

## Pantheon Report

Generated at 2019-07-12 08:02:15 (UTC).

Data path: AWS California 2 on **ens5** (*local*) → Mexico on **em1** (*remote*).

Repeated the test of 24 congestion control schemes 5 times.

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

NTP offsets were measured against **time.stanford.edu** and have been applied to correct the timestamps in logs.

### System info:

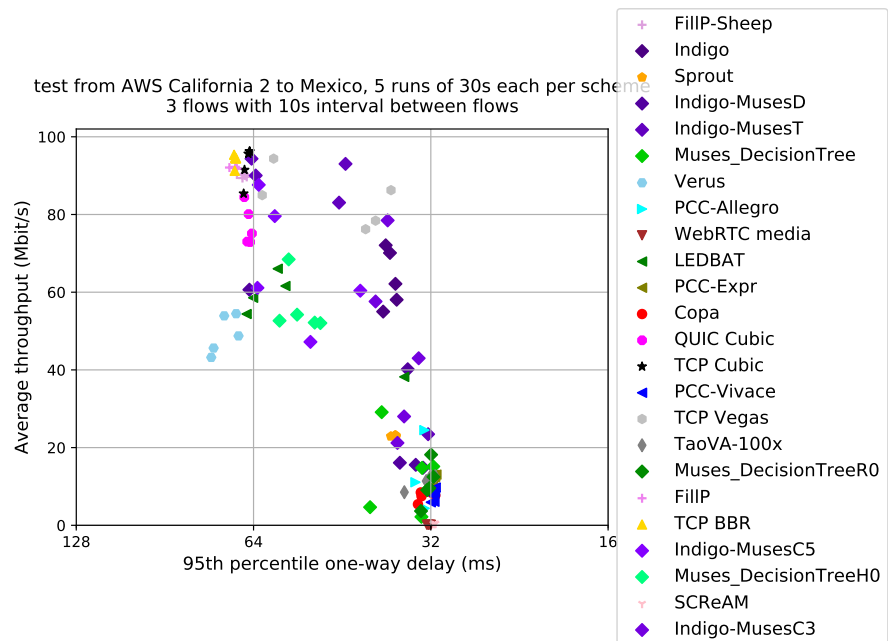
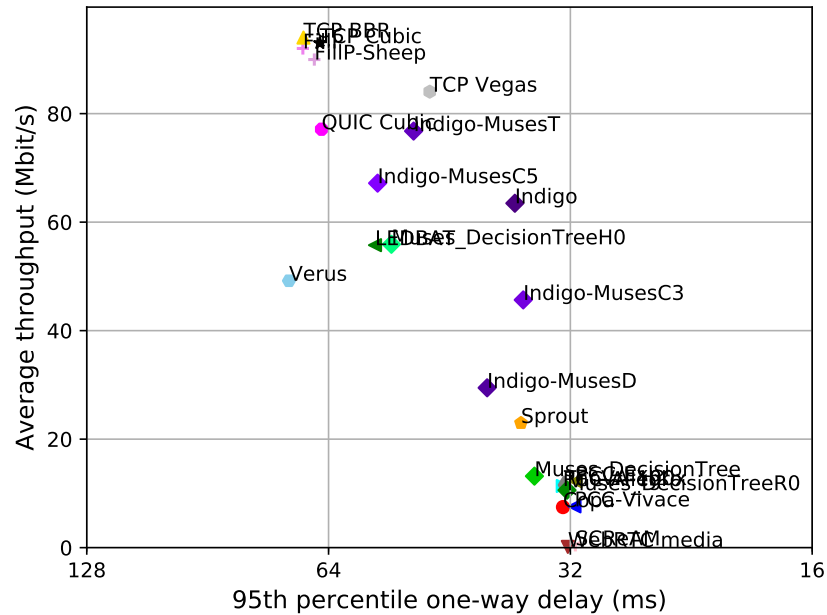
```
Linux 4.15.0-1041-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

```
branch: muses @ 2076e1149a241f3edb4365d686df32342bf9561f
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 8bb93ffff2b107204a92d8b72449fc0c55e15f00
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
```

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

test from AWS California 2 to Mexico, 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	61.21	34.67	29.76	68.51	69.14	69.16	9.24	11.47	11.89
Copa	5	0.00	8.08	6.31	32.11	33.08	32.63	98.14	16.25	12.99
TCP Cubic	5	72.25	23.61	15.14	65.57	66.10	64.53	0.80	0.59	0.65
FillP	5	58.20	41.44	18.98	67.58	70.14	68.32	29.62	47.65	50.63
FillP-Sheep	5	55.87	37.07	28.51	64.95	68.27	67.74	9.21	16.92	17.61
Indigo	5	33.48	26.71	37.55	36.53	38.14	39.20	0.06	0.06	0.09
Indigo-MusesC3	5	23.05	20.57	31.72	35.96	36.36	38.37	0.01	0.00	0.02
Indigo-MusesC5	5	39.47	33.76	19.93	54.19	57.41	53.56	1.05	2.81	2.12
Indigo-MusesD	5	15.83	17.00	8.77	39.99	40.94	41.54	1.76	2.42	3.82
Indigo-MusesT	5	50.32	33.43	16.33	49.04	51.31	50.56	2.15	4.83	3.65
LEDBAT	5	40.27	15.99	14.84	55.92	56.02	46.74	0.14	0.18	0.14
Muses_DecisionTree	5	5.45	5.10	13.37	33.39	33.24	41.15	0.17	0.16	0.47
Muses_DecisionTreeH0	5	35.44	21.49	19.34	54.39	53.15	51.03	2.83	2.86	2.64
Muses_DecisionTreeR0	5	5.69	5.05	4.82	32.27	32.21	32.39	0.00	0.00	0.00
PCC-Allegro	5	4.98	4.63	10.02	32.68	32.66	32.60	0.06	0.02	0.07
PCC-Expr	5	6.99	6.12	3.62	31.50	31.55	31.58	13.13	19.34	28.51
QUIC Cubic	5	53.81	24.39	21.53	64.86	65.59	66.33	3.07	1.03	1.08
SCReAM	5	0.21	0.21	0.22	31.51	31.53	31.45	0.00	0.00	0.00
Sprout	5	11.60	11.49	11.30	36.74	36.88	36.99	0.00	0.00	0.00
TaoVA-100x	5	5.23	7.45	4.07	32.17	32.69	36.31	75.82	76.94	74.09
TCP Vegas	5	63.68	16.76	27.67	44.16	40.74	44.30	0.28	0.16	0.37
Verus	5	30.95	22.92	11.00	72.34	69.55	58.72	59.56	41.70	27.37
PCC-Vivace	5	3.25	4.84	3.42	31.55	31.58	31.58	0.01	0.01	0.00
WebRTC media	5	0.05	0.05	0.05	32.15	32.21	32.27	0.00	0.00	0.01

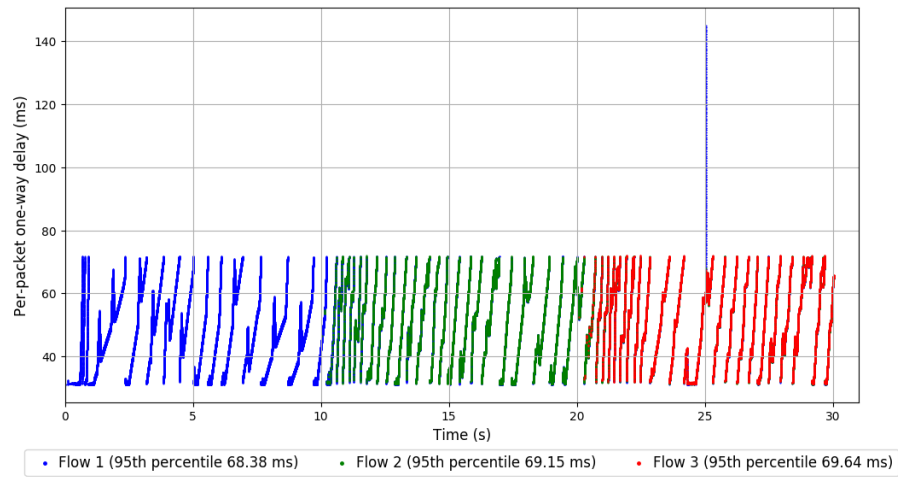
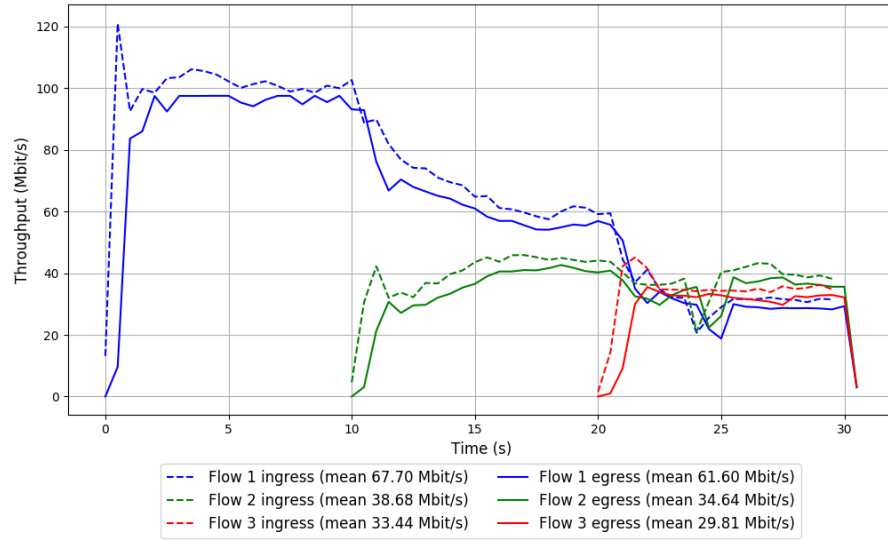


Run 1: Statistics of TCP BBR

Start at: 2019-07-12 04:30:43  
End at: 2019-07-12 04:31:13  
Local clock offset: -0.581 ms  
Remote clock offset: -7.685 ms

# Below is generated by plot.py at 2019-07-12 07:53:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.58 Mbit/s  
95th percentile per-packet one-way delay: 68.776 ms  
Loss rate: 9.45%  
-- Flow 1:  
Average throughput: 61.60 Mbit/s  
95th percentile per-packet one-way delay: 68.381 ms  
Loss rate: 8.90%  
-- Flow 2:  
Average throughput: 34.64 Mbit/s  
95th percentile per-packet one-way delay: 69.146 ms  
Loss rate: 10.35%  
-- Flow 3:  
Average throughput: 29.81 Mbit/s  
95th percentile per-packet one-way delay: 69.639 ms  
Loss rate: 10.75%

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

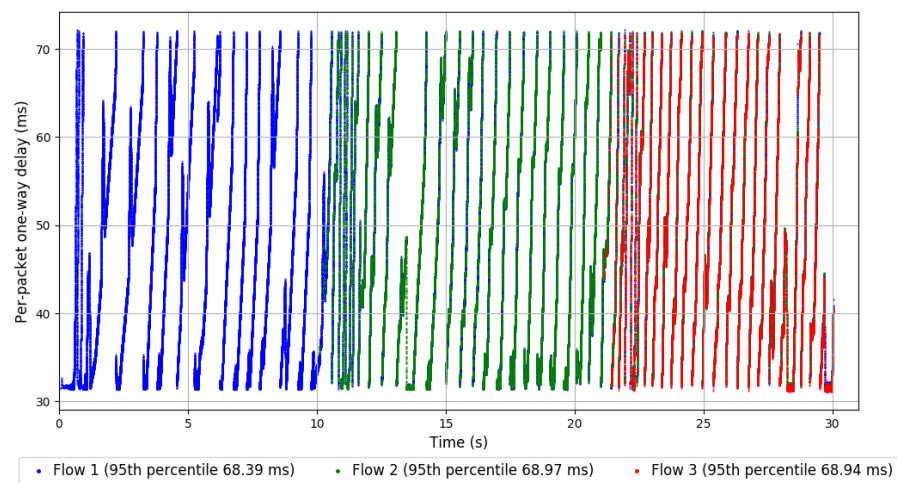
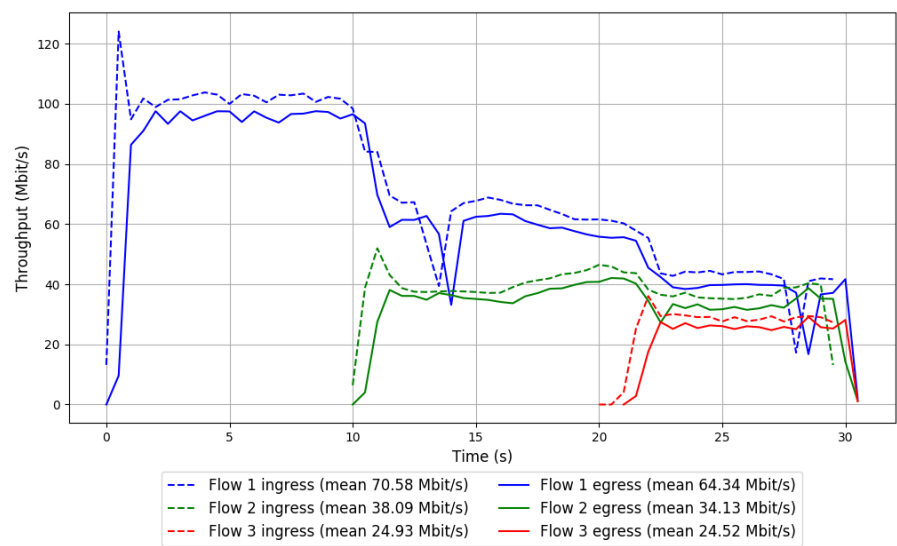


Run 2: Statistics of TCP BBR

Start at: 2019-07-12 05:19:16  
End at: 2019-07-12 05:19:46  
Local clock offset: -4.248 ms  
Remote clock offset: -9.207 ms

# Below is generated by plot.py at 2019-07-12 07:53:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.40 Mbit/s  
95th percentile per-packet one-way delay: 68.618 ms  
Loss rate: 9.41%  
-- Flow 1:  
Average throughput: 64.34 Mbit/s  
95th percentile per-packet one-way delay: 68.391 ms  
Loss rate: 8.81%  
-- Flow 2:  
Average throughput: 34.13 Mbit/s  
95th percentile per-packet one-way delay: 68.971 ms  
Loss rate: 10.38%  
-- Flow 3:  
Average throughput: 24.52 Mbit/s  
95th percentile per-packet one-way delay: 68.945 ms  
Loss rate: 11.55%

Run 2: Report of TCP BBR — Data Link

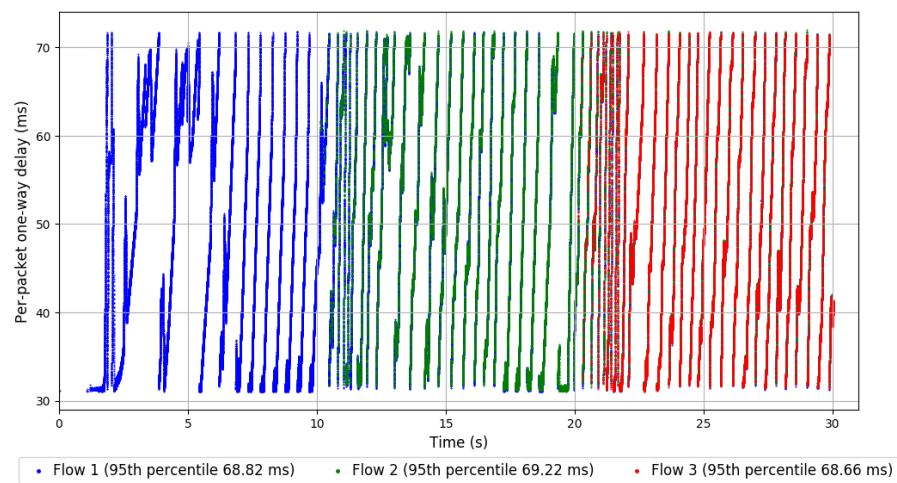
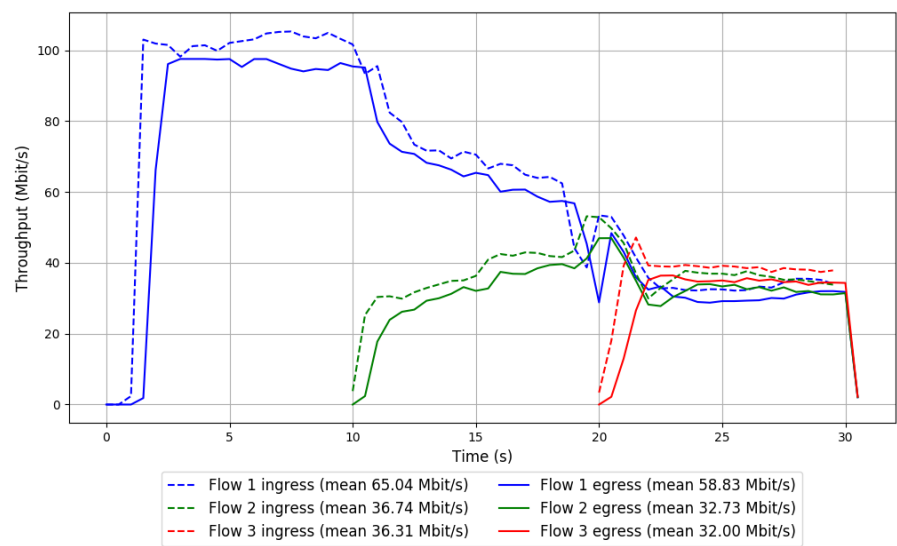


Run 3: Statistics of TCP BBR

Start at: 2019-07-12 06:05:13  
End at: 2019-07-12 06:05:43  
Local clock offset: -2.84 ms  
Remote clock offset: -8.116 ms

# Below is generated by plot.py at 2019-07-12 07:53:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.27 Mbit/s  
95th percentile per-packet one-way delay: 68.893 ms  
Loss rate: 10.14%  
-- Flow 1:  
Average throughput: 58.83 Mbit/s  
95th percentile per-packet one-way delay: 68.817 ms  
Loss rate: 9.52%  
-- Flow 2:  
Average throughput: 32.73 Mbit/s  
95th percentile per-packet one-way delay: 69.216 ms  
Loss rate: 10.92%  
-- Flow 3:  
Average throughput: 32.00 Mbit/s  
95th percentile per-packet one-way delay: 68.664 ms  
Loss rate: 11.91%

Run 3: Report of TCP BBR — Data Link

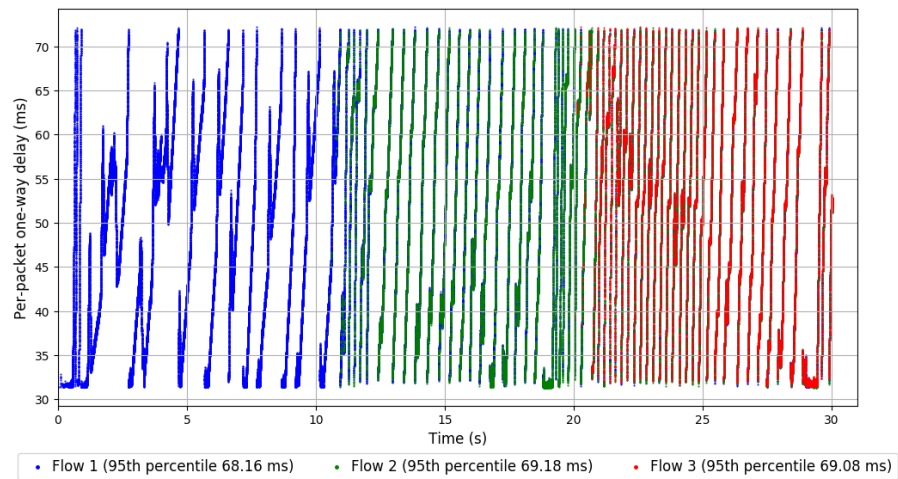
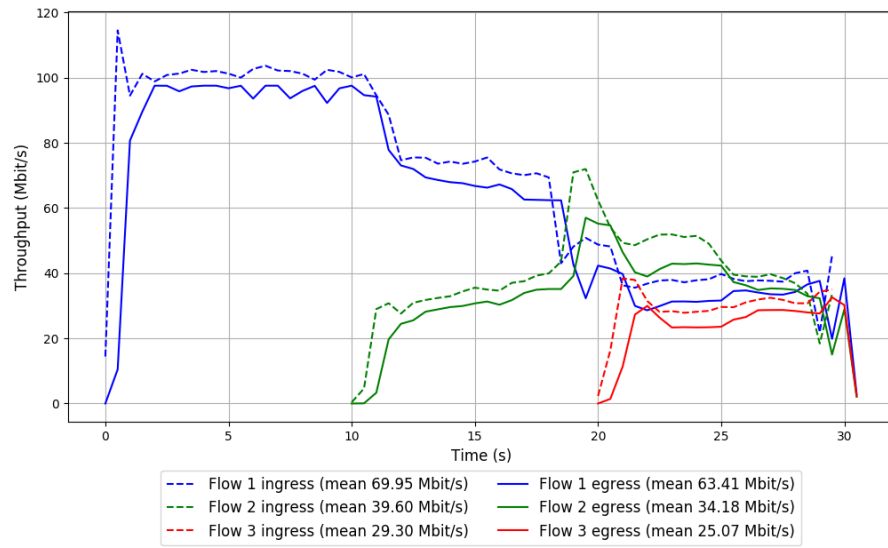


Run 4: Statistics of TCP BBR

Start at: 2019-07-12 06:48:23  
End at: 2019-07-12 06:48:53  
Local clock offset: 0.416 ms  
Remote clock offset: -7.361 ms

# Below is generated by plot.py at 2019-07-12 07:53:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.49 Mbit/s  
95th percentile per-packet one-way delay: 68.535 ms  
Loss rate: 10.87%  
-- Flow 1:  
Average throughput: 63.41 Mbit/s  
95th percentile per-packet one-way delay: 68.157 ms  
Loss rate: 9.29%  
-- Flow 2:  
Average throughput: 34.18 Mbit/s  
95th percentile per-packet one-way delay: 69.183 ms  
Loss rate: 13.76%  
-- Flow 3:  
Average throughput: 25.07 Mbit/s  
95th percentile per-packet one-way delay: 69.083 ms  
Loss rate: 14.32%

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



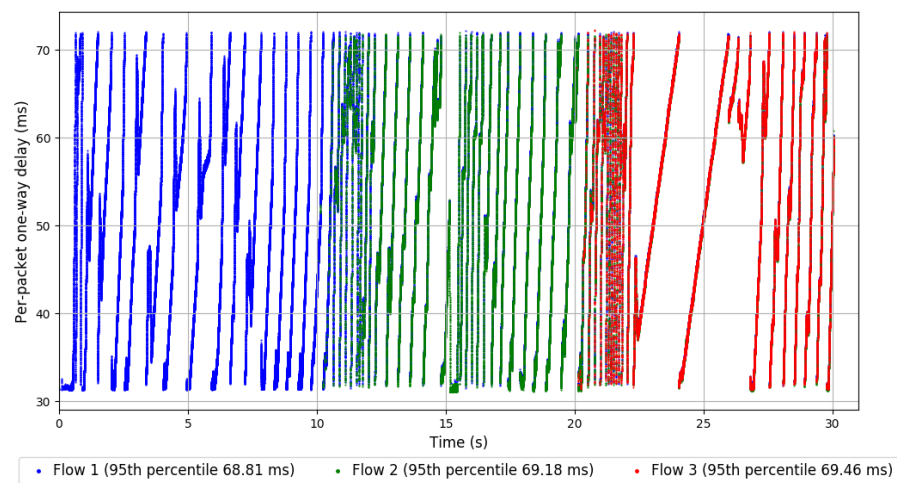
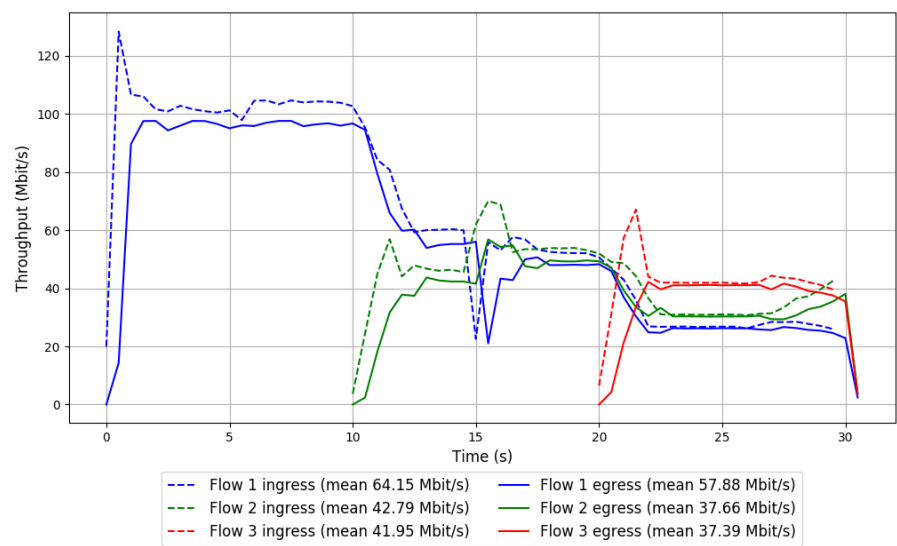


Run 5: Statistics of TCP BBR

Start at: 2019-07-12 07:28:21  
End at: 2019-07-12 07:28:51  
Local clock offset: -1.618 ms  
Remote clock offset: -7.242 ms

# Below is generated by plot.py at 2019-07-12 07:53:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.38 Mbit/s  
95th percentile per-packet one-way delay: 69.050 ms  
Loss rate: 10.46%  
-- Flow 1:  
Average throughput: 57.88 Mbit/s  
95th percentile per-packet one-way delay: 68.813 ms  
Loss rate: 9.70%  
-- Flow 2:  
Average throughput: 37.66 Mbit/s  
95th percentile per-packet one-way delay: 69.178 ms  
Loss rate: 11.92%  
-- Flow 3:  
Average throughput: 37.39 Mbit/s  
95th percentile per-packet one-way delay: 69.463 ms  
Loss rate: 10.94%

Run 5: Report of TCP BBR — Data Link

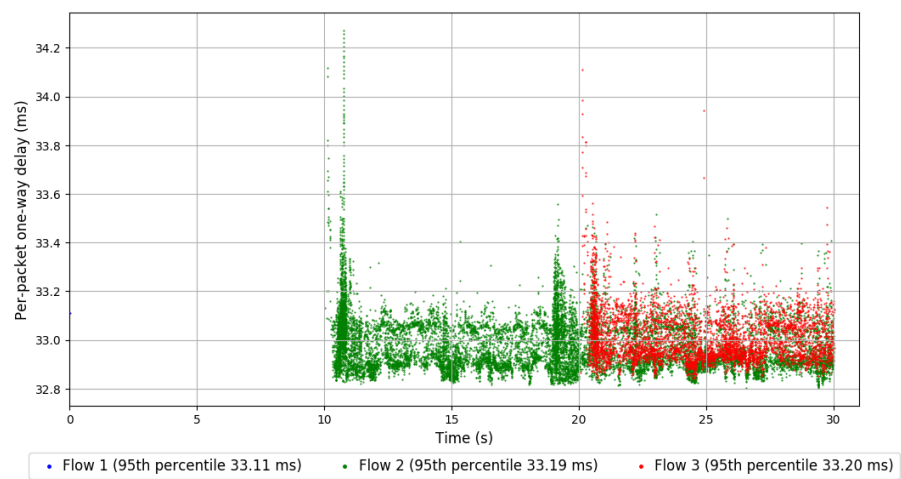
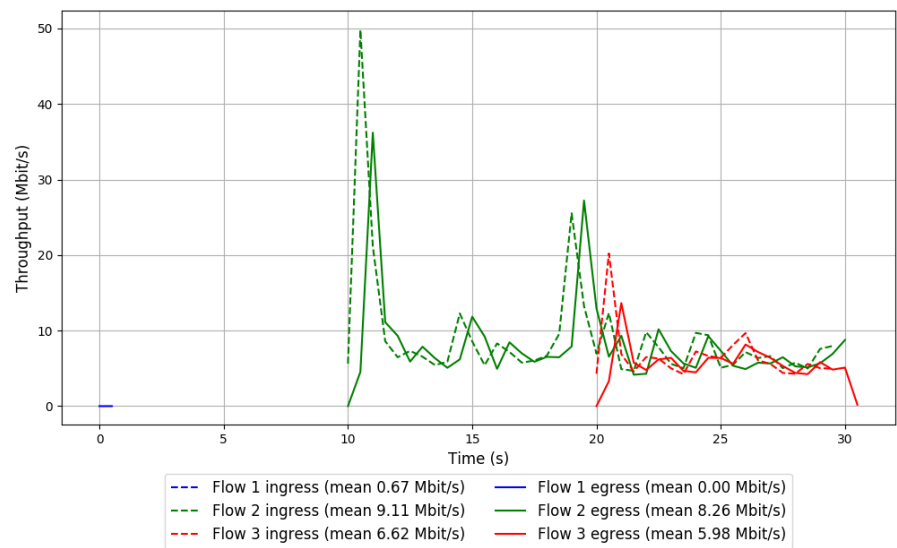


Run 1: Statistics of Copa

Start at: 2019-07-12 04:58:45  
End at: 2019-07-12 04:59:15  
Local clock offset: -2.764 ms  
Remote clock offset: -6.943 ms

# Below is generated by plot.py at 2019-07-12 07:53:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 7.49 Mbit/s  
95th percentile per-packet one-way delay: 33.188 ms  
Loss rate: 9.38%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 33.110 ms  
Loss rate: 97.92%  
-- Flow 2:  
Average throughput: 8.26 Mbit/s  
95th percentile per-packet one-way delay: 33.185 ms  
Loss rate: 9.26%  
-- Flow 3:  
Average throughput: 5.98 Mbit/s  
95th percentile per-packet one-way delay: 33.195 ms  
Loss rate: 9.65%

Run 1: Report of Copa — Data Link

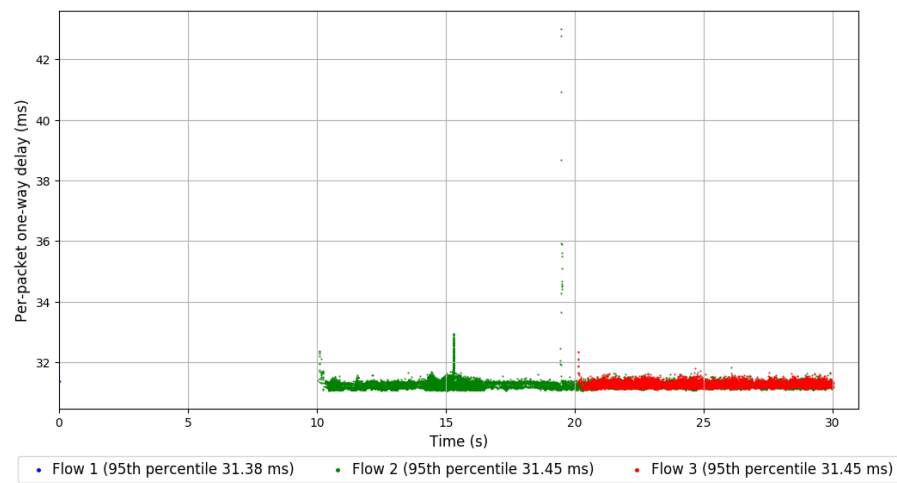
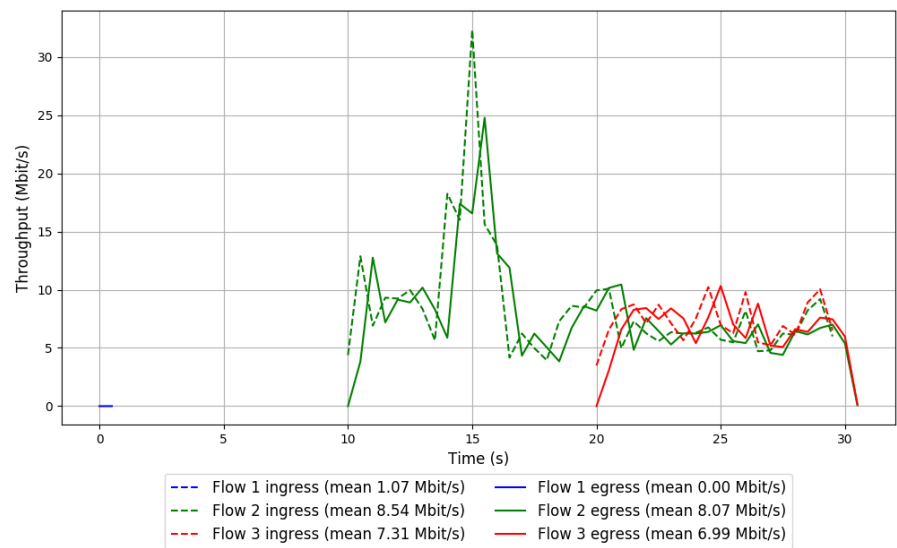


Run 2: Statistics of Copa

Start at: 2019-07-12 05:45:23  
End at: 2019-07-12 05:45:53  
Local clock offset: -3.08 ms  
Remote clock offset: -8.804 ms

# Below is generated by plot.py at 2019-07-12 07:53:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 7.69 Mbit/s  
95th percentile per-packet one-way delay: 31.446 ms  
Loss rate: 5.17%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 31.383 ms  
Loss rate: 98.60%  
-- Flow 2:  
Average throughput: 8.07 Mbit/s  
95th percentile per-packet one-way delay: 31.445 ms  
Loss rate: 5.46%  
-- Flow 3:  
Average throughput: 6.99 Mbit/s  
95th percentile per-packet one-way delay: 31.450 ms  
Loss rate: 4.38%

Run 2: Report of Copa — Data Link

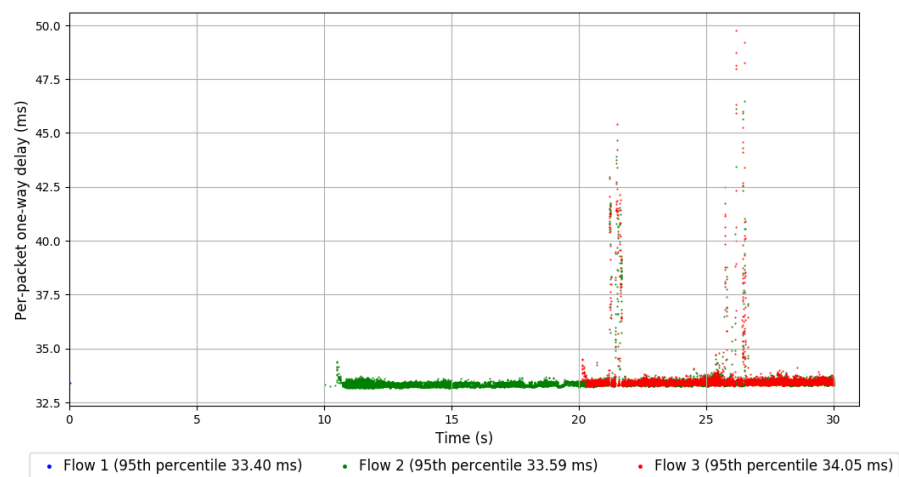
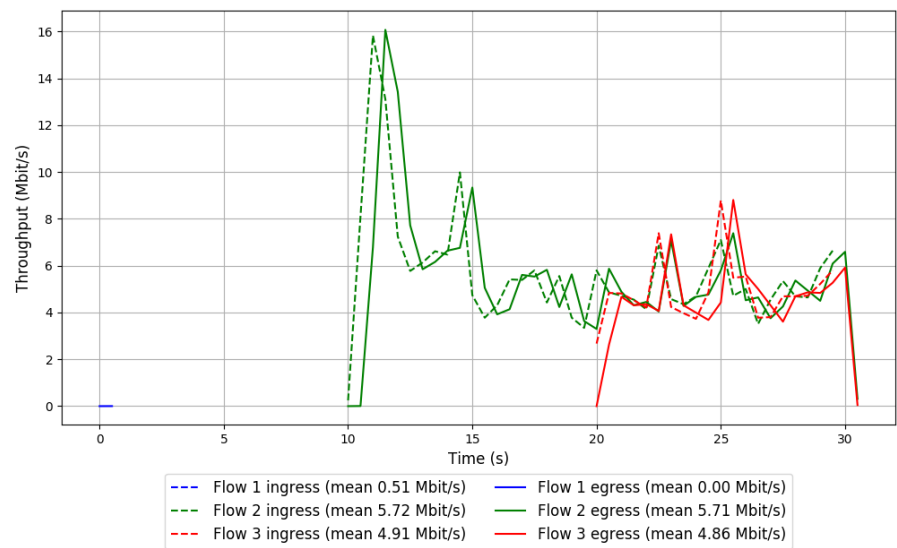


Run 3: Statistics of Copa

Start at: 2019-07-12 06:29:40  
End at: 2019-07-12 06:30:10  
Local clock offset: -2.53 ms  
Remote clock offset: -5.163 ms

```
# Below is generated by plot.py at 2019-07-12 07:53:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.42 Mbit/s
95th percentile per-packet one-way delay: 33.653 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 33.395 ms
Loss rate: 97.24%
-- Flow 2:
Average throughput: 5.71 Mbit/s
95th percentile per-packet one-way delay: 33.595 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 4.86 Mbit/s
95th percentile per-packet one-way delay: 34.054 ms
Loss rate: 1.01%
```

Run 3: Report of Copa — Data Link



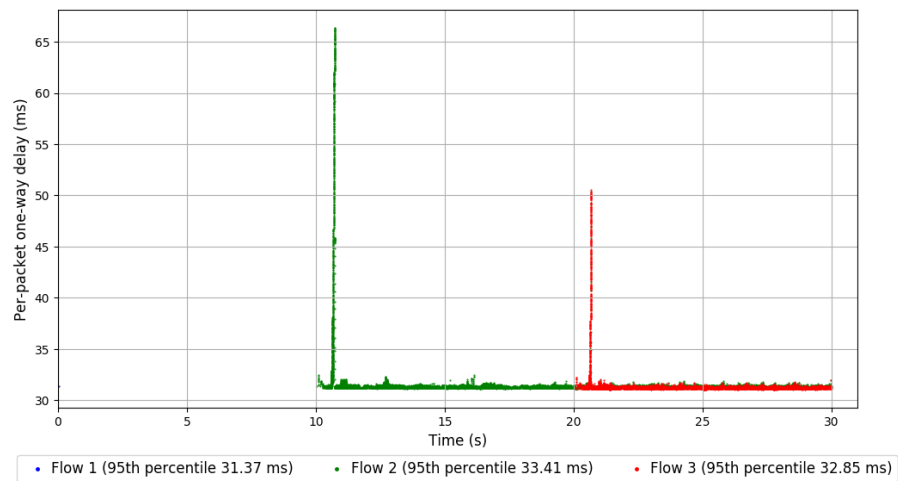
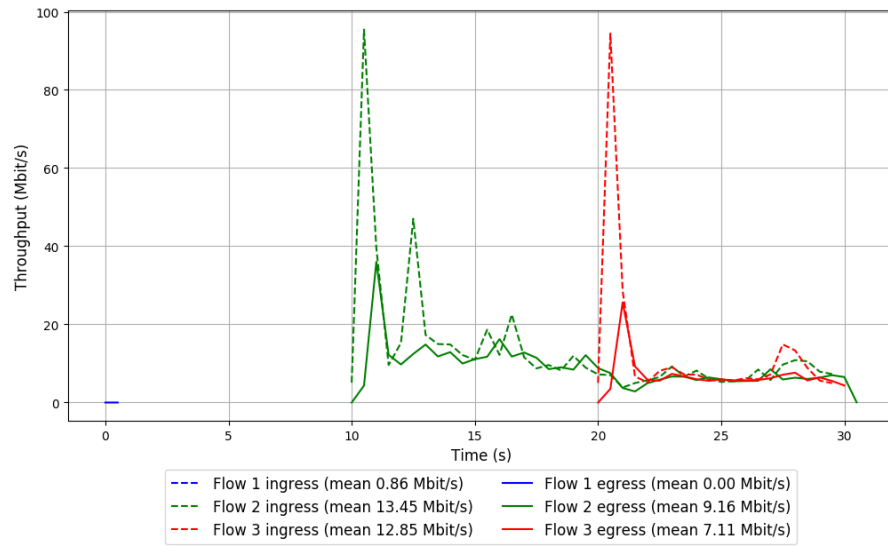


Run 4: Statistics of Copa

Start at: 2019-07-12 07:10:48  
End at: 2019-07-12 07:11:18  
Local clock offset: -0.996 ms  
Remote clock offset: -7.221 ms

```
# Below is generated by plot.py at 2019-07-12 07:53:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.46 Mbit/s
95th percentile per-packet one-way delay: 33.281 ms
Loss rate: 36.02%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 31.374 ms
Loss rate: 98.33%
-- Flow 2:
Average throughput: 9.16 Mbit/s
95th percentile per-packet one-way delay: 33.415 ms
Loss rate: 31.88%
-- Flow 3:
Average throughput: 7.11 Mbit/s
95th percentile per-packet one-way delay: 32.846 ms
Loss rate: 44.69%
```

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

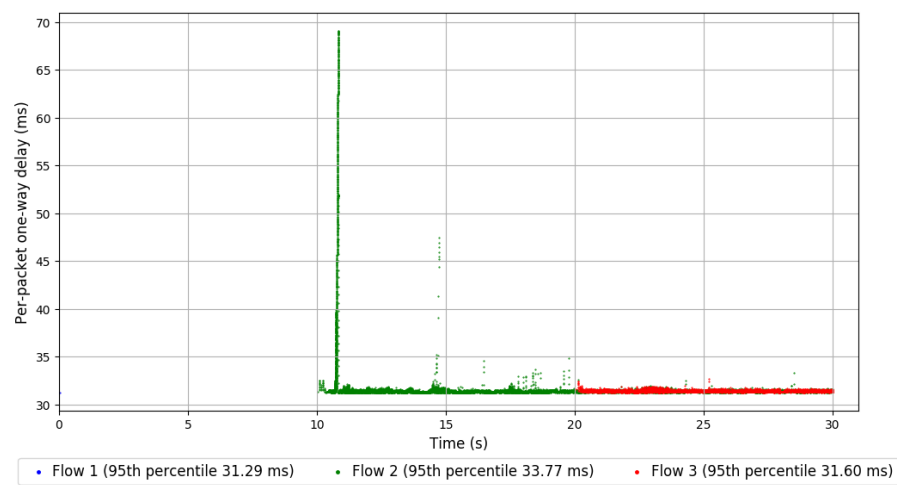
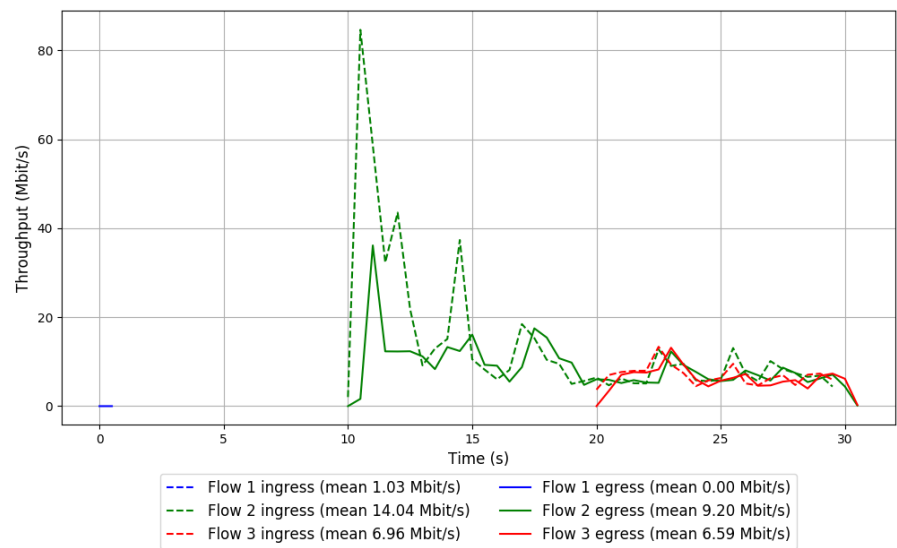


Run 5: Statistics of Copa

Start at: 2019-07-12 07:50:09  
End at: 2019-07-12 07:50:39  
Local clock offset: 0.33 ms  
Remote clock offset: -7.283 ms

