

## Pantheon Report

Generated at 2018-10-27 02:48:14 (UTC).

Data path: GCE Iowa on `ens4` (*remote*) → GCE London on `ens4` (*local*).

Repeated the test of 18 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 `time.google.com` and have been applied to correct the timestamps in logs.

### System info:

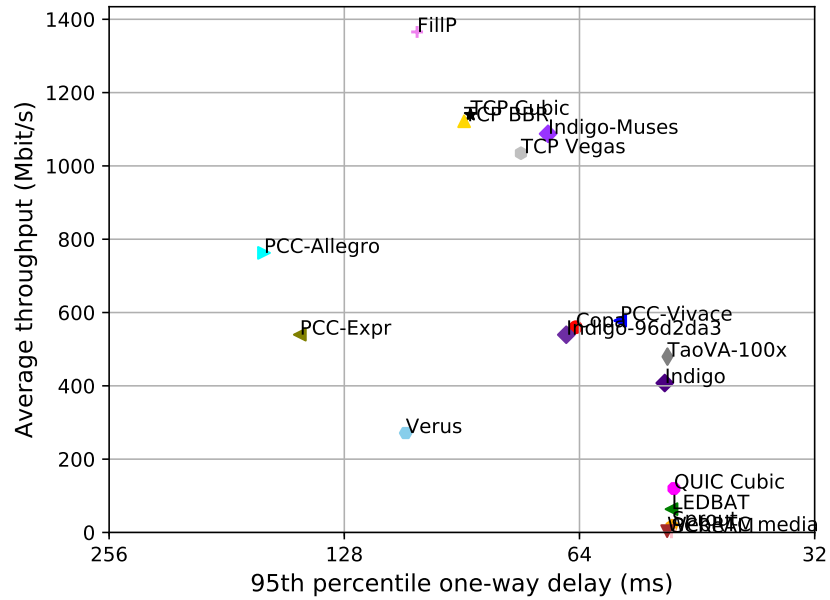
```
Linux 4.15.0-1021-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

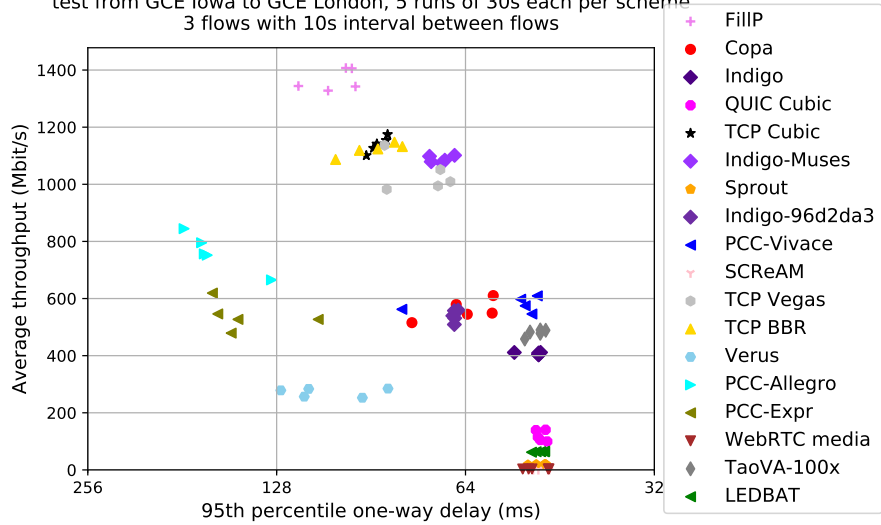
```
branch: muses @ 2e19c0464530faa92c63f8217c9971438a26a3be
third_party/fillp @ 5332fc9127c63565e13f4933b336c02d1aabdac6
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/indigo-96d2da3 @ 8413272d46f8aa0bcb967ed7048b6a8f994abb95
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 65ac1b19bbefed0c6349ae986009b4fa8643c40a
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
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 GCE Iowa to GCE London, 5 runs of 30s each per scheme  
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE Iowa to GCE London, 5 runs of 30s each per scheme  
 3 flows with 10s interval between flows



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	583.82	548.44	525.29	87.97	89.23	86.43	0.39	0.63	1.36
Copa	5	288.98	268.09	280.45	58.25	66.72	85.19	0.34	0.51	1.09
TCP Cubic	5	586.95	572.32	520.47	85.45	88.19	75.09	0.32	0.62	1.25
FillP	5	729.21	682.93	555.00	104.68	103.61	78.95	0.82	1.05	1.33
Indigo	5	215.43	202.93	175.44	49.81	49.39	49.91	0.32	0.51	1.13
Indigo-96d2da3	5	277.27	268.83	257.02	67.18	66.17	64.78	0.26	0.37	0.89
LEDBAT	5	41.39	26.84	13.35	48.75	48.68	47.98	0.63	0.96	1.94
Indigo-Muses	5	593.72	529.19	438.21	70.45	71.73	62.72	0.29	0.48	1.27
PCC-Allegro	5	428.70	366.18	278.03	168.92	139.19	109.25	4.12	1.59	1.77
PCC-Expr	5	292.14	279.50	189.18	142.77	101.65	96.41	3.23	1.63	3.94
QUIC Cubic	5	67.60	51.80	52.72	47.75	47.85	47.68	0.35	0.83	1.17
SCReAM	5	0.22	0.22	0.22	48.52	47.62	47.16	0.26	0.53	1.09
Sprout	5	9.62	9.14	8.89	47.90	48.22	48.51	0.31	0.34	1.07
TaoVA-100x	5	244.75	239.44	229.22	49.51	48.57	49.18	0.33	0.50	0.93
TCP Vegas	5	556.18	482.13	478.42	75.92	64.79	78.59	0.28	0.53	1.09
Verus	5	158.79	119.71	100.41	123.11	71.53	75.12	0.70	0.27	1.43
PCC-Vivace	5	352.39	274.06	132.92	57.83	51.74	69.11	0.51	0.39	1.42
WebRTC media	5	1.85	1.20	0.47	47.49	48.17	47.93	0.47	0.65	1.14

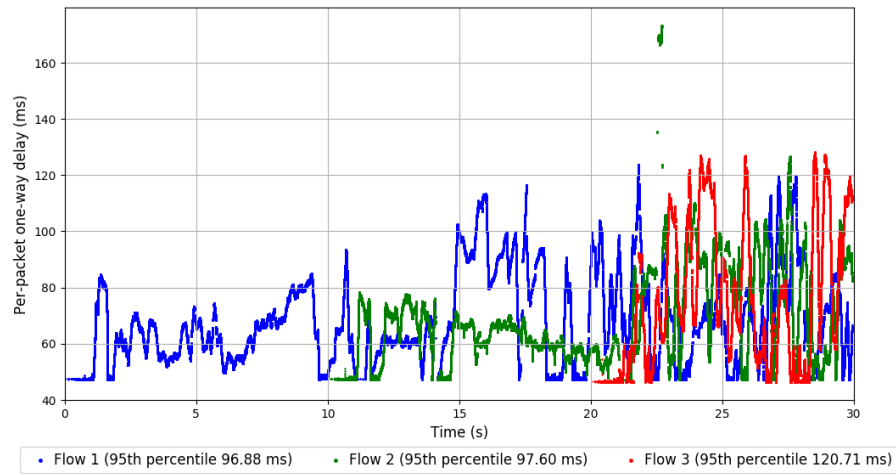
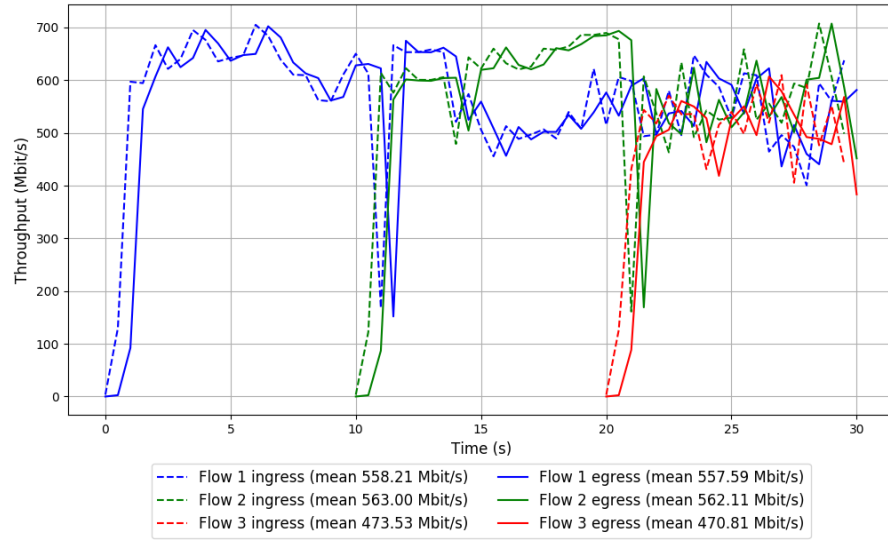


Run 1: Statistics of TCP BBR

Start at: 2018-10-26 21:36:34  
End at: 2018-10-26 21:37:04  
Local clock offset: -0.088 ms  
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2018-10-27 00:39:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1086.94 Mbit/s  
95th percentile per-packet one-way delay: 103.101 ms  
Loss rate: 0.65%  
-- Flow 1:  
Average throughput: 557.59 Mbit/s  
95th percentile per-packet one-way delay: 96.882 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 562.11 Mbit/s  
95th percentile per-packet one-way delay: 97.600 ms  
Loss rate: 0.63%  
-- Flow 3:  
Average throughput: 470.81 Mbit/s  
95th percentile per-packet one-way delay: 120.710 ms  
Loss rate: 1.51%

# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-10-26 22:07:48

End at: 2018-10-26 22:08:18

Local clock offset: 0.216 ms

Remote clock offset: 0.037 ms

# Below is generated by plot.py at 2018-10-27 00:40:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1118.80 Mbit/s

95th percentile per-packet one-way delay: 94.461 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 565.33 Mbit/s

95th percentile per-packet one-way delay: 97.031 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 539.72 Mbit/s

95th percentile per-packet one-way delay: 91.611 ms

Loss rate: 0.64%

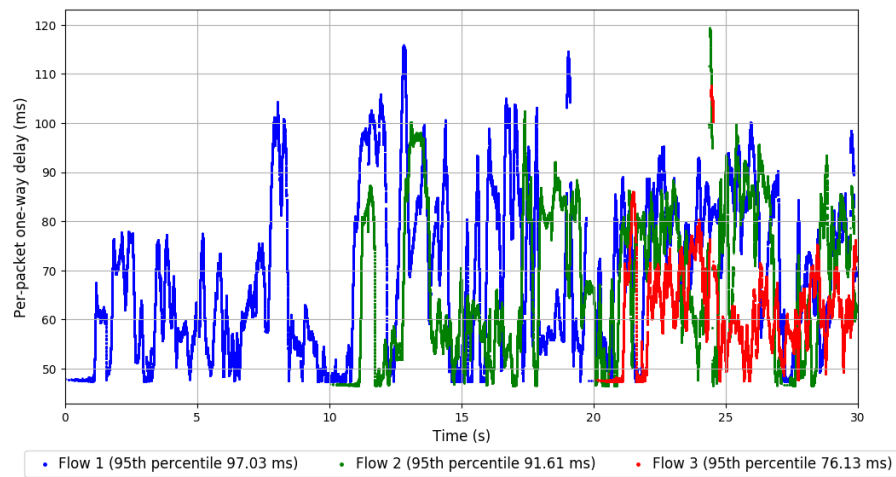
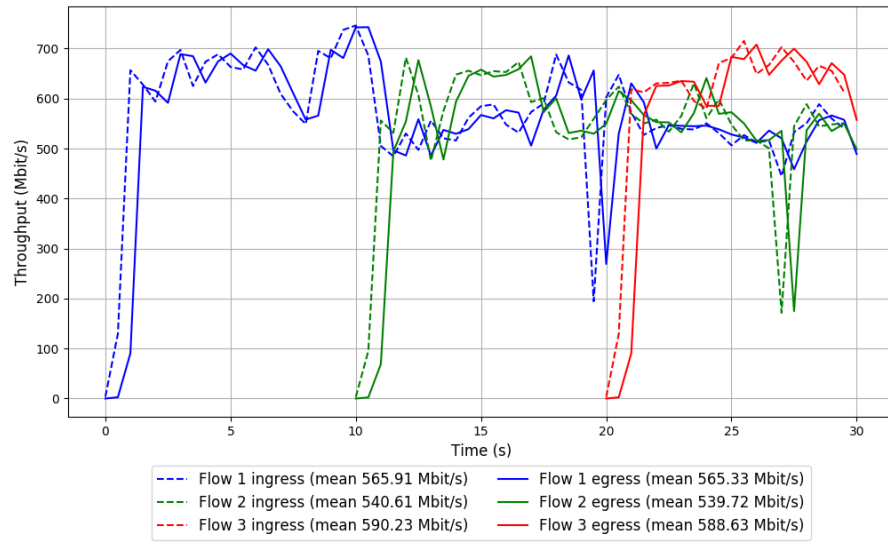
-- Flow 3:

Average throughput: 588.63 Mbit/s

95th percentile per-packet one-way delay: 76.127 ms

Loss rate: 1.21%

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

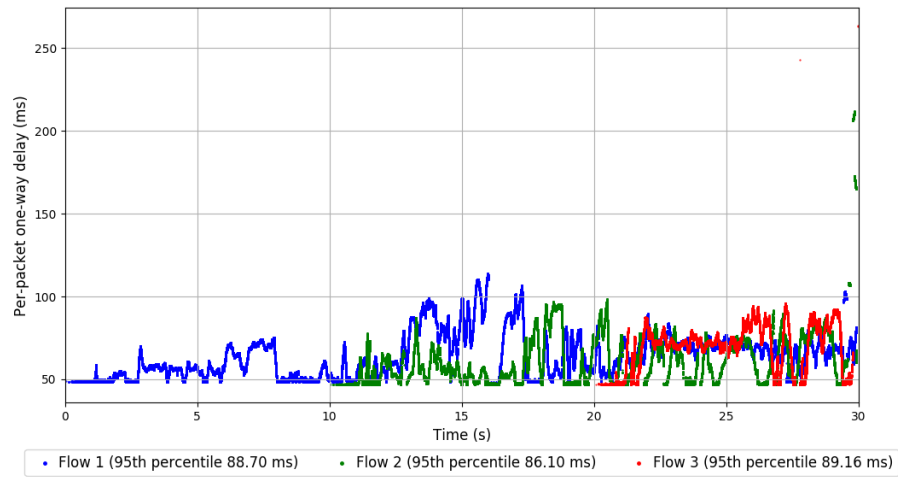
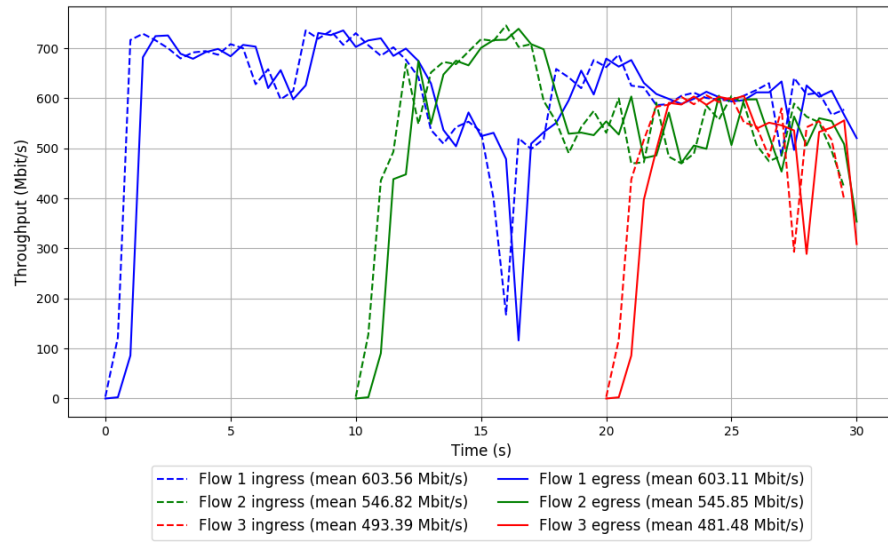


Run 3: Statistics of TCP BBR

Start at: 2018-10-26 22:39:03  
End at: 2018-10-26 22:39:33  
Local clock offset: -0.557 ms  
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2018-10-27 00:40:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1123.86 Mbit/s  
95th percentile per-packet one-way delay: 88.297 ms  
Loss rate: 0.63%  
-- Flow 1:  
Average throughput: 603.11 Mbit/s  
95th percentile per-packet one-way delay: 88.705 ms  
Loss rate: 0.39%  
-- Flow 2:  
Average throughput: 545.85 Mbit/s  
95th percentile per-packet one-way delay: 86.098 ms  
Loss rate: 0.65%  
-- Flow 3:  
Average throughput: 481.48 Mbit/s  
95th percentile per-packet one-way delay: 89.161 ms  
Loss rate: 1.47%

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



Run 4: Statistics of TCP BBR

Start at: 2018-10-26 23:10:09

End at: 2018-10-26 23:10:39

Local clock offset: -0.182 ms

Remote clock offset: -0.26 ms

# Below is generated by plot.py at 2018-10-27 00:41:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1147.41 Mbit/s

95th percentile per-packet one-way delay: 83.054 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 605.26 Mbit/s

95th percentile per-packet one-way delay: 76.246 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 527.48 Mbit/s

95th percentile per-packet one-way delay: 89.195 ms

Loss rate: 0.57%

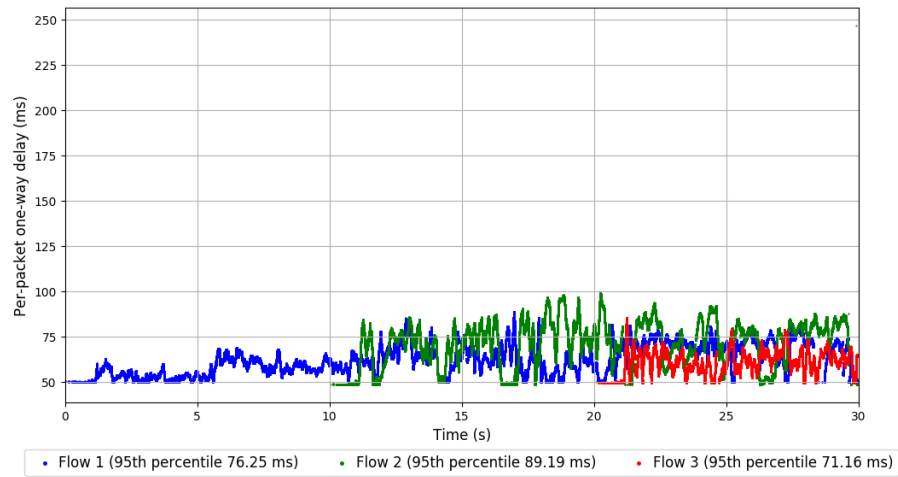
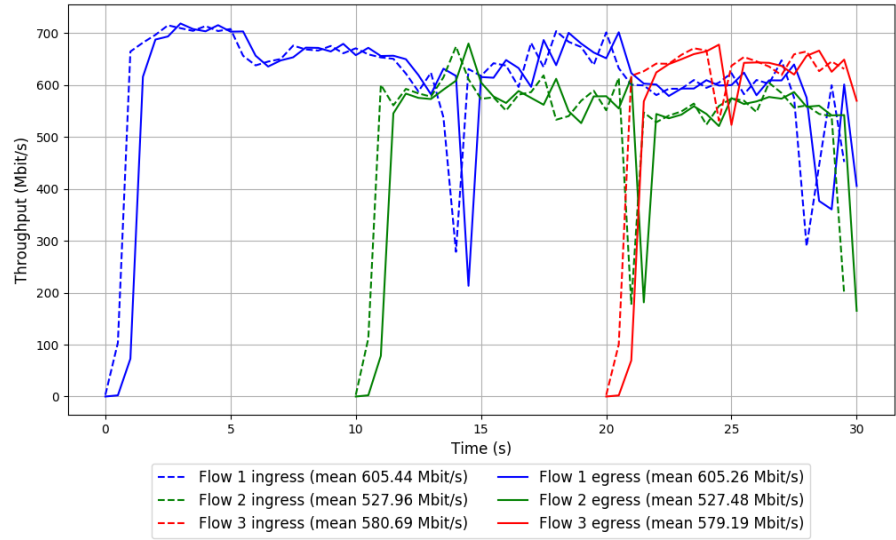
-- Flow 3:

Average throughput: 579.19 Mbit/s

95th percentile per-packet one-way delay: 71.158 ms

Loss rate: 1.23%

# Run 4: Report of TCP BBR — Data Link



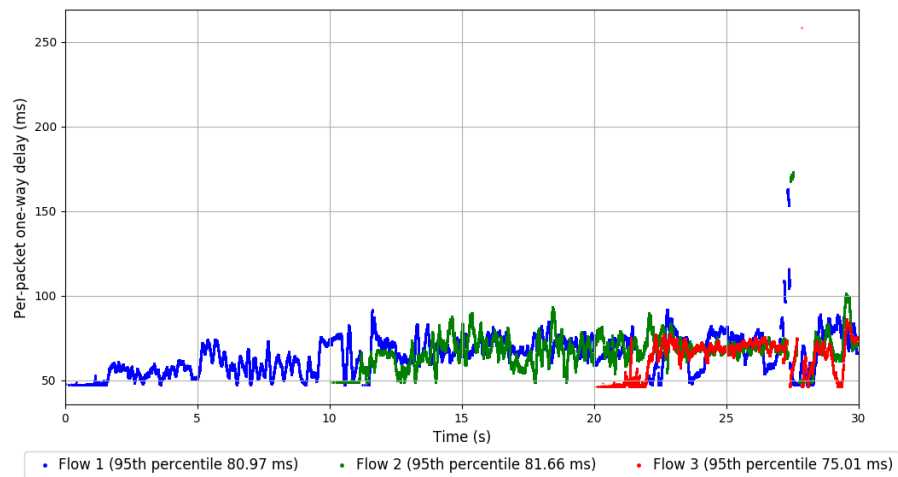
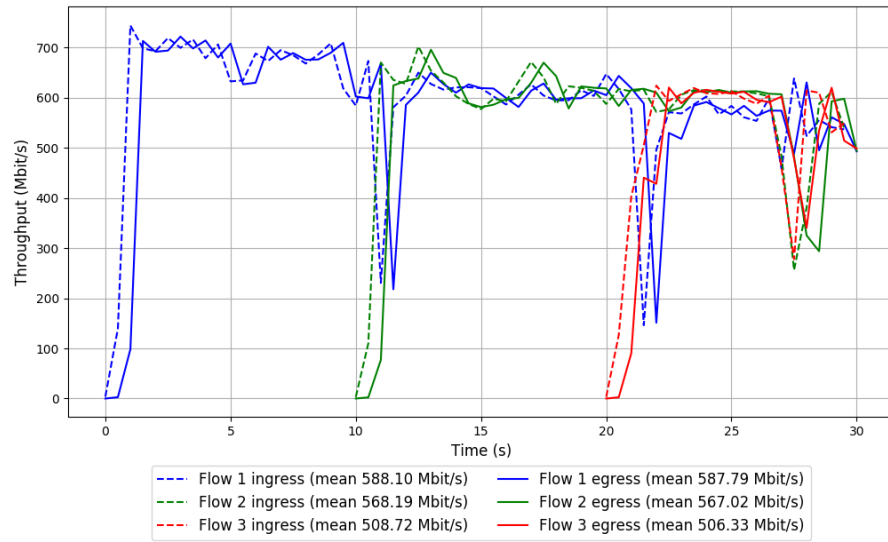


Run 5: Statistics of TCP BBR

Start at: 2018-10-26 23:41:22  
End at: 2018-10-26 23:41:52  
Local clock offset: -0.074 ms  
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2018-10-27 00:41:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1132.15 Mbit/s  
95th percentile per-packet one-way delay: 80.686 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 587.79 Mbit/s  
95th percentile per-packet one-way delay: 80.965 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 567.02 Mbit/s  
95th percentile per-packet one-way delay: 81.664 ms  
Loss rate: 0.68%  
-- Flow 3:  
Average throughput: 506.33 Mbit/s  
95th percentile per-packet one-way delay: 75.007 ms  
Loss rate: 1.39%

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

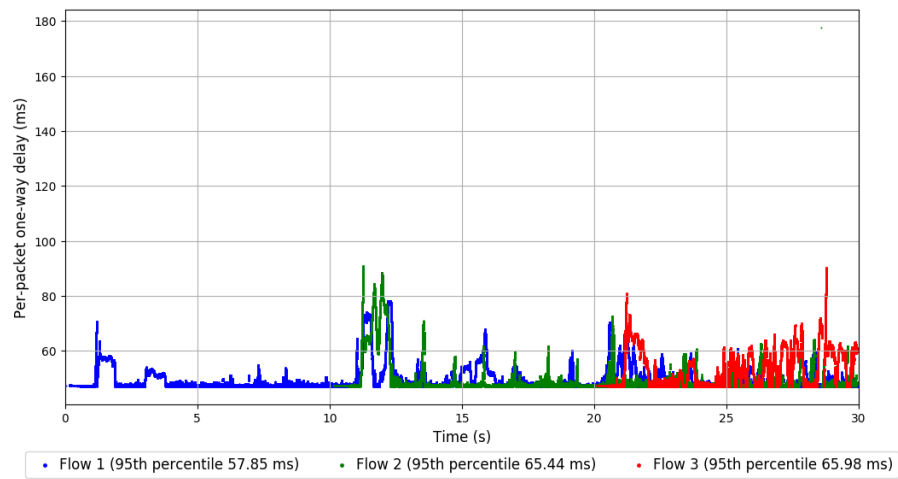
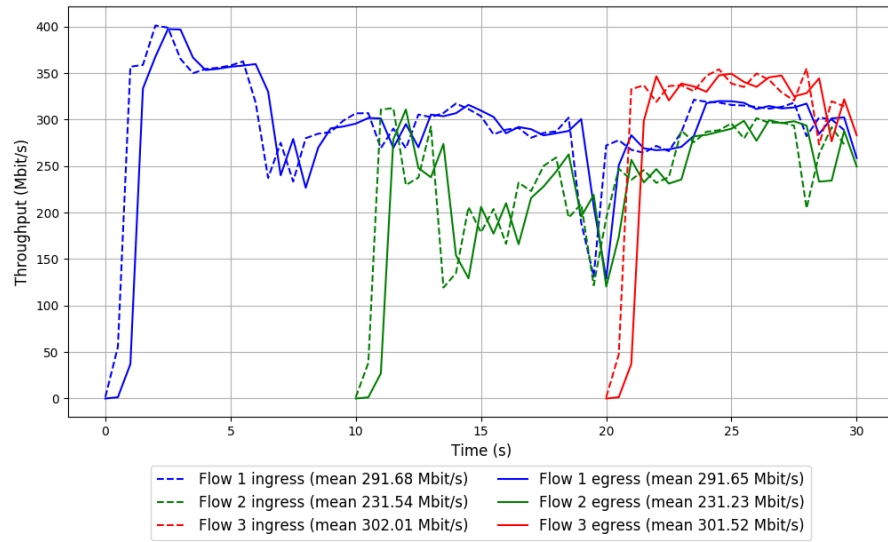


Run 1: Statistics of Copa

Start at: 2018-10-26 21:44:56  
End at: 2018-10-26 21:45:26  
Local clock offset: -0.055 ms  
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2018-10-27 00:41:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 545.06 Mbit/s  
95th percentile per-packet one-way delay: 63.581 ms  
Loss rate: 0.55%  
-- Flow 1:  
Average throughput: 291.65 Mbit/s  
95th percentile per-packet one-way delay: 57.846 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 231.23 Mbit/s  
95th percentile per-packet one-way delay: 65.437 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 301.52 Mbit/s  
95th percentile per-packet one-way delay: 65.976 ms  
Loss rate: 1.11%

## Run 1: Report of Copa — Data Link

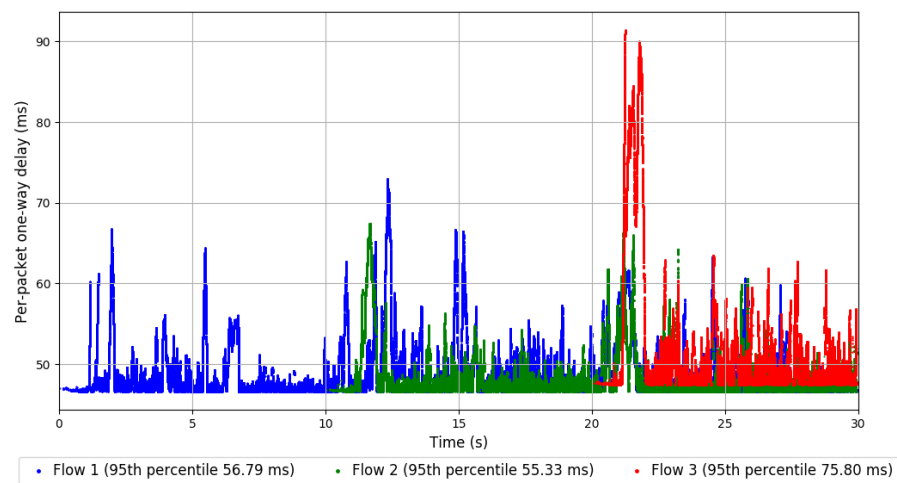
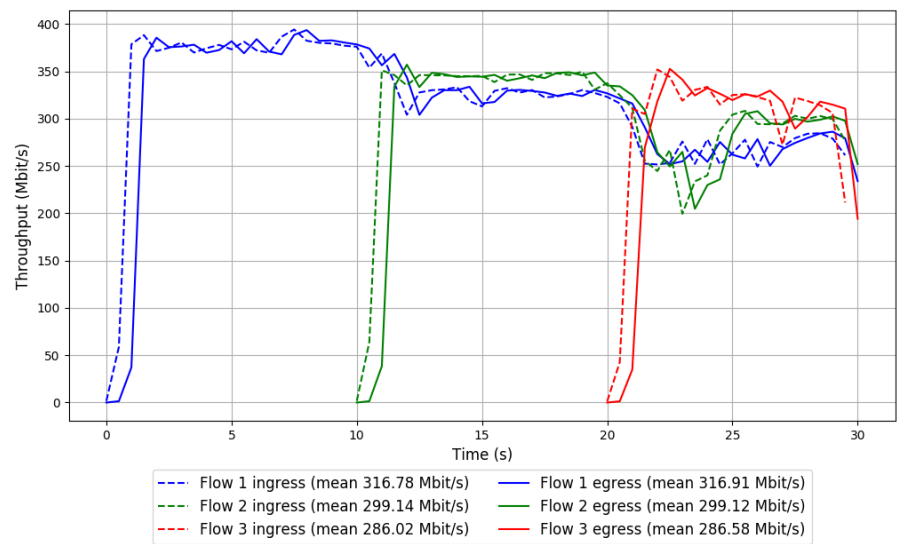


Run 2: Statistics of Copa

Start at: 2018-10-26 22:16:11  
End at: 2018-10-26 22:16:41  
Local clock offset: 0.173 ms  
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2018-10-27 00:41:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 610.40 Mbit/s  
95th percentile per-packet one-way delay: 57.802 ms  
Loss rate: 0.42%  
-- Flow 1:  
Average throughput: 316.91 Mbit/s  
95th percentile per-packet one-way delay: 56.792 ms  
Loss rate: 0.28%  
-- Flow 2:  
Average throughput: 299.12 Mbit/s  
95th percentile per-packet one-way delay: 55.331 ms  
Loss rate: 0.48%  
-- Flow 3:  
Average throughput: 286.58 Mbit/s  
95th percentile per-packet one-way delay: 75.797 ms  
Loss rate: 0.78%

Run 2: Report of Copa — Data Link

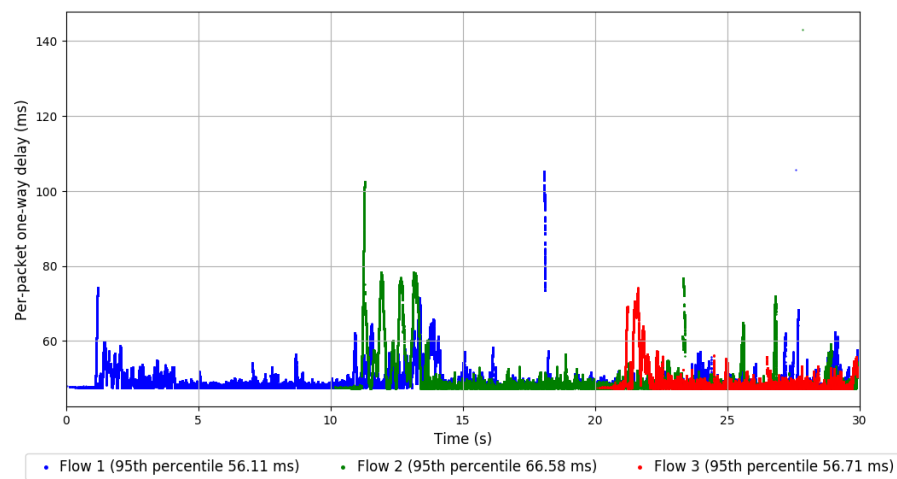
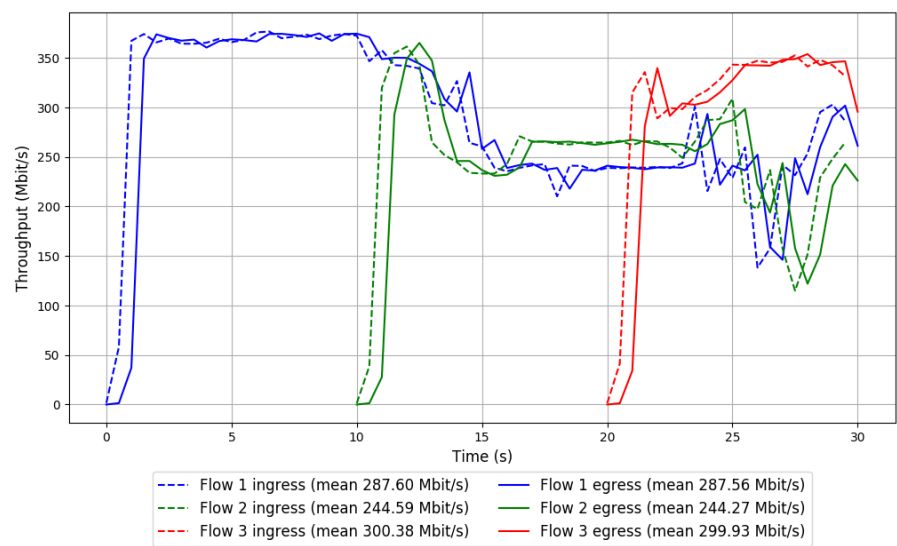


Run 3: Statistics of Copa

Start at: 2018-10-26 22:47:28  
End at: 2018-10-26 22:47:58  
Local clock offset: 0.182 ms  
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2018-10-27 00:41:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 548.97 Mbit/s  
95th percentile per-packet one-way delay: 58.032 ms  
Loss rate: 0.56%  
-- Flow 1:  
Average throughput: 287.56 Mbit/s  
95th percentile per-packet one-way delay: 56.108 ms  
Loss rate: 0.34%  
-- Flow 2:  
Average throughput: 244.27 Mbit/s  
95th percentile per-packet one-way delay: 66.580 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 299.93 Mbit/s  
95th percentile per-packet one-way delay: 56.714 ms  
Loss rate: 1.10%

Run 3: Report of Copa — Data Link



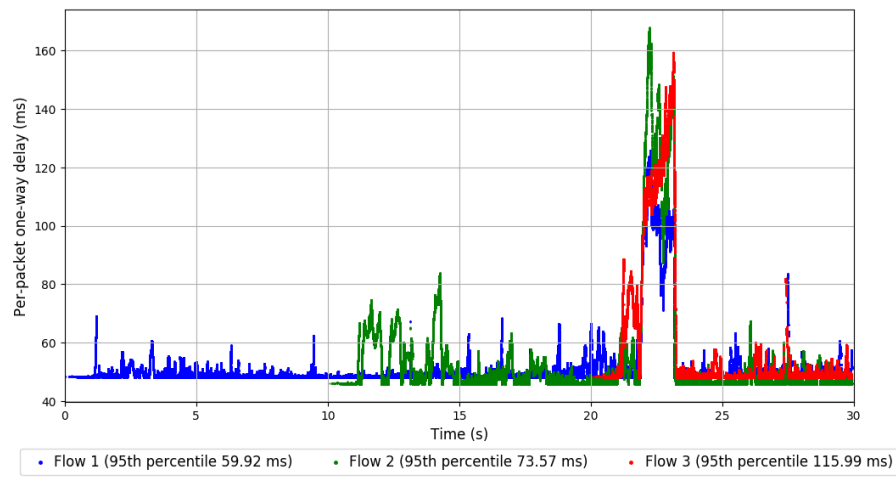
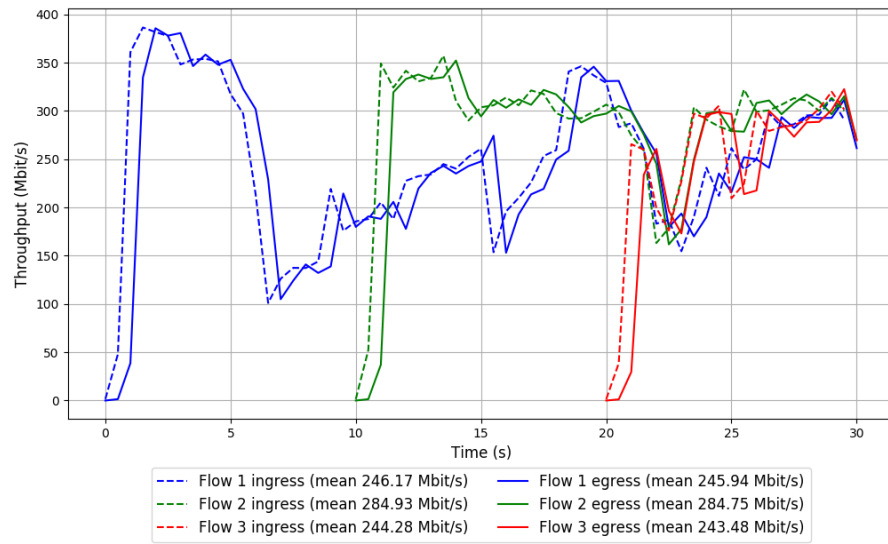


Run 4: Statistics of Copa

Start at: 2018-10-26 23:18:41  
End at: 2018-10-26 23:19:11  
Local clock offset: -0.468 ms  
Remote clock offset: -0.248 ms

# Below is generated by plot.py at 2018-10-27 00:54:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 515.56 Mbit/s  
95th percentile per-packet one-way delay: 77.906 ms  
Loss rate: 0.60%  
-- Flow 1:  
Average throughput: 245.94 Mbit/s  
95th percentile per-packet one-way delay: 59.920 ms  
Loss rate: 0.42%  
-- Flow 2:  
Average throughput: 284.75 Mbit/s  
95th percentile per-packet one-way delay: 73.570 ms  
Loss rate: 0.53%  
-- Flow 3:  
Average throughput: 243.48 Mbit/s  
95th percentile per-packet one-way delay: 115.986 ms  
Loss rate: 1.30%

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



Run 5: Statistics of Copa

Start at: 2018-10-26 23:49:49

End at: 2018-10-26 23:50:19

Local clock offset: -0.048 ms

Remote clock offset: 0.019 ms

# Below is generated by plot.py at 2018-10-27 00:56:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 579.26 Mbit/s

95th percentile per-packet one-way delay: 66.215 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 302.83 Mbit/s

95th percentile per-packet one-way delay: 60.575 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 281.09 Mbit/s

95th percentile per-packet one-way delay: 72.698 ms

Loss rate: 0.32%

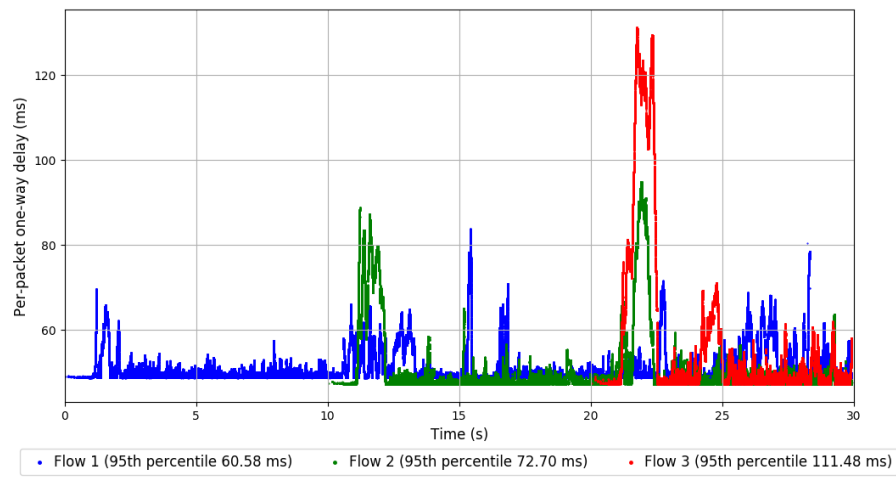
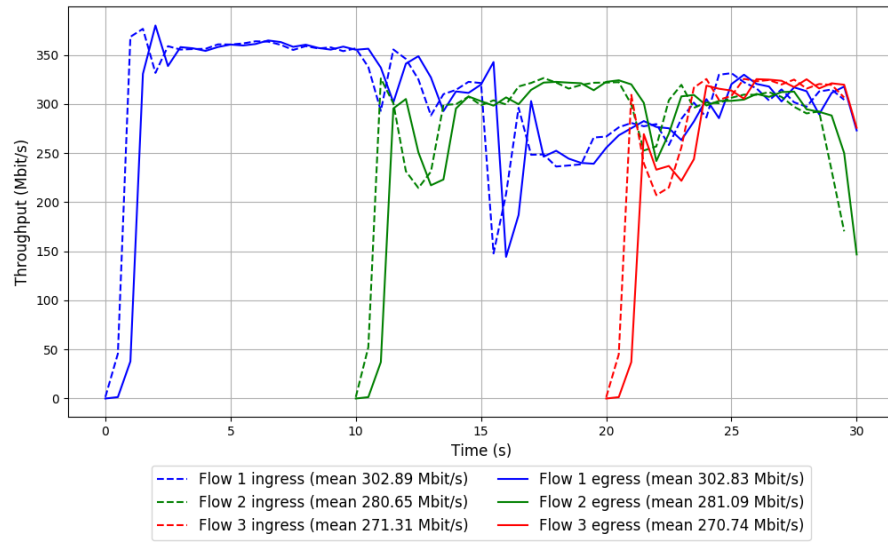
-- Flow 3:

