

## Pantheon Report

Generated at 2019-09-19 01:16:31 (UTC).

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

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:

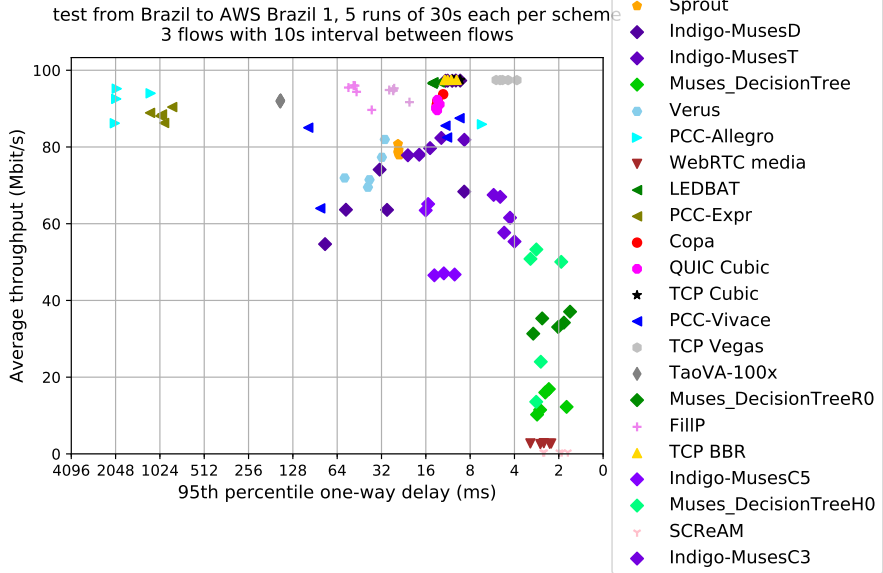
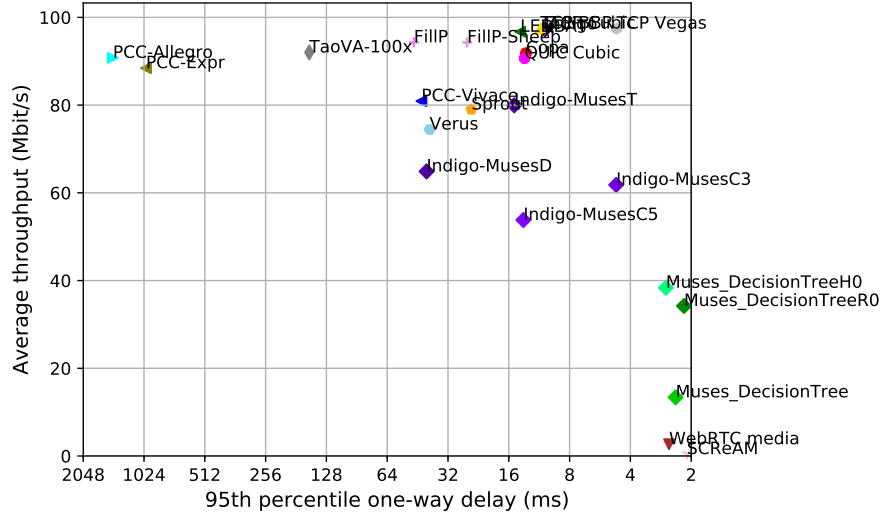
```
Linux 4.15.0-1045-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### 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 Brazil to AWS Brazil 1, 5 runs of 30s each per scheme  
3 flows with 10s interval between flows (mean of all runs by scheme)



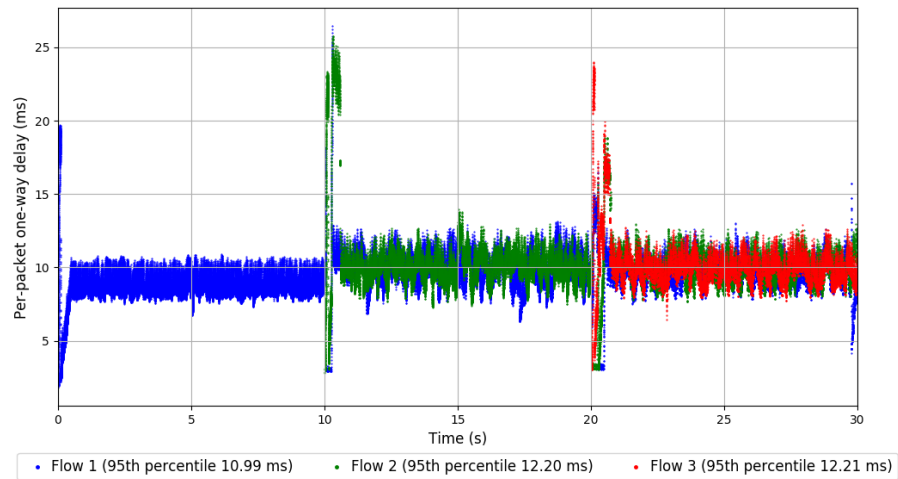
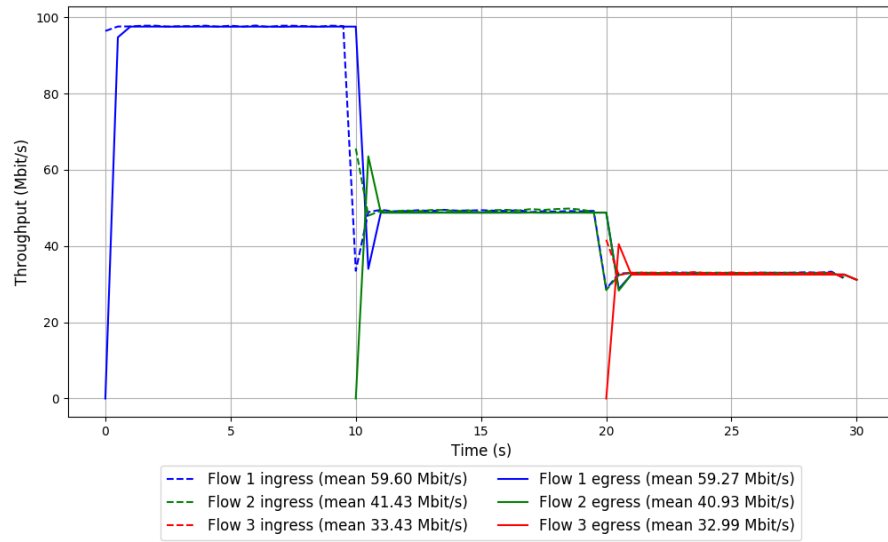
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	59.27	40.92	32.98	10.64	11.69	12.10	0.47	0.97	1.30
Copa	5	54.88	39.55	31.94	12.13	14.43	14.09	0.04	0.09	0.14
TCP Cubic	5	59.61	40.65	32.49	9.81	10.08	10.24	0.08	0.14	0.24
FillP	5	55.31	42.76	31.71	31.32	51.48	49.70	0.15	1.96	1.75
FillP-Sheep	5	58.56	37.64	32.13	23.61	24.35	34.62	0.03	0.03	0.15
Indigo	5	59.65	40.63	32.31	9.47	10.83	8.36	0.03	0.52	0.11
Indigo-MusesC3	5	40.62	25.77	18.61	4.17	4.97	5.00	0.01	0.02	0.10
Indigo-MusesC5	5	28.84	26.30	32.72	11.56	13.19	16.17	0.04	0.07	0.20
Indigo-MusesD	5	39.22	27.07	34.60	15.07	17.34	50.69	0.12	0.15	2.21
Indigo-MusesT	5	51.47	36.20	23.75	13.30	17.07	15.60	0.04	0.11	0.12
LEDBAT	5	58.99	40.53	32.34	13.53	14.39	13.72	0.13	0.23	0.38
Muses_DecisionTree	5	5.19	7.98	9.10	2.39	2.38	2.39	0.02	0.02	0.03
Muses_DecisionTreeH0	5	28.68	7.99	13.72	2.64	2.68	2.78	0.01	0.02	0.03
Muses_DecisionTreeR0	5	25.62	8.86	8.55	2.16	2.20	2.28	0.01	0.02	0.05
PCC-Allegro	5	66.55	25.11	22.86	1560.08	251.74	16.01	7.07	2.98	0.17
PCC-Expr	5	53.70	38.06	28.54	659.97	691.32	152.11	10.62	9.37	1.67
QUIC Cubic	5	53.72	40.07	31.07	13.16	13.09	14.08	0.16	0.32	0.46
SCReAM	5	0.22	0.22	0.22	2.10	2.09	2.09	0.00	0.04	0.14
Sprout	5	42.94	38.22	32.18	23.39	24.43	25.78	0.12	0.13	0.29
TaoVA-100x	5	55.32	39.22	31.82	155.37	155.37	155.60	0.54	1.08	2.74
TCP Vegas	5	52.80	47.45	39.25	3.69	4.22	5.16	0.01	0.02	0.06
Verus	5	38.42	37.59	33.06	35.19	25.33	144.07	0.04	0.25	0.14
PCC-Vivace	5	50.44	32.03	27.78	52.12	37.66	35.86	0.09	0.07	1.80
WebRTC media	5	1.49	0.83	0.37	2.53	2.55	2.78	0.00	0.00	0.07

Run 1: Statistics of TCP BBR

Start at: 2019-09-18 23:02:15  
End at: 2019-09-18 23:02:45  
Local clock offset: -0.092 ms  
Remote clock offset: -2.476 ms

# Below is generated by plot.py at 2019-09-19 01:03:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.49 Mbit/s  
95th percentile per-packet one-way delay: 11.384 ms  
Loss rate: 0.85%  
-- Flow 1:  
Average throughput: 59.27 Mbit/s  
95th percentile per-packet one-way delay: 10.989 ms  
Loss rate: 0.58%  
-- Flow 2:  
Average throughput: 40.93 Mbit/s  
95th percentile per-packet one-way delay: 12.198 ms  
Loss rate: 1.22%  
-- Flow 3:  
Average throughput: 32.99 Mbit/s  
95th percentile per-packet one-way delay: 12.214 ms  
Loss rate: 1.36%

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

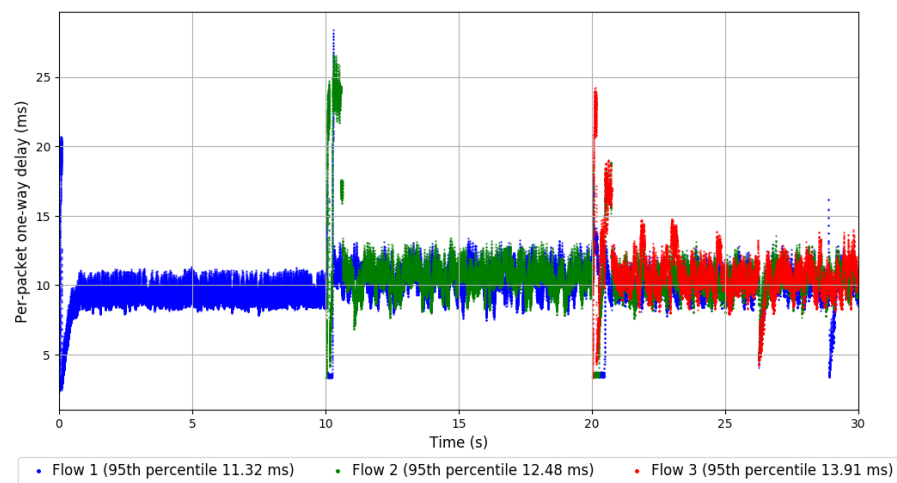
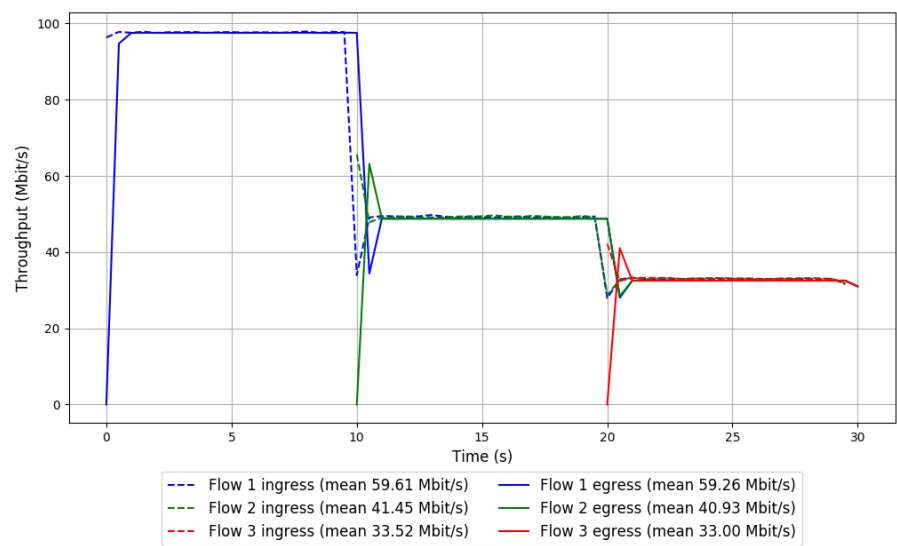


Run 2: Statistics of TCP BBR

Start at: 2019-09-18 23:29:47  
End at: 2019-09-18 23:30:17  
Local clock offset: -8.074 ms  
Remote clock offset: -2.203 ms

# Below is generated by plot.py at 2019-09-19 01:03:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.48 Mbit/s  
95th percentile per-packet one-way delay: 11.917 ms  
Loss rate: 0.90%  
-- Flow 1:  
Average throughput: 59.26 Mbit/s  
95th percentile per-packet one-way delay: 11.319 ms  
Loss rate: 0.60%  
-- Flow 2:  
Average throughput: 40.93 Mbit/s  
95th percentile per-packet one-way delay: 12.484 ms  
Loss rate: 1.27%  
-- Flow 3:  
Average throughput: 33.00 Mbit/s  
95th percentile per-packet one-way delay: 13.913 ms  
Loss rate: 1.63%

Run 2: Report of TCP BBR — Data Link

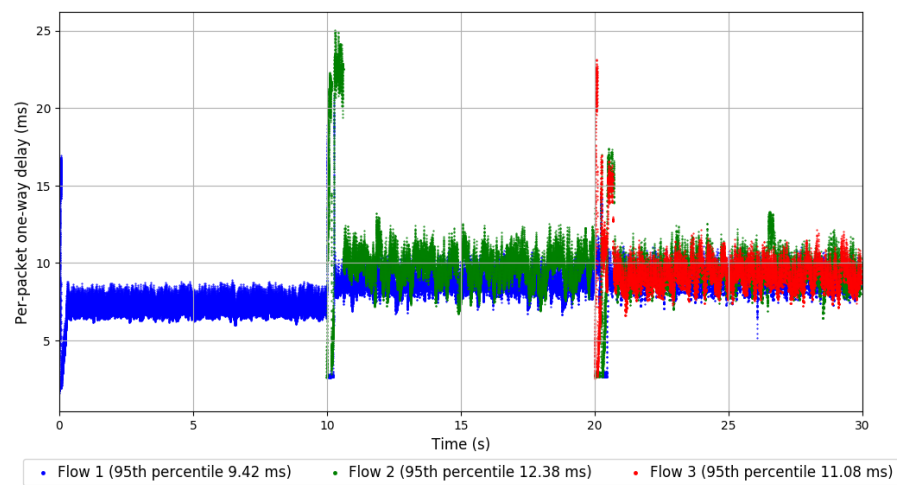
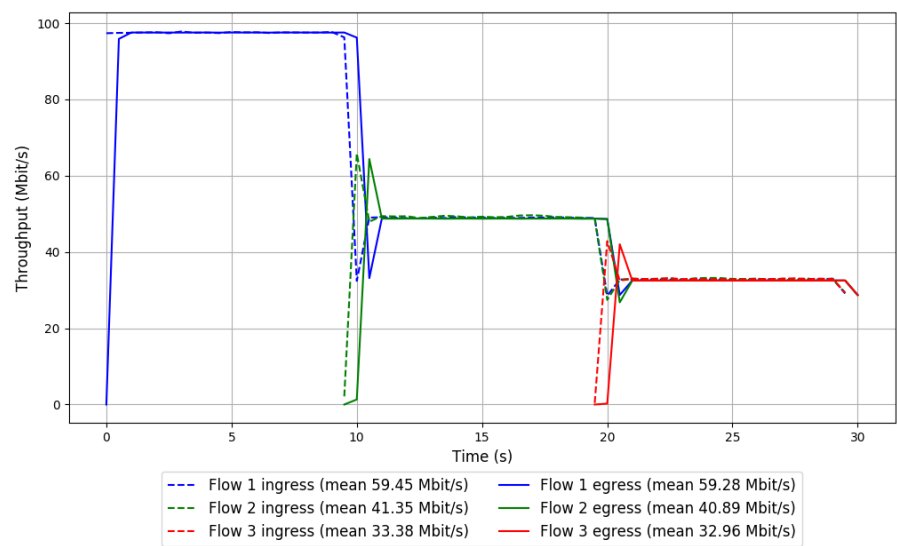


Run 3: Statistics of TCP BBR

Start at: 2019-09-18 23:57:19  
End at: 2019-09-18 23:57:49  
Local clock offset: -12.067 ms  
Remote clock offset: -0.897 ms

# Below is generated by plot.py at 2019-09-19 01:03:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.50 Mbit/s  
95th percentile per-packet one-way delay: 10.757 ms  
Loss rate: 0.65%  
-- Flow 1:  
Average throughput: 59.28 Mbit/s  
95th percentile per-packet one-way delay: 9.417 ms  
Loss rate: 0.30%  
-- Flow 2:  
Average throughput: 40.89 Mbit/s  
95th percentile per-packet one-way delay: 12.383 ms  
Loss rate: 1.16%  
-- Flow 3:  
Average throughput: 32.96 Mbit/s  
95th percentile per-packet one-way delay: 11.078 ms  
Loss rate: 1.31%

Run 3: Report of TCP BBR — Data Link

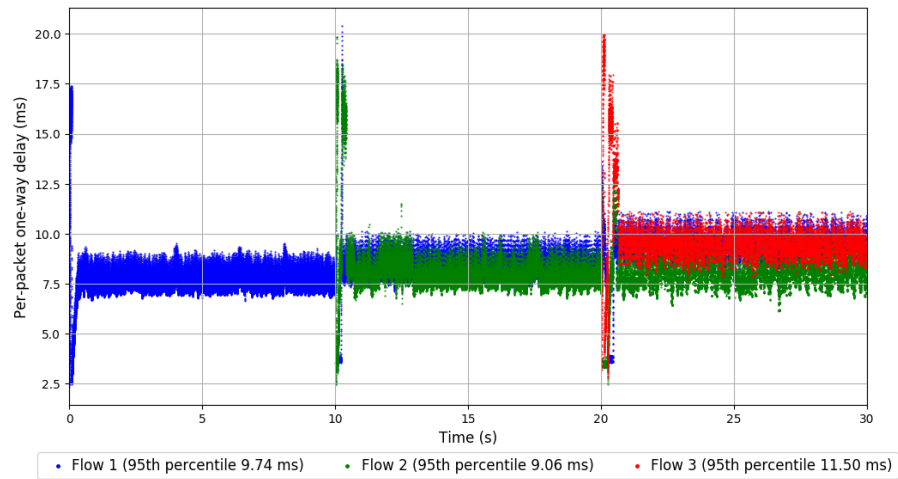
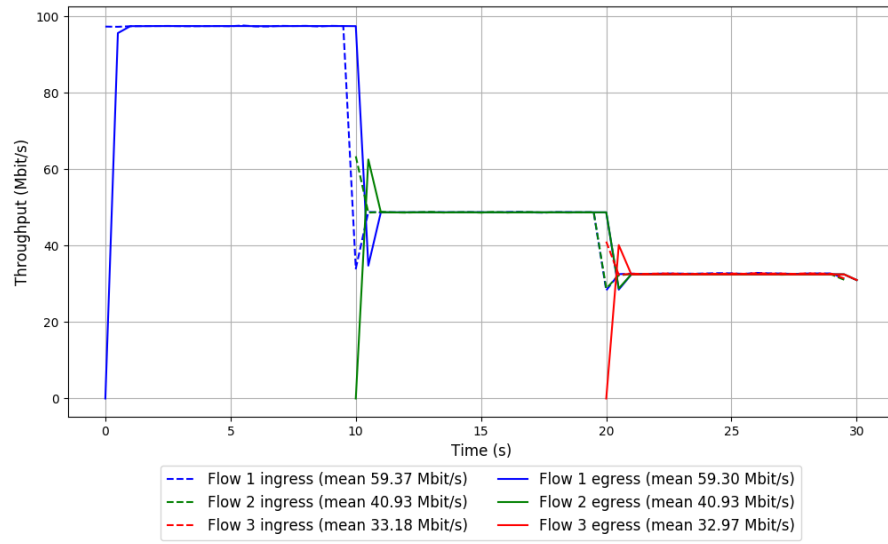


Run 4: Statistics of TCP BBR

Start at: 2019-09-19 00:24:53  
End at: 2019-09-19 00:25:23  
Local clock offset: -7.005 ms  
Remote clock offset: -0.279 ms

# Below is generated by plot.py at 2019-09-19 01:03:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.50 Mbit/s  
95th percentile per-packet one-way delay: 9.881 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 59.30 Mbit/s  
95th percentile per-packet one-way delay: 9.739 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 40.93 Mbit/s  
95th percentile per-packet one-way delay: 9.062 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 32.97 Mbit/s  
95th percentile per-packet one-way delay: 11.497 ms  
Loss rate: 0.68%

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

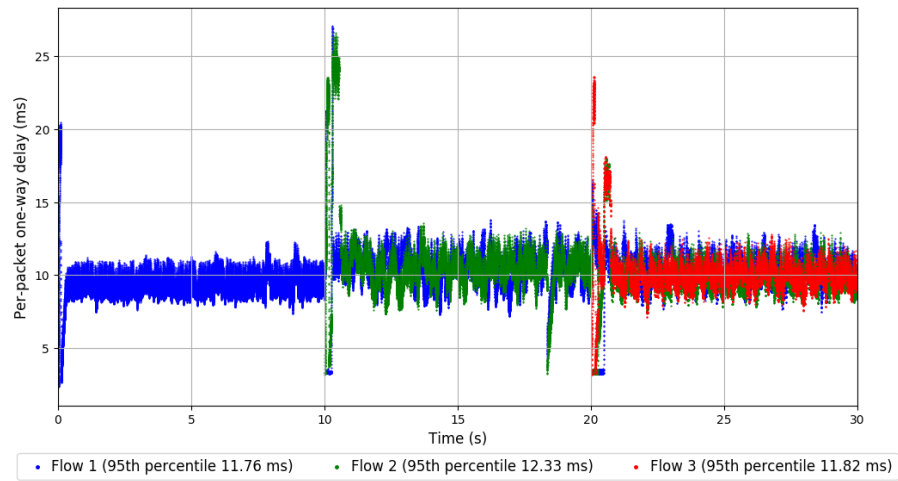
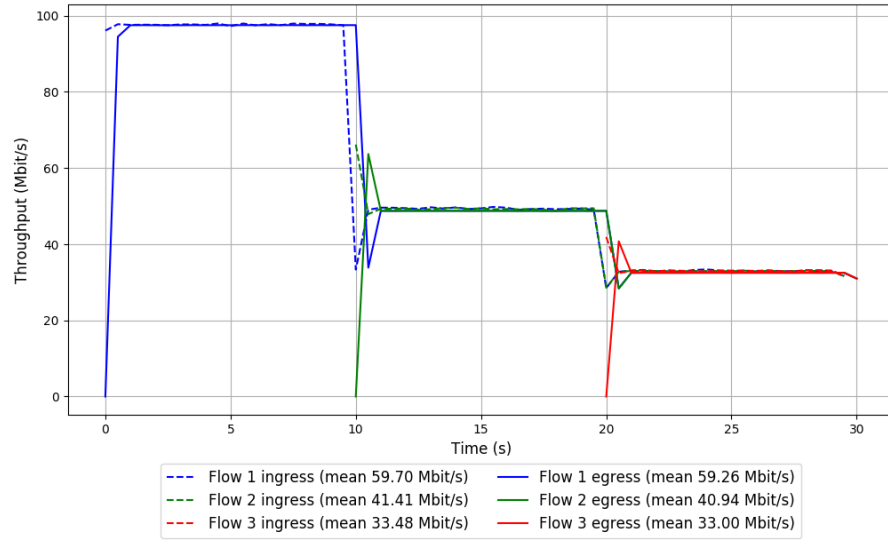


Run 5: Statistics of TCP BBR

Start at: 2019-09-19 00:52:25  
End at: 2019-09-19 00:52:55  
Local clock offset: -3.036 ms  
Remote clock offset: -0.399 ms

# Below is generated by plot.py at 2019-09-19 01:03:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.48 Mbit/s  
95th percentile per-packet one-way delay: 11.896 ms  
Loss rate: 0.96%  
-- Flow 1:  
Average throughput: 59.26 Mbit/s  
95th percentile per-packet one-way delay: 11.760 ms  
Loss rate: 0.75%  
-- Flow 2:  
Average throughput: 40.94 Mbit/s  
95th percentile per-packet one-way delay: 12.334 ms  
Loss rate: 1.18%  
-- Flow 3:  
Average throughput: 33.00 Mbit/s  
95th percentile per-packet one-way delay: 11.817 ms  
Loss rate: 1.51%

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

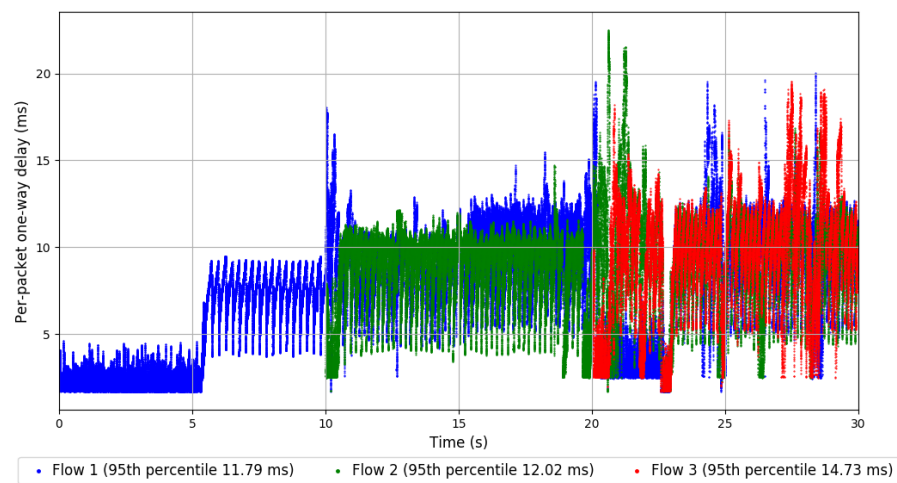
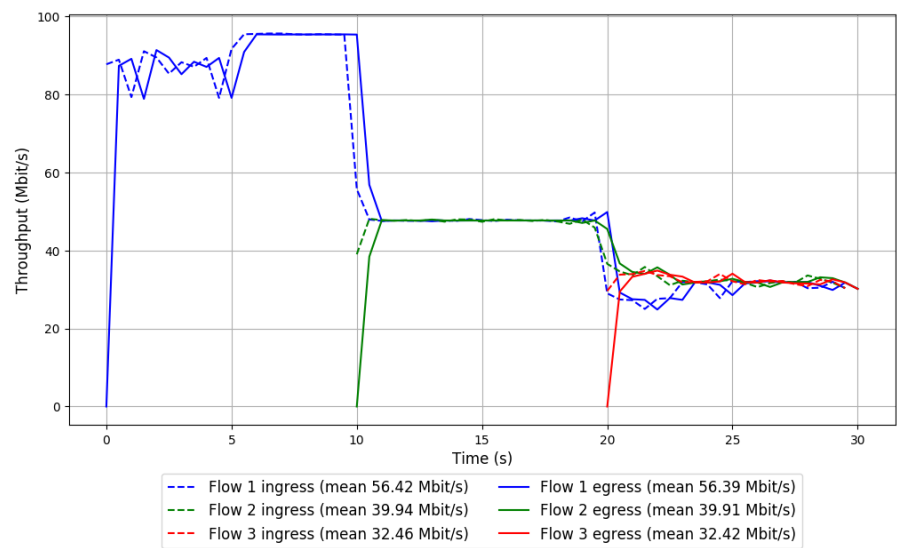


Run 1: Statistics of Copa

Start at: 2019-09-18 22:56:23  
End at: 2019-09-18 22:56:53  
Local clock offset: 1.53 ms  
Remote clock offset: -2.328 ms

# Below is generated by plot.py at 2019-09-19 01:04:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.74 Mbit/s  
95th percentile per-packet one-way delay: 12.197 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 56.39 Mbit/s  
95th percentile per-packet one-way delay: 11.792 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 39.91 Mbit/s  
95th percentile per-packet one-way delay: 12.017 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 32.42 Mbit/s  
95th percentile per-packet one-way delay: 14.733 ms  
Loss rate: 0.16%

Run 1: Report of Copa — Data Link

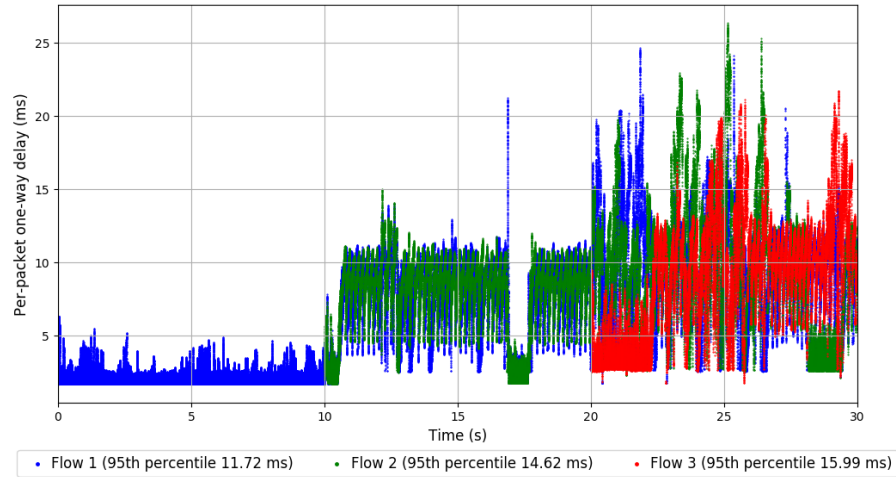
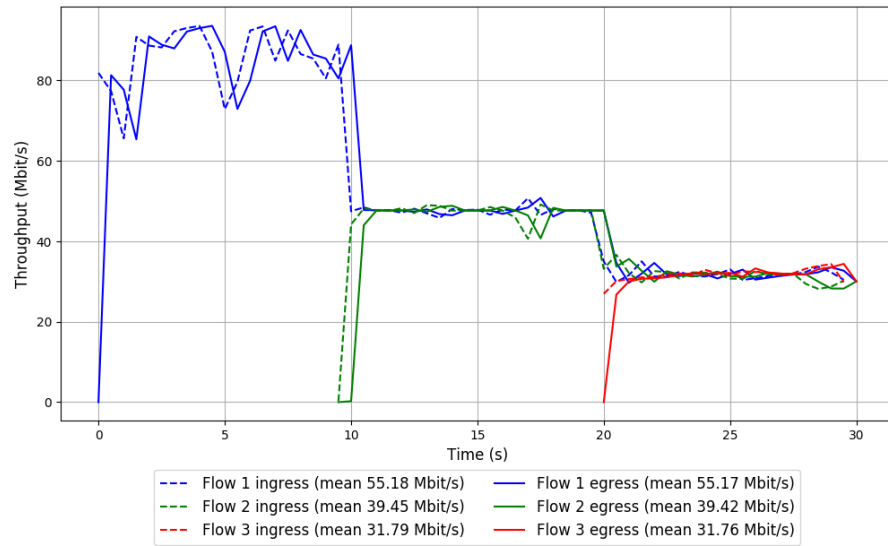


Run 2: Statistics of Copa

Start at: 2019-09-18 23:23:56  
End at: 2019-09-18 23:24:26  
Local clock offset: -7.956 ms  
Remote clock offset: -2.609 ms

# Below is generated by plot.py at 2019-09-19 01:04:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.99 Mbit/s  
95th percentile per-packet one-way delay: 13.351 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 55.17 Mbit/s  
95th percentile per-packet one-way delay: 11.724 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 39.42 Mbit/s  
95th percentile per-packet one-way delay: 14.619 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 31.76 Mbit/s  
95th percentile per-packet one-way delay: 15.995 ms  
Loss rate: 0.15%

## Run 2: Report of Copa — Data Link

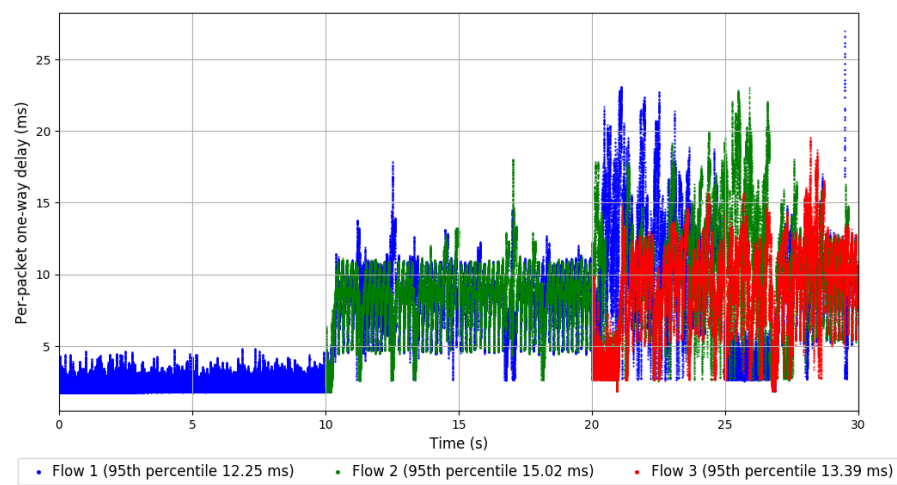
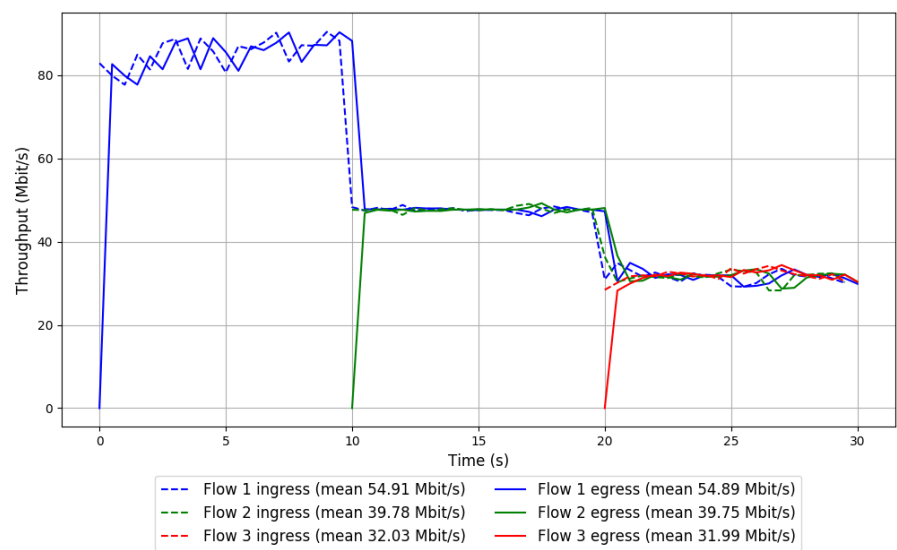


Run 3: Statistics of Copa

Start at: 2019-09-18 23:51:27  
End at: 2019-09-18 23:51:57  
Local clock offset: -11.504 ms  
Remote clock offset: -1.654 ms

# Below is generated by plot.py at 2019-09-19 01:04:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.99 Mbit/s  
95th percentile per-packet one-way delay: 13.317 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 54.89 Mbit/s  
95th percentile per-packet one-way delay: 12.253 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 39.75 Mbit/s  
95th percentile per-packet one-way delay: 15.017 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 31.99 Mbit/s  
95th percentile per-packet one-way delay: 13.394 ms  
Loss rate: 0.15%

Run 3: Report of Copa — Data Link

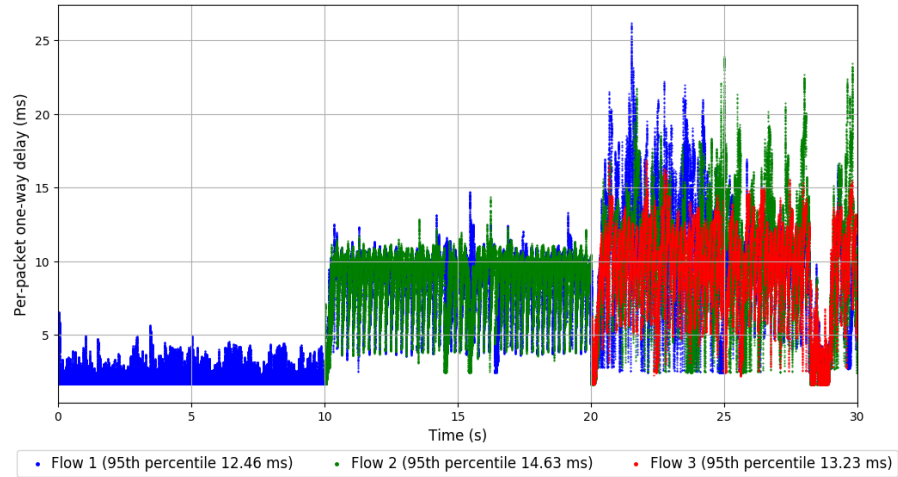
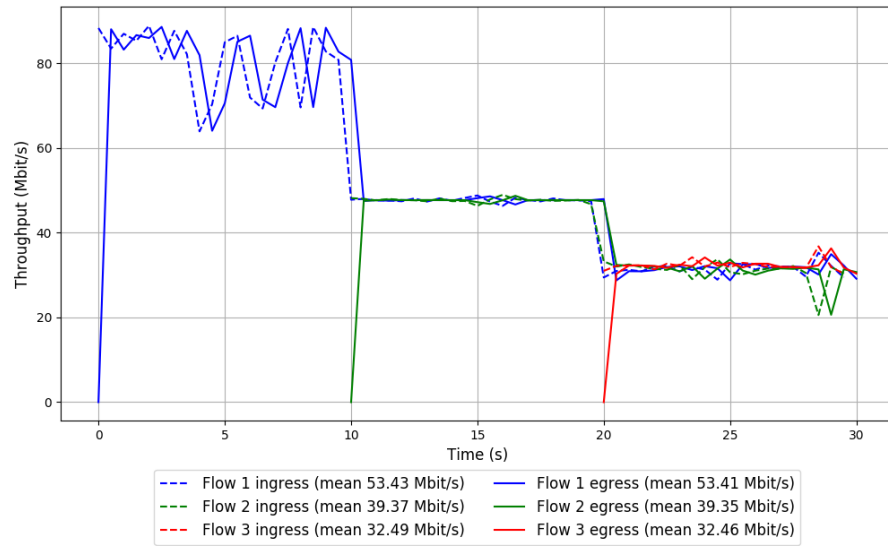


Run 4: Statistics of Copa

Start at: 2019-09-19 00:19:02  
End at: 2019-09-19 00:19:32  
Local clock offset: -7.977 ms  
Remote clock offset: -0.264 ms

# Below is generated by plot.py at 2019-09-19 01:04:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.40 Mbit/s  
95th percentile per-packet one-way delay: 13.432 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 53.41 Mbit/s  
95th percentile per-packet one-way delay: 12.463 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 39.35 Mbit/s  
95th percentile per-packet one-way delay: 14.626 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 32.46 Mbit/s  
95th percentile per-packet one-way delay: 13.235 ms  
Loss rate: 0.14%

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

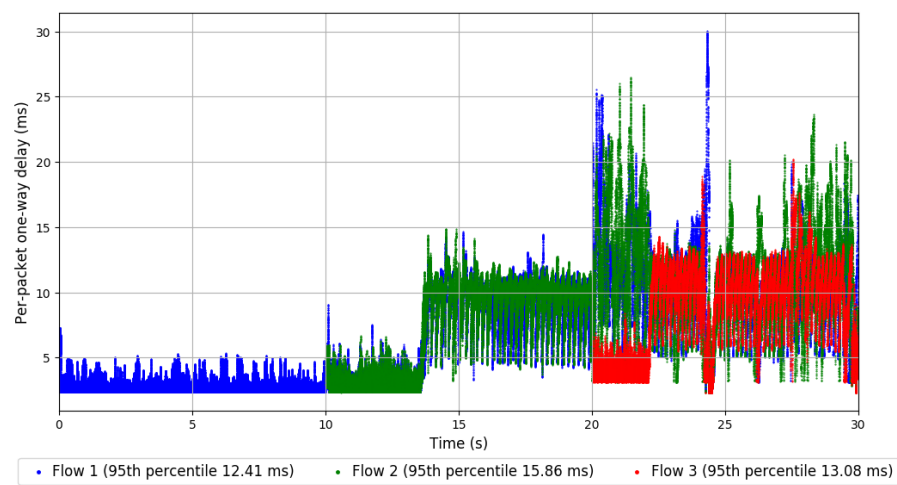
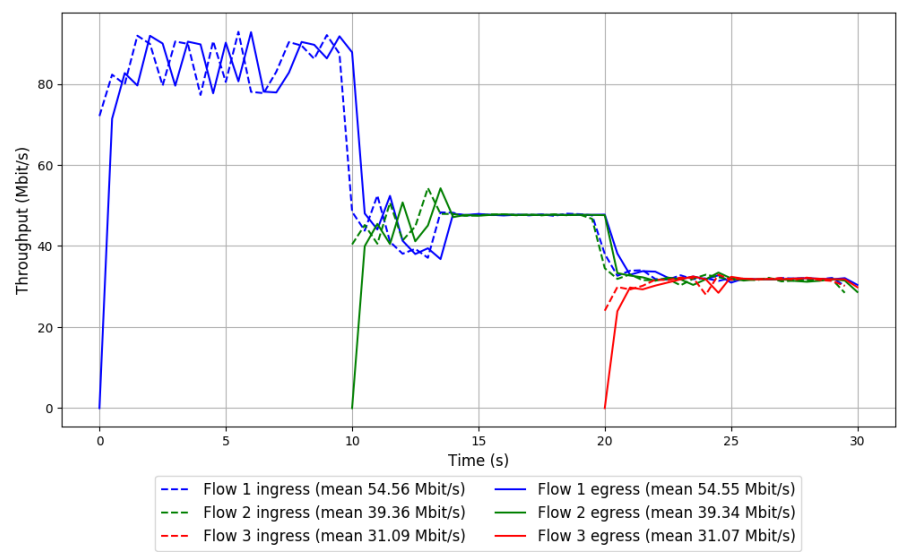


Run 5: Statistics of Copa

Start at: 2019-09-19 00:46:34  
End at: 2019-09-19 00:47:04  
Local clock offset: -3.457 ms  
Remote clock offset: -0.3 ms

# Below is generated by plot.py at 2019-09-19 01:05:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.06 Mbit/s  
95th percentile per-packet one-way delay: 13.478 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 54.55 Mbit/s  
95th percentile per-packet one-way delay: 12.409 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 39.34 Mbit/s  
95th percentile per-packet one-way delay: 15.860 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 31.07 Mbit/s  
95th percentile per-packet one-way delay: 13.084 ms  
Loss rate: 0.09%

Run 5: Report of Copa — Data Link

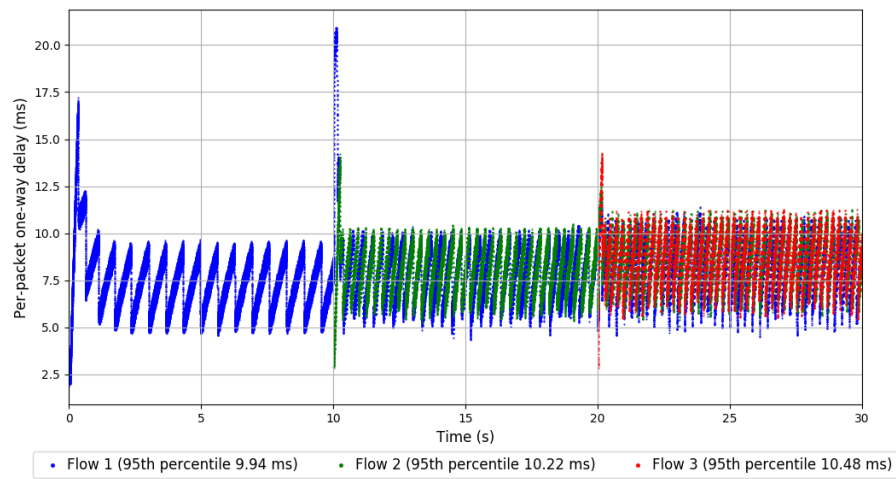
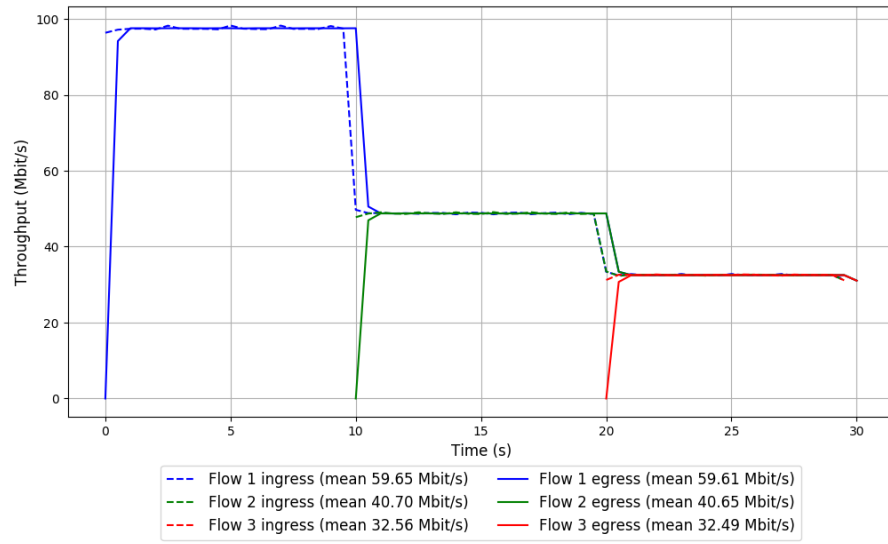


Run 1: Statistics of TCP Cubic

Start at: 2019-09-18 23:09:04  
End at: 2019-09-18 23:09:34  
Local clock offset: -4.006 ms  
Remote clock offset: -2.765 ms

# Below is generated by plot.py at 2019-09-19 01:05:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.47 Mbit/s  
95th percentile per-packet one-way delay: 10.236 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 59.61 Mbit/s  
95th percentile per-packet one-way delay: 9.944 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 40.65 Mbit/s  
95th percentile per-packet one-way delay: 10.223 ms  
Loss rate: 0.15%  
-- Flow 3:  
Average throughput: 32.49 Mbit/s  
95th percentile per-packet one-way delay: 10.484 ms  
Loss rate: 0.26%

# Run 1: Report of TCP Cubic — Data Link

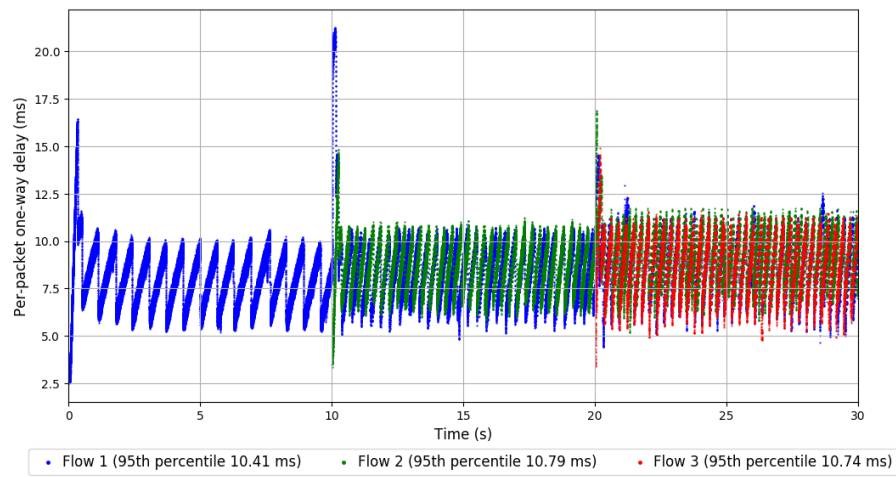
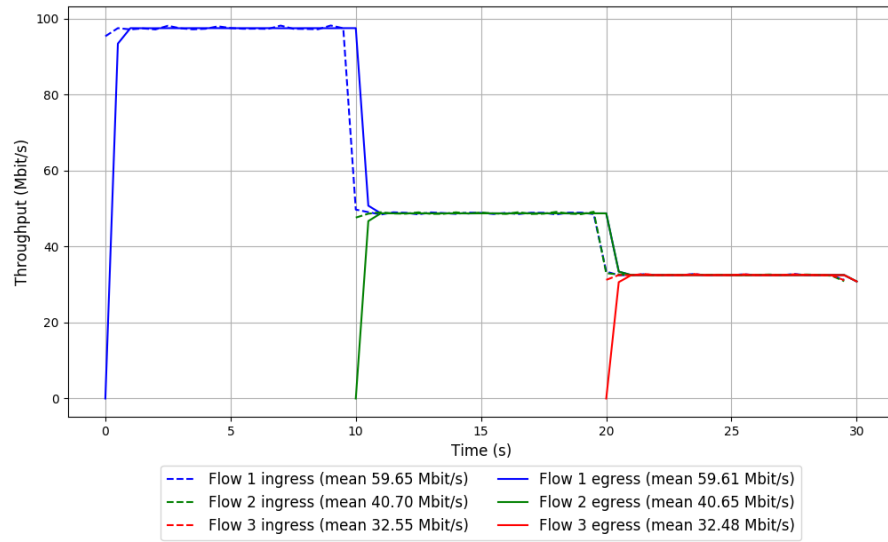


Run 2: Statistics of TCP Cubic

Start at: 2019-09-18 23:36:35  
End at: 2019-09-18 23:37:05  
Local clock offset: -8.884 ms  
Remote clock offset: -1.919 ms

