

## Pantheon Report

Generated at 2019-10-03 01:08:38 (UTC).

Data path: AWS Brazil 1 on `ens5` (*local*) → Brazil on `p4p1` (*remote*).

Repeated the test of 24 congestion control schemes 5 times.

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

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

### System info:

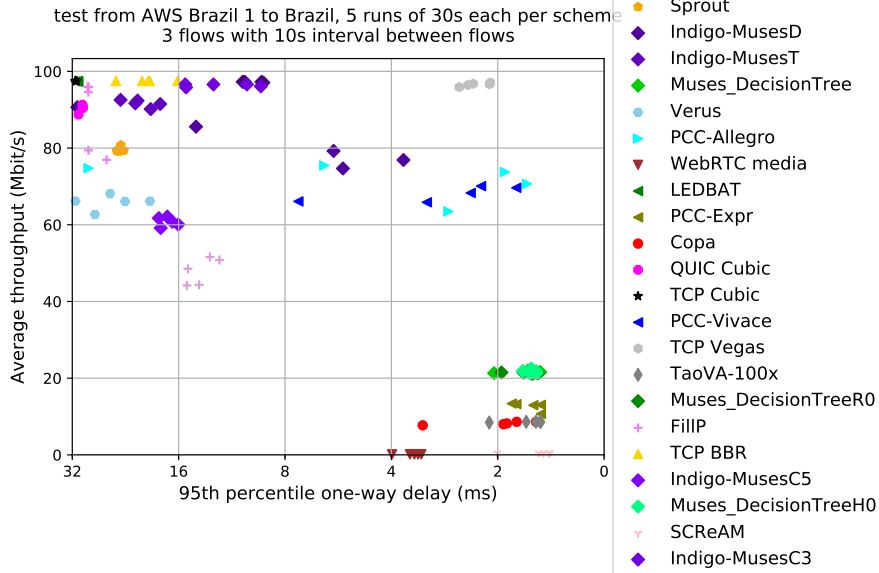
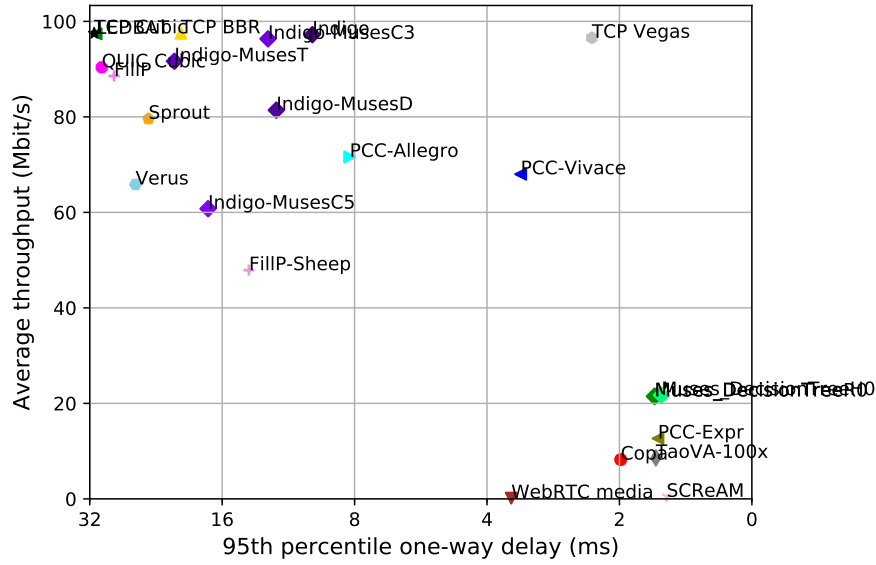
```
Linux 4.15.0-1050-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
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 AWS Brazil 1 to Brazil, 5 runs of 30s each per scheme  
3 flows with 10s interval between flows (mean of all runs by scheme)



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	72.56	30.32	14.23	19.85	19.41	21.44	0.00	0.00	0.01
Copa	5	0.00	9.36	10.78	1.10	2.48	1.38	98.03	65.04	69.94
TCP Cubic	5	63.36	36.40	29.82	31.17	31.35	31.41	0.03	0.05	0.04
FillP	5	48.72	39.71	40.44	26.25	28.11	28.69	8.59	13.72	29.64
FillP-Sheep	5	36.73	10.15	13.36	11.24	19.11	21.10	1.09	3.13	5.32
Indigo	5	43.81	50.08	62.12	9.39	9.92	10.74	0.00	0.00	0.00
Indigo-MusesC3	5	52.56	43.98	51.93	11.07	13.35	9.33	0.00	0.00	0.00
Indigo-MusesC5	5	30.93	29.86	35.25	16.57	17.59	18.23	0.00	0.00	0.01
Indigo-MusesD	5	44.25	34.81	49.41	8.56	12.66	9.14	0.01	0.42	0.69
Indigo-MusesT	5	56.06	42.02	28.34	18.38	20.98	23.49	0.00	0.01	0.01
LEDBAT	5	61.94	37.60	31.59	30.92	30.99	31.07	0.03	0.07	0.10
Muses_DecisionTree	5	10.72	10.84	11.10	1.43	1.51	1.54	0.00	0.00	0.00
Muses_DecisionTreeH0	5	10.79	10.81	11.62	1.34	1.39	1.39	0.00	0.00	0.00
Muses_DecisionTreeR0	5	10.74	10.78	10.91	1.45	1.46	1.54	0.00	0.00	0.01
PCC-Allegro	5	56.50	18.59	8.38	4.49	9.13	10.05	0.00	0.01	0.02
PCC-Expr	5	6.92	6.19	4.93	1.43	1.56	1.19	83.61	96.87	98.67
QUIC Cubic	5	57.89	34.57	28.87	29.98	30.13	30.41	0.18	0.20	0.21
SCReAM	5	0.22	0.22	0.22	1.29	1.28	1.40	0.00	0.00	0.00
Sprout	5	43.49	39.06	30.68	21.21	23.67	25.77	0.00	0.00	0.00
TaoVA-100x	5	0.00	7.61	10.58	1.15	1.42	1.50	95.92	82.46	82.42
TCP Vegas	5	55.80	40.20	42.07	2.19	2.37	2.52	0.00	0.00	0.00
Verus	5	34.76	32.95	27.61	20.78	26.12	31.40	5.11	6.14	12.21
PCC-Vivace	5	39.16	31.03	24.84	2.34	7.13	7.81	0.02	0.06	0.06
WebRTC media	5	0.06	0.06	0.06	3.49	3.43	3.59	0.02	0.00	0.00

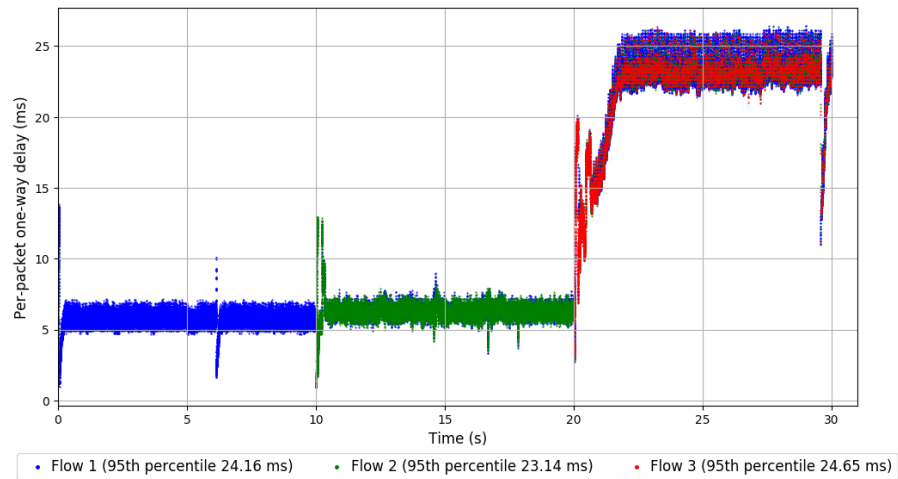
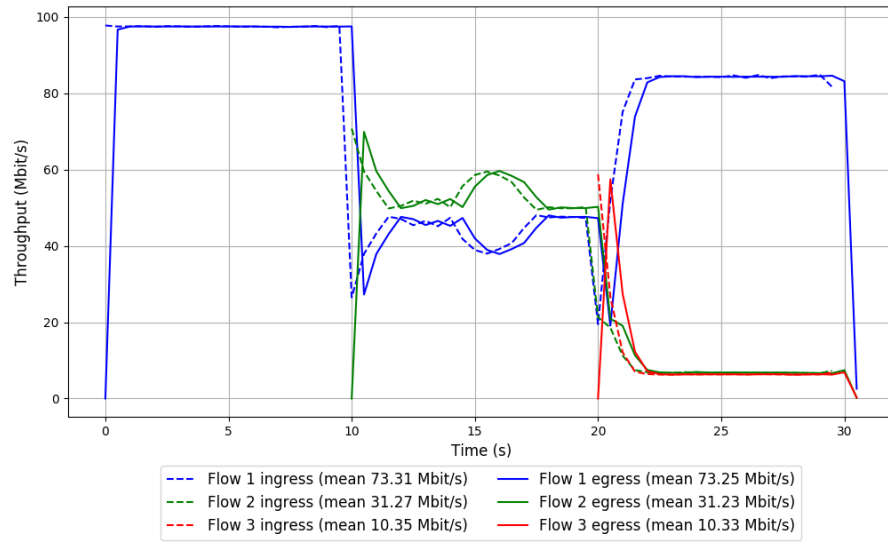


Run 1: Statistics of TCP BBR

Start at: 2019-10-02 22:52:53  
End at: 2019-10-02 22:53:23  
Local clock offset: -5.577 ms  
Remote clock offset: -0.174 ms

# Below is generated by plot.py at 2019-10-03 00:56:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.50 Mbit/s  
95th percentile per-packet one-way delay: 24.073 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 73.25 Mbit/s  
95th percentile per-packet one-way delay: 24.165 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 31.23 Mbit/s  
95th percentile per-packet one-way delay: 23.142 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 10.33 Mbit/s  
95th percentile per-packet one-way delay: 24.651 ms  
Loss rate: 0.00%

# Run 1: Report of TCP BBR — Data Link

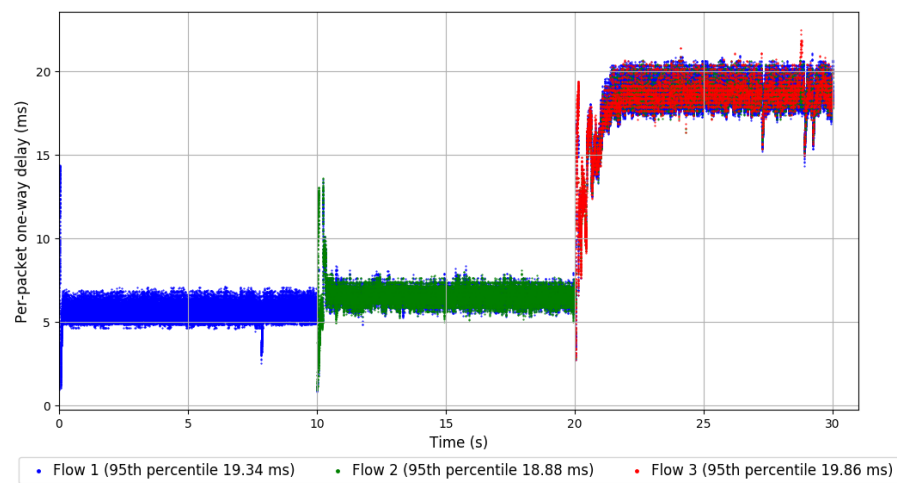
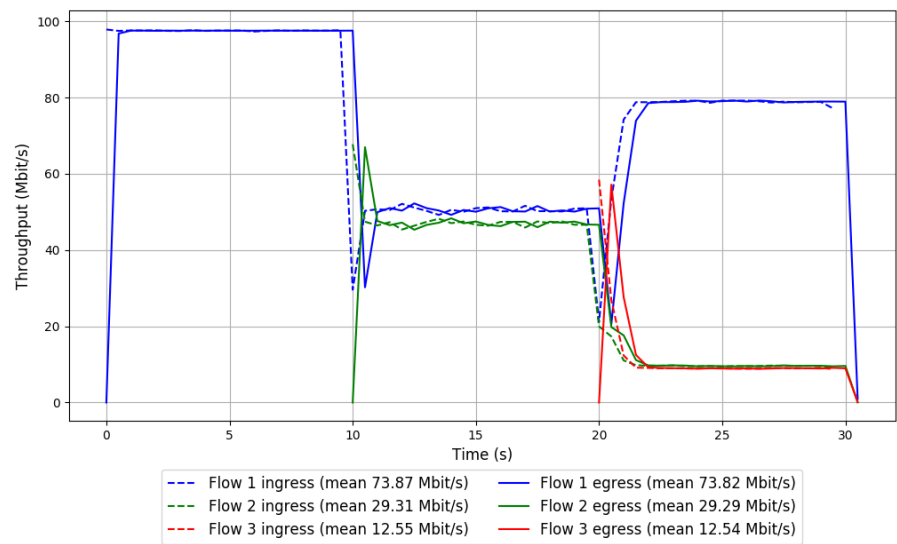


Run 2: Statistics of TCP BBR

Start at: 2019-10-02 23:20:06  
End at: 2019-10-02 23:20:36  
Local clock offset: -5.378 ms  
Remote clock offset: -0.285 ms

# Below is generated by plot.py at 2019-10-03 00:56:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.51 Mbit/s  
95th percentile per-packet one-way delay: 19.320 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 73.82 Mbit/s  
95th percentile per-packet one-way delay: 19.343 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 29.29 Mbit/s  
95th percentile per-packet one-way delay: 18.881 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 12.54 Mbit/s  
95th percentile per-packet one-way delay: 19.856 ms  
Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link

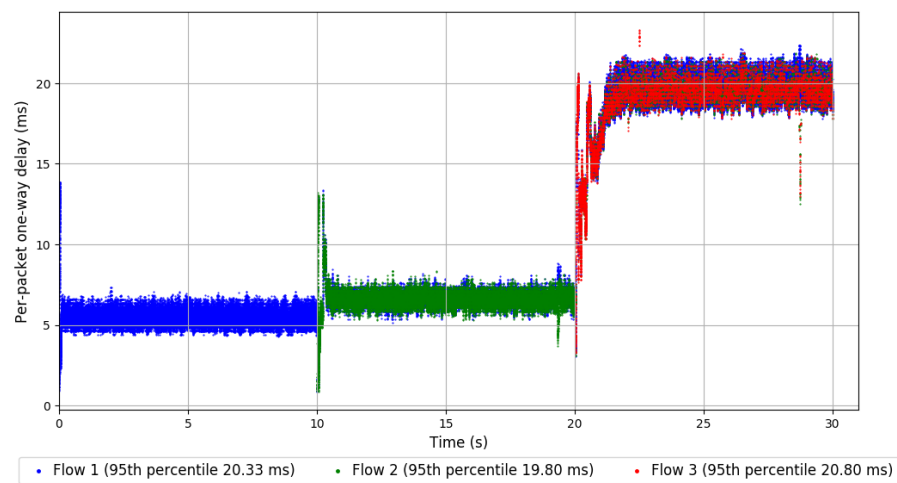
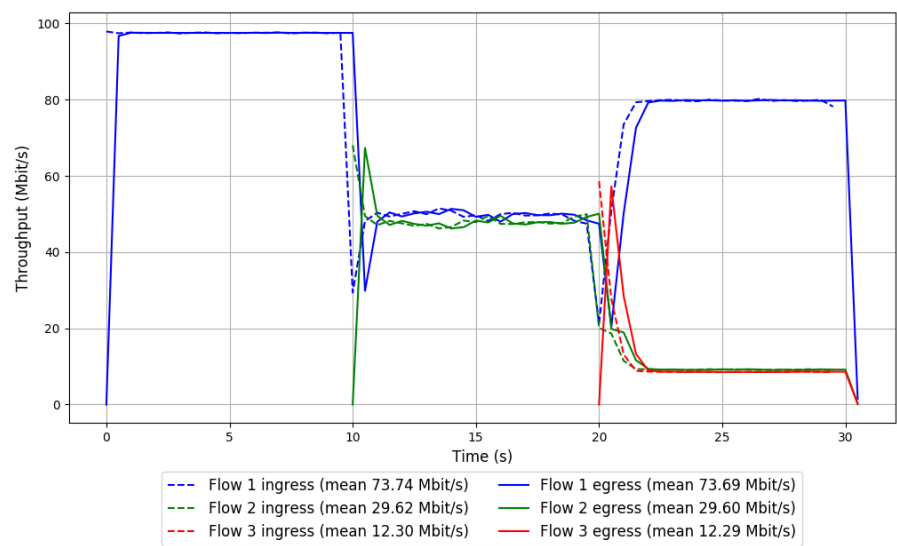


Run 3: Statistics of TCP BBR

Start at: 2019-10-02 23:47:20  
End at: 2019-10-02 23:47:50  
Local clock offset: -6.724 ms  
Remote clock offset: -0.264 ms

# Below is generated by plot.py at 2019-10-03 00:56:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.50 Mbit/s  
95th percentile per-packet one-way delay: 20.295 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 73.69 Mbit/s  
95th percentile per-packet one-way delay: 20.329 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 29.60 Mbit/s  
95th percentile per-packet one-way delay: 19.803 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 12.29 Mbit/s  
95th percentile per-packet one-way delay: 20.801 ms  
Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link

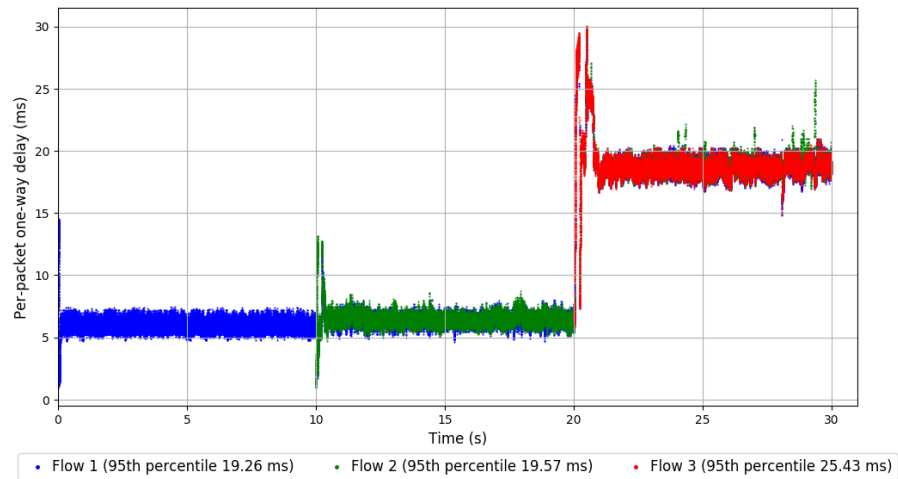
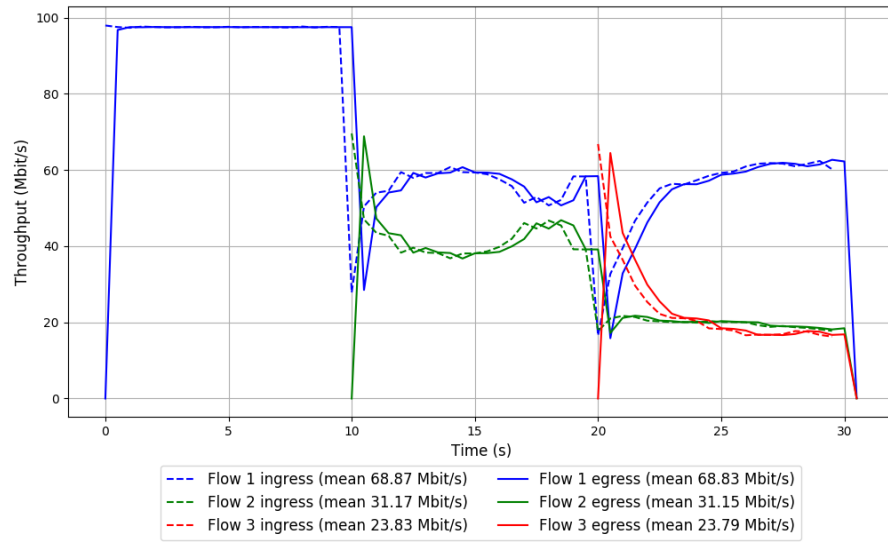


Run 4: Statistics of TCP BBR

Start at: 2019-10-03 00:14:35  
End at: 2019-10-03 00:15:05  
Local clock offset: -7.222 ms  
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2019-10-03 00:56:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.51 Mbit/s  
95th percentile per-packet one-way delay: 19.488 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 68.83 Mbit/s  
95th percentile per-packet one-way delay: 19.257 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 31.15 Mbit/s  
95th percentile per-packet one-way delay: 19.565 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 23.79 Mbit/s  
95th percentile per-packet one-way delay: 25.425 ms  
Loss rate: 0.02%

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



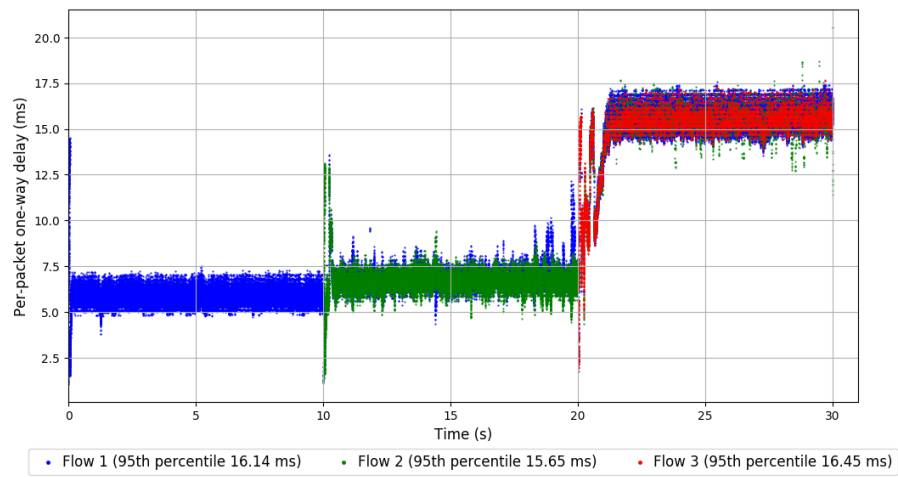
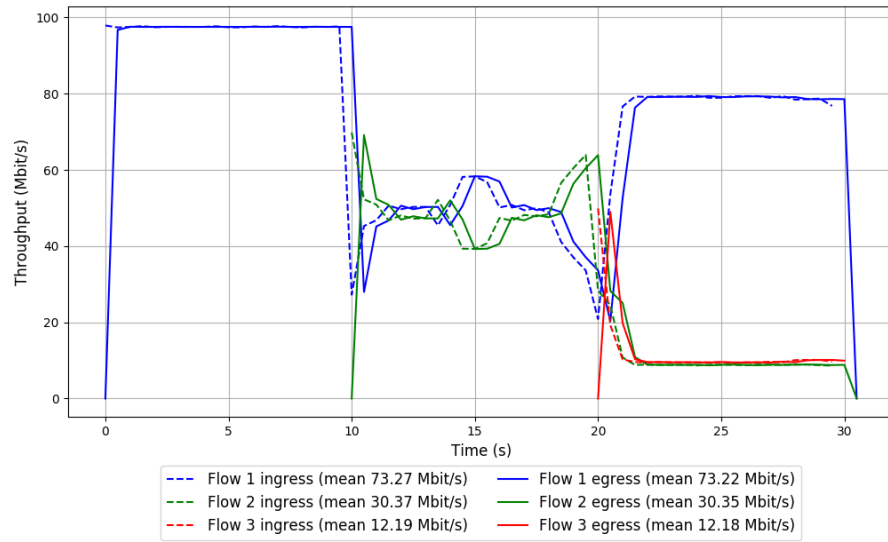


Run 5: Statistics of TCP BBR

Start at: 2019-10-03 00:41:51  
End at: 2019-10-03 00:42:21  
Local clock offset: 4.256 ms  
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2019-10-03 00:56:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.49 Mbit/s  
95th percentile per-packet one-way delay: 16.120 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 73.22 Mbit/s  
95th percentile per-packet one-way delay: 16.145 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 30.35 Mbit/s  
95th percentile per-packet one-way delay: 15.649 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 12.18 Mbit/s  
95th percentile per-packet one-way delay: 16.455 ms  
Loss rate: 0.04%

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

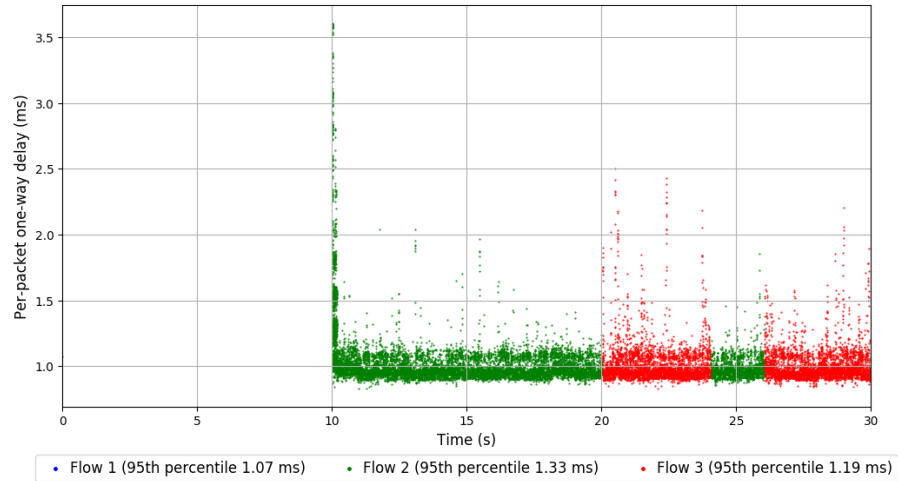
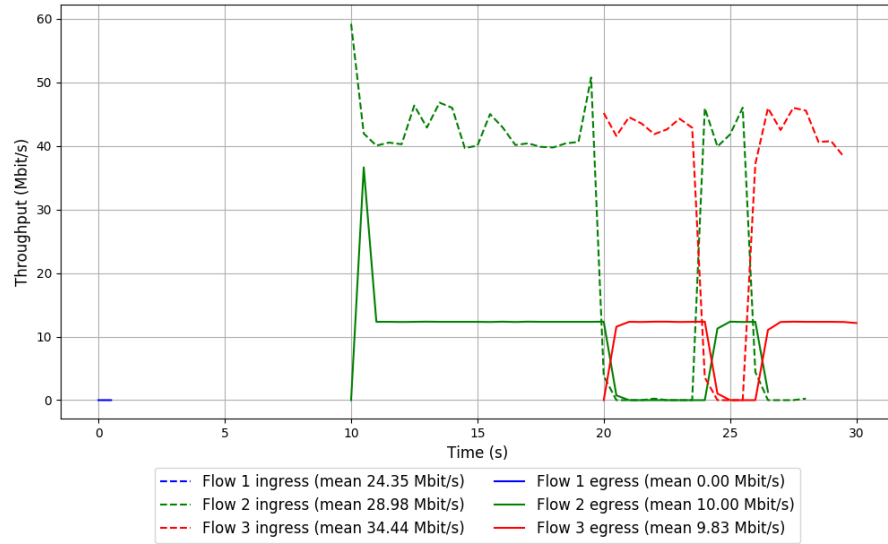


Run 1: Statistics of Copa

Start at: 2019-10-02 23:00:53  
End at: 2019-10-02 23:01:23  
Local clock offset: -5.5 ms  
Remote clock offset: -0.255 ms

# Below is generated by plot.py at 2019-10-03 00:56:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.62 Mbit/s  
95th percentile per-packet one-way delay: 1.279 ms  
Loss rate: 70.16%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 1.073 ms  
Loss rate: 98.33%  
-- Flow 2:  
Average throughput: 10.00 Mbit/s  
95th percentile per-packet one-way delay: 1.326 ms  
Loss rate: 69.31%  
-- Flow 3:  
Average throughput: 9.83 Mbit/s  
95th percentile per-packet one-way delay: 1.190 ms  
Loss rate: 71.47%

## Run 1: Report of Copa — Data Link

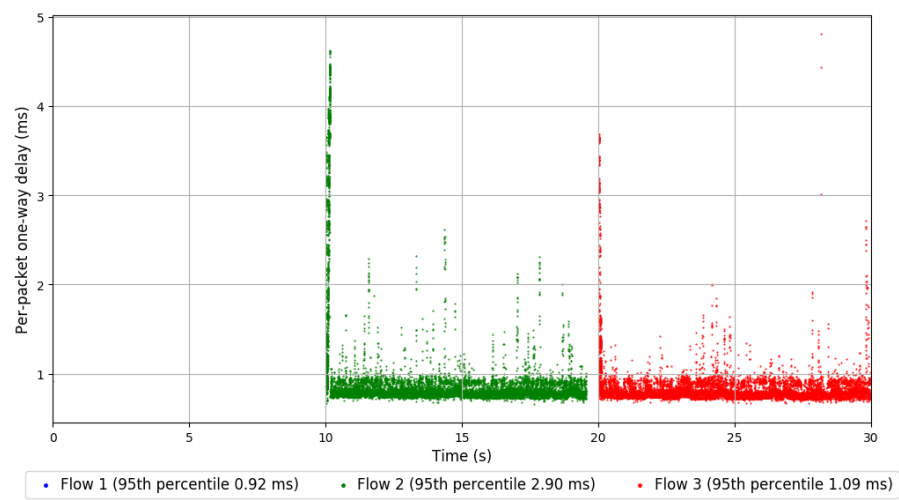
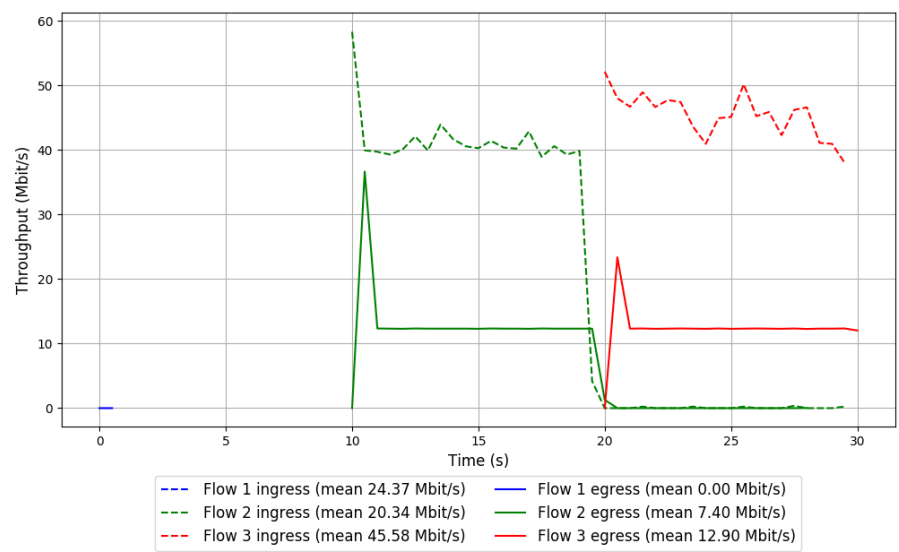


Run 2: Statistics of Copa

Start at: 2019-10-02 23:28:05  
End at: 2019-10-02 23:28:35  
Local clock offset: -5.753 ms  
Remote clock offset: -0.376 ms

# Below is generated by plot.py at 2019-10-03 00:56:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.62 Mbit/s  
95th percentile per-packet one-way delay: 1.644 ms  
Loss rate: 69.66%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 0.919 ms  
Loss rate: 98.33%  
-- Flow 2:  
Average throughput: 7.40 Mbit/s  
95th percentile per-packet one-way delay: 2.905 ms  
Loss rate: 67.33%  
-- Flow 3:  
Average throughput: 12.90 Mbit/s  
95th percentile per-packet one-way delay: 1.093 ms  
Loss rate: 71.70%

Run 2: Report of Copa — Data Link

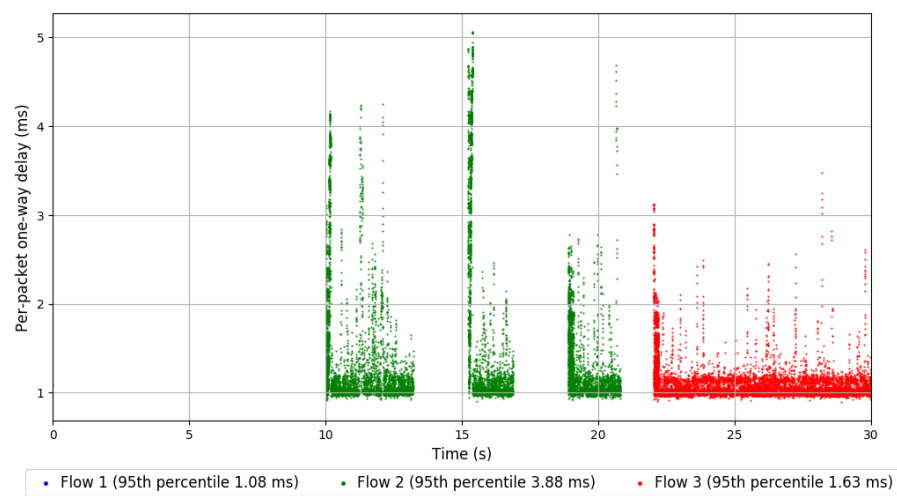
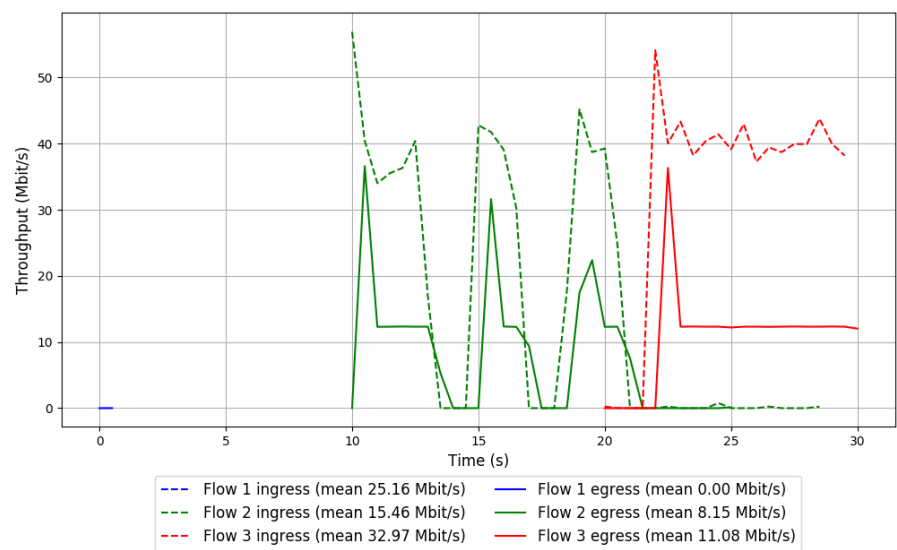


Run 3: Statistics of Copa

Start at: 2019-10-02 23:55:19  
End at: 2019-10-02 23:55:49  
Local clock offset: -6.942 ms  
Remote clock offset: -0.234 ms

# Below is generated by plot.py at 2019-10-03 00:56:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 7.70 Mbit/s  
95th percentile per-packet one-way delay: 3.261 ms  
Loss rate: 62.70%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 1.082 ms  
Loss rate: 98.33%  
-- Flow 2:  
Average throughput: 8.15 Mbit/s  
95th percentile per-packet one-way delay: 3.875 ms  
Loss rate: 58.50%  
-- Flow 3:  
Average throughput: 11.08 Mbit/s  
95th percentile per-packet one-way delay: 1.629 ms  
Loss rate: 66.40%

Run 3: Report of Copa — Data Link



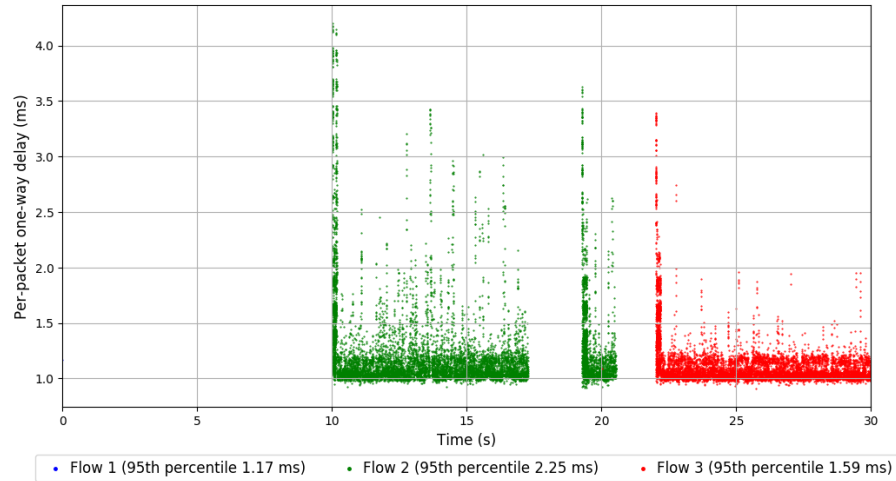
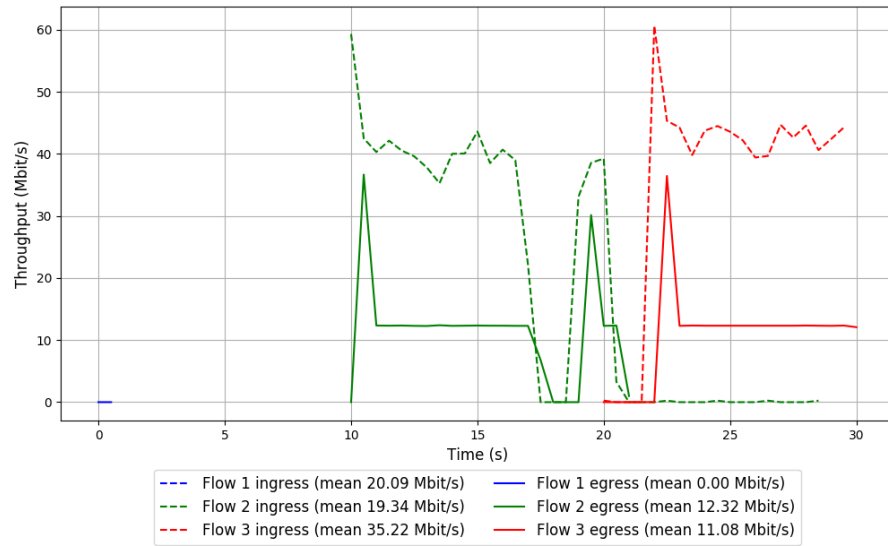


Run 4: Statistics of Copa

Start at: 2019-10-03 00:22:35  
End at: 2019-10-03 00:23:05  
Local clock offset: -7.265 ms  
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2019-10-03 00:56:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.01 Mbit/s  
95th percentile per-packet one-way delay: 1.894 ms  
Loss rate: 66.15%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 1.167 ms  
Loss rate: 97.92%  
-- Flow 2:  
Average throughput: 12.32 Mbit/s  
95th percentile per-packet one-way delay: 2.253 ms  
Loss rate: 63.81%  
-- Flow 3:  
Average throughput: 11.08 Mbit/s  
95th percentile per-packet one-way delay: 1.593 ms  
Loss rate: 68.54%

# Run 4: Report of Copa — Data Link

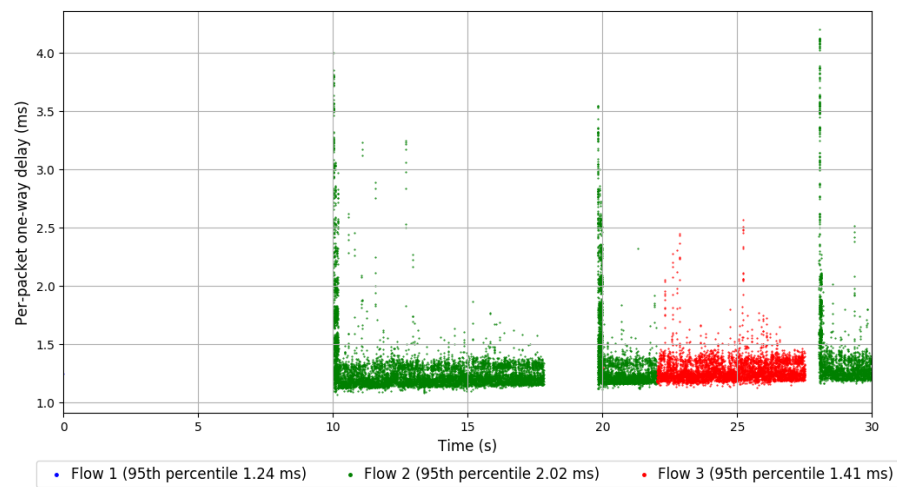
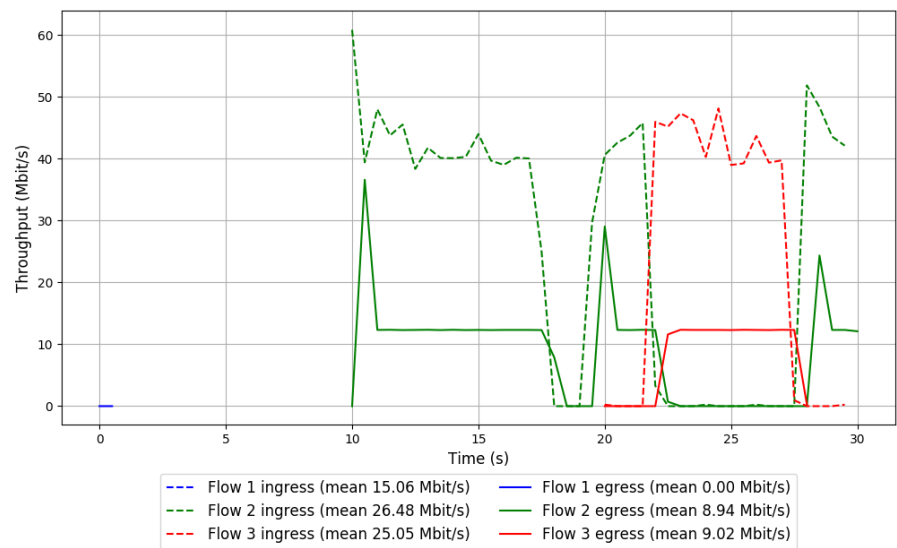


Run 5: Statistics of Copa

Start at: 2019-10-03 00:49:56  
End at: 2019-10-03 00:50:26  
Local clock offset: 6.416 ms  
Remote clock offset: -0.032 ms