```
# Below is generated by plot.py at 2019-07-12 07:53:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.32 Mbit/s
95th percentile per-packet one-way delay: 31.857 ms
Loss rate: 28.69%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 31.290 ms
Loss rate: 98.60%
-- Flow 2:
Average throughput: 9.20 Mbit/s
95th percentile per-packet one-way delay: 33.775 ms
Loss rate: 34.47%
-- Flow 3:
Average throughput: 6.59 Mbit/s
95th percentile per-packet one-way delay: 31.604 ms
Loss rate: 5.24%
```

Run 5: Report of Copa — Data Link

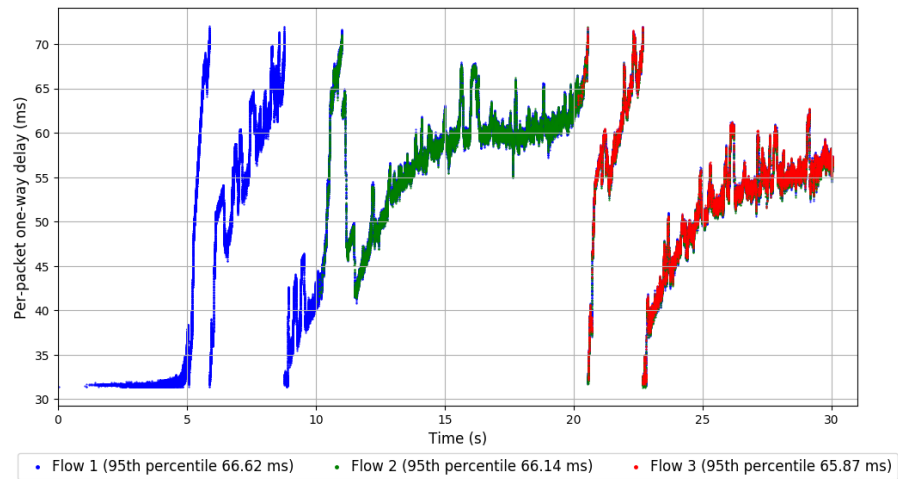
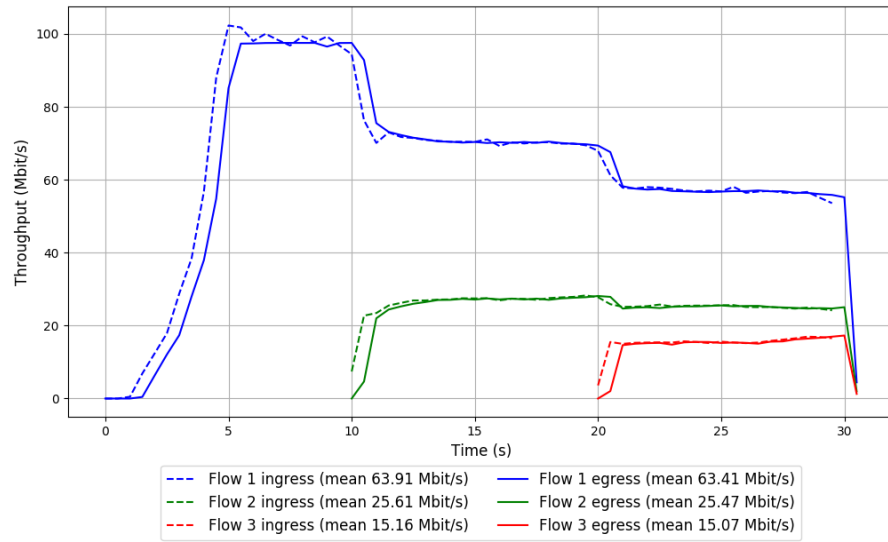


Run 1: Statistics of TCP Cubic

Start at: 2019-07-12 04:22:21  
End at: 2019-07-12 04:22:51  
Local clock offset: -0.269 ms  
Remote clock offset: -7.307 ms

# Below is generated by plot.py at 2019-07-12 07:53:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.38 Mbit/s  
95th percentile per-packet one-way delay: 66.528 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 63.41 Mbit/s  
95th percentile per-packet one-way delay: 66.621 ms  
Loss rate: 0.70%  
-- Flow 2:  
Average throughput: 25.47 Mbit/s  
95th percentile per-packet one-way delay: 66.140 ms  
Loss rate: 0.43%  
-- Flow 3:  
Average throughput: 15.07 Mbit/s  
95th percentile per-packet one-way delay: 65.869 ms  
Loss rate: 0.64%

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

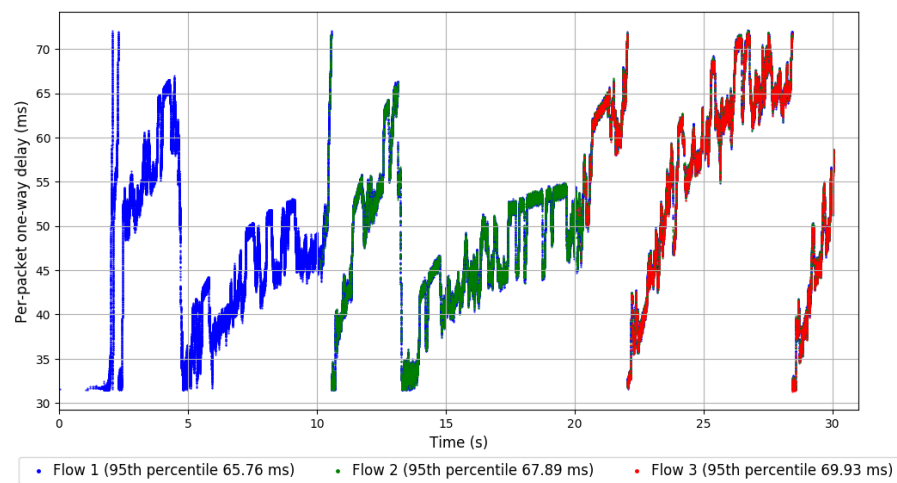
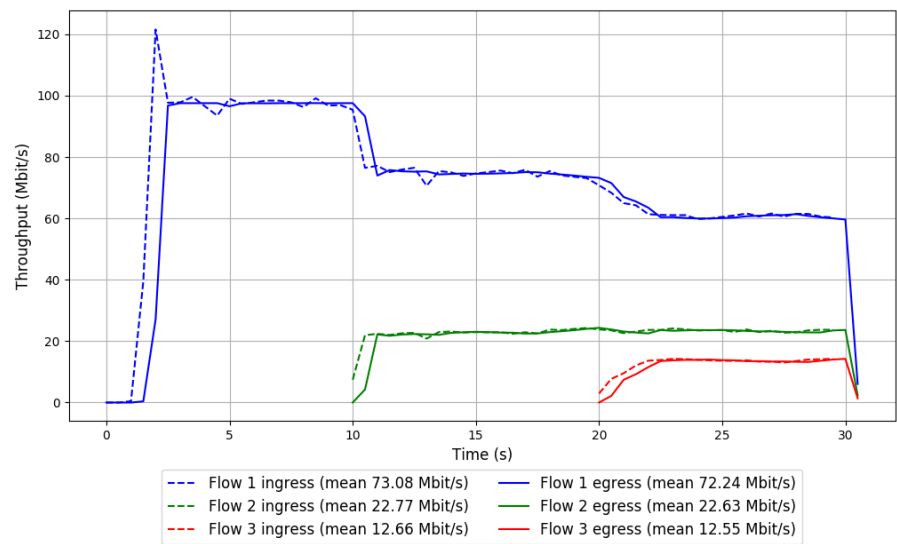


Run 2: Statistics of TCP Cubic

Start at: 2019-07-12 05:11:22  
End at: 2019-07-12 05:11:52  
Local clock offset: -3.797 ms  
Remote clock offset: -9.008 ms

# Below is generated by plot.py at 2019-07-12 07:53:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.49 Mbit/s  
95th percentile per-packet one-way delay: 66.302 ms  
Loss rate: 0.95%  
-- Flow 1:  
Average throughput: 72.24 Mbit/s  
95th percentile per-packet one-way delay: 65.756 ms  
Loss rate: 1.05%  
-- Flow 2:  
Average throughput: 22.63 Mbit/s  
95th percentile per-packet one-way delay: 67.888 ms  
Loss rate: 0.52%  
-- Flow 3:  
Average throughput: 12.55 Mbit/s  
95th percentile per-packet one-way delay: 69.929 ms  
Loss rate: 0.80%

Run 2: Report of TCP Cubic — Data Link



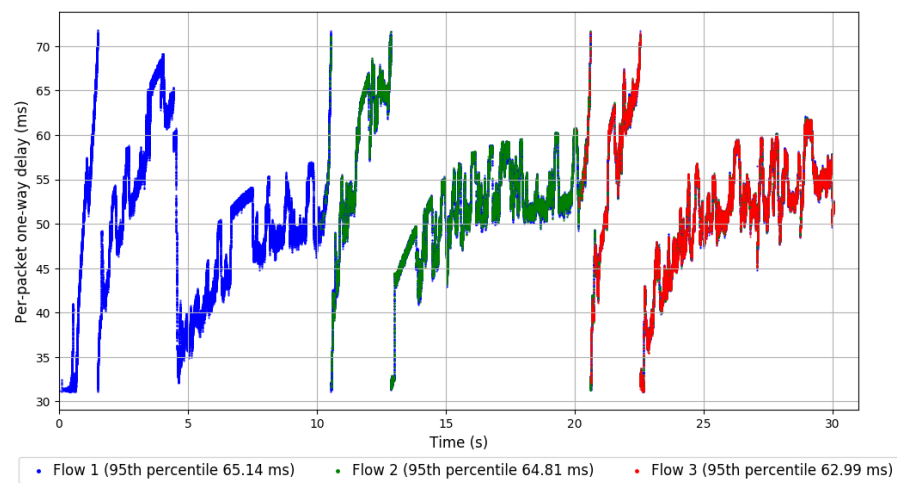
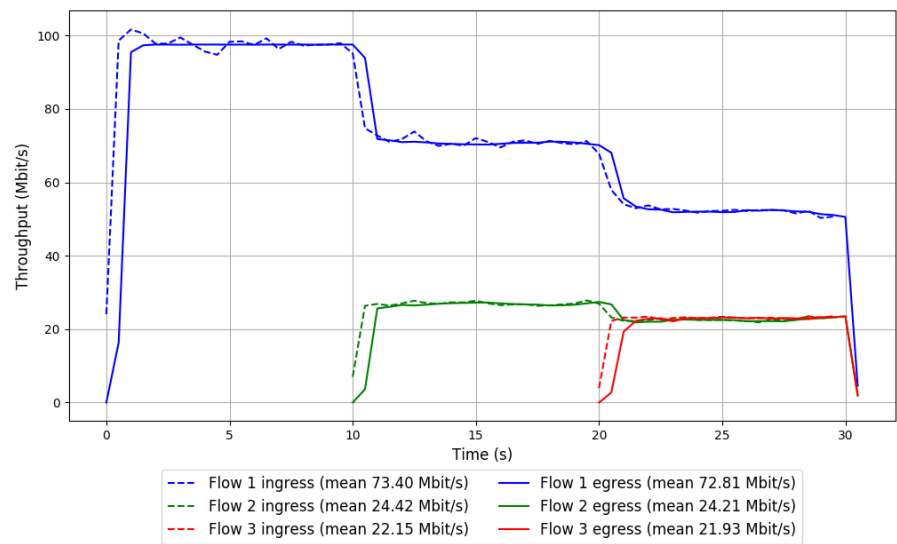


Run 3: Statistics of TCP Cubic

Start at: 2019-07-12 05:58:23  
End at: 2019-07-12 05:58:53  
Local clock offset: -3.008 ms  
Remote clock offset: -8.423 ms

# Below is generated by plot.py at 2019-07-12 07:53:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.22 Mbit/s  
95th percentile per-packet one-way delay: 64.958 ms  
Loss rate: 0.78%  
-- Flow 1:  
Average throughput: 72.81 Mbit/s  
95th percentile per-packet one-way delay: 65.142 ms  
Loss rate: 0.73%  
-- Flow 2:  
Average throughput: 24.21 Mbit/s  
95th percentile per-packet one-way delay: 64.809 ms  
Loss rate: 0.83%  
-- Flow 3:  
Average throughput: 21.93 Mbit/s  
95th percentile per-packet one-way delay: 62.995 ms  
Loss rate: 1.10%

Run 3: Report of TCP Cubic — Data Link

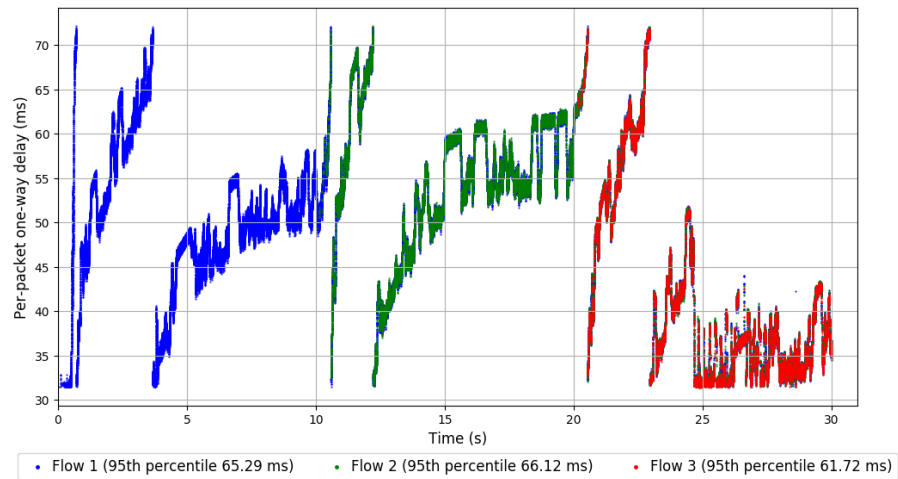
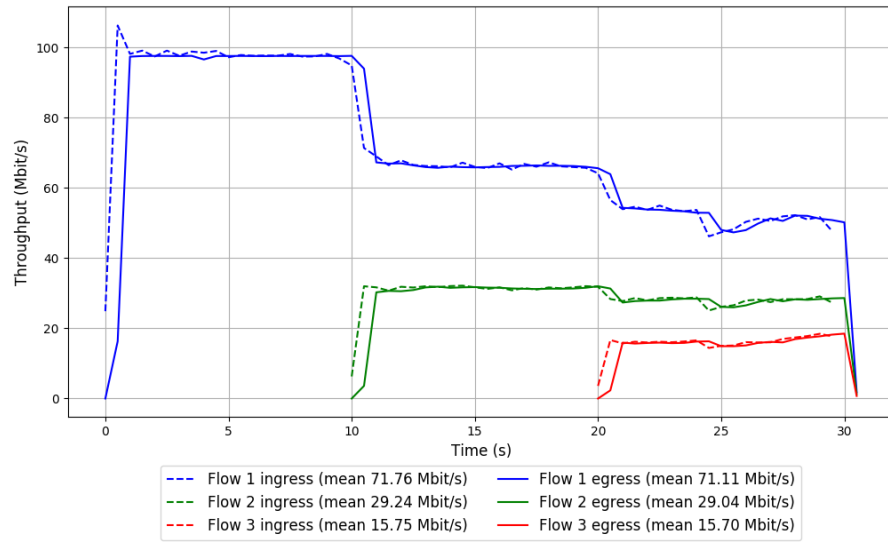


Run 4: Statistics of TCP Cubic

Start at: 2019-07-12 06:42:22  
End at: 2019-07-12 06:42:52  
Local clock offset: -0.138 ms  
Remote clock offset: -7.251 ms

# Below is generated by plot.py at 2019-07-12 07:54:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.64 Mbit/s  
95th percentile per-packet one-way delay: 65.326 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 71.11 Mbit/s  
95th percentile per-packet one-way delay: 65.290 ms  
Loss rate: 0.89%  
-- Flow 2:  
Average throughput: 29.04 Mbit/s  
95th percentile per-packet one-way delay: 66.124 ms  
Loss rate: 0.74%  
-- Flow 3:  
Average throughput: 15.70 Mbit/s  
95th percentile per-packet one-way delay: 61.722 ms  
Loss rate: 0.60%

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

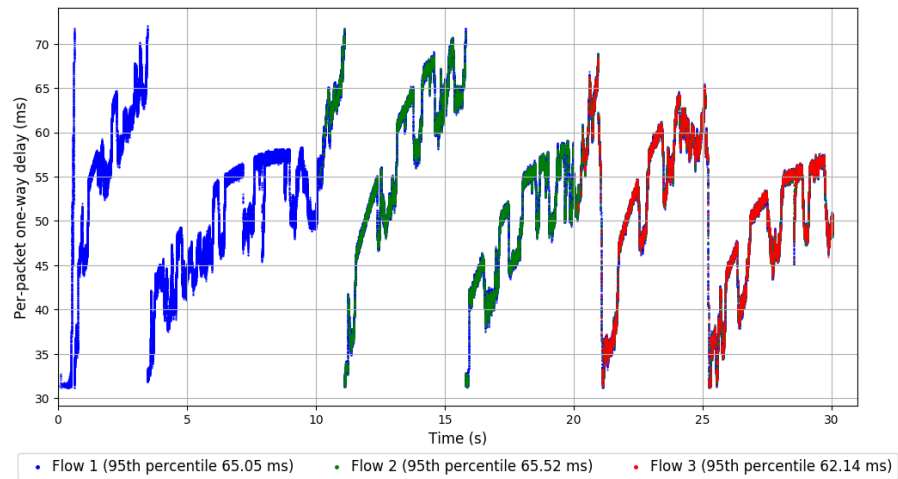
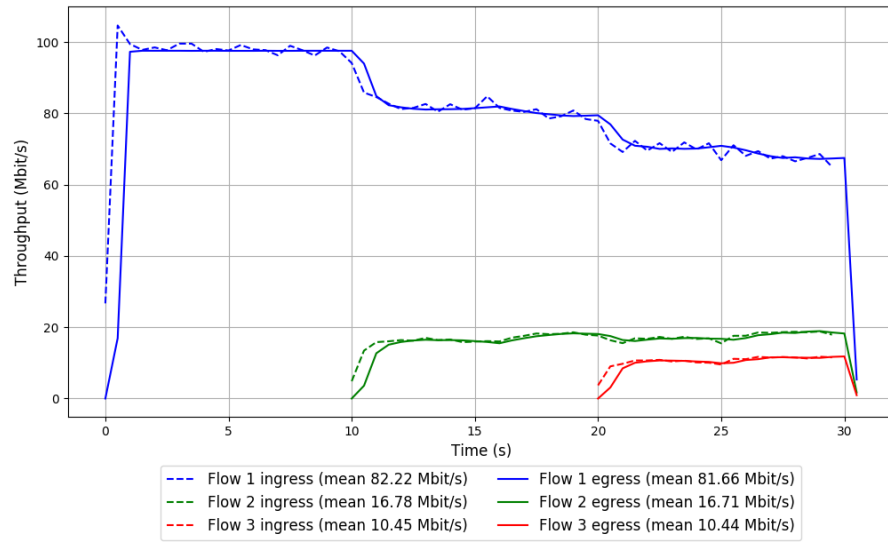


Run 5: Statistics of TCP Cubic

Start at: 2019-07-12 07:22:33  
End at: 2019-07-12 07:23:03  
Local clock offset: -1.532 ms  
Remote clock offset: -7.225 ms

# Below is generated by plot.py at 2019-07-12 07:54:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.26 Mbit/s  
95th percentile per-packet one-way delay: 65.015 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 81.66 Mbit/s  
95th percentile per-packet one-way delay: 65.048 ms  
Loss rate: 0.62%  
-- Flow 2:  
Average throughput: 16.71 Mbit/s  
95th percentile per-packet one-way delay: 65.520 ms  
Loss rate: 0.44%  
-- Flow 3:  
Average throughput: 10.44 Mbit/s  
95th percentile per-packet one-way delay: 62.136 ms  
Loss rate: 0.12%

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

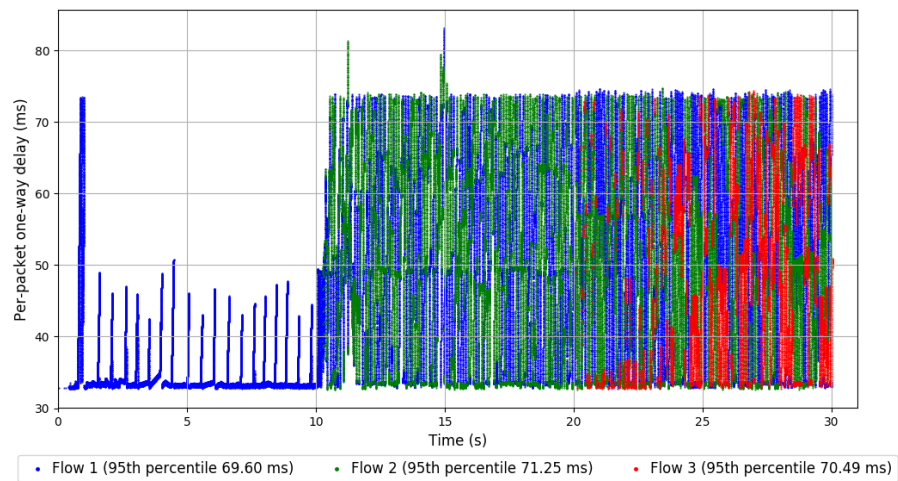
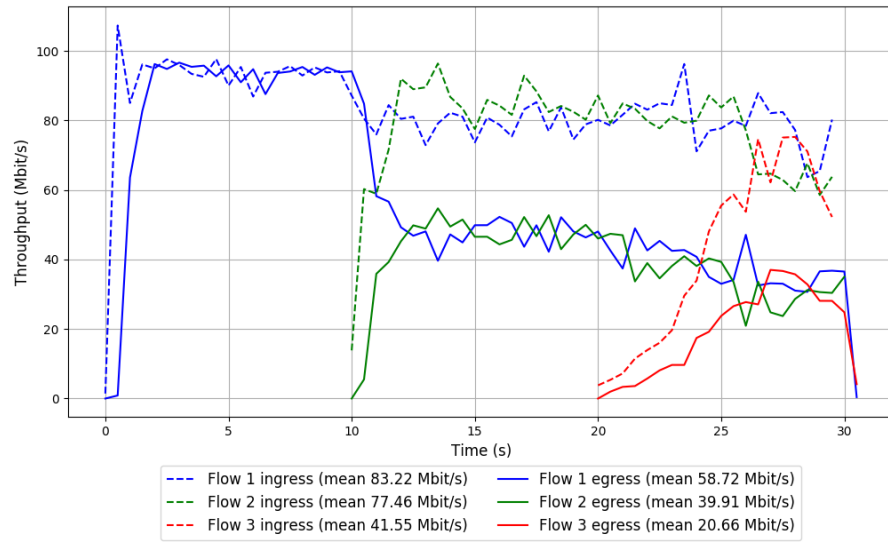


Run 1: Statistics of FillP

Start at: 2019-07-12 04:46:20  
End at: 2019-07-12 04:46:50  
Local clock offset: -2.214 ms  
Remote clock offset: -6.731 ms

# Below is generated by plot.py at 2019-07-12 07:55:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.08 Mbit/s  
95th percentile per-packet one-way delay: 70.326 ms  
Loss rate: 37.99%  
-- Flow 1:  
Average throughput: 58.72 Mbit/s  
95th percentile per-packet one-way delay: 69.603 ms  
Loss rate: 29.44%  
-- Flow 2:  
Average throughput: 39.91 Mbit/s  
95th percentile per-packet one-way delay: 71.255 ms  
Loss rate: 48.49%  
-- Flow 3:  
Average throughput: 20.66 Mbit/s  
95th percentile per-packet one-way delay: 70.492 ms  
Loss rate: 50.27%

# Run 1: Report of FillP — Data Link





Run 2: Statistics of FillP

Start at: 2019-07-12 05:34:08

End at: 2019-07-12 05:34:38

Local clock offset: -3.816 ms

Remote clock offset: -8.85 ms

# Below is generated by plot.py at 2019-07-12 07:55:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.97 Mbit/s

95th percentile per-packet one-way delay: 68.663 ms

Loss rate: 39.95%

-- Flow 1:

Average throughput: 56.15 Mbit/s

95th percentile per-packet one-way delay: 66.817 ms

Loss rate: 30.81%

-- Flow 2:

Average throughput: 42.72 Mbit/s

95th percentile per-packet one-way delay: 69.727 ms

Loss rate: 48.32%

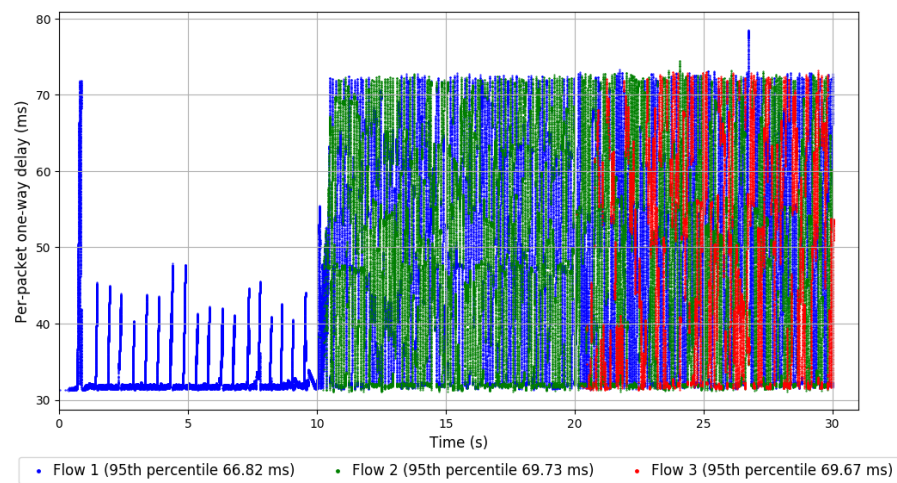
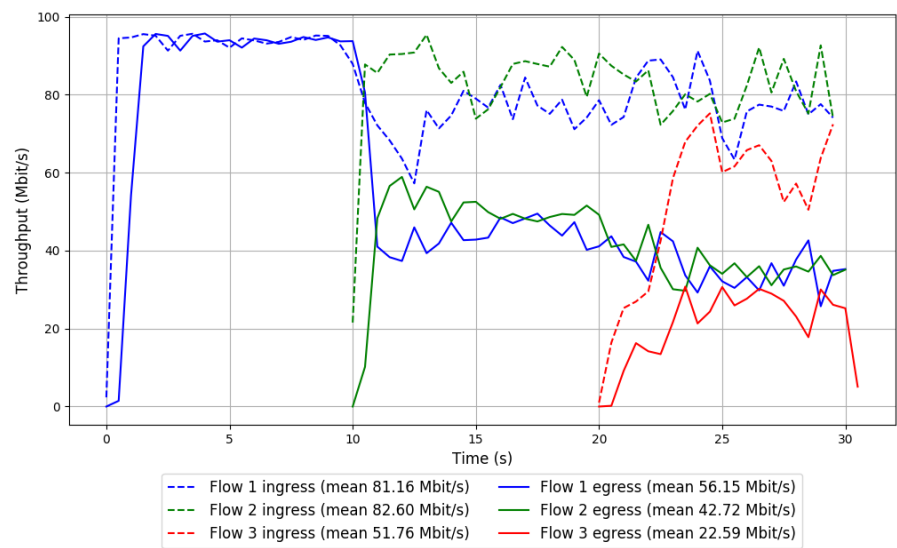
-- Flow 3:

Average throughput: 22.59 Mbit/s

95th percentile per-packet one-way delay: 69.672 ms

Loss rate: 56.36%

Run 2: Report of FillP — Data Link

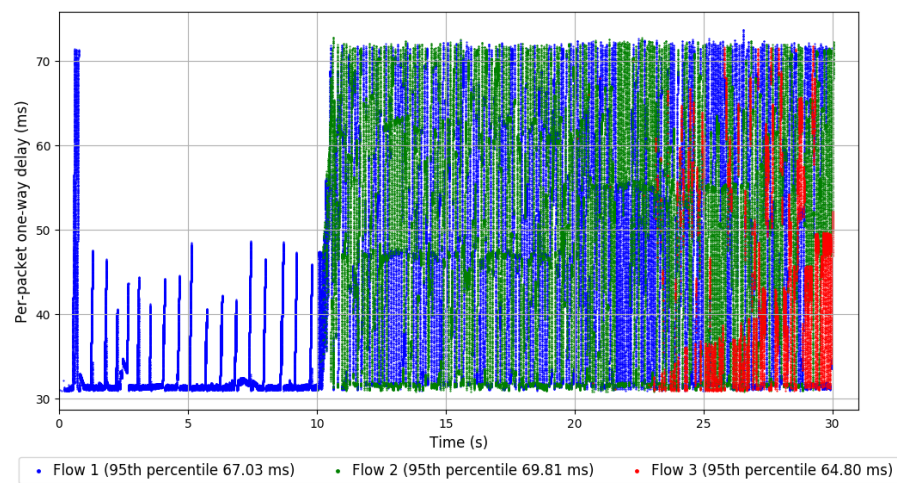
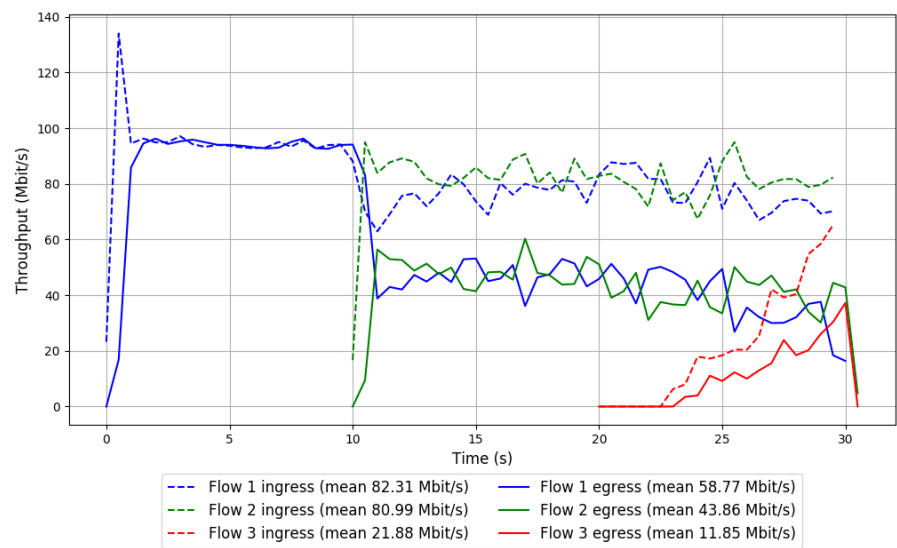


Run 3: Statistics of FillP

Start at: 2019-07-12 06:18:15  
End at: 2019-07-12 06:18:45  
Local clock offset: -2.804 ms  
Remote clock offset: -7.411 ms

# Below is generated by plot.py at 2019-07-12 07:55:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.80 Mbit/s  
95th percentile per-packet one-way delay: 68.290 ms  
Loss rate: 35.92%  
-- Flow 1:  
Average throughput: 58.77 Mbit/s  
95th percentile per-packet one-way delay: 67.033 ms  
Loss rate: 28.60%  
-- Flow 2:  
Average throughput: 43.86 Mbit/s  
95th percentile per-packet one-way delay: 69.812 ms  
Loss rate: 45.76%  
-- Flow 3:  
Average throughput: 11.85 Mbit/s  
95th percentile per-packet one-way delay: 64.803 ms  
Loss rate: 45.89%

Run 3: Report of FillP — Data Link

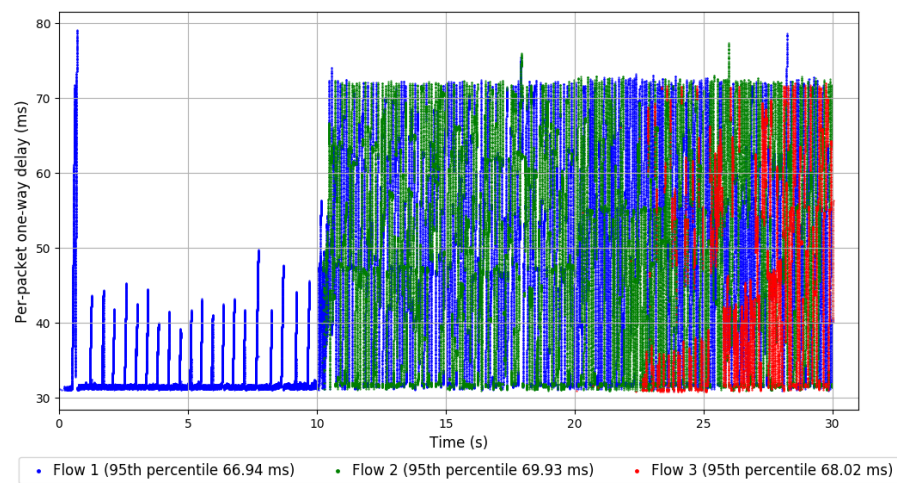
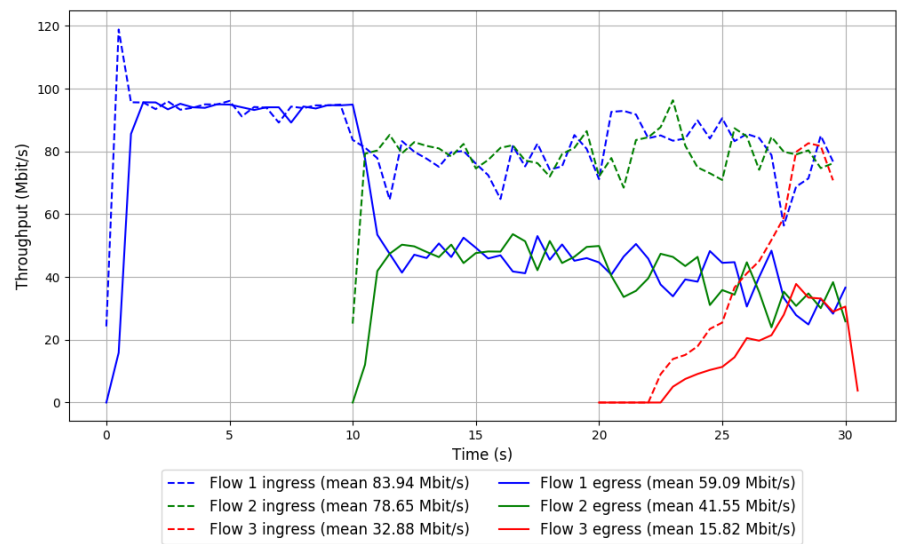


Run 4: Statistics of FillP

Start at: 2019-07-12 07:00:46  
End at: 2019-07-12 07:01:16  
Local clock offset: 0.457 ms  
Remote clock offset: -7.228 ms

# Below is generated by plot.py at 2019-07-12 07:55:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.92 Mbit/s  
95th percentile per-packet one-way delay: 68.456 ms  
Loss rate: 37.48%  
-- Flow 1:  
Average throughput: 59.09 Mbit/s  
95th percentile per-packet one-way delay: 66.942 ms  
Loss rate: 29.58%  
-- Flow 2:  
Average throughput: 41.55 Mbit/s  
95th percentile per-packet one-way delay: 69.926 ms  
Loss rate: 47.17%  
-- Flow 3:  
Average throughput: 15.82 Mbit/s  
95th percentile per-packet one-way delay: 68.018 ms  
Loss rate: 51.77%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-07-12 07:40:03

End at: 2019-07-12 07:40:33

Local clock offset: -0.172 ms

Remote clock offset: -7.24 ms

# Below is generated by plot.py at 2019-07-12 07:55:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.27 Mbit/s

95th percentile per-packet one-way delay: 68.715 ms

Loss rate: 38.08%

-- Flow 1:

Average throughput: 58.29 Mbit/s

95th percentile per-packet one-way delay: 67.496 ms

Loss rate: 29.67%

-- Flow 2:

Average throughput: 39.18 Mbit/s

95th percentile per-packet one-way delay: 70.002 ms

Loss rate: 48.51%

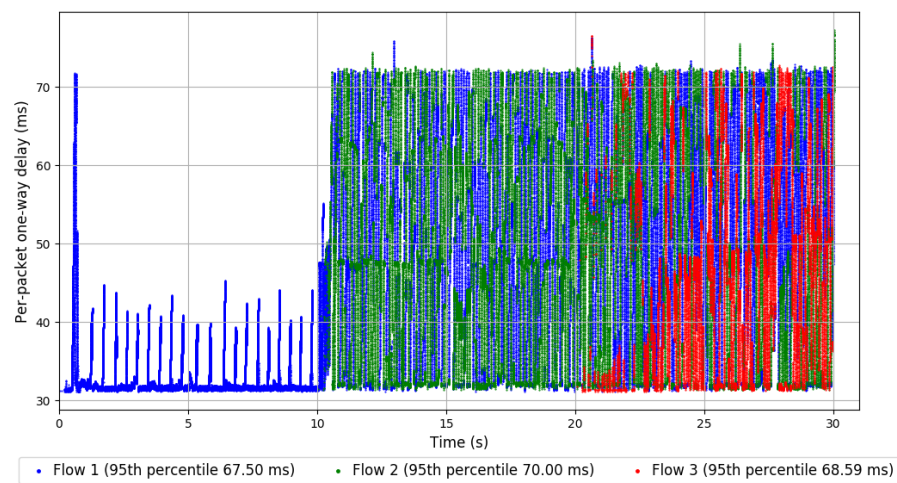
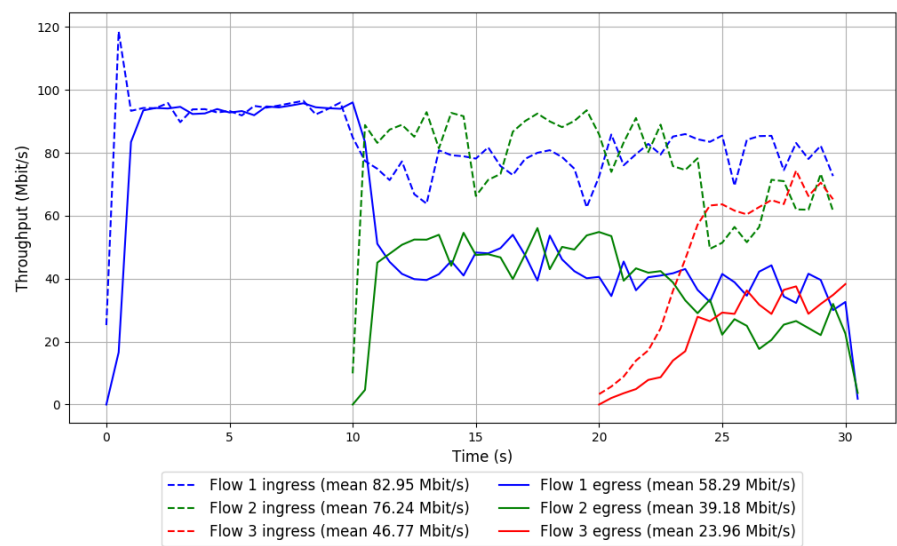
-- Flow 3:

Average throughput: 23.96 Mbit/s

95th percentile per-packet one-way delay: 68.590 ms

Loss rate: 48.88%

Run 5: Report of FillP — Data Link



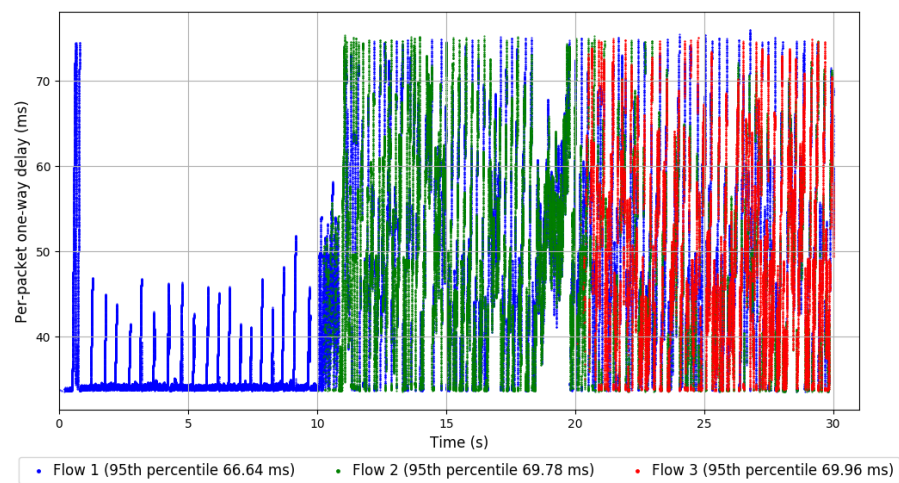
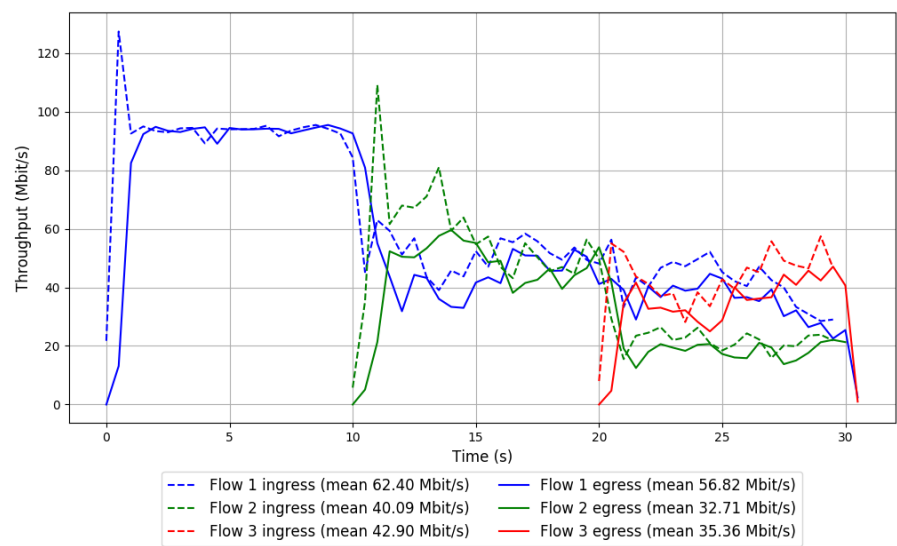


Run 1: Statistics of FillP-Sheep

Start at: 2019-07-12 04:35:32  
End at: 2019-07-12 04:36:02  
Local clock offset: -1.305 ms  
Remote clock offset: -5.385 ms

# Below is generated by plot.py at 2019-07-12 07:55:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.27 Mbit/s  
95th percentile per-packet one-way delay: 68.294 ms  
Loss rate: 12.49%  
-- Flow 1:  
Average throughput: 56.82 Mbit/s  
95th percentile per-packet one-way delay: 66.645 ms  
Loss rate: 8.88%  
-- Flow 2:  
Average throughput: 32.71 Mbit/s  
95th percentile per-packet one-way delay: 69.781 ms  
Loss rate: 18.29%  
-- Flow 3:  
Average throughput: 35.36 Mbit/s  
95th percentile per-packet one-way delay: 69.962 ms  
Loss rate: 17.47%

Run 1: Report of FillP-Sheep — Data Link

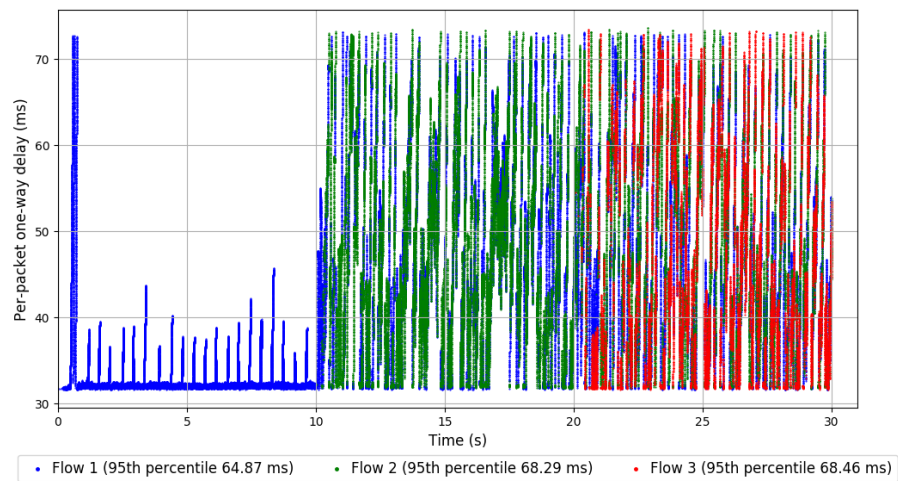
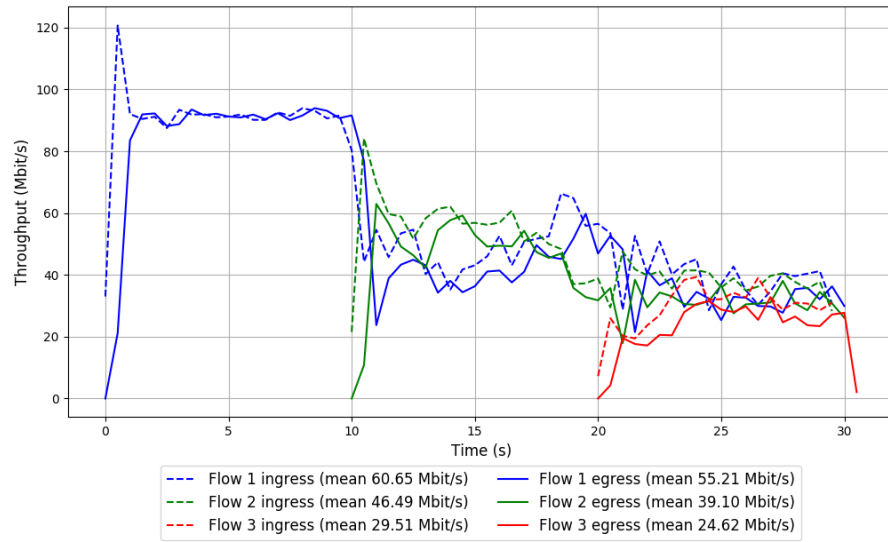


Run 2: Statistics of FillP-Sheep

Start at: 2019-07-12 05:23:48  
End at: 2019-07-12 05:24:18  
Local clock offset: -4.451 ms  
Remote clock offset: -8.452 ms

# Below is generated by plot.py at 2019-07-12 07:55:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.38 Mbit/s  
95th percentile per-packet one-way delay: 66.826 ms  
Loss rate: 11.78%  
-- Flow 1:  
Average throughput: 55.21 Mbit/s  
95th percentile per-packet one-way delay: 64.872 ms  
Loss rate: 8.93%  
-- Flow 2:  
Average throughput: 39.10 Mbit/s  
95th percentile per-packet one-way delay: 68.294 ms  
Loss rate: 15.84%  
-- Flow 3:  
Average throughput: 24.62 Mbit/s  
95th percentile per-packet one-way delay: 68.463 ms  
Loss rate: 16.59%

## Run 2: Report of FillP-Sheep — Data Link

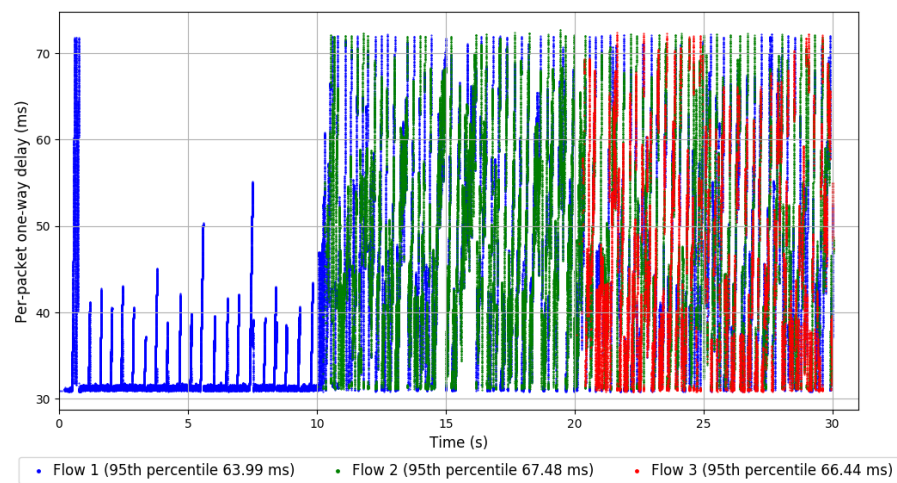
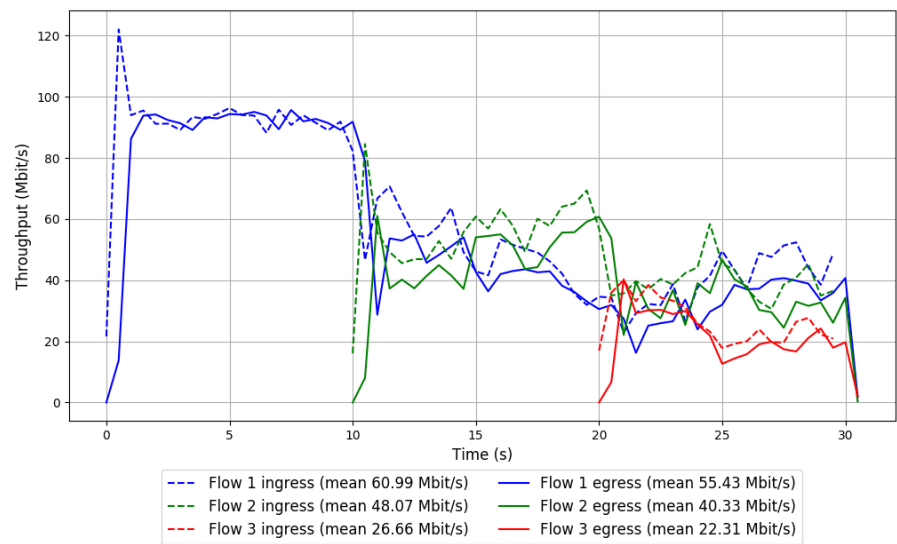


Run 3: Statistics of FillP-Sheep

Start at: 2019-07-12 06:09:06  
End at: 2019-07-12 06:09:36  
Local clock offset: -2.828 ms  
Remote clock offset: -7.828 ms

# Below is generated by plot.py at 2019-07-12 07:55:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.68 Mbit/s  
95th percentile per-packet one-way delay: 65.730 ms  
Loss rate: 11.88%  
-- Flow 1:  
Average throughput: 55.43 Mbit/s  
95th percentile per-packet one-way delay: 63.993 ms  
Loss rate: 9.07%  
-- Flow 2:  
Average throughput: 40.33 Mbit/s  
95th percentile per-packet one-way delay: 67.484 ms  
Loss rate: 16.02%  
-- Flow 3:  
Average throughput: 22.31 Mbit/s  
95th percentile per-packet one-way delay: 66.438 ms  
Loss rate: 16.23%

Run 3: Report of FillP-Sheep — Data Link

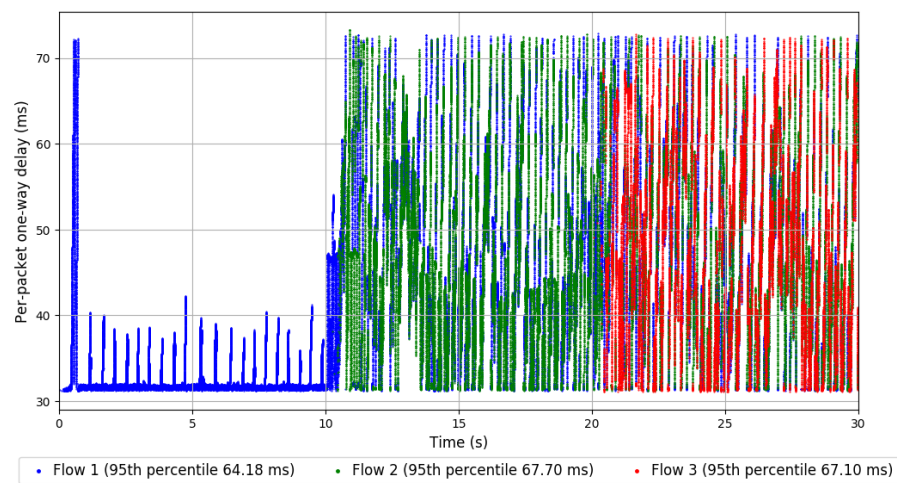
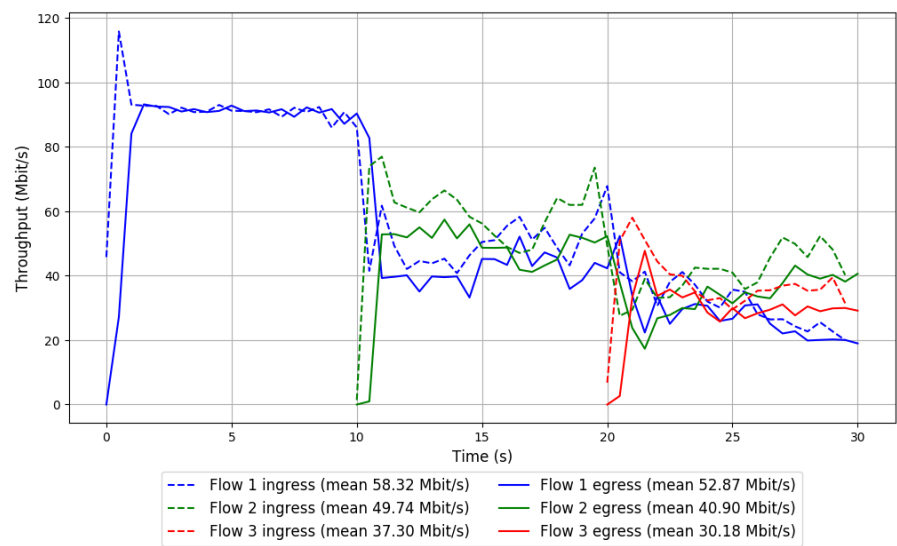


Run 4: Statistics of FillP-Sheep

Start at: 2019-07-12 06:51:47  
End at: 2019-07-12 06:52:17  
Local clock offset: 0.664 ms  
Remote clock offset: -7.406 ms

# Below is generated by plot.py at 2019-07-12 07:56:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.06 Mbit/s  
95th percentile per-packet one-way delay: 66.184 ms  
Loss rate: 13.23%  
-- Flow 1:  
Average throughput: 52.87 Mbit/s  
95th percentile per-packet one-way delay: 64.178 ms  
Loss rate: 9.34%  
-- Flow 2:  
Average throughput: 40.90 Mbit/s  
95th percentile per-packet one-way delay: 67.699 ms  
Loss rate: 17.77%  
-- Flow 3:  
Average throughput: 30.18 Mbit/s  
95th percentile per-packet one-way delay: 67.102 ms  
Loss rate: 19.41%

Run 4: Report of FillP-Sheep — Data Link



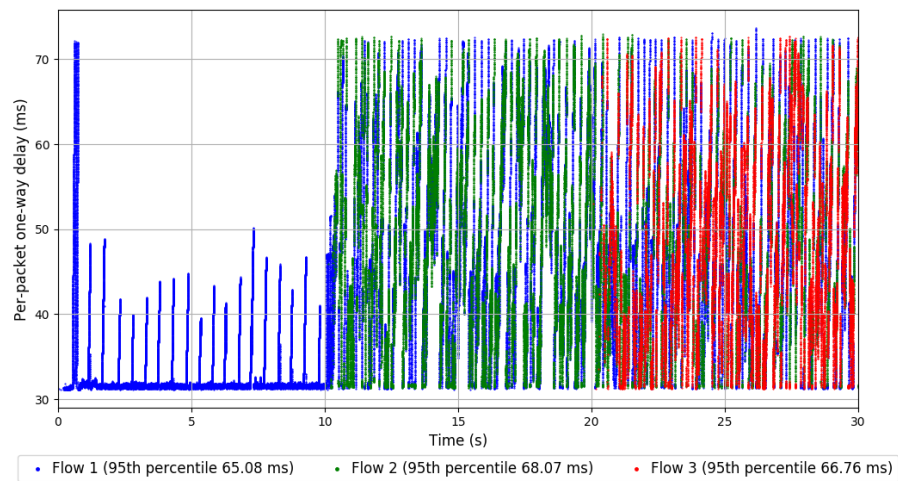
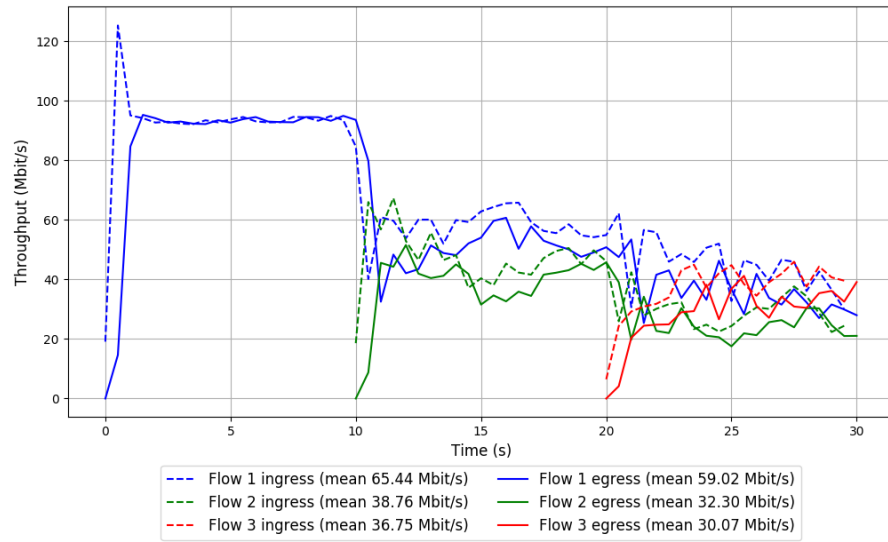


Run 5: Statistics of FillP-Sheep

Start at: 2019-07-12 07:31:38  
End at: 2019-07-12 07:32:08  
Local clock offset: -1.112 ms  
Remote clock offset: -7.289 ms