# Below is generated by plot.py at 2019-09-19 01:05:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.47 Mbit/s  
95th percentile per-packet one-way delay: 10.601 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 59.61 Mbit/s  
95th percentile per-packet one-way delay: 10.407 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 40.65 Mbit/s  
95th percentile per-packet one-way delay: 10.791 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 32.48 Mbit/s  
95th percentile per-packet one-way delay: 10.742 ms  
Loss rate: 0.25%

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

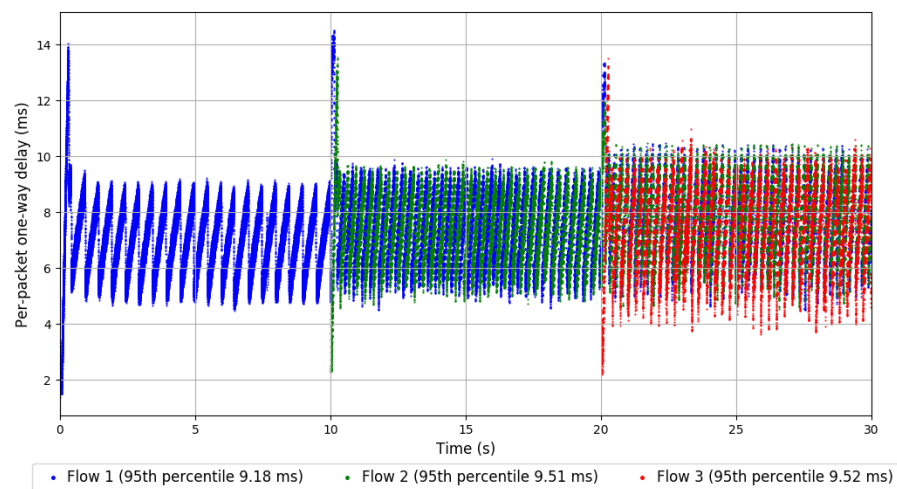
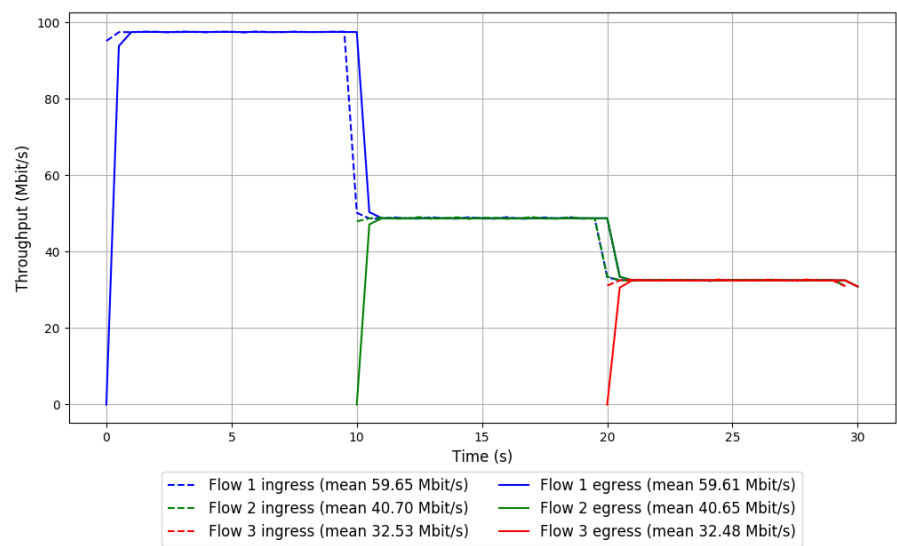


Run 3: Statistics of TCP Cubic

Start at: 2019-09-19 00:04:09  
End at: 2019-09-19 00:04:39  
Local clock offset: -10.649 ms  
Remote clock offset: -0.582 ms

# Below is generated by plot.py at 2019-09-19 01:05:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.47 Mbit/s  
95th percentile per-packet one-way delay: 9.339 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 59.61 Mbit/s  
95th percentile per-packet one-way delay: 9.183 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 40.65 Mbit/s  
95th percentile per-packet one-way delay: 9.514 ms  
Loss rate: 0.15%  
-- Flow 3:  
Average throughput: 32.48 Mbit/s  
95th percentile per-packet one-way delay: 9.524 ms  
Loss rate: 0.20%

Run 3: Report of TCP Cubic — Data Link

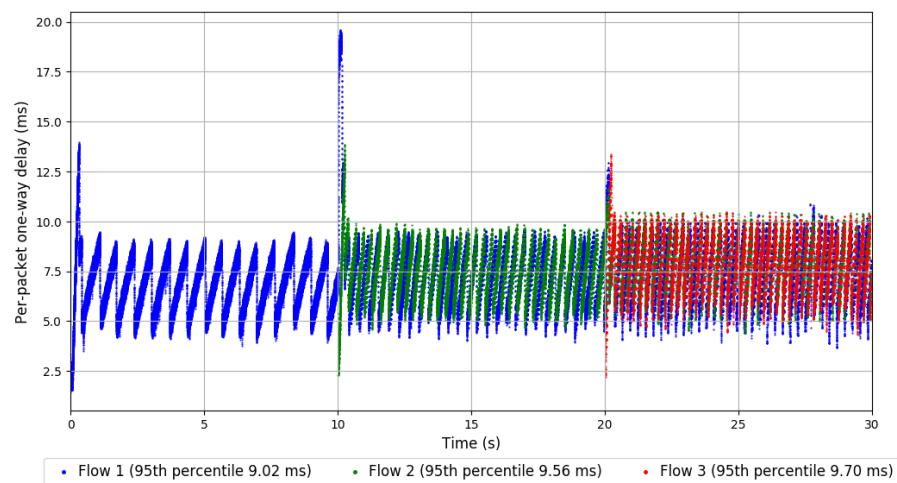
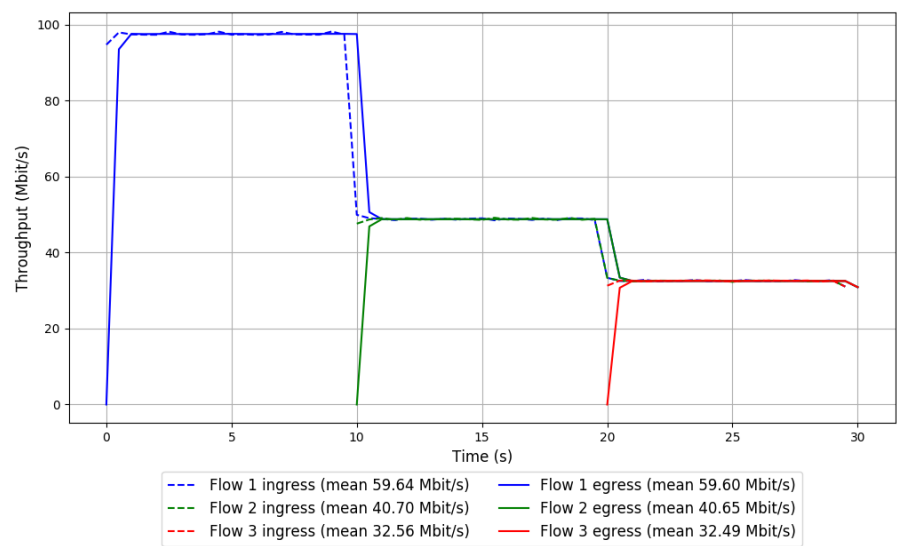


Run 4: Statistics of TCP Cubic

Start at: 2019-09-19 00:31:42  
End at: 2019-09-19 00:32:12  
Local clock offset: -7.205 ms  
Remote clock offset: -0.296 ms

# Below is generated by plot.py at 2019-09-19 01:05:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.46 Mbit/s  
95th percentile per-packet one-way delay: 9.347 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 59.60 Mbit/s  
95th percentile per-packet one-way delay: 9.024 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 40.65 Mbit/s  
95th percentile per-packet one-way delay: 9.562 ms  
Loss rate: 0.15%  
-- Flow 3:  
Average throughput: 32.49 Mbit/s  
95th percentile per-packet one-way delay: 9.700 ms  
Loss rate: 0.24%

Run 4: Report of TCP Cubic — Data Link

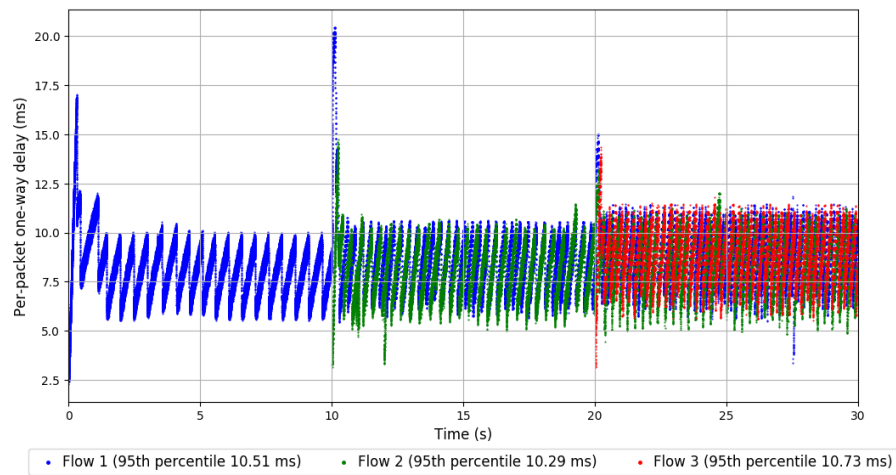
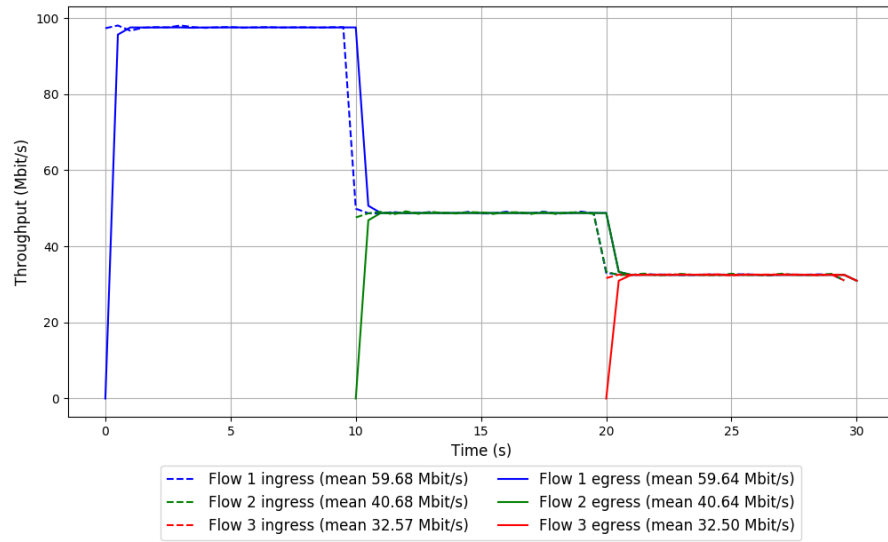


Run 5: Statistics of TCP Cubic

Start at: 2019-09-19 00:59:14  
End at: 2019-09-19 00:59:44  
Local clock offset: -2.64 ms  
Remote clock offset: -0.474 ms

# Below is generated by plot.py at 2019-09-19 01:05:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.50 Mbit/s  
95th percentile per-packet one-way delay: 10.520 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 59.64 Mbit/s  
95th percentile per-packet one-way delay: 10.506 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 40.64 Mbit/s  
95th percentile per-packet one-way delay: 10.295 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 32.50 Mbit/s  
95th percentile per-packet one-way delay: 10.726 ms  
Loss rate: 0.24%

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

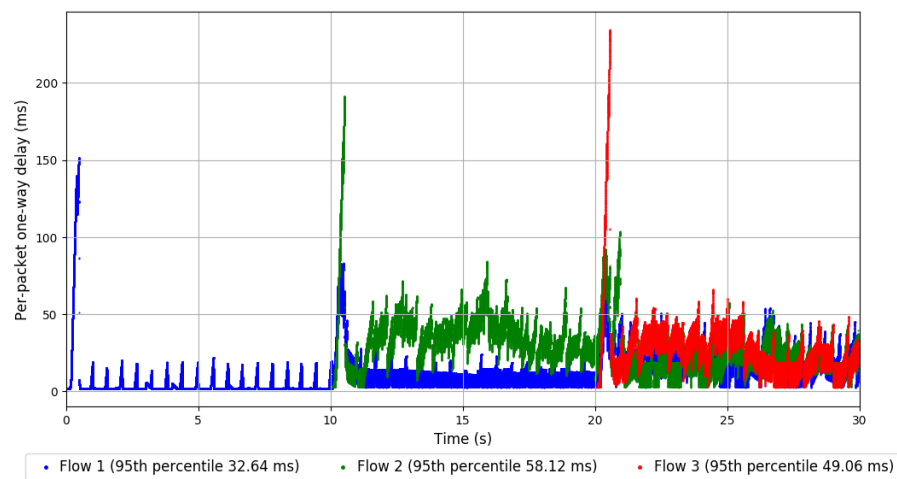
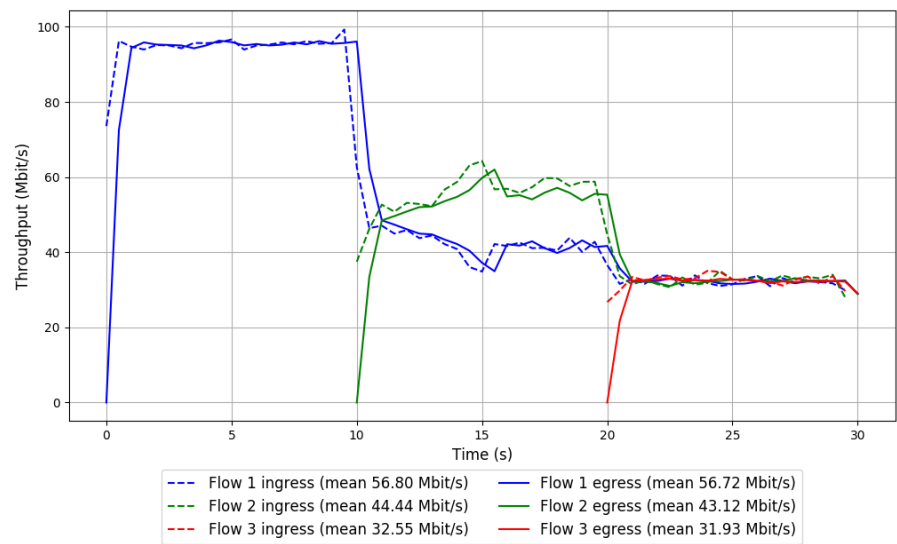


Run 1: Statistics of FillP

Start at: 2019-09-18 22:49:31  
End at: 2019-09-18 22:50:01  
Local clock offset: 1.498 ms  
Remote clock offset: -2.295 ms

# Below is generated by plot.py at 2019-09-19 01:05:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.04 Mbit/s  
95th percentile per-packet one-way delay: 49.479 ms  
Loss rate: 1.20%  
-- Flow 1:  
Average throughput: 56.72 Mbit/s  
95th percentile per-packet one-way delay: 32.636 ms  
Loss rate: 0.15%  
-- Flow 2:  
Average throughput: 43.12 Mbit/s  
95th percentile per-packet one-way delay: 58.117 ms  
Loss rate: 2.95%  
-- Flow 3:  
Average throughput: 31.93 Mbit/s  
95th percentile per-packet one-way delay: 49.060 ms  
Loss rate: 1.91%

Run 1: Report of FillP — Data Link

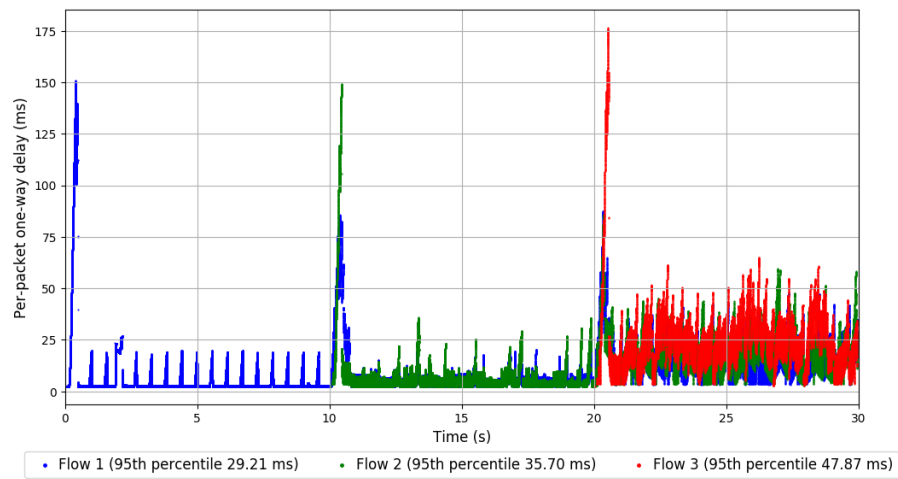
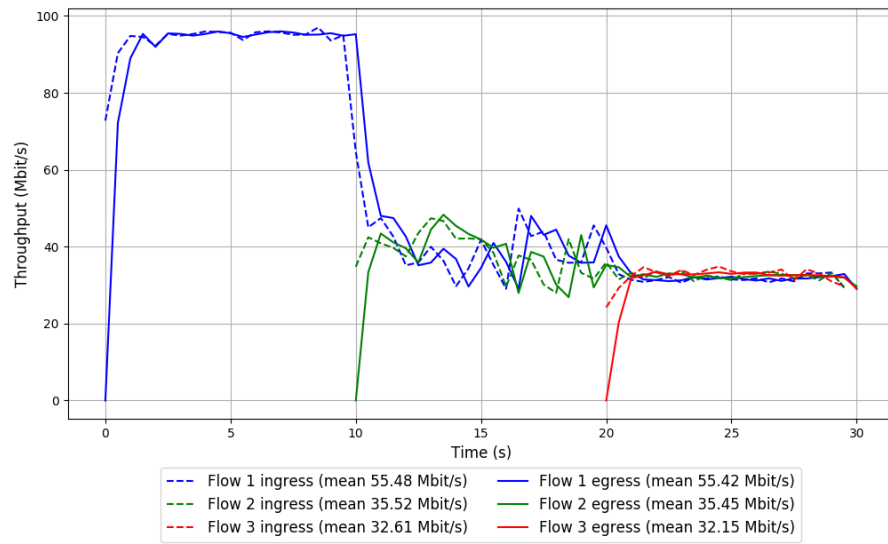


Run 2: Statistics of FillP

Start at: 2019-09-18 23:17:04  
End at: 2019-09-18 23:17:34  
Local clock offset: -5.799 ms  
Remote clock offset: -2.678 ms

# Below is generated by plot.py at 2019-09-19 01:05:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.66 Mbit/s  
95th percentile per-packet one-way delay: 37.280 ms  
Loss rate: 0.29%  
-- Flow 1:  
Average throughput: 55.42 Mbit/s  
95th percentile per-packet one-way delay: 29.211 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 35.45 Mbit/s  
95th percentile per-packet one-way delay: 35.703 ms  
Loss rate: 0.22%  
-- Flow 3:  
Average throughput: 32.15 Mbit/s  
95th percentile per-packet one-way delay: 47.869 ms  
Loss rate: 1.34%

## Run 2: Report of FillP — Data Link

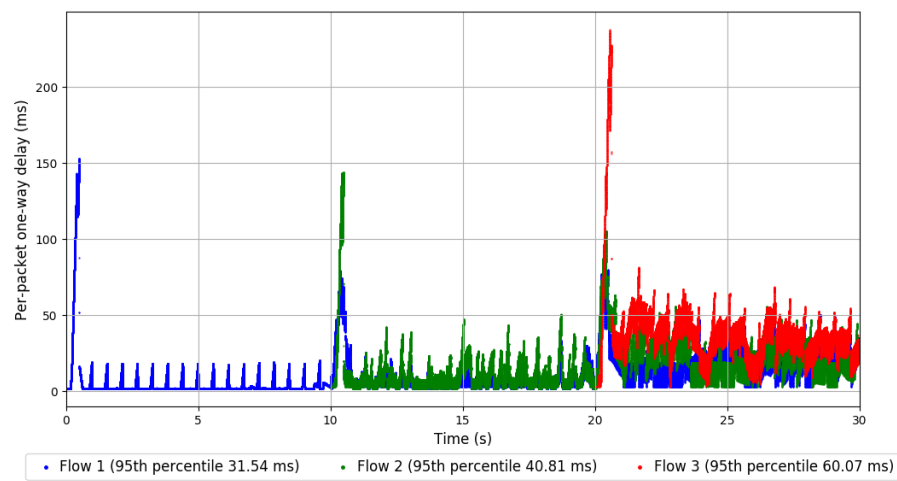
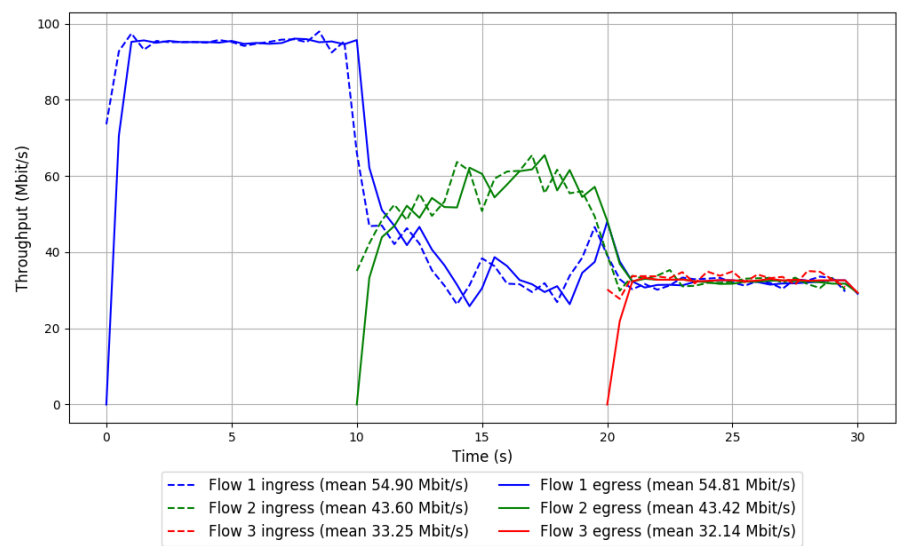


Run 3: Statistics of FillP

Start at: 2019-09-18 23:44:35  
End at: 2019-09-18 23:45:05  
Local clock offset: -10.616 ms  
Remote clock offset: -1.684 ms

# Below is generated by plot.py at 2019-09-19 01:05:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.38 Mbit/s  
95th percentile per-packet one-way delay: 47.263 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 54.81 Mbit/s  
95th percentile per-packet one-way delay: 31.544 ms  
Loss rate: 0.17%  
-- Flow 2:  
Average throughput: 43.42 Mbit/s  
95th percentile per-packet one-way delay: 40.815 ms  
Loss rate: 0.46%  
-- Flow 3:  
Average throughput: 32.14 Mbit/s  
95th percentile per-packet one-way delay: 60.073 ms  
Loss rate: 3.27%

Run 3: Report of FillP — Data Link

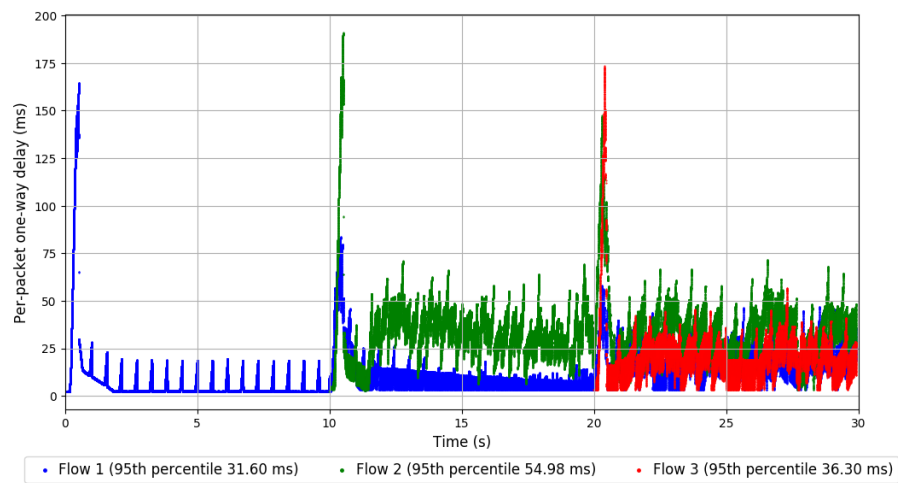
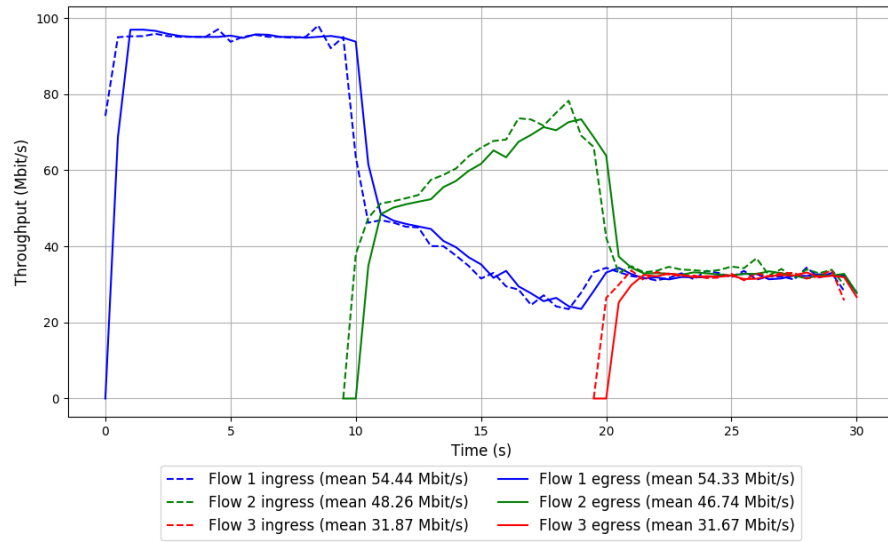


Run 4: Statistics of FillP

Start at: 2019-09-19 00:12:09  
End at: 2019-09-19 00:12:39  
Local clock offset: -7.864 ms  
Remote clock offset: -0.515 ms

# Below is generated by plot.py at 2019-09-19 01:05:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.99 Mbit/s  
95th percentile per-packet one-way delay: 48.483 ms  
Loss rate: 1.21%  
-- Flow 1:  
Average throughput: 54.33 Mbit/s  
95th percentile per-packet one-way delay: 31.596 ms  
Loss rate: 0.16%  
-- Flow 2:  
Average throughput: 46.74 Mbit/s  
95th percentile per-packet one-way delay: 54.981 ms  
Loss rate: 3.17%  
-- Flow 3:  
Average throughput: 31.67 Mbit/s  
95th percentile per-packet one-way delay: 36.295 ms  
Loss rate: 0.62%

# Run 4: Report of FillP — Data Link

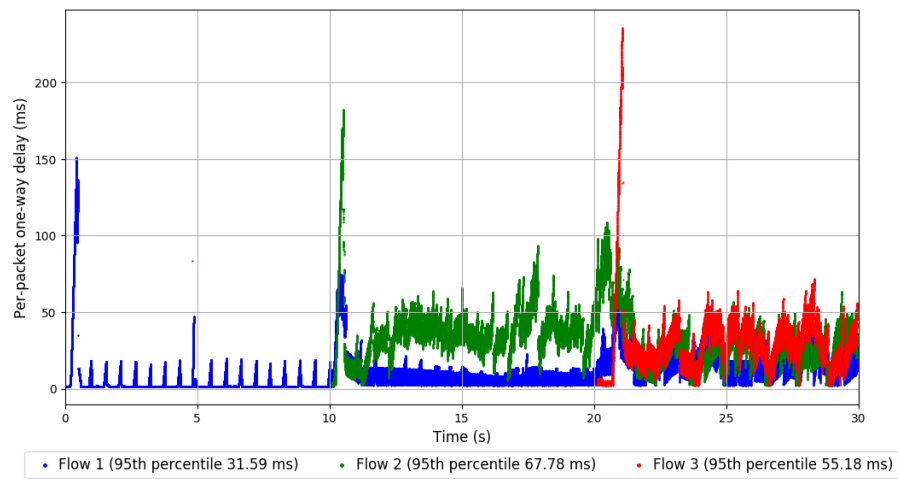
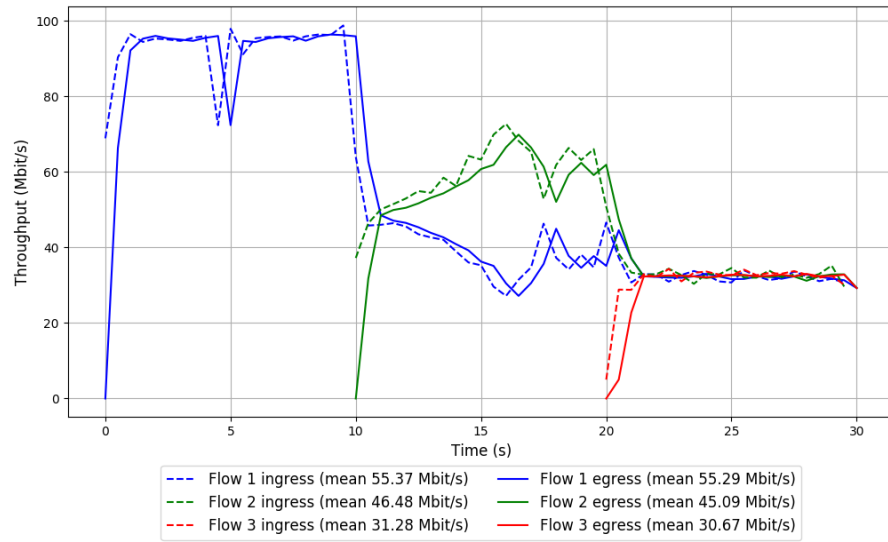


Run 5: Statistics of FillP

Start at: 2019-09-19 00:39:43  
End at: 2019-09-19 00:40:13  
Local clock offset: -5.148 ms  
Remote clock offset: -0.246 ms

# Below is generated by plot.py at 2019-09-19 01:06:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.49 Mbit/s  
95th percentile per-packet one-way delay: 53.668 ms  
Loss rate: 1.21%  
-- Flow 1:  
Average throughput: 55.29 Mbit/s  
95th percentile per-packet one-way delay: 31.595 ms  
Loss rate: 0.15%  
-- Flow 2:  
Average throughput: 45.09 Mbit/s  
95th percentile per-packet one-way delay: 67.784 ms  
Loss rate: 2.99%  
-- Flow 3:  
Average throughput: 30.67 Mbit/s  
95th percentile per-packet one-way delay: 55.182 ms  
Loss rate: 1.60%

## Run 5: Report of FillP — Data Link

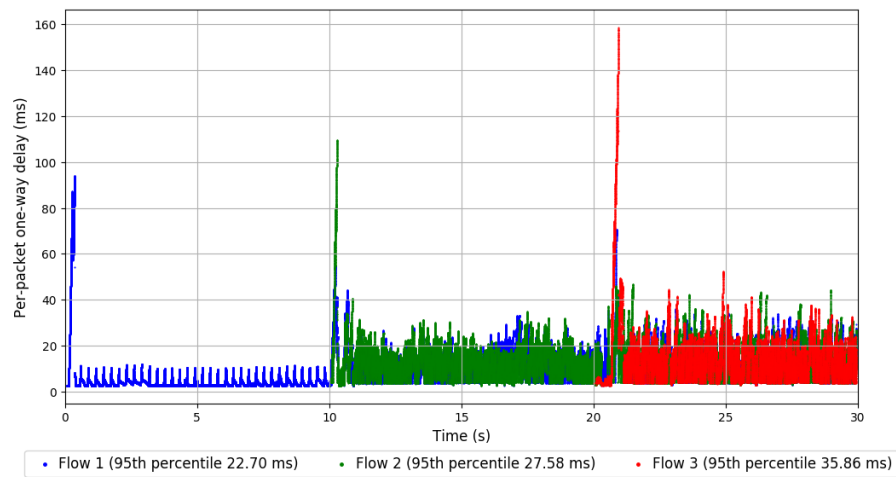
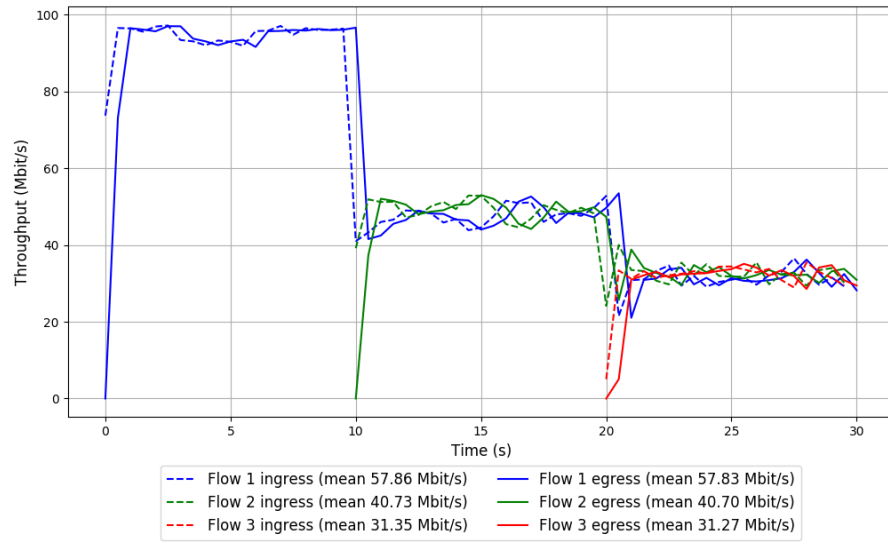


Run 1: Statistics of FillP-Sheep

Start at: 2019-09-18 23:04:32  
End at: 2019-09-18 23:05:02  
Local clock offset: -0.944 ms  
Remote clock offset: -2.556 ms

# Below is generated by plot.py at 2019-09-19 01:06:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.30 Mbit/s  
95th percentile per-packet one-way delay: 26.240 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 57.83 Mbit/s  
95th percentile per-packet one-way delay: 22.705 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 40.70 Mbit/s  
95th percentile per-packet one-way delay: 27.576 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 31.27 Mbit/s  
95th percentile per-packet one-way delay: 35.863 ms  
Loss rate: 0.22%

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

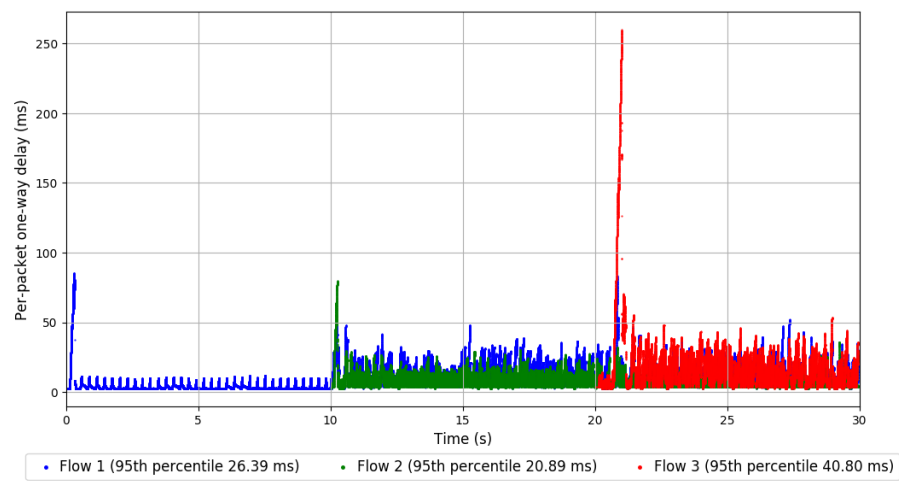
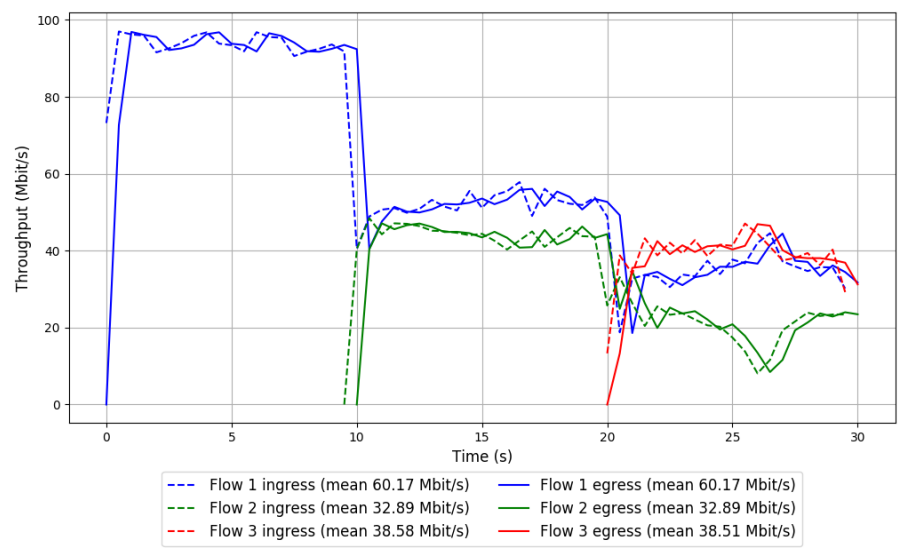


Run 2: Statistics of FillP-Sheep

Start at: 2019-09-18 23:32:03  
End at: 2019-09-18 23:32:33  
Local clock offset: -8.346 ms  
Remote clock offset: -2.173 ms

# Below is generated by plot.py at 2019-09-19 01:06:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.85 Mbit/s  
95th percentile per-packet one-way delay: 28.364 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 60.17 Mbit/s  
95th percentile per-packet one-way delay: 26.386 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 32.89 Mbit/s  
95th percentile per-packet one-way delay: 20.893 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 38.51 Mbit/s  
95th percentile per-packet one-way delay: 40.799 ms  
Loss rate: 0.22%

Run 2: Report of FillP-Sheep — Data Link

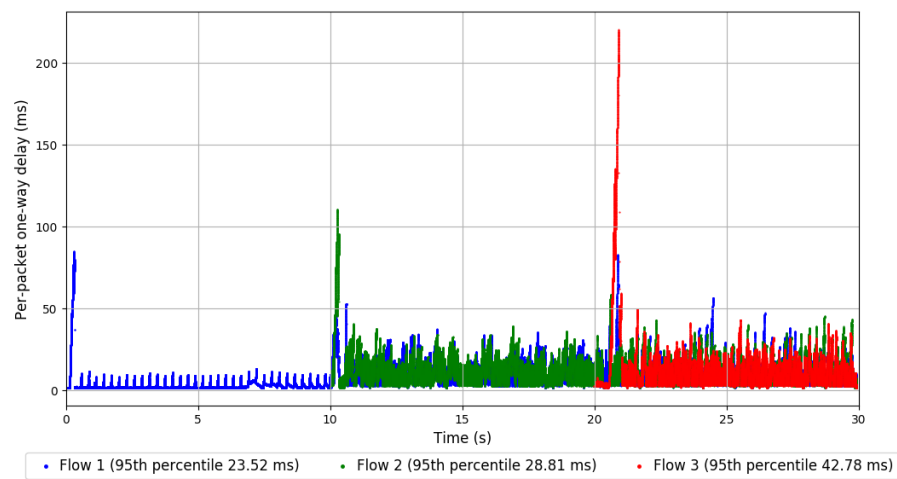
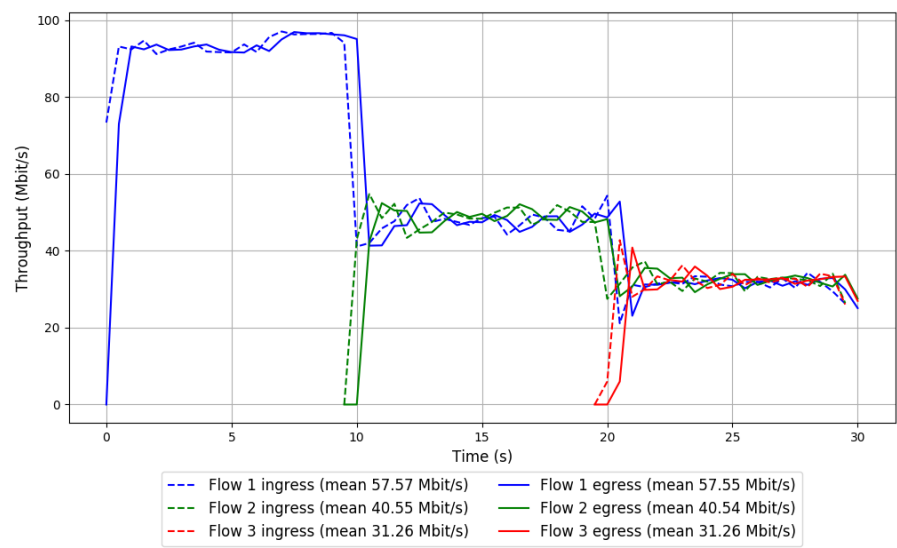


Run 3: Statistics of FillP-Sheep

Start at: 2019-09-18 23:59:36  
End at: 2019-09-19 00:00:06  
Local clock offset: -12.297 ms  
Remote clock offset: -0.832 ms

# Below is generated by plot.py at 2019-09-19 01:06:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.95 Mbit/s  
95th percentile per-packet one-way delay: 26.719 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 57.55 Mbit/s  
95th percentile per-packet one-way delay: 23.524 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 40.54 Mbit/s  
95th percentile per-packet one-way delay: 28.813 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 31.26 Mbit/s  
95th percentile per-packet one-way delay: 42.779 ms  
Loss rate: 0.03%

Run 3: Report of FillP-Sheep — Data Link

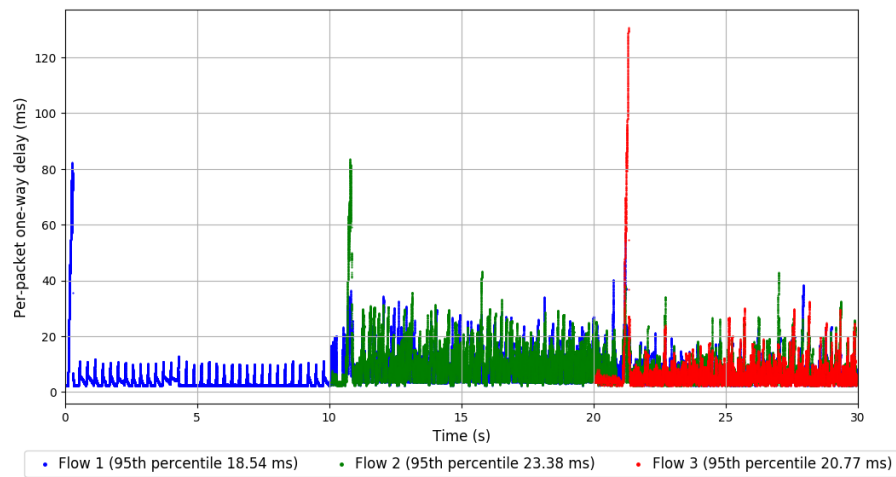
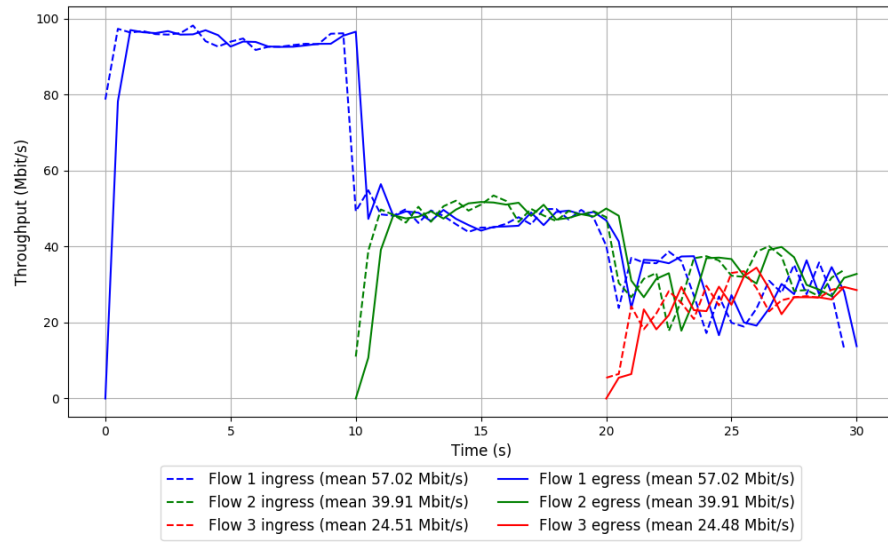


Run 4: Statistics of FillP-Sheep

Start at: 2019-09-19 00:27:10  
End at: 2019-09-19 00:27:40  
Local clock offset: -6.995 ms  
Remote clock offset: -0.269 ms

# Below is generated by plot.py at 2019-09-19 01:06:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.69 Mbit/s  
95th percentile per-packet one-way delay: 20.665 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 57.02 Mbit/s  
95th percentile per-packet one-way delay: 18.540 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 39.91 Mbit/s  
95th percentile per-packet one-way delay: 23.375 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 24.48 Mbit/s  
95th percentile per-packet one-way delay: 20.769 ms  
Loss rate: 0.17%

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

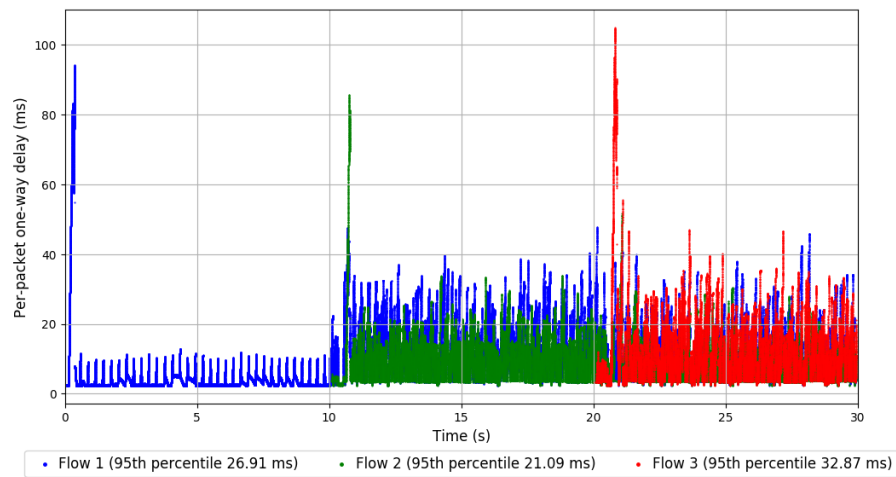
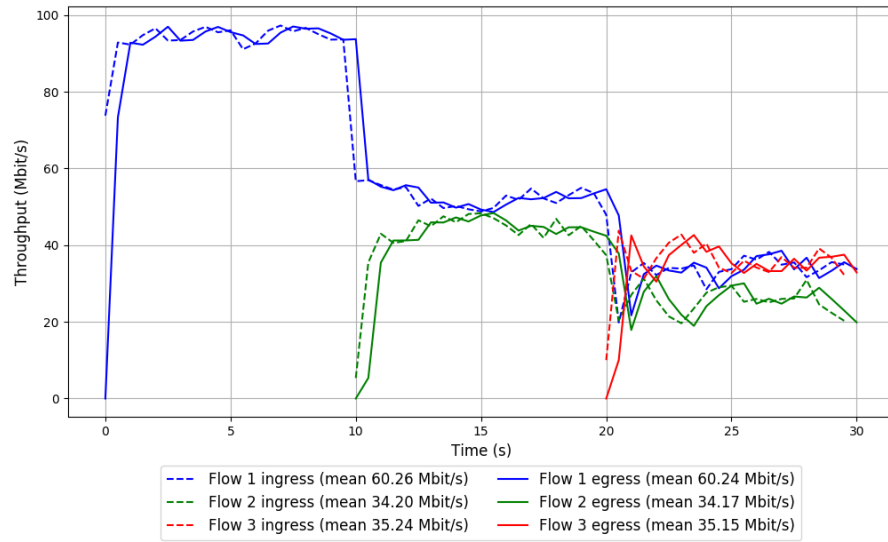


Run 5: Statistics of FillP-Sheep

Start at: 2019-09-19 00:54:42  
End at: 2019-09-19 00:55:12  
Local clock offset: -2.831 ms  
Remote clock offset: -0.428 ms

# Below is generated by plot.py at 2019-09-19 01:06:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.65 Mbit/s  
95th percentile per-packet one-way delay: 26.625 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 60.24 Mbit/s  
95th percentile per-packet one-way delay: 26.910 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 34.17 Mbit/s  
95th percentile per-packet one-way delay: 21.092 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 35.15 Mbit/s  
95th percentile per-packet one-way delay: 32.868 ms  
Loss rate: 0.11%

## Run 5: Report of FillP-Sheep — Data Link

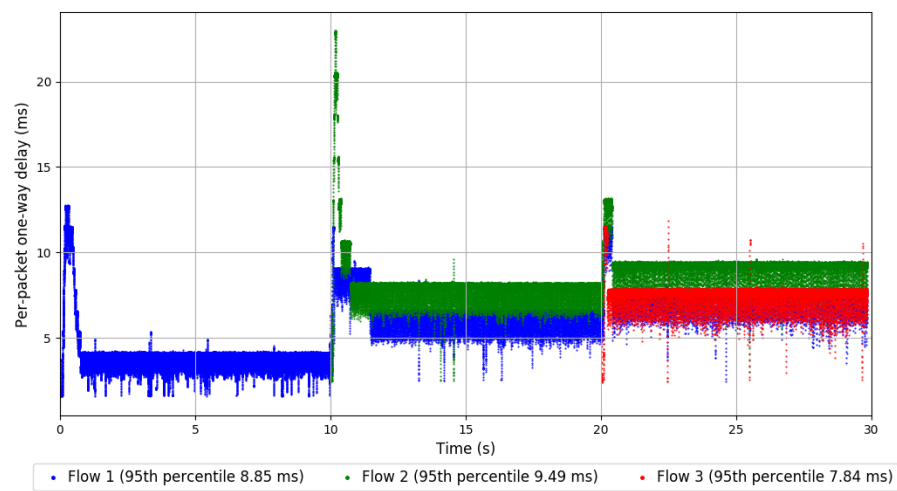
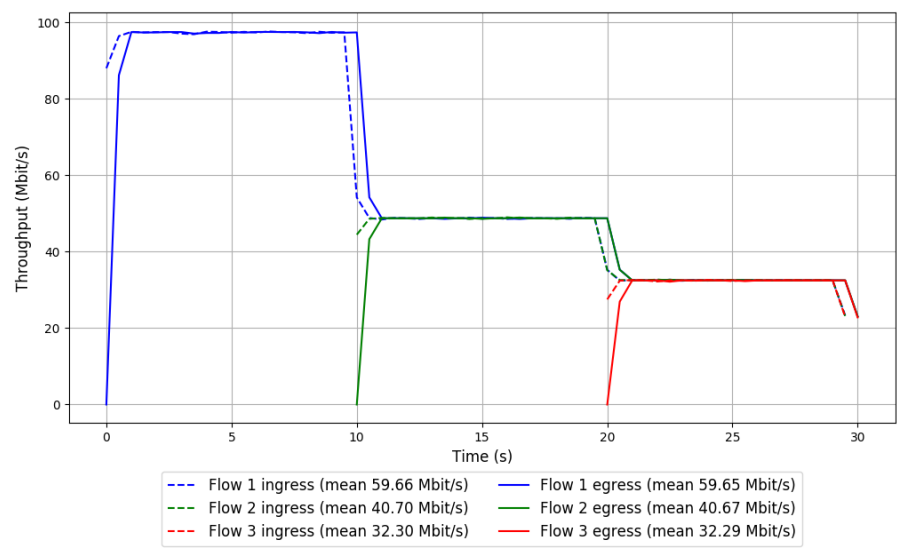


