rate: 50.78%
```

Run 2: Report of PCC-Expr — Data Link



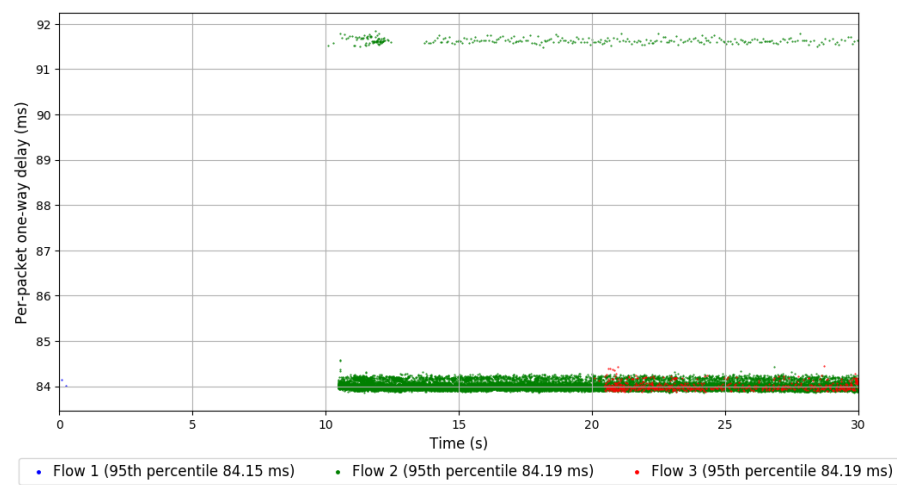
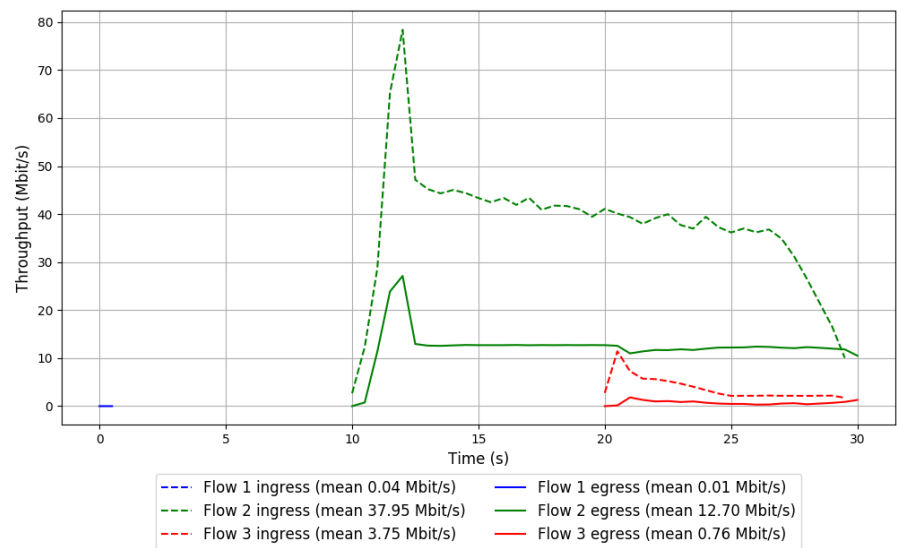


Run 3: Statistics of PCC-Expr

Start at: 2018-09-25 09:58:04  
End at: 2018-09-25 09:58:34  
Local clock offset: -7.707 ms  
Remote clock offset: -0.596 ms

# Below is generated by plot.py at 2018-09-25 12:12:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.69 Mbit/s  
95th percentile per-packet one-way delay: 84.190 ms  
Loss rate: 67.17%  
-- Flow 1:  
Average throughput: 0.01 Mbit/s  
95th percentile per-packet one-way delay: 84.147 ms  
Loss rate: 85.71%  
-- Flow 2:  
Average throughput: 12.70 Mbit/s  
95th percentile per-packet one-way delay: 84.190 ms  
Loss rate: 66.55%  
-- Flow 3:  
Average throughput: 0.76 Mbit/s  
95th percentile per-packet one-way delay: 84.187 ms  
Loss rate: 79.79%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-09-25 10:43:02

End at: 2018-09-25 10:43:32

Local clock offset: -6.567 ms

Remote clock offset: 1.702 ms

# Below is generated by plot.py at 2018-09-25 12:12:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.56 Mbit/s

95th percentile per-packet one-way delay: 88.653 ms

Loss rate: 51.32%

-- Flow 1:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 92.643 ms

Loss rate: 85.71%

-- Flow 2:

Average throughput: 10.01 Mbit/s

95th percentile per-packet one-way delay: 88.642 ms

Loss rate: 56.98%

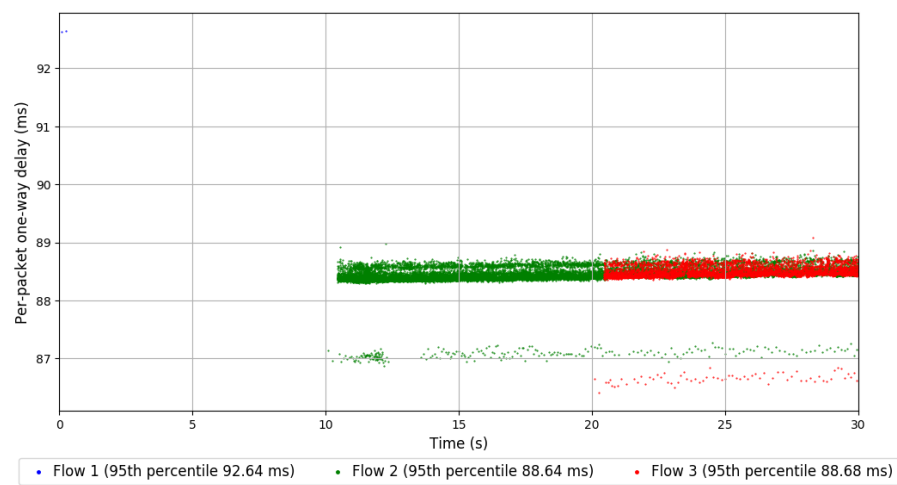
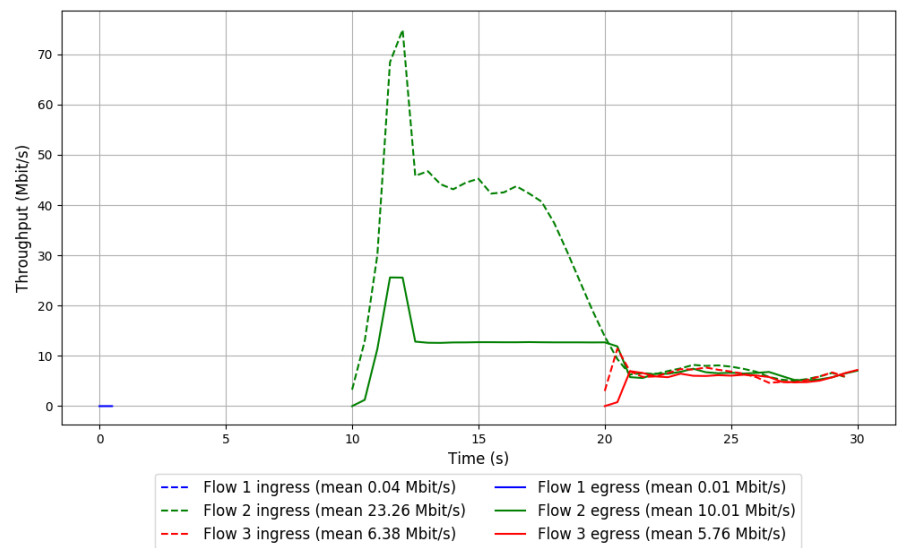
-- Flow 3:

Average throughput: 5.76 Mbit/s

95th percentile per-packet one-way delay: 88.677 ms

Loss rate: 9.80%

Run 4: Report of PCC-Expr — Data Link

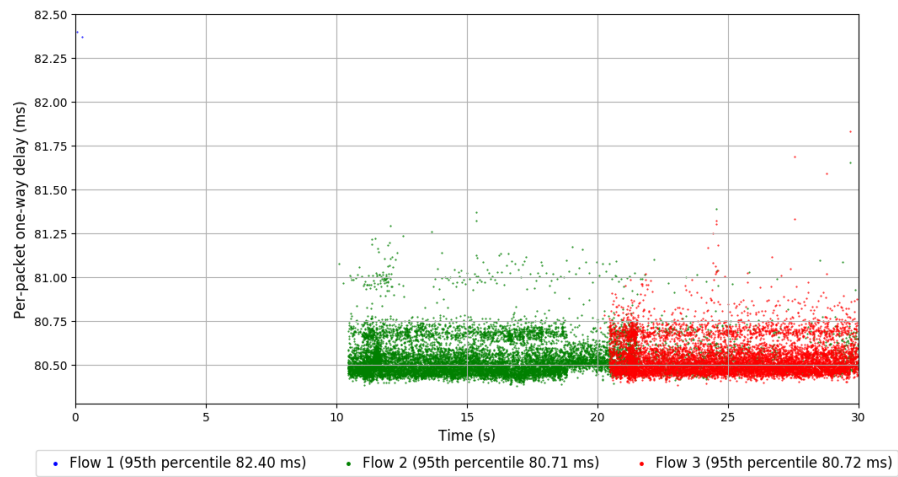
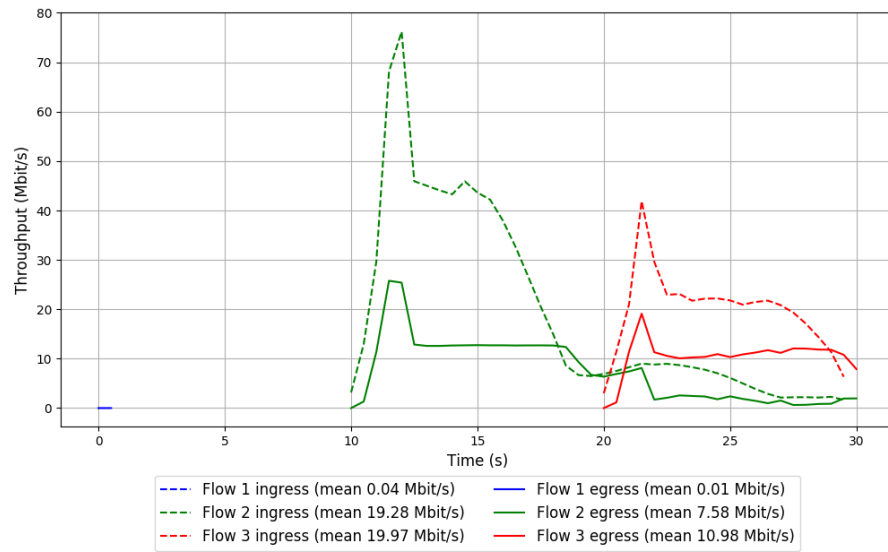


```
Run 5: Statistics of PCC-Expr

Start at: 2018-09-25 11:29:22
End at: 2018-09-25 11:29:52
Local clock offset: -2.026 ms
Remote clock offset: -3.26 ms

# Below is generated by plot.py at 2018-09-25 12:12:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.67 Mbit/s
95th percentile per-packet one-way delay: 80.716 ms
Loss rate: 55.35%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 82.398 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 7.58 Mbit/s
95th percentile per-packet one-way delay: 80.712 ms
Loss rate: 60.68%
-- Flow 3:
Average throughput: 10.98 Mbit/s
95th percentile per-packet one-way delay: 80.722 ms
Loss rate: 44.99%
```

# Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-09-25 08:56:02

End at: 2018-09-25 08:56:32

Local clock offset: -7.345 ms

Remote clock offset: 1.197 ms

# Below is generated by plot.py at 2018-09-25 12:12:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 56.27 Mbit/s

95th percentile per-packet one-way delay: 114.036 ms

Loss rate: 2.18%

-- Flow 1:

Average throughput: 28.93 Mbit/s

95th percentile per-packet one-way delay: 114.133 ms

Loss rate: 2.38%

-- Flow 2:

Average throughput: 33.10 Mbit/s

95th percentile per-packet one-way delay: 113.063 ms

Loss rate: 2.33%

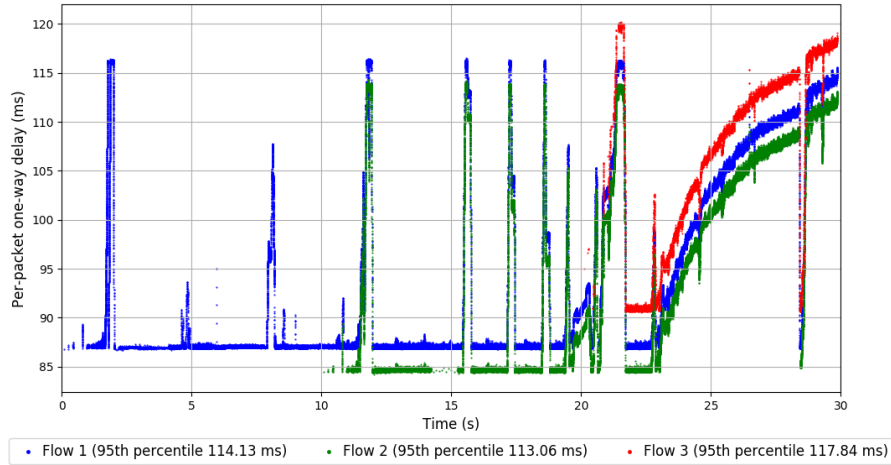
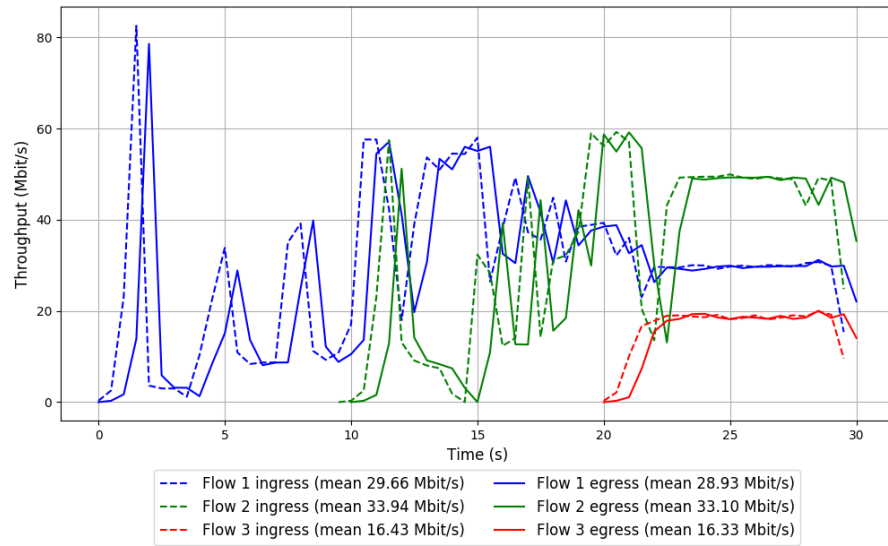
-- Flow 3:

Average throughput: 16.33 Mbit/s

95th percentile per-packet one-way delay: 117.843 ms

Loss rate: 0.47%

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



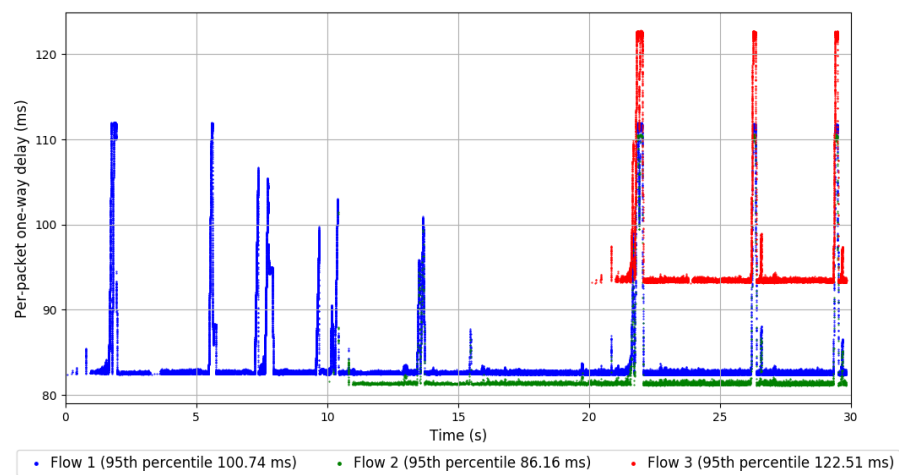
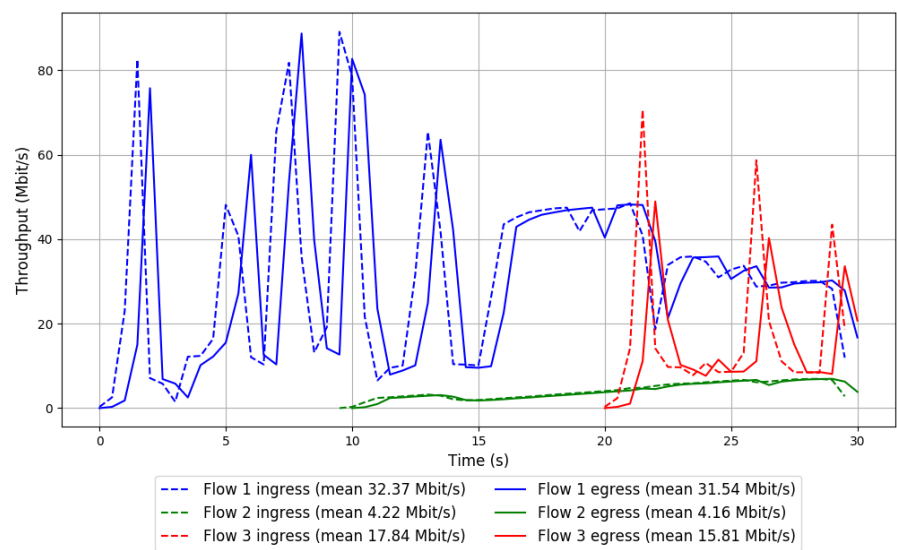


Run 2: Statistics of QUIC Cubic

Start at: 2018-09-25 09:42:57  
End at: 2018-09-25 09:43:27  
Local clock offset: -5.471 ms  
Remote clock offset: -3.227 ms

# Below is generated by plot.py at 2018-09-25 12:12:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 39.47 Mbit/s  
95th percentile per-packet one-way delay: 110.189 ms  
Loss rate: 3.76%  
-- Flow 1:  
Average throughput: 31.54 Mbit/s  
95th percentile per-packet one-way delay: 100.736 ms  
Loss rate: 2.56%  
-- Flow 2:  
Average throughput: 4.16 Mbit/s  
95th percentile per-packet one-way delay: 86.164 ms  
Loss rate: 1.45%  
-- Flow 3:  
Average throughput: 15.81 Mbit/s  
95th percentile per-packet one-way delay: 122.509 ms  
Loss rate: 11.48%

Run 2: Report of QUIC Cubic — Data Link

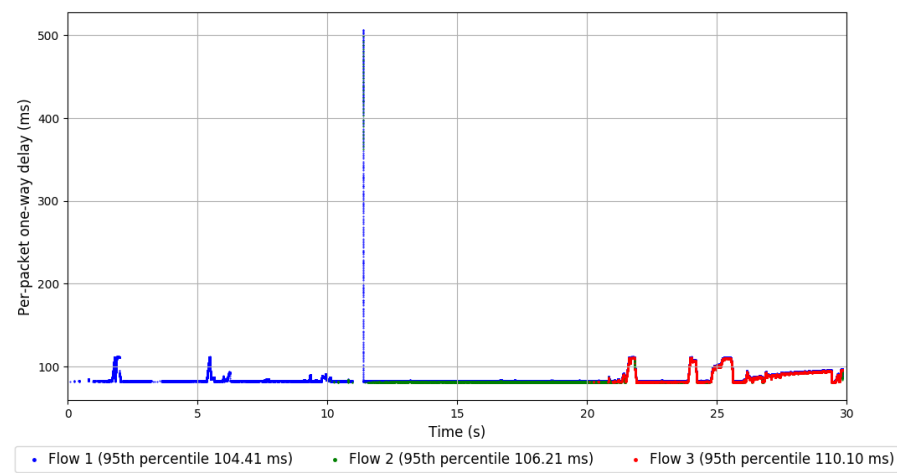
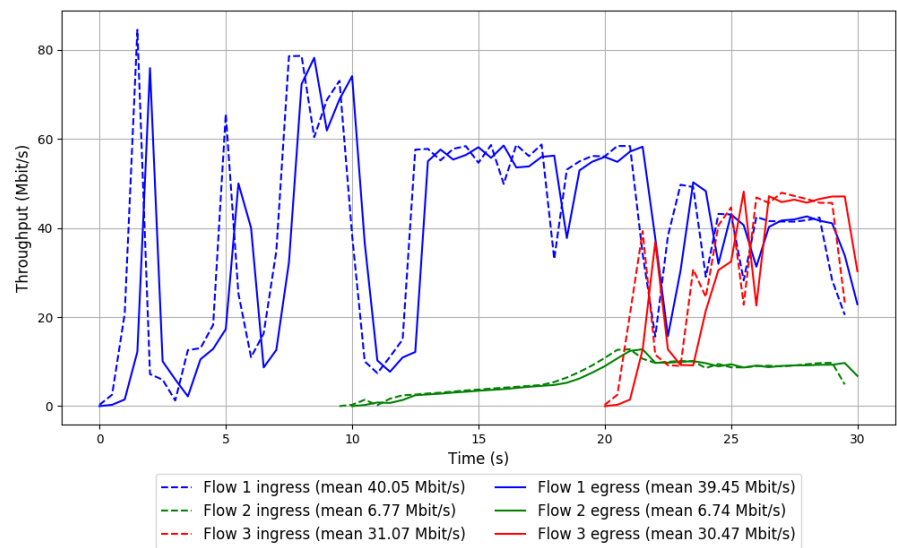


Run 3: Statistics of QUIC Cubic

Start at: 2018-09-25 10:29:01  