```
# Below is generated by plot.py at 2019-07-12 07:56:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.45 Mbit/s
95th percentile per-packet one-way delay: 66.289 ms
Loss rate: 12.53%
-- Flow 1:
Average throughput: 59.02 Mbit/s
95th percentile per-packet one-way delay: 65.084 ms
Loss rate: 9.81%
-- Flow 2:
Average throughput: 32.30 Mbit/s
95th percentile per-packet one-way delay: 68.067 ms
Loss rate: 16.68%
-- Flow 3:
Average throughput: 30.07 Mbit/s
95th percentile per-packet one-way delay: 66.757 ms
Loss rate: 18.35%
```

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



Run 1: Statistics of Indigo

Start at: 2019-07-12 04:38:05

End at: 2019-07-12 04:38:35

Local clock offset: -1.634 ms

Remote clock offset: -5.96 ms

# Below is generated by plot.py at 2019-07-12 07:56:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 55.00 Mbit/s

95th percentile per-packet one-way delay: 38.554 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 26.37 Mbit/s

95th percentile per-packet one-way delay: 37.646 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 20.99 Mbit/s

95th percentile per-packet one-way delay: 39.592 ms

Loss rate: 0.00%

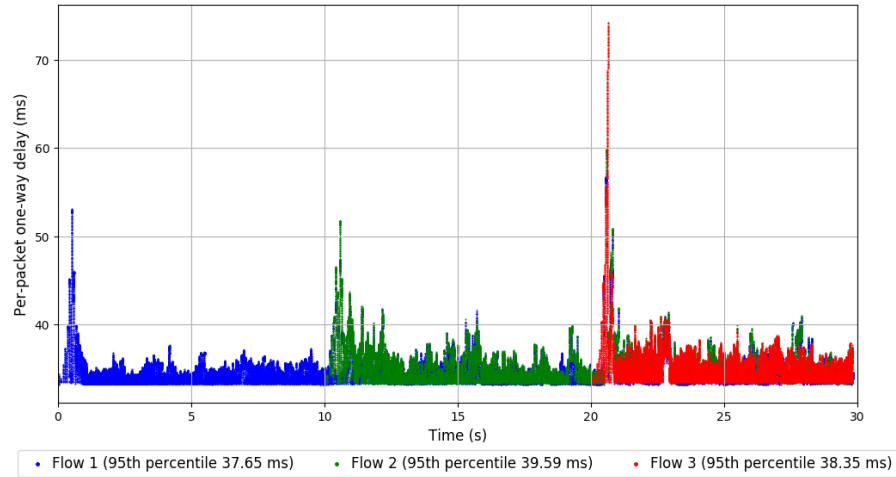
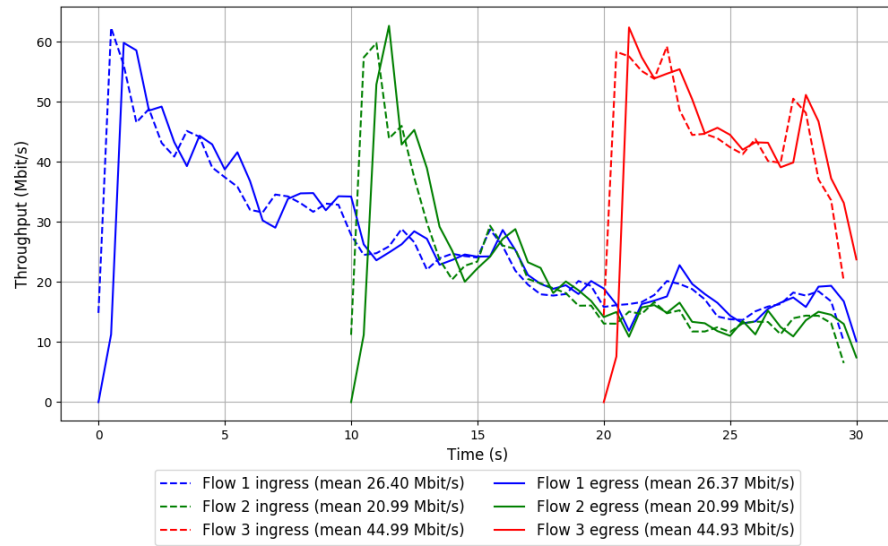
-- Flow 3:

Average throughput: 44.93 Mbit/s

95th percentile per-packet one-way delay: 38.354 ms

Loss rate: 0.11%

## Run 1: Report of Indigo — Data Link

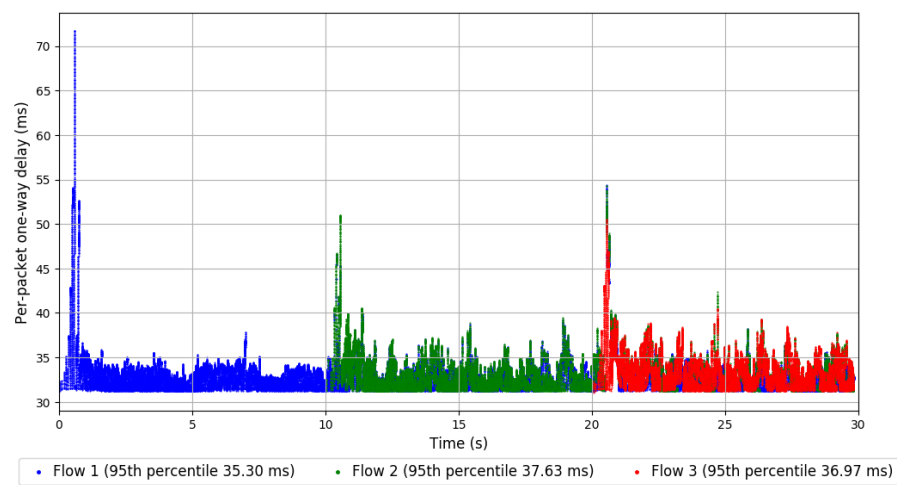
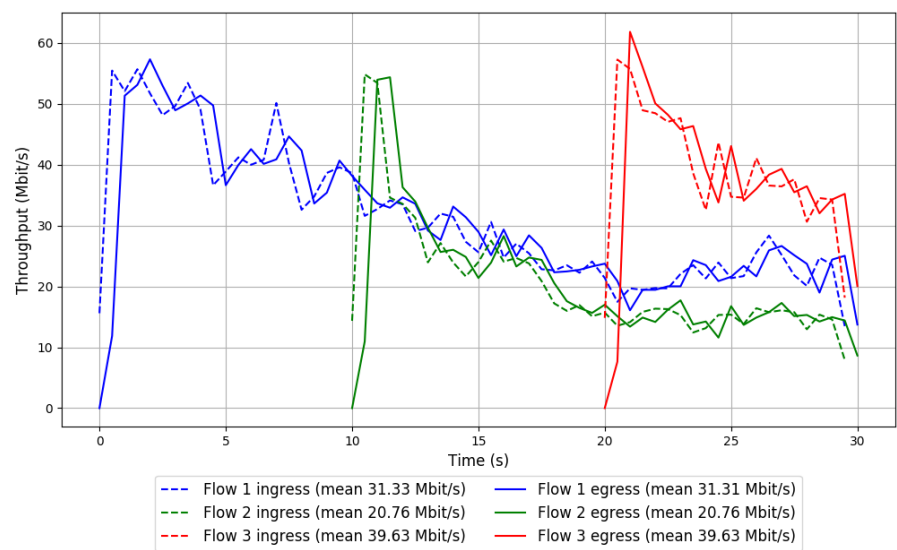


Run 2: Statistics of Indigo

Start at: 2019-07-12 05:26:14  
End at: 2019-07-12 05:26:44  
Local clock offset: -4.56 ms  
Remote clock offset: -8.996 ms

# Below is generated by plot.py at 2019-07-12 07:56:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 58.06 Mbit/s  
95th percentile per-packet one-way delay: 36.573 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 31.31 Mbit/s  
95th percentile per-packet one-way delay: 35.303 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 20.76 Mbit/s  
95th percentile per-packet one-way delay: 37.631 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 39.63 Mbit/s  
95th percentile per-packet one-way delay: 36.974 ms  
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

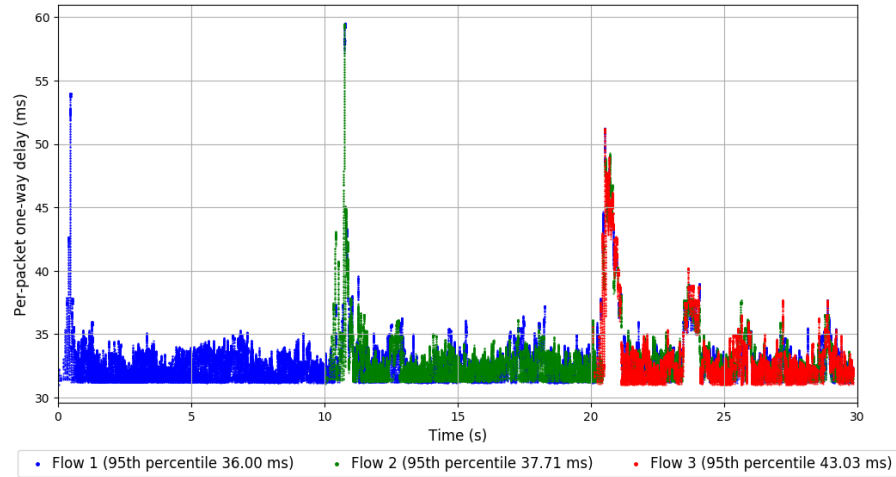
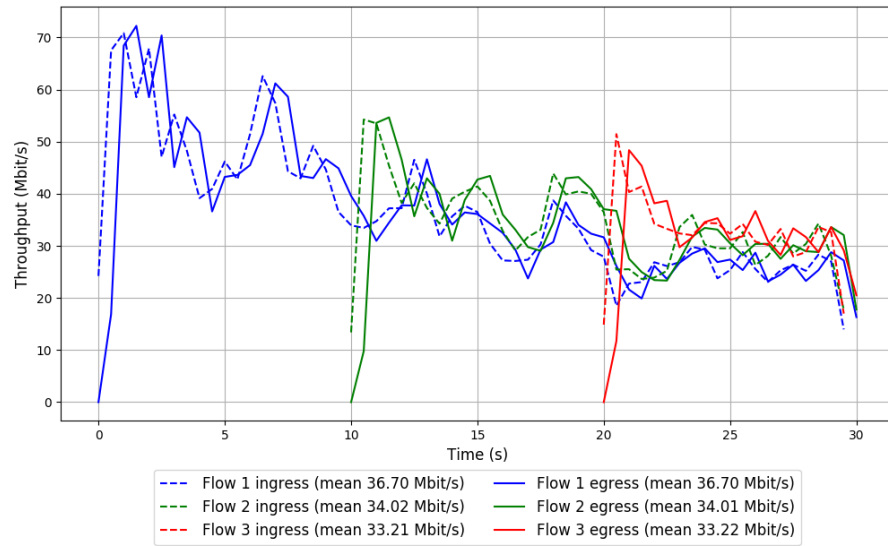


Run 3: Statistics of Indigo

Start at: 2019-07-12 06:11:13  
End at: 2019-07-12 06:11:43  
Local clock offset: -2.804 ms  
Remote clock offset: -7.717 ms

# Below is generated by plot.py at 2019-07-12 07:56:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 70.11 Mbit/s  
95th percentile per-packet one-way delay: 37.543 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 36.70 Mbit/s  
95th percentile per-packet one-way delay: 35.999 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 34.01 Mbit/s  
95th percentile per-packet one-way delay: 37.707 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 33.22 Mbit/s  
95th percentile per-packet one-way delay: 43.031 ms  
Loss rate: 0.00%

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



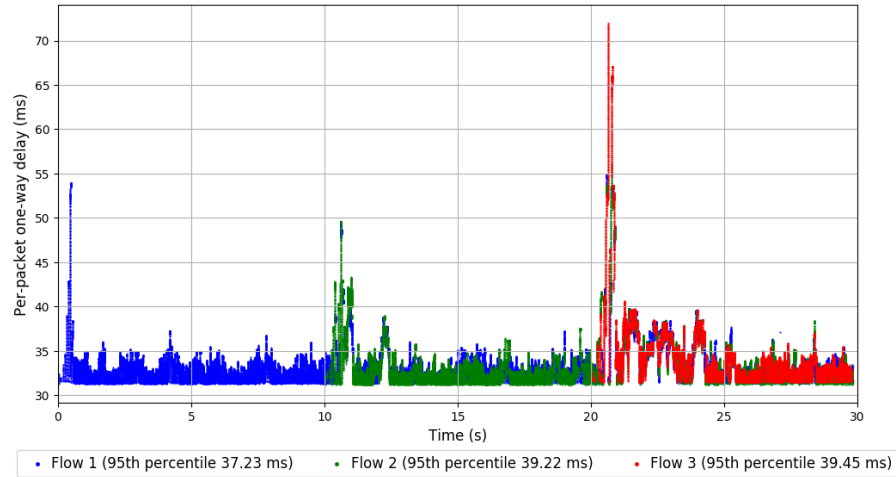
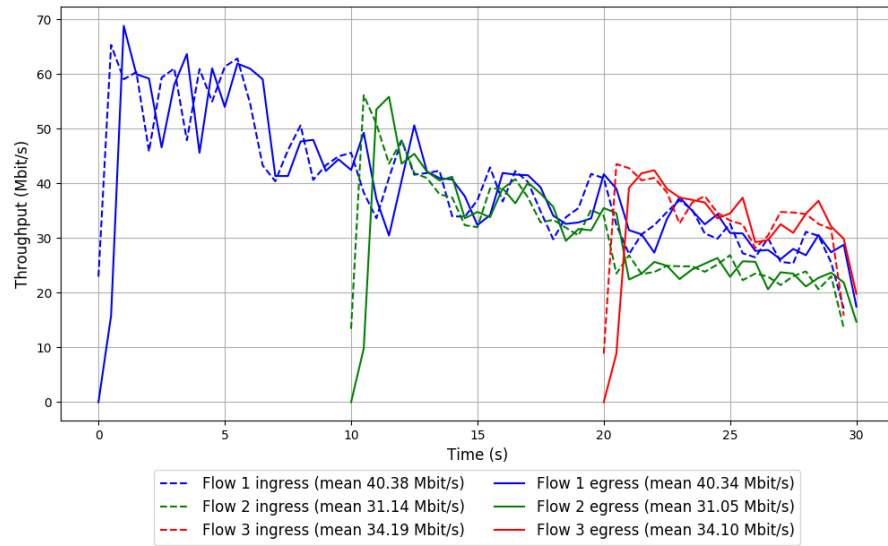


Run 4: Statistics of Indigo

Start at: 2019-07-12 06:53:34  
End at: 2019-07-12 06:54:04  
Local clock offset: 0.737 ms  
Remote clock offset: -7.359 ms

# Below is generated by plot.py at 2019-07-12 07:56:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 72.07 Mbit/s  
95th percentile per-packet one-way delay: 38.172 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 40.34 Mbit/s  
95th percentile per-packet one-way delay: 37.229 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 31.05 Mbit/s  
95th percentile per-packet one-way delay: 39.218 ms  
Loss rate: 0.28%  
-- Flow 3:  
Average throughput: 34.10 Mbit/s  
95th percentile per-packet one-way delay: 39.447 ms  
Loss rate: 0.26%

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

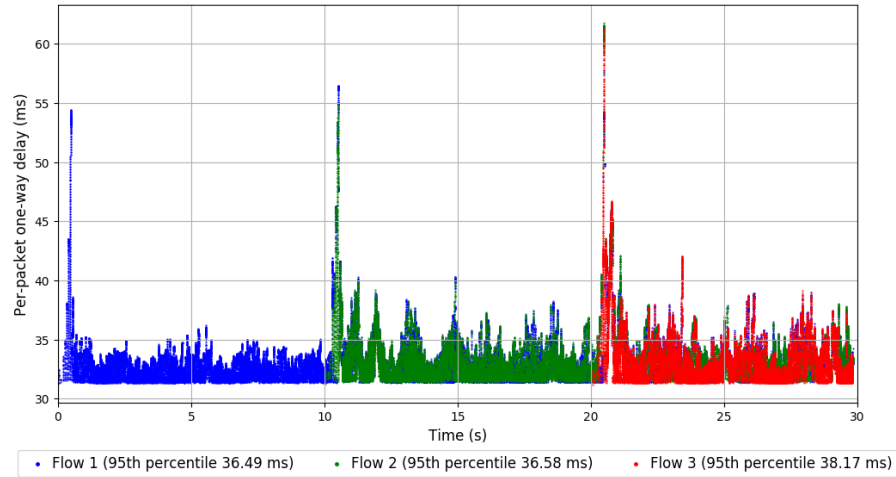
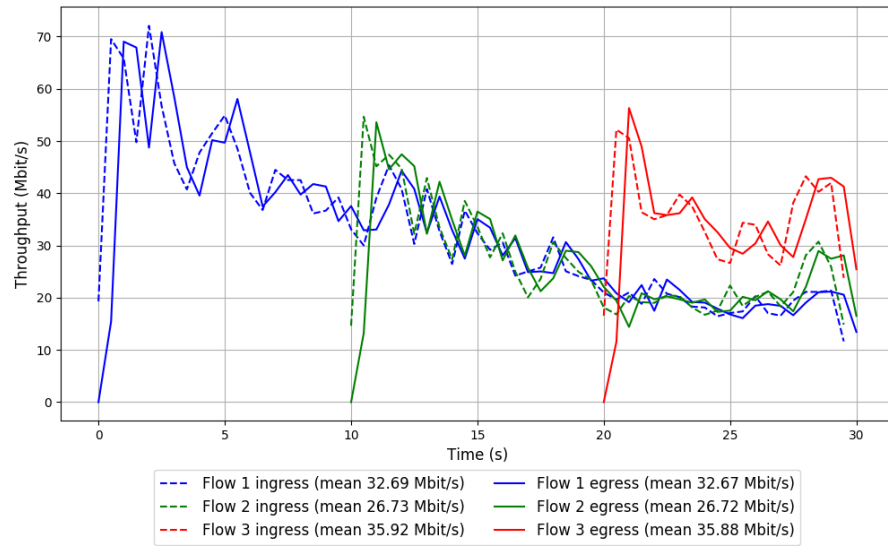


Run 5: Statistics of Indigo

Start at: 2019-07-12 07:33:23  
End at: 2019-07-12 07:33:53  
Local clock offset: -0.871 ms  
Remote clock offset: -7.309 ms

# Below is generated by plot.py at 2019-07-12 07:56:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 62.15 Mbit/s  
95th percentile per-packet one-way delay: 36.749 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 32.67 Mbit/s  
95th percentile per-packet one-way delay: 36.487 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 26.72 Mbit/s  
95th percentile per-packet one-way delay: 36.575 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 35.88 Mbit/s  
95th percentile per-packet one-way delay: 38.175 ms  
Loss rate: 0.09%

## Run 5: Report of Indigo — Data Link

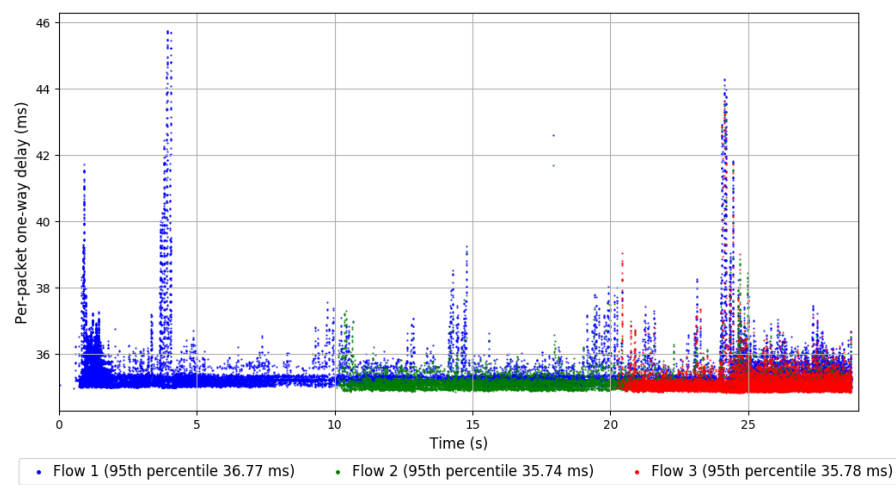
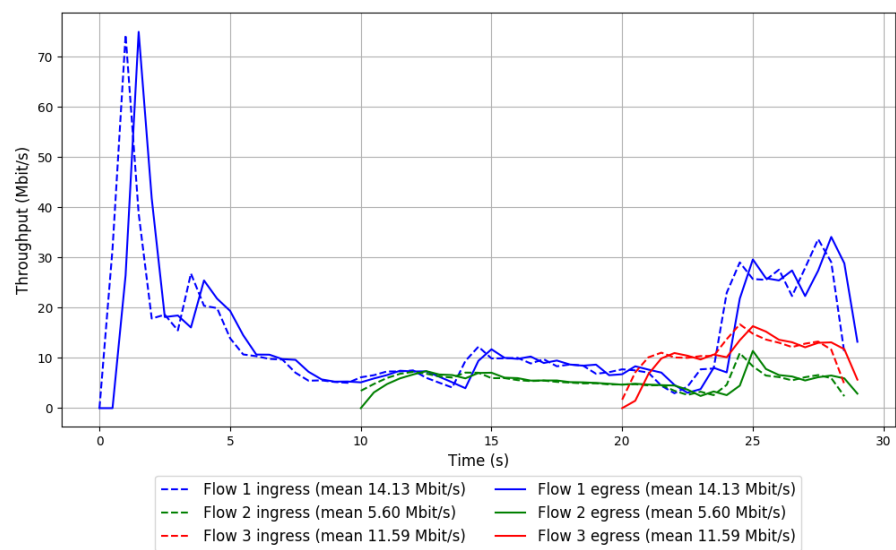


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-07-12 04:40:52  
End at: 2019-07-12 04:41:22  
Local clock offset: -1.833 ms  
Remote clock offset: -4.492 ms

# Below is generated by plot.py at 2019-07-12 07:56:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 21.21 Mbit/s  
95th percentile per-packet one-way delay: 36.460 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 14.13 Mbit/s  
95th percentile per-packet one-way delay: 36.771 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 5.60 Mbit/s  
95th percentile per-packet one-way delay: 35.741 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 11.59 Mbit/s  
95th percentile per-packet one-way delay: 35.779 ms  
Loss rate: 0.00%

Run 1: Report of Indigo-MusesC3 — Data Link

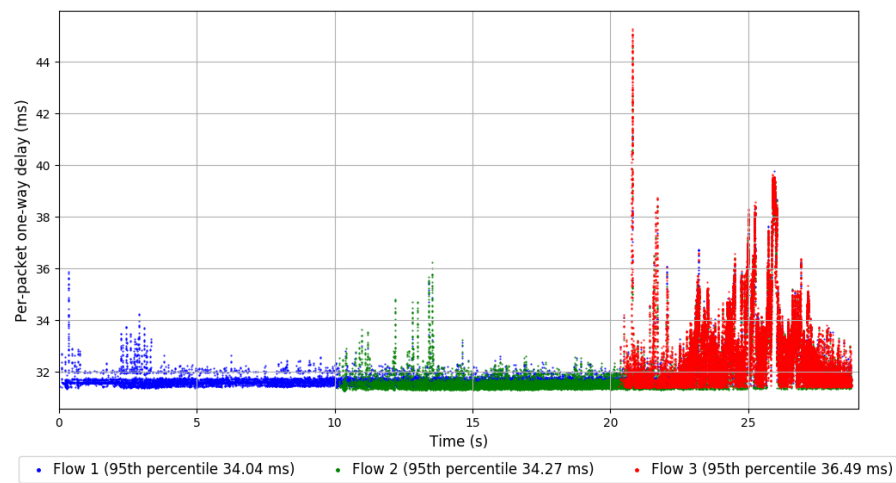
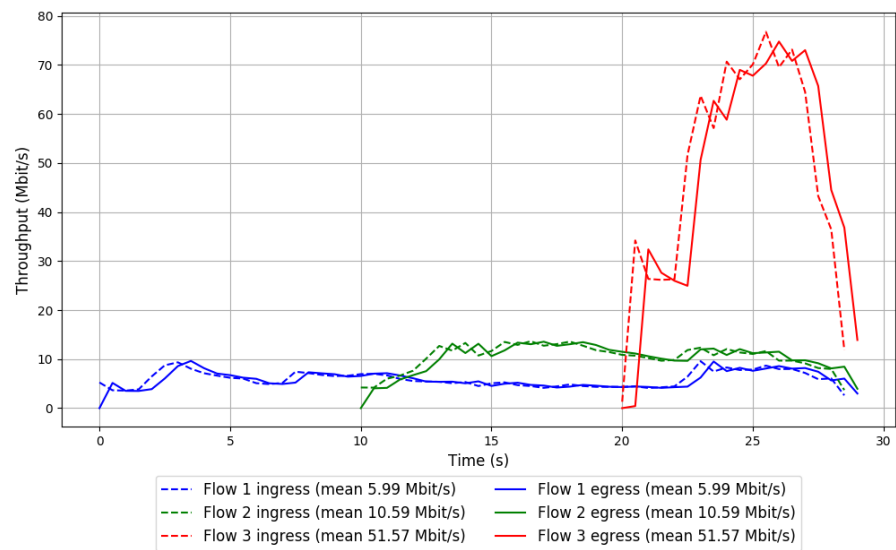


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-07-12 05:28:36  
End at: 2019-07-12 05:29:06  
Local clock offset: -4.676 ms  
Remote clock offset: -8.947 ms

# Below is generated by plot.py at 2019-07-12 07:56:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 28.02 Mbit/s  
95th percentile per-packet one-way delay: 35.525 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 5.99 Mbit/s  
95th percentile per-packet one-way delay: 34.042 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 10.59 Mbit/s  
95th percentile per-packet one-way delay: 34.272 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 51.57 Mbit/s  
95th percentile per-packet one-way delay: 36.491 ms  
Loss rate: 0.00%

Run 2: Report of Indigo-MusesC3 — Data Link



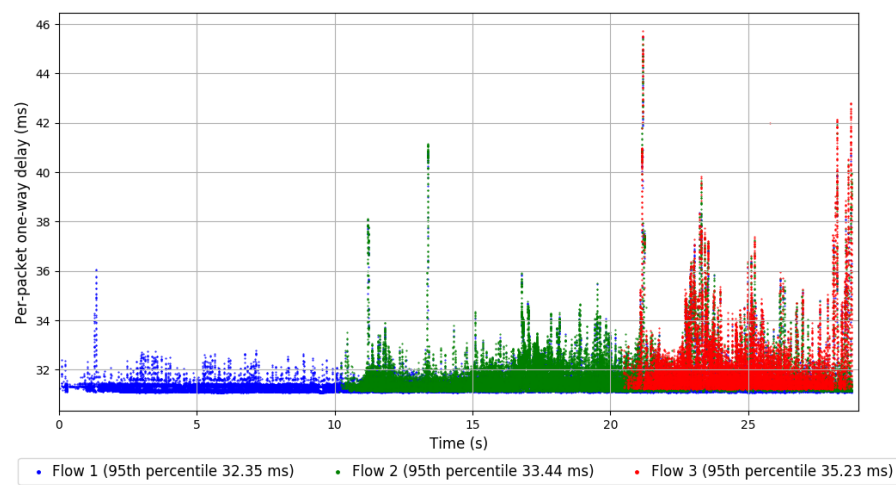
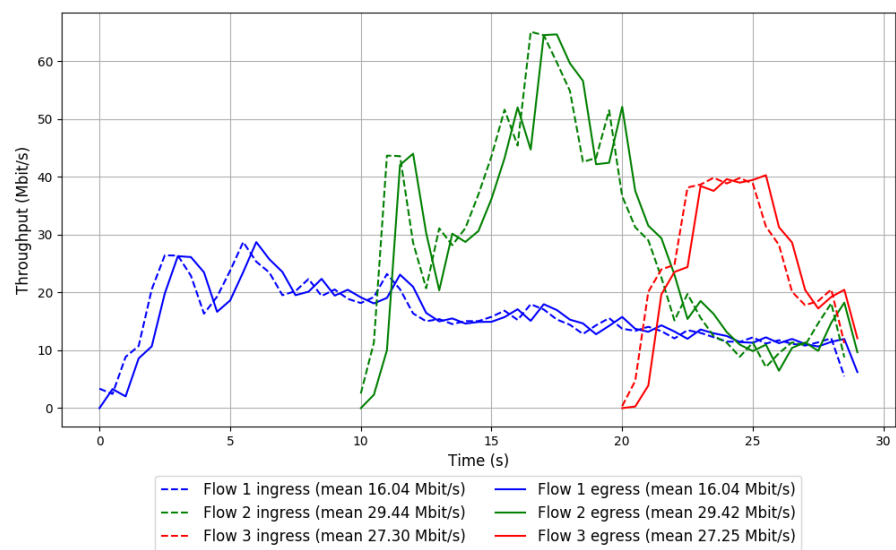


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-07-12 06:13:34  
End at: 2019-07-12 06:14:04  
Local clock offset: -2.818 ms  
Remote clock offset: -7.676 ms

# Below is generated by plot.py at 2019-07-12 07:56:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 43.00 Mbit/s  
95th percentile per-packet one-way delay: 33.556 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 16.04 Mbit/s  
95th percentile per-packet one-way delay: 32.354 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 29.42 Mbit/s  
95th percentile per-packet one-way delay: 33.437 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 27.25 Mbit/s  
95th percentile per-packet one-way delay: 35.230 ms  
Loss rate: 0.09%

Run 3: Report of Indigo-MusesC3 — Data Link

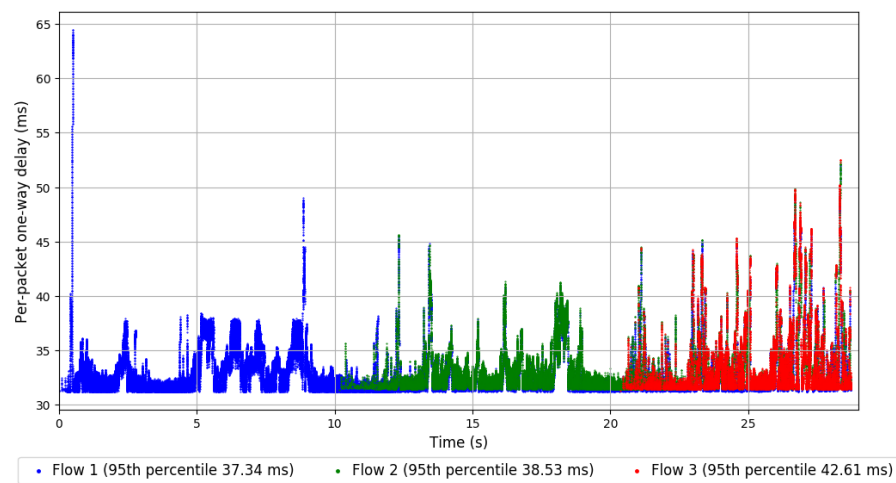
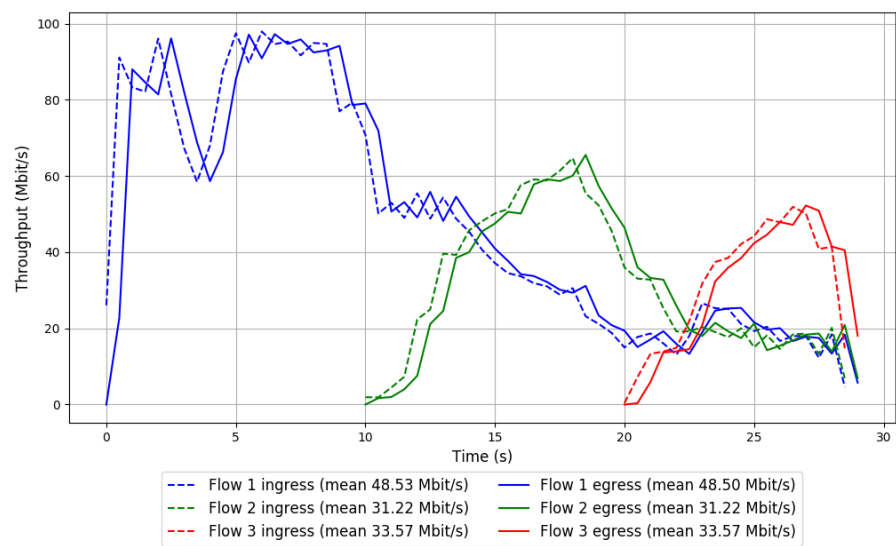


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-07-12 06:55:34  
End at: 2019-07-12 06:56:04  
Local clock offset: 0.884 ms  
Remote clock offset: -7.309 ms

# Below is generated by plot.py at 2019-07-12 07:57:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.48 Mbit/s  
95th percentile per-packet one-way delay: 37.885 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 48.50 Mbit/s  
95th percentile per-packet one-way delay: 37.335 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 31.22 Mbit/s  
95th percentile per-packet one-way delay: 38.532 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 33.57 Mbit/s  
95th percentile per-packet one-way delay: 42.606 ms  
Loss rate: 0.00%

Run 4: Report of Indigo-MusesC3 — Data Link

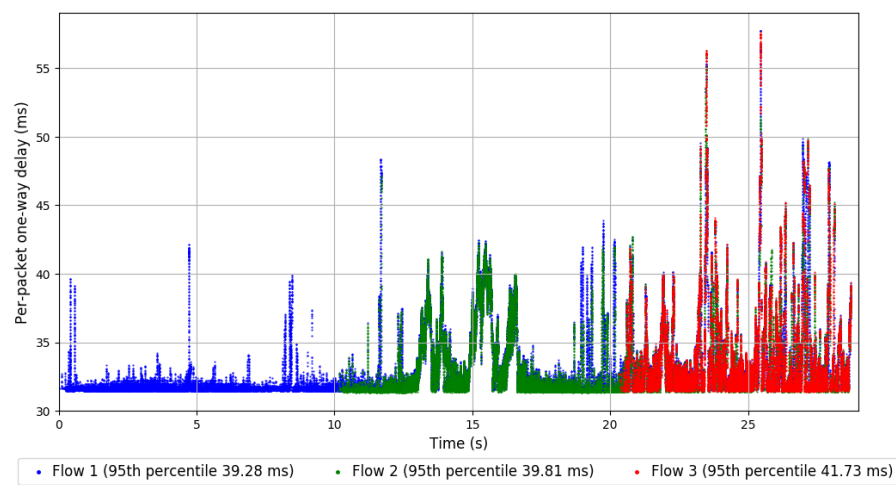
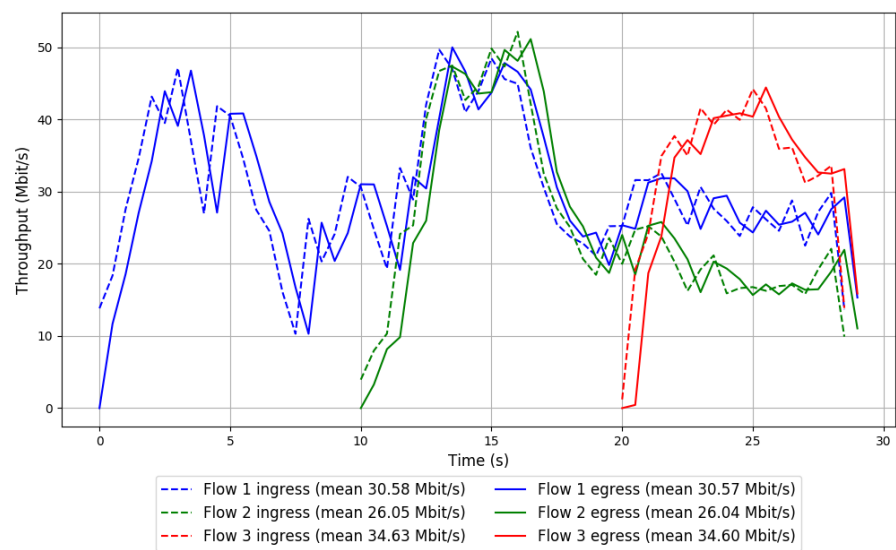


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-07-12 07:35:22  
End at: 2019-07-12 07:35:52  
Local clock offset: -0.595 ms  
Remote clock offset: -7.209 ms