```
Run 1: Statistics of Indigo

Start at: 2019-09-18 22:48:20
End at: 2019-09-18 22:48:50
Local clock offset: 1.507 ms
Remote clock offset: -2.162 ms

# Below is generated by plot.py at 2019-09-19 01:06:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.31 Mbit/s
95th percentile per-packet one-way delay: 9.343 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 59.65 Mbit/s
95th percentile per-packet one-way delay: 8.850 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 40.67 Mbit/s
95th percentile per-packet one-way delay: 9.491 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 32.29 Mbit/s
95th percentile per-packet one-way delay: 7.839 ms
Loss rate: 0.12%
```

Run 1: Report of Indigo — Data Link

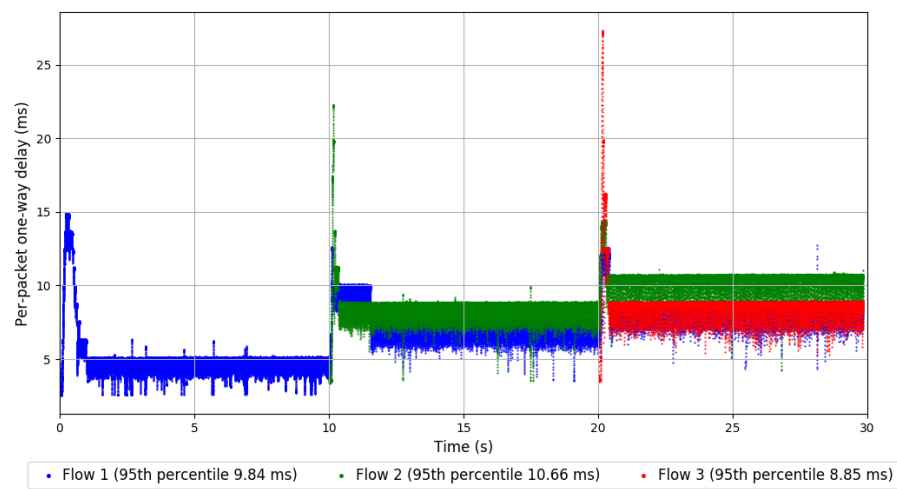
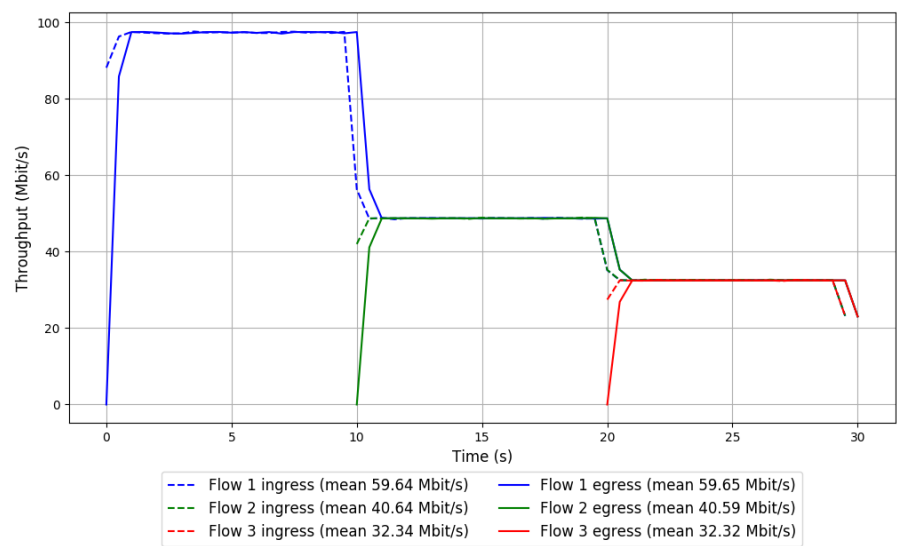


Run 2: Statistics of Indigo

Start at: 2019-09-18 23:15:53  
End at: 2019-09-18 23:16:23  
Local clock offset: -5.517 ms  
Remote clock offset: -2.619 ms

# Below is generated by plot.py at 2019-09-19 01:06:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.26 Mbit/s  
95th percentile per-packet one-way delay: 10.596 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 59.65 Mbit/s  
95th percentile per-packet one-way delay: 9.844 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 40.59 Mbit/s  
95th percentile per-packet one-way delay: 10.663 ms  
Loss rate: 0.15%  
-- Flow 3:  
Average throughput: 32.32 Mbit/s  
95th percentile per-packet one-way delay: 8.852 ms  
Loss rate: 0.11%

Run 2: Report of Indigo — Data Link

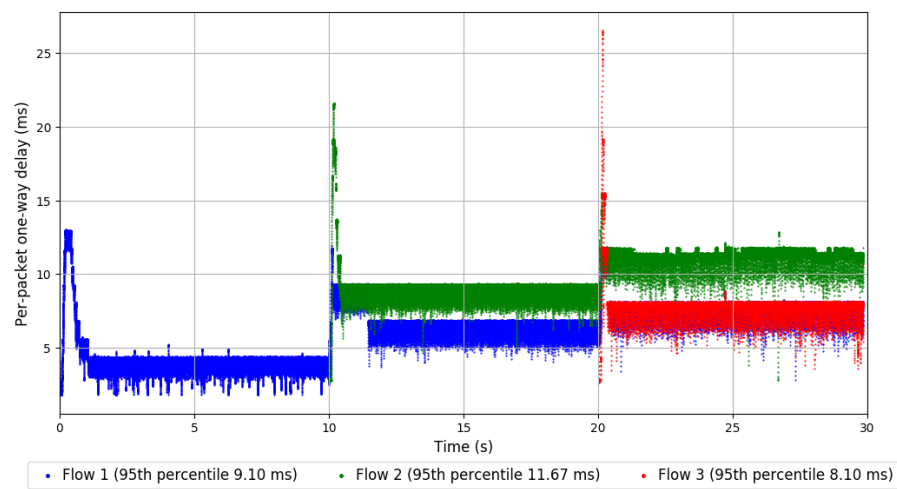
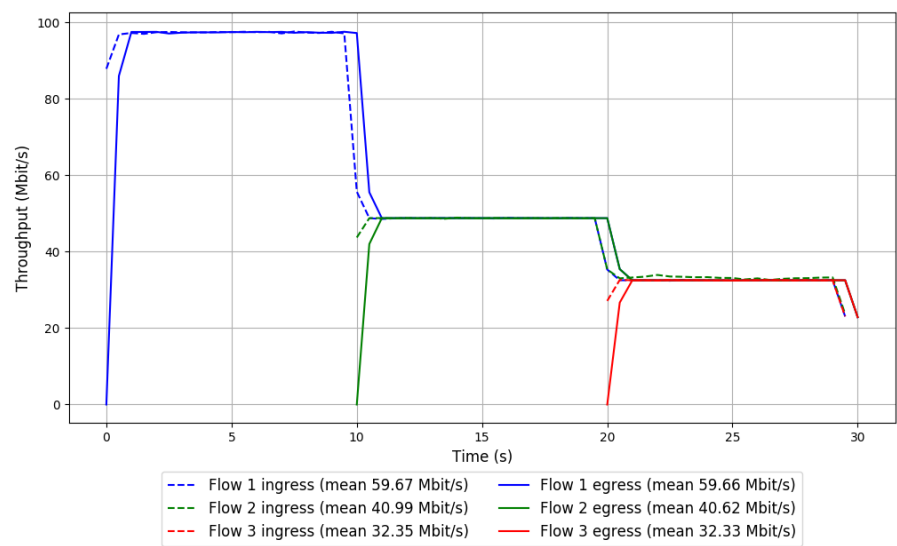


Run 3: Statistics of Indigo

Start at: 2019-09-18 23:43:24  
End at: 2019-09-18 23:43:54  
Local clock offset: -10.462 ms  
Remote clock offset: -1.691 ms

# Below is generated by plot.py at 2019-09-19 01:07:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.29 Mbit/s  
95th percentile per-packet one-way delay: 11.375 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 59.66 Mbit/s  
95th percentile per-packet one-way delay: 9.099 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 40.62 Mbit/s  
95th percentile per-packet one-way delay: 11.668 ms  
Loss rate: 0.91%  
-- Flow 3:  
Average throughput: 32.33 Mbit/s  
95th percentile per-packet one-way delay: 8.096 ms  
Loss rate: 0.11%

Run 3: Report of Indigo — Data Link

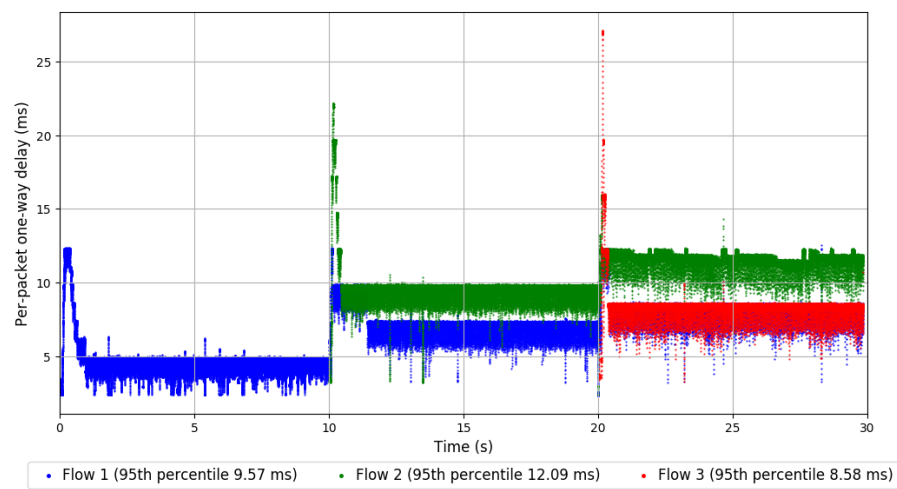
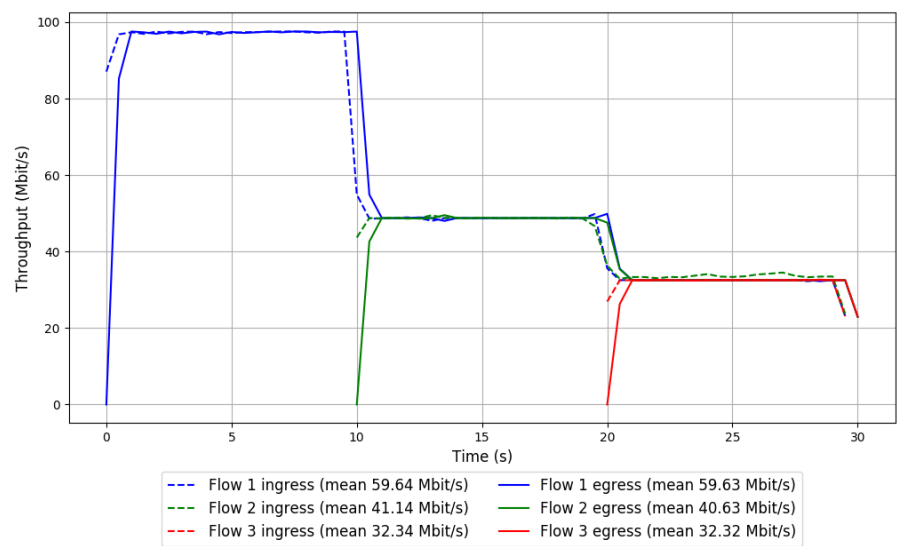


Run 4: Statistics of Indigo

Start at: 2019-09-19 00:10:59  
End at: 2019-09-19 00:11:29  
Local clock offset: -8.053 ms  
Remote clock offset: -0.495 ms

# Below is generated by plot.py at 2019-09-19 01:07:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.25 Mbit/s  
95th percentile per-packet one-way delay: 11.765 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 59.63 Mbit/s  
95th percentile per-packet one-way delay: 9.566 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 40.63 Mbit/s  
95th percentile per-packet one-way delay: 12.094 ms  
Loss rate: 1.26%  
-- Flow 3:  
Average throughput: 32.32 Mbit/s  
95th percentile per-packet one-way delay: 8.584 ms  
Loss rate: 0.12%

Run 4: Report of Indigo — Data Link

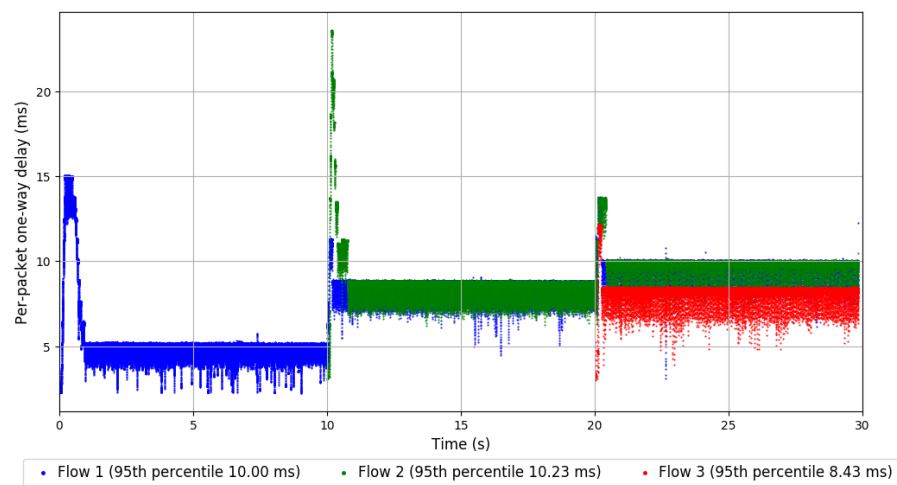
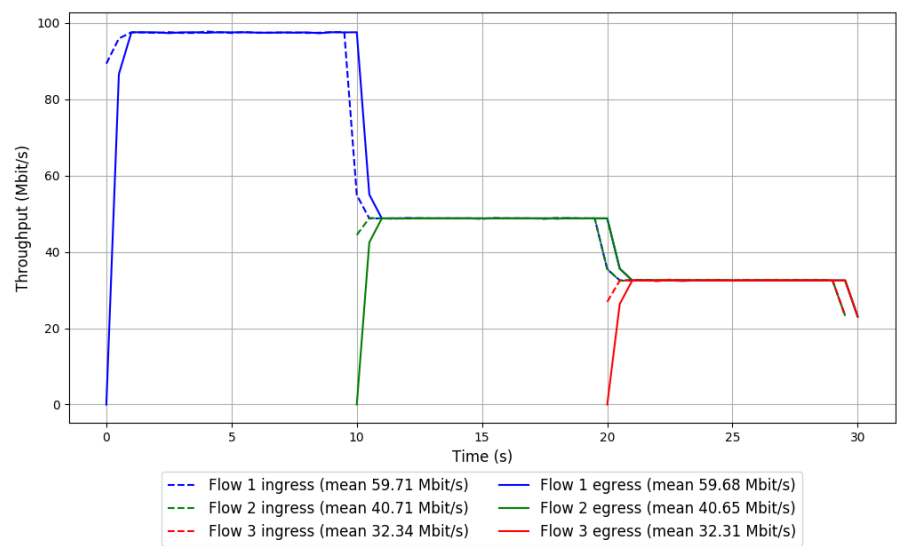


Run 5: Statistics of Indigo

Start at: 2019-09-19 00:38:32  
End at: 2019-09-19 00:39:02  
Local clock offset: -4.644 ms  
Remote clock offset: -0.261 ms

# Below is generated by plot.py at 2019-09-19 01:07:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.33 Mbit/s  
95th percentile per-packet one-way delay: 10.002 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 59.68 Mbit/s  
95th percentile per-packet one-way delay: 9.997 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 40.65 Mbit/s  
95th percentile per-packet one-way delay: 10.233 ms  
Loss rate: 0.16%  
-- Flow 3:  
Average throughput: 32.31 Mbit/s  
95th percentile per-packet one-way delay: 8.425 ms  
Loss rate: 0.11%

Run 5: Report of Indigo — Data Link

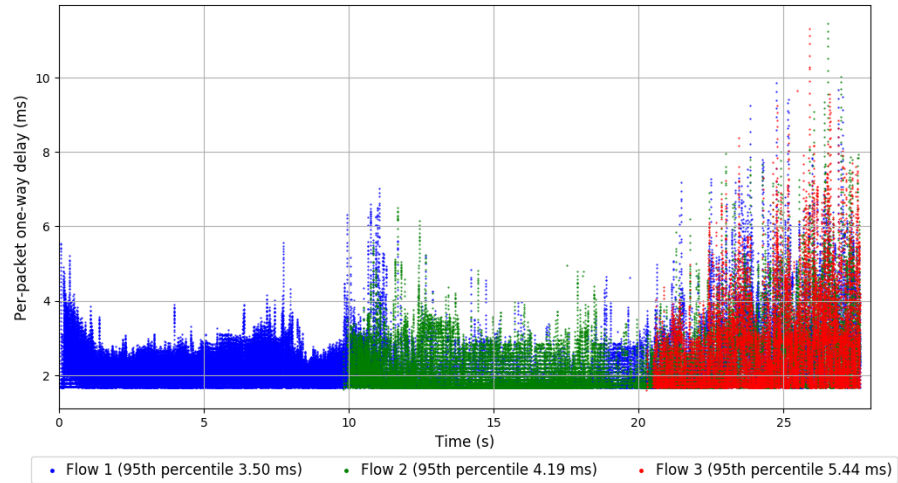
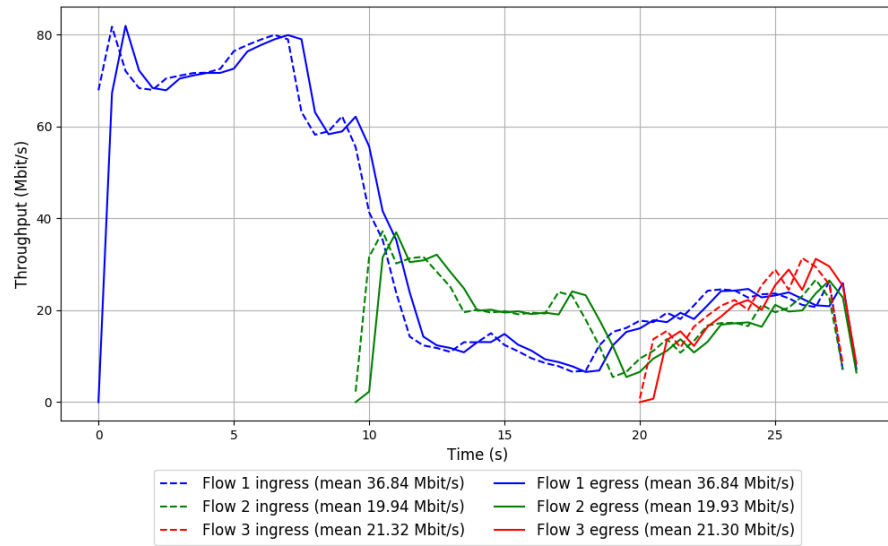


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-09-18 22:54:06  
End at: 2019-09-18 22:54:36  
Local clock offset: 1.529 ms  
Remote clock offset: -2.259 ms

# Below is generated by plot.py at 2019-09-19 01:07:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 55.35 Mbit/s  
95th percentile per-packet one-way delay: 3.997 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 36.84 Mbit/s  
95th percentile per-packet one-way delay: 3.501 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 19.93 Mbit/s  
95th percentile per-packet one-way delay: 4.186 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 21.30 Mbit/s  
95th percentile per-packet one-way delay: 5.439 ms  
Loss rate: 0.08%

# Run 1: Report of Indigo-MusesC3 — Data Link

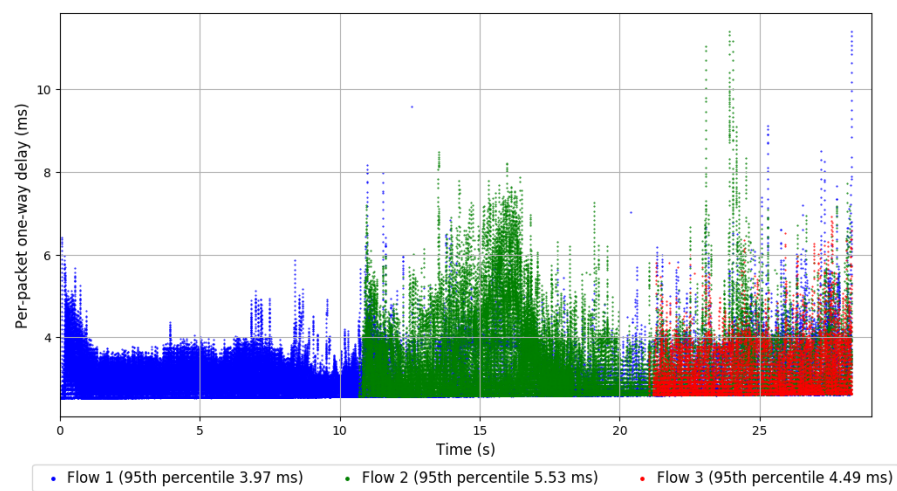
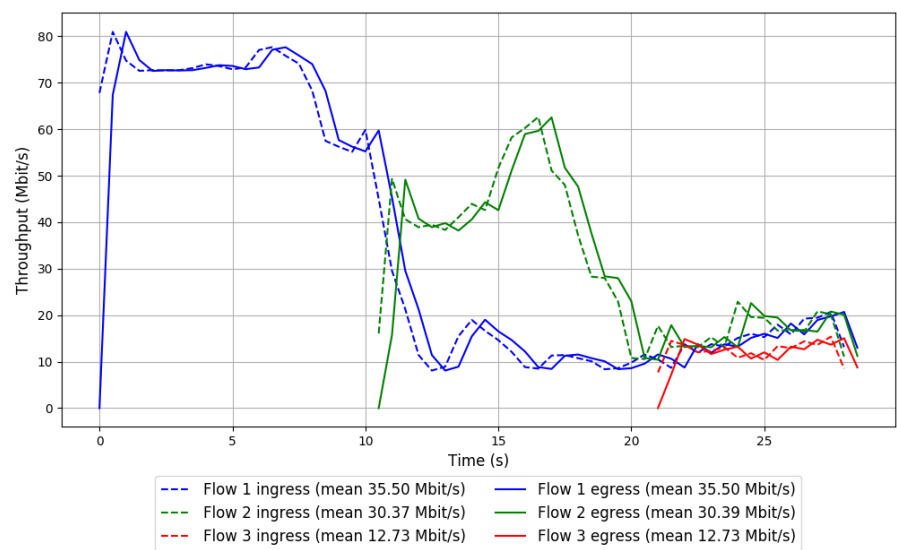


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-09-18 23:21:40  
End at: 2019-09-18 23:22:10  
Local clock offset: -6.792 ms  
Remote clock offset: -2.683 ms

# Below is generated by plot.py at 2019-09-19 01:07:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 57.66 Mbit/s  
95th percentile per-packet one-way delay: 4.696 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 35.50 Mbit/s  
95th percentile per-packet one-way delay: 3.970 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 30.39 Mbit/s  
95th percentile per-packet one-way delay: 5.533 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 12.73 Mbit/s  
95th percentile per-packet one-way delay: 4.489 ms  
Loss rate: 0.04%

Run 2: Report of Indigo-MusesC3 — Data Link

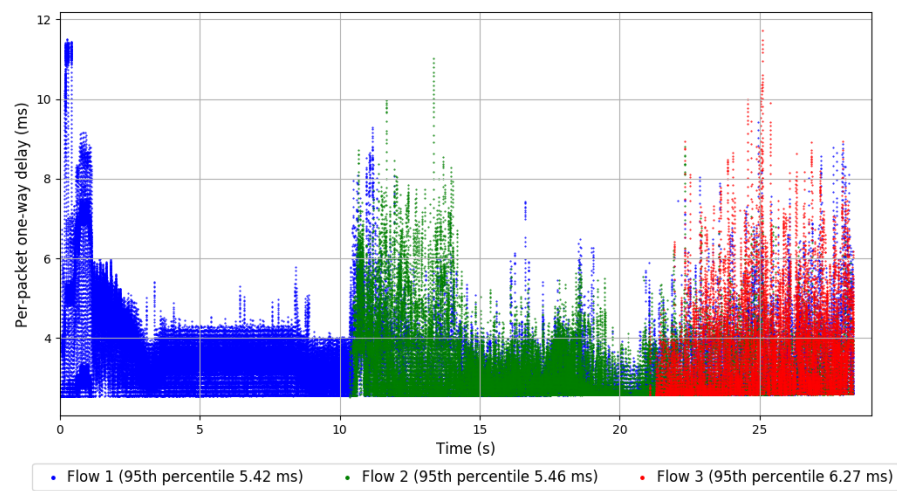
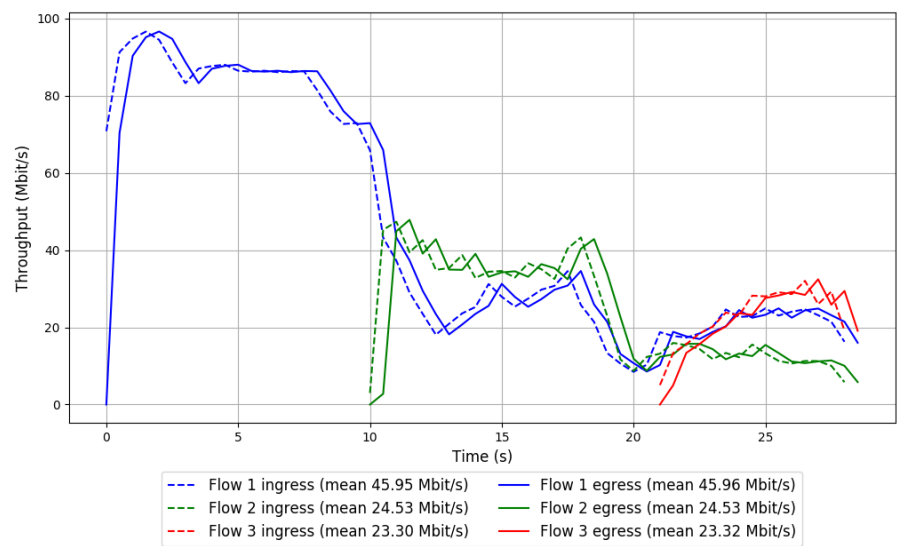


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-09-18 23:49:11  
End at: 2019-09-18 23:49:41  
Local clock offset: -10.435 ms  
Remote clock offset: -1.667 ms

# Below is generated by plot.py at 2019-09-19 01:07:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 67.51 Mbit/s  
95th percentile per-packet one-way delay: 5.540 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 45.96 Mbit/s  
95th percentile per-packet one-way delay: 5.425 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 24.53 Mbit/s  
95th percentile per-packet one-way delay: 5.459 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 23.32 Mbit/s  
95th percentile per-packet one-way delay: 6.270 ms  
Loss rate: 0.03%

Run 3: Report of Indigo-MusesC3 — Data Link

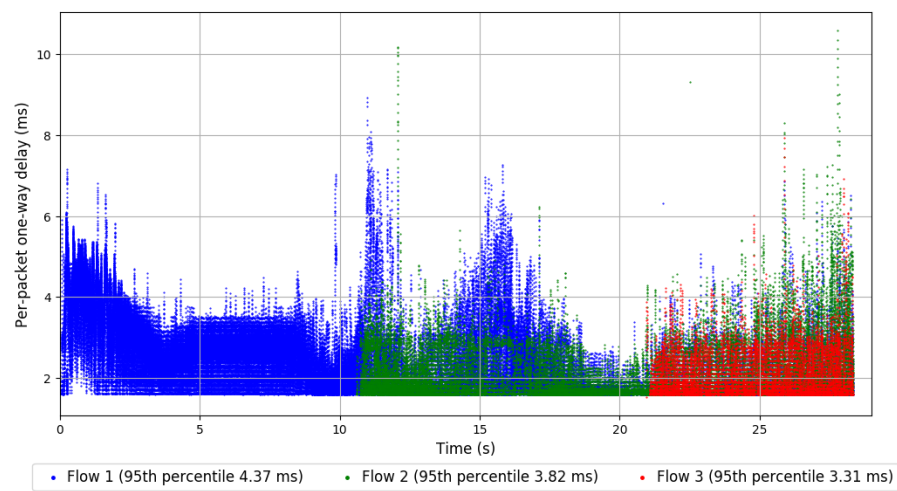
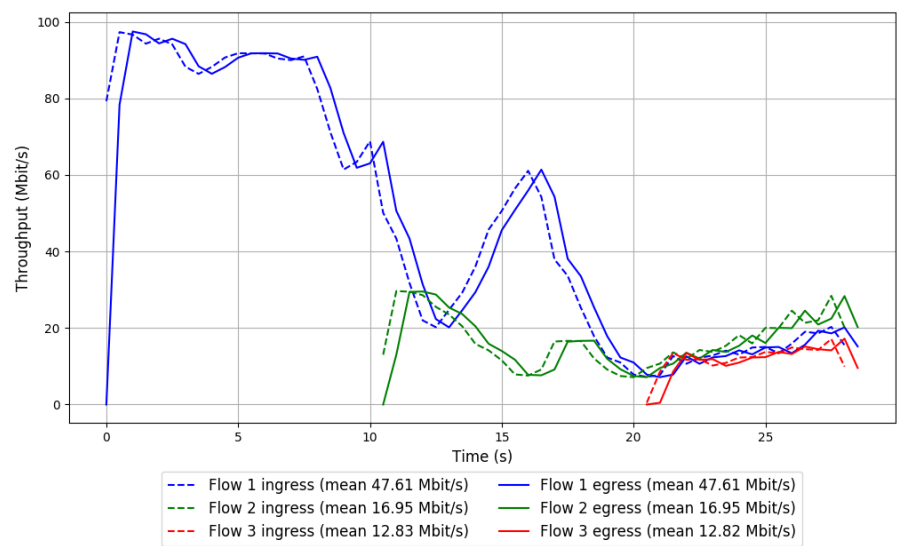


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-09-19 00:16:45  
End at: 2019-09-19 00:17:15  
Local clock offset: -8.141 ms  
Remote clock offset: -0.287 ms

# Below is generated by plot.py at 2019-09-19 01:07:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 61.56 Mbit/s  
95th percentile per-packet one-way delay: 4.286 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 47.61 Mbit/s  
95th percentile per-packet one-way delay: 4.371 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 16.95 Mbit/s  
95th percentile per-packet one-way delay: 3.817 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 12.82 Mbit/s  
95th percentile per-packet one-way delay: 3.313 ms  
Loss rate: 0.21%

Run 4: Report of Indigo-MusesC3 — Data Link

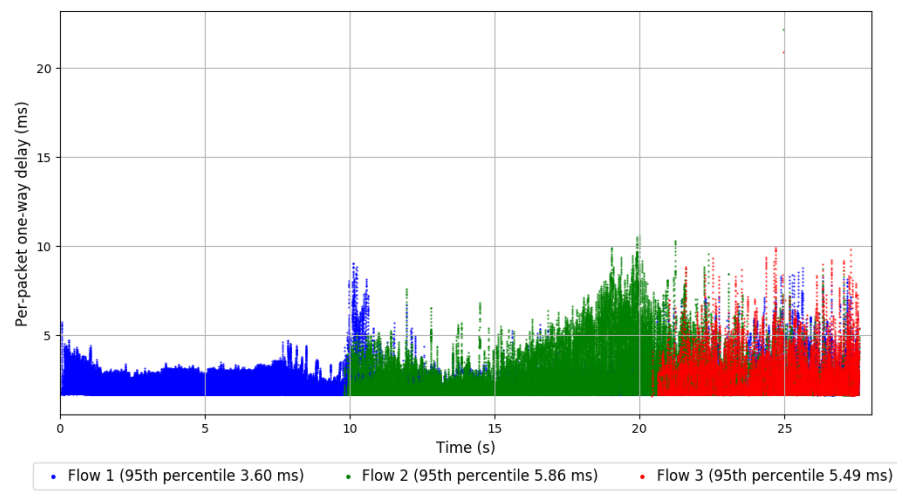
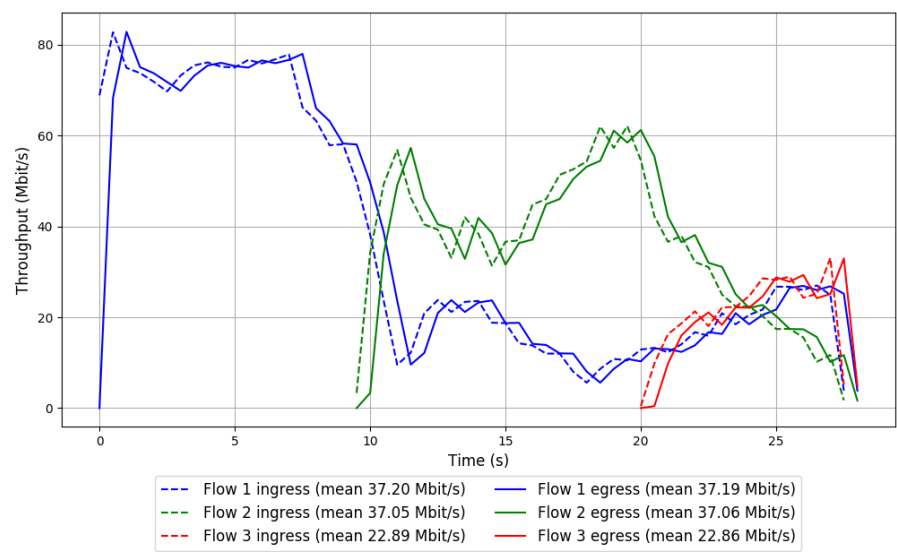


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-09-19 00:44:17  
End at: 2019-09-19 00:44:47  
Local clock offset: -4.45 ms  
Remote clock offset: -0.368 ms

# Below is generated by plot.py at 2019-09-19 01:07:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 67.00 Mbit/s  
95th percentile per-packet one-way delay: 4.999 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 37.19 Mbit/s  
95th percentile per-packet one-way delay: 3.595 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 37.06 Mbit/s  
95th percentile per-packet one-way delay: 5.859 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 22.86 Mbit/s  
95th percentile per-packet one-way delay: 5.490 ms  
Loss rate: 0.16%

Run 5: Report of Indigo-MusesC3 — Data Link

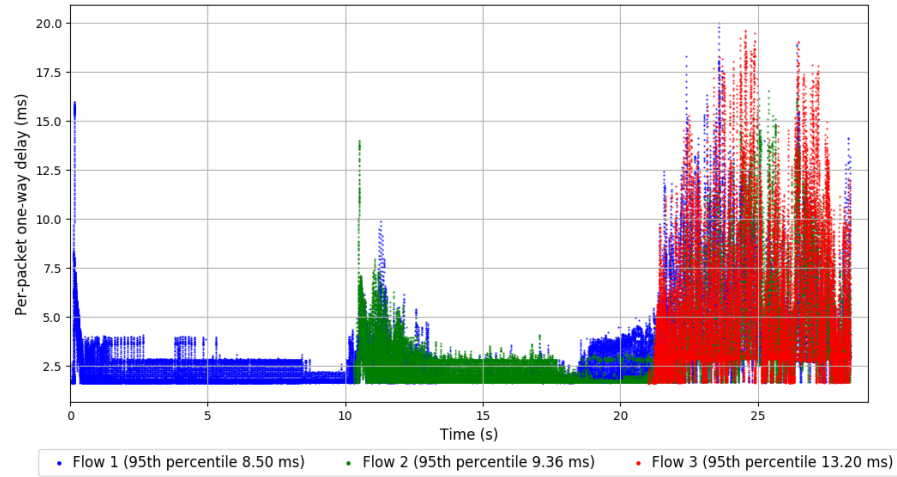
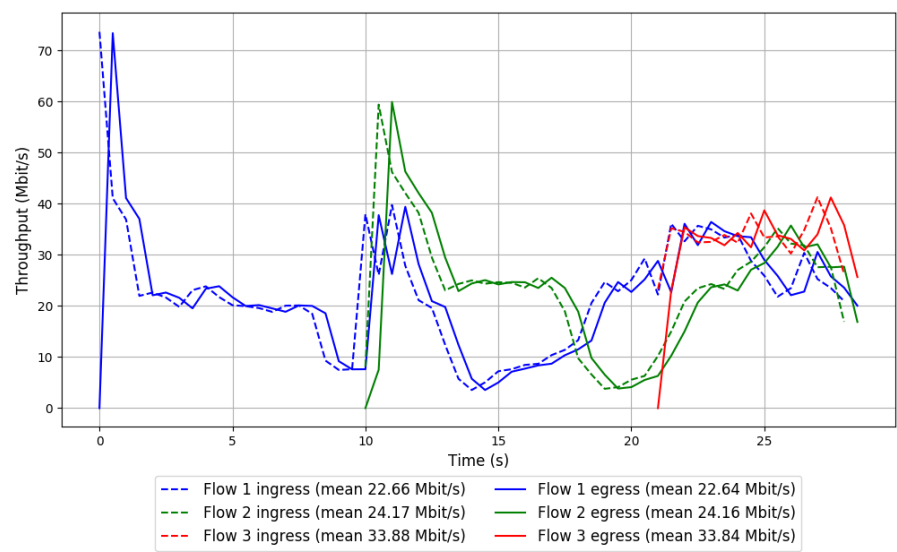


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-09-18 22:43:49  
End at: 2019-09-18 22:44:19  
Local clock offset: 1.624 ms  
Remote clock offset: -2.133 ms

# Below is generated by plot.py at 2019-09-19 01:07:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 46.76 Mbit/s  
95th percentile per-packet one-way delay: 10.199 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 22.64 Mbit/s  
95th percentile per-packet one-way delay: 8.504 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 24.16 Mbit/s  
95th percentile per-packet one-way delay: 9.357 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 33.84 Mbit/s  
95th percentile per-packet one-way delay: 13.203 ms  
Loss rate: 0.18%

Run 1: Report of Indigo-MusesC5 — Data Link

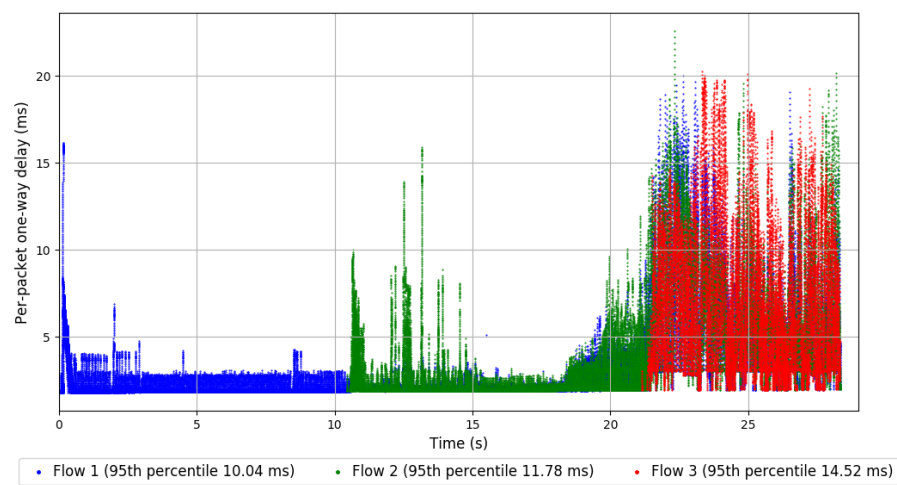
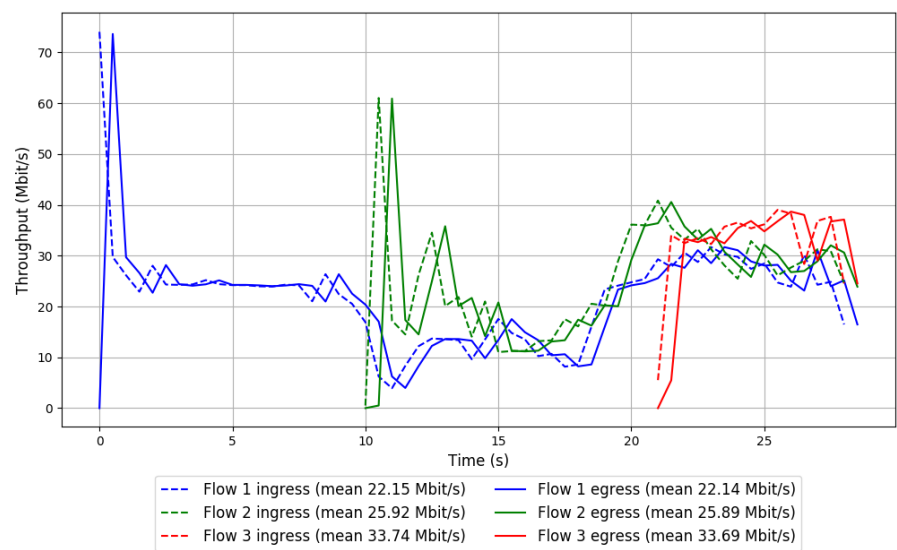


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-09-18 23:11:22  
End at: 2019-09-18 23:11:52  
Local clock offset: -4.948 ms  
Remote clock offset: -2.695 ms

# Below is generated by plot.py at 2019-09-19 01:07:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 47.06 Mbit/s  
95th percentile per-packet one-way delay: 12.075 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 22.14 Mbit/s  
95th percentile per-packet one-way delay: 10.040 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 25.89 Mbit/s  
95th percentile per-packet one-way delay: 11.780 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 33.69 Mbit/s  
95th percentile per-packet one-way delay: 14.519 ms  
Loss rate: 0.15%

Run 2: Report of Indigo-MusesC5 — Data Link

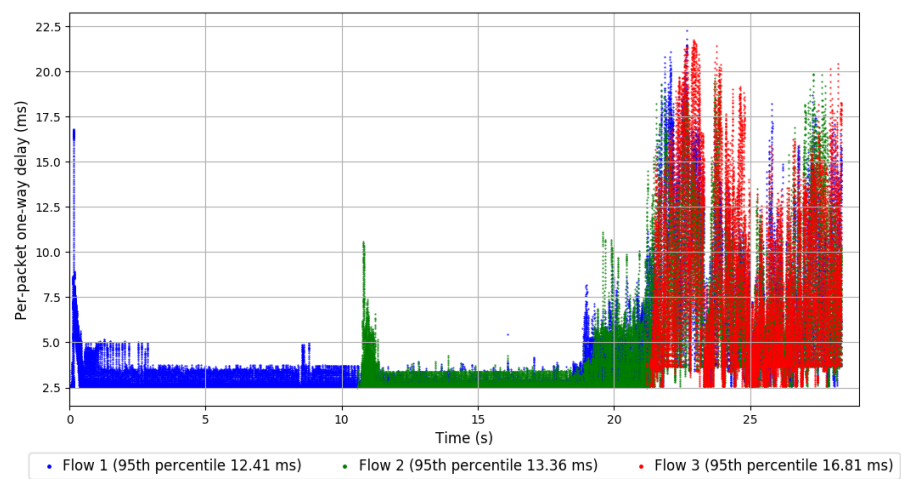
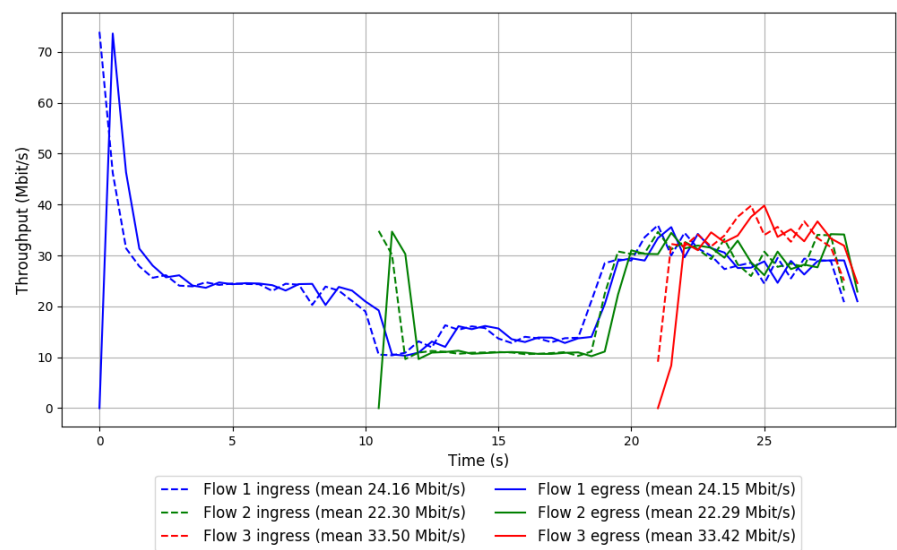


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-09-18 23:38:54  
End at: 2019-09-18 23:39:24  
Local clock offset: -9.197 ms  
Remote clock offset: -1.771 ms

# Below is generated by plot.py at 2019-09-19 01:07:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 46.56 Mbit/s  
95th percentile per-packet one-way delay: 13.998 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 24.15 Mbit/s  
95th percentile per-packet one-way delay: 12.407 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 22.29 Mbit/s  
95th percentile per-packet one-way delay: 13.357 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 33.42 Mbit/s  
95th percentile per-packet one-way delay: 16.807 ms  
Loss rate: 0.21%

Run 3: Report of Indigo-MusesC5 — Data Link

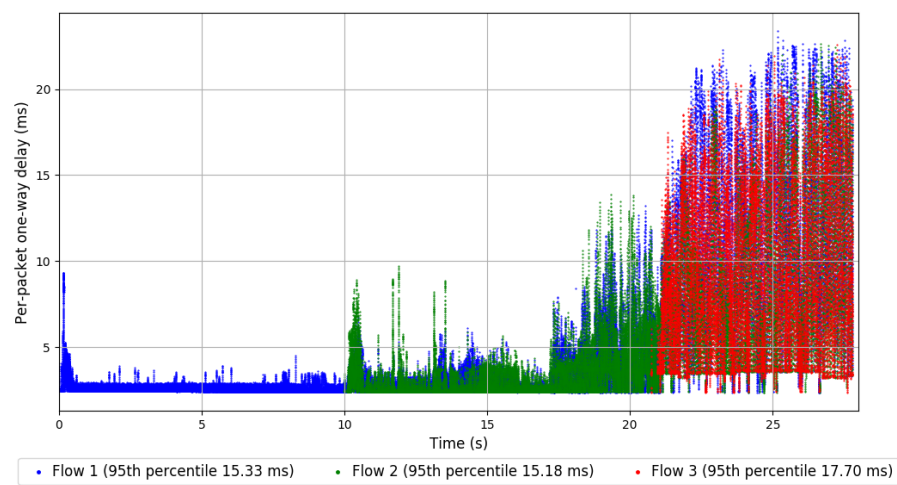
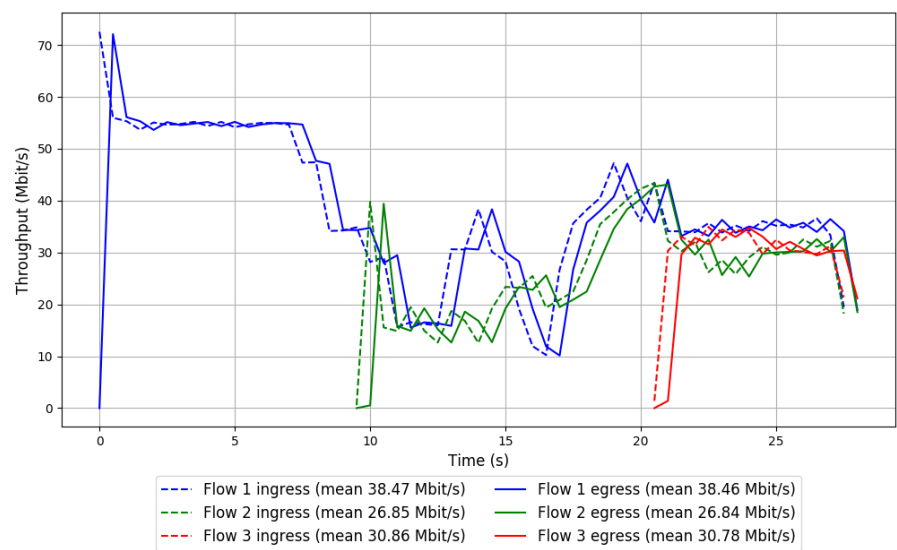


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-09-19 00:06:26  
End at: 2019-09-19 00:06:56  
Local clock offset: -9.081 ms  
Remote clock offset: -0.615 ms

# Below is generated by plot.py at 2019-09-19 01:08:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 63.49 Mbit/s  
95th percentile per-packet one-way delay: 16.026 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 38.46 Mbit/s  
95th percentile per-packet one-way delay: 15.334 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 26.84 Mbit/s  
95th percentile per-packet one-way delay: 15.180 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 30.78 Mbit/s  
95th percentile per-packet one-way delay: 17.695 ms  
Loss rate: 0.31%

Run 4: Report of Indigo-MusesC5 — Data Link

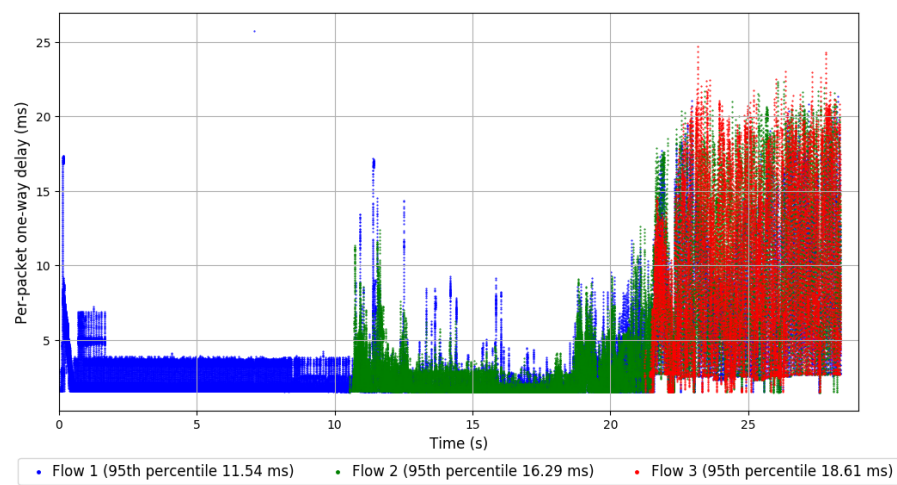
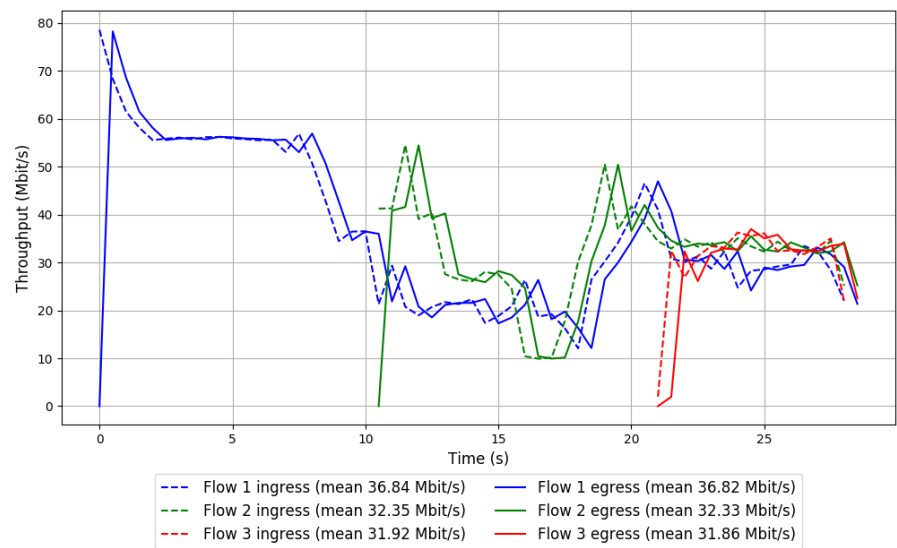


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-09-19 00:34:00  
End at: 2019-09-19 00:34:30  
Local clock offset: -6.409 ms  
Remote clock offset: -0.301 ms

# Below is generated by plot.py at 2019-09-19 01:08:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 65.13 Mbit/s  
95th percentile per-packet one-way delay: 15.429 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 36.82 Mbit/s  
95th percentile per-packet one-way delay: 11.535 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 32.33 Mbit/s  
95th percentile per-packet one-way delay: 16.291 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 31.86 Mbit/s  
95th percentile per-packet one-way delay: 18.609 ms  
Loss rate: 0.14%

Run 5: Report of Indigo-MusesC5 — Data Link

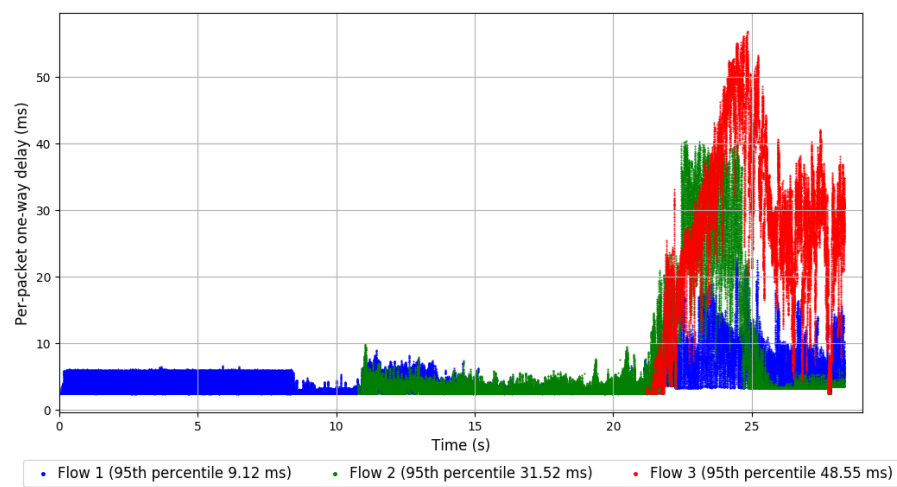
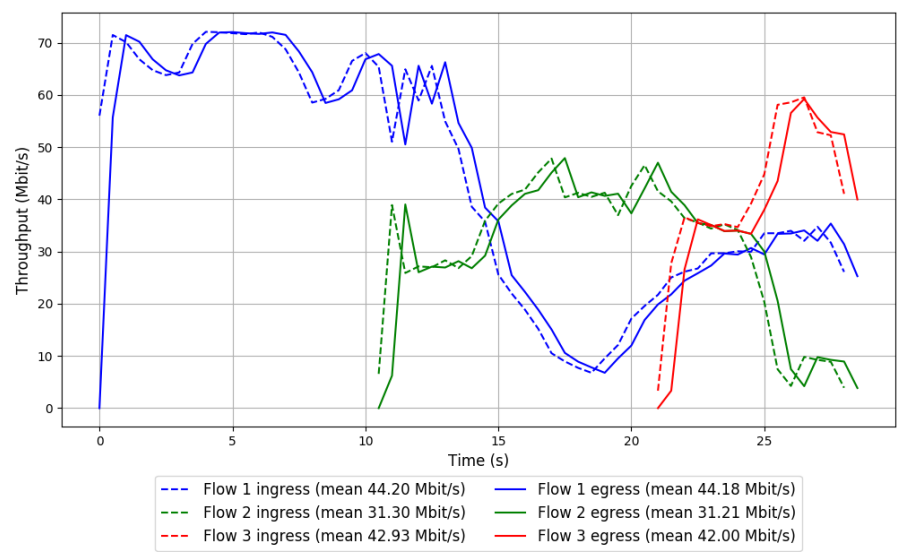


Run 1: Statistics of Indigo-MusesD

Start at: 2019-09-18 22:58:44  
End at: 2019-09-18 22:59:14  
Local clock offset: 2.255 ms  
Remote clock offset: -2.401 ms

# Below is generated by plot.py at 2019-09-19 01:08:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.10 Mbit/s  
95th percentile per-packet one-way delay: 32.949 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 44.18 Mbit/s  
95th percentile per-packet one-way delay: 9.118 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 31.21 Mbit/s  
95th percentile per-packet one-way delay: 31.523 ms  
Loss rate: 0.31%  
-- Flow 3:  
Average throughput: 42.00 Mbit/s  
95th percentile per-packet one-way delay: 48.553 ms  
Loss rate: 2.21%

Run 1: Report of Indigo-MusesD — Data Link

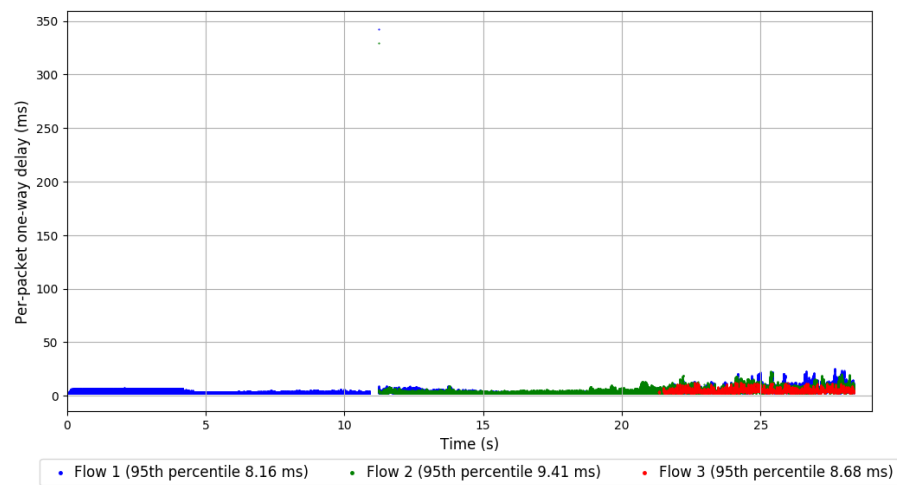
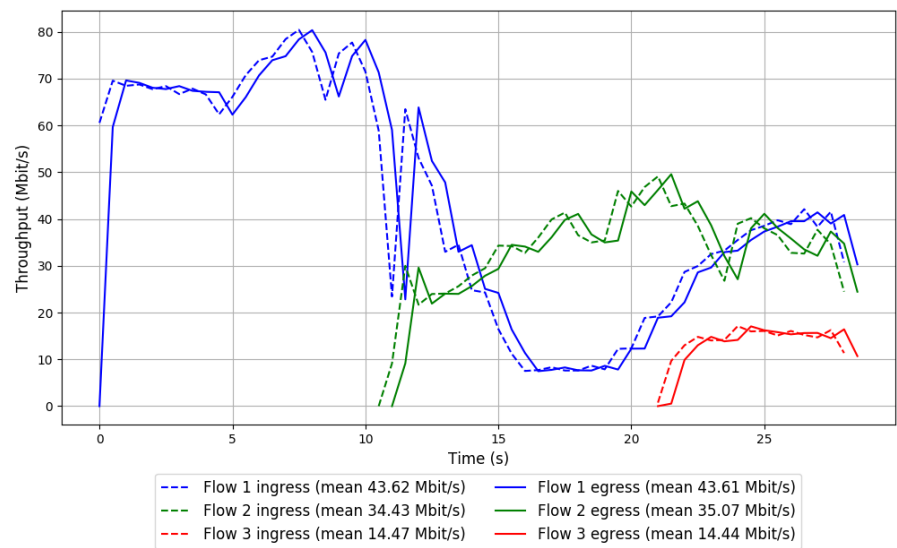


Run 2: Statistics of Indigo-MusesD

Start at: 2019-09-18 23:26:18  
End at: 2019-09-18 23:26:48  
Local clock offset: -7.471 ms  
Remote clock offset: -2.537 ms

# Below is generated by plot.py at 2019-09-19 01:08:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.37 Mbit/s  
95th percentile per-packet one-way delay: 8.773 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 43.61 Mbit/s  
95th percentile per-packet one-way delay: 8.163 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 35.07 Mbit/s  
95th percentile per-packet one-way delay: 9.410 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 14.44 Mbit/s  
95th percentile per-packet one-way delay: 8.681 ms  
Loss rate: 0.32%

Run 2: Report of Indigo-MusesD — Data Link

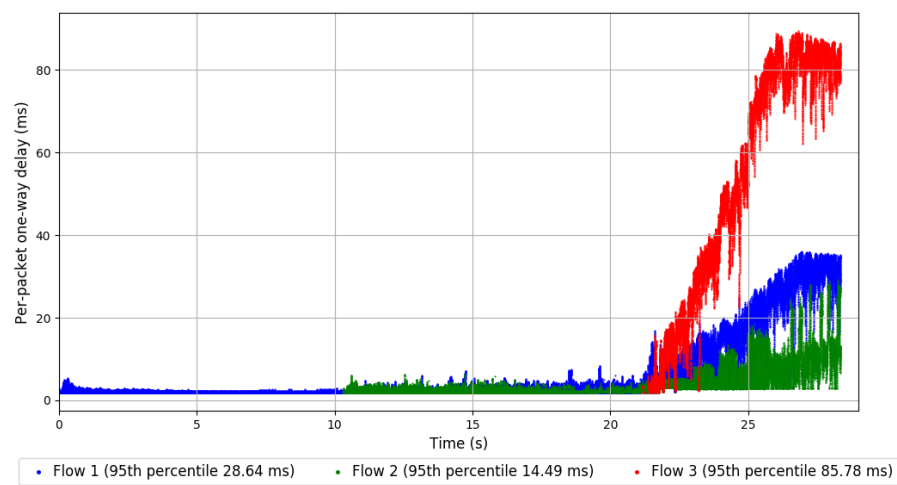
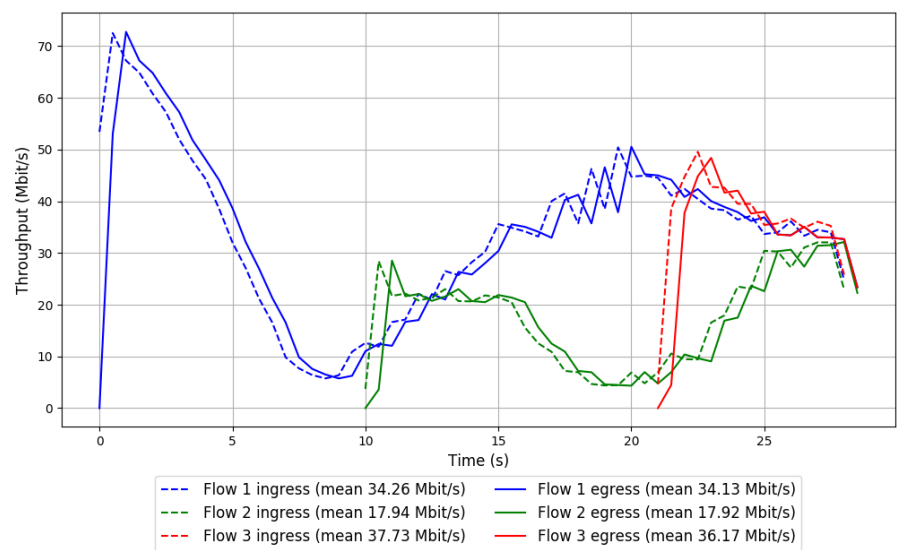


Run 3: Statistics of Indigo-MusesD

Start at: 2019-09-18 23:53:49  
End at: 2019-09-18 23:54:19  
Local clock offset: -11.673 ms  
Remote clock offset: -1.269 ms

# Below is generated by plot.py at 2019-09-19 01:08:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 54.68 Mbit/s  
95th percentile per-packet one-way delay: 77.346 ms  
Loss rate: 1.01%  
-- Flow 1:  
Average throughput: 34.13 Mbit/s  
95th percentile per-packet one-way delay: 28.636 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 17.92 Mbit/s  
95th percentile per-packet one-way delay: 14.491 ms  
Loss rate: 0.18%  
-- Flow 3:  
Average throughput: 36.17 Mbit/s  
95th percentile per-packet one-way delay: 85.782 ms  
Loss rate: 4.20%

Run 3: Report of Indigo-MusesD — Data Link

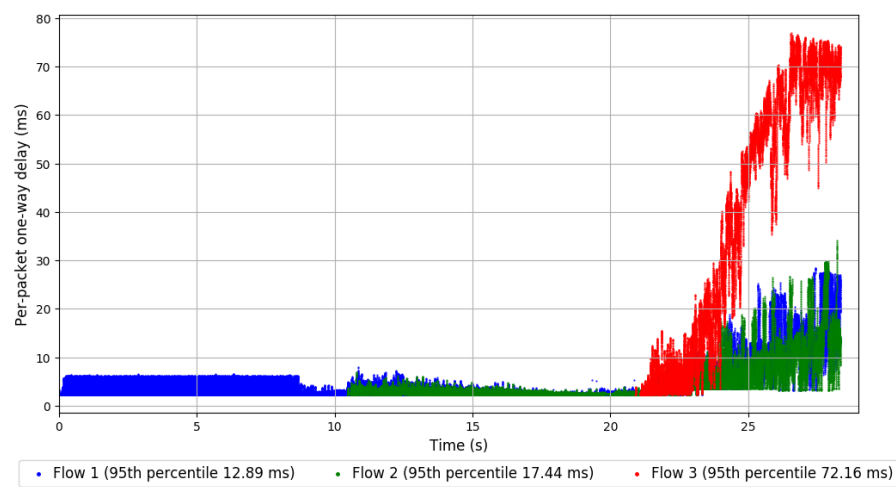
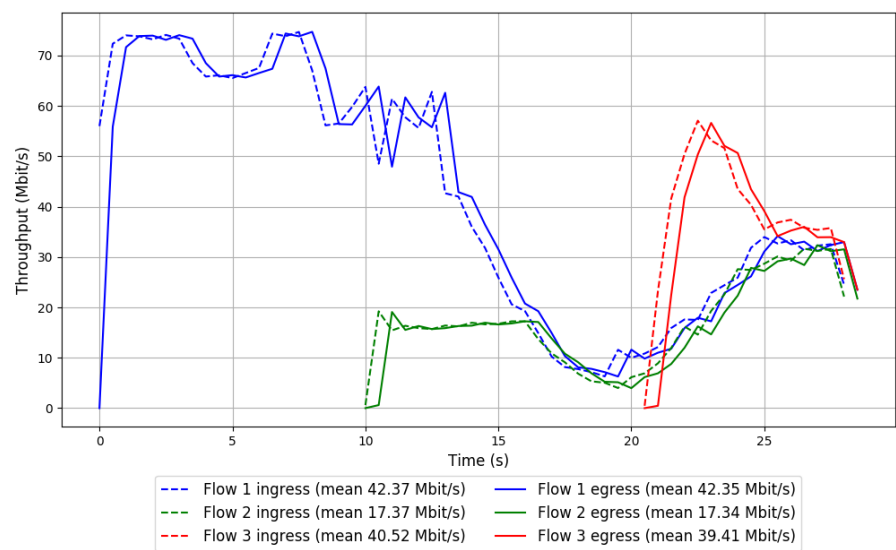


Run 4: Statistics of Indigo-MusesD

Start at: 2019-09-19 00:21:23  
End at: 2019-09-19 00:21:53  
Local clock offset: -7.17 ms  
Remote clock offset: -0.249 ms

# Below is generated by plot.py at 2019-09-19 01:08:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 63.65 Mbit/s  
95th percentile per-packet one-way delay: 55.815 ms  
Loss rate: 0.54%  
-- Flow 1:  
Average throughput: 42.35 Mbit/s  
95th percentile per-packet one-way delay: 12.891 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 17.34 Mbit/s  
95th percentile per-packet one-way delay: 17.439 ms  
Loss rate: 0.18%  
-- Flow 3:  
Average throughput: 39.41 Mbit/s  
95th percentile per-packet one-way delay: 72.156 ms  
Loss rate: 2.81%

Run 4: Report of Indigo-MusesD — Data Link

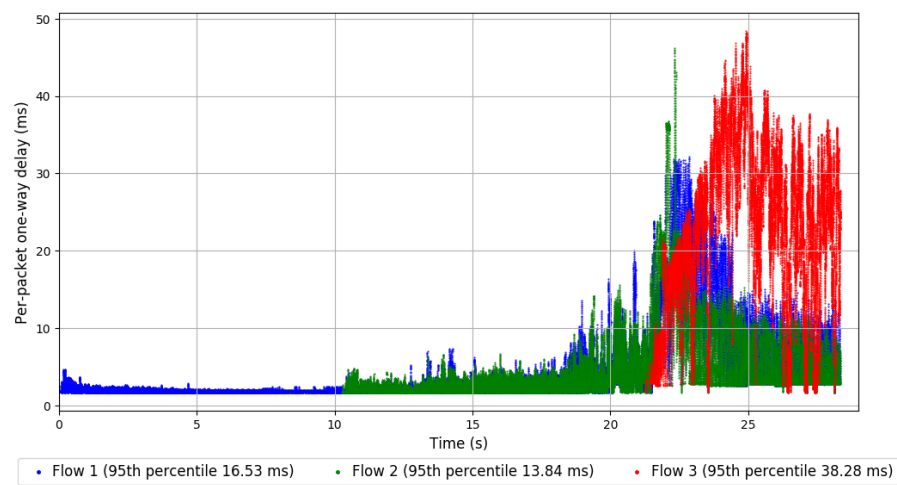
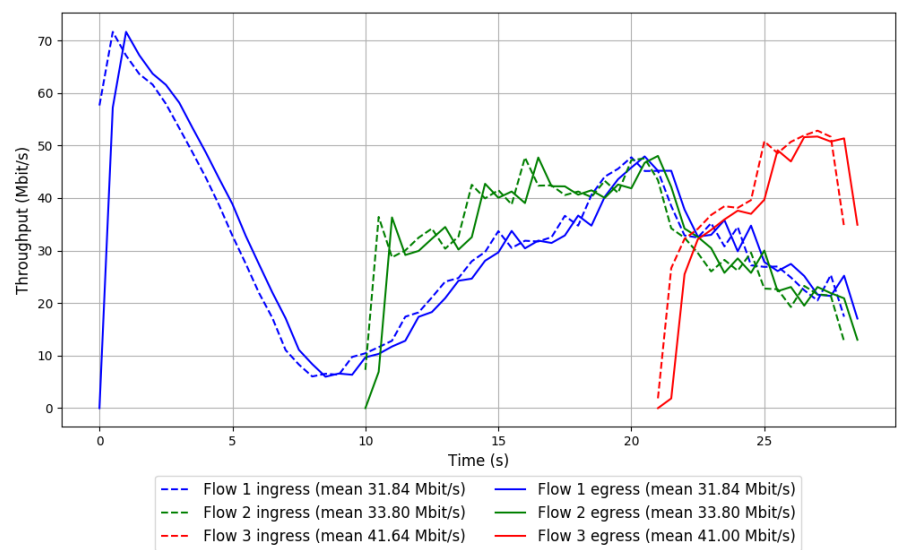


Run 5: Statistics of Indigo-MusesD

Start at: 2019-09-19 00:48:56  
End at: 2019-09-19 00:49:26  
Local clock offset: -4.024 ms  
Remote clock offset: -0.459 ms

# Below is generated by plot.py at 2019-09-19 01:08:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 63.61 Mbit/s  
95th percentile per-packet one-way delay: 29.350 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 31.84 Mbit/s  
95th percentile per-packet one-way delay: 16.532 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 33.80 Mbit/s  
95th percentile per-packet one-way delay: 13.844 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 41.00 Mbit/s  
95th percentile per-packet one-way delay: 38.276 ms  
Loss rate: 1.50%

Run 5: Report of Indigo-MusesD — Data Link

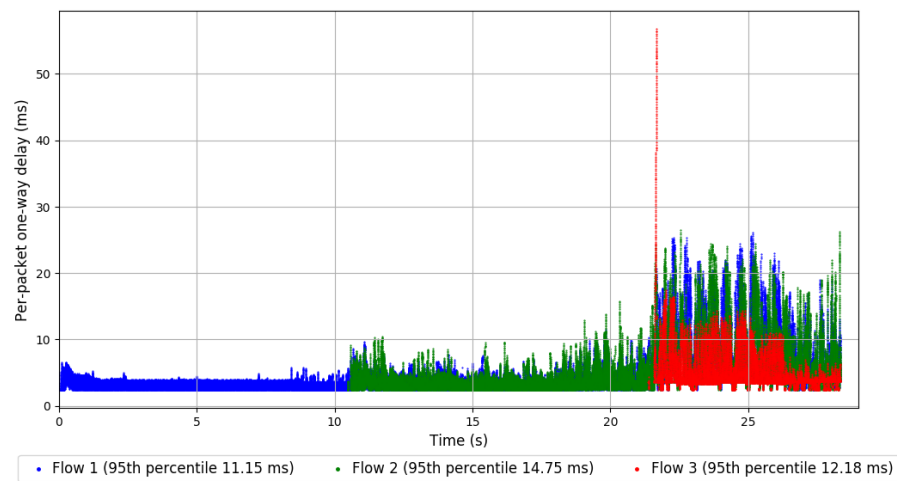
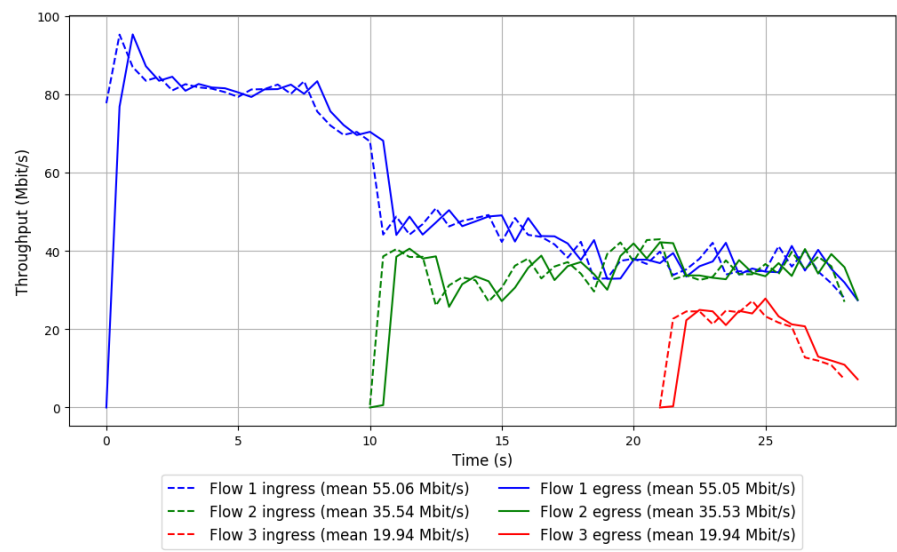


Run 1: Statistics of Indigo-MusesT

Start at: 2019-09-18 22:55:14  
End at: 2019-09-18 22:55:44  
Local clock offset: 2.241 ms  
Remote clock offset: -2.354 ms

# Below is generated by plot.py at 2019-09-19 01:08:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.36 Mbit/s  
95th percentile per-packet one-way delay: 12.558 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 55.05 Mbit/s  
95th percentile per-packet one-way delay: 11.149 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 35.53 Mbit/s  
95th percentile per-packet one-way delay: 14.746 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 19.94 Mbit/s  
95th percentile per-packet one-way delay: 12.175 ms  
Loss rate: 0.00%

Run 1: Report of Indigo-MusesT — Data Link

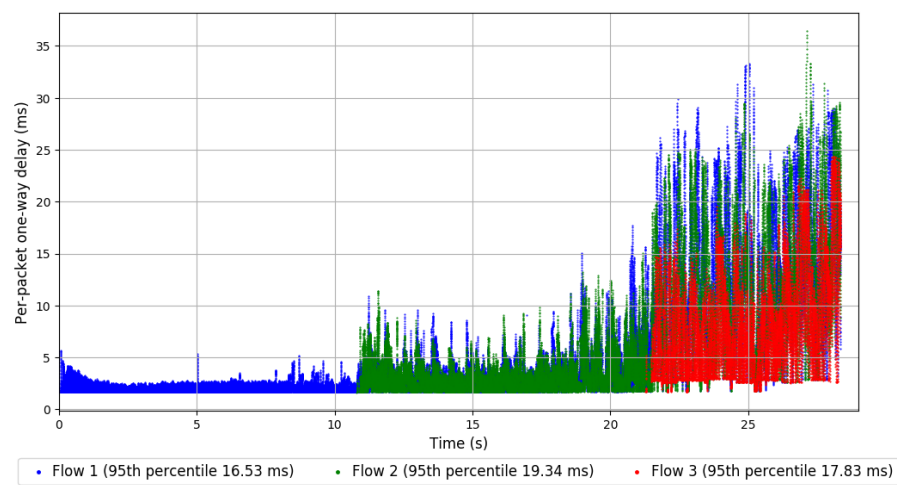
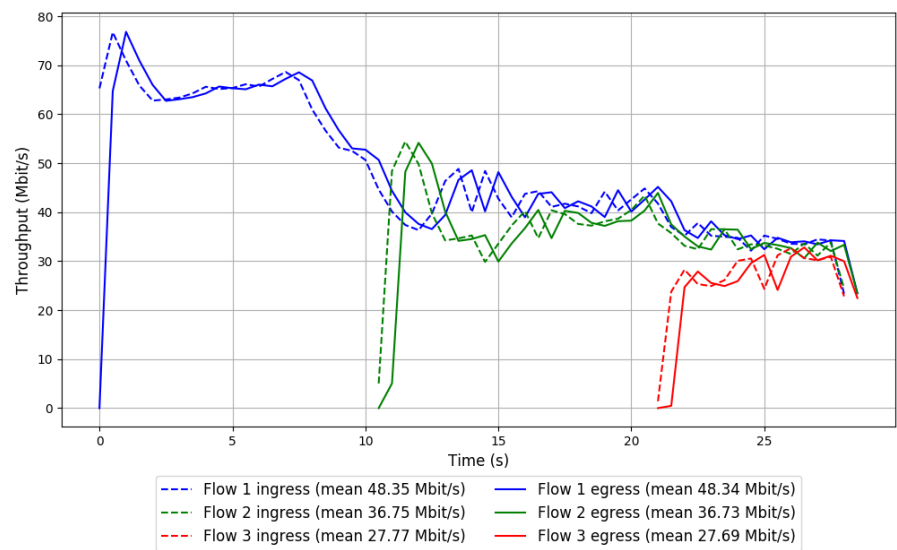


Run 2: Statistics of Indigo-MusesT

Start at: 2019-09-18 23:22:47  
End at: 2019-09-18 23:23:17  
Local clock offset: -7.771 ms  
Remote clock offset: -2.576 ms

# Below is generated by plot.py at 2019-09-19 01:08:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.98 Mbit/s  
95th percentile per-packet one-way delay: 17.733 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 48.34 Mbit/s  
95th percentile per-packet one-way delay: 16.533 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 36.73 Mbit/s  
95th percentile per-packet one-way delay: 19.339 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 27.69 Mbit/s  
95th percentile per-packet one-way delay: 17.833 ms  
Loss rate: 0.32%

Run 2: Report of Indigo-MusesT — Data Link

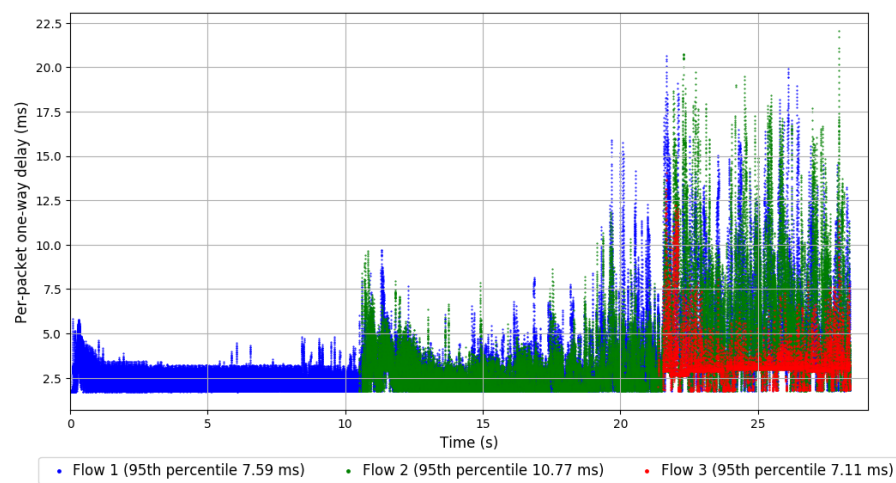
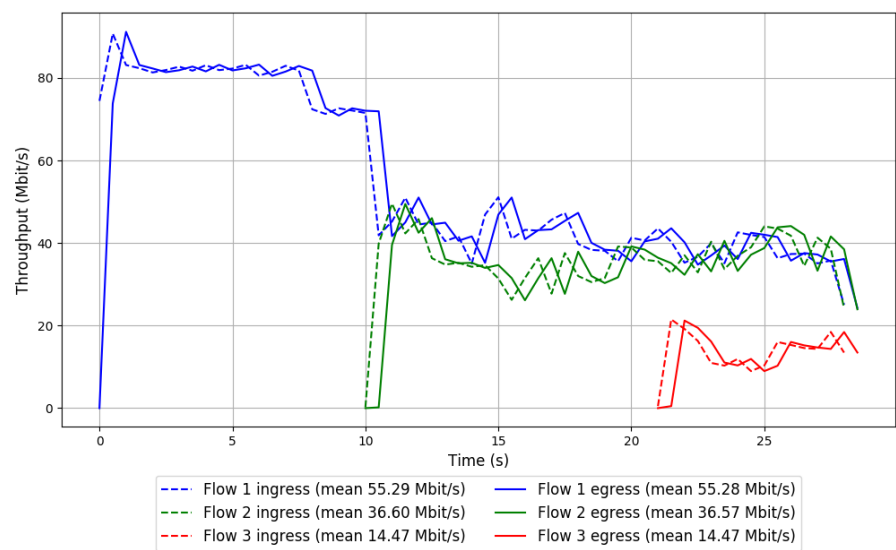


Run 3: Statistics of Indigo-MusesT

Start at: 2019-09-18 23:50:19  
End at: 2019-09-18 23:50:49  
Local clock offset: -11.305 ms  
Remote clock offset: -1.616 ms

# Below is generated by plot.py at 2019-09-19 01:08:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.88 Mbit/s  
95th percentile per-packet one-way delay: 8.757 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 55.28 Mbit/s  
95th percentile per-packet one-way delay: 7.588 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 36.57 Mbit/s  
95th percentile per-packet one-way delay: 10.769 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 14.47 Mbit/s  
95th percentile per-packet one-way delay: 7.107 ms  
Loss rate: 0.00%

Run 3: Report of Indigo-MusesT — Data Link

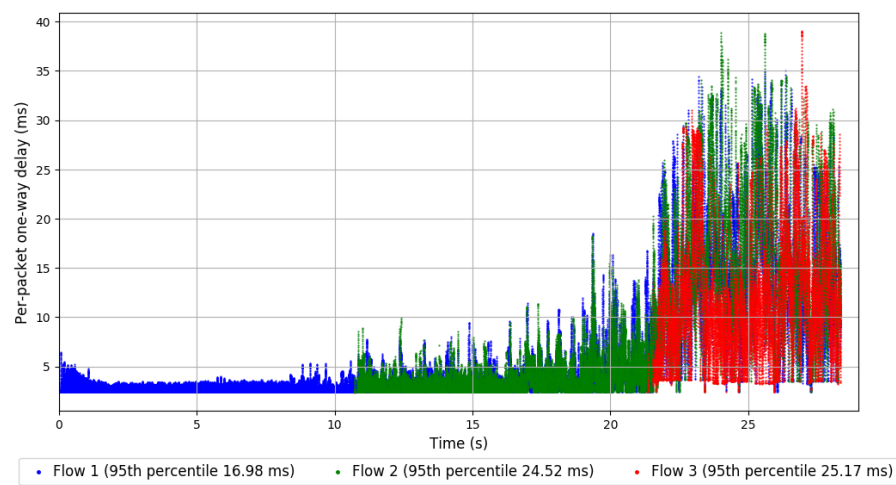
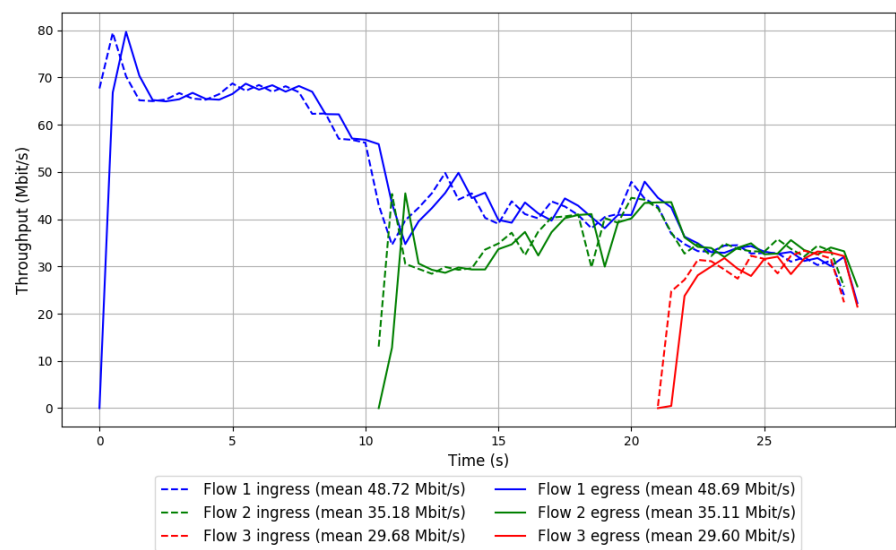


Run 4: Statistics of Indigo-MusesT

Start at: 2019-09-19 00:17:53  
End at: 2019-09-19 00:18:23  
Local clock offset: -7.298 ms  
Remote clock offset: -0.299 ms

# Below is generated by plot.py at 2019-09-19 01:09:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.83 Mbit/s  
95th percentile per-packet one-way delay: 21.187 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 48.69 Mbit/s  
95th percentile per-packet one-way delay: 16.984 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 35.11 Mbit/s  
95th percentile per-packet one-way delay: 24.518 ms  
Loss rate: 0.18%  
-- Flow 3:  
Average throughput: 29.60 Mbit/s  
95th percentile per-packet one-way delay: 25.172 ms  
Loss rate: 0.30%

Run 4: Report of Indigo-MusesT — Data Link

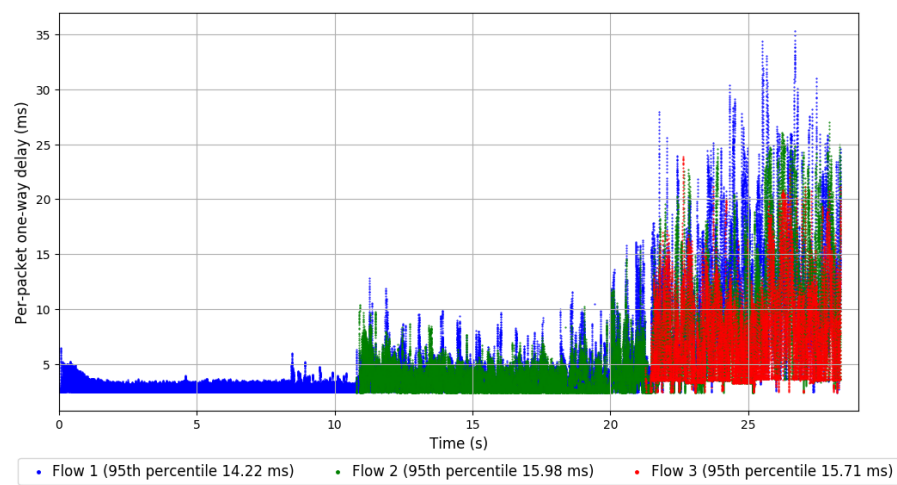
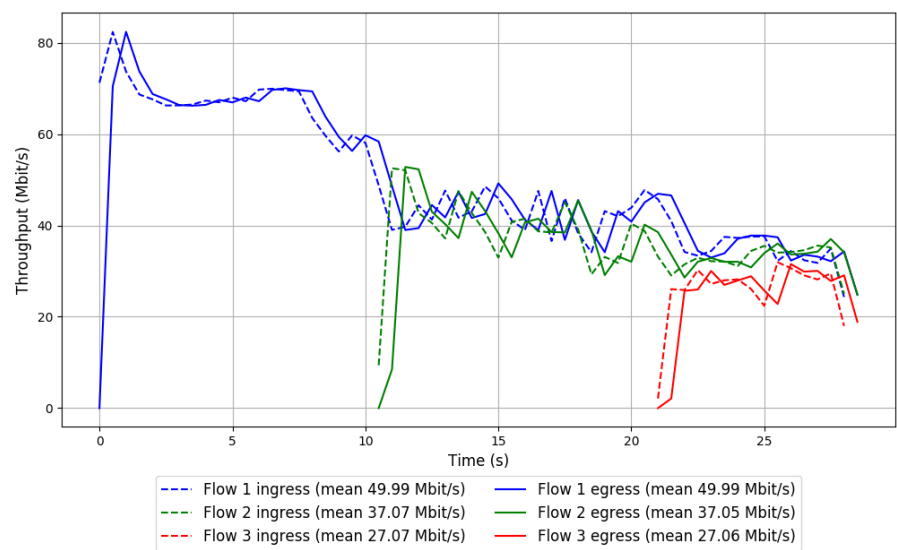


Run 5: Statistics of Indigo-MusesT

Start at: 2019-09-19 00:45:25  
End at: 2019-09-19 00:45:55  
Local clock offset: -3.561 ms  
Remote clock offset: -0.352 ms

# Below is generated by plot.py at 2019-09-19 01:09:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.71 Mbit/s  
95th percentile per-packet one-way delay: 14.975 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 49.99 Mbit/s  
95th percentile per-packet one-way delay: 14.222 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 37.05 Mbit/s  
95th percentile per-packet one-way delay: 15.978 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 27.06 Mbit/s  
95th percentile per-packet one-way delay: 15.710 ms  
Loss rate: 0.00%

Run 5: Report of Indigo-MusesT — Data Link

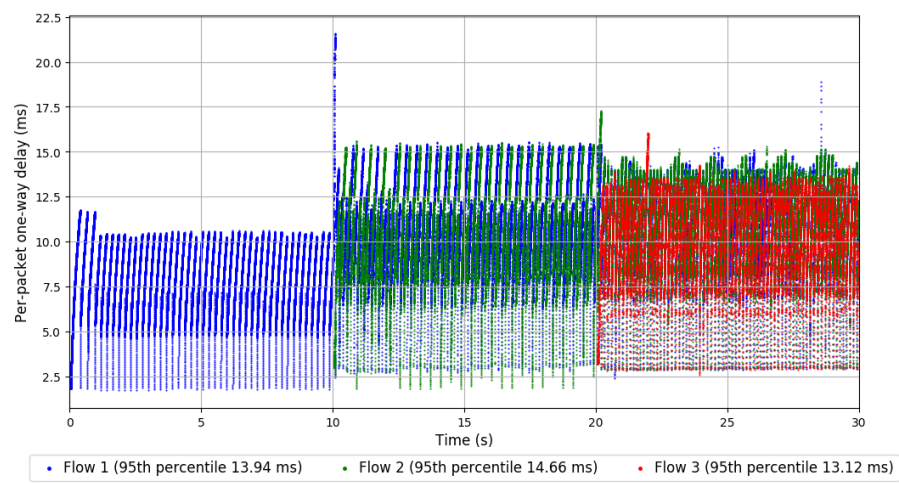
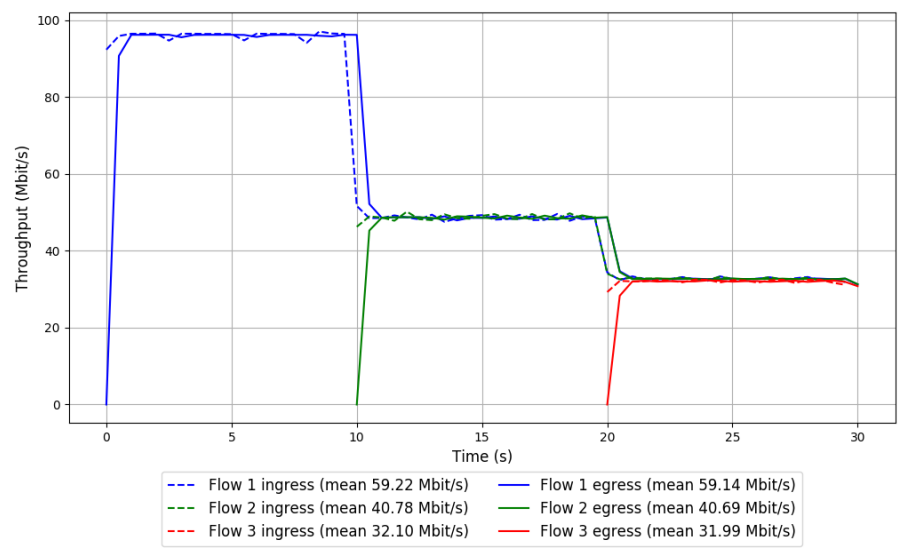