End at: 2018-09-25 10:29:31  
Local clock offset: -7.093 ms  
Remote clock offset: -4.396 ms

# Below is generated by plot.py at 2018-09-25 12:12:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 53.90 Mbit/s  
95th percentile per-packet one-way delay: 107.775 ms  
Loss rate: 1.46%  
-- Flow 1:  
Average throughput: 39.45 Mbit/s  
95th percentile per-packet one-way delay: 104.413 ms  
Loss rate: 1.49%  
-- Flow 2:  
Average throughput: 6.74 Mbit/s  
95th percentile per-packet one-way delay: 106.209 ms  
Loss rate: 0.44%  
-- Flow 3:  
Average throughput: 30.47 Mbit/s  
95th percentile per-packet one-way delay: 110.098 ms  
Loss rate: 1.79%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-09-25 11:14:21

End at: 2018-09-25 11:14:51

Local clock offset: -2.277 ms

Remote clock offset: 0.758 ms

# Below is generated by plot.py at 2018-09-25 12:12:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 66.24 Mbit/s

95th percentile per-packet one-way delay: 112.195 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 43.76 Mbit/s

95th percentile per-packet one-way delay: 110.317 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 29.67 Mbit/s

95th percentile per-packet one-way delay: 116.717 ms

Loss rate: 0.37%

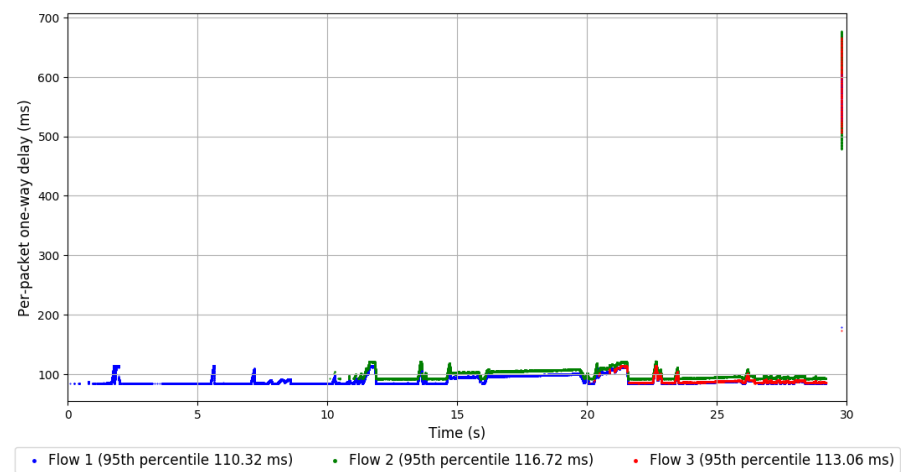
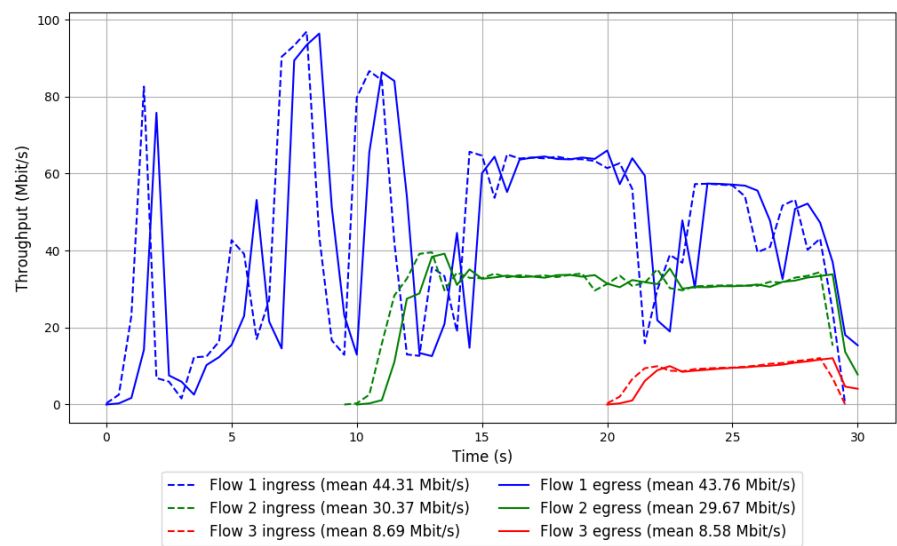
-- Flow 3:

Average throughput: 8.58 Mbit/s

95th percentile per-packet one-way delay: 113.059 ms

Loss rate: 0.27%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-09-25 12:01:58

End at: 2018-09-25 12:02:28

Local clock offset: -3.925 ms

Remote clock offset: 1.907 ms

# Below is generated by plot.py at 2018-09-25 12:12:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 62.87 Mbit/s

95th percentile per-packet one-way delay: 117.167 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 33.69 Mbit/s

95th percentile per-packet one-way delay: 117.278 ms

Loss rate: 1.27%

-- Flow 2:

Average throughput: 36.66 Mbit/s

95th percentile per-packet one-way delay: 117.210 ms

Loss rate: 0.83%

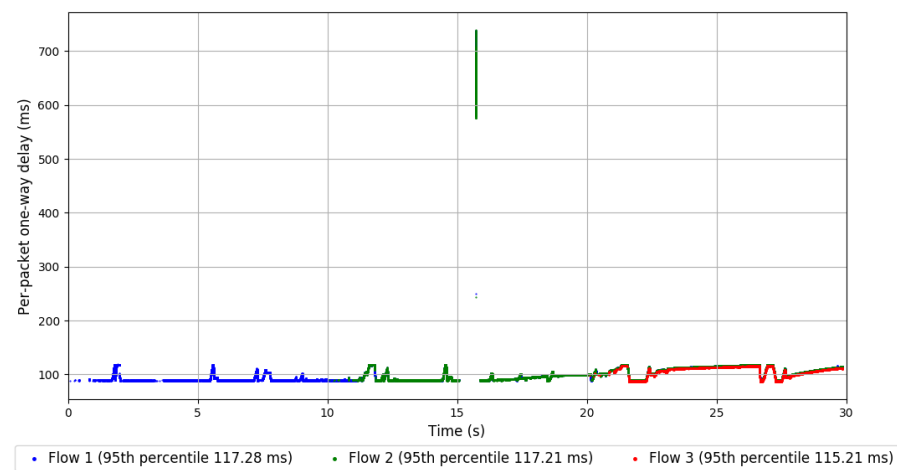
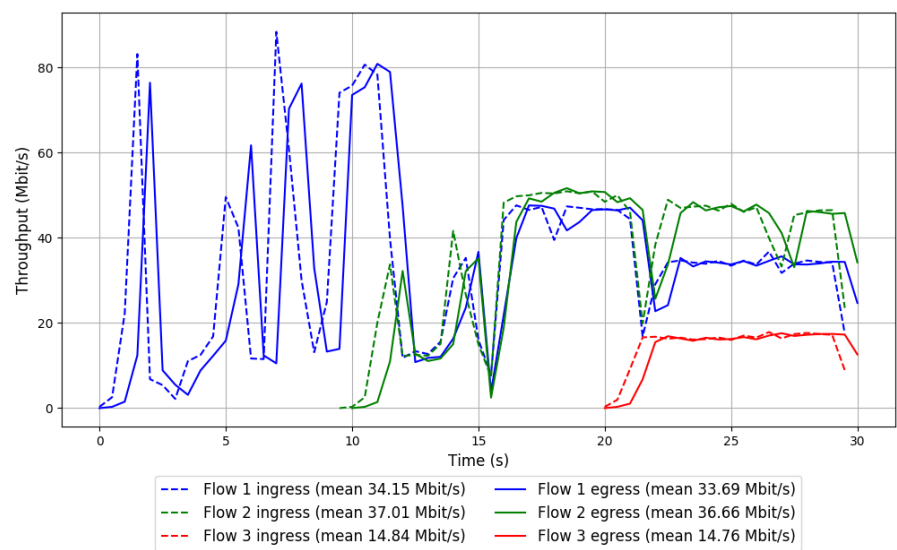
-- Flow 3:

Average throughput: 14.76 Mbit/s

95th percentile per-packet one-way delay: 115.208 ms

Loss rate: 0.38%

Run 5: Report of QUIC Cubic — Data Link



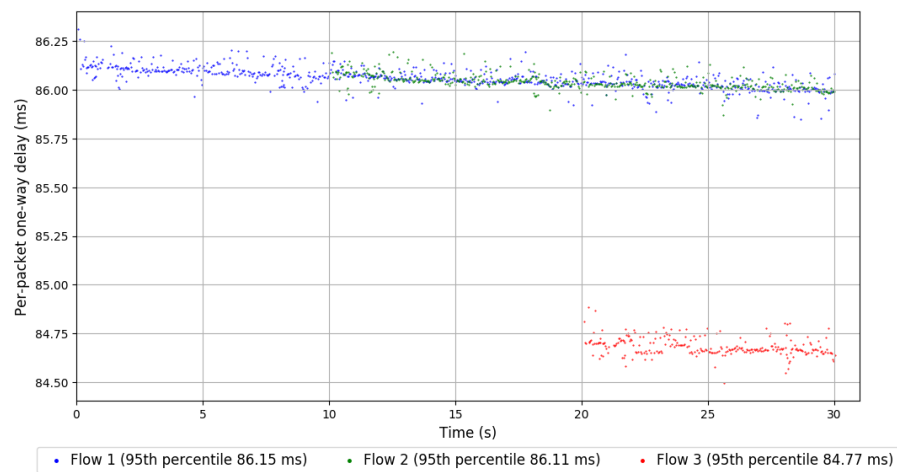
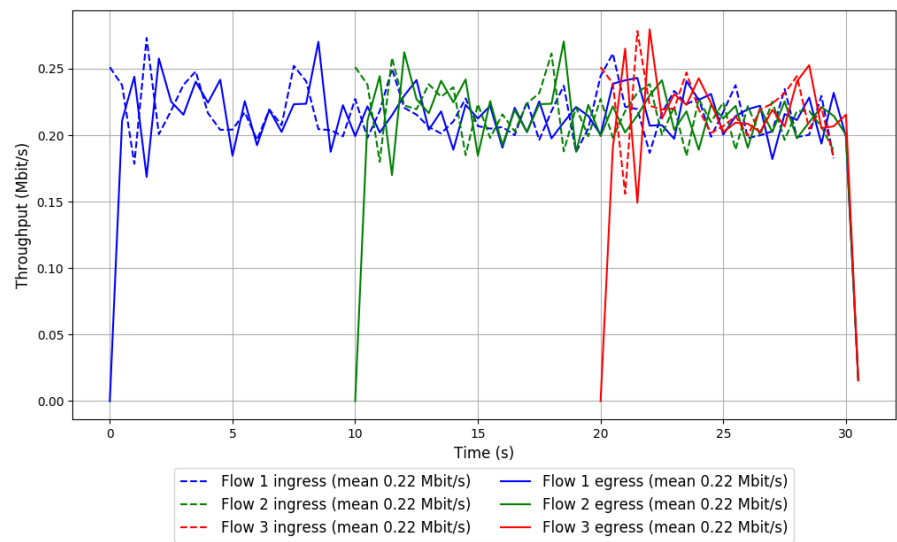


```
Run 1: Statistics of SReAM

Start at: 2018-09-25 08:42:27
End at: 2018-09-25 08:42:57
Local clock offset: -4.966 ms
Remote clock offset: 1.304 ms

# Below is generated by plot.py at 2018-09-25 12:12:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.130 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.147 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.109 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.769 ms
Loss rate: 0.00%
```

Run 1: Report of SCSReAM — Data Link

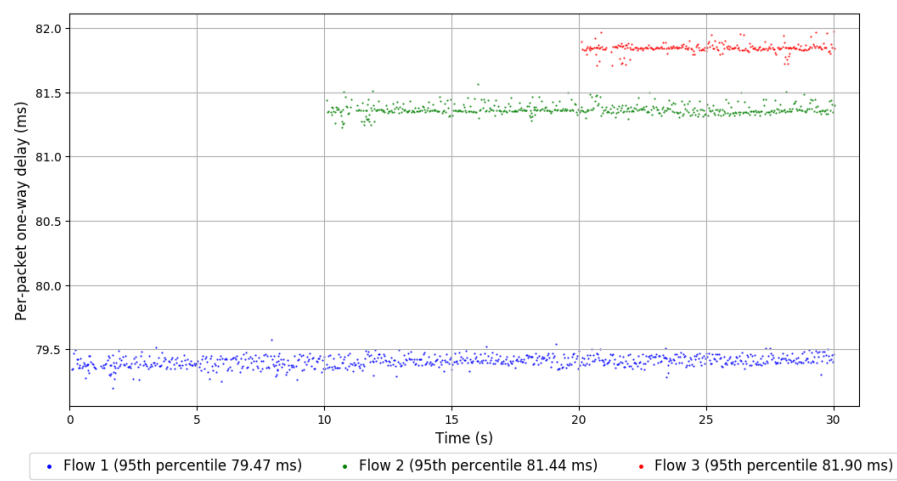
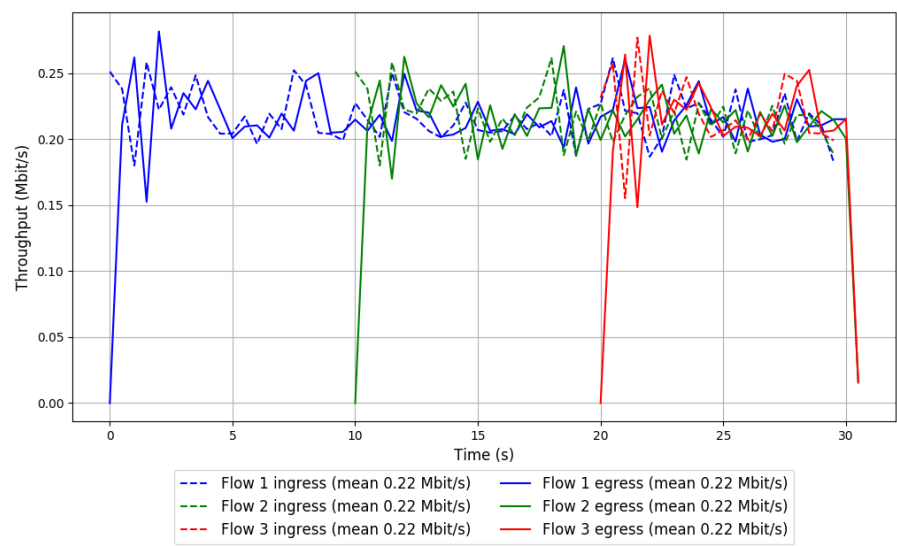


Run 2: Statistics of SReAM

Start at: 2018-09-25 09:28:24  
End at: 2018-09-25 09:28:54  
Local clock offset: -4.1 ms  
Remote clock offset: -4.226 ms

# Below is generated by plot.py at 2018-09-25 12:12:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 81.853 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 79.471 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 81.444 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 81.896 ms  
Loss rate: 0.00%

Run 2: Report of SCSReAM — Data Link

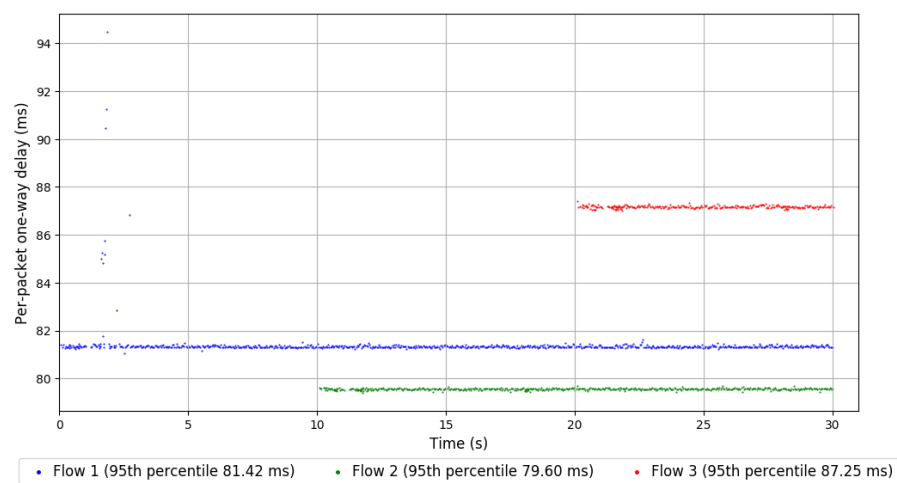
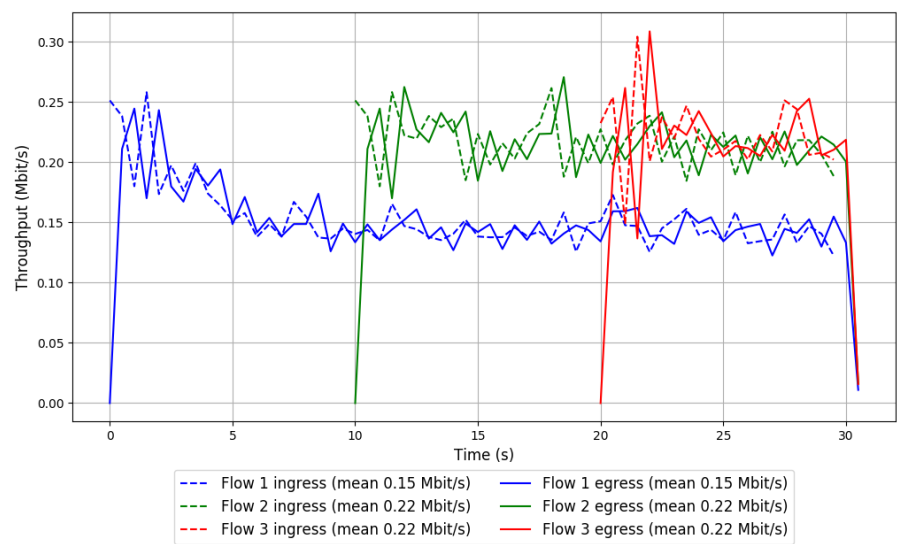


Run 3: Statistics of SReAM

Start at: 2018-09-25 10:15:09  
End at: 2018-09-25 10:15:39  
Local clock offset: -7.202 ms  
Remote clock offset: -4.478 ms

# Below is generated by plot.py at 2018-09-25 12:12:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.37 Mbit/s  
95th percentile per-packet one-way delay: 87.187 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 81.423 ms  
Loss rate: 0.39%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 79.604 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 87.253 ms  
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

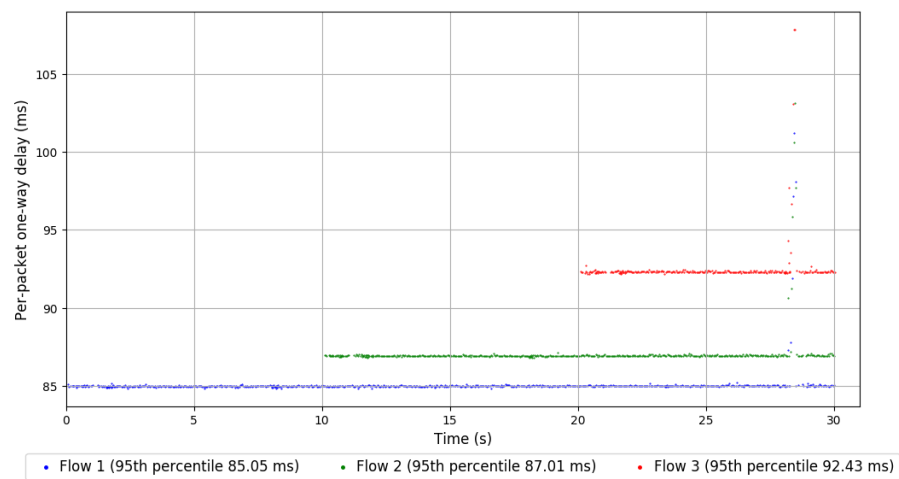
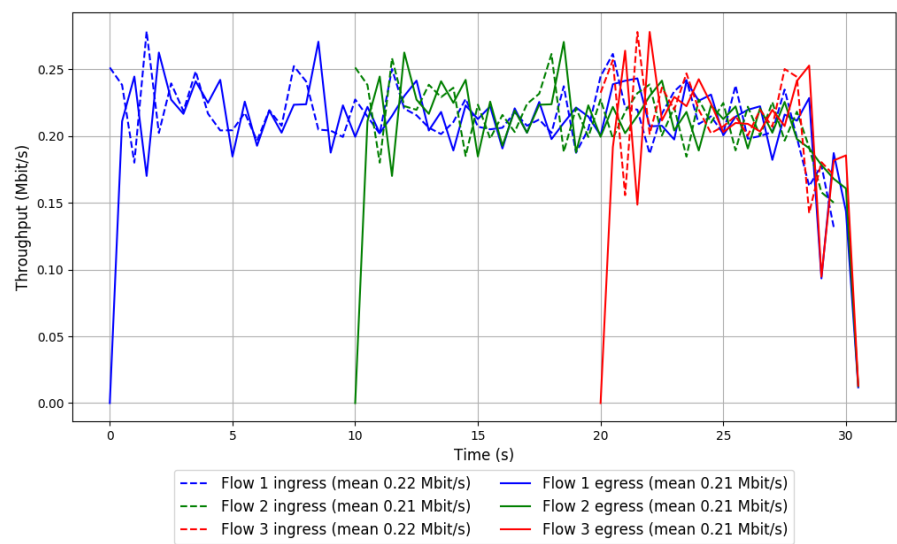


Run 4: Statistics of SReAM