# Below is generated by plot.py at 2019-07-12 07:57:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 57.61 Mbit/s  
95th percentile per-packet one-way delay: 39.716 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 30.57 Mbit/s  
95th percentile per-packet one-way delay: 39.284 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 26.04 Mbit/s  
95th percentile per-packet one-way delay: 39.811 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 34.60 Mbit/s  
95th percentile per-packet one-way delay: 41.728 ms  
Loss rate: 0.02%

Run 5: Report of Indigo-MusesC3 — Data Link

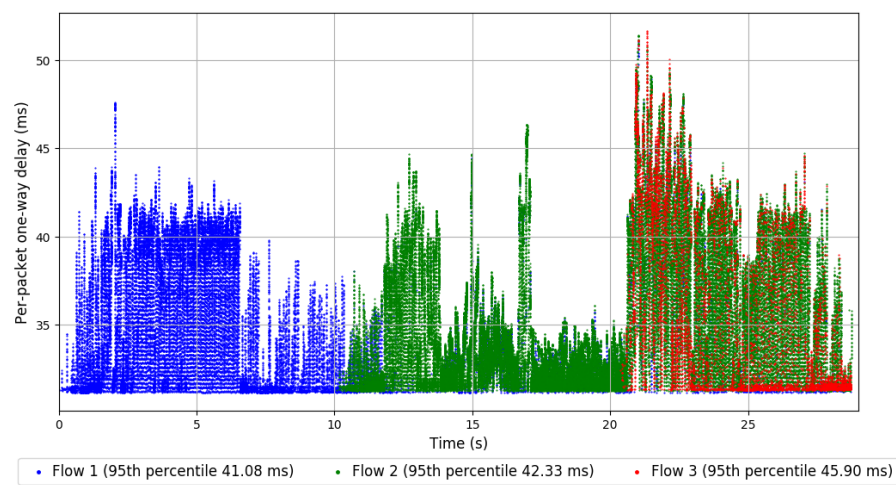
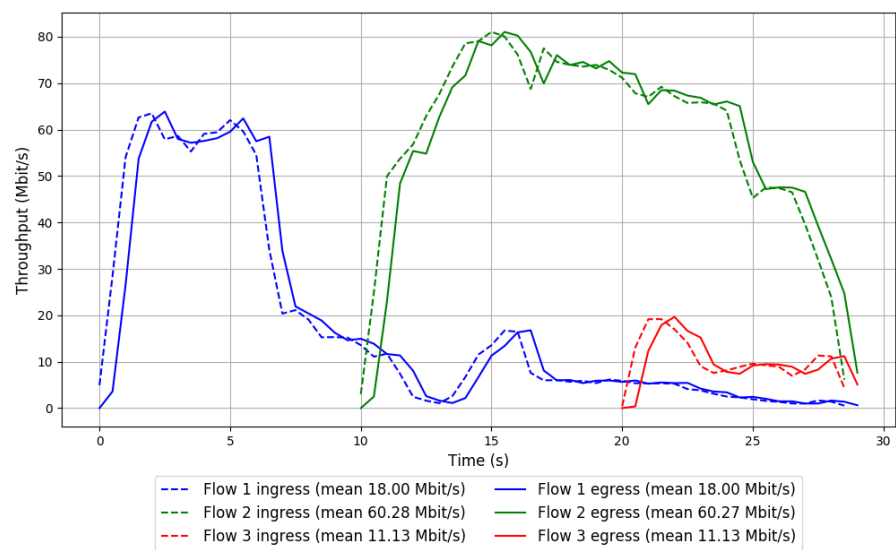


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-07-12 04:43:41  
End at: 2019-07-12 04:44:11  
Local clock offset: -2.037 ms  
Remote clock offset: -8.226 ms

# Below is generated by plot.py at 2019-07-12 07:57:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 60.38 Mbit/s  
95th percentile per-packet one-way delay: 42.159 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 18.00 Mbit/s  
95th percentile per-packet one-way delay: 41.083 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 60.27 Mbit/s  
95th percentile per-packet one-way delay: 42.332 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 11.13 Mbit/s  
95th percentile per-packet one-way delay: 45.901 ms  
Loss rate: 0.00%

Run 1: Report of Indigo-MusesC5 — Data Link



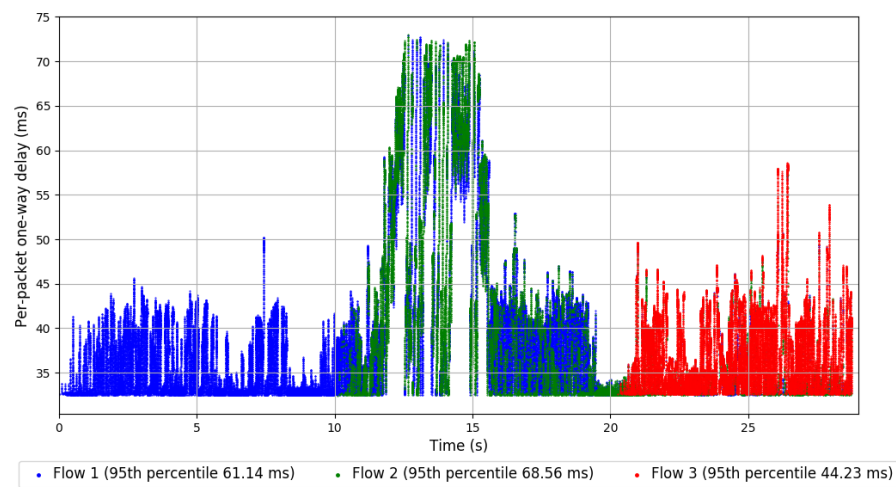
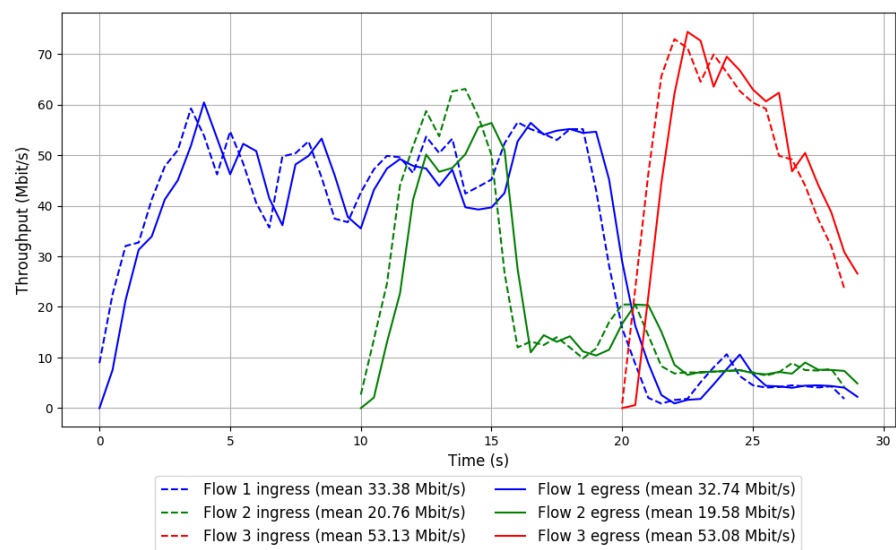


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-07-12 05:31:37  
End at: 2019-07-12 05:32:07  
Local clock offset: -4.195 ms  
Remote clock offset: -7.807 ms

# Below is generated by plot.py at 2019-07-12 07:57:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 61.12 Mbit/s  
95th percentile per-packet one-way delay: 63.033 ms  
Loss rate: 2.23%  
-- Flow 1:  
Average throughput: 32.74 Mbit/s  
95th percentile per-packet one-way delay: 61.141 ms  
Loss rate: 1.89%  
-- Flow 2:  
Average throughput: 19.58 Mbit/s  
95th percentile per-packet one-way delay: 68.558 ms  
Loss rate: 5.64%  
-- Flow 3:  
Average throughput: 53.08 Mbit/s  
95th percentile per-packet one-way delay: 44.233 ms  
Loss rate: 0.00%

Run 2: Report of Indigo-MusesC5 — Data Link

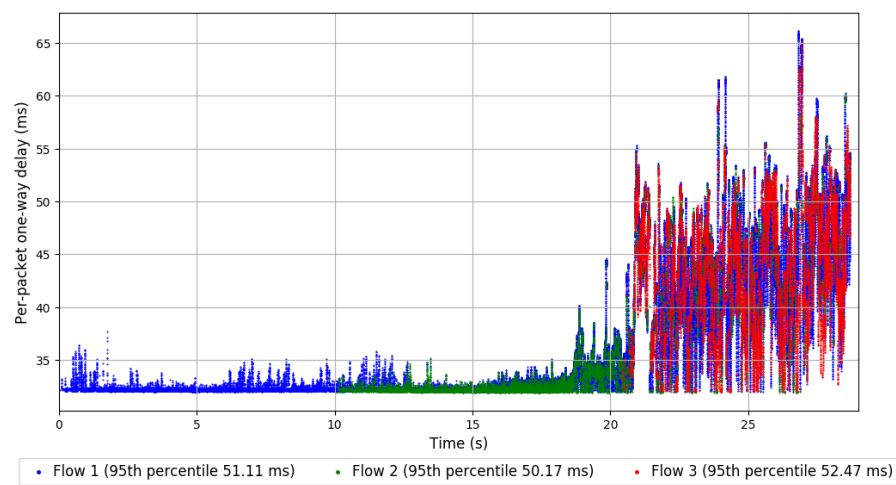
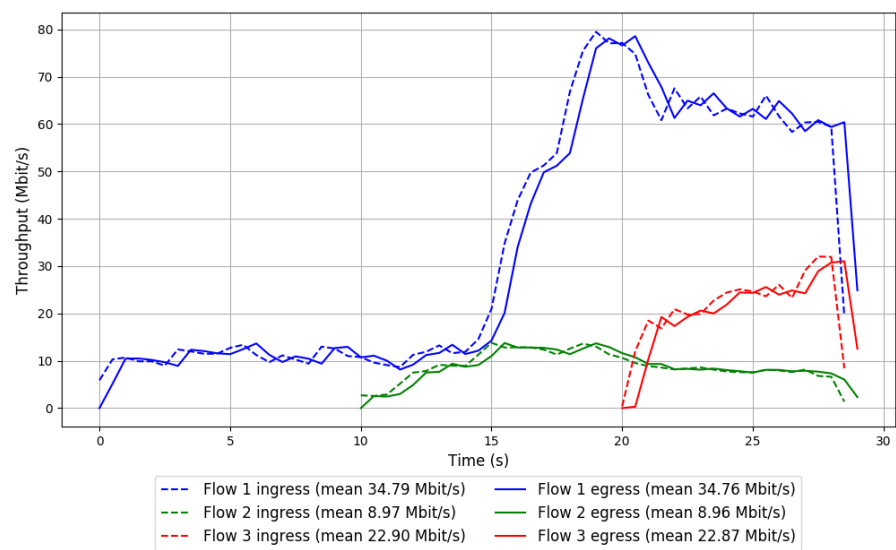


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-07-12 06:16:26  
End at: 2019-07-12 06:16:56  
Local clock offset: -2.779 ms  
Remote clock offset: -6.691 ms

# Below is generated by plot.py at 2019-07-12 07:57:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 47.21 Mbit/s  
95th percentile per-packet one-way delay: 51.234 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 34.76 Mbit/s  
95th percentile per-packet one-way delay: 51.108 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 8.96 Mbit/s  
95th percentile per-packet one-way delay: 50.169 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 22.87 Mbit/s  
95th percentile per-packet one-way delay: 52.473 ms  
Loss rate: 0.00%

Run 3: Report of Indigo-MusesC5 — Data Link

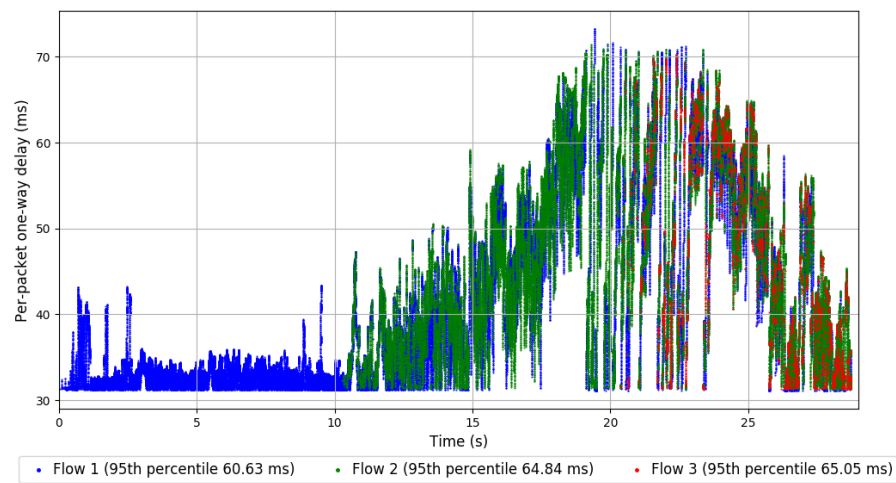
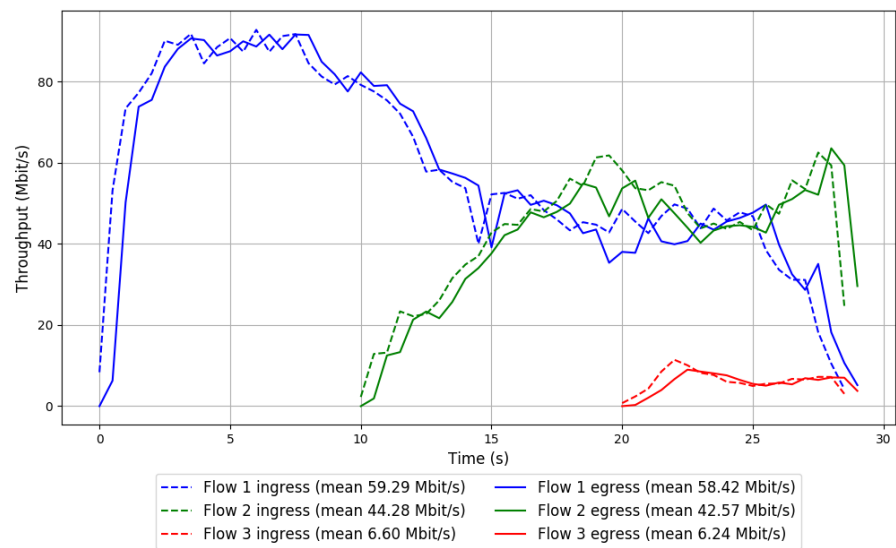


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-07-12 06:58:46  
End at: 2019-07-12 06:59:16  
Local clock offset: 0.954 ms  
Remote clock offset: -7.332 ms

# Below is generated by plot.py at 2019-07-12 07:57:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.62 Mbit/s  
95th percentile per-packet one-way delay: 62.708 ms  
Loss rate: 2.31%  
-- Flow 1:  
Average throughput: 58.42 Mbit/s  
95th percentile per-packet one-way delay: 60.632 ms  
Loss rate: 1.46%  
-- Flow 2:  
Average throughput: 42.57 Mbit/s  
95th percentile per-packet one-way delay: 64.839 ms  
Loss rate: 3.86%  
-- Flow 3:  
Average throughput: 6.24 Mbit/s  
95th percentile per-packet one-way delay: 65.054 ms  
Loss rate: 5.64%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-07-12 07:38:01

End at: 2019-07-12 07:38:31

Local clock offset: -0.294 ms

Remote clock offset: -7.28 ms

# Below is generated by plot.py at 2019-07-12 07:57:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 79.58 Mbit/s

95th percentile per-packet one-way delay: 58.904 ms

Loss rate: 2.79%

-- Flow 1:

Average throughput: 53.42 Mbit/s

95th percentile per-packet one-way delay: 56.964 ms

Loss rate: 1.89%

-- Flow 2:

Average throughput: 37.43 Mbit/s

95th percentile per-packet one-way delay: 61.157 ms

Loss rate: 4.54%

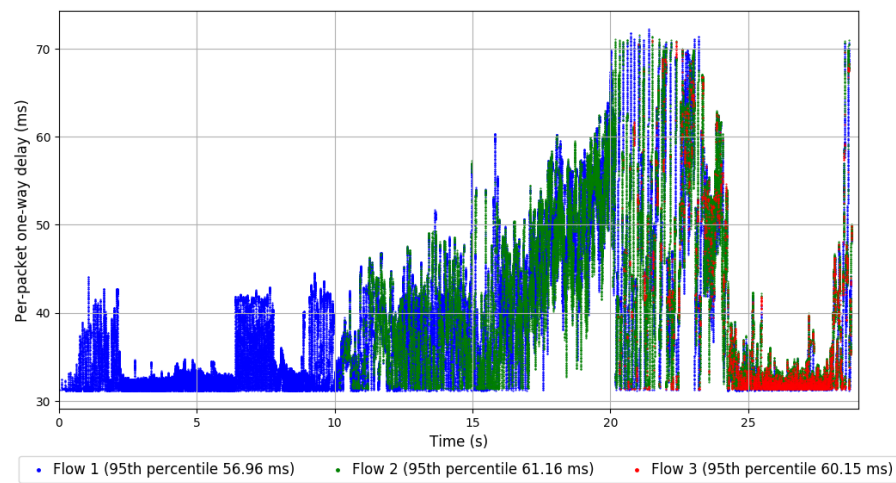
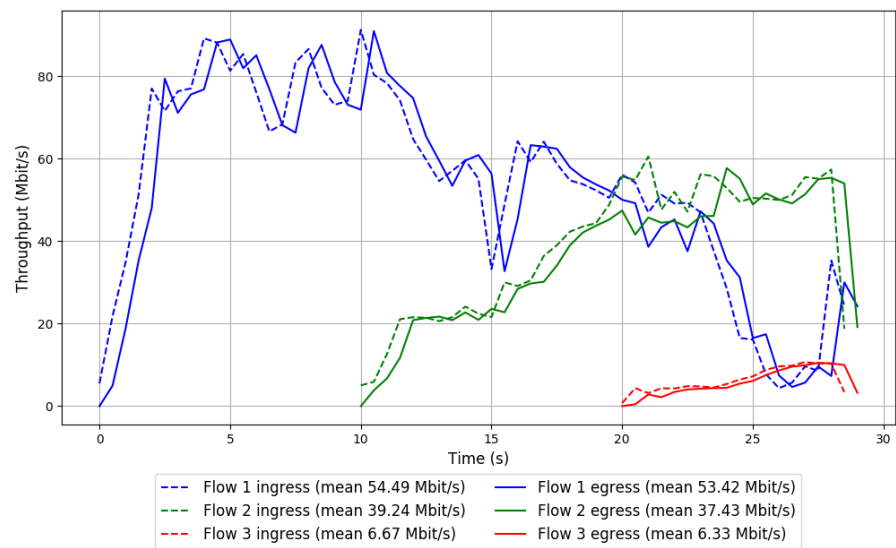
-- Flow 3:

Average throughput: 6.33 Mbit/s

95th percentile per-packet one-way delay: 60.152 ms

Loss rate: 4.96%

Run 5: Report of Indigo-MusesC5 — Data Link



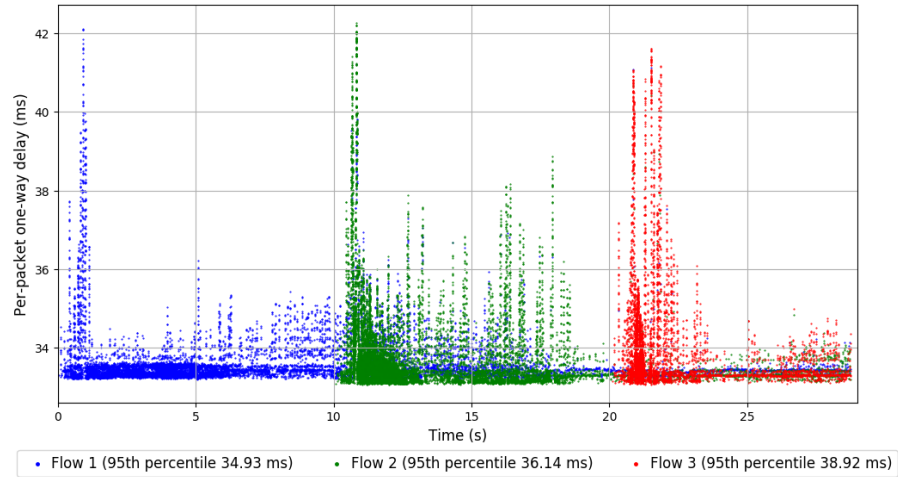
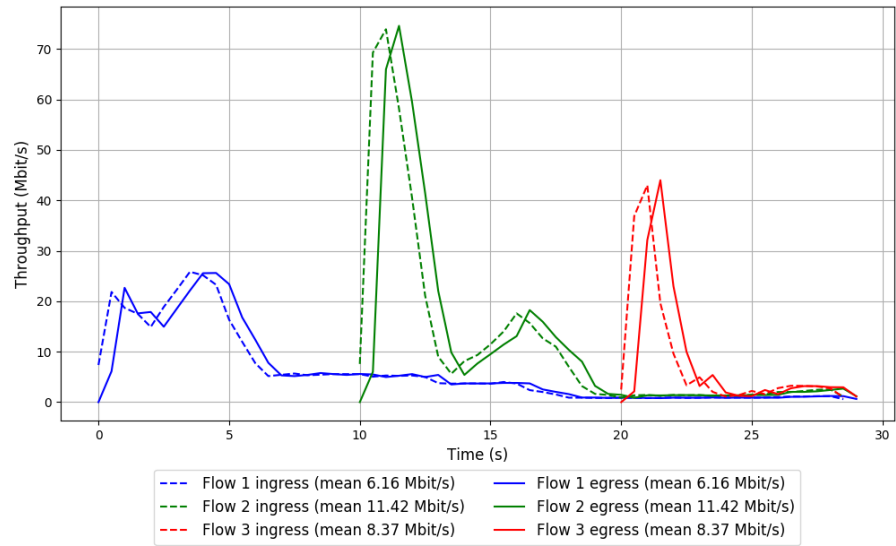


Run 1: Statistics of Indigo-MusesD

Start at: 2019-07-12 04:49:28  
End at: 2019-07-12 04:49:58  
Local clock offset: -2.39 ms  
Remote clock offset: -6.474 ms

# Below is generated by plot.py at 2019-07-12 07:57:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 16.10 Mbit/s  
95th percentile per-packet one-way delay: 36.119 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 6.16 Mbit/s  
95th percentile per-packet one-way delay: 34.931 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 11.42 Mbit/s  
95th percentile per-packet one-way delay: 36.140 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 8.37 Mbit/s  
95th percentile per-packet one-way delay: 38.921 ms  
Loss rate: 0.00%

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

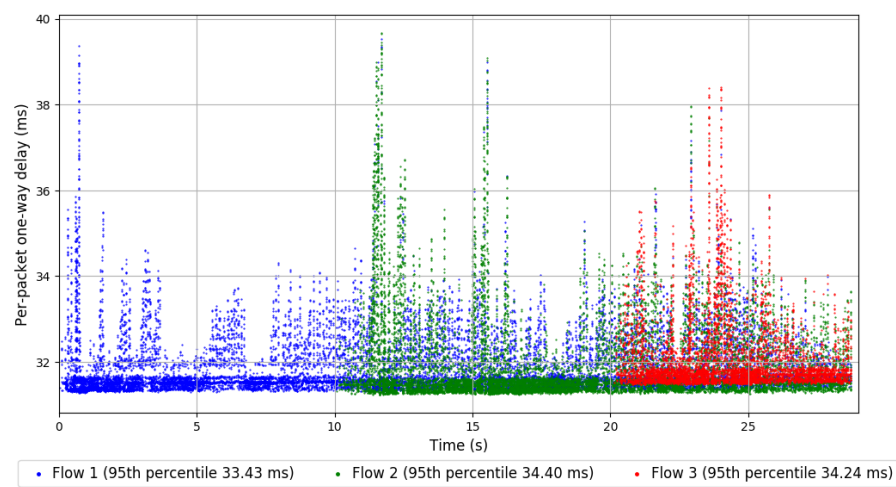
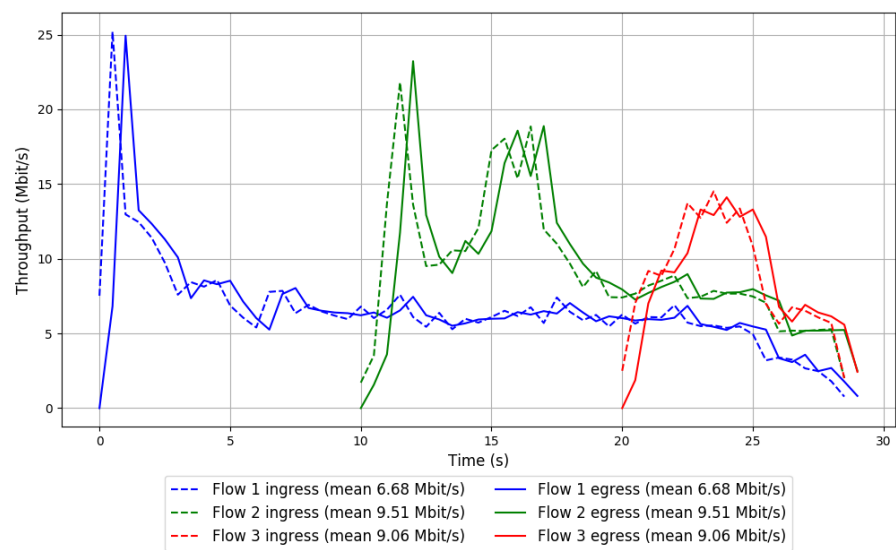


Run 2: Statistics of Indigo-MusesD

Start at: 2019-07-12 05:37:01  
End at: 2019-07-12 05:37:31  
Local clock offset: -3.51 ms  
Remote clock offset: -8.899 ms

# Below is generated by plot.py at 2019-07-12 07:57:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 15.57 Mbit/s  
95th percentile per-packet one-way delay: 33.944 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 6.68 Mbit/s  
95th percentile per-packet one-way delay: 33.433 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 9.51 Mbit/s  
95th percentile per-packet one-way delay: 34.401 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 9.06 Mbit/s  
95th percentile per-packet one-way delay: 34.241 ms  
Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link

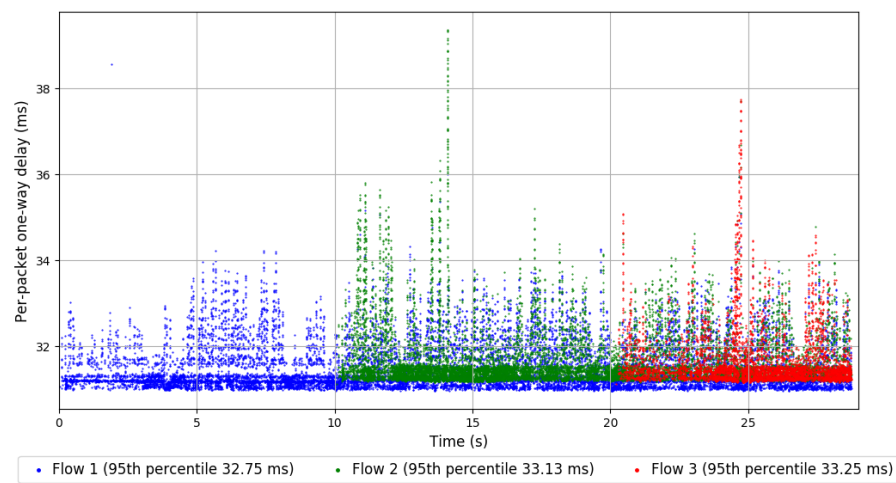
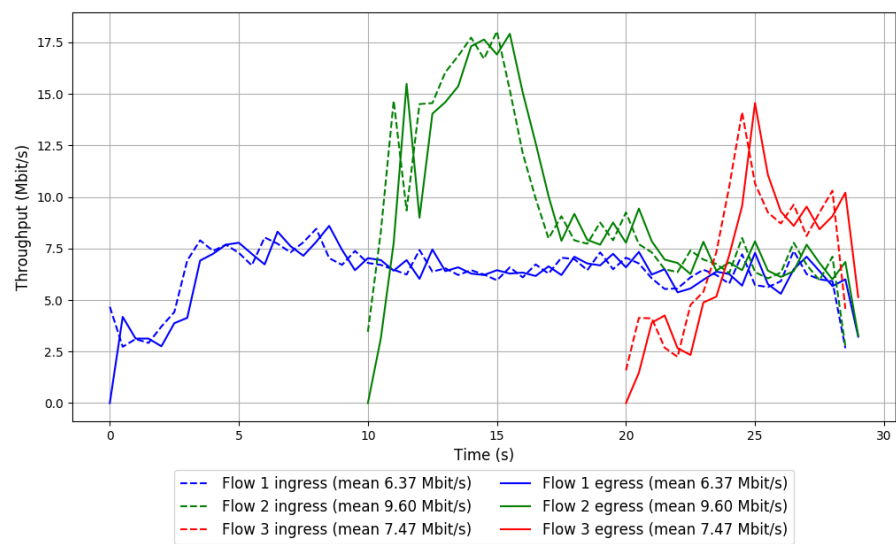


Run 3: Statistics of Indigo-MusesD

Start at: 2019-07-12 06:21:02  
End at: 2019-07-12 06:21:32  
Local clock offset: -2.799 ms  
Remote clock offset: -7.336 ms

# Below is generated by plot.py at 2019-07-12 07:57:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 14.82 Mbit/s  
95th percentile per-packet one-way delay: 32.980 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 6.37 Mbit/s  
95th percentile per-packet one-way delay: 32.754 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 9.60 Mbit/s  
95th percentile per-packet one-way delay: 33.135 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 7.47 Mbit/s  
95th percentile per-packet one-way delay: 33.252 ms  
Loss rate: 0.02%

Run 3: Report of Indigo-MusesD — Data Link

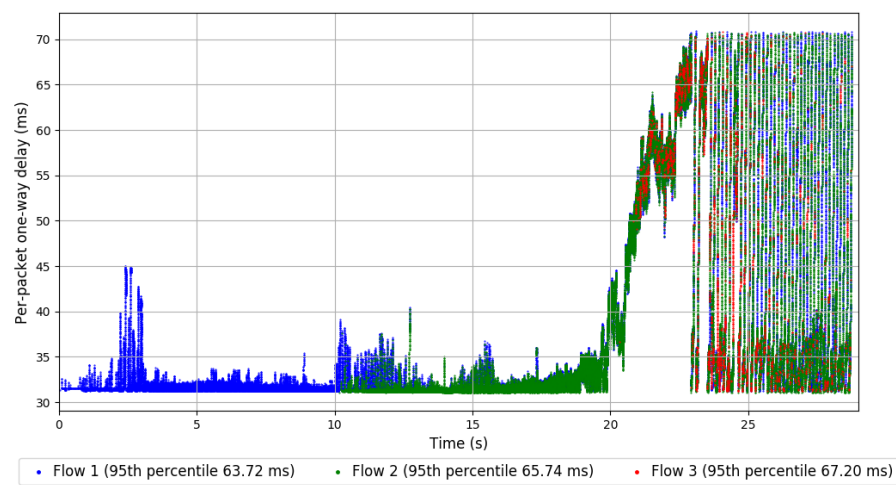
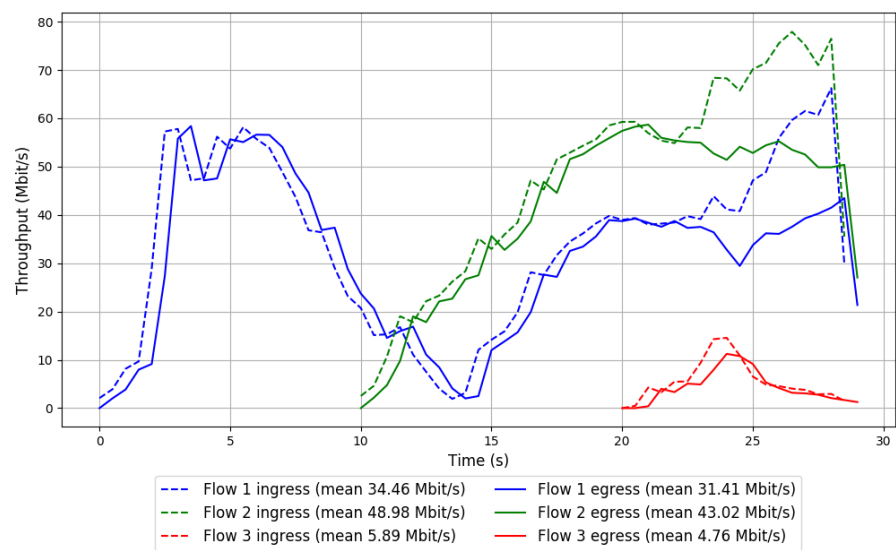


Run 4: Statistics of Indigo-MusesD

Start at: 2019-07-12 07:02:46  
End at: 2019-07-12 07:03:16  
Local clock offset: 0.075 ms  
Remote clock offset: -7.191 ms

# Below is generated by plot.py at 2019-07-12 07:57:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 60.64 Mbit/s  
95th percentile per-packet one-way delay: 65.044 ms  
Loss rate: 10.59%  
-- Flow 1:  
Average throughput: 31.41 Mbit/s  
95th percentile per-packet one-way delay: 63.715 ms  
Loss rate: 8.80%  
-- Flow 2:  
Average throughput: 43.02 Mbit/s  
95th percentile per-packet one-way delay: 65.741 ms  
Loss rate: 12.08%  
-- Flow 3:  
Average throughput: 4.76 Mbit/s  
95th percentile per-packet one-way delay: 67.199 ms  
Loss rate: 19.09%

Run 4: Report of Indigo-MusesD — Data Link



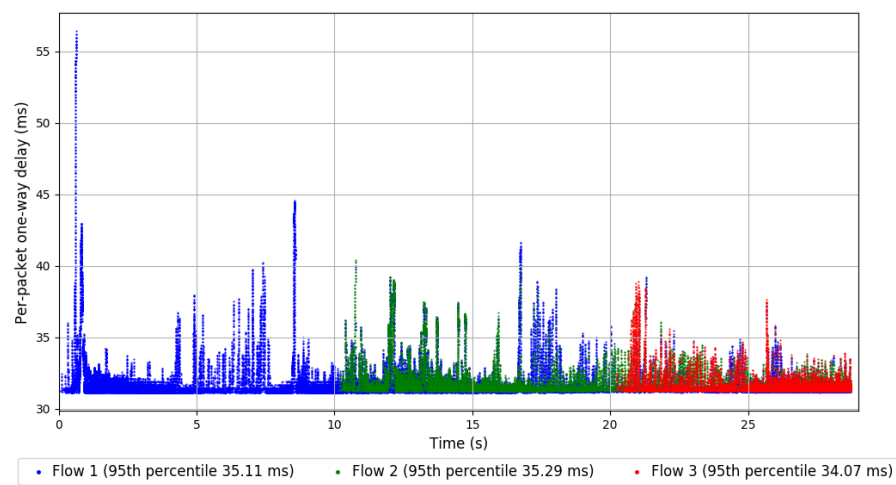
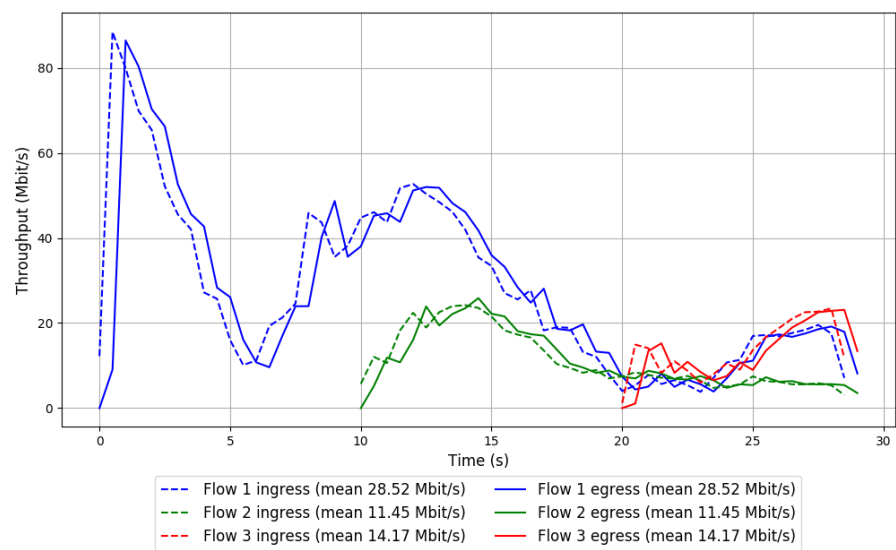


Run 5: Statistics of Indigo-MusesD

Start at: 2019-07-12 07:41:54  
End at: 2019-07-12 07:42:24  
Local clock offset: -0.053 ms  
Remote clock offset: -7.374 ms

# Below is generated by plot.py at 2019-07-12 07:57:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 40.17 Mbit/s  
95th percentile per-packet one-way delay: 35.023 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 28.52 Mbit/s  