```
Run 1: Statistics of LEDBAT

Start at: 2019-09-18 23:06:47
End at: 2019-09-18 23:07:17
Local clock offset: -3.061 ms
Remote clock offset: -2.681 ms

# Below is generated by plot.py at 2019-09-19 01:09:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.86 Mbit/s
95th percentile per-packet one-way delay: 14.186 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 59.14 Mbit/s
95th percentile per-packet one-way delay: 13.936 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 40.69 Mbit/s
95th percentile per-packet one-way delay: 14.659 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 31.99 Mbit/s
95th percentile per-packet one-way delay: 13.117 ms
Loss rate: 0.40%
```

Run 1: Report of LEDBAT — Data Link

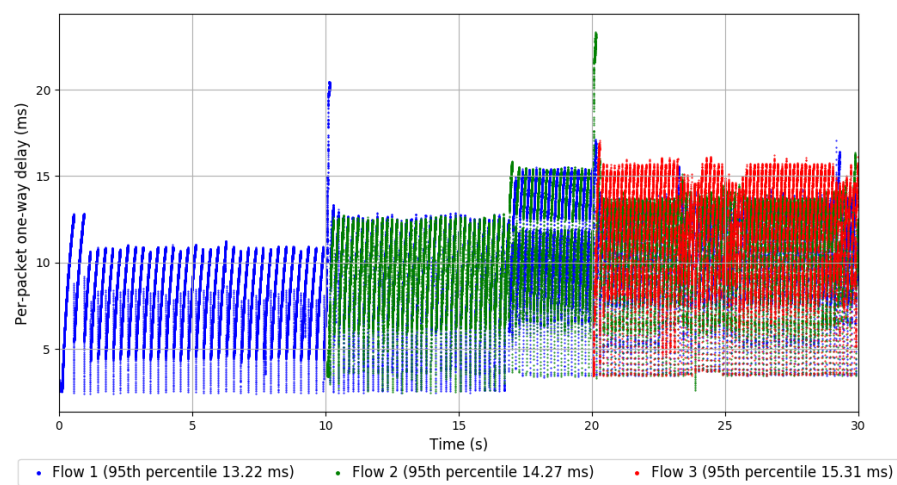
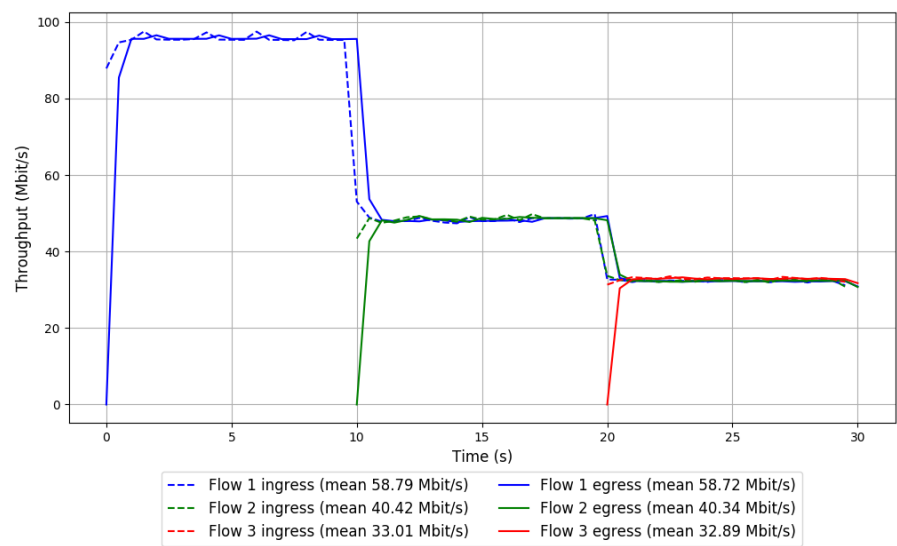


Run 2: Statistics of LEDBAT

Start at: 2019-09-18 23:34:18  
End at: 2019-09-18 23:34:49  
Local clock offset: -8.636 ms  
Remote clock offset: -2.008 ms

# Below is generated by plot.py at 2019-09-19 01:09:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.51 Mbit/s  
95th percentile per-packet one-way delay: 14.372 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 58.72 Mbit/s  
95th percentile per-packet one-way delay: 13.218 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 40.34 Mbit/s  
95th percentile per-packet one-way delay: 14.267 ms  
Loss rate: 0.23%  
-- Flow 3:  
Average throughput: 32.89 Mbit/s  
95th percentile per-packet one-way delay: 15.307 ms  
Loss rate: 0.41%

Run 2: Report of LEDBAT — Data Link

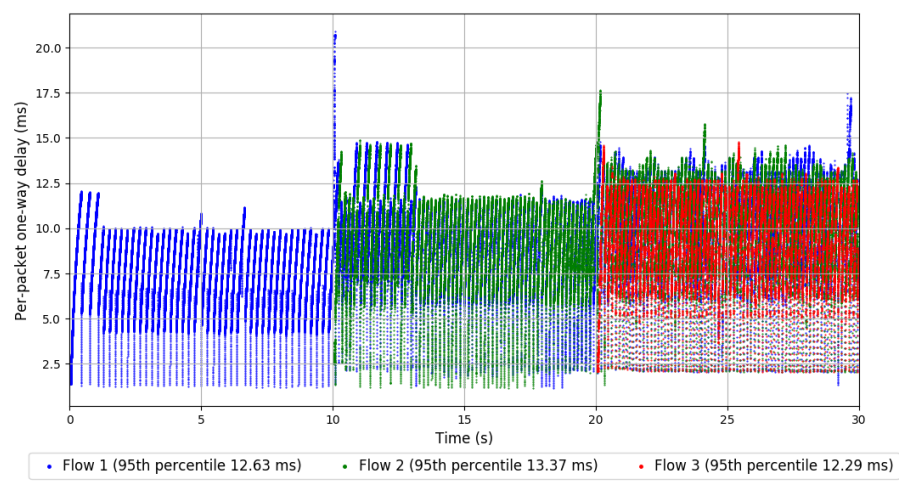
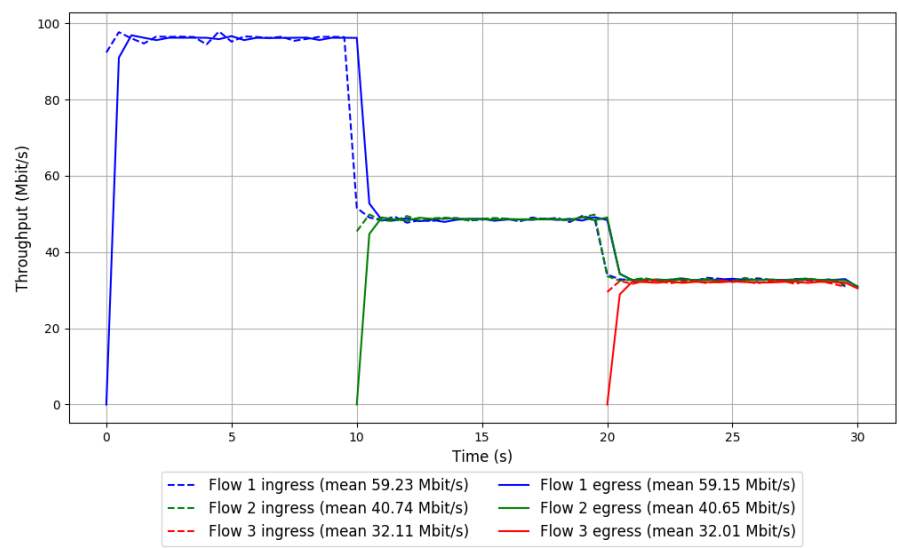


Run 3: Statistics of LEDBAT

Start at: 2019-09-19 00:01:52  
End at: 2019-09-19 00:02:22  
Local clock offset: -11.717 ms  
Remote clock offset: -0.643 ms

# Below is generated by plot.py at 2019-09-19 01:09:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.85 Mbit/s  
95th percentile per-packet one-way delay: 12.885 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 59.15 Mbit/s  
95th percentile per-packet one-way delay: 12.630 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 40.65 Mbit/s  
95th percentile per-packet one-way delay: 13.371 ms  
Loss rate: 0.25%  
-- Flow 3:  
Average throughput: 32.01 Mbit/s  
95th percentile per-packet one-way delay: 12.289 ms  
Loss rate: 0.37%

Run 3: Report of LEDBAT — Data Link

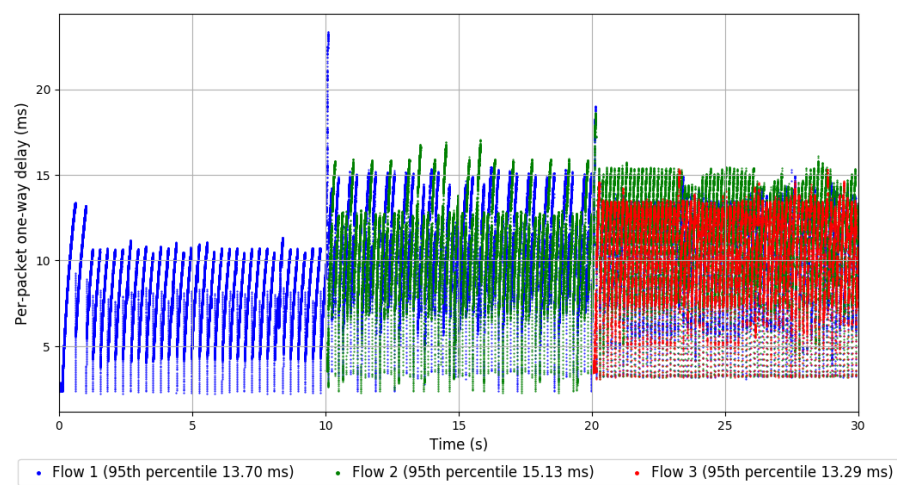
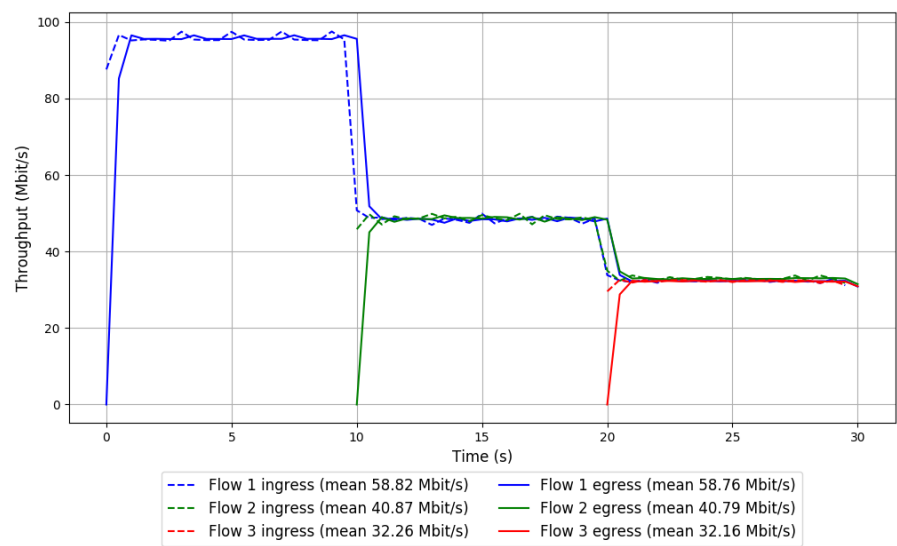


Run 4: Statistics of LEDBAT

Start at: 2019-09-19 00:29:25  
End at: 2019-09-19 00:29:55  
Local clock offset: -7.018 ms  
Remote clock offset: -0.251 ms

# Below is generated by plot.py at 2019-09-19 01:10:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.60 Mbit/s  
95th percentile per-packet one-way delay: 14.406 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 58.76 Mbit/s  
95th percentile per-packet one-way delay: 13.701 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 40.79 Mbit/s  
95th percentile per-packet one-way delay: 15.126 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 32.16 Mbit/s  
95th percentile per-packet one-way delay: 13.294 ms  
Loss rate: 0.37%

Run 4: Report of LEDBAT — Data Link

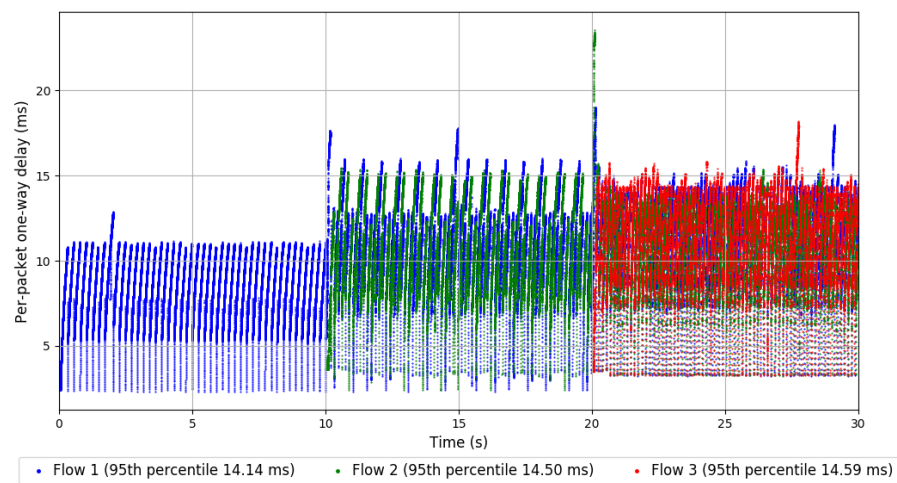
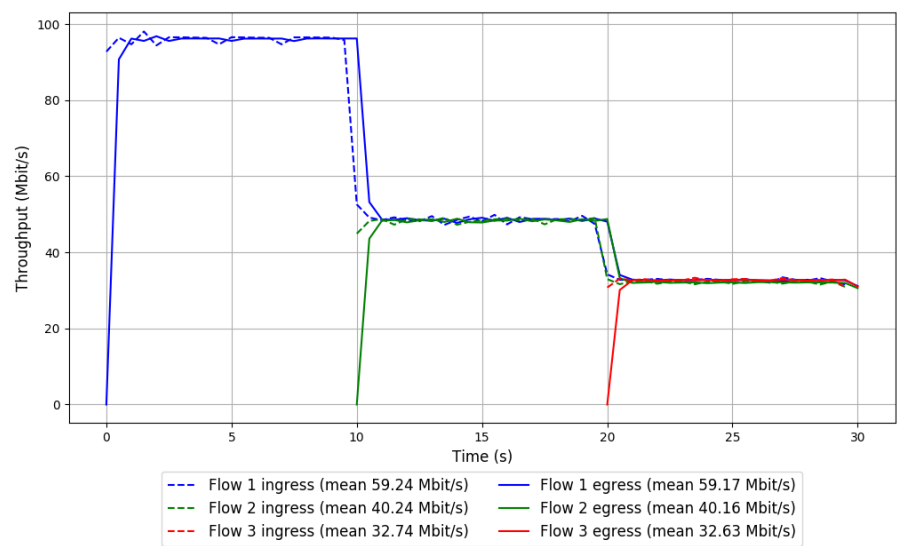


Run 5: Statistics of LEDBAT

Start at: 2019-09-19 00:56:57  
End at: 2019-09-19 00:57:27  
Local clock offset: -2.697 ms  
Remote clock offset: -0.379 ms

# Below is generated by plot.py at 2019-09-19 01:10:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.75 Mbit/s  
95th percentile per-packet one-way delay: 14.368 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 59.17 Mbit/s  
95th percentile per-packet one-way delay: 14.140 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 40.16 Mbit/s  
95th percentile per-packet one-way delay: 14.504 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 32.63 Mbit/s  
95th percentile per-packet one-way delay: 14.593 ms  
Loss rate: 0.34%

Run 5: Report of LEDBAT — Data Link

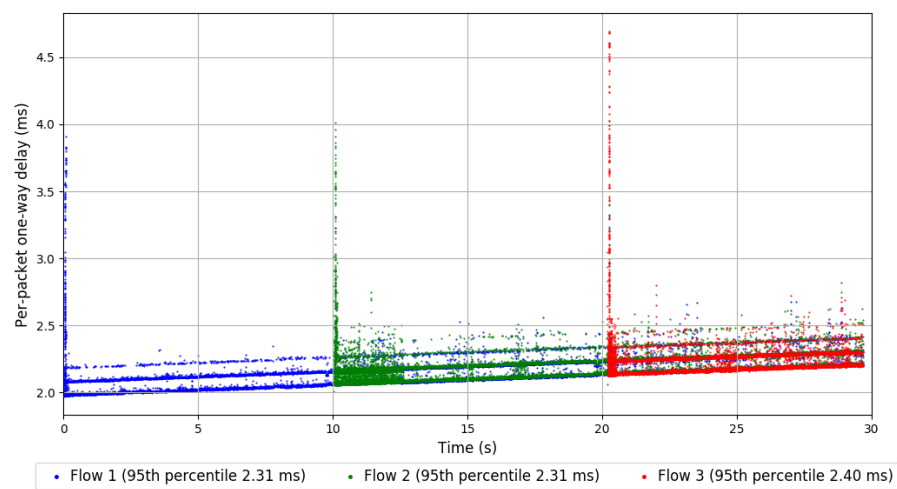
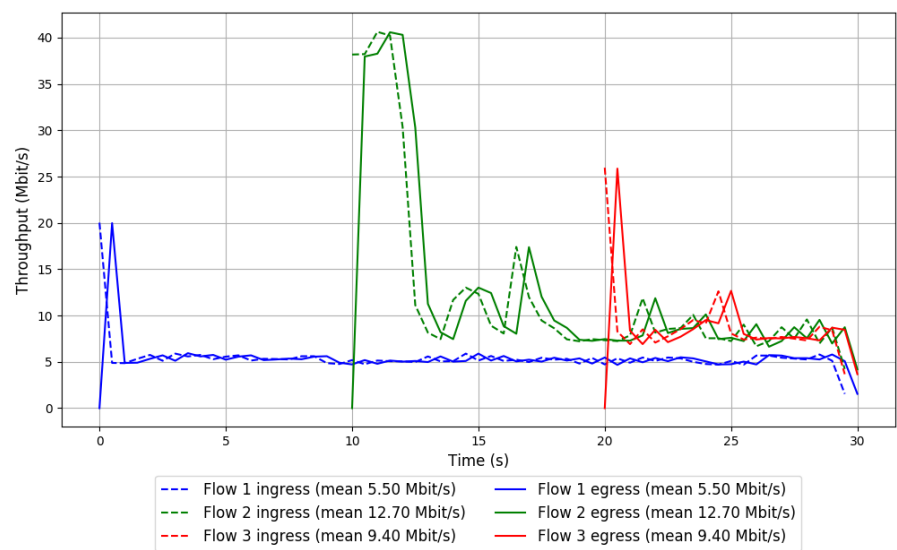


Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-09-18 23:07:58  
End at: 2019-09-18 23:08:28  
Local clock offset: -3.551 ms  
Remote clock offset: -2.773 ms

# Below is generated by plot.py at 2019-09-19 01:10:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 16.90 Mbit/s  
95th percentile per-packet one-way delay: 2.336 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 5.50 Mbit/s  
95th percentile per-packet one-way delay: 2.314 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 12.70 Mbit/s  
95th percentile per-packet one-way delay: 2.311 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 9.40 Mbit/s  
95th percentile per-packet one-way delay: 2.396 ms  
Loss rate: 0.03%

Run 1: Report of Muses\_DecisionTree — Data Link

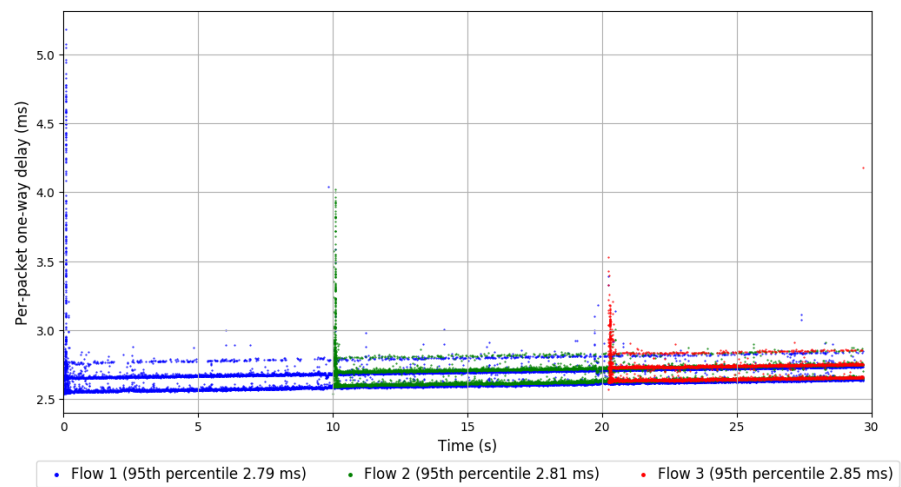
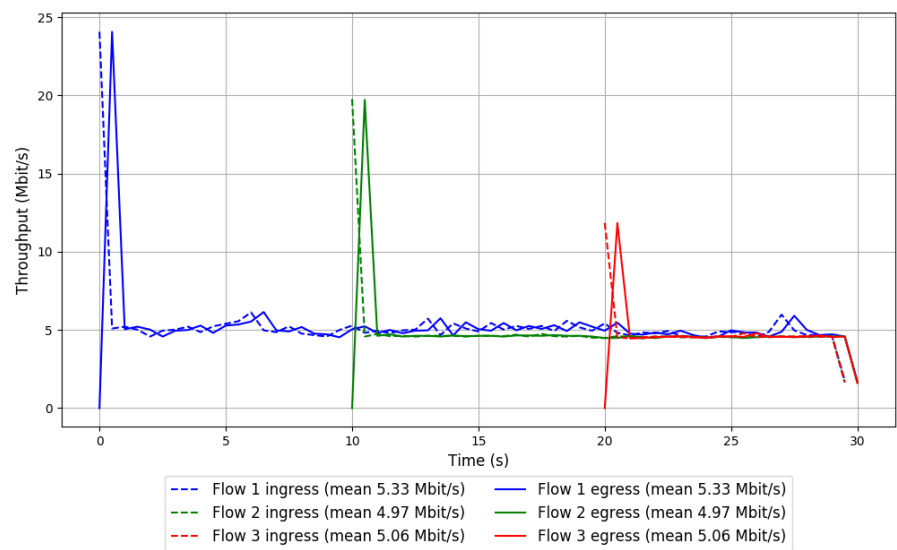


Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-09-18 23:35:29  
End at: 2019-09-18 23:35:59  
Local clock offset: -8.758 ms  
Remote clock offset: -1.942 ms

# Below is generated by plot.py at 2019-09-19 01:10:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 10.24 Mbit/s  
95th percentile per-packet one-way delay: 2.808 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 5.33 Mbit/s  
95th percentile per-packet one-way delay: 2.794 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 4.97 Mbit/s  
95th percentile per-packet one-way delay: 2.808 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 5.06 Mbit/s  
95th percentile per-packet one-way delay: 2.847 ms  
Loss rate: 0.05%

Run 2: Report of Muses\_DecisionTree — Data Link

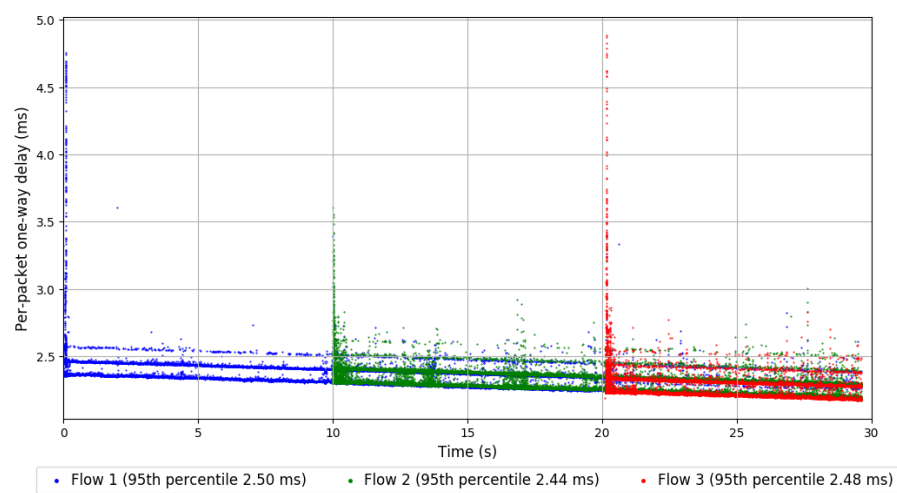
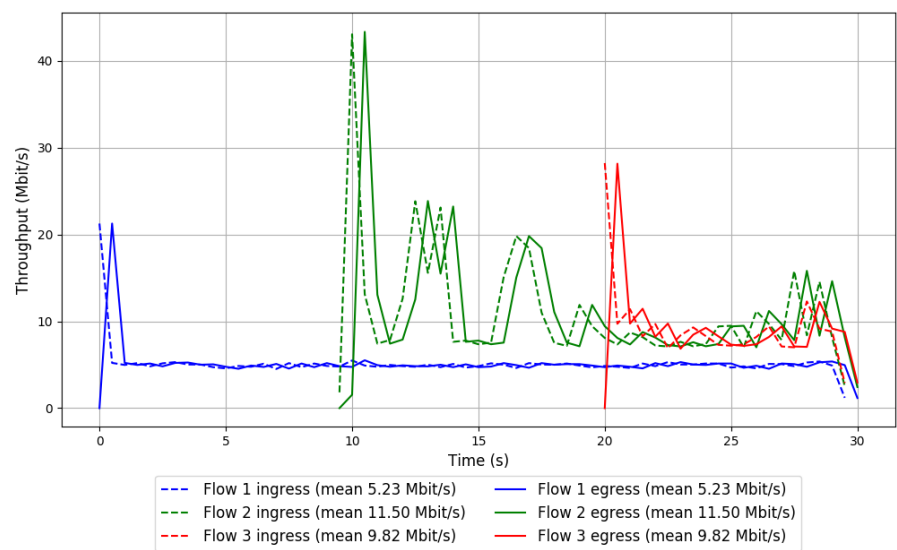


Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-09-19 00:03:03  
End at: 2019-09-19 00:03:33  
Local clock offset: -10.351 ms  
Remote clock offset: -0.745 ms

# Below is generated by plot.py at 2019-09-19 01:10:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 16.01 Mbit/s  
95th percentile per-packet one-way delay: 2.471 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 5.23 Mbit/s  
95th percentile per-packet one-way delay: 2.496 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 11.50 Mbit/s  
95th percentile per-packet one-way delay: 2.444 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 9.82 Mbit/s  
95th percentile per-packet one-way delay: 2.484 ms  
Loss rate: 0.01%

Run 3: Report of Muses\_DecisionTree — Data Link

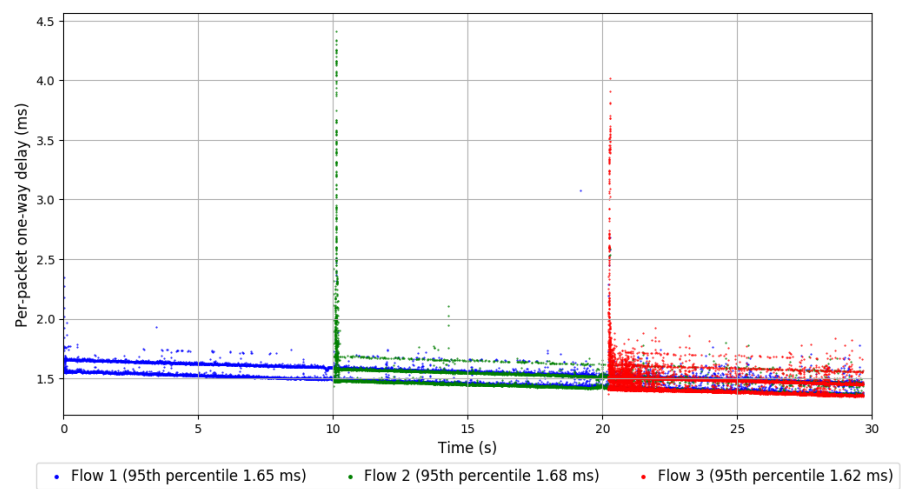
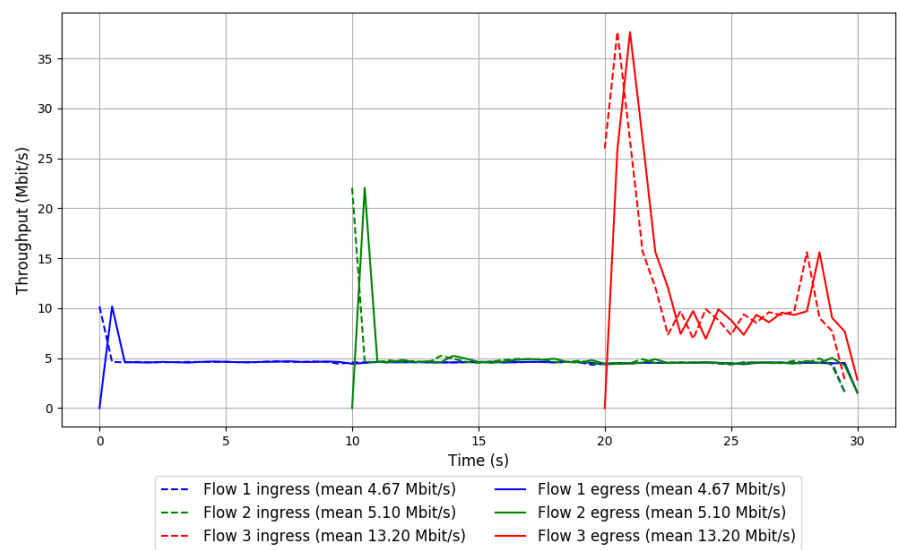


Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-09-19 00:30:36  
End at: 2019-09-19 00:31:06  
Local clock offset: -7.688 ms  
Remote clock offset: -0.366 ms

# Below is generated by plot.py at 2019-09-19 01:10:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.25 Mbit/s  
95th percentile per-packet one-way delay: 1.647 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 4.67 Mbit/s  
95th percentile per-packet one-way delay: 1.645 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 5.10 Mbit/s  
95th percentile per-packet one-way delay: 1.681 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 13.20 Mbit/s  
95th percentile per-packet one-way delay: 1.618 ms  
Loss rate: 0.02%

Run 4: Report of Muses\_DecisionTree — Data Link

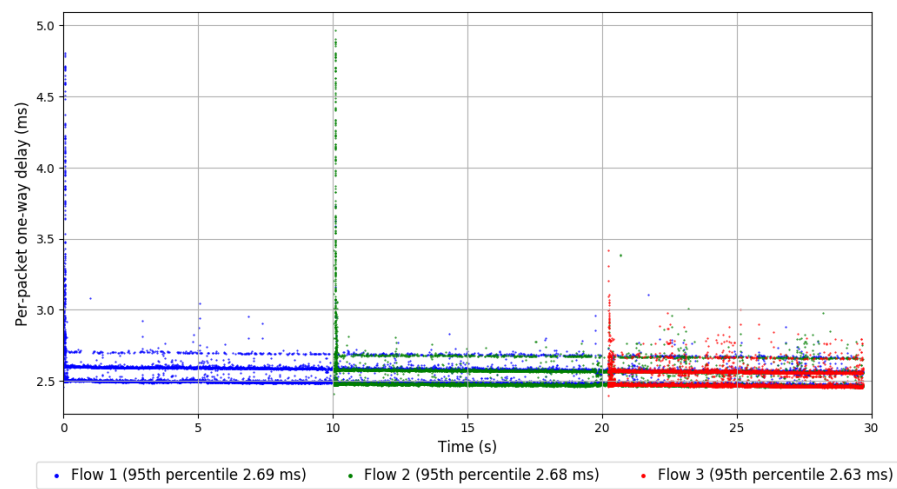
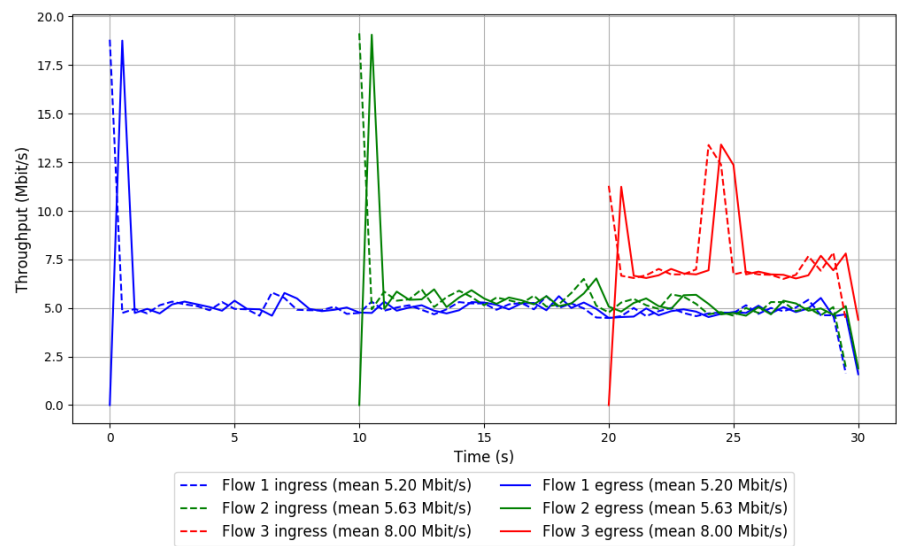


Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-09-19 00:58:08  
End at: 2019-09-19 00:58:38  
Local clock offset: -2.629 ms  
Remote clock offset: -0.466 ms

# Below is generated by plot.py at 2019-09-19 01:10:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 11.47 Mbit/s  
95th percentile per-packet one-way delay: 2.678 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 5.20 Mbit/s  
95th percentile per-packet one-way delay: 2.686 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 5.63 Mbit/s  
95th percentile per-packet one-way delay: 2.679 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 8.00 Mbit/s  
95th percentile per-packet one-way delay: 2.628 ms  
Loss rate: 0.03%

Run 5: Report of Muses\_DecisionTree — Data Link

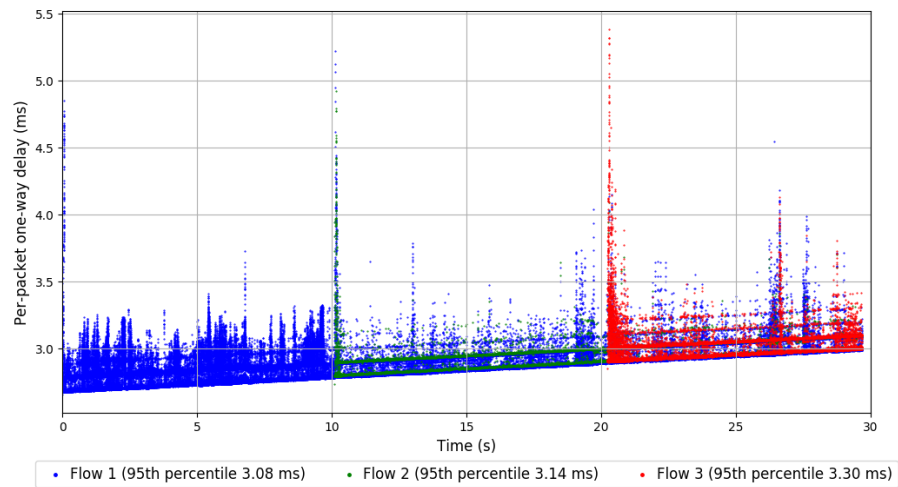
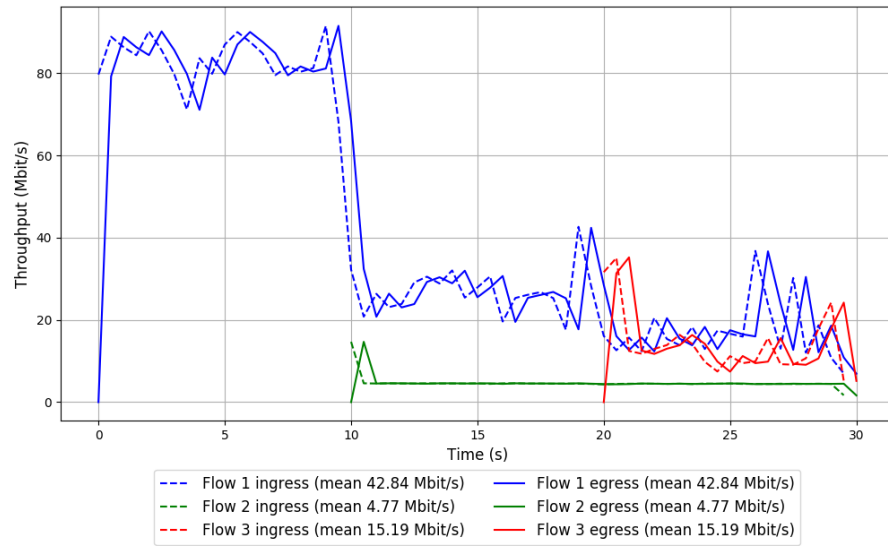