```
# Below is generated by plot.py at 2019-10-03 00:56:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.21 Mbit/s
95th percentile per-packet one-way delay: 1.828 ms
Loss rate: 67.91%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 1.244 ms
Loss rate: 97.24%
-- Flow 2:
Average throughput: 8.94 Mbit/s
95th percentile per-packet one-way delay: 2.024 ms
Loss rate: 66.26%
-- Flow 3:
Average throughput: 9.02 Mbit/s
95th percentile per-packet one-way delay: 1.411 ms
Loss rate: 71.59%
```

Run 5: Report of Copa — Data Link

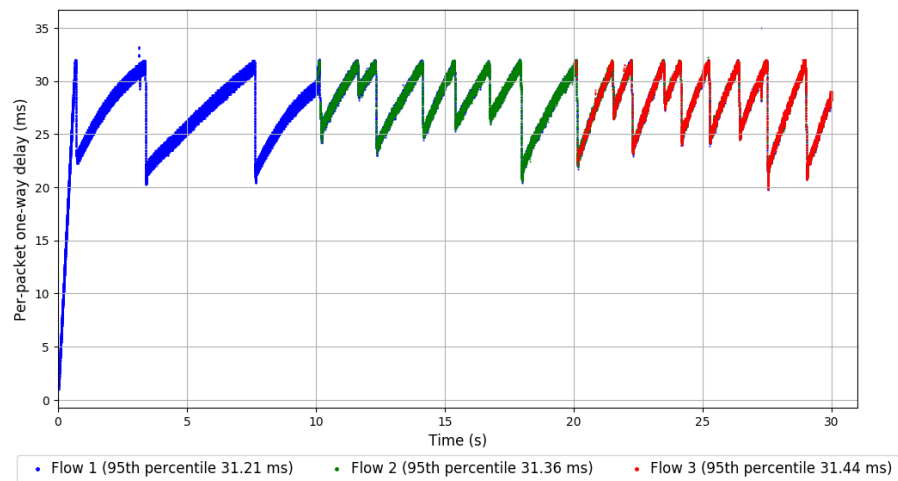
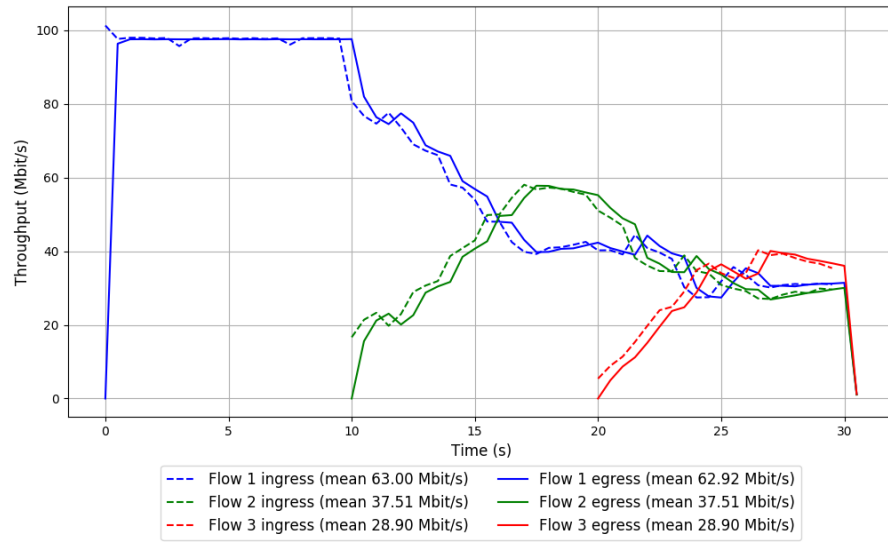


Run 1: Statistics of TCP Cubic

Start at: 2019-10-02 22:51:44  
End at: 2019-10-02 22:52:14  
Local clock offset: -5.579 ms  
Remote clock offset: -0.132 ms

# Below is generated by plot.py at 2019-10-03 00:57:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.50 Mbit/s  
95th percentile per-packet one-way delay: 31.240 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 62.92 Mbit/s  
95th percentile per-packet one-way delay: 31.210 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 37.51 Mbit/s  
95th percentile per-packet one-way delay: 31.360 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 28.90 Mbit/s  
95th percentile per-packet one-way delay: 31.443 ms  
Loss rate: 0.03%

# Run 1: Report of TCP Cubic — Data Link

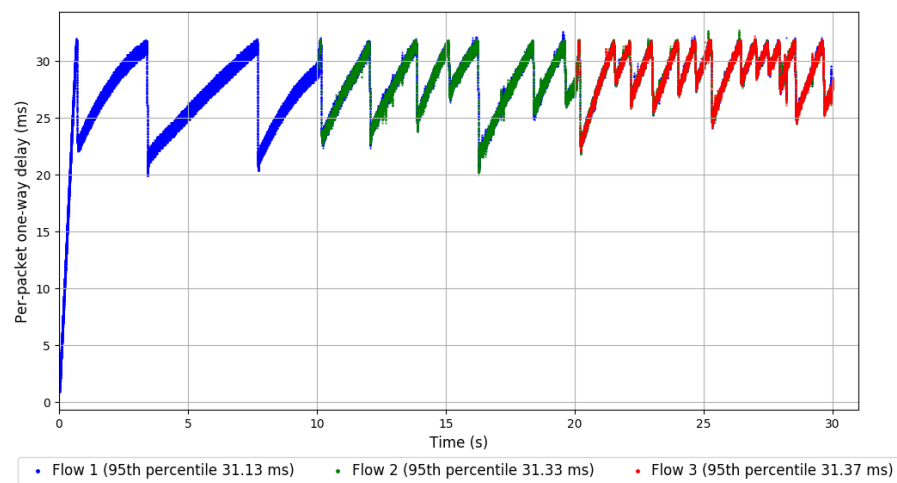
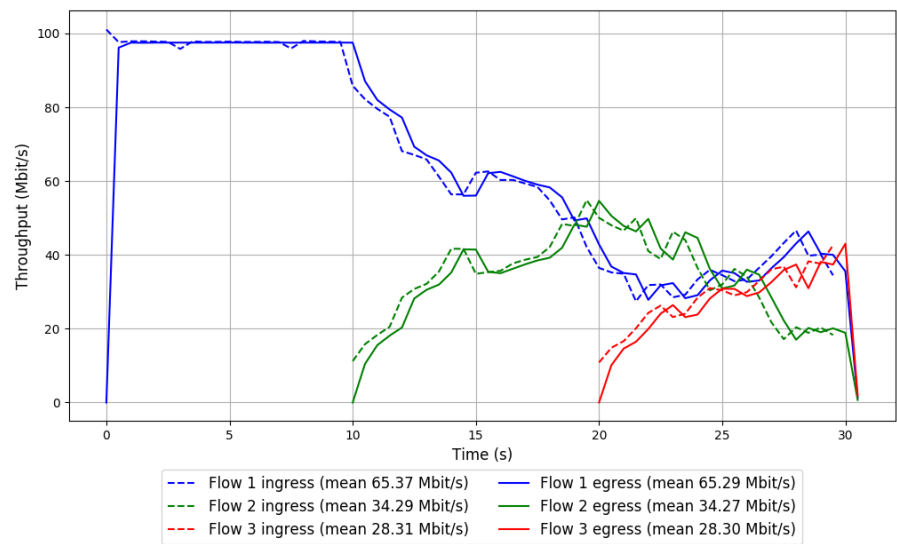


Run 2: Statistics of TCP Cubic

Start at: 2019-10-02 23:18:56  
End at: 2019-10-02 23:19:26  
Local clock offset: -5.375 ms  
Remote clock offset: -0.288 ms

# Below is generated by plot.py at 2019-10-03 00:57:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.50 Mbit/s  
95th percentile per-packet one-way delay: 31.284 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 65.29 Mbit/s  
95th percentile per-packet one-way delay: 31.133 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 34.27 Mbit/s  
95th percentile per-packet one-way delay: 31.330 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 28.30 Mbit/s  
95th percentile per-packet one-way delay: 31.366 ms  
Loss rate: 0.03%

Run 2: Report of TCP Cubic — Data Link



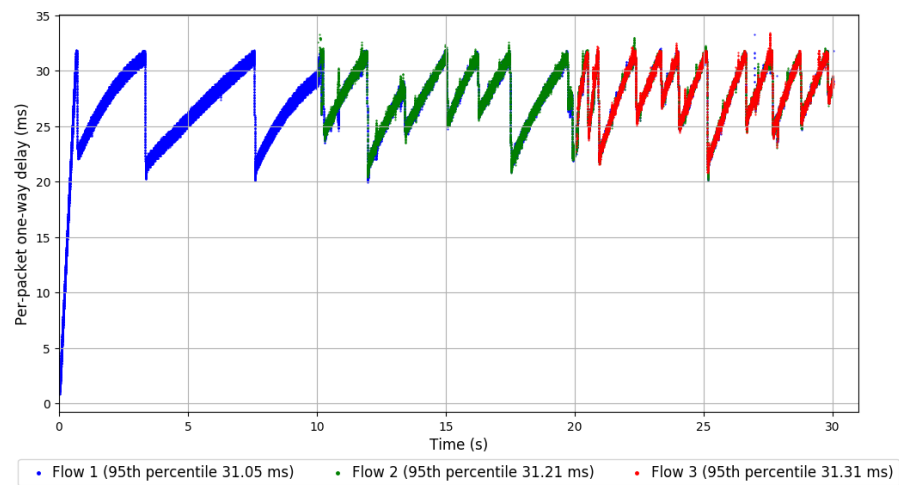
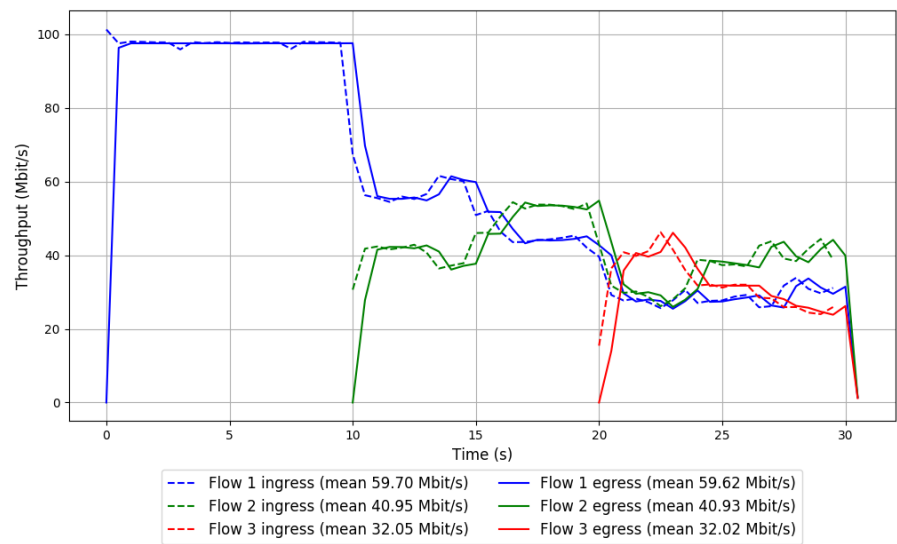


Run 3: Statistics of TCP Cubic

Start at: 2019-10-02 23:46:10  
End at: 2019-10-02 23:46:40  
Local clock offset: -6.697 ms  
Remote clock offset: -0.294 ms

# Below is generated by plot.py at 2019-10-03 00:57:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.49 Mbit/s  
95th percentile per-packet one-way delay: 31.096 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 59.62 Mbit/s  
95th percentile per-packet one-way delay: 31.050 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 40.93 Mbit/s  
95th percentile per-packet one-way delay: 31.210 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 32.02 Mbit/s  
95th percentile per-packet one-way delay: 31.309 ms  
Loss rate: 0.04%

Run 3: Report of TCP Cubic — Data Link

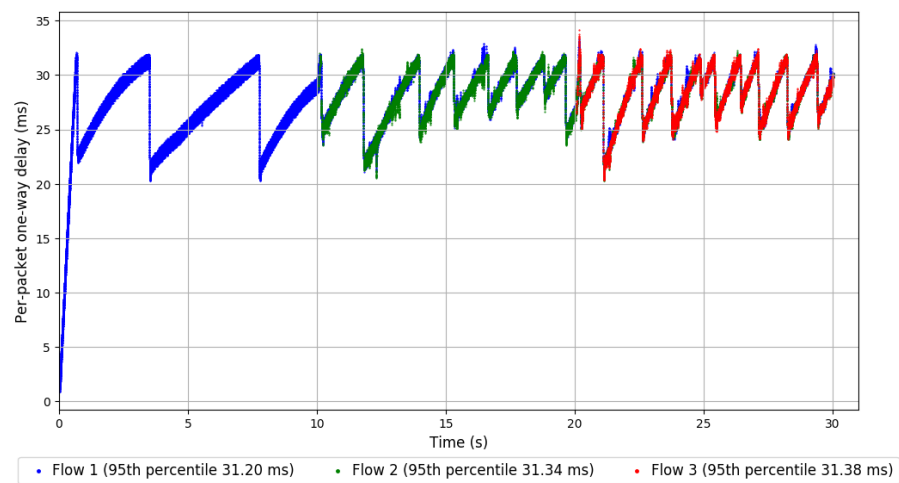
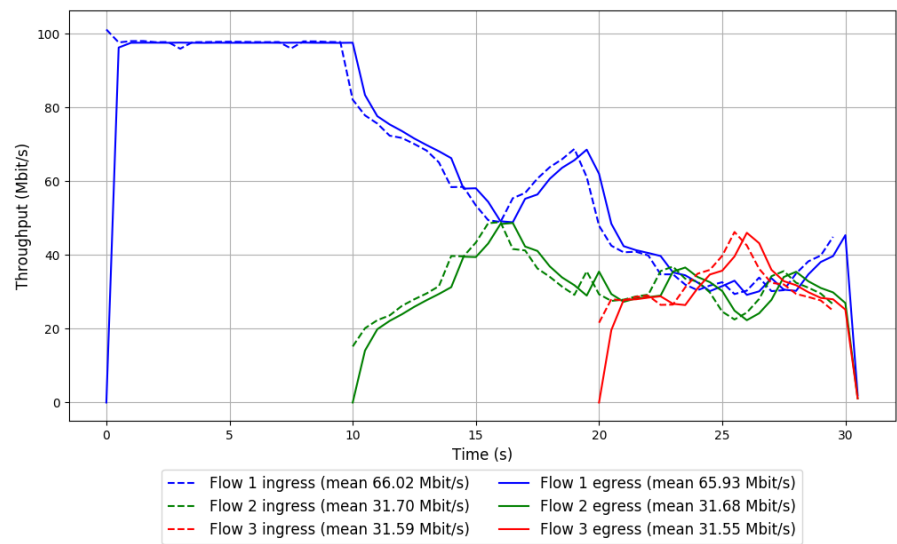


Run 4: Statistics of TCP Cubic

Start at: 2019-10-03 00:13:26  
End at: 2019-10-03 00:13:56  
Local clock offset: -7.148 ms  
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2019-10-03 00:58:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.50 Mbit/s  
95th percentile per-packet one-way delay: 31.320 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 65.93 Mbit/s  
95th percentile per-packet one-way delay: 31.198 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 31.68 Mbit/s  
95th percentile per-packet one-way delay: 31.342 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 31.55 Mbit/s  
95th percentile per-packet one-way delay: 31.379 ms  
Loss rate: 0.09%

Run 4: Report of TCP Cubic — Data Link

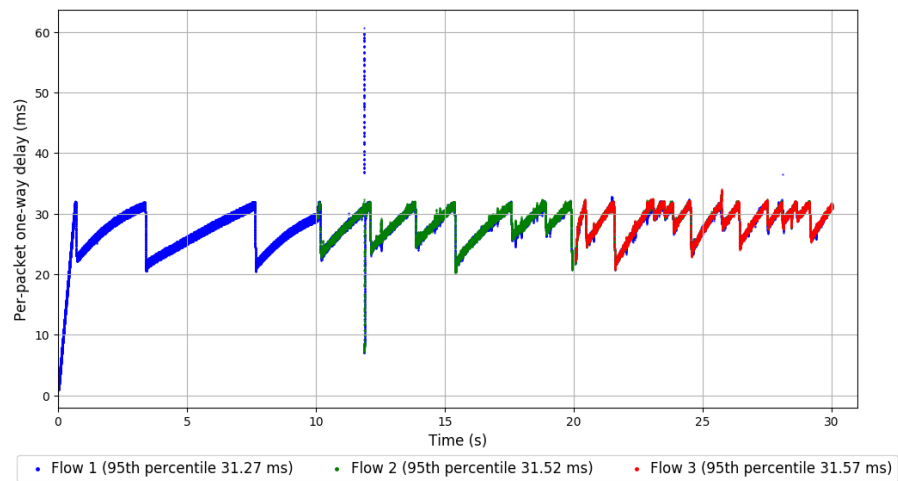
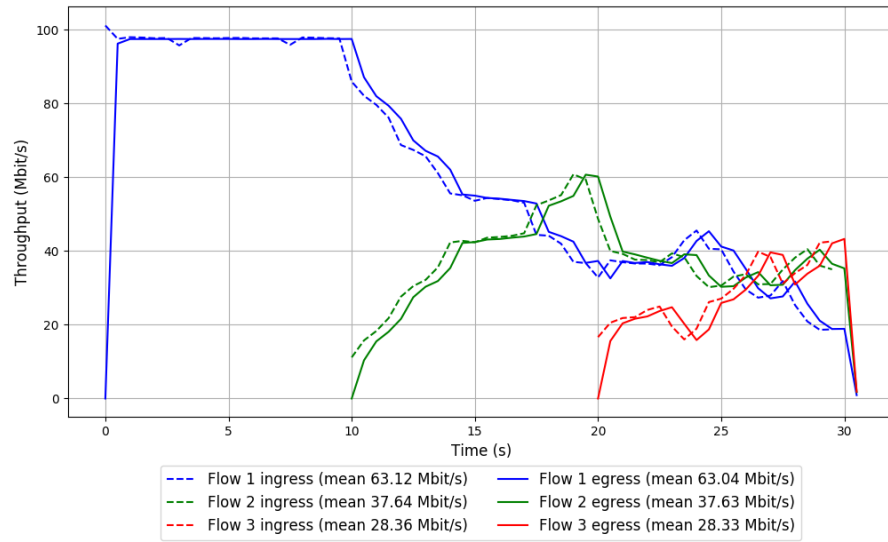


Run 5: Statistics of TCP Cubic

Start at: 2019-10-03 00:40:42  
End at: 2019-10-03 00:41:12  
Local clock offset: 3.919 ms  
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2019-10-03 00:58:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.50 Mbit/s  
95th percentile per-packet one-way delay: 31.367 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 63.04 Mbit/s  
95th percentile per-packet one-way delay: 31.267 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 37.63 Mbit/s  
95th percentile per-packet one-way delay: 31.516 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 28.33 Mbit/s  
95th percentile per-packet one-way delay: 31.568 ms  
Loss rate: 0.03%

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

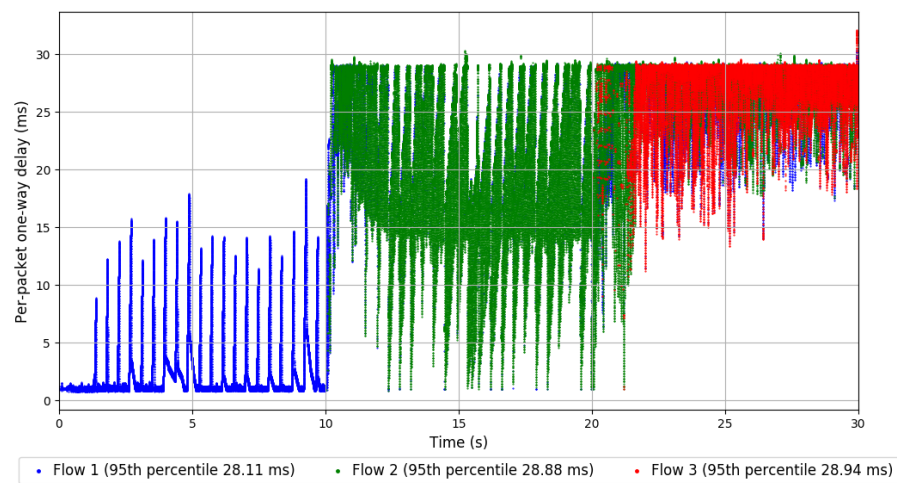
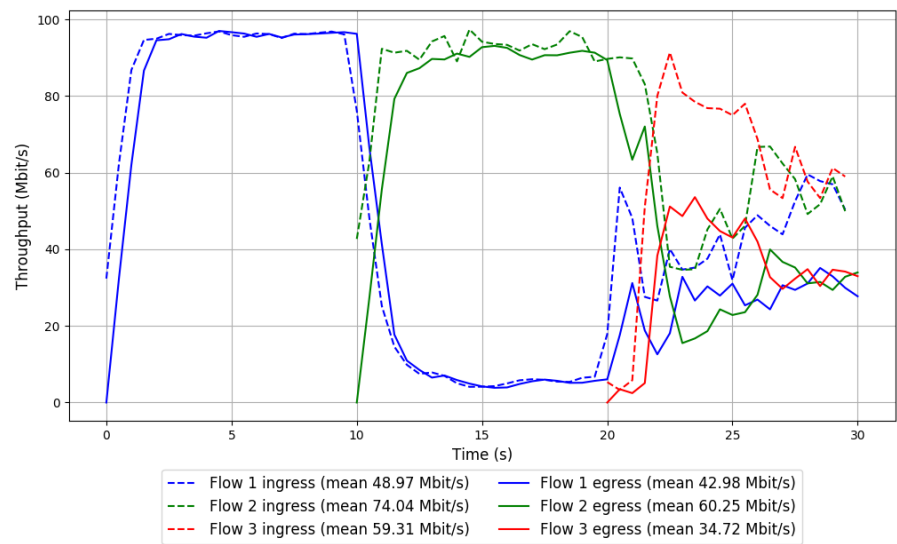


Run 1: Statistics of FillP

Start at: 2019-10-02 23:04:14  
End at: 2019-10-02 23:04:44  
Local clock offset: -5.473 ms  
Remote clock offset: -0.238 ms

# Below is generated by plot.py at 2019-10-03 00:58:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.58 Mbit/s  
95th percentile per-packet one-way delay: 28.817 ms  
Loss rate: 19.71%  
-- Flow 1:  
Average throughput: 42.98 Mbit/s  
95th percentile per-packet one-way delay: 28.108 ms  
Loss rate: 12.17%  
-- Flow 2:  
Average throughput: 60.25 Mbit/s  
95th percentile per-packet one-way delay: 28.876 ms  
Loss rate: 18.53%  
-- Flow 3:  
Average throughput: 34.72 Mbit/s  
95th percentile per-packet one-way delay: 28.943 ms  
Loss rate: 41.42%

Run 1: Report of FillP — Data Link





Run 2: Statistics of FillP

Start at: 2019-10-02 23:31:26

End at: 2019-10-02 23:31:56

Local clock offset: -6.049 ms

Remote clock offset: -0.28 ms

# Below is generated by plot.py at 2019-10-03 00:58:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.97 Mbit/s

95th percentile per-packet one-way delay: 28.751 ms

Loss rate: 20.61%

-- Flow 1:

Average throughput: 44.69 Mbit/s

95th percentile per-packet one-way delay: 28.325 ms

Loss rate: 13.62%

-- Flow 2:

Average throughput: 59.71 Mbit/s

95th percentile per-packet one-way delay: 28.786 ms

Loss rate: 19.19%

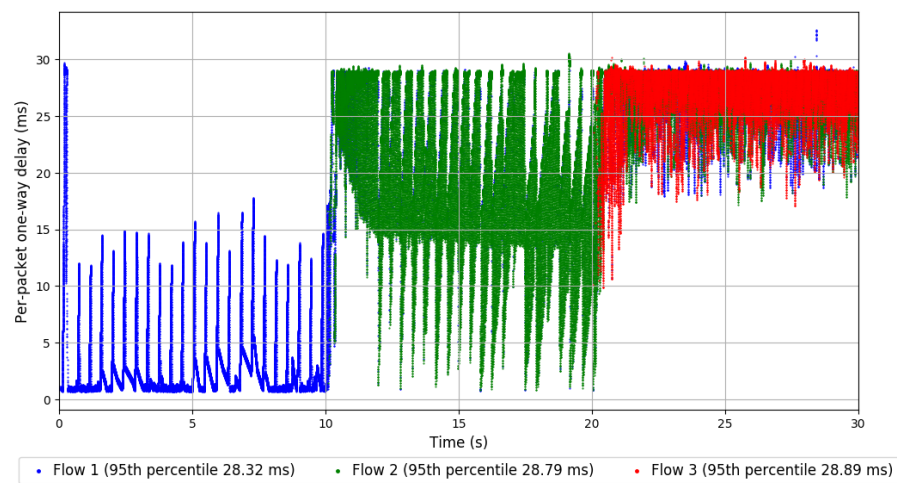
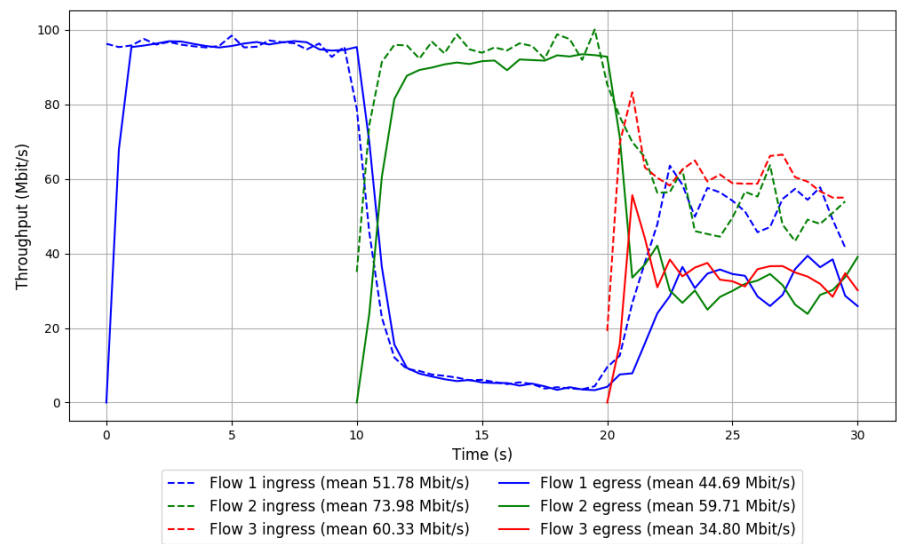
-- Flow 3:

Average throughput: 34.80 Mbit/s

95th percentile per-packet one-way delay: 28.893 ms

Loss rate: 42.22%

Run 2: Report of FillP — Data Link

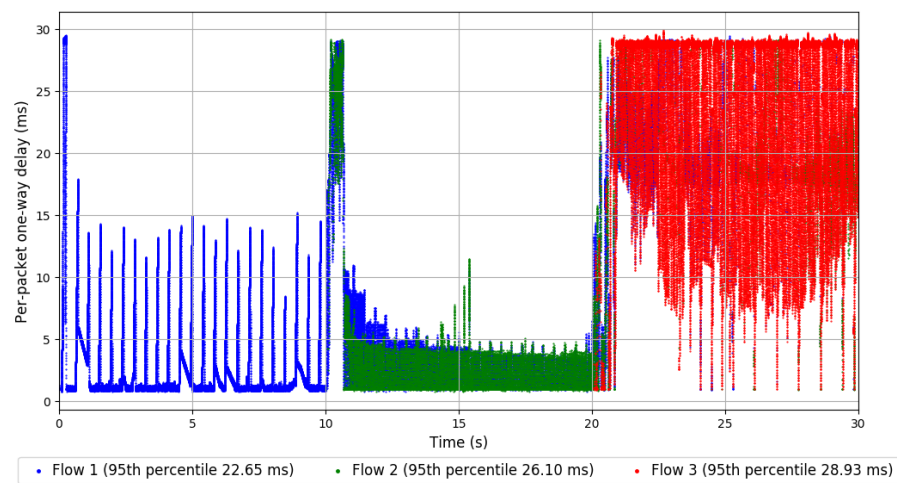
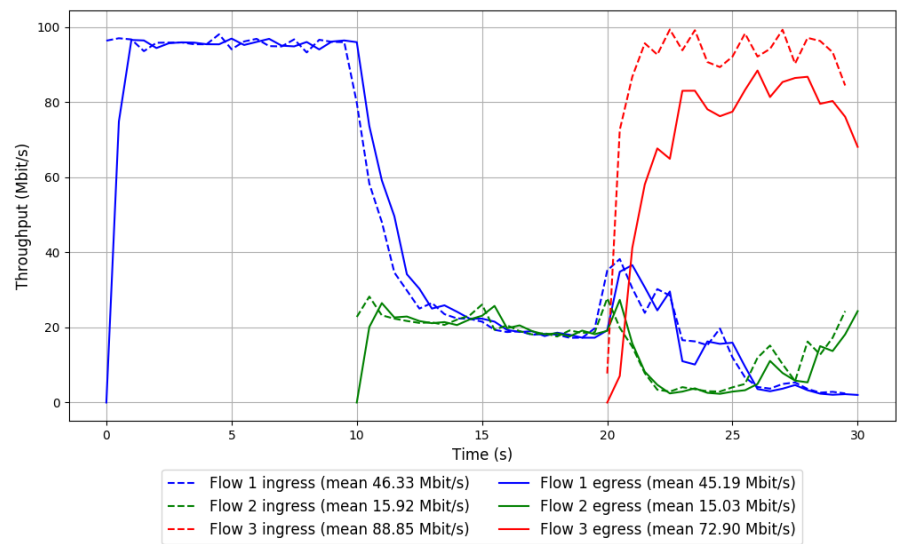


Run 3: Statistics of FillP

Start at: 2019-10-02 23:58:40  
End at: 2019-10-02 23:59:10  
Local clock offset: -6.986 ms  
Remote clock offset: -0.216 ms

# Below is generated by plot.py at 2019-10-03 00:58:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.40 Mbit/s  
95th percentile per-packet one-way delay: 28.781 ms  
Loss rate: 8.00%  
-- Flow 1:  
Average throughput: 45.19 Mbit/s  
95th percentile per-packet one-way delay: 22.654 ms  
Loss rate: 2.41%  
-- Flow 2:  
Average throughput: 15.03 Mbit/s  
95th percentile per-packet one-way delay: 26.099 ms  
Loss rate: 5.47%  
-- Flow 3:  
Average throughput: 72.90 Mbit/s  
95th percentile per-packet one-way delay: 28.929 ms  
Loss rate: 17.72%

Run 3: Report of FillP — Data Link

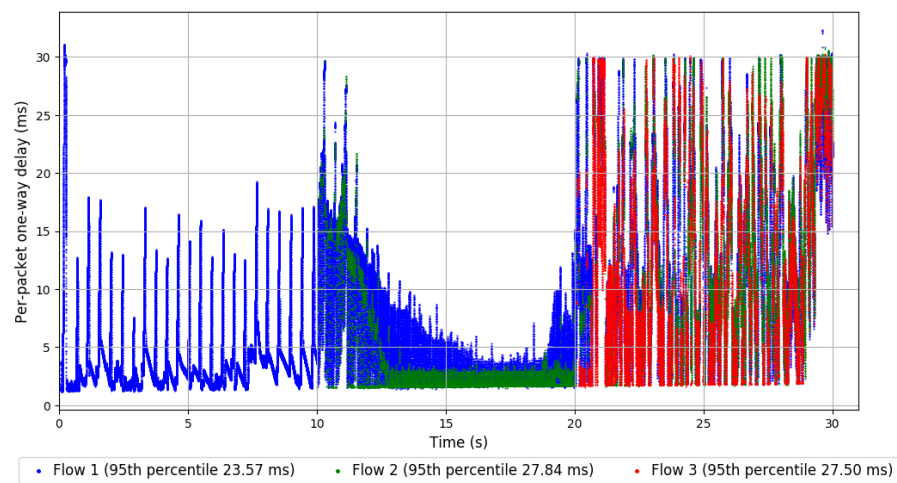
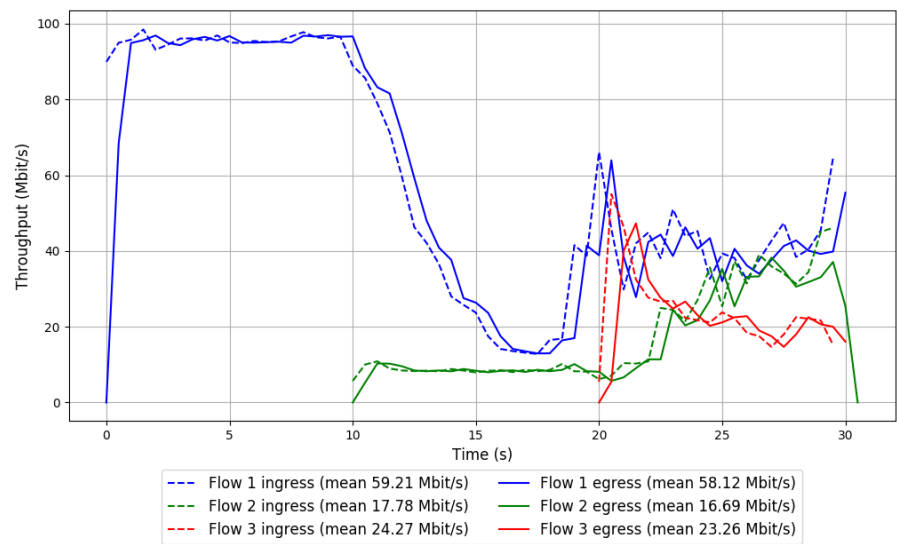


Run 4: Statistics of FillP

Start at: 2019-10-03 00:25:56  
End at: 2019-10-03 00:26:26  
Local clock offset: -5.898 ms  
Remote clock offset: -0.094 ms

# Below is generated by plot.py at 2019-10-03 00:58:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.94 Mbit/s  
95th percentile per-packet one-way delay: 25.579 ms  
Loss rate: 2.63%  
-- Flow 1:  
Average throughput: 58.12 Mbit/s  
95th percentile per-packet one-way delay: 23.571 ms  
Loss rate: 1.77%  
-- Flow 2:  
Average throughput: 16.69 Mbit/s  
95th percentile per-packet one-way delay: 27.840 ms  
Loss rate: 6.01%  
-- Flow 3:  
Average throughput: 23.26 Mbit/s  
95th percentile per-packet one-way delay: 27.500 ms  
Loss rate: 4.02%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-10-03 00:53:16

End at: 2019-10-03 00:53:46

Local clock offset: 7.238 ms

Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2019-10-03 00:58:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.93 Mbit/s

95th percentile per-packet one-way delay: 28.942 ms

Loss rate: 20.30%

-- Flow 1:

Average throughput: 52.60 Mbit/s

95th percentile per-packet one-way delay: 28.581 ms

Loss rate: 12.97%

-- Flow 2:

Average throughput: 46.85 Mbit/s

95th percentile per-packet one-way delay: 28.938 ms

Loss rate: 19.41%

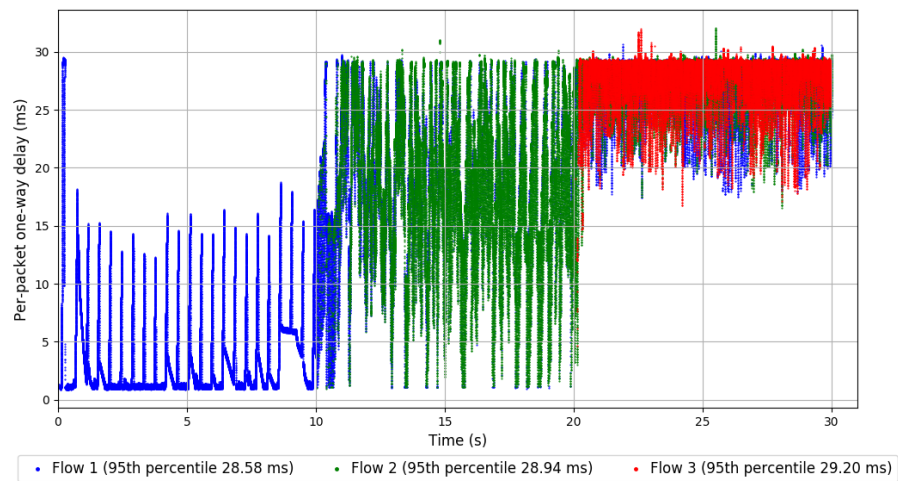
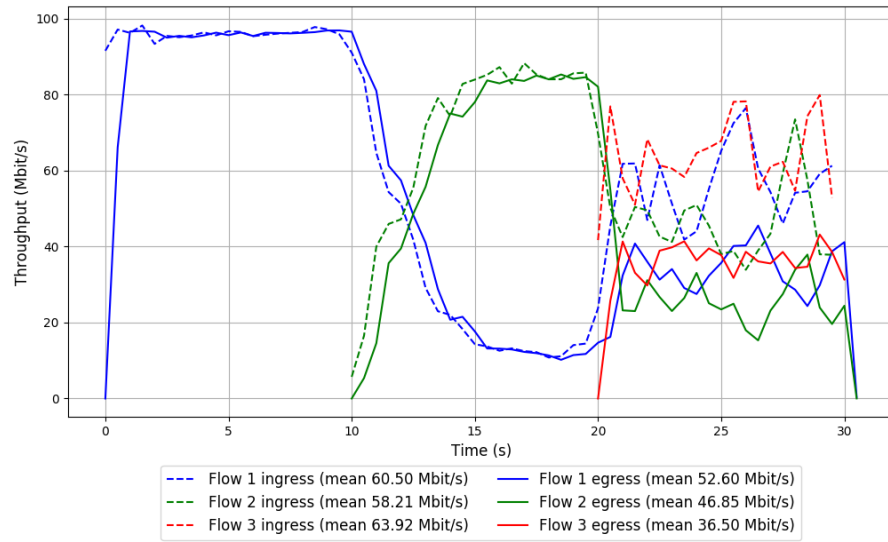
-- Flow 3:

Average throughput: 36.50 Mbit/s

95th percentile per-packet one-way delay: 29.201 ms

Loss rate: 42.83%

## Run 5: Report of FillP — Data Link



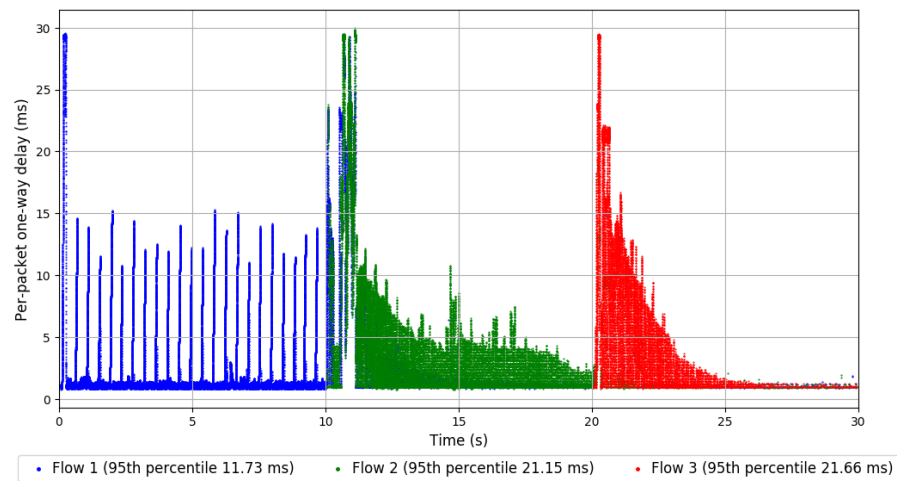
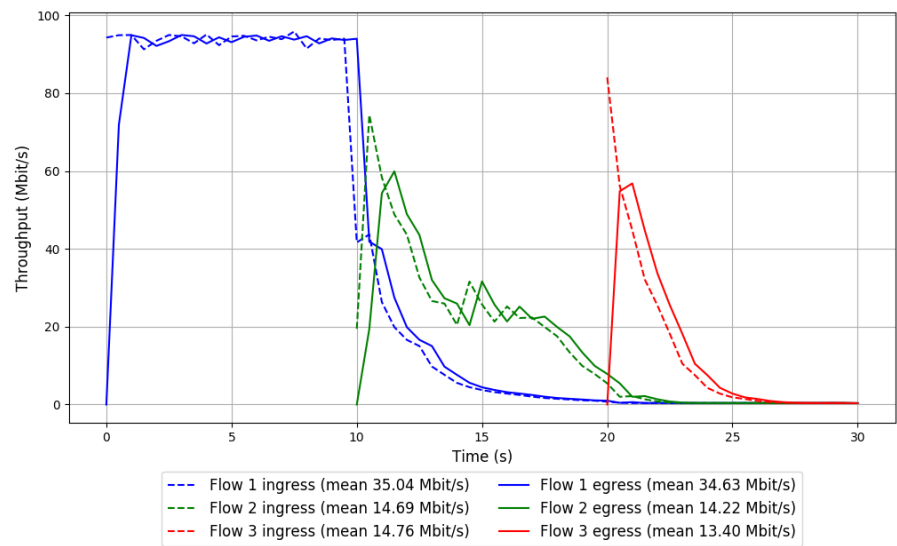


```
Run 1: Statistics of FillP-Sheep

Start at: 2019-10-02 23:01:59
End at: 2019-10-02 23:02:29
Local clock offset: -5.495 ms
Remote clock offset: -0.19 ms

# Below is generated by plot.py at 2019-10-03 00:58:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.52 Mbit/s
95th percentile per-packet one-way delay: 15.056 ms
Loss rate: 2.37%
-- Flow 1:
Average throughput: 34.63 Mbit/s
95th percentile per-packet one-way delay: 11.730 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 14.22 Mbit/s
95th percentile per-packet one-way delay: 21.146 ms
Loss rate: 3.17%
-- Flow 3:
Average throughput: 13.40 Mbit/s
95th percentile per-packet one-way delay: 21.660 ms
Loss rate: 9.20%
```

Run 1: Report of FillP-Sheep — Data Link

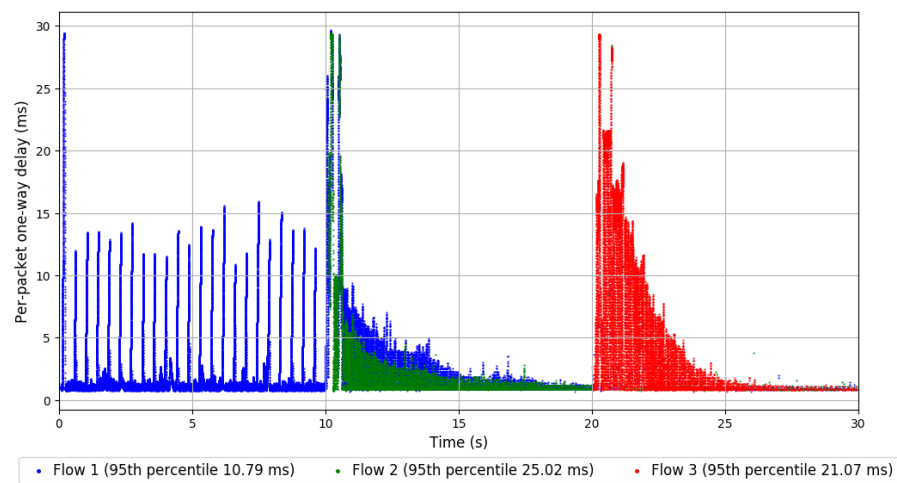
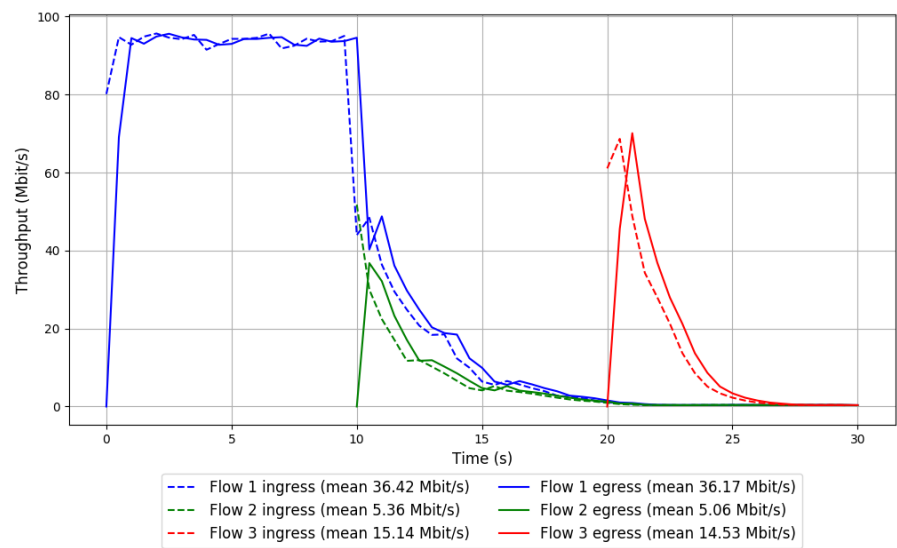


Run 2: Statistics of FillP-Sheep

Start at: 2019-10-02 23:29:11  
End at: 2019-10-02 23:29:41  
Local clock offset: -5.883 ms  
Remote clock offset: -0.233 ms

# Below is generated by plot.py at 2019-10-03 00:58:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 44.34 Mbit/s  
95th percentile per-packet one-way delay: 14.001 ms  
Loss rate: 1.45%  
-- Flow 1:  
Average throughput: 36.17 Mbit/s  
95th percentile per-packet one-way delay: 10.787 ms  
Loss rate: 0.68%  
-- Flow 2:  
Average throughput: 5.06 Mbit/s  
95th percentile per-packet one-way delay: 25.024 ms  
Loss rate: 5.61%  
-- Flow 3:  
Average throughput: 14.53 Mbit/s  
95th percentile per-packet one-way delay: 21.072 ms  
Loss rate: 4.06%

Run 2: Report of FillP-Sheep — Data Link

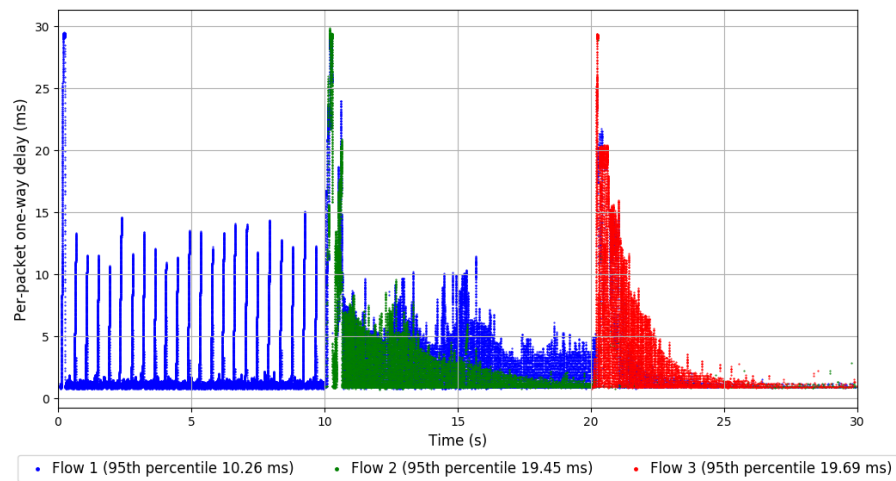
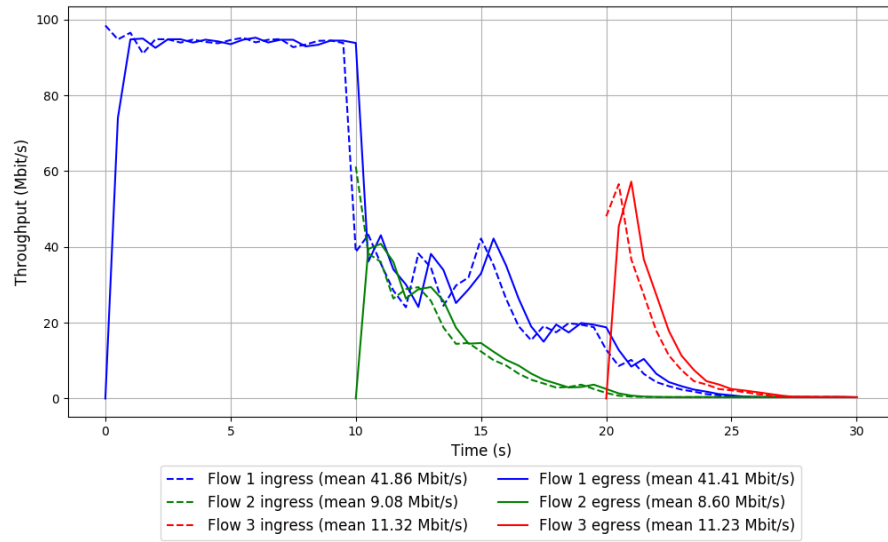


Run 3: Statistics of FillP-Sheep

Start at: 2019-10-02 23:56:25  
End at: 2019-10-02 23:56:55  
Local clock offset: -6.895 ms  
Remote clock offset: -0.165 ms

# Below is generated by plot.py at 2019-10-03 00:58:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 50.83 Mbit/s  
95th percentile per-packet one-way delay: 12.260 ms  
Loss rate: 1.56%  
-- Flow 1:  
Average throughput: 41.41 Mbit/s  
95th percentile per-packet one-way delay: 10.256 ms  
Loss rate: 1.07%  
-- Flow 2:  
Average throughput: 8.60 Mbit/s  
95th percentile per-packet one-way delay: 19.450 ms  
Loss rate: 5.31%  
-- Flow 3:  
Average throughput: 11.23 Mbit/s  
95th percentile per-packet one-way delay: 19.690 ms  
Loss rate: 0.87%

### Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-10-03 00:23:41

End at: 2019-10-03 00:24:11

Local clock offset: -7.285 ms

Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2019-10-03 00:58:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 51.60 Mbit/s

95th percentile per-packet one-way delay: 13.046 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 36.21 Mbit/s

95th percentile per-packet one-way delay: 11.025 ms

Loss rate: 1.14%

-- Flow 2:

Average throughput: 16.32 Mbit/s

95th percentile per-packet one-way delay: 9.738 ms

Loss rate: 1.47%

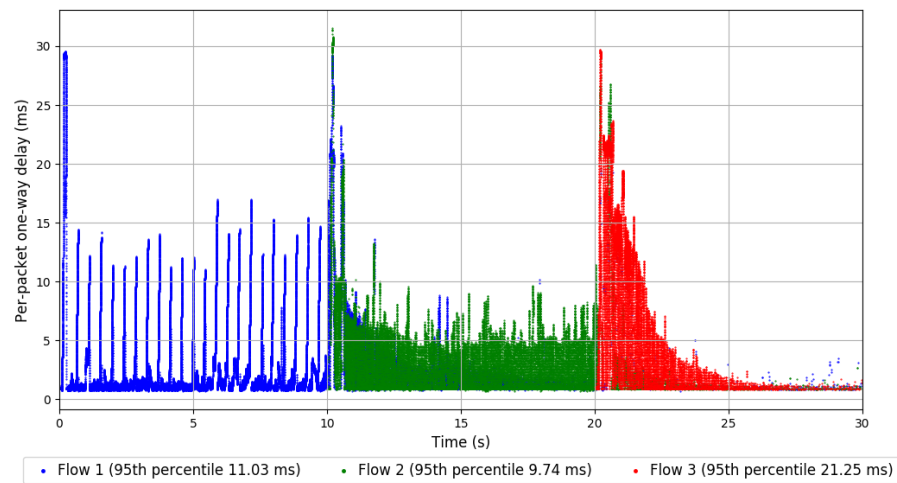
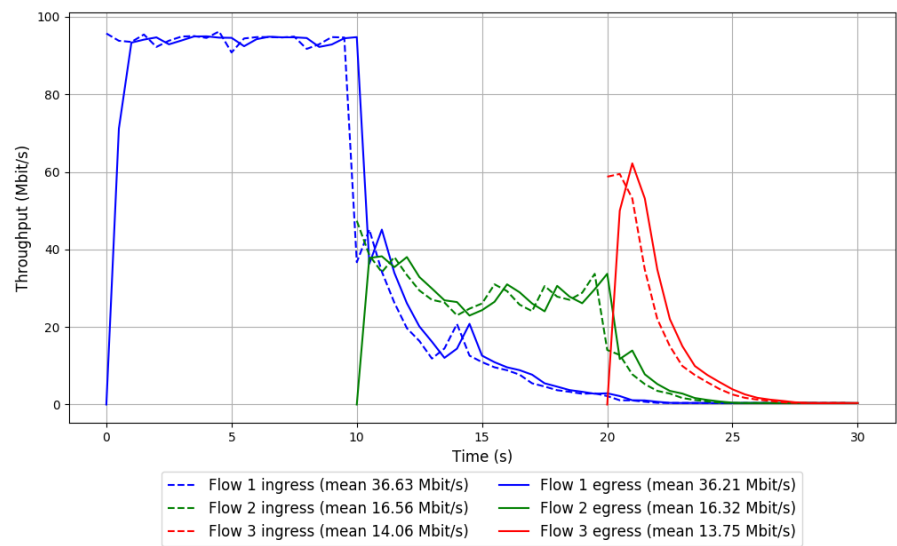
-- Flow 3:

Average throughput: 13.75 Mbit/s

95th percentile per-packet one-way delay: 21.246 ms

Loss rate: 2.15%

Run 4: Report of FillP-Sheep — Data Link





Run 5: Statistics of FillP-Sheep

Start at: 2019-10-03 00:51:02

End at: 2019-10-03 00:51:32

Local clock offset: 6.735 ms

Remote clock offset: 0.054 ms

# Below is generated by plot.py at 2019-10-03 00:58:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 44.19 Mbit/s

95th percentile per-packet one-way delay: 15.159 ms

Loss rate: 2.28%

-- Flow 1:

Average throughput: 35.25 Mbit/s

95th percentile per-packet one-way delay: 12.396 ms

Loss rate: 1.39%

-- Flow 2:

Average throughput: 6.53 Mbit/s

95th percentile per-packet one-way delay: 20.192 ms

Loss rate: 0.07%

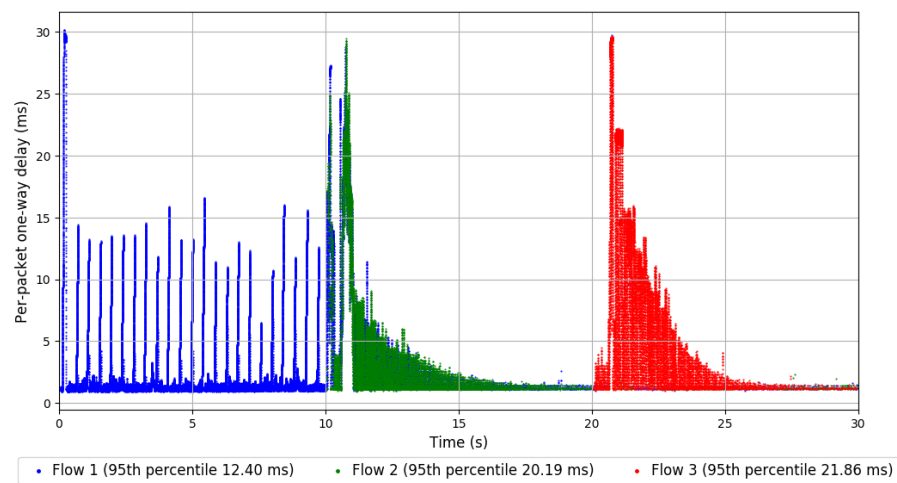
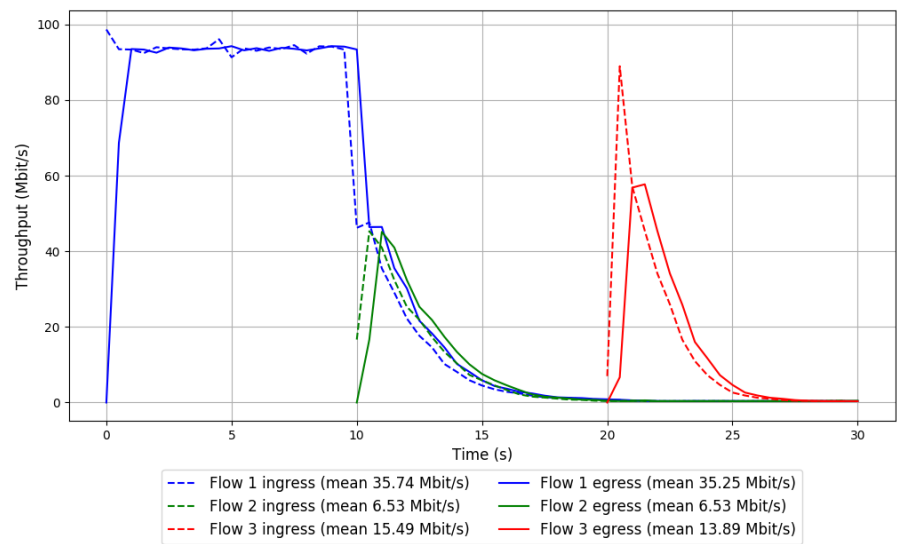
-- Flow 3:

Average throughput: 13.89 Mbit/s

95th percentile per-packet one-way delay: 21.857 ms

Loss rate: 10.33%

Run 5: Report of FillP-Sheep — Data Link

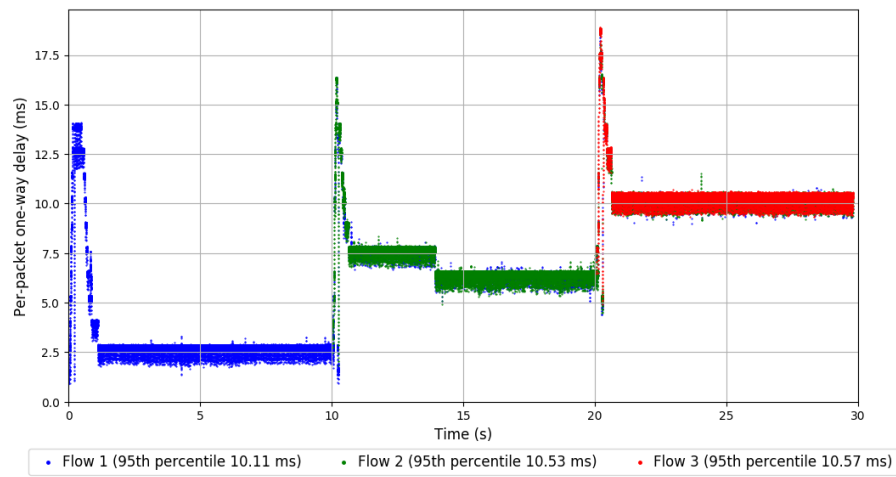
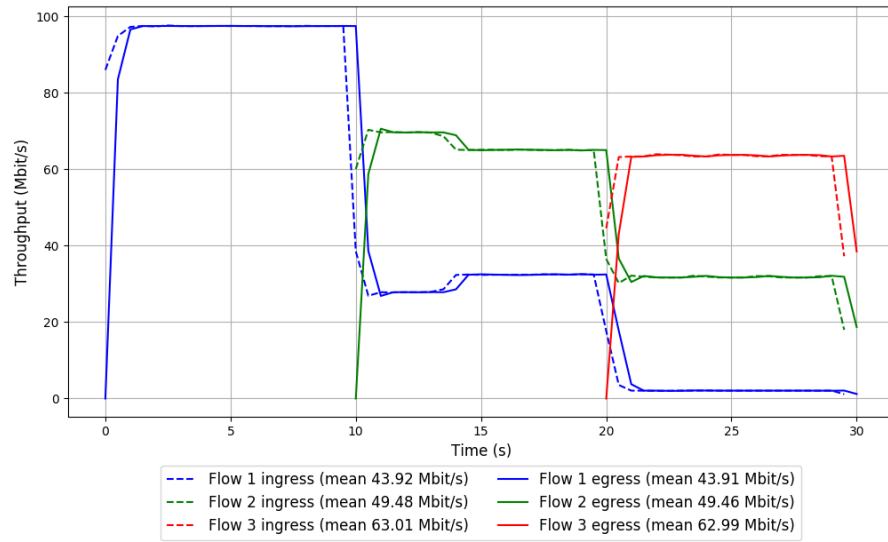


Run 1: Statistics of Indigo

Start at: 2019-10-02 22:59:42  
End at: 2019-10-02 23:00:12  
Local clock offset: -5.506 ms  
Remote clock offset: -0.202 ms

# Below is generated by plot.py at 2019-10-03 00:59:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.27 Mbit/s  
95th percentile per-packet one-way delay: 10.539 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 43.91 Mbit/s  
95th percentile per-packet one-way delay: 10.107 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 49.46 Mbit/s  
95th percentile per-packet one-way delay: 10.527 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 62.99 Mbit/s  
95th percentile per-packet one-way delay: 10.571 ms  
Loss rate: 0.00%

## Run 1: Report of Indigo — Data Link

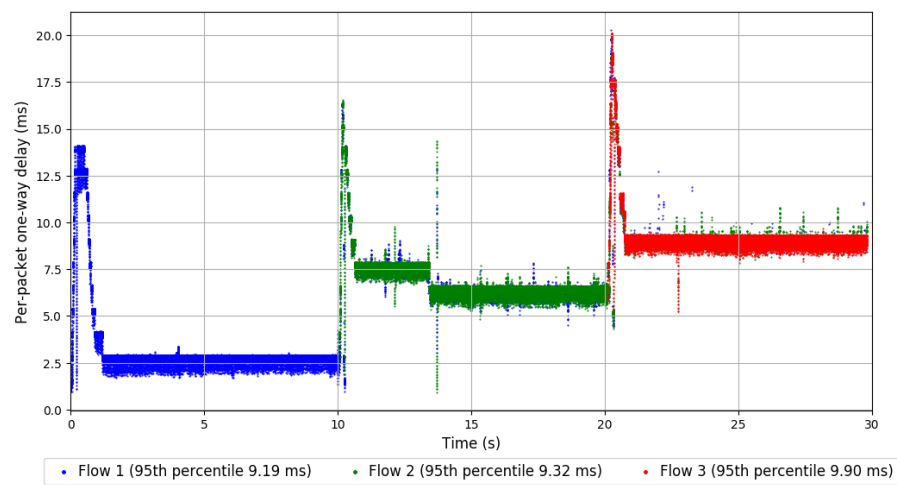
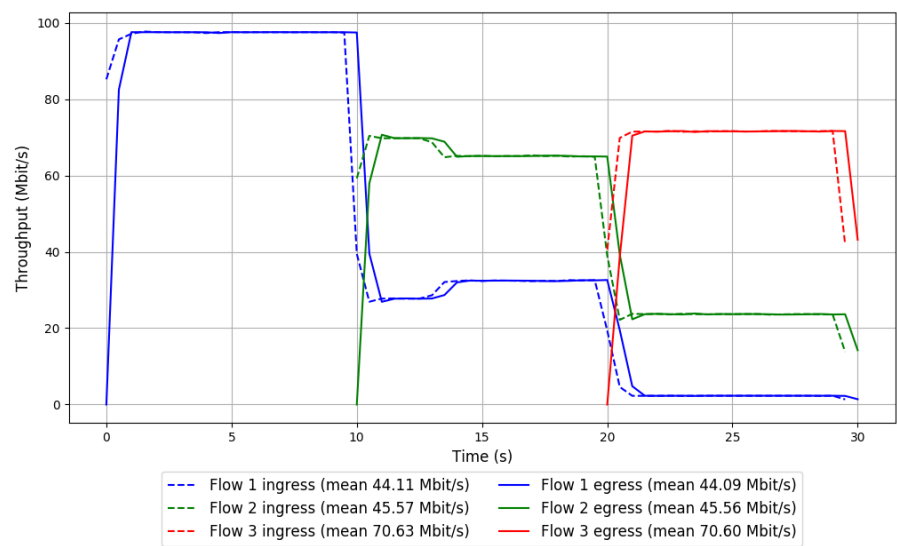


Run 2: Statistics of Indigo

Start at: 2019-10-02 23:26:55  
End at: 2019-10-02 23:27:25  
Local clock offset: -5.694 ms  
Remote clock offset: -0.218 ms

```
# Below is generated by plot.py at 2019-10-03 00:59:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.26 Mbit/s
95th percentile per-packet one-way delay: 9.322 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.09 Mbit/s
95th percentile per-packet one-way delay: 9.190 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 45.56 Mbit/s
95th percentile per-packet one-way delay: 9.323 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 70.60 Mbit/s
95th percentile per-packet one-way delay: 9.901 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link

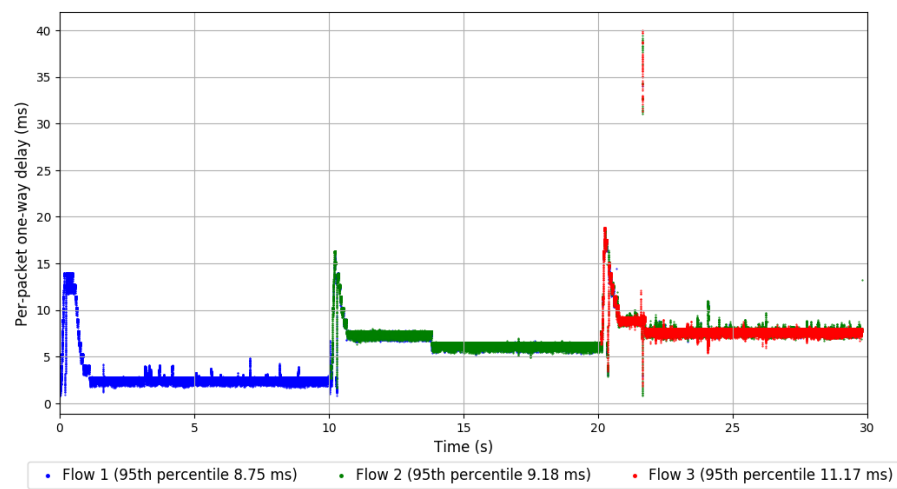
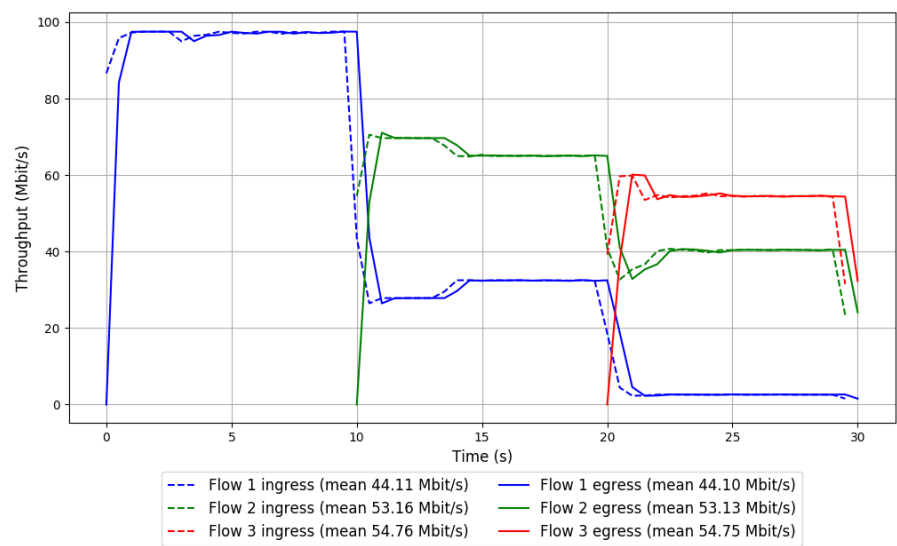


Run 3: Statistics of Indigo

Start at: 2019-10-02 23:54:09  
End at: 2019-10-02 23:54:39  
Local clock offset: -6.838 ms  
Remote clock offset: -0.258 ms