95th percentile per-packet one-way delay: 35.111 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 11.45 Mbit/s  
95th percentile per-packet one-way delay: 35.291 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 14.17 Mbit/s  
95th percentile per-packet one-way delay: 34.071 ms  
Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link

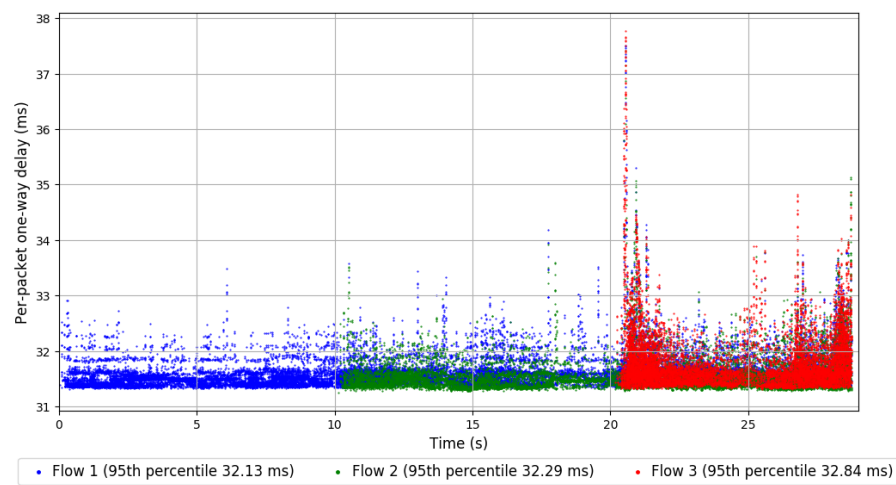
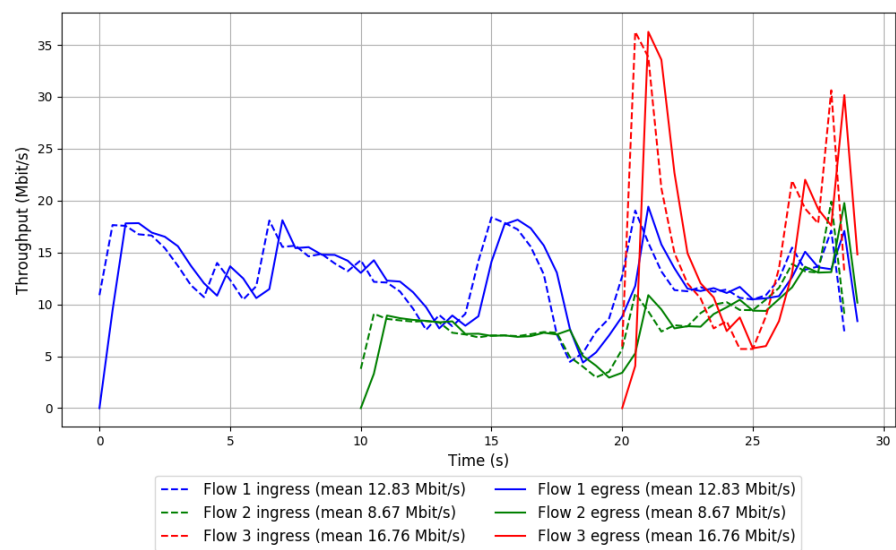


Run 1: Statistics of Indigo-MusesT

Start at: 2019-07-12 04:16:40  
End at: 2019-07-12 04:17:10  
Local clock offset: -0.214 ms  
Remote clock offset: -7.242 ms

# Below is generated by plot.py at 2019-07-12 07:57:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 23.45 Mbit/s  
95th percentile per-packet one-way delay: 32.342 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 12.83 Mbit/s  
95th percentile per-packet one-way delay: 32.131 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 8.67 Mbit/s  
95th percentile per-packet one-way delay: 32.288 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 16.76 Mbit/s  
95th percentile per-packet one-way delay: 32.835 ms  
Loss rate: 0.00%

Run 1: Report of Indigo-MusesT — Data Link

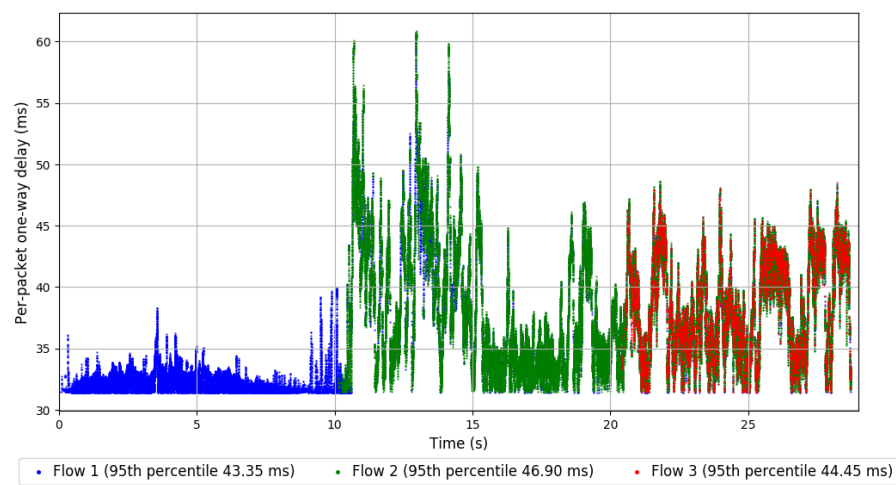
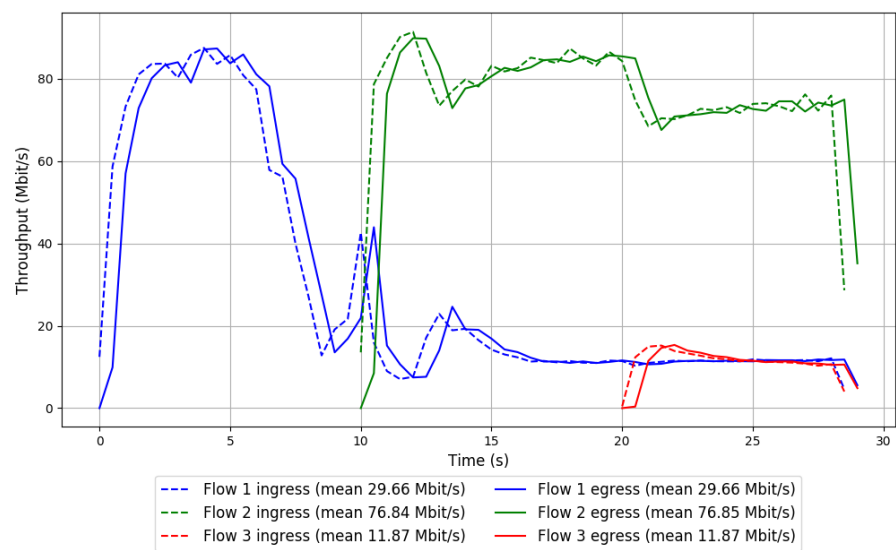


Run 2: Statistics of Indigo-MusesT

Start at: 2019-07-12 05:04:47  
End at: 2019-07-12 05:05:17  
Local clock offset: -3.369 ms  
Remote clock offset: -8.705 ms

# Below is generated by plot.py at 2019-07-12 07:58:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.05 Mbit/s  
95th percentile per-packet one-way delay: 45.809 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 29.66 Mbit/s  
95th percentile per-packet one-way delay: 43.353 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 76.85 Mbit/s  
95th percentile per-packet one-way delay: 46.897 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 11.87 Mbit/s  
95th percentile per-packet one-way delay: 44.452 ms  
Loss rate: 0.00%

Run 2: Report of Indigo-MusesT — Data Link

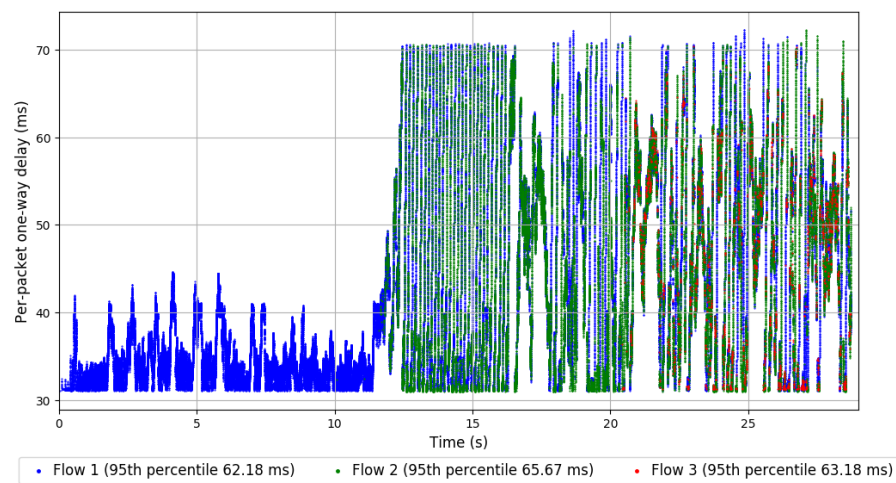
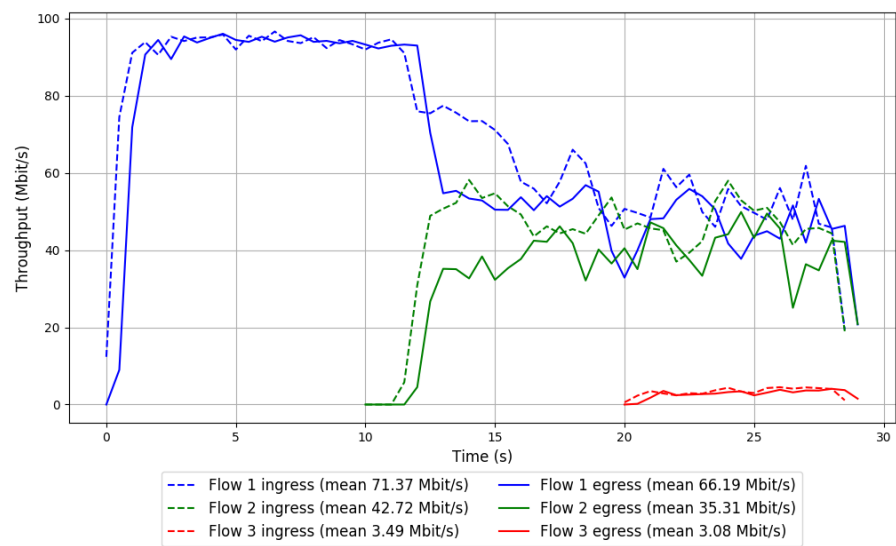


Run 3: Statistics of Indigo-MusesT

Start at: 2019-07-12 05:51:44  
End at: 2019-07-12 05:52:14  
Local clock offset: -3.016 ms  
Remote clock offset: -8.915 ms

# Below is generated by plot.py at 2019-07-12 07:58:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.03 Mbit/s  
95th percentile per-packet one-way delay: 63.465 ms  
Loss rate: 10.03%  
-- Flow 1:  
Average throughput: 66.19 Mbit/s  
95th percentile per-packet one-way delay: 62.177 ms  
Loss rate: 7.19%  
-- Flow 2:  
Average throughput: 35.31 Mbit/s  
95th percentile per-packet one-way delay: 65.670 ms  
Loss rate: 17.27%  
-- Flow 3:  
Average throughput: 3.08 Mbit/s  
95th percentile per-packet one-way delay: 63.178 ms  
Loss rate: 11.51%

Run 3: Report of Indigo-MusesT — Data Link



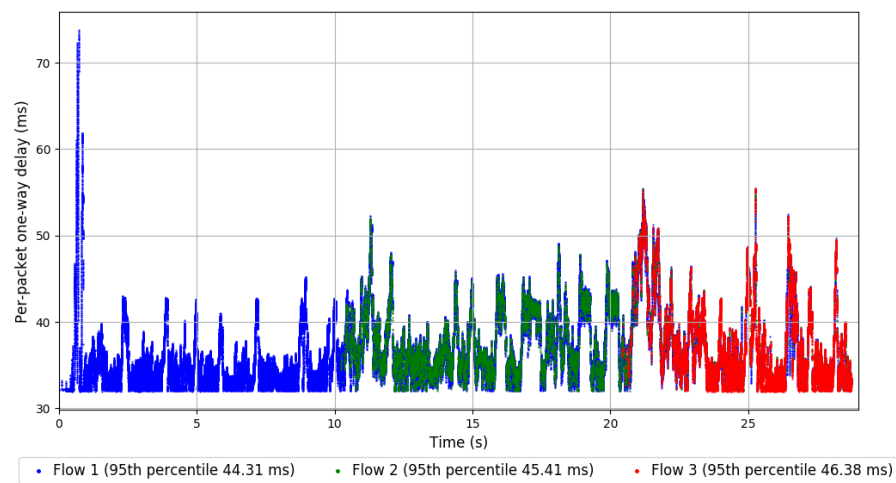
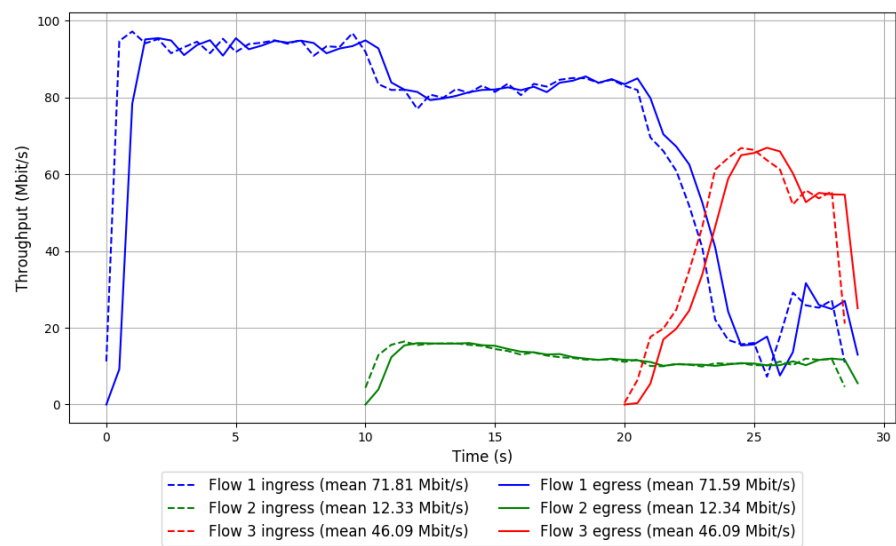


Run 4: Statistics of Indigo-MusesT

Start at: 2019-07-12 06:36:03  
End at: 2019-07-12 06:36:33  
Local clock offset: -0.982 ms  
Remote clock offset: -6.942 ms

# Below is generated by plot.py at 2019-07-12 07:58:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.02 Mbit/s  
95th percentile per-packet one-way delay: 44.668 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 71.59 Mbit/s  
95th percentile per-packet one-way delay: 44.306 ms  
Loss rate: 0.31%  
-- Flow 2:  
Average throughput: 12.34 Mbit/s  
95th percentile per-packet one-way delay: 45.405 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 46.09 Mbit/s  
95th percentile per-packet one-way delay: 46.375 ms  
Loss rate: 0.00%

Run 4: Report of Indigo-MusesT — Data Link

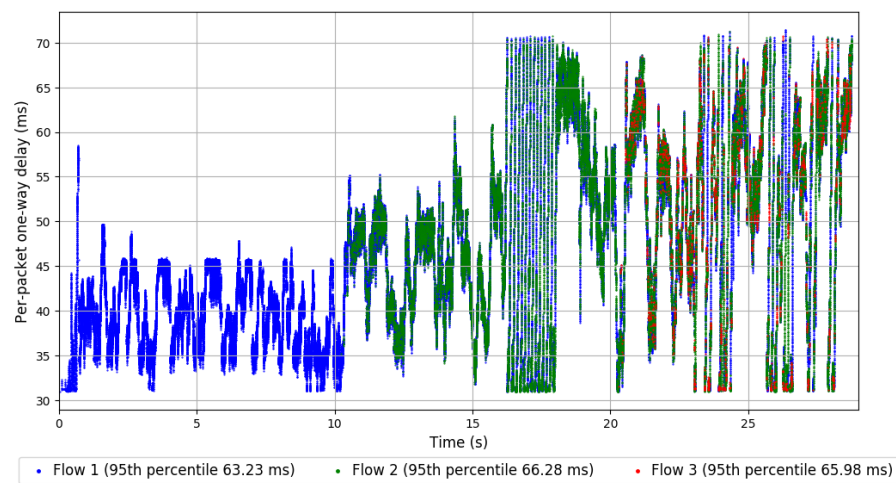
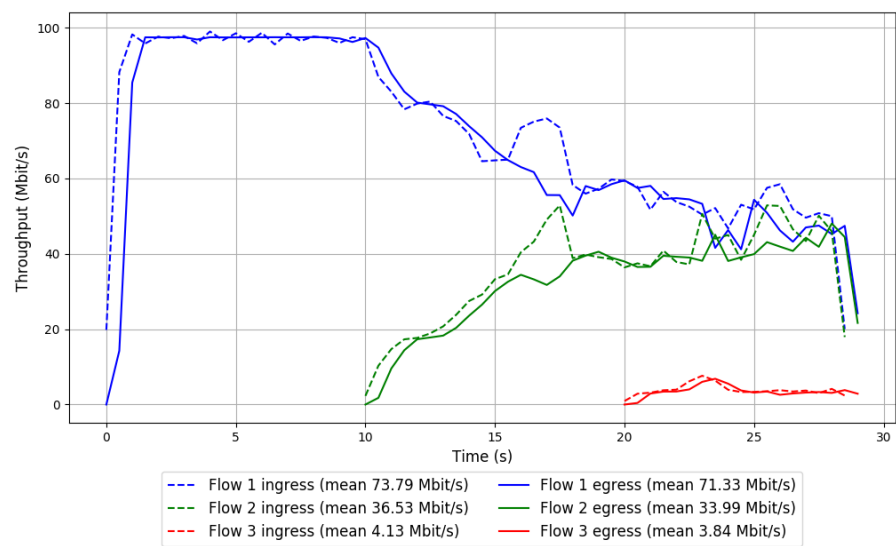


Run 5: Statistics of Indigo-MusesT

Start at: 2019-07-12 07:16:47  
End at: 2019-07-12 07:17:17  
Local clock offset: -1.351 ms  
Remote clock offset: -7.334 ms

# Below is generated by plot.py at 2019-07-12 07:58:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.36 Mbit/s  
95th percentile per-packet one-way delay: 64.502 ms  
Loss rate: 4.17%  
-- Flow 1:  
Average throughput: 71.33 Mbit/s  
95th percentile per-packet one-way delay: 63.234 ms  
Loss rate: 3.27%  
-- Flow 2:  
Average throughput: 33.99 Mbit/s  
95th percentile per-packet one-way delay: 66.279 ms  
Loss rate: 6.89%  
-- Flow 3:  
Average throughput: 3.84 Mbit/s  
95th percentile per-packet one-way delay: 65.983 ms  
Loss rate: 6.75%

Run 5: Report of Indigo-MusesT — Data Link

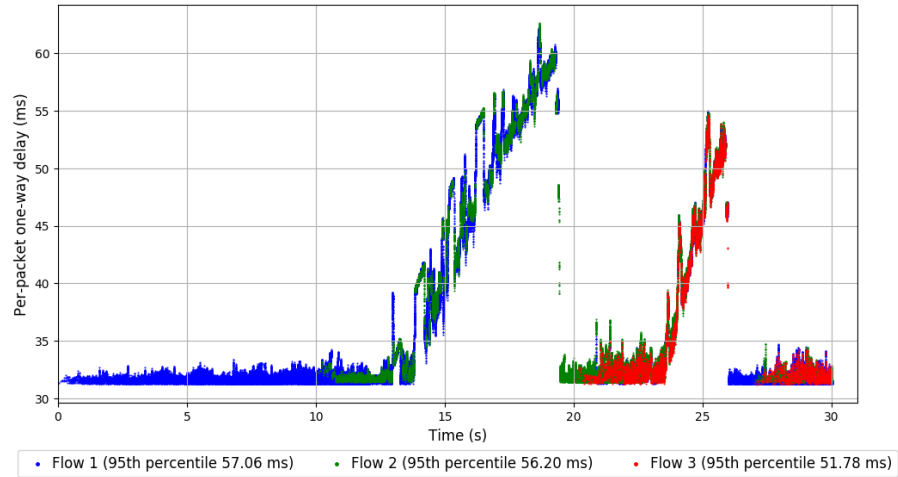
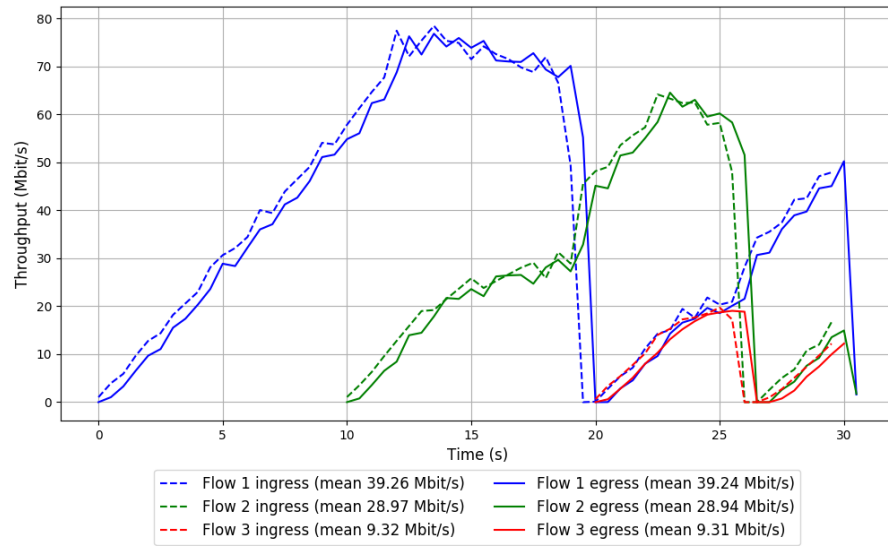


Run 1: Statistics of LEDBAT

Start at: 2019-07-12 04:12:24  
End at: 2019-07-12 04:12:54  
Local clock offset: -0.224 ms  
Remote clock offset: -7.388 ms

# Below is generated by plot.py at 2019-07-12 07:58:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 61.60 Mbit/s  
95th percentile per-packet one-way delay: 56.503 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 39.24 Mbit/s  
95th percentile per-packet one-way delay: 57.065 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 28.94 Mbit/s  
95th percentile per-packet one-way delay: 56.197 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 9.31 Mbit/s  
95th percentile per-packet one-way delay: 51.780 ms  
Loss rate: 0.10%

# Run 1: Report of LEDBAT — Data Link

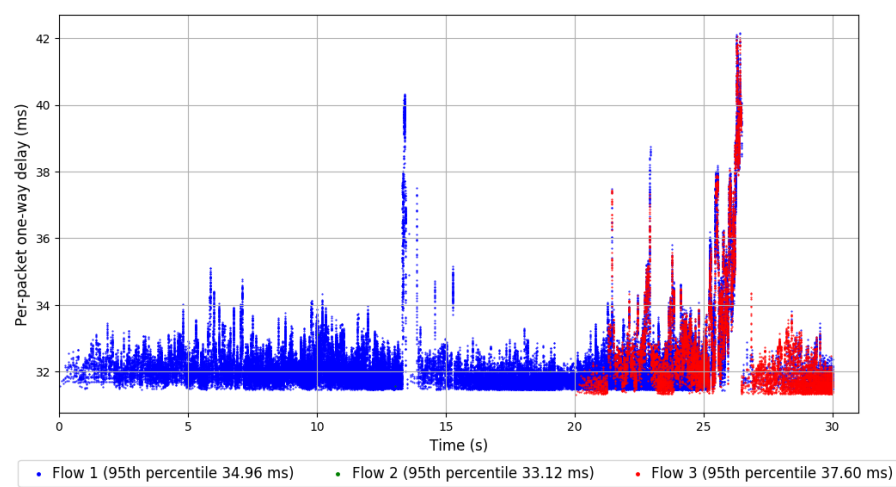
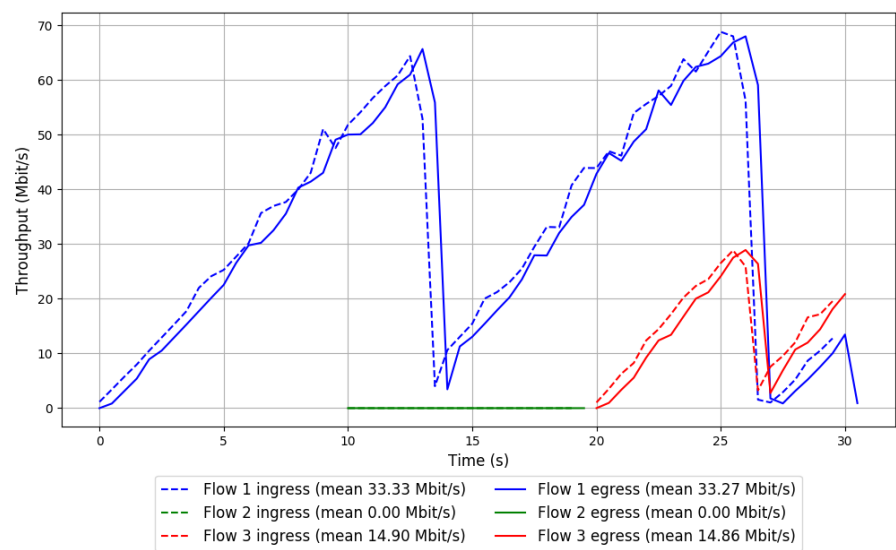


Run 2: Statistics of LEDBAT

Start at: 2019-07-12 05:01:24  
End at: 2019-07-12 05:01:54  
Local clock offset: -3.046 ms  
Remote clock offset: -8.595 ms

# Below is generated by plot.py at 2019-07-12 07:58:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 38.20 Mbit/s  
95th percentile per-packet one-way delay: 35.511 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 33.27 Mbit/s  
95th percentile per-packet one-way delay: 34.957 ms  
Loss rate: 0.17%  
-- Flow 2:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 33.120 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 14.86 Mbit/s  
95th percentile per-packet one-way delay: 37.601 ms  
Loss rate: 0.26%

Run 2: Report of LEDBAT — Data Link





Run 3: Statistics of LEDBAT

Start at: 2019-07-12 05:48:08

End at: 2019-07-12 05:48:38

Local clock offset: -3.019 ms

Remote clock offset: -8.82 ms

# Below is generated by plot.py at 2019-07-12 07:58:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 66.04 Mbit/s

95th percentile per-packet one-way delay: 58.234 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 50.61 Mbit/s

95th percentile per-packet one-way delay: 57.679 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 14.14 Mbit/s

95th percentile per-packet one-way delay: 59.293 ms

Loss rate: 0.15%

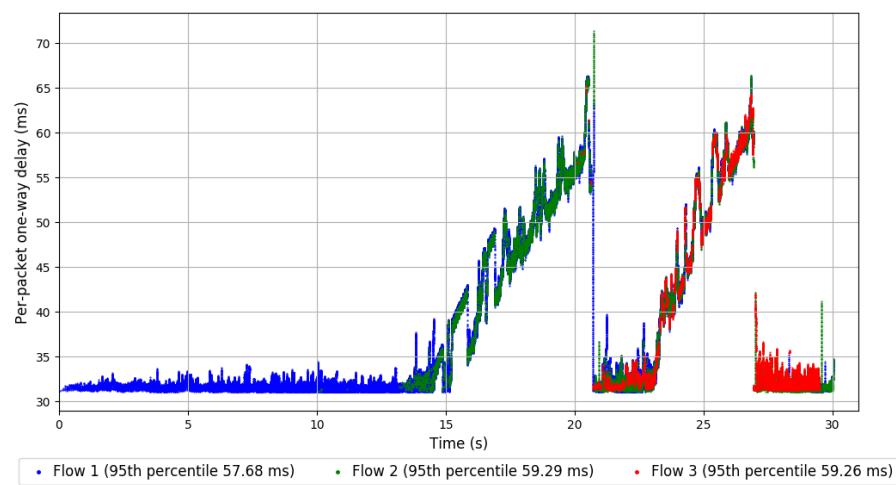
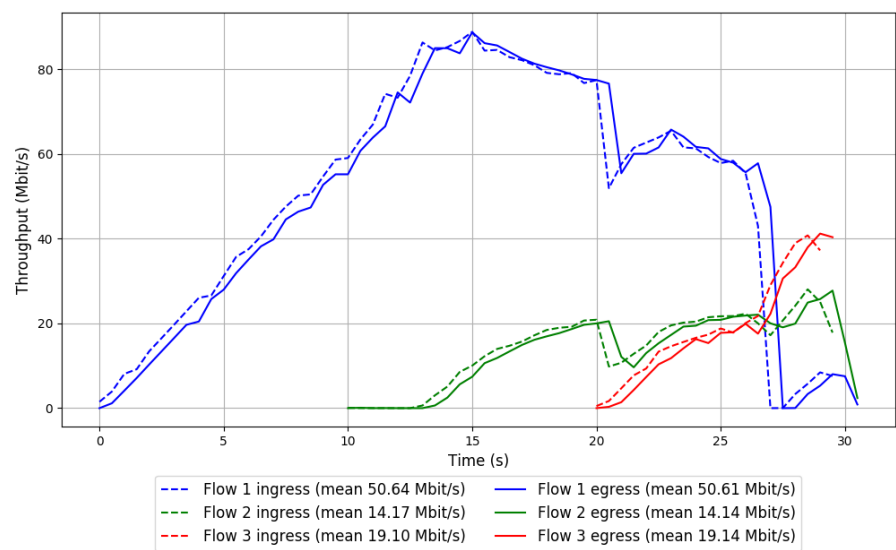
-- Flow 3:

Average throughput: 19.14 Mbit/s

95th percentile per-packet one-way delay: 59.261 ms

Loss rate: 0.05%

Run 3: Report of LEDBAT — Data Link

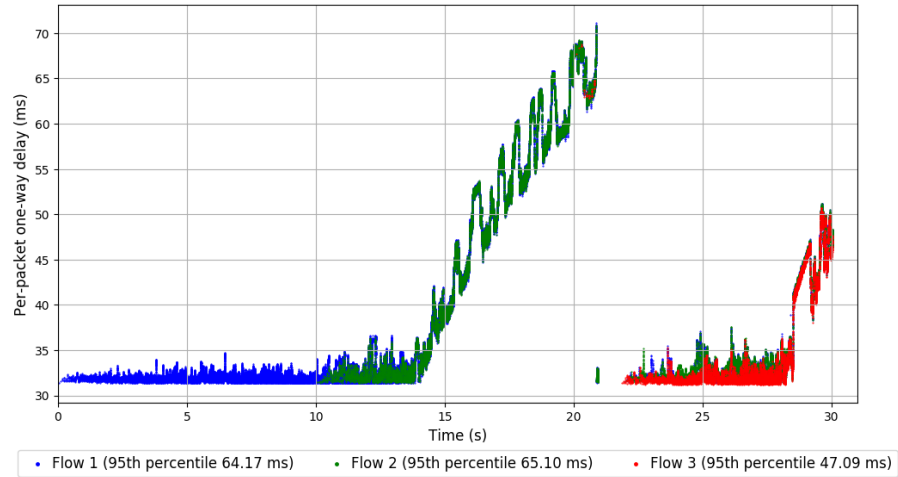
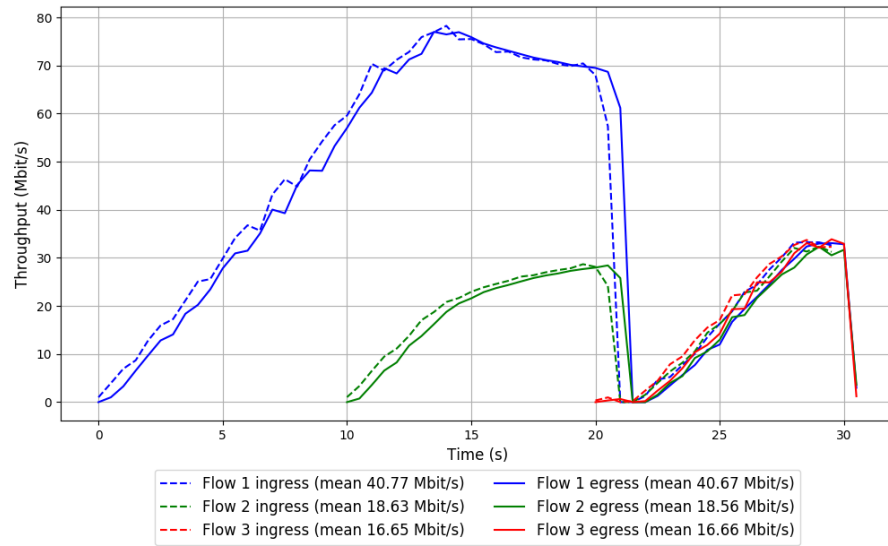


Run 4: Statistics of LEDBAT

Start at: 2019-07-12 06:32:21  
End at: 2019-07-12 06:32:51  
Local clock offset: -1.746 ms  
Remote clock offset: -7.233 ms

# Below is generated by plot.py at 2019-07-12 07:58:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 58.56 Mbit/s  
95th percentile per-packet one-way delay: 64.104 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 40.67 Mbit/s  
95th percentile per-packet one-way delay: 64.175 ms  
Loss rate: 0.19%  
-- Flow 2:  
Average throughput: 18.56 Mbit/s  
95th percentile per-packet one-way delay: 65.100 ms  
Loss rate: 0.29%  
-- Flow 3:  
Average throughput: 16.66 Mbit/s  
95th percentile per-packet one-way delay: 47.095 ms  
Loss rate: 0.10%

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

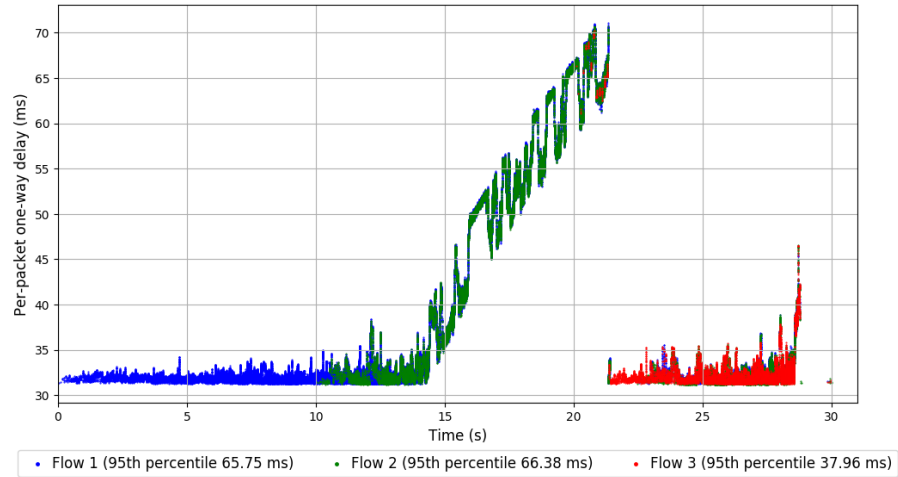
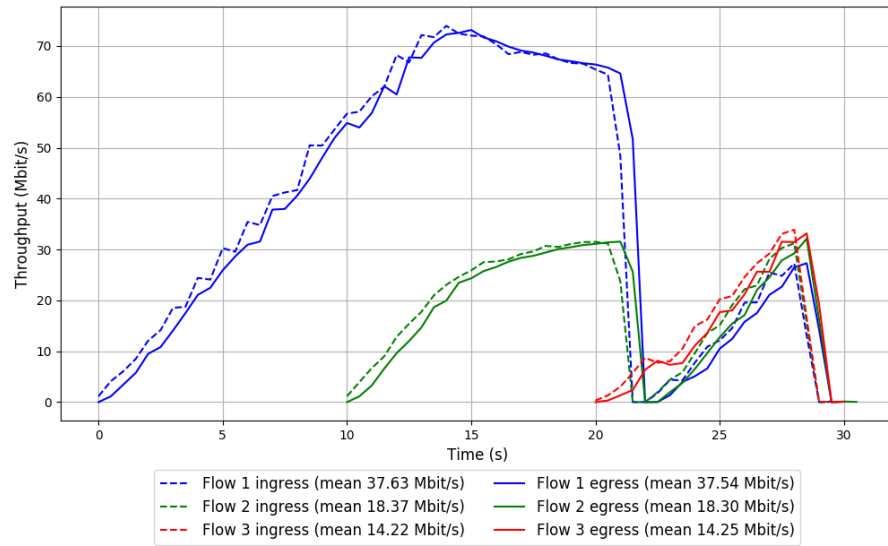


Run 5: Statistics of LEDBAT

Start at: 2019-07-12 07:13:29  
End at: 2019-07-12 07:13:59  
Local clock offset: -1.167 ms  
Remote clock offset: -7.172 ms

# Below is generated by plot.py at 2019-07-12 07:58:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 54.39 Mbit/s  
95th percentile per-packet one-way delay: 65.760 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 37.54 Mbit/s  
95th percentile per-packet one-way delay: 65.746 ms  
Loss rate: 0.23%  
-- Flow 2:  
Average throughput: 18.30 Mbit/s  