```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-09-18 23:03:25
End at: 2019-09-18 23:03:55
Local clock offset: -0.261 ms
Remote clock offset: -2.567 ms

# Below is generated by plot.py at 2019-09-19 01:10:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 50.83 Mbit/s
95th percentile per-packet one-way delay: 3.114 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 42.84 Mbit/s
95th percentile per-packet one-way delay: 3.084 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 4.77 Mbit/s
95th percentile per-packet one-way delay: 3.137 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 15.19 Mbit/s
95th percentile per-packet one-way delay: 3.302 ms
Loss rate: 0.03%
```

Run 1: Report of Muses\_DecisionTreeH0 — Data Link

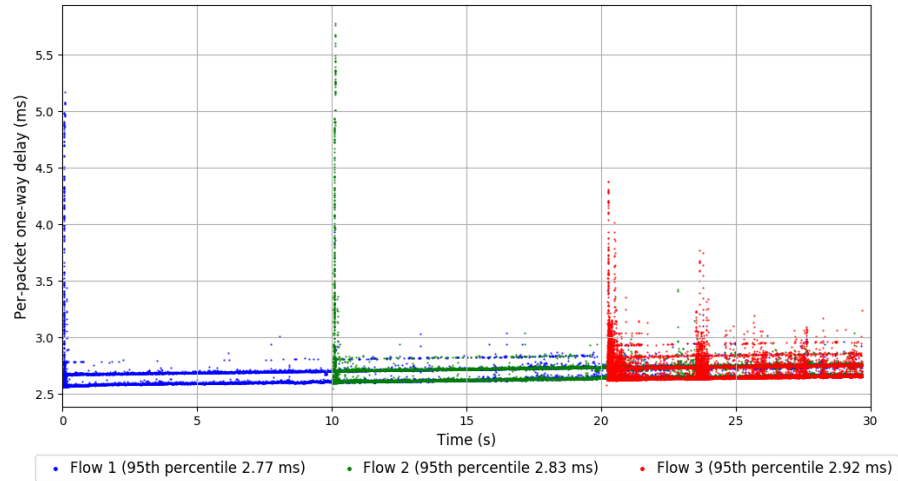
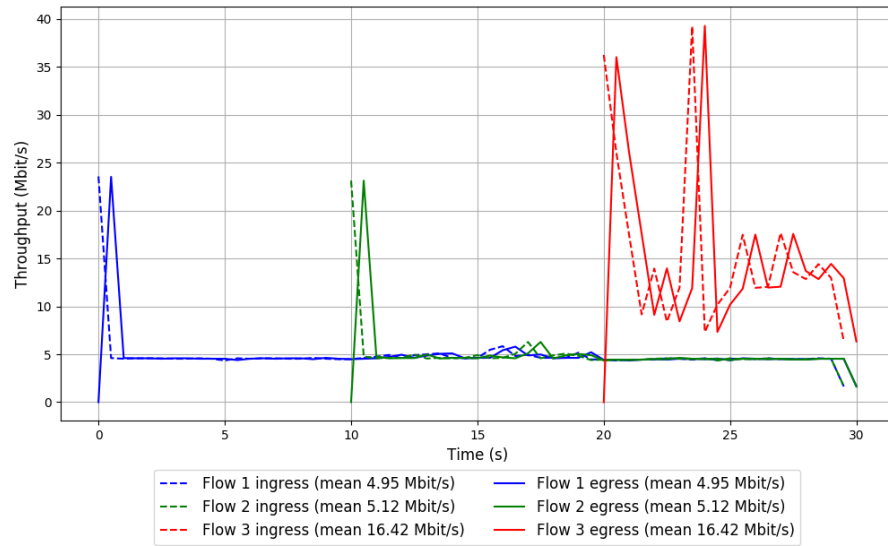


Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-18 23:30:57  
End at: 2019-09-18 23:31:27  
Local clock offset: -8.19 ms  
Remote clock offset: -2.201 ms

# Below is generated by plot.py at 2019-09-19 01:10:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 13.58 Mbit/s  
95th percentile per-packet one-way delay: 2.846 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 4.95 Mbit/s  
95th percentile per-packet one-way delay: 2.767 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 5.12 Mbit/s  
95th percentile per-packet one-way delay: 2.834 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 16.42 Mbit/s  
95th percentile per-packet one-way delay: 2.925 ms  
Loss rate: 0.03%

## Run 2: Report of Muses\_DecisionTreeH0 — Data Link

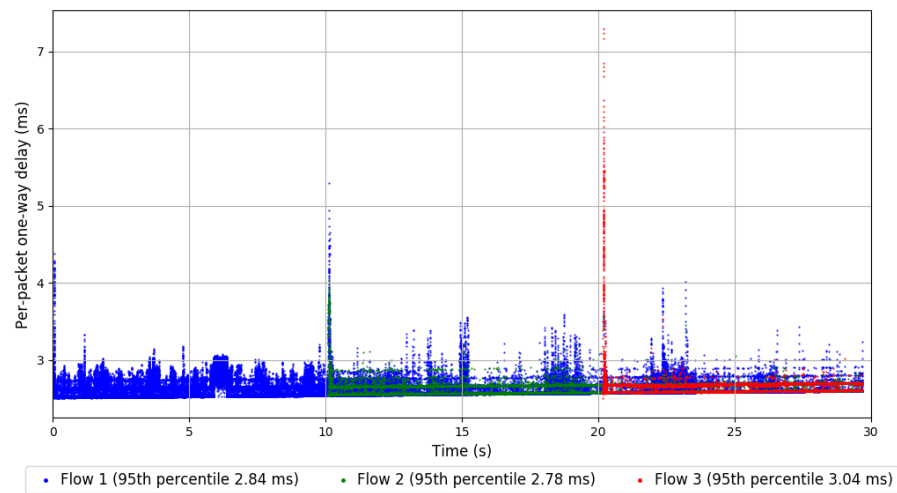
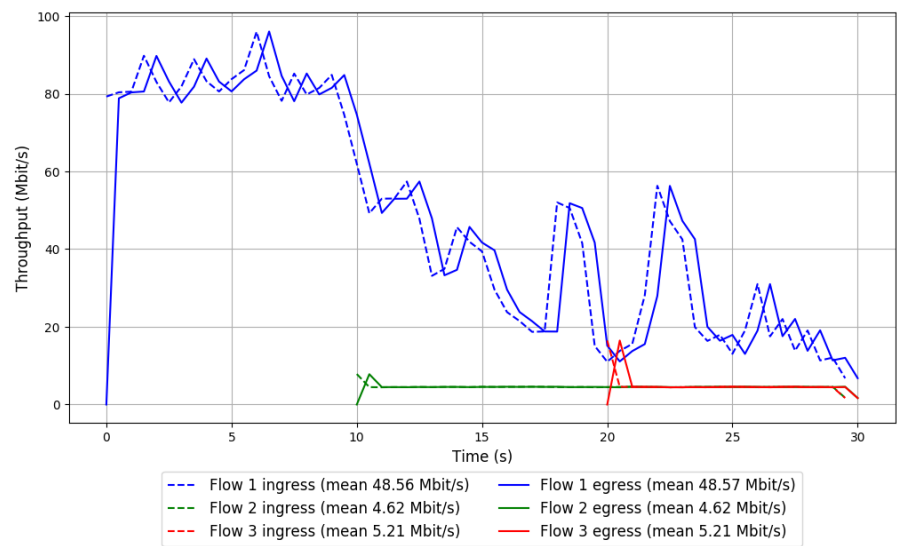


Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-18 23:58:29  
End at: 2019-09-18 23:58:59  
Local clock offset: -11.415 ms  
Remote clock offset: -0.835 ms

# Below is generated by plot.py at 2019-09-19 01:10:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 53.29 Mbit/s  
95th percentile per-packet one-way delay: 2.840 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 48.57 Mbit/s  
95th percentile per-packet one-way delay: 2.840 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 4.62 Mbit/s  
95th percentile per-packet one-way delay: 2.778 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 5.21 Mbit/s  
95th percentile per-packet one-way delay: 3.038 ms  
Loss rate: 0.05%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link

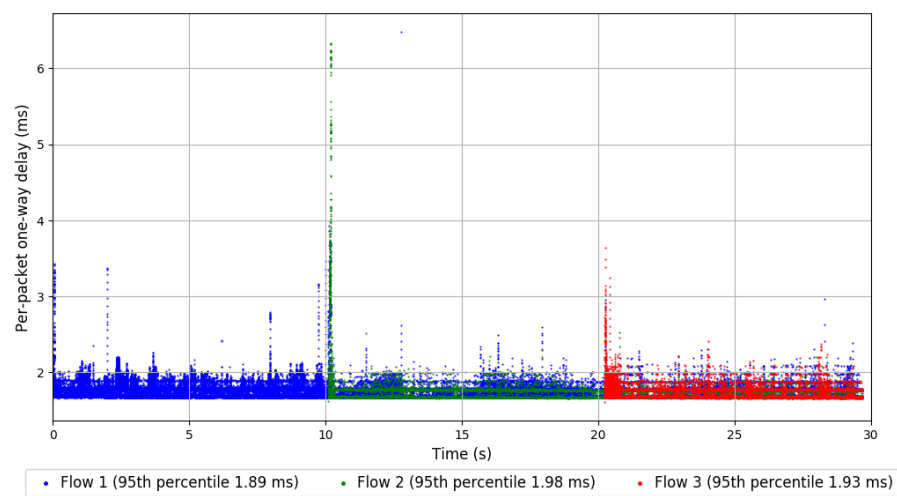
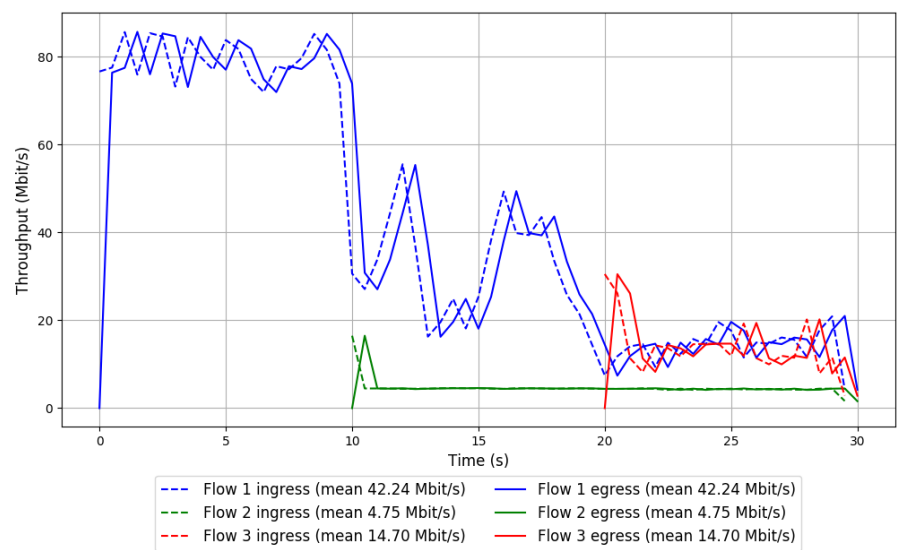


Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-19 00:26:03  
End at: 2019-09-19 00:26:33  
Local clock offset: -7.733 ms  
Remote clock offset: -0.234 ms

# Below is generated by plot.py at 2019-09-19 01:10:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 50.06 Mbit/s  
95th percentile per-packet one-way delay: 1.889 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 42.24 Mbit/s  
95th percentile per-packet one-way delay: 1.885 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 4.75 Mbit/s  
95th percentile per-packet one-way delay: 1.984 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 14.70 Mbit/s  
95th percentile per-packet one-way delay: 1.927 ms  
Loss rate: 0.04%

Run 4: Report of Muses\_DecisionTreeH0 — Data Link

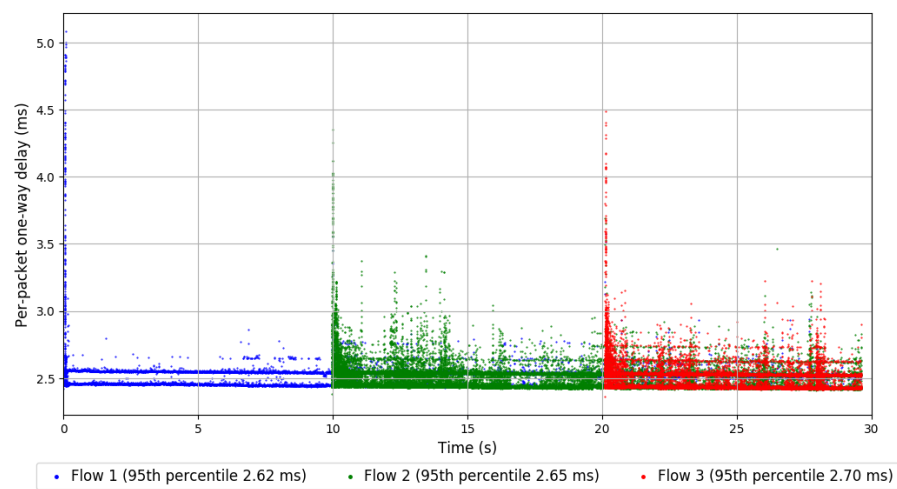
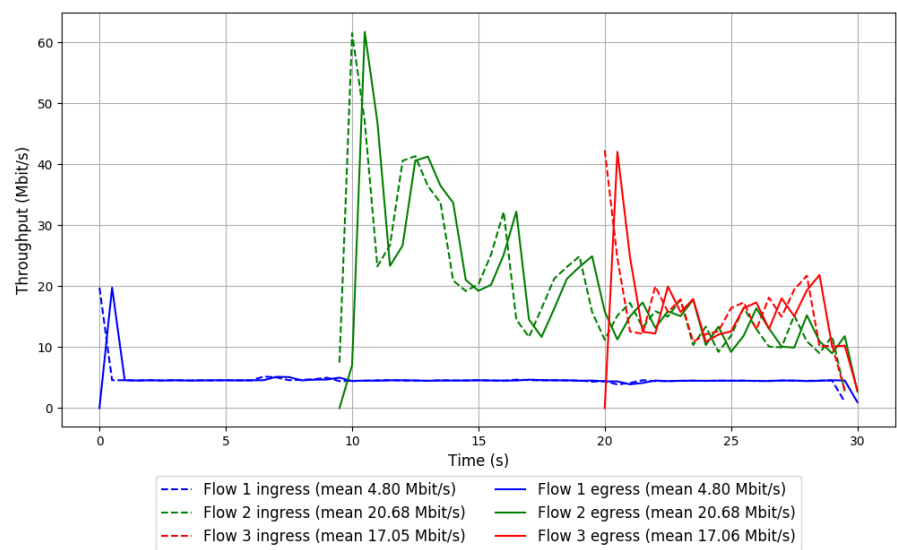


Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-19 00:53:35  
End at: 2019-09-19 00:54:05  
Local clock offset: -2.97 ms  
Remote clock offset: -0.454 ms

# Below is generated by plot.py at 2019-09-19 01:10:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 24.02 Mbit/s  
95th percentile per-packet one-way delay: 2.650 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 4.80 Mbit/s  
95th percentile per-packet one-way delay: 2.617 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 20.68 Mbit/s  
95th percentile per-packet one-way delay: 2.648 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 17.06 Mbit/s  
95th percentile per-packet one-way delay: 2.699 ms  
Loss rate: 0.01%

Run 5: Report of Muses\_DecisionTreeH0 — Data Link

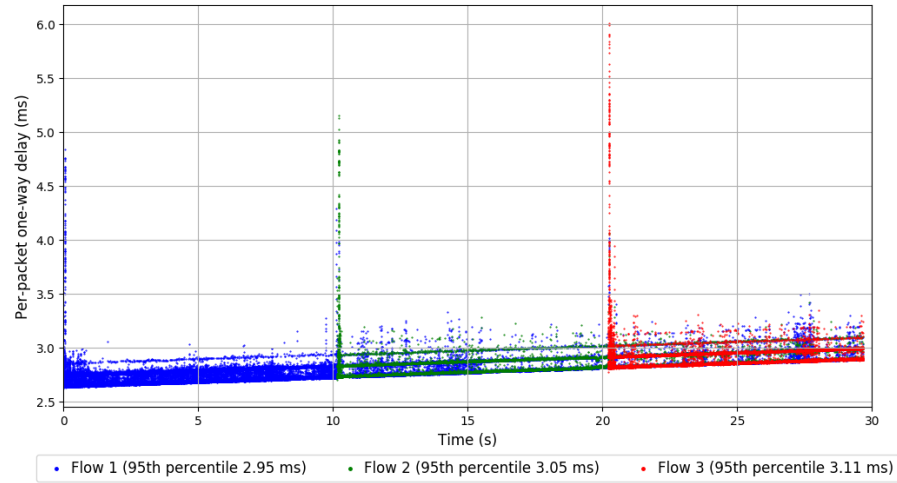
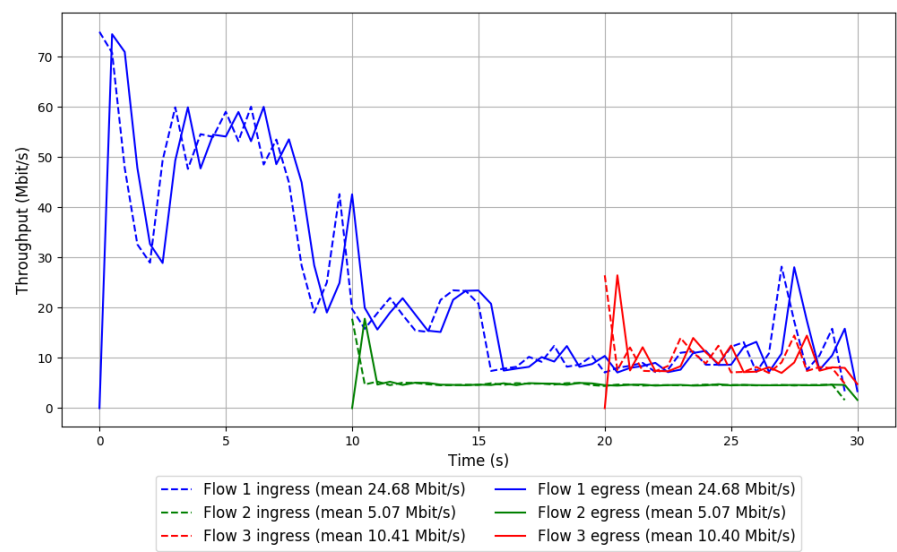


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-09-18 23:05:41
End at: 2019-09-18 23:06:11
Local clock offset: -1.661 ms
Remote clock offset: -2.618 ms

# Below is generated by plot.py at 2019-09-19 01:10:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.34 Mbit/s
95th percentile per-packet one-way delay: 2.982 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 24.68 Mbit/s
95th percentile per-packet one-way delay: 2.952 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.07 Mbit/s
95th percentile per-packet one-way delay: 3.052 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 10.40 Mbit/s
95th percentile per-packet one-way delay: 3.107 ms
Loss rate: 0.07%
```

Run 1: Report of Muses\_DecisionTreeR0 — Data Link

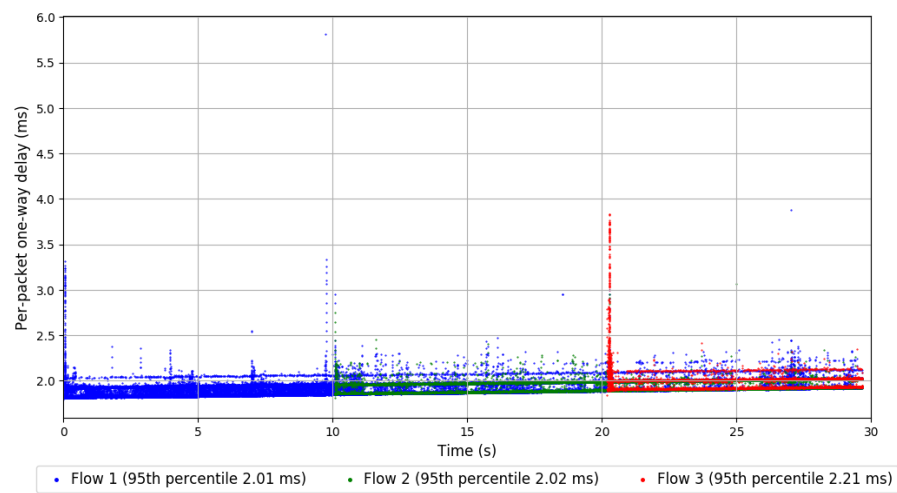
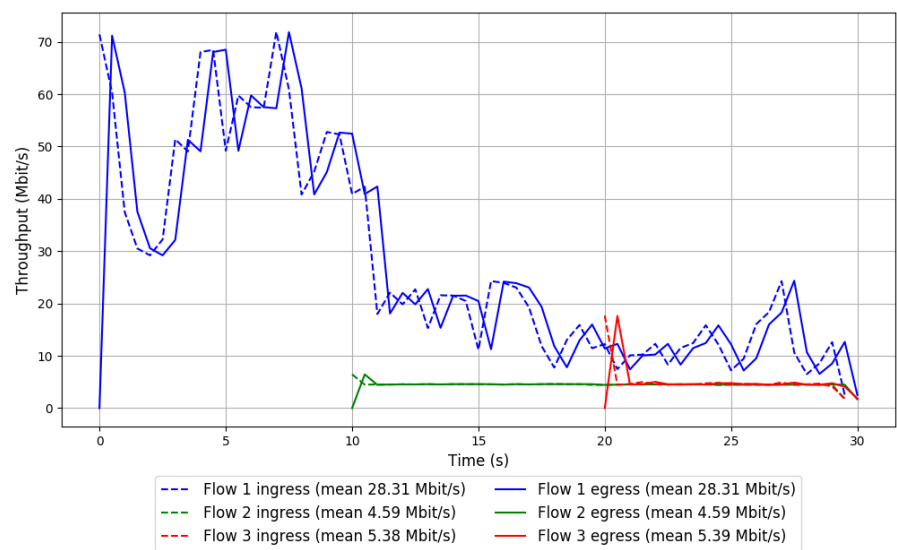


Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-18 23:33:12  
End at: 2019-09-18 23:33:42  
Local clock offset: -9.299 ms  
Remote clock offset: -2.185 ms

# Below is generated by plot.py at 2019-09-19 01:10:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 33.07 Mbit/s  
95th percentile per-packet one-way delay: 2.020 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 28.31 Mbit/s  
95th percentile per-packet one-way delay: 2.009 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 4.59 Mbit/s  
95th percentile per-packet one-way delay: 2.024 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 5.39 Mbit/s  
95th percentile per-packet one-way delay: 2.213 ms  
Loss rate: 0.05%

Run 2: Report of Muses\_DecisionTreeR0 — Data Link

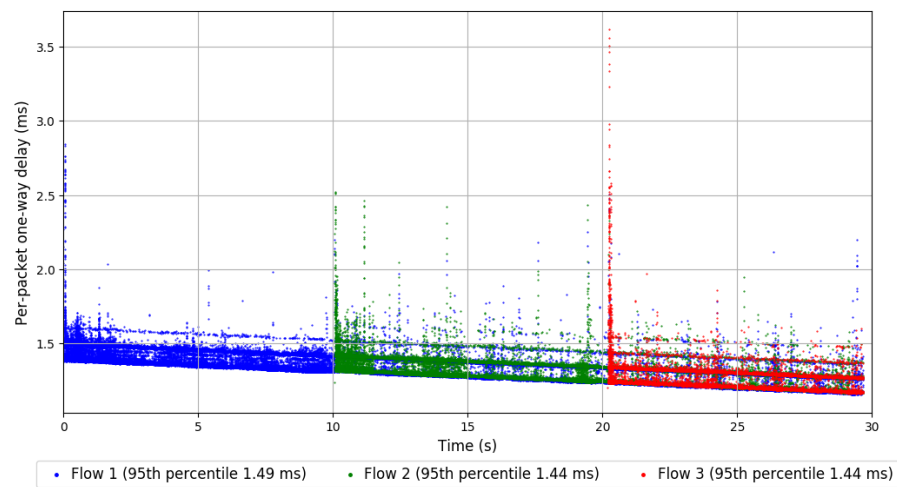
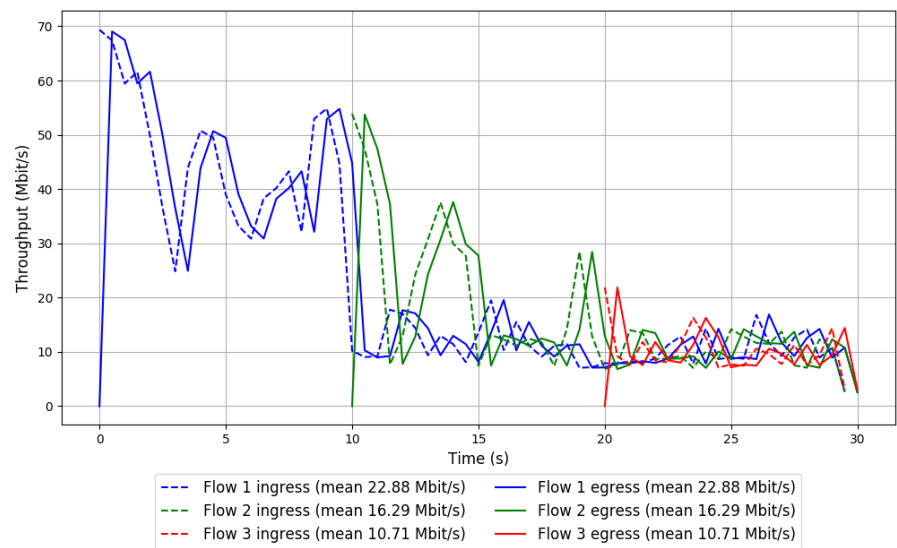


Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-19 00:00:45  
End at: 2019-09-19 00:01:15  
Local clock offset: -12.324 ms  
Remote clock offset: -0.768 ms

# Below is generated by plot.py at 2019-09-19 01:10:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 37.07 Mbit/s  
95th percentile per-packet one-way delay: 1.491 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 22.88 Mbit/s  
95th percentile per-packet one-way delay: 1.494 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 16.29 Mbit/s  
95th percentile per-packet one-way delay: 1.442 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 10.71 Mbit/s  
95th percentile per-packet one-way delay: 1.441 ms  
Loss rate: 0.02%

Run 3: Report of Muses\_DecisionTreeR0 — Data Link

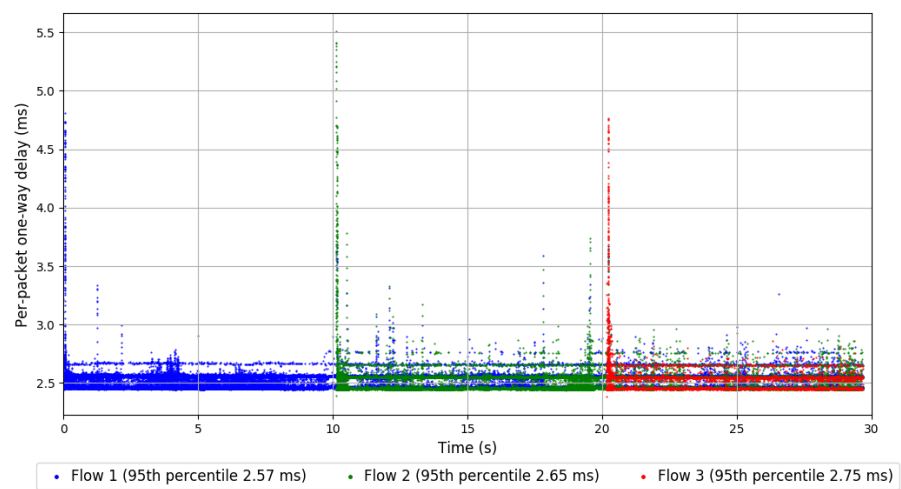
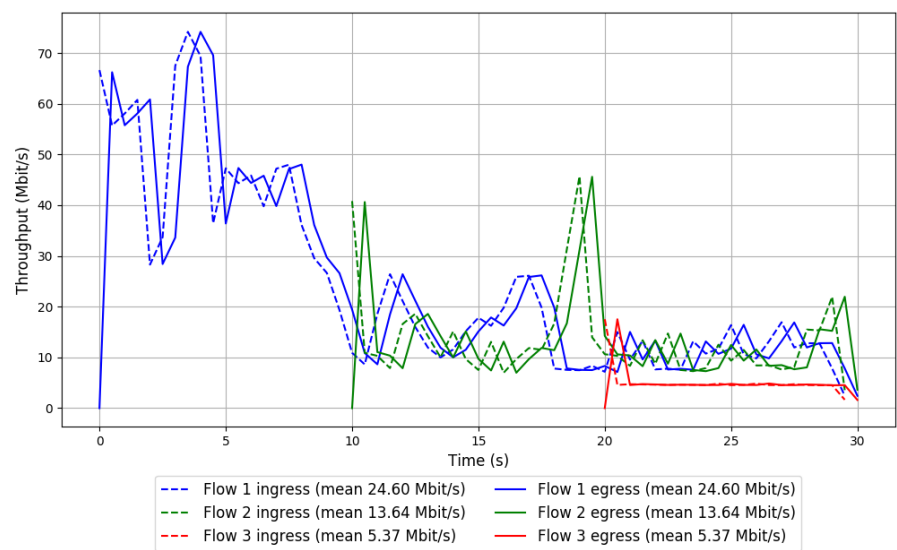


Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-19 00:28:19  
End at: 2019-09-19 00:28:49  
Local clock offset: -6.954 ms  
Remote clock offset: -0.259 ms

# Below is generated by plot.py at 2019-09-19 01:10:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 35.31 Mbit/s  
95th percentile per-packet one-way delay: 2.592 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 24.60 Mbit/s  
95th percentile per-packet one-way delay: 2.567 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 13.64 Mbit/s  
95th percentile per-packet one-way delay: 2.647 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 5.37 Mbit/s  
95th percentile per-packet one-way delay: 2.746 ms  
Loss rate: 0.05%

Run 4: Report of Muses\_DecisionTreeR0 — Data Link

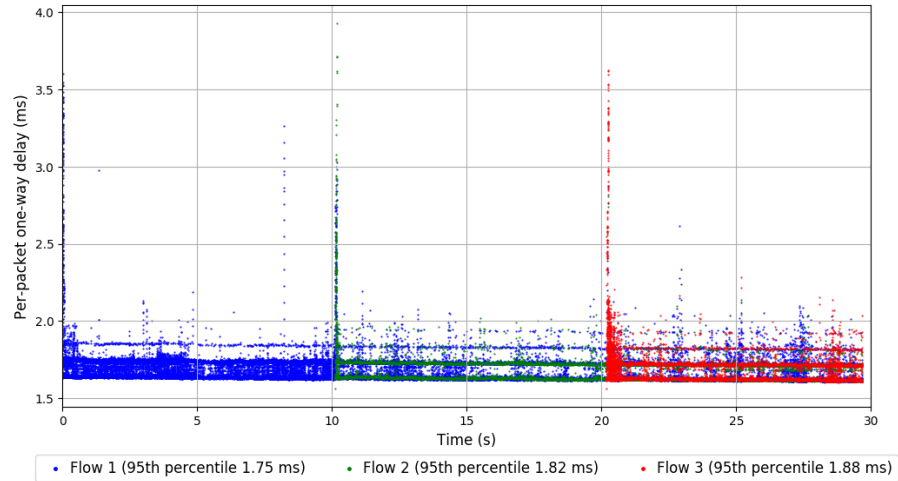
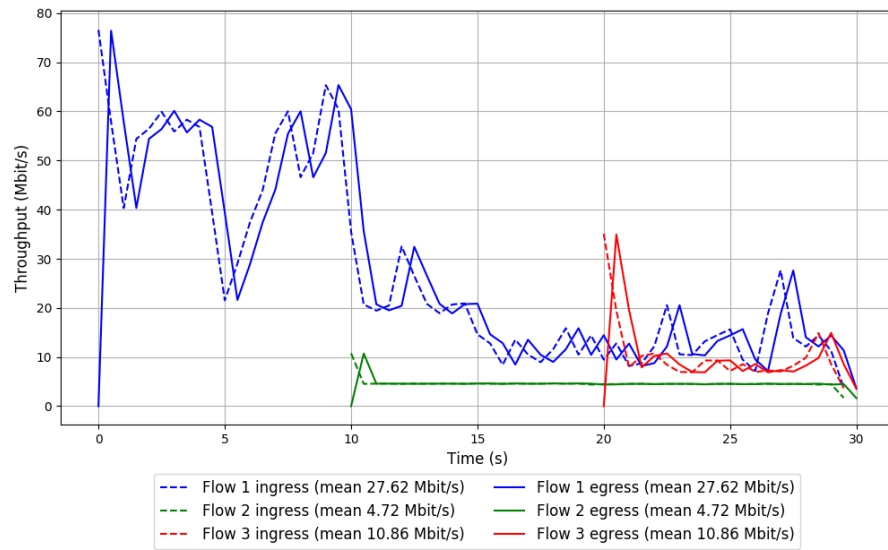


Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-19 00:55:50  
End at: 2019-09-19 00:56:20  
Local clock offset: -3.536 ms  
Remote clock offset: -0.367 ms

# Below is generated by plot.py at 2019-09-19 01:10:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 34.21 Mbit/s  
95th percentile per-packet one-way delay: 1.770 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 27.62 Mbit/s  
95th percentile per-packet one-way delay: 1.754 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 4.72 Mbit/s  
95th percentile per-packet one-way delay: 1.821 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 10.86 Mbit/s  
95th percentile per-packet one-way delay: 1.876 ms  
Loss rate: 0.05%

# Run 5: Report of Muses\_DecisionTreeR0 — Data Link

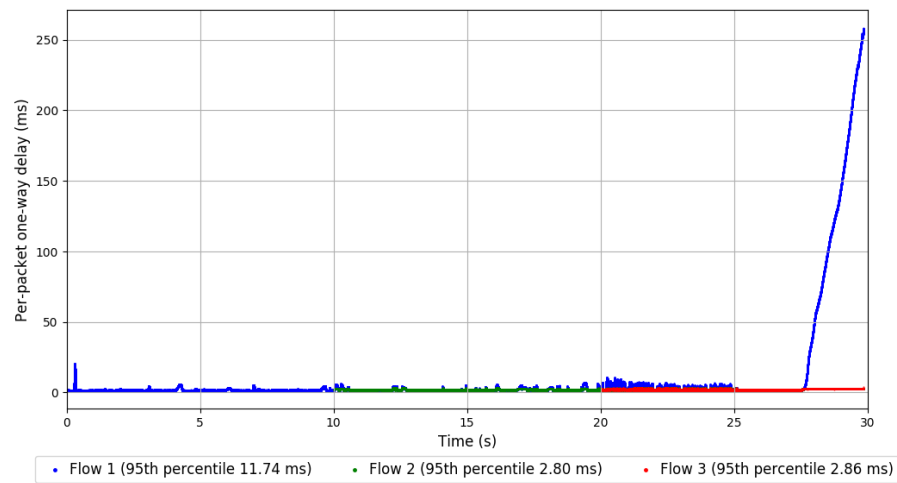
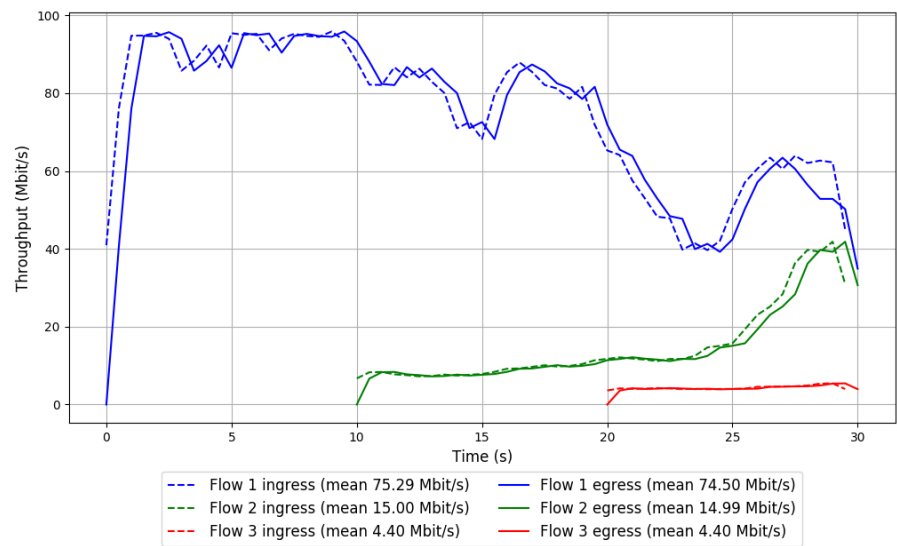


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-09-18 22:42:41
End at: 2019-09-18 22:43:11
Local clock offset: 1.613 ms
Remote clock offset: -2.126 ms

# Below is generated by plot.py at 2019-09-19 01:10:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.92 Mbit/s
95th percentile per-packet one-way delay: 6.650 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 74.50 Mbit/s
95th percentile per-packet one-way delay: 11.737 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 14.99 Mbit/s
95th percentile per-packet one-way delay: 2.803 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 2.859 ms
Loss rate: 0.06%
```

Run 1: Report of PCC-Allegro — Data Link

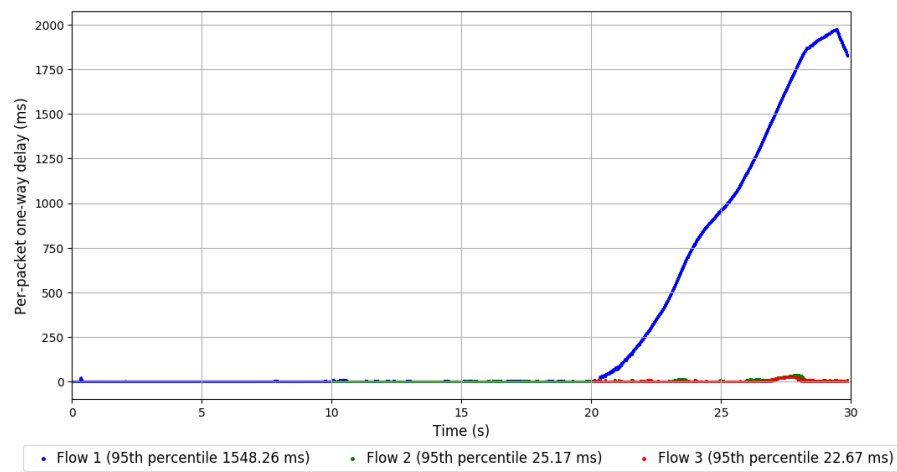
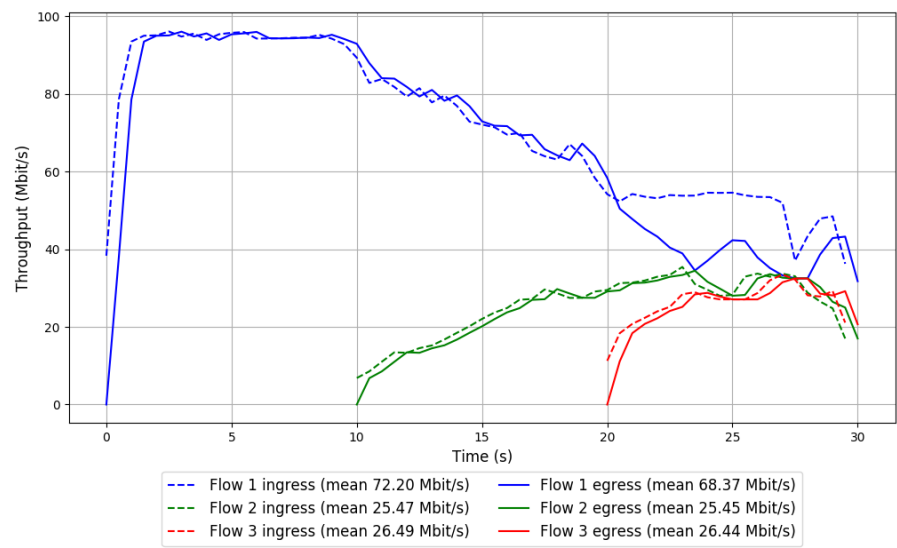


Run 2: Statistics of PCC-Allegro

Start at: 2019-09-18 23:10:14  
End at: 2019-09-18 23:10:44  
Local clock offset: -4.565 ms  
Remote clock offset: -2.665 ms

# Below is generated by plot.py at 2019-09-19 01:11:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.99 Mbit/s  
95th percentile per-packet one-way delay: 1183.458 ms  
Loss rate: 3.96%  
-- Flow 1:  
Average throughput: 68.37 Mbit/s  
95th percentile per-packet one-way delay: 1548.256 ms  
Loss rate: 5.31%  
-- Flow 2:  
Average throughput: 25.45 Mbit/s  
95th percentile per-packet one-way delay: 25.166 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 26.44 Mbit/s  
95th percentile per-packet one-way delay: 22.673 ms  
Loss rate: 0.23%

Run 2: Report of PCC-Allegro — Data Link

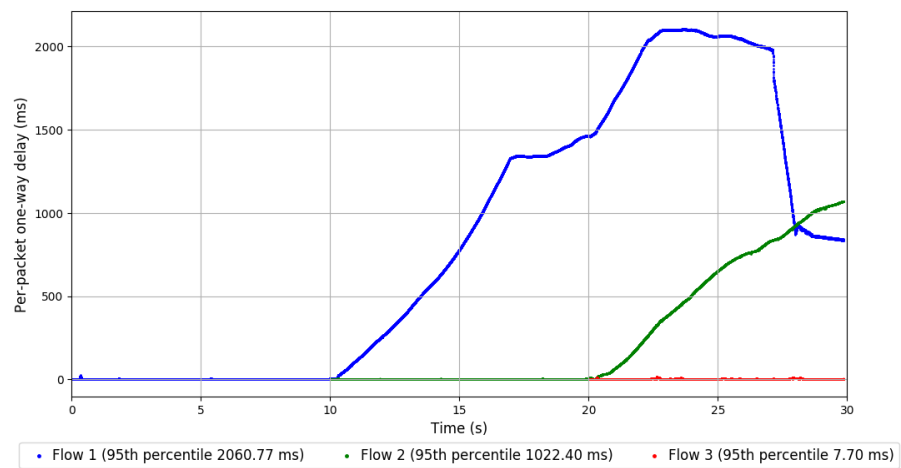
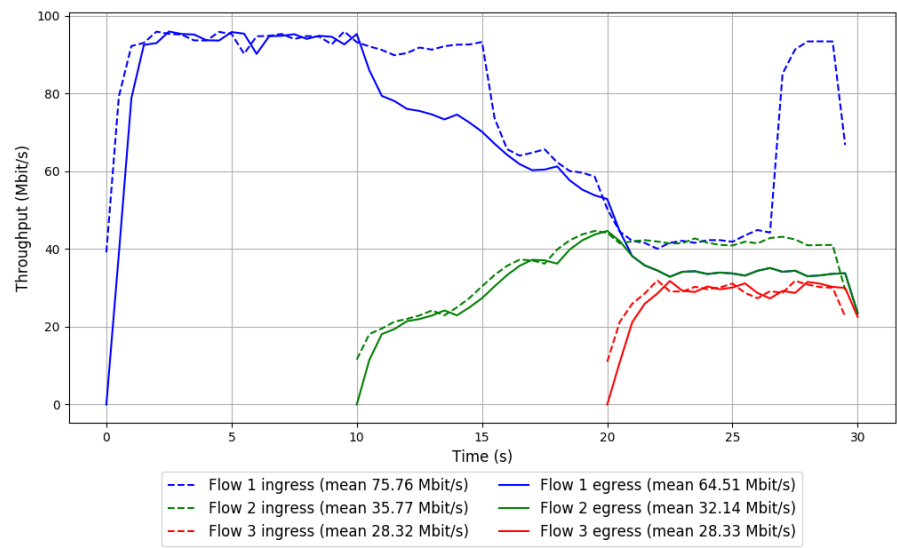


Run 3: Statistics of PCC-Allegro

Start at: 2019-09-18 23:37:44  
End at: 2019-09-18 23:38:14  
Local clock offset: -9.023 ms  
Remote clock offset: -1.776 ms

# Below is generated by plot.py at 2019-09-19 01:11:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.20 Mbit/s  
95th percentile per-packet one-way delay: 2010.438 ms  
Loss rate: 12.58%  
-- Flow 1:  
Average throughput: 64.51 Mbit/s  
95th percentile per-packet one-way delay: 2060.767 ms  
Loss rate: 14.88%  
-- Flow 2:  
Average throughput: 32.14 Mbit/s  
95th percentile per-packet one-way delay: 1022.404 ms  
Loss rate: 10.16%  
-- Flow 3:  
Average throughput: 28.33 Mbit/s  
95th percentile per-packet one-way delay: 7.696 ms  
Loss rate: 0.06%

Run 3: Report of PCC-Allegro — Data Link

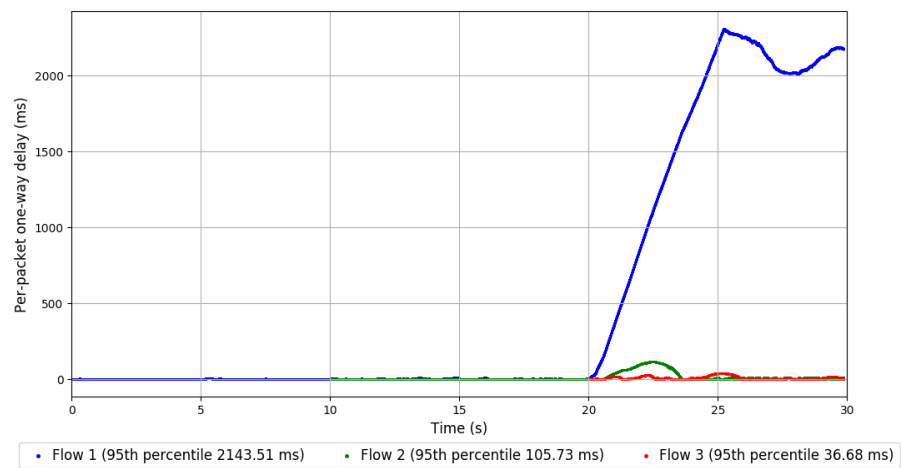
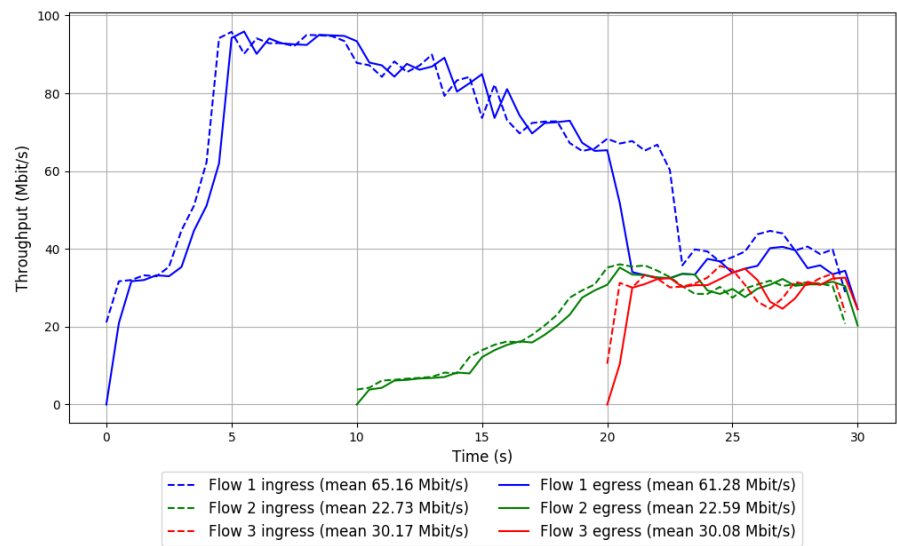


Run 4: Statistics of PCC-Allegro

Start at: 2019-09-19 00:05:18  
End at: 2019-09-19 00:05:48  
Local clock offset: -9.4 ms  
Remote clock offset: -0.513 ms

# Below is generated by plot.py at 2019-09-19 01:11:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.19 Mbit/s  
95th percentile per-packet one-way delay: 2072.321 ms  
Loss rate: 4.46%  
-- Flow 1:  
Average throughput: 61.28 Mbit/s  
95th percentile per-packet one-way delay: 2143.514 ms  
Loss rate: 5.95%  
-- Flow 2:  
Average throughput: 22.59 Mbit/s  
95th percentile per-packet one-way delay: 105.735 ms  
Loss rate: 0.66%  
-- Flow 3:  
Average throughput: 30.08 Mbit/s  
95th percentile per-packet one-way delay: 36.679 ms  
Loss rate: 0.41%

Run 4: Report of PCC-Allegro — Data Link

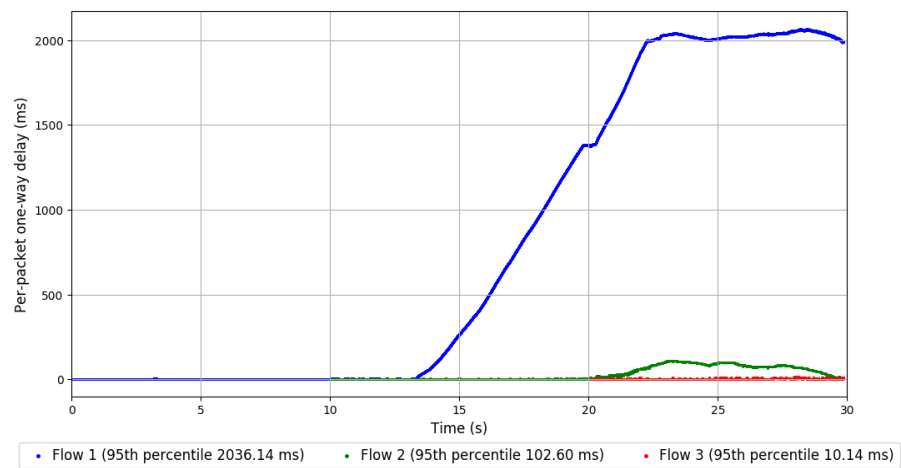
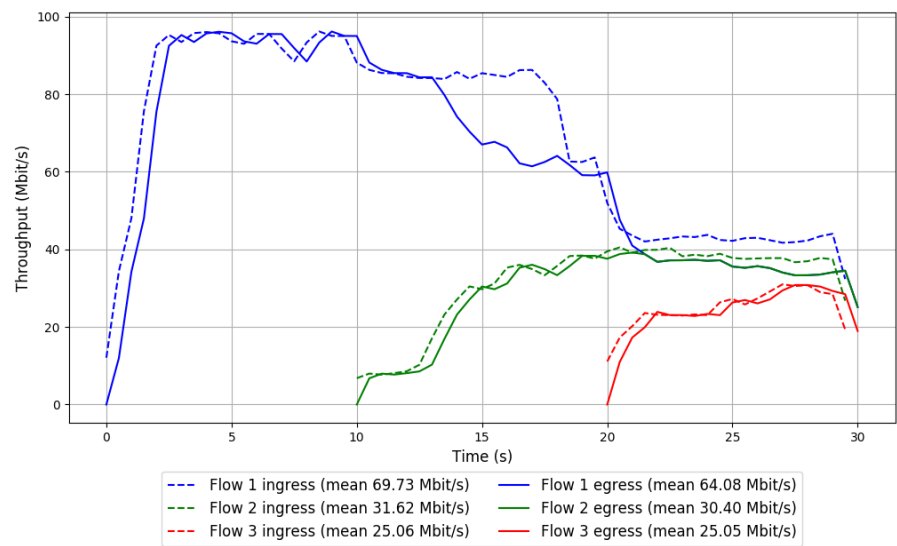


Run 5: Statistics of PCC-Allegro

Start at: 2019-09-19 00:32:51  
End at: 2019-09-19 00:33:21  
Local clock offset: -6.007 ms  
Remote clock offset: -0.332 ms

# Below is generated by plot.py at 2019-09-19 01:11:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.53 Mbit/s  
95th percentile per-packet one-way delay: 2027.462 ms  
Loss rate: 6.55%  
-- Flow 1:  
Average throughput: 64.08 Mbit/s  
95th percentile per-packet one-way delay: 2036.141 ms  
Loss rate: 8.12%  
-- Flow 2:  
Average throughput: 30.40 Mbit/s  
95th percentile per-packet one-way delay: 102.603 ms  
Loss rate: 3.88%  
-- Flow 3:  
Average throughput: 25.05 Mbit/s  
95th percentile per-packet one-way delay: 10.138 ms  
Loss rate: 0.11%

Run 5: Report of PCC-Allegro — Data Link

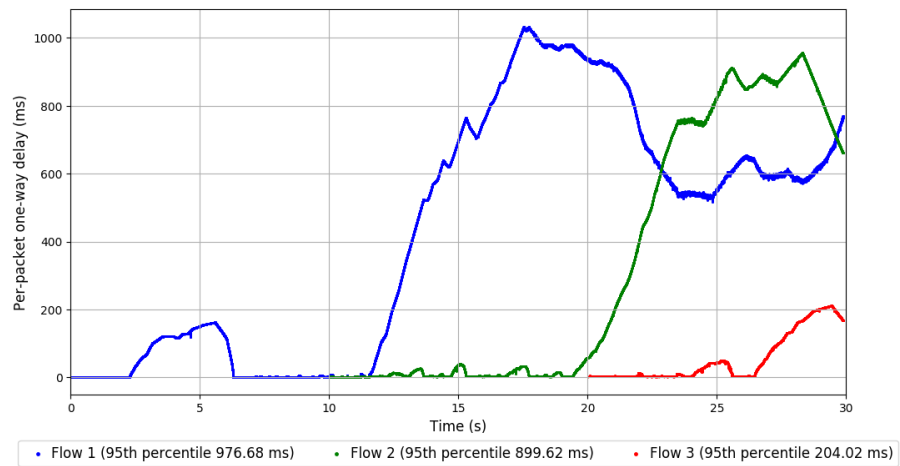
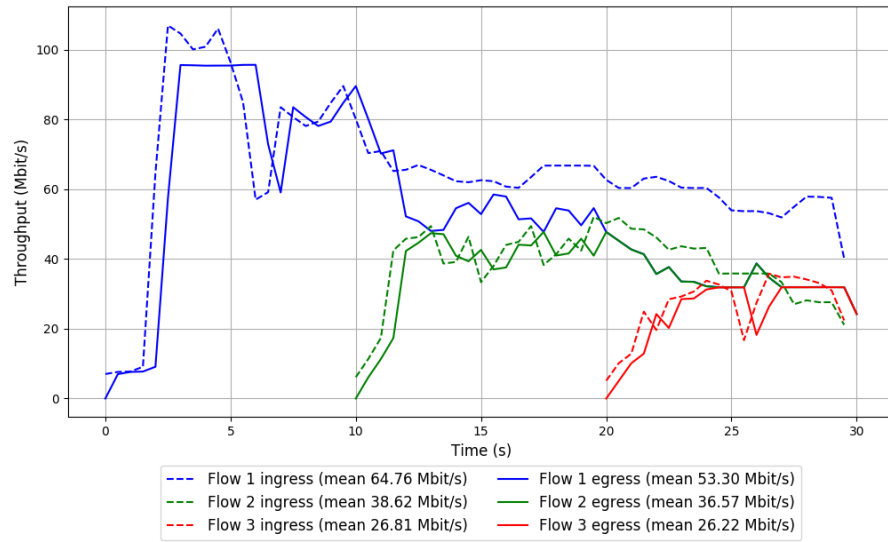