Start at: 2018-09-25 11:00:39  
End at: 2018-09-25 11:01:09  
Local clock offset: -2.776 ms  
Remote clock offset: 0.748 ms

# Below is generated by plot.py at 2018-09-25 12:12:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 92.329 ms  
Loss rate: 0.61%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 85.050 ms  
Loss rate: 0.50%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 87.011 ms  
Loss rate: 0.45%  
-- Flow 3:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 92.426 ms  
Loss rate: 1.24%

Run 4: Report of SReAM — Data Link



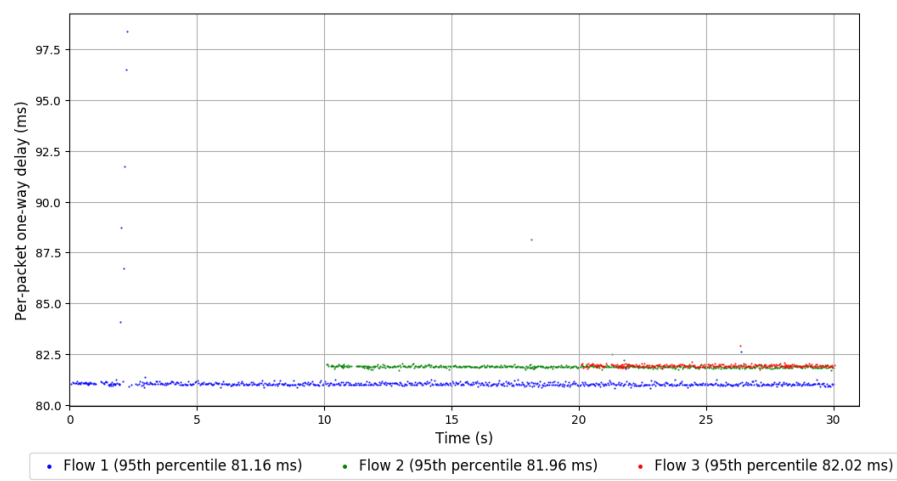
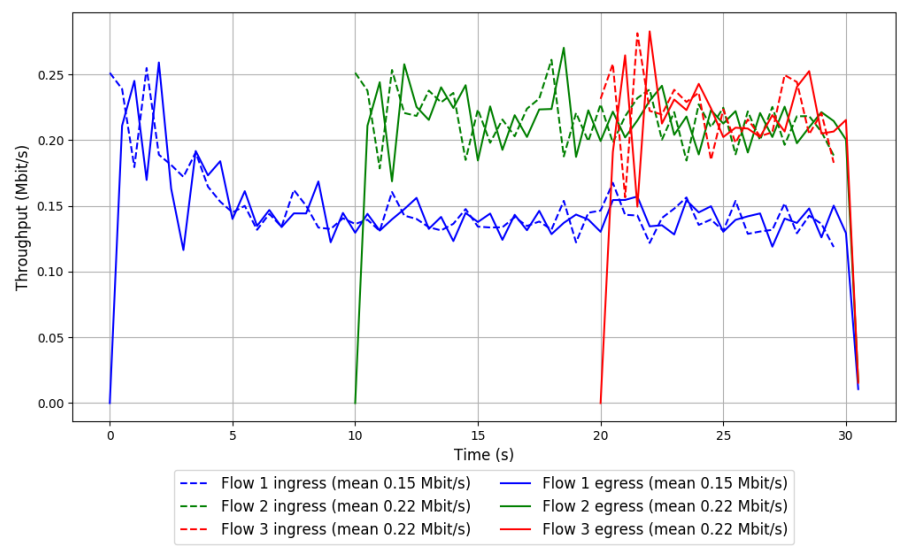


Run 5: Statistics of SReAM

Start at: 2018-09-25 11:48:08  
End at: 2018-09-25 11:48:38  
Local clock offset: -3.527 ms  
Remote clock offset: -4.347 ms

# Below is generated by plot.py at 2018-09-25 12:12:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.37 Mbit/s  
95th percentile per-packet one-way delay: 81.977 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 81.156 ms  
Loss rate: 0.93%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 81.960 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 82.022 ms  
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

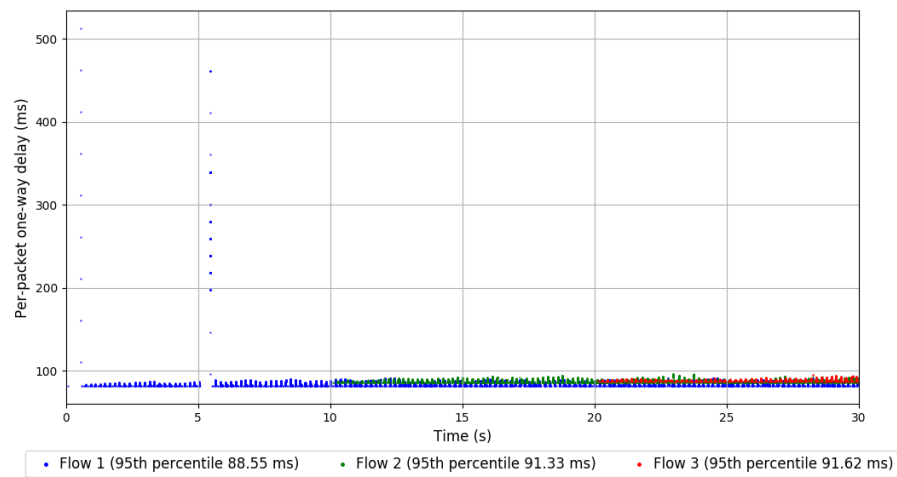
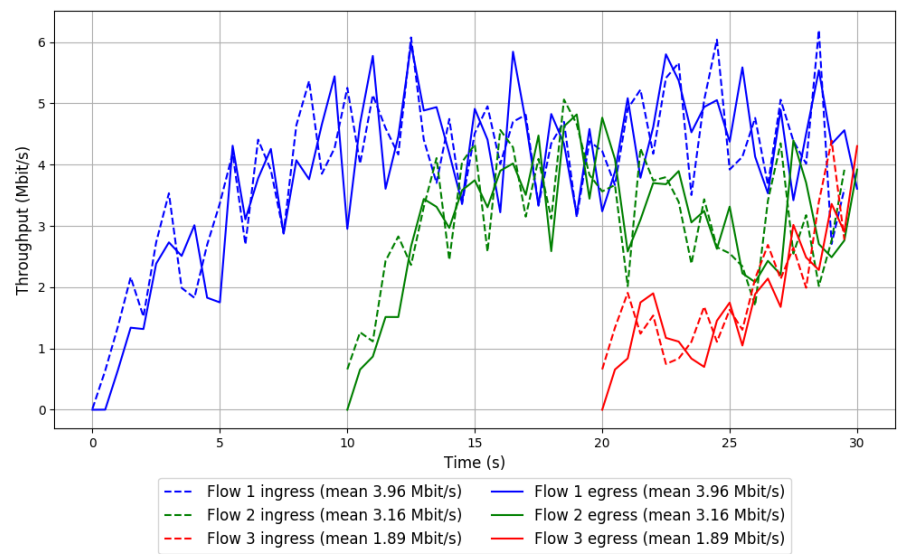


Run 1: Statistics of Sprout

Start at: 2018-09-25 08:45:21  
End at: 2018-09-25 08:45:51  
Local clock offset: -6.45 ms  
Remote clock offset: -3.883 ms

# Below is generated by plot.py at 2018-09-25 12:12:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 6.68 Mbit/s  
95th percentile per-packet one-way delay: 90.537 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 3.96 Mbit/s  
95th percentile per-packet one-way delay: 88.550 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 3.16 Mbit/s  
95th percentile per-packet one-way delay: 91.335 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 1.89 Mbit/s  
95th percentile per-packet one-way delay: 91.620 ms  
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

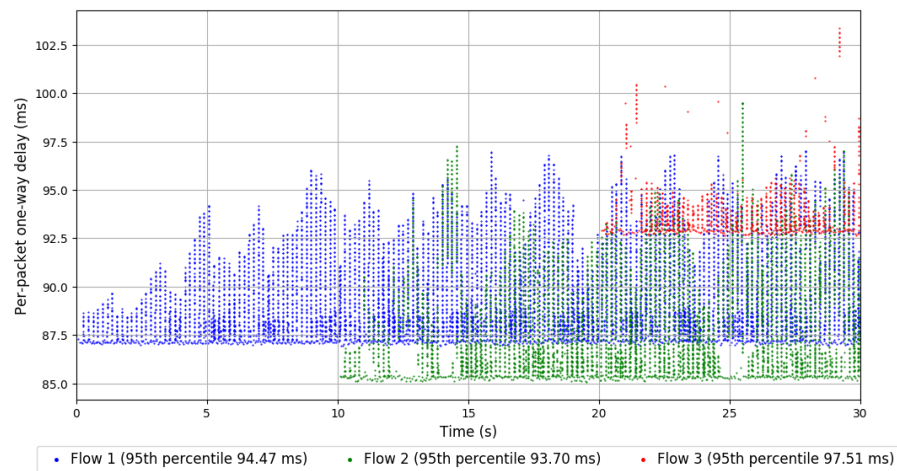
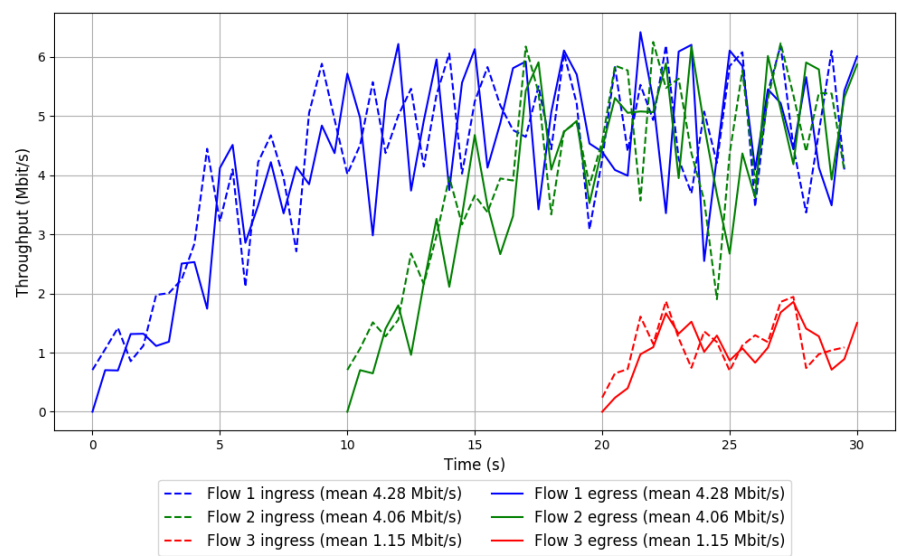


Run 2: Statistics of Sprout

Start at: 2018-09-25 09:31:21  
End at: 2018-09-25 09:31:51  
Local clock offset: -4.736 ms  
Remote clock offset: 0.937 ms

# Below is generated by plot.py at 2018-09-25 12:12:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 7.36 Mbit/s  
95th percentile per-packet one-way delay: 94.566 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 4.28 Mbit/s  
95th percentile per-packet one-way delay: 94.473 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 4.06 Mbit/s  
95th percentile per-packet one-way delay: 93.698 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 1.15 Mbit/s  
95th percentile per-packet one-way delay: 97.514 ms  
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

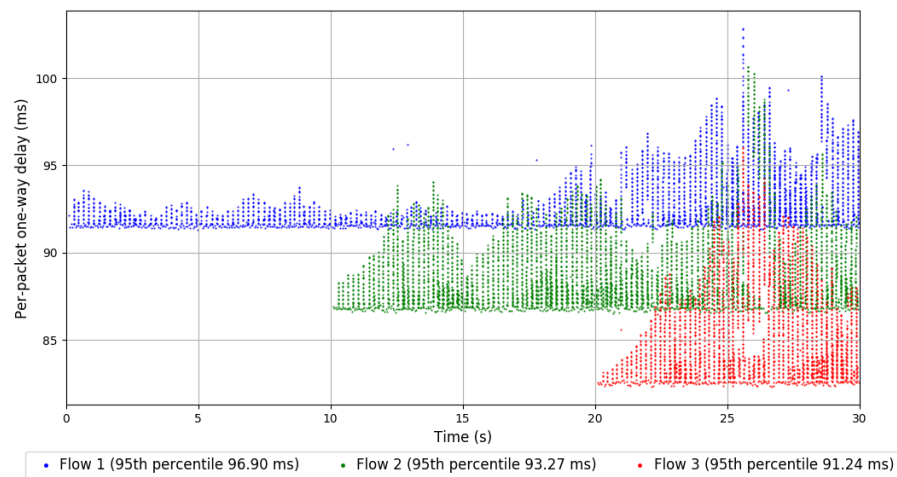
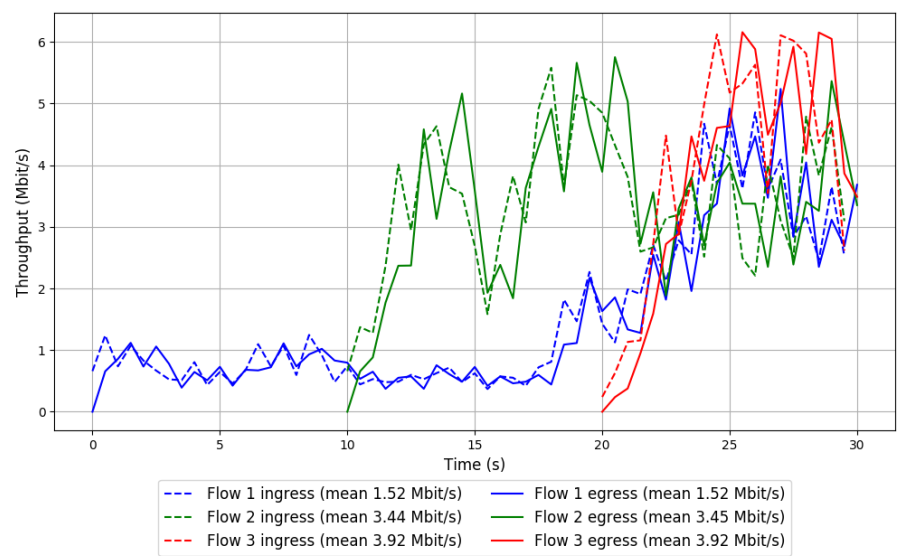


### Run 3: Statistics of Sprout

Start at: 2018-09-25 10:18:12  
End at: 2018-09-25 10:18:42  
Local clock offset: -7.192 ms  
Remote clock offset: -3.189 ms

```
# Below is generated by plot.py at 2018-09-25 12:12:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.11 Mbit/s
95th percentile per-packet one-way delay: 95.409 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.52 Mbit/s
95th percentile per-packet one-way delay: 96.896 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.45 Mbit/s
95th percentile per-packet one-way delay: 93.268 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.92 Mbit/s
95th percentile per-packet one-way delay: 91.241 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link



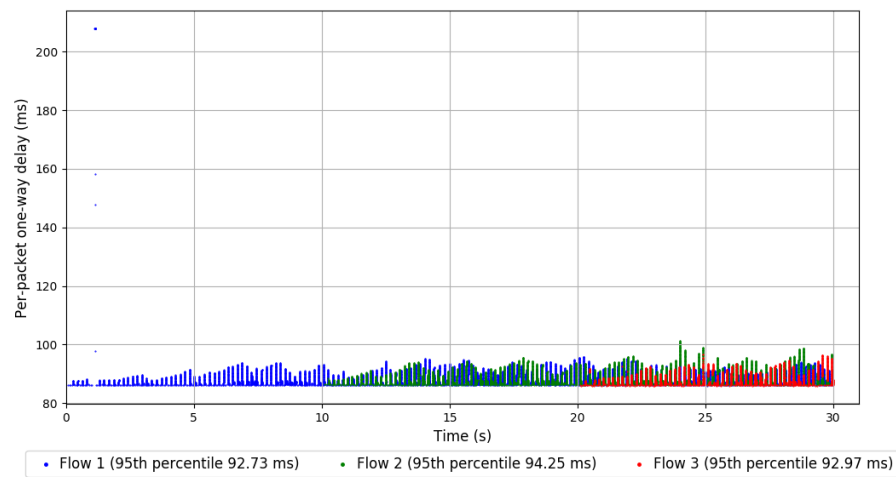
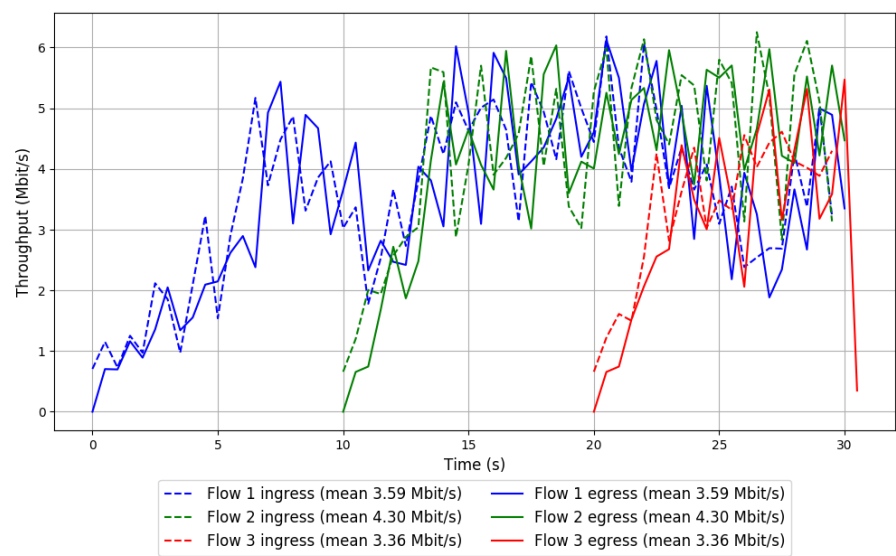


#### Run 4: Statistics of Sprout

Start at: 2018-09-25 11:03:18  
End at: 2018-09-25 11:03:48  
Local clock offset: -2.581 ms  
Remote clock offset: 0.742 ms

```
# Below is generated by plot.py at 2018-09-25 12:12:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.55 Mbit/s
95th percentile per-packet one-way delay: 93.348 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 3.59 Mbit/s
95th percentile per-packet one-way delay: 92.734 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.30 Mbit/s