Average throughput: 270.74 Mbit/s

95th percentile per-packet one-way delay: 111.484 ms

Loss rate: 1.16%

## Run 5: Report of Copa — Data Link

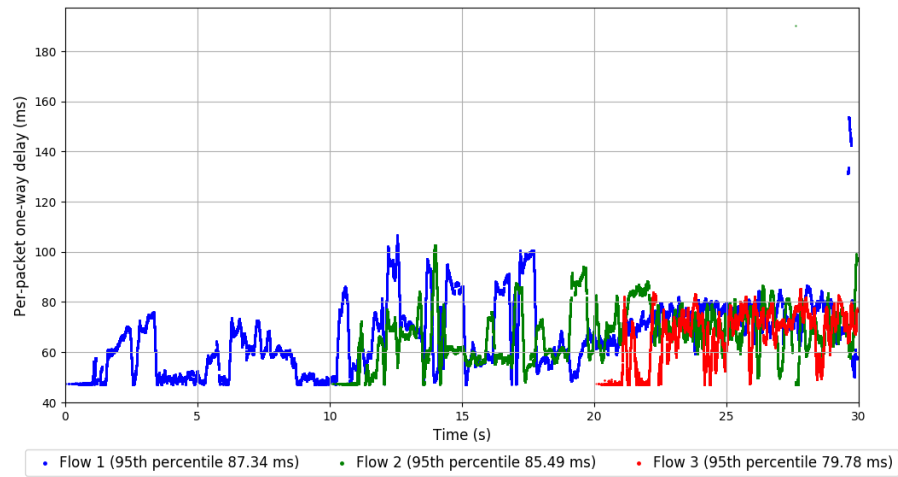
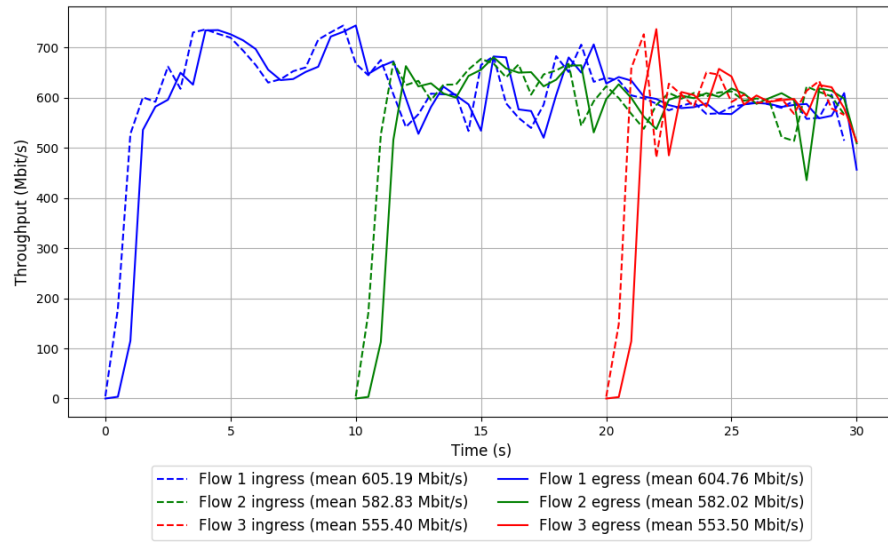


Run 1: Statistics of TCP Cubic

Start at: 2018-10-26 21:48:14  
End at: 2018-10-26 21:48:44  
Local clock offset: -0.106 ms  
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2018-10-27 00:59:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1174.61 Mbit/s  
95th percentile per-packet one-way delay: 85.190 ms  
Loss rate: 0.60%  
-- Flow 1:  
Average throughput: 604.76 Mbit/s  
95th percentile per-packet one-way delay: 87.338 ms  
Loss rate: 0.39%  
-- Flow 2:  
Average throughput: 582.02 Mbit/s  
95th percentile per-packet one-way delay: 85.486 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 553.50 Mbit/s  
95th percentile per-packet one-way delay: 79.784 ms  
Loss rate: 1.29%

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



Run 2: Statistics of TCP Cubic

Start at: 2018-10-26 22:19:32

End at: 2018-10-26 22:20:02

Local clock offset: -0.167 ms

Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2018-10-27 00:59:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1154.03 Mbit/s

95th percentile per-packet one-way delay: 85.637 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 586.51 Mbit/s

95th percentile per-packet one-way delay: 75.598 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 588.48 Mbit/s

95th percentile per-packet one-way delay: 85.714 ms

Loss rate: 0.61%

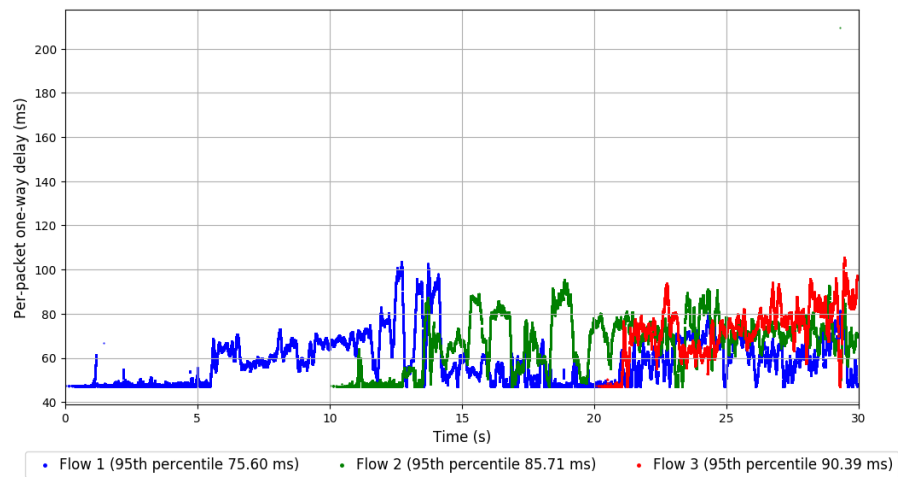
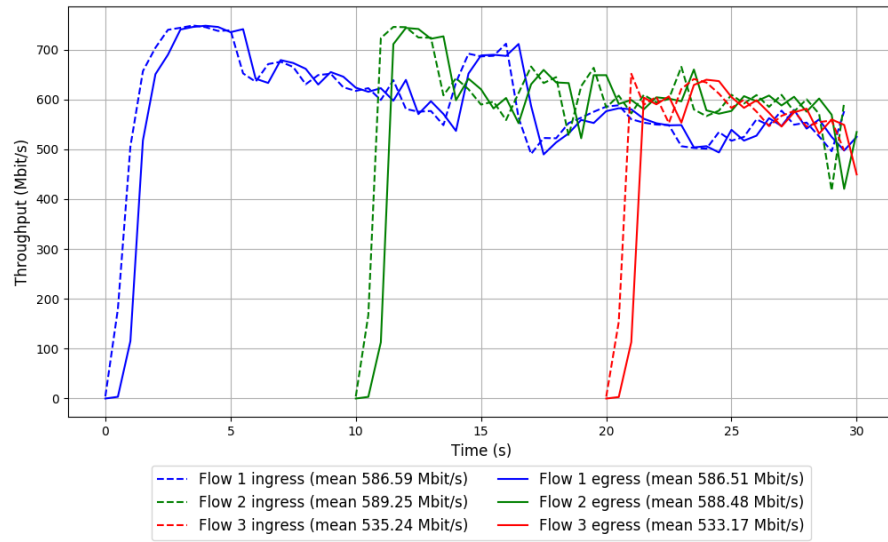
-- Flow 3:

Average throughput: 533.17 Mbit/s

95th percentile per-packet one-way delay: 90.393 ms

Loss rate: 1.33%

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





Run 3: Statistics of TCP Cubic

Start at: 2018-10-26 22:50:46

End at: 2018-10-26 22:51:16

Local clock offset: 0.165 ms

Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2018-10-27 00:59:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1141.40 Mbit/s

95th percentile per-packet one-way delay: 88.613 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 571.96 Mbit/s

95th percentile per-packet one-way delay: 91.043 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 587.27 Mbit/s

95th percentile per-packet one-way delay: 84.176 ms

Loss rate: 0.61%

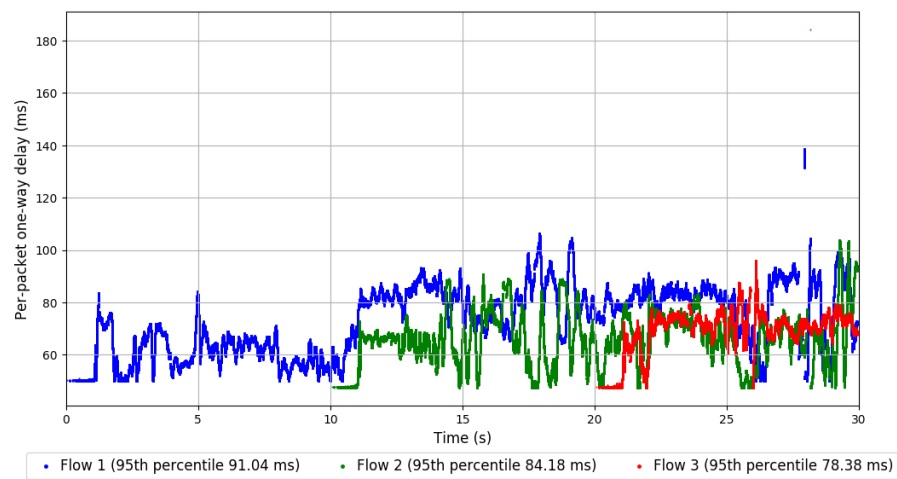
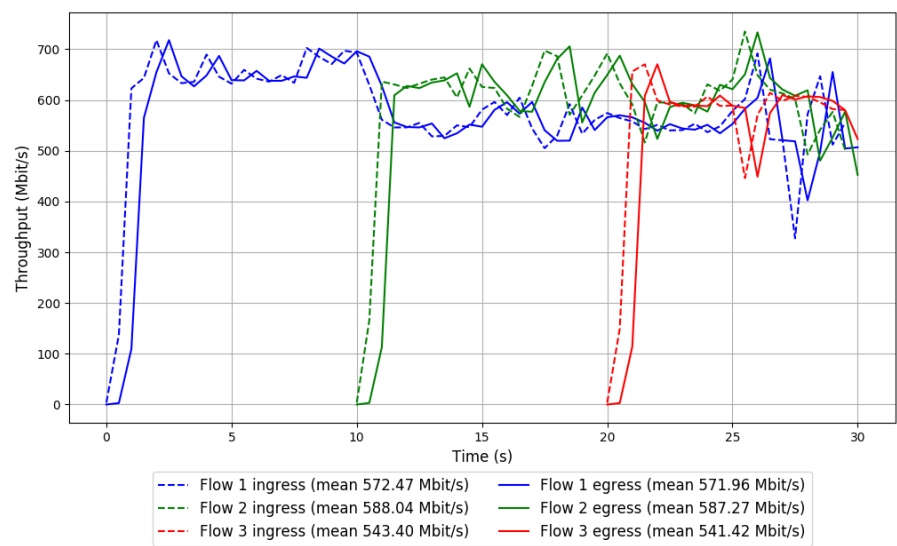
-- Flow 3:

Average throughput: 541.42 Mbit/s

95th percentile per-packet one-way delay: 78.381 ms

Loss rate: 1.31%

Run 3: Report of TCP Cubic — Data Link

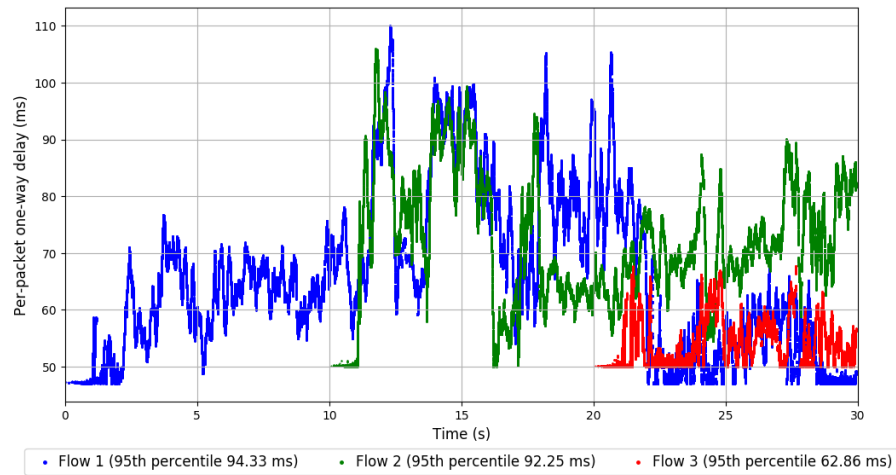
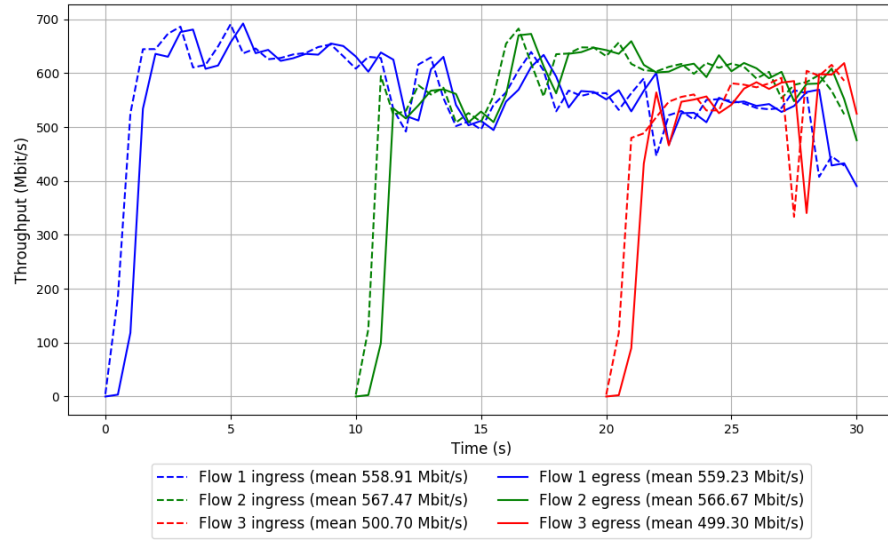


Run 4: Statistics of TCP Cubic

Start at: 2018-10-26 23:22:01  
End at: 2018-10-26 23:22:31  
Local clock offset: -0.084 ms  
Remote clock offset: -0.275 ms

# Below is generated by plot.py at 2018-10-27 00:59:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1100.80 Mbit/s  
95th percentile per-packet one-way delay: 92.106 ms  
Loss rate: 0.53%  
-- Flow 1:  
Average throughput: 559.23 Mbit/s  
95th percentile per-packet one-way delay: 94.331 ms  
Loss rate: 0.26%  
-- Flow 2:  
Average throughput: 566.67 Mbit/s  
95th percentile per-packet one-way delay: 92.255 ms  
Loss rate: 0.63%  
-- Flow 3:  
Average throughput: 499.30 Mbit/s  
95th percentile per-packet one-way delay: 62.862 ms  
Loss rate: 1.25%

# Run 4: Report of TCP Cubic — Data Link

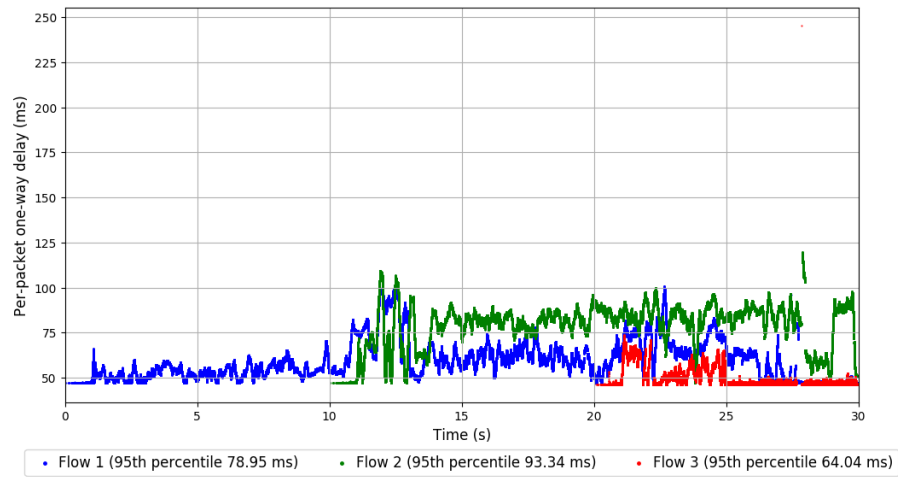
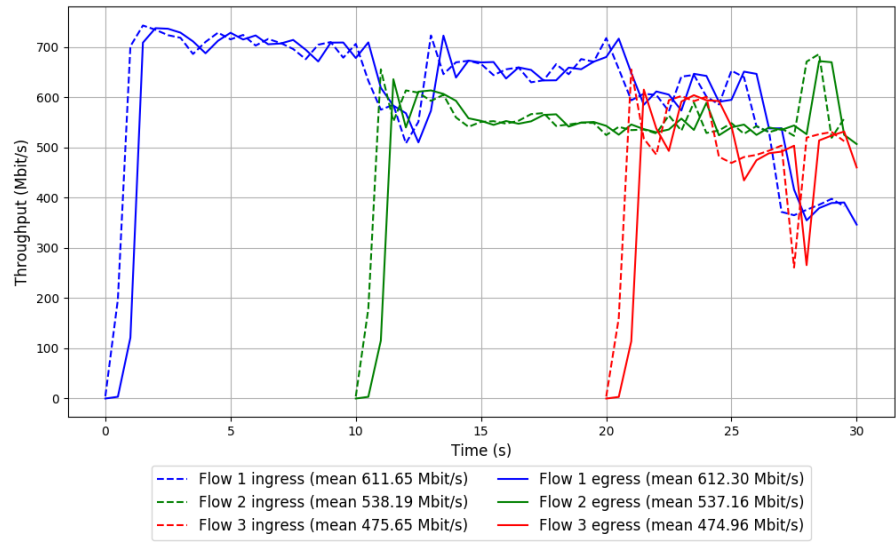


Run 5: Statistics of TCP Cubic

Start at: 2018-10-26 23:53:10  
End at: 2018-10-26 23:53:40  
Local clock offset: -0.083 ms  
Remote clock offset: 0.032 ms

# Below is generated by plot.py at 2018-10-27 00:59:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1126.49 Mbit/s  
95th percentile per-packet one-way delay: 89.730 ms  
Loss rate: 0.47%  
-- Flow 1:  
Average throughput: 612.30 Mbit/s  
95th percentile per-packet one-way delay: 78.946 ms  
Loss rate: 0.21%  
-- Flow 2:  
Average throughput: 537.16 Mbit/s  
95th percentile per-packet one-way delay: 93.339 ms  
Loss rate: 0.66%  
-- Flow 3:  
Average throughput: 474.96 Mbit/s  
95th percentile per-packet one-way delay: 64.037 ms  
Loss rate: 1.07%

# Run 5: Report of TCP Cubic — Data Link

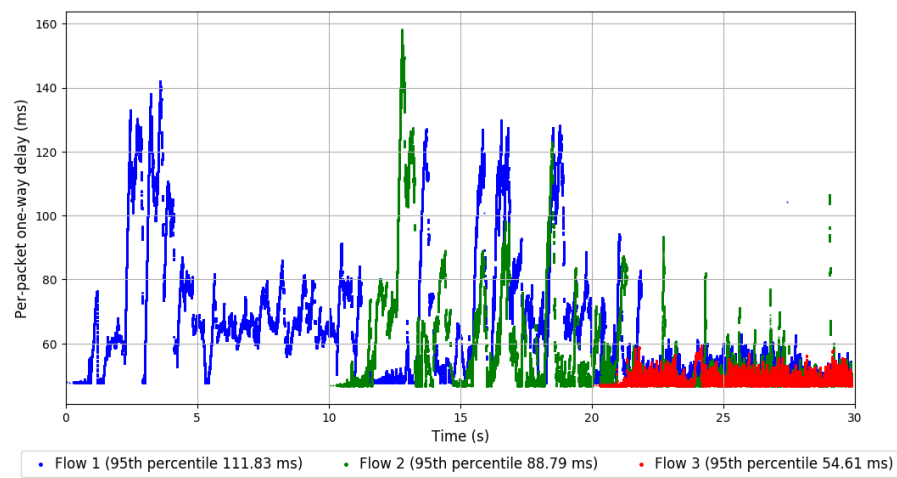
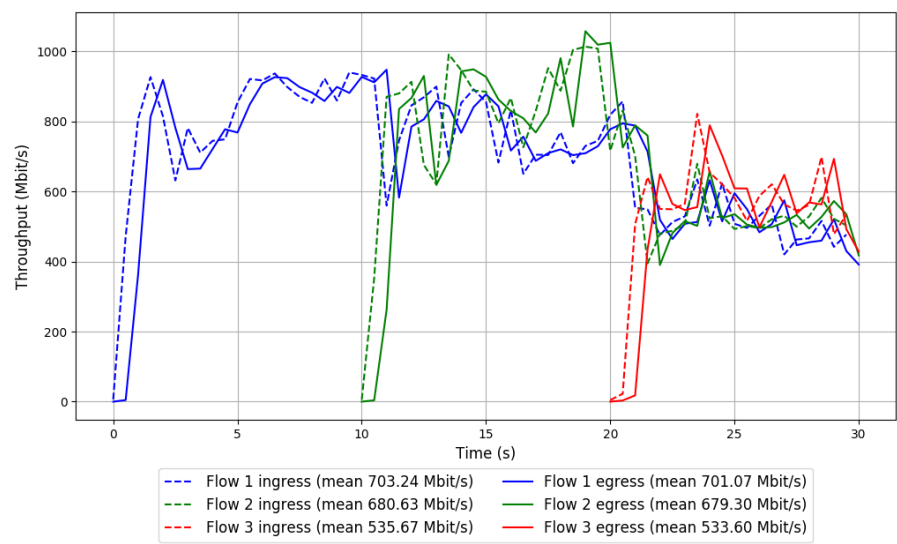


Run 1: Statistics of FillP

Start at: 2018-10-26 21:34:31  
End at: 2018-10-26 21:35:01  
Local clock offset: 0.281 ms  
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2018-10-27 01:08:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1327.97 Mbit/s  
95th percentile per-packet one-way delay: 105.983 ms  
Loss rate: 0.74%  
-- Flow 1:  
Average throughput: 701.07 Mbit/s  
95th percentile per-packet one-way delay: 111.835 ms  
Loss rate: 0.63%  
-- Flow 2:  
Average throughput: 679.30 Mbit/s  
95th percentile per-packet one-way delay: 88.787 ms  
Loss rate: 0.67%  
-- Flow 3:  
Average throughput: 533.60 Mbit/s  
95th percentile per-packet one-way delay: 54.609 ms  
Loss rate: 1.34%

Run 1: Report of FillP — Data Link



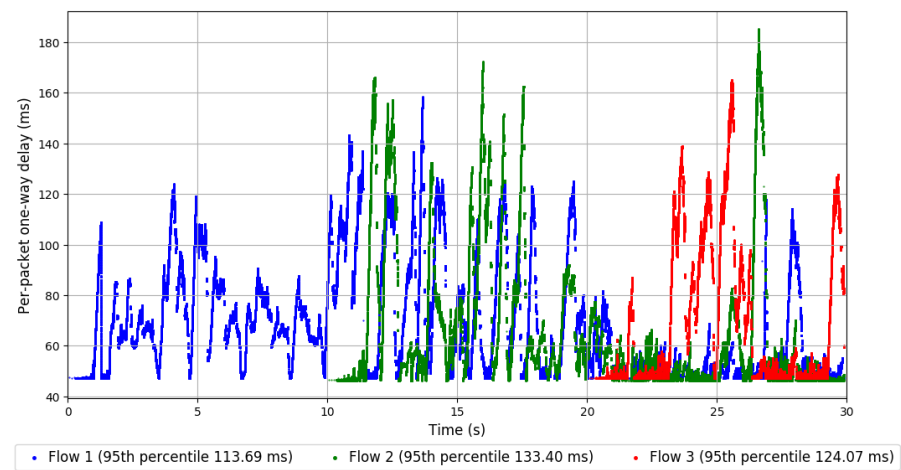
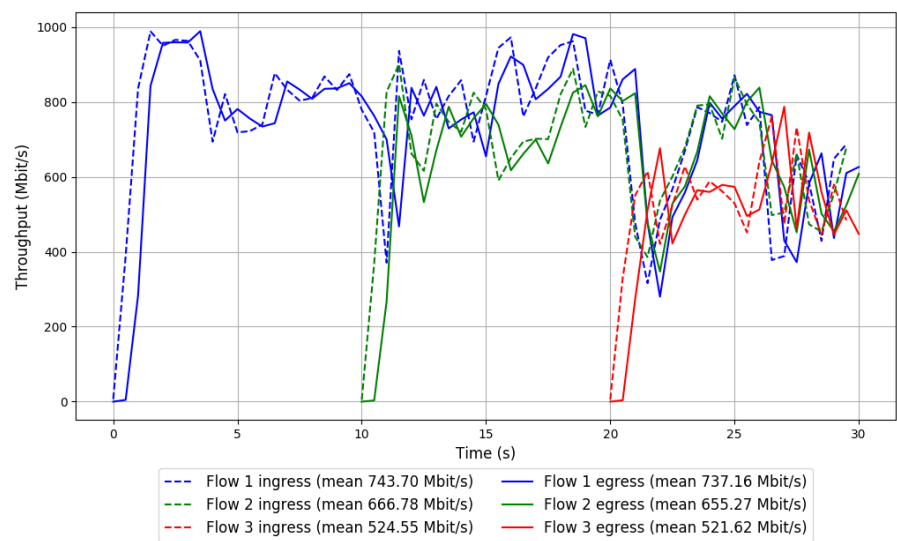


Run 2: Statistics of FillP

Start at: 2018-10-26 22:05:44  
End at: 2018-10-26 22:06:14  
Local clock offset: -0.152 ms  
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2018-10-27 01:24:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1344.09 Mbit/s  
95th percentile per-packet one-way delay: 118.172 ms  
Loss rate: 1.56%  
-- Flow 1:  
Average throughput: 737.16 Mbit/s  
95th percentile per-packet one-way delay: 113.695 ms  
Loss rate: 1.20%  
-- Flow 2:  
Average throughput: 655.27 Mbit/s  
95th percentile per-packet one-way delay: 133.398 ms  
Loss rate: 2.19%  
-- Flow 3:  
Average throughput: 521.62 Mbit/s  
95th percentile per-packet one-way delay: 124.074 ms  
Loss rate: 1.53%

Run 2: Report of FillP — Data Link

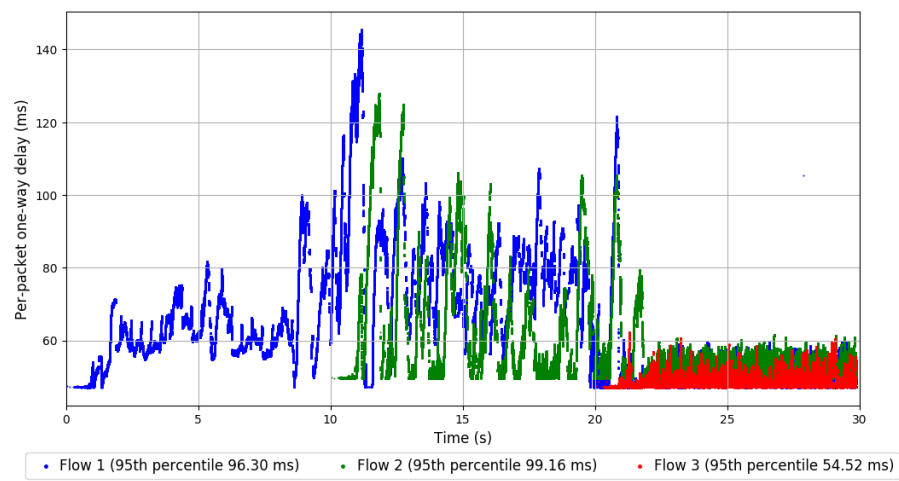
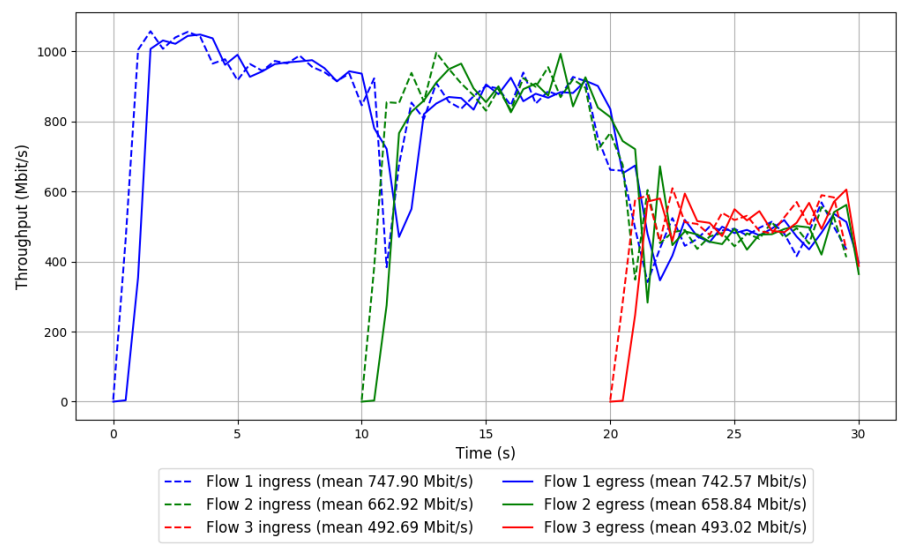


Run 3: Statistics of FillP

Start at: 2018-10-26 22:36:58  
End at: 2018-10-26 22:37:28  
Local clock offset: -0.229 ms  
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2018-10-27 01:26:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1342.47 Mbit/s  
95th percentile per-packet one-way delay: 95.849 ms  
Loss rate: 1.01%  
-- Flow 1:  
Average throughput: 742.57 Mbit/s  
95th percentile per-packet one-way delay: 96.300 ms  
Loss rate: 1.01%  
-- Flow 2:  
Average throughput: 658.84 Mbit/s  
95th percentile per-packet one-way delay: 99.156 ms  
Loss rate: 0.99%  
-- Flow 3:  
Average throughput: 493.02 Mbit/s  
95th percentile per-packet one-way delay: 54.521 ms  
Loss rate: 1.09%

Run 3: Report of FillP — Data Link

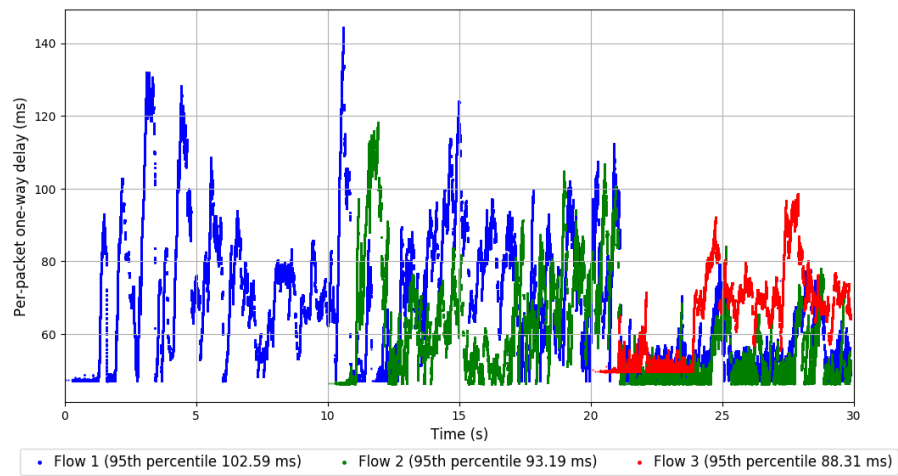
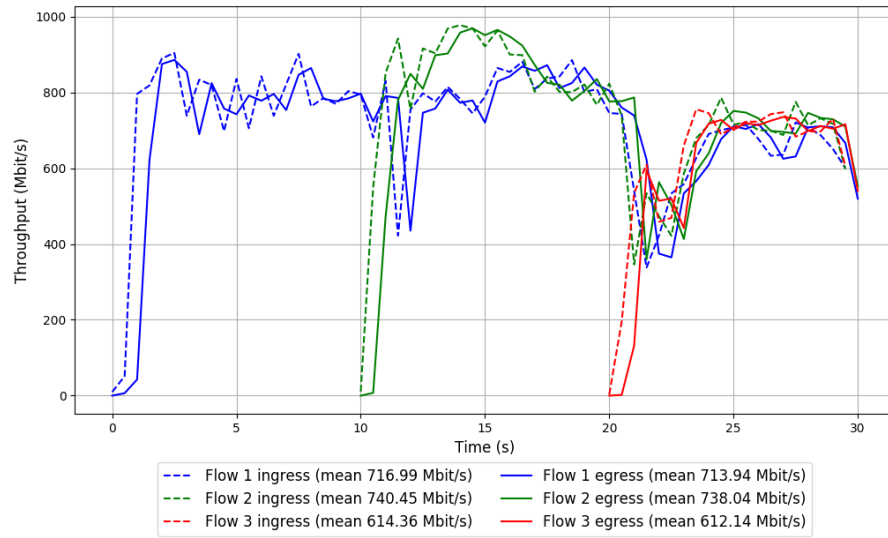


Run 4: Statistics of FillP

Start at: 2018-10-26 23:08:02  
End at: 2018-10-26 23:08:32  
Local clock offset: -0.133 ms  
Remote clock offset: -0.225 ms

# Below is generated by plot.py at 2018-10-27 01:29:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1405.82 Mbit/s  
95th percentile per-packet one-way delay: 97.123 ms  
Loss rate: 0.85%  
-- Flow 1:  
Average throughput: 713.94 Mbit/s  
95th percentile per-packet one-way delay: 102.591 ms  
Loss rate: 0.74%  
-- Flow 2:  
Average throughput: 738.04 Mbit/s  
95th percentile per-packet one-way delay: 93.187 ms  
Loss rate: 0.80%  
-- Flow 3:  
Average throughput: 612.14 Mbit/s  
95th percentile per-packet one-way delay: 88.309 ms  
Loss rate: 1.36%

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

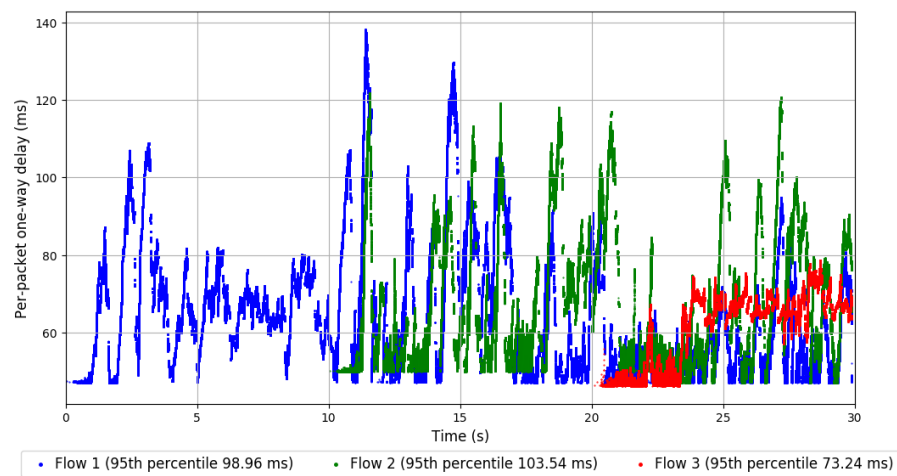
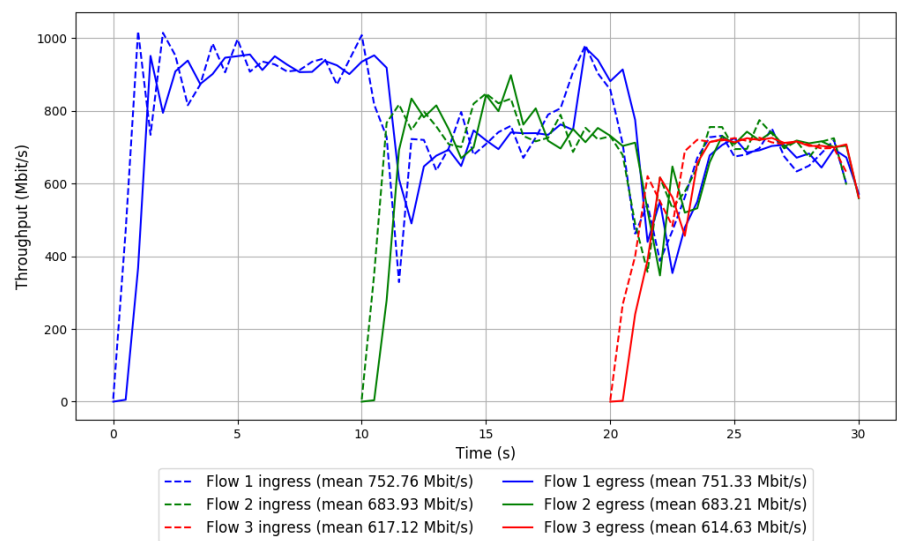


Run 5: Statistics of FillP

Start at: 2018-10-26 23:39:17  
End at: 2018-10-26 23:39:47  
Local clock offset: -0.098 ms  
Remote clock offset: -0.116 ms

# Below is generated by plot.py at 2018-10-27 01:30:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1407.12 Mbit/s  
95th percentile per-packet one-way delay: 99.286 ms  
Loss rate: 0.65%  
-- Flow 1:  
Average throughput: 751.33 Mbit/s  
95th percentile per-packet one-way delay: 98.961 ms  
Loss rate: 0.50%  
-- Flow 2:  
Average throughput: 683.21 Mbit/s  
95th percentile per-packet one-way delay: 103.544 ms  
Loss rate: 0.60%  
-- Flow 3:  
Average throughput: 614.63 Mbit/s  
95th percentile per-packet one-way delay: 73.238 ms  
Loss rate: 1.32%

Run 5: Report of FillP — Data Link



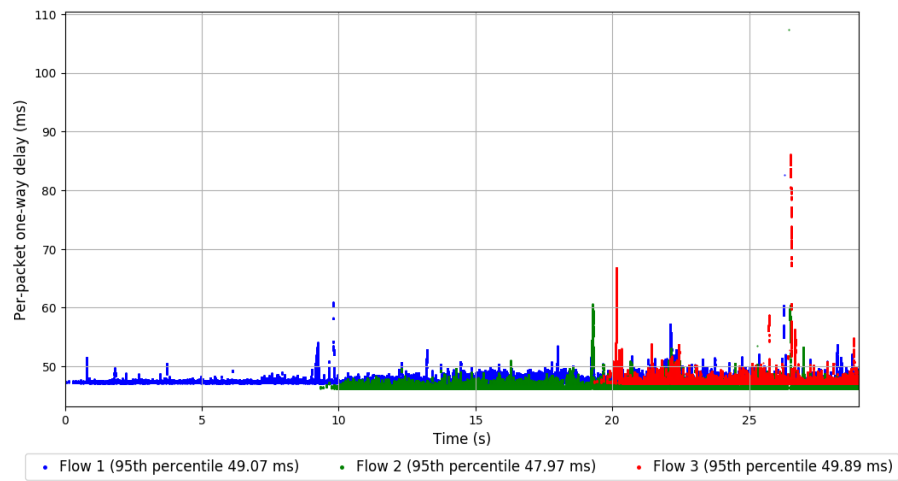
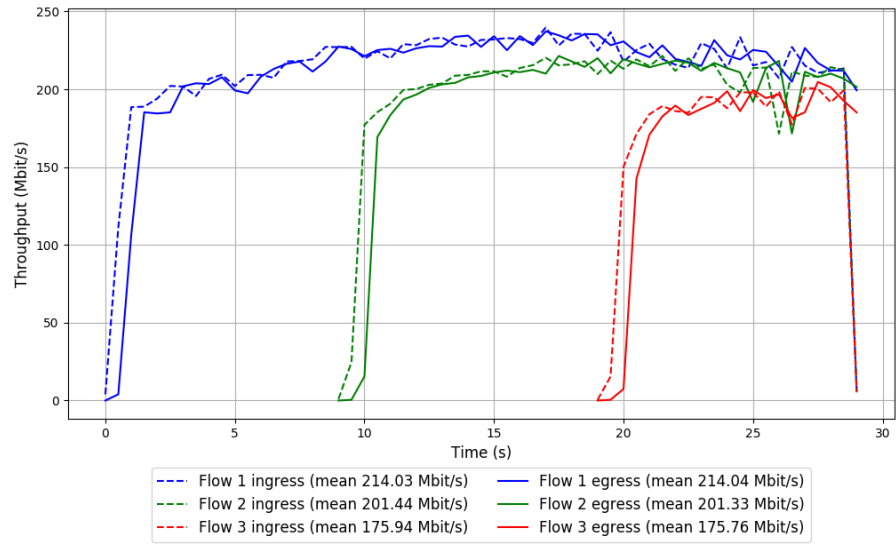


```
Run 1: Statistics of Indigo

Start at: 2018-10-26 21:40:41
End at: 2018-10-26 21:41:11
Local clock offset: -0.079 ms
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2018-10-27 01:30:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 409.31 Mbit/s
95th percentile per-packet one-way delay: 48.949 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 214.04 Mbit/s
95th percentile per-packet one-way delay: 49.067 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 201.33 Mbit/s
95th percentile per-packet one-way delay: 47.965 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 175.76 Mbit/s
95th percentile per-packet one-way delay: 49.892 ms
Loss rate: 1.07%
```