95th percentile per-packet one-way delay: 66.379 ms  
Loss rate: 0.39%  
-- Flow 3:  
Average throughput: 14.25 Mbit/s  
95th percentile per-packet one-way delay: 37.956 ms  
Loss rate: 0.17%

## Run 5: Report of LEDBAT — Data Link

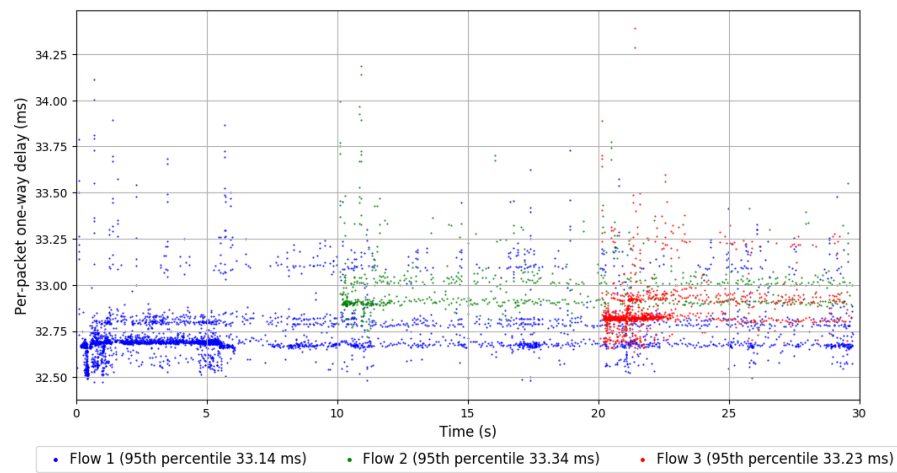
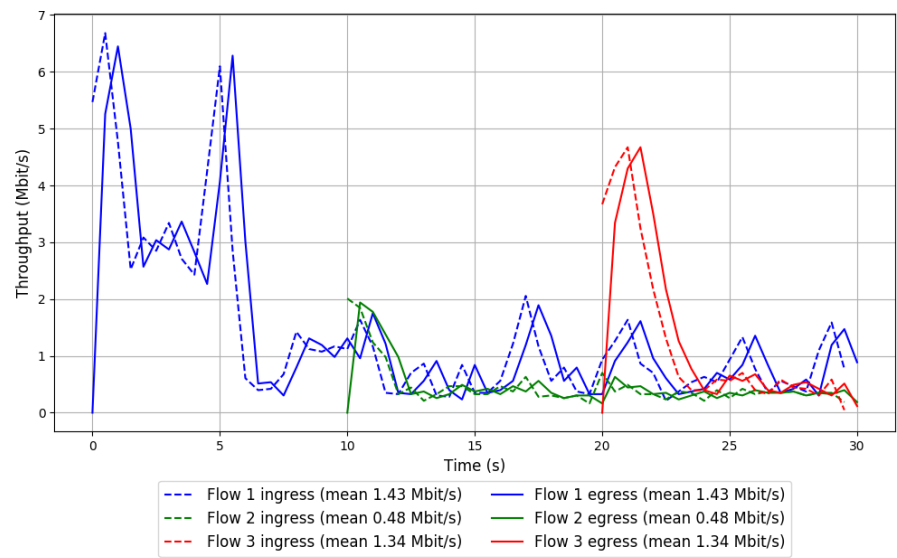


Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-07-12 04:56:10  
End at: 2019-07-12 04:56:40  
Local clock offset: -2.697 ms  
Remote clock offset: -7.313 ms

# Below is generated by plot.py at 2019-07-12 07:58:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.18 Mbit/s  
95th percentile per-packet one-way delay: 33.196 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.43 Mbit/s  
95th percentile per-packet one-way delay: 33.144 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.48 Mbit/s  
95th percentile per-packet one-way delay: 33.335 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 1.34 Mbit/s  
95th percentile per-packet one-way delay: 33.234 ms  
Loss rate: 0.00%

Run 1: Report of Muses\_DecisionTree — Data Link



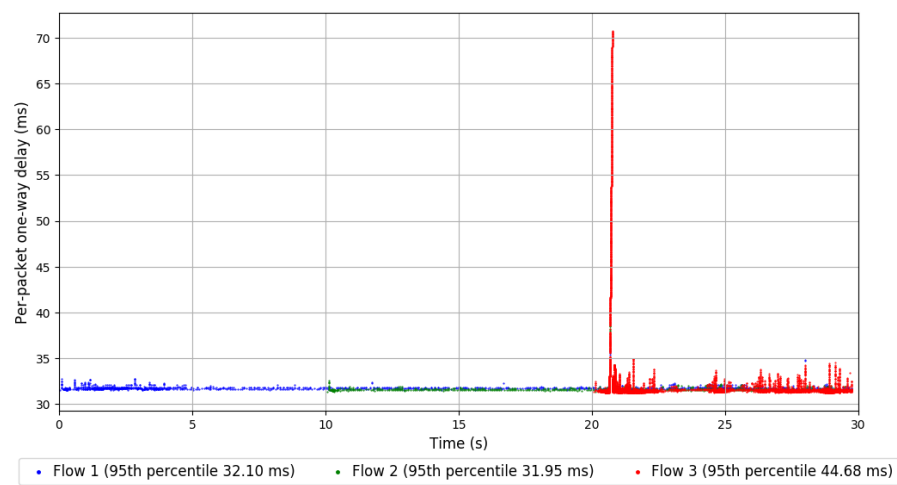
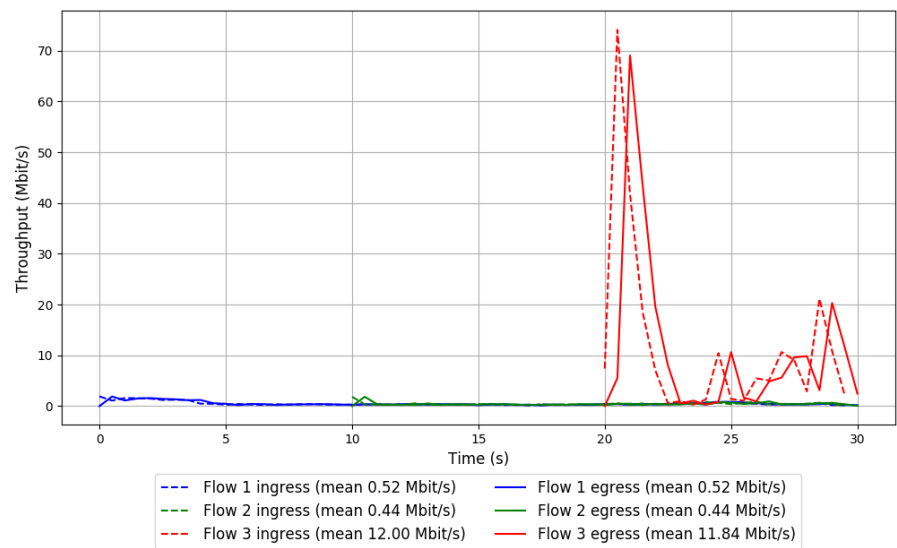


Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-07-12 05:42:50  
End at: 2019-07-12 05:43:20  
Local clock offset: -3.166 ms  
Remote clock offset: -8.863 ms

# Below is generated by plot.py at 2019-07-12 07:58:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.66 Mbit/s  
95th percentile per-packet one-way delay: 40.577 ms  
Loss rate: 1.15%  
-- Flow 1:  
Average throughput: 0.52 Mbit/s  
95th percentile per-packet one-way delay: 32.096 ms  
Loss rate: 0.30%  
-- Flow 2:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 31.955 ms  
Loss rate: 0.40%  
-- Flow 3:  
Average throughput: 11.84 Mbit/s  
95th percentile per-packet one-way delay: 44.679 ms  
Loss rate: 1.32%

Run 2: Report of Muses\_DecisionTree — Data Link

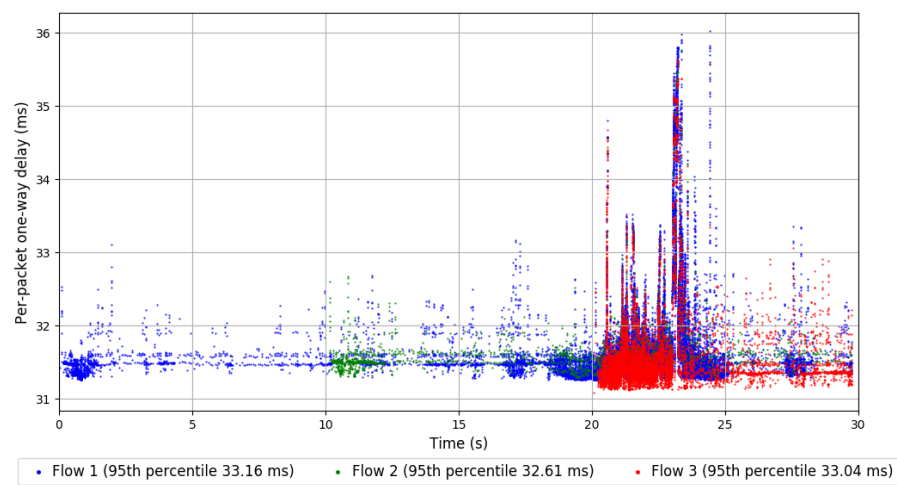
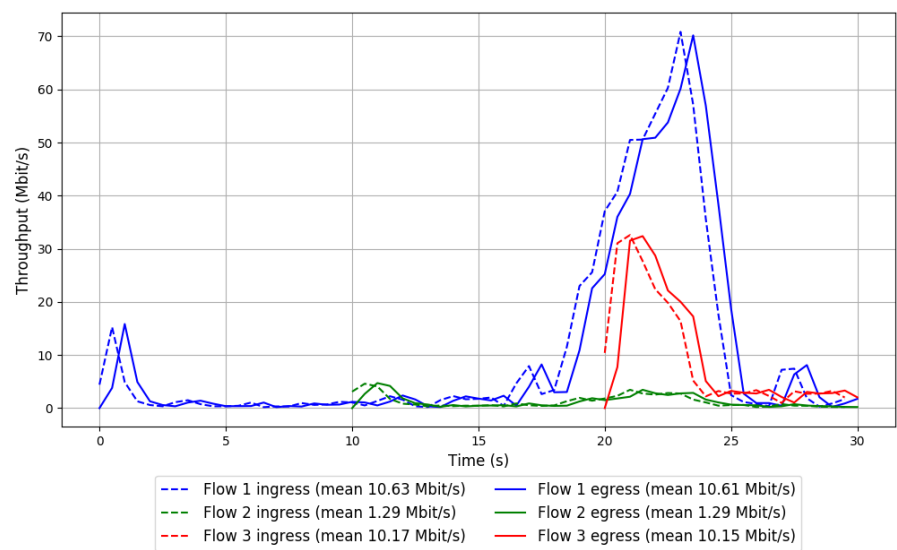


Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-07-12 06:27:03  
End at: 2019-07-12 06:27:33  
Local clock offset: -2.84 ms  
Remote clock offset: -7.078 ms

# Below is generated by plot.py at 2019-07-12 07:58:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 14.78 Mbit/s  
95th percentile per-packet one-way delay: 33.116 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 10.61 Mbit/s  
95th percentile per-packet one-way delay: 33.164 ms  
Loss rate: 0.20%  
-- Flow 2:  
Average throughput: 1.29 Mbit/s  
95th percentile per-packet one-way delay: 32.609 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 10.15 Mbit/s  
95th percentile per-packet one-way delay: 33.043 ms  
Loss rate: 0.17%

Run 3: Report of Muses\_DecisionTree — Data Link

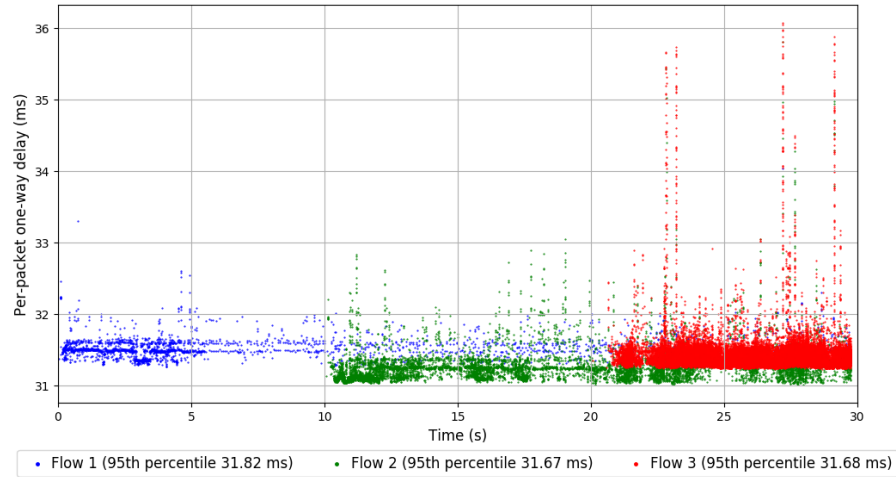
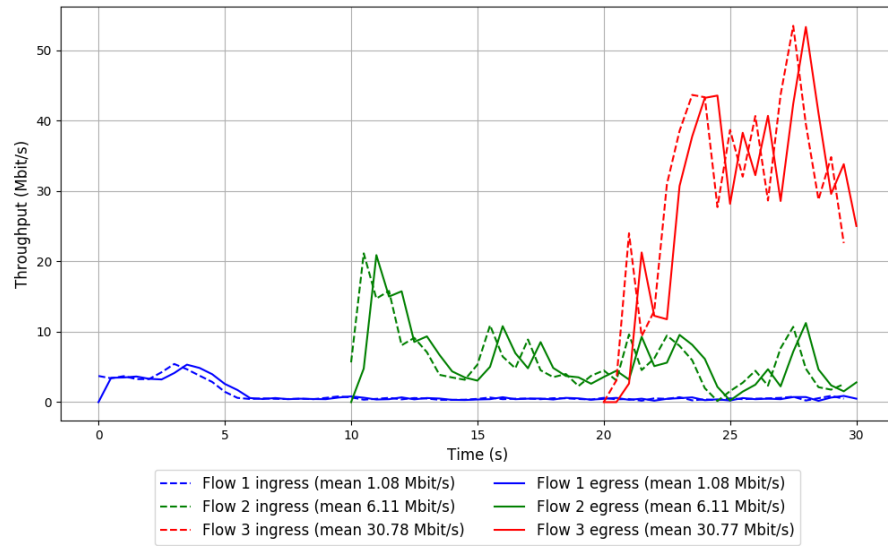


Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-07-12 07:08:16  
End at: 2019-07-12 07:08:46  
Local clock offset: -0.774 ms  
Remote clock offset: -7.245 ms

# Below is generated by plot.py at 2019-07-12 07:58:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 15.15 Mbit/s  
95th percentile per-packet one-way delay: 31.695 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 1.08 Mbit/s  
95th percentile per-packet one-way delay: 31.819 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 6.11 Mbit/s  
95th percentile per-packet one-way delay: 31.669 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 30.77 Mbit/s  
95th percentile per-packet one-way delay: 31.680 ms  
Loss rate: 0.02%

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

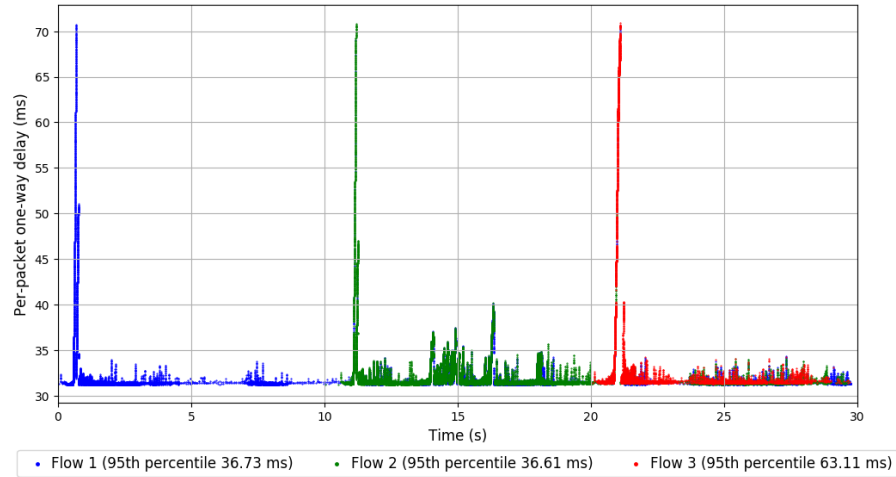
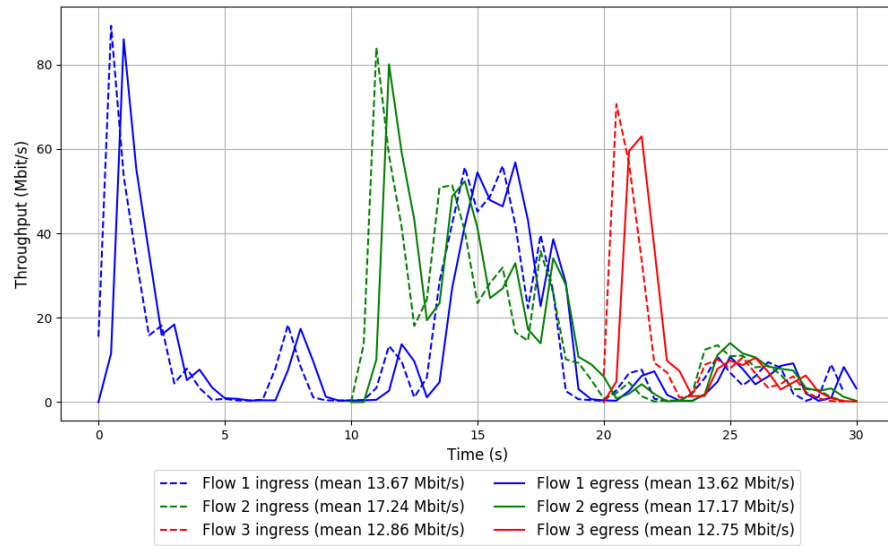


Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-07-12 07:47:11  
End at: 2019-07-12 07:47:41  
Local clock offset: 0.231 ms  
Remote clock offset: -7.353 ms

# Below is generated by plot.py at 2019-07-12 07:58:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 29.12 Mbit/s  
95th percentile per-packet one-way delay: 38.776 ms  
Loss rate: 0.45%  
-- Flow 1:  
Average throughput: 13.62 Mbit/s  
95th percentile per-packet one-way delay: 36.728 ms  
Loss rate: 0.36%  
-- Flow 2:  
Average throughput: 17.17 Mbit/s  
95th percentile per-packet one-way delay: 36.610 ms  
Loss rate: 0.41%  
-- Flow 3:  
Average throughput: 12.75 Mbit/s  
95th percentile per-packet one-way delay: 63.113 ms  
Loss rate: 0.82%

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



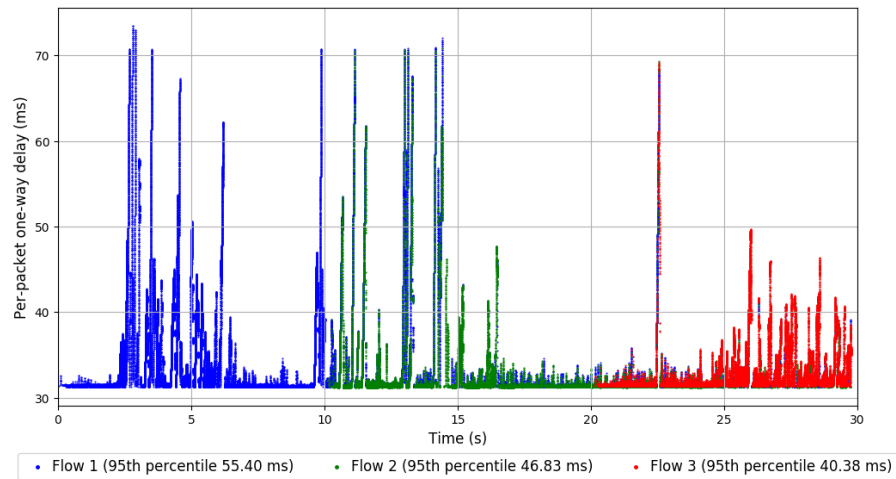
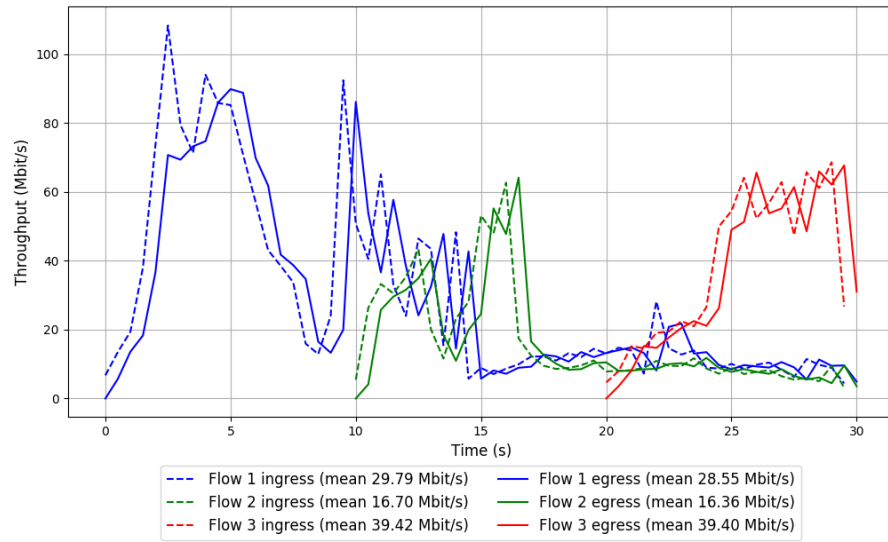


Run 1: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-07-12 04:51:08  
End at: 2019-07-12 04:51:38  
Local clock offset: -2.462 ms  
Remote clock offset: -8.456 ms

# Below is generated by plot.py at 2019-07-12 07:59:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 52.17 Mbit/s  
95th percentile per-packet one-way delay: 50.390 ms  
Loss rate: 2.71%  
-- Flow 1:  
Average throughput: 28.55 Mbit/s  
95th percentile per-packet one-way delay: 55.397 ms  
Loss rate: 4.12%  
-- Flow 2:  
Average throughput: 16.36 Mbit/s  
95th percentile per-packet one-way delay: 46.826 ms  
Loss rate: 2.04%  
-- Flow 3:  
Average throughput: 39.40 Mbit/s  
95th percentile per-packet one-way delay: 40.381 ms  
Loss rate: 0.00%

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

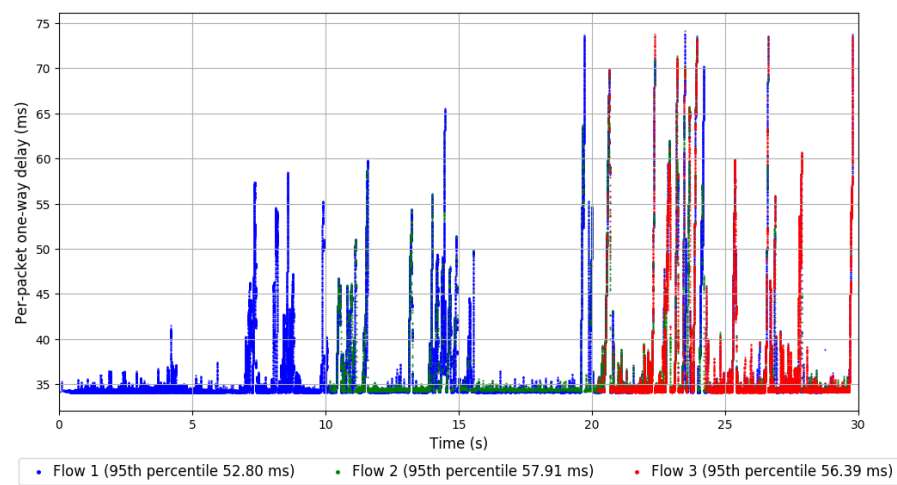
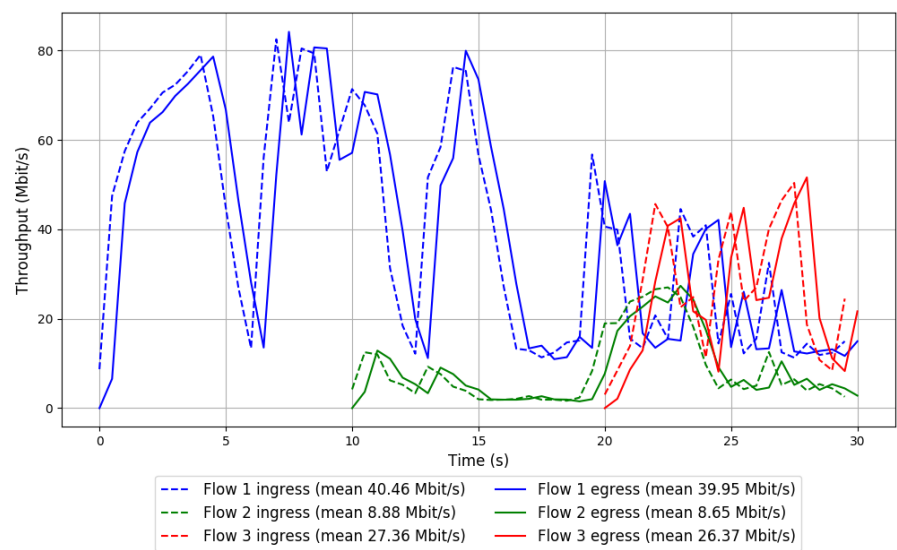


Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-07-12 05:38:23  
End at: 2019-07-12 05:38:53  
Local clock offset: -3.394 ms  
Remote clock offset: -6.128 ms

# Below is generated by plot.py at 2019-07-12 07:59:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 54.22 Mbit/s  
95th percentile per-packet one-way delay: 53.978 ms  
Loss rate: 1.65%  
-- Flow 1:  
Average throughput: 39.95 Mbit/s  
95th percentile per-packet one-way delay: 52.800 ms  
Loss rate: 1.16%  
-- Flow 2:  
Average throughput: 8.65 Mbit/s  
95th percentile per-packet one-way delay: 57.906 ms  
Loss rate: 2.47%  
-- Flow 3:  
Average throughput: 26.37 Mbit/s  
95th percentile per-packet one-way delay: 56.386 ms  
Loss rate: 3.38%

Run 2: Report of Muses\_DecisionTreeH0 — Data Link

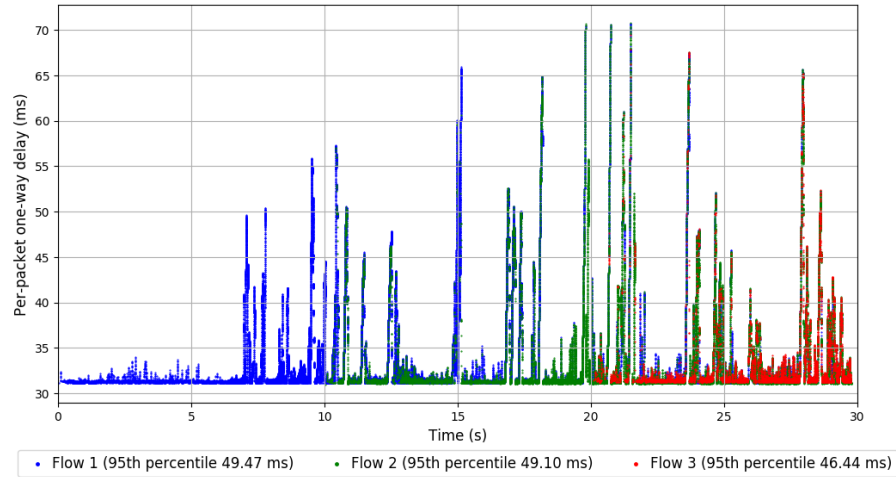
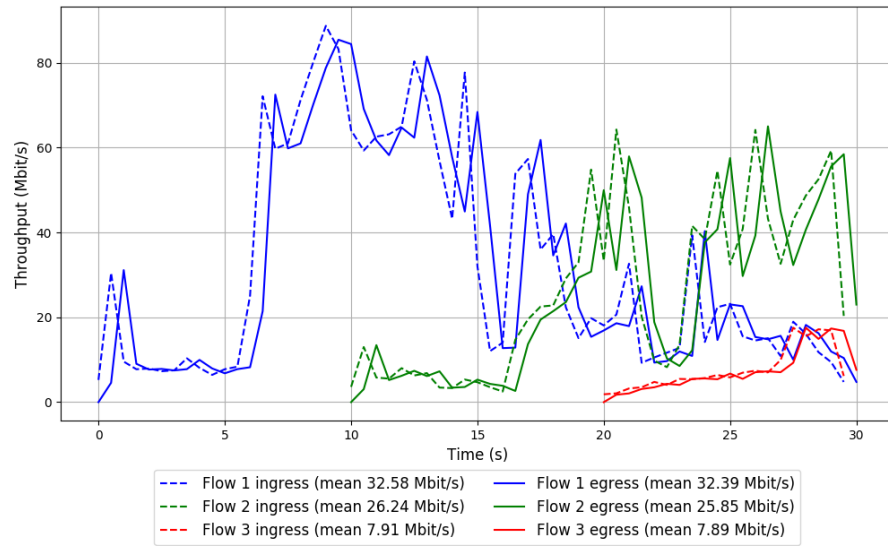


Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-07-12 06:22:24  
End at: 2019-07-12 06:22:54  
Local clock offset: -2.801 ms  
Remote clock offset: -7.261 ms

# Below is generated by plot.py at 2019-07-12 07:59:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 52.05 Mbit/s  
95th percentile per-packet one-way delay: 49.281 ms  
Loss rate: 0.87%  
-- Flow 1:  
Average throughput: 32.39 Mbit/s  
95th percentile per-packet one-way delay: 49.469 ms  
Loss rate: 0.58%  
-- Flow 2:  
Average throughput: 25.85 Mbit/s  
95th percentile per-packet one-way delay: 49.096 ms  
Loss rate: 1.48%  
-- Flow 3:  
Average throughput: 7.89 Mbit/s  
95th percentile per-packet one-way delay: 46.439 ms  
Loss rate: 0.32%

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

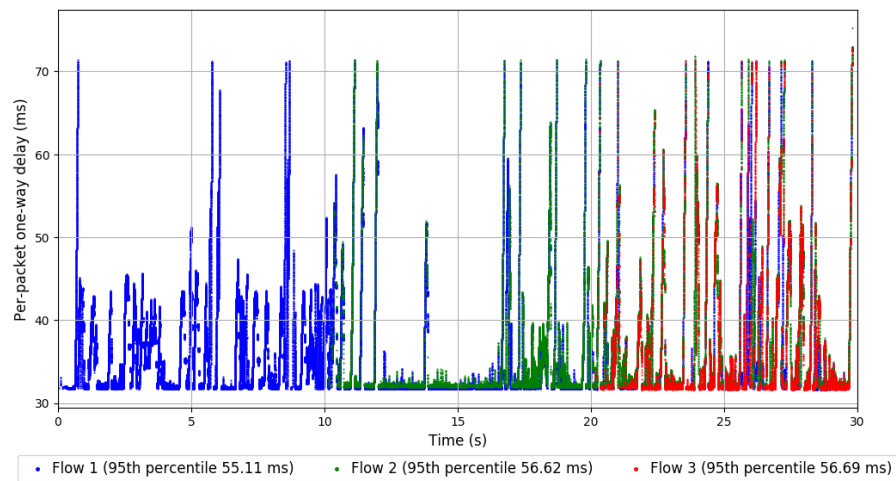
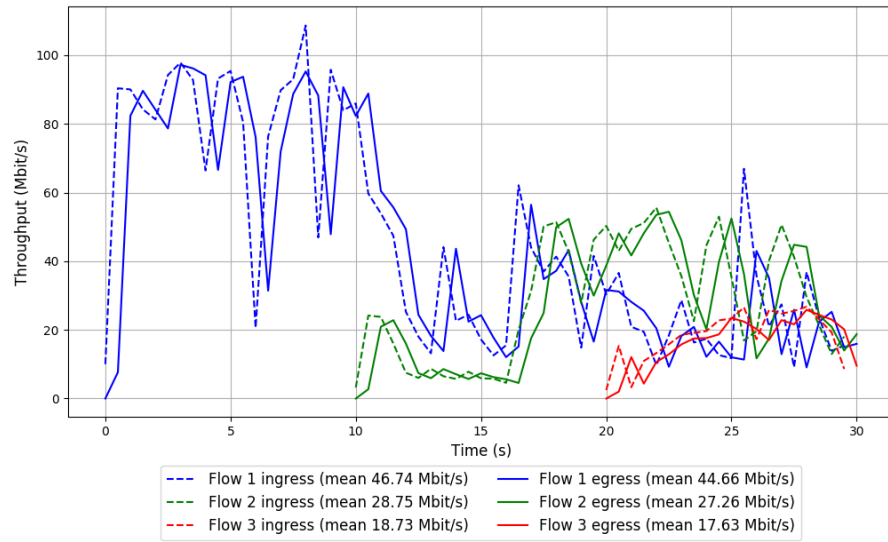


Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-07-12 07:04:18  
End at: 2019-07-12 07:04:48  
Local clock offset: -0.225 ms  
Remote clock offset: -6.535 ms

# Below is generated by plot.py at 2019-07-12 07:59:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.45 Mbit/s  
95th percentile per-packet one-way delay: 55.785 ms  
Loss rate: 4.62%  
-- Flow 1:  
Average throughput: 44.66 Mbit/s  
95th percentile per-packet one-way delay: 55.106 ms  
Loss rate: 4.33%  
-- Flow 2:  
Average throughput: 27.26 Mbit/s  
95th percentile per-packet one-way delay: 56.623 ms  
Loss rate: 5.04%  
-- Flow 3:  
Average throughput: 17.63 Mbit/s  
95th percentile per-packet one-way delay: 56.694 ms  
Loss rate: 5.52%

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



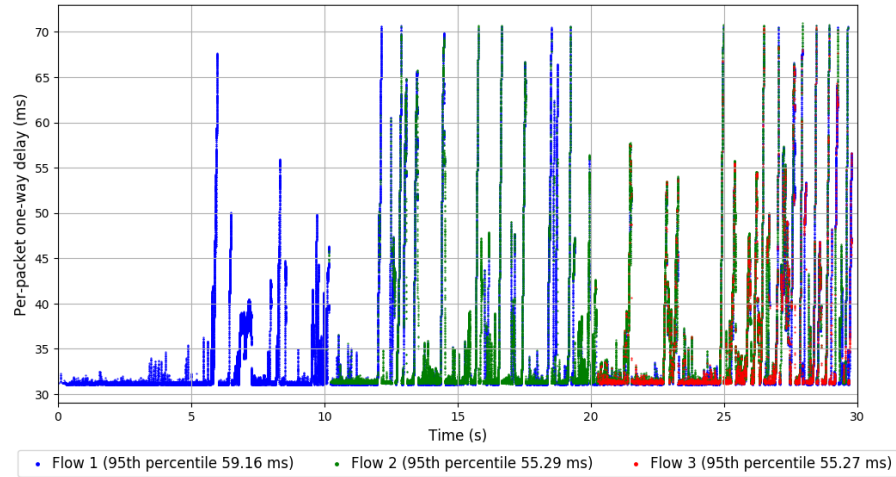
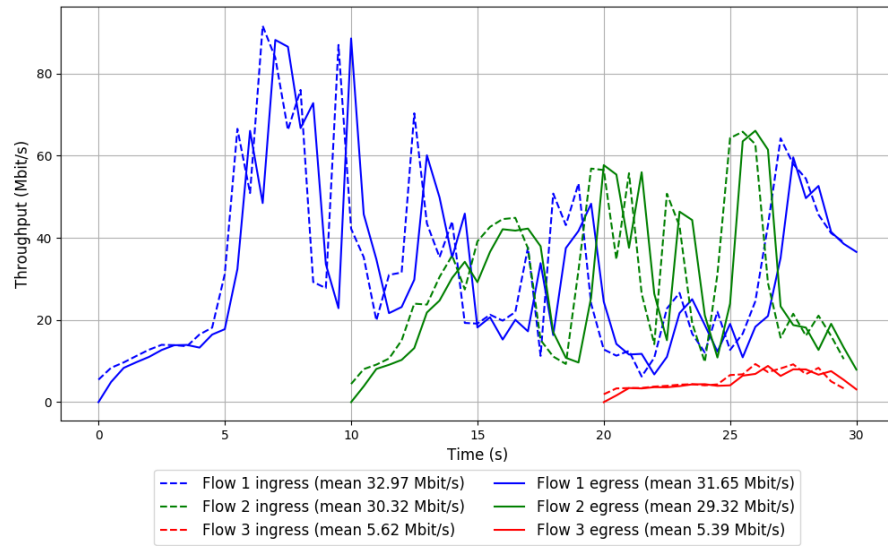


Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-07-12 07:43:29  
End at: 2019-07-12 07:43:59  
Local clock offset: 0.058 ms  
Remote clock offset: -7.457 ms

# Below is generated by plot.py at 2019-07-12 07:59:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 52.67 Mbit/s  
95th percentile per-packet one-way delay: 57.812 ms  
Loss rate: 3.71%  
-- Flow 1:  
Average throughput: 31.65 Mbit/s  
95th percentile per-packet one-way delay: 59.159 ms  
Loss rate: 3.97%  
-- Flow 2:  
Average throughput: 29.32 Mbit/s  