# Below is generated by plot.py at 2019-10-03 00:59:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.07 Mbit/s  
95th percentile per-packet one-way delay: 9.211 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 44.10 Mbit/s  
95th percentile per-packet one-way delay: 8.753 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 53.13 Mbit/s  
95th percentile per-packet one-way delay: 9.183 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 54.75 Mbit/s  
95th percentile per-packet one-way delay: 11.168 ms  
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



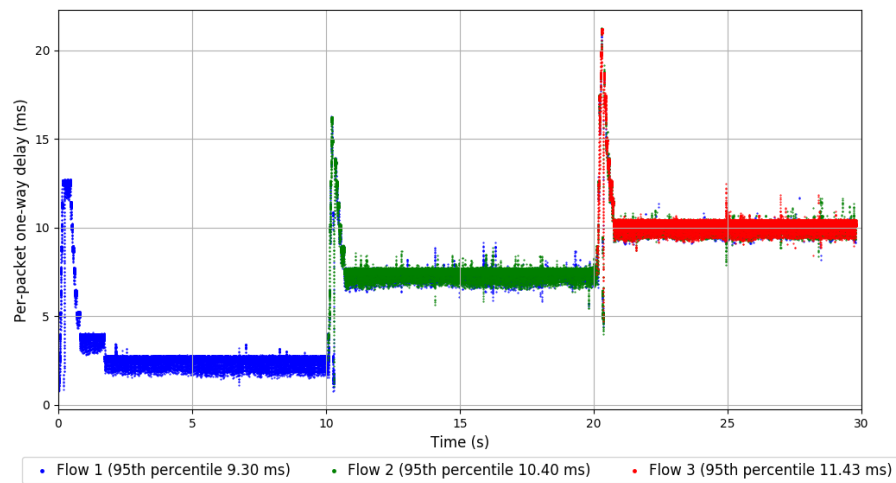
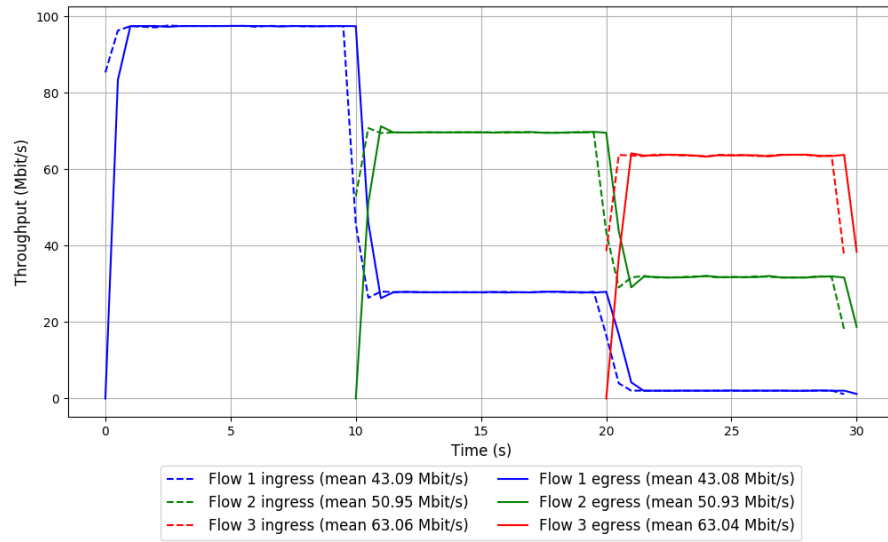


Run 4: Statistics of Indigo

Start at: 2019-10-03 00:21:24  
End at: 2019-10-03 00:21:54  
Local clock offset: -7.23 ms  
Remote clock offset: -0.162 ms

# Below is generated by plot.py at 2019-10-03 00:59:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.28 Mbit/s  
95th percentile per-packet one-way delay: 10.409 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 43.08 Mbit/s  
95th percentile per-packet one-way delay: 9.296 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 50.93 Mbit/s  
95th percentile per-packet one-way delay: 10.402 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 63.04 Mbit/s  
95th percentile per-packet one-way delay: 11.425 ms  
Loss rate: 0.00%

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

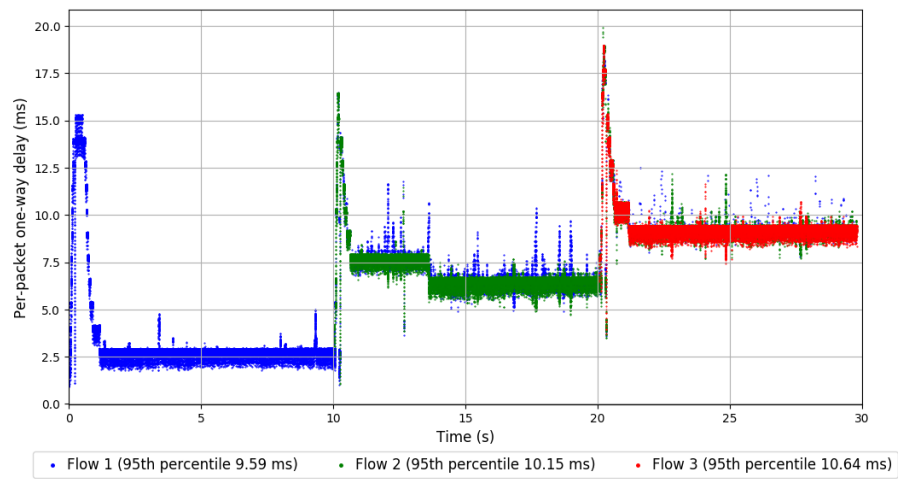
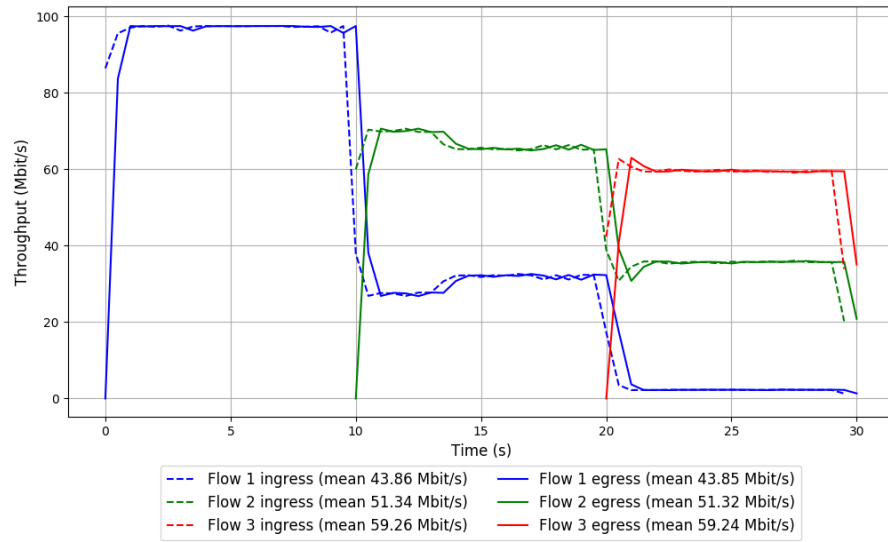


Run 5: Statistics of Indigo

Start at: 2019-10-03 00:48:45  
End at: 2019-10-03 00:49:15  
Local clock offset: 6.234 ms  
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2019-10-03 01:00:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.21 Mbit/s  
95th percentile per-packet one-way delay: 10.417 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 43.85 Mbit/s  
95th percentile per-packet one-way delay: 9.588 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 51.32 Mbit/s  
95th percentile per-packet one-way delay: 10.154 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 59.24 Mbit/s  
95th percentile per-packet one-way delay: 10.637 ms  
Loss rate: 0.01%

## Run 5: Report of Indigo — Data Link

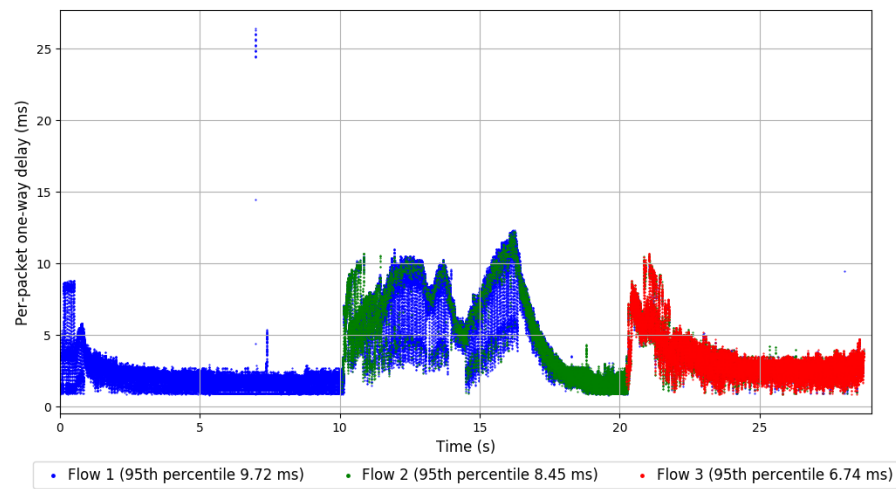
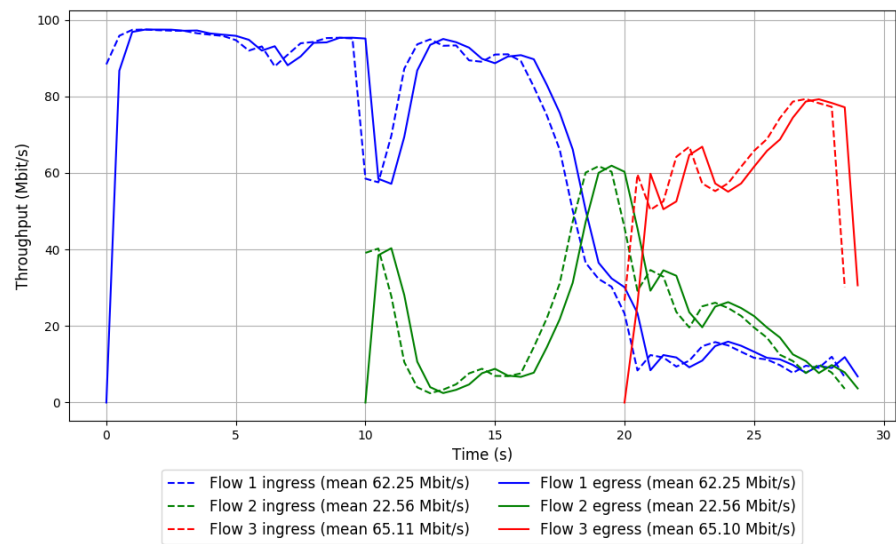


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-10-02 22:45:59  
End at: 2019-10-02 22:46:29  
Local clock offset: -5.578 ms  
Remote clock offset: -0.216 ms

# Below is generated by plot.py at 2019-10-03 01:00:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.10 Mbit/s  
95th percentile per-packet one-way delay: 9.366 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 62.25 Mbit/s  
95th percentile per-packet one-way delay: 9.721 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 22.56 Mbit/s  
95th percentile per-packet one-way delay: 8.450 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 65.10 Mbit/s  
95th percentile per-packet one-way delay: 6.736 ms  
Loss rate: 0.00%

Run 1: Report of Indigo-MusesC3 — Data Link

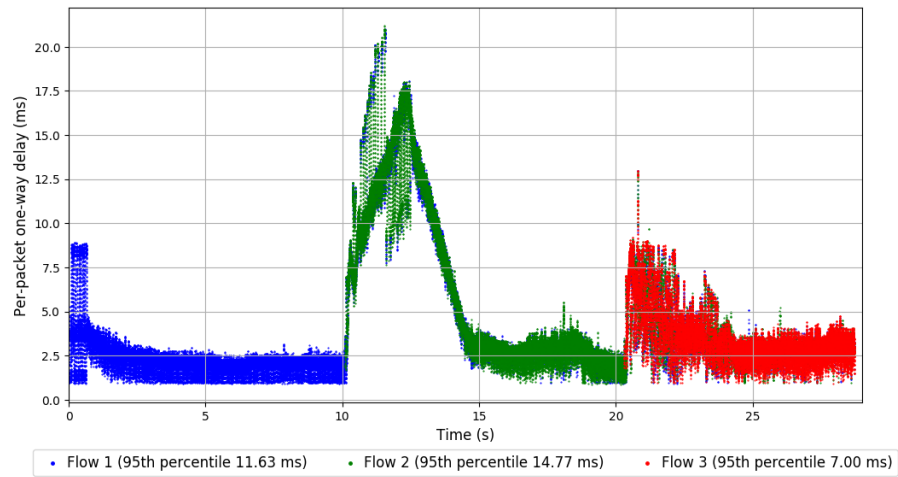
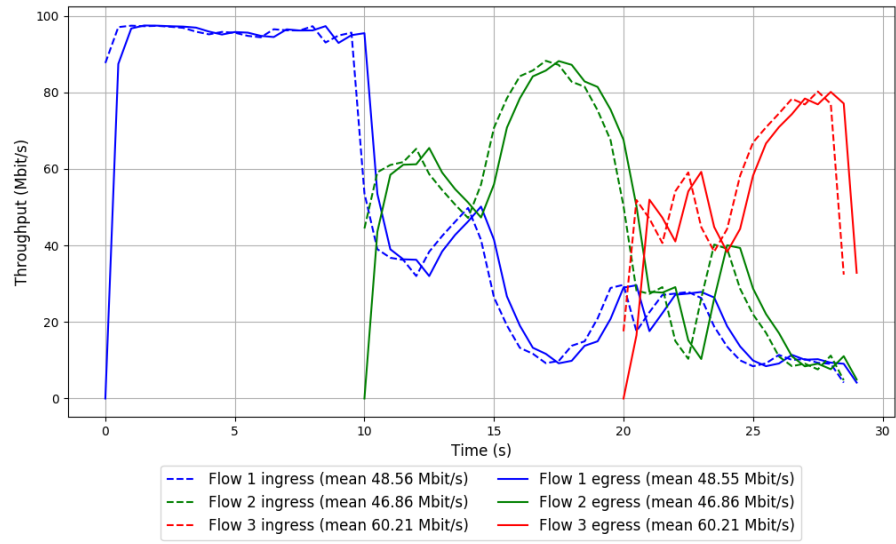


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-10-02 23:13:15  
End at: 2019-10-02 23:13:45  
Local clock offset: -5.416 ms  
Remote clock offset: -0.214 ms

# Below is generated by plot.py at 2019-10-03 01:00:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.59 Mbit/s  
95th percentile per-packet one-way delay: 12.753 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 48.55 Mbit/s  
95th percentile per-packet one-way delay: 11.628 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 46.86 Mbit/s  
95th percentile per-packet one-way delay: 14.772 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 60.21 Mbit/s  
95th percentile per-packet one-way delay: 6.999 ms  
Loss rate: 0.00%

## Run 2: Report of Indigo-MusesC3 — Data Link





Run 3: Statistics of Indigo-MusesC3

Start at: 2019-10-02 23:40:27

End at: 2019-10-02 23:40:57

Local clock offset: -6.53 ms

Remote clock offset: -0.27 ms

# Below is generated by plot.py at 2019-10-03 01:00:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.60 Mbit/s

95th percentile per-packet one-way delay: 15.324 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 47.63 Mbit/s

95th percentile per-packet one-way delay: 12.918 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.86 Mbit/s

95th percentile per-packet one-way delay: 16.649 ms

Loss rate: 0.00%

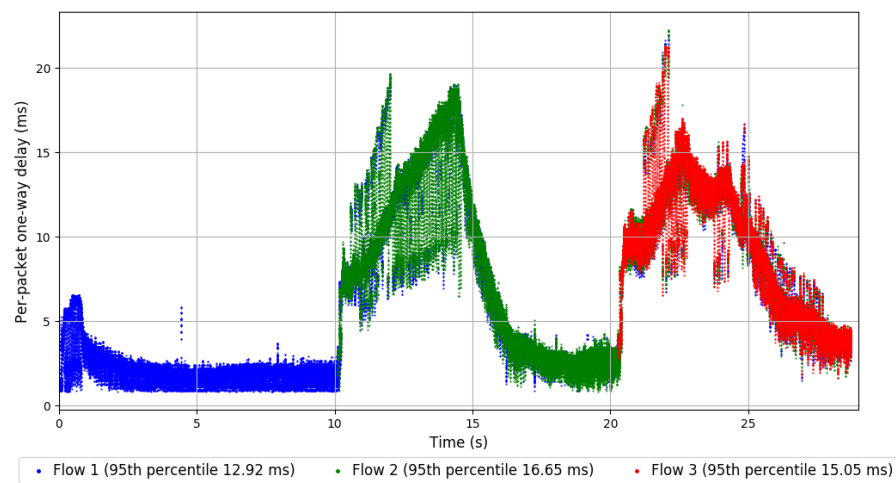
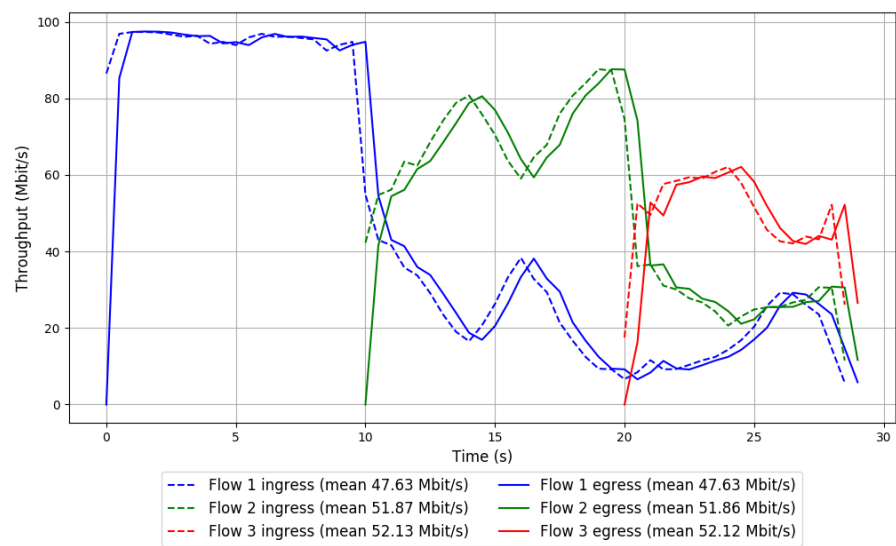
-- Flow 3:

Average throughput: 52.12 Mbit/s

95th percentile per-packet one-way delay: 15.051 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesC3 — Data Link

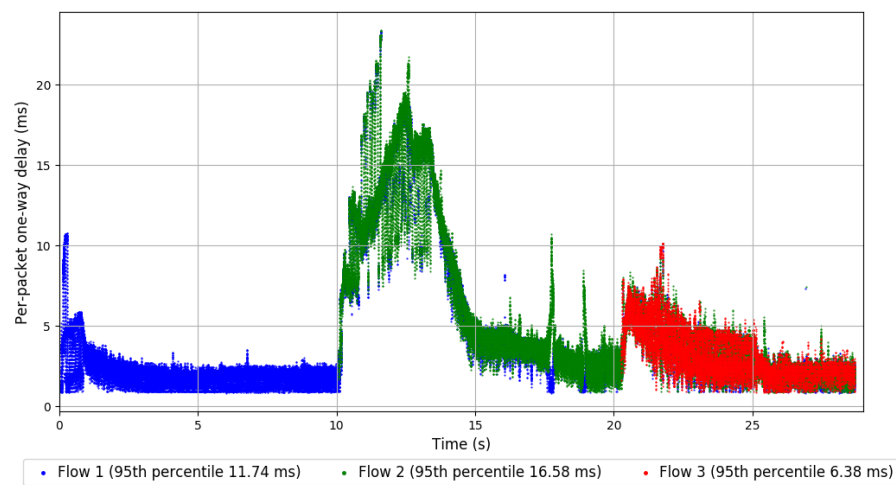
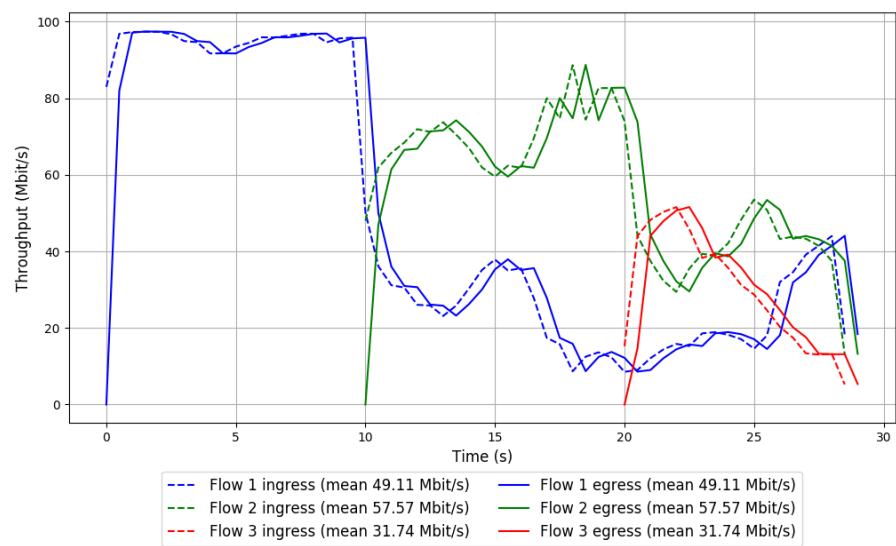


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-10-03 00:07:40  
End at: 2019-10-03 00:08:10  
Local clock offset: -7.074 ms  
Remote clock offset: -0.136 ms

# Below is generated by plot.py at 2019-10-03 01:00:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.82 Mbit/s  
95th percentile per-packet one-way delay: 15.241 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 49.11 Mbit/s  
95th percentile per-packet one-way delay: 11.740 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 57.57 Mbit/s  
95th percentile per-packet one-way delay: 16.576 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 31.74 Mbit/s  
95th percentile per-packet one-way delay: 6.384 ms  
Loss rate: 0.00%

Run 4: Report of Indigo-MusesC3 — Data Link

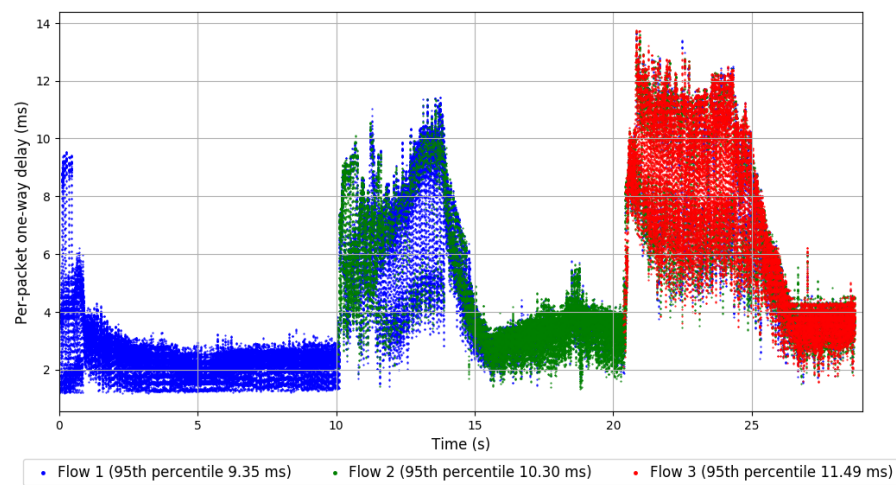
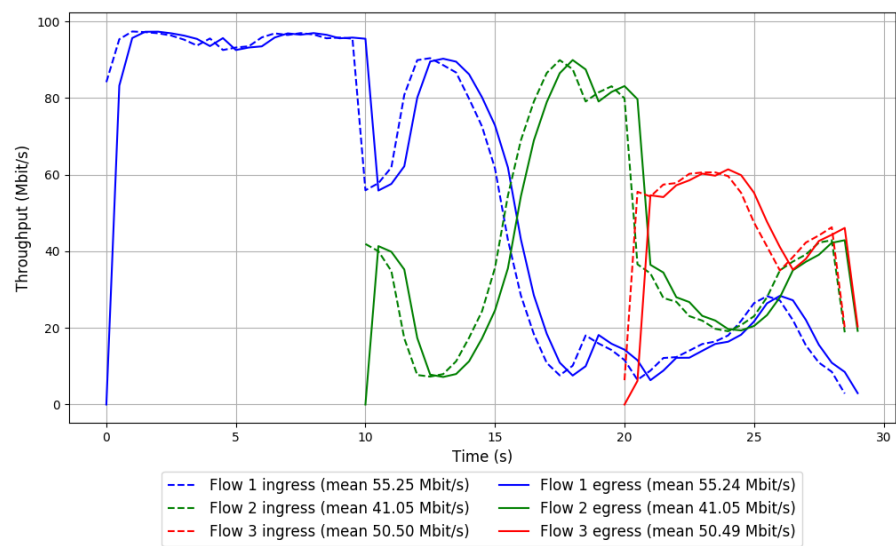


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-10-03 00:34:56  
End at: 2019-10-03 00:35:26  
Local clock offset: 1.313 ms  
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2019-10-03 01:00:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.59 Mbit/s  
95th percentile per-packet one-way delay: 10.253 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 55.24 Mbit/s  
95th percentile per-packet one-way delay: 9.350 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 41.05 Mbit/s  
95th percentile per-packet one-way delay: 10.301 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 50.49 Mbit/s  
95th percentile per-packet one-way delay: 11.488 ms  
Loss rate: 0.00%

Run 5: Report of Indigo-MusesC3 — Data Link

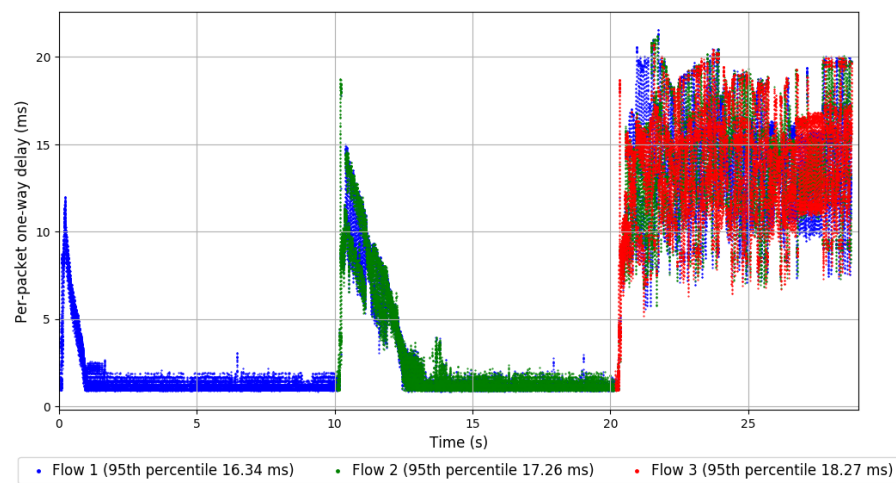
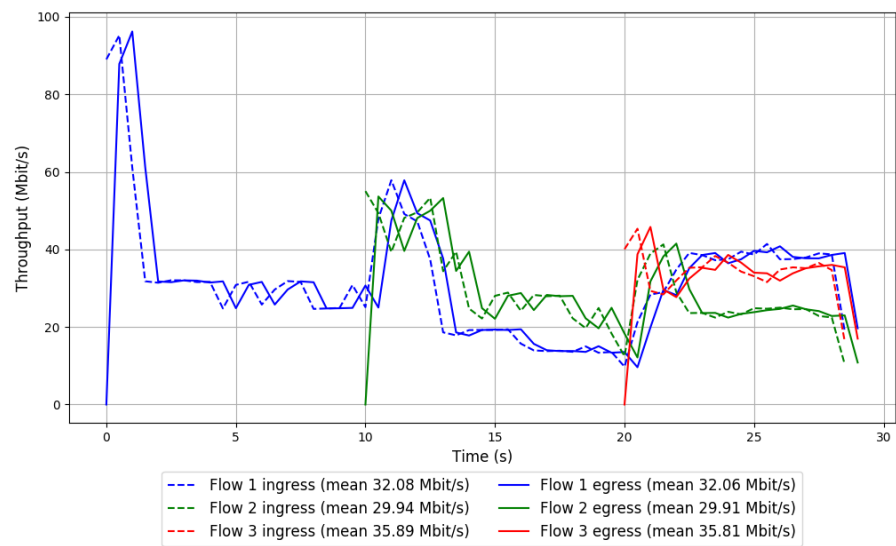


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-10-02 23:03:06  
End at: 2019-10-02 23:03:36  
Local clock offset: -5.563 ms  
Remote clock offset: -0.309 ms

# Below is generated by plot.py at 2019-10-03 01:00:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 62.13 Mbit/s  
95th percentile per-packet one-way delay: 17.222 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 32.06 Mbit/s  
95th percentile per-packet one-way delay: 16.335 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 29.91 Mbit/s  
95th percentile per-packet one-way delay: 17.264 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 35.81 Mbit/s  
95th percentile per-packet one-way delay: 18.265 ms  
Loss rate: 0.00%

Run 1: Report of Indigo-MusesC5 — Data Link



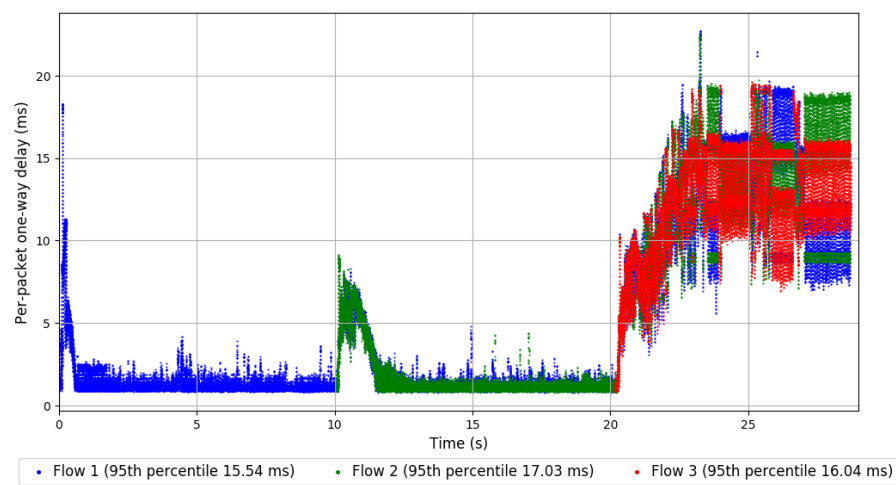
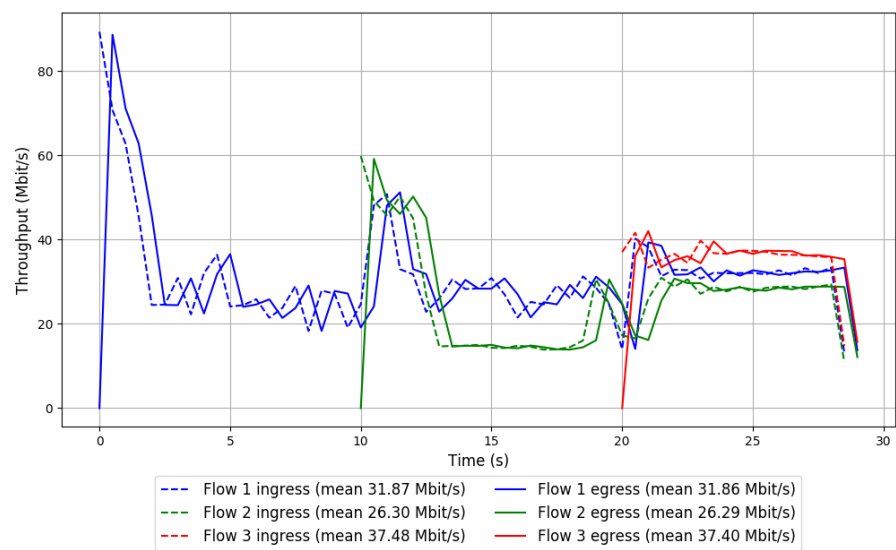


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-10-02 23:30:18  
End at: 2019-10-02 23:30:48  
Local clock offset: -5.969 ms  
Remote clock offset: -0.236 ms

# Below is generated by plot.py at 2019-10-03 01:00:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 60.07 Mbit/s  
95th percentile per-packet one-way delay: 16.033 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 31.86 Mbit/s  
95th percentile per-packet one-way delay: 15.535 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 26.29 Mbit/s  
95th percentile per-packet one-way delay: 17.028 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 37.40 Mbit/s  
95th percentile per-packet one-way delay: 16.036 ms  
Loss rate: 0.04%

Run 2: Report of Indigo-MusesC5 — Data Link

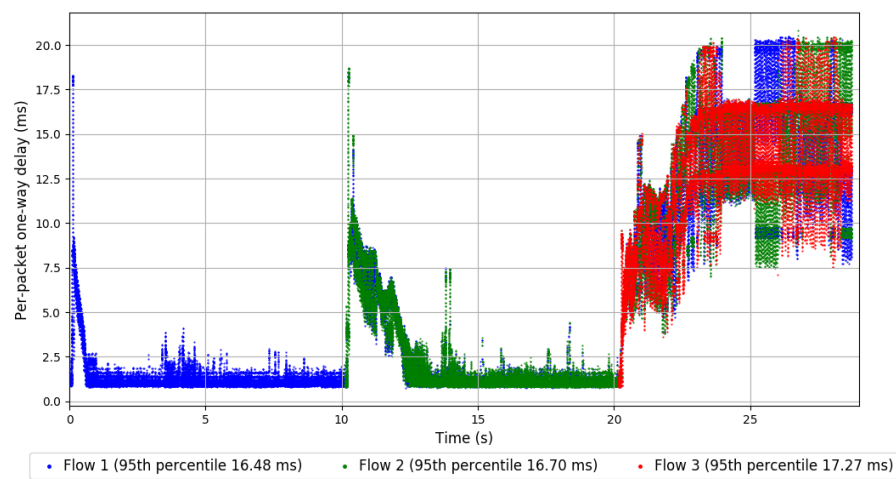
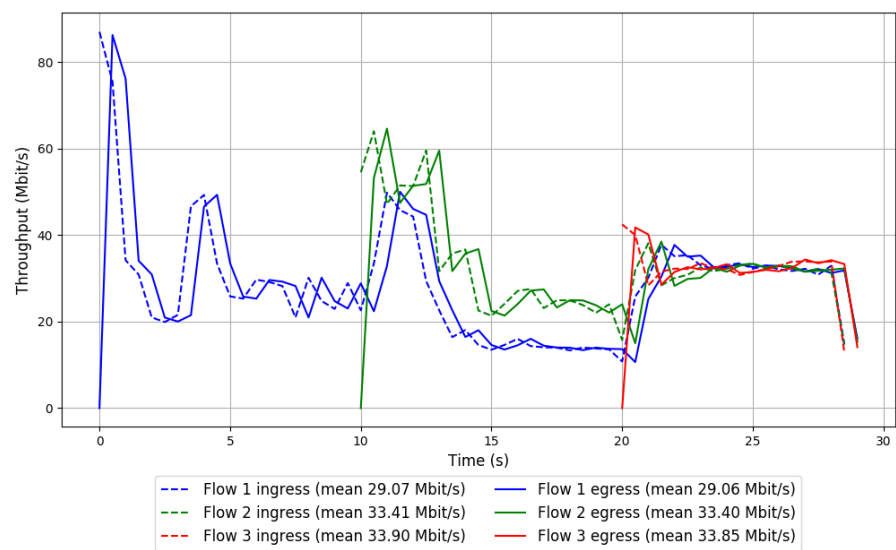


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-10-02 23:57:32  
End at: 2019-10-02 23:58:02  
Local clock offset: -6.907 ms  
Remote clock offset: -0.272 ms

# Below is generated by plot.py at 2019-10-03 01:00:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 60.80 Mbit/s  
95th percentile per-packet one-way delay: 16.679 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 29.06 Mbit/s  
95th percentile per-packet one-way delay: 16.478 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 33.40 Mbit/s  
95th percentile per-packet one-way delay: 16.698 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 33.85 Mbit/s  
95th percentile per-packet one-way delay: 17.272 ms  
Loss rate: 0.00%

Run 3: Report of Indigo-MusesC5 — Data Link

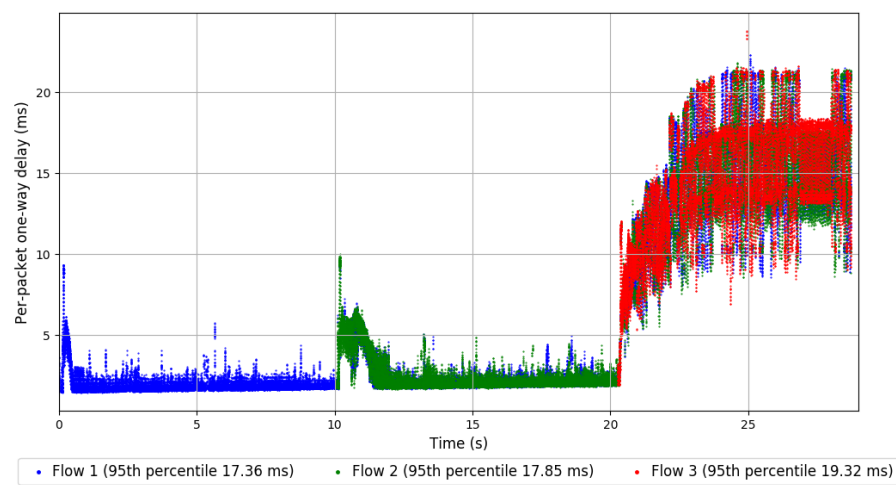
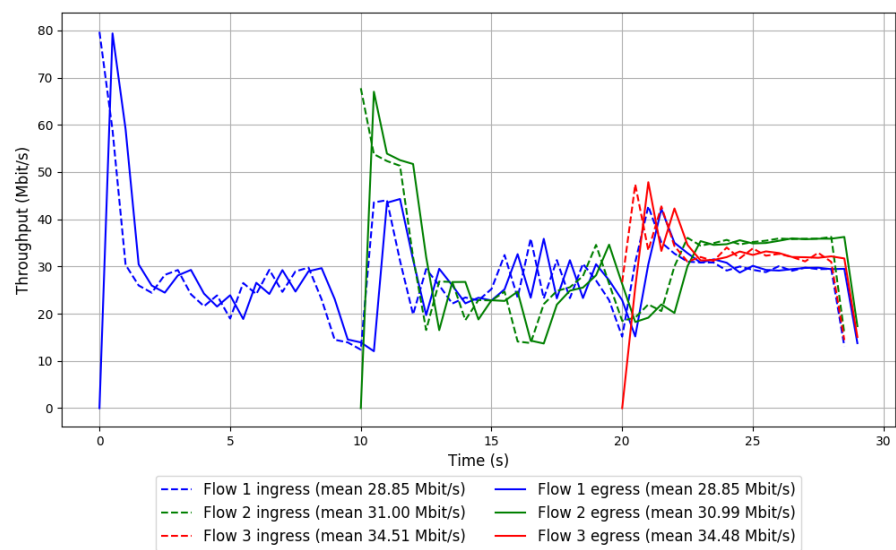


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-10-03 00:24:48  
End at: 2019-10-03 00:25:18  
Local clock offset: -7.351 ms  
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2019-10-03 01:00:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 59.16 Mbit/s  
95th percentile per-packet one-way delay: 17.984 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 28.85 Mbit/s  
95th percentile per-packet one-way delay: 17.359 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 30.99 Mbit/s  
95th percentile per-packet one-way delay: 17.846 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 34.48 Mbit/s  
95th percentile per-packet one-way delay: 19.315 ms  
Loss rate: 0.00%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-10-03 00:52:09

End at: 2019-10-03 00:52:39

Local clock offset: 7.028 ms

Remote clock offset: -0.0 ms

# Below is generated by plot.py at 2019-10-03 01:00:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 61.73 Mbit/s

95th percentile per-packet one-way delay: 18.210 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 32.83 Mbit/s

95th percentile per-packet one-way delay: 17.148 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 28.73 Mbit/s

95th percentile per-packet one-way delay: 19.090 ms

Loss rate: 0.00%

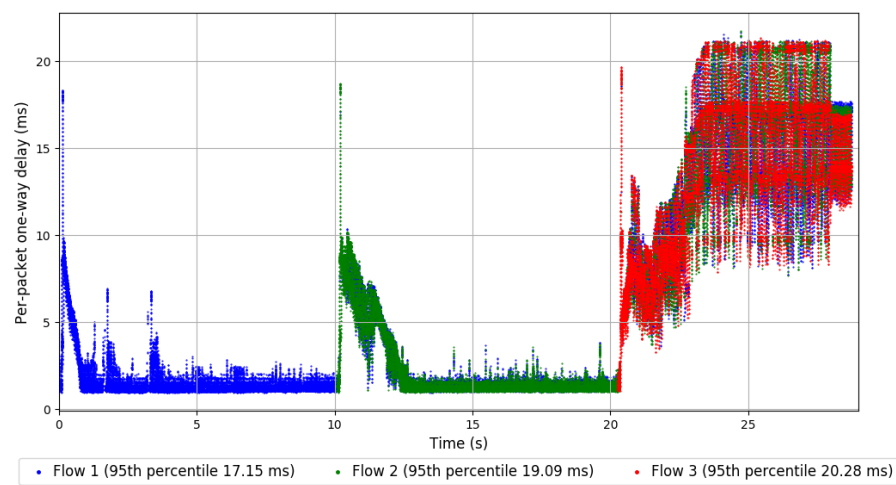
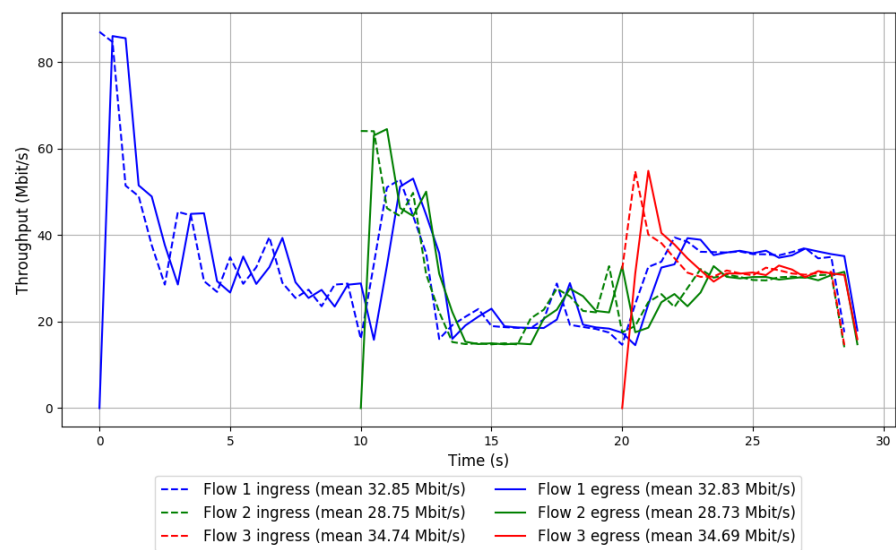
-- Flow 3:

Average throughput: 34.69 Mbit/s

95th percentile per-packet one-way delay: 20.282 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesC5 — Data Link