## Run 1: Report of Indigo — Data Link

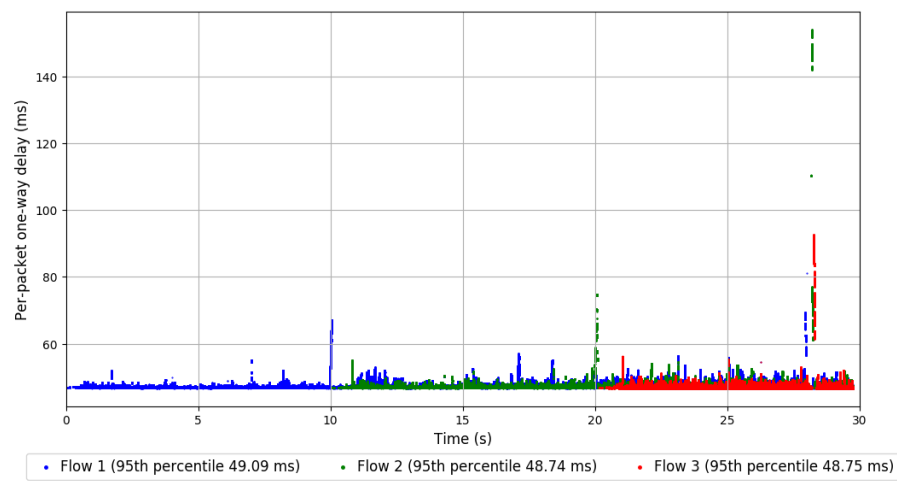
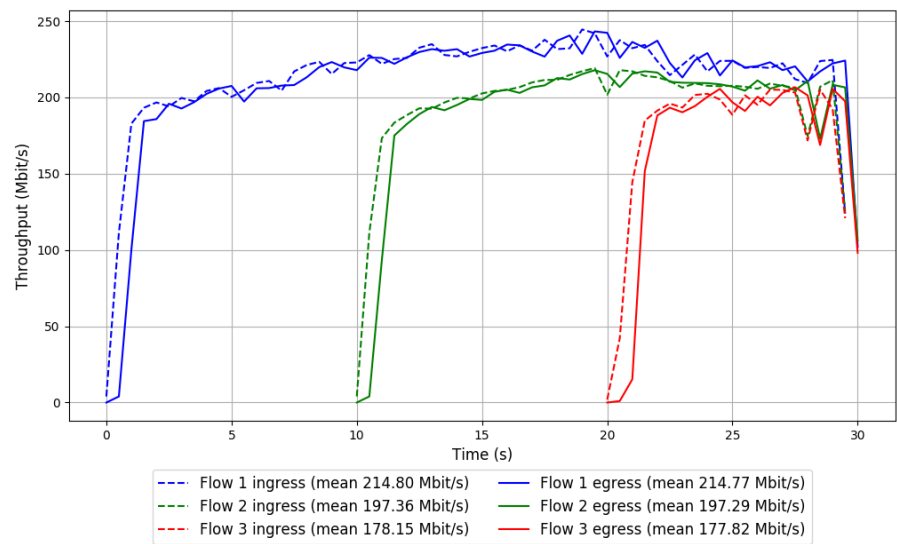


Run 2: Statistics of Indigo

Start at: 2018-10-26 22:11:54  
End at: 2018-10-26 22:12:24  
Local clock offset: -0.532 ms  
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2018-10-27 01:30:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 402.85 Mbit/s  
95th percentile per-packet one-way delay: 48.933 ms  
Loss rate: 0.52%  
-- Flow 1:  
Average throughput: 214.77 Mbit/s  
95th percentile per-packet one-way delay: 49.088 ms  
Loss rate: 0.34%  
-- Flow 2:  
Average throughput: 197.29 Mbit/s  
95th percentile per-packet one-way delay: 48.743 ms  
Loss rate: 0.53%  
-- Flow 3:  
Average throughput: 177.82 Mbit/s  
95th percentile per-packet one-way delay: 48.747 ms  
Loss rate: 1.18%

Run 2: Report of Indigo — Data Link

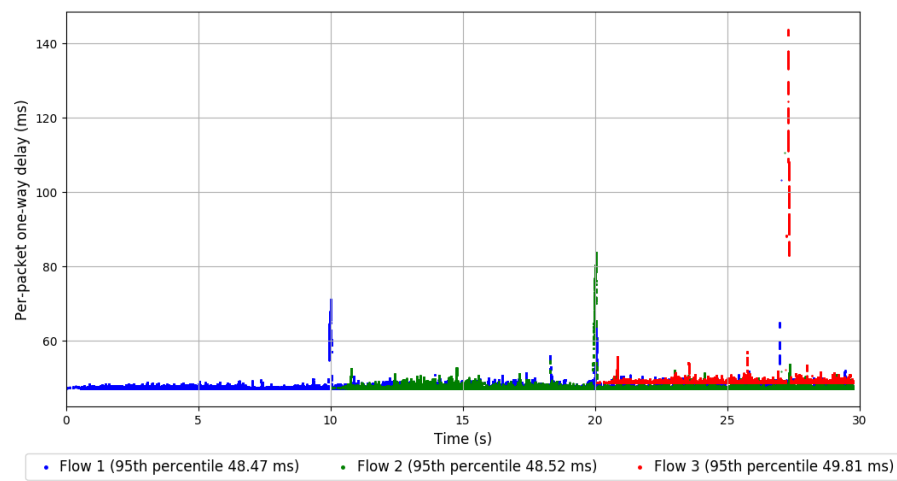
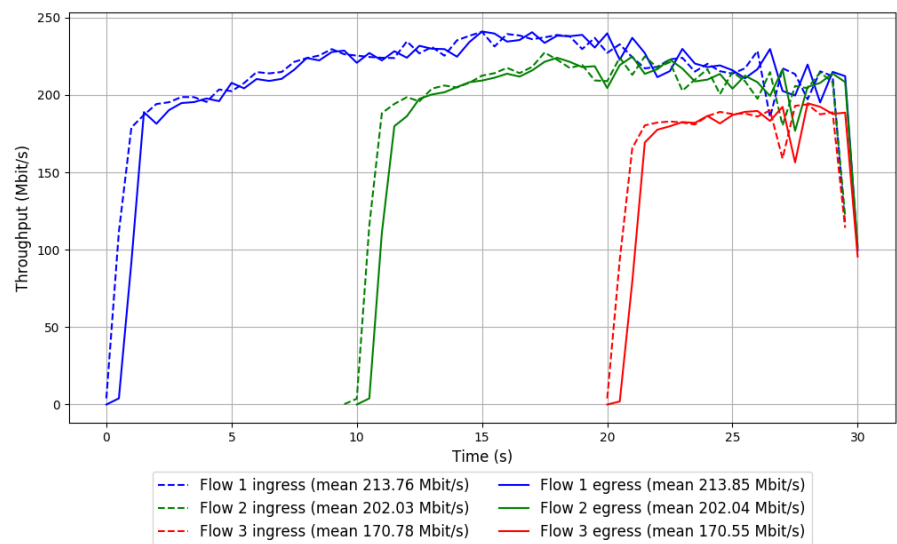


Run 3: Statistics of Indigo

Start at: 2018-10-26 22:43:12  
End at: 2018-10-26 22:43:42  
Local clock offset: -0.189 ms  
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2018-10-27 01:30:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 403.46 Mbit/s  
95th percentile per-packet one-way delay: 48.937 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 213.85 Mbit/s  
95th percentile per-packet one-way delay: 48.470 ms  
Loss rate: 0.28%  
-- Flow 2:  
Average throughput: 202.04 Mbit/s  
95th percentile per-packet one-way delay: 48.516 ms  
Loss rate: 0.47%  
-- Flow 3:  
Average throughput: 170.55 Mbit/s  
95th percentile per-packet one-way delay: 49.808 ms  
Loss rate: 1.14%

Run 3: Report of Indigo — Data Link

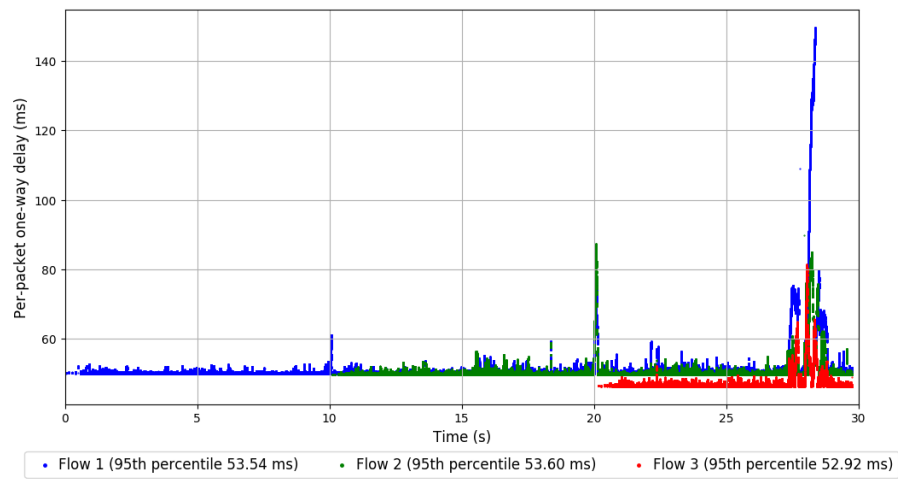
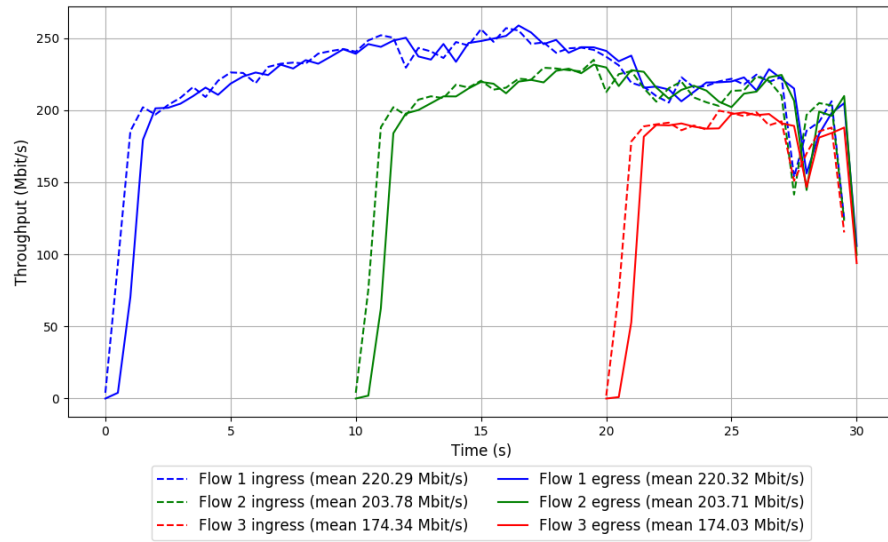


Run 4: Statistics of Indigo

Start at: 2018-10-26 23:14:18  
End at: 2018-10-26 23:14:48  
Local clock offset: -0.122 ms  
Remote clock offset: -0.265 ms

# Below is generated by plot.py at 2018-10-27 01:30:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 411.20 Mbit/s  
95th percentile per-packet one-way delay: 53.499 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 220.32 Mbit/s  
95th percentile per-packet one-way delay: 53.544 ms  
Loss rate: 0.31%  
-- Flow 2:  
Average throughput: 203.71 Mbit/s  
95th percentile per-packet one-way delay: 53.596 ms  
Loss rate: 0.52%  
-- Flow 3:  
Average throughput: 174.03 Mbit/s  
95th percentile per-packet one-way delay: 52.921 ms  
Loss rate: 1.11%

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





Run 5: Statistics of Indigo

Start at: 2018-10-26 23:45:31

End at: 2018-10-26 23:46:01

Local clock offset: -0.051 ms

Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2018-10-27 01:30:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 411.47 Mbit/s

95th percentile per-packet one-way delay: 48.588 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 214.16 Mbit/s

95th percentile per-packet one-way delay: 48.892 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 210.28 Mbit/s

95th percentile per-packet one-way delay: 48.113 ms

Loss rate: 0.50%

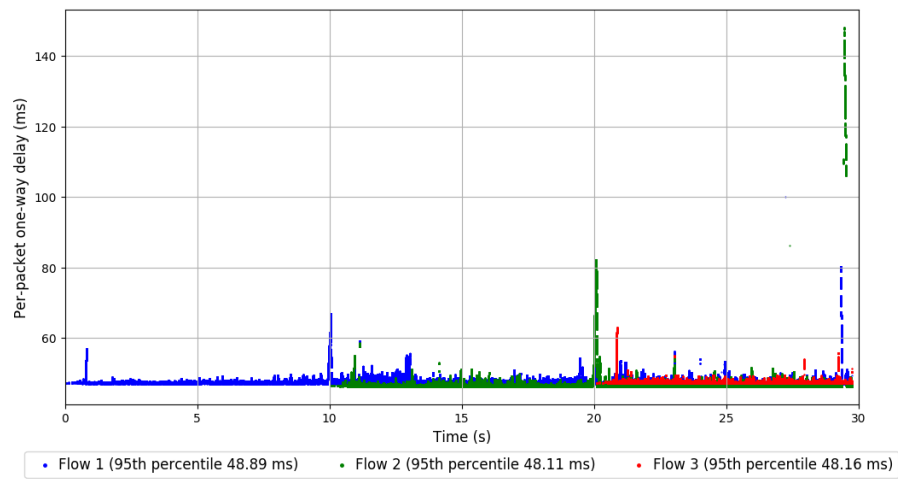
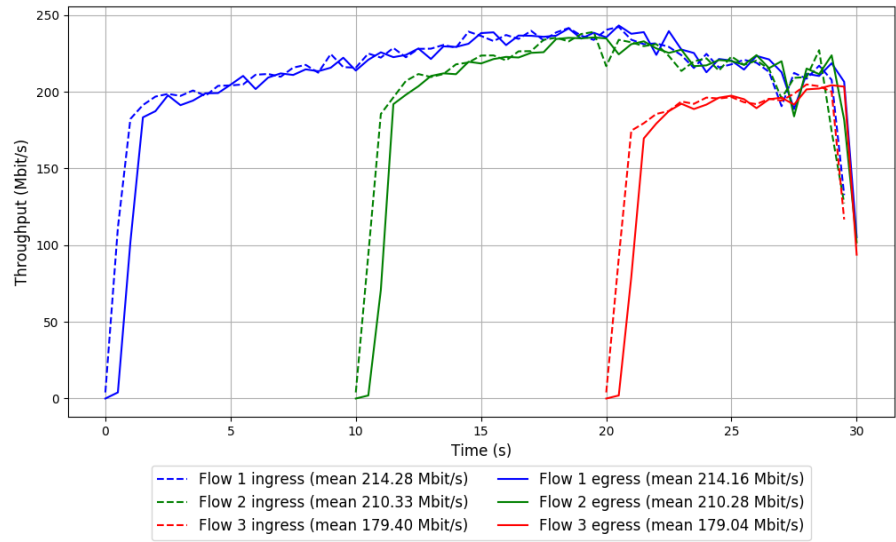
-- Flow 3:

Average throughput: 179.04 Mbit/s

95th percentile per-packet one-way delay: 48.158 ms

Loss rate: 1.13%

## Run 5: Report of Indigo — Data Link

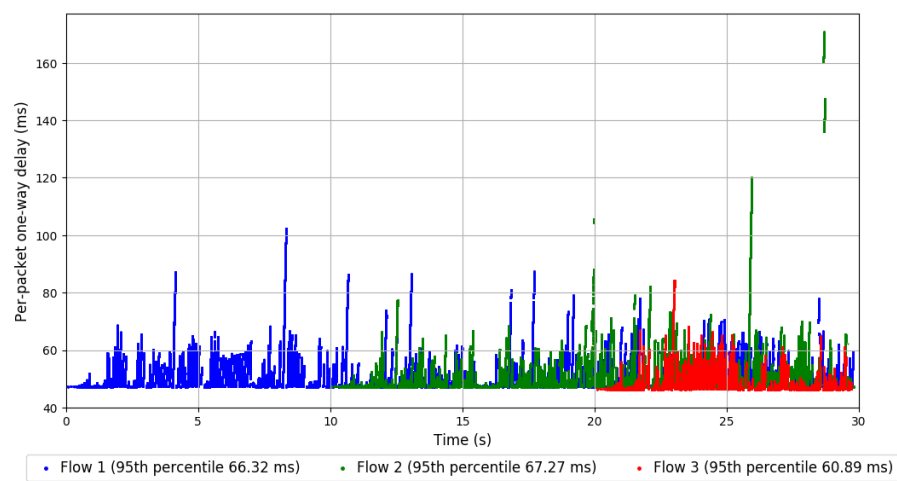
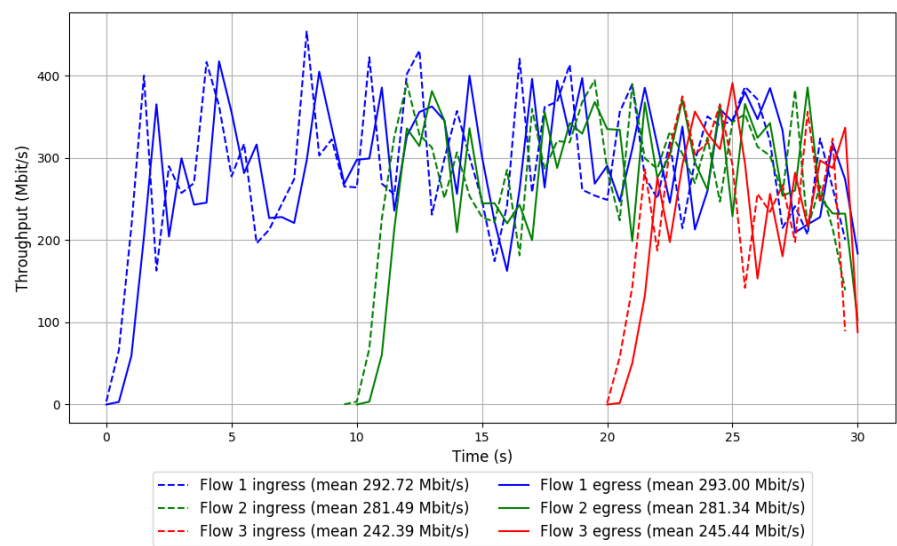


Run 1: Statistics of Indigo-96d2da3

Start at: 2018-10-26 21:50:21  
End at: 2018-10-26 21:50:51  
Local clock offset: -0.092 ms  
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2018-10-27 01:30:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 559.35 Mbit/s  
95th percentile per-packet one-way delay: 65.738 ms  
Loss rate: 0.36%  
-- Flow 1:  
Average throughput: 293.00 Mbit/s  
95th percentile per-packet one-way delay: 66.318 ms  
Loss rate: 0.22%  
-- Flow 2:  
Average throughput: 281.34 Mbit/s  
95th percentile per-packet one-way delay: 67.265 ms  
Loss rate: 0.50%  
-- Flow 3:  
Average throughput: 245.44 Mbit/s  
95th percentile per-packet one-way delay: 60.894 ms  
Loss rate: 0.53%

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

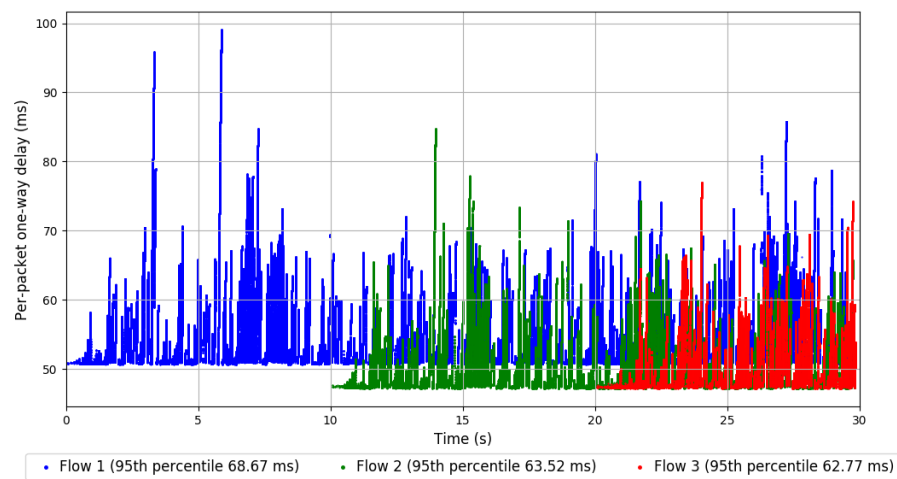
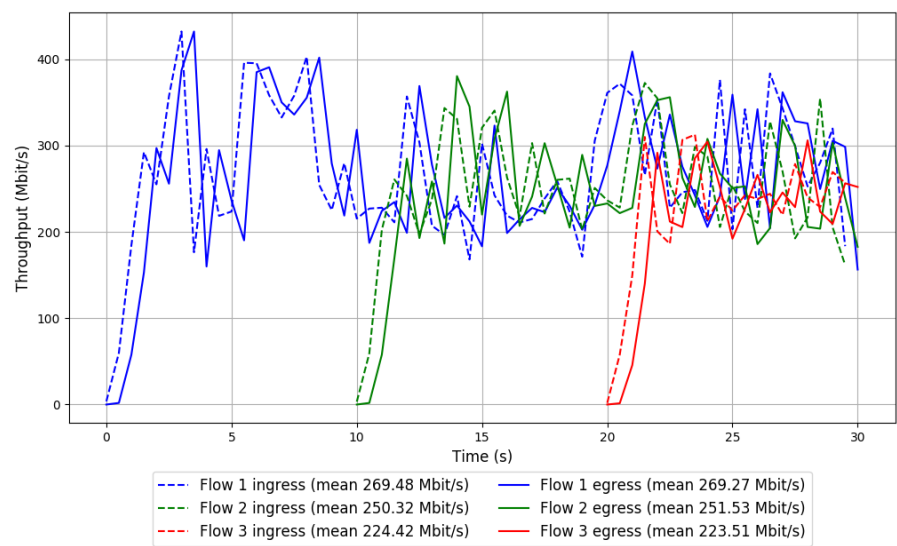


Run 2: Statistics of Indigo-96d2da3

Start at: 2018-10-26 22:21:38  
End at: 2018-10-26 22:22:08  
Local clock offset: -0.142 ms  
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2018-10-27 01:30:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 509.08 Mbit/s  
95th percentile per-packet one-way delay: 66.677 ms  
Loss rate: 0.41%  
-- Flow 1:  
Average throughput: 269.27 Mbit/s  
95th percentile per-packet one-way delay: 68.667 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 251.53 Mbit/s  
95th percentile per-packet one-way delay: 63.525 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 223.51 Mbit/s  
95th percentile per-packet one-way delay: 62.772 ms  
Loss rate: 1.24%

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

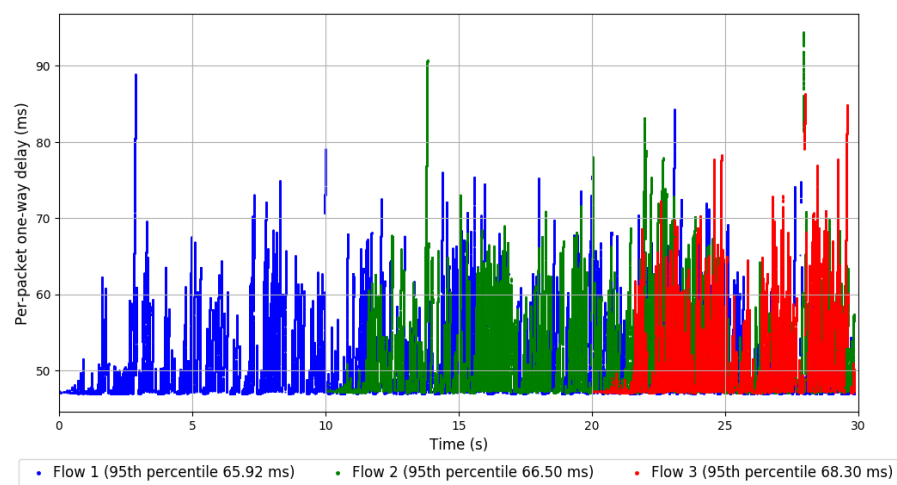
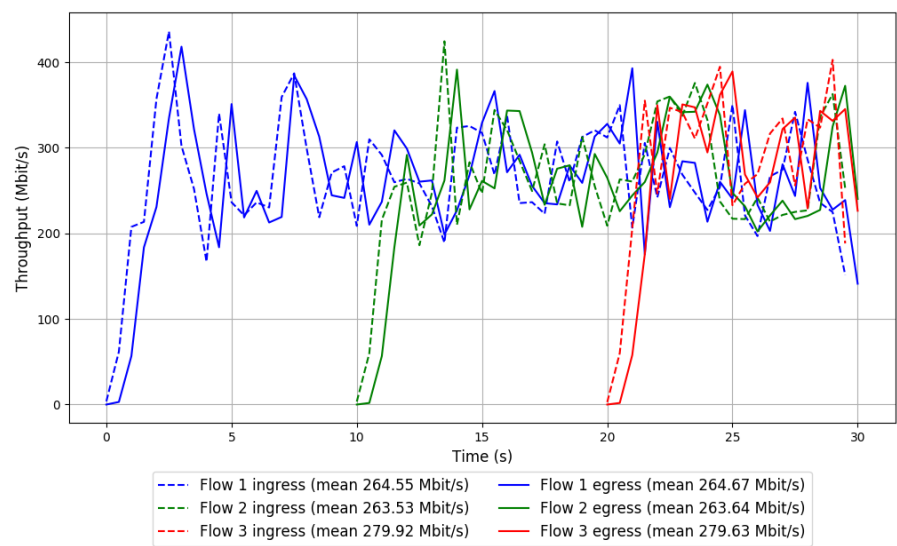


Run 3: Statistics of Indigo-96d2da3

Start at: 2018-10-26 22:52:51  
End at: 2018-10-26 22:53:21  
Local clock offset: -0.207 ms  
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2018-10-27 01:32:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 531.19 Mbit/s  
95th percentile per-packet one-way delay: 66.590 ms  
Loss rate: 0.48%  
-- Flow 1:  
Average throughput: 264.67 Mbit/s  
95th percentile per-packet one-way delay: 65.922 ms  
Loss rate: 0.27%  
-- Flow 2:  
Average throughput: 263.64 Mbit/s  
95th percentile per-packet one-way delay: 66.497 ms  
Loss rate: 0.47%  
-- Flow 3:  
Average throughput: 279.63 Mbit/s  
95th percentile per-packet one-way delay: 68.296 ms  
Loss rate: 1.08%

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



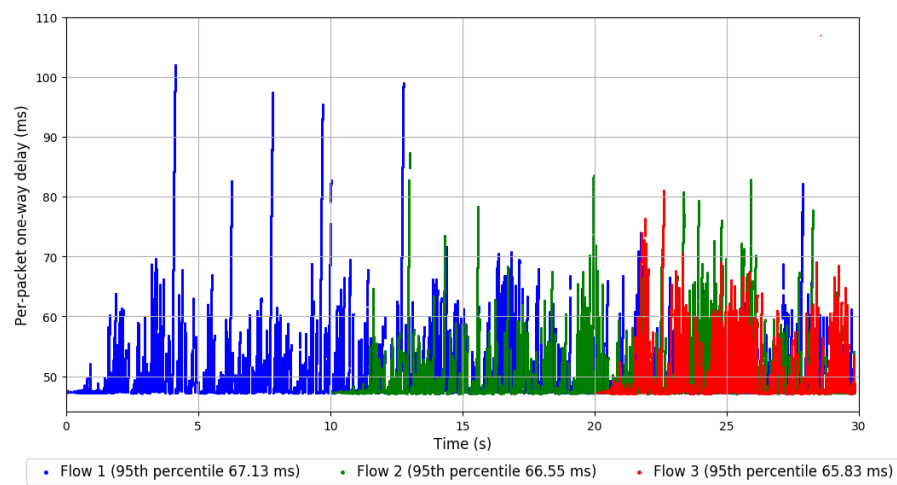
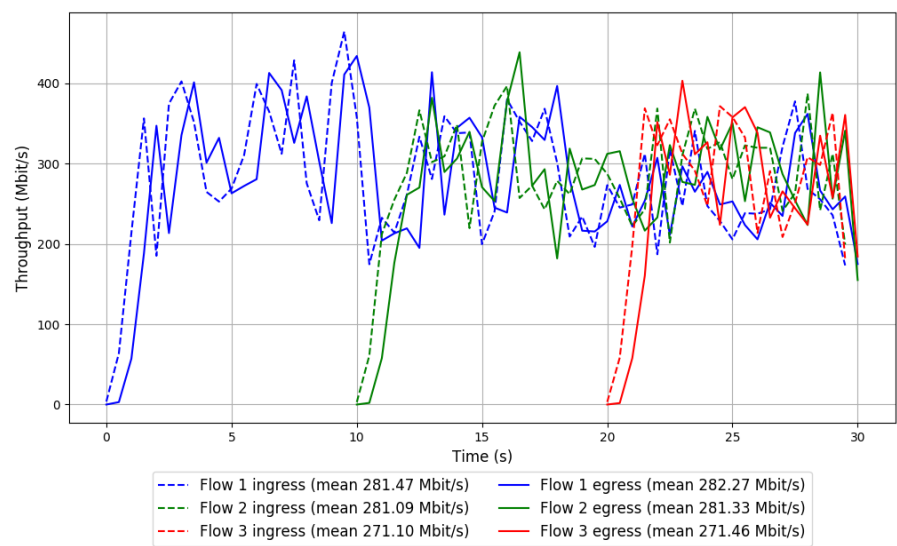


Run 4: Statistics of Indigo-96d2da3

Start at: 2018-10-26 23:24:04  
End at: 2018-10-26 23:24:34  
Local clock offset: -0.07 ms  
Remote clock offset: -0.253 ms

# Below is generated by plot.py at 2018-10-27 01:33:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 557.59 Mbit/s  
95th percentile per-packet one-way delay: 66.669 ms  
Loss rate: 0.33%  
-- Flow 1:  
Average throughput: 282.27 Mbit/s  
95th percentile per-packet one-way delay: 67.134 ms  
Loss rate: 0.15%  
-- Flow 2:  
Average throughput: 281.33 Mbit/s  
95th percentile per-packet one-way delay: 66.553 ms  
Loss rate: 0.40%  
-- Flow 3:  
Average throughput: 271.46 Mbit/s  
95th percentile per-packet one-way delay: 65.833 ms  
Loss rate: 0.76%

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



Run 5: Statistics of Indigo-96d2da3

Start at: 2018-10-26 23:55:15

End at: 2018-10-26 23:55:45

Local clock offset: -0.078 ms

Remote clock offset: 0.056 ms

# Below is generated by plot.py at 2018-10-27 01:33:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 539.65 Mbit/s

95th percentile per-packet one-way delay: 67.053 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 277.13 Mbit/s

95th percentile per-packet one-way delay: 67.849 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 266.33 Mbit/s

95th percentile per-packet one-way delay: 67.000 ms

Loss rate: 0.37%

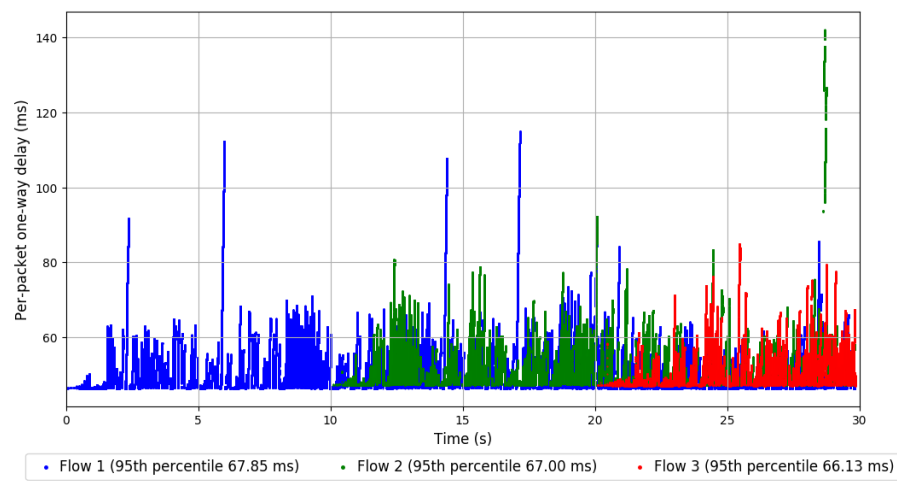
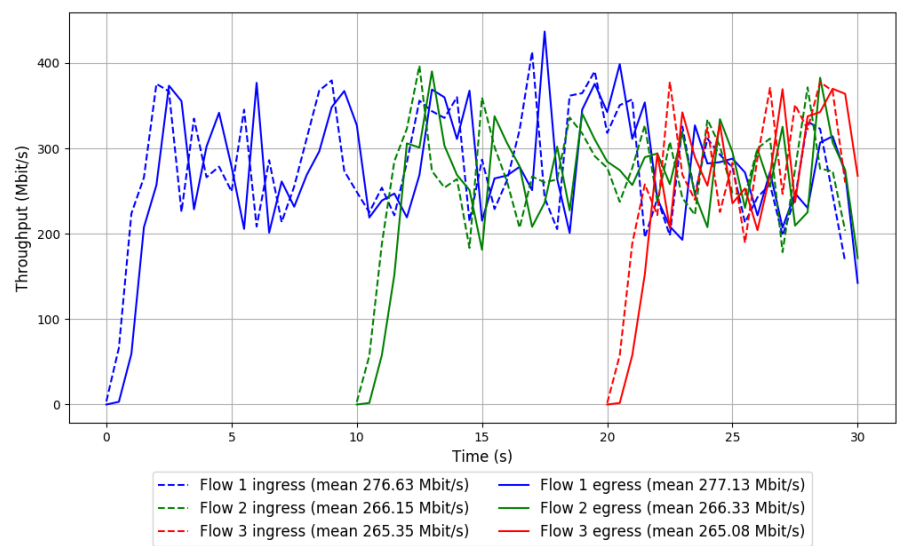
-- Flow 3:

Average throughput: 265.08 Mbit/s

95th percentile per-packet one-way delay: 66.126 ms

Loss rate: 0.83%

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

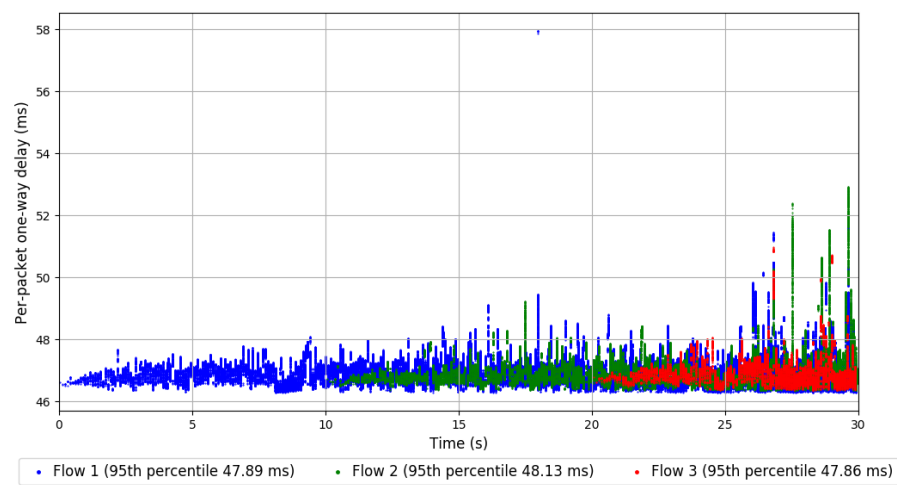
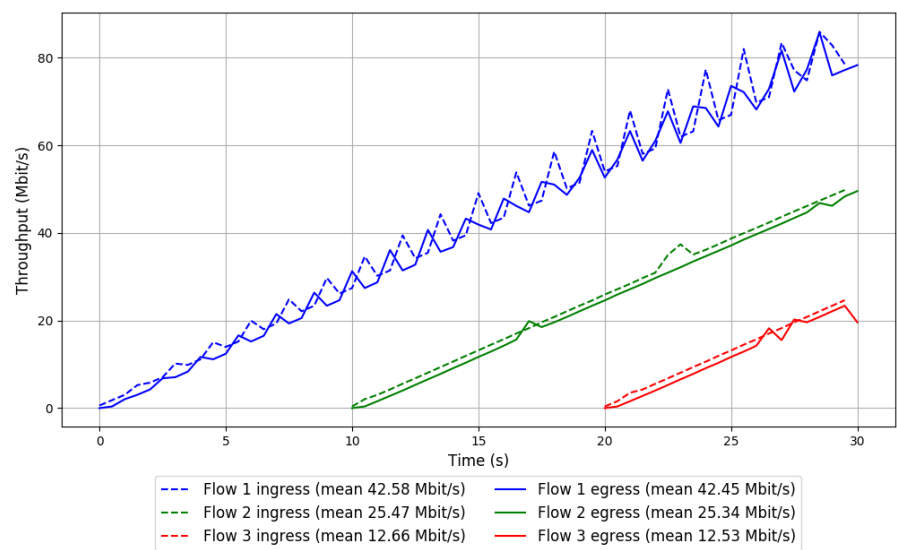


```
Run 1: Statistics of LEDBAT

Start at: 2018-10-26 21:42:28
End at: 2018-10-26 21:42:58
Local clock offset: -0.054 ms
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2018-10-27 01:33:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.40 Mbit/s
95th percentile per-packet one-way delay: 47.927 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 42.45 Mbit/s
95th percentile per-packet one-way delay: 47.891 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 25.34 Mbit/s
95th percentile per-packet one-way delay: 48.129 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 12.53 Mbit/s
95th percentile per-packet one-way delay: 47.856 ms
Loss rate: 2.01%
```

Run 1: Report of LEDBAT — Data Link

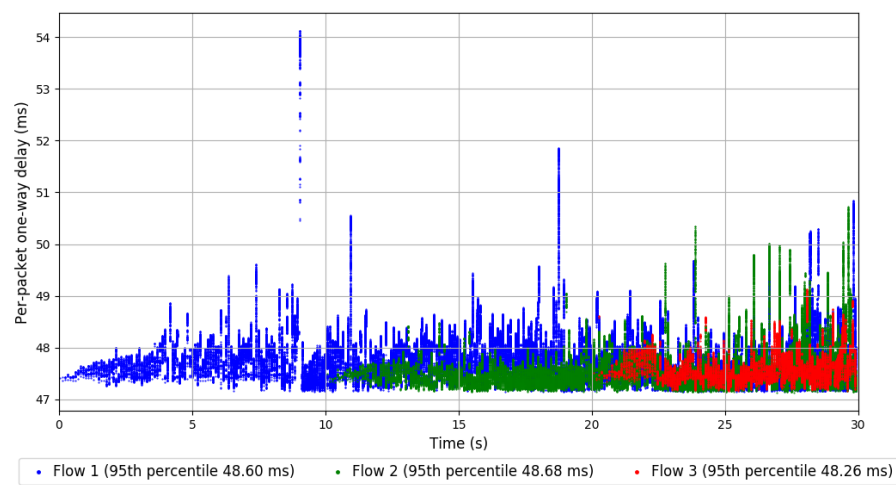
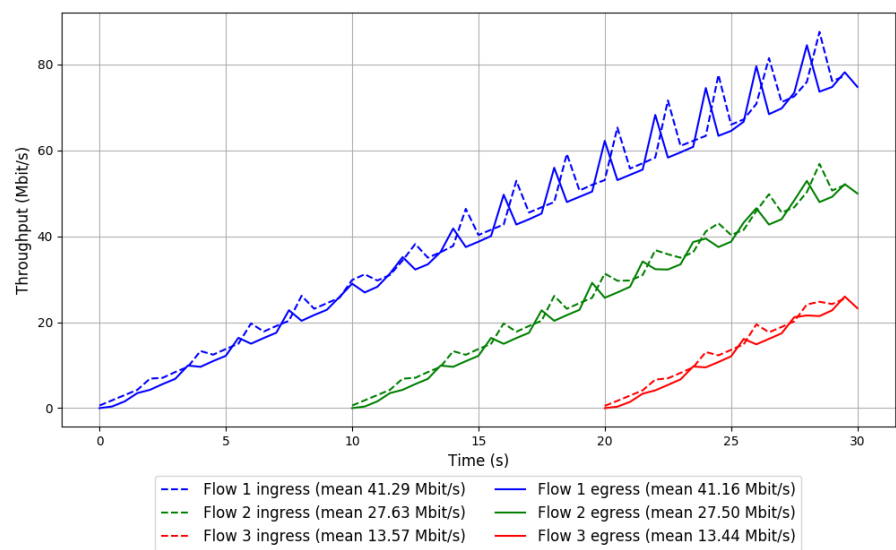


Run 2: Statistics of LEDBAT

Start at: 2018-10-26 22:13:42  
End at: 2018-10-26 22:14:12  
Local clock offset: -0.161 ms  
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2018-10-27 01:33:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 63.86 Mbit/s  
95th percentile per-packet one-way delay: 48.589 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 41.16 Mbit/s  
95th percentile per-packet one-way delay: 48.602 ms  
Loss rate: 0.63%  
-- Flow 2:  
Average throughput: 27.50 Mbit/s  
95th percentile per-packet one-way delay: 48.677 ms  
Loss rate: 0.95%  
-- Flow 3:  
Average throughput: 13.44 Mbit/s  
95th percentile per-packet one-way delay: 48.260 ms  
Loss rate: 1.94%

Run 2: Report of LEDBAT — Data Link



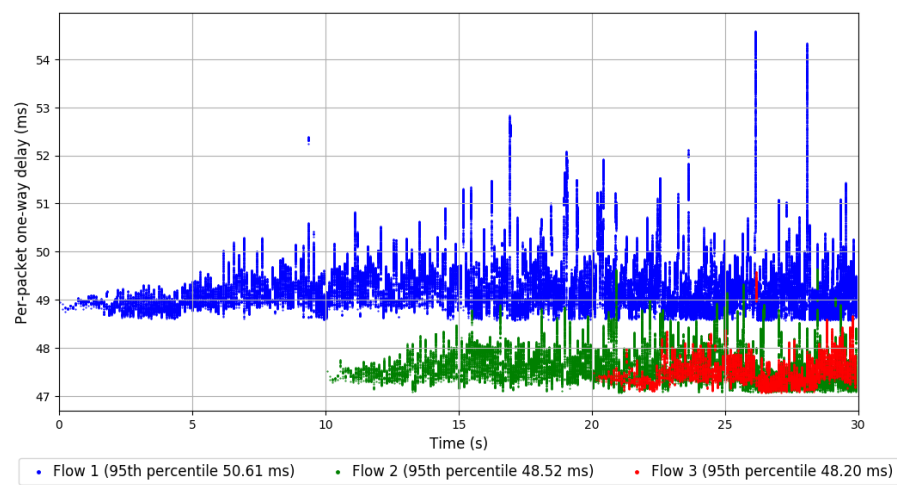
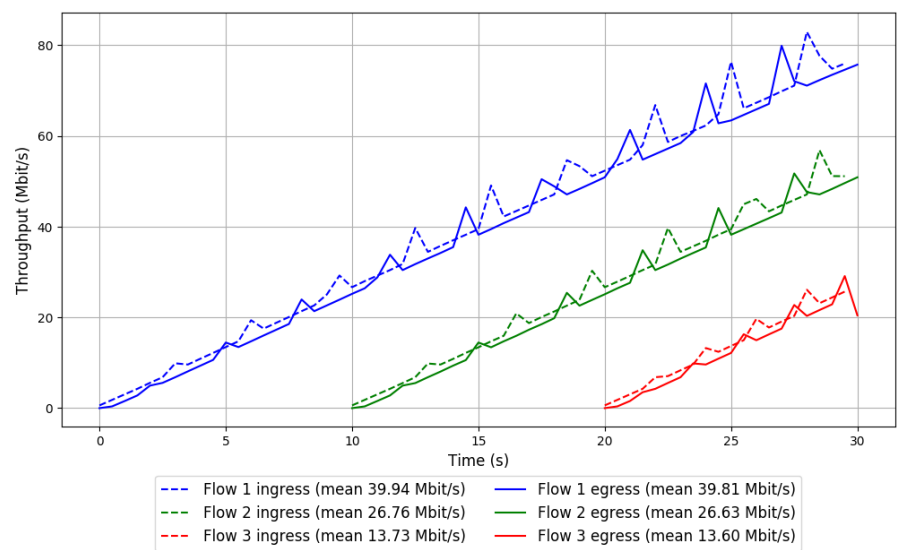