```
Run 1: Statistics of PCC-Expr

Start at: 2019-09-18 22:46:02
End at: 2019-09-18 22:46:32
Local clock offset: 1.532 ms
Remote clock offset: -2.208 ms

# Below is generated by plot.py at 2019-09-19 01:12:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.26 Mbit/s
95th percentile per-packet one-way delay: 958.678 ms
Loss rate: 13.13%
-- Flow 1:
Average throughput: 53.30 Mbit/s
95th percentile per-packet one-way delay: 976.683 ms
Loss rate: 17.71%
-- Flow 2:
Average throughput: 36.57 Mbit/s
95th percentile per-packet one-way delay: 899.623 ms
Loss rate: 5.32%
-- Flow 3:
Average throughput: 26.22 Mbit/s
95th percentile per-packet one-way delay: 204.019 ms
Loss rate: 2.26%
```

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

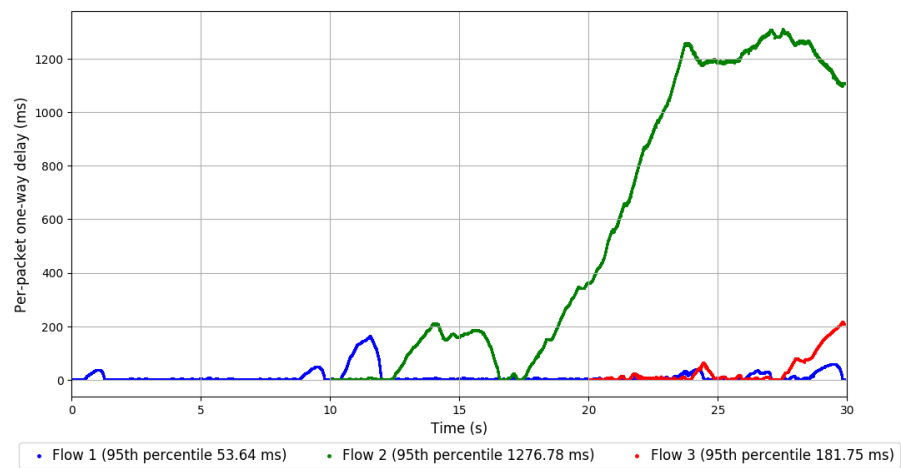
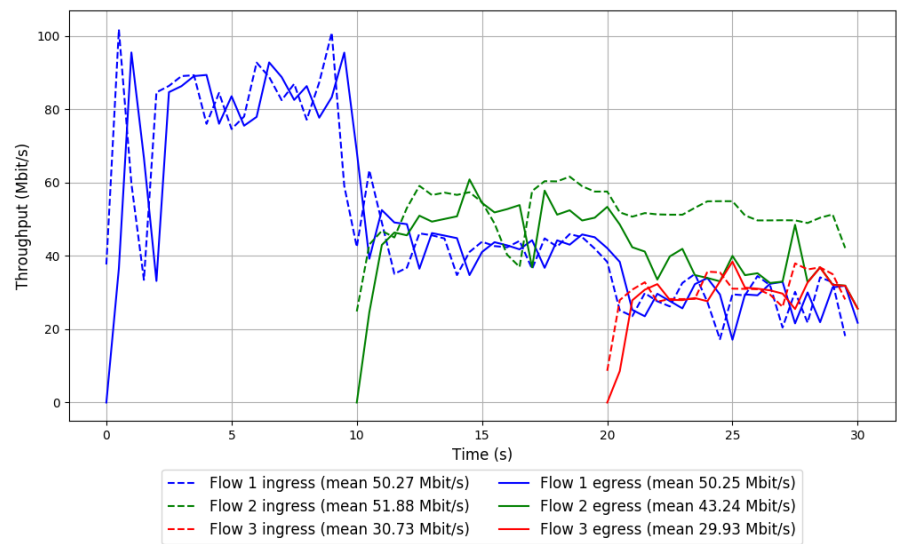


Run 2: Statistics of PCC-Expr

Start at: 2019-09-18 23:13:35  
End at: 2019-09-18 23:14:05  
Local clock offset: -4.852 ms  
Remote clock offset: -2.686 ms

# Below is generated by plot.py at 2019-09-19 01:12:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.89 Mbit/s  
95th percentile per-packet one-way delay: 1194.246 ms  
Loss rate: 6.38%  
-- Flow 1:  
Average throughput: 50.25 Mbit/s  
95th percentile per-packet one-way delay: 53.644 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 43.24 Mbit/s  
95th percentile per-packet one-way delay: 1276.780 ms  
Loss rate: 16.69%  
-- Flow 3:  
Average throughput: 29.93 Mbit/s  
95th percentile per-packet one-way delay: 181.755 ms  
Loss rate: 2.65%

Run 2: Report of PCC-Expr — Data Link

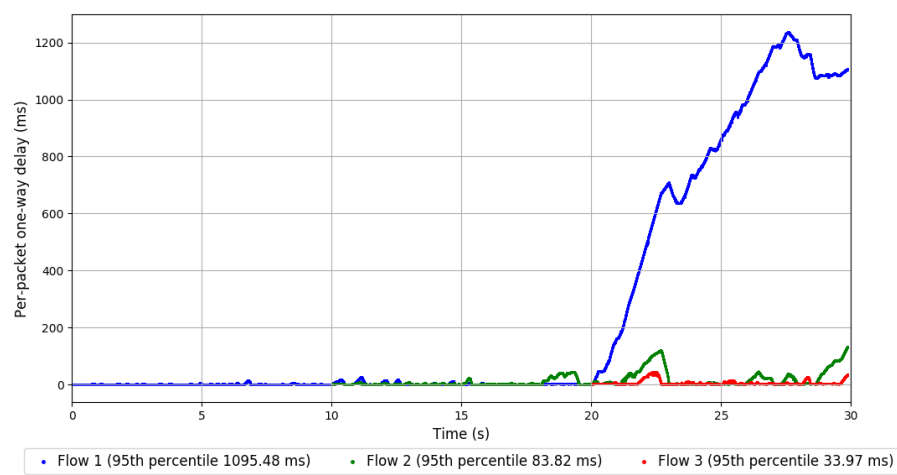
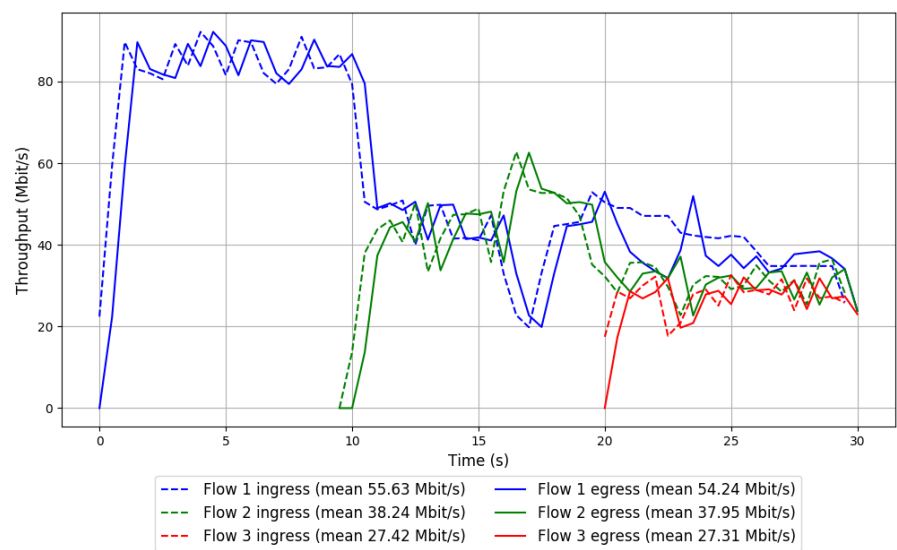


Run 3: Statistics of PCC-Expr

Start at: 2019-09-18 23:41:06  
End at: 2019-09-18 23:41:36  
Local clock offset: -10.204 ms  
Remote clock offset: -1.661 ms

# Below is generated by plot.py at 2019-09-19 01:12:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.49 Mbit/s  
95th percentile per-packet one-way delay: 991.235 ms  
Loss rate: 1.83%  
-- Flow 1:  
Average throughput: 54.24 Mbit/s  
95th percentile per-packet one-way delay: 1095.481 ms  
Loss rate: 2.52%  
-- Flow 2:  
Average throughput: 37.95 Mbit/s  
95th percentile per-packet one-way delay: 83.823 ms  
Loss rate: 0.79%  
-- Flow 3:  
Average throughput: 27.31 Mbit/s  
95th percentile per-packet one-way delay: 33.973 ms  
Loss rate: 0.55%

Run 3: Report of PCC-Expr — Data Link

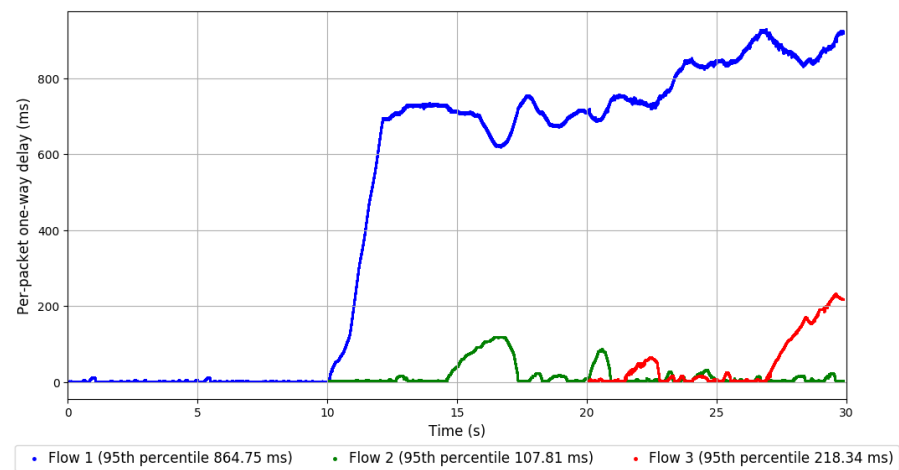
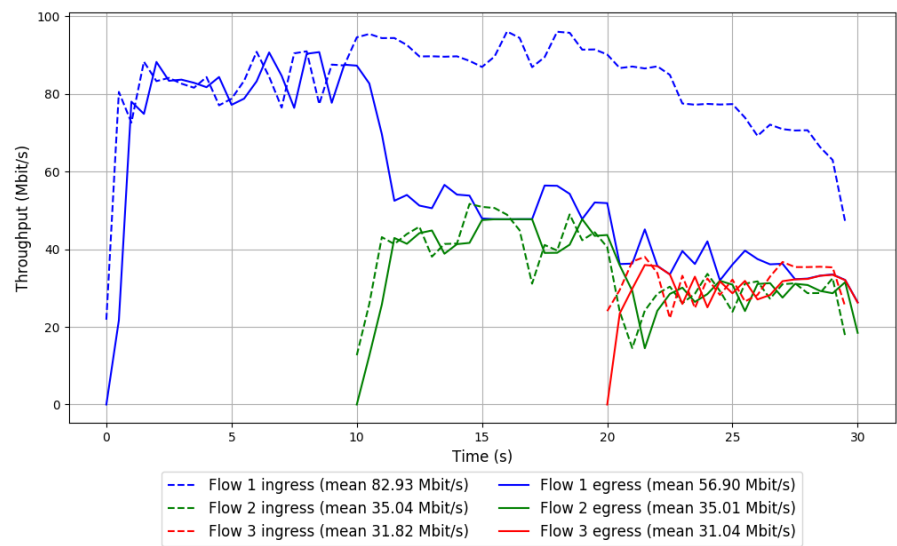


Run 4: Statistics of PCC-Expr

Start at: 2019-09-19 00:08:40  
End at: 2019-09-19 00:09:10  
Local clock offset: -8.525 ms  
Remote clock offset: -0.495 ms

# Below is generated by plot.py at 2019-09-19 01:13:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.41 Mbit/s  
95th percentile per-packet one-way delay: 844.700 ms  
Loss rate: 22.56%  
-- Flow 1:  
Average throughput: 56.90 Mbit/s  
95th percentile per-packet one-way delay: 864.754 ms  
Loss rate: 31.40%  
-- Flow 2:  
Average throughput: 35.01 Mbit/s  
95th percentile per-packet one-way delay: 107.810 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 31.04 Mbit/s  
95th percentile per-packet one-way delay: 218.336 ms  
Loss rate: 2.52%

Run 4: Report of PCC-Expr — Data Link

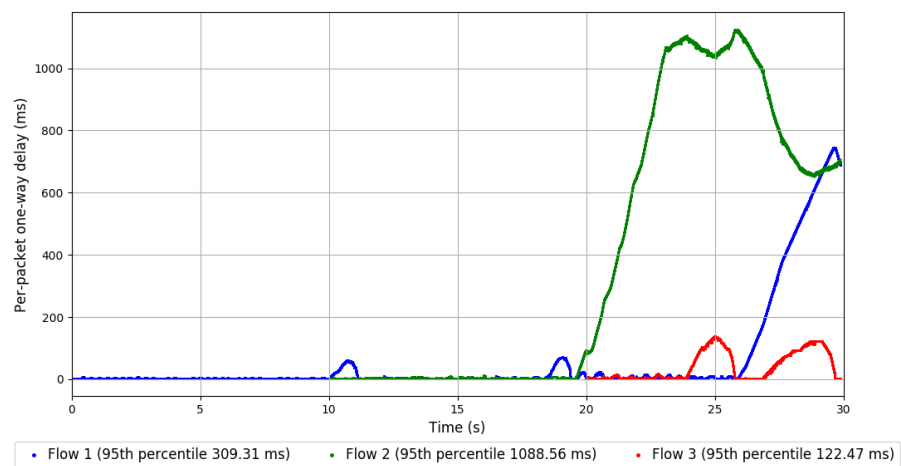
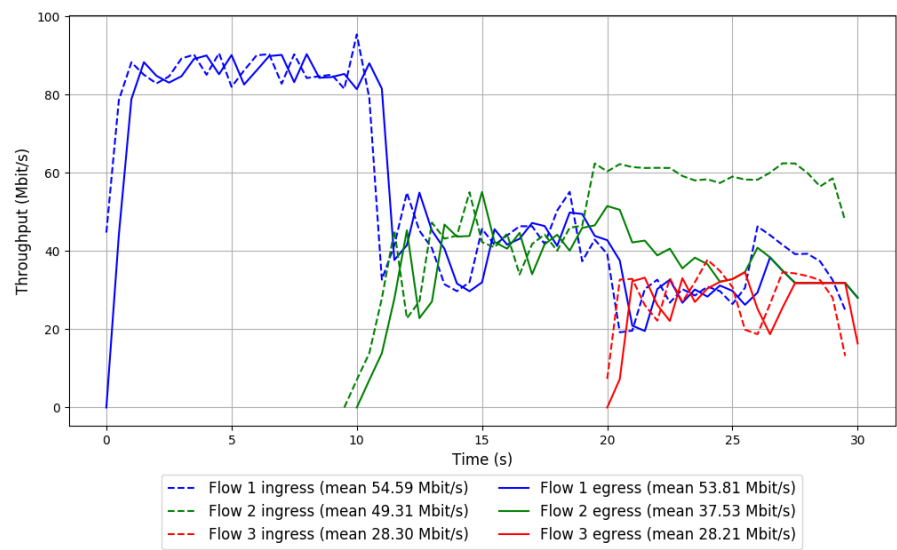


Run 5: Statistics of PCC-Expr

Start at: 2019-09-19 00:36:14  
End at: 2019-09-19 00:36:44  
Local clock offset: -5.798 ms  
Remote clock offset: -0.376 ms

# Below is generated by plot.py at 2019-09-19 01:13:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.09 Mbit/s  
95th percentile per-packet one-way delay: 1018.864 ms  
Loss rate: 8.95%  
-- Flow 1:  
Average throughput: 53.81 Mbit/s  
95th percentile per-packet one-way delay: 309.312 ms  
Loss rate: 1.43%  
-- Flow 2:  
Average throughput: 37.53 Mbit/s  
95th percentile per-packet one-way delay: 1088.563 ms  
Loss rate: 23.89%  
-- Flow 3:  
Average throughput: 28.21 Mbit/s  
95th percentile per-packet one-way delay: 122.466 ms  
Loss rate: 0.37%

Run 5: Report of PCC-Expr — Data Link

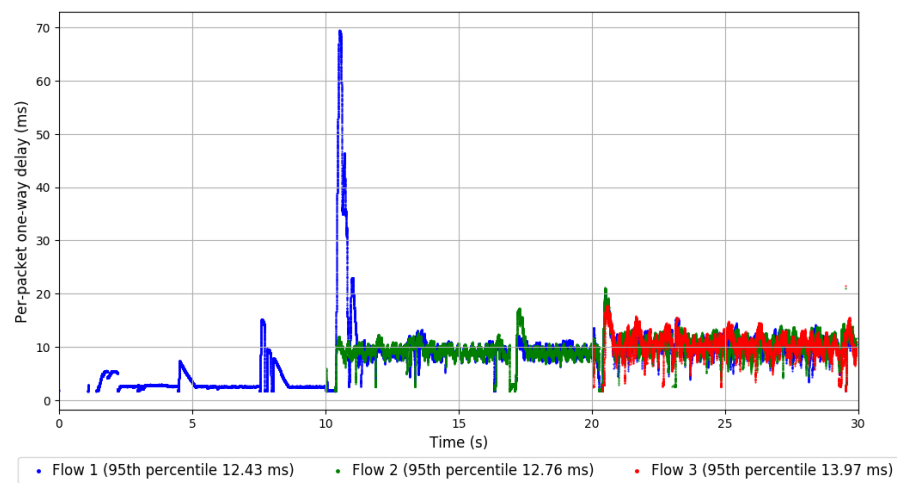
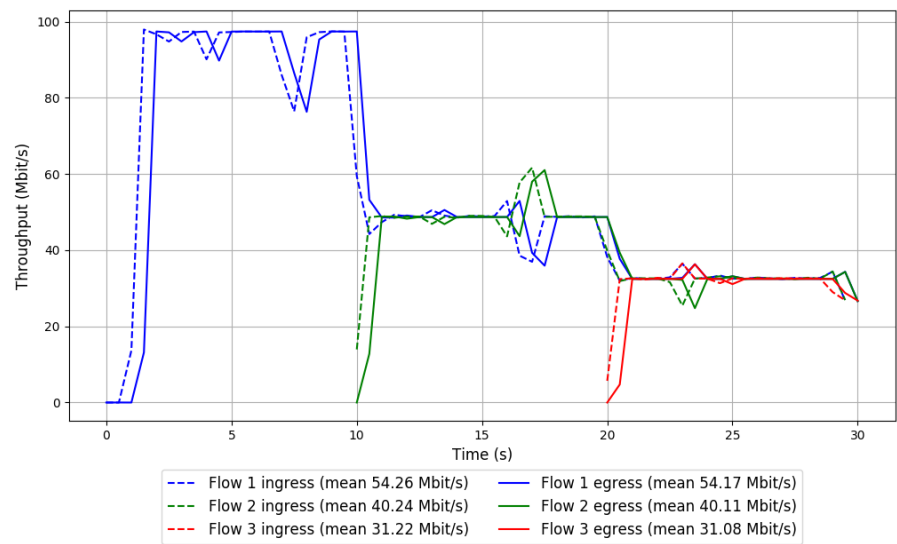


Run 1: Statistics of QUIC Cubic

Start at: 2019-09-18 22:51:50  
End at: 2019-09-18 22:52:20  
Local clock offset: 1.54 ms  
Remote clock offset: -2.284 ms

# Below is generated by plot.py at 2019-09-19 01:13:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.13 Mbit/s  
95th percentile per-packet one-way delay: 12.879 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 54.17 Mbit/s  
95th percentile per-packet one-way delay: 12.433 ms  
Loss rate: 0.17%  
-- Flow 2:  
Average throughput: 40.11 Mbit/s  
95th percentile per-packet one-way delay: 12.762 ms  
Loss rate: 0.34%  
-- Flow 3:  
Average throughput: 31.08 Mbit/s  
95th percentile per-packet one-way delay: 13.972 ms  
Loss rate: 0.51%

Run 1: Report of QUIC Cubic — Data Link

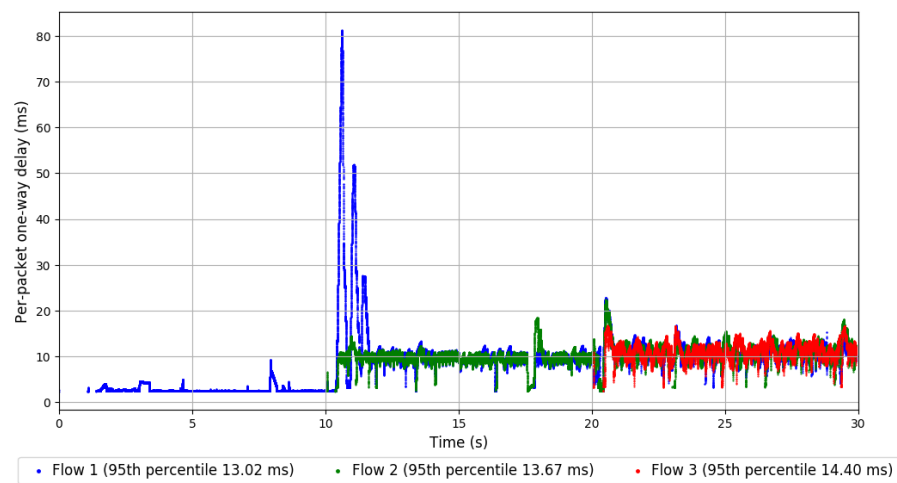
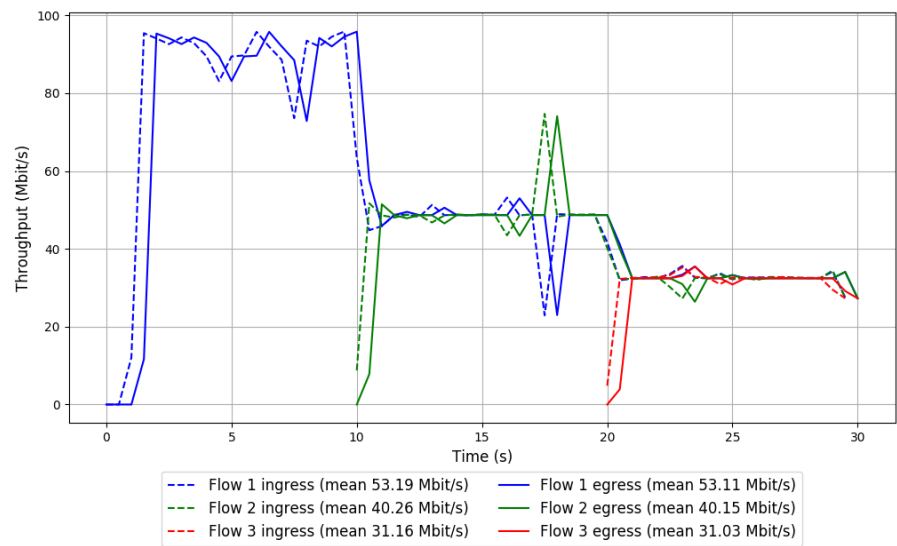


Run 2: Statistics of QUIC Cubic

Start at: 2019-09-18 23:19:23  
End at: 2019-09-18 23:19:53  
Local clock offset: -6.366 ms  
Remote clock offset: -2.595 ms

# Below is generated by plot.py at 2019-09-19 01:13:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.08 Mbit/s  
95th percentile per-packet one-way delay: 13.627 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 53.11 Mbit/s  
95th percentile per-packet one-way delay: 13.023 ms  
Loss rate: 0.15%  
-- Flow 2:  
Average throughput: 40.15 Mbit/s  
95th percentile per-packet one-way delay: 13.668 ms  
Loss rate: 0.30%  
-- Flow 3:  
Average throughput: 31.03 Mbit/s  
95th percentile per-packet one-way delay: 14.404 ms  
Loss rate: 0.45%

Run 2: Report of QUIC Cubic — Data Link

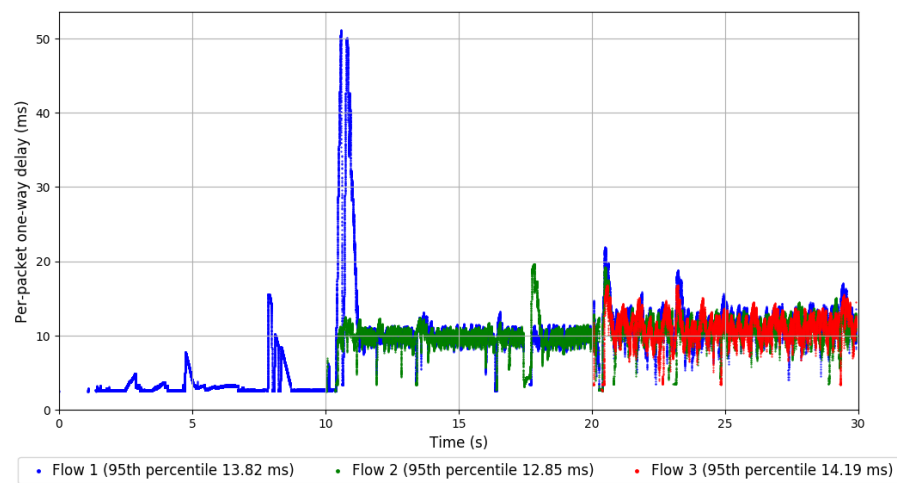
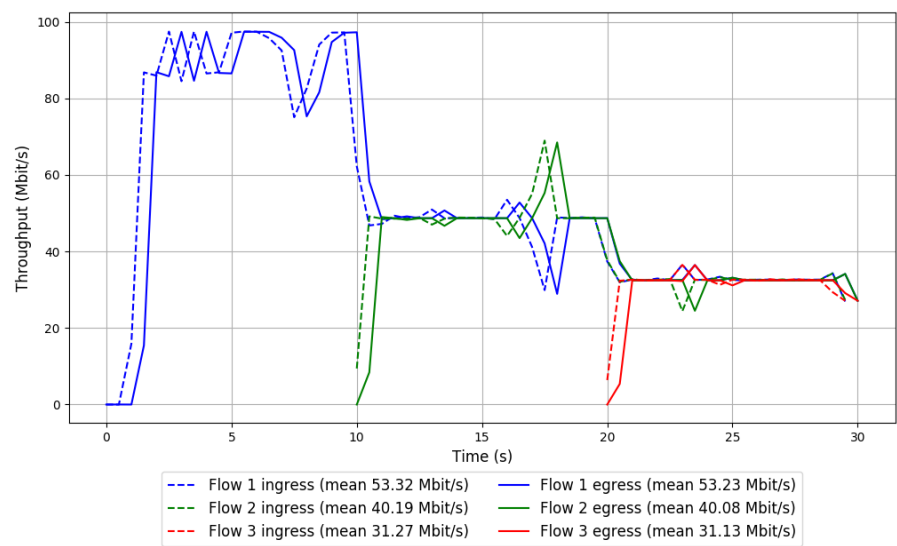


Run 3: Statistics of QUIC Cubic

Start at: 2019-09-18 23:46:54  
End at: 2019-09-18 23:47:24  
Local clock offset: -10.115 ms  
Remote clock offset: -1.655 ms

# Below is generated by plot.py at 2019-09-19 01:13:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.19 Mbit/s  
95th percentile per-packet one-way delay: 13.628 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 53.23 Mbit/s  
95th percentile per-packet one-way delay: 13.825 ms  
Loss rate: 0.17%  
-- Flow 2:  
Average throughput: 40.08 Mbit/s  
95th percentile per-packet one-way delay: 12.845 ms  
Loss rate: 0.30%  
-- Flow 3:  
Average throughput: 31.13 Mbit/s  
95th percentile per-packet one-way delay: 14.186 ms  
Loss rate: 0.46%

Run 3: Report of QUIC Cubic — Data Link

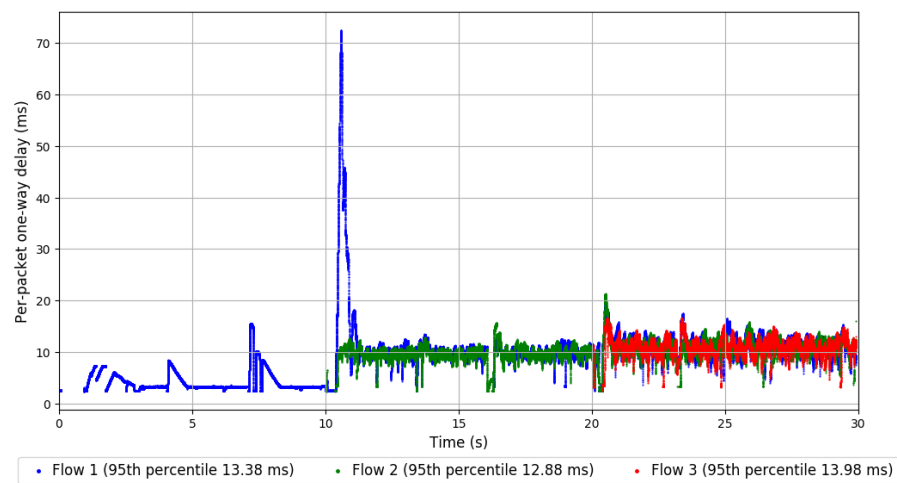
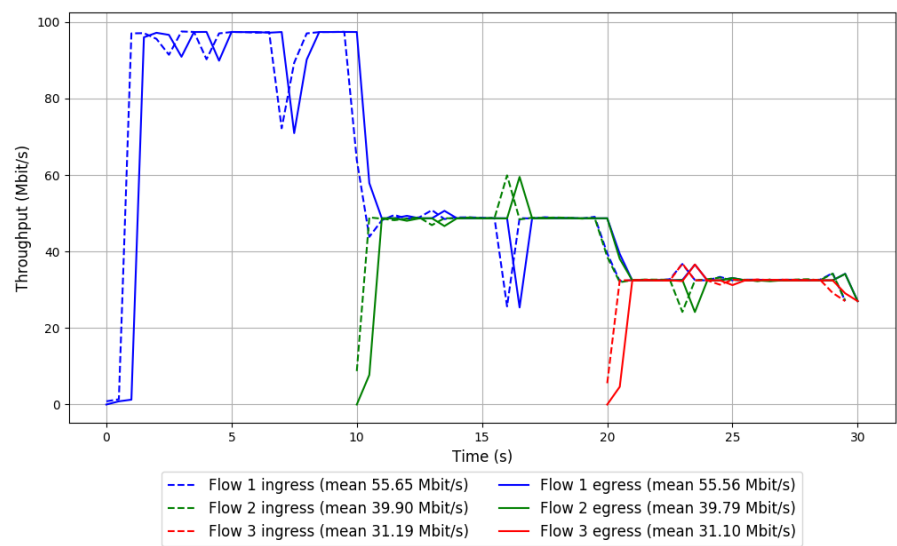


Run 4: Statistics of QUIC Cubic

Start at: 2019-09-19 00:14:28  
End at: 2019-09-19 00:14:58  
Local clock offset: -7.564 ms  
Remote clock offset: -0.426 ms

# Below is generated by plot.py at 2019-09-19 01:13:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.32 Mbit/s  
95th percentile per-packet one-way delay: 13.345 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 55.56 Mbit/s  
95th percentile per-packet one-way delay: 13.376 ms  
Loss rate: 0.16%  
-- Flow 2:  
Average throughput: 39.79 Mbit/s  
95th percentile per-packet one-way delay: 12.878 ms  
Loss rate: 0.30%  
-- Flow 3:  
Average throughput: 31.10 Mbit/s  
95th percentile per-packet one-way delay: 13.976 ms  
Loss rate: 0.44%

Run 4: Report of QUIC Cubic — Data Link

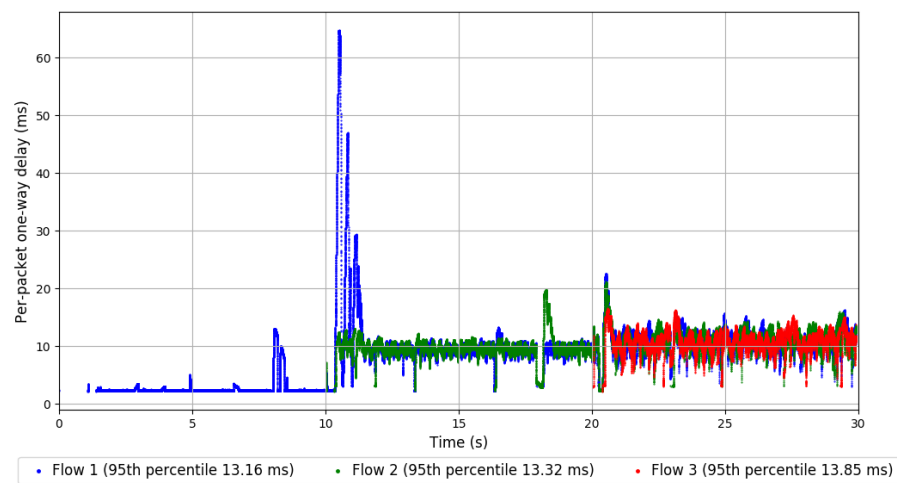
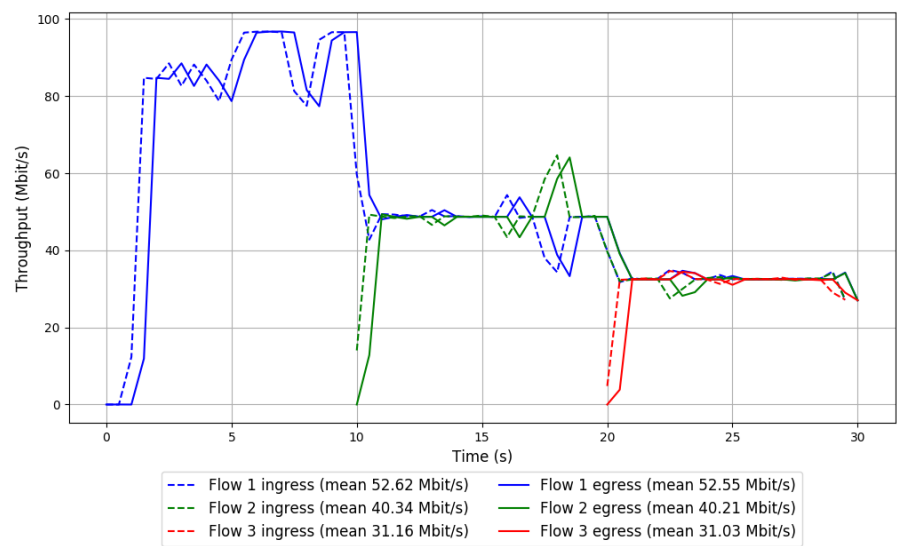


Run 5: Statistics of QUIC Cubic

Start at: 2019-09-19 00:42:00  
End at: 2019-09-19 00:42:30  
Local clock offset: -4.042 ms  
Remote clock offset: -0.295 ms

# Below is generated by plot.py at 2019-09-19 01:13:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.56 Mbit/s  
95th percentile per-packet one-way delay: 13.392 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 52.55 Mbit/s  
95th percentile per-packet one-way delay: 13.163 ms  
Loss rate: 0.15%  
-- Flow 2:  
Average throughput: 40.21 Mbit/s  
95th percentile per-packet one-way delay: 13.316 ms  
Loss rate: 0.35%  
-- Flow 3:  
Average throughput: 31.03 Mbit/s  
95th percentile per-packet one-way delay: 13.849 ms  
Loss rate: 0.46%

Run 5: Report of QUIC Cubic — Data Link

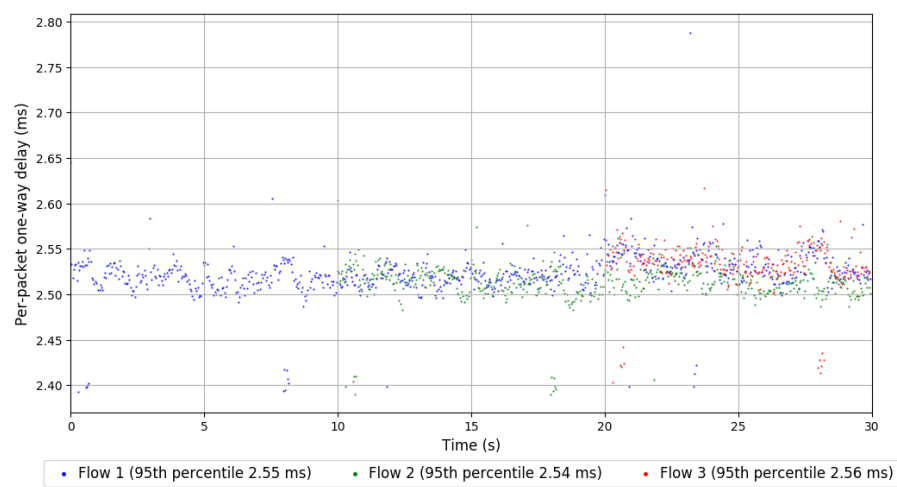
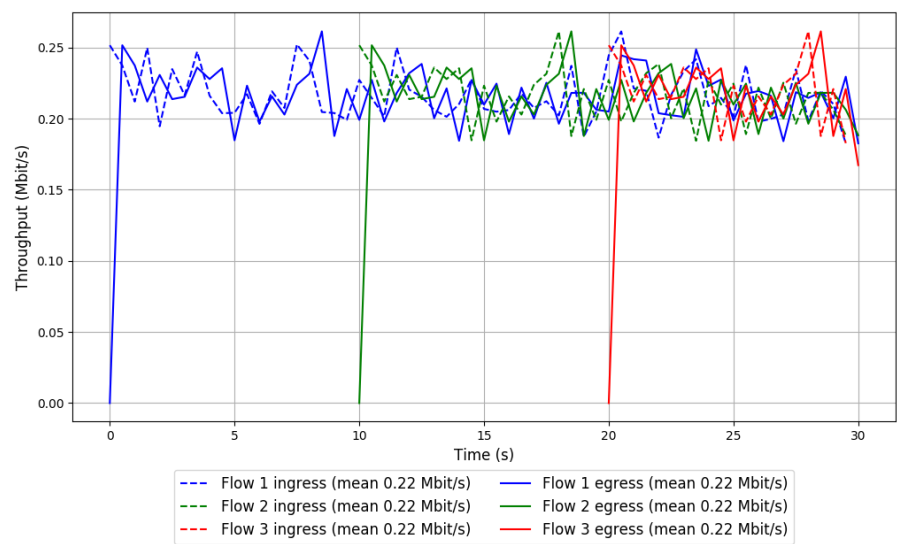


Run 1: Statistics of SReAM

Start at: 2019-09-18 22:47:15  
End at: 2019-09-18 22:47:45  
Local clock offset: 2.35 ms  
Remote clock offset: -2.247 ms

# Below is generated by plot.py at 2019-09-19 01:13:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 2.553 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.553 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.537 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.561 ms  
Loss rate: 0.35%

Run 1: Report of SReAM — Data Link

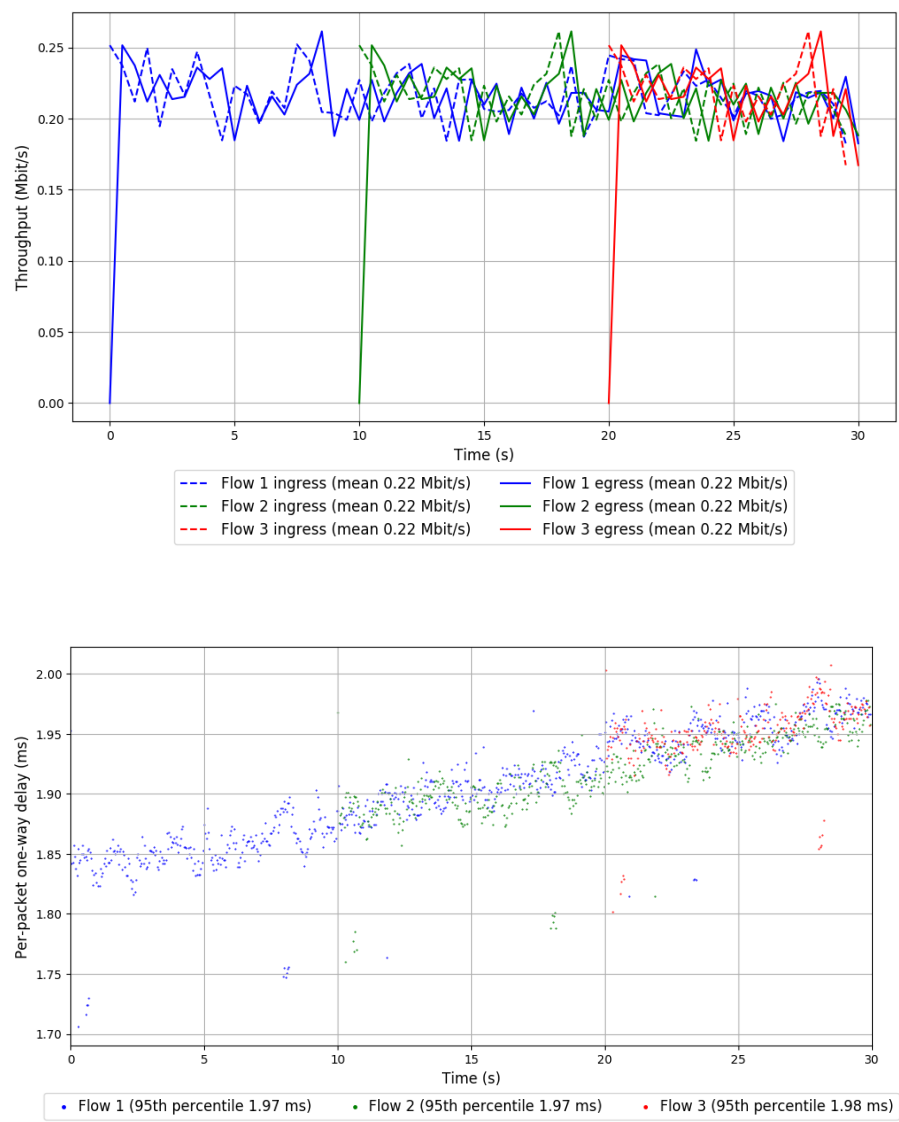


Run 2: Statistics of SReAM

Start at: 2019-09-18 23:14:48  
End at: 2019-09-18 23:15:18  
Local clock offset: -5.977 ms  
Remote clock offset: -2.702 ms

# Below is generated by plot.py at 2019-09-19 01:13:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 1.973 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.971 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.965 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.984 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

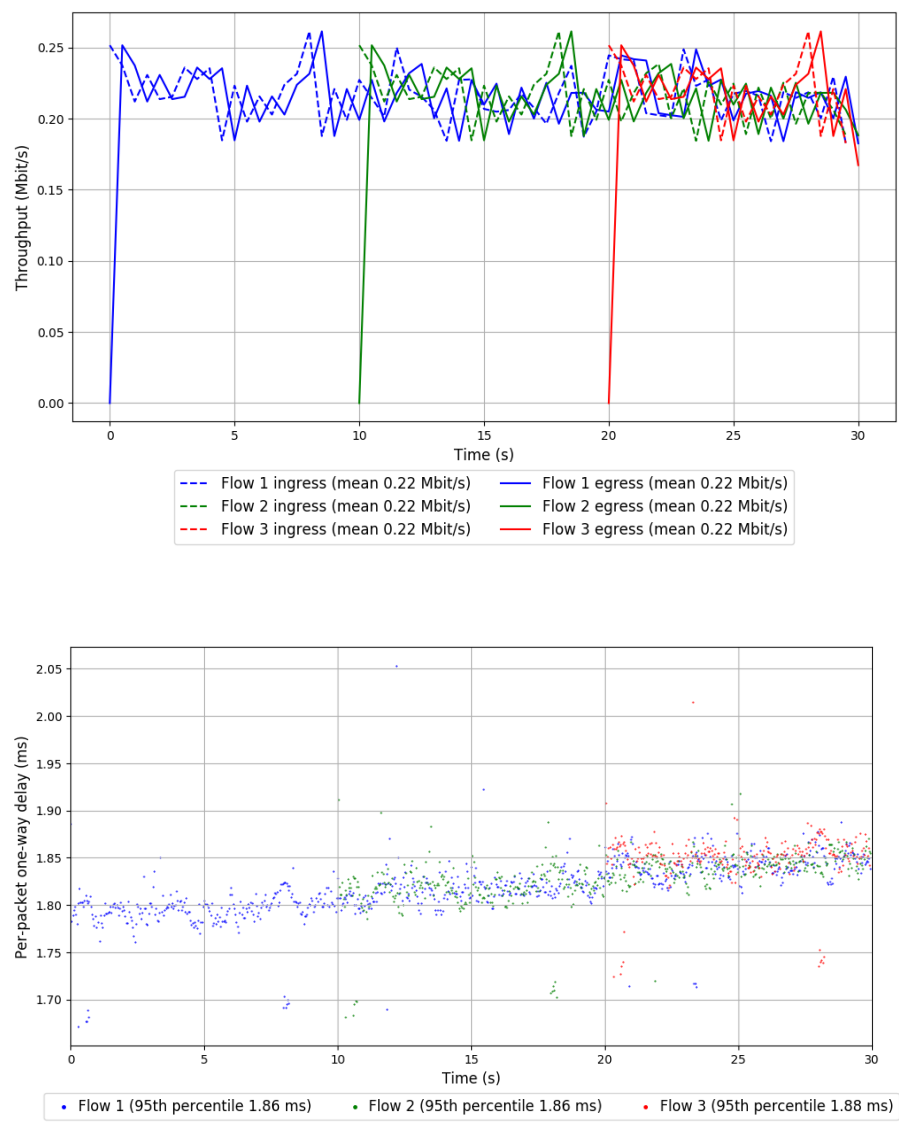


Run 3: Statistics of SReAM

Start at: 2019-09-18 23:42:19  
End at: 2019-09-18 23:42:49  
Local clock offset: -10.342 ms  
Remote clock offset: -1.7 ms

# Below is generated by plot.py at 2019-09-19 01:13:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 1.865 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.858 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.859 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.876 ms  
Loss rate: 0.35%

Run 3: Report of SReAM — Data Link

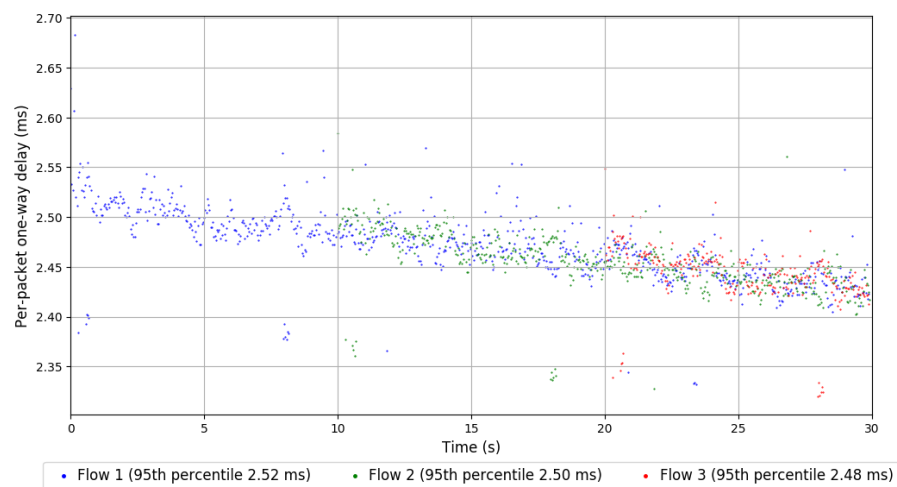
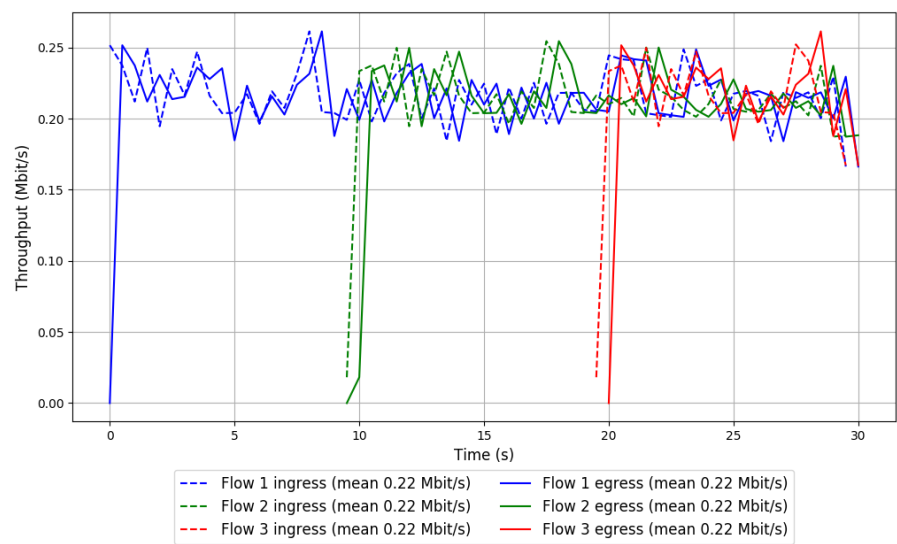


Run 4: Statistics of SReAM

Start at: 2019-09-19 00:09:53  
End at: 2019-09-19 00:10:23  
Local clock offset: -8.235 ms  
Remote clock offset: -0.596 ms

# Below is generated by plot.py at 2019-09-19 01:13:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 2.513 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.524 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.498 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.478 ms  
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

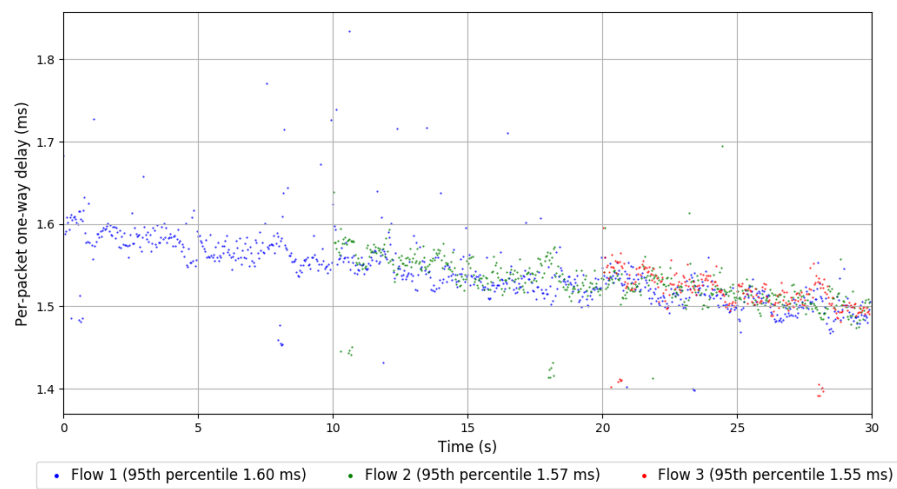
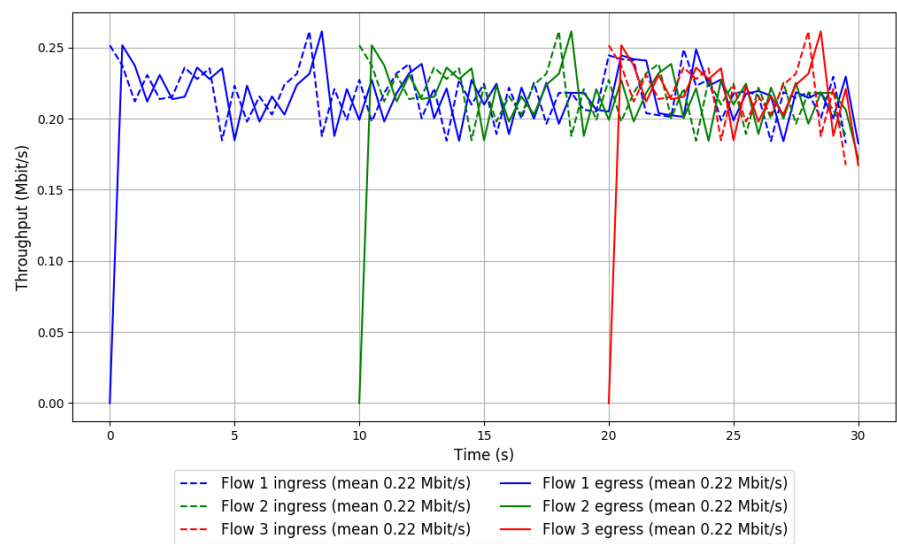


Run 5: Statistics of SReAM

Start at: 2019-09-19 00:37:26  
End at: 2019-09-19 00:37:56  
Local clock offset: -5.59 ms  
Remote clock offset: -0.313 ms

# Below is generated by plot.py at 2019-09-19 01:13:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 1.591 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.602 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.574 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.551 ms  
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

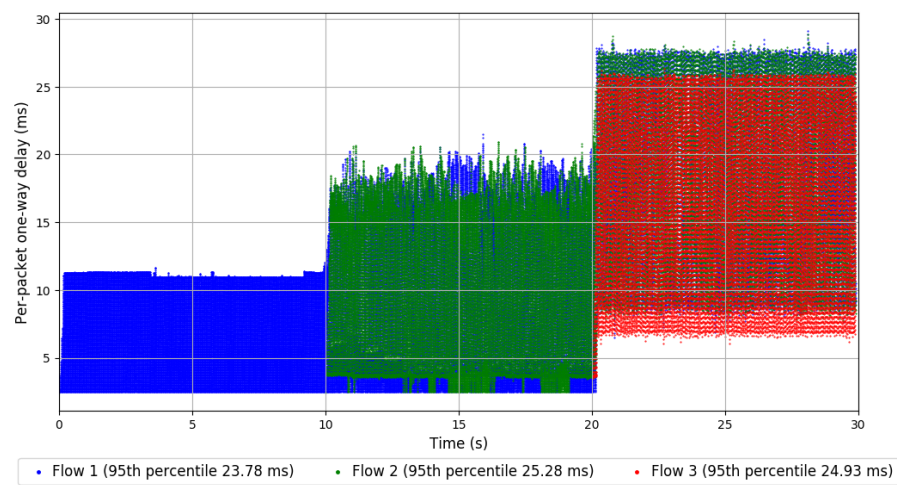
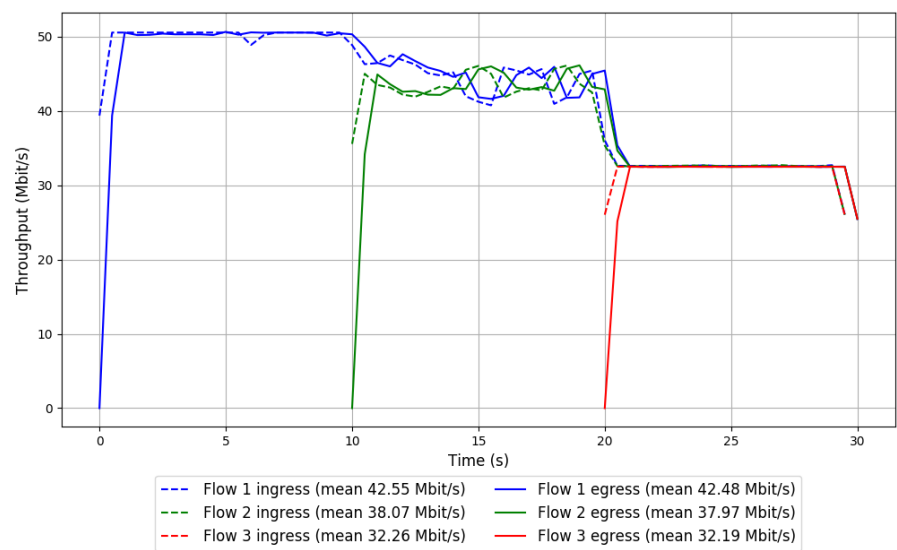


Run 1: Statistics of Sprout

Start at: 2019-09-18 22:52:59  
End at: 2019-09-18 22:53:29  
Local clock offset: 2.318 ms  
Remote clock offset: -2.235 ms

# Below is generated by plot.py at 2019-09-19 01:13:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.37 Mbit/s  
95th percentile per-packet one-way delay: 24.654 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 42.48 Mbit/s  
95th percentile per-packet one-way delay: 23.779 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 37.97 Mbit/s  
95th percentile per-packet one-way delay: 25.276 ms  
Loss rate: 0.22%  
-- Flow 3:  
Average throughput: 32.19 Mbit/s  
95th percentile per-packet one-way delay: 24.933 ms  
Loss rate: 0.22%