95th percentile per-packet one-way delay: 94.248 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 3.36 Mbit/s
95th percentile per-packet one-way delay: 92.966 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

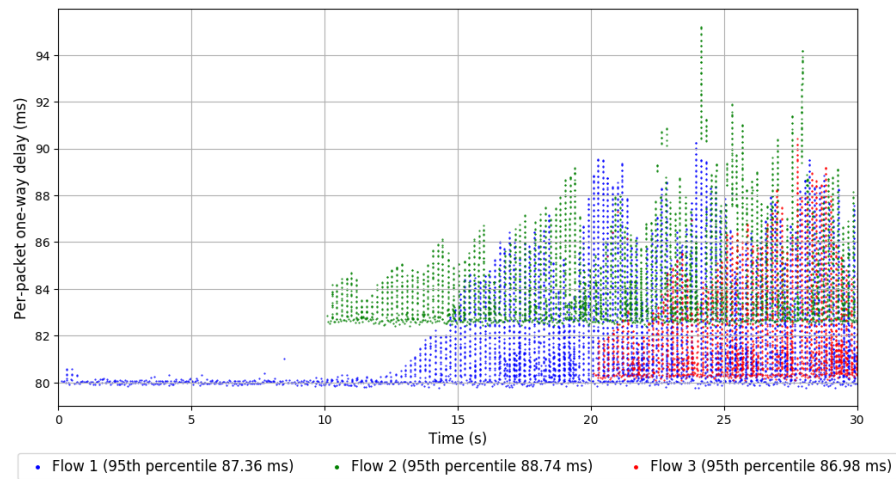
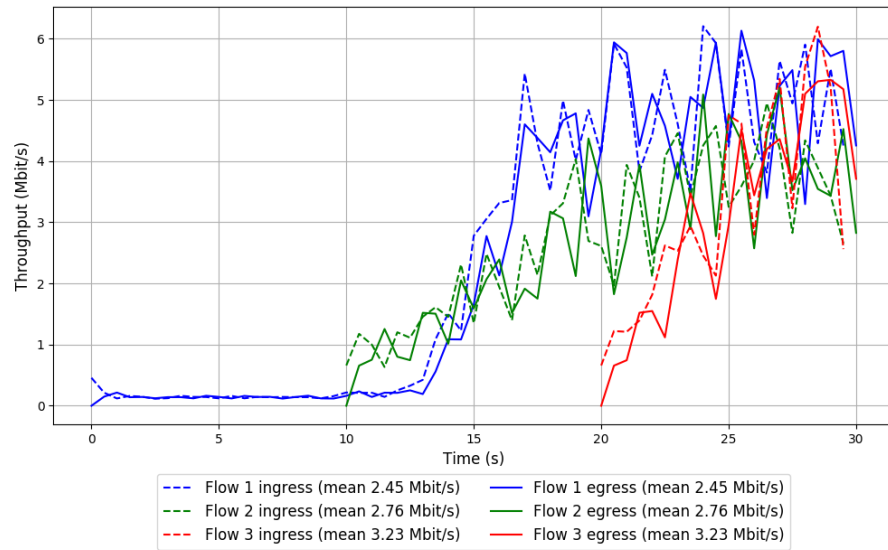


Run 5: Statistics of Sprout

Start at: 2018-09-25 11:51:11  
End at: 2018-09-25 11:51:41  
Local clock offset: -3.686 ms  
Remote clock offset: -4.427 ms

# Below is generated by plot.py at 2018-09-25 12:12:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 5.36 Mbit/s  
95th percentile per-packet one-way delay: 87.830 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 2.45 Mbit/s  
95th percentile per-packet one-way delay: 87.358 ms  
Loss rate: 0.19%  
-- Flow 2:  
Average throughput: 2.76 Mbit/s  
95th percentile per-packet one-way delay: 88.744 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 3.23 Mbit/s  
95th percentile per-packet one-way delay: 86.979 ms  
Loss rate: 0.00%

## Run 5: Report of Sprout — Data Link

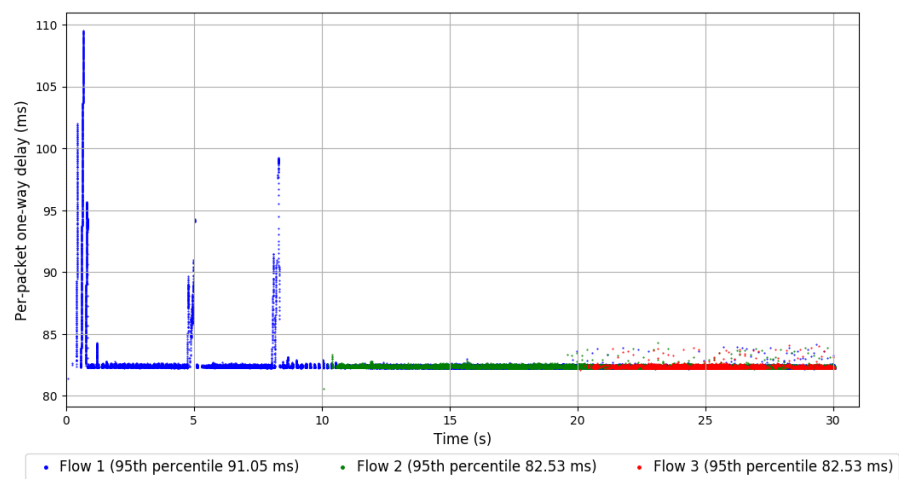
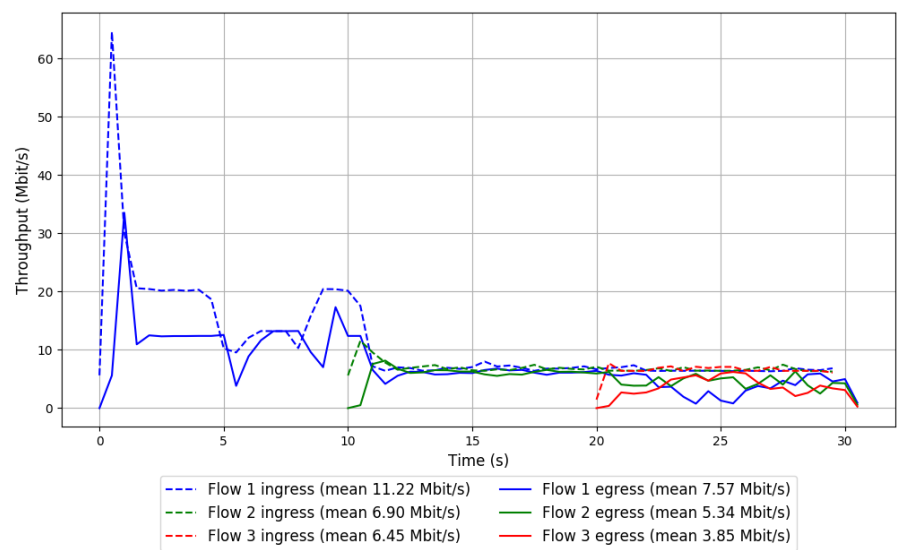


Run 1: Statistics of TaoVA-100x

Start at: 2018-09-25 08:48:02  
End at: 2018-09-25 08:48:32  
Local clock offset: -6.227 ms  
Remote clock offset: -2.656 ms

# Below is generated by plot.py at 2018-09-25 12:12:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.41 Mbit/s  
95th percentile per-packet one-way delay: 86.245 ms  
Loss rate: 30.91%  
-- Flow 1:  
Average throughput: 7.57 Mbit/s  
95th percentile per-packet one-way delay: 91.049 ms  
Loss rate: 32.51%  
-- Flow 2:  
Average throughput: 5.34 Mbit/s  
95th percentile per-packet one-way delay: 82.528 ms  
Loss rate: 22.66%  
-- Flow 3:  
Average throughput: 3.85 Mbit/s  
95th percentile per-packet one-way delay: 82.525 ms  
Loss rate: 40.23%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-09-25 09:34:16

End at: 2018-09-25 09:34:46

Local clock offset: -4.534 ms

Remote clock offset: 0.975 ms

# Below is generated by plot.py at 2018-09-25 12:13:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 12.60 Mbit/s

95th percentile per-packet one-way delay: 87.525 ms

Loss rate: 91.93%

-- Flow 1:

Average throughput: 5.49 Mbit/s

95th percentile per-packet one-way delay: 98.574 ms

Loss rate: 55.18%

-- Flow 2:

Average throughput: 7.44 Mbit/s

95th percentile per-packet one-way delay: 85.580 ms

Loss rate: 94.83%

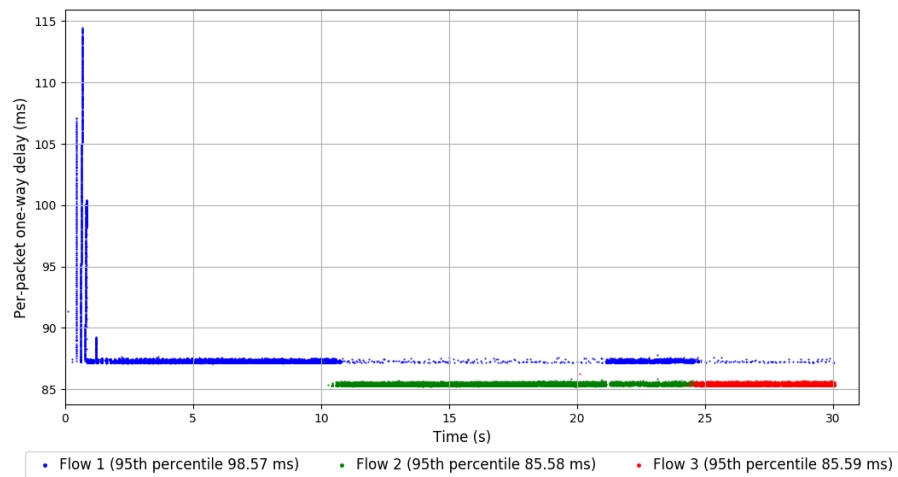
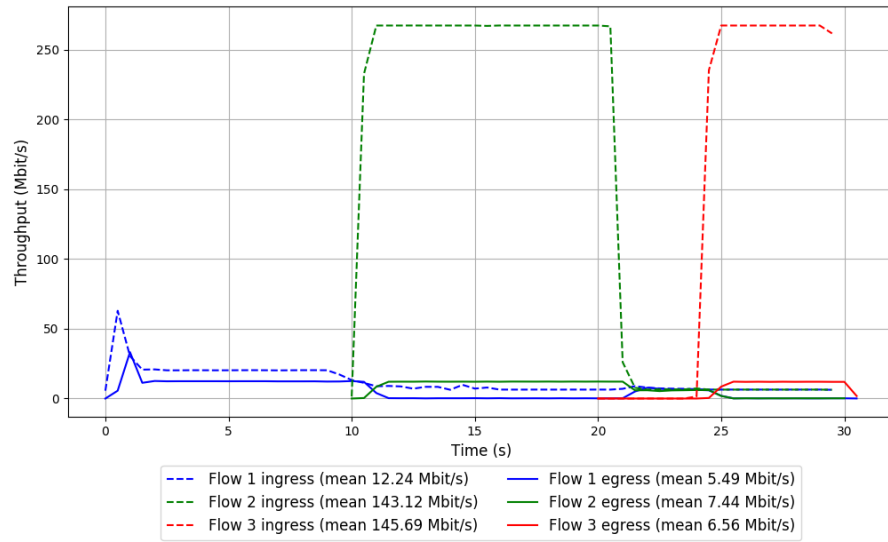
-- Flow 3:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 85.589 ms

Loss rate: 95.50%

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





Run 3: Statistics of TaoVA-100x

Start at: 2018-09-25 10:20:55

End at: 2018-09-25 10:21:25

Local clock offset: -7.866 ms

Remote clock offset: -0.34 ms

# Below is generated by plot.py at 2018-09-25 12:13:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 12.51 Mbit/s

95th percentile per-packet one-way delay: 87.417 ms

Loss rate: 89.35%

-- Flow 1:

Average throughput: 6.31 Mbit/s

95th percentile per-packet one-way delay: 94.926 ms

Loss rate: 46.96%

-- Flow 2:

Average throughput: 3.66 Mbit/s

95th percentile per-packet one-way delay: 85.727 ms

Loss rate: 88.74%

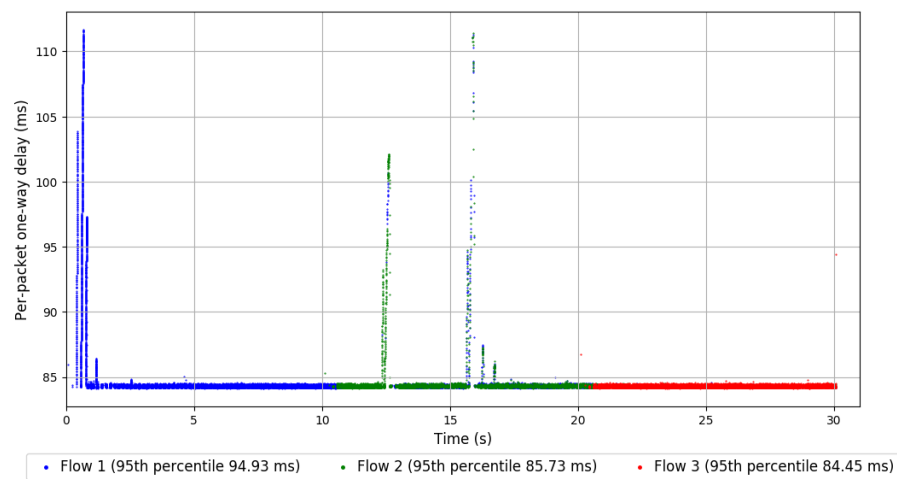
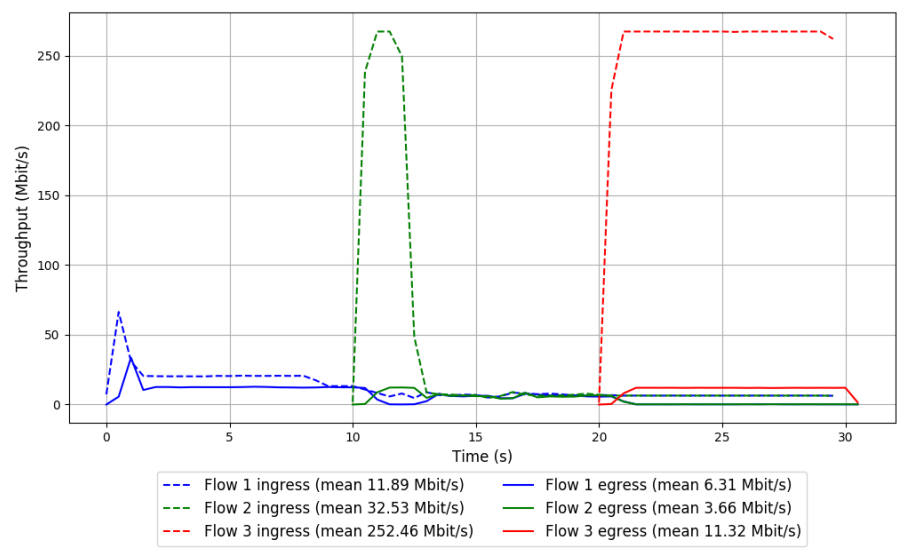
-- Flow 3:

Average throughput: 11.32 Mbit/s

95th percentile per-packet one-way delay: 84.448 ms

Loss rate: 95.52%

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

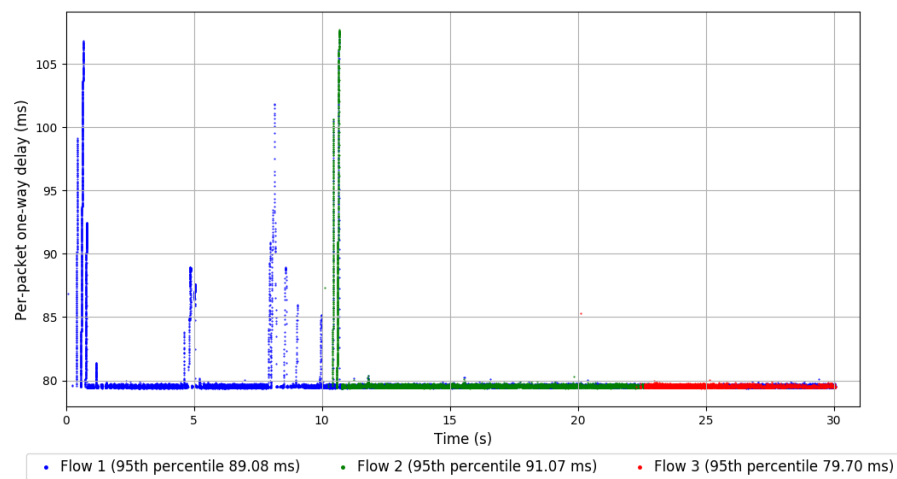
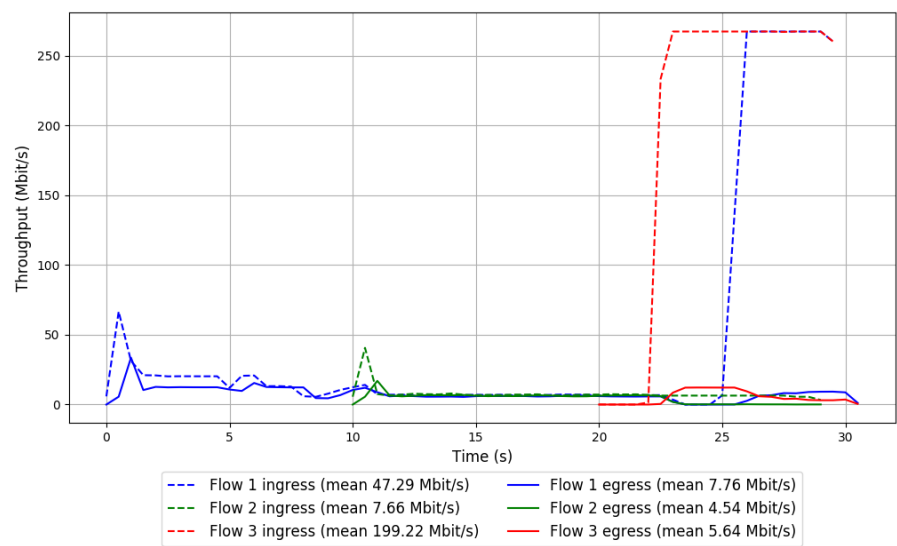


Run 4: Statistics of TaoVA-100x

Start at: 2018-09-25 11:06:02  
End at: 2018-09-25 11:06:32  
Local clock offset: -2.468 ms  
Remote clock offset: -4.366 ms

# Below is generated by plot.py at 2018-09-25 12:13:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.50 Mbit/s  
95th percentile per-packet one-way delay: 88.212 ms  
Loss rate: 89.45%  
-- Flow 1:  
Average throughput: 7.76 Mbit/s  
95th percentile per-packet one-way delay: 89.083 ms  
Loss rate: 83.59%  
-- Flow 2:  
Average throughput: 4.54 Mbit/s  
95th percentile per-packet one-way delay: 91.074 ms  
Loss rate: 41.74%  
-- Flow 3:  