Run 3: Statistics of LEDBAT

Start at: 2018-10-26 22:45:00  
End at: 2018-10-26 22:45:30  
Local clock offset: -0.198 ms  
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2018-10-27 01:33:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 61.97 Mbit/s  
95th percentile per-packet one-way delay: 50.238 ms  
Loss rate: 0.83%  
-- Flow 1:  
Average throughput: 39.81 Mbit/s  
95th percentile per-packet one-way delay: 50.613 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 26.63 Mbit/s  
95th percentile per-packet one-way delay: 48.517 ms  
Loss rate: 0.97%  
-- Flow 3:  
Average throughput: 13.60 Mbit/s  
95th percentile per-packet one-way delay: 48.198 ms  
Loss rate: 1.92%

Run 3: Report of LEDBAT — Data Link

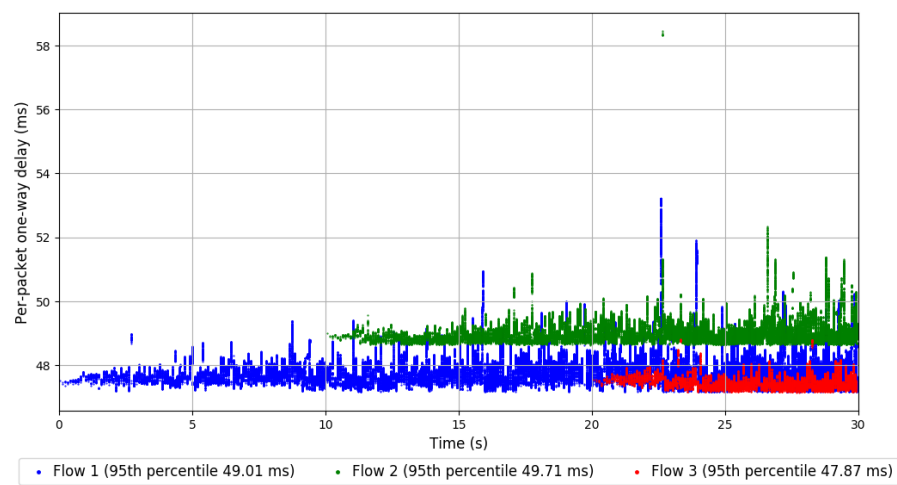
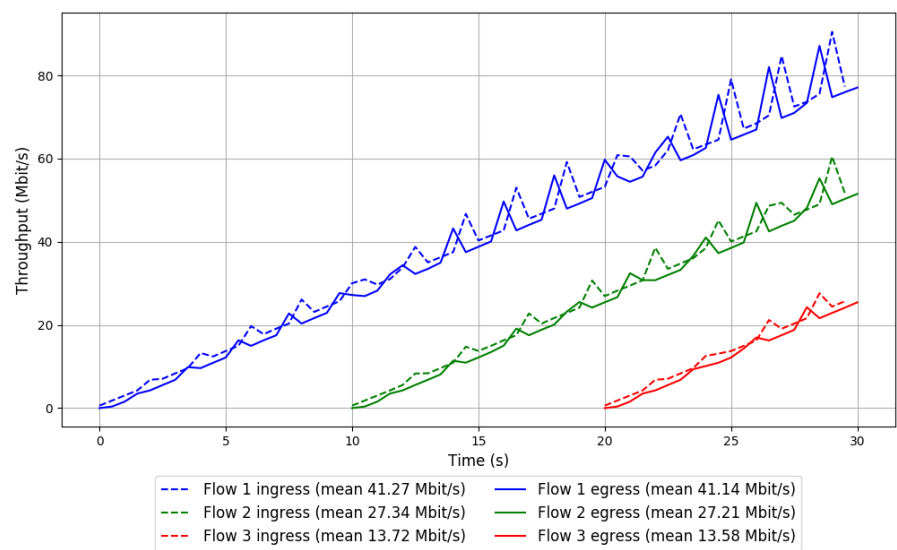


Run 4: Statistics of LEDBAT

Start at: 2018-10-26 23:16:11  
End at: 2018-10-26 23:16:41  
Local clock offset: -0.097 ms  
Remote clock offset: -0.275 ms

# Below is generated by plot.py at 2018-10-27 01:33:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 63.70 Mbit/s  
95th percentile per-packet one-way delay: 49.383 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 41.14 Mbit/s  
95th percentile per-packet one-way delay: 49.012 ms  
Loss rate: 0.63%  
-- Flow 2:  
Average throughput: 27.21 Mbit/s  
95th percentile per-packet one-way delay: 49.708 ms  
Loss rate: 0.96%  
-- Flow 3:  
Average throughput: 13.58 Mbit/s  
95th percentile per-packet one-way delay: 47.866 ms  
Loss rate: 1.92%

Run 4: Report of LEDBAT — Data Link

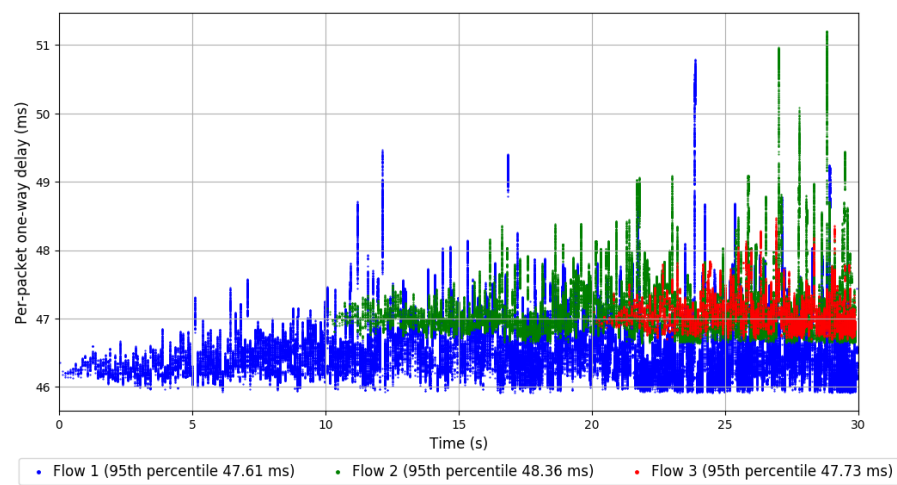
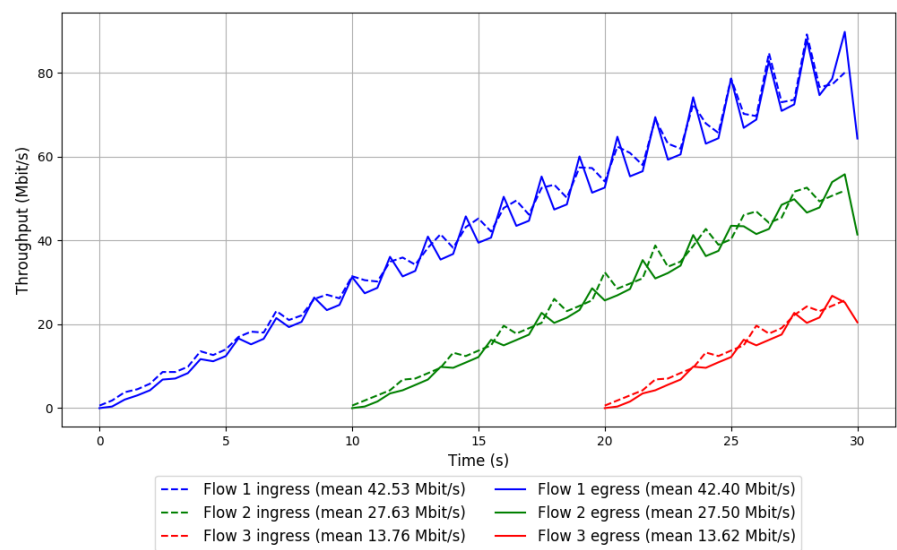


Run 5: Statistics of LEDBAT

Start at: 2018-10-26 23:47:21  
End at: 2018-10-26 23:47:51  
Local clock offset: -0.422 ms  
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2018-10-27 01:33:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 65.09 Mbit/s  
95th percentile per-packet one-way delay: 47.854 ms  
Loss rate: 0.80%  
-- Flow 1:  
Average throughput: 42.40 Mbit/s  
95th percentile per-packet one-way delay: 47.608 ms  
Loss rate: 0.62%  
-- Flow 2:  
Average throughput: 27.50 Mbit/s  
95th percentile per-packet one-way delay: 48.360 ms  
Loss rate: 0.95%  
-- Flow 3:  
Average throughput: 13.62 Mbit/s  
95th percentile per-packet one-way delay: 47.731 ms  
Loss rate: 1.92%

Run 5: Report of LEDBAT — Data Link

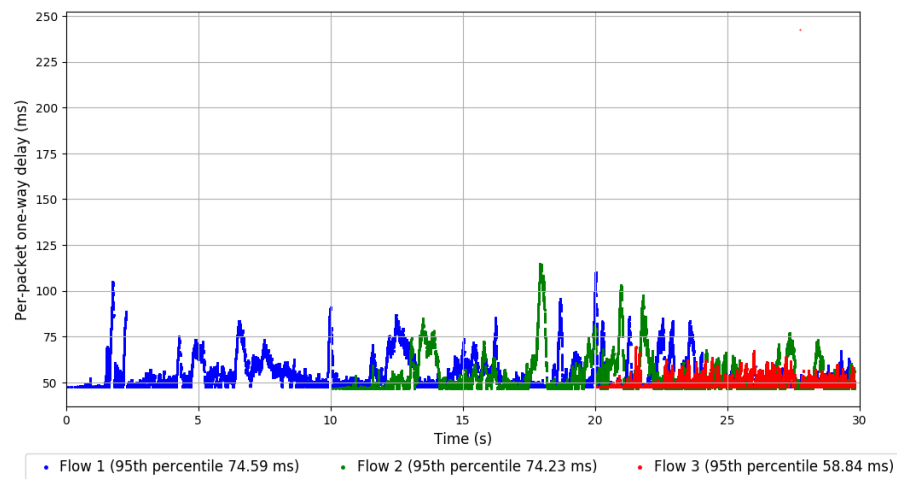
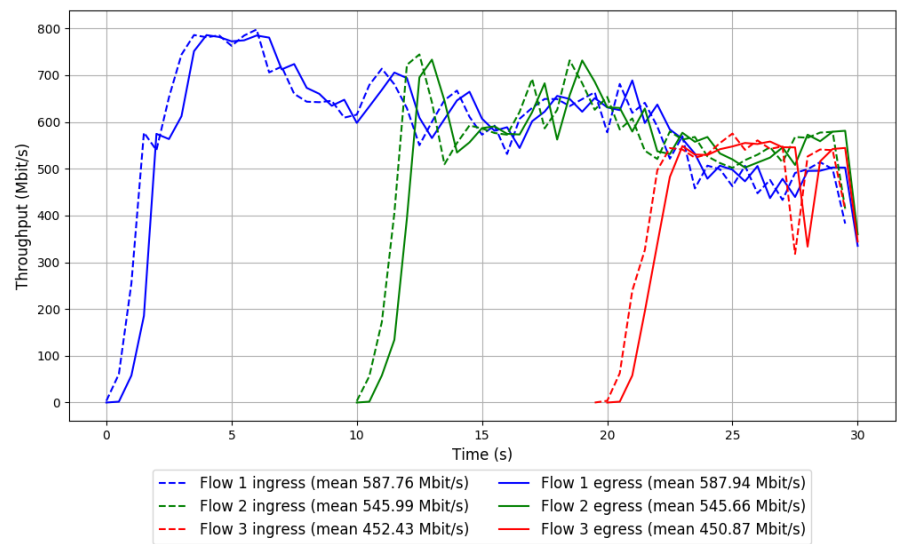


Run 1: Statistics of Indigo-Muses

Start at: 2018-10-26 21:38:37  
End at: 2018-10-26 21:39:07  
Local clock offset: 0.296 ms  
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2018-10-27 01:47:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1098.04 Mbit/s  
95th percentile per-packet one-way delay: 73.034 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 587.94 Mbit/s  
95th percentile per-packet one-way delay: 74.589 ms  
Loss rate: 0.29%  
-- Flow 2:  
Average throughput: 545.66 Mbit/s  
95th percentile per-packet one-way delay: 74.228 ms  
Loss rate: 0.54%  
-- Flow 3:  
Average throughput: 450.87 Mbit/s  
95th percentile per-packet one-way delay: 58.843 ms  
Loss rate: 1.30%

Run 1: Report of Indigo-Muses — Data Link



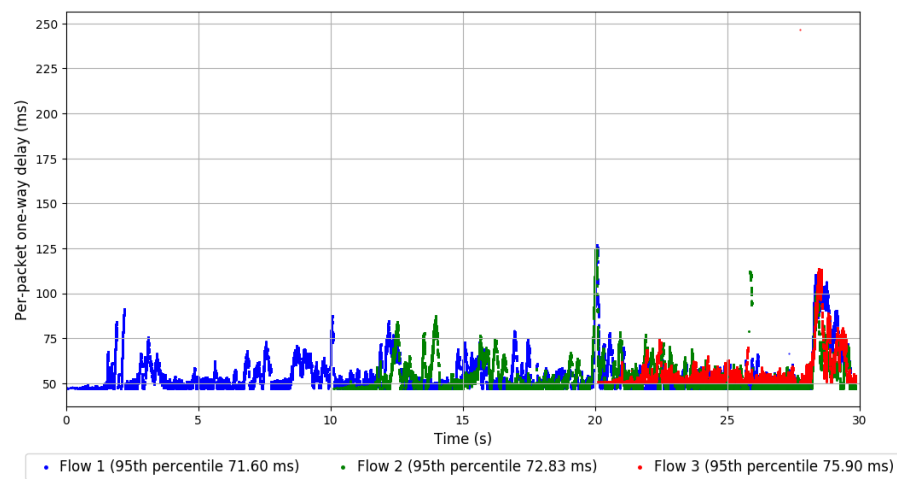
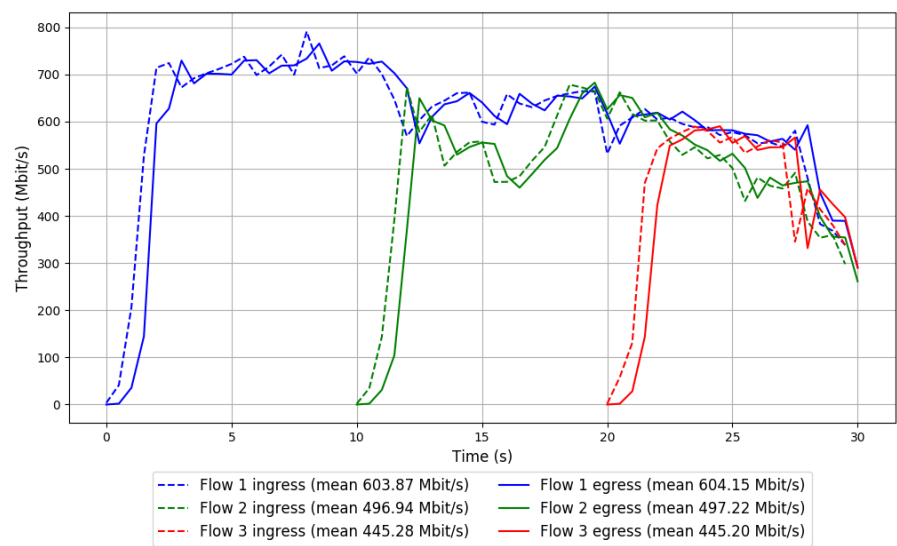


## Run 2: Statistics of Indigo-Muses

Start at: 2018-10-26 22:09:52  
End at: 2018-10-26 22:10:22  
Local clock offset: -0.113 ms  
Remote clock offset: -0.028 ms

```
# Below is generated by plot.py at 2018-10-27 01:47:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1079.12 Mbit/s
95th percentile per-packet one-way delay: 72.589 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 604.15 Mbit/s
95th percentile per-packet one-way delay: 71.604 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 497.22 Mbit/s
95th percentile per-packet one-way delay: 72.835 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 445.20 Mbit/s
95th percentile per-packet one-way delay: 75.903 ms
Loss rate: 1.02%
```

Run 2: Report of Indigo-Muses — Data Link

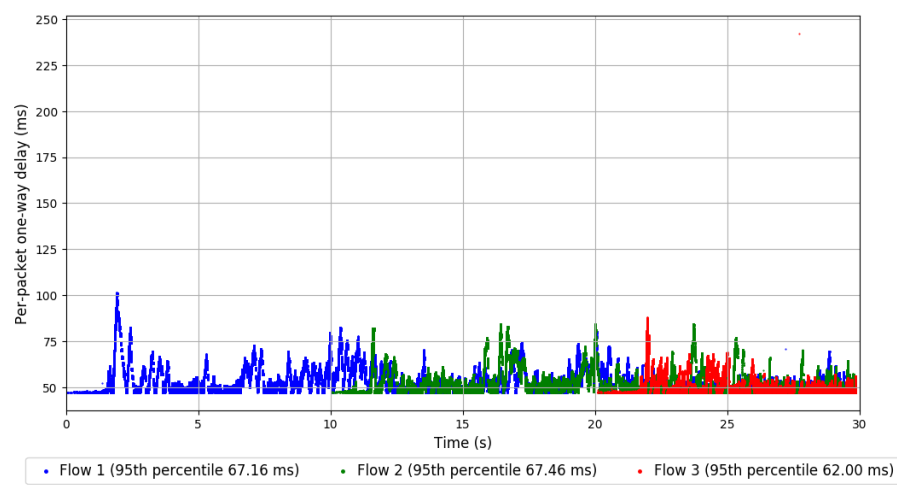
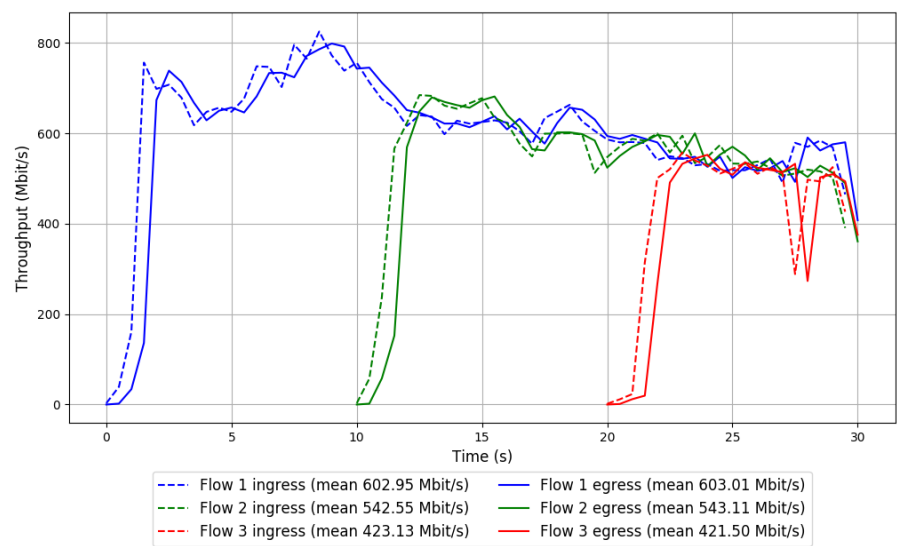


### Run 3: Statistics of Indigo-Muses

Start at: 2018-10-26 22:41:08  
End at: 2018-10-26 22:41:38  
Local clock offset: -0.177 ms  
Remote clock offset: -0.094 ms

```
# Below is generated by plot.py at 2018-10-27 01:48:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1101.36 Mbit/s
95th percentile per-packet one-way delay: 66.617 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 603.01 Mbit/s
95th percentile per-packet one-way delay: 67.160 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 543.11 Mbit/s
95th percentile per-packet one-way delay: 67.458 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 421.50 Mbit/s
95th percentile per-packet one-way delay: 61.998 ms
Loss rate: 1.35%
```

Run 3: Report of Indigo-Muses — Data Link

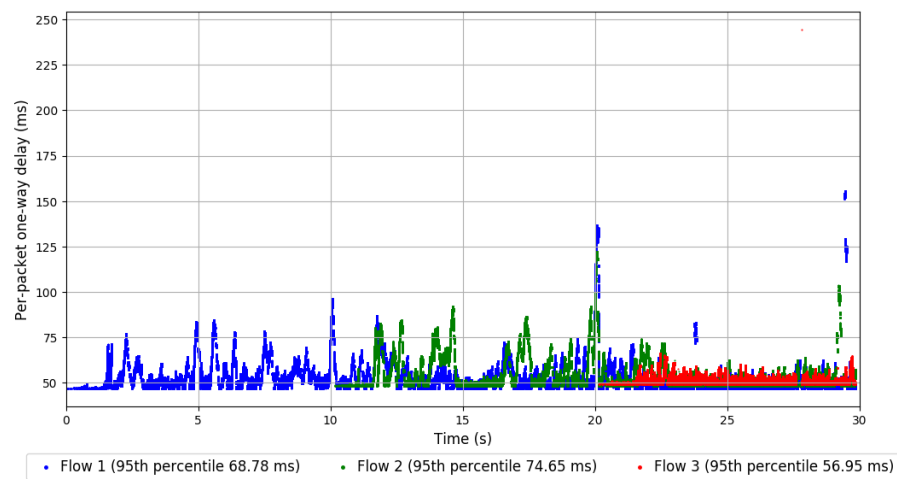
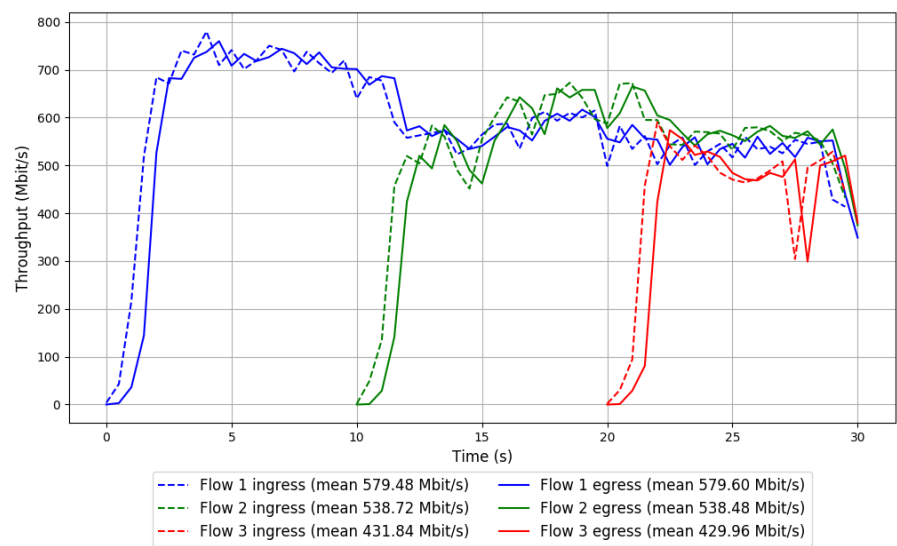


#### Run 4: Statistics of Indigo-Muses

Start at: 2018-10-26 23:12:16  
End at: 2018-10-26 23:12:46  
Local clock offset: -0.454 ms  
Remote clock offset: -0.235 ms

```
# Below is generated by plot.py at 2018-10-27 01:48:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1074.98 Mbit/s
95th percentile per-packet one-way delay: 69.768 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 579.60 Mbit/s
95th percentile per-packet one-way delay: 68.781 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 538.48 Mbit/s
95th percentile per-packet one-way delay: 74.646 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 429.96 Mbit/s
95th percentile per-packet one-way delay: 56.946 ms
Loss rate: 1.44%
```

Run 4: Report of Indigo-Muses — Data Link

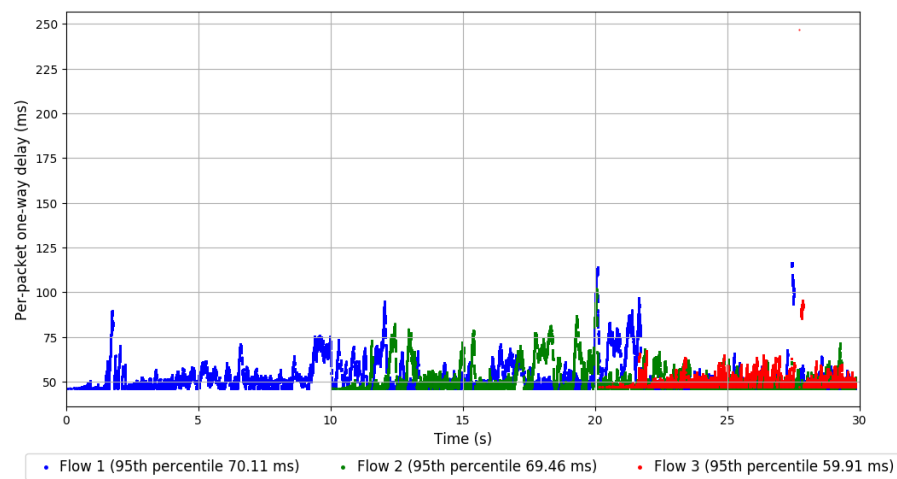
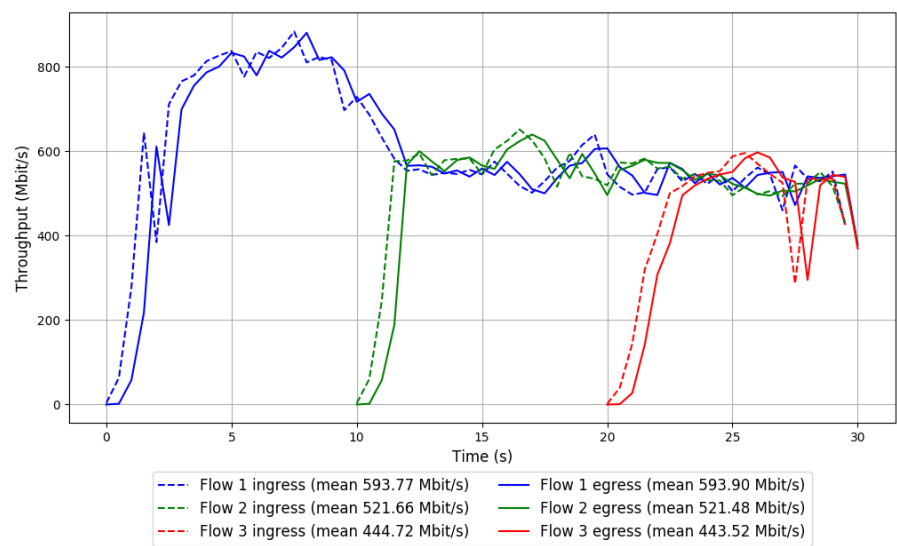


Run 5: Statistics of Indigo-Muses

Start at: 2018-10-26 23:43:28  
End at: 2018-10-26 23:43:58  
Local clock offset: -0.142 ms  
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2018-10-27 01:49:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1084.39 Mbit/s  
95th percentile per-packet one-way delay: 69.049 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 593.90 Mbit/s  
95th percentile per-packet one-way delay: 70.110 ms  
Loss rate: 0.29%  
-- Flow 2:  
Average throughput: 521.48 Mbit/s  
95th percentile per-packet one-way delay: 69.461 ms  
Loss rate: 0.51%  
-- Flow 3:  
Average throughput: 443.52 Mbit/s  
95th percentile per-packet one-way delay: 59.913 ms  
Loss rate: 1.24%

Run 5: Report of Indigo-Muses — Data Link



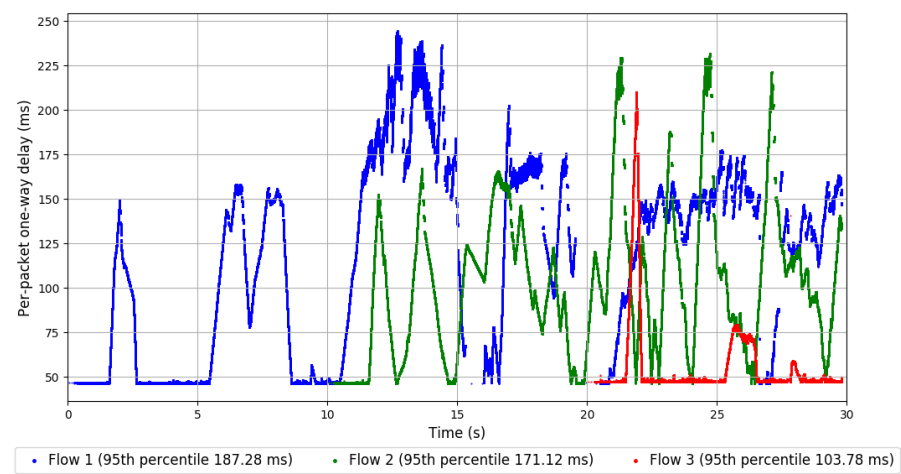
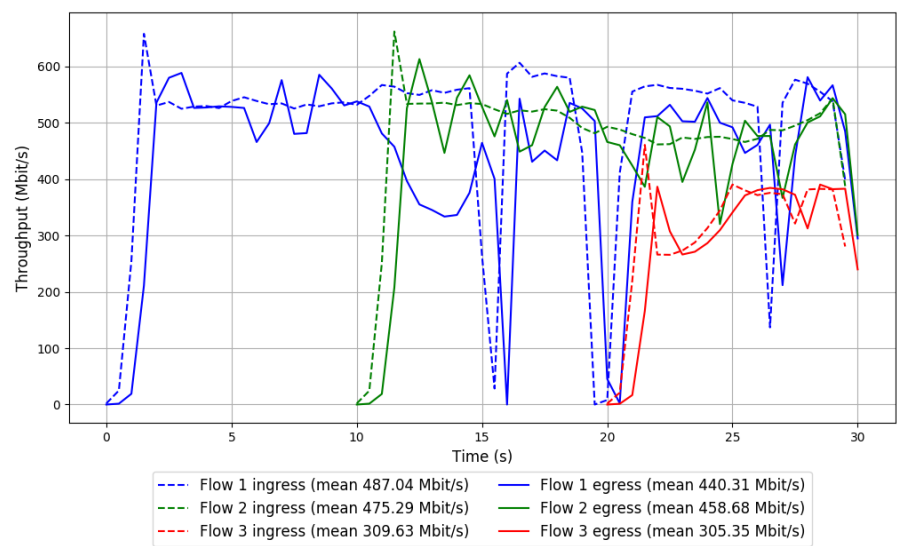