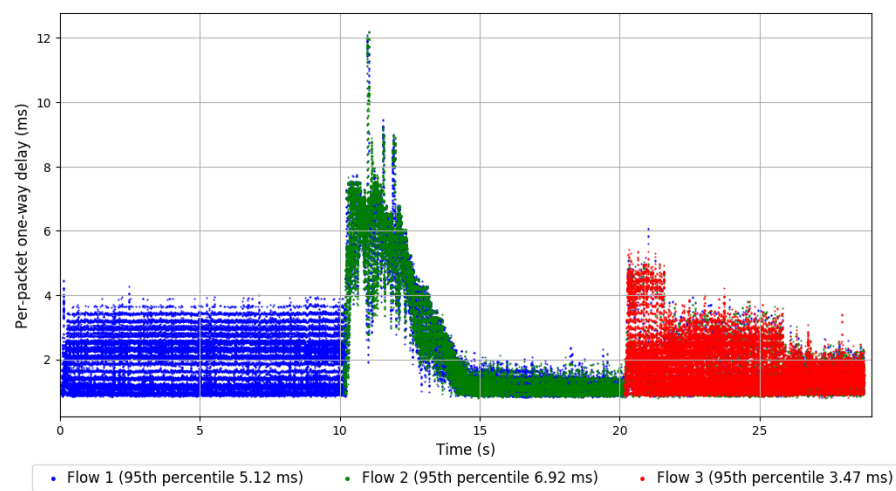
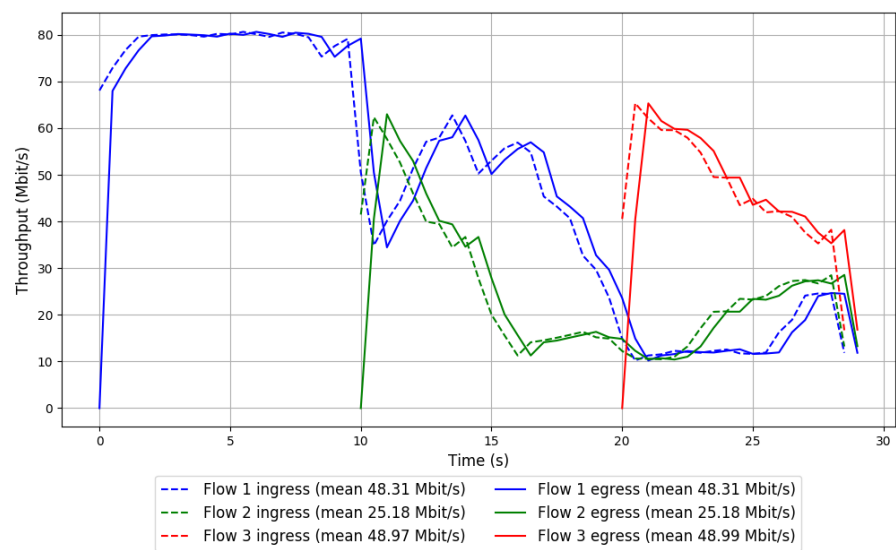


```
Run 1: Statistics of Indigo-MusesD

Start at: 2019-10-02 22:48:14
End at: 2019-10-02 22:48:44
Local clock offset: -5.573 ms
Remote clock offset: -0.207 ms

# Below is generated by plot.py at 2019-10-03 01:01:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.25 Mbit/s
95th percentile per-packet one-way delay: 5.829 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.31 Mbit/s
95th percentile per-packet one-way delay: 5.115 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 25.18 Mbit/s
95th percentile per-packet one-way delay: 6.919 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 48.99 Mbit/s
95th percentile per-packet one-way delay: 3.472 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesD — Data Link

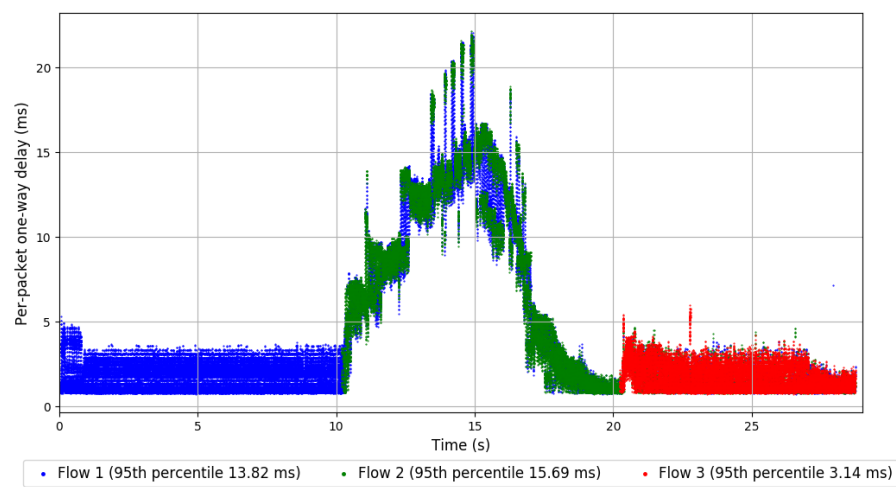
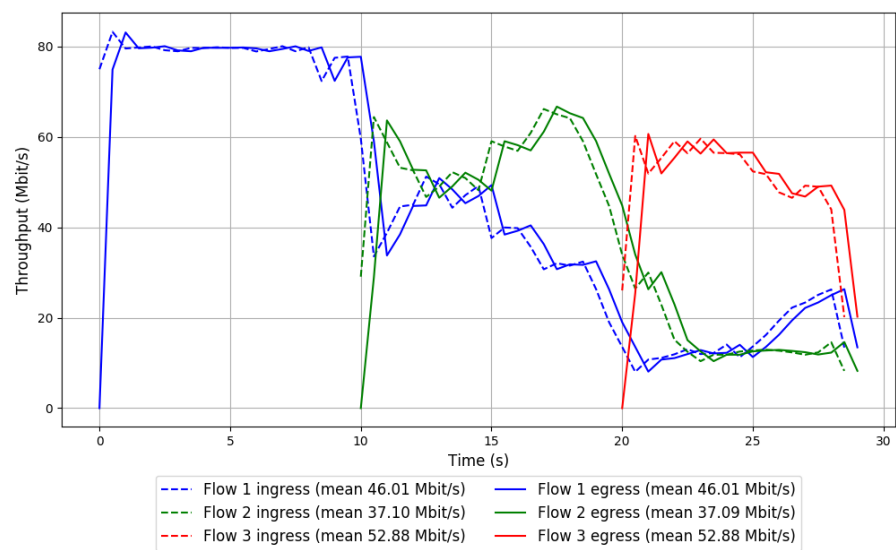


Run 2: Statistics of Indigo-MusesD

Start at: 2019-10-02 23:15:31  
End at: 2019-10-02 23:16:01  
Local clock offset: -5.4 ms  
Remote clock offset: -0.351 ms

# Below is generated by plot.py at 2019-10-03 01:01:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.58 Mbit/s  
95th percentile per-packet one-way delay: 14.288 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 46.01 Mbit/s  
95th percentile per-packet one-way delay: 13.817 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 37.09 Mbit/s  
95th percentile per-packet one-way delay: 15.685 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 52.88 Mbit/s  
95th percentile per-packet one-way delay: 3.144 ms  
Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link

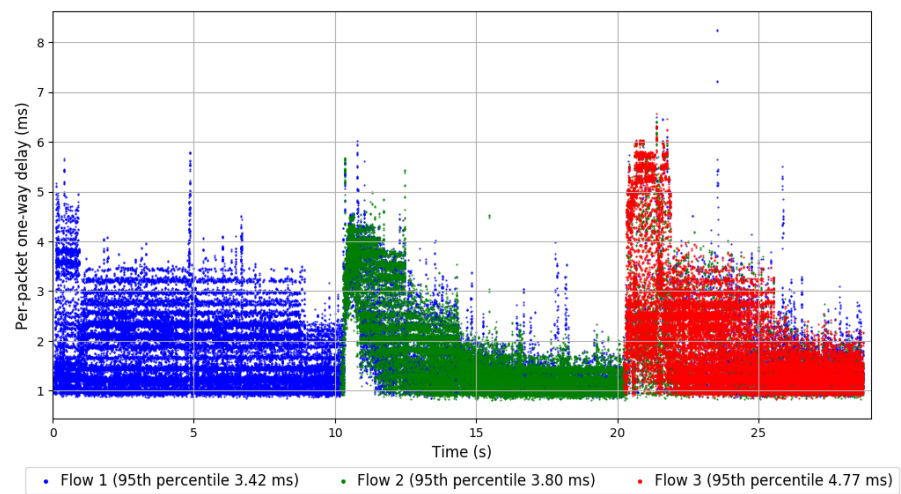
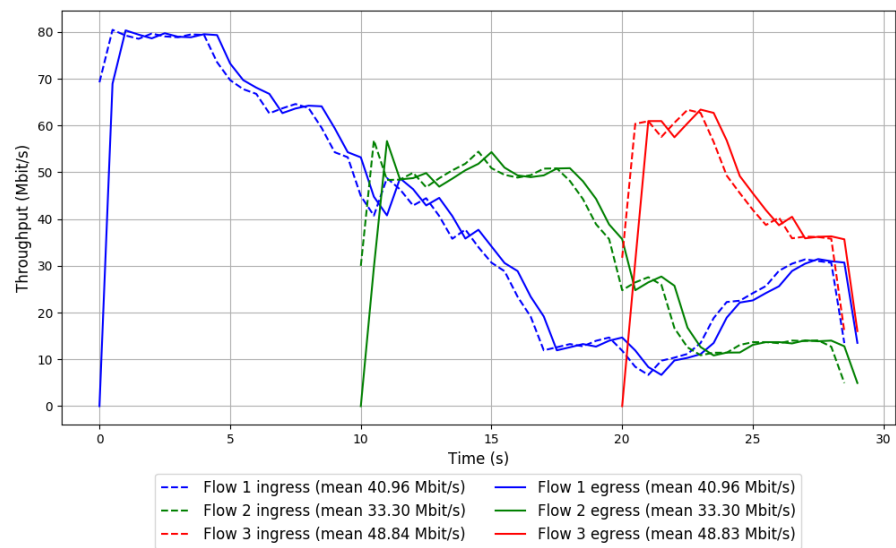


Run 3: Statistics of Indigo-MusesD

Start at: 2019-10-02 23:42:43  
End at: 2019-10-02 23:43:13  
Local clock offset: -6.604 ms  
Remote clock offset: -0.204 ms

# Below is generated by plot.py at 2019-10-03 01:01:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.89 Mbit/s  
95th percentile per-packet one-way delay: 3.696 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 40.96 Mbit/s  
95th percentile per-packet one-way delay: 3.424 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 33.30 Mbit/s  
95th percentile per-packet one-way delay: 3.798 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 48.83 Mbit/s  
95th percentile per-packet one-way delay: 4.770 ms  
Loss rate: 0.00%

Run 3: Report of Indigo-MusesD — Data Link

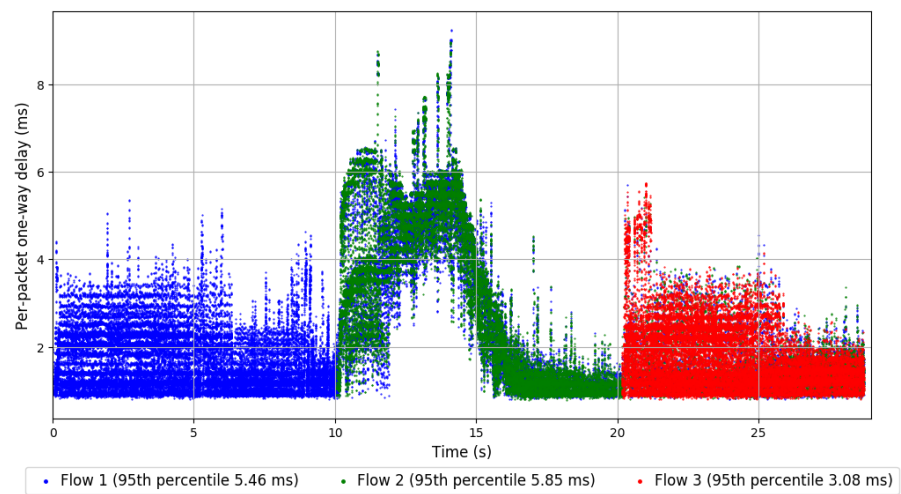
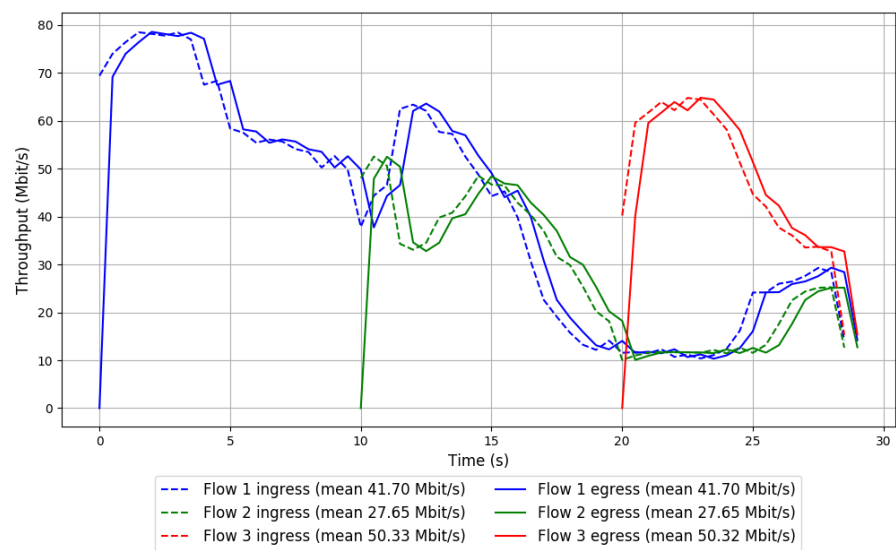


Run 4: Statistics of Indigo-MusesD

Start at: 2019-10-03 00:09:56  
End at: 2019-10-03 00:10:26  
Local clock offset: -7.094 ms  
Remote clock offset: -0.121 ms

# Below is generated by plot.py at 2019-10-03 01:01:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.68 Mbit/s  
95th percentile per-packet one-way delay: 5.484 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 41.70 Mbit/s  
95th percentile per-packet one-way delay: 5.462 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 27.65 Mbit/s  
95th percentile per-packet one-way delay: 5.854 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 50.32 Mbit/s  
95th percentile per-packet one-way delay: 3.075 ms  
Loss rate: 0.00%

Run 4: Report of Indigo-MusesD — Data Link



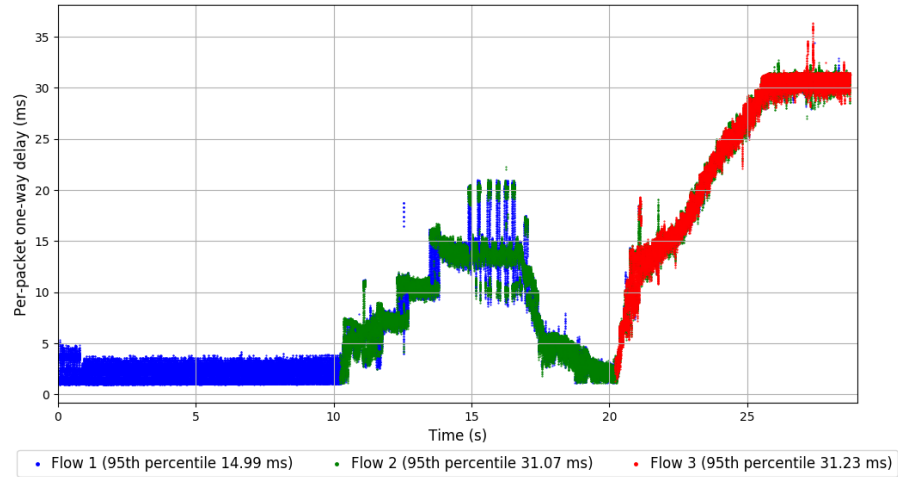
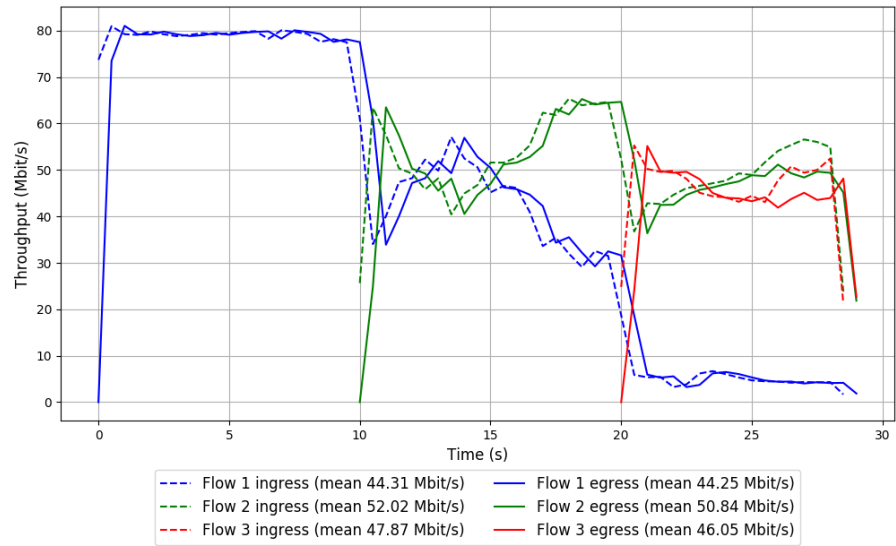


Run 5: Statistics of Indigo-MusesD

Start at: 2019-10-03 00:37:11  
End at: 2019-10-03 00:37:41  
Local clock offset: 2.476 ms  
Remote clock offset: -0.157 ms

# Below is generated by plot.py at 2019-10-03 01:01:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.66 Mbit/s  
95th percentile per-packet one-way delay: 30.956 ms  
Loss rate: 1.32%  
-- Flow 1:  
Average throughput: 44.25 Mbit/s  
95th percentile per-packet one-way delay: 14.994 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 50.84 Mbit/s  
95th percentile per-packet one-way delay: 31.065 ms  
Loss rate: 2.11%  
-- Flow 3:  
Average throughput: 46.05 Mbit/s  
95th percentile per-packet one-way delay: 31.234 ms  
Loss rate: 3.47%

## Run 5: Report of Indigo-MusesD — Data Link

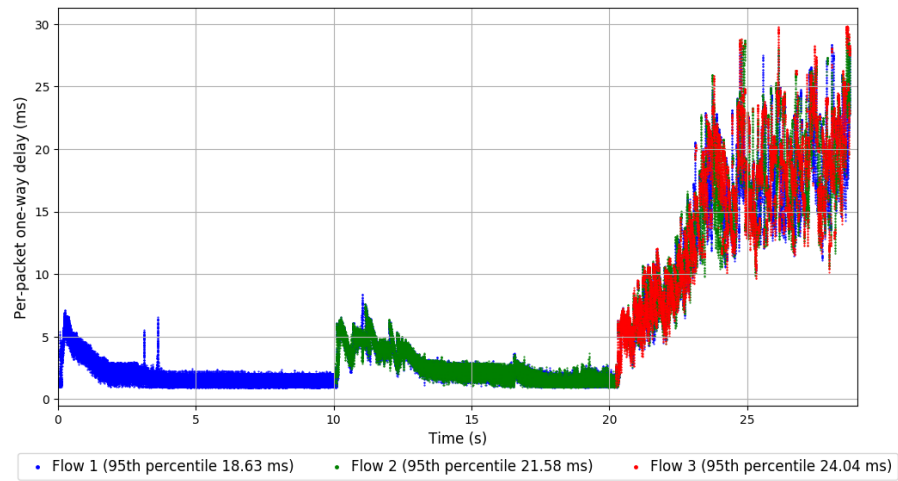
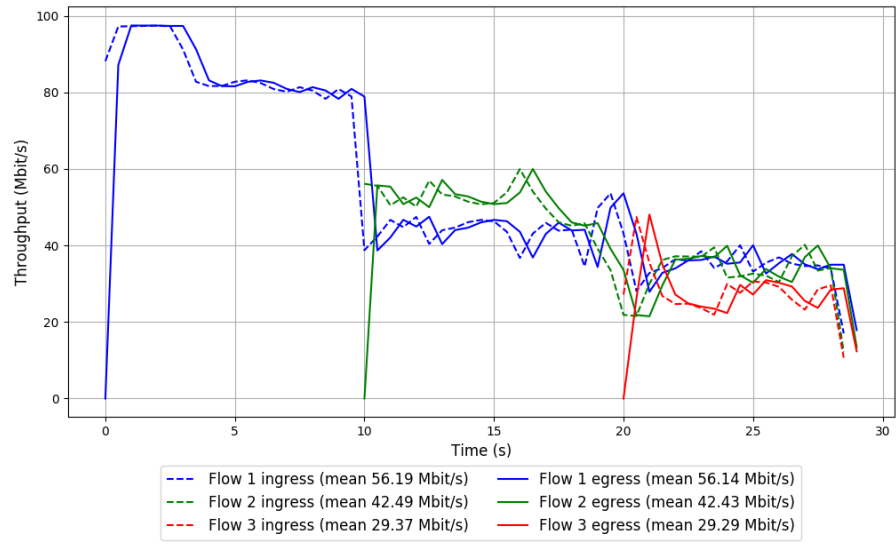


Run 1: Statistics of Indigo-MusesT

Start at: 2019-10-02 22:43:43  
End at: 2019-10-02 22:44:13  
Local clock offset: -5.642 ms  
Remote clock offset: -0.219 ms

# Below is generated by plot.py at 2019-10-03 01:01:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.37 Mbit/s  
95th percentile per-packet one-way delay: 20.908 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 56.14 Mbit/s  
95th percentile per-packet one-way delay: 18.626 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 42.43 Mbit/s  
95th percentile per-packet one-way delay: 21.581 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 29.29 Mbit/s  
95th percentile per-packet one-way delay: 24.035 ms  
Loss rate: 0.00%

# Run 1: Report of Indigo-MusesT — Data Link

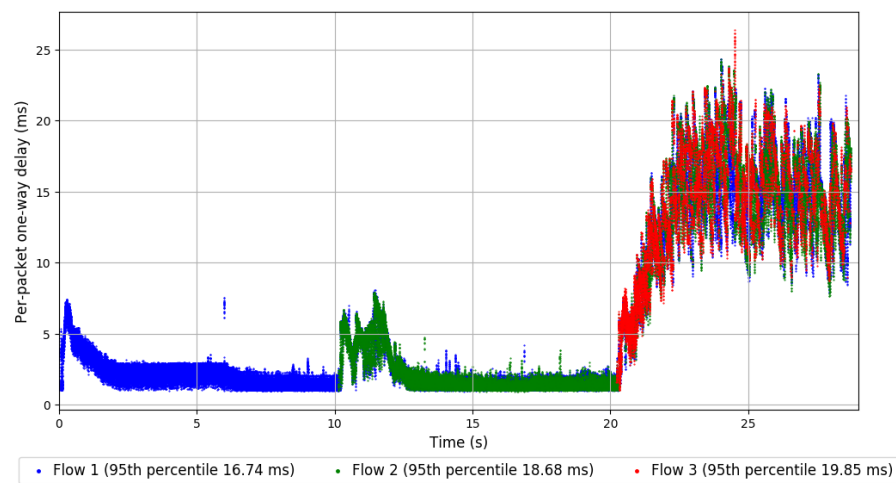
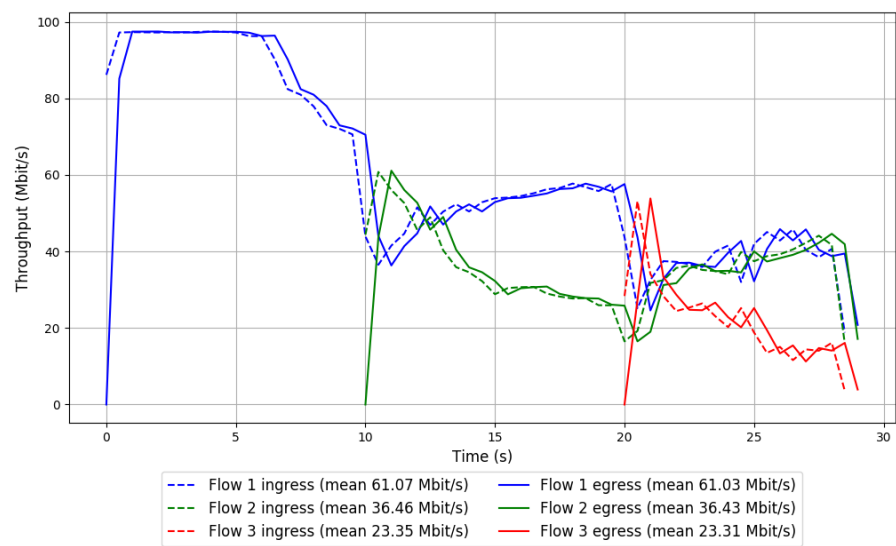


Run 2: Statistics of Indigo-MusesT

Start at: 2019-10-02 23:11:00  
End at: 2019-10-02 23:11:30  
Local clock offset: -5.512 ms  
Remote clock offset: -0.221 ms

# Below is generated by plot.py at 2019-10-03 01:02:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.49 Mbit/s  
95th percentile per-packet one-way delay: 18.043 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 61.03 Mbit/s  
95th percentile per-packet one-way delay: 16.739 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 36.43 Mbit/s  
95th percentile per-packet one-way delay: 18.678 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 23.31 Mbit/s  
95th percentile per-packet one-way delay: 19.851 ms  
Loss rate: 0.00%

Run 2: Report of Indigo-MusesT — Data Link

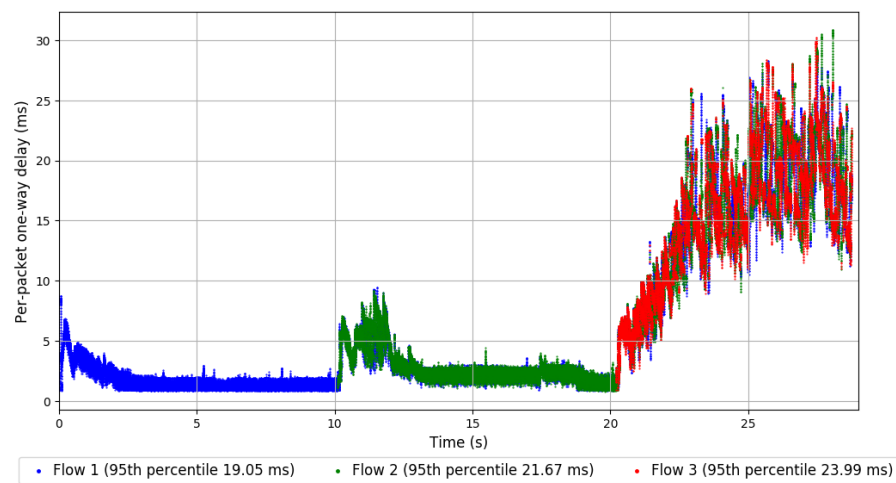
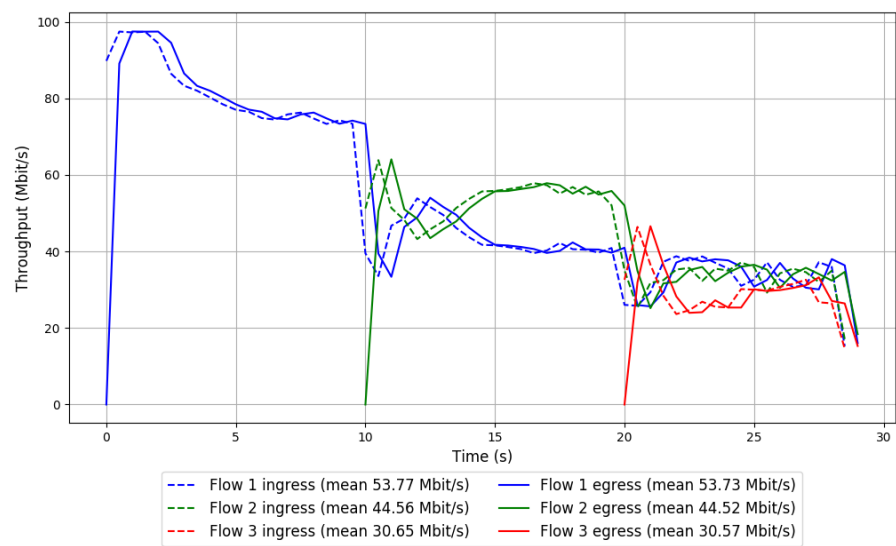


Run 3: Statistics of Indigo-MusesT

Start at: 2019-10-02 23:38:12  
End at: 2019-10-02 23:38:42  
Local clock offset: -6.448 ms  
Remote clock offset: -0.249 ms

# Below is generated by plot.py at 2019-10-03 01:02:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.68 Mbit/s  
95th percentile per-packet one-way delay: 21.220 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 53.73 Mbit/s  
95th percentile per-packet one-way delay: 19.048 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 44.52 Mbit/s  
95th percentile per-packet one-way delay: 21.669 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 30.57 Mbit/s  
95th percentile per-packet one-way delay: 23.991 ms  
Loss rate: 0.00%

Run 3: Report of Indigo-MusesT — Data Link



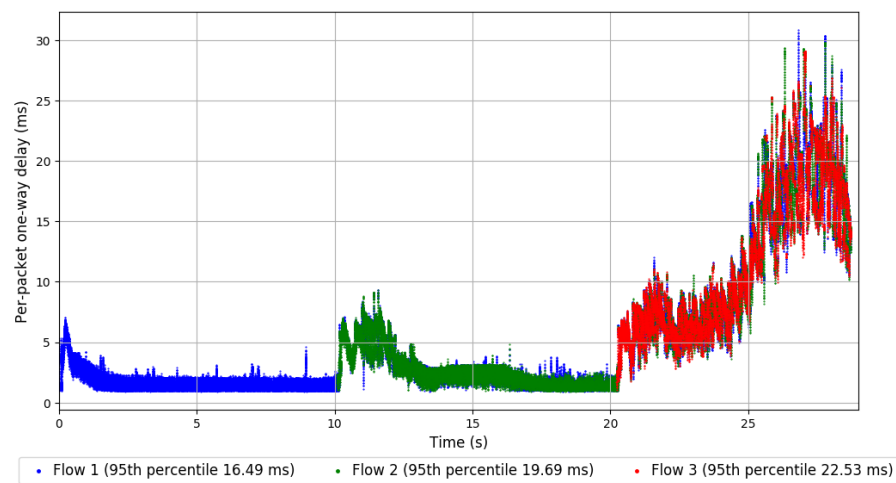
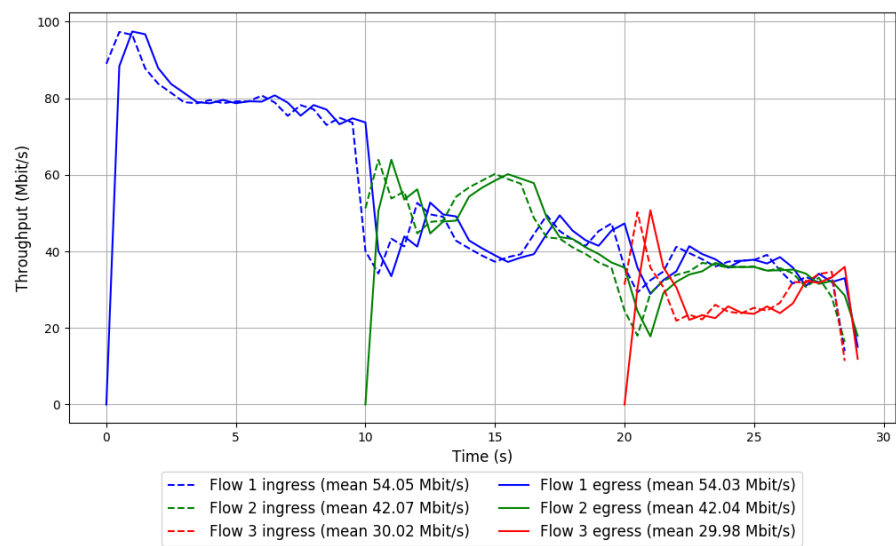


Run 4: Statistics of Indigo-MusesT

Start at: 2019-10-03 00:05:25  
End at: 2019-10-03 00:05:55  
Local clock offset: -7.079 ms  
Remote clock offset: -0.126 ms

# Below is generated by plot.py at 2019-10-03 01:02:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.17 Mbit/s  
95th percentile per-packet one-way delay: 19.192 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 54.03 Mbit/s  
95th percentile per-packet one-way delay: 16.492 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 42.04 Mbit/s  
95th percentile per-packet one-way delay: 19.692 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 29.98 Mbit/s  
95th percentile per-packet one-way delay: 22.526 ms  
Loss rate: 0.00%

Run 4: Report of Indigo-MusesT — Data Link

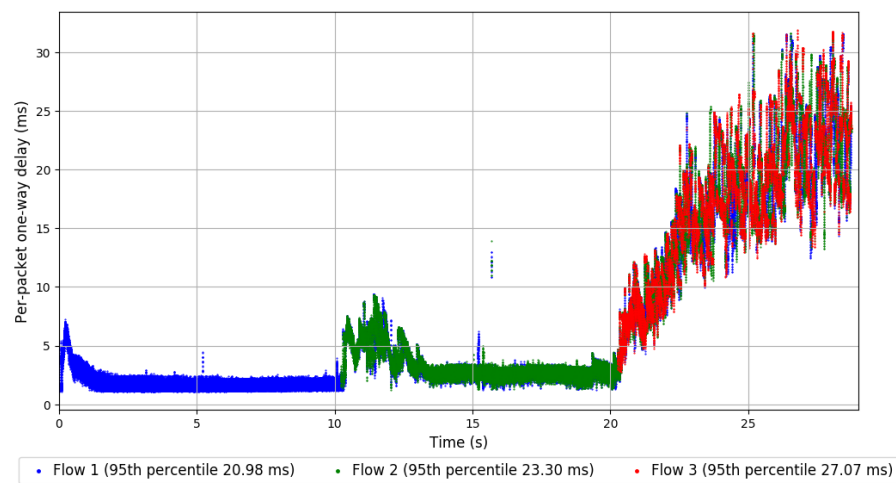
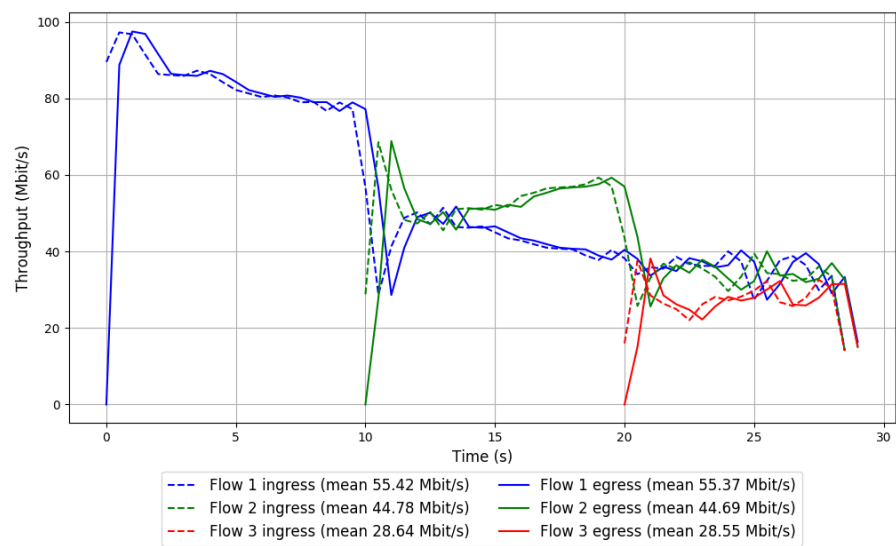


Run 5: Statistics of Indigo-MusesT

Start at: 2019-10-03 00:32:40  
End at: 2019-10-03 00:33:10  
Local clock offset: 0.129 ms  
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2019-10-03 01:02:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.56 Mbit/s  
95th percentile per-packet one-way delay: 23.357 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 55.37 Mbit/s  
95th percentile per-packet one-way delay: 20.976 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 44.69 Mbit/s  
95th percentile per-packet one-way delay: 23.299 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 28.55 Mbit/s  
95th percentile per-packet one-way delay: 27.069 ms  
Loss rate: 0.06%

Run 5: Report of Indigo-MusesT — Data Link

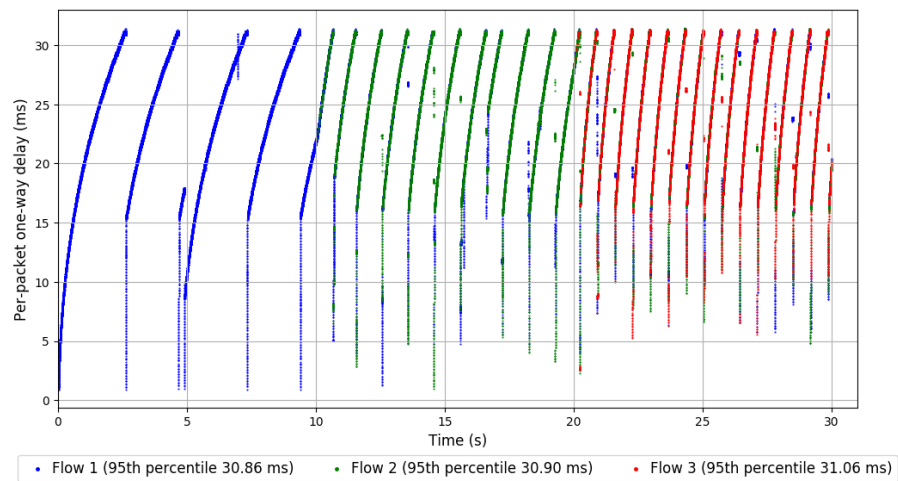
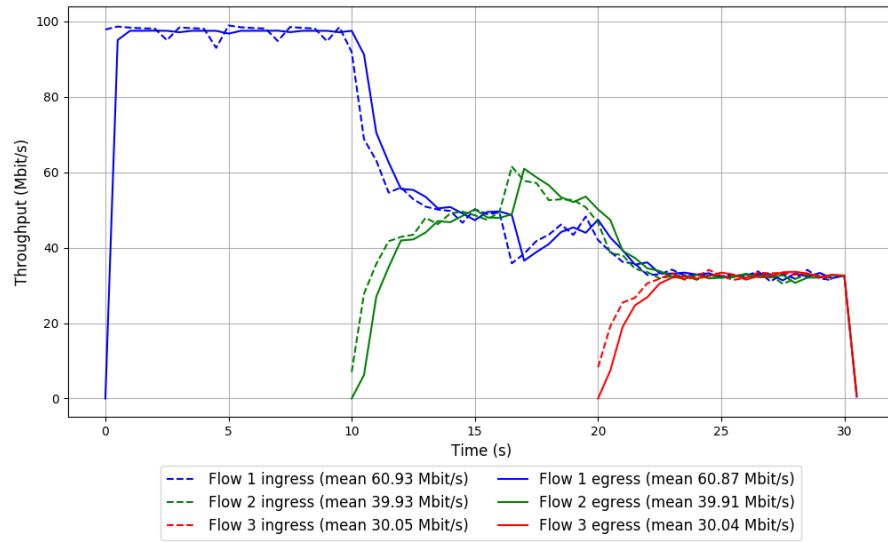


```
Run 1: Statistics of LEDBAT

Start at: 2019-10-02 22:41:27
End at: 2019-10-02 22:41:57
Local clock offset: -5.593 ms
Remote clock offset: -0.229 ms

# Below is generated by plot.py at 2019-10-03 01:02:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.39 Mbit/s
95th percentile per-packet one-way delay: 30.886 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 60.87 Mbit/s
95th percentile per-packet one-way delay: 30.863 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 39.91 Mbit/s
95th percentile per-packet one-way delay: 30.901 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 30.04 Mbit/s
95th percentile per-packet one-way delay: 31.061 ms
Loss rate: 0.11%
```

# Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-10-02 23:08:44

End at: 2019-10-02 23:09:14

Local clock offset: -5.44 ms

Remote clock offset: -0.19 ms

# Below is generated by plot.py at 2019-10-03 01:03:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.39 Mbit/s

95th percentile per-packet one-way delay: 30.935 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 63.01 Mbit/s

95th percentile per-packet one-way delay: 30.915 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 36.11 Mbit/s

95th percentile per-packet one-way delay: 30.957 ms

Loss rate: 0.08%

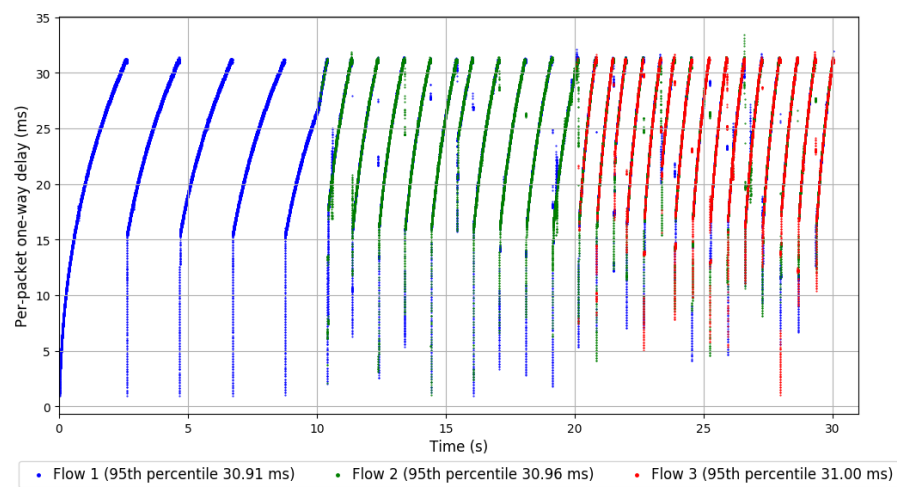
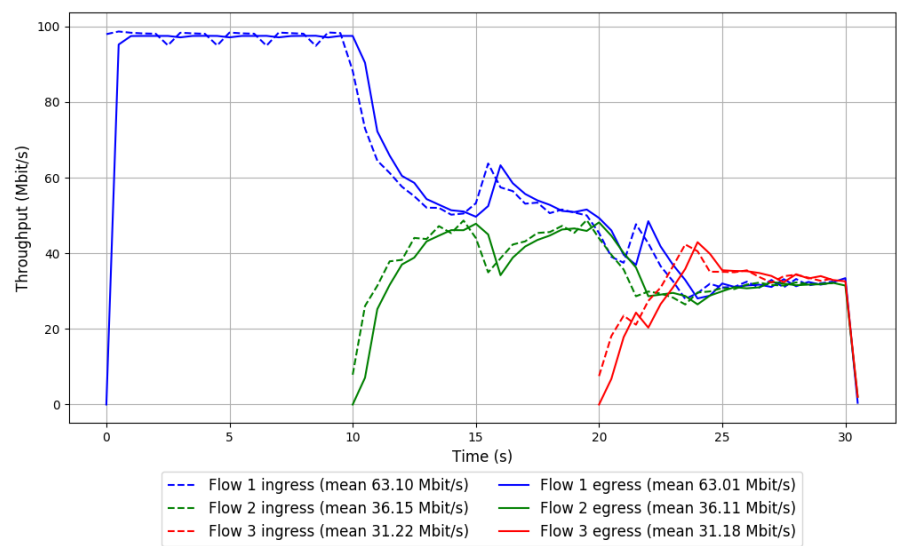
-- Flow 3:

Average throughput: 31.18 Mbit/s

95th percentile per-packet one-way delay: 30.995 ms

Loss rate: 0.10%

Run 2: Report of LEDBAT — Data Link



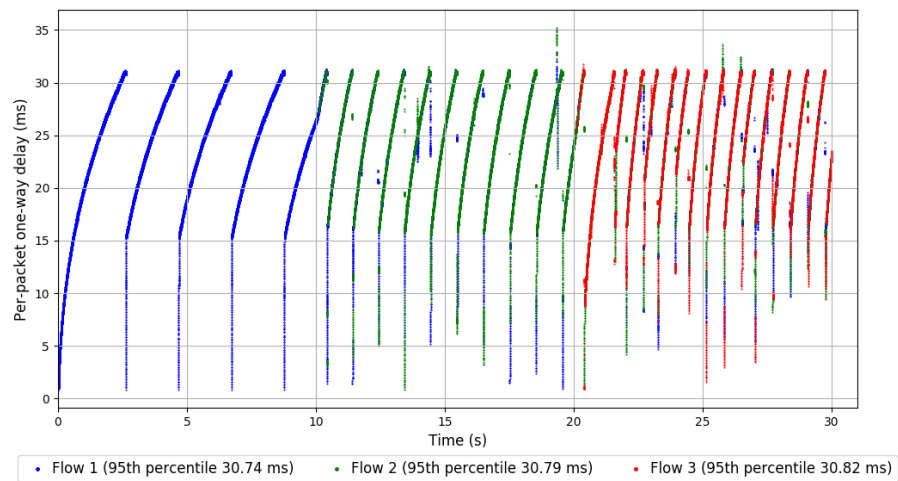
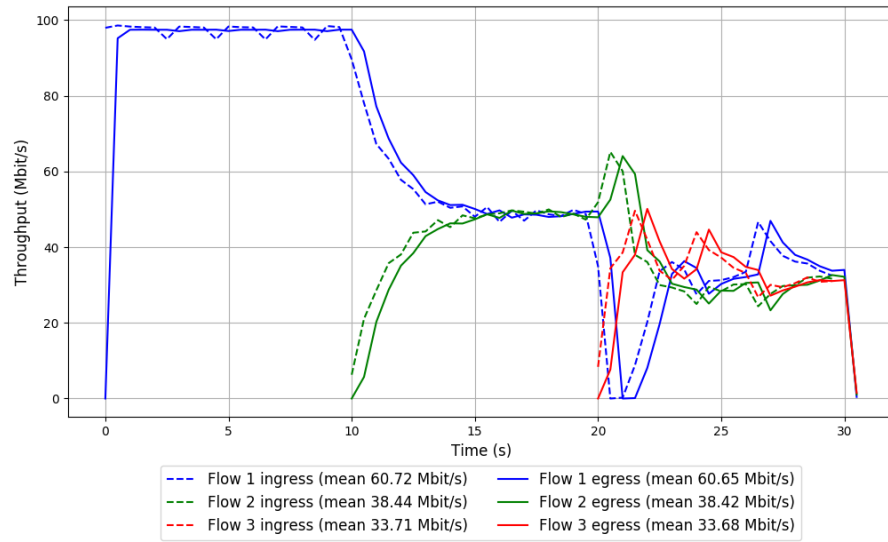


Run 3: Statistics of LEDBAT

Start at: 2019-10-02 23:35:56  
End at: 2019-10-02 23:36:26  
Local clock offset: -6.331 ms  
Remote clock offset: -0.314 ms

# Below is generated by plot.py at 2019-10-03 01:03:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.40 Mbit/s  
95th percentile per-packet one-way delay: 30.766 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 60.65 Mbit/s  
95th percentile per-packet one-way delay: 30.739 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 38.42 Mbit/s  
95th percentile per-packet one-way delay: 30.787 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 33.68 Mbit/s  
95th percentile per-packet one-way delay: 30.822 ms  
Loss rate: 0.10%

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

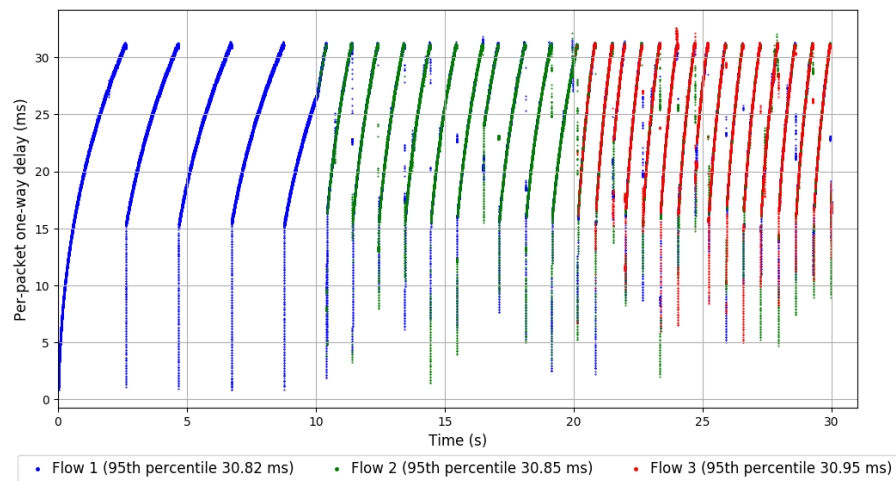
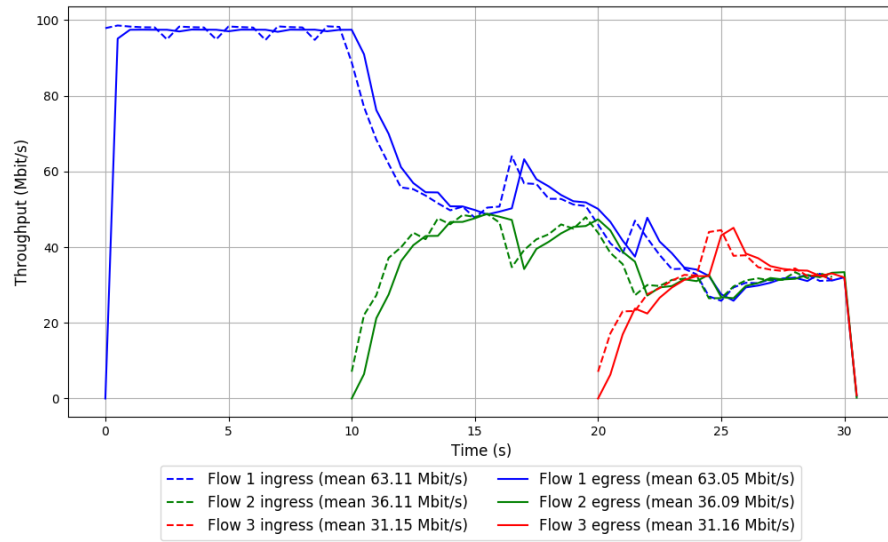


Run 4: Statistics of LEDBAT

Start at: 2019-10-03 00:03:09  
End at: 2019-10-03 00:03:39  
Local clock offset: -7.0 ms  
Remote clock offset: -0.226 ms

# Below is generated by plot.py at 2019-10-03 01:03:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.40 Mbit/s  
95th percentile per-packet one-way delay: 30.837 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 63.05 Mbit/s  
95th percentile per-packet one-way delay: 30.818 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 36.09 Mbit/s  
95th percentile per-packet one-way delay: 30.854 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 31.16 Mbit/s  
95th percentile per-packet one-way delay: 30.947 ms  
Loss rate: 0.10%

# Run 4: Report of LEDBAT — Data Link

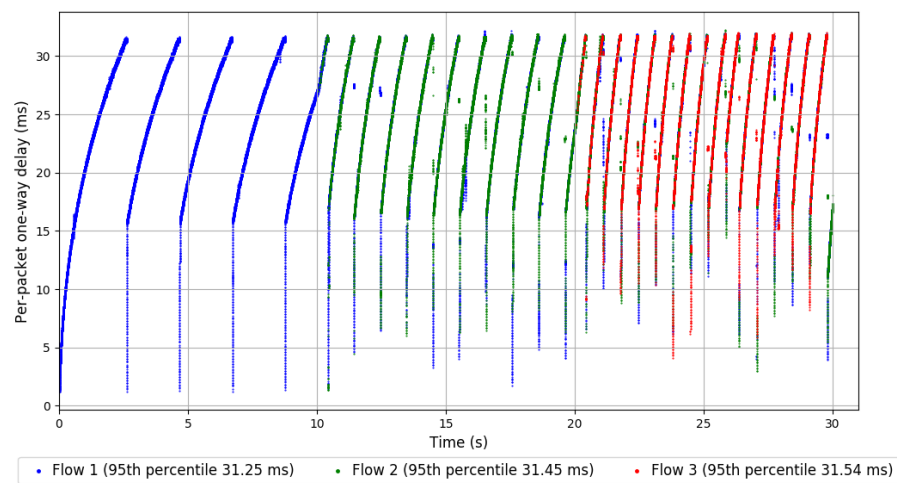
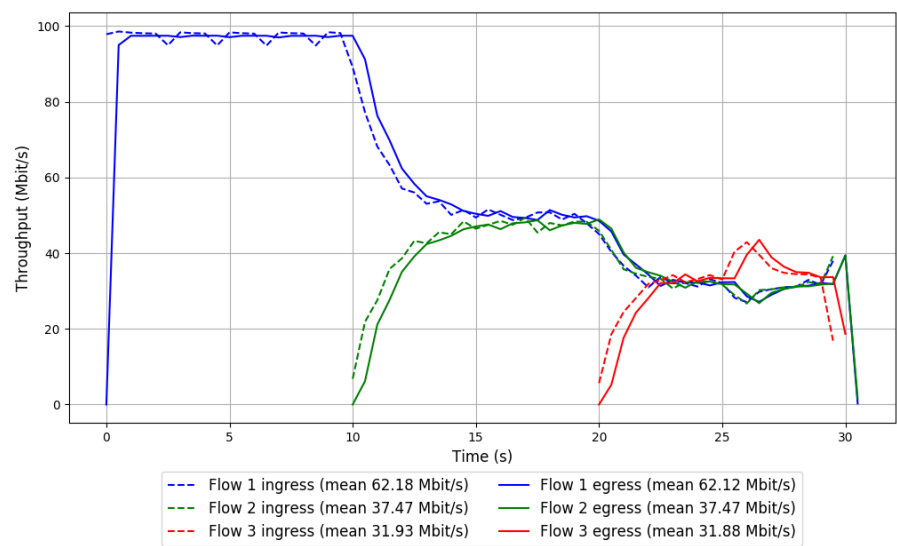


Run 5: Statistics of LEDBAT

Start at: 2019-10-03 00:30:24  
End at: 2019-10-03 00:30:54  
Local clock offset: -1.531 ms  
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2019-10-03 01:03:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.40 Mbit/s  
95th percentile per-packet one-way delay: 31.349 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 62.12 Mbit/s  
95th percentile per-packet one-way delay: 31.250 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 37.47 Mbit/s  
95th percentile per-packet one-way delay: 31.453 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 31.88 Mbit/s  
95th percentile per-packet one-way delay: 31.539 ms  
Loss rate: 0.09%

Run 5: Report of LEDBAT — Data Link

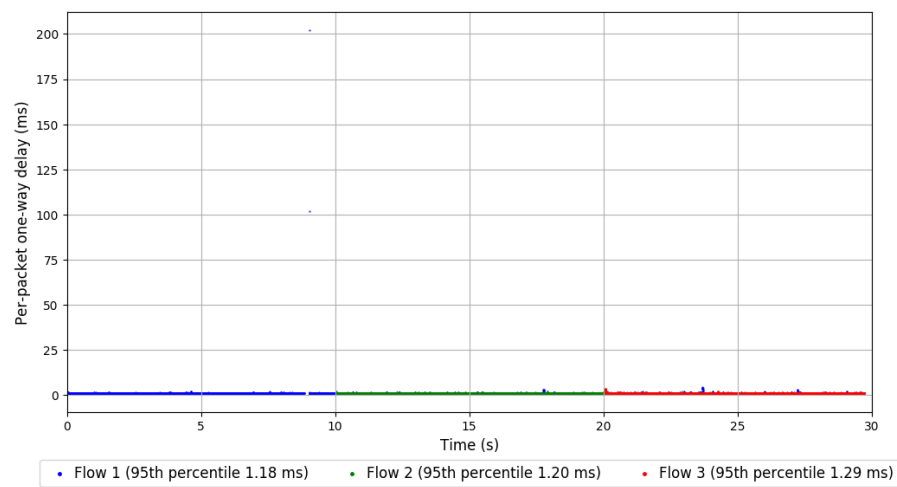
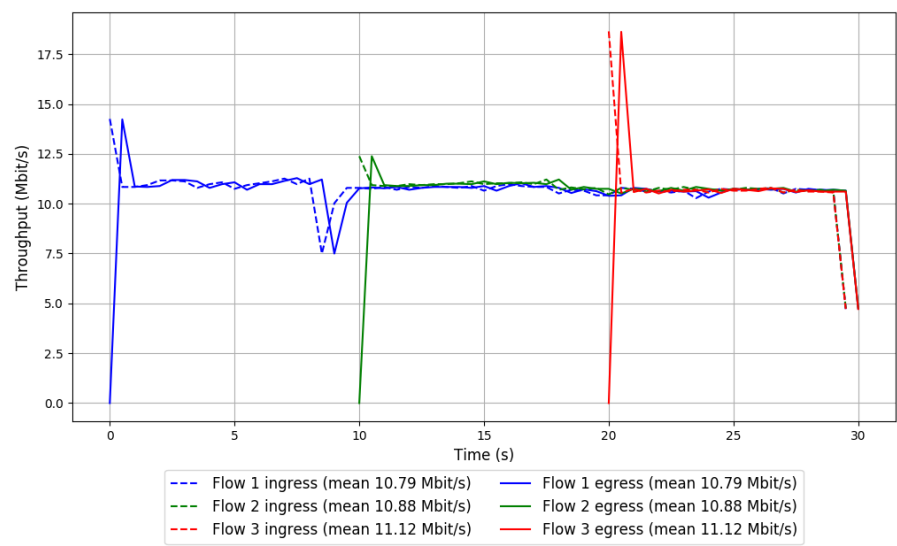


Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-10-02 22:40:21  
End at: 2019-10-02 22:40:51  
Local clock offset: -5.581 ms  
Remote clock offset: -0.305 ms

# Below is generated by plot.py at 2019-10-03 01:03:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 21.61 Mbit/s  
95th percentile per-packet one-way delay: 1.203 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 10.79 Mbit/s  
95th percentile per-packet one-way delay: 1.179 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 10.88 Mbit/s  
95th percentile per-packet one-way delay: 1.200 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 11.12 Mbit/s  
95th percentile per-packet one-way delay: 1.289 ms  
Loss rate: 0.00%

Run 1: Report of Muses\_DecisionTree — Data Link



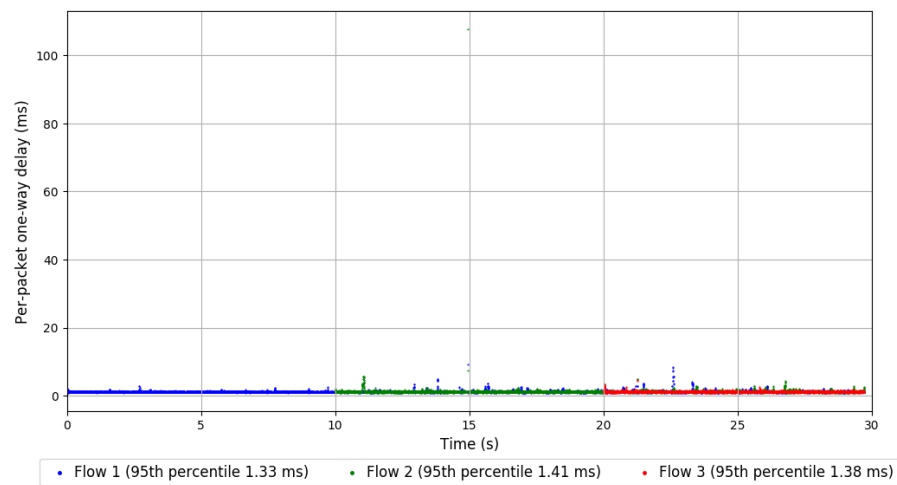
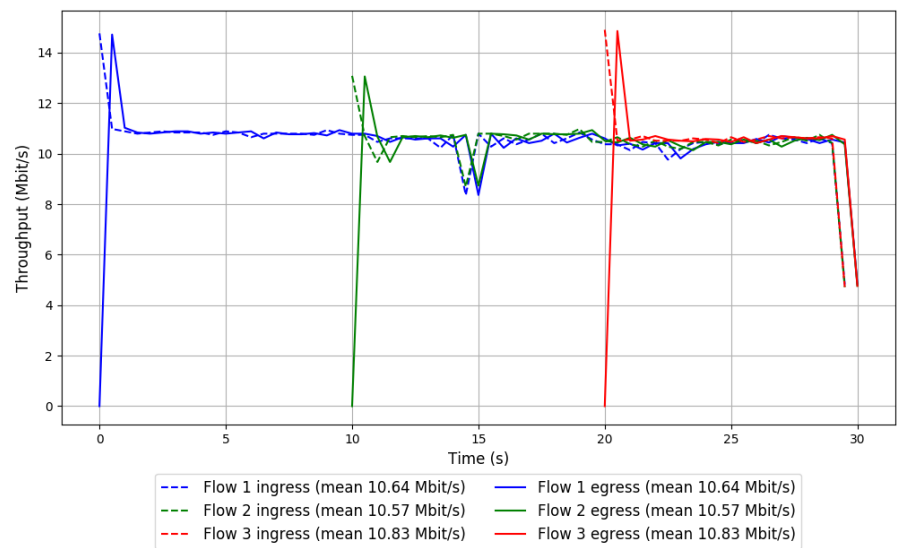


Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-10-02 23:07:37  
End at: 2019-10-02 23:08:07  
Local clock offset: -5.45 ms  
Remote clock offset: -0.199 ms

# Below is generated by plot.py at 2019-10-03 01:03:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 21.19 Mbit/s  
95th percentile per-packet one-way delay: 1.364 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 10.64 Mbit/s  
95th percentile per-packet one-way delay: 1.328 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 10.57 Mbit/s  
95th percentile per-packet one-way delay: 1.406 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 10.83 Mbit/s  
95th percentile per-packet one-way delay: 1.382 ms  
Loss rate: 0.00%

Run 2: Report of Muses\_DecisionTree — Data Link

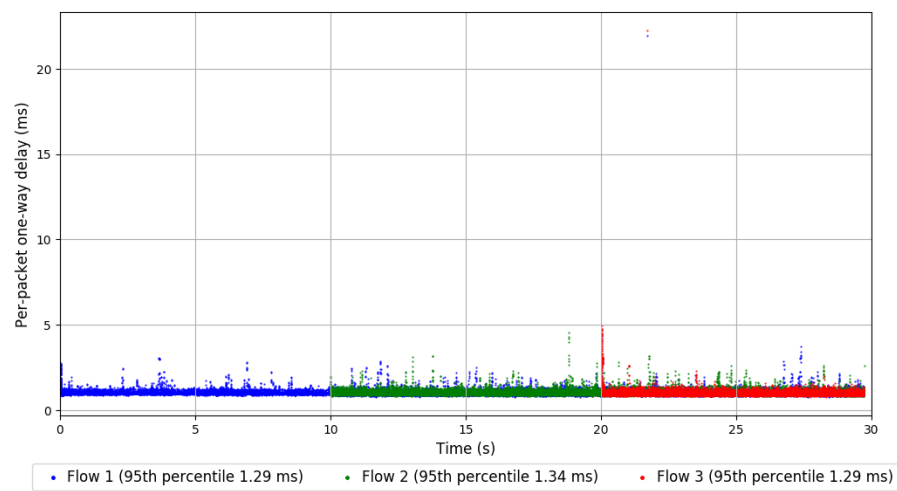
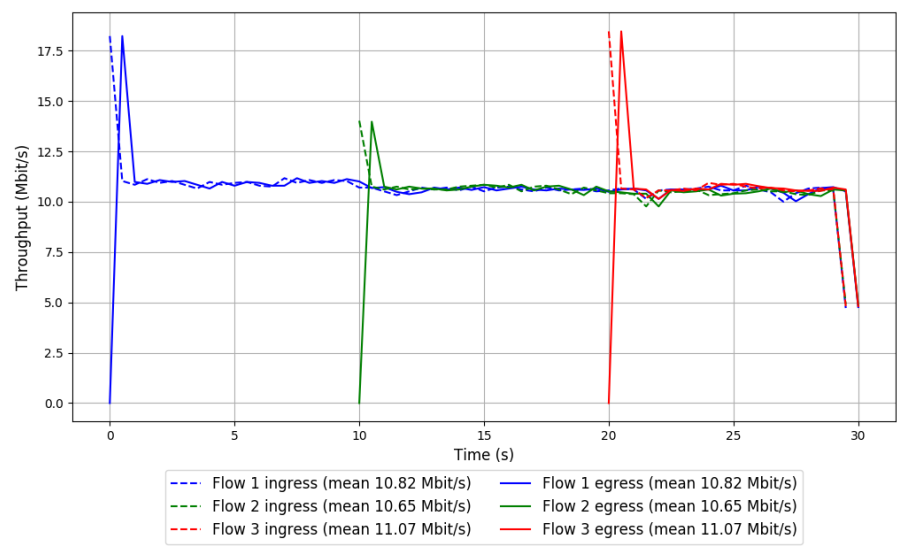


Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-10-02 23:34:50  
End at: 2019-10-02 23:35:20  
Local clock offset: -6.292 ms  
Remote clock offset: -0.253 ms

# Below is generated by plot.py at 2019-10-03 01:03:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 21.49 Mbit/s  
95th percentile per-packet one-way delay: 1.307 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 10.82 Mbit/s  
95th percentile per-packet one-way delay: 1.289 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 10.65 Mbit/s  
95th percentile per-packet one-way delay: 1.340 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 11.07 Mbit/s  
95th percentile per-packet one-way delay: 1.293 ms  
Loss rate: 0.00%

Run 3: Report of Muses\_DecisionTree — Data Link

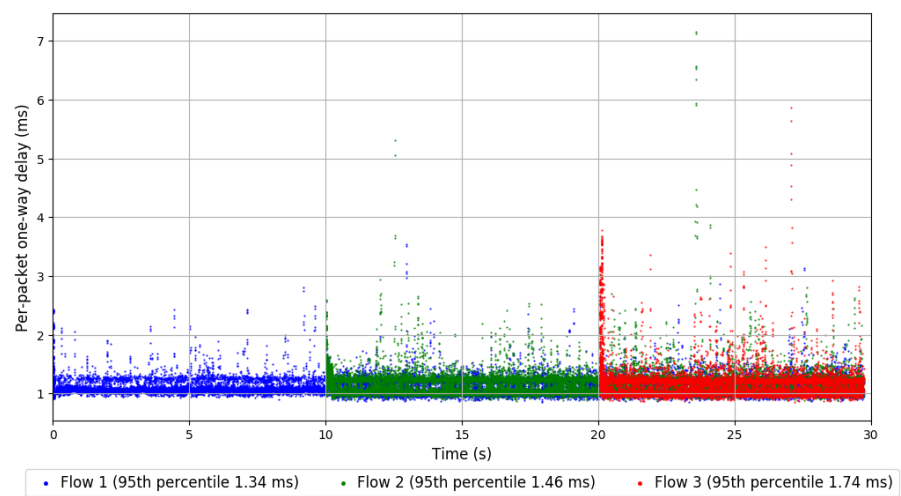
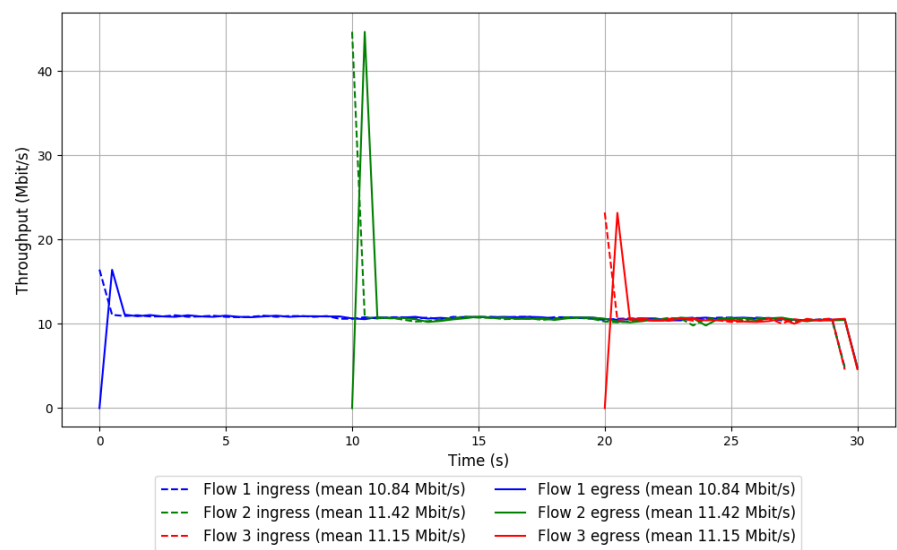


Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-10-03 00:02:03  
End at: 2019-10-03 00:02:33  
Local clock offset: -6.994 ms  
Remote clock offset: -0.157 ms

# Below is generated by plot.py at 2019-10-03 01:03:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 22.04 Mbit/s  
95th percentile per-packet one-way delay: 1.430 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 10.84 Mbit/s  
95th percentile per-packet one-way delay: 1.342 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 11.42 Mbit/s  
95th percentile per-packet one-way delay: 1.458 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 11.15 Mbit/s  
95th percentile per-packet one-way delay: 1.737 ms  
Loss rate: 0.00%

Run 4: Report of Muses\_DecisionTree — Data Link

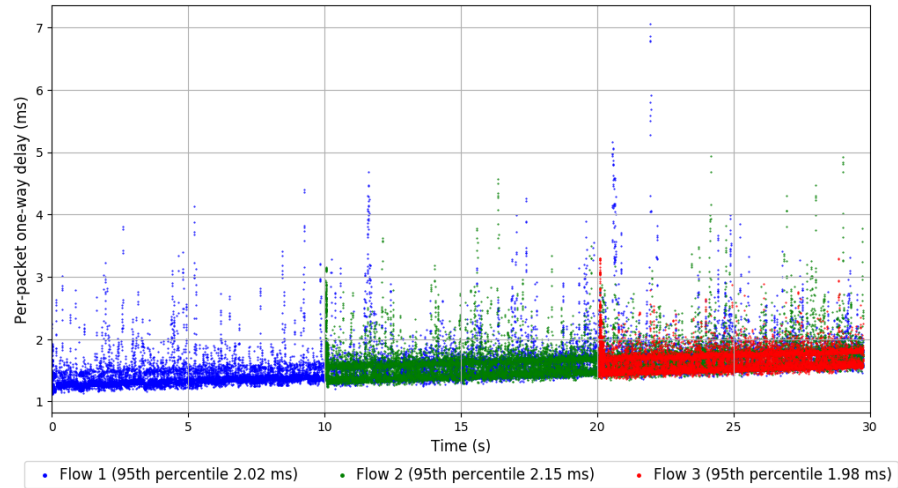
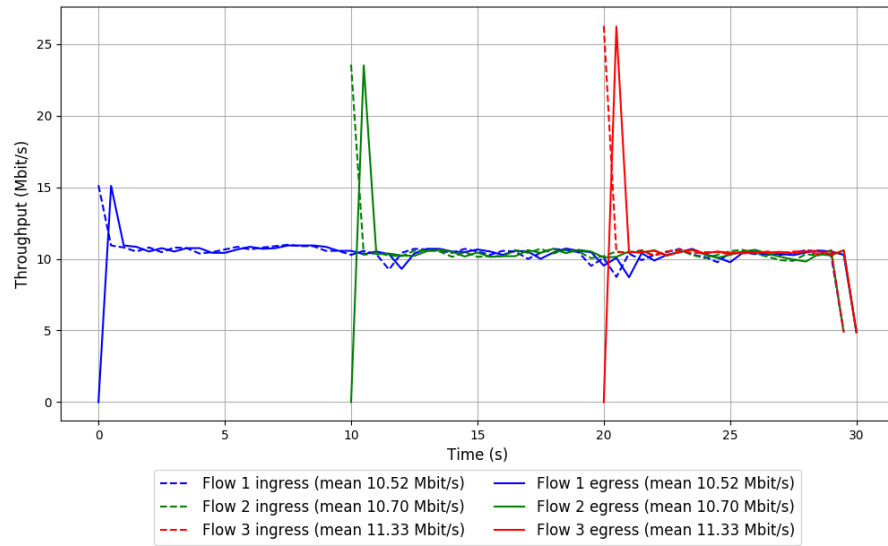


Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-10-03 00:29:18  
End at: 2019-10-03 00:29:48  
Local clock offset: -2.37 ms  
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2019-10-03 01:03:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 21.30 Mbit/s  
95th percentile per-packet one-way delay: 2.048 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 10.52 Mbit/s  
95th percentile per-packet one-way delay: 2.016 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 10.70 Mbit/s  
95th percentile per-packet one-way delay: 2.154 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 11.33 Mbit/s  
95th percentile per-packet one-way delay: 1.978 ms  
Loss rate: 0.00%

# Run 5: Report of Muses\_DecisionTree — Data Link



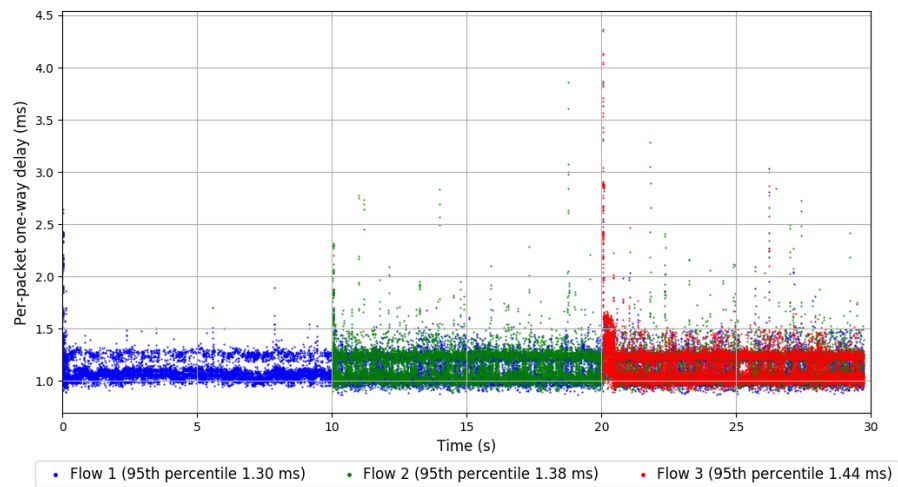
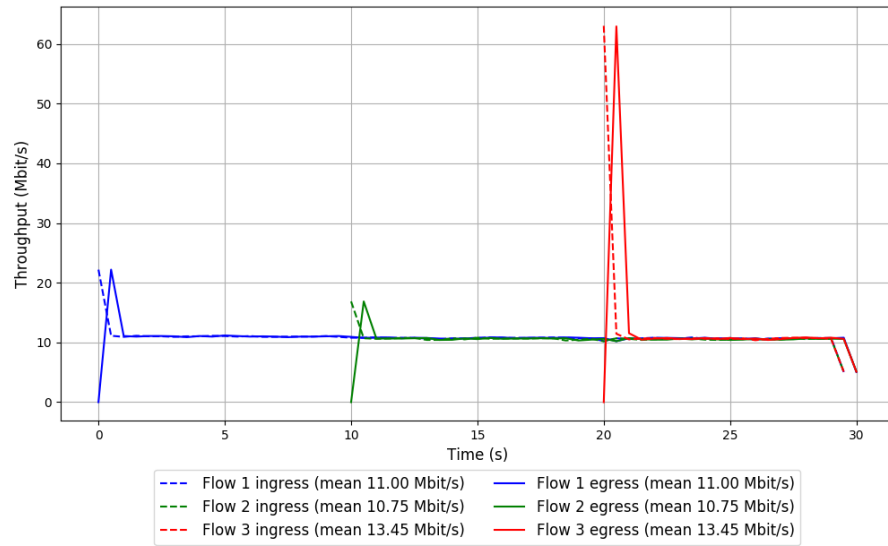