Average throughput: 5.64 Mbit/s  
95th percentile per-packet one-way delay: 79.699 ms  
Loss rate: 97.17%

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

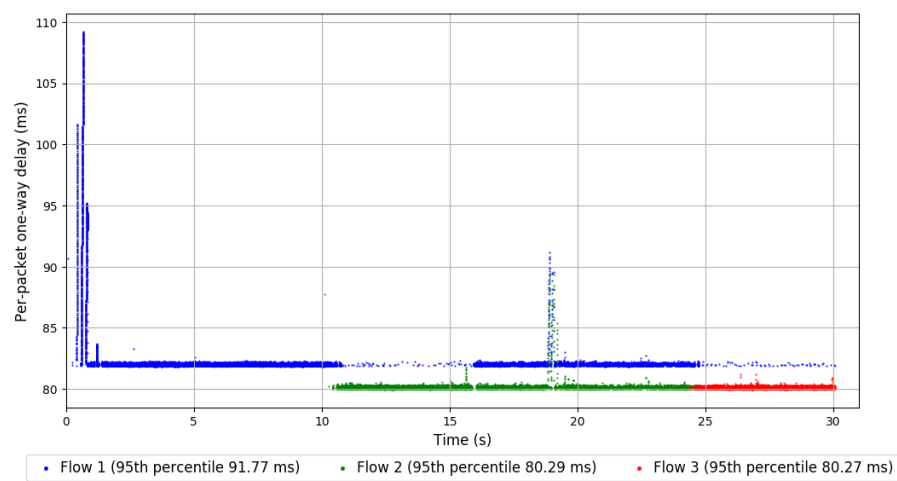
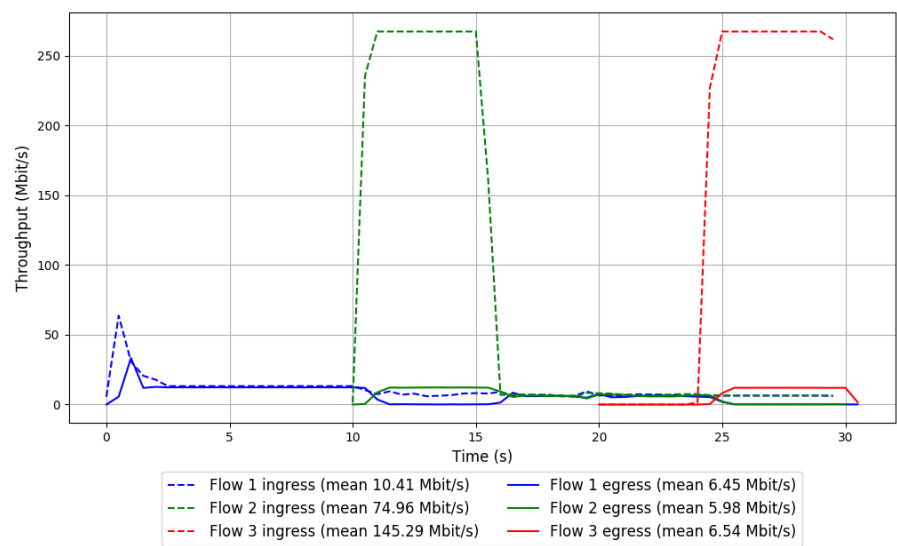


Run 5: Statistics of TaoVA-100x

Start at: 2018-09-25 11:53:51  
End at: 2018-09-25 11:54:21  
Local clock offset: -3.799 ms  
Remote clock offset: -4.322 ms

# Below is generated by plot.py at 2018-09-25 12:13:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.59 Mbit/s  
95th percentile per-packet one-way delay: 82.722 ms  
Loss rate: 88.42%  
-- Flow 1:  
Average throughput: 6.45 Mbit/s  
95th percentile per-packet one-way delay: 91.765 ms  
Loss rate: 38.07%  
-- Flow 2:  
Average throughput: 5.98 Mbit/s  
95th percentile per-packet one-way delay: 80.292 ms  
Loss rate: 92.07%  
-- Flow 3:  
Average throughput: 6.54 Mbit/s  
95th percentile per-packet one-way delay: 80.269 ms  
Loss rate: 95.50%

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

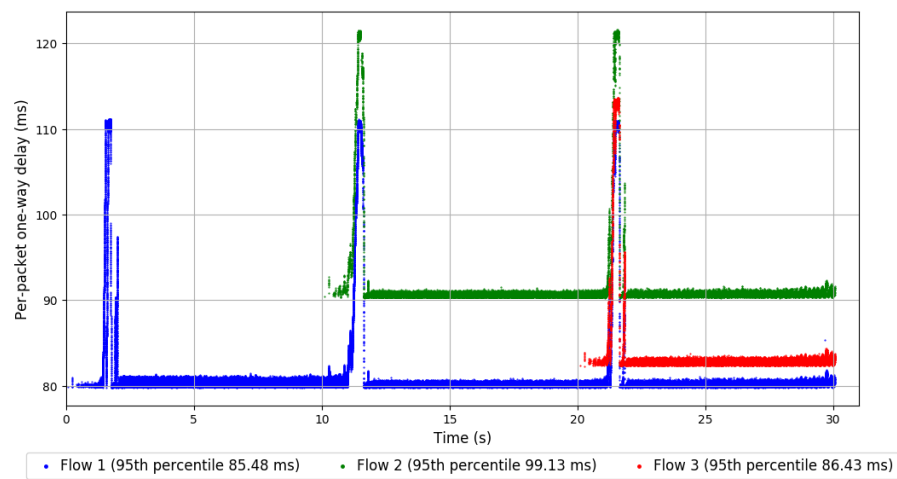
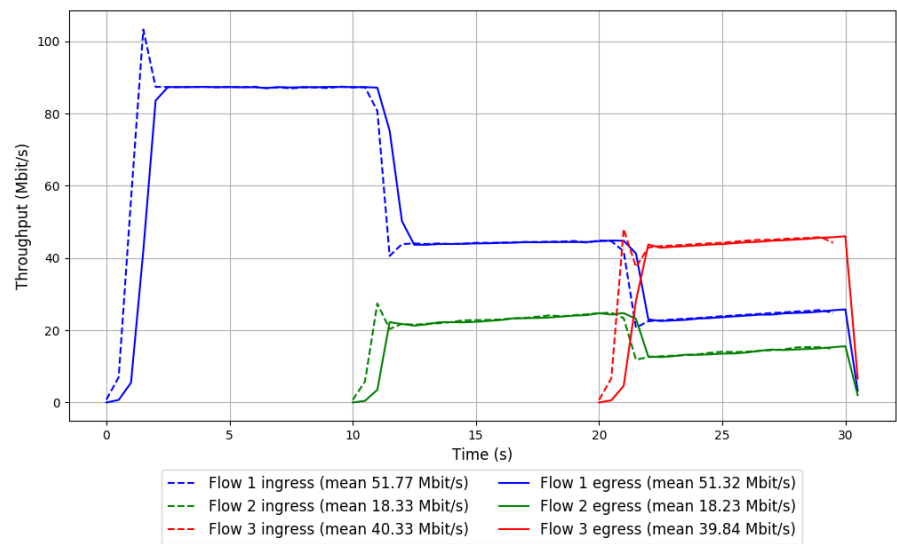


Run 1: Statistics of TCP Vegas

Start at: 2018-09-25 08:33:17  
End at: 2018-09-25 08:33:47  
Local clock offset: -3.822 ms  
Remote clock offset: -3.477 ms

# Below is generated by plot.py at 2018-09-25 12:13:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.71 Mbit/s  
95th percentile per-packet one-way delay: 91.120 ms  
Loss rate: 0.88%  
-- Flow 1:  
Average throughput: 51.32 Mbit/s  
95th percentile per-packet one-way delay: 85.477 ms  
Loss rate: 0.87%  
-- Flow 2:  
Average throughput: 18.23 Mbit/s  
95th percentile per-packet one-way delay: 99.131 ms  
Loss rate: 0.57%  
-- Flow 3:  
Average throughput: 39.84 Mbit/s  
95th percentile per-packet one-way delay: 86.429 ms  
Loss rate: 1.21%

Run 1: Report of TCP Vegas — Data Link



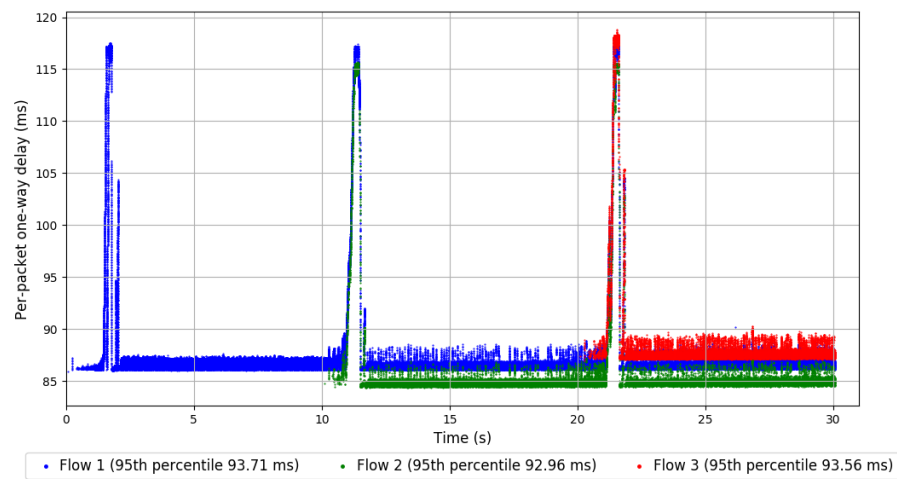
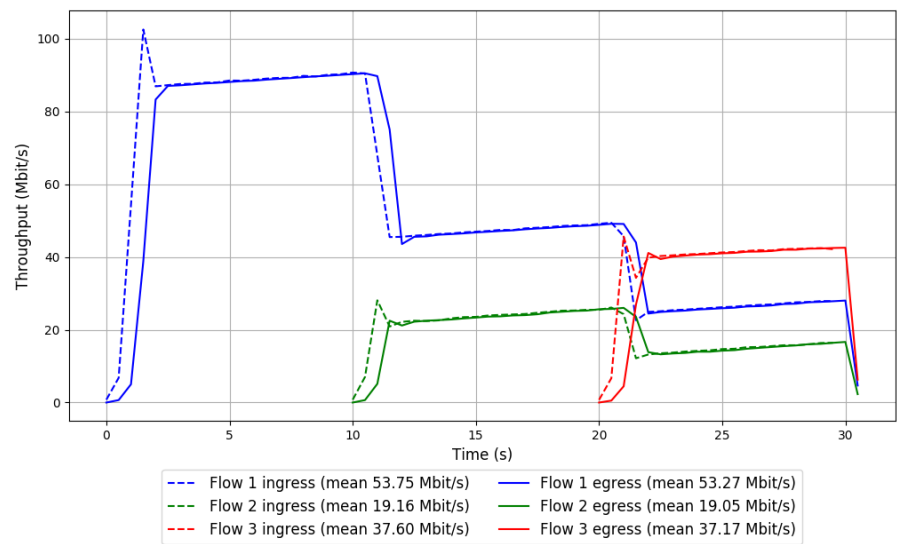


Run 2: Statistics of TCP Vegas

Start at: 2018-09-25 09:18:35  
End at: 2018-09-25 09:19:05  
Local clock offset: -6.0 ms  
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2018-09-25 12:13:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.32 Mbit/s  
95th percentile per-packet one-way delay: 93.579 ms  
Loss rate: 0.88%  
-- Flow 1:  
Average throughput: 53.27 Mbit/s  
95th percentile per-packet one-way delay: 93.710 ms  
Loss rate: 0.88%  
-- Flow 2:  
Average throughput: 19.05 Mbit/s  
95th percentile per-packet one-way delay: 92.956 ms  
Loss rate: 0.56%  
-- Flow 3:  
Average throughput: 37.17 Mbit/s  
95th percentile per-packet one-way delay: 93.555 ms  
Loss rate: 1.16%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-09-25 10:06:17

End at: 2018-09-25 10:06:47

Local clock offset: -8.129 ms

Remote clock offset: 0.665 ms

# Below is generated by plot.py at 2018-09-25 12:13:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 74.31 Mbit/s

95th percentile per-packet one-way delay: 98.145 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 48.70 Mbit/s

95th percentile per-packet one-way delay: 98.990 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 19.10 Mbit/s

95th percentile per-packet one-way delay: 100.071 ms

Loss rate: 0.45%

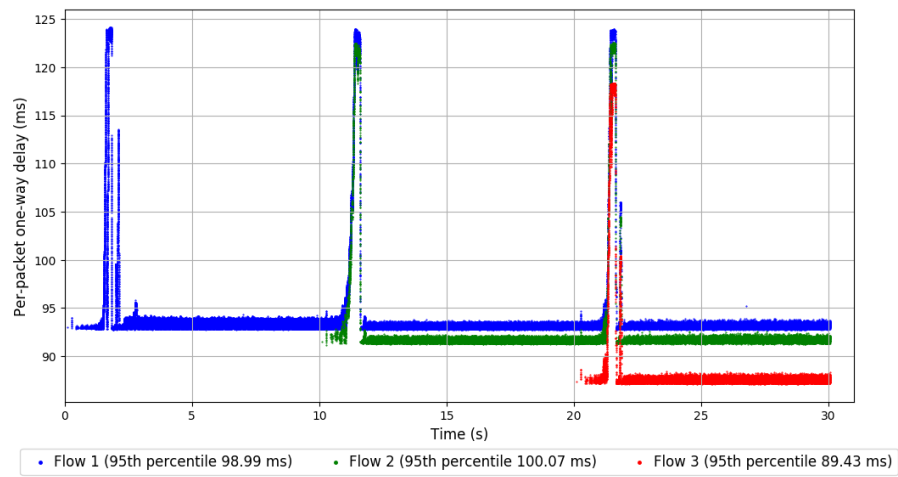
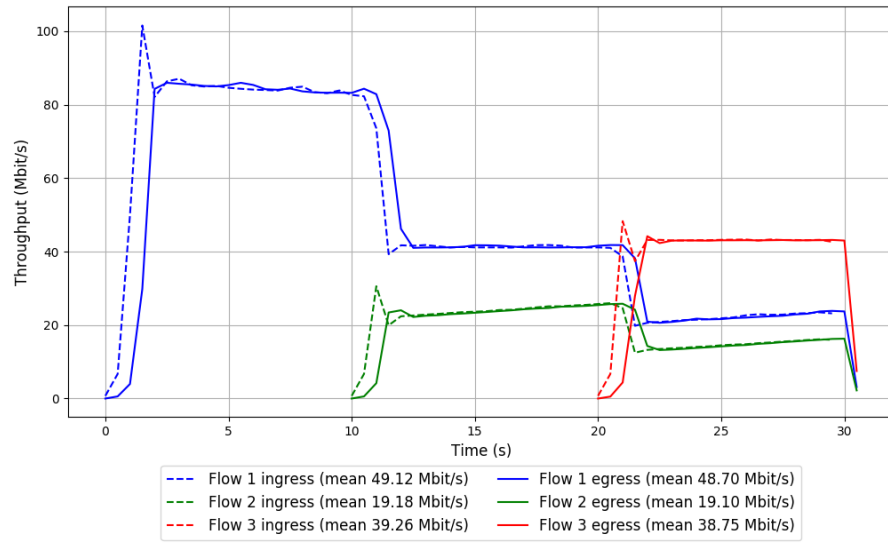
-- Flow 3:

Average throughput: 38.75 Mbit/s

95th percentile per-packet one-way delay: 89.432 ms

Loss rate: 1.30%

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



Run 4: Statistics of TCP Vegas

Start at: 2018-09-25 10:51:07

End at: 2018-09-25 10:51:37

Local clock offset: -4.587 ms

Remote clock offset: -3.41 ms

# Below is generated by plot.py at 2018-09-25 12:13:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 56.03 Mbit/s

95th percentile per-packet one-way delay: 109.156 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 3.86 Mbit/s

95th percentile per-packet one-way delay: 109.907 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 69.08 Mbit/s

95th percentile per-packet one-way delay: 108.697 ms

Loss rate: 0.75%

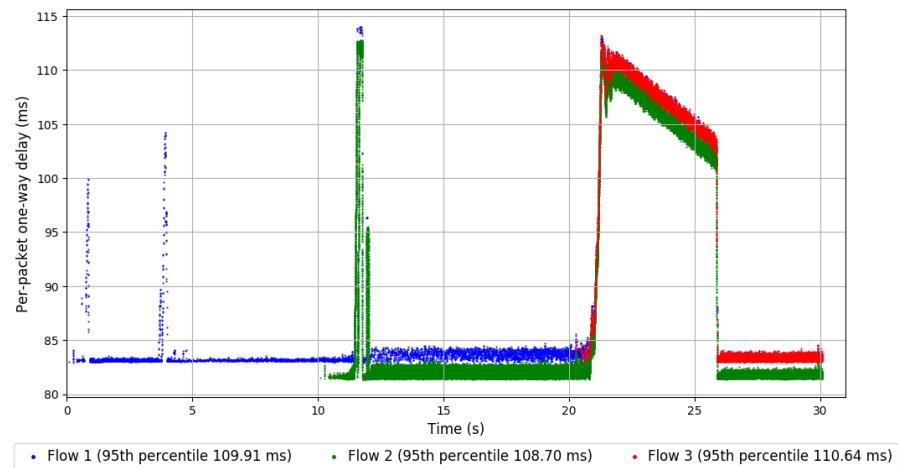
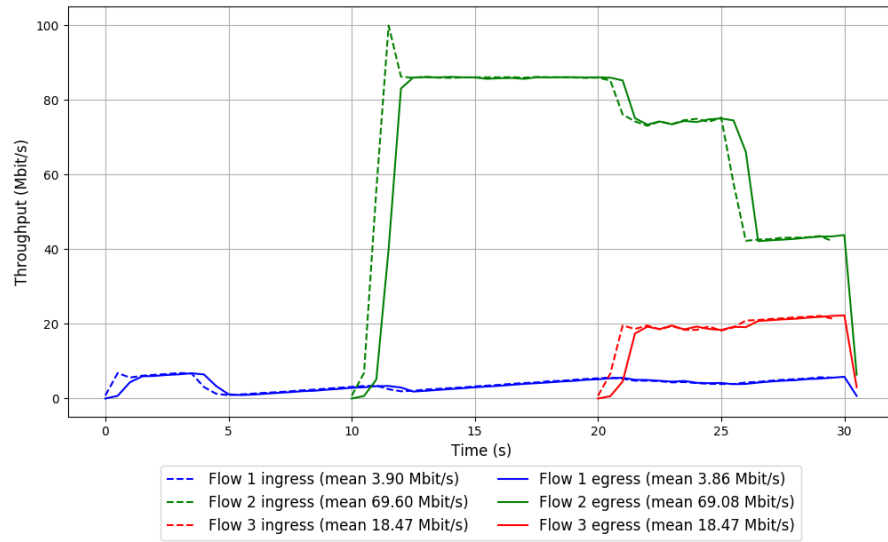
-- Flow 3:

Average throughput: 18.47 Mbit/s

95th percentile per-packet one-way delay: 110.635 ms