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-10-26 21:56:35
End at: 2018-10-26 21:57:05
Local clock offset: -0.16 ms
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2018-10-27 02:01:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 844.66 Mbit/s
95th percentile per-packet one-way delay: 179.773 ms
Loss rate: 6.96%
-- Flow 1:
Average throughput: 440.31 Mbit/s
95th percentile per-packet one-way delay: 187.278 ms
Loss rate: 9.88%
-- Flow 2:
Average throughput: 458.68 Mbit/s
95th percentile per-packet one-way delay: 171.115 ms
Loss rate: 3.95%
-- Flow 3:
Average throughput: 305.35 Mbit/s
95th percentile per-packet one-way delay: 103.780 ms
Loss rate: 2.34%
```

Run 1: Report of PCC-Allegro — Data Link

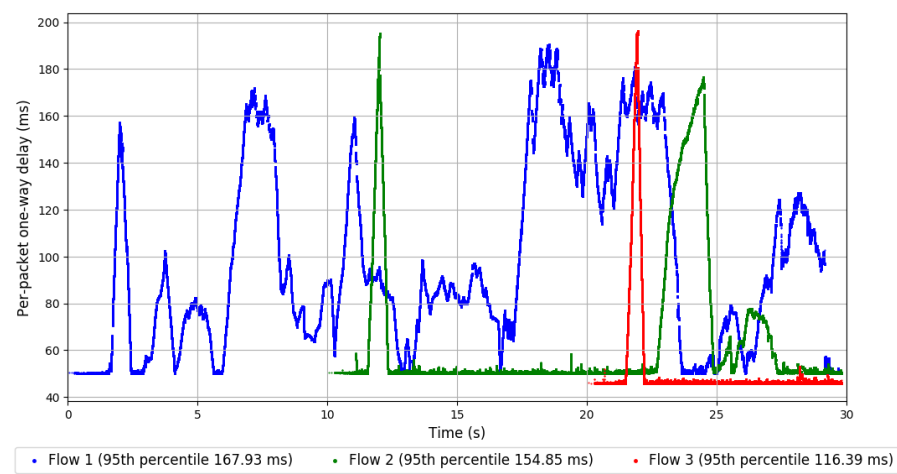
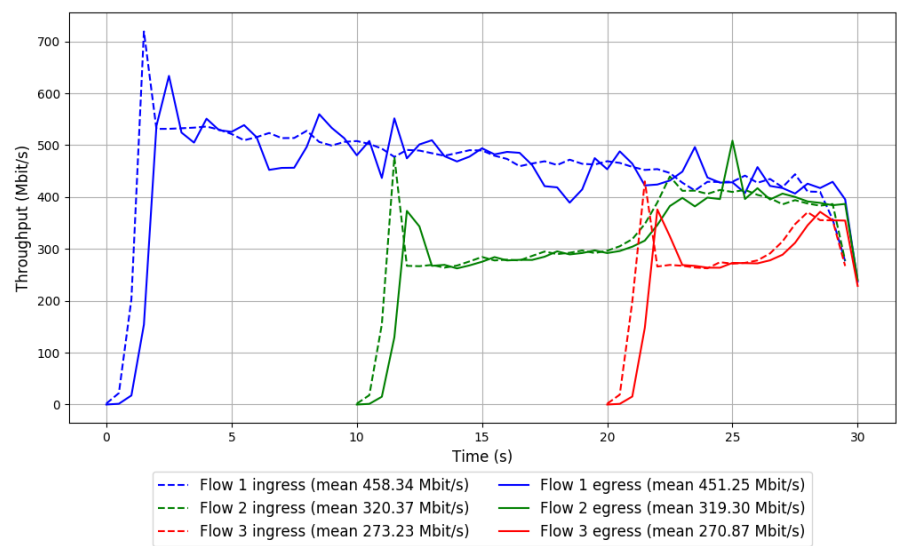


Run 2: Statistics of PCC-Allegro

Start at: 2018-10-26 22:27:47  
End at: 2018-10-26 22:28:17  
Local clock offset: -0.533 ms  
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2018-10-27 02:01:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 751.83 Mbit/s  
95th percentile per-packet one-way delay: 165.152 ms  
Loss rate: 1.57%  
-- Flow 1:  
Average throughput: 451.25 Mbit/s  
95th percentile per-packet one-way delay: 167.925 ms  
Loss rate: 1.87%  
-- Flow 2:  
Average throughput: 319.30 Mbit/s  
95th percentile per-packet one-way delay: 154.855 ms  
Loss rate: 0.83%  
-- Flow 3:  
Average throughput: 270.87 Mbit/s  
95th percentile per-packet one-way delay: 116.387 ms  
Loss rate: 1.80%

Run 2: Report of PCC-Allegro — Data Link

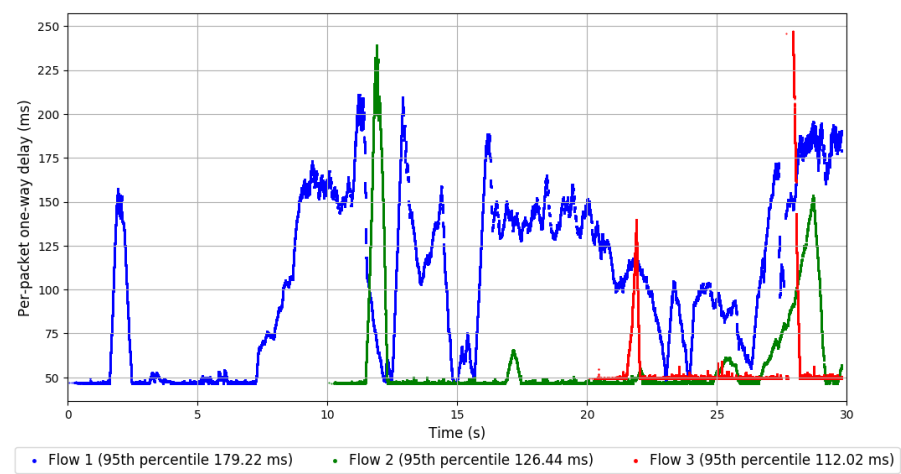
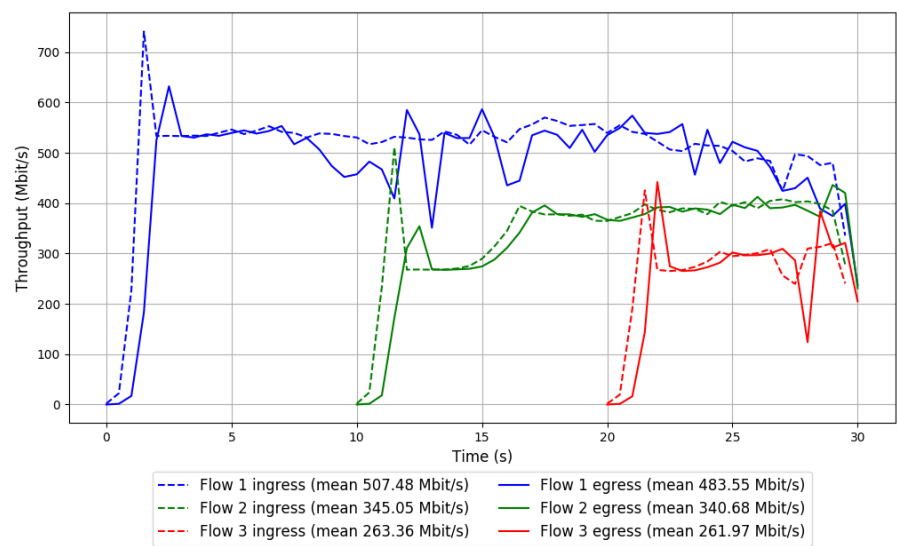


Run 3: Statistics of PCC-Allegro

Start at: 2018-10-26 22:59:01  
End at: 2018-10-26 22:59:31  
Local clock offset: -0.55 ms  
Remote clock offset: -0.146 ms

# Below is generated by plot.py at 2018-10-27 02:01:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 795.37 Mbit/s  
95th percentile per-packet one-way delay: 168.571 ms  
Loss rate: 3.74%  
-- Flow 1:  
Average throughput: 483.55 Mbit/s  
95th percentile per-packet one-way delay: 179.220 ms  
Loss rate: 5.02%  
-- Flow 2:  
Average throughput: 340.68 Mbit/s  
95th percentile per-packet one-way delay: 126.436 ms  
Loss rate: 1.75%  
-- Flow 3:  
Average throughput: 261.97 Mbit/s  
95th percentile per-packet one-way delay: 112.024 ms  
Loss rate: 1.52%

Run 3: Report of PCC-Allegro — Data Link

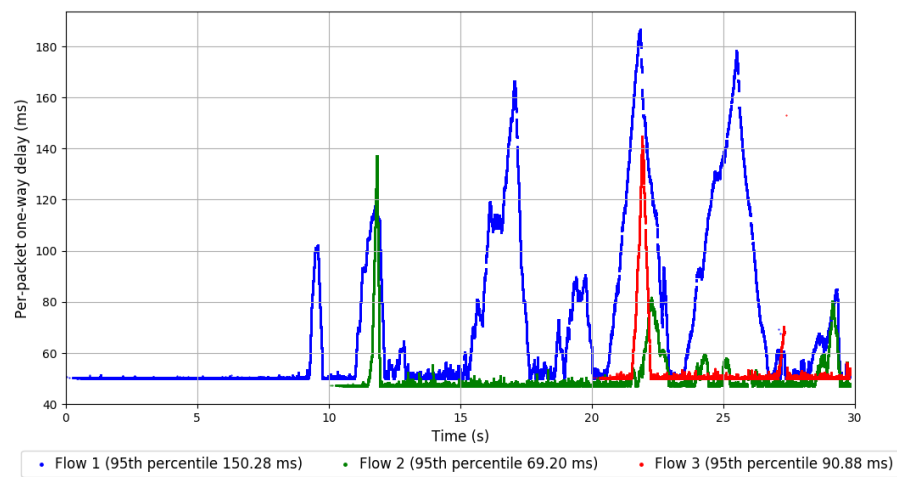
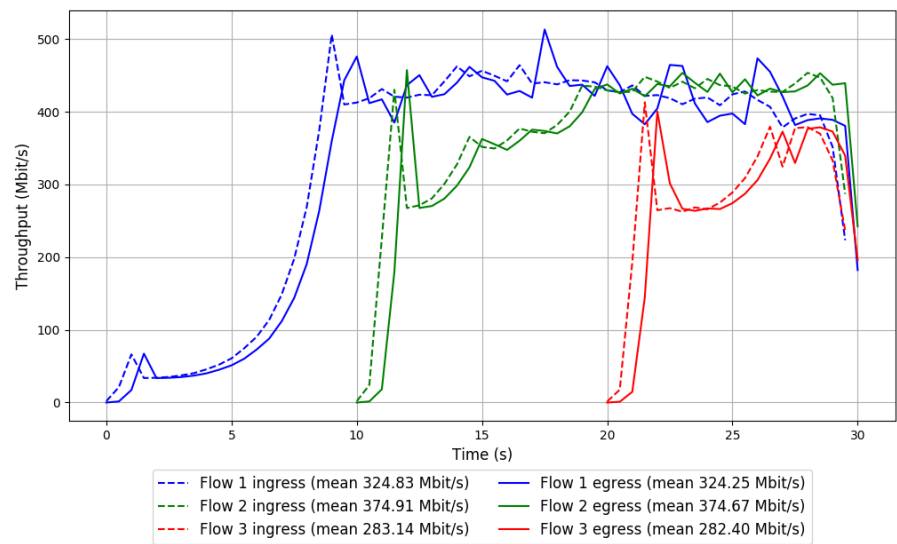


Run 4: Statistics of PCC-Allegro

Start at: 2018-10-26 23:30:19  
End at: 2018-10-26 23:30:49  
Local clock offset: -0.1 ms  
Remote clock offset: -0.323 ms

# Below is generated by plot.py at 2018-10-27 02:11:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 665.25 Mbit/s  
95th percentile per-packet one-way delay: 130.447 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 324.25 Mbit/s  
95th percentile per-packet one-way delay: 150.277 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 374.67 Mbit/s  
95th percentile per-packet one-way delay: 69.200 ms  
Loss rate: 0.53%  
-- Flow 3:  
Average throughput: 282.40 Mbit/s  
95th percentile per-packet one-way delay: 90.882 ms  
Loss rate: 1.25%

Run 4: Report of PCC-Allegro — Data Link





Run 5: Statistics of PCC-Allegro

Start at: 2018-10-27 00:01:26

End at: 2018-10-27 00:01:56

Local clock offset: -0.083 ms

Remote clock offset: 0.083 ms

# Below is generated by plot.py at 2018-10-27 02:15:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 756.33 Mbit/s

95th percentile per-packet one-way delay: 166.935 ms

Loss rate: 2.46%

-- Flow 1:

Average throughput: 444.16 Mbit/s

95th percentile per-packet one-way delay: 159.887 ms

Loss rate: 3.33%

-- Flow 2:

Average throughput: 337.55 Mbit/s

95th percentile per-packet one-way delay: 174.345 ms

Loss rate: 0.88%

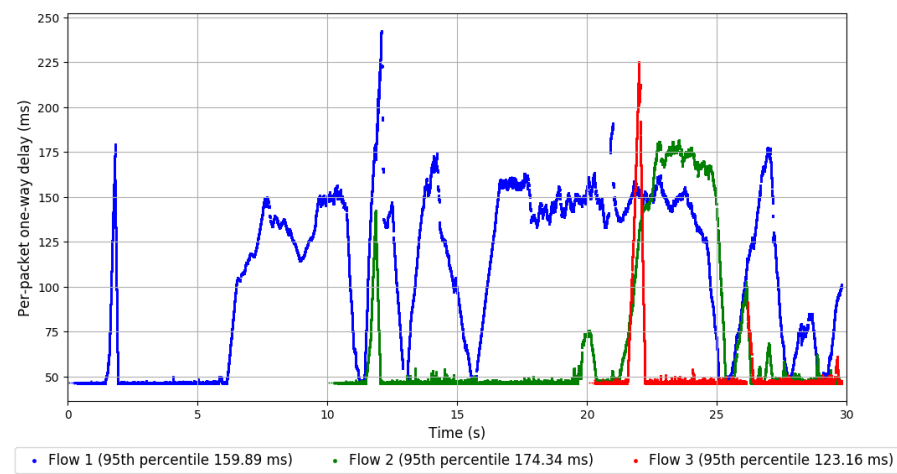
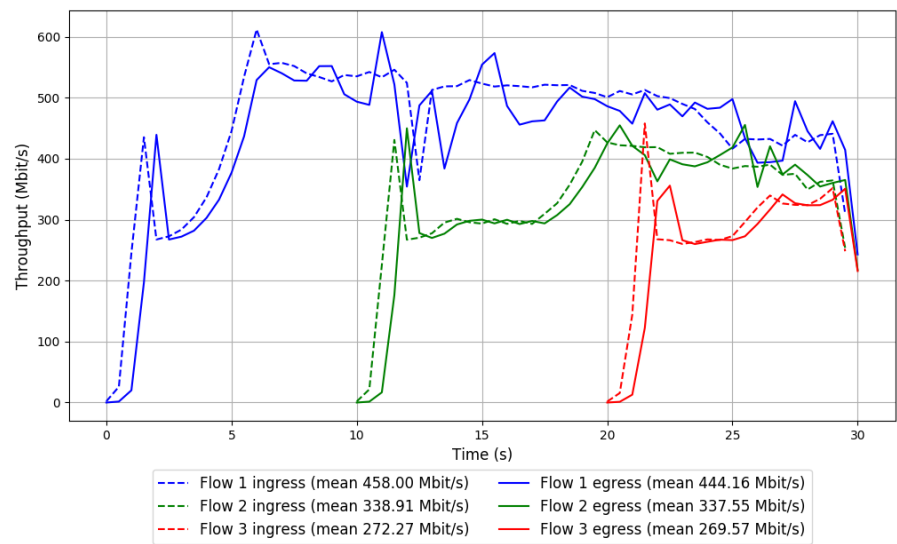
-- Flow 3:

Average throughput: 269.57 Mbit/s

95th percentile per-packet one-way delay: 123.156 ms

Loss rate: 1.96%

Run 5: Report of PCC-Allegro — Data Link

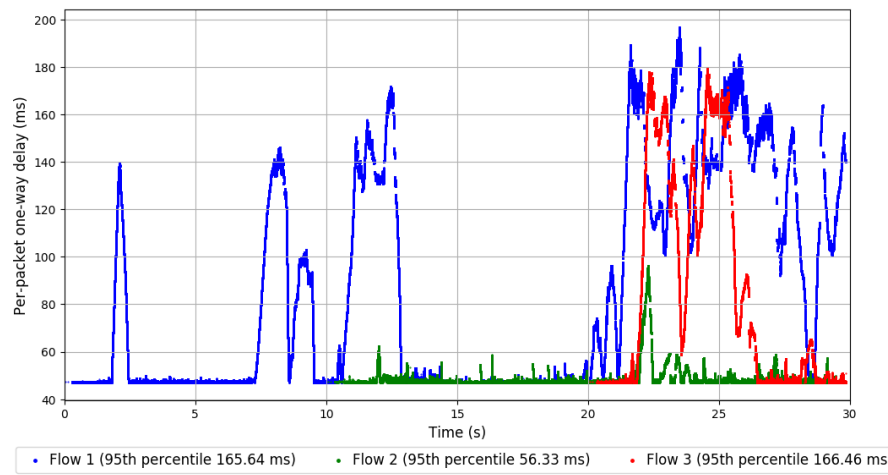
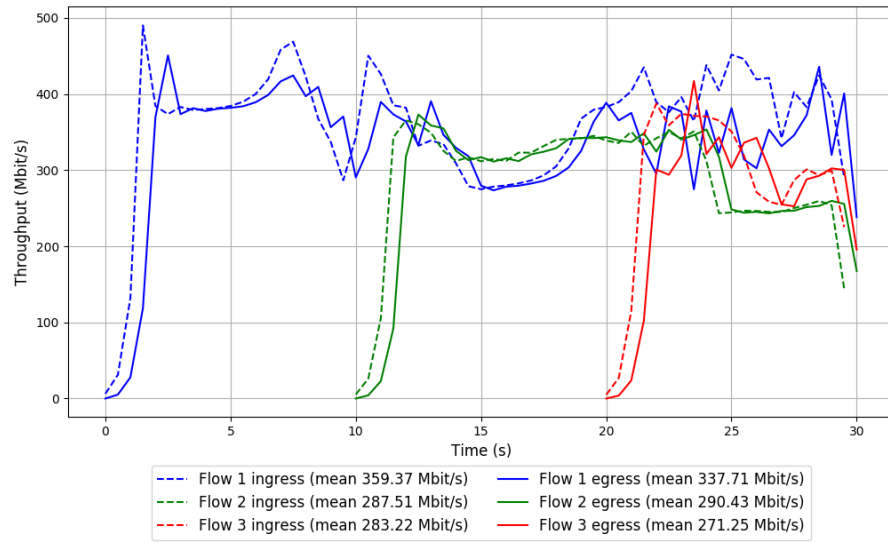


Run 1: Statistics of PCC-Expr

Start at: 2018-10-26 21:30:25  
End at: 2018-10-26 21:30:55  
Local clock offset: -0.084 ms  
Remote clock offset: -0.011 ms

# Below is generated by plot.py at 2018-10-27 02:15:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 619.15 Mbit/s  
95th percentile per-packet one-way delay: 162.069 ms  
Loss rate: 4.27%  
-- Flow 1:  
Average throughput: 337.71 Mbit/s  
95th percentile per-packet one-way delay: 165.638 ms  
Loss rate: 6.33%  
-- Flow 2:  
Average throughput: 290.43 Mbit/s  
95th percentile per-packet one-way delay: 56.328 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 271.25 Mbit/s  
95th percentile per-packet one-way delay: 166.461 ms  
Loss rate: 5.12%

# Run 1: Report of PCC-Expr — Data Link

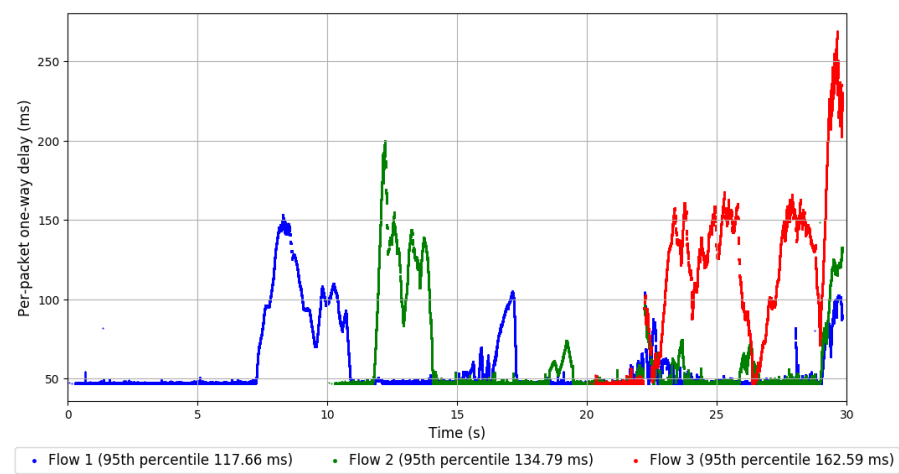
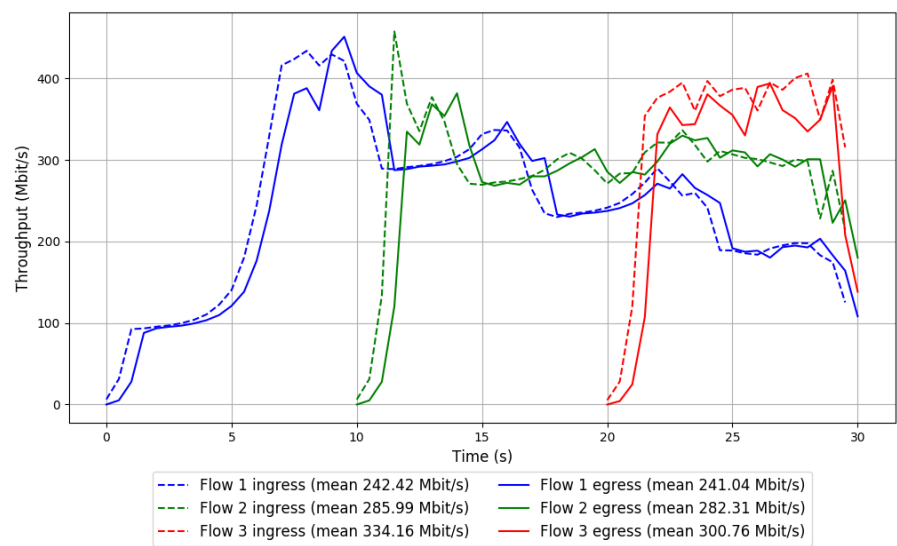


Run 2: Statistics of PCC-Expr

Start at: 2018-10-26 22:01:47  
End at: 2018-10-26 22:02:17  
Local clock offset: -0.137 ms  
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2018-10-27 02:15:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 527.02 Mbit/s  
95th percentile per-packet one-way delay: 147.535 ms  
Loss rate: 3.22%  
-- Flow 1:  
Average throughput: 241.04 Mbit/s  
95th percentile per-packet one-way delay: 117.664 ms  
Loss rate: 0.90%  
-- Flow 2:  
Average throughput: 282.31 Mbit/s  
95th percentile per-packet one-way delay: 134.793 ms  
Loss rate: 1.76%  
-- Flow 3:  
Average throughput: 300.76 Mbit/s  
95th percentile per-packet one-way delay: 162.595 ms  
Loss rate: 10.87%

Run 2: Report of PCC-Expr — Data Link

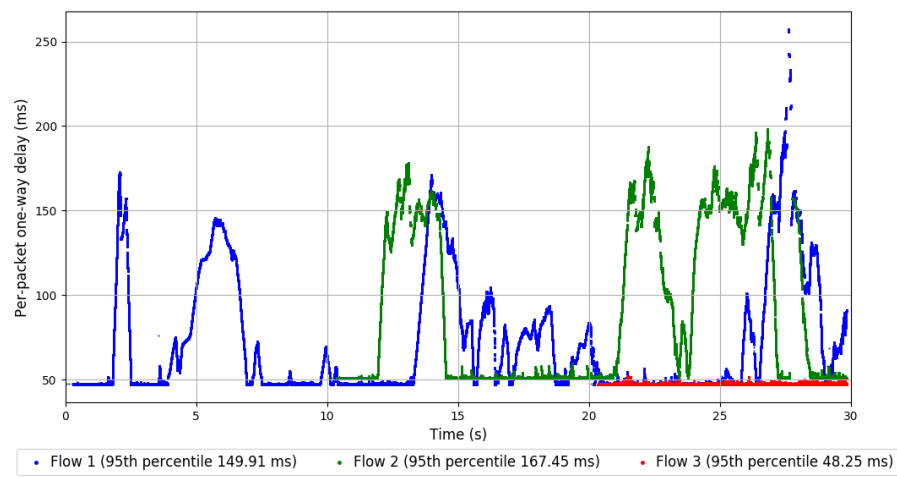
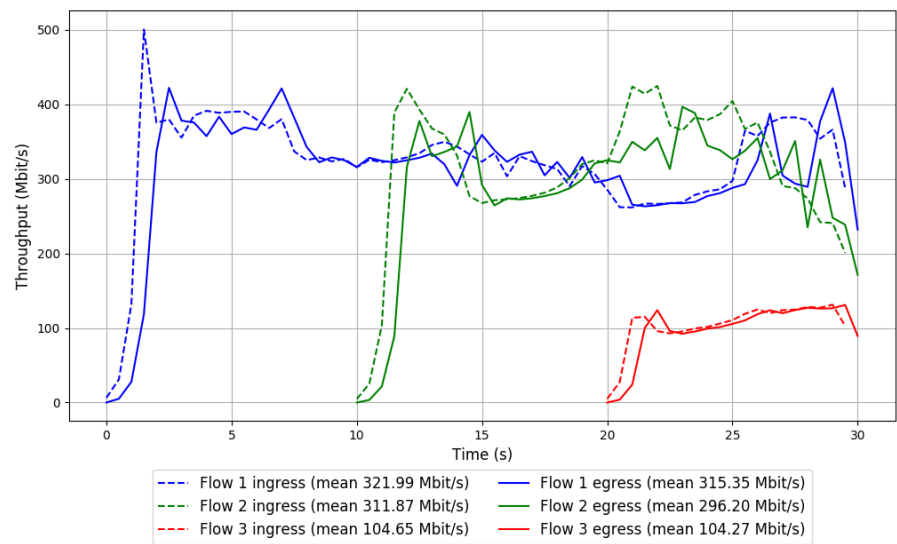


Run 3: Statistics of PCC-Expr

Start at: 2018-10-26 22:32:52  
End at: 2018-10-26 22:33:22  
Local clock offset: -0.201 ms  
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2018-10-27 02:15:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 546.12 Mbit/s  
95th percentile per-packet one-way delay: 158.893 ms  
Loss rate: 3.46%  
-- Flow 1:  
Average throughput: 315.35 Mbit/s  
95th percentile per-packet one-way delay: 149.913 ms  
Loss rate: 2.37%  
-- Flow 2:  
Average throughput: 296.20 Mbit/s  
95th percentile per-packet one-way delay: 167.446 ms  
Loss rate: 5.50%  
-- Flow 3:  
Average throughput: 104.27 Mbit/s  
95th percentile per-packet one-way delay: 48.252 ms  
Loss rate: 1.29%

Run 3: Report of PCC-Expr — Data Link



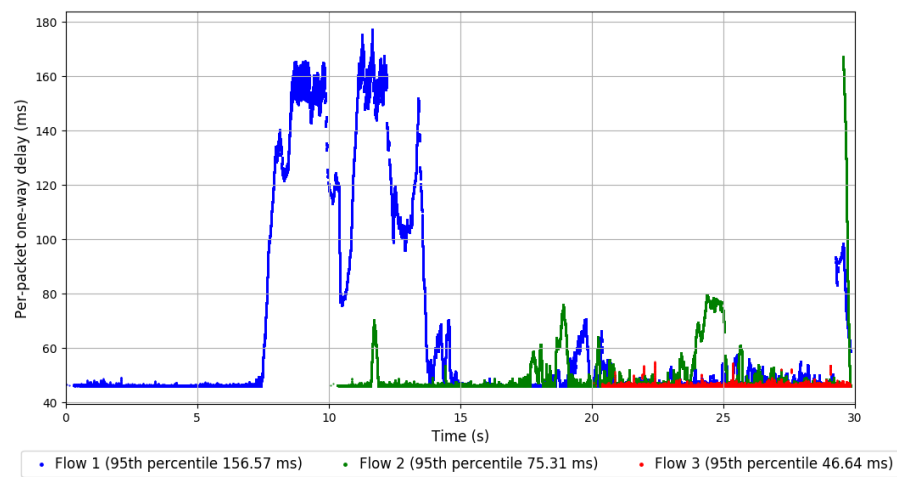
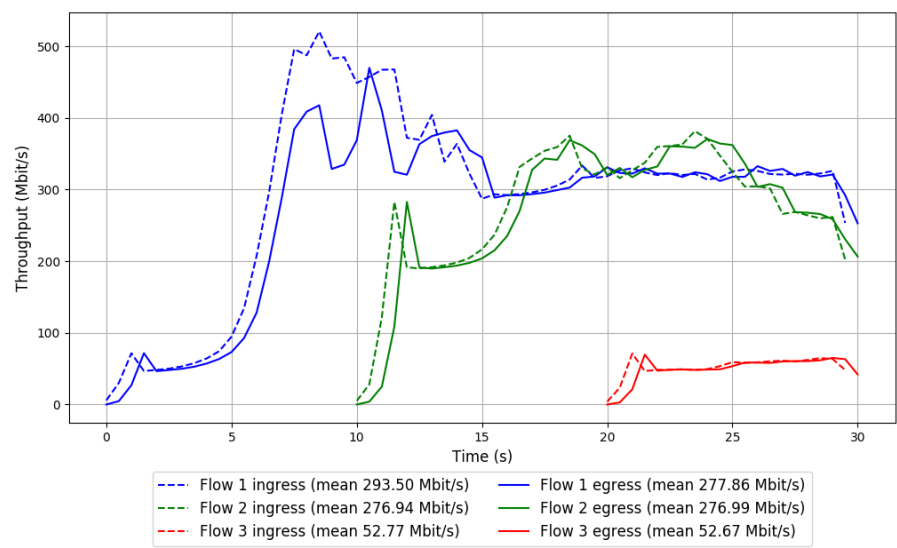


Run 4: Statistics of PCC-Expr

Start at: 2018-10-26 23:04:07  
End at: 2018-10-26 23:04:37  
Local clock offset: -0.499 ms  
Remote clock offset: -0.217 ms

# Below is generated by plot.py at 2018-10-27 02:16:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 478.98 Mbit/s  
95th percentile per-packet one-way delay: 151.257 ms  
Loss rate: 3.55%  
-- Flow 1:  
Average throughput: 277.86 Mbit/s  
95th percentile per-packet one-way delay: 156.566 ms  
Loss rate: 5.63%  
-- Flow 2:  
Average throughput: 276.99 Mbit/s  
95th percentile per-packet one-way delay: 75.312 ms  
Loss rate: 0.46%  
-- Flow 3:  
Average throughput: 52.67 Mbit/s  
95th percentile per-packet one-way delay: 46.643 ms  
Loss rate: 1.19%

Run 4: Report of PCC-Expr — Data Link

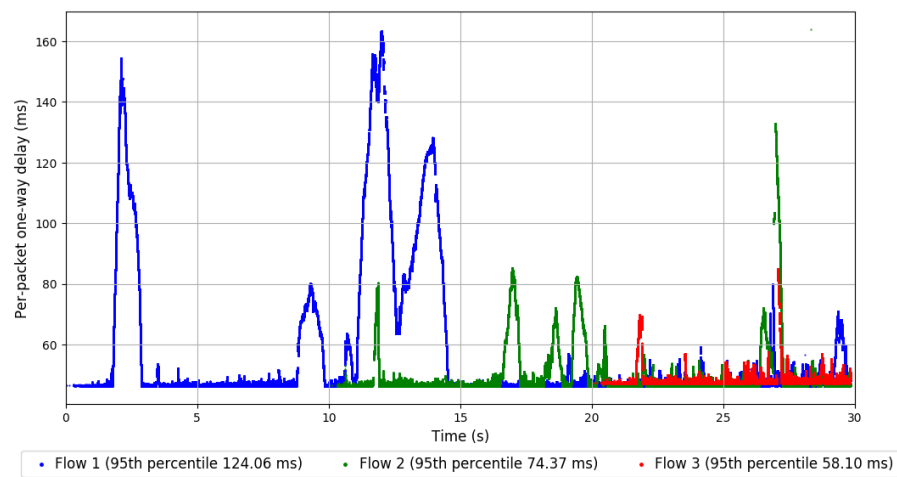
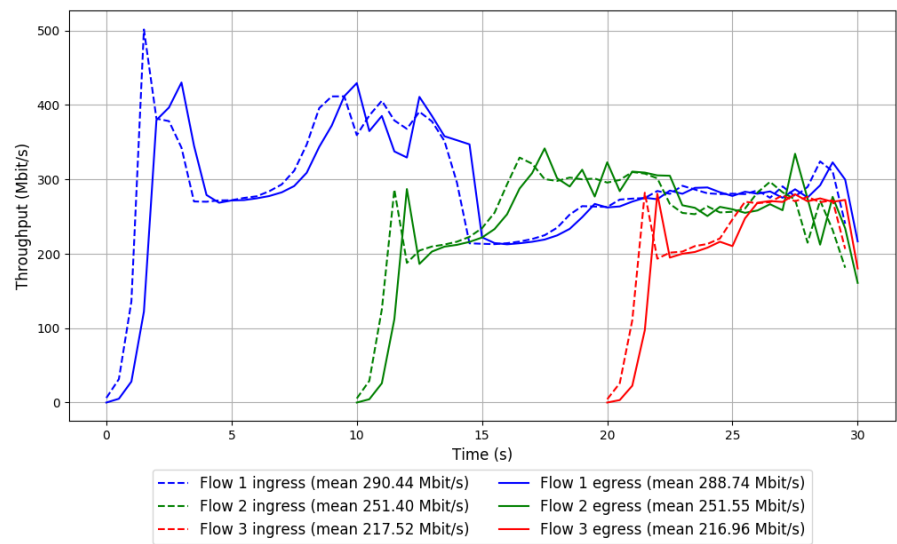


Run 5: Statistics of PCC-Expr

Start at: 2018-10-26 23:35:20  
End at: 2018-10-26 23:35:50  
Local clock offset: -0.112 ms  
Remote clock offset: -0.232 ms

# Below is generated by plot.py at 2018-10-27 02:18:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 526.96 Mbit/s  
95th percentile per-packet one-way delay: 109.903 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 288.74 Mbit/s  
95th percentile per-packet one-way delay: 124.058 ms  
Loss rate: 0.90%  
-- Flow 2:  
Average throughput: 251.55 Mbit/s  
95th percentile per-packet one-way delay: 74.371 ms  
Loss rate: 0.42%  
-- Flow 3:  
Average throughput: 216.96 Mbit/s  
95th percentile per-packet one-way delay: 58.102 ms  
Loss rate: 1.21%

Run 5: Report of PCC-Expr — Data Link

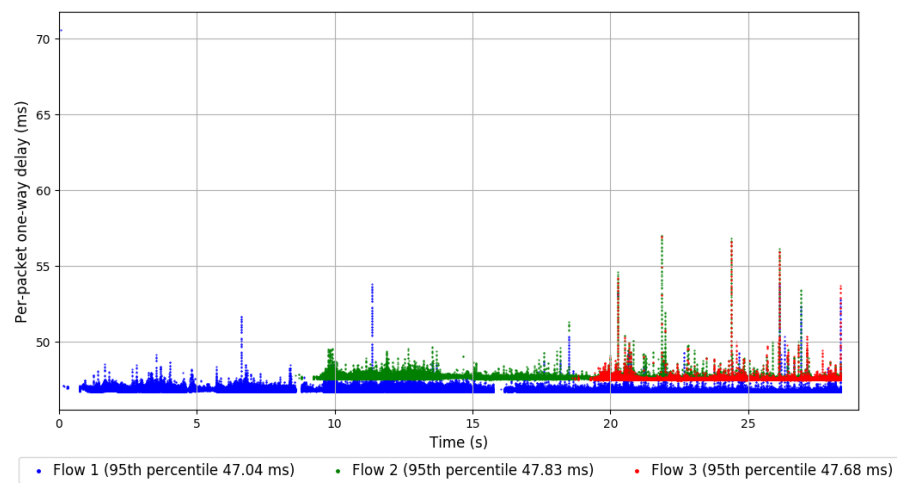
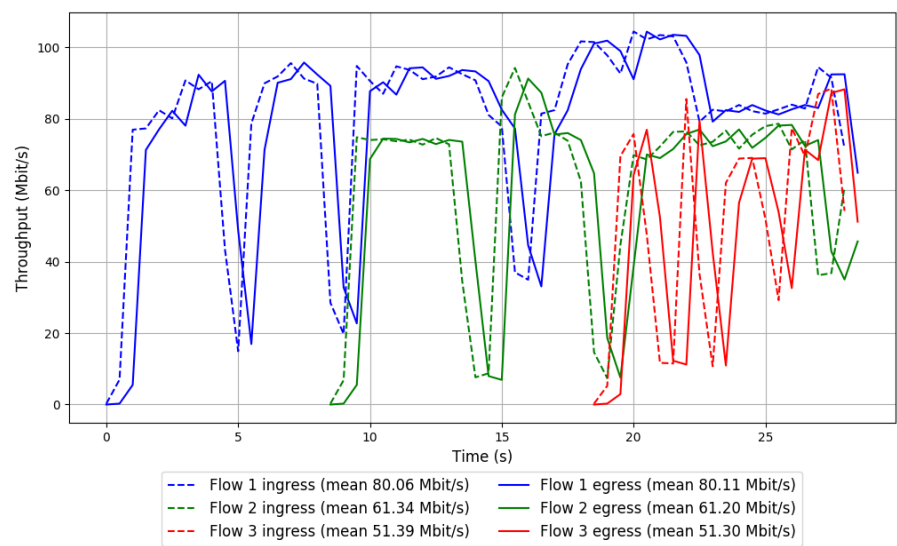


Run 1: Statistics of QUIC Cubic

Start at: 2018-10-26 21:46:56  
End at: 2018-10-26 21:47:26  
Local clock offset: 0.32 ms  
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2018-10-27 02:18:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 140.57 Mbit/s  
95th percentile per-packet one-way delay: 47.704 ms  
Loss rate: 0.55%  
-- Flow 1:  
Average throughput: 80.11 Mbit/s  
95th percentile per-packet one-way delay: 47.039 ms  
Loss rate: 0.34%  
-- Flow 2:  
Average throughput: 61.20 Mbit/s  
95th percentile per-packet one-way delay: 47.826 ms  
Loss rate: 0.70%  
-- Flow 3:  
Average throughput: 51.30 Mbit/s  
95th percentile per-packet one-way delay: 47.677 ms  
Loss rate: 1.14%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-10-26 22:18:16

End at: 2018-10-26 22:18:46

Local clock offset: -0.154 ms

Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2018-10-27 02:18:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 99.54 Mbit/s

95th percentile per-packet one-way delay: 47.415 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 57.55 Mbit/s

95th percentile per-packet one-way delay: 47.445 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 34.20 Mbit/s

95th percentile per-packet one-way delay: 47.352 ms

Loss rate: 1.30%

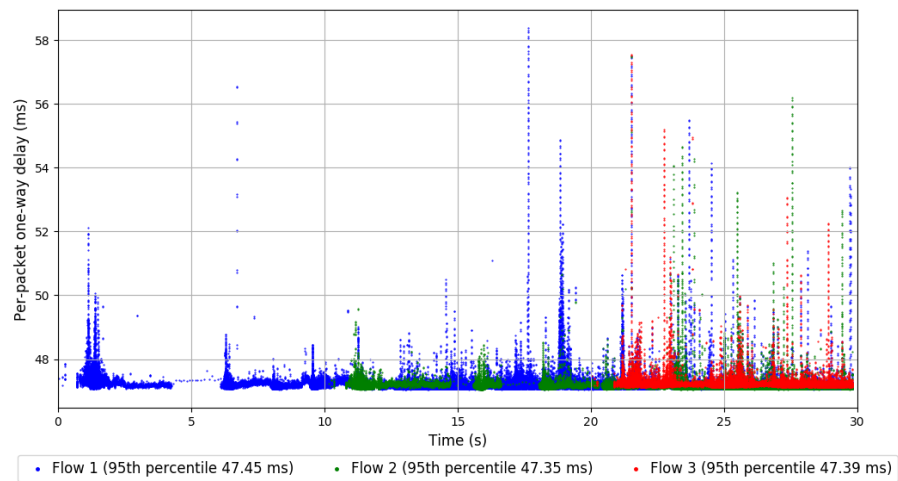
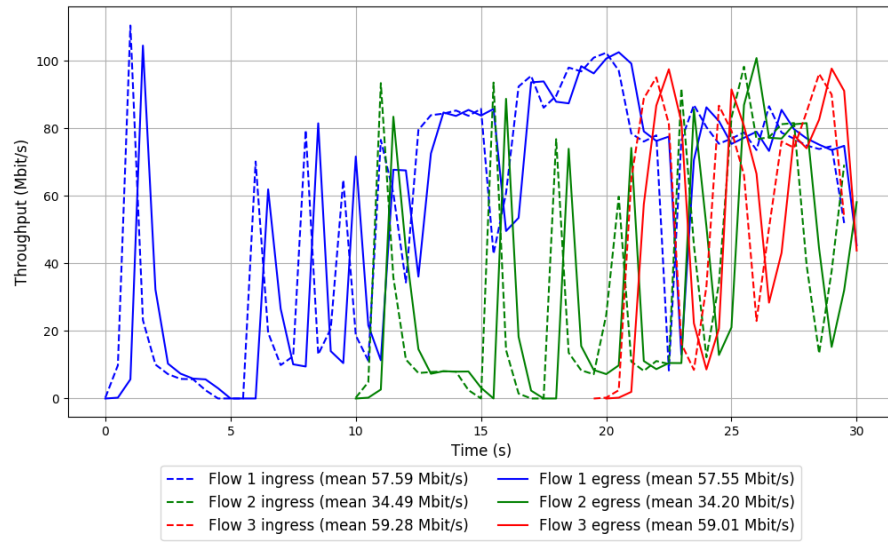
-- Flow 3:

Average throughput: 59.01 Mbit/s

95th percentile per-packet one-way delay: 47.392 ms

Loss rate: 1.40%

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





Run 3: Statistics of QUIC Cubic

Start at: 2018-10-26 22:49:29

End at: 2018-10-26 22:49:59

Local clock offset: -0.219 ms

Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2018-10-27 02:18:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 104.81 Mbit/s

95th percentile per-packet one-way delay: 48.639 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 65.74 Mbit/s

95th percentile per-packet one-way delay: 47.233 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 36.85 Mbit/s

95th percentile per-packet one-way delay: 46.416 ms

Loss rate: 1.01%

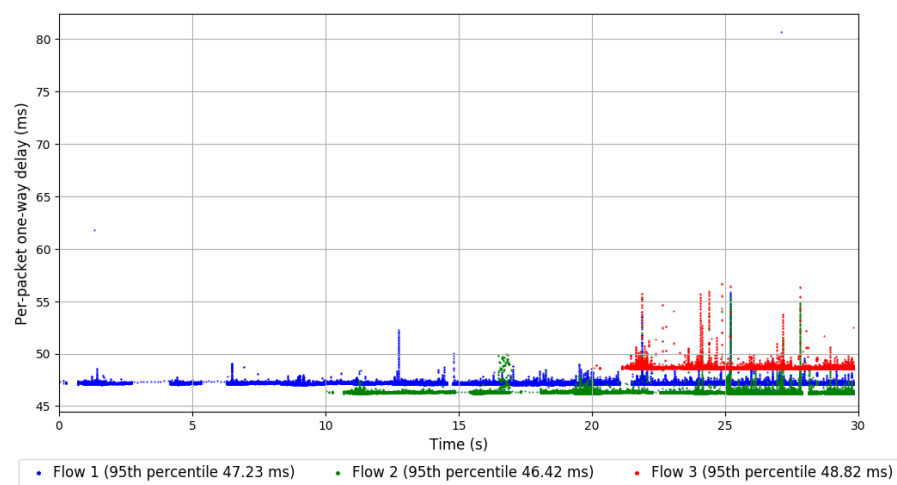
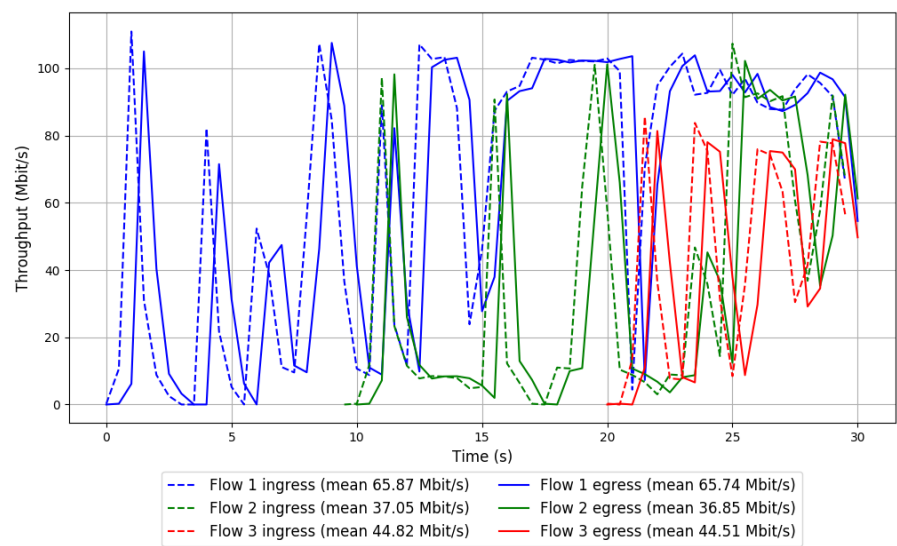
-- Flow 3:

Average throughput: 44.51 Mbit/s

95th percentile per-packet one-way delay: 48.816 ms

Loss rate: 1.62%

Run 3: Report of QUIC Cubic — Data Link

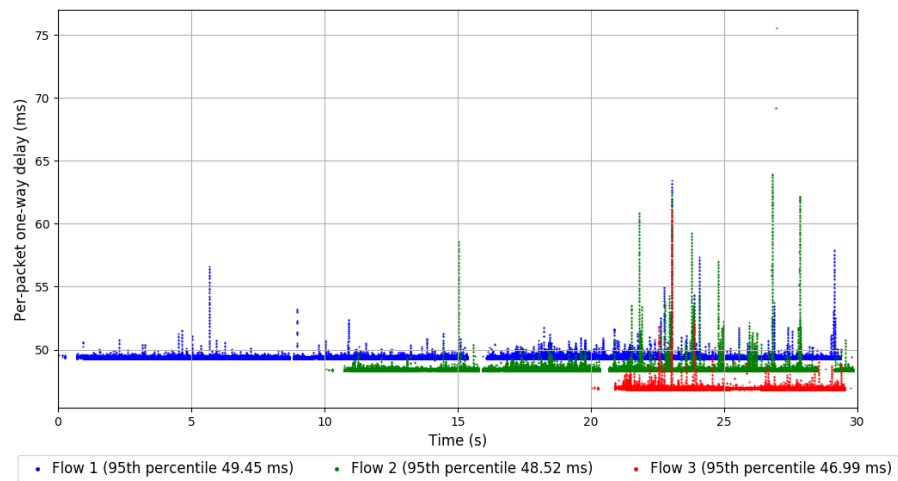
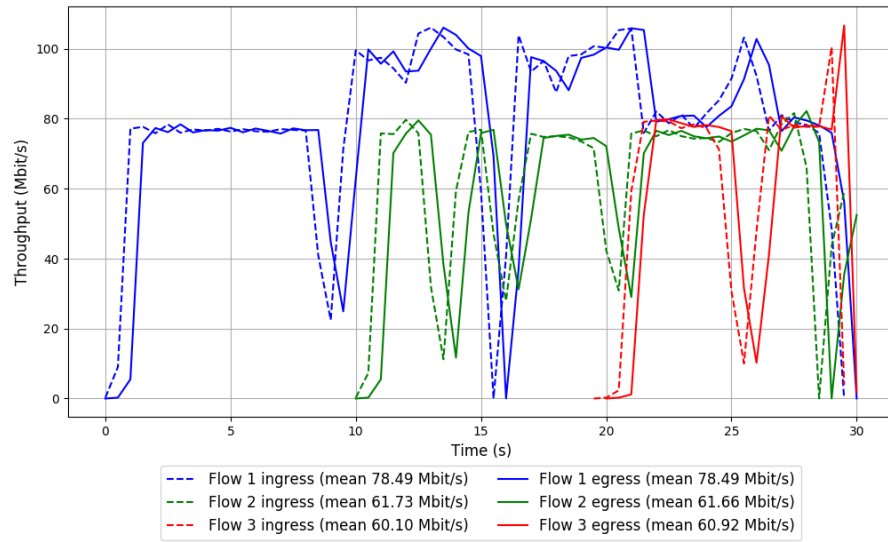


Run 4: Statistics of QUIC Cubic

Start at: 2018-10-26 23:20:43  
End at: 2018-10-26 23:21:13  
Local clock offset: -0.42 ms  
Remote clock offset: -0.273 ms

# Below is generated by plot.py at 2018-10-27 02:18:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 139.12 Mbit/s  
95th percentile per-packet one-way delay: 49.418 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 78.49 Mbit/s  
95th percentile per-packet one-way delay: 49.449 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 61.66 Mbit/s  
95th percentile per-packet one-way delay: 48.520 ms  
Loss rate: 0.60%  
-- Flow 3:  
Average throughput: 60.92 Mbit/s  
95th percentile per-packet one-way delay: 46.987 ms  
Loss rate: 0.33%

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



Run 5: Statistics of QUIC Cubic

Start at: 2018-10-26 23:51:53

End at: 2018-10-26 23:52:23

Local clock offset: 0.267 ms

Remote clock offset: 0.029 ms

# Below is generated by plot.py at 2018-10-27 02:18:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 115.03 Mbit/s

95th percentile per-packet one-way delay: 49.067 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 56.10 Mbit/s

95th percentile per-packet one-way delay: 47.575 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 65.09 Mbit/s

95th percentile per-packet one-way delay: 49.119 ms

Loss rate: 0.55%

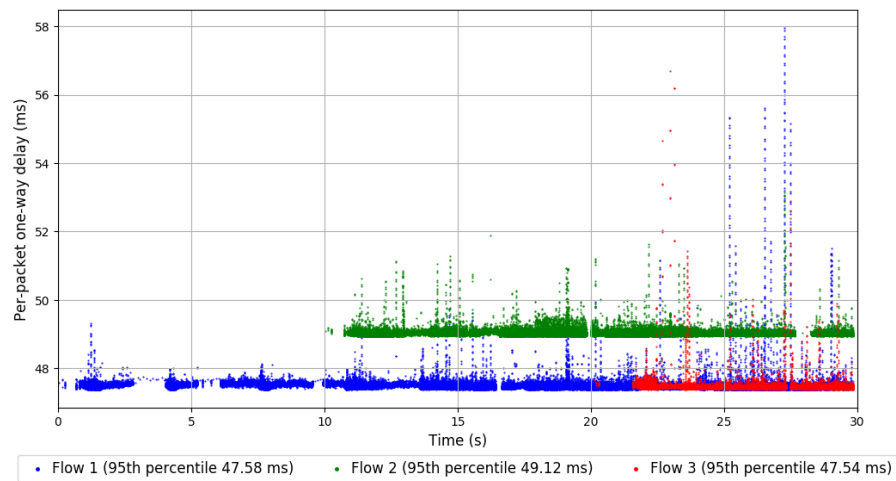
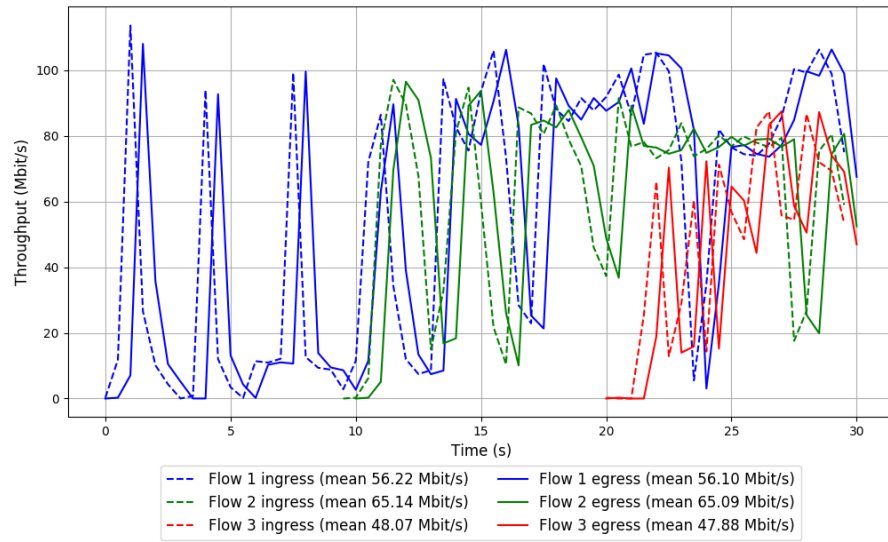
-- Flow 3:

Average throughput: 47.88 Mbit/s

95th percentile per-packet one-way delay: 47.536 ms

Loss rate: 1.38%

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

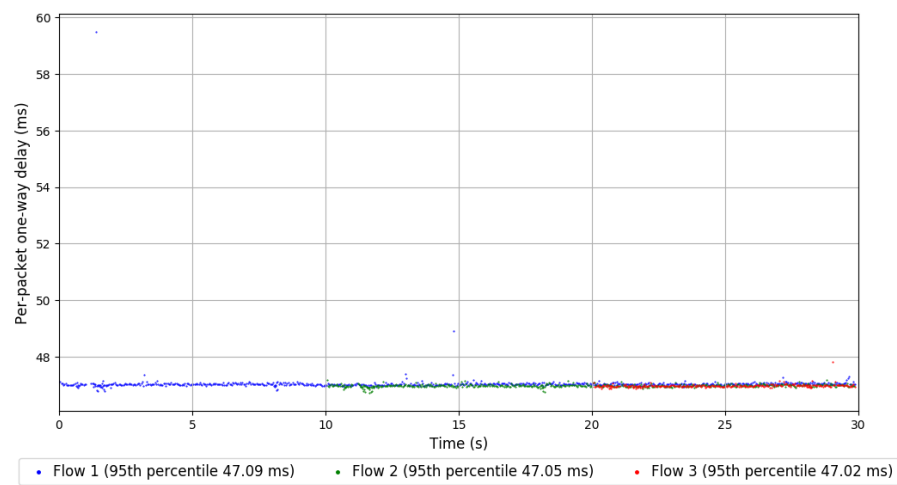
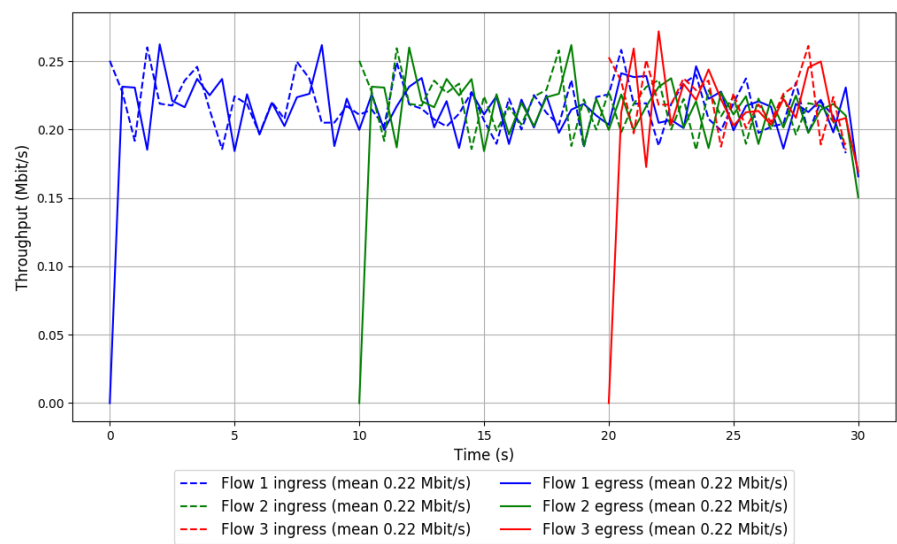