95th percentile per-packet one-way delay: 55.292 ms  
Loss rate: 3.26%  
-- Flow 3:  
Average throughput: 5.39 Mbit/s  
95th percentile per-packet one-way delay: 55.269 ms  
Loss rate: 3.99%

## Run 5: Report of Muses\_DecisionTreeH0 — Data Link



Run 1: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-07-12 04:57:22

End at: 2019-07-12 04:57:52

Local clock offset: -2.724 ms

Remote clock offset: -8.6 ms

# Below is generated by plot.py at 2019-07-12 07:59:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 9.08 Mbit/s

95th percentile per-packet one-way delay: 32.459 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.00 Mbit/s

95th percentile per-packet one-way delay: 32.412 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 31.974 ms

Loss rate: 0.00%

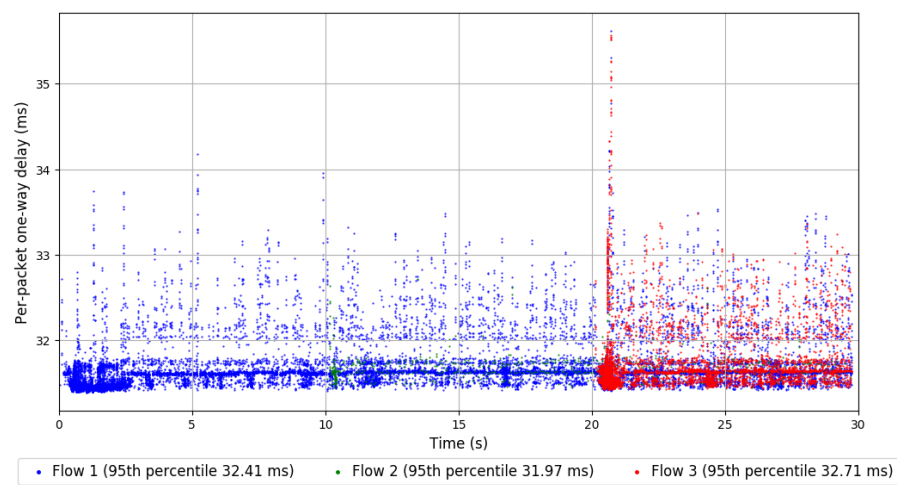
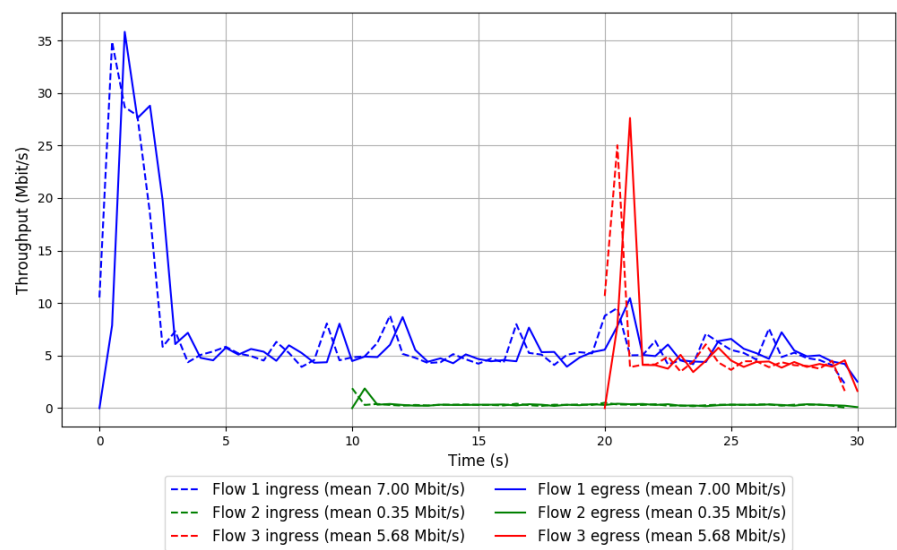
-- Flow 3:

Average throughput: 5.68 Mbit/s

95th percentile per-packet one-way delay: 32.708 ms

Loss rate: 0.00%

Run 1: Report of Muses\_DecisionTreeR0 — Data Link

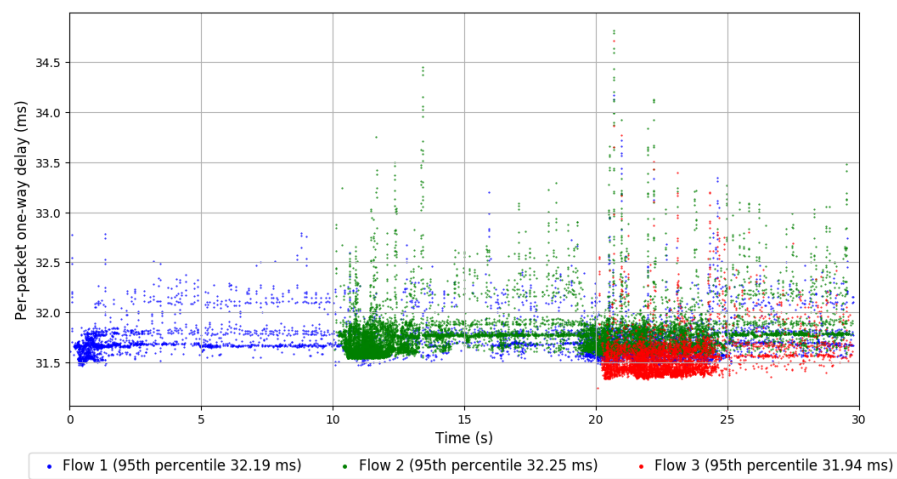
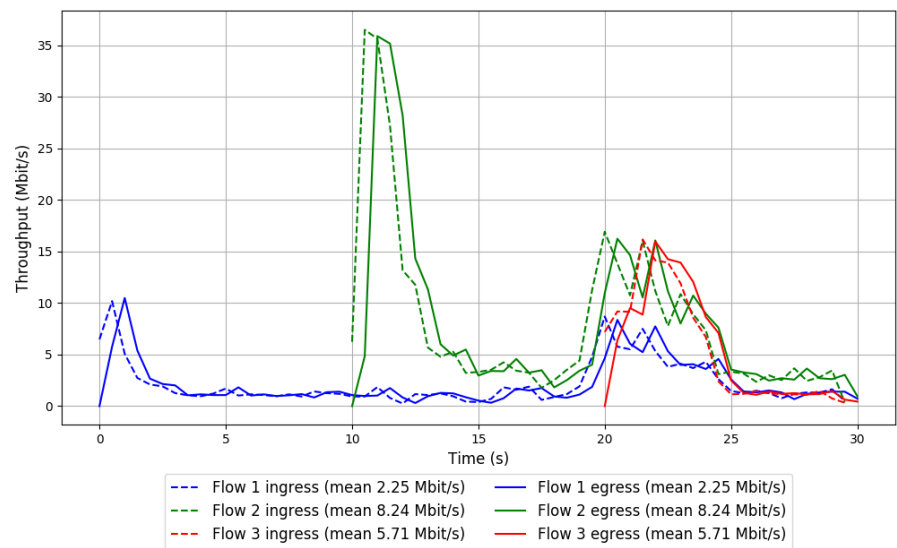


Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-07-12 05:44:05  
End at: 2019-07-12 05:44:35  
Local clock offset: -3.147 ms  
Remote clock offset: -8.787 ms

# Below is generated by plot.py at 2019-07-12 07:59:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 9.56 Mbit/s  
95th percentile per-packet one-way delay: 32.187 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.25 Mbit/s  
95th percentile per-packet one-way delay: 32.185 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 8.24 Mbit/s  
95th percentile per-packet one-way delay: 32.254 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 5.71 Mbit/s  
95th percentile per-packet one-way delay: 31.942 ms  
Loss rate: 0.00%

Run 2: Report of Muses\_DecisionTreeR0 — Data Link

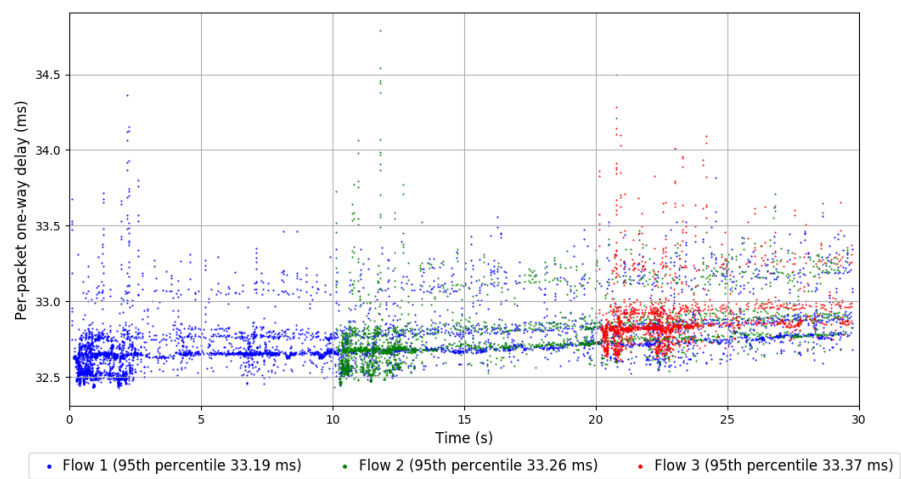
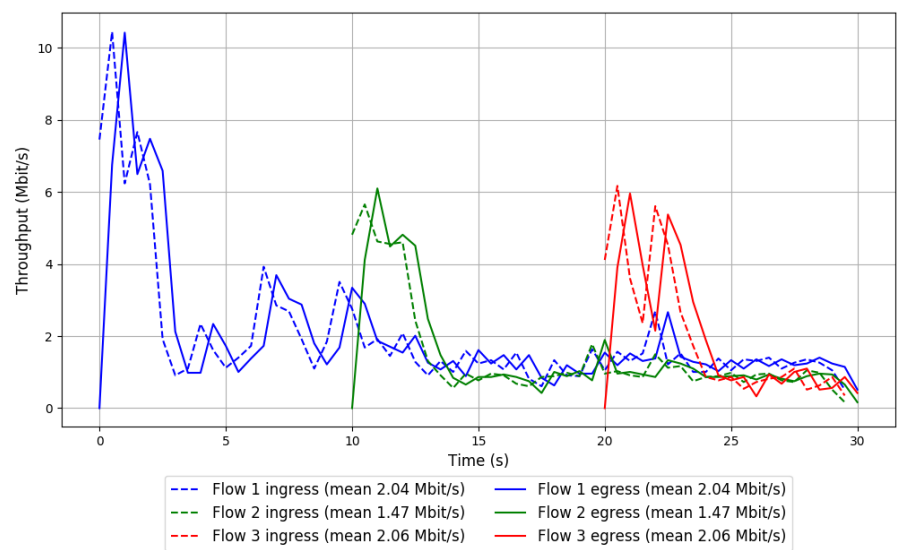


Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-07-12 06:28:22  
End at: 2019-07-12 06:28:52  
Local clock offset: -2.787 ms  
Remote clock offset: -5.791 ms

# Below is generated by plot.py at 2019-07-12 07:59:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.68 Mbit/s  
95th percentile per-packet one-way delay: 33.249 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.04 Mbit/s  
95th percentile per-packet one-way delay: 33.193 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.47 Mbit/s  
95th percentile per-packet one-way delay: 33.258 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 2.06 Mbit/s  
95th percentile per-packet one-way delay: 33.372 ms  
Loss rate: 0.00%

Run 3: Report of Muses\_DecisionTreeR0 — Data Link





Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-07-12 07:09:30

End at: 2019-07-12 07:10:00

Local clock offset: -0.902 ms

Remote clock offset: -7.28 ms

# Below is generated by plot.py at 2019-07-12 07:59:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 12.47 Mbit/s

95th percentile per-packet one-way delay: 31.673 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 31.655 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 12.41 Mbit/s

95th percentile per-packet one-way delay: 31.683 ms

Loss rate: 0.00%

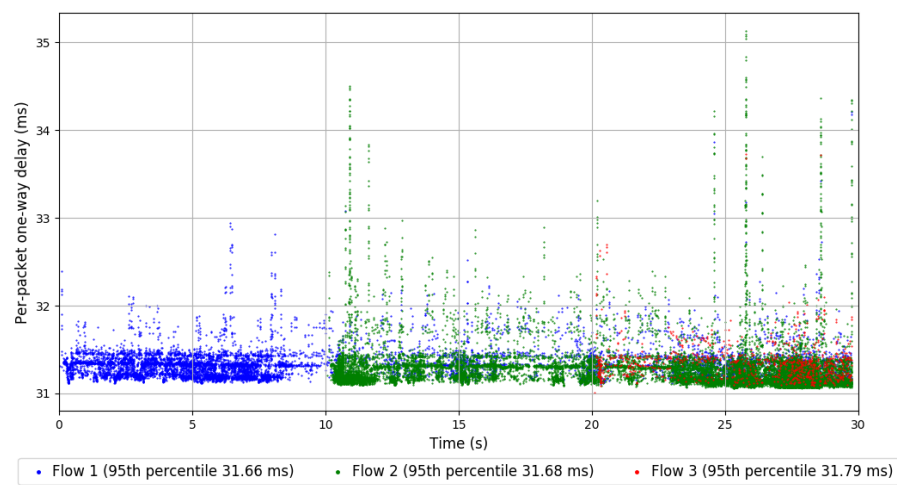
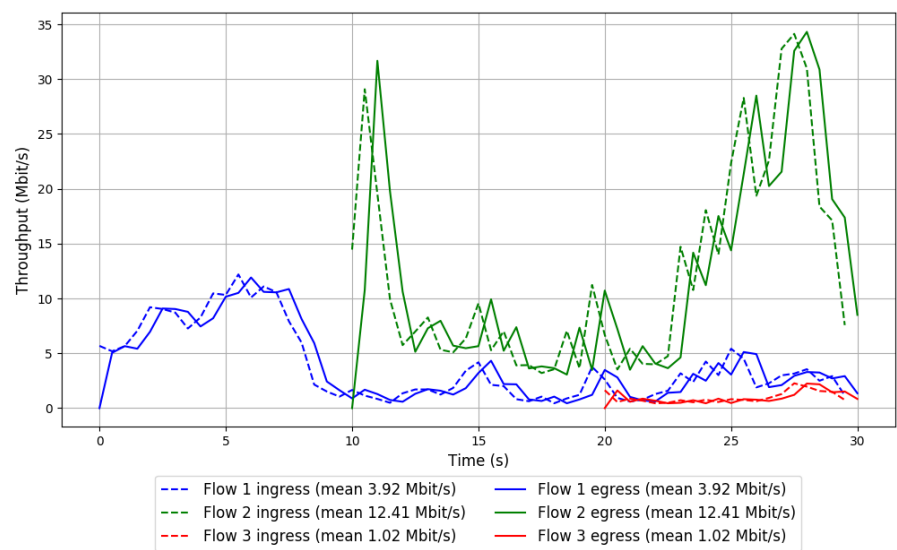
-- Flow 3:

Average throughput: 1.02 Mbit/s

95th percentile per-packet one-way delay: 31.792 ms

Loss rate: 0.00%

Run 4: Report of Muses\_DecisionTreeR0 — Data Link

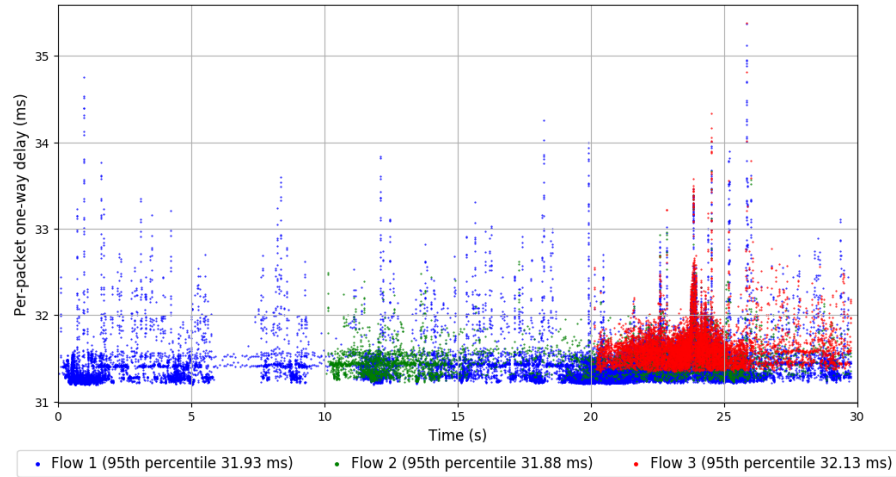
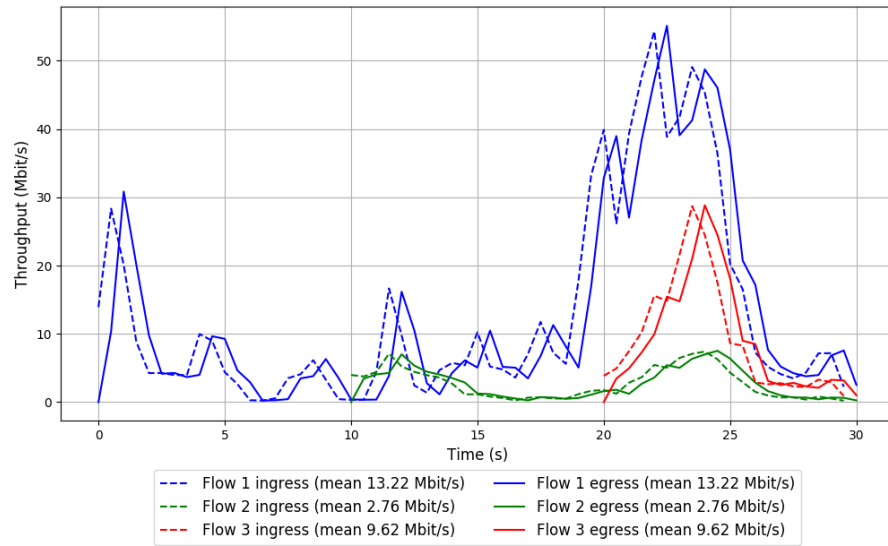


Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-07-12 07:48:50  
End at: 2019-07-12 07:49:20  
Local clock offset: 0.284 ms  
Remote clock offset: -7.322 ms

# Below is generated by plot.py at 2019-07-12 07:59:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 18.18 Mbit/s  
95th percentile per-packet one-way delay: 31.964 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 13.22 Mbit/s  
95th percentile per-packet one-way delay: 31.930 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 2.76 Mbit/s  
95th percentile per-packet one-way delay: 31.876 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 9.62 Mbit/s  
95th percentile per-packet one-way delay: 32.133 ms  
Loss rate: 0.00%

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

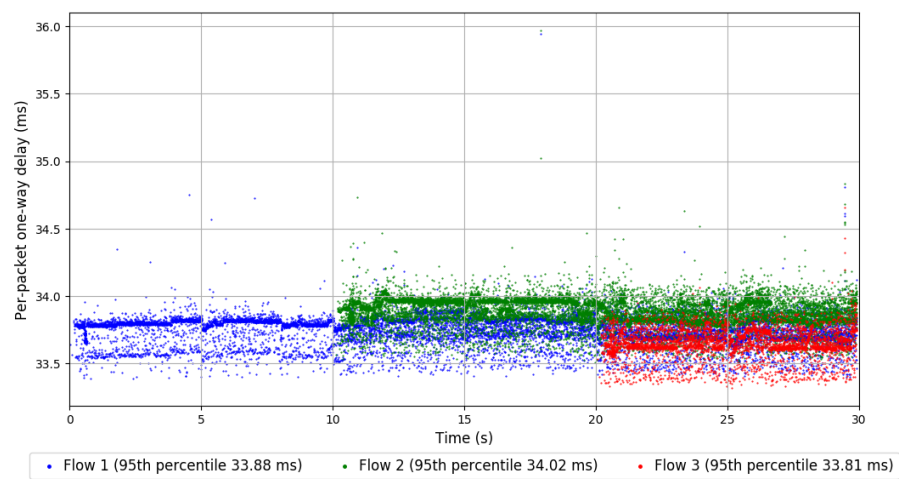
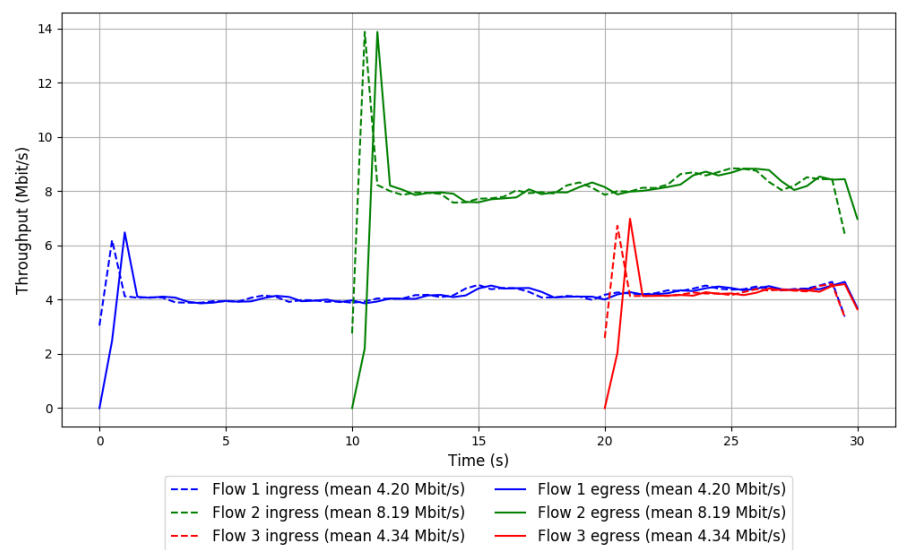


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-07-12 04:11:00
End at: 2019-07-12 04:11:30
Local clock offset: -0.203 ms
Remote clock offset: -5.106 ms

# Below is generated by plot.py at 2019-07-12 07:59:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.08 Mbit/s
95th percentile per-packet one-way delay: 33.983 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 33.882 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.19 Mbit/s
95th percentile per-packet one-way delay: 34.016 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: 33.814 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Allegro — Data Link

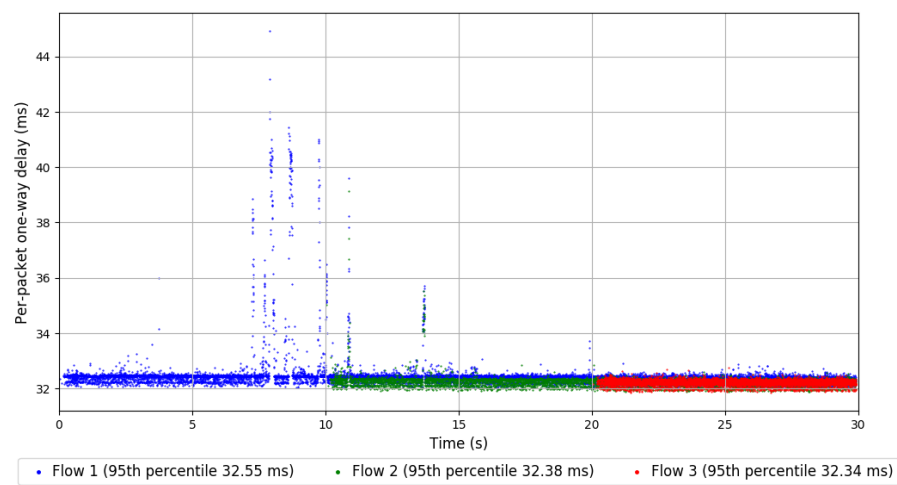
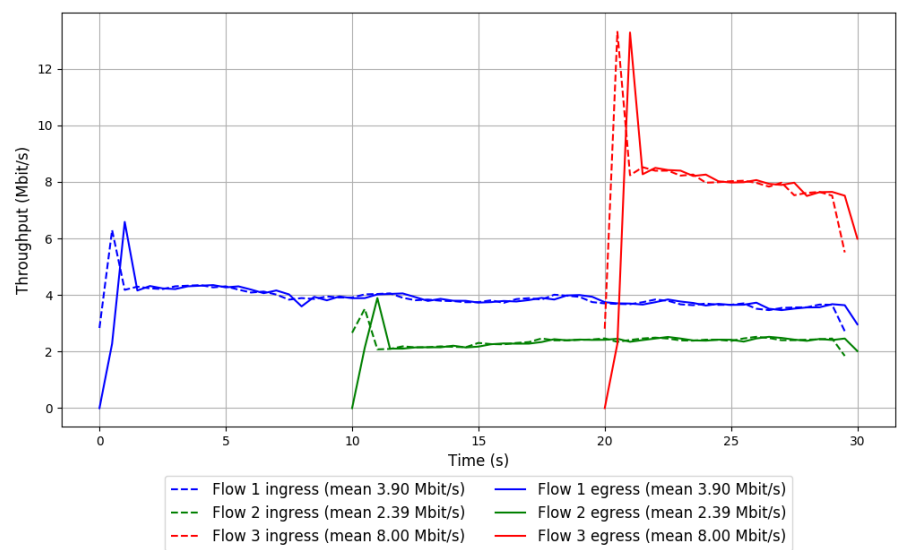


Run 2: Statistics of PCC-Allegro

Start at: 2019-07-12 05:00:05  
End at: 2019-07-12 05:00:35  
Local clock offset: -2.931 ms  
Remote clock offset: -7.824 ms

# Below is generated by plot.py at 2019-07-12 07:59:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.12 Mbit/s  
95th percentile per-packet one-way delay: 32.485 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 3.90 Mbit/s  
95th percentile per-packet one-way delay: 32.555 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 2.39 Mbit/s  
95th percentile per-packet one-way delay: 32.376 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 8.00 Mbit/s  
95th percentile per-packet one-way delay: 32.338 ms  
Loss rate: 0.00%

Run 2: Report of PCC-Allegro — Data Link



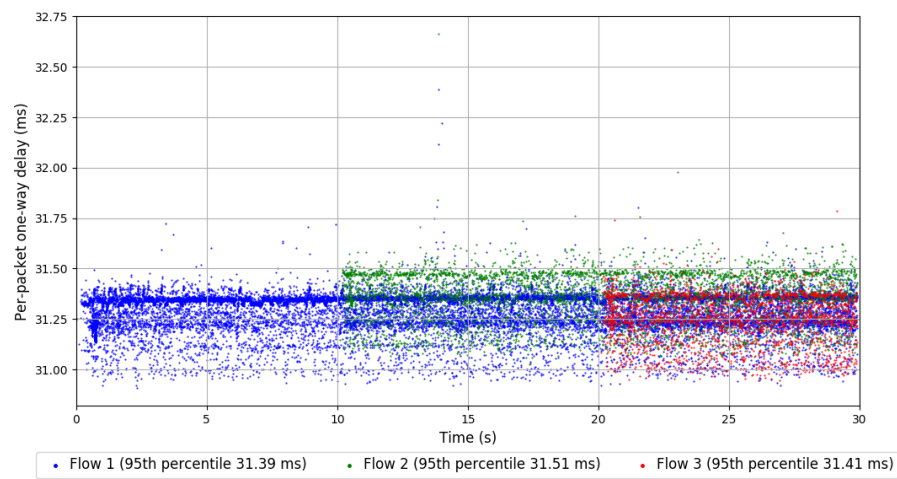
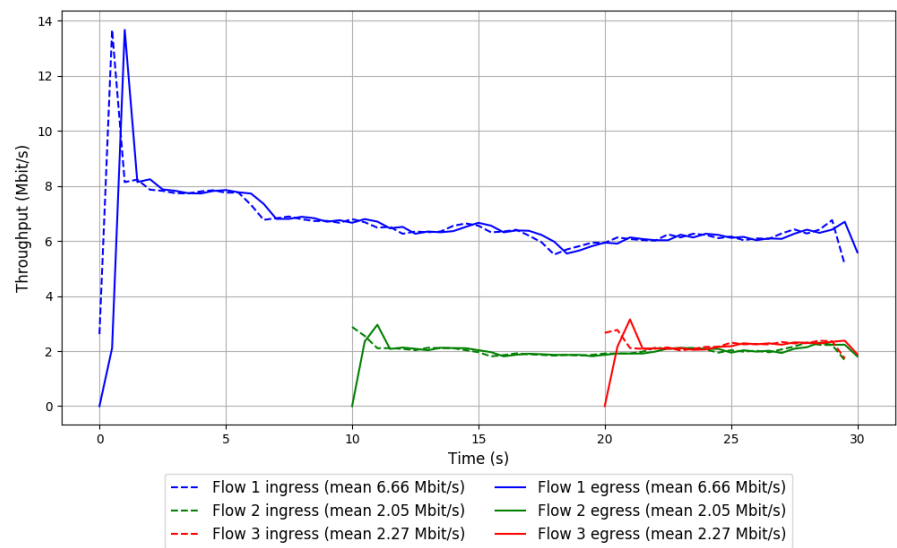


Run 3: Statistics of PCC-Allegro

Start at: 2019-07-12 05:46:52  
End at: 2019-07-12 05:47:22  
Local clock offset: -3.065 ms  
Remote clock offset: -8.858 ms

# Below is generated by plot.py at 2019-07-12 07:59:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.77 Mbit/s  
95th percentile per-packet one-way delay: 31.465 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 6.66 Mbit/s  
95th percentile per-packet one-way delay: 31.394 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 2.05 Mbit/s  
95th percentile per-packet one-way delay: 31.508 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 2.27 Mbit/s  
95th percentile per-packet one-way delay: 31.405 ms  
Loss rate: 0.00%

Run 3: Report of PCC-Allegro — Data Link

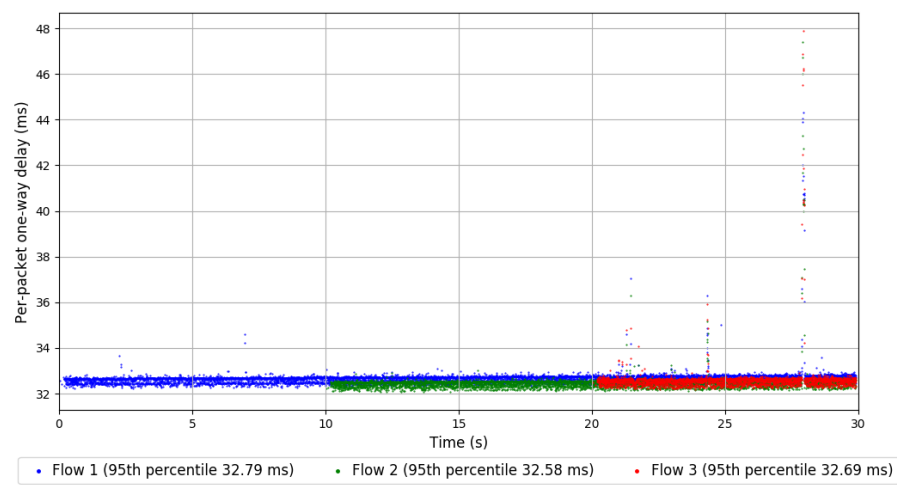
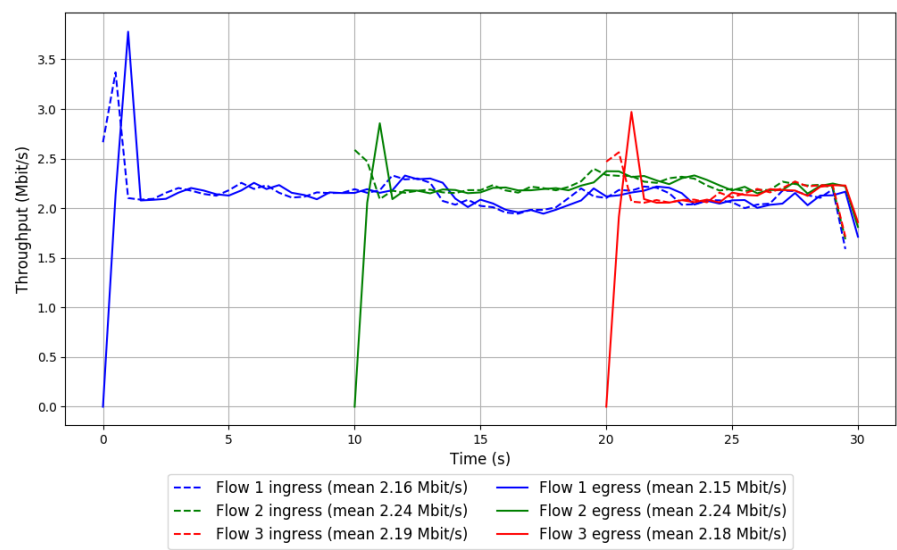


Run 4: Statistics of PCC-Allegro

Start at: 2019-07-12 06:31:00  
End at: 2019-07-12 06:31:30  
Local clock offset: -2.131 ms  
Remote clock offset: -6.119 ms

# Below is generated by plot.py at 2019-07-12 07:59:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.36 Mbit/s  
95th percentile per-packet one-way delay: 32.769 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 2.15 Mbit/s  
95th percentile per-packet one-way delay: 32.791 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 2.24 Mbit/s  
95th percentile per-packet one-way delay: 32.582 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 2.18 Mbit/s  
95th percentile per-packet one-way delay: 32.689 ms  
Loss rate: 0.34%

Run 4: Report of PCC-Allegro — Data Link

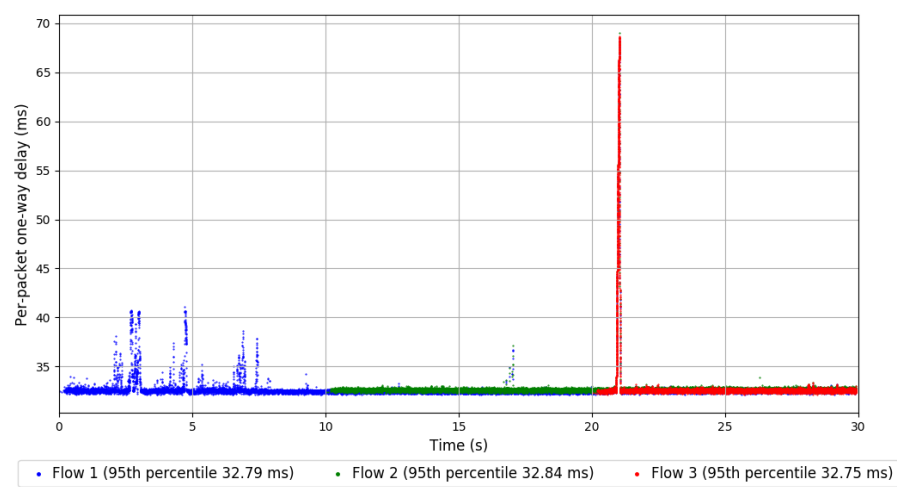
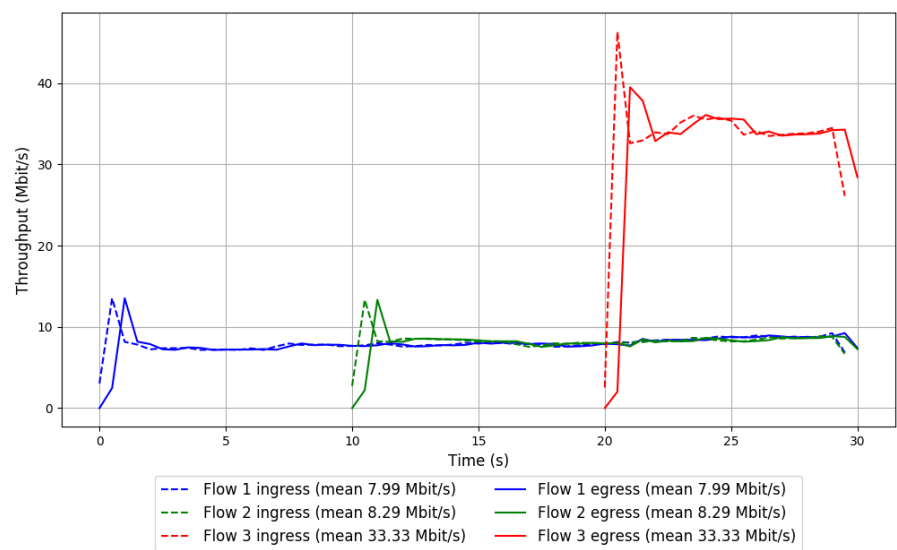


Run 5: Statistics of PCC-Allegro

Start at: 2019-07-12 07:12:07  
End at: 2019-07-12 07:12:37  
Local clock offset: -1.066 ms  
Remote clock offset: -5.934 ms

# Below is generated by plot.py at 2019-07-12 07:59:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 24.50 Mbit/s  
95th percentile per-packet one-way delay: 32.813 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 7.99 Mbit/s  
95th percentile per-packet one-way delay: 32.790 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 8.29 Mbit/s  
95th percentile per-packet one-way delay: 32.838 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 33.33 Mbit/s  
95th percentile per-packet one-way delay: 32.753 ms  
Loss rate: 0.00%

Run 5: Report of PCC-Allegro — Data Link

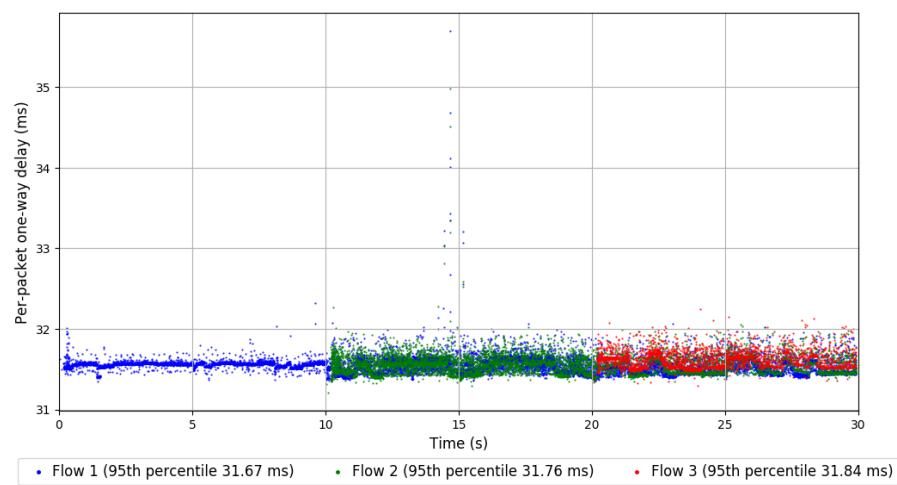
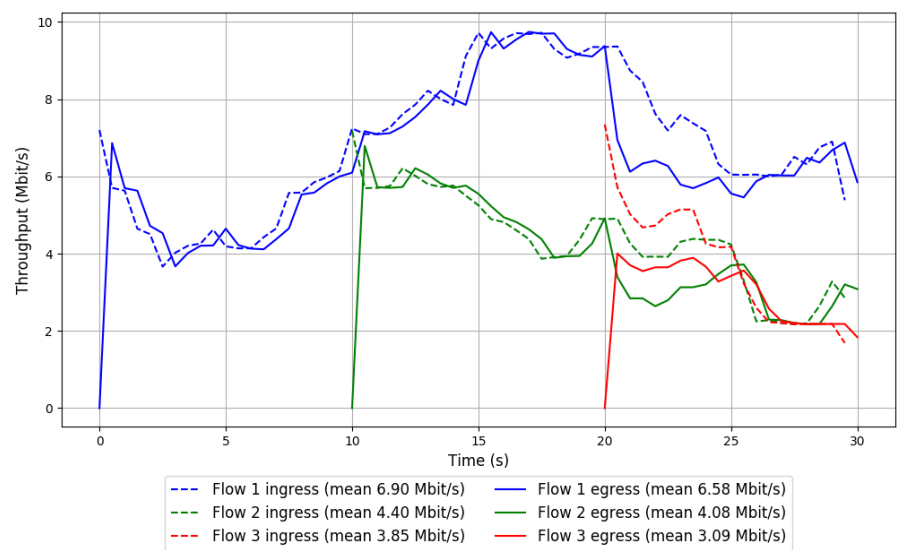