Loss rate: 0.01%

# Run 4: Report of TCP Vegas — Data Link

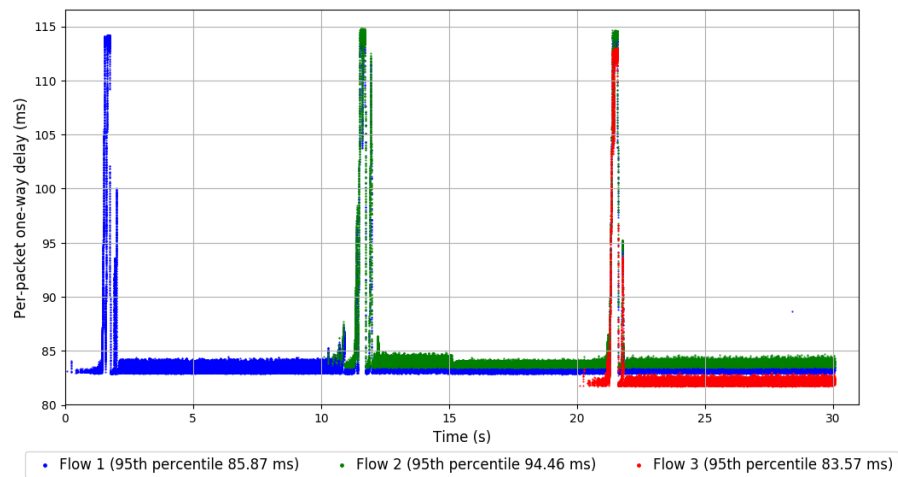
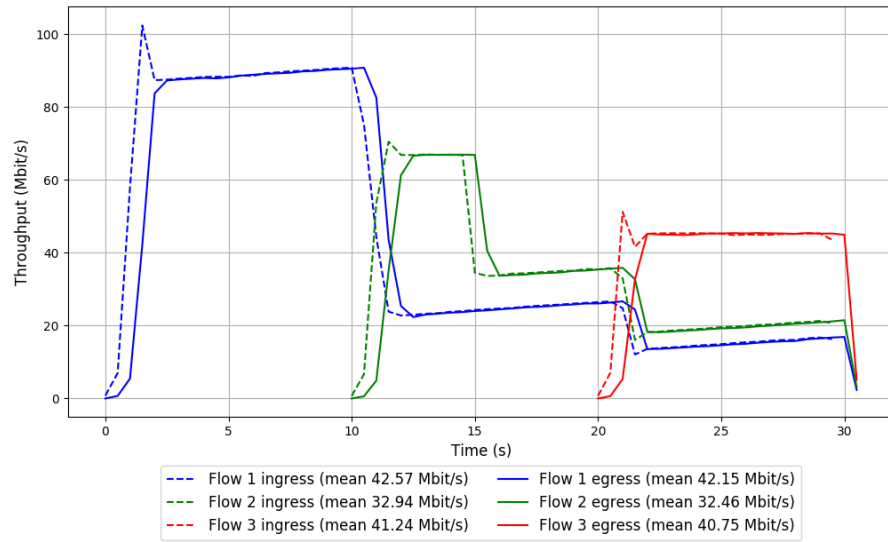


Run 5: Statistics of TCP Vegas

Start at: 2018-09-25 11:37:33  
End at: 2018-09-25 11:38:03  
Local clock offset: -2.565 ms  
Remote clock offset: -3.293 ms

# Below is generated by plot.py at 2018-09-25 12:13:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.32 Mbit/s  
95th percentile per-packet one-way delay: 86.903 ms  
Loss rate: 1.16%  
-- Flow 1:  
Average throughput: 42.15 Mbit/s  
95th percentile per-packet one-way delay: 85.867 ms  
Loss rate: 1.00%  
-- Flow 2:  
Average throughput: 32.46 Mbit/s  
95th percentile per-packet one-way delay: 94.463 ms  
Loss rate: 1.47%  
-- Flow 3:  
Average throughput: 40.75 Mbit/s  
95th percentile per-packet one-way delay: 83.568 ms  
Loss rate: 1.17%

# Run 5: Report of TCP Vegas — Data Link





Run 1: Statistics of Verus

Start at: 2018-09-25 08:29:48

End at: 2018-09-25 08:30:18

Local clock offset: -3.723 ms

Remote clock offset: 0.439 ms

# Below is generated by plot.py at 2018-09-25 12:13:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 38.04 Mbit/s

95th percentile per-packet one-way delay: 164.031 ms

Loss rate: 72.73%

-- Flow 1:

Average throughput: 13.35 Mbit/s

95th percentile per-packet one-way delay: 176.915 ms

Loss rate: 64.34%

-- Flow 2:

Average throughput: 29.70 Mbit/s

95th percentile per-packet one-way delay: 164.534 ms

Loss rate: 79.50%

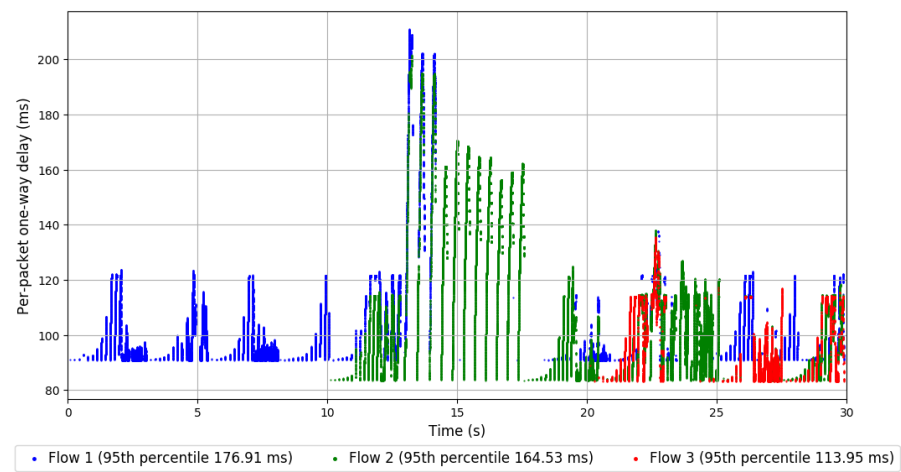
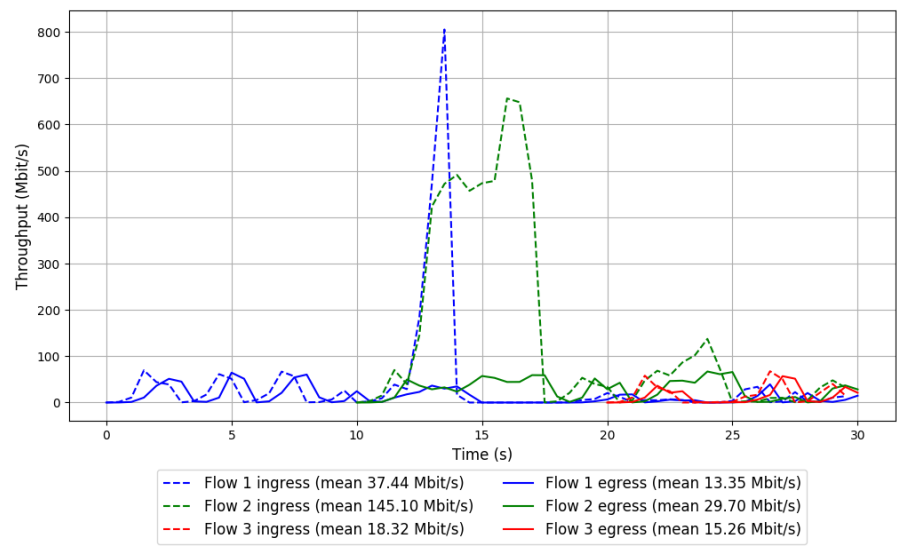
-- Flow 3:

Average throughput: 15.26 Mbit/s

95th percentile per-packet one-way delay: 113.951 ms

Loss rate: 16.72%

Run 1: Report of Verus — Data Link

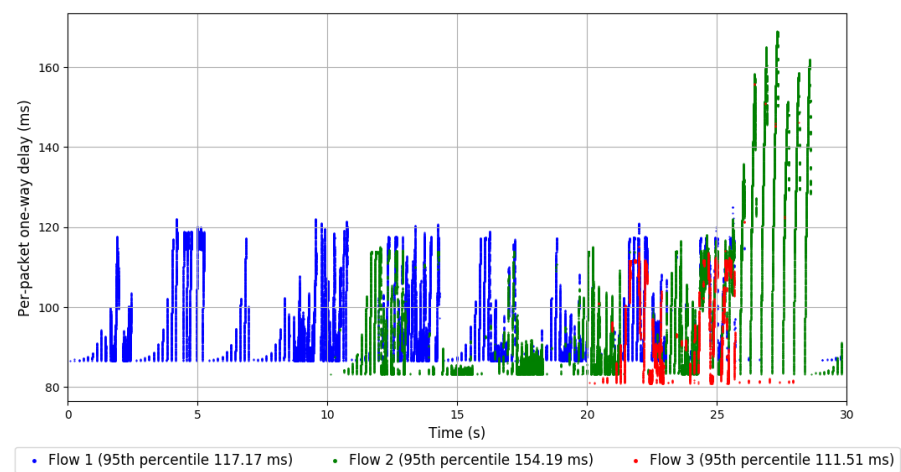
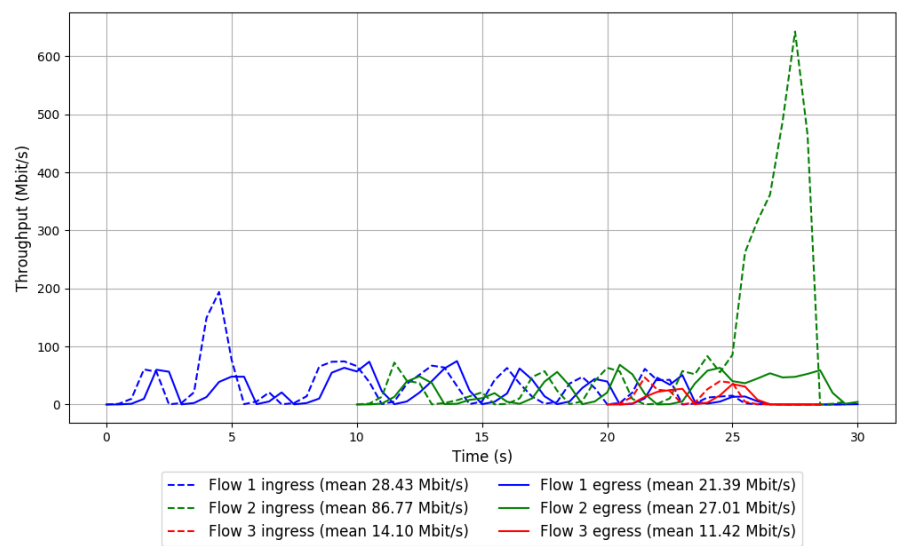


Run 2: Statistics of Verus

Start at: 2018-09-25 09:15:12  
End at: 2018-09-25 09:15:42  
Local clock offset: -6.772 ms  
Remote clock offset: -4.001 ms

# Below is generated by plot.py at 2018-09-25 12:13:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 42.35 Mbit/s  
95th percentile per-packet one-way delay: 140.098 ms  
Loss rate: 52.76%  
-- Flow 1:  
Average throughput: 21.39 Mbit/s  
95th percentile per-packet one-way delay: 117.165 ms  
Loss rate: 24.76%  
-- Flow 2:  
Average throughput: 27.01 Mbit/s  
95th percentile per-packet one-way delay: 154.188 ms  
Loss rate: 68.86%  
-- Flow 3:  
Average throughput: 11.42 Mbit/s  
95th percentile per-packet one-way delay: 111.510 ms  
Loss rate: 18.36%

Run 2: Report of Verus — Data Link

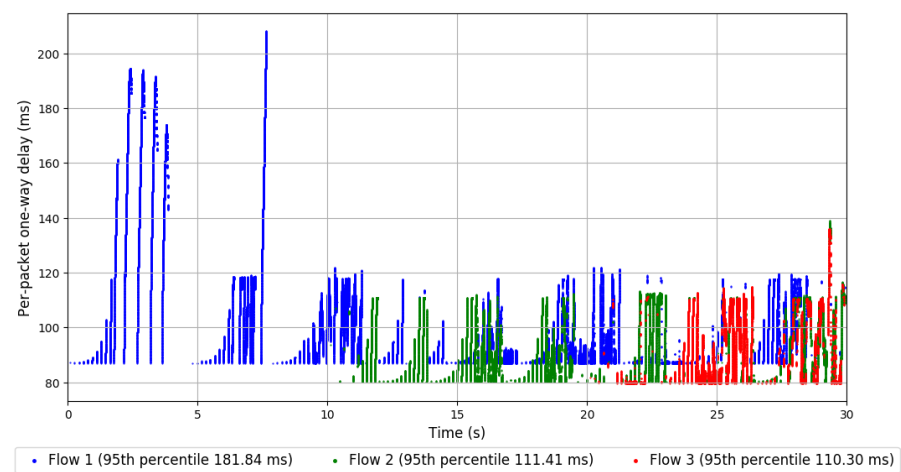
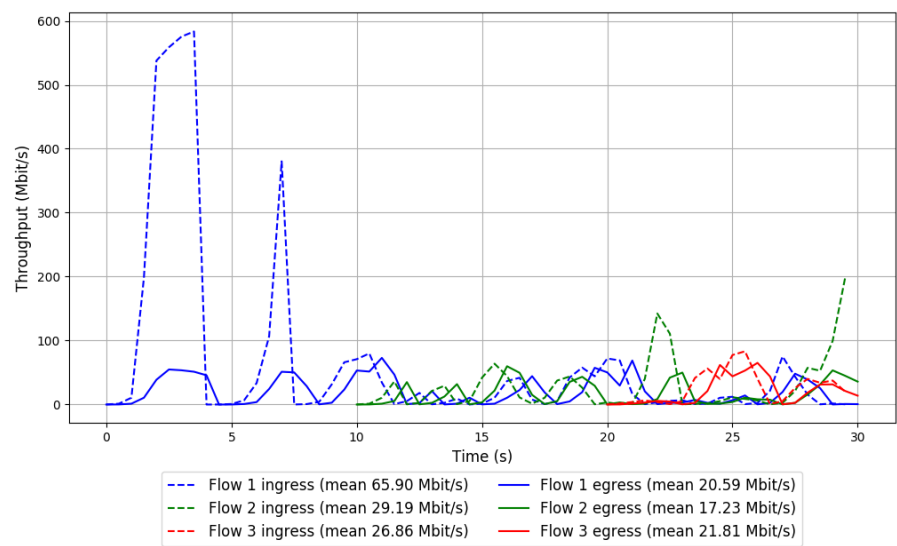


Run 3: Statistics of Verus

Start at: 2018-09-25 10:02:38  
End at: 2018-09-25 10:03:08  
Local clock offset: -7.192 ms  
Remote clock offset: -4.465 ms

# Below is generated by plot.py at 2018-09-25 12:13:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 39.19 Mbit/s  
95th percentile per-packet one-way delay: 163.149 ms  
Loss rate: 58.31%  
-- Flow 1:  
Average throughput: 20.59 Mbit/s  
95th percentile per-packet one-way delay: 181.837 ms  
Loss rate: 68.72%  
-- Flow 2:  
Average throughput: 17.23 Mbit/s  
95th percentile per-packet one-way delay: 111.414 ms  
Loss rate: 40.93%  
-- Flow 3:  
Average throughput: 21.81 Mbit/s  
95th percentile per-packet one-way delay: 110.297 ms  
Loss rate: 18.58%

Run 3: Report of Verus — Data Link

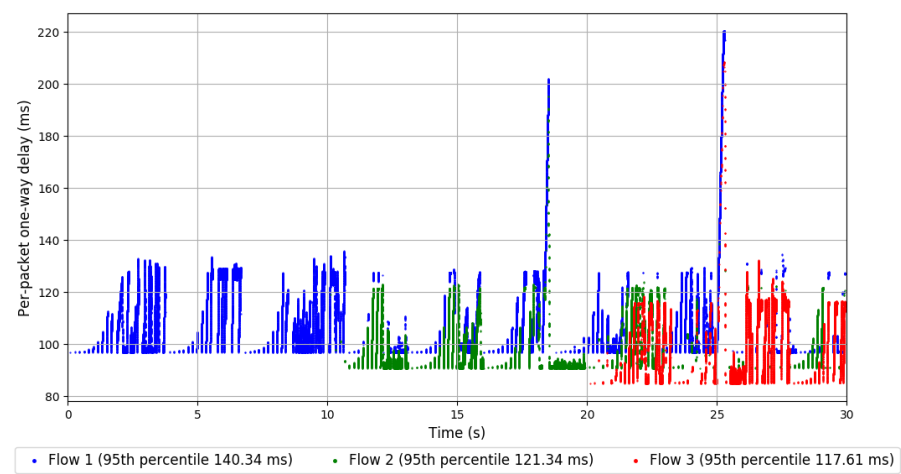
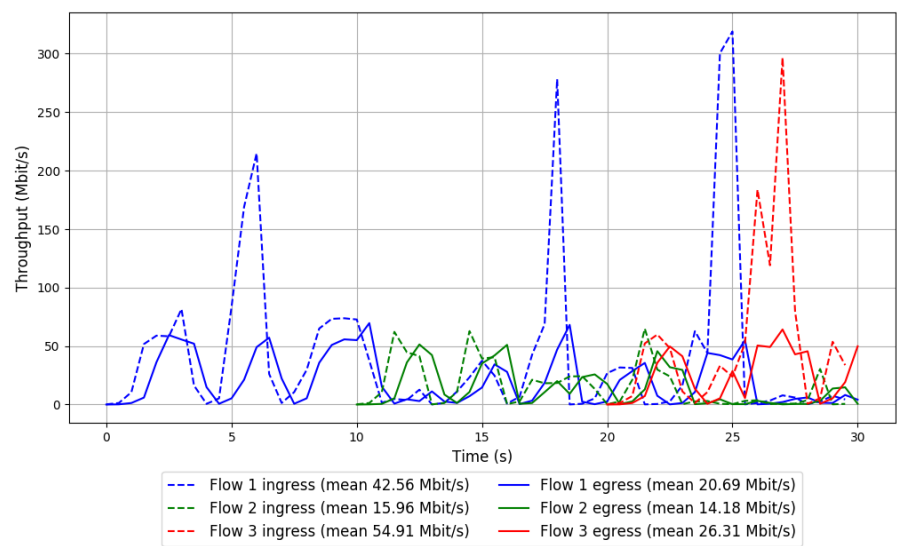


Run 4: Statistics of Verus

Start at: 2018-09-25 10:47:35  
End at: 2018-09-25 10:48:05  
Local clock offset: -4.461 ms  
Remote clock offset: 0.698 ms

```
# Below is generated by plot.py at 2018-09-25 12:14:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.75 Mbit/s
95th percentile per-packet one-way delay: 128.509 ms
Loss rate: 45.53%
-- Flow 1:
Average throughput: 20.69 Mbit/s
95th percentile per-packet one-way delay: 140.342 ms
Loss rate: 51.36%
-- Flow 2:
Average throughput: 14.18 Mbit/s
95th percentile per-packet one-way delay: 121.339 ms
Loss rate: 11.15%
-- Flow 3:
Average throughput: 26.31 Mbit/s
95th percentile per-packet one-way delay: 117.611 ms
Loss rate: 51.94%
```

Run 4: Report of Verus — Data Link





Run 5: Statistics of Verus