```
Run 1: Statistics of SReAM

Start at: 2018-10-26 21:53:35
End at: 2018-10-26 21:54:05
Local clock offset: -0.496 ms
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2018-10-27 02:18:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 47.074 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.091 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.045 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.025 ms
Loss rate: 1.09%
```

Run 1: Report of SReAM — Data Link



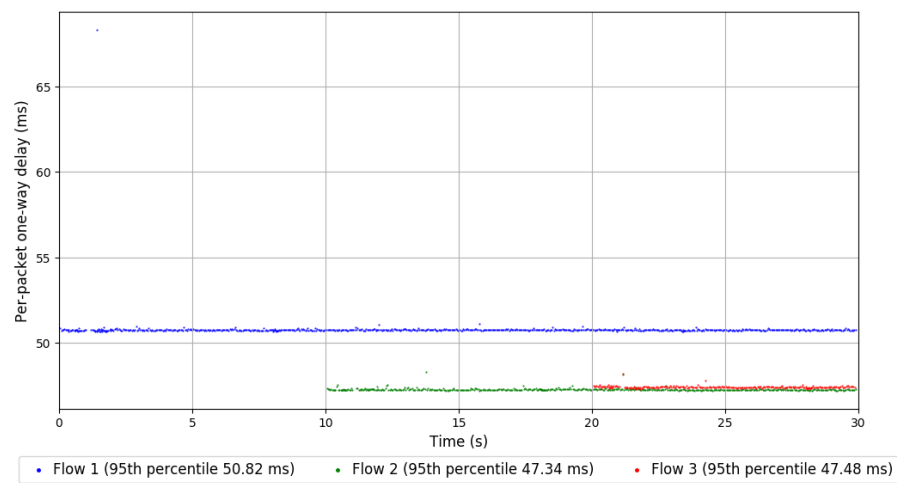
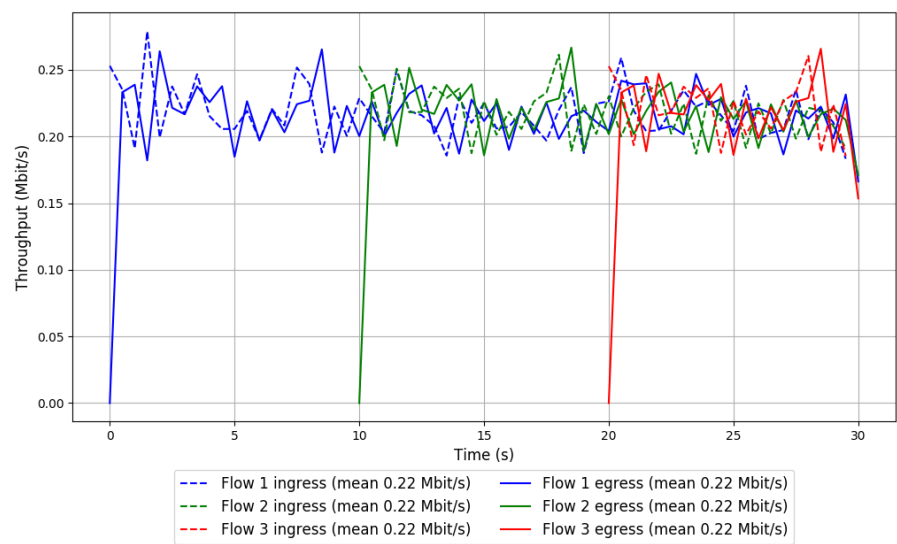


Run 2: Statistics of SReAM

Start at: 2018-10-26 22:24:49  
End at: 2018-10-26 22:25:19  
Local clock offset: -0.176 ms  
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2018-10-27 02:18:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 50.800 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.824 ms  
Loss rate: 0.26%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 47.339 ms  
Loss rate: 0.40%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 47.483 ms  
Loss rate: 1.09%

Run 2: Report of SCReAM — Data Link

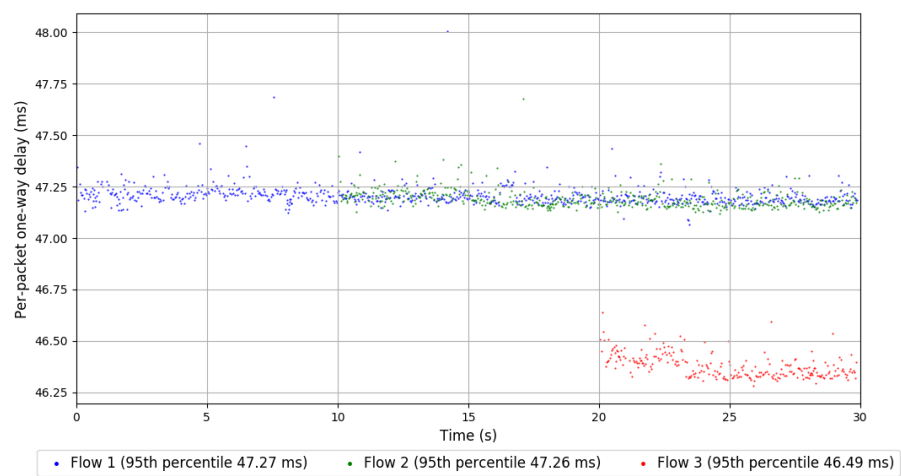
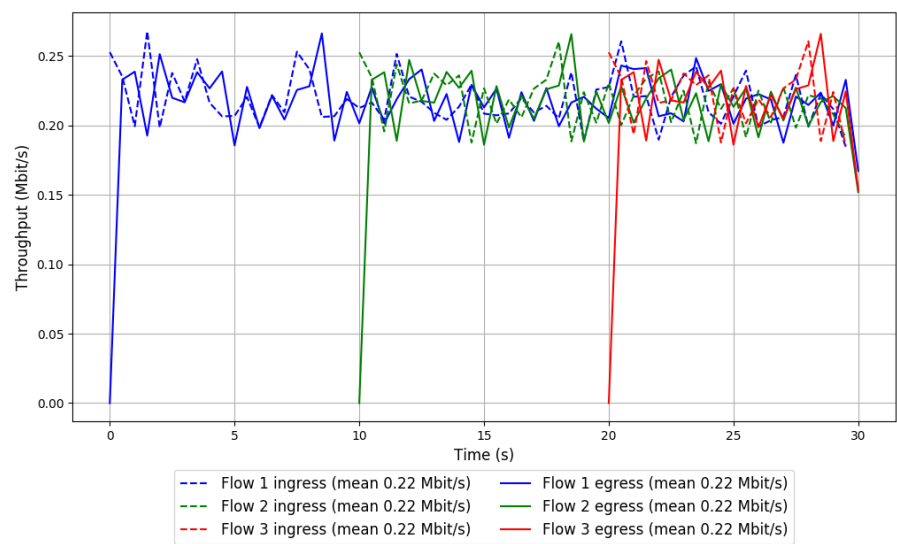


Run 3: Statistics of SReAM

Start at: 2018-10-26 22:56:02  
End at: 2018-10-26 22:56:32  
Local clock offset: -0.25 ms  
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2018-10-27 02:18:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 47.261 ms  
Loss rate: 0.52%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 47.273 ms  
Loss rate: 0.26%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 47.256 ms  
Loss rate: 0.62%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 46.493 ms  
Loss rate: 1.09%

Run 3: Report of SCReAM — Data Link

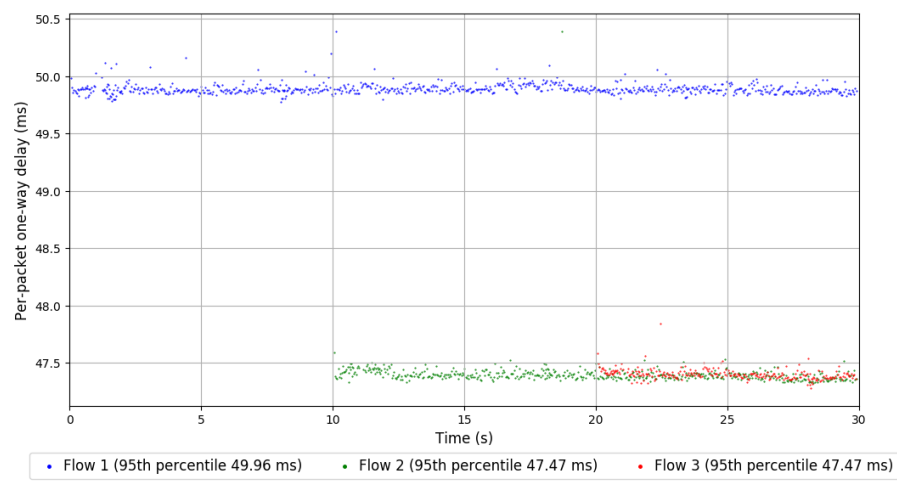
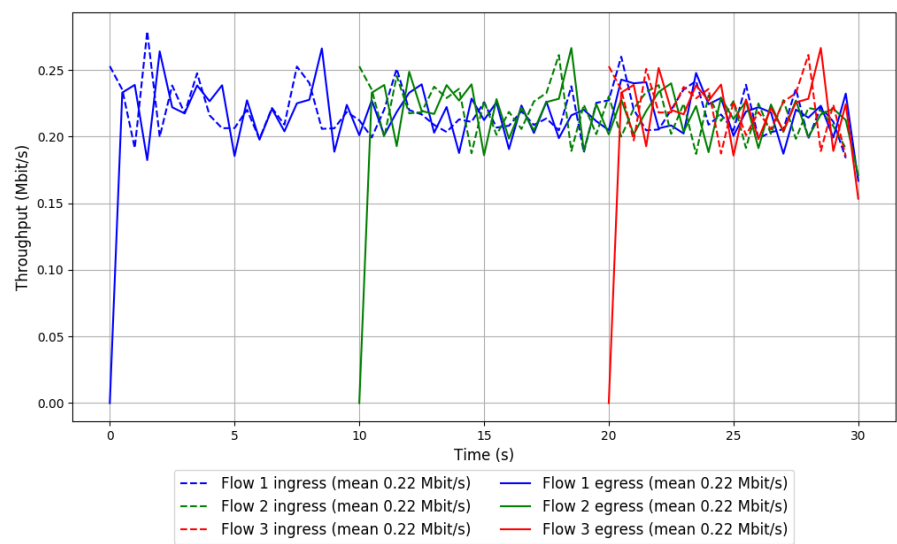


Run 4: Statistics of SReAM

Start at: 2018-10-26 23:27:19  
End at: 2018-10-26 23:27:49  
Local clock offset: -0.091 ms  
Remote clock offset: -0.323 ms

# Below is generated by plot.py at 2018-10-27 02:18:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 49.938 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 49.964 ms  
Loss rate: 0.26%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 47.468 ms  
Loss rate: 0.40%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 47.468 ms  
Loss rate: 1.09%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-10-26 23:58:29

End at: 2018-10-26 23:58:59

Local clock offset: -0.03 ms

Remote clock offset: 0.044 ms

# Below is generated by plot.py at 2018-10-27 02:18:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 48.978 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.453 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.010 ms

Loss rate: 0.61%

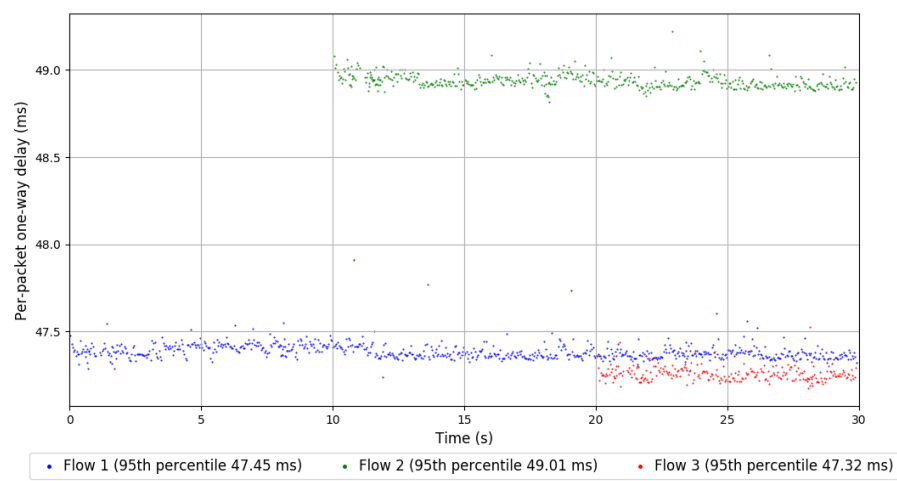
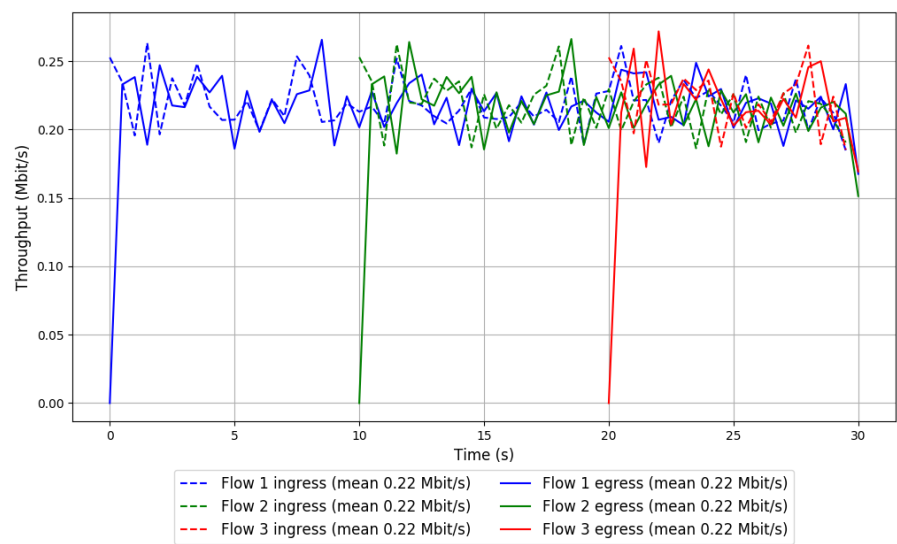
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 47.316 ms

Loss rate: 1.09%

Run 5: Report of SReAM — Data Link



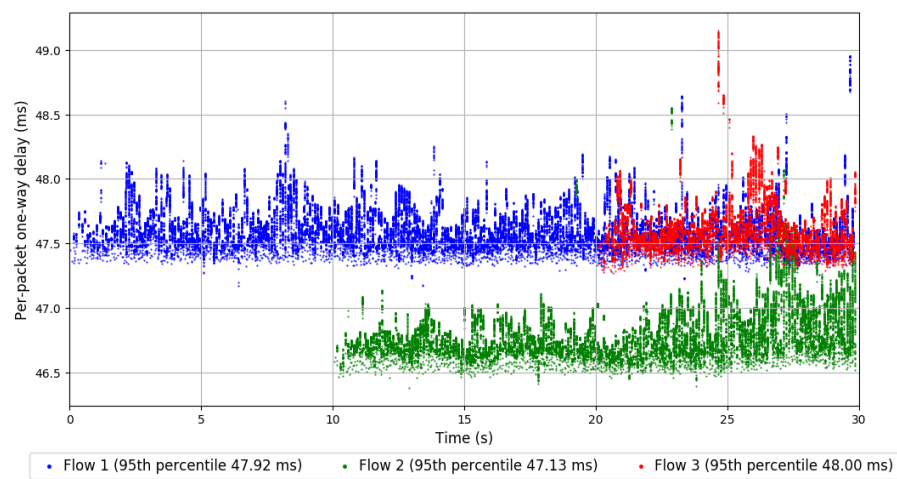
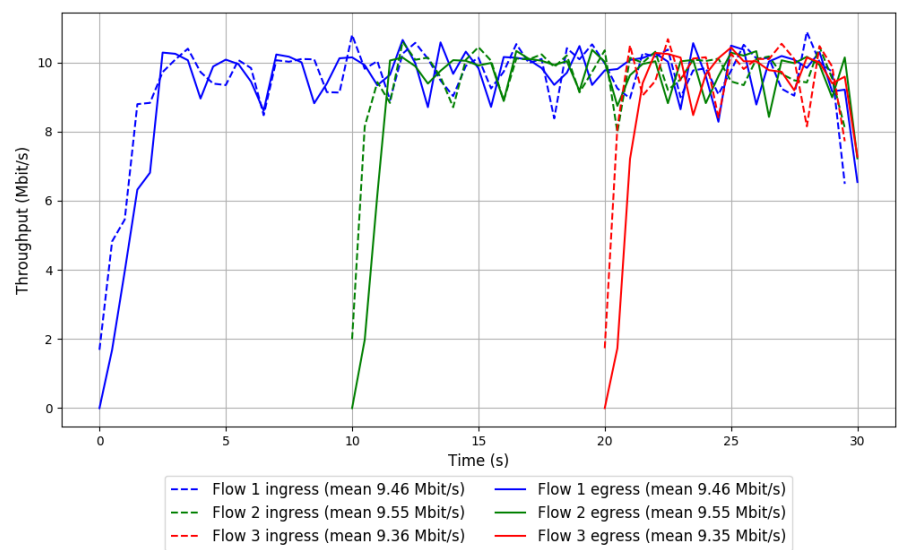


Run 1: Statistics of Sprout

Start at: 2018-10-26 21:43:44  
End at: 2018-10-26 21:44:14  
Local clock offset: -0.063 ms  
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2018-10-27 02:18:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 18.87 Mbit/s  
95th percentile per-packet one-way delay: 47.877 ms  
Loss rate: 0.53%  
-- Flow 1:  
Average throughput: 9.46 Mbit/s  
95th percentile per-packet one-way delay: 47.920 ms  
Loss rate: 0.36%  
-- Flow 2:  
Average throughput: 9.55 Mbit/s  
95th percentile per-packet one-way delay: 47.134 ms  
Loss rate: 0.54%  
-- Flow 3:  
Average throughput: 9.35 Mbit/s  
95th percentile per-packet one-way delay: 47.998 ms  
Loss rate: 1.06%

Run 1: Report of Sprout — Data Link

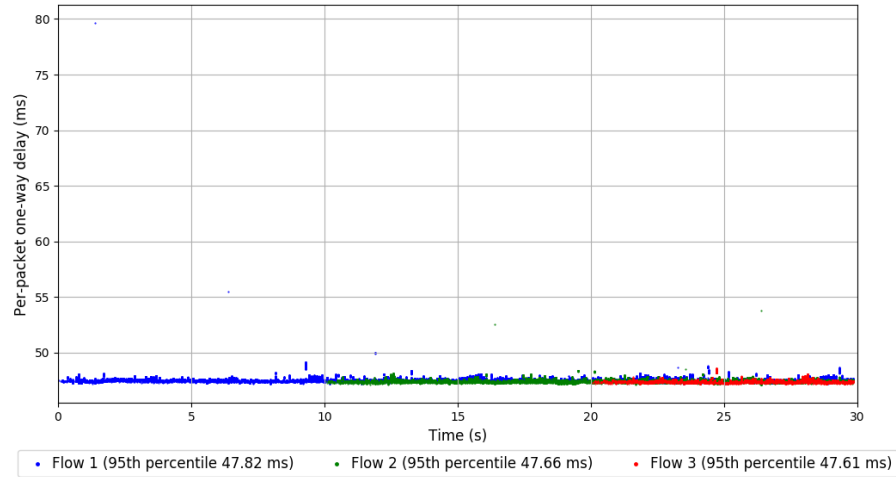
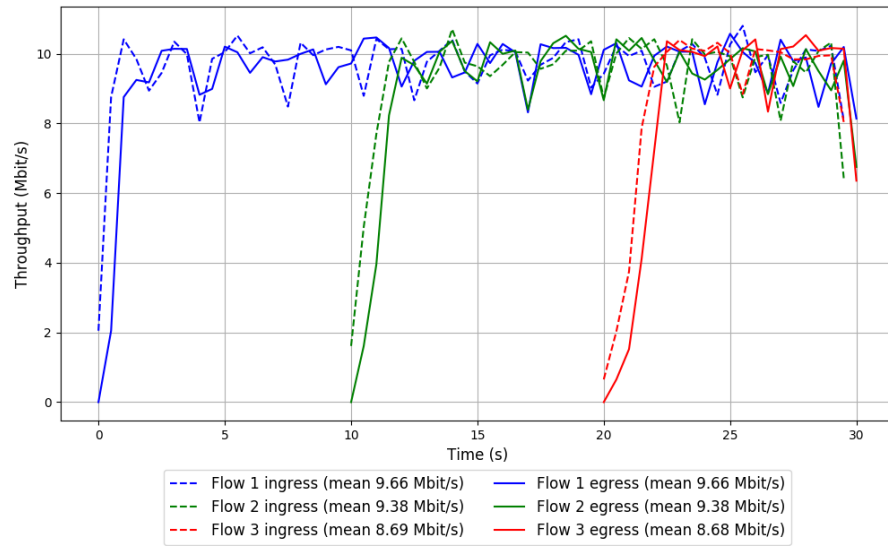


## Run 2: Statistics of Sprout

Start at: 2018-10-26 22:14:59  
End at: 2018-10-26 22:15:29  
Local clock offset: -0.191 ms  
Remote clock offset: -0.071 ms

```
# Below is generated by plot.py at 2018-10-27 02:18:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.73 Mbit/s
95th percentile per-packet one-way delay: 47.754 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 9.66 Mbit/s
95th percentile per-packet one-way delay: 47.819 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 9.38 Mbit/s
95th percentile per-packet one-way delay: 47.661 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 8.68 Mbit/s
95th percentile per-packet one-way delay: 47.606 ms
Loss rate: 1.17%
```

## Run 2: Report of Sprout — Data Link

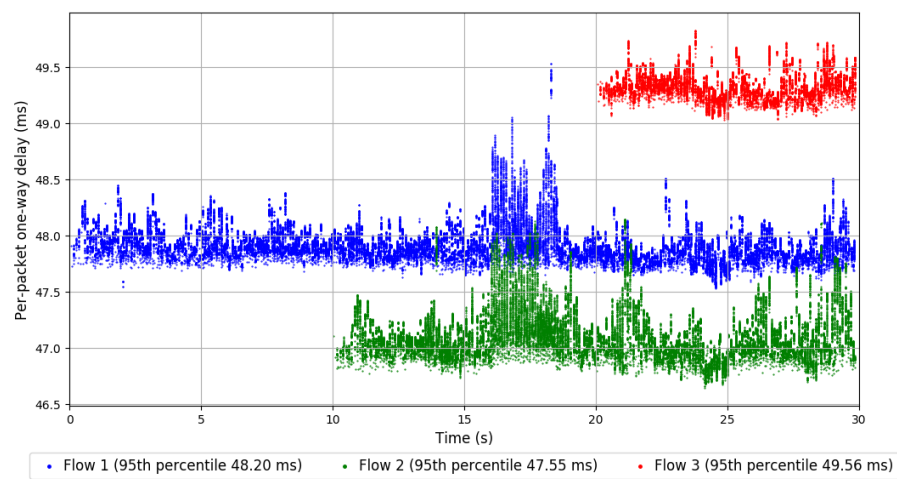
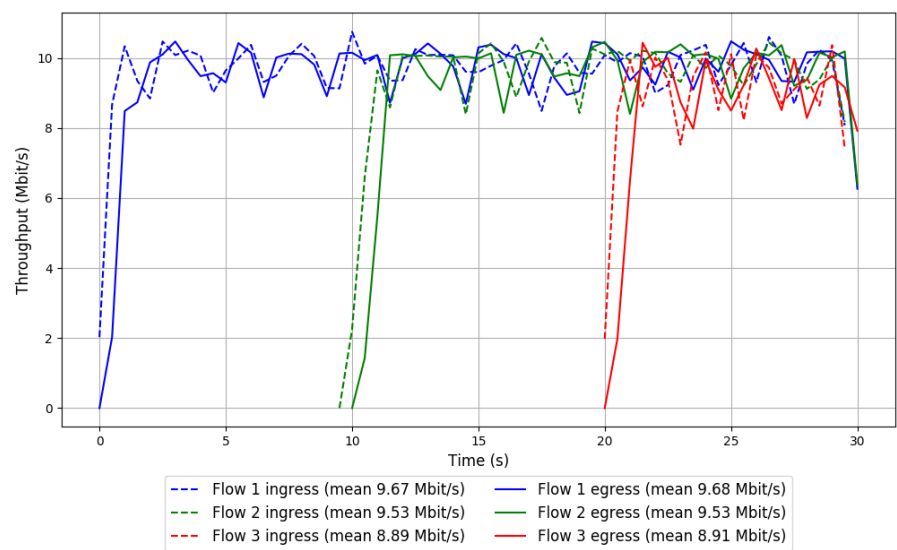


### Run 3: Statistics of Sprout

Start at: 2018-10-26 22:46:17  
End at: 2018-10-26 22:46:47  
Local clock offset: 0.172 ms  
Remote clock offset: -0.098 ms

```
# Below is generated by plot.py at 2018-10-27 02:18:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.92 Mbit/s
95th percentile per-packet one-way delay: 49.365 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 9.68 Mbit/s
95th percentile per-packet one-way delay: 48.204 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 9.53 Mbit/s
95th percentile per-packet one-way delay: 47.550 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 8.91 Mbit/s
95th percentile per-packet one-way delay: 49.556 ms
Loss rate: 0.85%
```

Run 3: Report of Sprout — Data Link

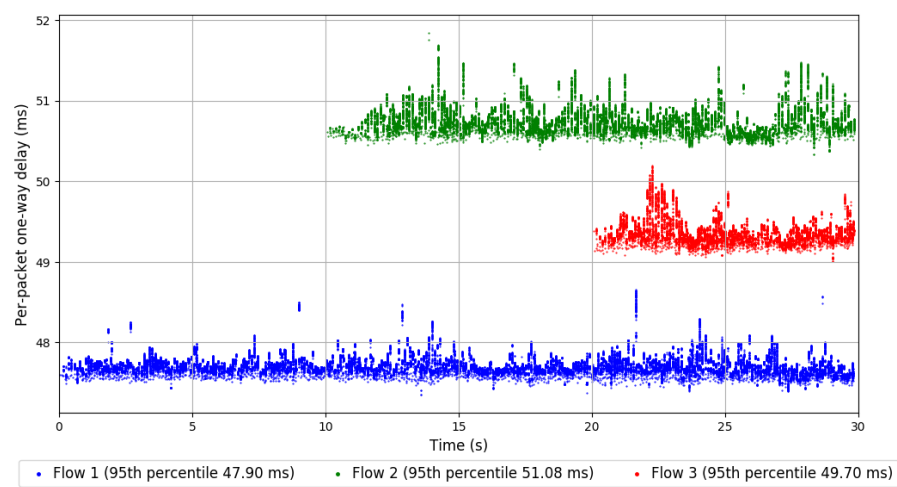
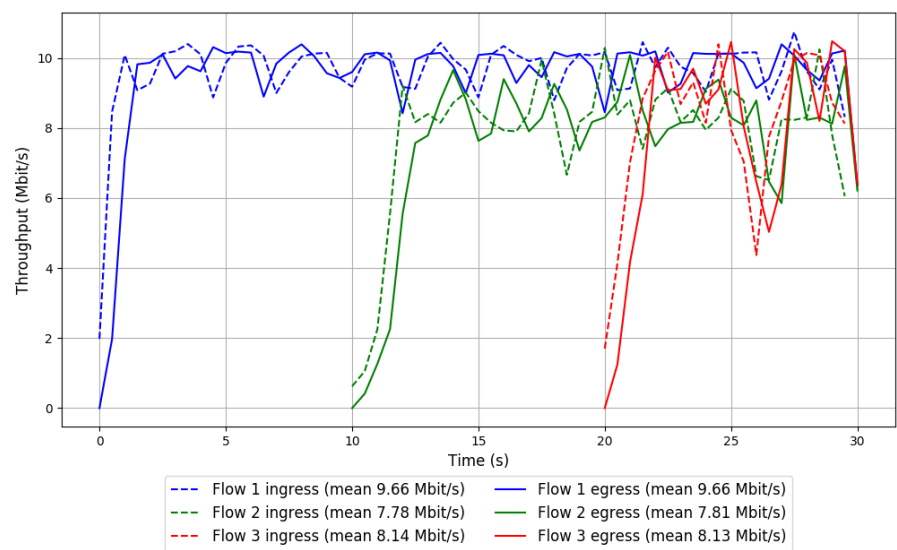


#### Run 4: Statistics of Sprout

Start at: 2018-10-26 23:17:29  
End at: 2018-10-26 23:17:59  
Local clock offset: 0.22 ms  
Remote clock offset: -0.285 ms

```
# Below is generated by plot.py at 2018-10-27 02:18:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.51 Mbit/s
95th percentile per-packet one-way delay: 50.900 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 9.66 Mbit/s
95th percentile per-packet one-way delay: 47.901 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 51.077 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 8.13 Mbit/s
95th percentile per-packet one-way delay: 49.697 ms
Loss rate: 1.21%
```

Run 4: Report of Sprout — Data Link



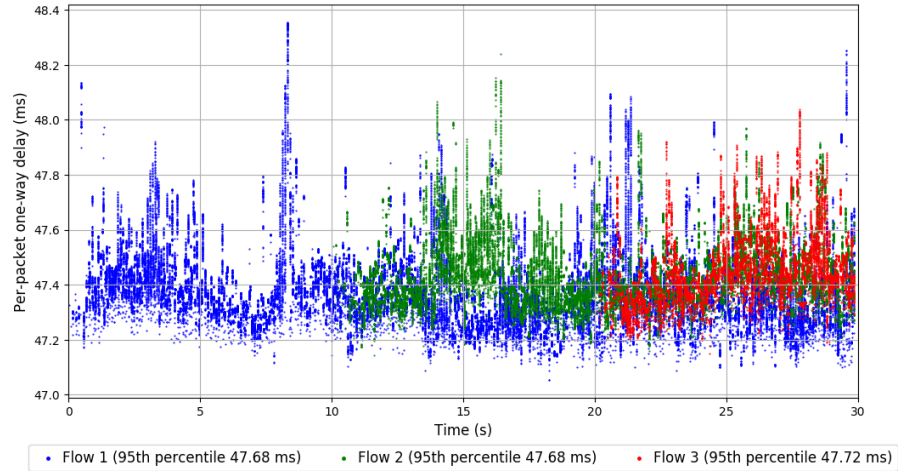
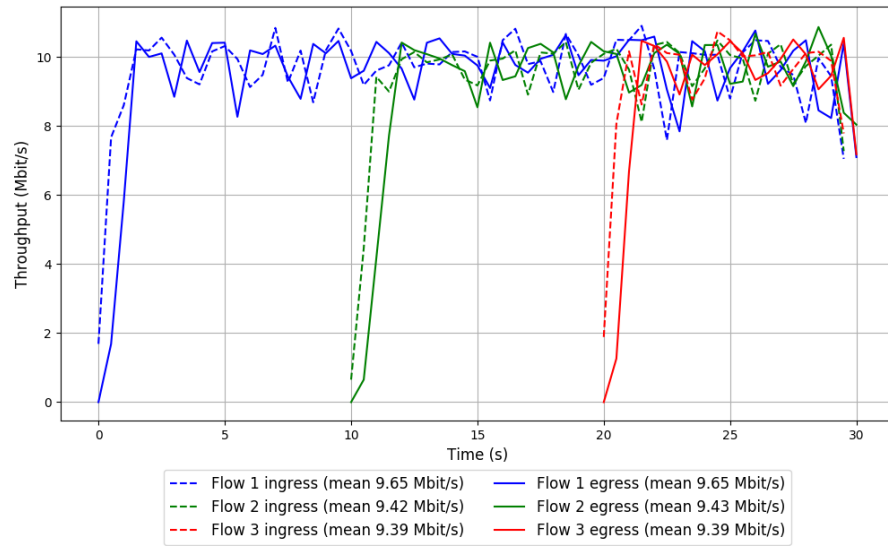


Run 5: Statistics of Sprout

Start at: 2018-10-26 23:48:37  
End at: 2018-10-26 23:49:07  
Local clock offset: -0.088 ms  
Remote clock offset: 0.034 ms

```
# Below is generated by plot.py at 2018-10-27 02:18:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.99 Mbit/s
95th percentile per-packet one-way delay: 47.685 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 9.65 Mbit/s
95th percentile per-packet one-way delay: 47.678 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 9.43 Mbit/s
95th percentile per-packet one-way delay: 47.676 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 9.39 Mbit/s
95th percentile per-packet one-way delay: 47.717 ms
Loss rate: 1.06%
```

## Run 5: Report of Sprout — Data Link

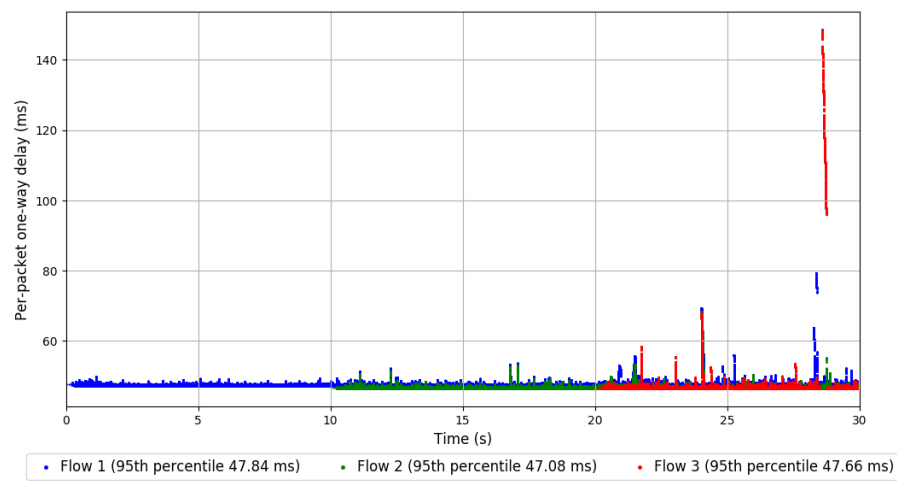
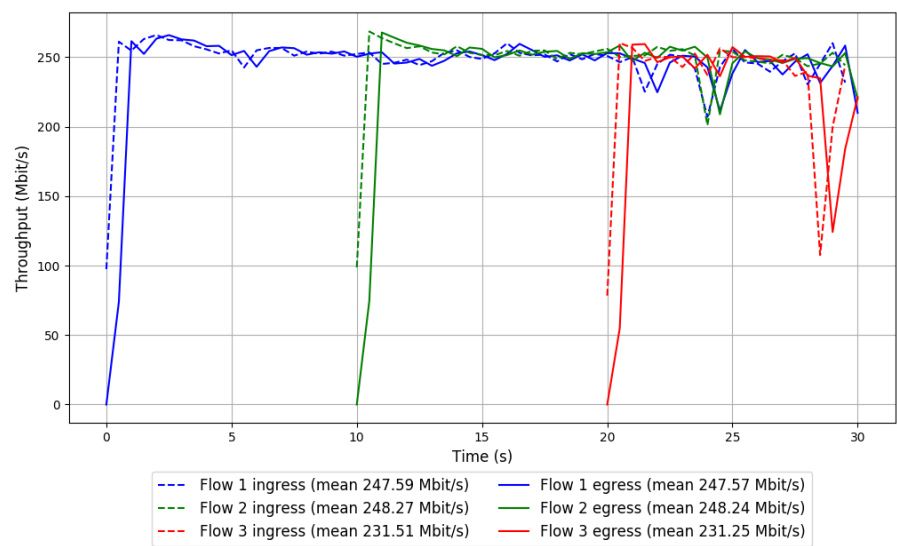


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-10-26 21:28:31
End at: 2018-10-26 21:29:01
Local clock offset: -0.073 ms
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2018-10-27 02:27:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 488.89 Mbit/s
95th percentile per-packet one-way delay: 47.675 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 247.57 Mbit/s
95th percentile per-packet one-way delay: 47.835 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 248.24 Mbit/s
95th percentile per-packet one-way delay: 47.084 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 231.25 Mbit/s
95th percentile per-packet one-way delay: 47.664 ms
Loss rate: 1.05%
```

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

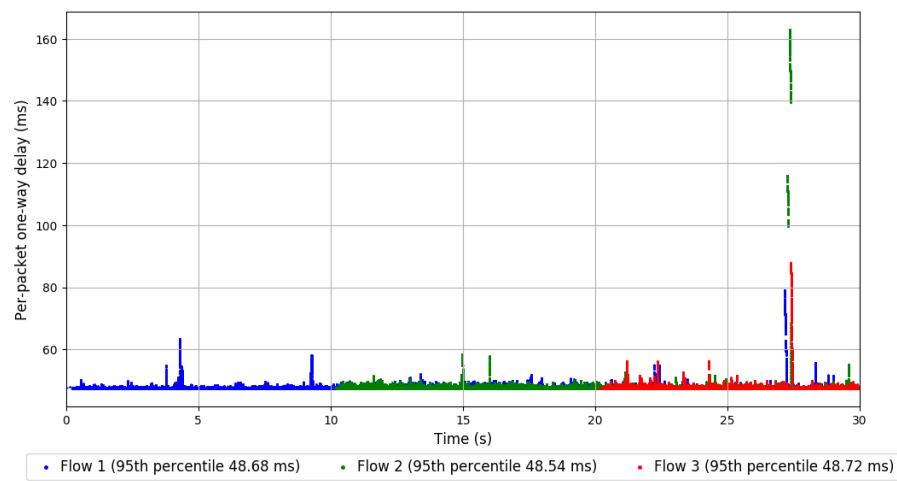
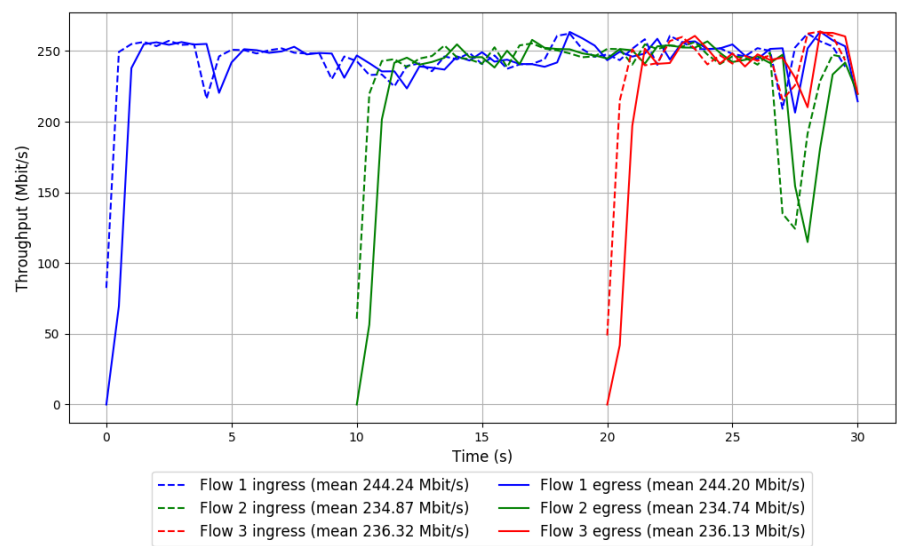