Run 1: Report of Sprout — Data Link

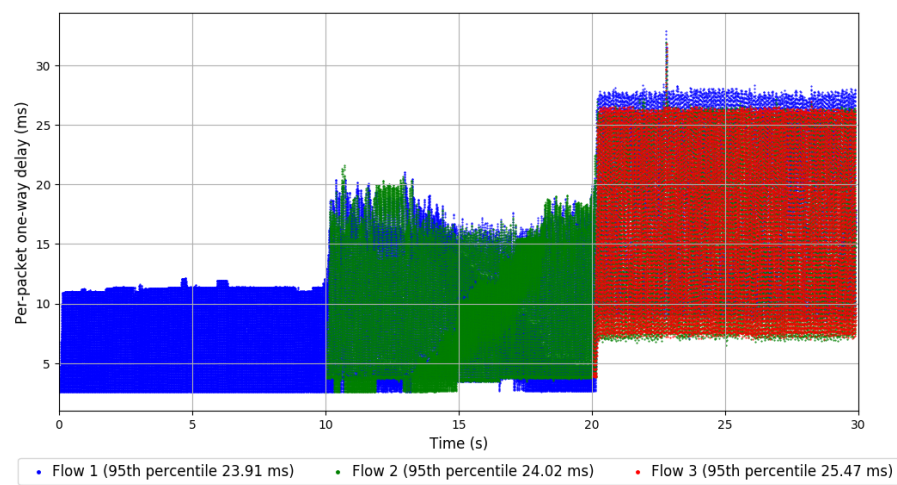
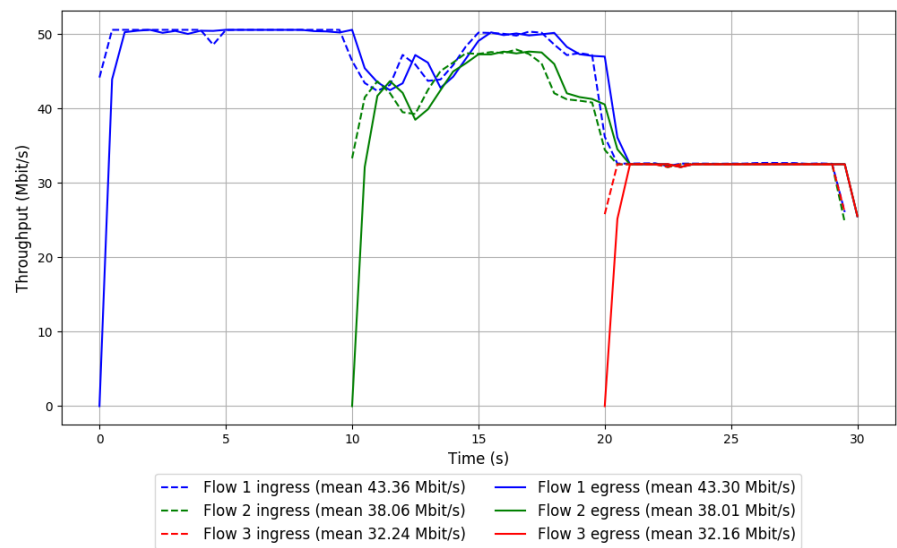


Run 2: Statistics of Sprout

Start at: 2019-09-18 23:20:32  
End at: 2019-09-18 23:21:02  
Local clock offset: -6.505 ms  
Remote clock offset: -2.629 ms

# Below is generated by plot.py at 2019-09-19 01:13:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.21 Mbit/s  
95th percentile per-packet one-way delay: 24.472 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 43.30 Mbit/s  
95th percentile per-packet one-way delay: 23.905 ms  
Loss rate: 0.16%  
-- Flow 2:  
Average throughput: 38.01 Mbit/s  
95th percentile per-packet one-way delay: 24.017 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 32.16 Mbit/s  
95th percentile per-packet one-way delay: 25.469 ms  
Loss rate: 0.17%

Run 2: Report of Sprout — Data Link

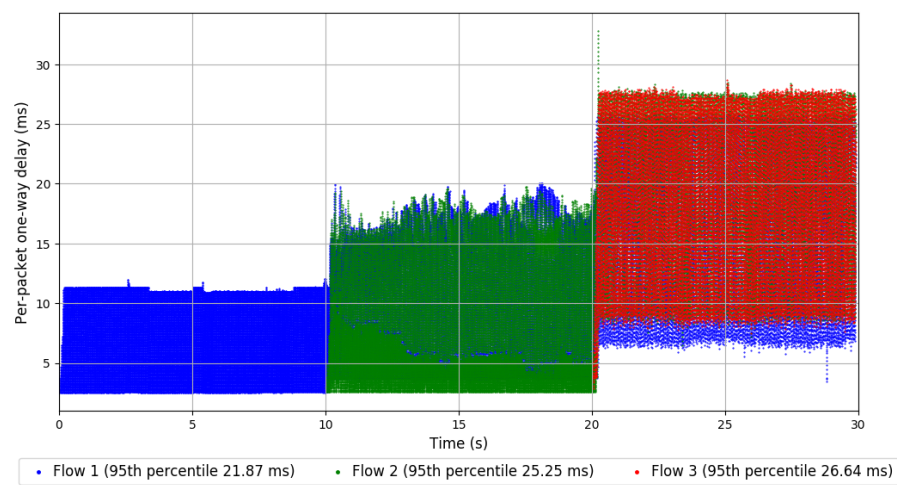
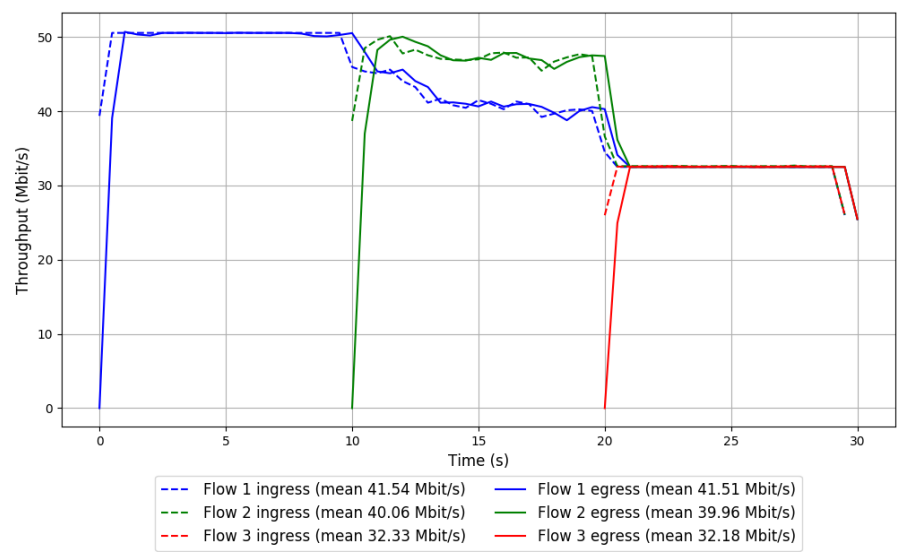


### Run 3: Statistics of Sprout

Start at: 2019-09-18 23:48:03  
End at: 2019-09-18 23:48:33  
Local clock offset: -10.228 ms  
Remote clock offset: -1.582 ms

# Below is generated by plot.py at 2019-09-19 01:13:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.71 Mbit/s  
95th percentile per-packet one-way delay: 24.587 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 41.51 Mbit/s  
95th percentile per-packet one-way delay: 21.867 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 39.96 Mbit/s  
95th percentile per-packet one-way delay: 25.247 ms  
Loss rate: 0.22%  
-- Flow 3:  
Average throughput: 32.18 Mbit/s  
95th percentile per-packet one-way delay: 26.639 ms  
Loss rate: 0.45%

Run 3: Report of Sprout — Data Link

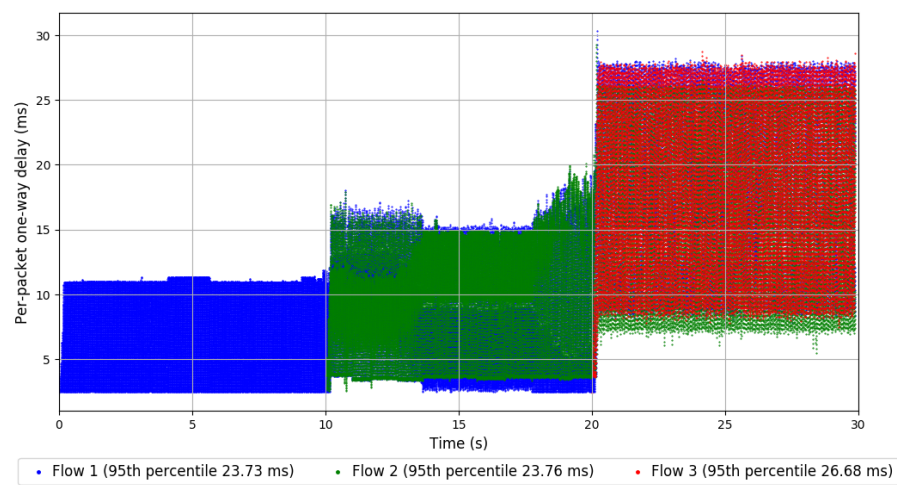
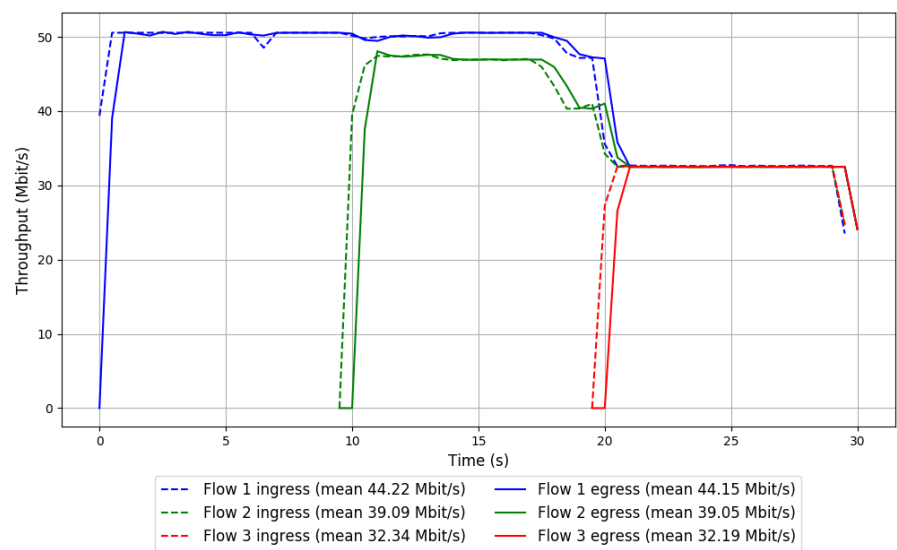


Run 4: Statistics of Sprout

Start at: 2019-09-19 00:15:38  
End at: 2019-09-19 00:16:08  
Local clock offset: -7.452 ms  
Remote clock offset: -0.402 ms

# Below is generated by plot.py at 2019-09-19 01:13:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.77 Mbit/s  
95th percentile per-packet one-way delay: 24.724 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 44.15 Mbit/s  
95th percentile per-packet one-way delay: 23.733 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 39.05 Mbit/s  
95th percentile per-packet one-way delay: 23.761 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 32.19 Mbit/s  
95th percentile per-packet one-way delay: 26.675 ms  
Loss rate: 0.41%

Run 4: Report of Sprout — Data Link

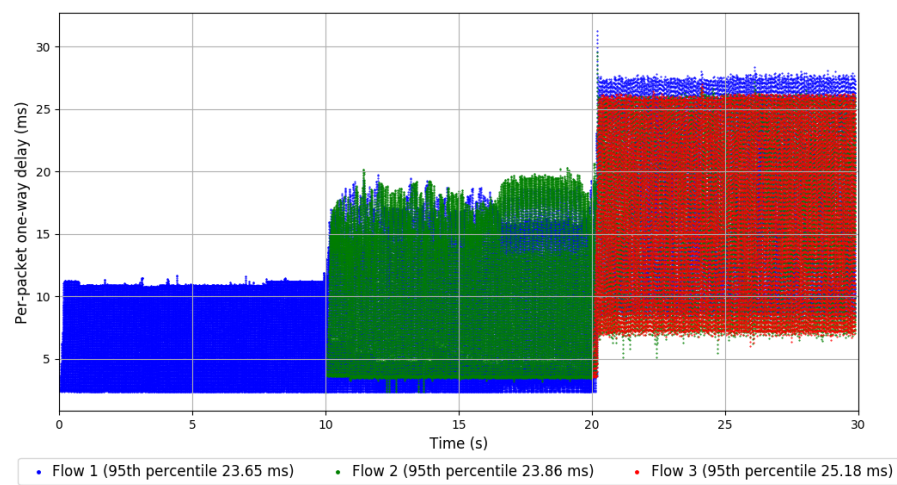
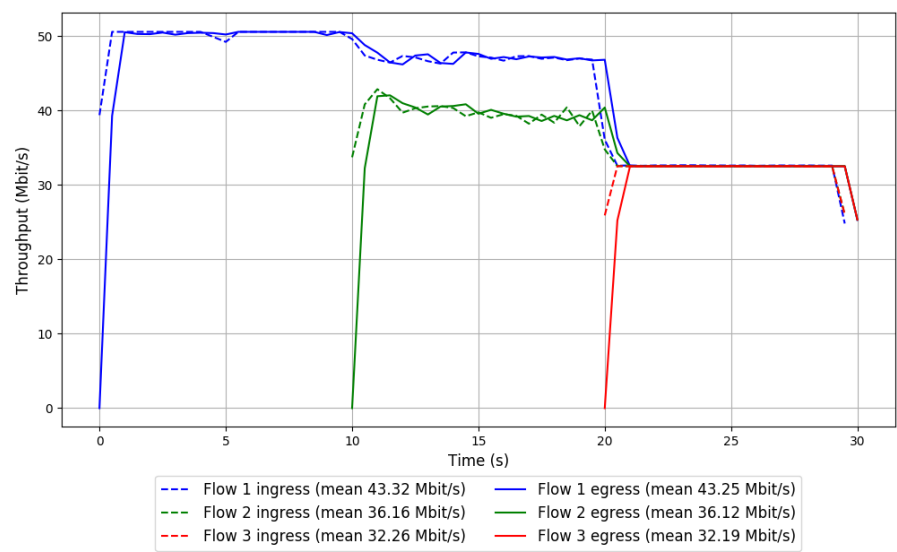


Run 5: Statistics of Sprout

Start at: 2019-09-19 00:43:10  
End at: 2019-09-19 00:43:40  
Local clock offset: -3.905 ms  
Remote clock offset: -0.322 ms

# Below is generated by plot.py at 2019-09-19 01:13:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.90 Mbit/s  
95th percentile per-packet one-way delay: 24.241 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 43.25 Mbit/s  
95th percentile per-packet one-way delay: 23.651 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 36.12 Mbit/s  
95th percentile per-packet one-way delay: 23.858 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 32.19 Mbit/s  
95th percentile per-packet one-way delay: 25.177 ms  
Loss rate: 0.22%

Run 5: Report of Sprout — Data Link

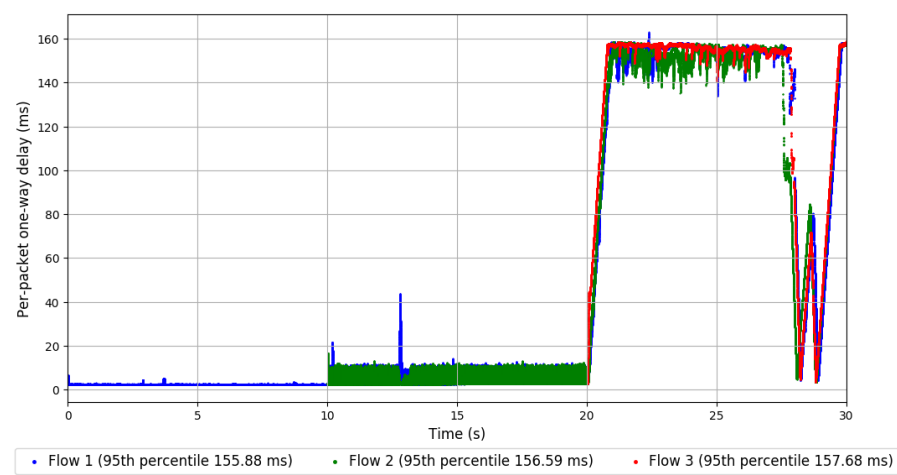
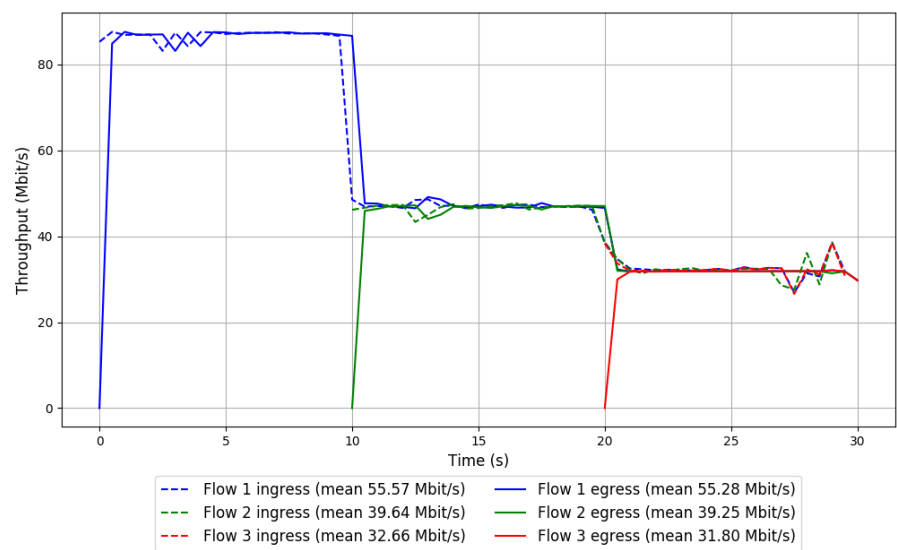


Run 1: Statistics of TaoVA-100x

Start at: 2019-09-18 22:59:53  
End at: 2019-09-18 23:00:23  
Local clock offset: 2.205 ms  
Remote clock offset: -2.535 ms

# Below is generated by plot.py at 2019-09-19 01:15:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.98 Mbit/s  
95th percentile per-packet one-way delay: 156.965 ms  
Loss rate: 0.91%  
-- Flow 1:  
Average throughput: 55.28 Mbit/s  
95th percentile per-packet one-way delay: 155.880 ms  
Loss rate: 0.52%  
-- Flow 2:  
Average throughput: 39.25 Mbit/s  
95th percentile per-packet one-way delay: 156.588 ms  
Loss rate: 1.01%  
-- Flow 3:  
Average throughput: 31.80 Mbit/s  
95th percentile per-packet one-way delay: 157.676 ms  
Loss rate: 2.65%

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

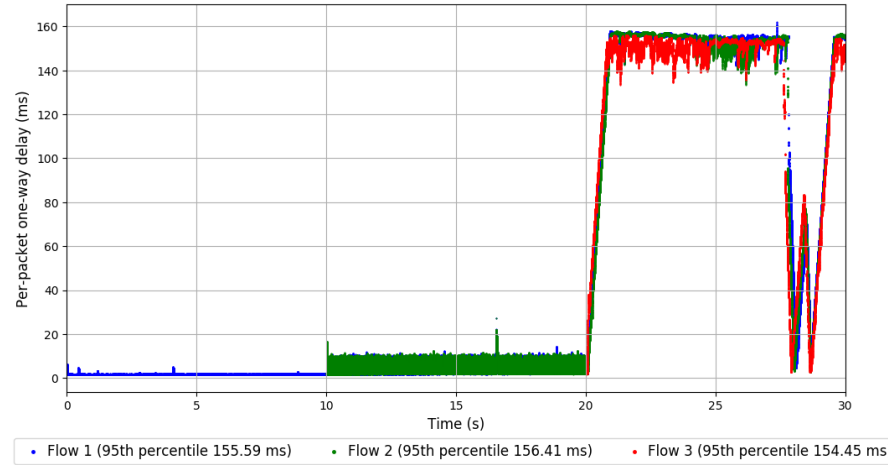
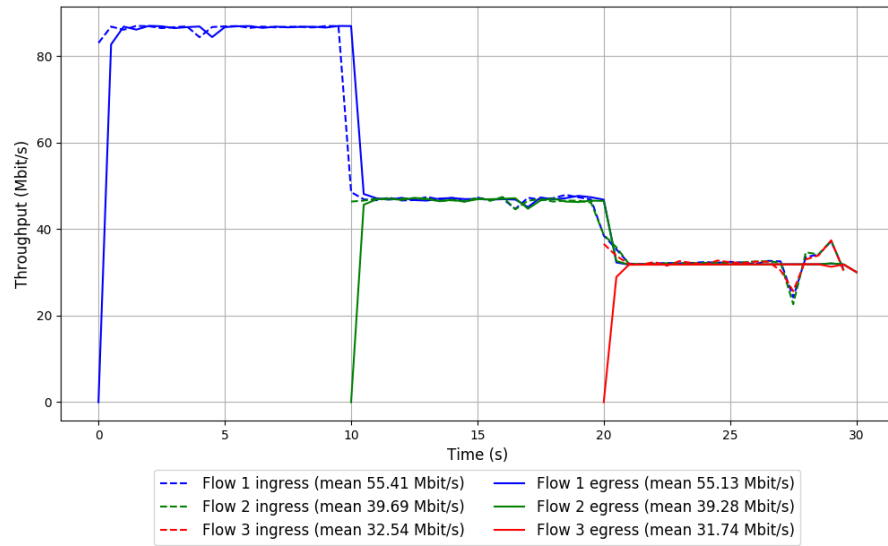


Run 2: Statistics of TaoVA-100x

Start at: 2019-09-18 23:27:26  
End at: 2019-09-18 23:27:56  
Local clock offset: -8.405 ms  
Remote clock offset: -2.336 ms

# Below is generated by plot.py at 2019-09-19 01:15:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.82 Mbit/s  
95th percentile per-packet one-way delay: 155.846 ms  
Loss rate: 0.90%  
-- Flow 1:  
Average throughput: 55.13 Mbit/s  
95th percentile per-packet one-way delay: 155.595 ms  
Loss rate: 0.52%  
-- Flow 2:  
Average throughput: 39.28 Mbit/s  
95th percentile per-packet one-way delay: 156.415 ms  
Loss rate: 1.04%  
-- Flow 3:  
Average throughput: 31.74 Mbit/s  
95th percentile per-packet one-way delay: 154.451 ms  
Loss rate: 2.50%

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

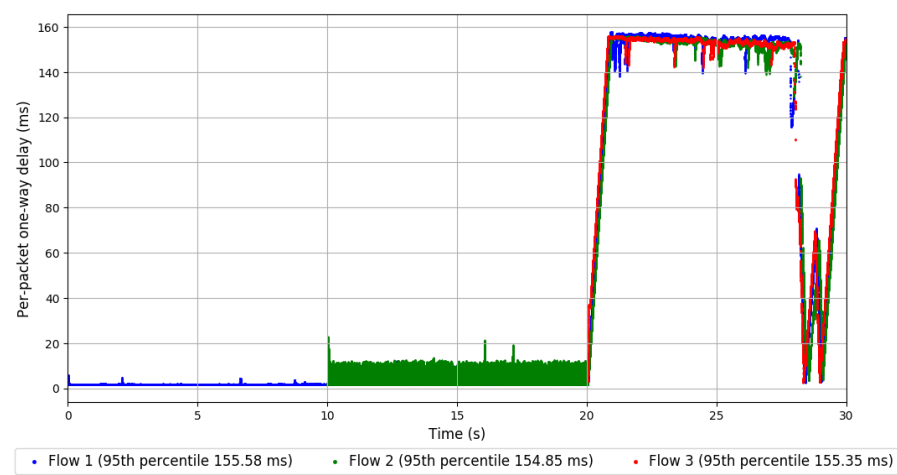
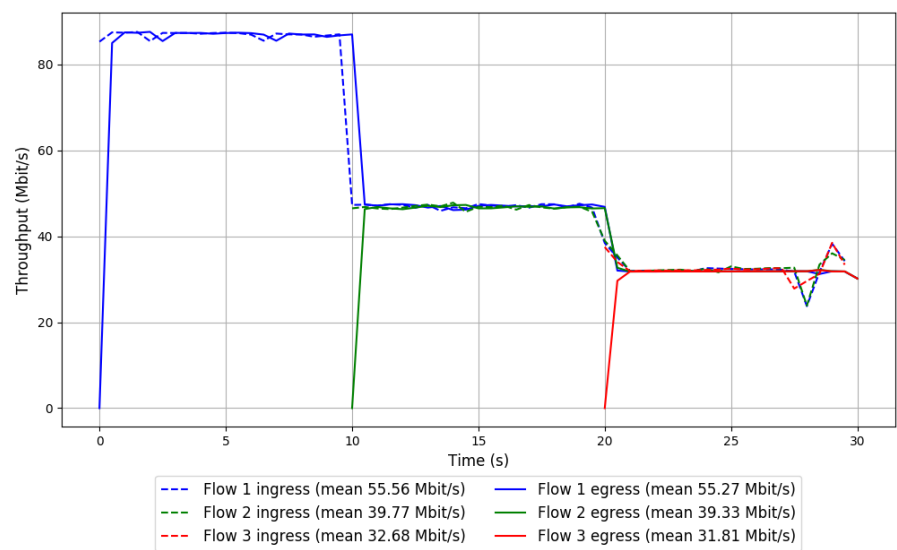


Run 3: Statistics of TaoVA-100x

Start at: 2019-09-18 23:54:57  
End at: 2019-09-18 23:55:27  
Local clock offset: -11.896 ms  
Remote clock offset: -1.175 ms

# Below is generated by plot.py at 2019-09-19 01:15:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.03 Mbit/s  
95th percentile per-packet one-way delay: 155.276 ms  
Loss rate: 0.96%  
-- Flow 1:  
Average throughput: 55.27 Mbit/s  
95th percentile per-packet one-way delay: 155.584 ms  
Loss rate: 0.53%  
-- Flow 2:  
Average throughput: 39.33 Mbit/s  
95th percentile per-packet one-way delay: 154.851 ms  
Loss rate: 1.14%  
-- Flow 3:  
Average throughput: 31.81 Mbit/s  
95th percentile per-packet one-way delay: 155.350 ms  
Loss rate: 2.73%

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

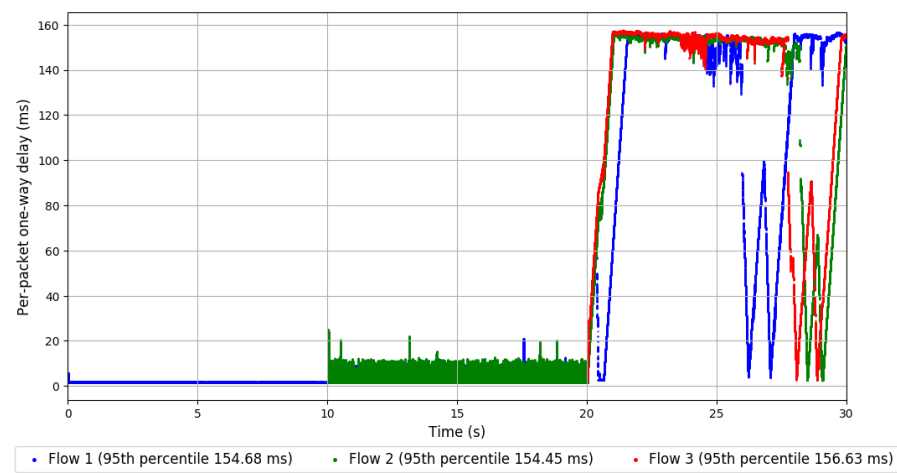
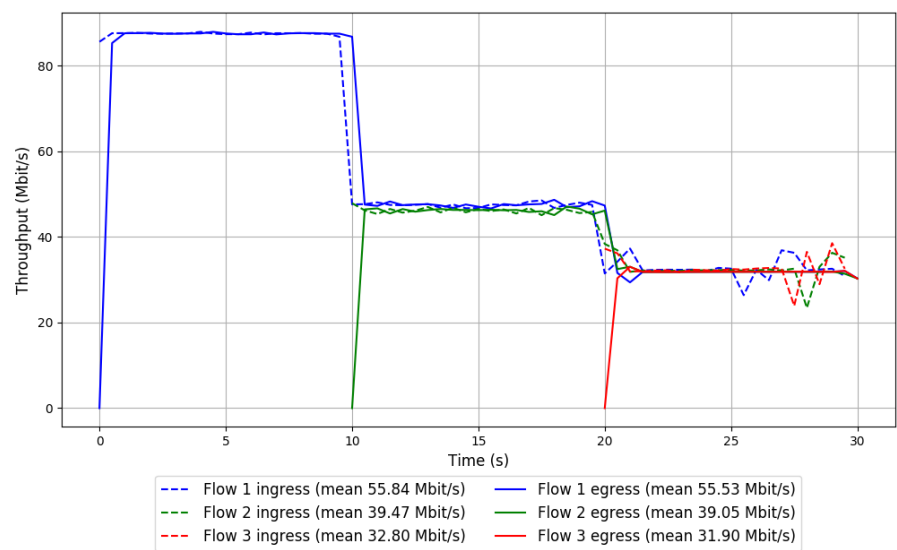


Run 4: Statistics of TaoVA-100x

Start at: 2019-09-19 00:22:31  
End at: 2019-09-19 00:23:01  
Local clock offset: -7.845 ms  
Remote clock offset: -0.311 ms

# Below is generated by plot.py at 2019-09-19 01:15:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.14 Mbit/s  
95th percentile per-packet one-way delay: 155.274 ms  
Loss rate: 0.98%  
-- Flow 1:  
Average throughput: 55.53 Mbit/s  
95th percentile per-packet one-way delay: 154.683 ms  
Loss rate: 0.57%  
-- Flow 2:  
Average throughput: 39.05 Mbit/s  
95th percentile per-packet one-way delay: 154.453 ms  
Loss rate: 1.09%  
-- Flow 3:  
Average throughput: 31.90 Mbit/s  
95th percentile per-packet one-way delay: 156.632 ms  
Loss rate: 2.78%

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

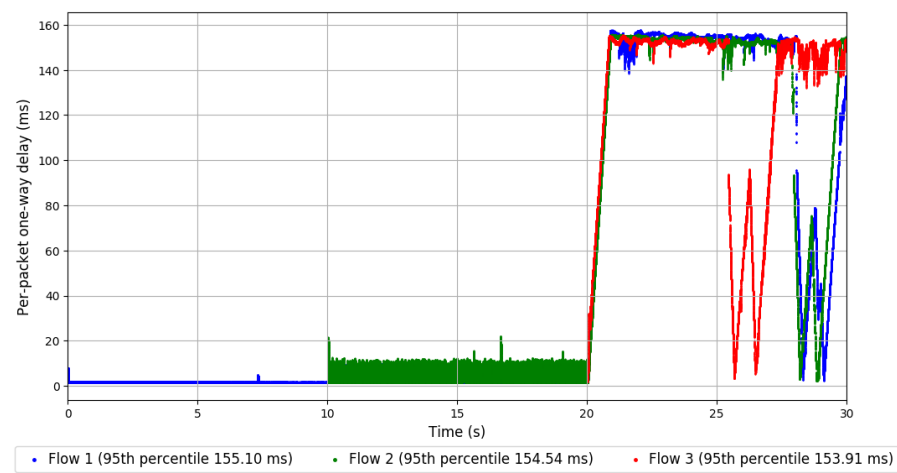
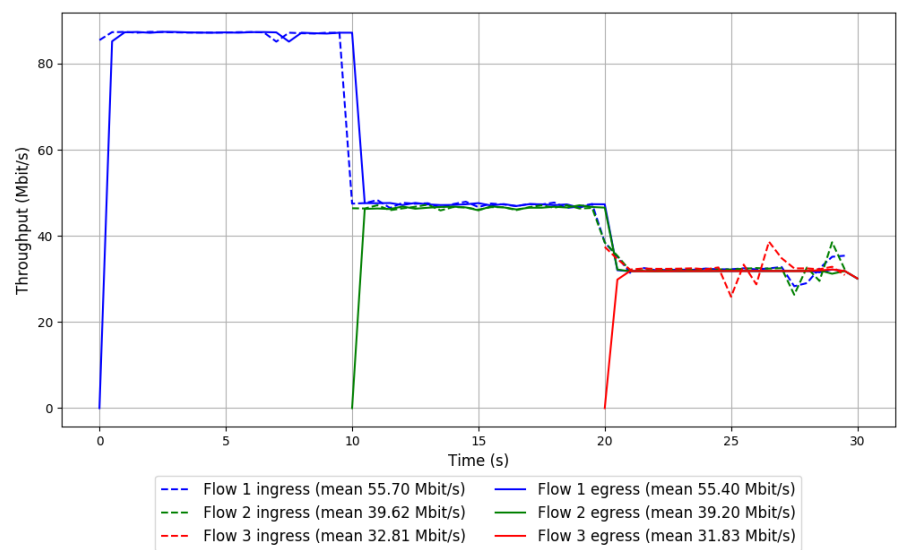


Run 5: Statistics of TaoVA-100x

Start at: 2019-09-19 00:50:03  
End at: 2019-09-19 00:50:33  
Local clock offset: -3.916 ms  
Remote clock offset: -0.381 ms

# Below is generated by plot.py at 2019-09-19 01:15:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.08 Mbit/s  
95th percentile per-packet one-way delay: 154.737 ms  
Loss rate: 1.00%  
-- Flow 1:  
Average throughput: 55.40 Mbit/s  
95th percentile per-packet one-way delay: 155.104 ms  
Loss rate: 0.55%  
-- Flow 2:  
Average throughput: 39.20 Mbit/s  
95th percentile per-packet one-way delay: 154.543 ms  
Loss rate: 1.10%  
-- Flow 3:  
Average throughput: 31.83 Mbit/s  
95th percentile per-packet one-way delay: 153.911 ms  
Loss rate: 3.05%

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

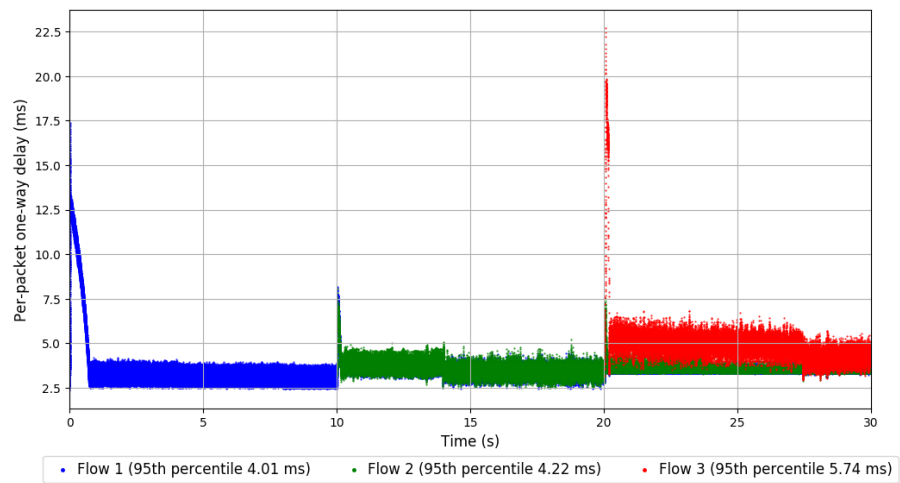
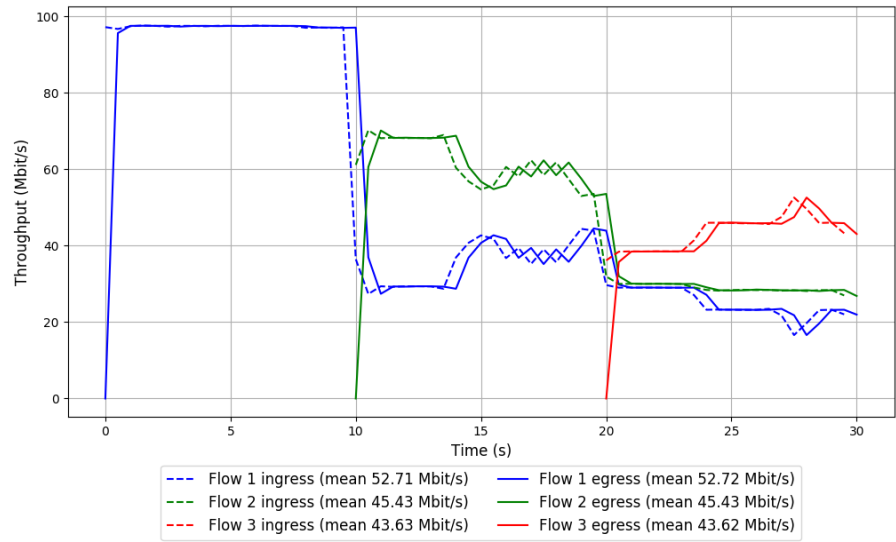


Run 1: Statistics of TCP Vegas

Start at: 2019-09-18 22:57:35  
End at: 2019-09-18 22:58:05  
Local clock offset: 2.289 ms  
Remote clock offset: -2.362 ms

# Below is generated by plot.py at 2019-09-19 01:15:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.45 Mbit/s  
95th percentile per-packet one-way delay: 5.326 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 52.72 Mbit/s  
95th percentile per-packet one-way delay: 4.008 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 45.43 Mbit/s  
95th percentile per-packet one-way delay: 4.221 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 43.62 Mbit/s  
95th percentile per-packet one-way delay: 5.741 ms  
Loss rate: 0.07%

# Run 1: Report of TCP Vegas — Data Link

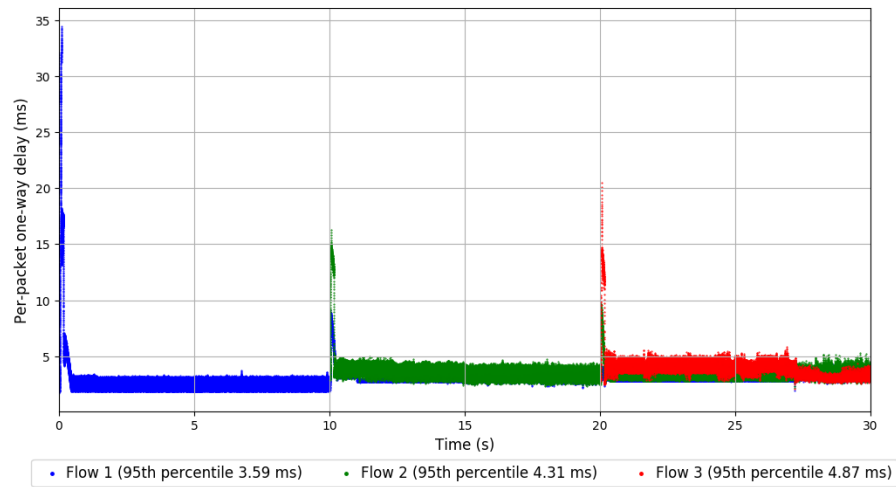
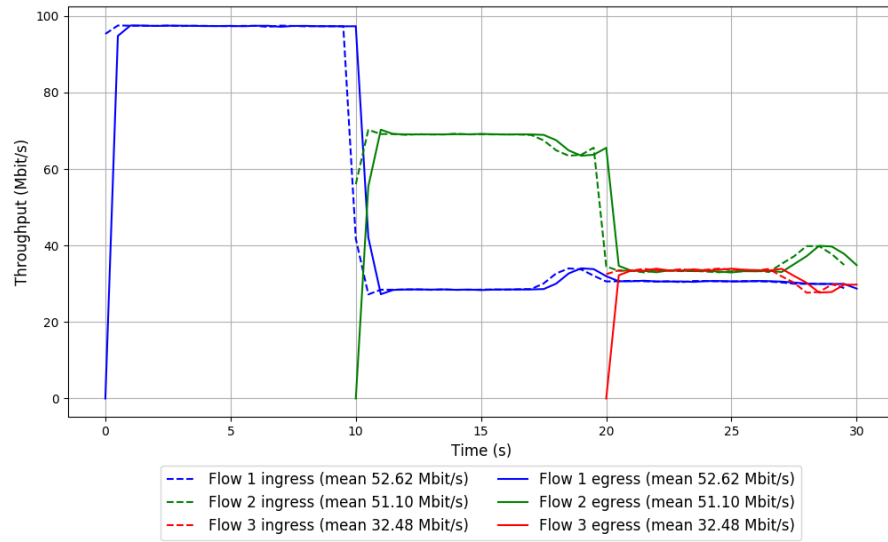


Run 2: Statistics of TCP Vegas

Start at: 2019-09-18 23:25:08  
End at: 2019-09-18 23:25:38  
Local clock offset: -8.094 ms  
Remote clock offset: -2.626 ms

# Below is generated by plot.py at 2019-09-19 01:15:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.43 Mbit/s  
95th percentile per-packet one-way delay: 4.420 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 52.62 Mbit/s  
95th percentile per-packet one-way delay: 3.588 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 51.10 Mbit/s  
95th percentile per-packet one-way delay: 4.314 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 32.48 Mbit/s  
95th percentile per-packet one-way delay: 4.873 ms  
Loss rate: 0.06%

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

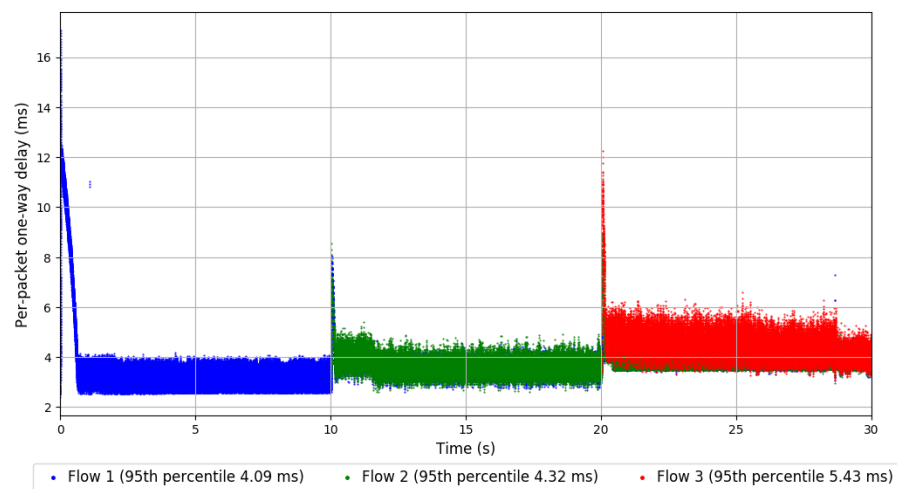
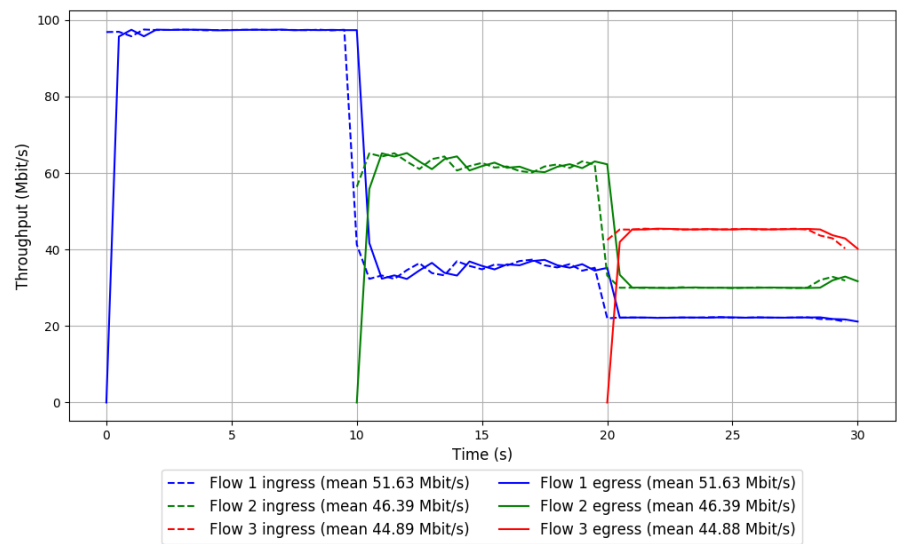


Run 3: Statistics of TCP Vegas

Start at: 2019-09-18 23:52:40  
End at: 2019-09-18 23:53:10  
Local clock offset: -10.773 ms  
Remote clock offset: -1.391 ms

# Below is generated by plot.py at 2019-09-19 01:15:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.43 Mbit/s  
95th percentile per-packet one-way delay: 5.013 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 51.63 Mbit/s  
95th percentile per-packet one-way delay: 4.090 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 46.39 Mbit/s  
95th percentile per-packet one-way delay: 4.316 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 44.88 Mbit/s  
95th percentile per-packet one-way delay: 5.434 ms  
Loss rate: 0.05%

Run 3: Report of TCP Vegas — Data Link

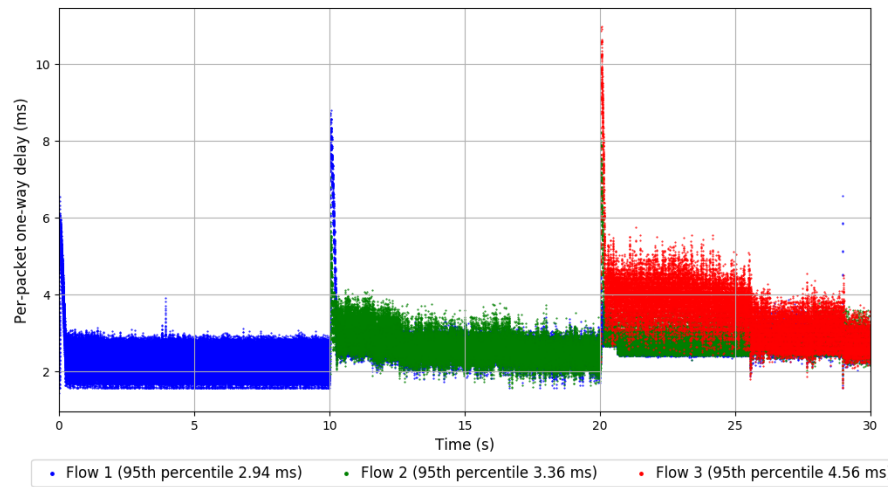
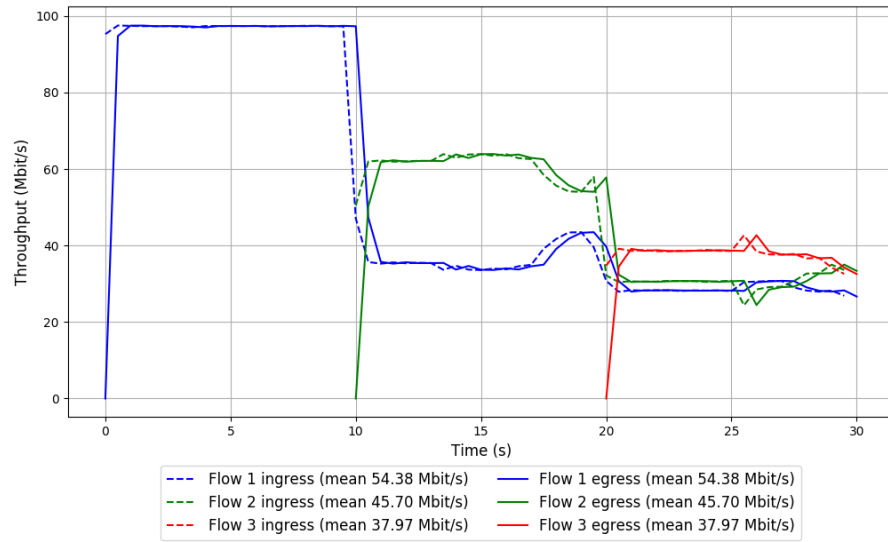


Run 4: Statistics of TCP Vegas

Start at: 2019-09-19 00:20:14  
End at: 2019-09-19 00:20:44  
Local clock offset: -7.99 ms  
Remote clock offset: -0.238 ms

# Below is generated by plot.py at 2019-09-19 01:15:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.42 Mbit/s  
95th percentile per-packet one-way delay: 3.849 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 54.38 Mbit/s  
95th percentile per-packet one-way delay: 2.937 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 45.70 Mbit/s  
95th percentile per-packet one-way delay: 3.363 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 37.97 Mbit/s  
95th percentile per-packet one-way delay: 4.562 ms  
Loss rate: 0.04%

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

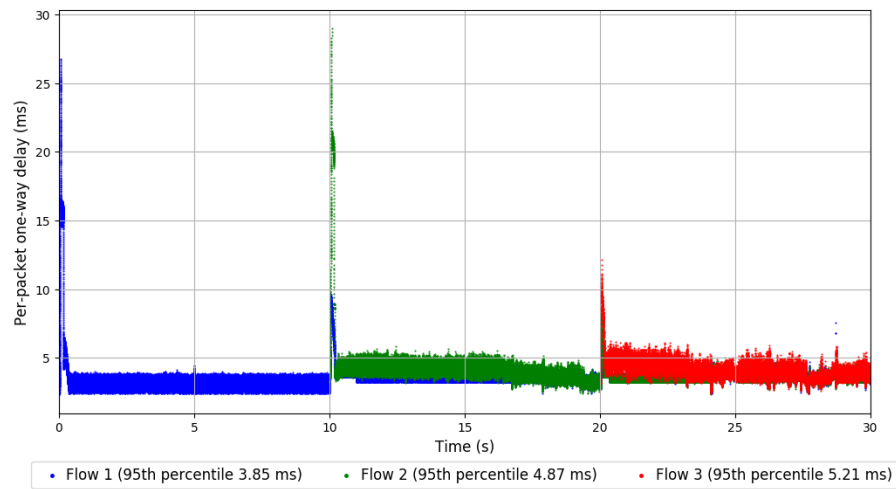
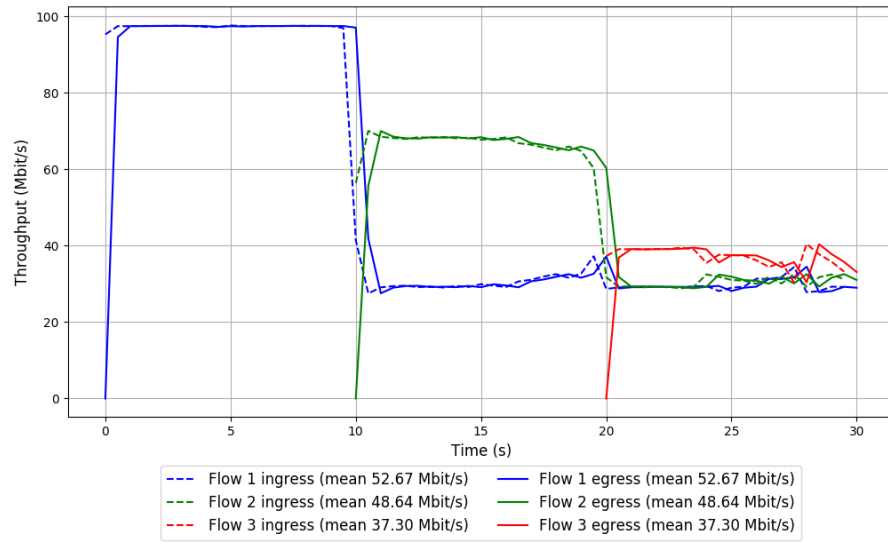


Run 5: Statistics of TCP Vegas

Start at: 2019-09-19 00:47:46  
End at: 2019-09-19 00:48:16  
Local clock offset: -3.366 ms  
Remote clock offset: -0.359 ms

# Below is generated by plot.py at 2019-09-19 01:15:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.45 Mbit/s  
95th percentile per-packet one-way delay: 4.818 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 52.67 Mbit/s  
95th percentile per-packet one-way delay: 3.850 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 48.64 Mbit/s  
95th percentile per-packet one-way delay: 4.865 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 37.30 Mbit/s  
95th percentile per-packet one-way delay: 5.214 ms  
Loss rate: 0.06%

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

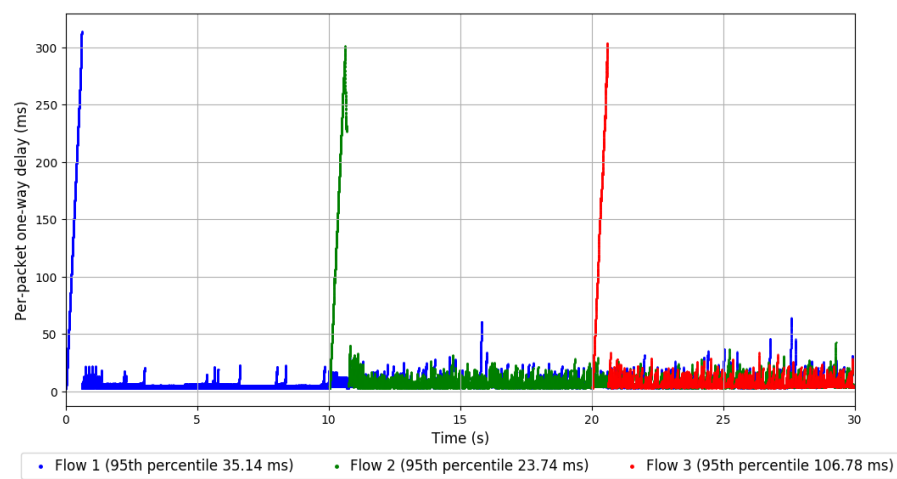
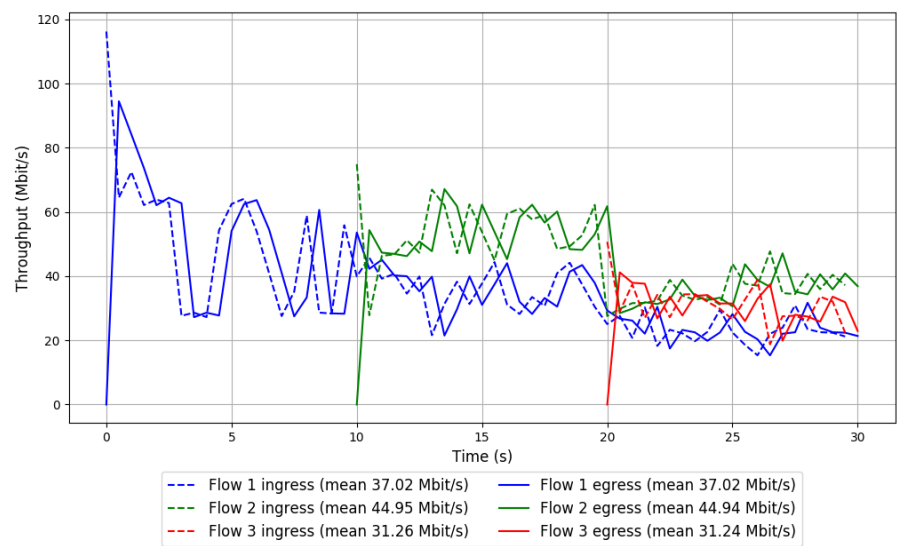


Run 1: Statistics of Verus

Start at: 2019-09-18 23:01:05  