```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-10-02 22:58:36
End at: 2019-10-02 22:59:06
Local clock offset: -5.537 ms
Remote clock offset: -0.18 ms

# Below is generated by plot.py at 2019-10-03 01:03:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.50 Mbit/s
95th percentile per-packet one-way delay: 1.368 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.00 Mbit/s
95th percentile per-packet one-way delay: 1.297 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 10.75 Mbit/s
95th percentile per-packet one-way delay: 1.383 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 13.45 Mbit/s
95th percentile per-packet one-way delay: 1.440 ms
Loss rate: 0.00%
```

# Run 1: Report of Muses\_DecisionTreeH0 — Data Link

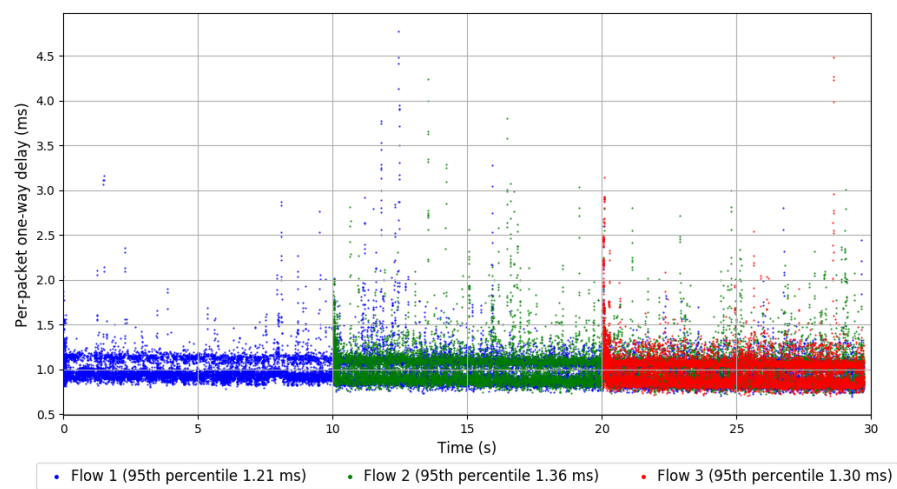
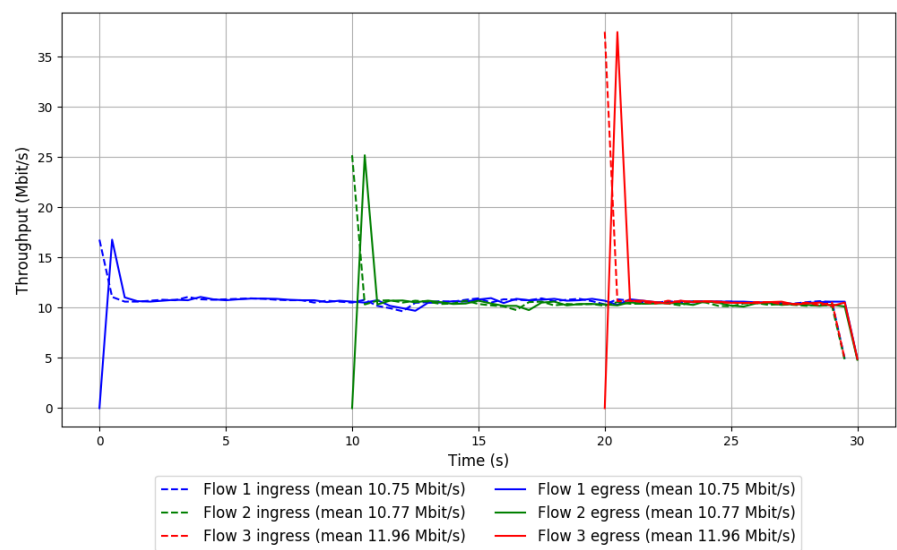


Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-02 23:25:49  
End at: 2019-10-02 23:26:19  
Local clock offset: -5.55 ms  
Remote clock offset: -0.336 ms

# Below is generated by plot.py at 2019-10-03 01:03:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 21.79 Mbit/s  
95th percentile per-packet one-way delay: 1.276 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 10.75 Mbit/s  
95th percentile per-packet one-way delay: 1.205 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 10.77 Mbit/s  
95th percentile per-packet one-way delay: 1.363 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 11.96 Mbit/s  
95th percentile per-packet one-way delay: 1.298 ms  
Loss rate: 0.00%

Run 2: Report of Muses\_DecisionTreeH0 — Data Link

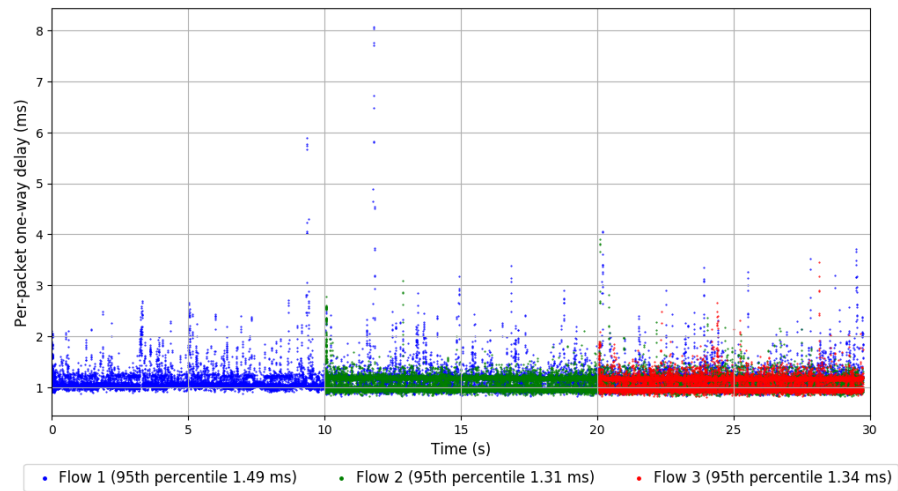
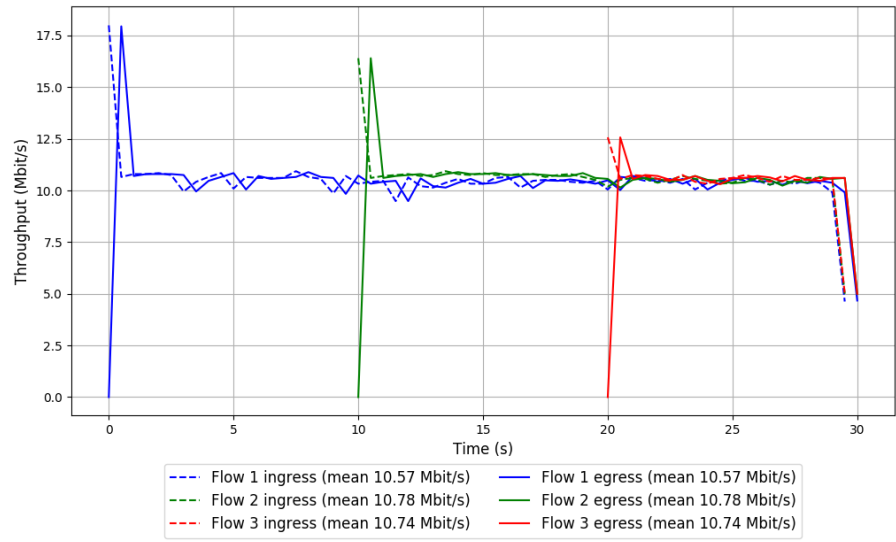


Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-02 23:53:02  
End at: 2019-10-02 23:53:32  
Local clock offset: -6.891 ms  
Remote clock offset: -0.274 ms

# Below is generated by plot.py at 2019-10-03 01:03:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 21.20 Mbit/s  
95th percentile per-packet one-way delay: 1.394 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 10.57 Mbit/s  
95th percentile per-packet one-way delay: 1.494 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 10.78 Mbit/s  
95th percentile per-packet one-way delay: 1.313 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 10.74 Mbit/s  
95th percentile per-packet one-way delay: 1.337 ms  
Loss rate: 0.00%

### Run 3: Report of Muses\_DecisionTreeH0 — Data Link

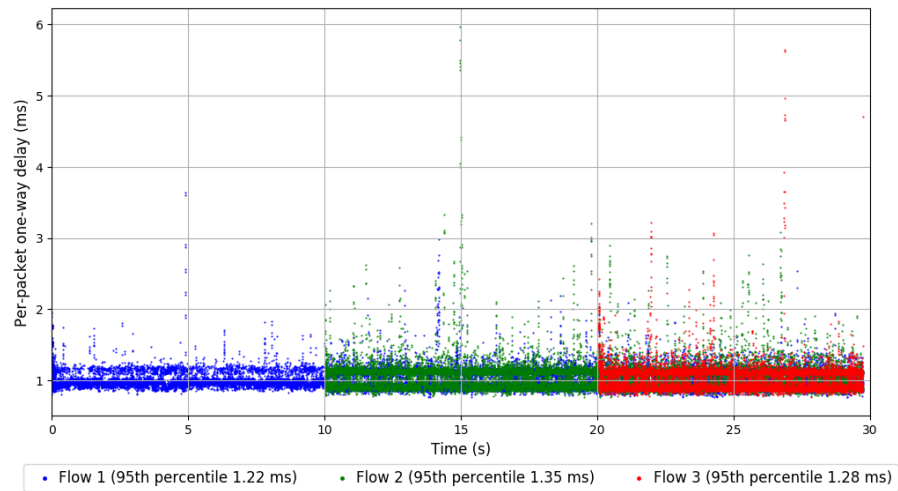
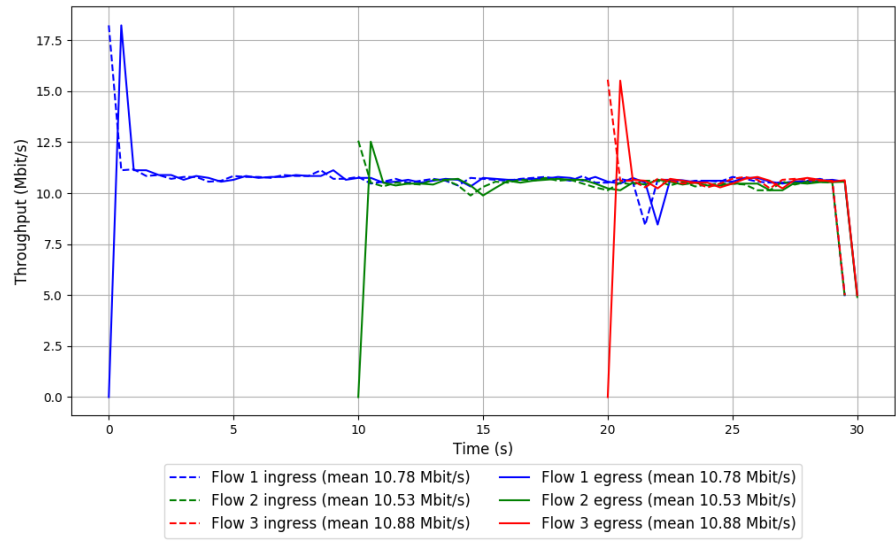


Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-03 00:20:18  
End at: 2019-10-03 00:20:48  
Local clock offset: -7.226 ms  
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2019-10-03 01:03:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 21.30 Mbit/s  
95th percentile per-packet one-way delay: 1.269 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 10.78 Mbit/s  
95th percentile per-packet one-way delay: 1.217 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 10.53 Mbit/s  
95th percentile per-packet one-way delay: 1.349 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 10.88 Mbit/s  
95th percentile per-packet one-way delay: 1.280 ms  
Loss rate: 0.01%

#### Run 4: Report of Muses\_DecisionTreeH0 — Data Link



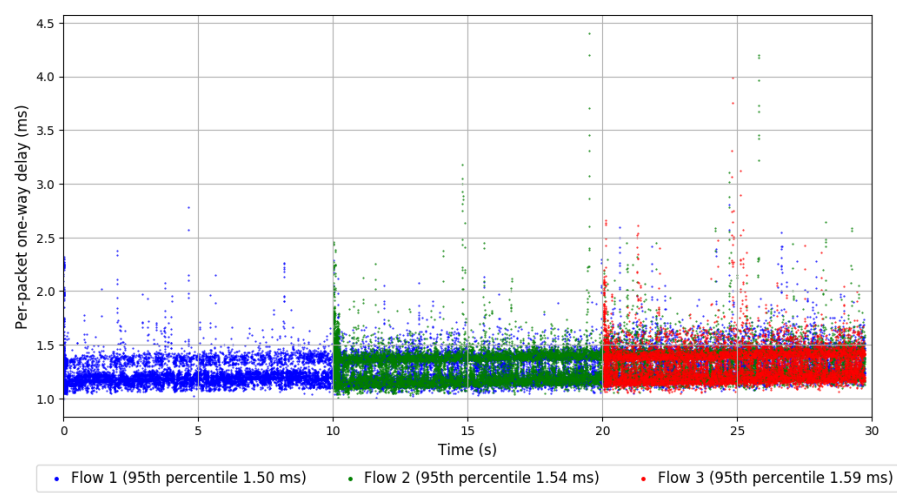
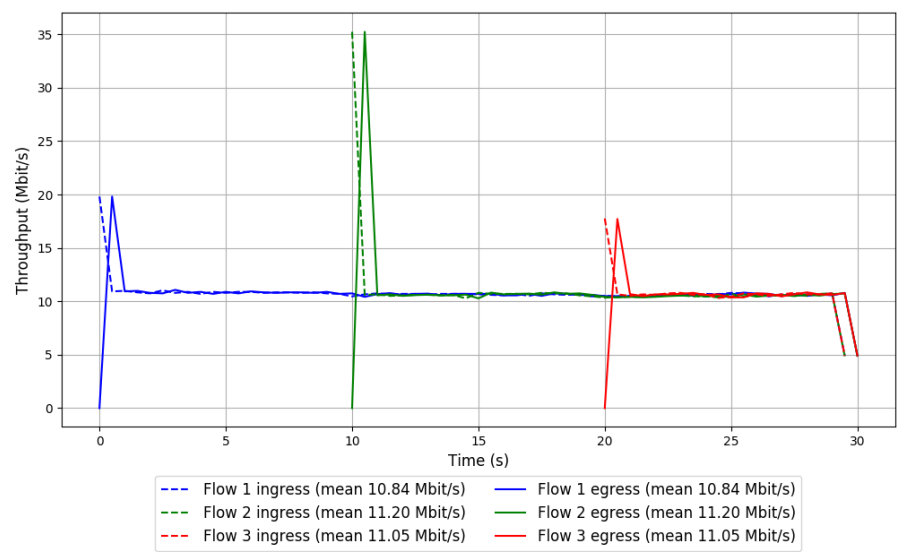


Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-03 00:47:39  
End at: 2019-10-03 00:48:09  
Local clock offset: 5.916 ms  
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2019-10-03 01:03:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 21.87 Mbit/s  
95th percentile per-packet one-way delay: 1.529 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 10.84 Mbit/s  
95th percentile per-packet one-way delay: 1.497 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 11.20 Mbit/s  
95th percentile per-packet one-way delay: 1.542 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 11.05 Mbit/s  
95th percentile per-packet one-way delay: 1.586 ms  
Loss rate: 0.00%

Run 5: Report of Muses\_DecisionTreeH0 — Data Link

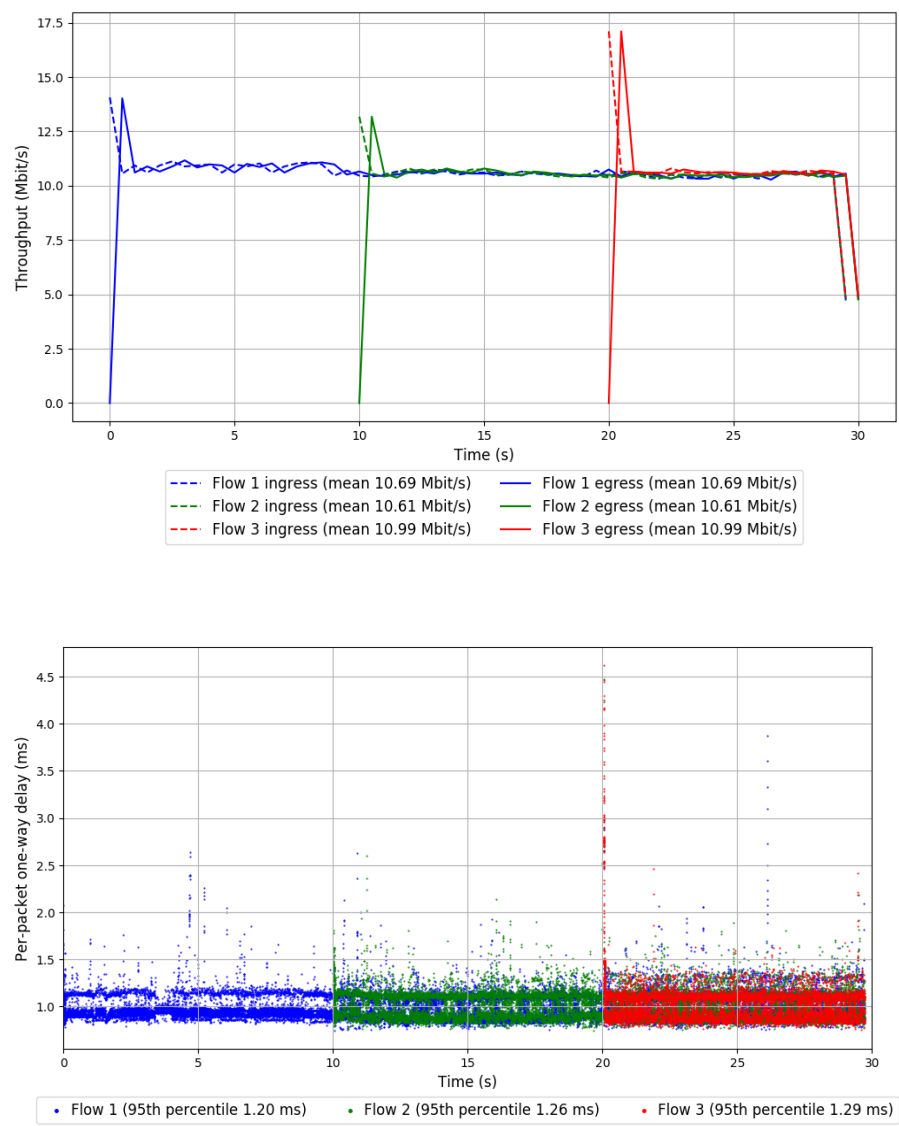


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-10-02 22:44:52
End at: 2019-10-02 22:45:22
Local clock offset: -5.589 ms
Remote clock offset: -0.306 ms

# Below is generated by plot.py at 2019-10-03 01:03:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.30 Mbit/s
95th percentile per-packet one-way delay: 1.240 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.69 Mbit/s
95th percentile per-packet one-way delay: 1.195 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 10.61 Mbit/s
95th percentile per-packet one-way delay: 1.264 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.99 Mbit/s
95th percentile per-packet one-way delay: 1.292 ms
Loss rate: 0.00%
```

Run 1: Report of Muses\_DecisionTreeR0 — Data Link

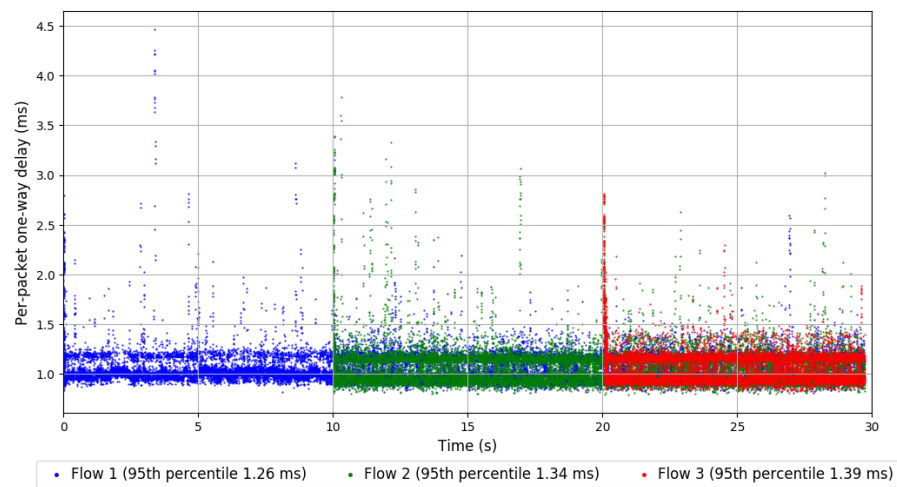
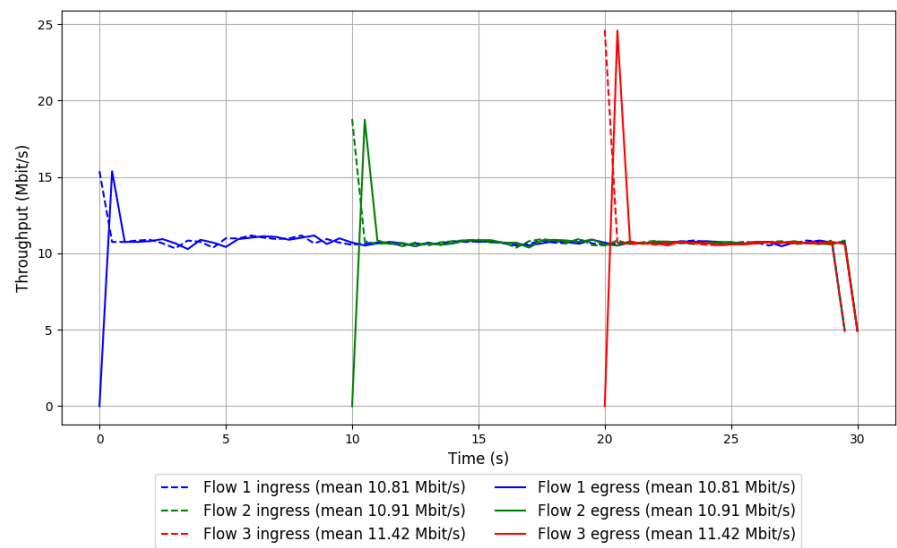


Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-02 23:12:09  
End at: 2019-10-02 23:12:39  
Local clock offset: -5.412 ms  
Remote clock offset: -0.268 ms

# Below is generated by plot.py at 2019-10-03 01:03:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 21.77 Mbit/s  
95th percentile per-packet one-way delay: 1.311 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 10.81 Mbit/s  
95th percentile per-packet one-way delay: 1.260 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 10.91 Mbit/s  
95th percentile per-packet one-way delay: 1.340 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 11.42 Mbit/s  
95th percentile per-packet one-way delay: 1.391 ms  
Loss rate: 0.00%

Run 2: Report of Muses\_DecisionTreeR0 — Data Link

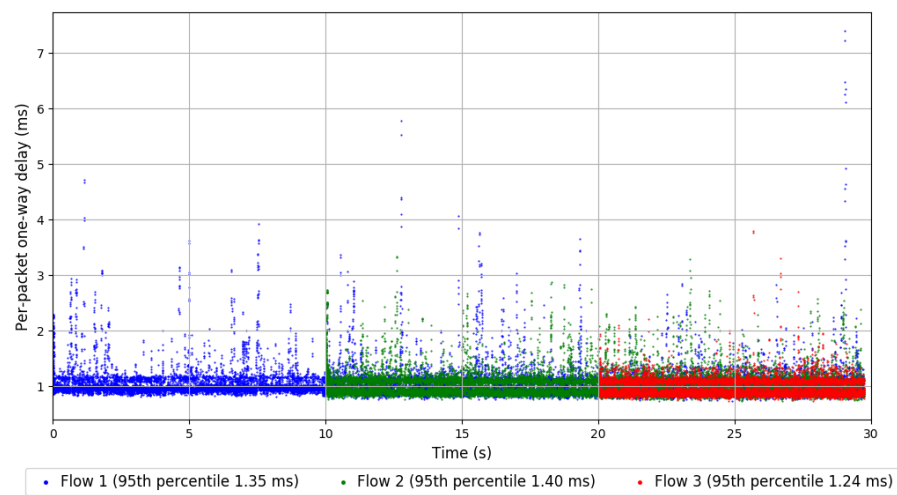
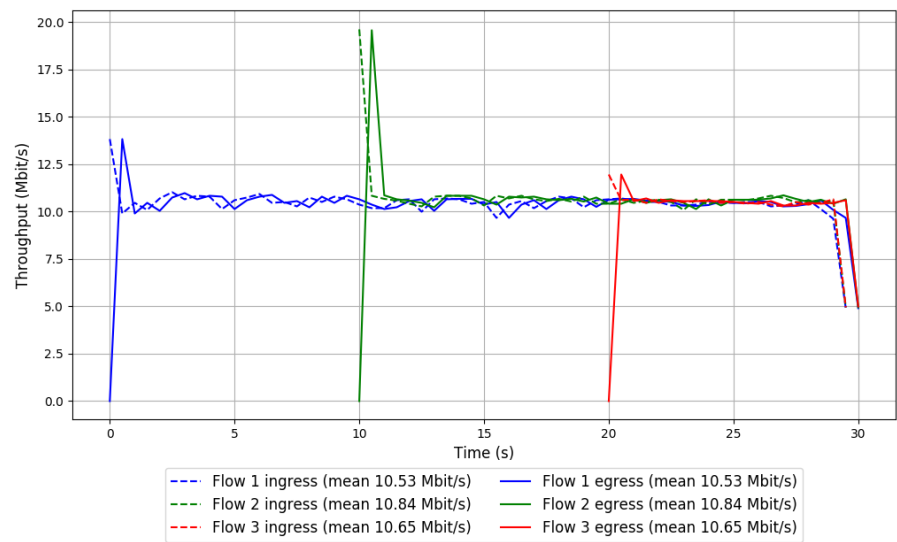


Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-02 23:39:21  
End at: 2019-10-02 23:39:51  
Local clock offset: -6.468 ms  
Remote clock offset: -0.281 ms

# Below is generated by plot.py at 2019-10-03 01:03:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 21.18 Mbit/s  
95th percentile per-packet one-way delay: 1.344 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 10.53 Mbit/s  
95th percentile per-packet one-way delay: 1.354 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 10.84 Mbit/s  
95th percentile per-packet one-way delay: 1.396 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 10.65 Mbit/s  
95th percentile per-packet one-way delay: 1.240 ms  
Loss rate: 0.00%

Run 3: Report of Muses\_DecisionTreeR0 — Data Link



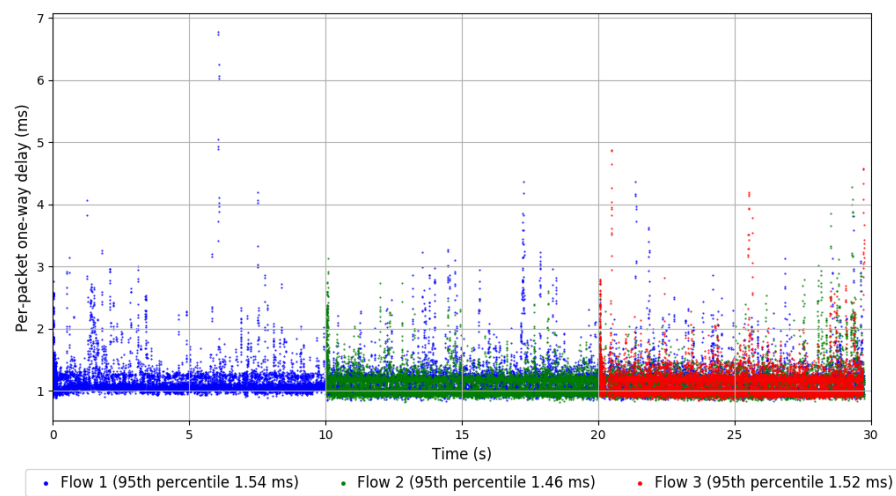
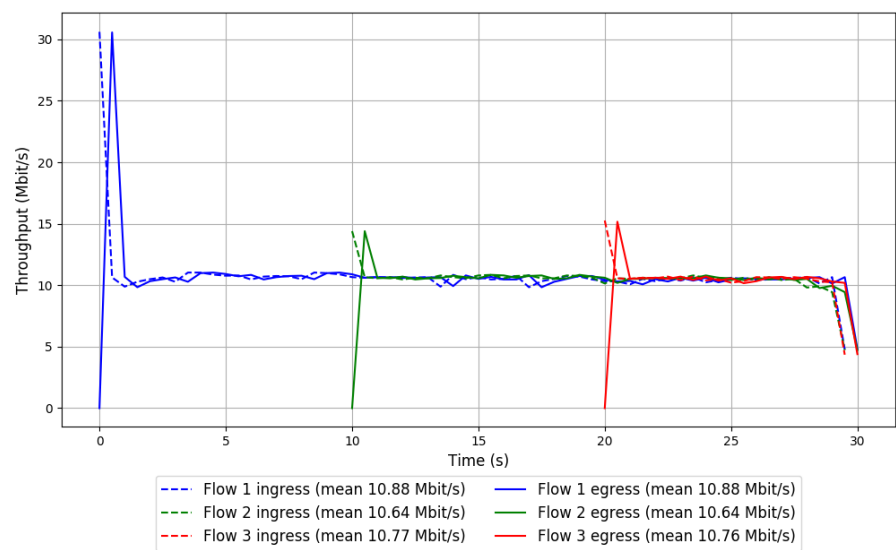


Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-03 00:06:34  
End at: 2019-10-03 00:07:04  
Local clock offset: -7.114 ms  
Remote clock offset: -0.201 ms

# Below is generated by plot.py at 2019-10-03 01:03:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 21.44 Mbit/s  
95th percentile per-packet one-way delay: 1.515 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 10.88 Mbit/s  
95th percentile per-packet one-way delay: 1.544 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 10.64 Mbit/s  
95th percentile per-packet one-way delay: 1.461 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 10.76 Mbit/s  
95th percentile per-packet one-way delay: 1.522 ms  
Loss rate: 0.03%

Run 4: Report of Muses\_DecisionTreeR0 — Data Link

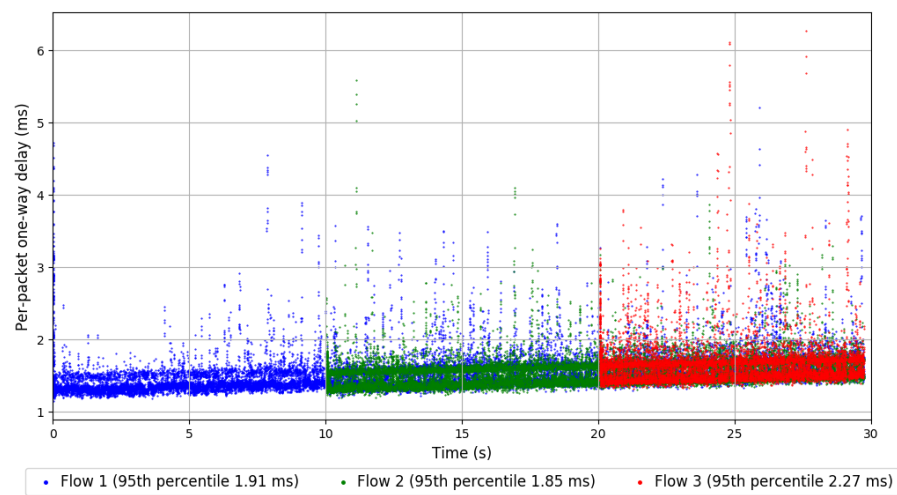
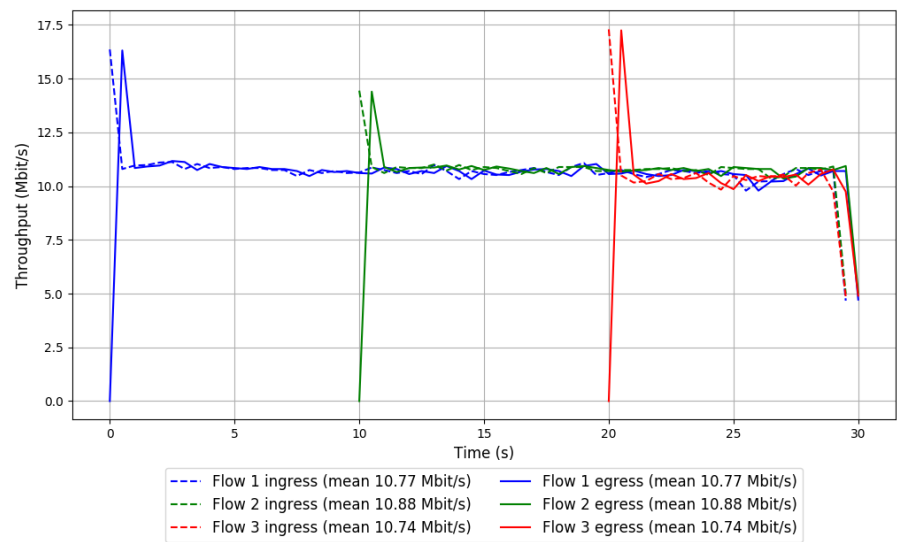


Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-03 00:33:49  
End at: 2019-10-03 00:34:19  
Local clock offset: 0.682 ms  
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2019-10-03 01:03:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 21.48 Mbit/s  
95th percentile per-packet one-way delay: 1.930 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 10.77 Mbit/s  
95th percentile per-packet one-way delay: 1.906 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 10.88 Mbit/s  
95th percentile per-packet one-way delay: 1.852 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 10.74 Mbit/s  
95th percentile per-packet one-way delay: 2.271 ms  
Loss rate: 0.00%

Run 5: Report of Muses\_DecisionTreeR0 — Data Link

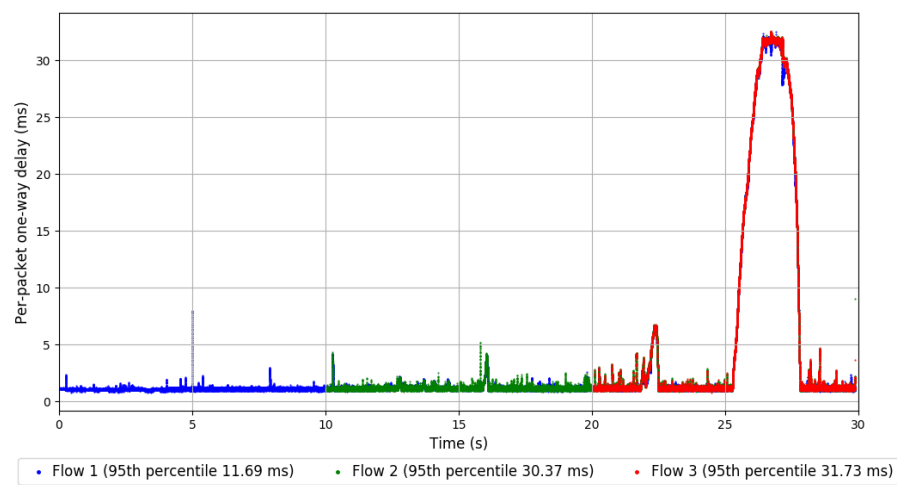
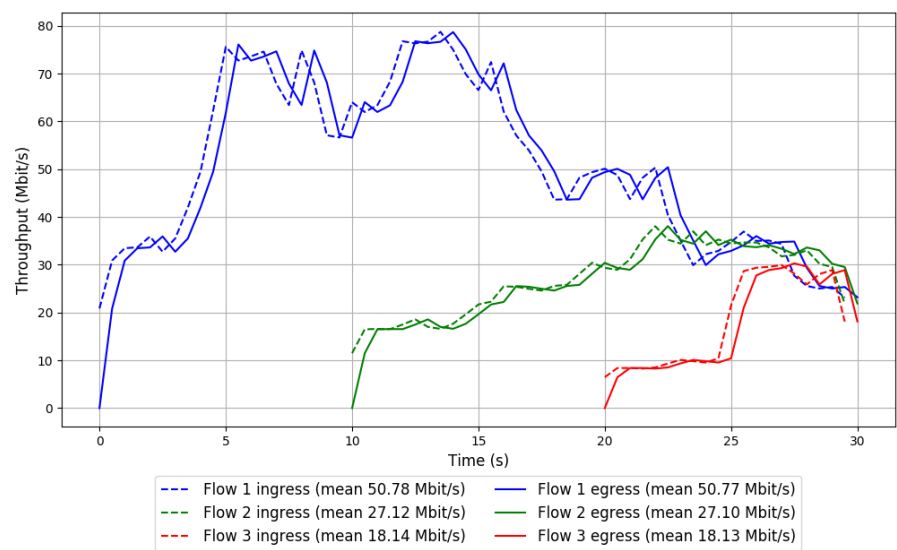


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-10-02 22:55:10
End at: 2019-10-02 22:55:40
Local clock offset: -5.642 ms
Remote clock offset: -0.216 ms

# Below is generated by plot.py at 2019-10-03 01:04:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.76 Mbit/s
95th percentile per-packet one-way delay: 28.773 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 50.77 Mbit/s
95th percentile per-packet one-way delay: 11.690 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 27.10 Mbit/s
95th percentile per-packet one-way delay: 30.368 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 18.13 Mbit/s
95th percentile per-packet one-way delay: 31.734 ms
Loss rate: 0.08%
```

Run 1: Report of PCC-Allegro — Data Link

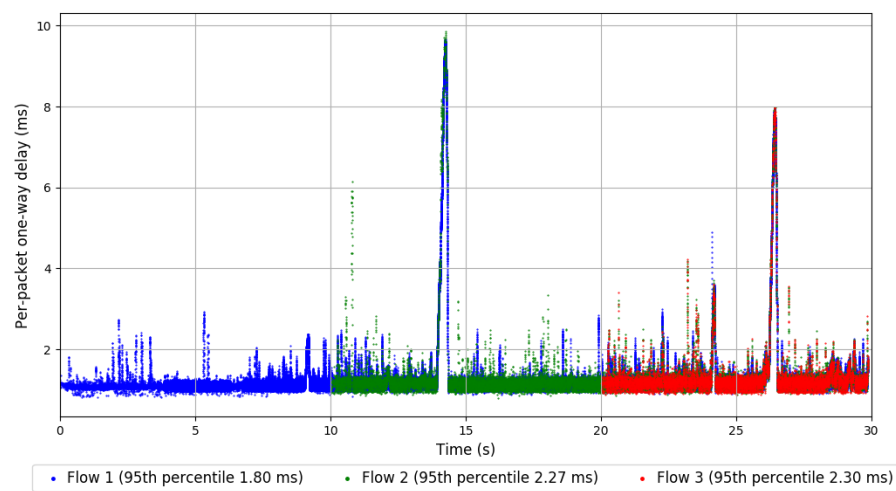
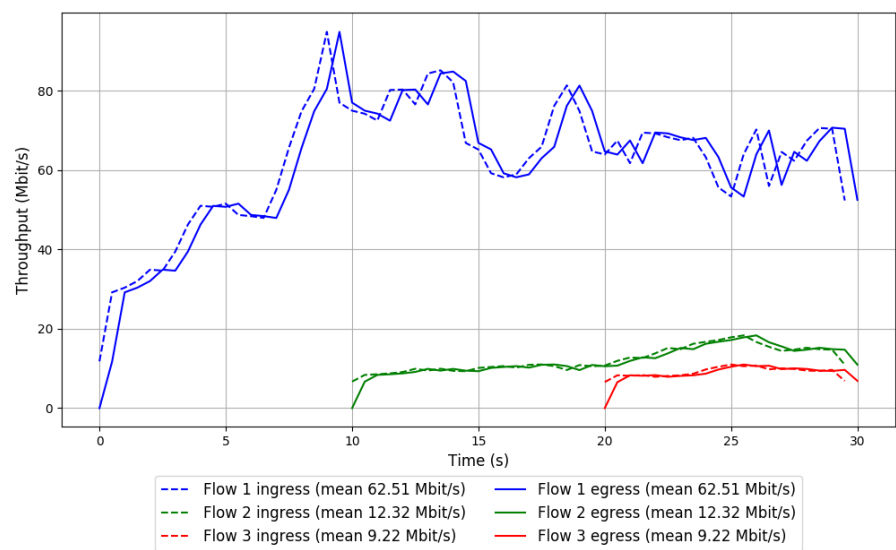


Run 2: Statistics of PCC-Allegro

Start at: 2019-10-02 23:22:23  
End at: 2019-10-02 23:22:53  
Local clock offset: -5.446 ms  
Remote clock offset: -0.222 ms

# Below is generated by plot.py at 2019-10-03 01:04:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 73.75 Mbit/s  
95th percentile per-packet one-way delay: 1.867 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 62.51 Mbit/s  
95th percentile per-packet one-way delay: 1.797 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 12.32 Mbit/s  
95th percentile per-packet one-way delay: 2.268 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 9.22 Mbit/s  
95th percentile per-packet one-way delay: 2.302 ms  
Loss rate: 0.00%

Run 2: Report of PCC-Allegro — Data Link



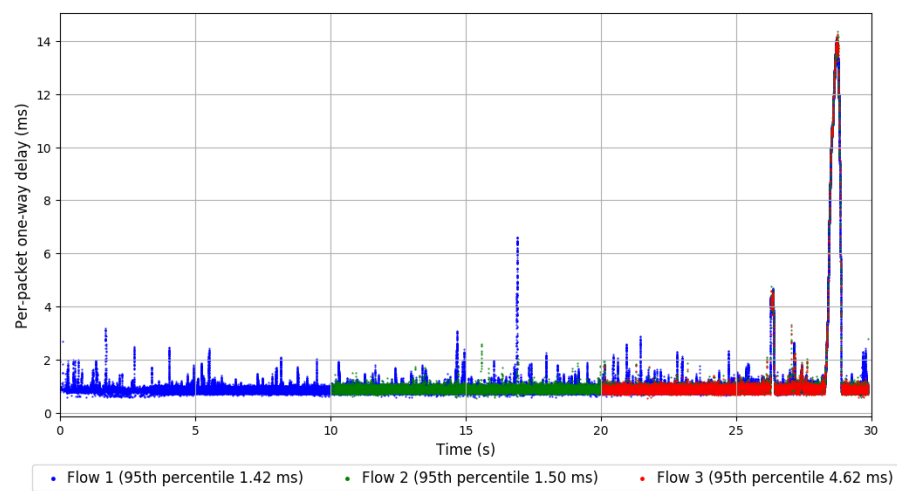
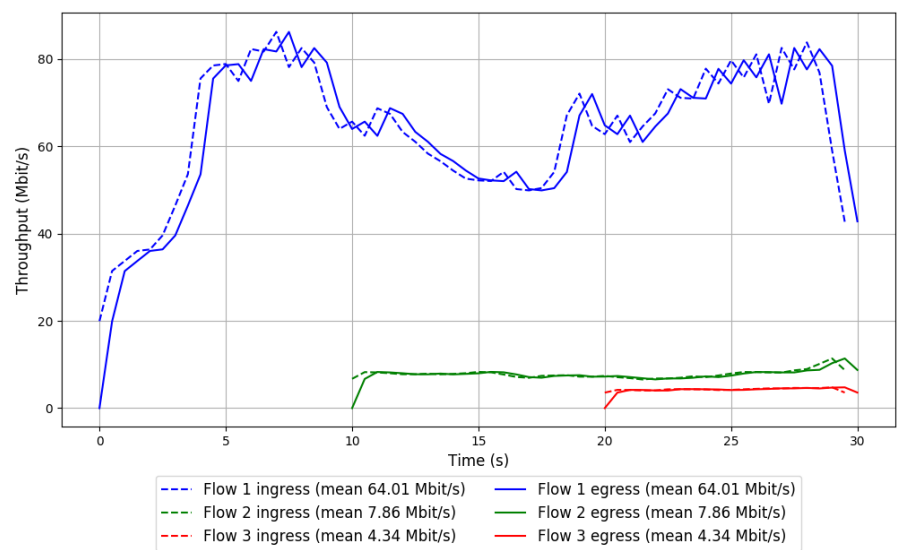


Run 3: Statistics of PCC-Allegro

Start at: 2019-10-02 23:49:36  
End at: 2019-10-02 23:50:06  
Local clock offset: -6.776 ms  
Remote clock offset: -0.345 ms

# Below is generated by plot.py at 2019-10-03 01:04:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 70.67 Mbit/s  
95th percentile per-packet one-way delay: 1.449 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 64.01 Mbit/s  
95th percentile per-packet one-way delay: 1.420 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 7.86 Mbit/s  
95th percentile per-packet one-way delay: 1.503 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 4.34 Mbit/s  
95th percentile per-packet one-way delay: 4.624 ms  
Loss rate: 0.00%

Run 3: Report of PCC-Allegro — Data Link

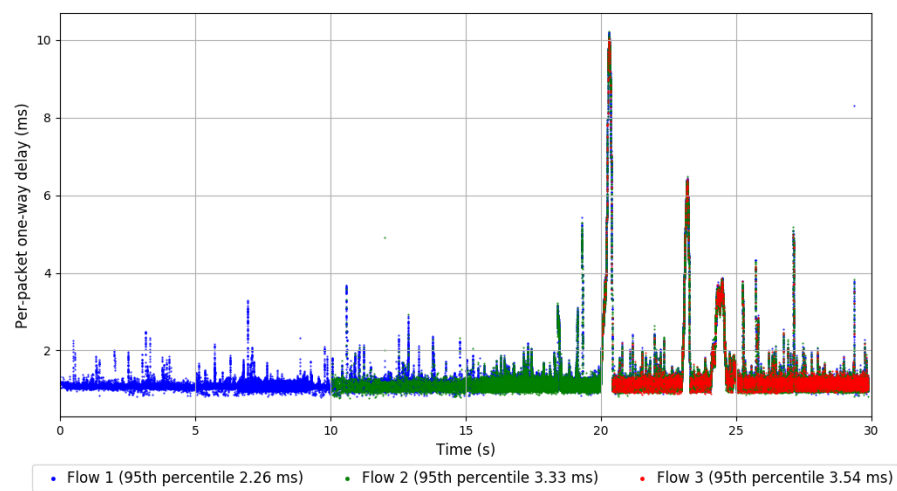
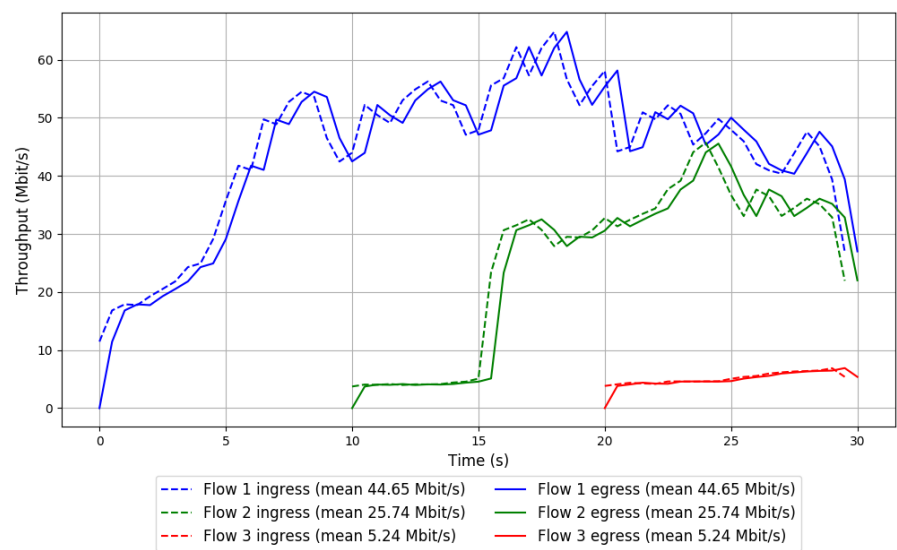


Run 4: Statistics of PCC-Allegro

Start at: 2019-10-03 00:16:52  
End at: 2019-10-03 00:17:22  
Local clock offset: -7.254 ms  
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2019-10-03 01:04:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 63.49 Mbit/s  
95th percentile per-packet one-way delay: 2.759 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 44.65 Mbit/s  
95th percentile per-packet one-way delay: 2.262 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 25.74 Mbit/s  
95th percentile per-packet one-way delay: 3.325 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 5.24 Mbit/s  
95th percentile per-packet one-way delay: 3.539 ms  
Loss rate: 0.00%

Run 4: Report of PCC-Allegro — Data Link

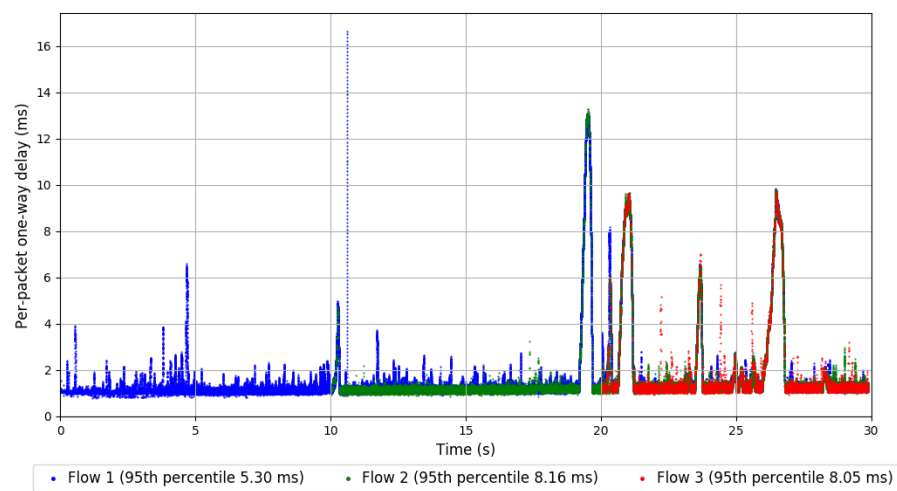
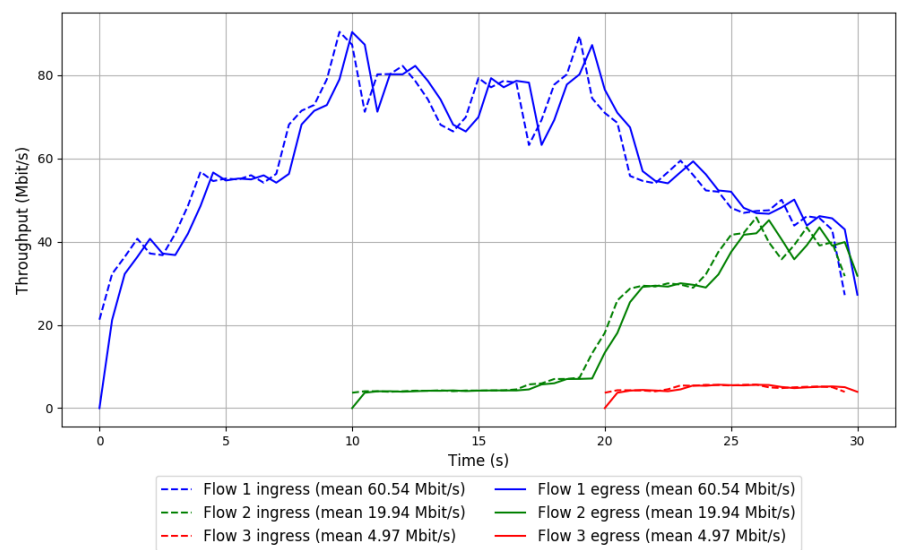


Run 5: Statistics of PCC-Allegro

Start at: 2019-10-03 00:44:13  
End at: 2019-10-03 00:44:43  
Local clock offset: 5.032 ms  
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2019-10-03 01:04:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.44 Mbit/s  
95th percentile per-packet one-way delay: 6.192 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 60.54 Mbit/s  
95th percentile per-packet one-way delay: 5.301 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 19.94 Mbit/s  
95th percentile per-packet one-way delay: 8.165 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 4.97 Mbit/s  
95th percentile per-packet one-way delay: 8.052 ms  
Loss rate: 0.00%

Run 5: Report of PCC-Allegro — Data Link

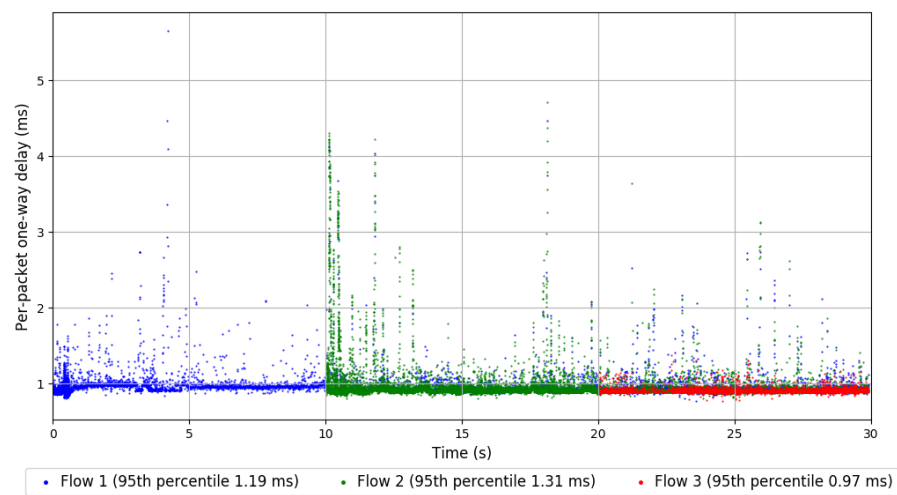
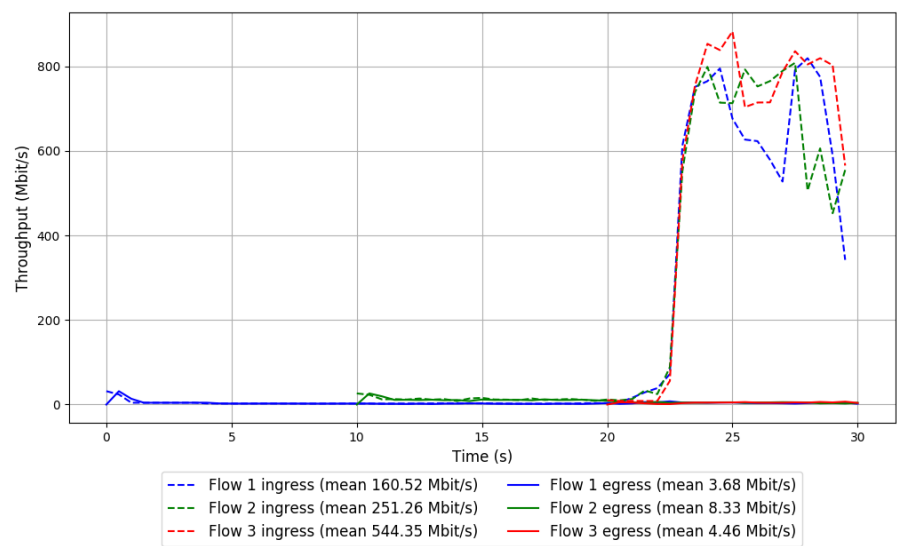