Run 2: Statistics of TaoVA-100x

Start at: 2018-10-26 21:59:53  
End at: 2018-10-26 22:00:23  
Local clock offset: 0.234 ms  
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2018-10-27 02:27:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 478.16 Mbit/s  
95th percentile per-packet one-way delay: 48.639 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 244.20 Mbit/s  
95th percentile per-packet one-way delay: 48.677 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 234.74 Mbit/s  
95th percentile per-packet one-way delay: 48.539 ms  
Loss rate: 0.54%  
-- Flow 3:  
Average throughput: 236.13 Mbit/s  
95th percentile per-packet one-way delay: 48.724 ms  
Loss rate: 1.02%

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

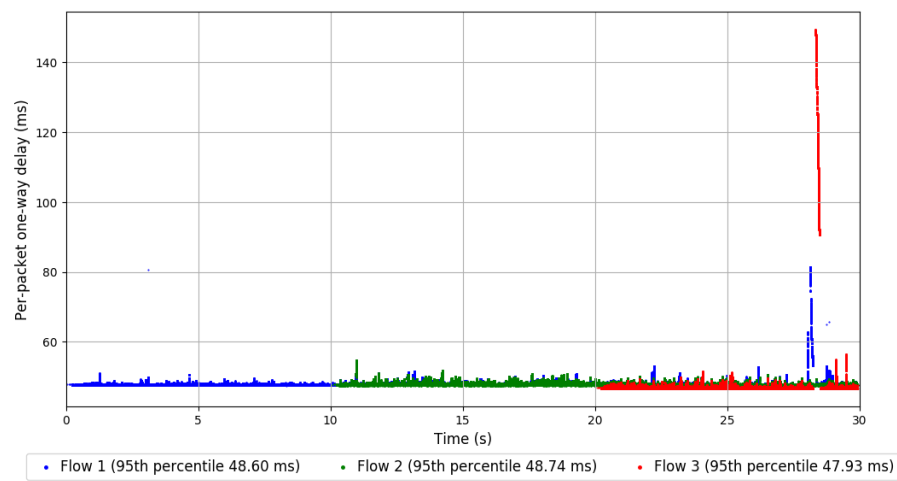
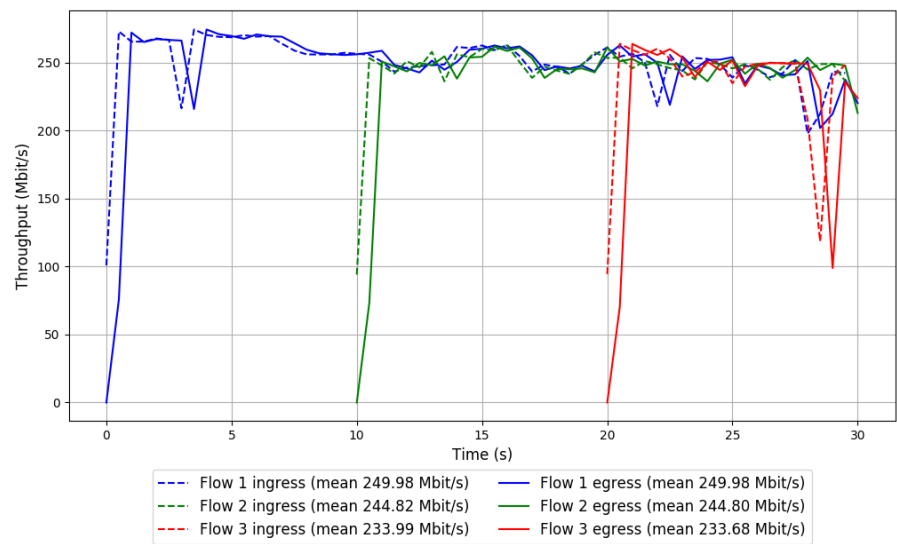


Run 3: Statistics of TaoVA-100x

Start at: 2018-10-26 22:30:57  
End at: 2018-10-26 22:31:27  
Local clock offset: 0.208 ms  
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2018-10-27 02:27:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 489.99 Mbit/s  
95th percentile per-packet one-way delay: 48.635 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 249.98 Mbit/s  
95th percentile per-packet one-way delay: 48.600 ms  
Loss rate: 0.32%  
-- Flow 2:  
Average throughput: 244.80 Mbit/s  
95th percentile per-packet one-way delay: 48.739 ms  
Loss rate: 0.49%  
-- Flow 3:  
Average throughput: 233.68 Mbit/s  
95th percentile per-packet one-way delay: 47.926 ms  
Loss rate: 1.07%

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



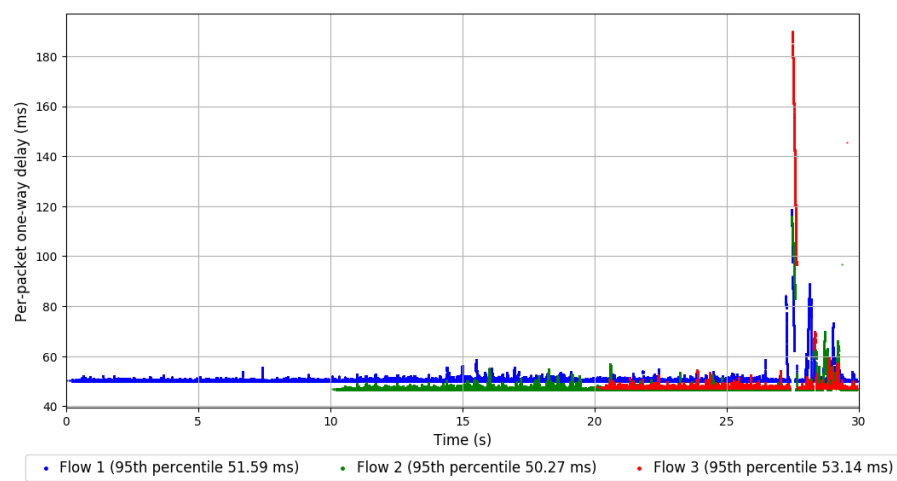
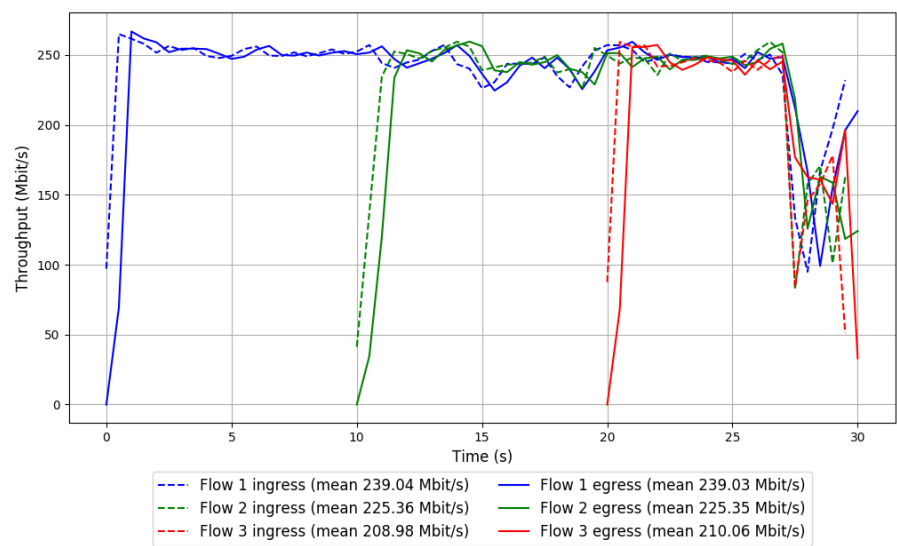


Run 4: Statistics of TaoVA-100x

Start at: 2018-10-26 23:02:14  
End at: 2018-10-26 23:02:44  
Local clock offset: 0.206 ms  
Remote clock offset: -0.222 ms

# Below is generated by plot.py at 2018-10-27 02:27:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 458.26 Mbit/s  
95th percentile per-packet one-way delay: 51.490 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 239.03 Mbit/s  
95th percentile per-packet one-way delay: 51.585 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 225.35 Mbit/s  
95th percentile per-packet one-way delay: 50.272 ms  
Loss rate: 0.48%  
-- Flow 3:  
Average throughput: 210.06 Mbit/s  
95th percentile per-packet one-way delay: 53.138 ms  
Loss rate: 0.43%

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

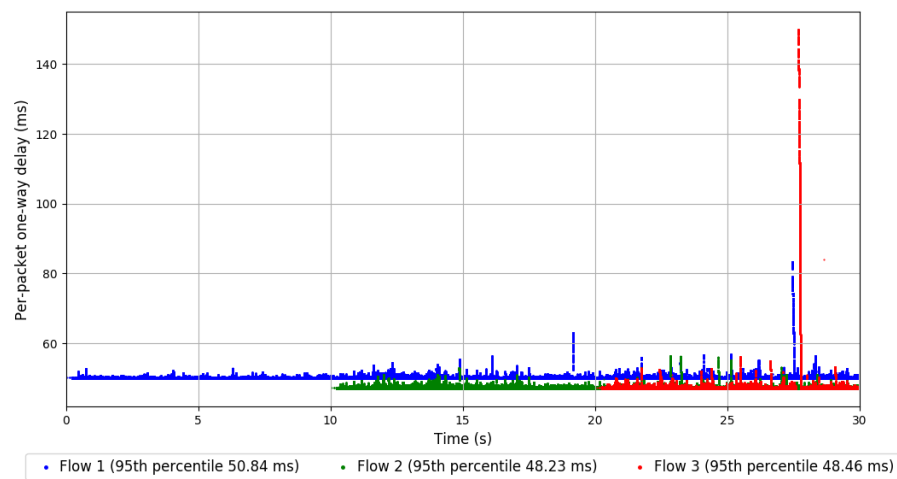
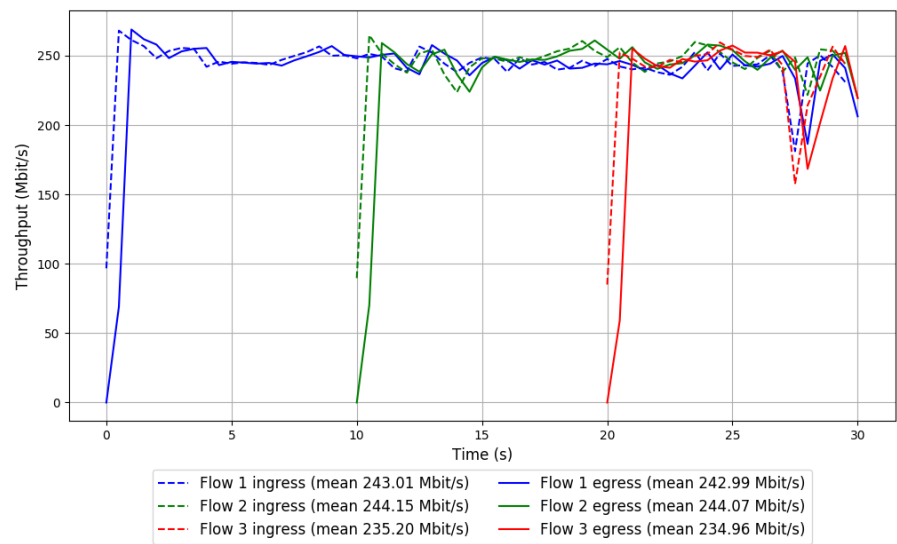


Run 5: Statistics of TaoVA-100x

Start at: 2018-10-26 23:33:24  
End at: 2018-10-26 23:33:54  
Local clock offset: -0.1 ms  
Remote clock offset: -0.247 ms

# Below is generated by plot.py at 2018-10-27 02:27:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 482.78 Mbit/s  
95th percentile per-packet one-way delay: 50.499 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 242.99 Mbit/s  
95th percentile per-packet one-way delay: 50.841 ms  
Loss rate: 0.34%  
-- Flow 2:  
Average throughput: 244.07 Mbit/s  
95th percentile per-packet one-way delay: 48.233 ms  
Loss rate: 0.51%  
-- Flow 3:  
Average throughput: 234.96 Mbit/s  
95th percentile per-packet one-way delay: 48.459 ms  
Loss rate: 1.06%

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

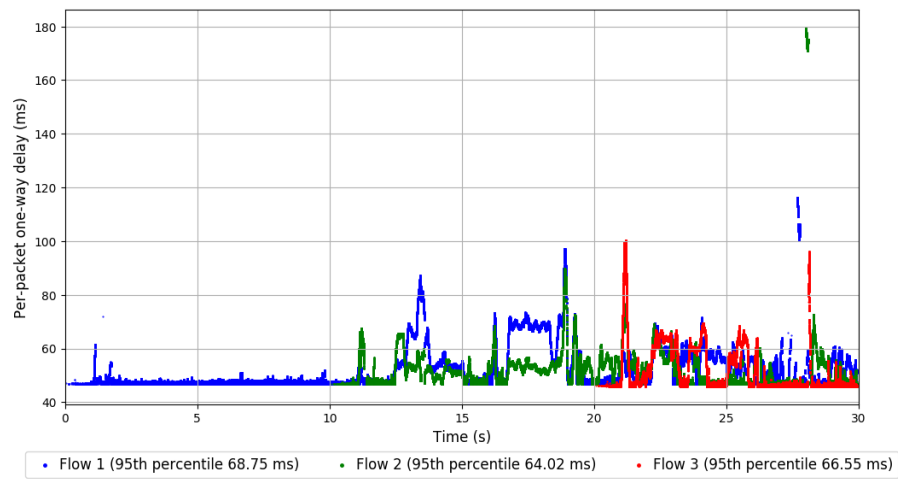
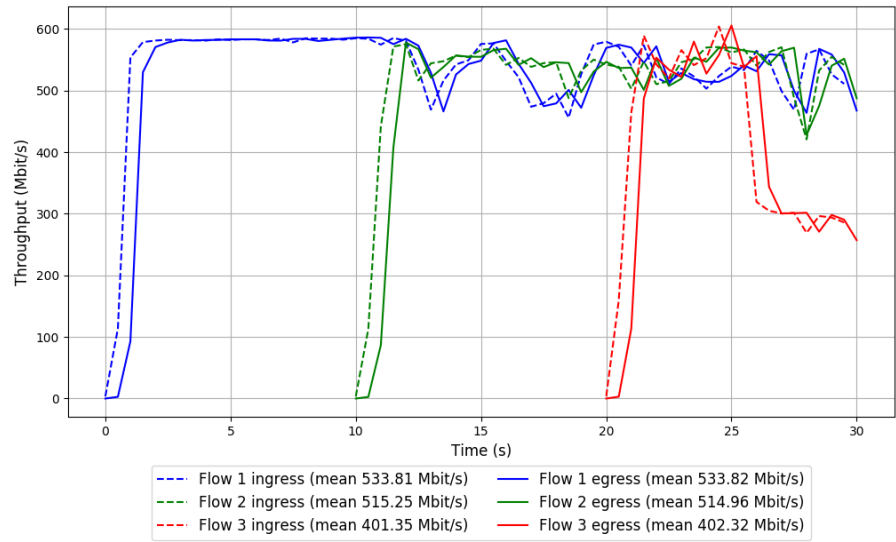


Run 1: Statistics of TCP Vegas

Start at: 2018-10-26 21:32:32  
End at: 2018-10-26 21:33:02  
Local clock offset: -0.486 ms  
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2018-10-27 02:33:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1009.10 Mbit/s  
95th percentile per-packet one-way delay: 67.659 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 533.82 Mbit/s  
95th percentile per-packet one-way delay: 68.747 ms  
Loss rate: 0.32%  
-- Flow 2:  
Average throughput: 514.96 Mbit/s  
95th percentile per-packet one-way delay: 64.021 ms  
Loss rate: 0.53%  
-- Flow 3:  
Average throughput: 402.32 Mbit/s  
95th percentile per-packet one-way delay: 66.545 ms  
Loss rate: 0.70%

# Run 1: Report of TCP Vegas — Data Link

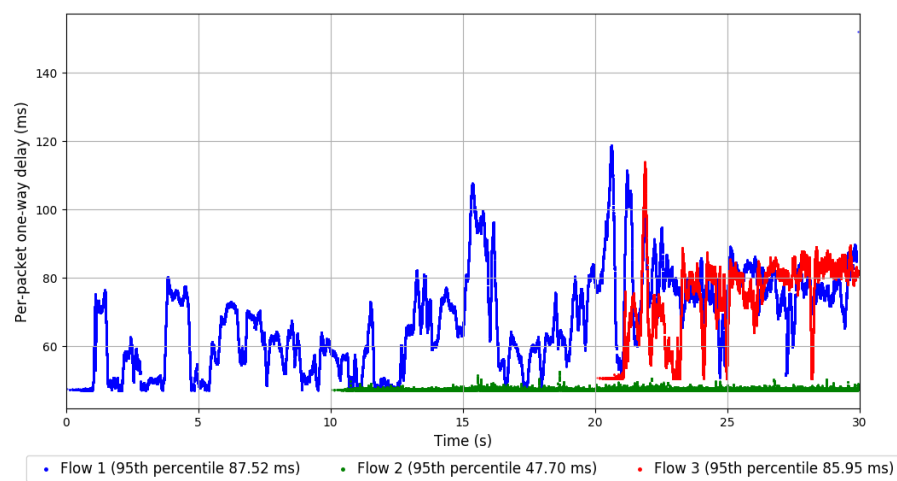
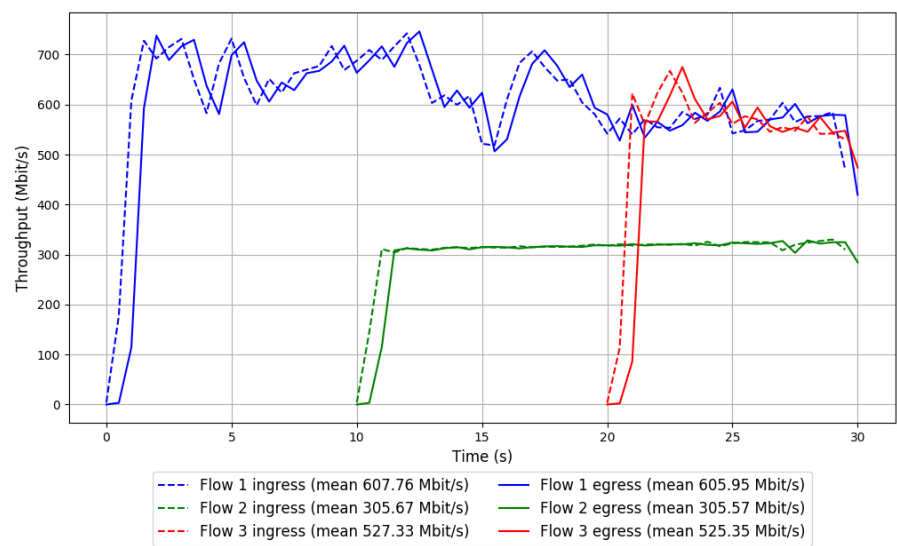


Run 2: Statistics of TCP Vegas

Start at: 2018-10-26 22:03:46  
End at: 2018-10-26 22:04:16  
Local clock offset: -0.176 ms  
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2018-10-27 02:34:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 982.33 Mbit/s  
95th percentile per-packet one-way delay: 85.452 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 605.95 Mbit/s  
95th percentile per-packet one-way delay: 87.523 ms  
Loss rate: 0.39%  
-- Flow 2:  
Average throughput: 305.57 Mbit/s  
95th percentile per-packet one-way delay: 47.702 ms  
Loss rate: 0.51%  
-- Flow 3:  
Average throughput: 525.35 Mbit/s  
95th percentile per-packet one-way delay: 85.953 ms  
Loss rate: 1.35%

Run 2: Report of TCP Vegas — Data Link



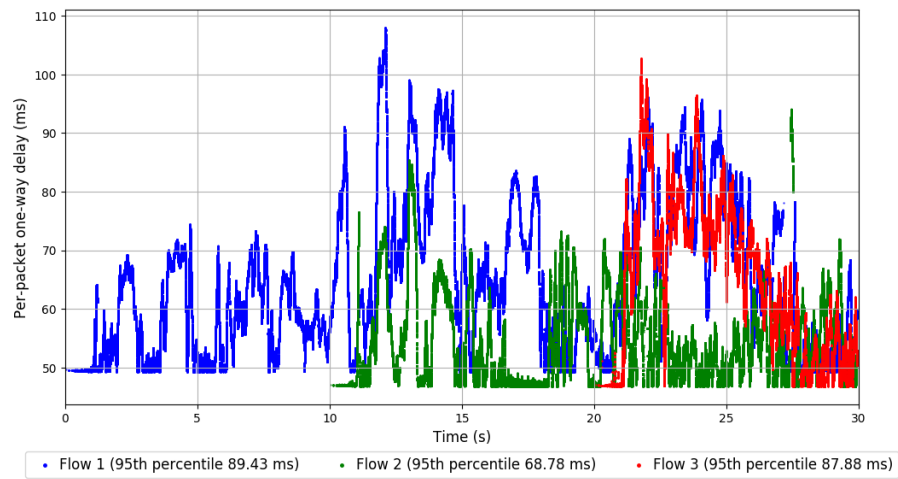
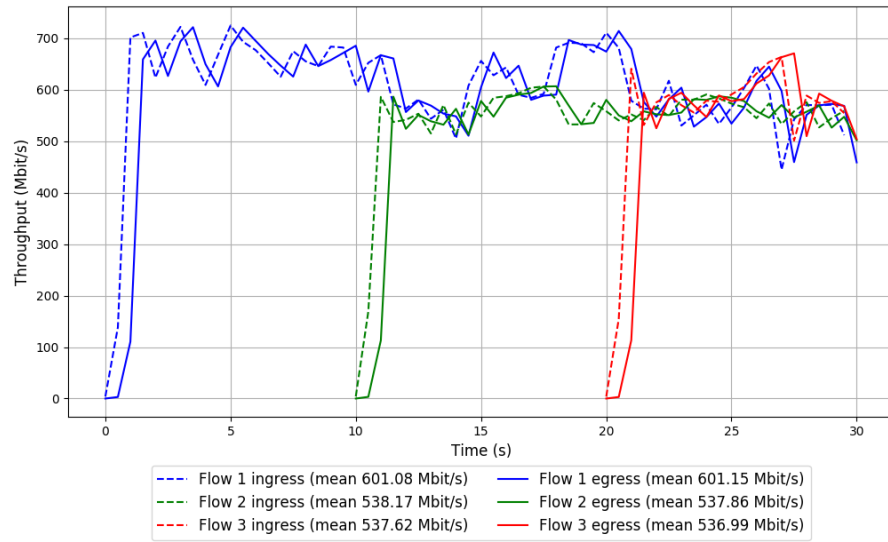


Run 3: Statistics of TCP Vegas

Start at: 2018-10-26 22:34:53  
End at: 2018-10-26 22:35:23  
Local clock offset: -0.536 ms  
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2018-10-27 02:40:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1136.32 Mbit/s  
95th percentile per-packet one-way delay: 86.153 ms  
Loss rate: 0.50%  
-- Flow 1:  
Average throughput: 601.15 Mbit/s  
95th percentile per-packet one-way delay: 89.426 ms  
Loss rate: 0.32%  
-- Flow 2:  
Average throughput: 537.86 Mbit/s  
95th percentile per-packet one-way delay: 68.778 ms  
Loss rate: 0.53%  
-- Flow 3:  
Average throughput: 536.99 Mbit/s  
95th percentile per-packet one-way delay: 87.880 ms  
Loss rate: 1.07%

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

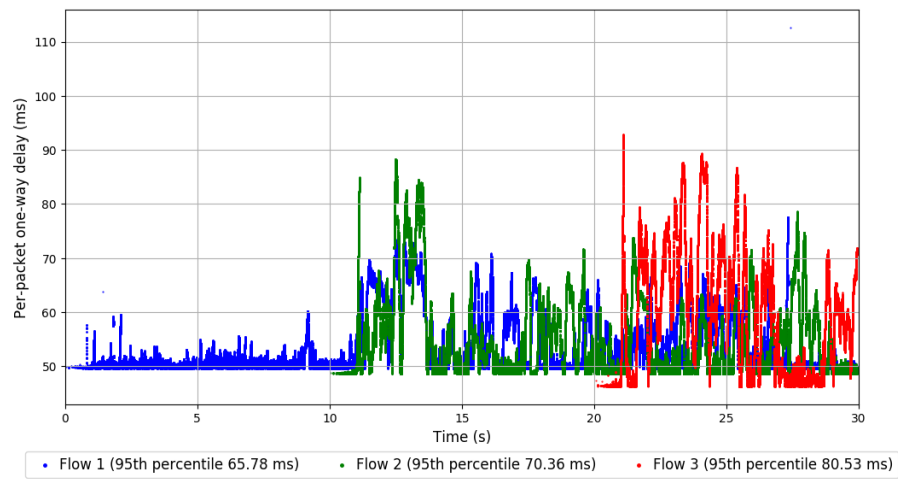
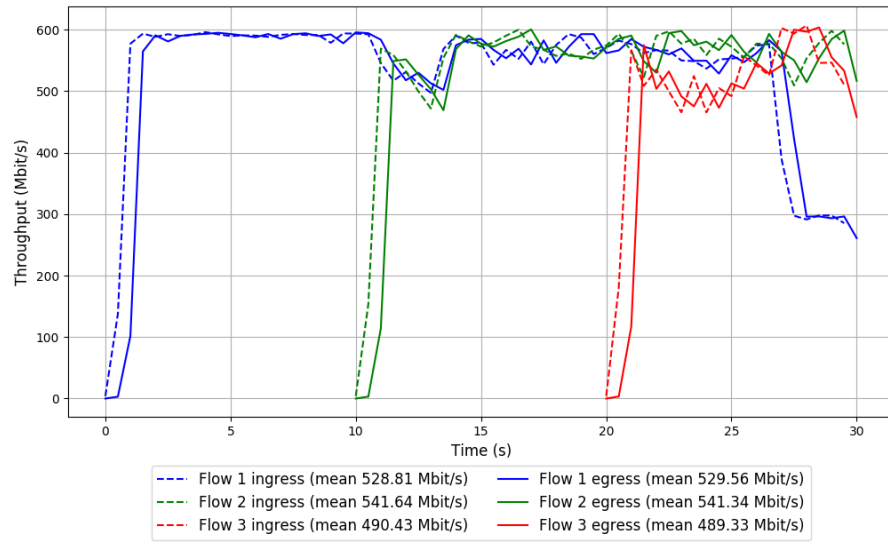


Run 4: Statistics of TCP Vegas

Start at: 2018-10-26 23:06:01  
End at: 2018-10-26 23:06:31  
Local clock offset: -0.153 ms  
Remote clock offset: -0.228 ms

# Below is generated by plot.py at 2018-10-27 02:45:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1051.44 Mbit/s  
95th percentile per-packet one-way delay: 70.189 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 529.56 Mbit/s  
95th percentile per-packet one-way delay: 65.778 ms  
Loss rate: 0.18%  
-- Flow 2:  
Average throughput: 541.34 Mbit/s  
95th percentile per-packet one-way delay: 70.359 ms  
Loss rate: 0.54%  
-- Flow 3:  
Average throughput: 489.33 Mbit/s  
95th percentile per-packet one-way delay: 80.532 ms  
Loss rate: 1.17%

# Run 4: Report of TCP Vegas — Data Link

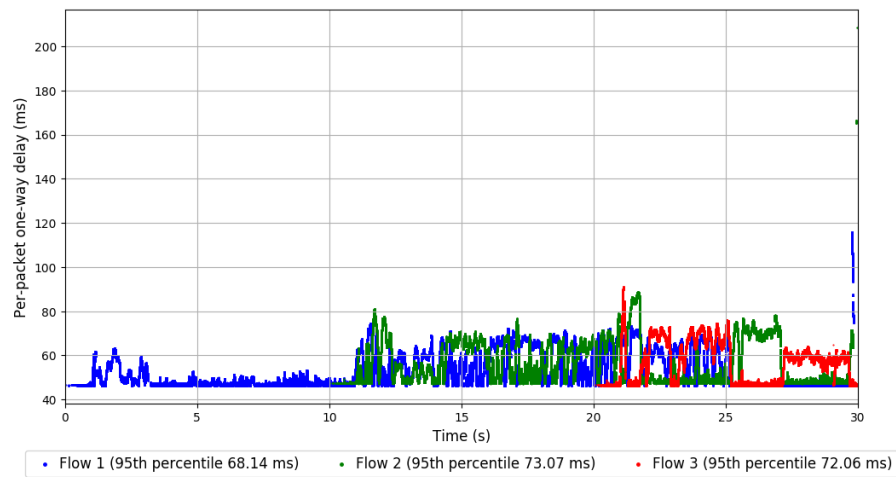
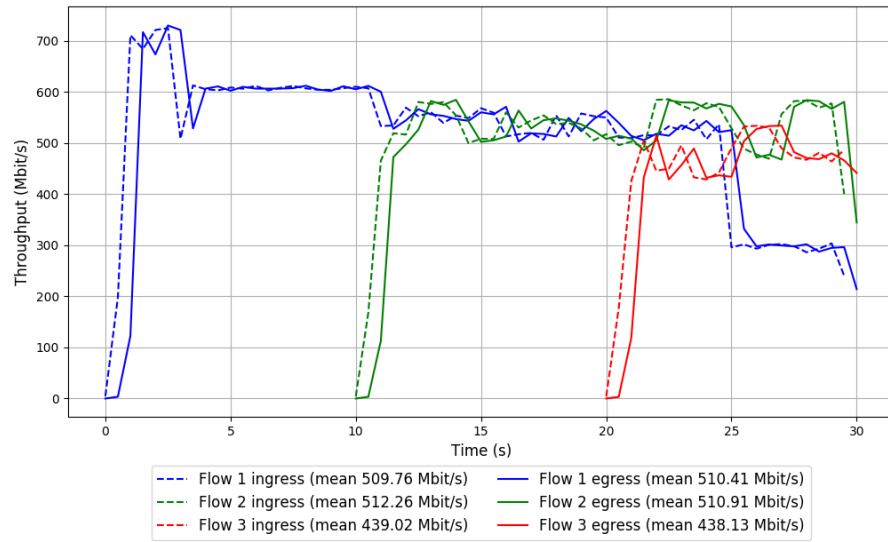


Run 5: Statistics of TCP Vegas

Start at: 2018-10-26 23:37:18  
End at: 2018-10-26 23:37:48  
Local clock offset: -0.063 ms  
Remote clock offset: -0.168 ms

# Below is generated by plot.py at 2018-10-27 02:45:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 994.32 Mbit/s  
95th percentile per-packet one-way delay: 70.803 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 510.41 Mbit/s  
95th percentile per-packet one-way delay: 68.139 ms  
Loss rate: 0.19%  
-- Flow 2:  
Average throughput: 510.91 Mbit/s  
95th percentile per-packet one-way delay: 73.072 ms  
Loss rate: 0.53%  
-- Flow 3:  
Average throughput: 438.13 Mbit/s  
95th percentile per-packet one-way delay: 72.056 ms  
Loss rate: 1.14%

# Run 5: Report of TCP Vegas — Data Link

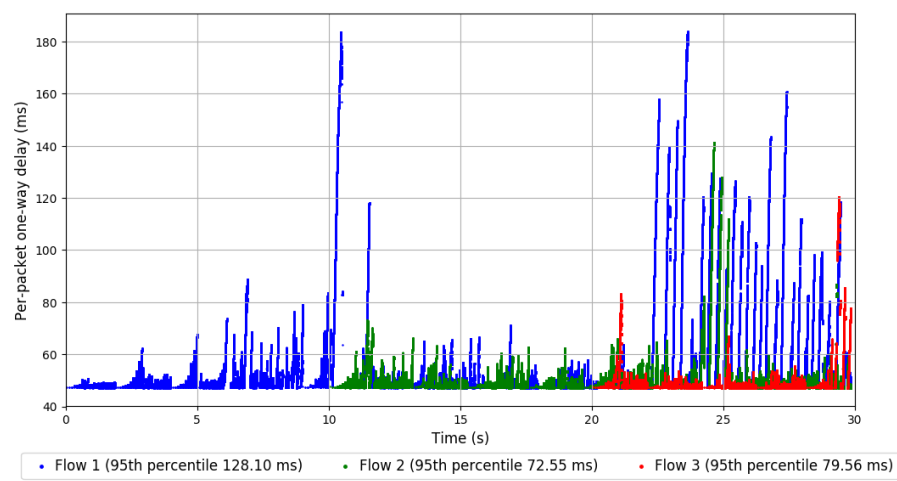
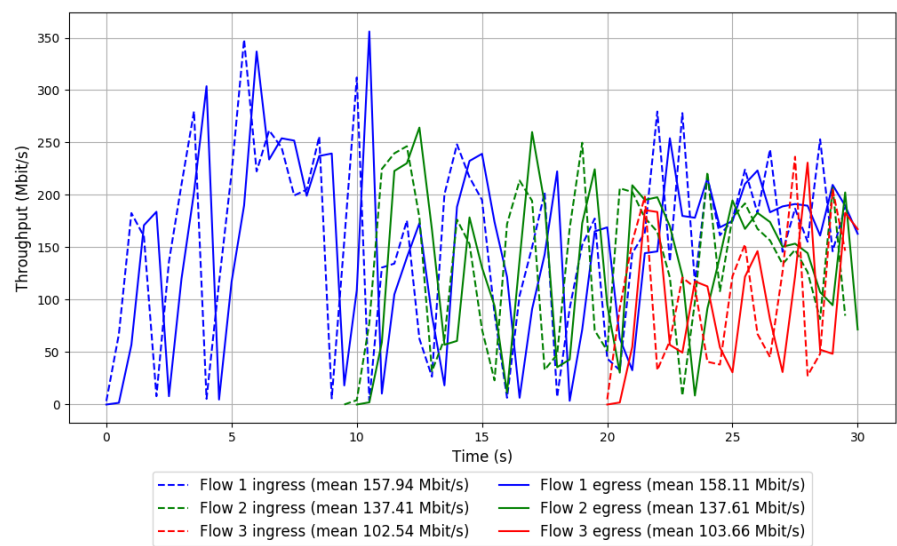


Run 1: Statistics of Verus

Start at: 2018-10-26 21:51:59  
End at: 2018-10-26 21:52:29  
Local clock offset: -0.115 ms  
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2018-10-27 02:45:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 283.62 Mbit/s  
95th percentile per-packet one-way delay: 113.797 ms  
Loss rate: 0.33%  
-- Flow 1:  
Average throughput: 158.11 Mbit/s  
95th percentile per-packet one-way delay: 128.100 ms  
Loss rate: 0.27%  
-- Flow 2:  
Average throughput: 137.61 Mbit/s  
95th percentile per-packet one-way delay: 72.548 ms  
Loss rate: 0.50%  
-- Flow 3:  
Average throughput: 103.66 Mbit/s  
95th percentile per-packet one-way delay: 79.558 ms  
Loss rate: 0.08%

Run 1: Report of Verus — Data Link



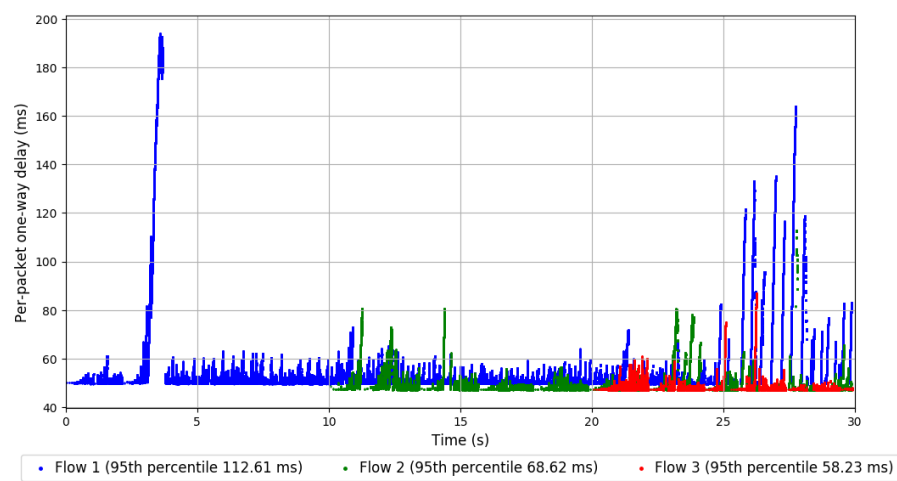
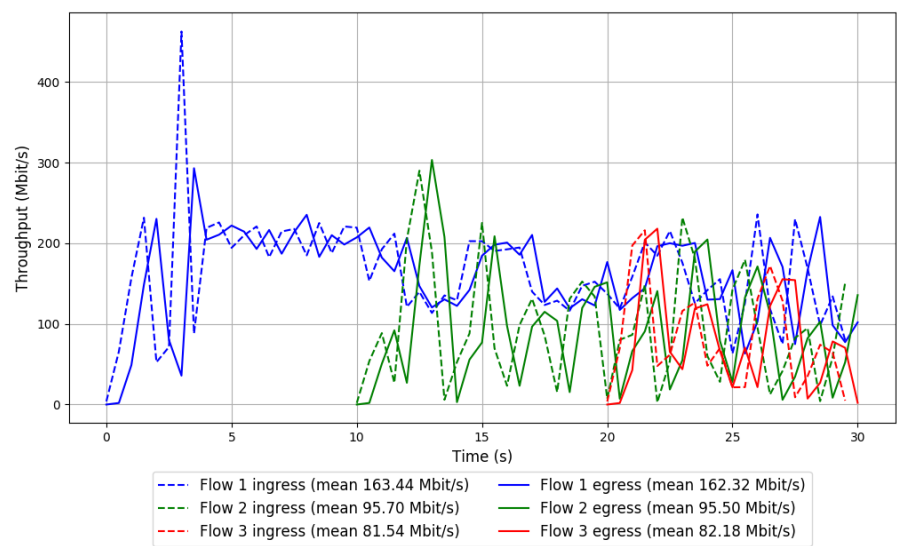


Run 2: Statistics of Verus

Start at: 2018-10-26 22:23:15  
End at: 2018-10-26 22:23:45  
Local clock offset: -0.217 ms  
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2018-10-27 02:45:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 252.69 Mbit/s  
95th percentile per-packet one-way delay: 93.450 ms  
Loss rate: 0.88%  
-- Flow 1:  
Average throughput: 162.32 Mbit/s  
95th percentile per-packet one-way delay: 112.612 ms  
Loss rate: 1.10%  
-- Flow 2:  
Average throughput: 95.50 Mbit/s  
95th percentile per-packet one-way delay: 68.617 ms  
Loss rate: 0.62%  
-- Flow 3:  
Average throughput: 82.18 Mbit/s  
95th percentile per-packet one-way delay: 58.231 ms  
Loss rate: 0.17%

Run 2: Report of Verus — Data Link

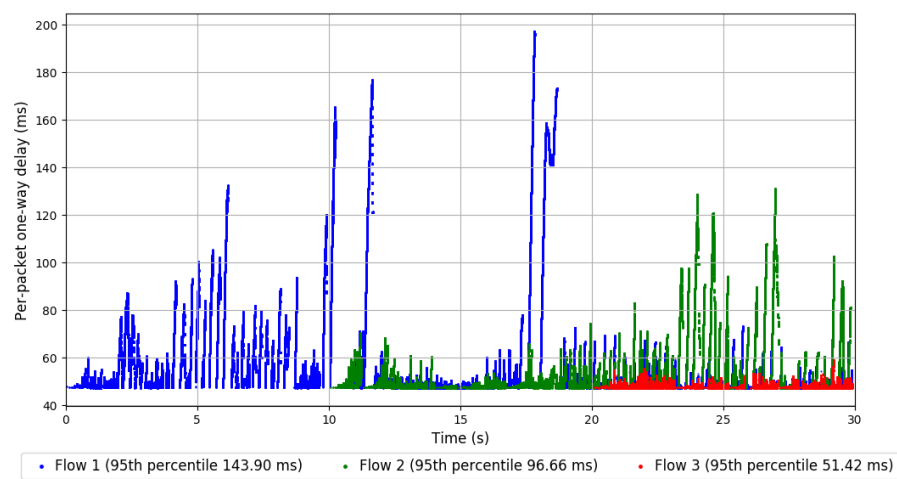
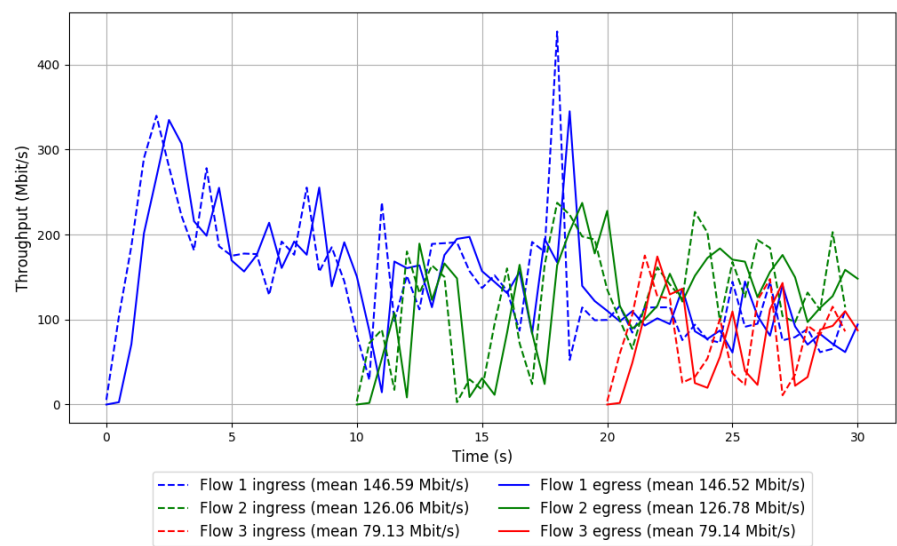


Run 3: Statistics of Verus

Start at: 2018-10-26 22:54:28  
End at: 2018-10-26 22:54:58  
Local clock offset: -0.15 ms  
Remote clock offset: -0.132 ms

# Below is generated by plot.py at 2018-10-27 02:45:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 256.55 Mbit/s  
95th percentile per-packet one-way delay: 115.670 ms  
Loss rate: 0.33%  
-- Flow 1:  
Average throughput: 146.52 Mbit/s  
95th percentile per-packet one-way delay: 143.901 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 126.78 Mbit/s  
95th percentile per-packet one-way delay: 96.661 ms  
Loss rate: 0.25%  
-- Flow 3:  
Average throughput: 79.14 Mbit/s  
95th percentile per-packet one-way delay: 51.419 ms  
Loss rate: 0.34%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-10-26 23:25:42