End at: 2019-09-18 23:01:35  
Local clock offset: 1.744 ms  
Remote clock offset: -2.515 ms

# Below is generated by plot.py at 2019-09-19 01:15:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.31 Mbit/s  
95th percentile per-packet one-way delay: 31.824 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 37.02 Mbit/s  
95th percentile per-packet one-way delay: 35.140 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 44.94 Mbit/s  
95th percentile per-packet one-way delay: 23.743 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 31.24 Mbit/s  
95th percentile per-packet one-way delay: 106.785 ms  
Loss rate: 0.10%

Run 1: Report of Verus — Data Link

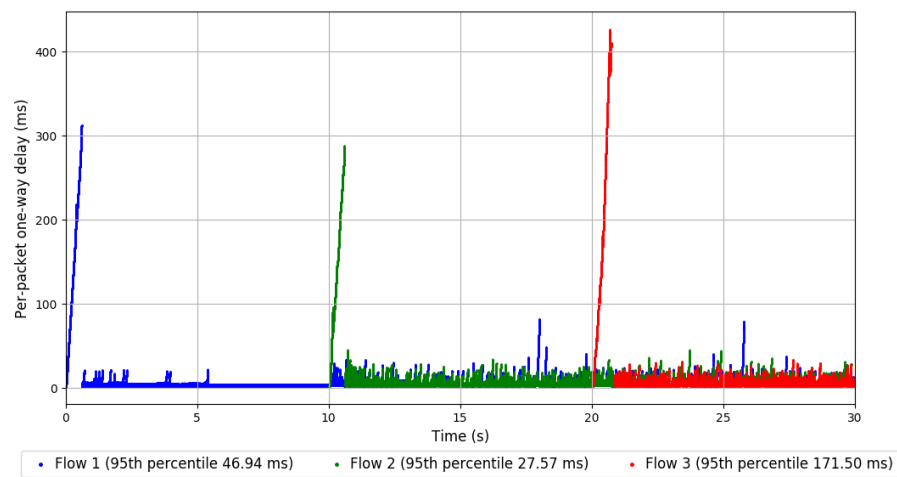
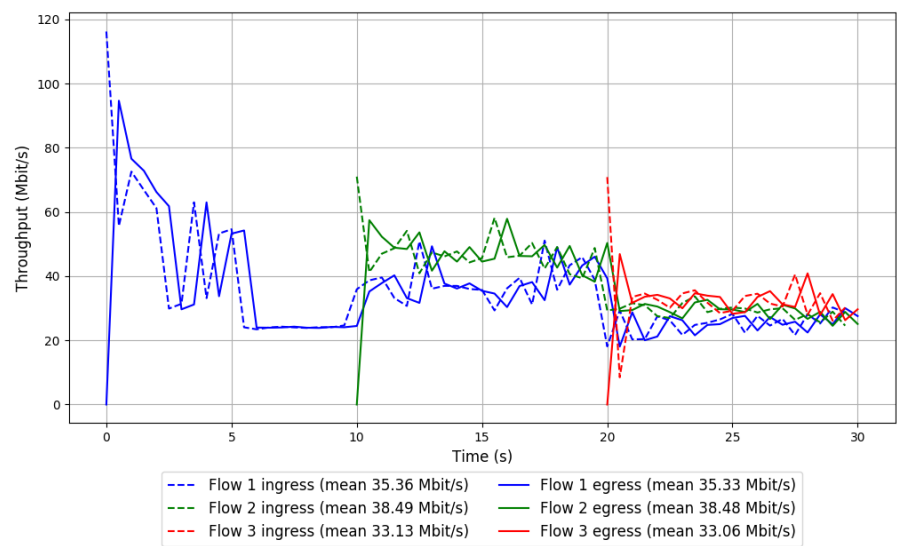


Run 2: Statistics of Verus

Start at: 2019-09-18 23:28:38  
End at: 2019-09-18 23:29:08  
Local clock offset: -8.616 ms  
Remote clock offset: -2.392 ms

# Below is generated by plot.py at 2019-09-19 01:15:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 71.93 Mbit/s  
95th percentile per-packet one-way delay: 56.951 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 35.33 Mbit/s  
95th percentile per-packet one-way delay: 46.941 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 38.48 Mbit/s  
95th percentile per-packet one-way delay: 27.568 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 33.06 Mbit/s  
95th percentile per-packet one-way delay: 171.505 ms  
Loss rate: 0.25%

Run 2: Report of Verus — Data Link

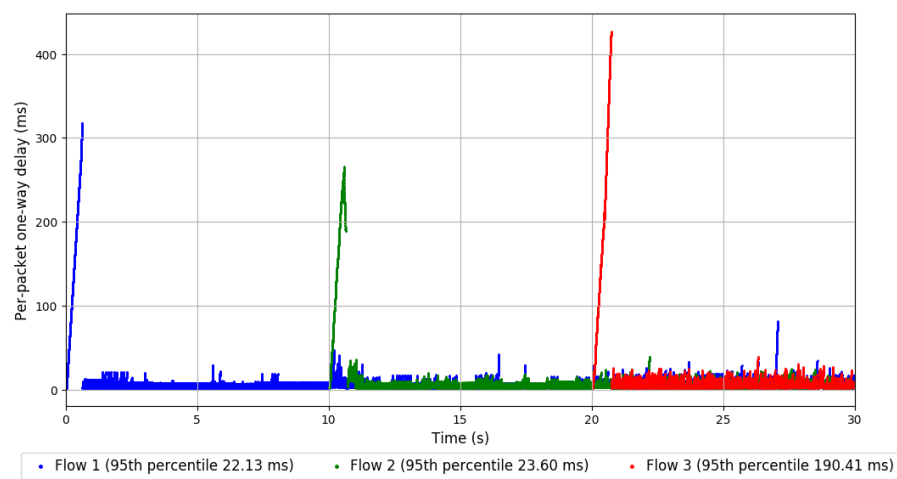
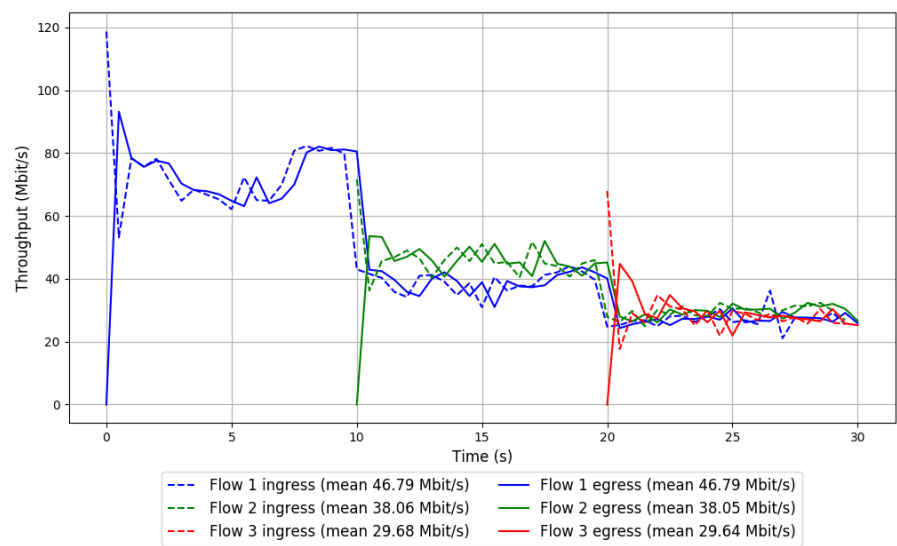


Run 3: Statistics of Verus

Start at: 2019-09-18 23:56:09  
End at: 2019-09-18 23:56:39  
Local clock offset: -11.924 ms  
Remote clock offset: -1.062 ms

# Below is generated by plot.py at 2019-09-19 01:16:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.96 Mbit/s  
95th percentile per-packet one-way delay: 30.389 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 46.79 Mbit/s  
95th percentile per-packet one-way delay: 22.126 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 38.05 Mbit/s  
95th percentile per-packet one-way delay: 23.600 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 29.64 Mbit/s  
95th percentile per-packet one-way delay: 190.413 ms  
Loss rate: 0.18%

Run 3: Report of Verus — Data Link

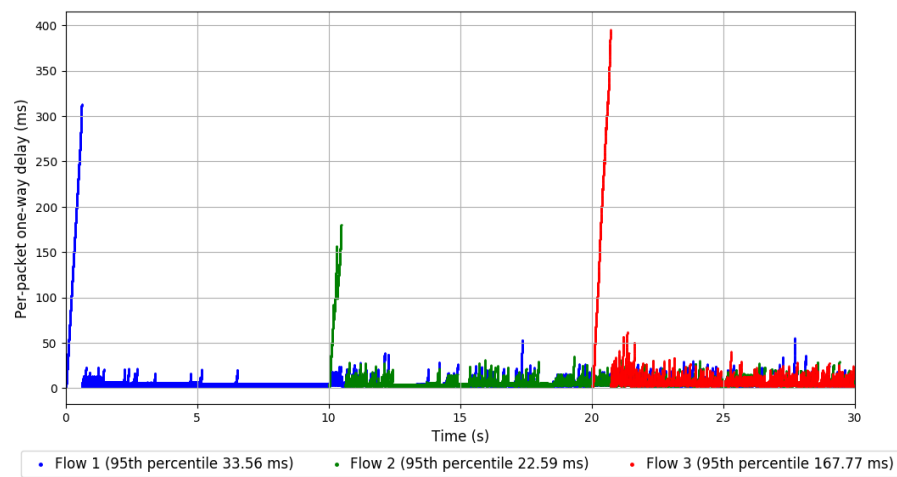
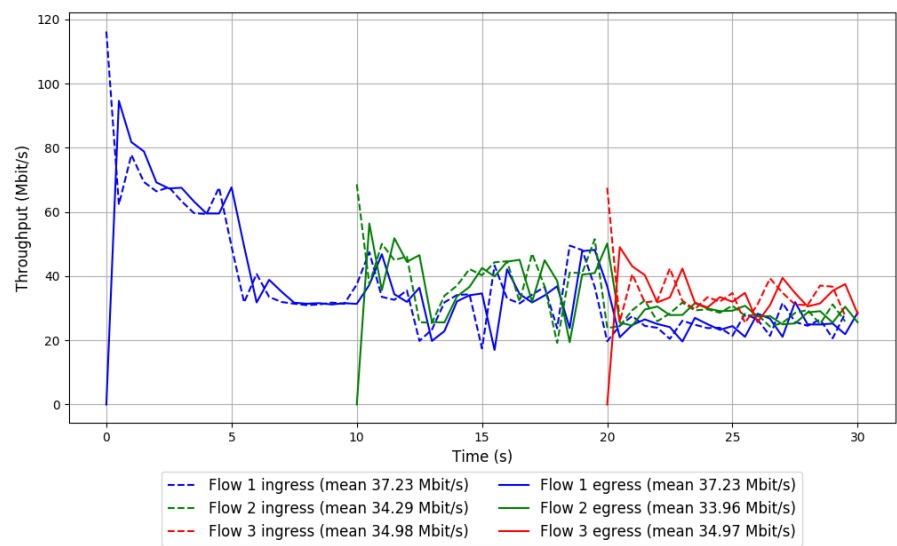


Run 4: Statistics of Verus

Start at: 2019-09-19 00:23:44  
End at: 2019-09-19 00:24:14  
Local clock offset: -7.032 ms  
Remote clock offset: -0.215 ms

# Below is generated by plot.py at 2019-09-19 01:16:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 71.46 Mbit/s  
95th percentile per-packet one-way delay: 38.610 ms  
Loss rate: 0.33%  
-- Flow 1:  
Average throughput: 37.23 Mbit/s  
95th percentile per-packet one-way delay: 33.561 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 33.96 Mbit/s  
95th percentile per-packet one-way delay: 22.594 ms  
Loss rate: 0.97%  
-- Flow 3:  
Average throughput: 34.97 Mbit/s  
95th percentile per-packet one-way delay: 167.768 ms  
Loss rate: 0.09%

Run 4: Report of Verus — Data Link

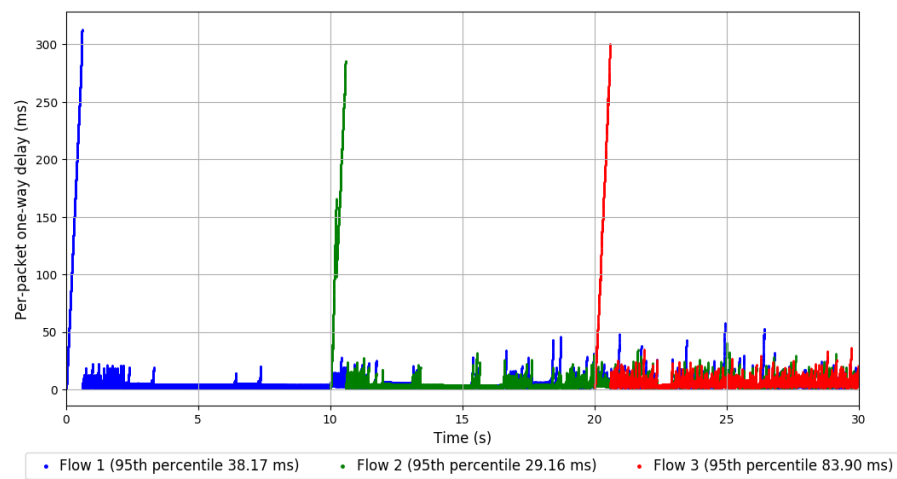
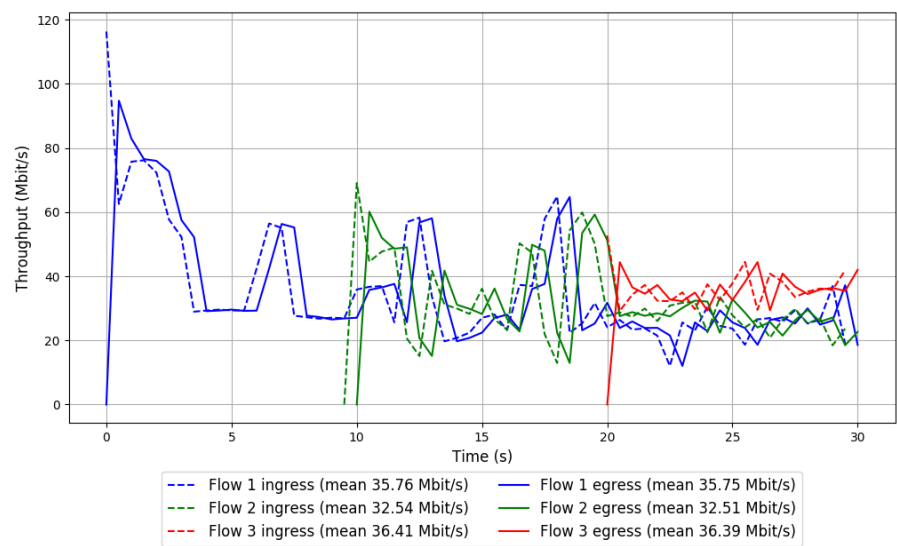


Run 5: Statistics of Verus

Start at: 2019-09-19 00:51:16  
End at: 2019-09-19 00:51:46  
Local clock offset: -3.823 ms  
Remote clock offset: -0.382 ms

# Below is generated by plot.py at 2019-09-19 01:16:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.51 Mbit/s  
95th percentile per-packet one-way delay: 39.563 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 35.75 Mbit/s  
95th percentile per-packet one-way delay: 38.167 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 32.51 Mbit/s  
95th percentile per-packet one-way delay: 29.164 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 36.39 Mbit/s  
95th percentile per-packet one-way delay: 83.901 ms  
Loss rate: 0.07%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-09-18 22:50:39

End at: 2019-09-18 22:51:09

Local clock offset: 1.493 ms

Remote clock offset: -2.25 ms

# Below is generated by plot.py at 2019-09-19 01:16:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.55 Mbit/s

95th percentile per-packet one-way delay: 11.773 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 58.37 Mbit/s

95th percentile per-packet one-way delay: 34.295 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 28.90 Mbit/s

95th percentile per-packet one-way delay: 3.498 ms

Loss rate: 0.01%

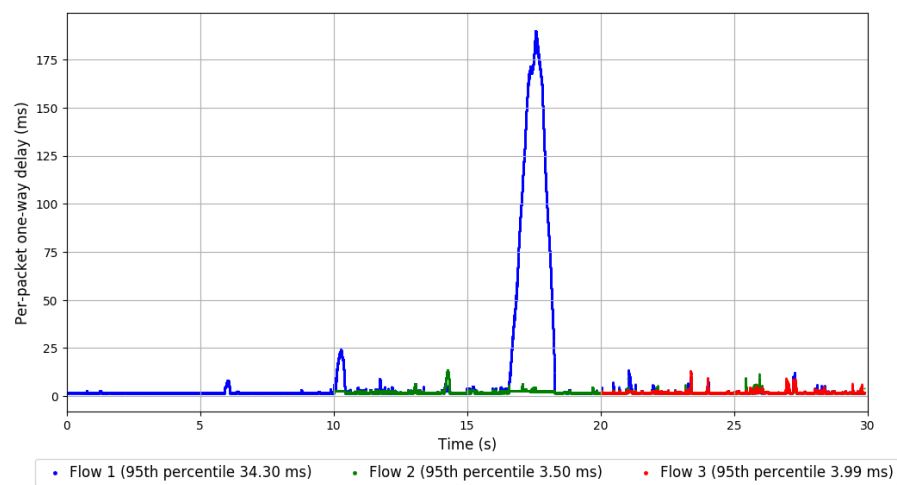
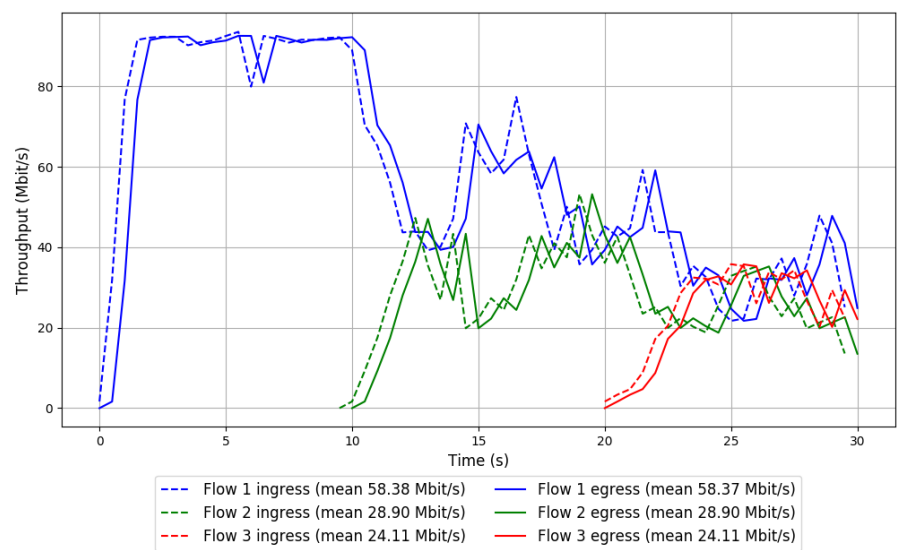
-- Flow 3:

Average throughput: 24.11 Mbit/s

95th percentile per-packet one-way delay: 3.991 ms

Loss rate: 0.06%

Run 1: Report of PCC-Vivace — Data Link

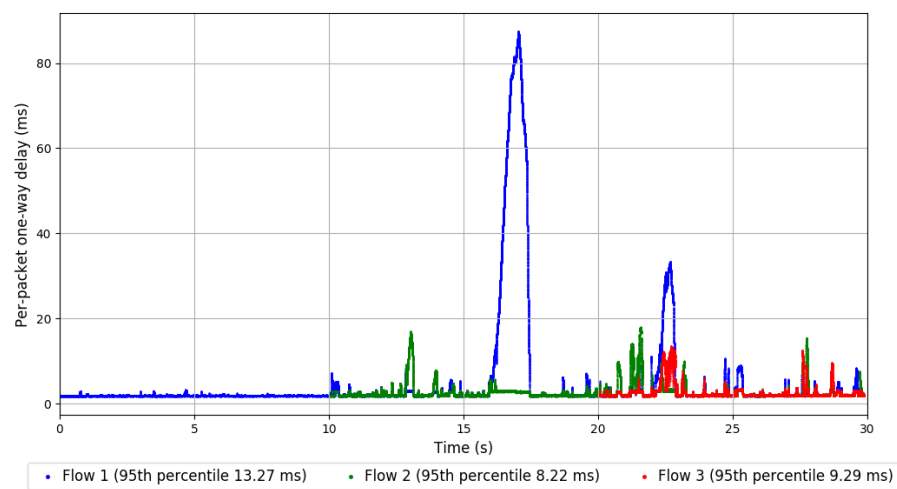
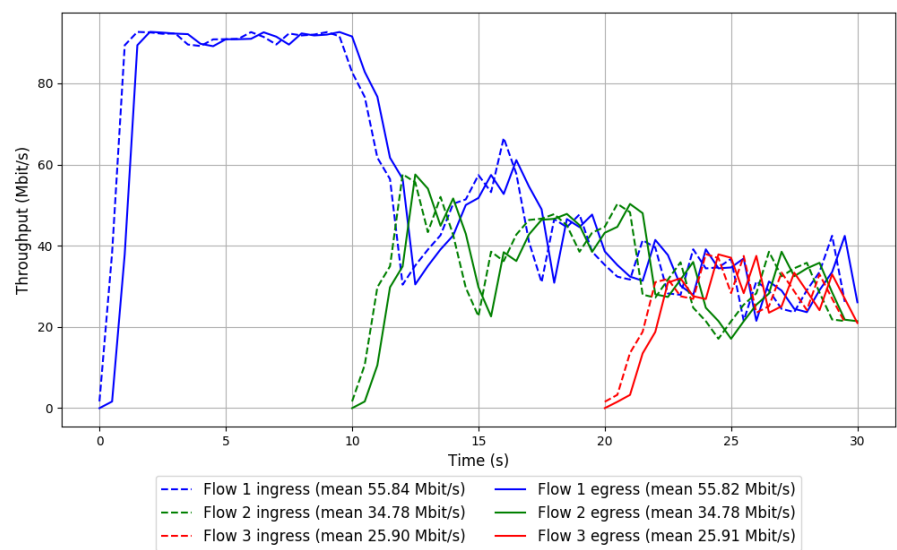


Run 2: Statistics of PCC-Vivace

Start at: 2019-09-18 23:18:12  
End at: 2019-09-18 23:18:42  
Local clock offset: -6.822 ms  
Remote clock offset: -2.685 ms

# Below is generated by plot.py at 2019-09-19 01:16:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.50 Mbit/s  
95th percentile per-packet one-way delay: 9.448 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 55.82 Mbit/s  
95th percentile per-packet one-way delay: 13.272 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 34.78 Mbit/s  
95th percentile per-packet one-way delay: 8.222 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 25.91 Mbit/s  
95th percentile per-packet one-way delay: 9.289 ms  
Loss rate: 0.07%

Run 2: Report of PCC-Vivace — Data Link

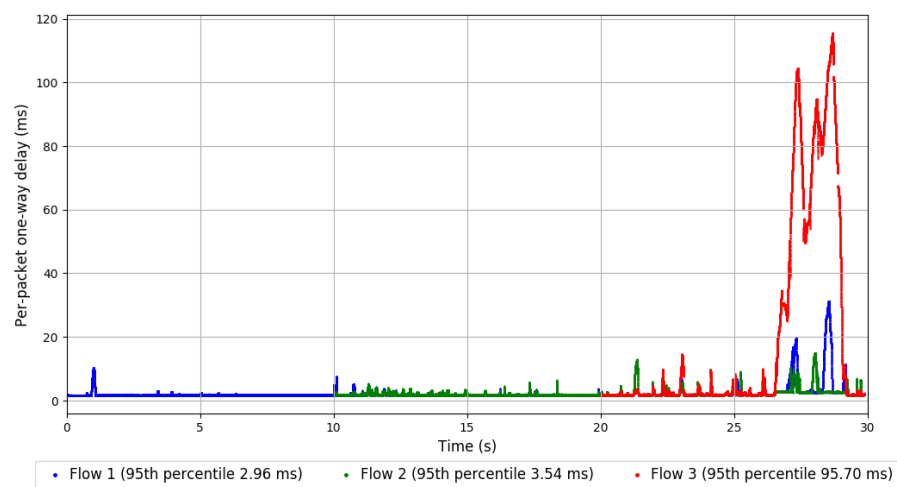
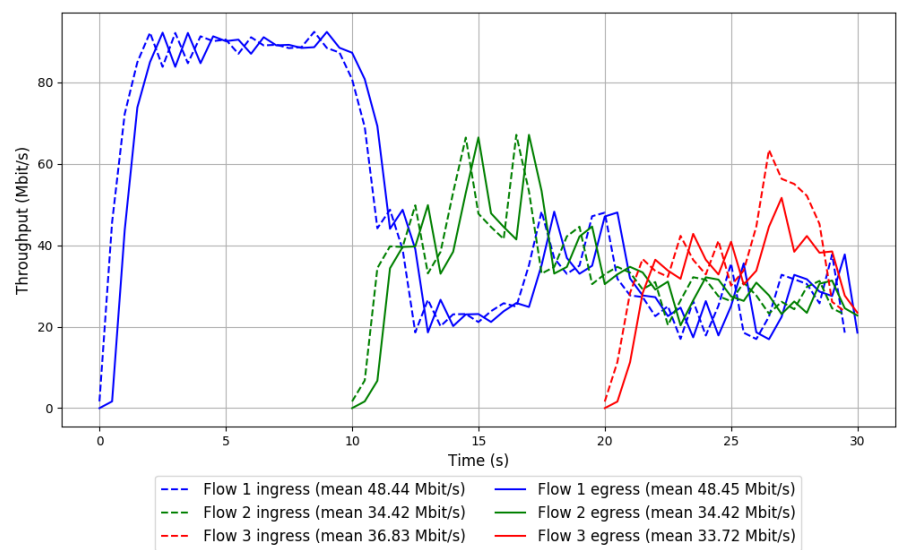


Run 3: Statistics of PCC-Vivace

Start at: 2019-09-18 23:45:44  
End at: 2019-09-18 23:46:14  
Local clock offset: -10.819 ms  
Remote clock offset: -1.597 ms

# Below is generated by plot.py at 2019-09-19 01:16:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.48 Mbit/s  
95th percentile per-packet one-way delay: 11.475 ms  
Loss rate: 1.26%  
-- Flow 1:  
Average throughput: 48.45 Mbit/s  
95th percentile per-packet one-way delay: 2.962 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 34.42 Mbit/s  
95th percentile per-packet one-way delay: 3.540 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 33.72 Mbit/s  
95th percentile per-packet one-way delay: 95.705 ms  
Loss rate: 8.55%

Run 3: Report of PCC-Vivace — Data Link

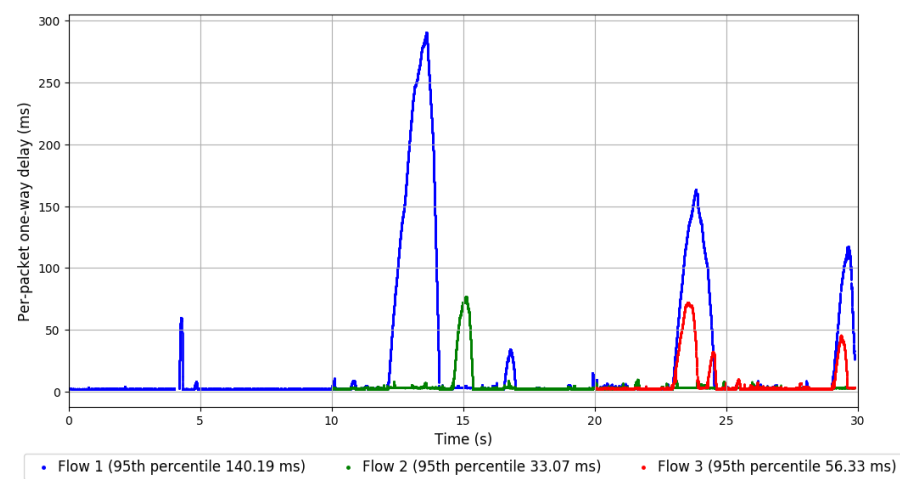
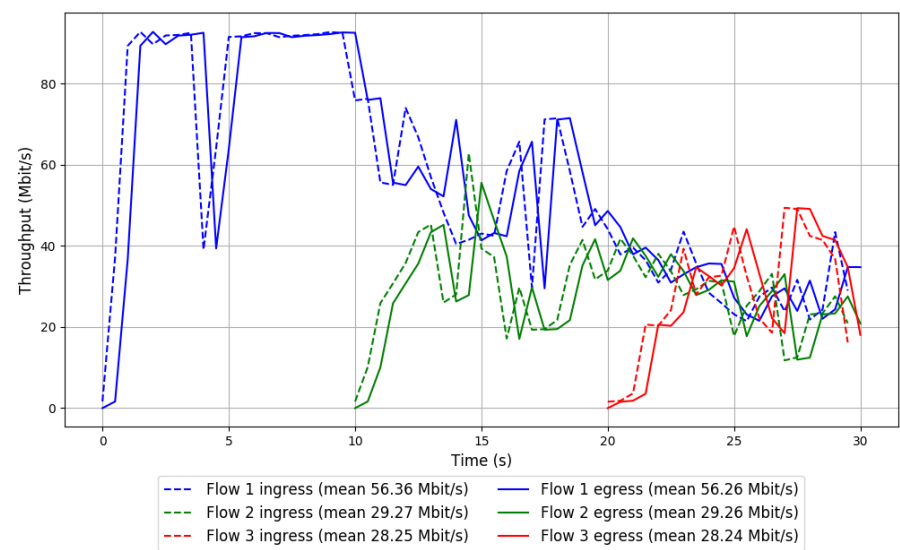


Run 4: Statistics of PCC-Vivace

Start at: 2019-09-19 00:13:18  
End at: 2019-09-19 00:13:48  
Local clock offset: -7.71 ms  
Remote clock offset: -0.493 ms

# Below is generated by plot.py at 2019-09-19 01:16:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.03 Mbit/s  
95th percentile per-packet one-way delay: 100.631 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 56.26 Mbit/s  
95th percentile per-packet one-way delay: 140.193 ms  
Loss rate: 0.20%  
-- Flow 2:  
Average throughput: 29.26 Mbit/s  
95th percentile per-packet one-way delay: 33.072 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 28.24 Mbit/s  
95th percentile per-packet one-way delay: 56.333 ms  
Loss rate: 0.20%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-09-19 00:40:51

End at: 2019-09-19 00:41:21

Local clock offset: -4.18 ms

Remote clock offset: -0.31 ms

# Below is generated by plot.py at 2019-09-19 01:16:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 64.00 Mbit/s

95th percentile per-packet one-way delay: 83.403 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 33.32 Mbit/s

95th percentile per-packet one-way delay: 69.863 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 32.78 Mbit/s

95th percentile per-packet one-way delay: 139.957 ms

Loss rate: 0.25%

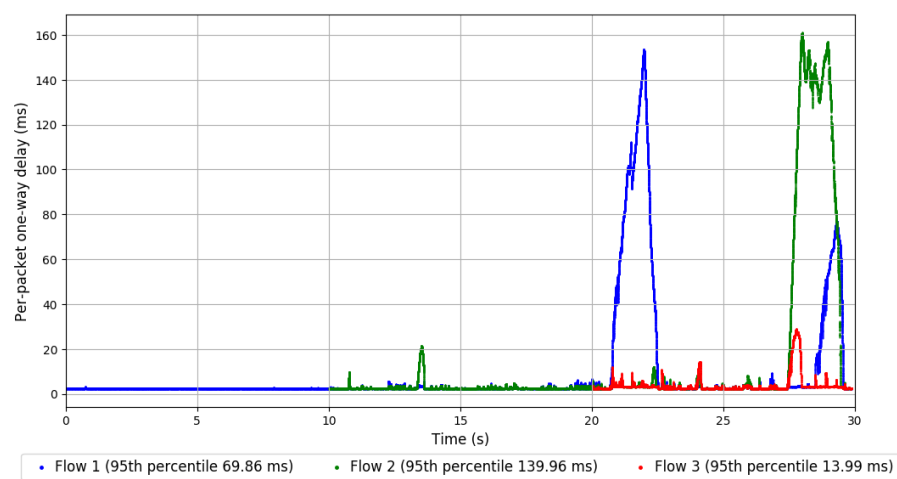
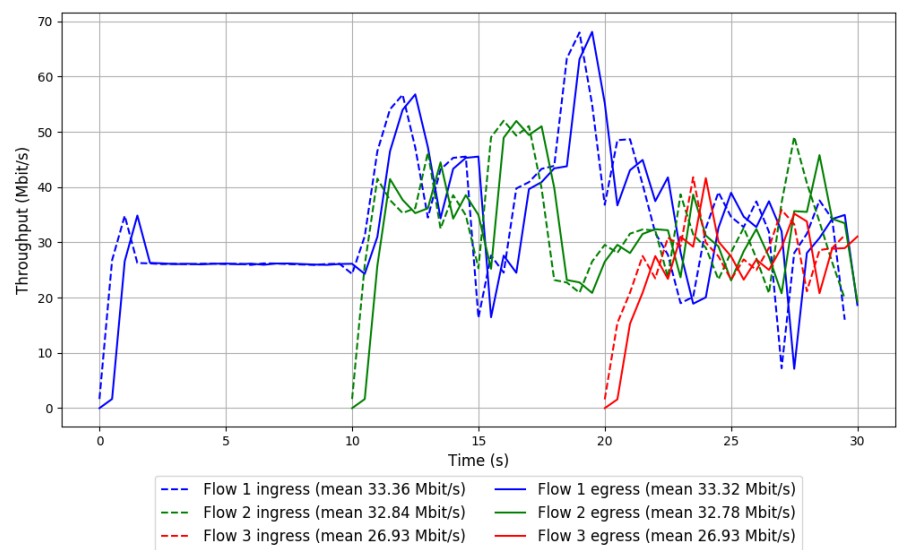
-- Flow 3:

Average throughput: 26.93 Mbit/s

95th percentile per-packet one-way delay: 13.988 ms

Loss rate: 0.12%

Run 5: Report of PCC-Vivace — Data Link

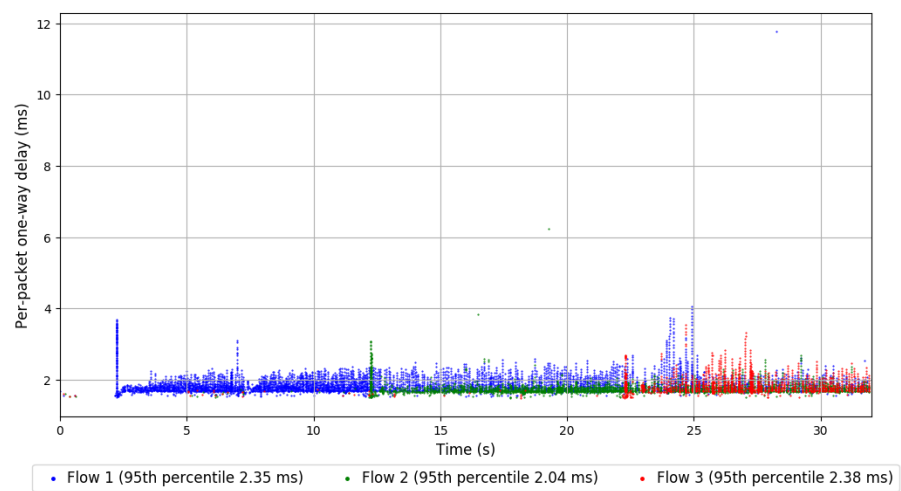
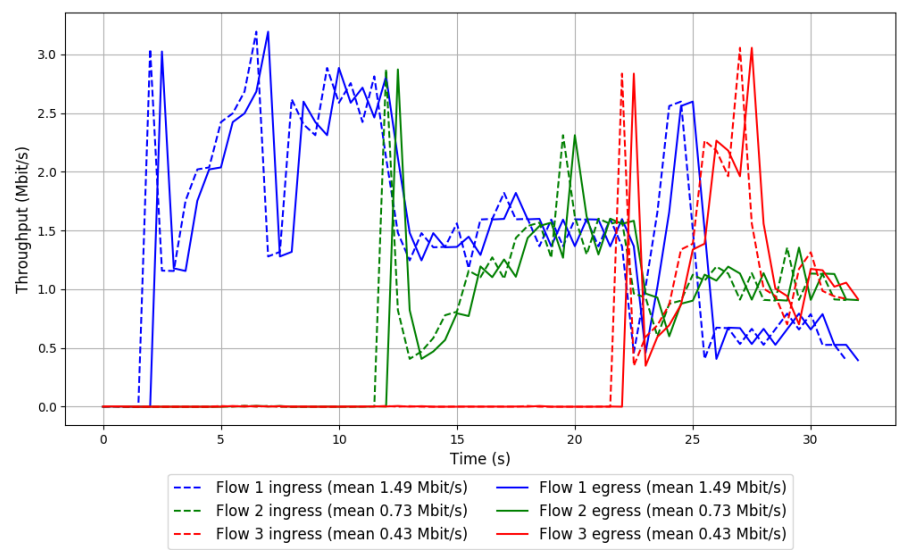


Run 1: Statistics of WebRTC media

Start at: 2019-09-18 22:44:56  
End at: 2019-09-18 22:45:26  
Local clock offset: 1.6 ms  
Remote clock offset: -2.148 ms

# Below is generated by plot.py at 2019-09-19 01:16:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.63 Mbit/s  
95th percentile per-packet one-way delay: 2.305 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.49 Mbit/s  
95th percentile per-packet one-way delay: 2.347 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.73 Mbit/s  
95th percentile per-packet one-way delay: 2.041 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 2.384 ms  
Loss rate: 0.01%

Run 1: Report of WebRTC media — Data Link

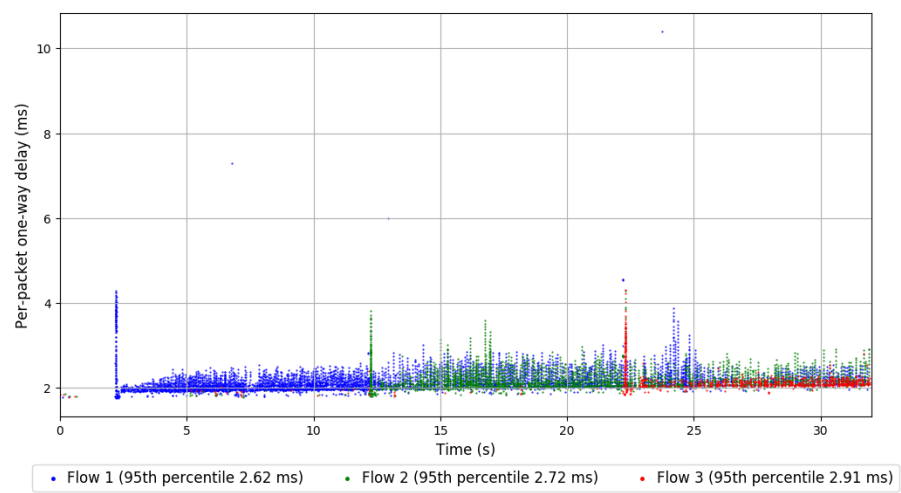
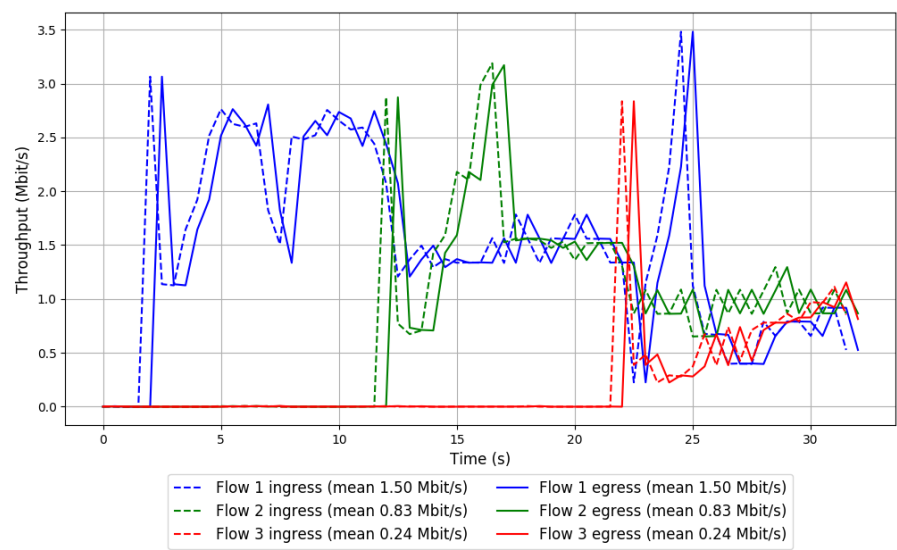


Run 2: Statistics of WebRTC media

Start at: 2019-09-18 23:12:30  
End at: 2019-09-18 23:13:00  
Local clock offset: -5.267 ms  
Remote clock offset: -2.715 ms

# Below is generated by plot.py at 2019-09-19 01:16:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.56 Mbit/s  
95th percentile per-packet one-way delay: 2.667 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 1.50 Mbit/s  
95th percentile per-packet one-way delay: 2.622 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.83 Mbit/s  
95th percentile per-packet one-way delay: 2.719 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.24 Mbit/s  
95th percentile per-packet one-way delay: 2.910 ms  
Loss rate: 0.27%

Run 2: Report of WebRTC media — Data Link

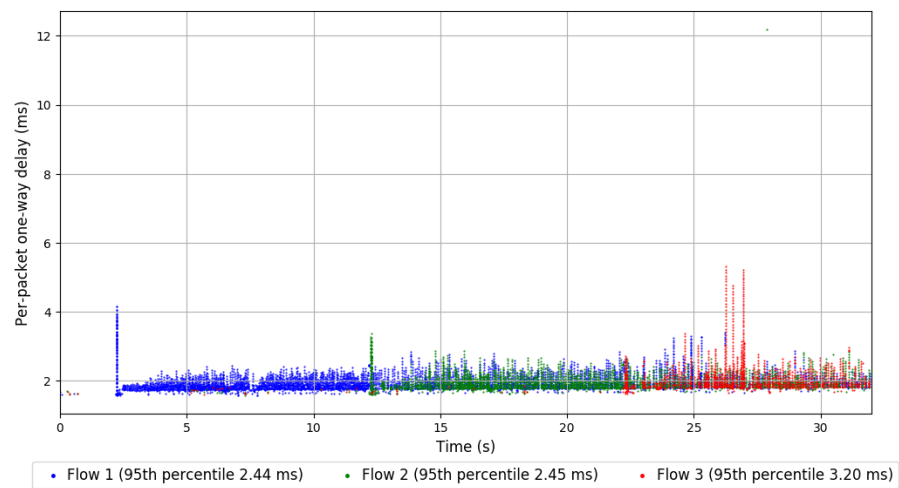
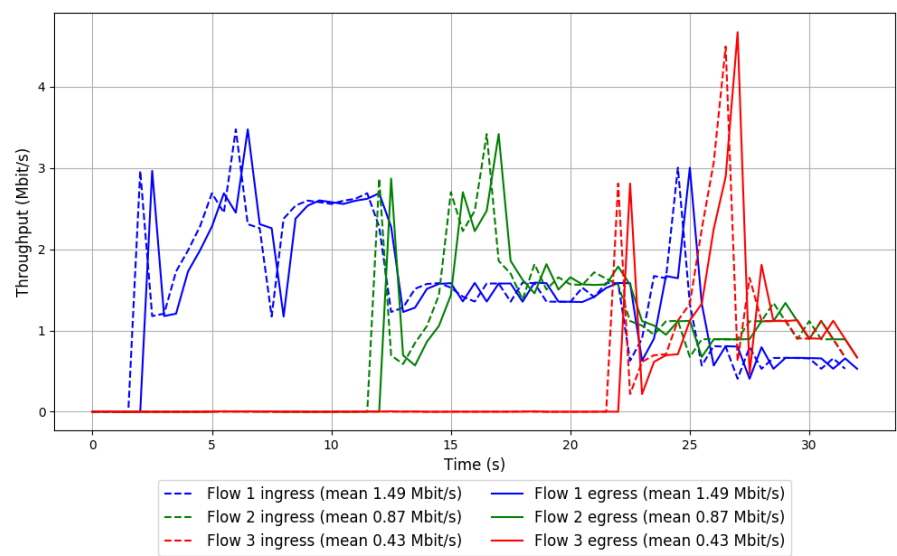


Run 3: Statistics of WebRTC media

Start at: 2019-09-18 23:40:01  
End at: 2019-09-18 23:40:31  
Local clock offset: -10.093 ms  
Remote clock offset: -1.712 ms

# Below is generated by plot.py at 2019-09-19 01:16:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.79 Mbit/s  
95th percentile per-packet one-way delay: 2.530 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.49 Mbit/s  
95th percentile per-packet one-way delay: 2.437 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.87 Mbit/s  
95th percentile per-packet one-way delay: 2.447 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 3.201 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

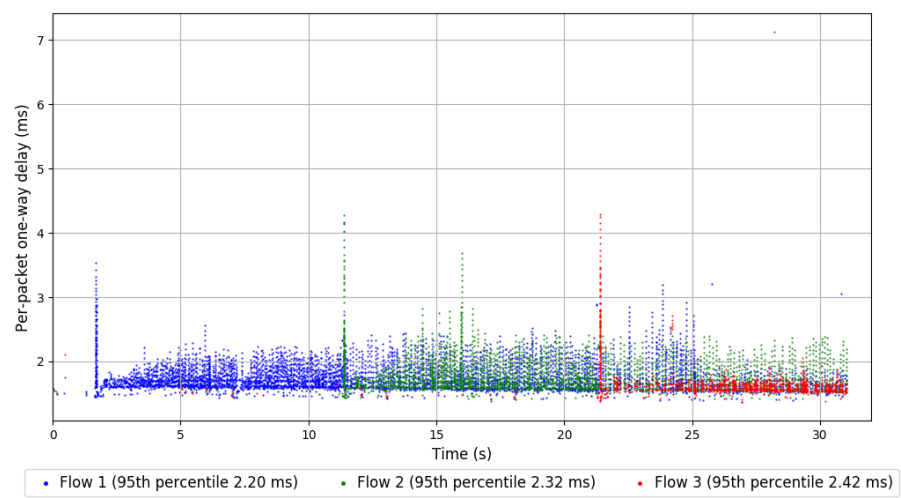
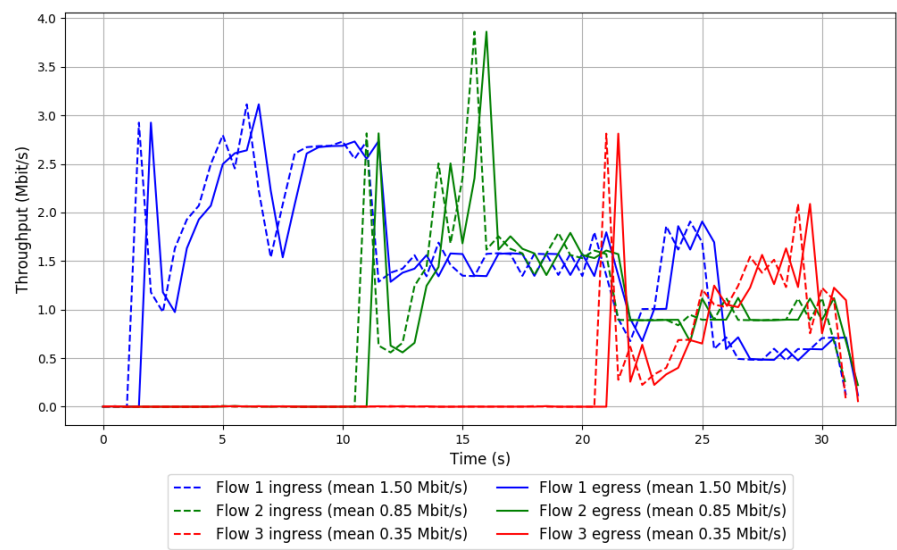


Run 4: Statistics of WebRTC media

Start at: 2019-09-19 00:07:34  
End at: 2019-09-19 00:08:04  
Local clock offset: -9.525 ms  
Remote clock offset: -0.501 ms

# Below is generated by plot.py at 2019-09-19 01:16:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.70 Mbit/s  
95th percentile per-packet one-way delay: 2.253 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.50 Mbit/s  
95th percentile per-packet one-way delay: 2.199 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.85 Mbit/s  
95th percentile per-packet one-way delay: 2.319 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.35 Mbit/s  
95th percentile per-packet one-way delay: 2.422 ms  
Loss rate: 0.01%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-09-19 00:35:08  
End at: 2019-09-19 00:35:38  
Local clock offset: -5.325 ms  
Remote clock offset: -0.366 ms

# Below is generated by plot.py at 2019-09-19 01:16:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.73 Mbit/s  
95th percentile per-packet one-way delay: 3.118 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 1.49 Mbit/s  
95th percentile per-packet one-way delay: 3.045 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.85 Mbit/s  
95th percentile per-packet one-way delay: 3.234 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.39 Mbit/s  
95th percentile per-packet one-way delay: 2.988 ms  
Loss rate: 0.08%

Run 5: Report of WebRTC media — Data Link