```
Run 1: Statistics of PCC-Expr

Start at: 2019-10-02 22:50:32
End at: 2019-10-02 22:51:02
Local clock offset: -5.577 ms
Remote clock offset: -0.231 ms

# Below is generated by plot.py at 2019-10-03 01:05:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.69 Mbit/s
95th percentile per-packet one-way delay: 1.190 ms
Loss rate: 97.89%
-- Flow 1:
Average throughput: 3.68 Mbit/s
95th percentile per-packet one-way delay: 1.187 ms
Loss rate: 97.71%
-- Flow 2:
Average throughput: 8.33 Mbit/s
95th percentile per-packet one-way delay: 1.311 ms
Loss rate: 96.69%
-- Flow 3:
Average throughput: 4.46 Mbit/s
95th percentile per-packet one-way delay: 0.973 ms
Loss rate: 99.18%
```

Run 1: Report of PCC-Expr — Data Link



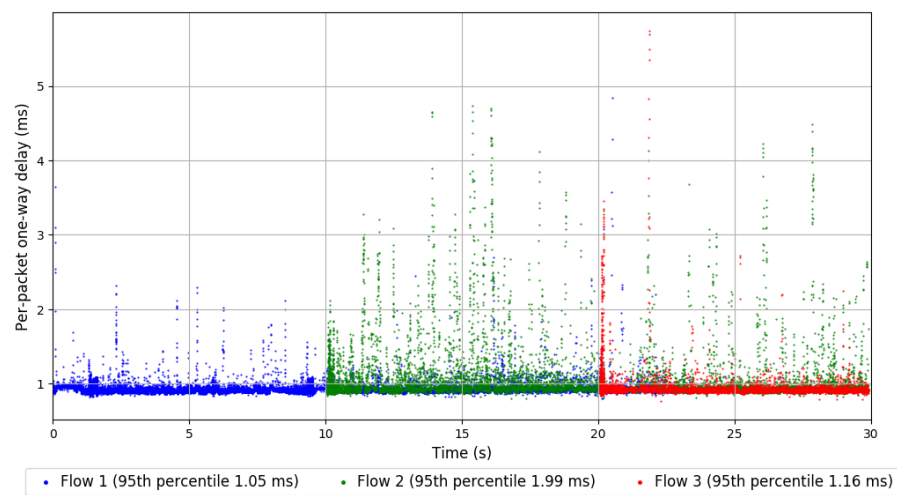
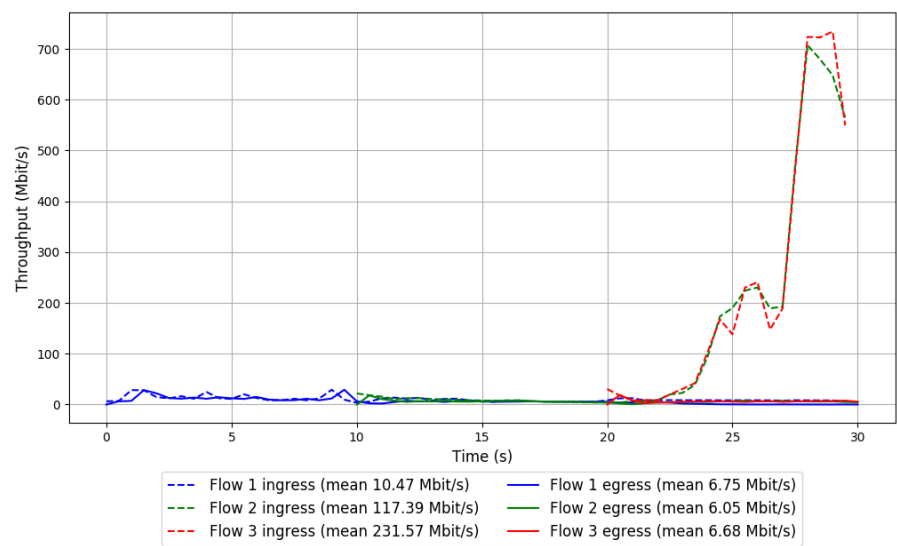


Run 2: Statistics of PCC-Expr

Start at: 2019-10-02 23:17:49  
End at: 2019-10-02 23:18:19  
Local clock offset: -5.443 ms  
Remote clock offset: -0.342 ms

# Below is generated by plot.py at 2019-10-03 01:05:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.95 Mbit/s  
95th percentile per-packet one-way delay: 1.331 ms  
Loss rate: 92.15%  
-- Flow 1:  
Average throughput: 6.75 Mbit/s  
95th percentile per-packet one-way delay: 1.055 ms  
Loss rate: 35.76%  
-- Flow 2:  
Average throughput: 6.05 Mbit/s  
95th percentile per-packet one-way delay: 1.985 ms  
Loss rate: 94.85%  
-- Flow 3:  
Average throughput: 6.68 Mbit/s  
95th percentile per-packet one-way delay: 1.164 ms  
Loss rate: 97.12%

Run 2: Report of PCC-Expr — Data Link

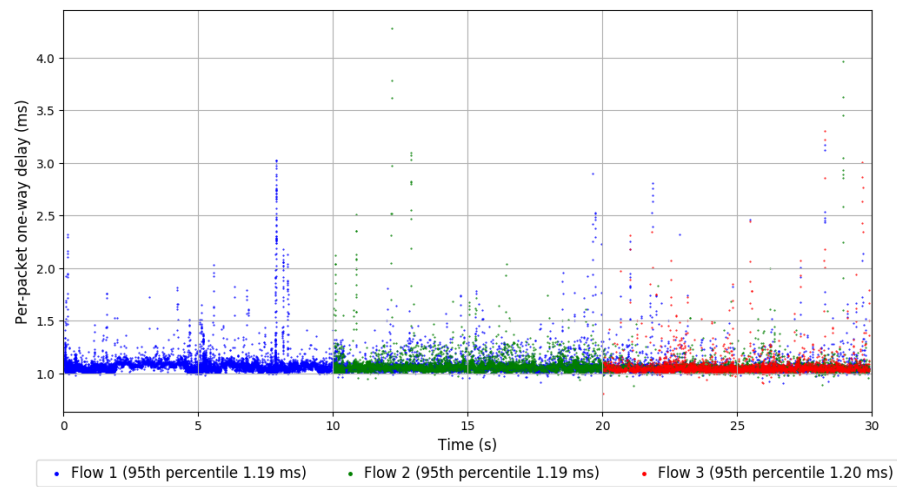
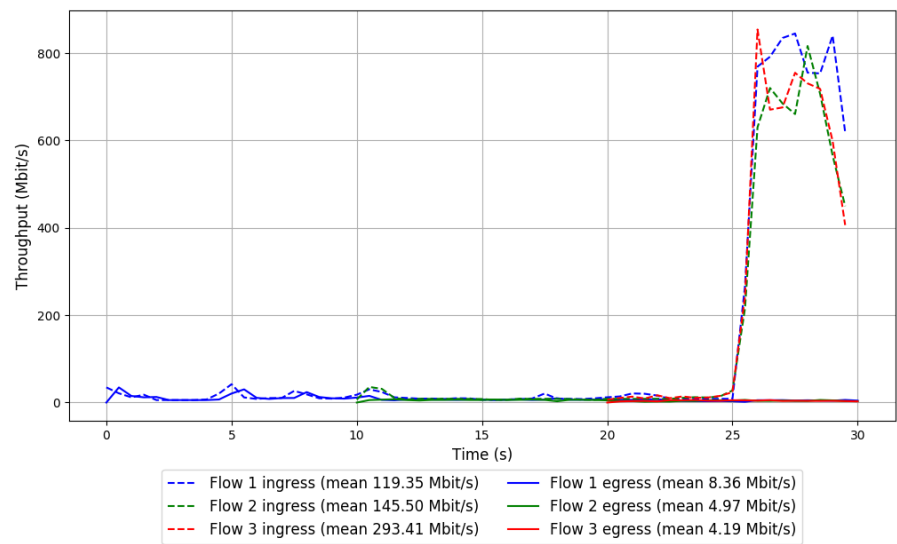


```
Run 3: Statistics of PCC-Expr

Start at: 2019-10-02 23:45:01
End at: 2019-10-02 23:45:31
Local clock offset: -6.717 ms
Remote clock offset: -0.17 ms

# Below is generated by plot.py at 2019-10-03 01:05:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.05 Mbit/s
95th percentile per-packet one-way delay: 1.190 ms
Loss rate: 95.83%
-- Flow 1:
Average throughput: 8.36 Mbit/s
95th percentile per-packet one-way delay: 1.187 ms
Loss rate: 92.99%
-- Flow 2:
Average throughput: 4.97 Mbit/s
95th percentile per-packet one-way delay: 1.191 ms
Loss rate: 96.59%
-- Flow 3:
Average throughput: 4.19 Mbit/s
95th percentile per-packet one-way delay: 1.203 ms
Loss rate: 98.57%
```

Run 3: Report of PCC-Expr — Data Link

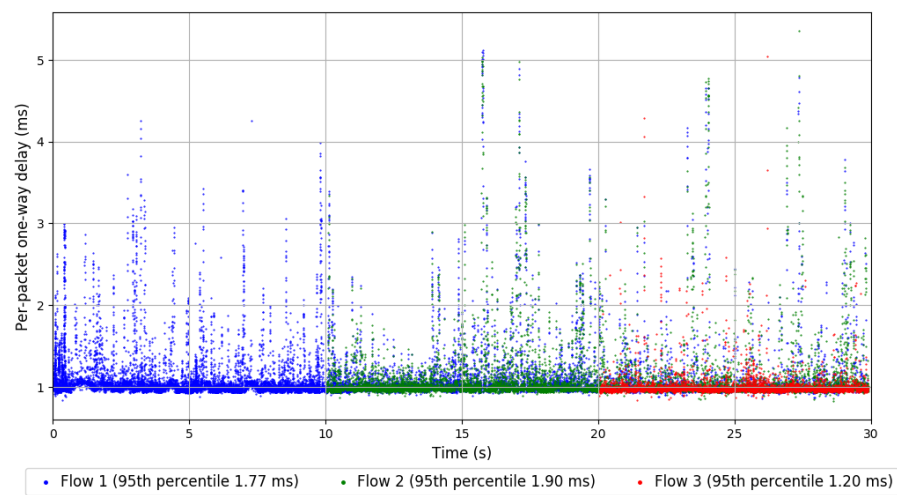
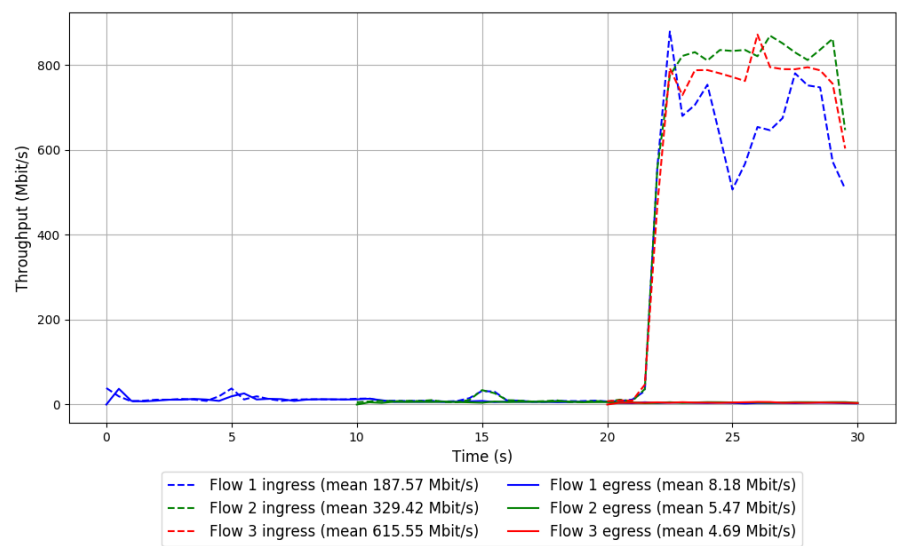


Run 4: Statistics of PCC-Expr

Start at: 2019-10-03 00:12:13  
End at: 2019-10-03 00:12:43  
Local clock offset: -7.169 ms  
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2019-10-03 01:06:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 13.37 Mbit/s  
95th percentile per-packet one-way delay: 1.737 ms  
Loss rate: 97.81%  
-- Flow 1:  
Average throughput: 8.18 Mbit/s  
95th percentile per-packet one-way delay: 1.766 ms  
Loss rate: 95.64%  
-- Flow 2:  
Average throughput: 5.47 Mbit/s  
95th percentile per-packet one-way delay: 1.898 ms  
Loss rate: 98.34%  
-- Flow 3:  
Average throughput: 4.69 Mbit/s  
95th percentile per-packet one-way delay: 1.201 ms  
Loss rate: 99.24%

Run 4: Report of PCC-Expr — Data Link

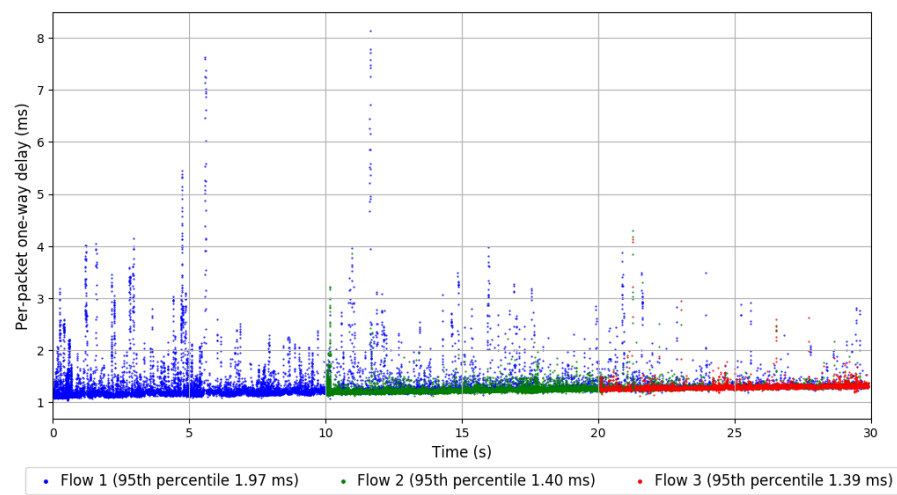
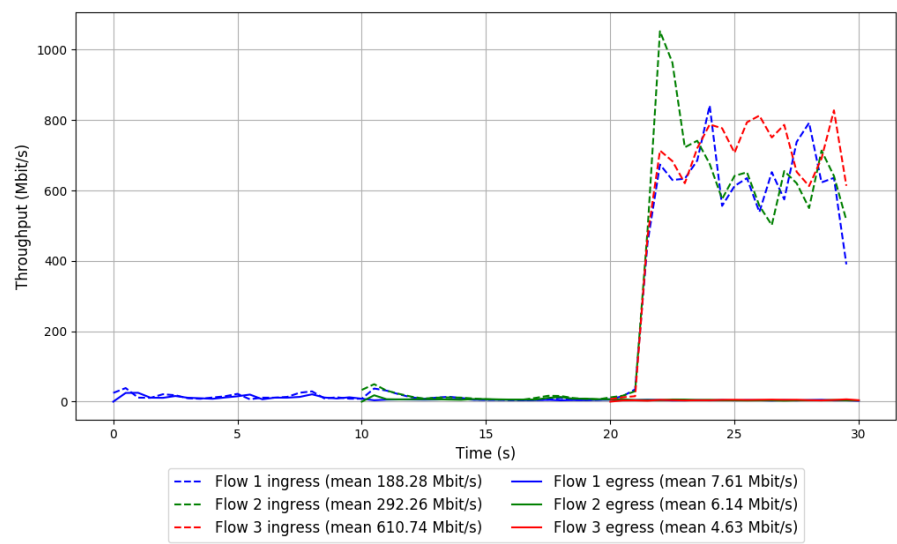


Run 5: Statistics of PCC-Expr

Start at: 2019-10-03 00:39:29  
End at: 2019-10-03 00:39:59  
Local clock offset: 3.417 ms  
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2019-10-03 01:06:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 13.22 Mbit/s  
95th percentile per-packet one-way delay: 1.649 ms  
Loss rate: 97.74%  
-- Flow 1:  
Average throughput: 7.61 Mbit/s  
95th percentile per-packet one-way delay: 1.968 ms  
Loss rate: 95.96%  
-- Flow 2:  
Average throughput: 6.14 Mbit/s  
95th percentile per-packet one-way delay: 1.400 ms  
Loss rate: 97.90%  
-- Flow 3:  
Average throughput: 4.63 Mbit/s  
95th percentile per-packet one-way delay: 1.393 ms  
Loss rate: 99.24%

Run 5: Report of PCC-Expr — Data Link



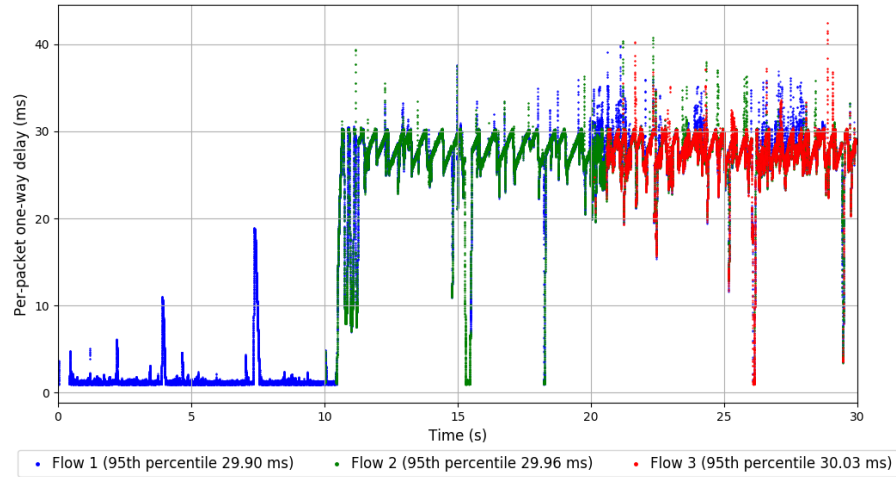
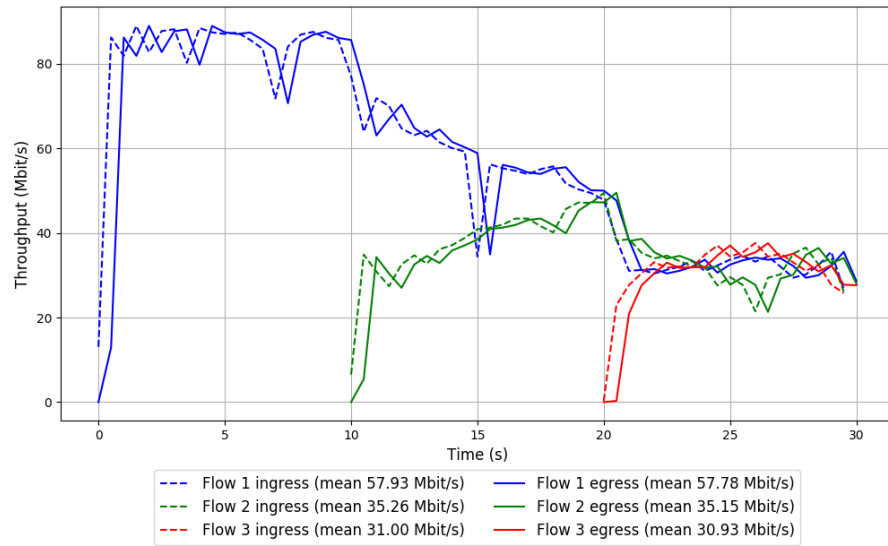


Run 1: Statistics of QUIC Cubic

Start at: 2019-10-02 22:39:12  
End at: 2019-10-02 22:39:42  
Local clock offset: -5.564 ms  
Remote clock offset: -0.174 ms

# Below is generated by plot.py at 2019-10-03 01:06:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.33 Mbit/s  
95th percentile per-packet one-way delay: 29.935 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 57.78 Mbit/s  
95th percentile per-packet one-way delay: 29.900 ms  
Loss rate: 0.17%  
-- Flow 2:  
Average throughput: 35.15 Mbit/s  
95th percentile per-packet one-way delay: 29.964 ms  
Loss rate: 0.18%  
-- Flow 3:  
Average throughput: 30.93 Mbit/s  
95th percentile per-packet one-way delay: 30.034 ms  
Loss rate: 0.18%

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

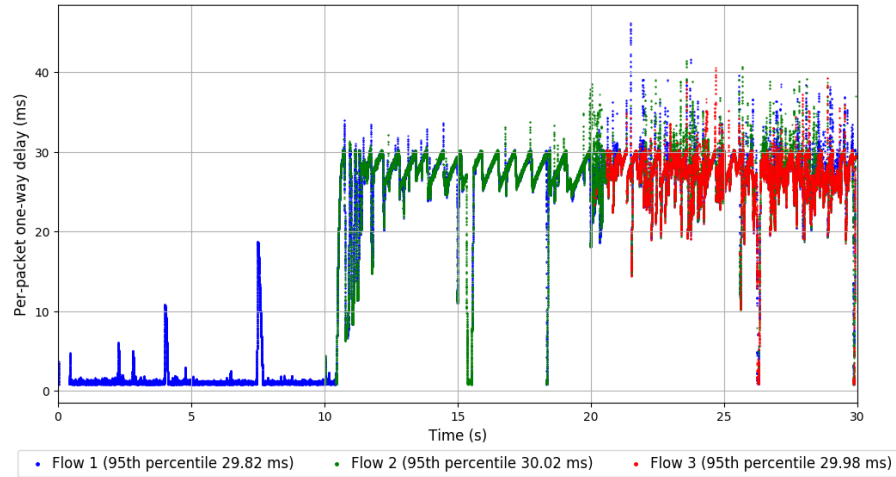
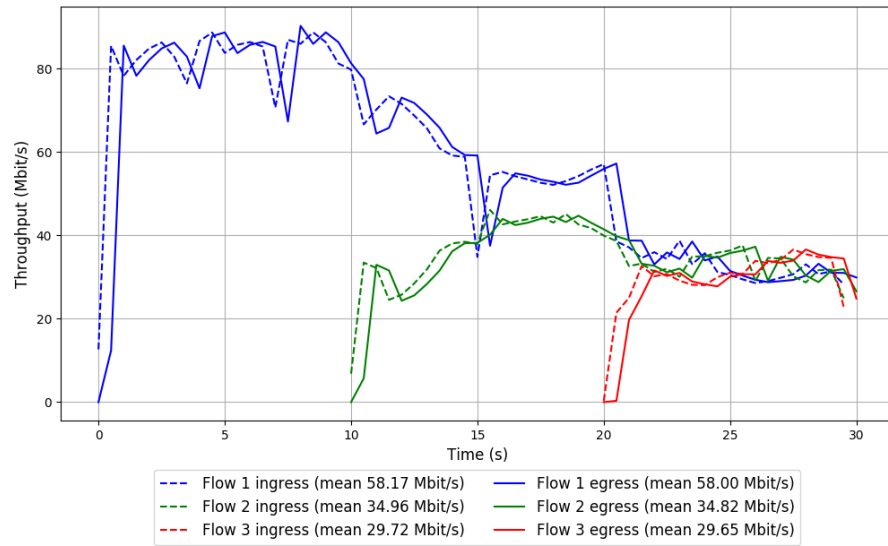


Run 2: Statistics of QUIC Cubic

Start at: 2019-10-02 23:06:28  
End at: 2019-10-02 23:06:58  
Local clock offset: -5.461 ms  
Remote clock offset: -0.255 ms

# Below is generated by plot.py at 2019-10-03 01:06:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.88 Mbit/s  
95th percentile per-packet one-way delay: 29.895 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 58.00 Mbit/s  
95th percentile per-packet one-way delay: 29.823 ms  
Loss rate: 0.20%  
-- Flow 2:  
Average throughput: 34.82 Mbit/s  
95th percentile per-packet one-way delay: 30.025 ms  
Loss rate: 0.20%  
-- Flow 3:  
Average throughput: 29.65 Mbit/s  
95th percentile per-packet one-way delay: 29.975 ms  
Loss rate: 0.18%

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

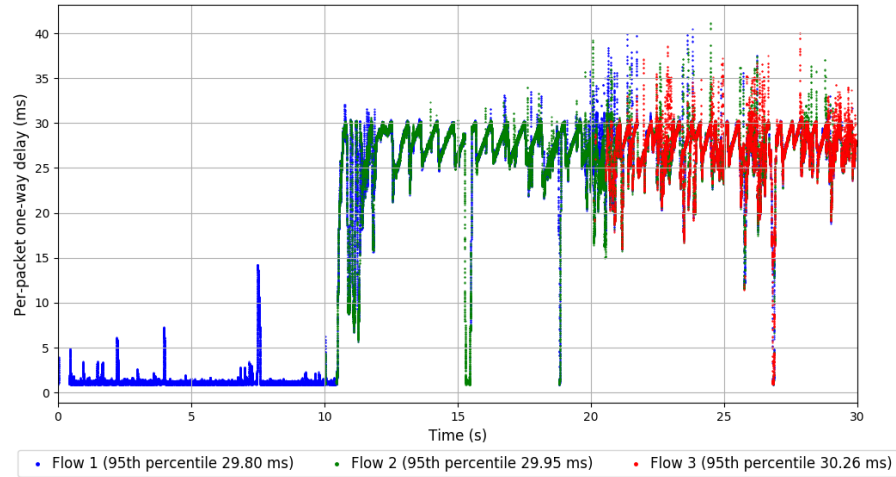
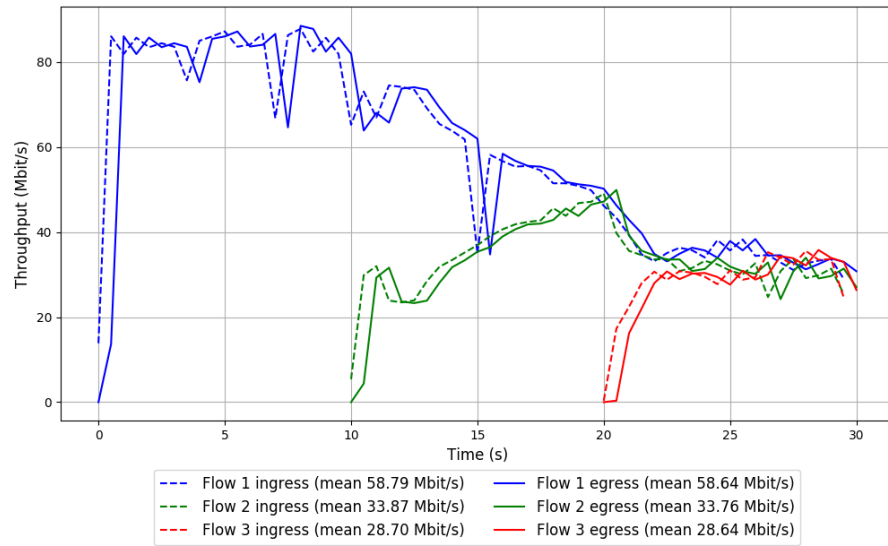


Run 3: Statistics of QUIC Cubic

Start at: 2019-10-02 23:33:41  
End at: 2019-10-02 23:34:11  
Local clock offset: -6.215 ms  
Remote clock offset: -0.215 ms

# Below is generated by plot.py at 2019-10-03 01:06:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.50 Mbit/s  
95th percentile per-packet one-way delay: 29.892 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 58.64 Mbit/s  
95th percentile per-packet one-way delay: 29.799 ms  
Loss rate: 0.16%  
-- Flow 2:  
Average throughput: 33.76 Mbit/s  
95th percentile per-packet one-way delay: 29.947 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 28.64 Mbit/s  
95th percentile per-packet one-way delay: 30.262 ms  
Loss rate: 0.16%

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

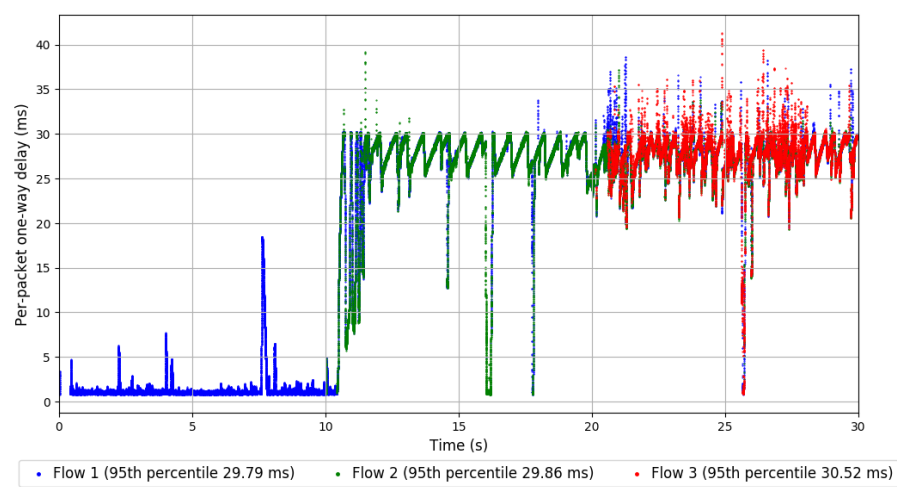
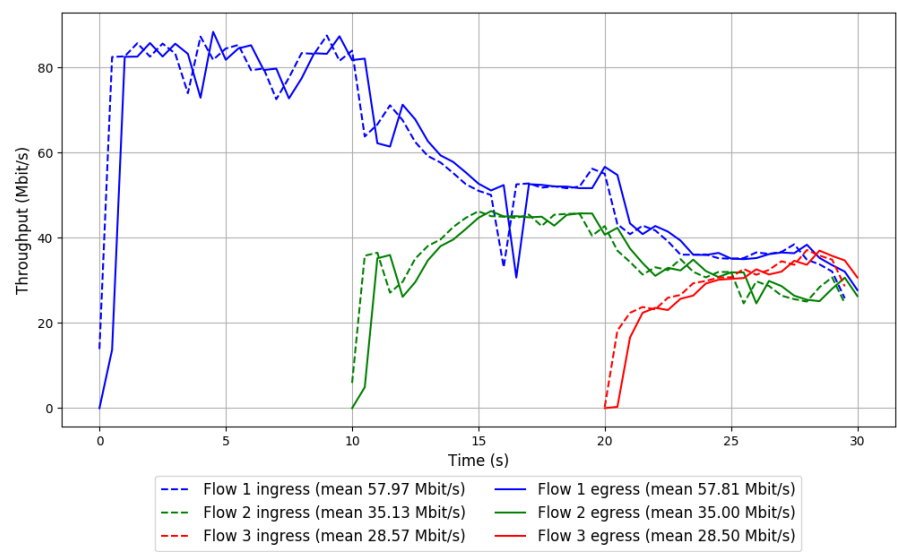


Run 4: Statistics of QUIC Cubic

Start at: 2019-10-03 00:00:53  
End at: 2019-10-03 00:01:23  
Local clock offset: -6.969 ms  
Remote clock offset: -0.233 ms

# Below is generated by plot.py at 2019-10-03 01:06:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.46 Mbit/s  
95th percentile per-packet one-way delay: 29.850 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 57.81 Mbit/s  
95th percentile per-packet one-way delay: 29.788 ms  
Loss rate: 0.18%  
-- Flow 2:  
Average throughput: 35.00 Mbit/s  
95th percentile per-packet one-way delay: 29.858 ms  
Loss rate: 0.25%  
-- Flow 3:  
Average throughput: 28.50 Mbit/s  
95th percentile per-packet one-way delay: 30.524 ms  
Loss rate: 0.22%

Run 4: Report of QUIC Cubic — Data Link



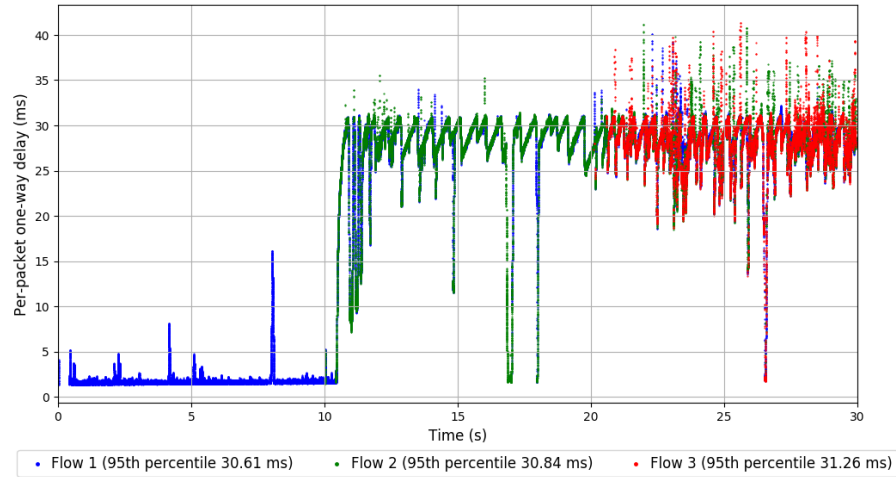
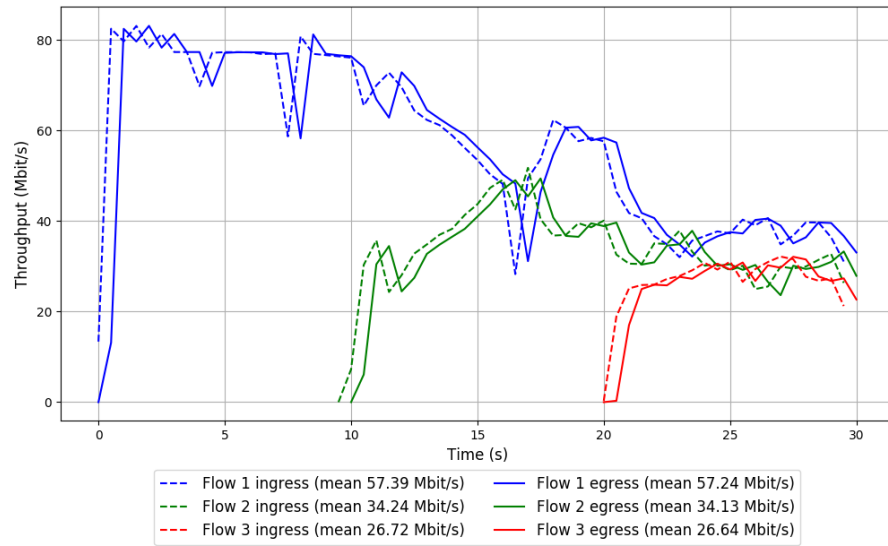


Run 5: Statistics of QUIC Cubic

Start at: 2019-10-03 00:28:09  
End at: 2019-10-03 00:28:39  
Local clock offset: -3.673 ms  
Remote clock offset: -0.094 ms

# Below is generated by plot.py at 2019-10-03 01:06:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.72 Mbit/s  
95th percentile per-packet one-way delay: 30.722 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 57.24 Mbit/s  
95th percentile per-packet one-way delay: 30.606 ms  
Loss rate: 0.17%  
-- Flow 2:  
Average throughput: 34.13 Mbit/s  
95th percentile per-packet one-way delay: 30.838 ms  
Loss rate: 0.18%  
-- Flow 3:  
Average throughput: 26.64 Mbit/s  
95th percentile per-packet one-way delay: 31.256 ms  
Loss rate: 0.31%

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

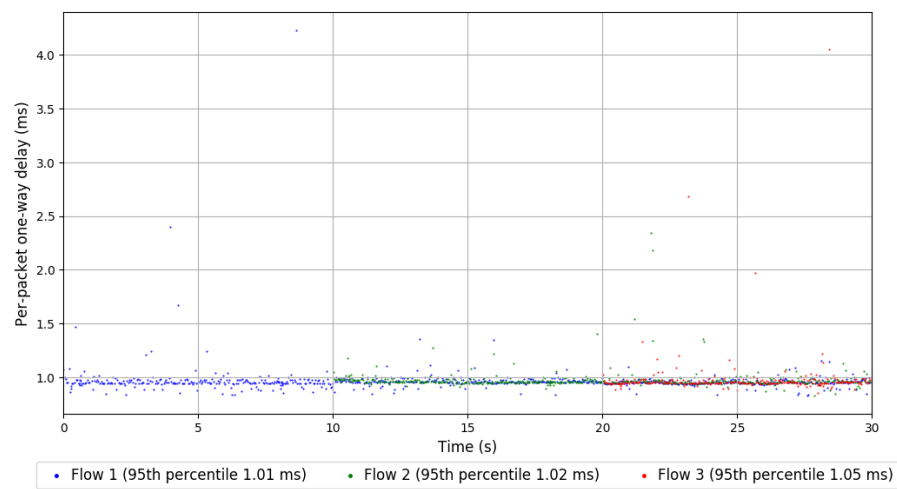
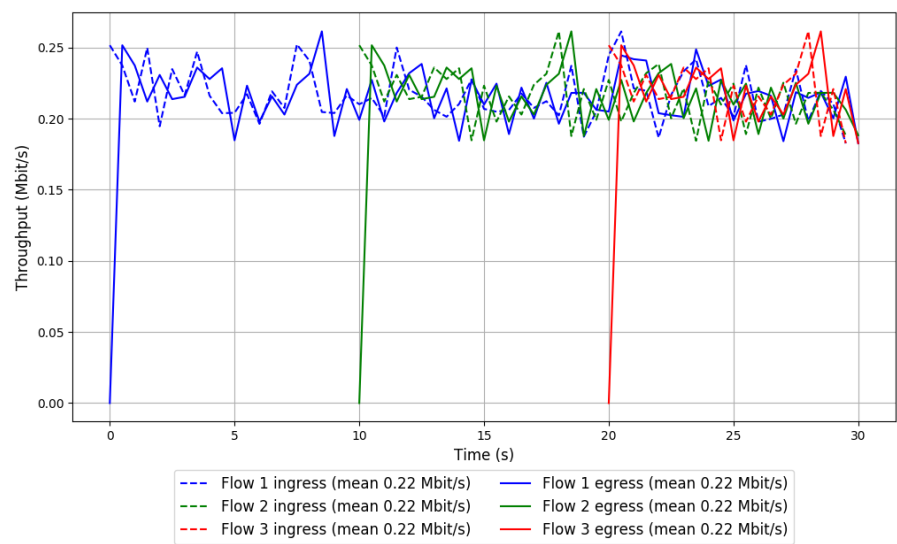


Run 1: Statistics of SReAM

Start at: 2019-10-02 22:38:06  
End at: 2019-10-02 22:38:36  
Local clock offset: -5.615 ms  
Remote clock offset: -0.341 ms

# Below is generated by plot.py at 2019-10-03 01:06:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 1.023 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.007 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.025 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.047 ms  
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

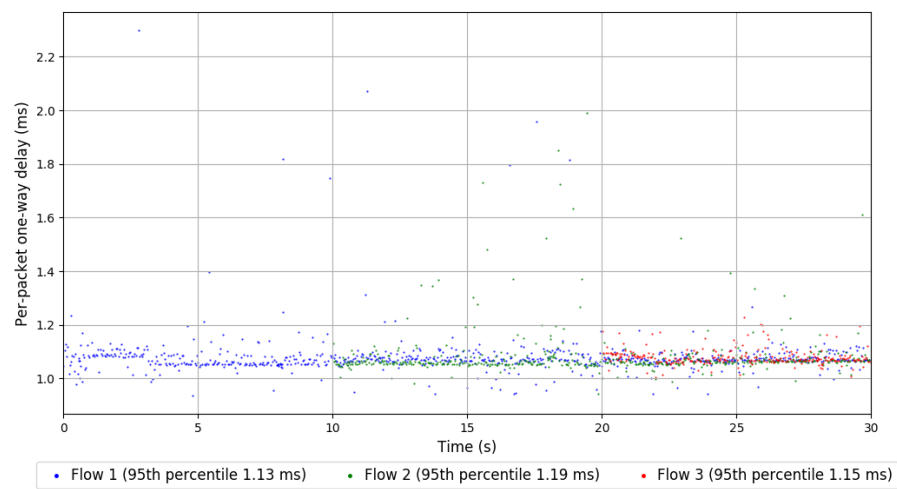
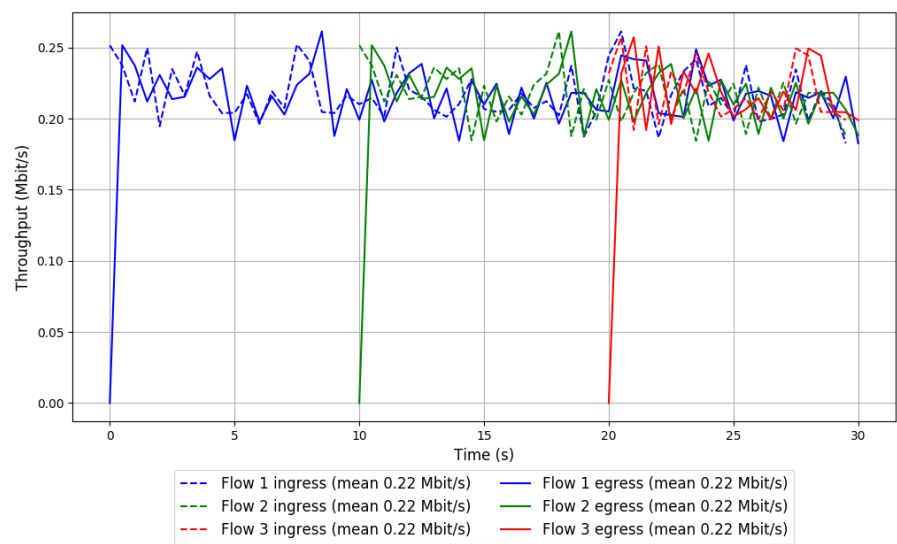


Run 2: Statistics of SReAM

Start at: 2019-10-02 23:05:23  
End at: 2019-10-02 23:05:53  
Local clock offset: -5.473 ms  
Remote clock offset: -0.202 ms

# Below is generated by plot.py at 2019-10-03 01:06:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 1.145 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.130 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.191 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.151 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

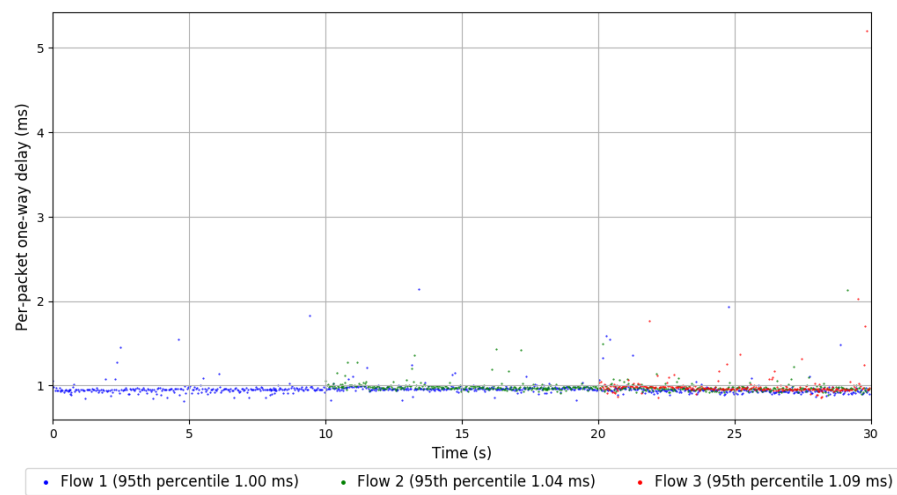
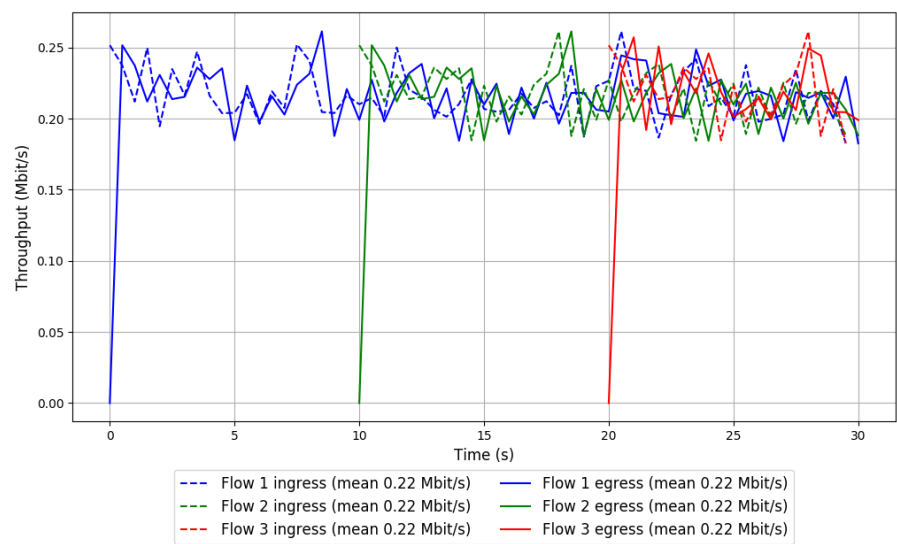


Run 3: Statistics of SReAM

Start at: 2019-10-02 23:32:35  
End at: 2019-10-02 23:33:05  
Local clock offset: -6.147 ms  
Remote clock offset: -0.264 ms

# Below is generated by plot.py at 2019-10-03 01:06:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 1.037 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.001 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.045 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.095 ms  
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



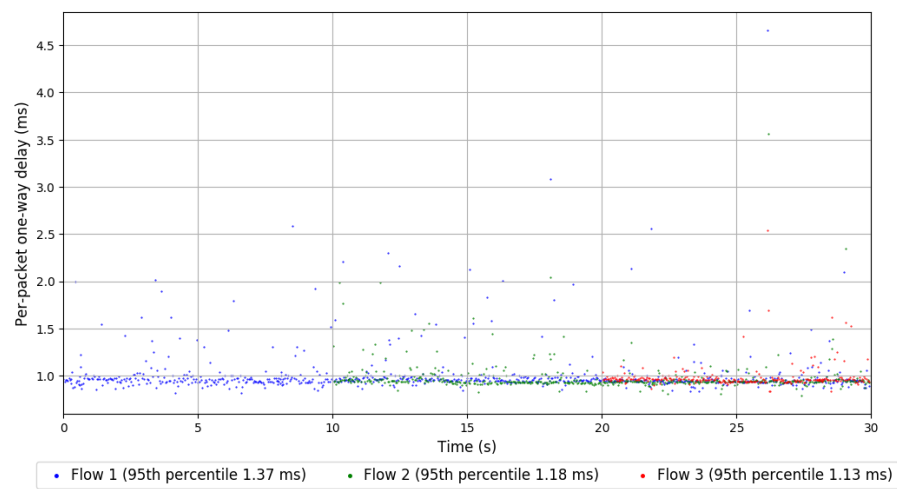
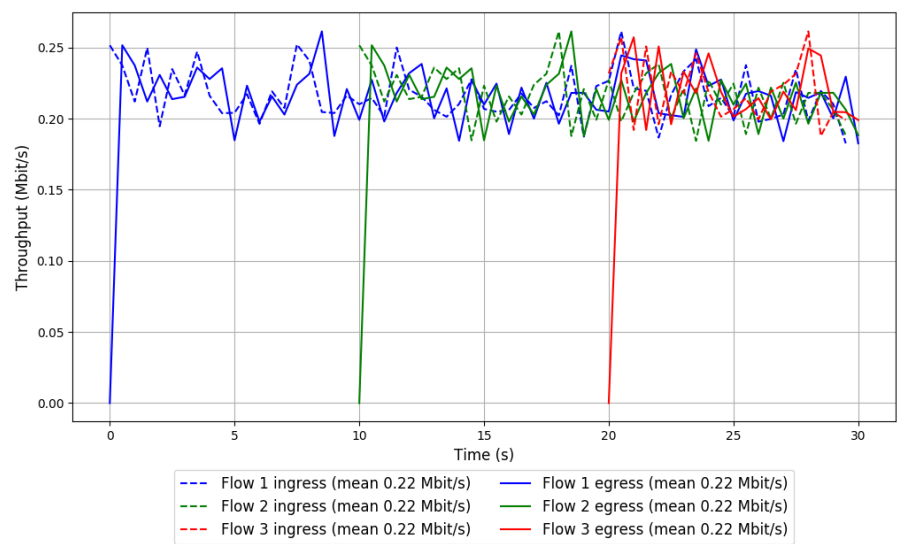


Run 4: Statistics of SReAM

Start at: 2019-10-02 23:59:48  
End at: 2019-10-03 00:00:18  
Local clock offset: -6.959 ms  
Remote clock offset: -0.276 ms

# Below is generated by plot.py at 2019-10-03 01:06:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 1.232 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.374 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.184 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.132 ms  
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

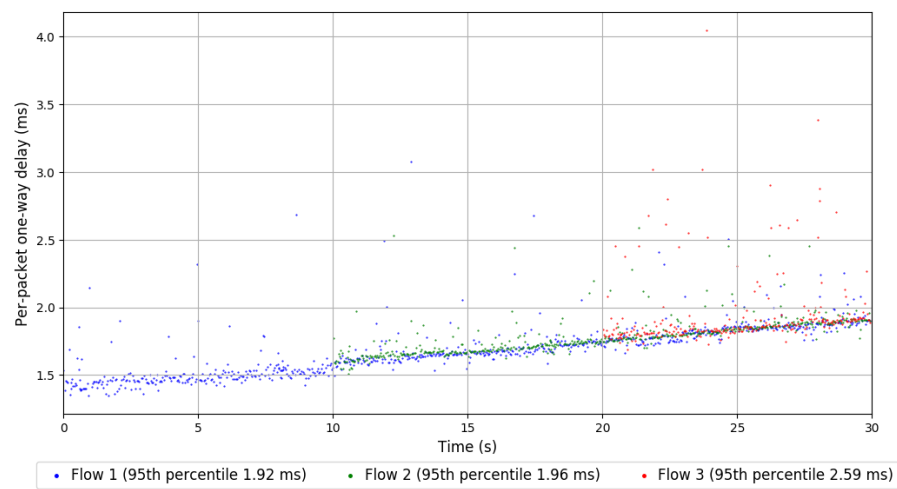
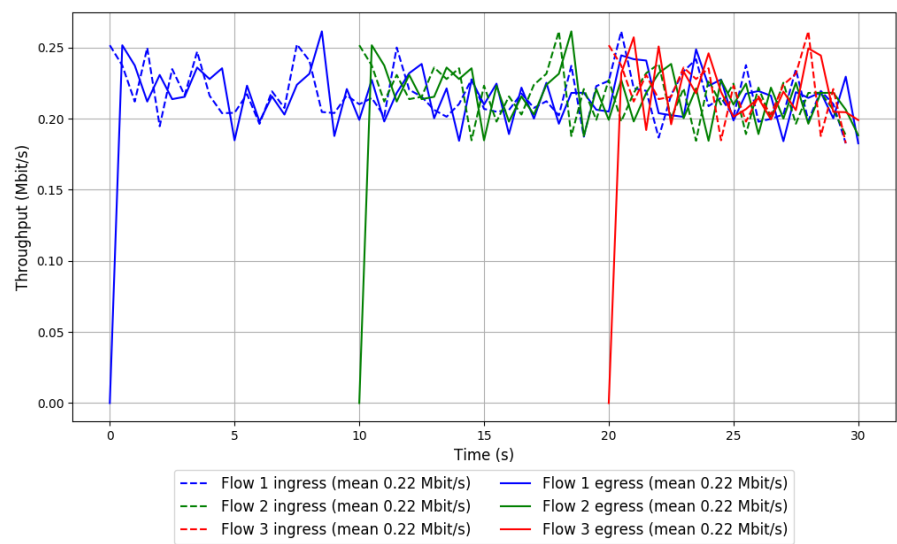


Run 5: Statistics of SReAM

Start at: 2019-10-03 00:27:04  
End at: 2019-10-03 00:27:34  
Local clock offset: -4.682 ms  
Remote clock offset: -0.143 ms

# Below is generated by plot.py at 2019-10-03 01:06:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 2.006 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.915 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.963 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.588 ms  
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

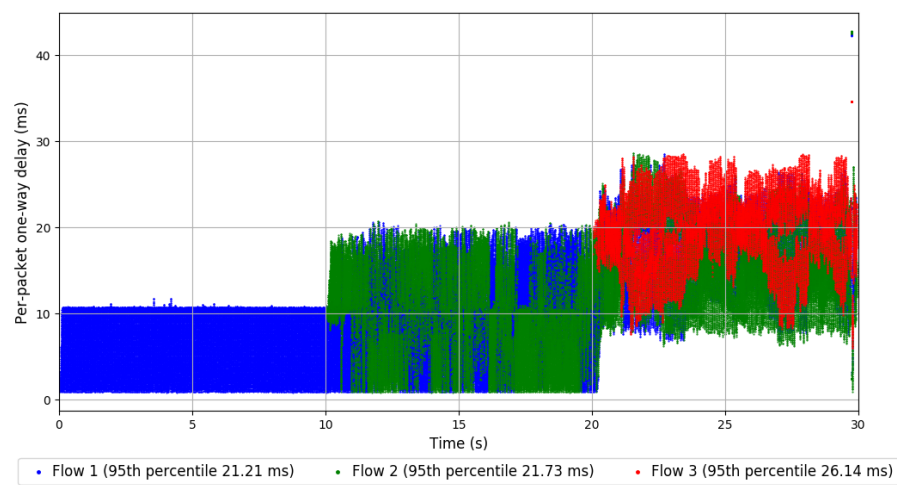
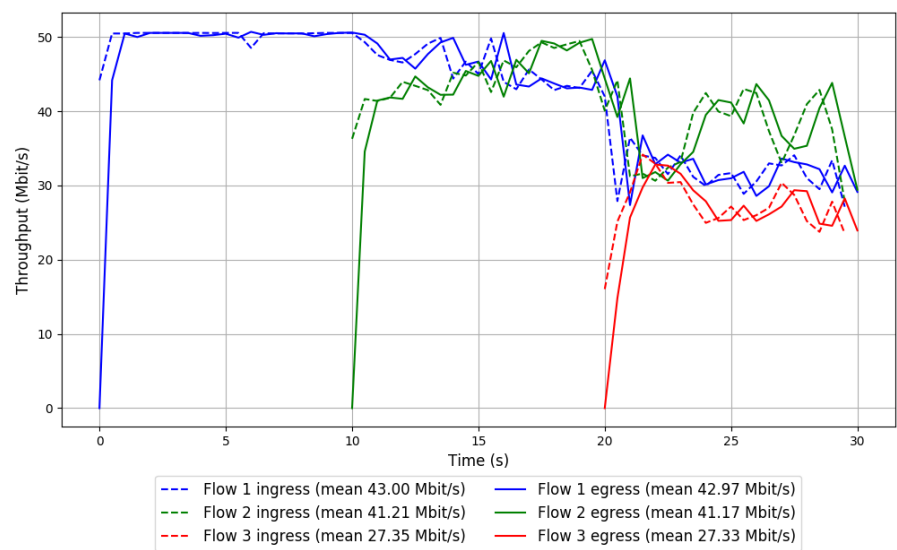


Run 1: Statistics of Sprout

Start at: 2019-10-02 22:54:02  
End at: 2019-10-02 22:54:32  
Local clock offset: -5.588 ms  
Remote clock offset: -0.203 ms

# Below is generated by plot.py at 2019-10-03 01:06:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.39 Mbit/s  
95th percentile per-packet one-way delay: 22.852 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 42.97 Mbit/s  
95th percentile per-packet one-way delay: 21.213 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 41.17 Mbit/s  
95th percentile per-packet one-way delay: 21.733 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 27.33 Mbit/s  
95th percentile per-packet one-way delay: 26.145 ms  
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

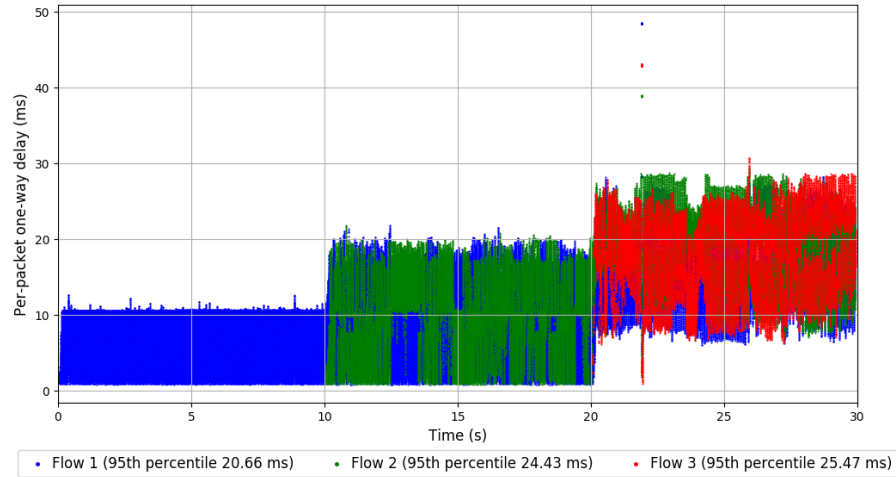
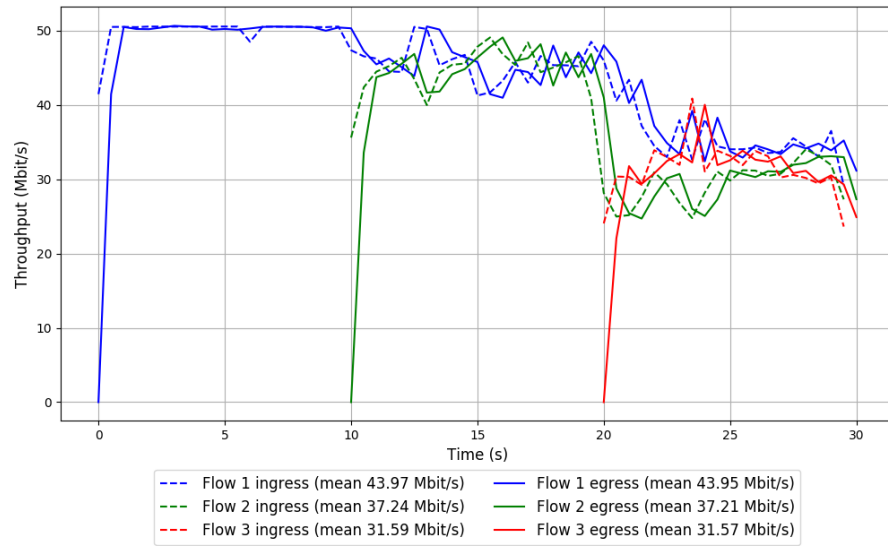


## Run 2: Statistics of Sprout

Start at: 2019-10-02 23:21:15  
End at: 2019-10-02 23:21:45  
Local clock offset: -5.379 ms  
Remote clock offset: -0.303 ms