End at: 2018-10-26 23:26:12

Local clock offset: -0.135 ms

Remote clock offset: -0.29 ms

# Below is generated by plot.py at 2018-10-27 02:45:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 278.54 Mbit/s

95th percentile per-packet one-way delay: 126.062 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 161.75 Mbit/s

95th percentile per-packet one-way delay: 152.435 ms

Loss rate: 1.19%

-- Flow 2:

Average throughput: 127.28 Mbit/s

95th percentile per-packet one-way delay: 54.593 ms

Loss rate: 0.00%

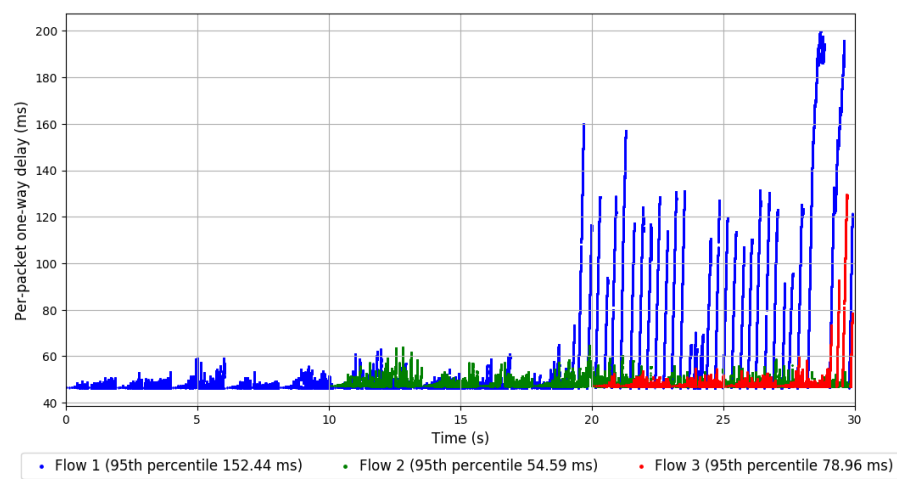
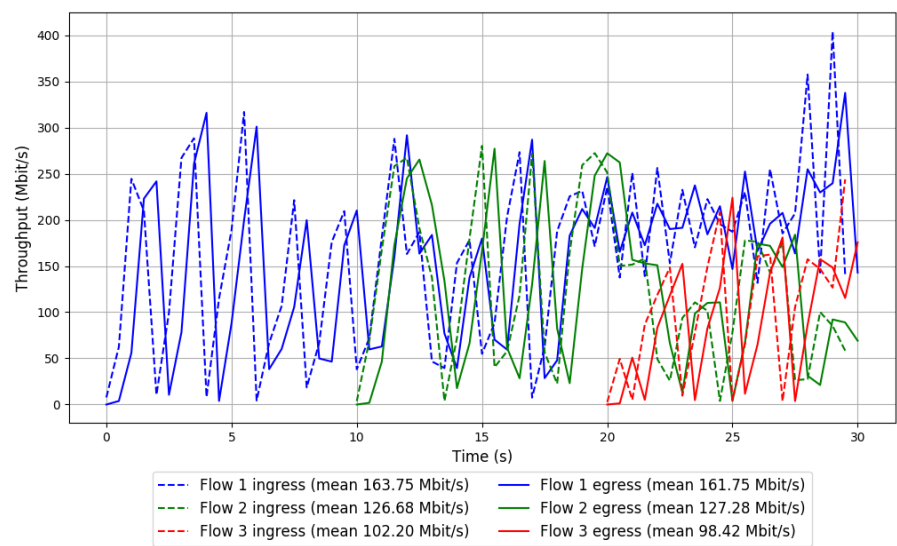
-- Flow 3:

Average throughput: 98.42 Mbit/s

95th percentile per-packet one-way delay: 78.956 ms

Loss rate: 4.77%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-10-26 23:56:52

End at: 2018-10-26 23:57:22

Local clock offset: -0.086 ms

Remote clock offset: 0.096 ms

# Below is generated by plot.py at 2018-10-27 02:45:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 284.75 Mbit/s

95th percentile per-packet one-way delay: 85.065 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 165.26 Mbit/s

95th percentile per-packet one-way delay: 78.504 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 111.39 Mbit/s

95th percentile per-packet one-way delay: 65.244 ms

Loss rate: 0.00%

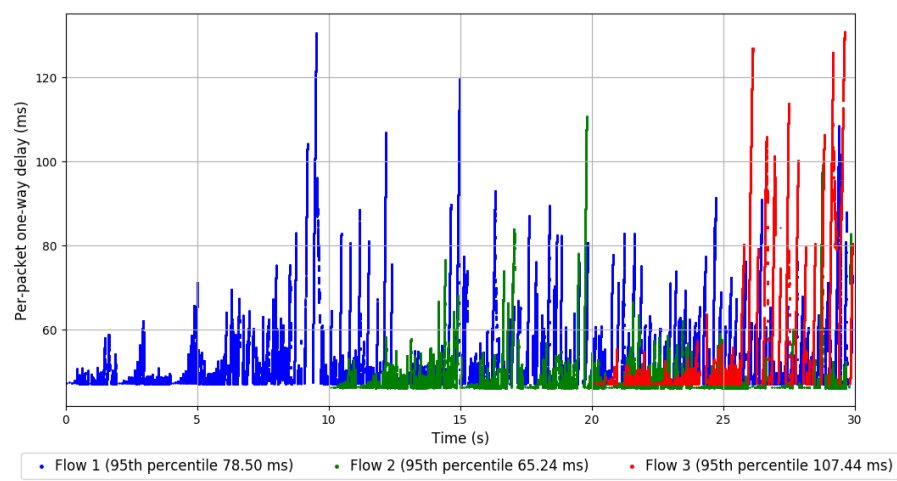
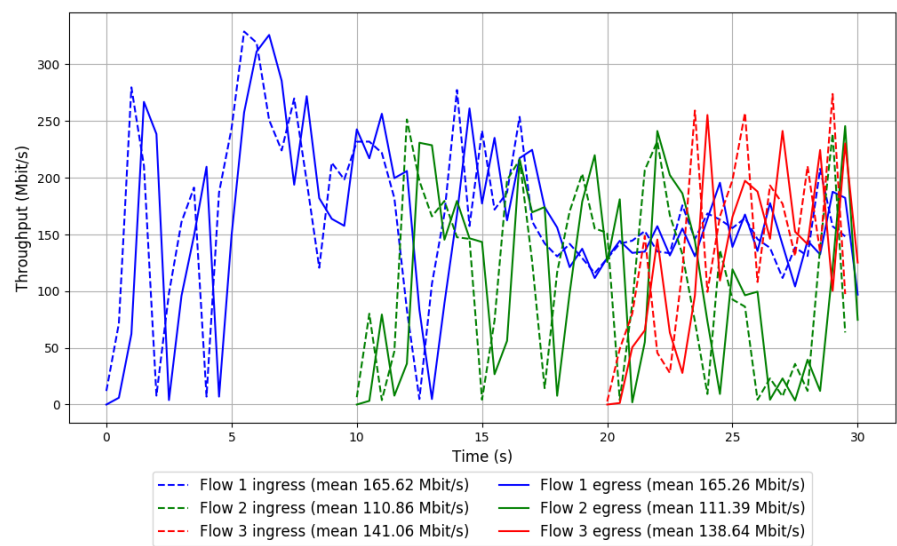
-- Flow 3:

Average throughput: 138.64 Mbit/s

95th percentile per-packet one-way delay: 107.445 ms

Loss rate: 1.79%

Run 5: Report of Verus — Data Link



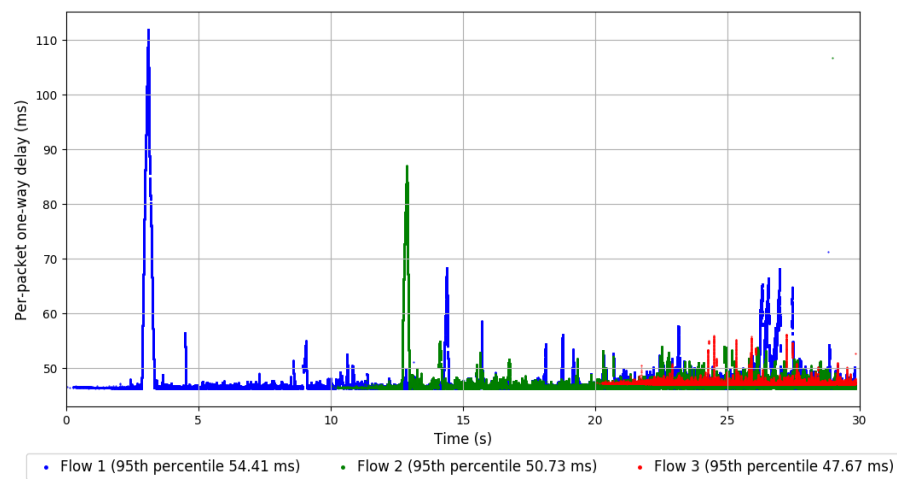
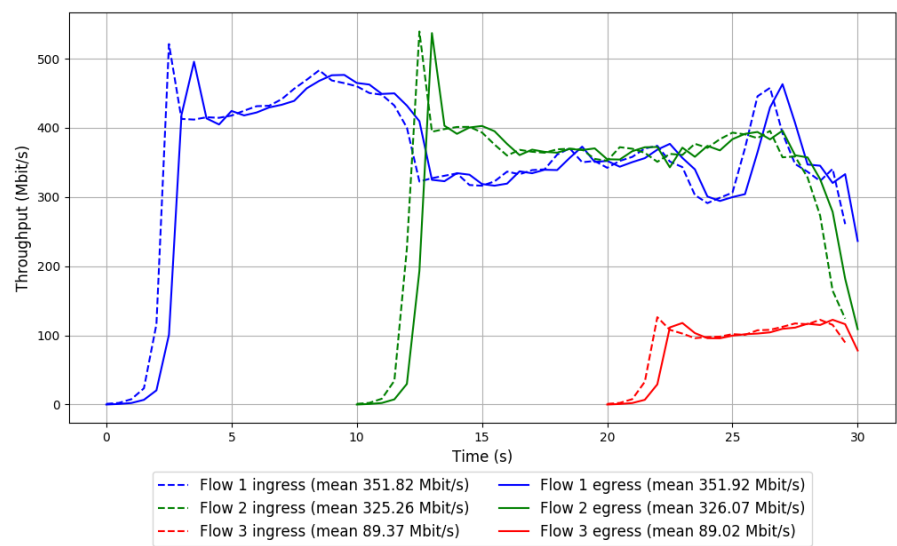


Run 1: Statistics of PCC-Vivace

Start at: 2018-10-26 21:54:45  
End at: 2018-10-26 21:55:15  
Local clock offset: -0.09 ms  
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2018-10-27 02:46:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 597.55 Mbit/s  
95th percentile per-packet one-way delay: 52.263 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 351.92 Mbit/s  
95th percentile per-packet one-way delay: 54.414 ms  
Loss rate: 0.29%  
-- Flow 2:  
Average throughput: 326.07 Mbit/s  
95th percentile per-packet one-way delay: 50.727 ms  
Loss rate: 0.23%  
-- Flow 3:  
Average throughput: 89.02 Mbit/s  
95th percentile per-packet one-way delay: 47.673 ms  
Loss rate: 1.28%

Run 1: Report of PCC-Vivace — Data Link

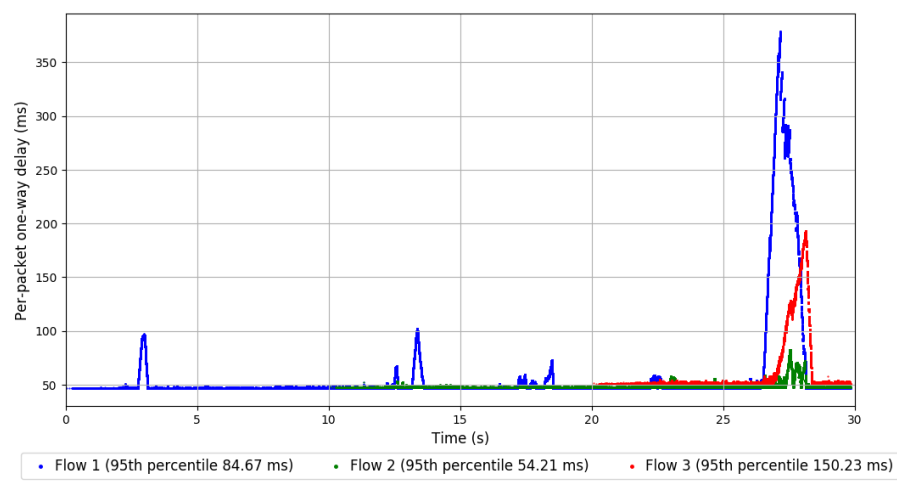
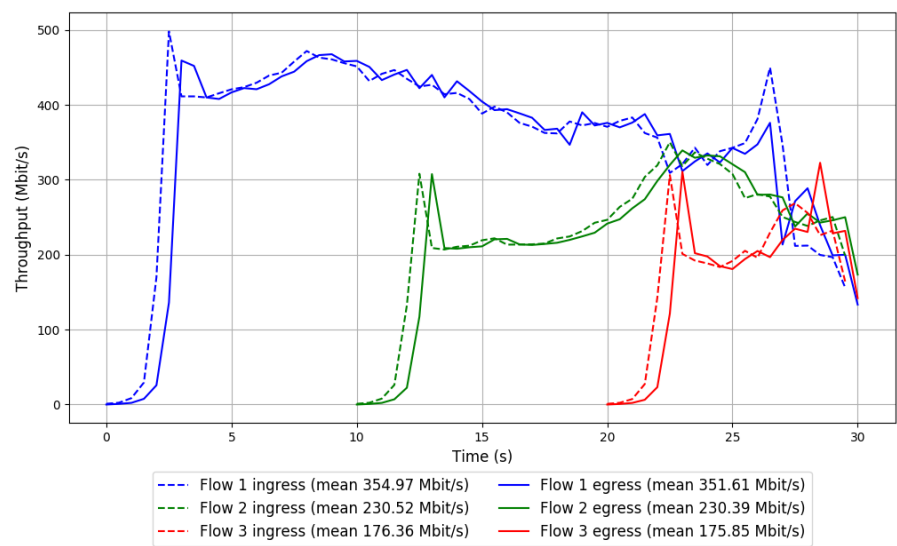


Run 2: Statistics of PCC-Vivace

Start at: 2018-10-26 22:25:59  
End at: 2018-10-26 22:26:29  
Local clock offset: 0.161 ms  
Remote clock offset: -0.105 ms

# Below is generated by plot.py at 2018-10-27 02:46:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 562.24 Mbit/s  
95th percentile per-packet one-way delay: 80.845 ms  
Loss rate: 1.07%  
-- Flow 1:  
Average throughput: 351.61 Mbit/s  
95th percentile per-packet one-way delay: 84.672 ms  
Loss rate: 1.26%  
-- Flow 2:  
Average throughput: 230.39 Mbit/s  
95th percentile per-packet one-way delay: 54.209 ms  
Loss rate: 0.54%  
-- Flow 3:  
Average throughput: 175.85 Mbit/s  
95th percentile per-packet one-way delay: 150.231 ms  
Loss rate: 1.29%

Run 2: Report of PCC-Vivace — Data Link

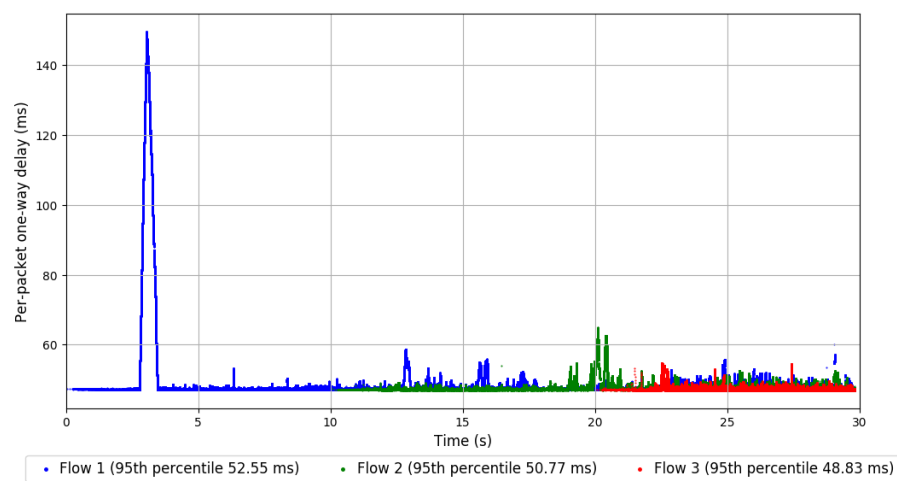
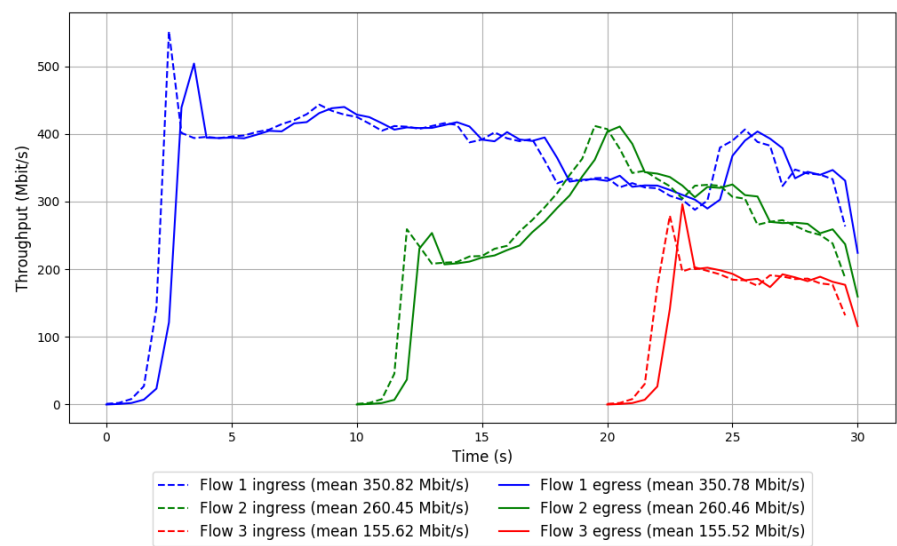


Run 3: Statistics of PCC-Vivace

Start at: 2018-10-26 22:57:12  
End at: 2018-10-26 22:57:42  
Local clock offset: -0.189 ms  
Remote clock offset: -0.142 ms

# Below is generated by plot.py at 2018-10-27 02:47:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 574.61 Mbit/s  
95th percentile per-packet one-way delay: 51.414 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 350.78 Mbit/s  
95th percentile per-packet one-way delay: 52.555 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 260.46 Mbit/s  
95th percentile per-packet one-way delay: 50.773 ms  
Loss rate: 0.47%  
-- Flow 3:  
Average throughput: 155.52 Mbit/s  
95th percentile per-packet one-way delay: 48.827 ms  
Loss rate: 1.03%

Run 3: Report of PCC-Vivace — Data Link

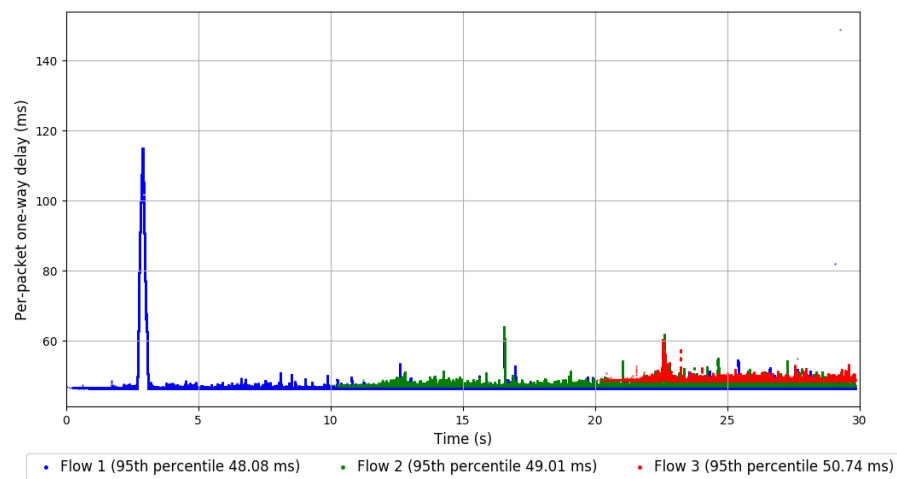
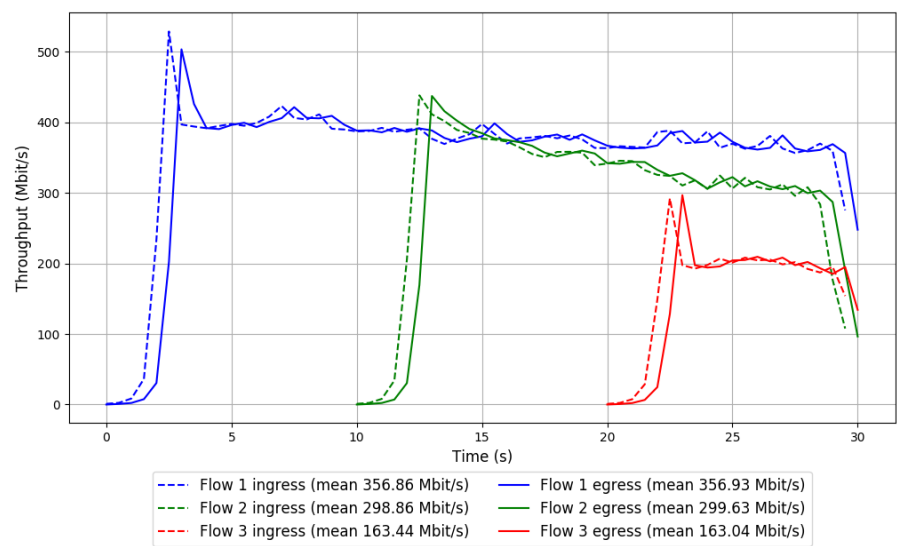


Run 4: Statistics of PCC-Vivace

Start at: 2018-10-26 23:28:28  
End at: 2018-10-26 23:28:58  
Local clock offset: -0.111 ms  
Remote clock offset: -0.336 ms

# Below is generated by plot.py at 2018-10-27 02:48:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 609.31 Mbit/s  
95th percentile per-packet one-way delay: 49.178 ms  
Loss rate: 0.36%  
-- Flow 1:  
Average throughput: 356.93 Mbit/s  
95th percentile per-packet one-way delay: 48.082 ms  
Loss rate: 0.30%  
-- Flow 2:  
Average throughput: 299.63 Mbit/s  
95th percentile per-packet one-way delay: 49.011 ms  
Loss rate: 0.22%  
-- Flow 3:  
Average throughput: 163.04 Mbit/s  
95th percentile per-packet one-way delay: 50.740 ms  
Loss rate: 1.23%

Run 4: Report of PCC-Vivace — Data Link





Run 5: Statistics of PCC-Vivace

Start at: 2018-10-26 23:59:39

End at: 2018-10-27 00:00:09

Local clock offset: -0.037 ms

Remote clock offset: 0.067 ms

# Below is generated by plot.py at 2018-10-27 02:48:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 545.87 Mbit/s

95th percentile per-packet one-way delay: 50.160 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 350.73 Mbit/s

95th percentile per-packet one-way delay: 49.441 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 253.73 Mbit/s

95th percentile per-packet one-way delay: 53.982 ms

Loss rate: 0.49%

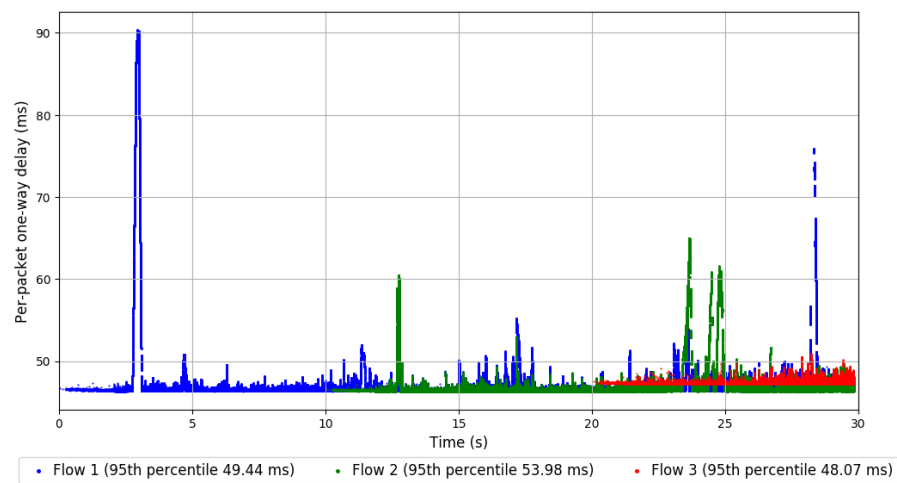
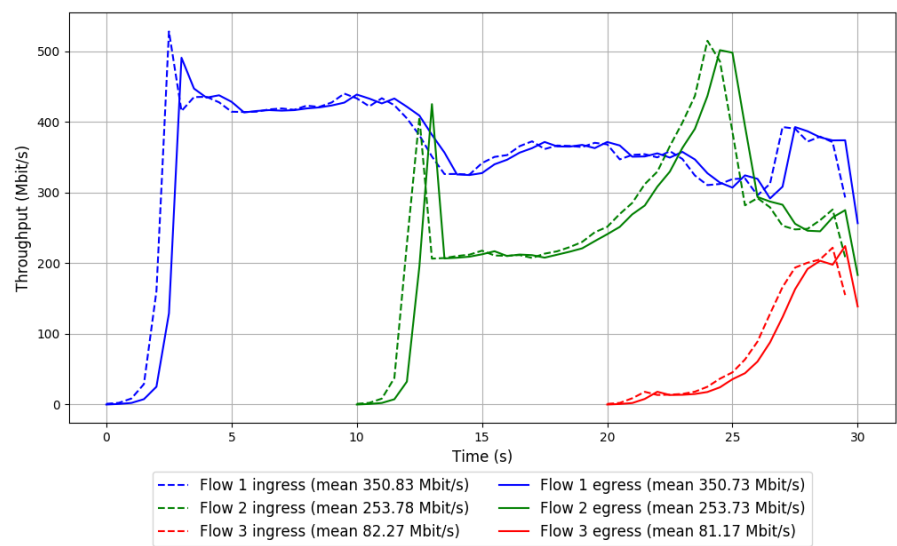
-- Flow 3:

Average throughput: 81.17 Mbit/s

95th percentile per-packet one-way delay: 48.068 ms

Loss rate: 2.28%

Run 5: Report of PCC-Vivace — Data Link

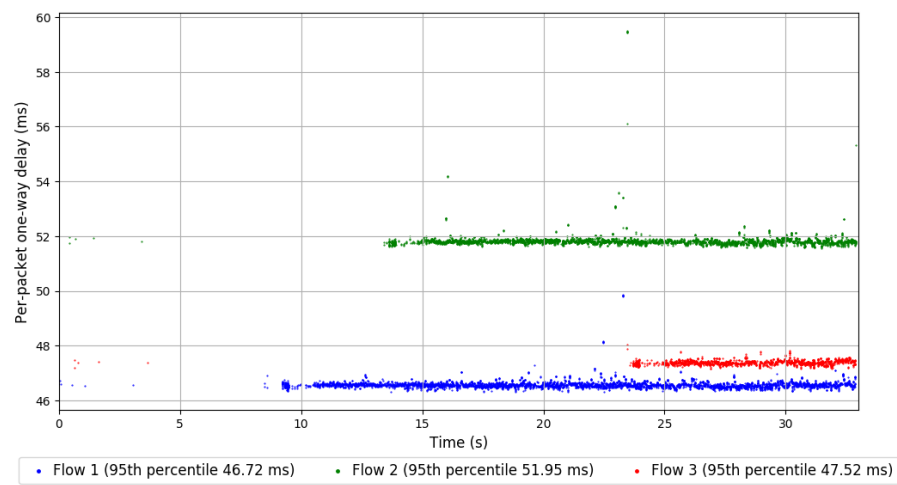
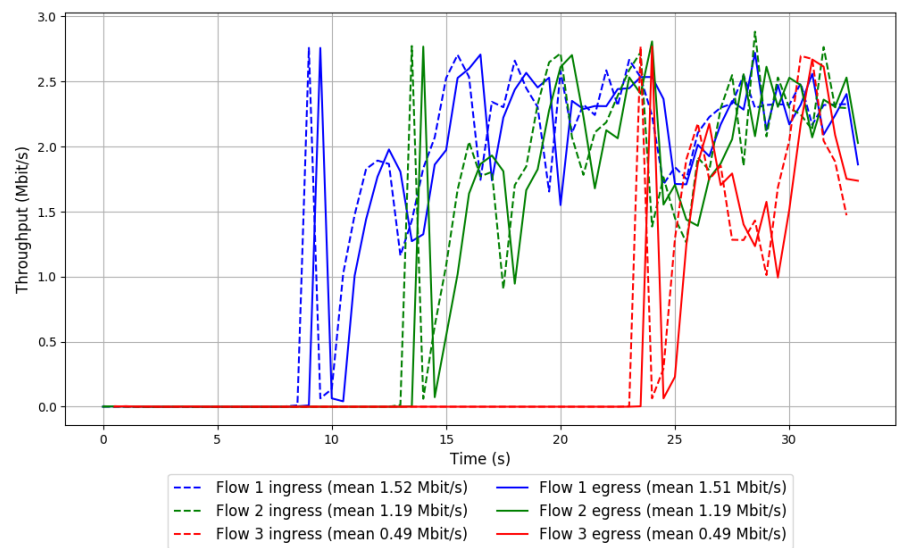


Run 1: Statistics of WebRTC media

Start at: 2018-10-26 21:27:20  
End at: 2018-10-26 21:27:50  
Local clock offset: -0.127 ms  
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2018-10-27 02:48:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.17 Mbit/s  
95th percentile per-packet one-way delay: 51.880 ms  
Loss rate: 0.57%  
-- Flow 1:  
Average throughput: 1.51 Mbit/s  
95th percentile per-packet one-way delay: 46.719 ms  
Loss rate: 0.69%  
-- Flow 2:  
Average throughput: 1.19 Mbit/s  
95th percentile per-packet one-way delay: 51.955 ms  
Loss rate: 0.64%  
-- Flow 3:  
Average throughput: 0.49 Mbit/s  
95th percentile per-packet one-way delay: 47.521 ms  
Loss rate: 0.01%

Run 1: Report of WebRTC media — Data Link

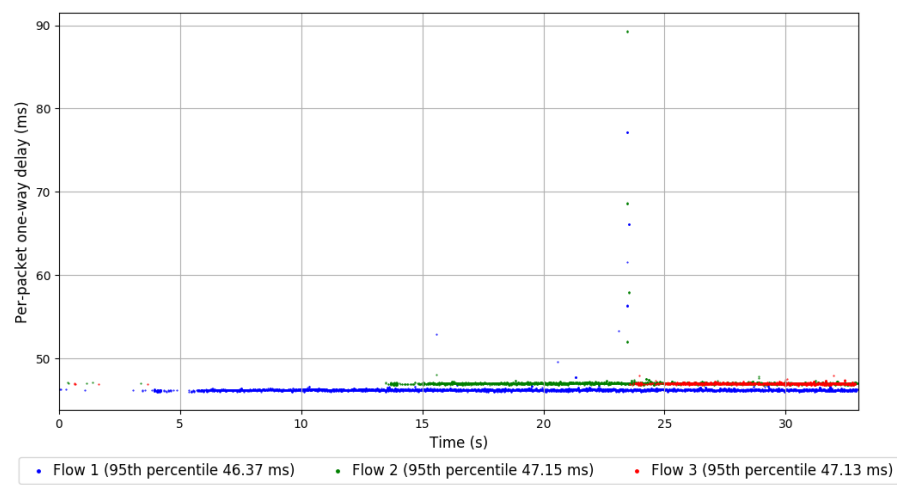
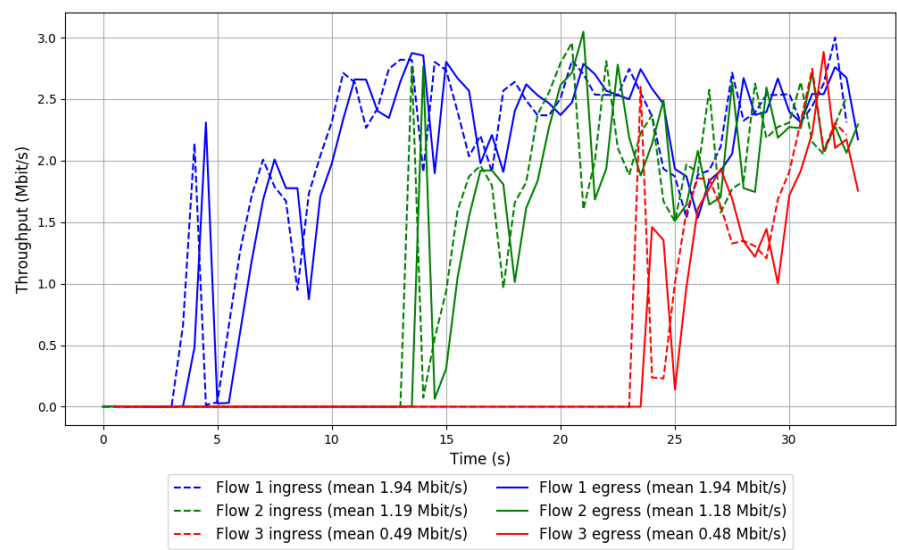


Run 2: Statistics of WebRTC media

Start at: 2018-10-26 21:58:43  
End at: 2018-10-26 21:59:13  
Local clock offset: -0.477 ms  
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2018-10-27 02:48:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.58 Mbit/s  
95th percentile per-packet one-way delay: 47.115 ms  
Loss rate: 0.69%  
-- Flow 1:  
Average throughput: 1.94 Mbit/s  
95th percentile per-packet one-way delay: 46.372 ms  
Loss rate: 0.36%  
-- Flow 2:  
Average throughput: 1.18 Mbit/s  
95th percentile per-packet one-way delay: 47.153 ms  
Loss rate: 0.59%  
-- Flow 3:  
Average throughput: 0.48 Mbit/s  
95th percentile per-packet one-way delay: 47.132 ms  
Loss rate: 2.30%

Run 2: Report of WebRTC media — Data Link

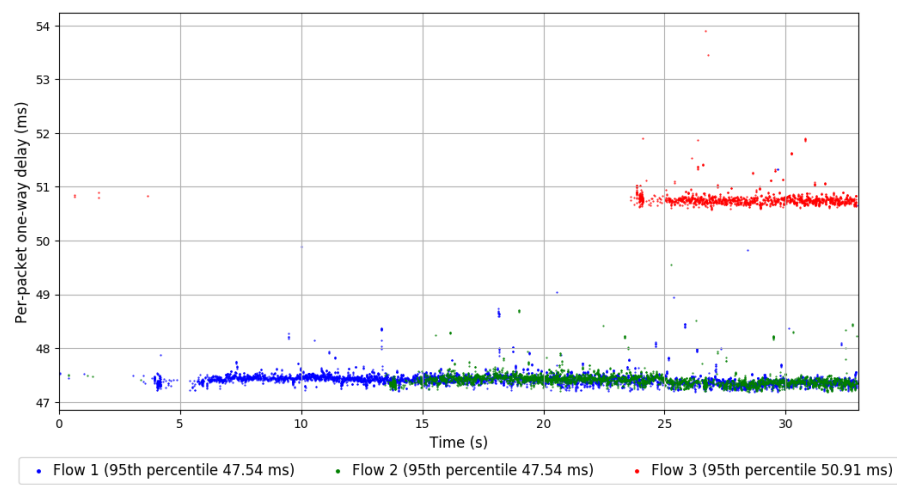
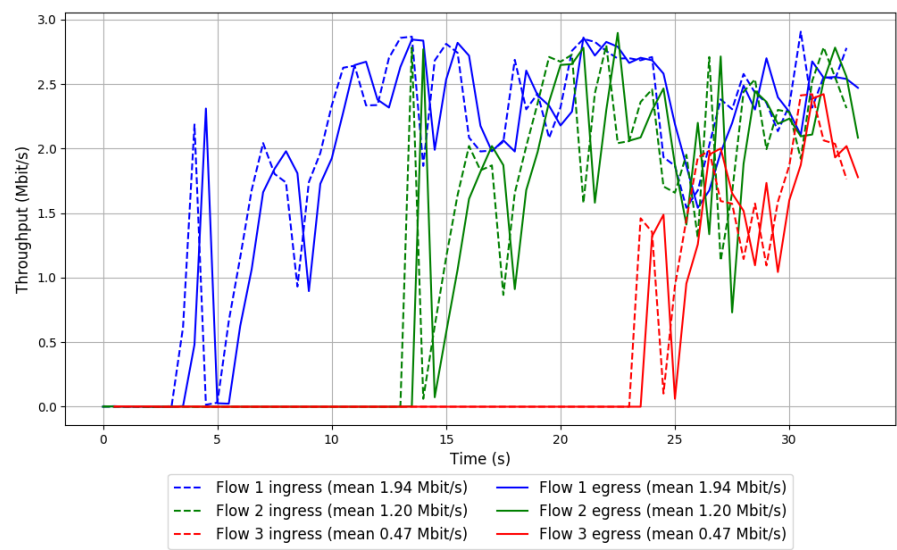


Run 3: Statistics of WebRTC media

Start at: 2018-10-26 22:29:46  
End at: 2018-10-26 22:30:16  
Local clock offset: -0.133 ms  
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2018-10-27 02:48:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.58 Mbit/s  
95th percentile per-packet one-way delay: 50.765 ms  
Loss rate: 0.53%  
-- Flow 1:  
Average throughput: 1.94 Mbit/s  
95th percentile per-packet one-way delay: 47.543 ms  
Loss rate: 0.42%  
-- Flow 2:  
Average throughput: 1.20 Mbit/s  
95th percentile per-packet one-way delay: 47.536 ms  
Loss rate: 0.59%  
-- Flow 3:  
Average throughput: 0.47 Mbit/s  
95th percentile per-packet one-way delay: 50.910 ms  
Loss rate: 0.85%

Run 3: Report of WebRTC media — Data Link





Run 4: Statistics of WebRTC media

Start at: 2018-10-26 23:01:04

End at: 2018-10-26 23:01:34

Local clock offset: -0.199 ms

Remote clock offset: -0.19 ms

# Below is generated by plot.py at 2018-10-27 02:48:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.59 Mbit/s

95th percentile per-packet one-way delay: 47.243 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 46.665 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 1.23 Mbit/s

95th percentile per-packet one-way delay: 46.625 ms

Loss rate: 0.58%

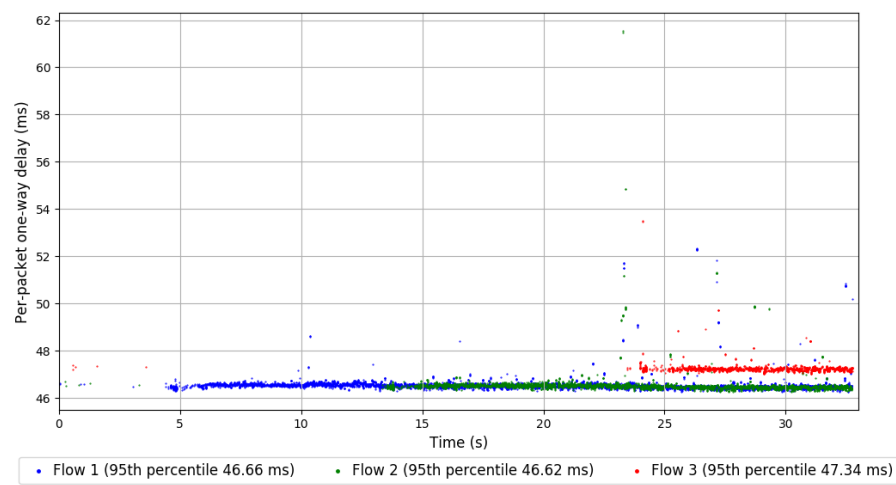
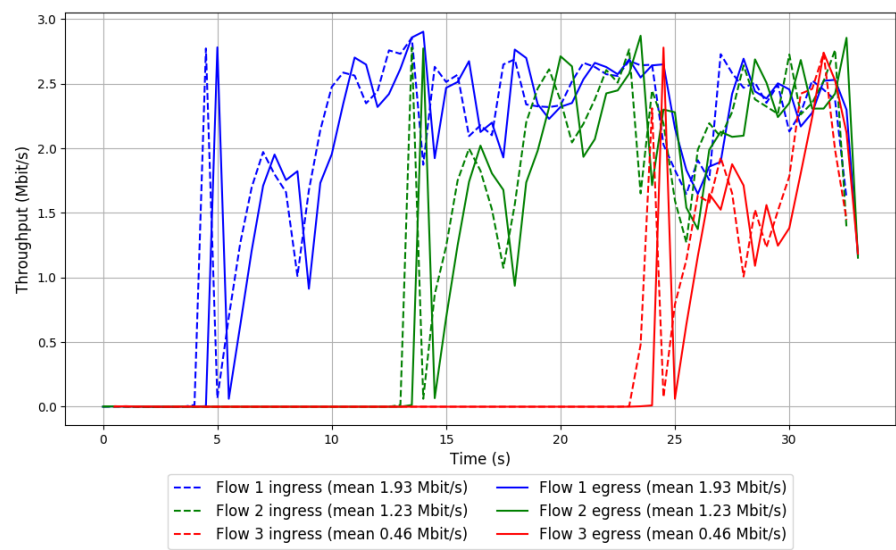
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 47.335 ms

Loss rate: 1.33%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-10-26 23:32:14  
End at: 2018-10-26 23:32:44  
Local clock offset: -0.086 ms  
Remote clock offset: -0.296 ms

# Below is generated by plot.py at 2018-10-27 02:48:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.59 Mbit/s  
95th percentile per-packet one-way delay: 50.137 ms  
Loss rate: 0.65%  
-- Flow 1:  
Average throughput: 1.92 Mbit/s  
95th percentile per-packet one-way delay: 50.175 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 1.22 Mbit/s  
95th percentile per-packet one-way delay: 47.578 ms  
Loss rate: 0.87%  
-- Flow 3:  
Average throughput: 0.47 Mbit/s  
95th percentile per-packet one-way delay: 46.773 ms  
Loss rate: 1.22%

Run 5: Report of WebRTC media — Data Link