Start at: 2018-09-25 11:33:47

End at: 2018-09-25 11:34:17

Local clock offset: -1.903 ms

Remote clock offset: 0.776 ms

# Below is generated by plot.py at 2018-09-25 12:14:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 40.35 Mbit/s

95th percentile per-packet one-way delay: 127.104 ms

Loss rate: 37.48%

-- Flow 1:

Average throughput: 24.01 Mbit/s

95th percentile per-packet one-way delay: 124.340 ms

Loss rate: 42.45%

-- Flow 2:

Average throughput: 18.84 Mbit/s

95th percentile per-packet one-way delay: 127.600 ms

Loss rate: 32.03%

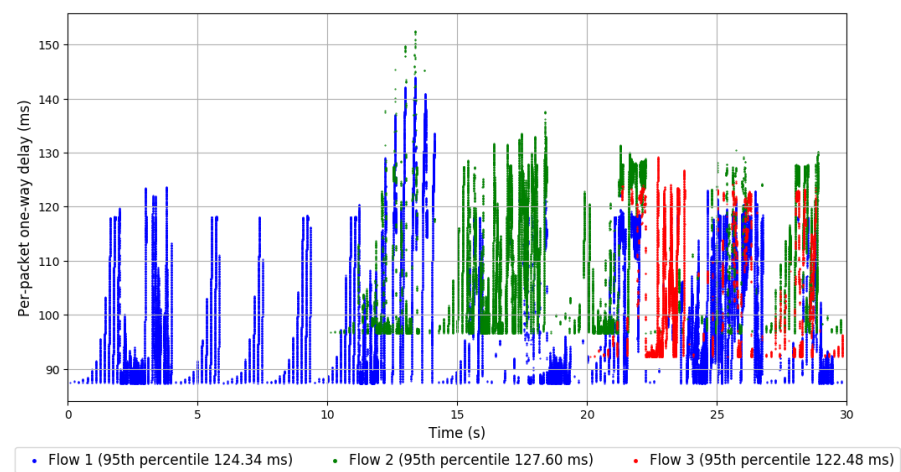
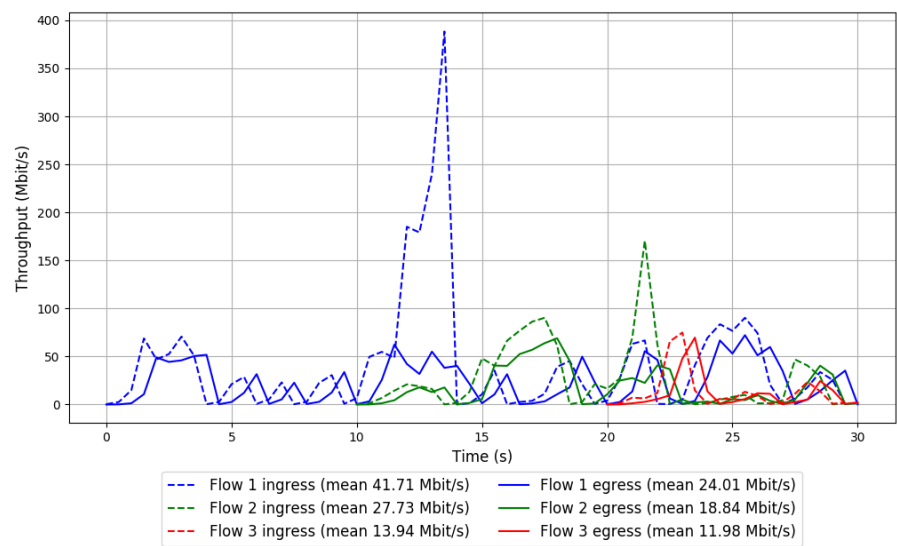
-- Flow 3:

Average throughput: 11.98 Mbit/s

95th percentile per-packet one-way delay: 122.485 ms

Loss rate: 14.08%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-09-25 08:36:12

End at: 2018-09-25 08:36:42

Local clock offset: -4.639 ms

Remote clock offset: 1.493 ms

# Below is generated by plot.py at 2018-09-25 12:14:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 79.43 Mbit/s

95th percentile per-packet one-way delay: 116.698 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 70.10 Mbit/s

95th percentile per-packet one-way delay: 116.621 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 10.08 Mbit/s

95th percentile per-packet one-way delay: 117.832 ms

Loss rate: 1.02%

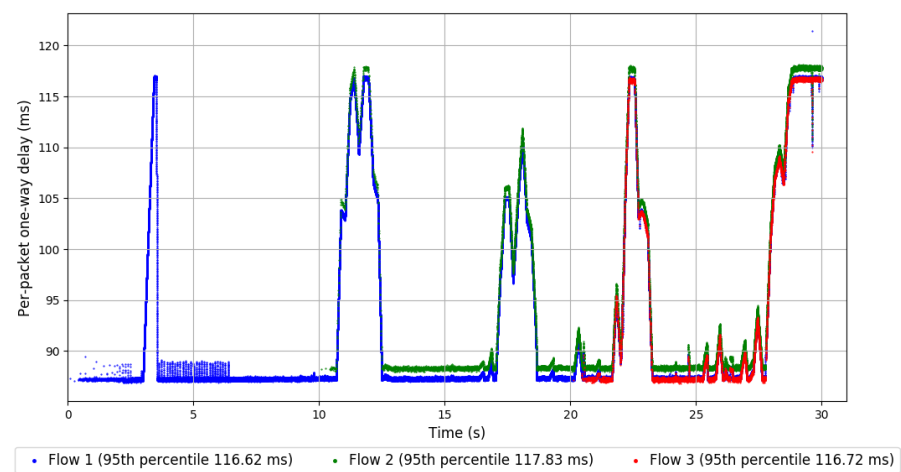
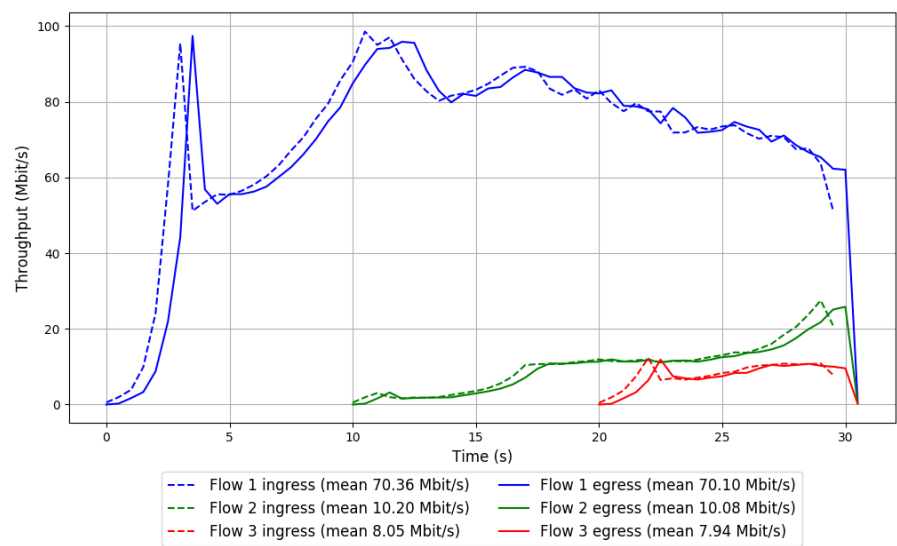
-- Flow 3:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 116.715 ms

Loss rate: 1.09%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-09-25 09:21:31

End at: 2018-09-25 09:22:01

Local clock offset: -5.554 ms

Remote clock offset: 2.154 ms

# Below is generated by plot.py at 2018-09-25 12:14:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 77.72 Mbit/s

95th percentile per-packet one-way delay: 113.855 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 66.10 Mbit/s

95th percentile per-packet one-way delay: 114.144 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 12.90 Mbit/s

95th percentile per-packet one-way delay: 112.518 ms

Loss rate: 0.19%

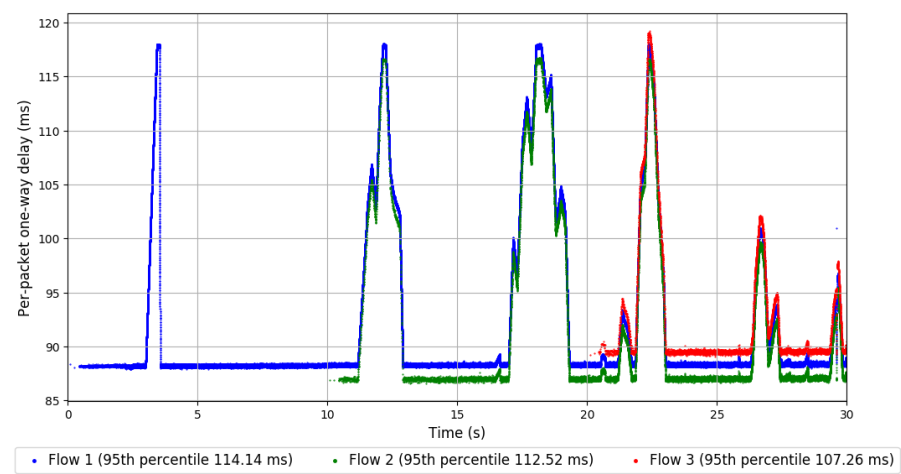
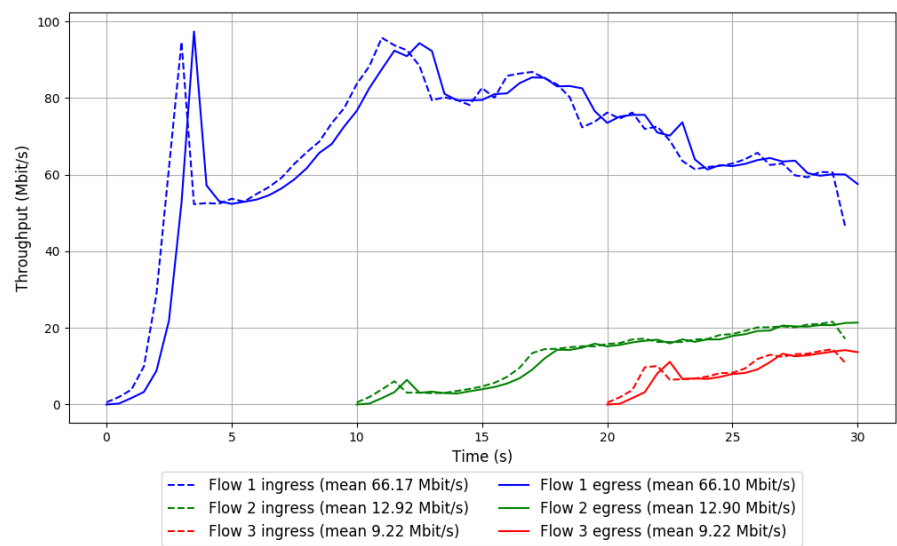
-- Flow 3:

Average throughput: 9.22 Mbit/s

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

Loss rate: 0.08%

Run 2: Report of PCC-Vivace — Data Link

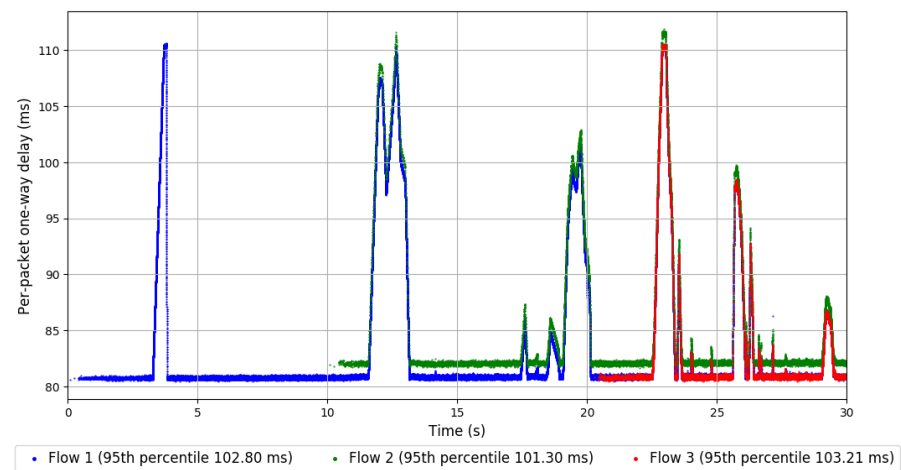
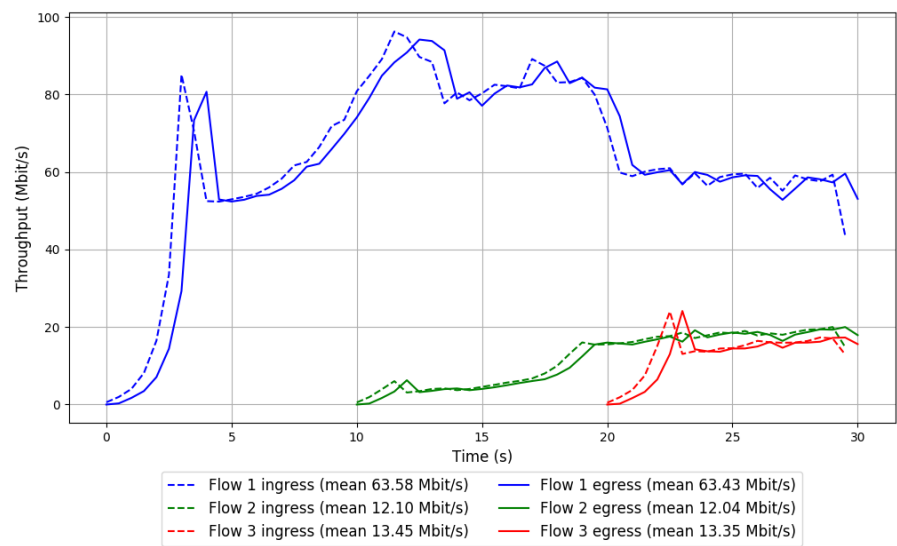


Run 3: Statistics of PCC-Vivace

Start at: 2018-09-25 10:08:45  
End at: 2018-09-25 10:09:15  
Local clock offset: -8.302 ms  
Remote clock offset: -4.454 ms

# Below is generated by plot.py at 2018-09-25 12:14:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.85 Mbit/s  
95th percentile per-packet one-way delay: 102.591 ms  
Loss rate: 0.29%  
-- Flow 1:  
Average throughput: 63.43 Mbit/s  
95th percentile per-packet one-way delay: 102.802 ms  
Loss rate: 0.23%  
-- Flow 2:  
Average throughput: 12.04 Mbit/s  
95th percentile per-packet one-way delay: 101.304 ms  
Loss rate: 0.48%  
-- Flow 3:  
Average throughput: 13.35 Mbit/s  
95th percentile per-packet one-way delay: 103.208 ms  
Loss rate: 0.84%

Run 3: Report of PCC-Vivace — Data Link



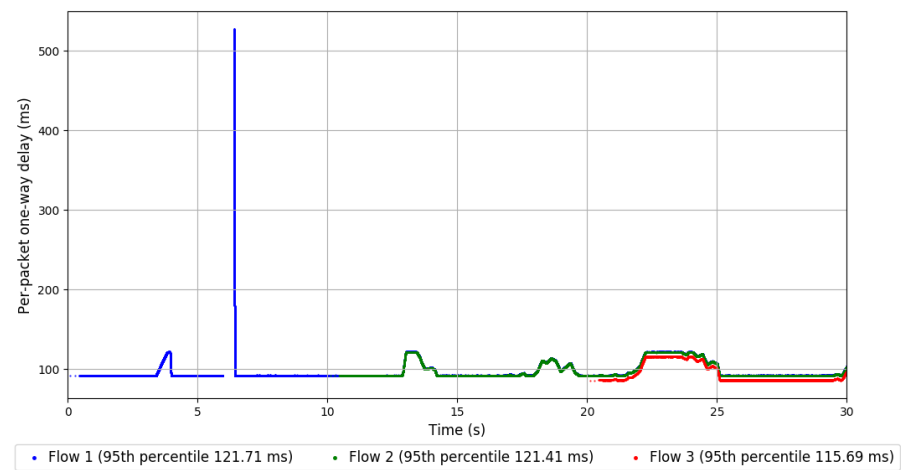
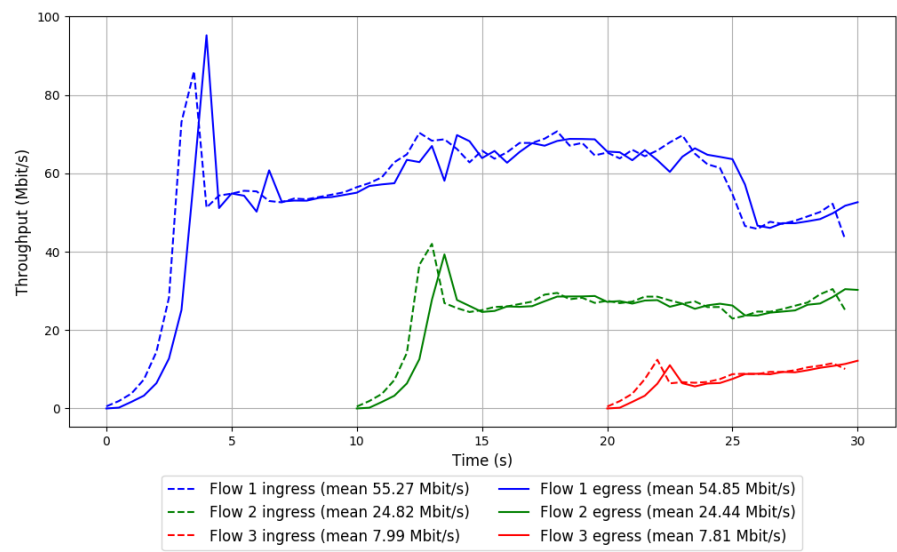


Run 4: Statistics of PCC-Vivace

Start at: 2018-09-25 10:53:35  
End at: 2018-09-25 10:54:05  
Local clock offset: -4.248 ms  
Remote clock offset: -0.293 ms

# Below is generated by plot.py at 2018-09-25 12:14:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 73.69 Mbit/s  
95th percentile per-packet one-way delay: 121.663 ms  
Loss rate: 0.96%  
-- Flow 1:  
Average throughput: 54.85 Mbit/s  
95th percentile per-packet one-way delay: 121.714 ms  
Loss rate: 0.74%  
-- Flow 2:  
Average throughput: 24.44 Mbit/s  
95th percentile per-packet one-way delay: 121.412 ms  
Loss rate: 1.51%  
-- Flow 3:  
Average throughput: 7.81 Mbit/s  
95th percentile per-packet one-way delay: 115.689 ms  
Loss rate: 2.20%

Run 4: Report of PCC-Vivace — Data Link

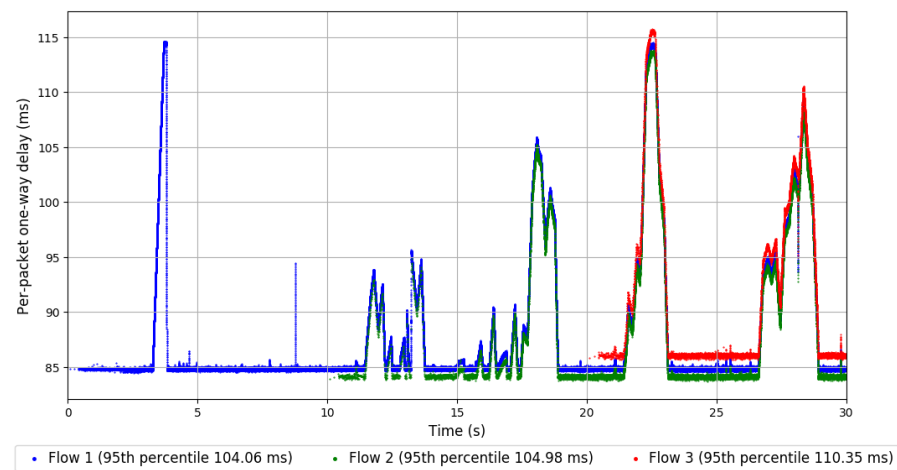
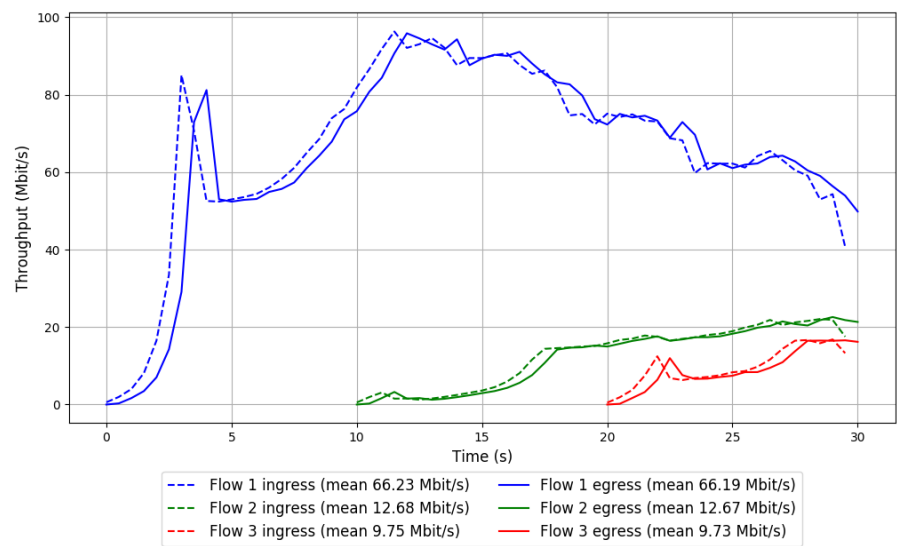


Run 5: Statistics of PCC-Vivace

Start at: 2018-09-25 11:40:32  
End at: 2018-09-25 11:41:02  