```
# Below is generated by plot.py at 2019-10-03 01:06:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.12 Mbit/s
95th percentile per-packet one-way delay: 23.613 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 43.95 Mbit/s
95th percentile per-packet one-way delay: 20.662 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.21 Mbit/s
95th percentile per-packet one-way delay: 24.430 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 31.57 Mbit/s
95th percentile per-packet one-way delay: 25.472 ms
Loss rate: 0.00%
```

## Run 2: Report of Sprout — Data Link



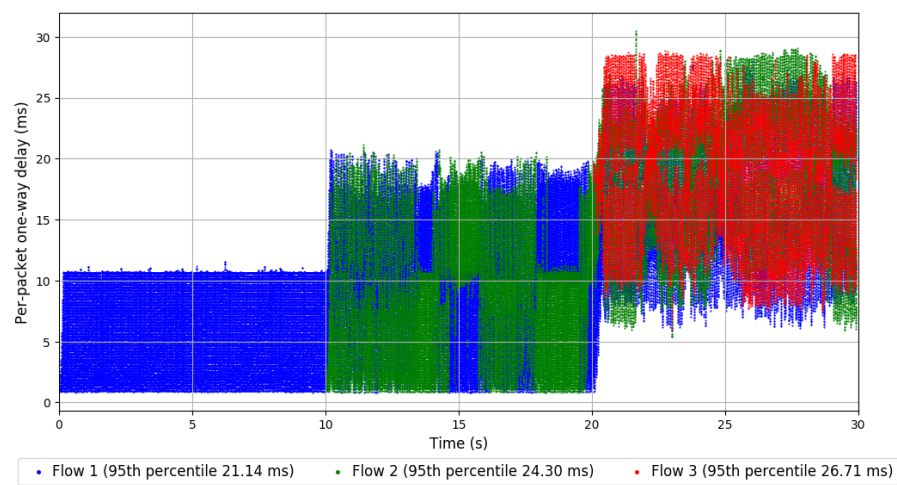
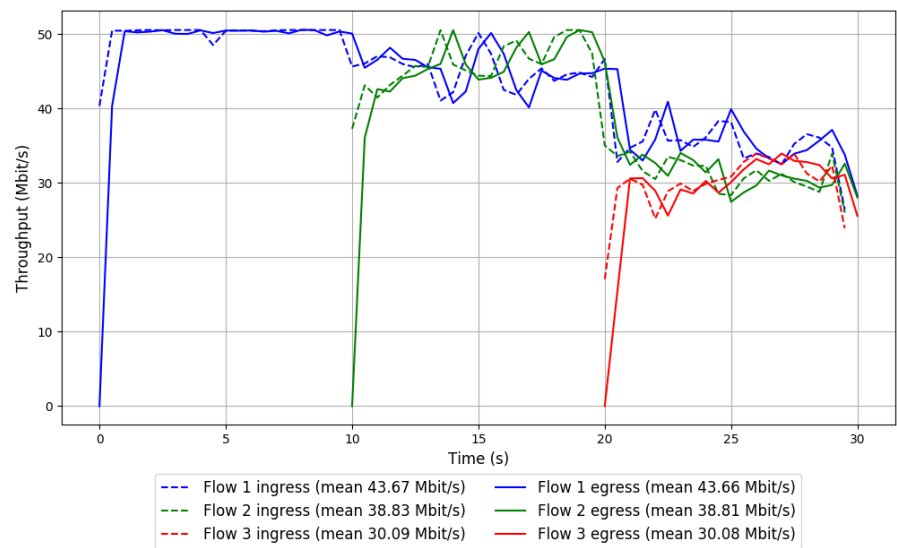


Run 3: Statistics of Sprout

Start at: 2019-10-02 23:48:29  
End at: 2019-10-02 23:48:59  
Local clock offset: -6.735 ms  
Remote clock offset: -0.248 ms

# Below is generated by plot.py at 2019-10-03 01:06:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.39 Mbit/s  
95th percentile per-packet one-way delay: 23.945 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 43.66 Mbit/s  
95th percentile per-packet one-way delay: 21.145 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 38.81 Mbit/s  
95th percentile per-packet one-way delay: 24.303 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 30.08 Mbit/s  
95th percentile per-packet one-way delay: 26.706 ms  
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

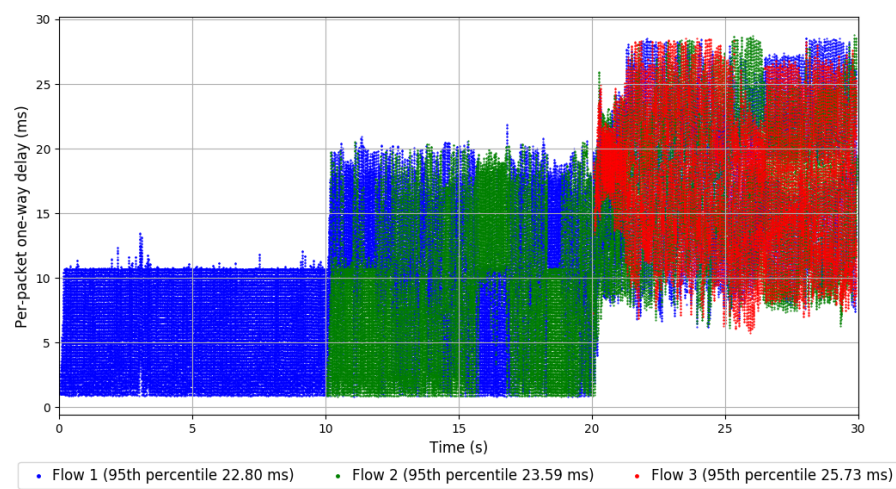
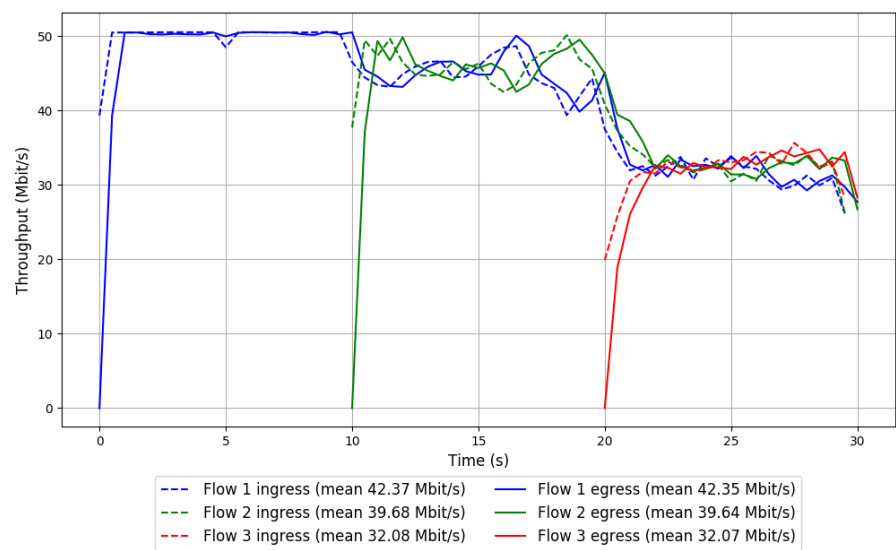


#### Run 4: Statistics of Sprout

Start at: 2019-10-03 00:15:45  
End at: 2019-10-03 00:16:15  
Local clock offset: -7.175 ms  
Remote clock offset: -0.069 ms

```
# Below is generated by plot.py at 2019-10-03 01:06:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.31 Mbit/s
95th percentile per-packet one-way delay: 23.901 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.35 Mbit/s
95th percentile per-packet one-way delay: 22.798 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.64 Mbit/s
95th percentile per-packet one-way delay: 23.593 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 32.07 Mbit/s
95th percentile per-packet one-way delay: 25.726 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

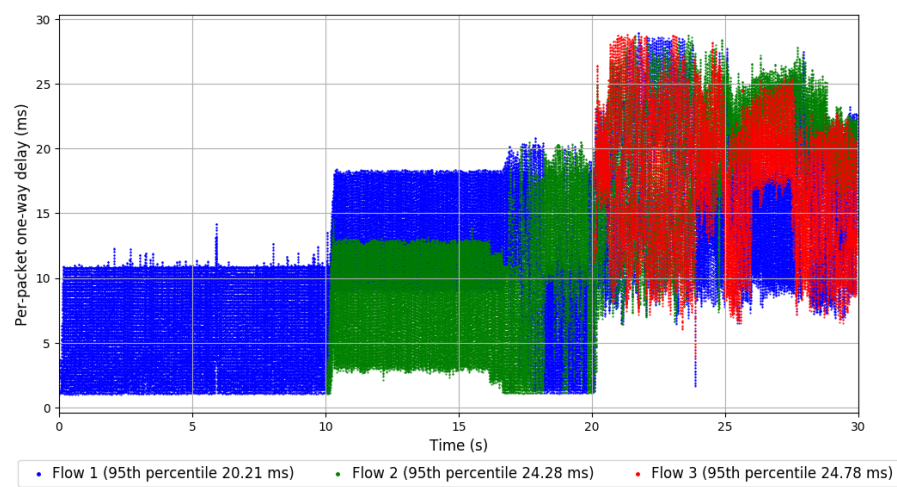
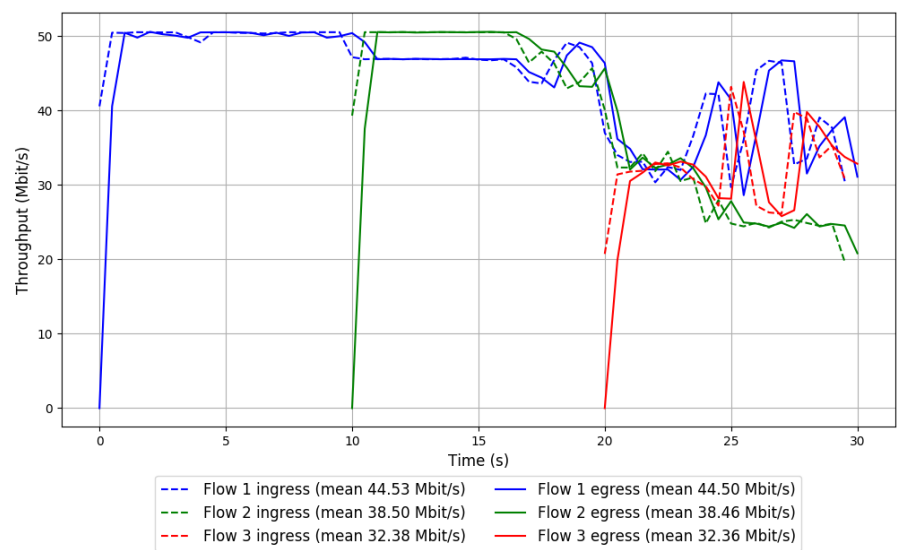


Run 5: Statistics of Sprout

Start at: 2019-10-03 00:43:01  
End at: 2019-10-03 00:43:31  
Local clock offset: 4.662 ms  
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2019-10-03 01:06:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.78 Mbit/s  
95th percentile per-packet one-way delay: 23.320 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 44.50 Mbit/s  
95th percentile per-packet one-way delay: 20.207 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 38.46 Mbit/s  
95th percentile per-packet one-way delay: 24.276 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 32.36 Mbit/s  
95th percentile per-packet one-way delay: 24.776 ms  
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

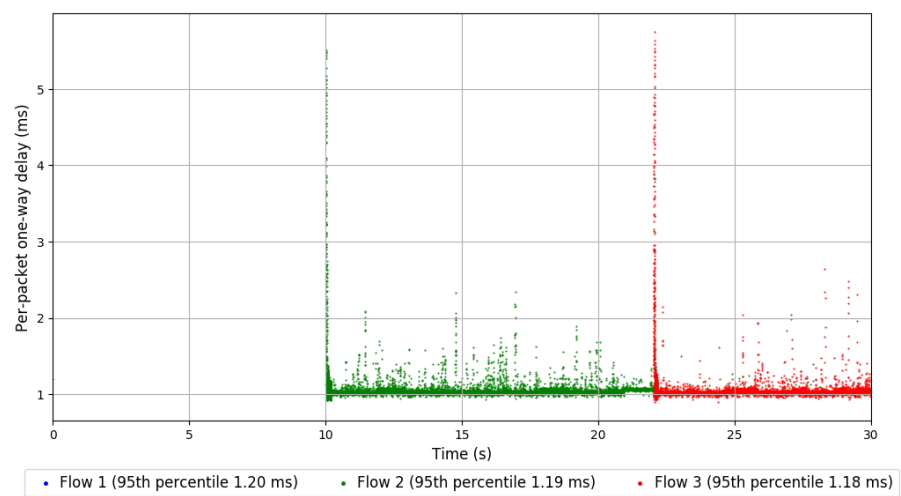
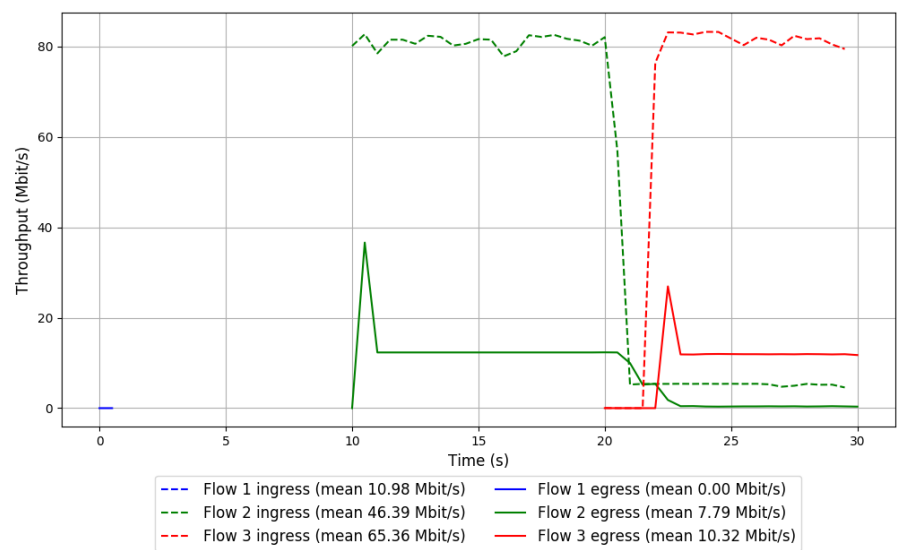


Run 1: Statistics of TaoVA-100x

Start at: 2019-10-02 22:47:08  
End at: 2019-10-02 22:47:38  
Local clock offset: -5.605 ms  
Remote clock offset: -0.173 ms

# Below is generated by plot.py at 2019-10-03 01:06:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.62 Mbit/s  
95th percentile per-packet one-way delay: 1.190 ms  
Loss rate: 83.63%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 1.197 ms  
Loss rate: 95.92%  
-- Flow 2:  
Average throughput: 7.79 Mbit/s  
95th percentile per-packet one-way delay: 1.192 ms  
Loss rate: 83.21%  
-- Flow 3:  
Average throughput: 10.32 Mbit/s  
95th percentile per-packet one-way delay: 1.184 ms  
Loss rate: 84.22%

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



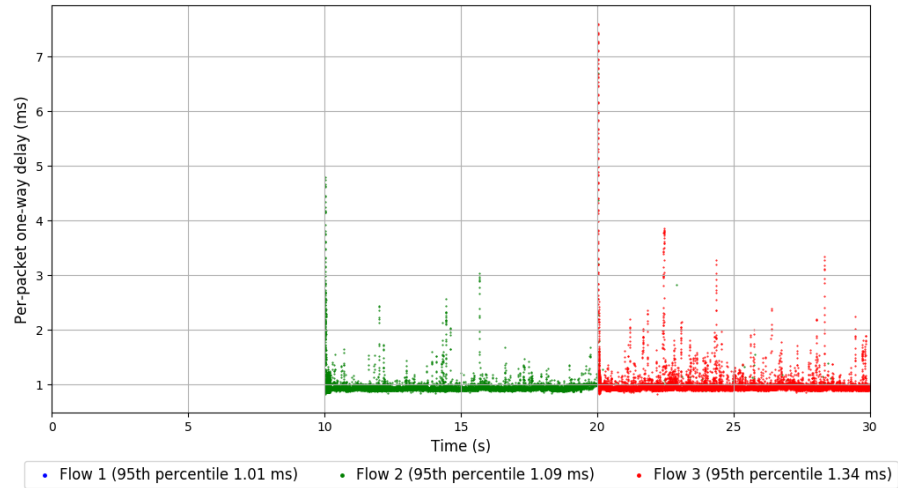
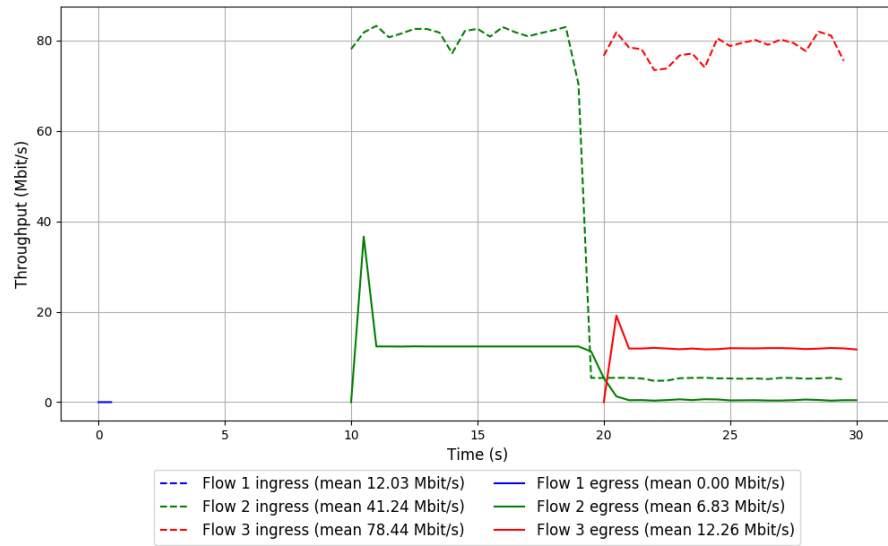


Run 2: Statistics of TaoVA-100x

Start at: 2019-10-02 23:14:24  
End at: 2019-10-02 23:14:54  
Local clock offset: -5.405 ms  
Remote clock offset: -0.274 ms

# Below is generated by plot.py at 2019-10-03 01:06:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.62 Mbit/s  
95th percentile per-packet one-way delay: 1.202 ms  
Loss rate: 83.90%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 1.012 ms  
Loss rate: 95.92%  
-- Flow 2:  
Average throughput: 6.83 Mbit/s  
95th percentile per-packet one-way delay: 1.094 ms  
Loss rate: 83.45%  
-- Flow 3:  
Average throughput: 12.26 Mbit/s  
95th percentile per-packet one-way delay: 1.342 ms  
Loss rate: 84.38%

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

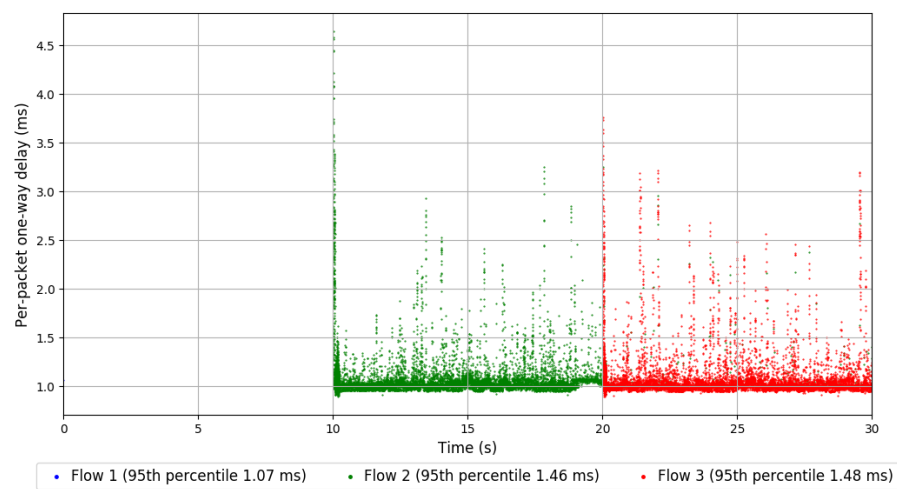
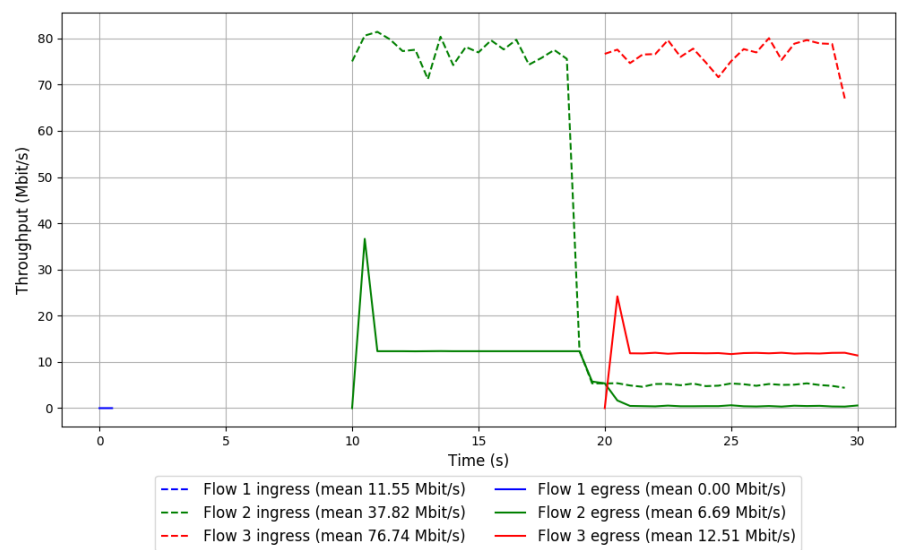


Run 3: Statistics of TaoVA-100x

Start at: 2019-10-02 23:41:37  
End at: 2019-10-02 23:42:07  
Local clock offset: -6.571 ms  
Remote clock offset: -0.188 ms

# Below is generated by plot.py at 2019-10-03 01:06:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.62 Mbit/s  
95th percentile per-packet one-way delay: 1.465 ms  
Loss rate: 83.01%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 1.069 ms  
Loss rate: 95.92%  
-- Flow 2:  
Average throughput: 6.69 Mbit/s  
95th percentile per-packet one-way delay: 1.459 ms  
Loss rate: 82.31%  
-- Flow 3:  
Average throughput: 12.51 Mbit/s  
95th percentile per-packet one-way delay: 1.477 ms  
Loss rate: 83.69%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-10-03 00:08:49

End at: 2019-10-03 00:09:19

Local clock offset: -7.154 ms

Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2019-10-03 01:06:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.62 Mbit/s

95th percentile per-packet one-way delay: 1.282 ms

Loss rate: 84.02%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 1.139 ms

Loss rate: 95.92%

-- Flow 2:

Average throughput: 6.89 Mbit/s

95th percentile per-packet one-way delay: 1.247 ms

Loss rate: 83.31%

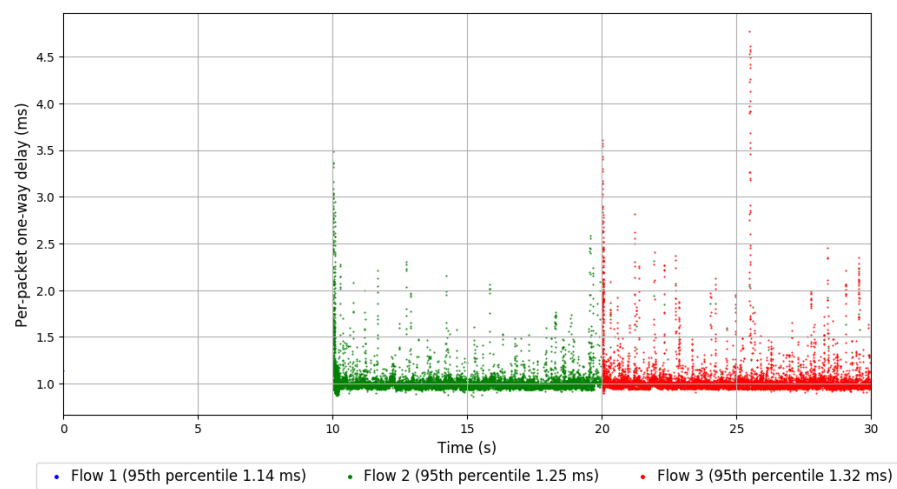
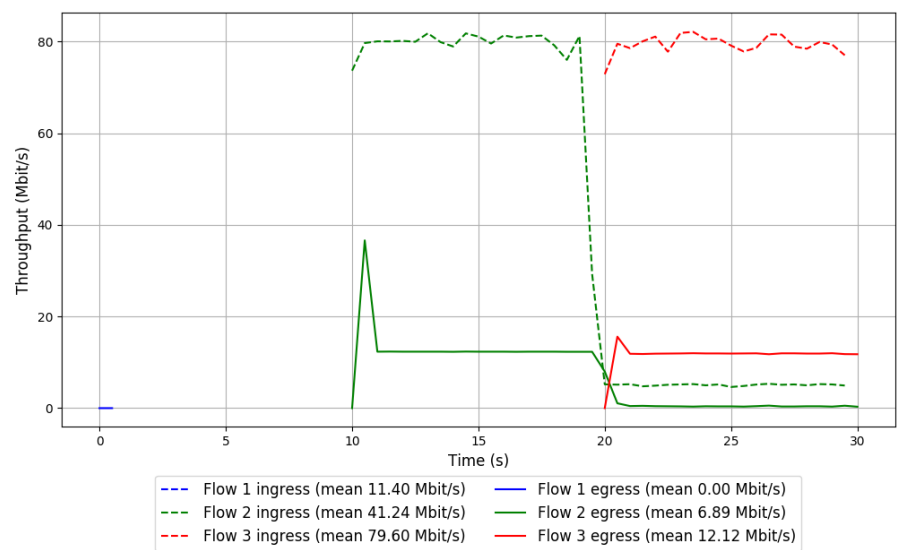
-- Flow 3:

Average throughput: 12.12 Mbit/s

95th percentile per-packet one-way delay: 1.318 ms

Loss rate: 84.77%

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

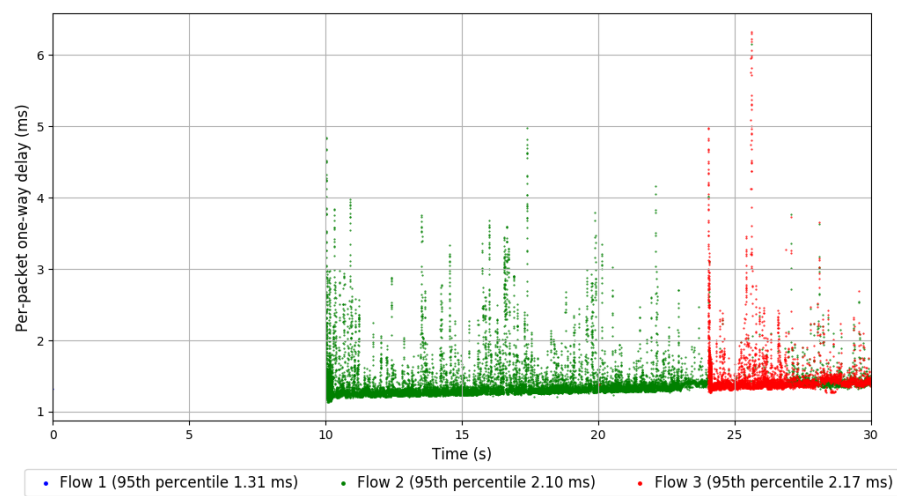
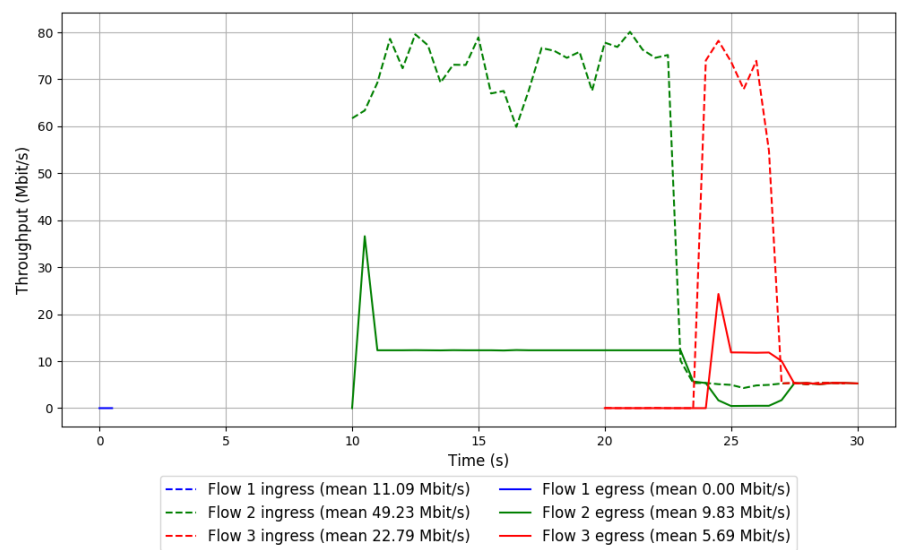


Run 5: Statistics of TaoVA-100x

Start at: 2019-10-03 00:36:05  
End at: 2019-10-03 00:36:35  
Local clock offset: 1.937 ms  
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2019-10-03 01:06:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.44 Mbit/s  
95th percentile per-packet one-way delay: 2.114 ms  
Loss rate: 79.10%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 1.310 ms  
Loss rate: 95.92%  
-- Flow 2:  
Average throughput: 9.83 Mbit/s  
95th percentile per-packet one-way delay: 2.103 ms  
Loss rate: 80.04%  
-- Flow 3:  
Average throughput: 5.69 Mbit/s  
95th percentile per-packet one-way delay: 2.168 ms  
Loss rate: 75.04%

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



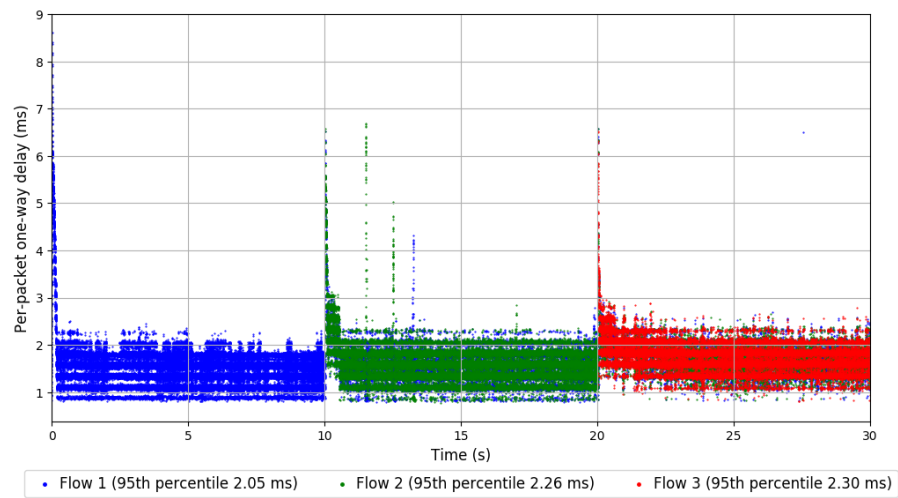
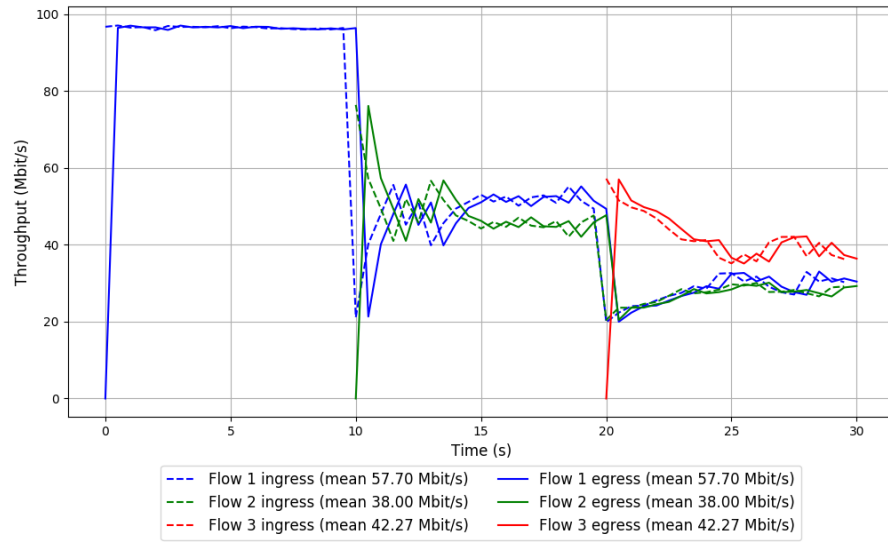


Run 1: Statistics of TCP Vegas

Start at: 2019-10-02 22:57:27  
End at: 2019-10-02 22:57:57  
Local clock offset: -5.531 ms  
Remote clock offset: -0.276 ms

# Below is generated by plot.py at 2019-10-03 01:07:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.07 Mbit/s  
95th percentile per-packet one-way delay: 2.099 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 57.70 Mbit/s  
95th percentile per-packet one-way delay: 2.052 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 38.00 Mbit/s  
95th percentile per-packet one-way delay: 2.264 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 42.27 Mbit/s  
95th percentile per-packet one-way delay: 2.297 ms  
Loss rate: 0.00%

# Run 1: Report of TCP Vegas — Data Link

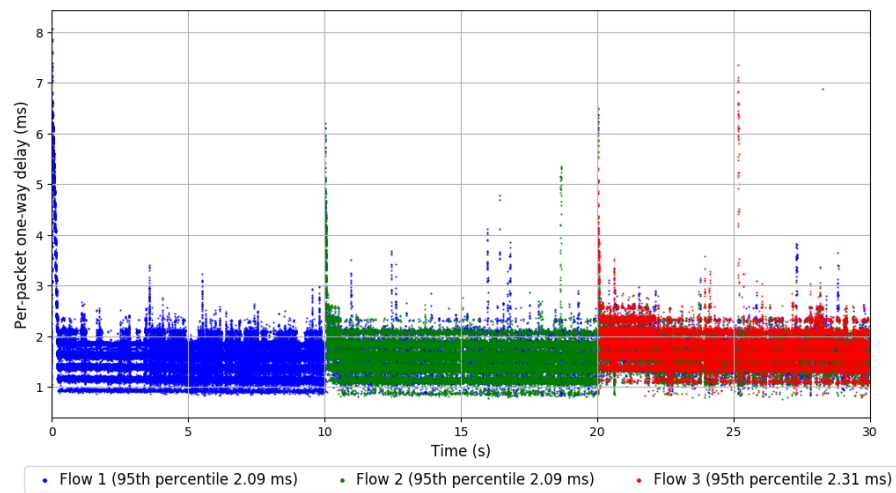
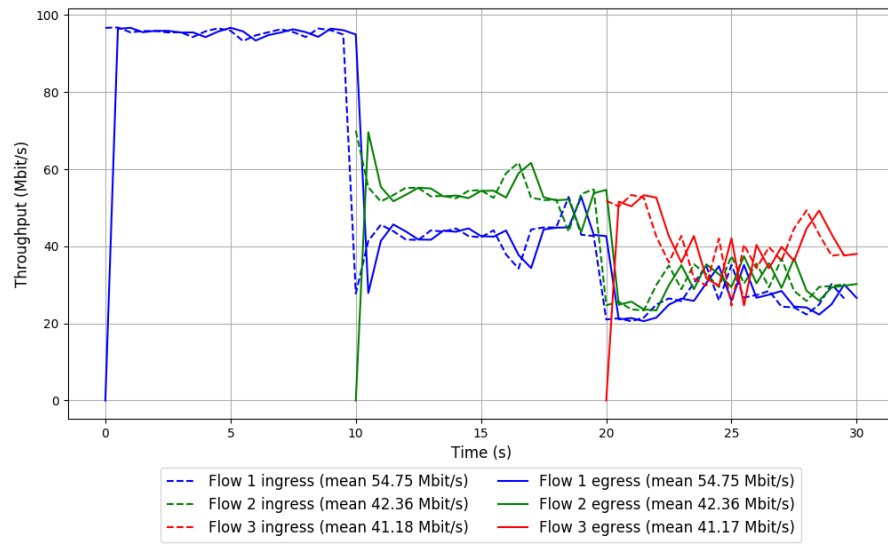


Run 2: Statistics of TCP Vegas

Start at: 2019-10-02 23:24:39  
End at: 2019-10-02 23:25:09  
Local clock offset: -5.379 ms  
Remote clock offset: -0.264 ms

# Below is generated by plot.py at 2019-10-03 01:07:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.65 Mbit/s  
95th percentile per-packet one-way delay: 2.110 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 54.75 Mbit/s  
95th percentile per-packet one-way delay: 2.093 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 42.36 Mbit/s  
95th percentile per-packet one-way delay: 2.093 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 41.17 Mbit/s  
95th percentile per-packet one-way delay: 2.308 ms  
Loss rate: 0.00%

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

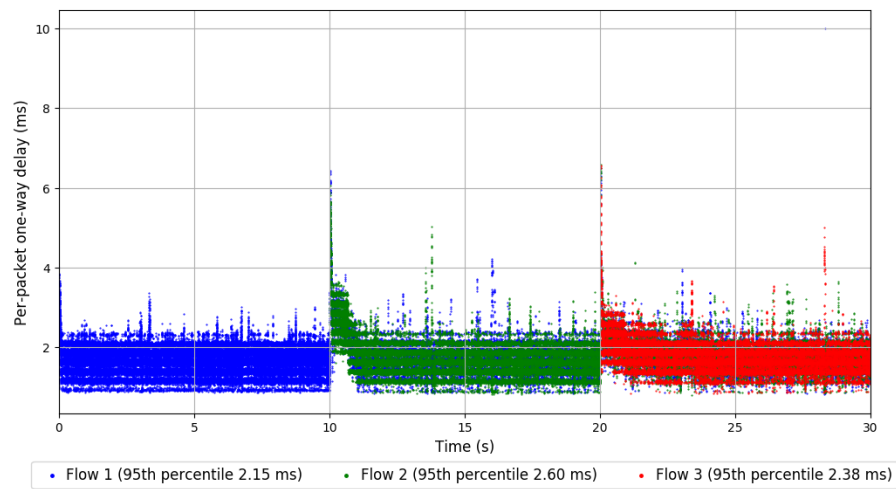
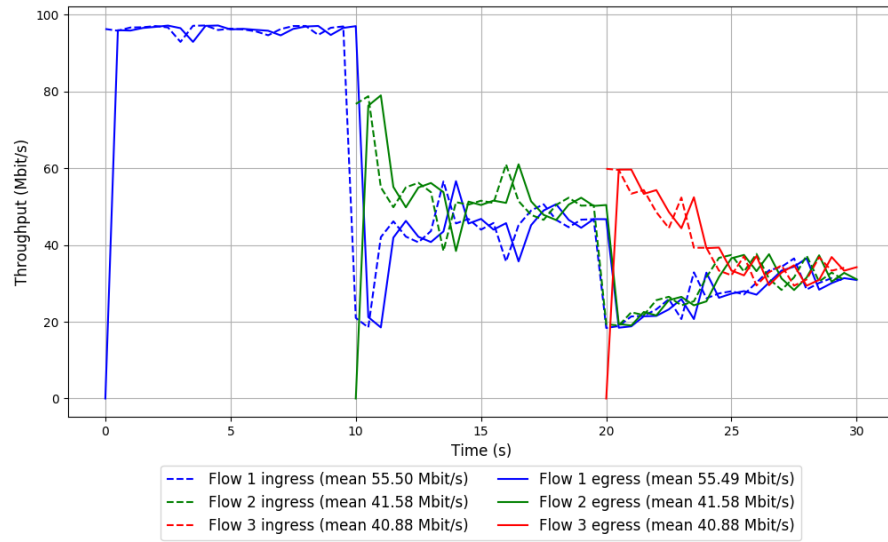


Run 3: Statistics of TCP Vegas

Start at: 2019-10-02 23:51:53  
End at: 2019-10-02 23:52:23  
Local clock offset: -6.814 ms  
Remote clock offset: -0.249 ms

# Below is generated by plot.py at 2019-10-03 01:07:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.79 Mbit/s  
95th percentile per-packet one-way delay: 2.345 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 55.49 Mbit/s  
95th percentile per-packet one-way delay: 2.151 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 41.58 Mbit/s  
95th percentile per-packet one-way delay: 2.605 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 40.88 Mbit/s  
95th percentile per-packet one-way delay: 2.379 ms  
Loss rate: 0.00%

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



Run 4: Statistics of TCP Vegas

Start at: 2019-10-03 00:19:09

End at: 2019-10-03 00:19:39

Local clock offset: -7.21 ms

Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2019-10-03 01:07:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.44 Mbit/s

95th percentile per-packet one-way delay: 2.428 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.79 Mbit/s

95th percentile per-packet one-way delay: 2.210 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.26 Mbit/s

95th percentile per-packet one-way delay: 2.460 ms

Loss rate: 0.00%

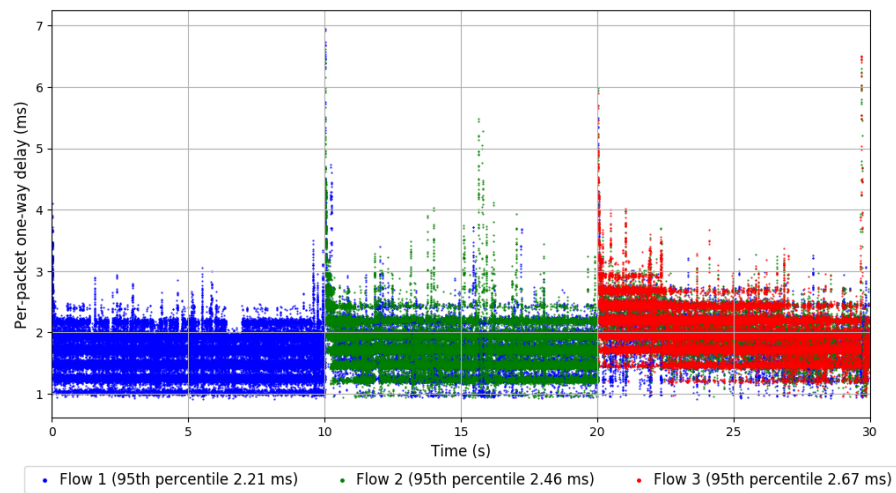
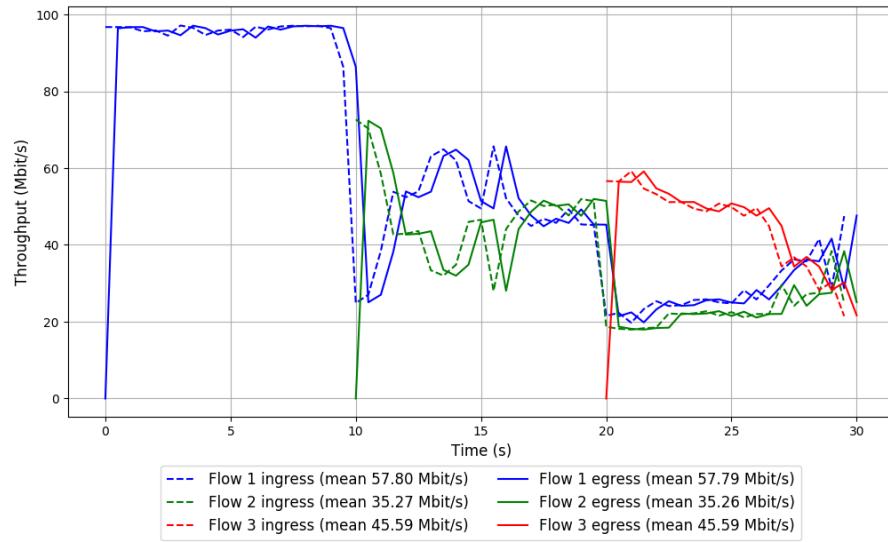
-- Flow 3:

Average throughput: 45.59 Mbit/s

95th percentile per-packet one-way delay: 2.667 ms

Loss rate: 0.00%

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





Run 5: Statistics of TCP Vegas

Start at: 2019-10-03 00:46:30

End at: 2019-10-03 00:47:00

Local clock offset: 5.641 ms

Remote clock offset: 0.045 ms

# Below is generated by plot.py at 2019-10-03 01:07:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.88 Mbit/s

95th percentile per-packet one-way delay: 2.570 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.28 Mbit/s

95th percentile per-packet one-way delay: 2.449 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.78 Mbit/s

95th percentile per-packet one-way delay: 2.426 ms

Loss rate: 0.00%

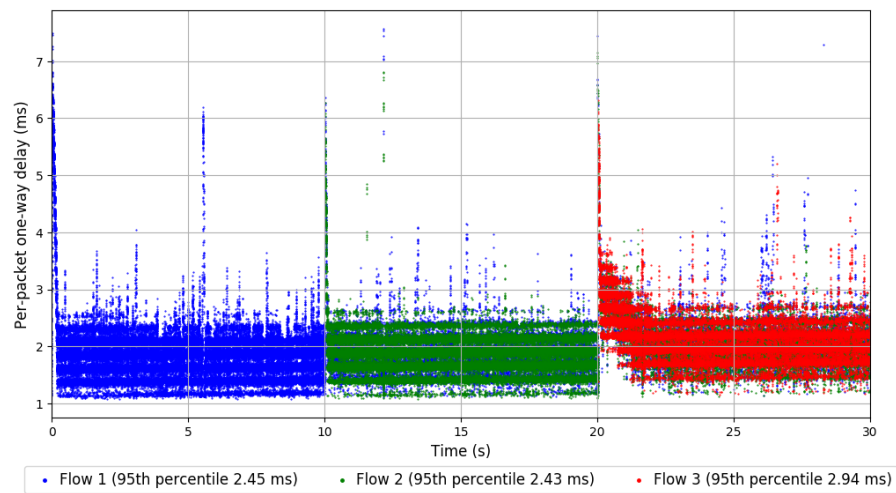
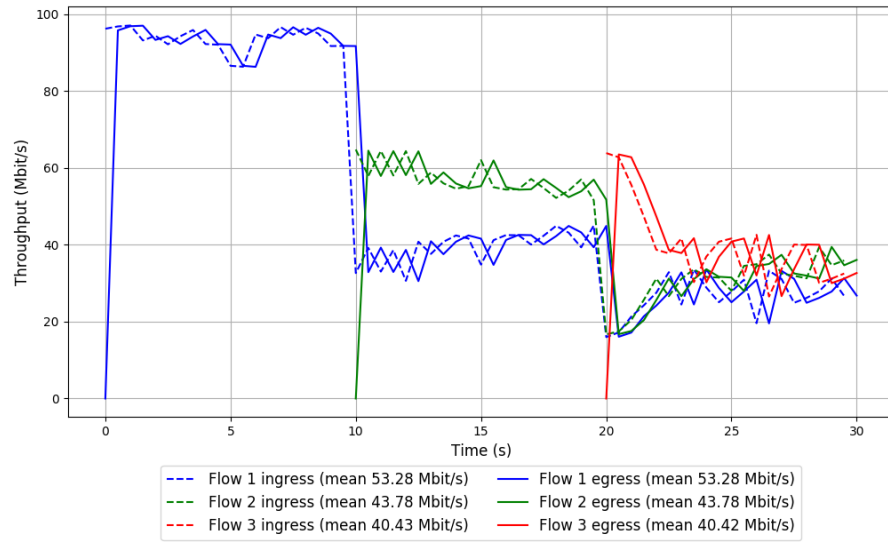
-- Flow 3:

Average throughput: 40.42 Mbit/s

95th percentile per-packet one-way delay: 2.939 ms

Loss rate: 0.00%

# Run 5: Report of TCP Vegas — Data Link

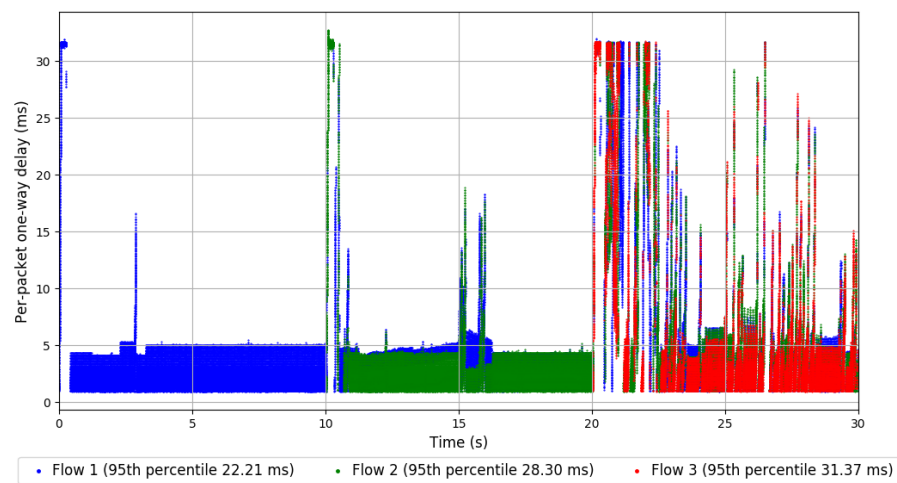
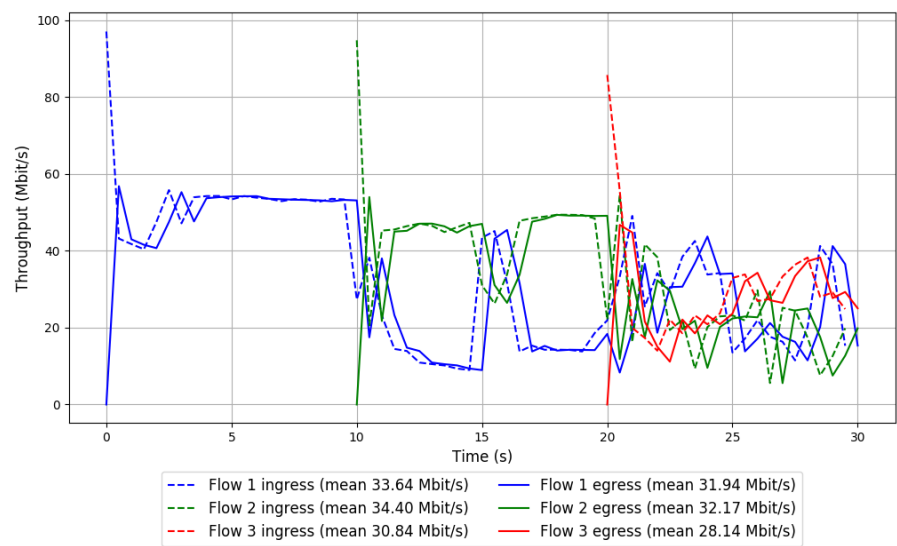


Run 1: Statistics of Verus

Start at: 2019-10-02 22:56:18  
End at: 2019-10-02 22:56:48  
Local clock offset: -5.562 ms  
Remote clock offset: -0.153 ms

# Below is generated by plot.py at 2019-10-03 01:07:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 62.68 Mbit/s  
95th percentile per-packet one-way delay: 27.610 ms  
Loss rate: 6.09%  
-- Flow 1:  
Average throughput: 31.94 Mbit/s  
95th percentile per-packet one-way delay: 22.207 ms  
Loss rate: 5.02%  
-- Flow 2:  
Average throughput: 32.17 Mbit/s  
95th percentile per-packet one-way delay: 28.297 ms  
Loss rate: 6.46%  
-- Flow 3:  
Average throughput: 28.14 Mbit/s  
95th percentile per-packet one-way delay: 31.369 ms  
Loss rate: 8.76%

Run 1: Report of Verus — Data Link

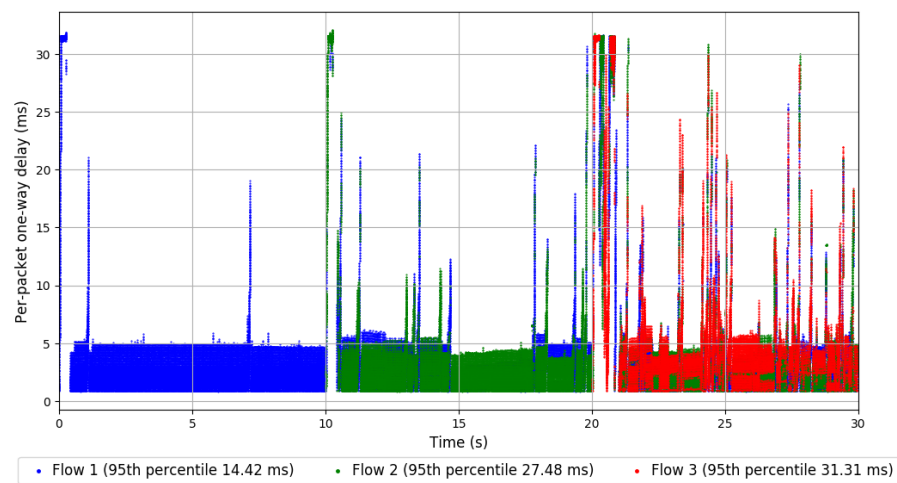
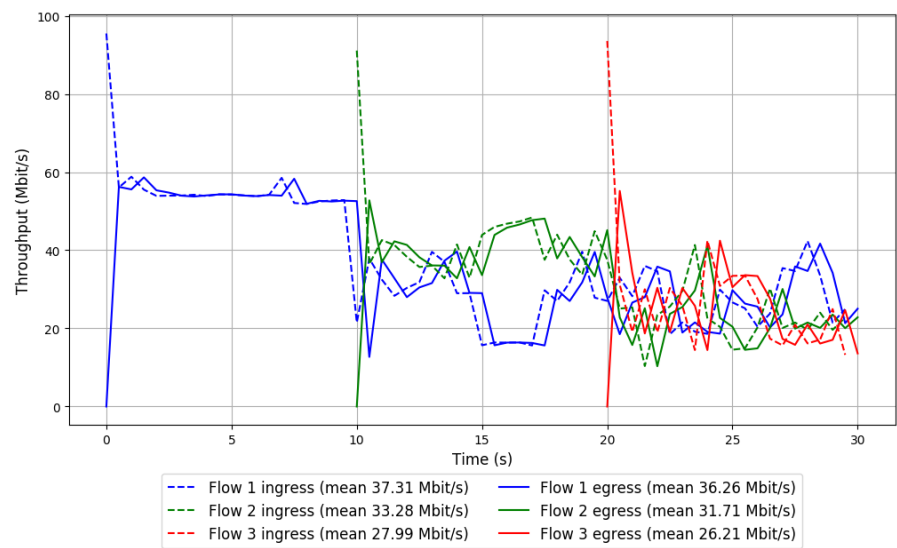


Run 2: Statistics of Verus

Start at: 2019-10-02 23:23:30  
End at: 2019-10-02 23:24:00  
Local clock offset: -5.374 ms  
Remote clock offset: -0.281 ms

# Below is generated by plot.py at 2019-10-03 01:07:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 66.08 Mbit/s  
95th percentile per-packet one-way delay: 22.683 ms  
Loss rate: 3.90%  
-- Flow 1:  
Average throughput: 36.26 Mbit/s  
95th percentile per-packet one-way delay: 14.419 ms  
Loss rate: 2.82%  
-- Flow 2:  
Average throughput: 31.71 Mbit/s  
95th percentile per-packet one-way delay: 27.478 ms  
Loss rate: 4.67%  
-- Flow 3:  
Average throughput: 26.21 Mbit/s  
95th percentile per-packet one-way delay: 31.309 ms  
Loss rate: 6.34%

Run 2: Report of Verus — Data Link

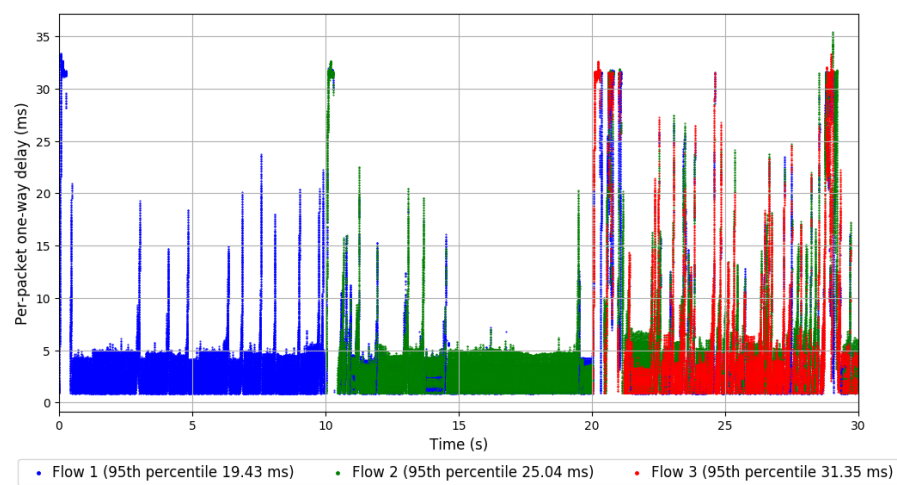
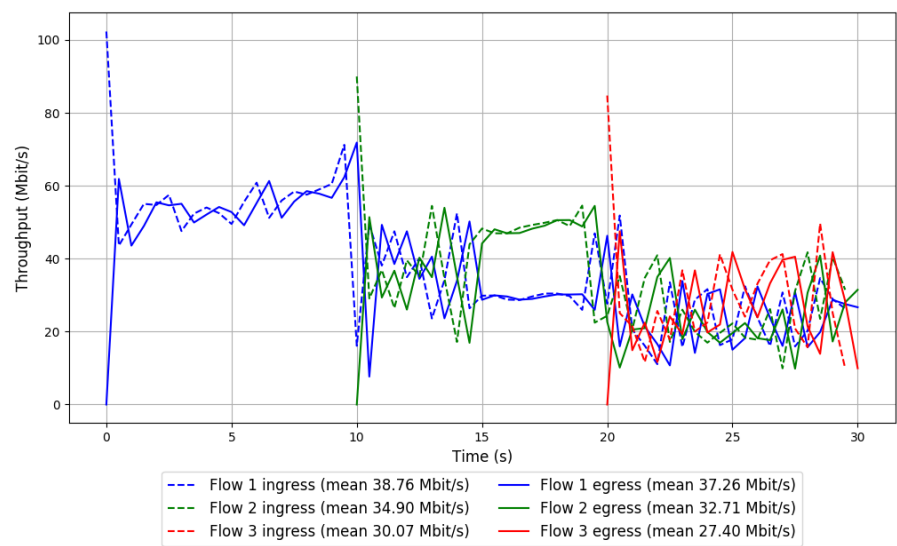


Run 3: Statistics of Verus

Start at: 2019-10-02 23:50:44  
End at: 2019-10-02 23:51:14  
Local clock offset: -6.874 ms  
Remote clock offset: -0.271 ms

# Below is generated by plot.py at 2019-10-03 01:07:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.12 Mbit/s  
95th percentile per-packet one-way delay: 25.003 ms  
Loss rate: 5.33%  
-- Flow 1:  
Average throughput: 37.26 Mbit/s  
95th percentile per-packet one-way delay: 19.435 ms  
Loss rate: 3.87%  
-- Flow 2:  
Average throughput: 32.71 Mbit/s  
95th percentile per-packet one-way delay: 25.039 ms  
Loss rate: 6.25%  
-- Flow 3:  
Average throughput: 27.40 Mbit/s  
95th percentile per-packet one-way delay: 31.350 ms  
Loss rate: 8.86%

Run 3: Report of Verus — Data Link



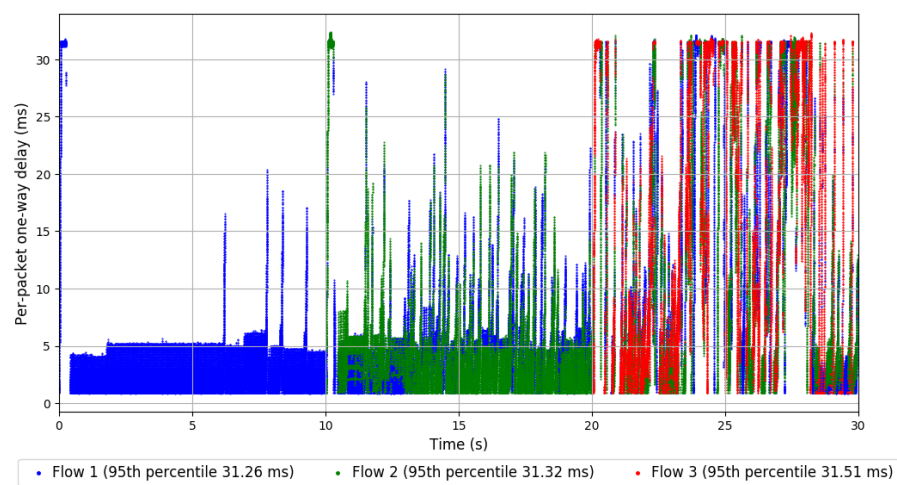
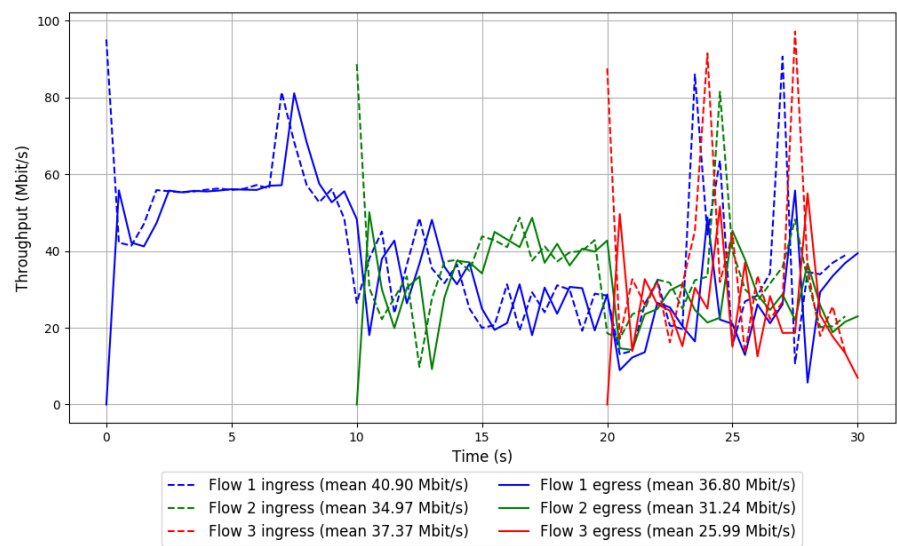


Run 4: Statistics of Verus

Start at: 2019-10-03 00:18:00  
End at: 2019-10-03 00:18:30  
Local clock offset: -7.189 ms  
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2019-10-03 01:08:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 66.19 Mbit/s  
95th percentile per-packet one-way delay: 31.339 ms  
Loss rate: 13.51%  
-- Flow 1:  
Average throughput: 36.80 Mbit/s  
95th percentile per-packet one-way delay: 31.263 ms  
Loss rate: 10.01%  
-- Flow 2:  
Average throughput: 31.24 Mbit/s  
95th percentile per-packet one-way delay: 31.322 ms  
Loss rate: 10.62%  
-- Flow 3:  
Average throughput: 25.99 Mbit/s  
95th percentile per-packet one-way delay: 31.510 ms  
Loss rate: 30.48%

Run 4: Report of Verus — Data Link

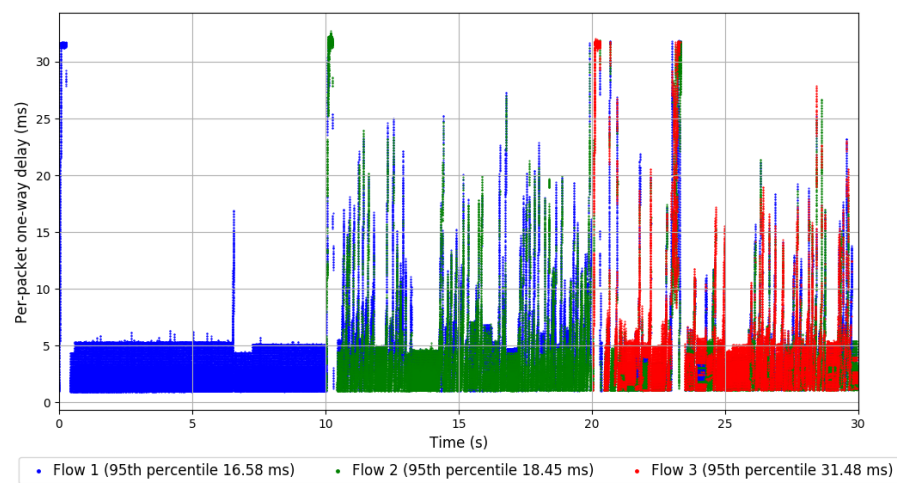
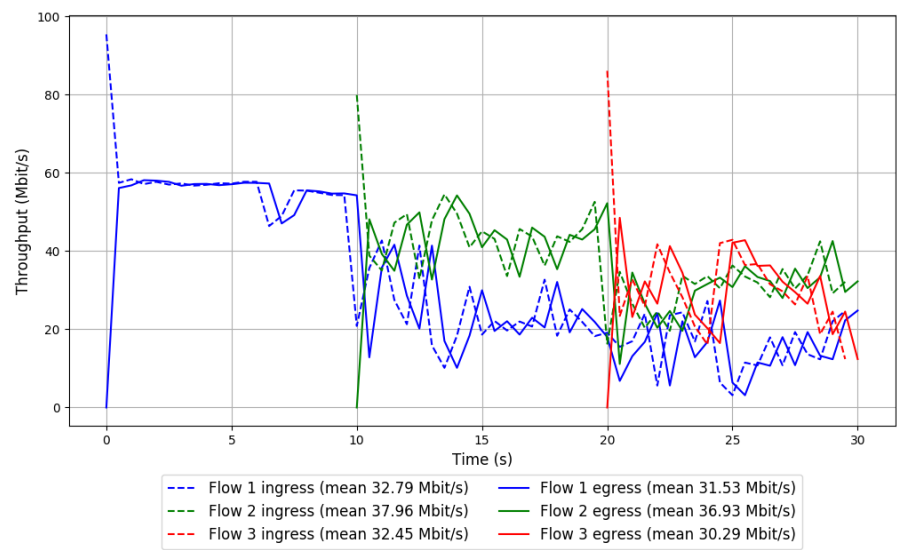


Run 5: Statistics of Verus

Start at: 2019-10-03 00:45:21  
End at: 2019-10-03 00:45:51  
Local clock offset: 5.338 ms  
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2019-10-03 01:08:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 66.16 Mbit/s  
95th percentile per-packet one-way delay: 19.285 ms  
Loss rate: 3.85%  
-- Flow 1:  
Average throughput: 31.53 Mbit/s  
95th percentile per-packet one-way delay: 16.578 ms  
Loss rate: 3.83%  
-- Flow 2:  
Average throughput: 36.93 Mbit/s  
95th percentile per-packet one-way delay: 18.449 ms  
Loss rate: 2.69%  
-- Flow 3:  
Average throughput: 30.29 Mbit/s  
95th percentile per-packet one-way delay: 31.483 ms  
Loss rate: 6.63%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-10-02 22:49:23

End at: 2019-10-02 22:49:53

Local clock offset: -5.586 ms

Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2019-10-03 01:08:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 70.07 Mbit/s

95th percentile per-packet one-way delay: 2.230 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 42.18 Mbit/s

95th percentile per-packet one-way delay: 1.945 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 29.83 Mbit/s

95th percentile per-packet one-way delay: 2.748 ms

Loss rate: 0.00%

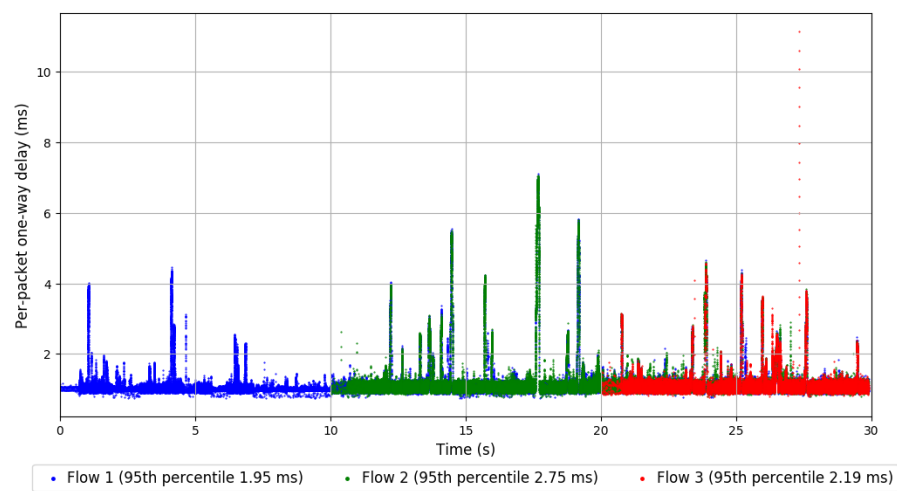
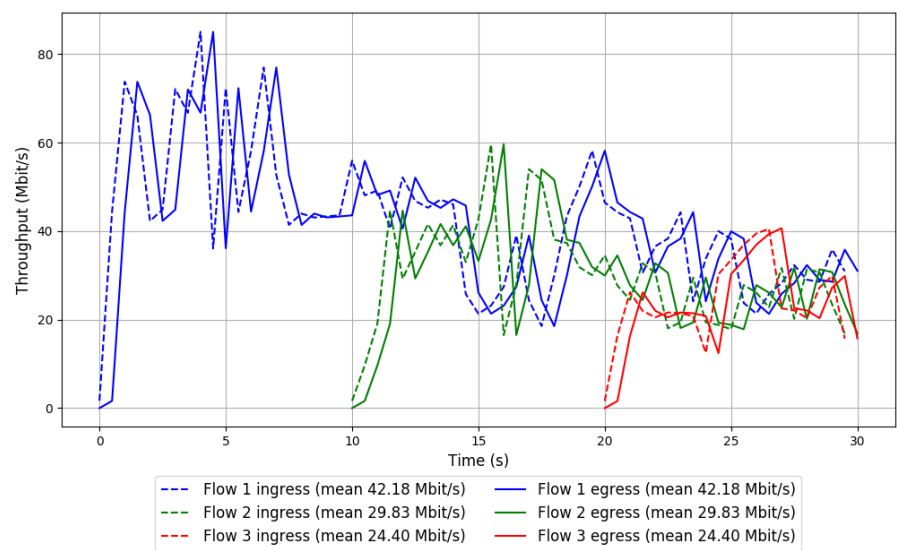
-- Flow 3:

Average throughput: 24.40 Mbit/s

95th percentile per-packet one-way delay: 2.193 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link

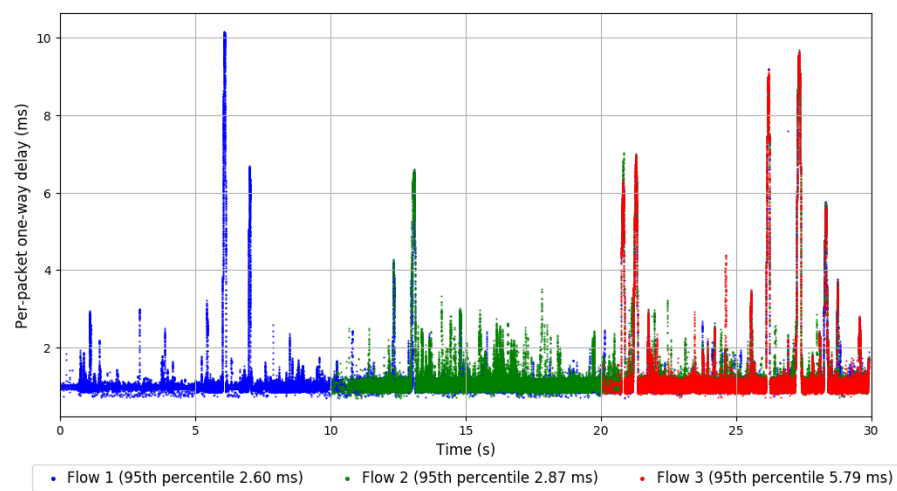
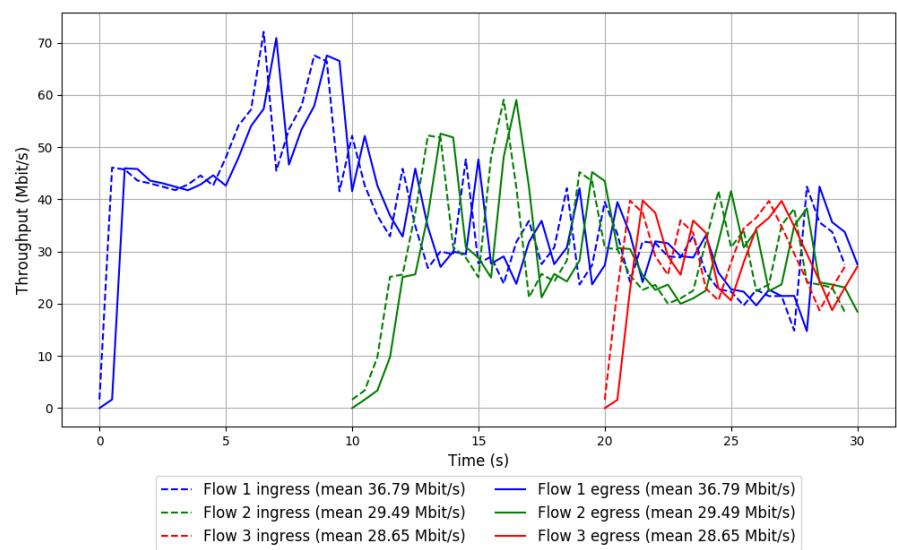


Run 2: Statistics of PCC-Vivace

Start at: 2019-10-02 23:16:39  
End at: 2019-10-02 23:17:09  
Local clock offset: -5.444 ms  
Remote clock offset: -0.293 ms

# Below is generated by plot.py at 2019-10-03 01:08:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 65.86 Mbit/s  
95th percentile per-packet one-way delay: 3.174 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 36.79 Mbit/s  
95th percentile per-packet one-way delay: 2.595 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 29.49 Mbit/s  
95th percentile per-packet one-way delay: 2.873 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 28.65 Mbit/s  
95th percentile per-packet one-way delay: 5.793 ms  
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



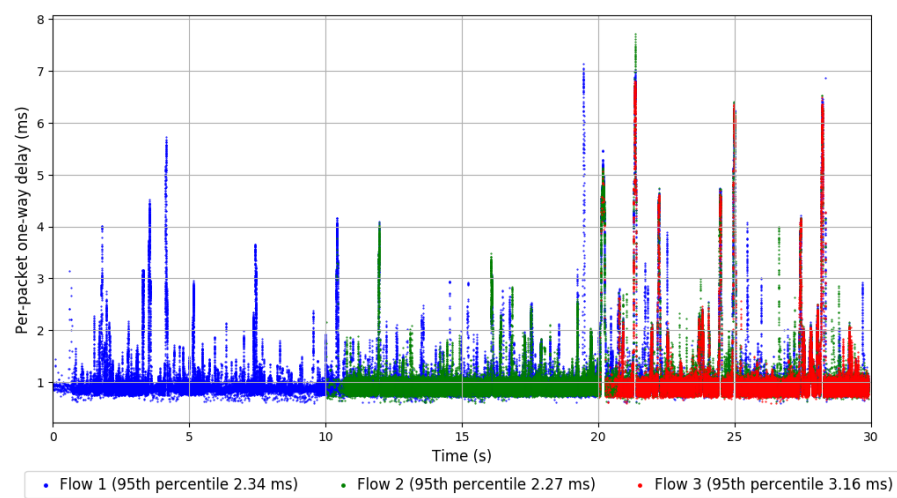
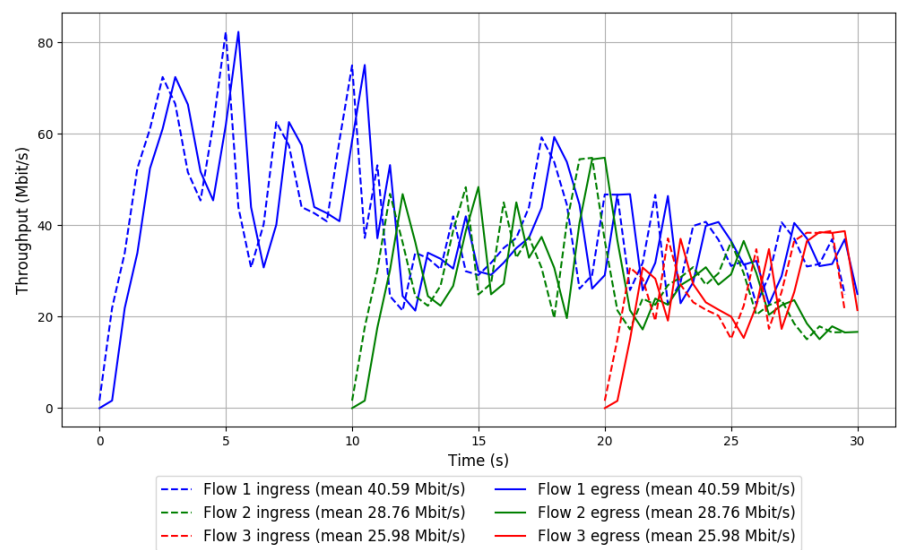


Run 3: Statistics of PCC-Vivace

Start at: 2019-10-02 23:43:51  
End at: 2019-10-02 23:44:21  
Local clock offset: -6.623 ms  
Remote clock offset: -0.306 ms

# Below is generated by plot.py at 2019-10-03 01:08:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.29 Mbit/s  
95th percentile per-packet one-way delay: 2.386 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 40.59 Mbit/s  
95th percentile per-packet one-way delay: 2.343 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 28.76 Mbit/s  
95th percentile per-packet one-way delay: 2.269 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 25.98 Mbit/s  
95th percentile per-packet one-way delay: 3.157 ms  
Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link

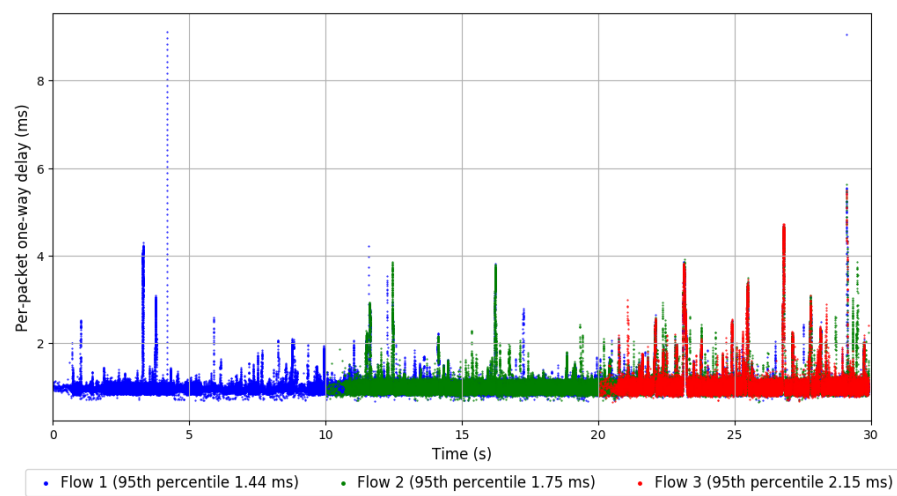
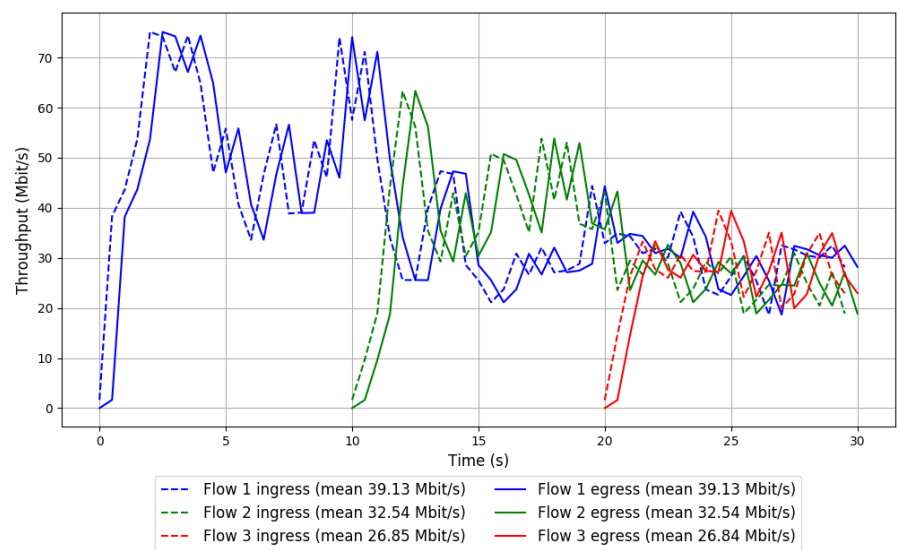


Run 4: Statistics of PCC-Vivace

Start at: 2019-10-03 00:11:04  
End at: 2019-10-03 00:11:34  
Local clock offset: -7.114 ms  
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2019-10-03 01:08:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.64 Mbit/s  
95th percentile per-packet one-way delay: 1.652 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 39.13 Mbit/s  
95th percentile per-packet one-way delay: 1.444 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 32.54 Mbit/s  
95th percentile per-packet one-way delay: 1.745 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 26.84 Mbit/s  
95th percentile per-packet one-way delay: 2.153 ms  
Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link

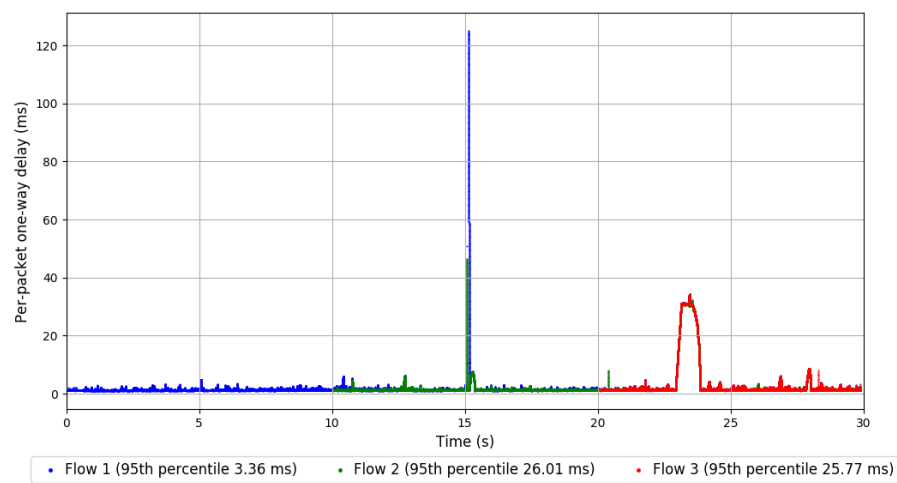
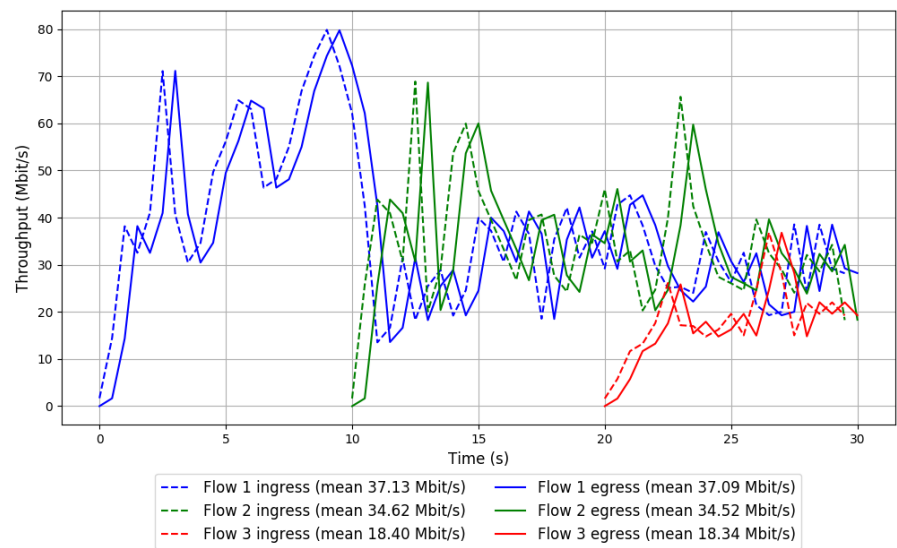


Run 5: Statistics of PCC-Vivace

Start at: 2019-10-03 00:38:20  
End at: 2019-10-03 00:38:50  
Local clock offset: 2.977 ms  
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2019-10-03 01:08:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 66.10 Mbit/s  
95th percentile per-packet one-way delay: 7.332 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 37.09 Mbit/s  
95th percentile per-packet one-way delay: 3.356 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 34.52 Mbit/s  
95th percentile per-packet one-way delay: 26.010 ms  
Loss rate: 0.29%  
-- Flow 3:  
Average throughput: 18.34 Mbit/s  
95th percentile per-packet one-way delay: 25.769 ms  
Loss rate: 0.32%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-10-02 22:42:38

End at: 2019-10-02 22:43:08

Local clock offset: -5.582 ms

Remote clock offset: -0.29 ms

# Below is generated by plot.py at 2019-10-03 01:08:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 3.360 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 3.584 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 3.144 ms

Loss rate: 0.00%

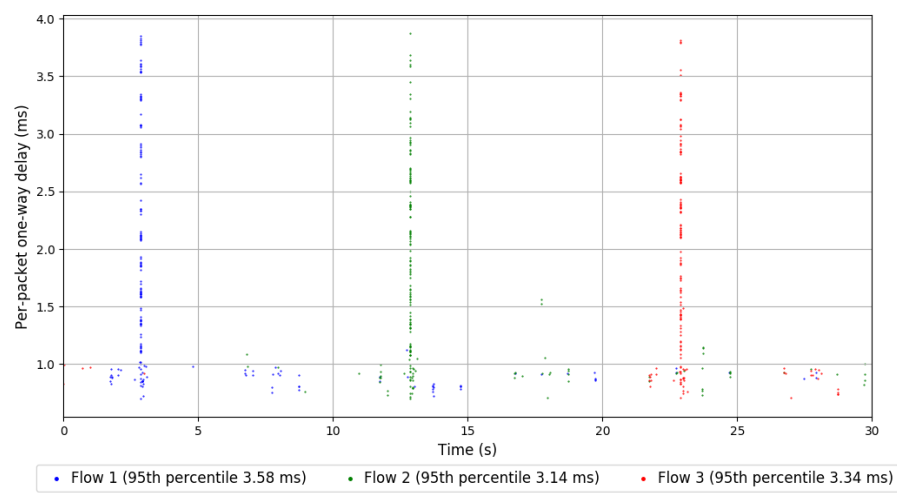
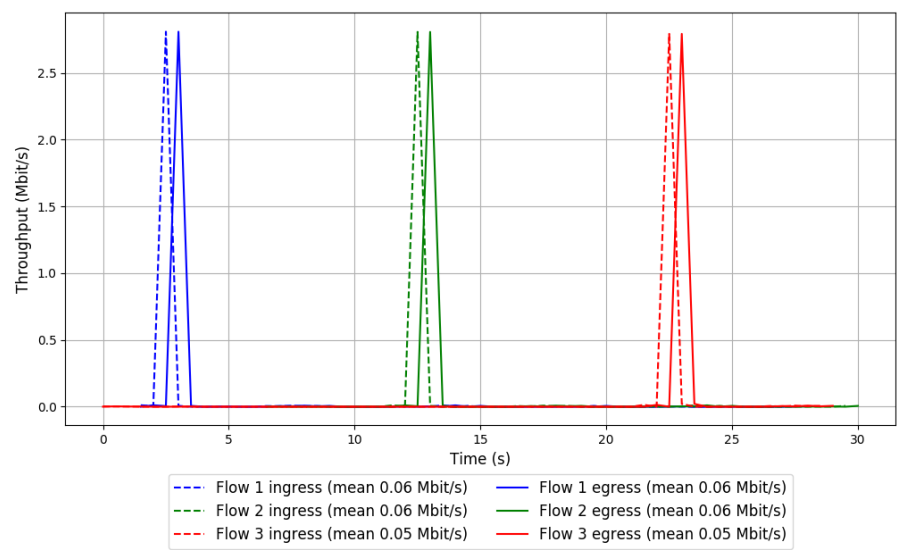
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 3.341 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



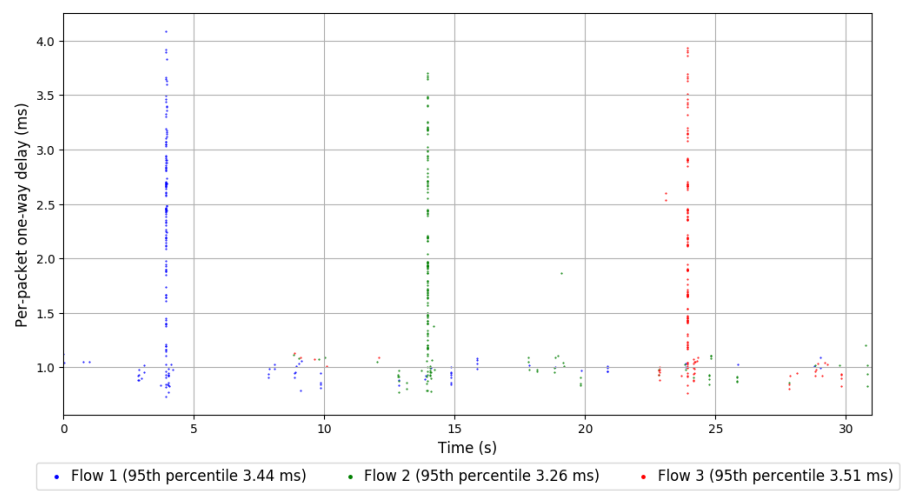
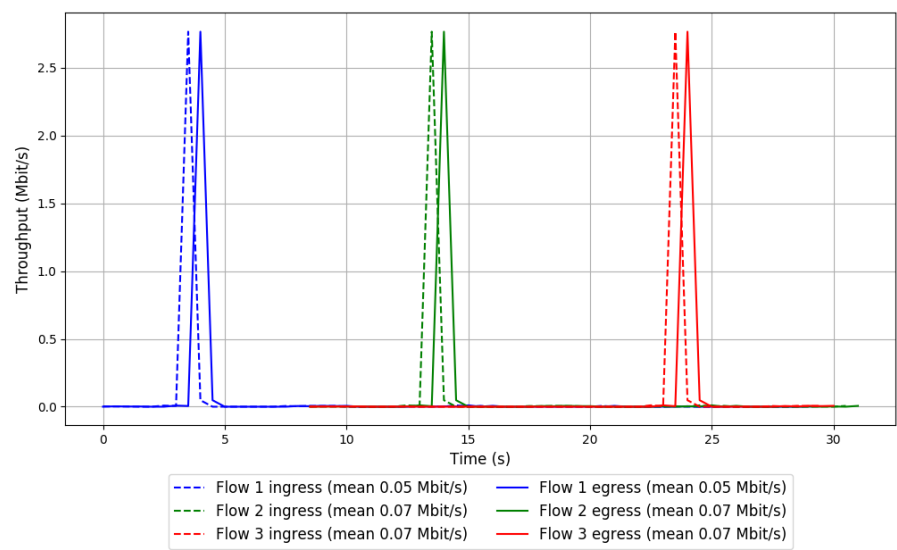


Run 2: Statistics of WebRTC media

Start at: 2019-10-02 23:09:54  
End at: 2019-10-02 23:10:24  
Local clock offset: -5.504 ms  
Remote clock offset: -0.315 ms

# Below is generated by plot.py at 2019-10-03 01:08:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 3.442 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 3.442 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 3.257 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 3.510 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-10-02 23:37:07

End at: 2019-10-02 23:37:37

Local clock offset: -6.389 ms

Remote clock offset: -0.25 ms

# Below is generated by plot.py at 2019-10-03 01:08:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 3.545 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 3.520 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 3.584 ms

Loss rate: 0.00%

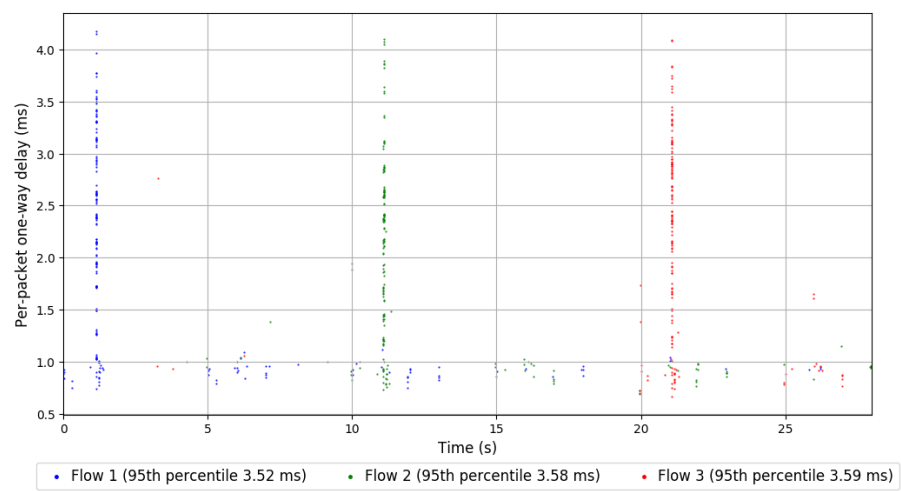
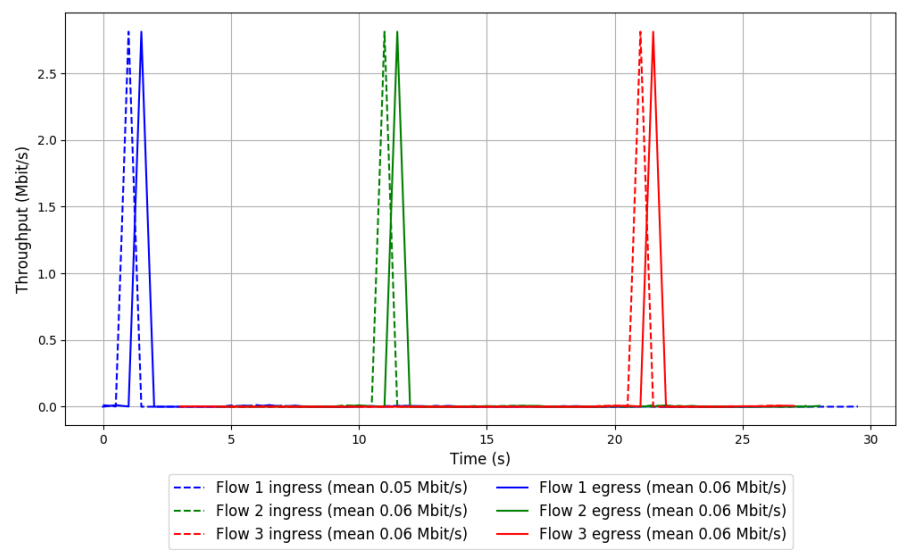
-- Flow 3:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 3.592 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

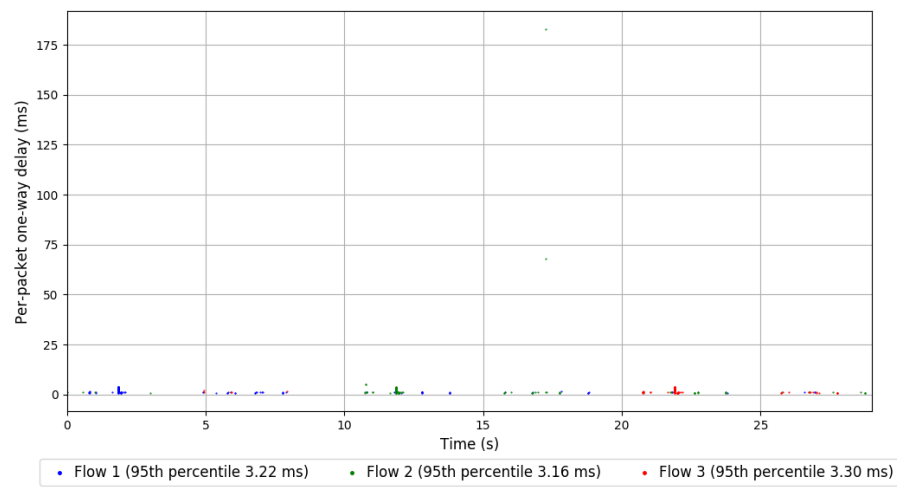
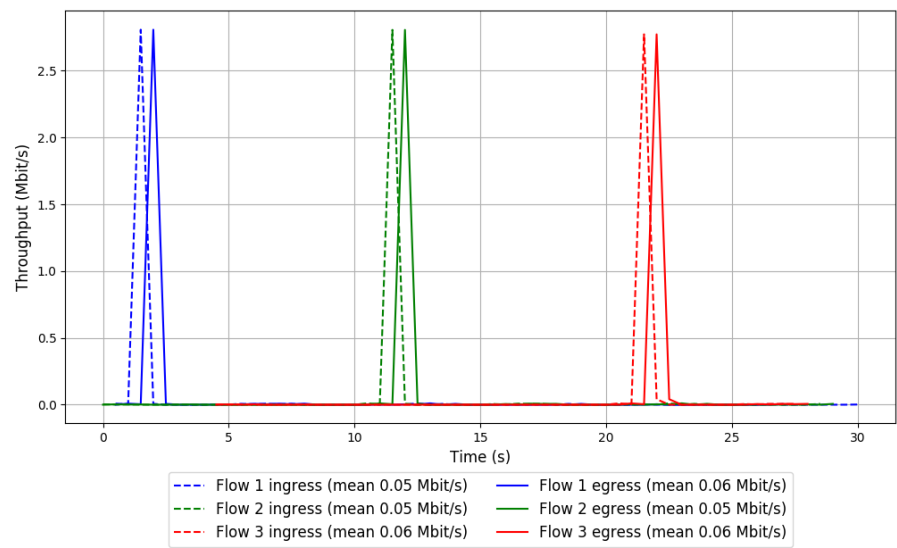


Run 4: Statistics of WebRTC media

Start at: 2019-10-03 00:04:20  
End at: 2019-10-03 00:04:50  
Local clock offset: -7.007 ms  
Remote clock offset: -0.179 ms

# Below is generated by plot.py at 2019-10-03 01:08:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 3.290 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 3.216 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 3.160 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 3.304 ms  
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-10-03 00:31:35  
End at: 2019-10-03 00:32:05  
Local clock offset: -0.707 ms  
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2019-10-03 01:08:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 3.981 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 3.712 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 3.987 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 4.209 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