Local clock offset: -2.681 ms  
Remote clock offset: -0.281 ms

# Below is generated by plot.py at 2018-09-25 12:14:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.83 Mbit/s  
95th percentile per-packet one-way delay: 104.413 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 66.19 Mbit/s  
95th percentile per-packet one-way delay: 104.056 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 12.67 Mbit/s  
95th percentile per-packet one-way delay: 104.983 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 9.73 Mbit/s  
95th percentile per-packet one-way delay: 110.352 ms  
Loss rate: 0.26%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-09-25 08:32:02

End at: 2018-09-25 08:32:32

Local clock offset: -3.865 ms

Remote clock offset: 1.48 ms

# Below is generated by plot.py at 2018-09-25 12:14:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.85 Mbit/s

95th percentile per-packet one-way delay: 97.453 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 85.177 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 0.96 Mbit/s

95th percentile per-packet one-way delay: 97.918 ms

Loss rate: 0.00%

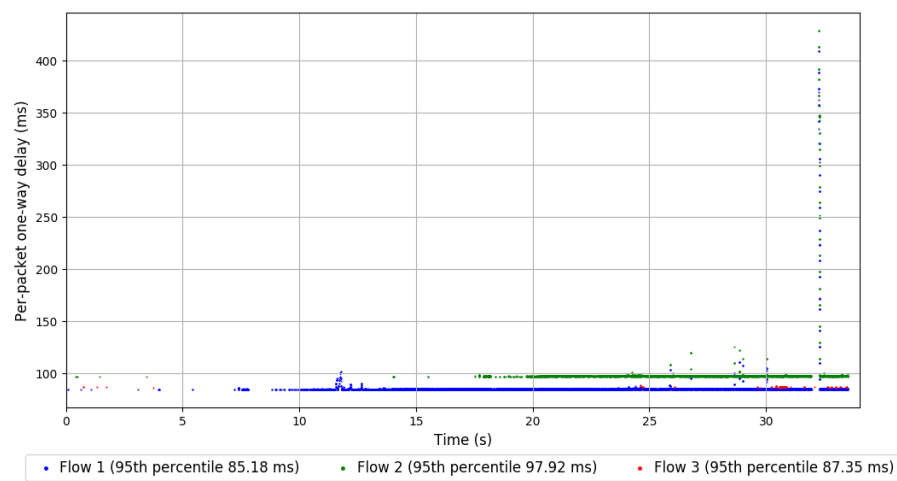
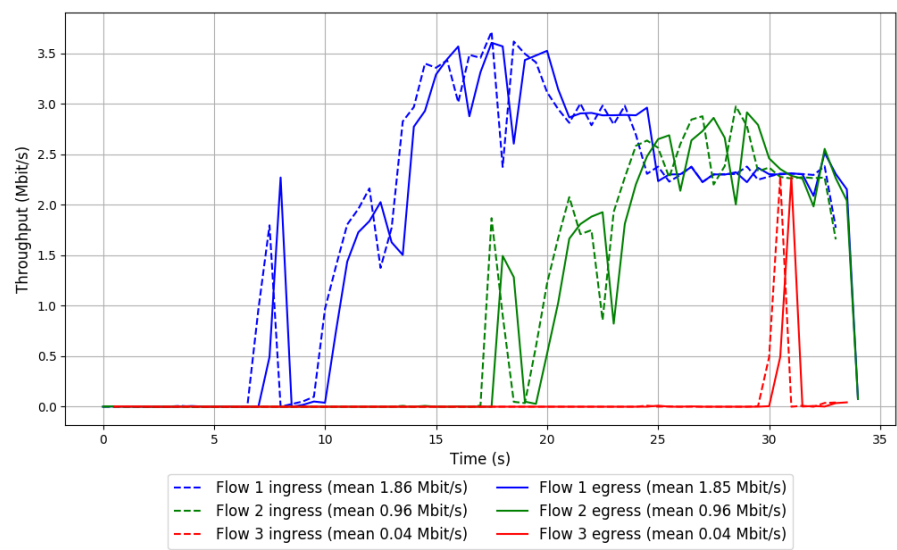
-- Flow 3:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 87.351 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-09-25 09:17:19

End at: 2018-09-25 09:17:49

Local clock offset: -5.601 ms

Remote clock offset: -2.88 ms

# Below is generated by plot.py at 2018-09-25 12:14:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.90 Mbit/s

95th percentile per-packet one-way delay: 91.588 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 81.601 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.02 Mbit/s

95th percentile per-packet one-way delay: 83.830 ms

Loss rate: 0.00%

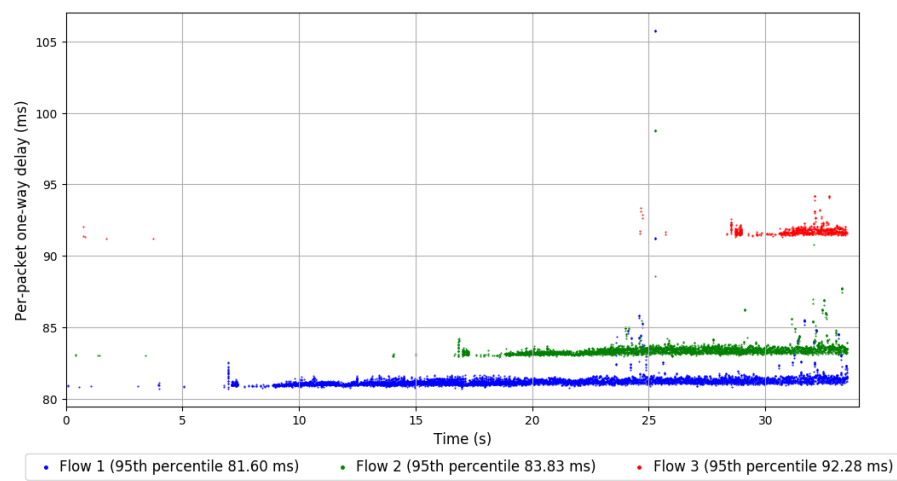
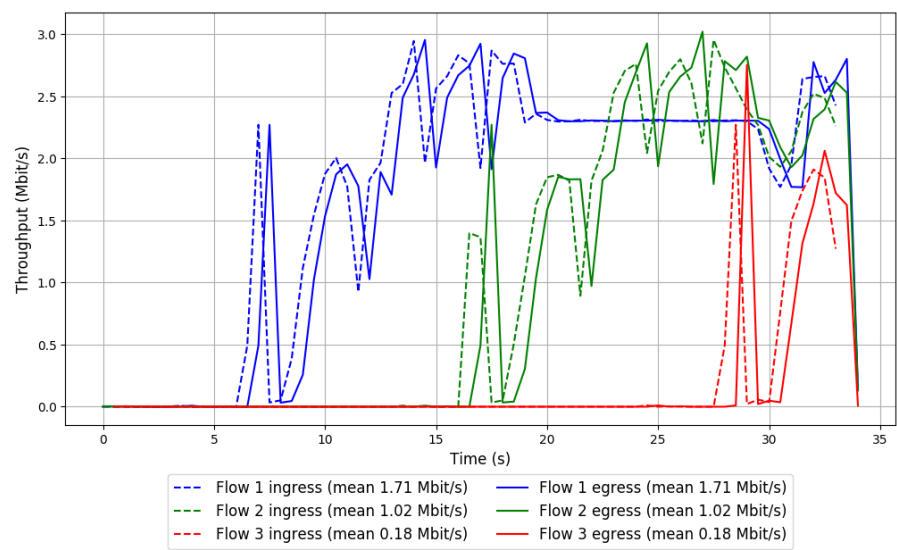
-- Flow 3:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 92.285 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



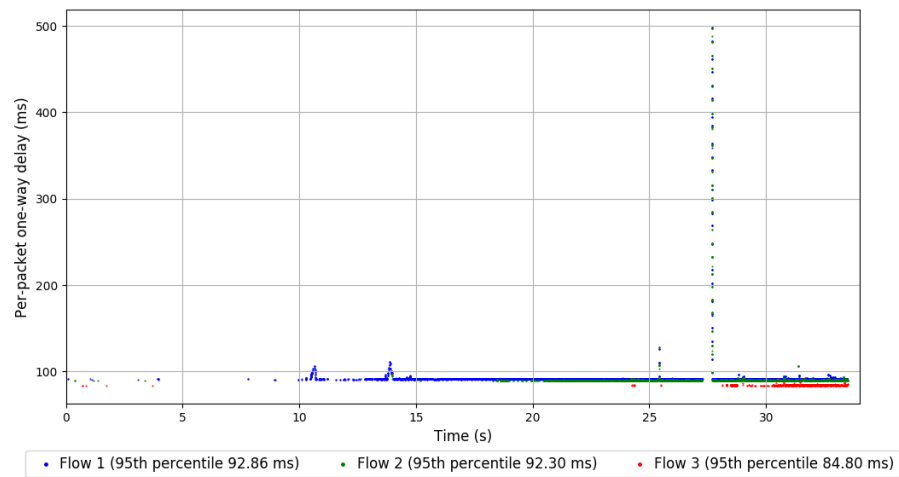
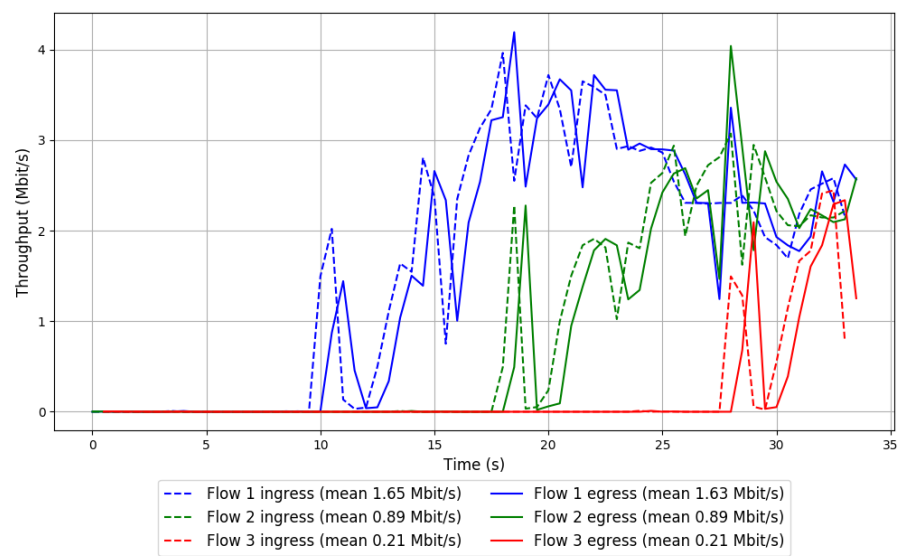


Run 3: Statistics of WebRTC media

Start at: 2018-09-25 10:05:00  
End at: 2018-09-25 10:05:30  
Local clock offset: -7.291 ms  
Remote clock offset: -0.356 ms

# Below is generated by plot.py at 2018-09-25 12:14:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.72 Mbit/s  
95th percentile per-packet one-way delay: 92.363 ms  
Loss rate: 0.65%  
-- Flow 1:  
Average throughput: 1.63 Mbit/s  
95th percentile per-packet one-way delay: 92.855 ms  
Loss rate: 1.06%  
-- Flow 2:  
Average throughput: 0.89 Mbit/s  
95th percentile per-packet one-way delay: 92.300 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 84.804 ms  
Loss rate: 0.14%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-09-25 10:49:51

End at: 2018-09-25 10:50:21

Local clock offset: -4.099 ms

Remote clock offset: 0.753 ms

# Below is generated by plot.py at 2018-09-25 12:14:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.67 Mbit/s

95th percentile per-packet one-way delay: 90.816 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 1.81 Mbit/s

95th percentile per-packet one-way delay: 86.291 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 1.70 Mbit/s

95th percentile per-packet one-way delay: 88.592 ms

Loss rate: 1.04%

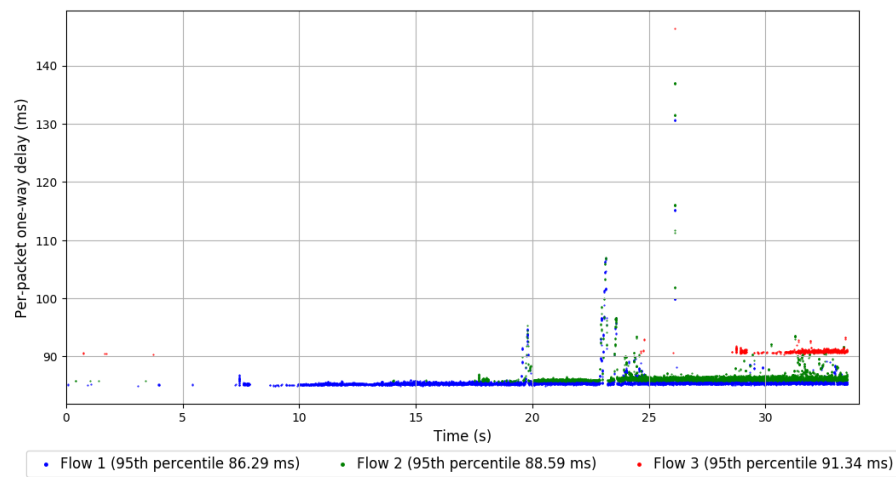
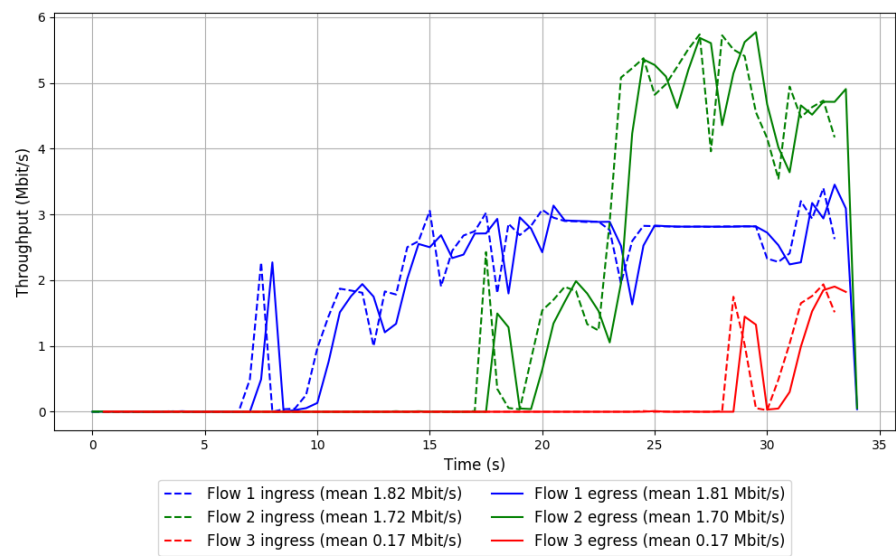
-- Flow 3:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 91.340 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-09-25 11:36:18  
End at: 2018-09-25 11:36:48  
Local clock offset: -2.639 ms  
Remote clock offset: -0.374 ms

# Below is generated by plot.py at 2018-09-25 12:14:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.93 Mbit/s  
95th percentile per-packet one-way delay: 86.474 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 1.70 Mbit/s  
95th percentile per-packet one-way delay: 85.155 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.02 Mbit/s  
95th percentile per-packet one-way delay: 85.339 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.23 Mbit/s  
95th percentile per-packet one-way delay: 87.297 ms  
Loss rate: 0.11%

Run 5: Report of WebRTC media — Data Link