```
Run 1: Statistics of PCC-Expr

Start at: 2019-07-12 04:18:24
End at: 2019-07-12 04:18:54
Local clock offset: -0.257 ms
Remote clock offset: -7.18 ms

# Below is generated by plot.py at 2019-07-12 07:59:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.31 Mbit/s
95th percentile per-packet one-way delay: 31.734 ms
Loss rate: 7.10%
-- Flow 1:
Average throughput: 6.58 Mbit/s
95th percentile per-packet one-way delay: 31.672 ms
Loss rate: 4.66%
-- Flow 2:
Average throughput: 4.08 Mbit/s
95th percentile per-packet one-way delay: 31.763 ms
Loss rate: 7.32%
-- Flow 3:
Average throughput: 3.09 Mbit/s
95th percentile per-packet one-way delay: 31.836 ms
Loss rate: 19.84%
```

Run 1: Report of PCC-Expr — Data Link



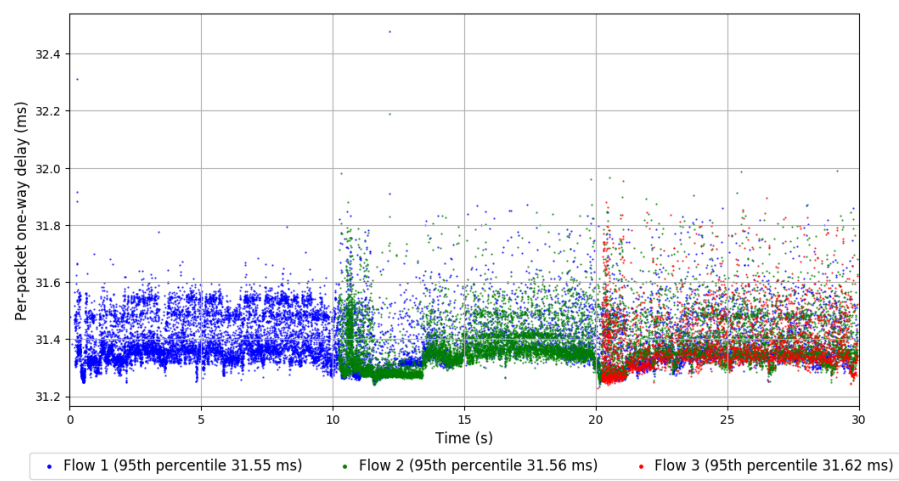
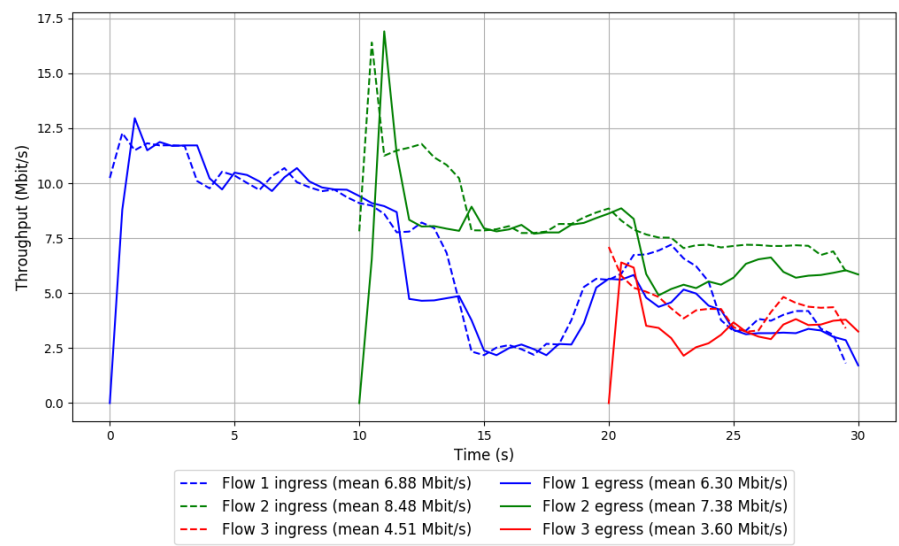


Run 2: Statistics of PCC-Expr

Start at: 2019-07-12 05:07:19  
End at: 2019-07-12 05:07:50  
Local clock offset: -3.58 ms  
Remote clock offset: -8.915 ms

# Below is generated by plot.py at 2019-07-12 07:59:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.39 Mbit/s  
95th percentile per-packet one-way delay: 31.558 ms  
Loss rate: 11.53%  
-- Flow 1:  
Average throughput: 6.30 Mbit/s  
95th percentile per-packet one-way delay: 31.553 ms  
Loss rate: 8.50%  
-- Flow 2:  
Average throughput: 7.38 Mbit/s  
95th percentile per-packet one-way delay: 31.557 ms  
Loss rate: 12.98%  
-- Flow 3:  
Average throughput: 3.60 Mbit/s  
95th percentile per-packet one-way delay: 31.620 ms  
Loss rate: 20.05%

Run 2: Report of PCC-Expr — Data Link

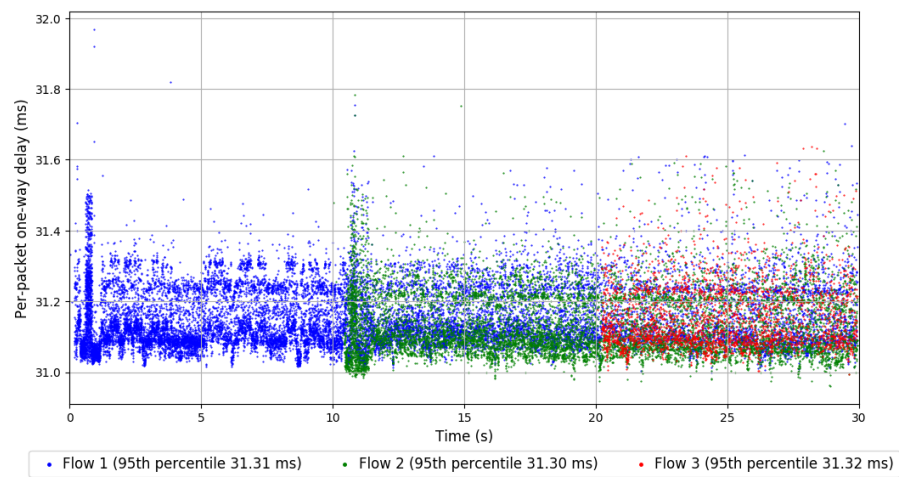
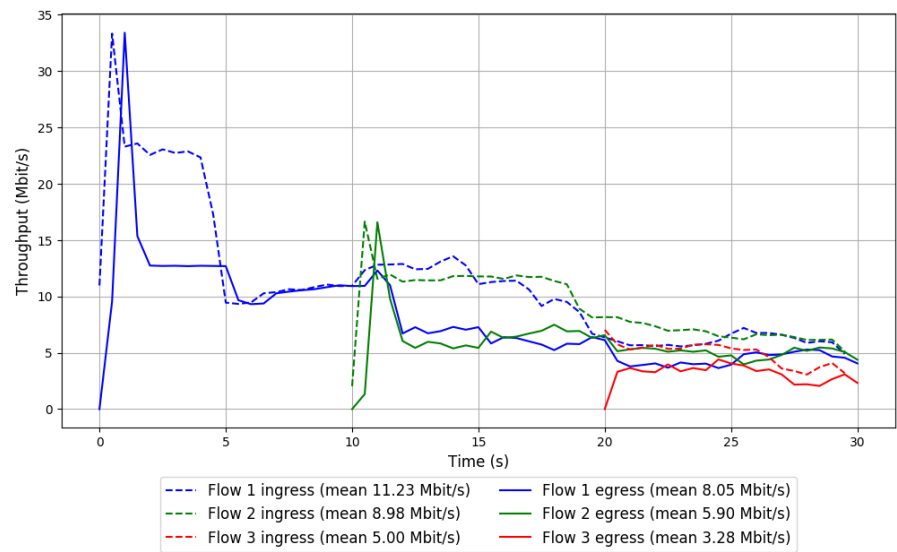


Run 3: Statistics of PCC-Expr

Start at: 2019-07-12 05:54:24  
End at: 2019-07-12 05:54:54  
Local clock offset: -2.992 ms  
Remote clock offset: -8.694 ms

# Below is generated by plot.py at 2019-07-12 07:59:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 13.06 Mbit/s  
95th percentile per-packet one-way delay: 31.310 ms  
Loss rate: 30.76%  
-- Flow 1:  
Average throughput: 8.05 Mbit/s  
95th percentile per-packet one-way delay: 31.310 ms  
Loss rate: 28.35%  
-- Flow 2:  
Average throughput: 5.90 Mbit/s  
95th percentile per-packet one-way delay: 31.301 ms  
Loss rate: 34.31%  
-- Flow 3:  
Average throughput: 3.28 Mbit/s  
95th percentile per-packet one-way delay: 31.323 ms  
Loss rate: 34.33%

Run 3: Report of PCC-Expr — Data Link

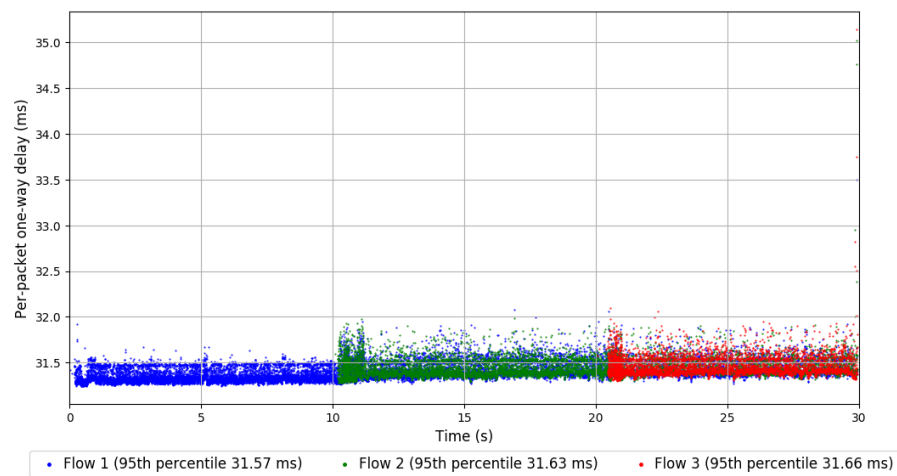
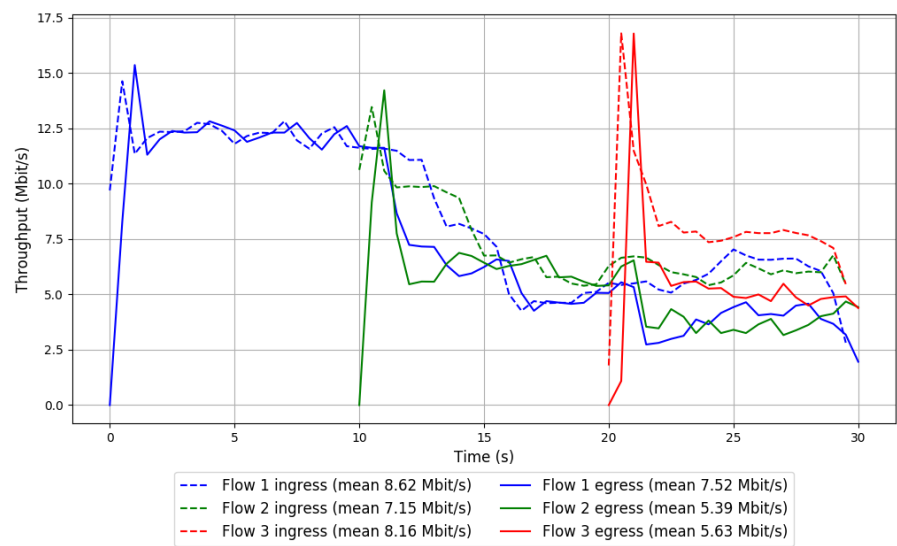


Run 4: Statistics of PCC-Expr

Start at: 2019-07-12 06:38:24  
End at: 2019-07-12 06:38:54  
Local clock offset: -0.615 ms  
Remote clock offset: -7.453 ms

# Below is generated by plot.py at 2019-07-12 07:59:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.96 Mbit/s  
95th percentile per-packet one-way delay: 31.607 ms  
Loss rate: 19.33%  
-- Flow 1:  
Average throughput: 7.52 Mbit/s  
95th percentile per-packet one-way delay: 31.573 ms  
Loss rate: 12.76%  
-- Flow 2:  
Average throughput: 5.39 Mbit/s  
95th percentile per-packet one-way delay: 31.627 ms  
Loss rate: 24.58%  
-- Flow 3:  
Average throughput: 5.63 Mbit/s  
95th percentile per-packet one-way delay: 31.665 ms  
Loss rate: 31.04%

Run 4: Report of PCC-Expr — Data Link

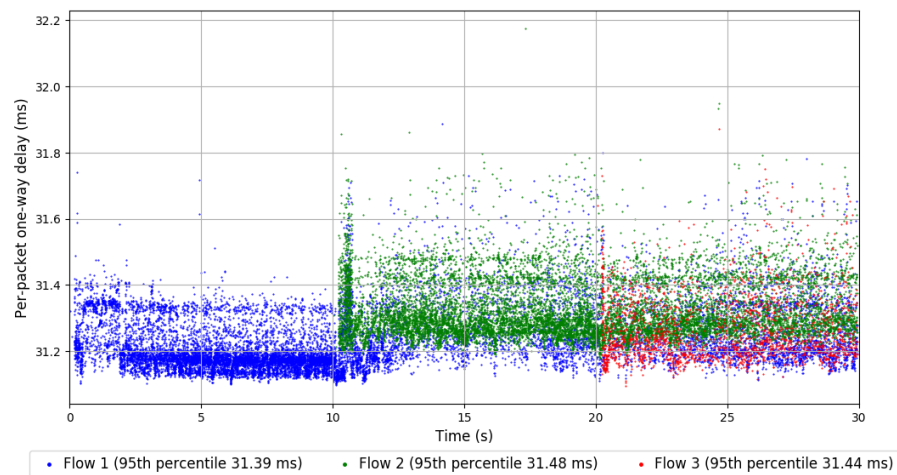
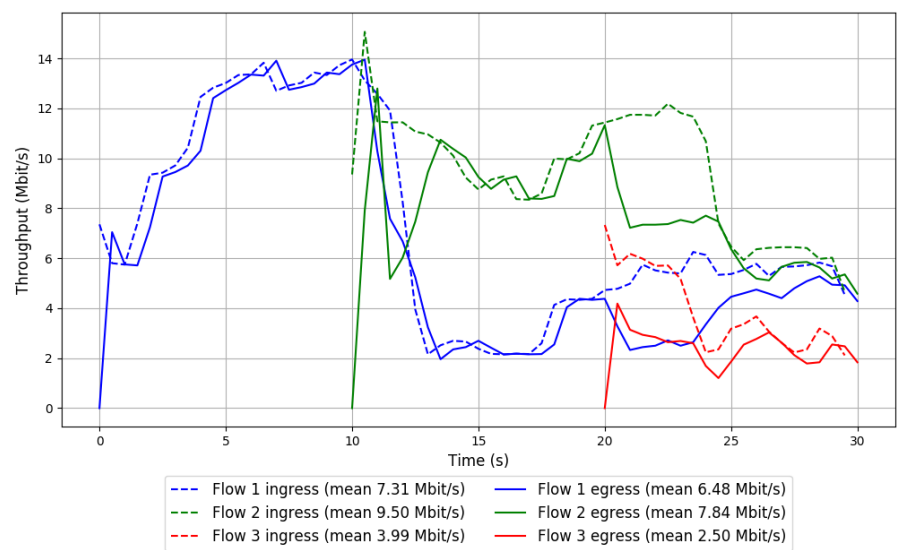


Run 5: Statistics of PCC-Expr

Start at: 2019-07-12 07:18:48  
End at: 2019-07-12 07:19:18  
Local clock offset: -1.409 ms  
Remote clock offset: -7.184 ms

# Below is generated by plot.py at 2019-07-12 07:59:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.52 Mbit/s  
95th percentile per-packet one-way delay: 31.457 ms  
Loss rate: 16.25%  
-- Flow 1:  
Average throughput: 6.48 Mbit/s  
95th percentile per-packet one-way delay: 31.391 ms  
Loss rate: 11.39%  
-- Flow 2:  
Average throughput: 7.84 Mbit/s  
95th percentile per-packet one-way delay: 31.484 ms  
Loss rate: 17.50%  
-- Flow 3:  
Average throughput: 2.50 Mbit/s  
95th percentile per-packet one-way delay: 31.438 ms  
Loss rate: 37.27%

Run 5: Report of PCC-Expr — Data Link



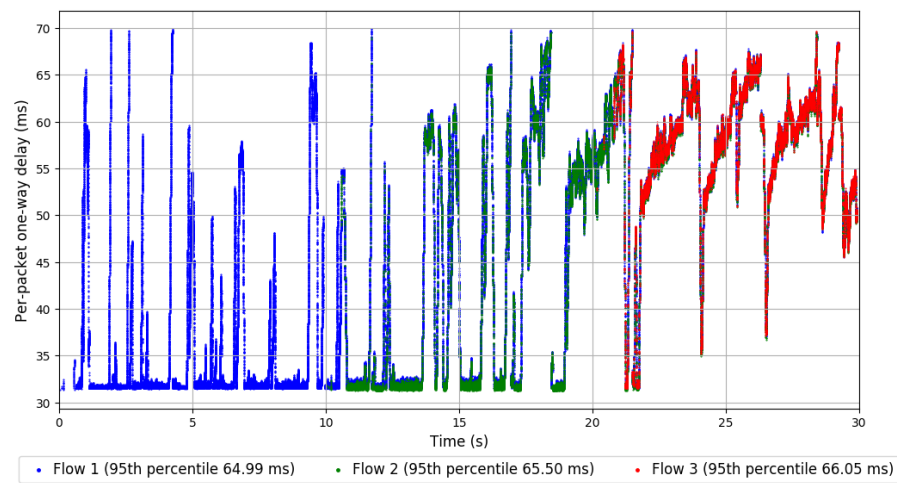
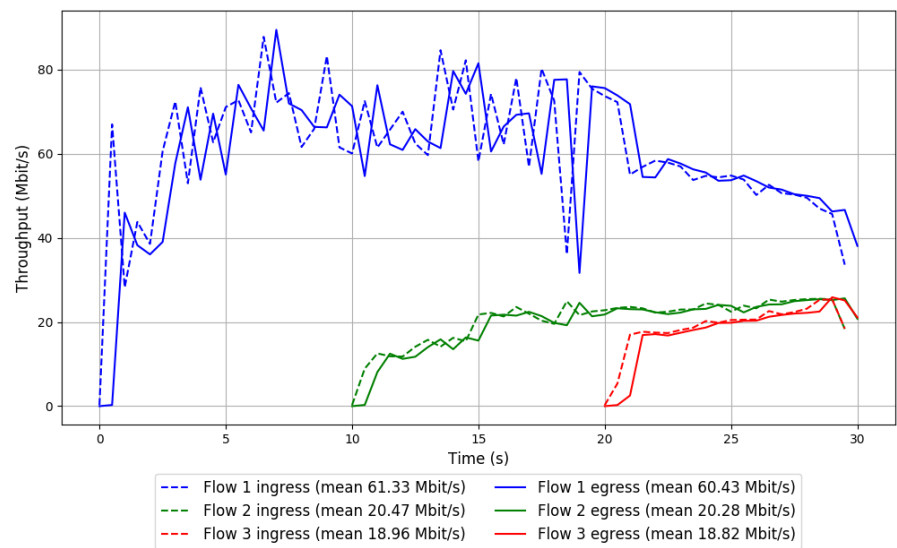


Run 1: Statistics of QUIC Cubic

Start at: 2019-07-12 04:53:22  
End at: 2019-07-12 04:53:52  
Local clock offset: -2.557 ms  
Remote clock offset: -8.384 ms

# Below is generated by plot.py at 2019-07-12 08:00:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.10 Mbit/s  
95th percentile per-packet one-way delay: 65.245 ms  
Loss rate: 1.27%  
-- Flow 1:  
Average throughput: 60.43 Mbit/s  
95th percentile per-packet one-way delay: 64.987 ms  
Loss rate: 1.41%  
-- Flow 2:  
Average throughput: 20.28 Mbit/s  
95th percentile per-packet one-way delay: 65.503 ms  
Loss rate: 0.85%  
-- Flow 3:  
Average throughput: 18.82 Mbit/s  
95th percentile per-packet one-way delay: 66.048 ms  
Loss rate: 0.80%

Run 1: Report of QUIC Cubic — Data Link

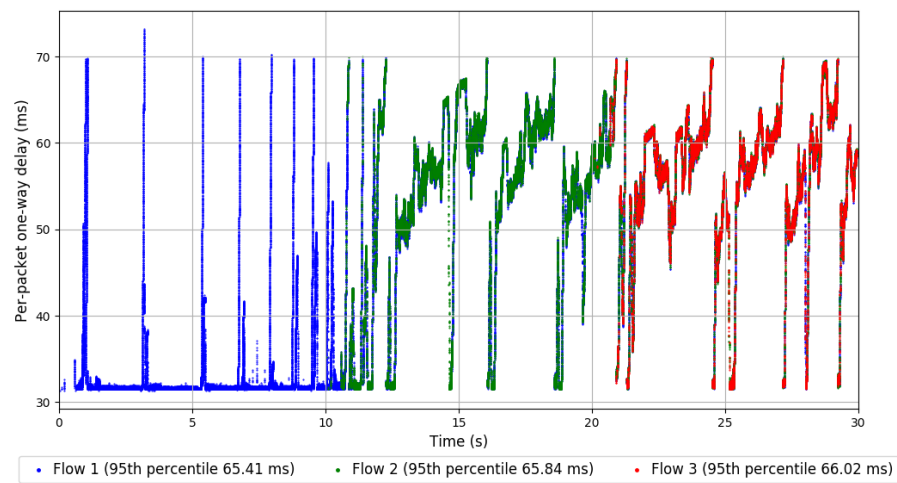
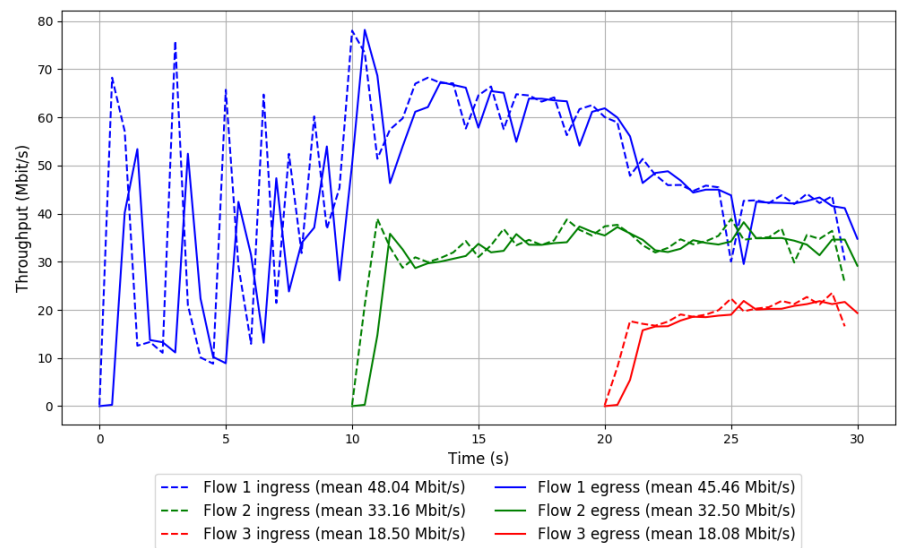


Run 2: Statistics of QUIC Cubic

Start at: 2019-07-12 05:40:24  
End at: 2019-07-12 05:40:54  
Local clock offset: -3.289 ms  
Remote clock offset: -8.723 ms

# Below is generated by plot.py at 2019-07-12 08:00:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 73.02 Mbit/s  
95th percentile per-packet one-way delay: 65.599 ms  
Loss rate: 4.05%  
-- Flow 1:  
Average throughput: 45.46 Mbit/s  
95th percentile per-packet one-way delay: 65.414 ms  
Loss rate: 5.29%  
-- Flow 2:  
Average throughput: 32.50 Mbit/s  
95th percentile per-packet one-way delay: 65.844 ms  
Loss rate: 1.87%  
-- Flow 3:  
Average throughput: 18.08 Mbit/s  
95th percentile per-packet one-way delay: 66.018 ms  
Loss rate: 2.25%

Run 2: Report of QUIC Cubic — Data Link

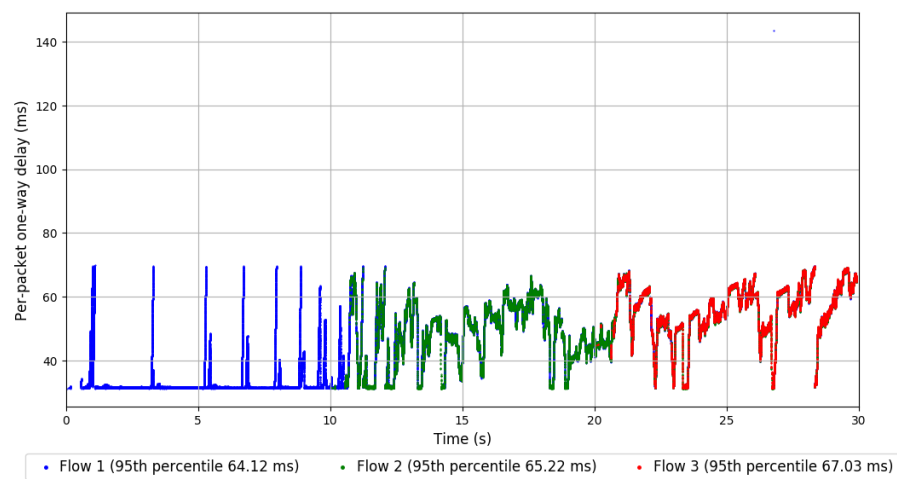
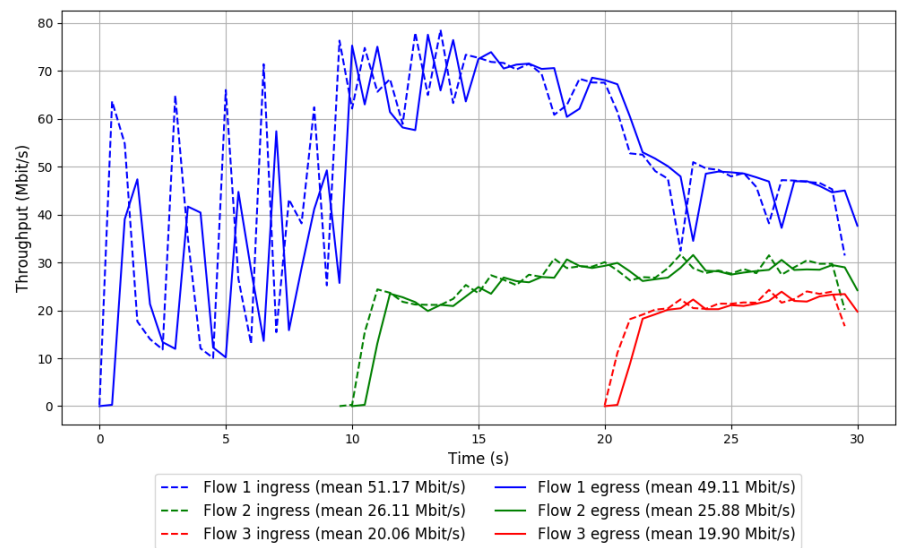


Run 3: Statistics of QUIC Cubic

Start at: 2019-07-12 06:24:38  
End at: 2019-07-12 06:25:08  
Local clock offset: -2.803 ms  
Remote clock offset: -7.036 ms

# Below is generated by plot.py at 2019-07-12 08:00:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 72.91 Mbit/s  
95th percentile per-packet one-way delay: 64.859 ms  
Loss rate: 2.88%  
-- Flow 1:  
Average throughput: 49.11 Mbit/s  
95th percentile per-packet one-way delay: 64.124 ms  
Loss rate: 3.92%  
-- Flow 2:  
Average throughput: 25.88 Mbit/s  
95th percentile per-packet one-way delay: 65.218 ms  
Loss rate: 0.71%  
-- Flow 3:  
Average throughput: 19.90 Mbit/s  
95th percentile per-packet one-way delay: 67.026 ms  
Loss rate: 0.57%

Run 3: Report of QUIC Cubic — Data Link

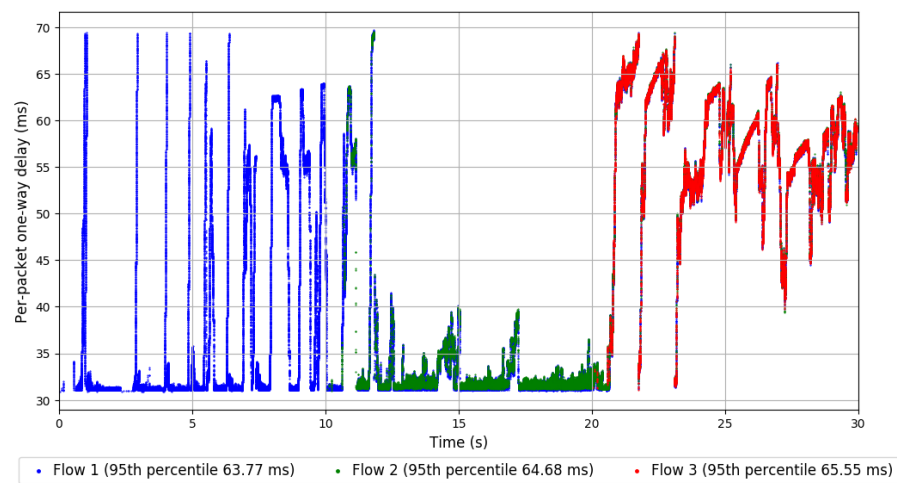
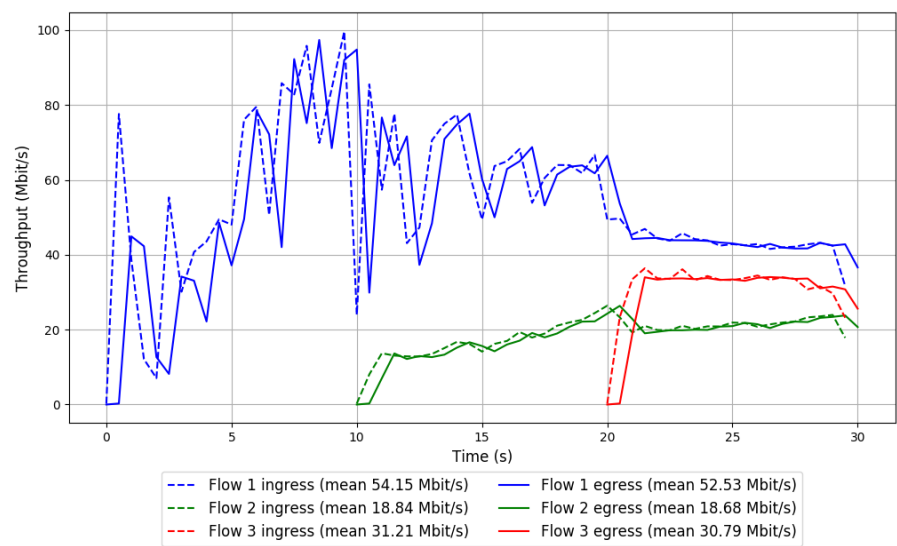


Run 4: Statistics of QUIC Cubic

Start at: 2019-07-12 07:06:20  
End at: 2019-07-12 07:06:50  
Local clock offset: -0.508 ms  
Remote clock offset: -7.259 ms

# Below is generated by plot.py at 2019-07-12 08:00:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.11 Mbit/s  
95th percentile per-packet one-way delay: 64.407 ms  
Loss rate: 2.30%  
-- Flow 1:  
Average throughput: 52.53 Mbit/s  
95th percentile per-packet one-way delay: 63.774 ms  
Loss rate: 2.90%  
-- Flow 2:  
Average throughput: 18.68 Mbit/s  
95th percentile per-packet one-way delay: 64.680 ms  
Loss rate: 0.71%  
-- Flow 3:  
Average throughput: 30.79 Mbit/s  
95th percentile per-packet one-way delay: 65.547 ms  
Loss rate: 1.06%

Run 4: Report of QUIC Cubic — Data Link



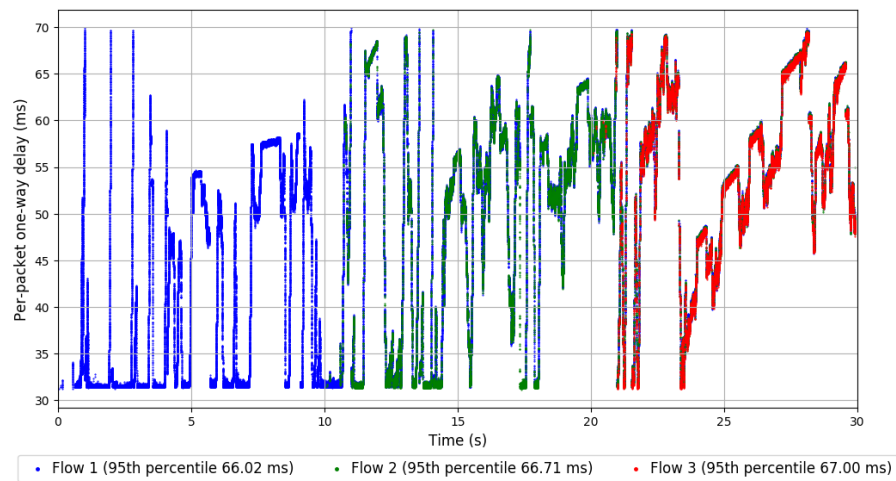
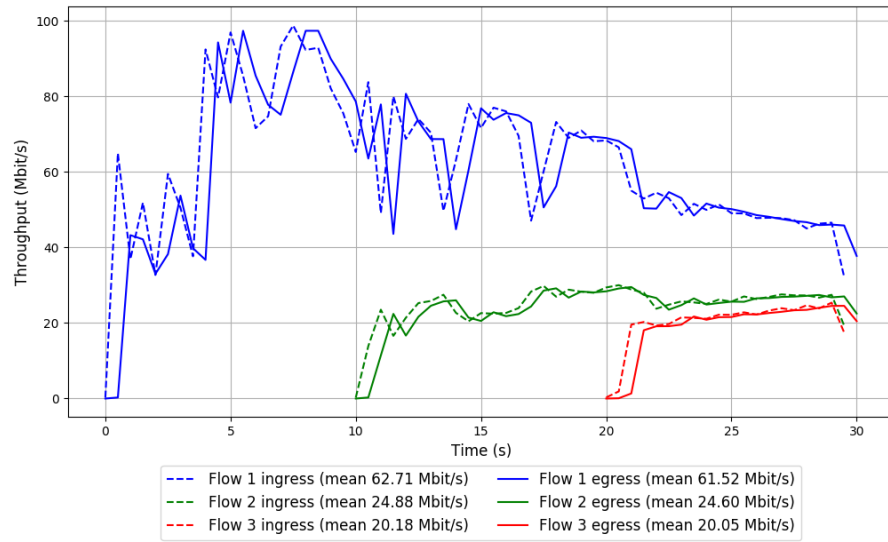


Run 5: Statistics of QUIC Cubic

Start at: 2019-07-12 07:45:12  
End at: 2019-07-12 07:45:42  
Local clock offset: 0.143 ms  
Remote clock offset: -7.299 ms

# Below is generated by plot.py at 2019-07-12 08:00:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.47 Mbit/s  
95th percentile per-packet one-way delay: 66.358 ms  
Loss rate: 1.59%  
-- Flow 1:  
Average throughput: 61.52 Mbit/s  
95th percentile per-packet one-way delay: 66.016 ms  
Loss rate: 1.84%  
-- Flow 2:  
Average throughput: 24.60 Mbit/s  
95th percentile per-packet one-way delay: 66.714 ms  
Loss rate: 1.01%  
-- Flow 3:  
Average throughput: 20.05 Mbit/s  
95th percentile per-packet one-way delay: 66.999 ms  
Loss rate: 0.71%

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

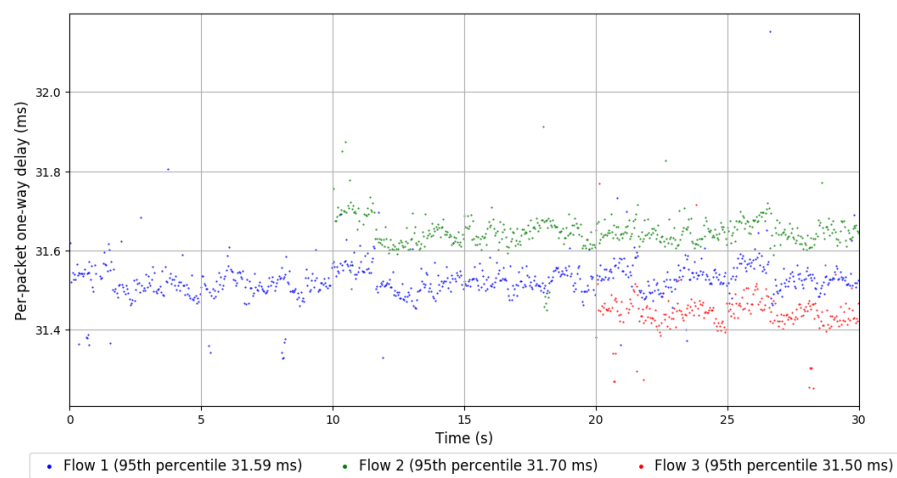
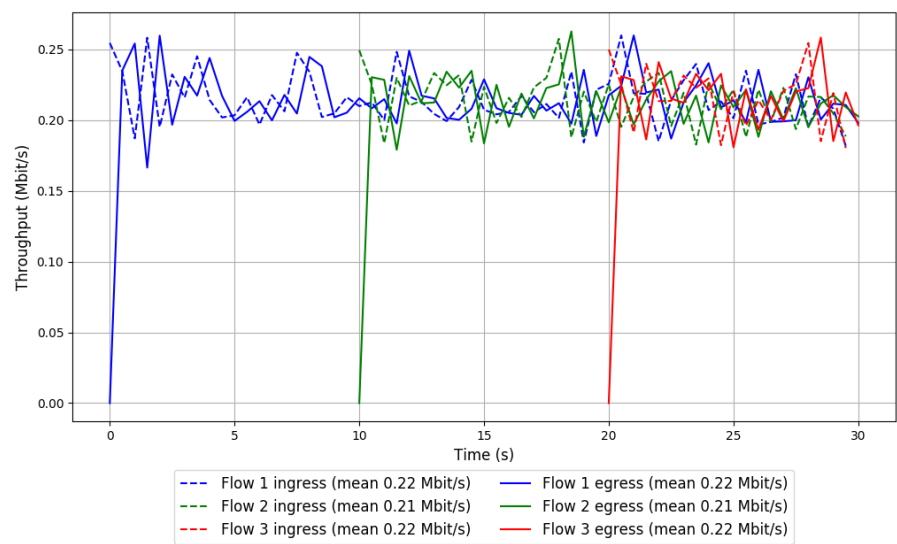


Run 1: Statistics of SReAM

Start at: 2019-07-12 04:21:06  
End at: 2019-07-12 04:21:36  
Local clock offset: -0.267 ms  
Remote clock offset: -7.274 ms

# Below is generated by plot.py at 2019-07-12 08:00:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 31.680 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 31.588 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 31.701 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 31.503 ms  
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

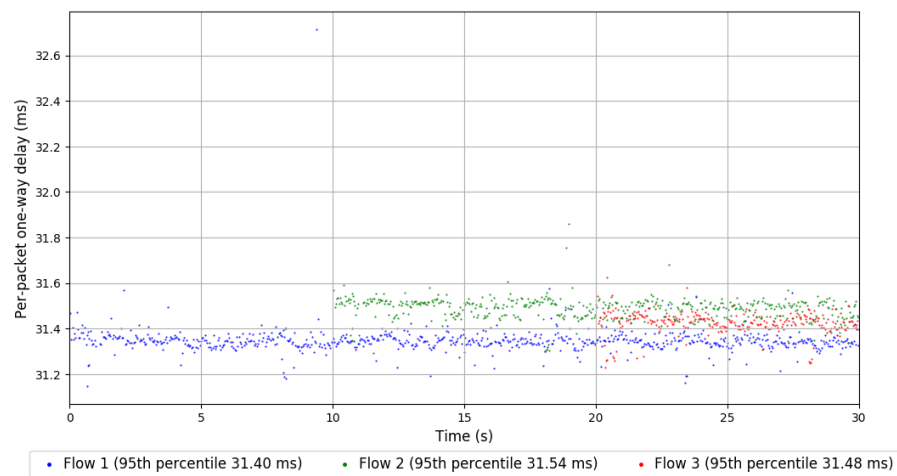
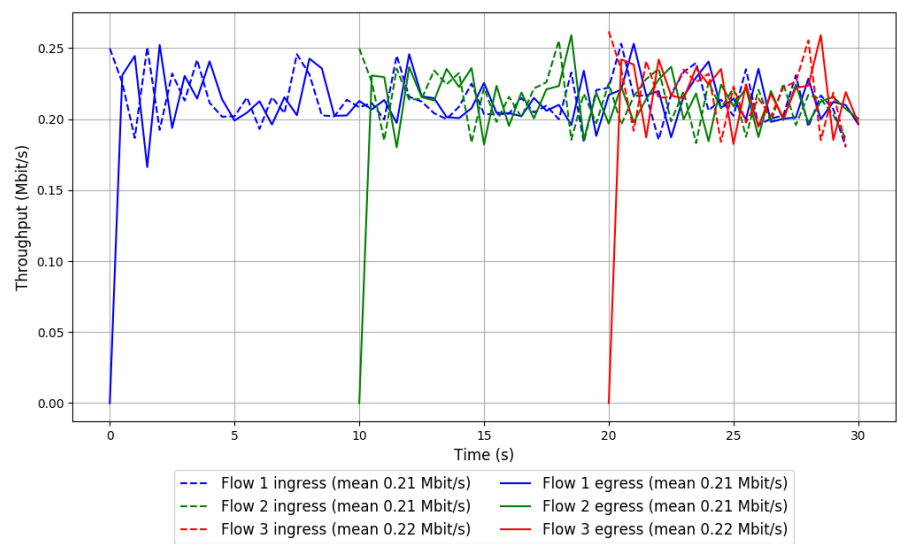


Run 2: Statistics of SReAM

Start at: 2019-07-12 05:10:07  
End at: 2019-07-12 05:10:37  
Local clock offset: -3.746 ms  
Remote clock offset: -9.013 ms

# Below is generated by plot.py at 2019-07-12 08:00:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 31.525 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 31.399 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 31.540 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 31.483 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

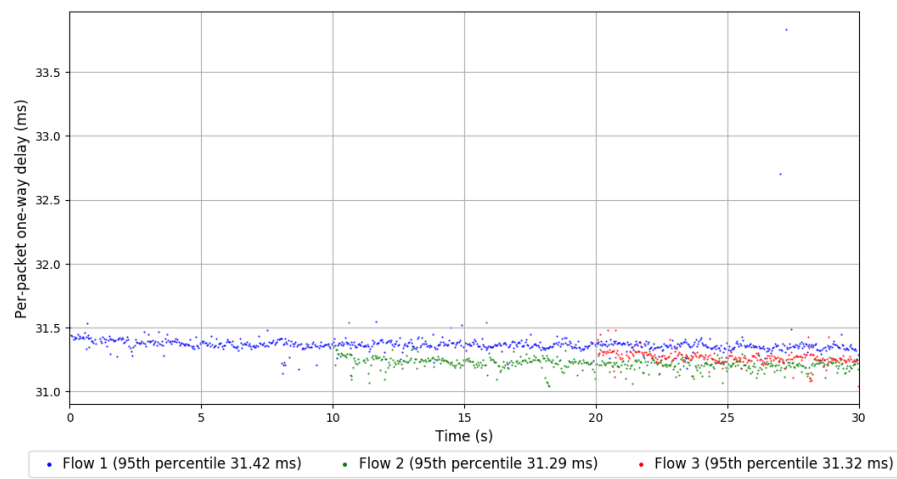
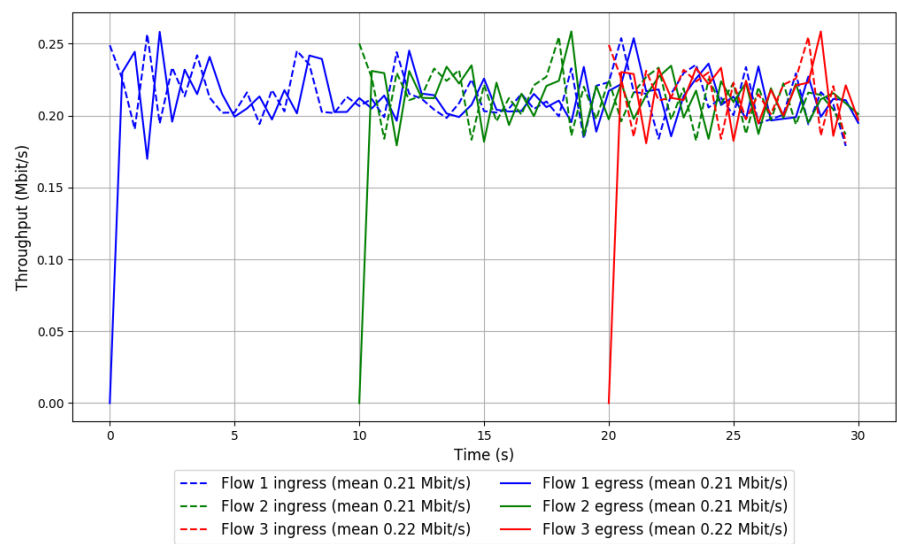


Run 3: Statistics of SReAM

Start at: 2019-07-12 05:57:12  
End at: 2019-07-12 05:57:42  
Local clock offset: -2.976 ms  
Remote clock offset: -8.474 ms

# Below is generated by plot.py at 2019-07-12 08:00:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 31.412 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 31.423 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 31.289 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 31.322 ms  
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



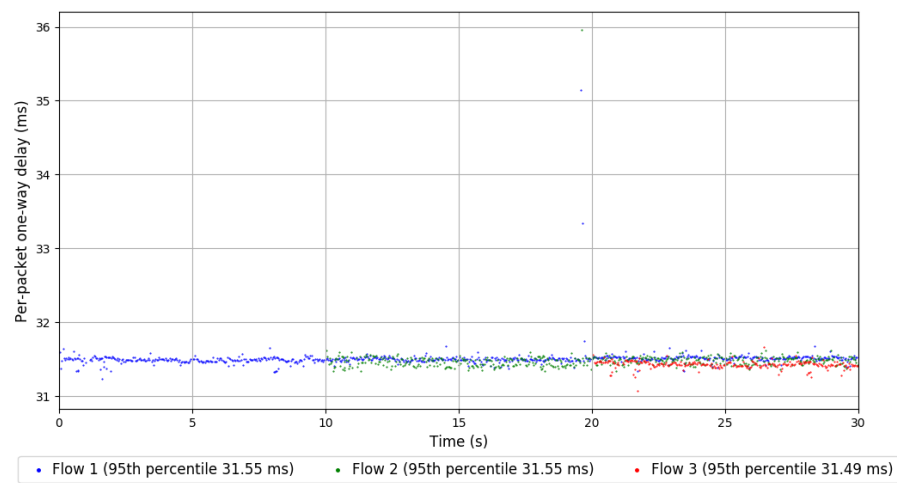
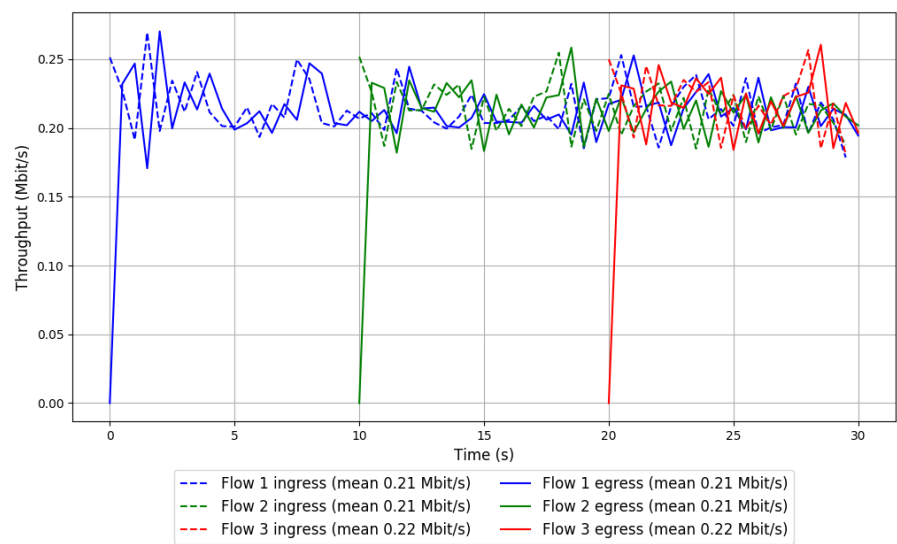


Run 4: Statistics of SReAM

Start at: 2019-07-12 06:41:07  
End at: 2019-07-12 06:41:37  
Local clock offset: -0.241 ms  
Remote clock offset: -7.334 ms

# Below is generated by plot.py at 2019-07-12 08:00:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 31.544 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 31.547 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 31.547 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 31.488 ms  
Loss rate: 0.00%

Run 4: Report of SCReAM — Data Link

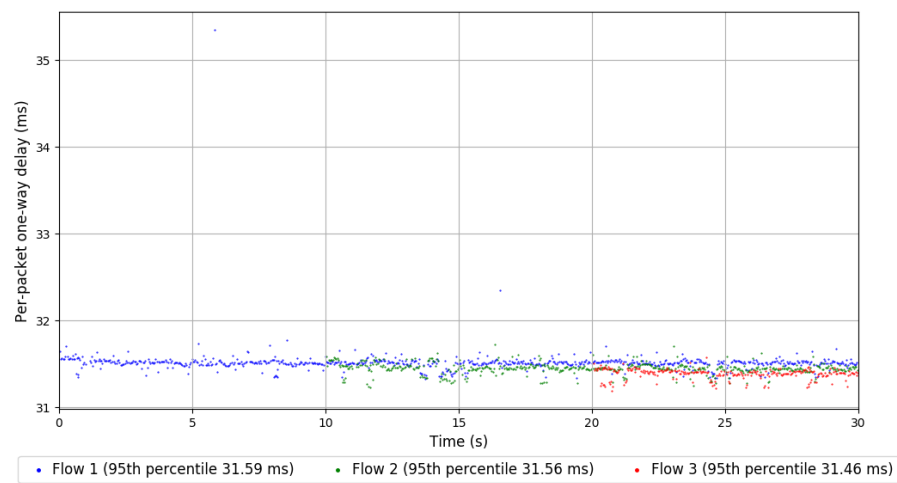
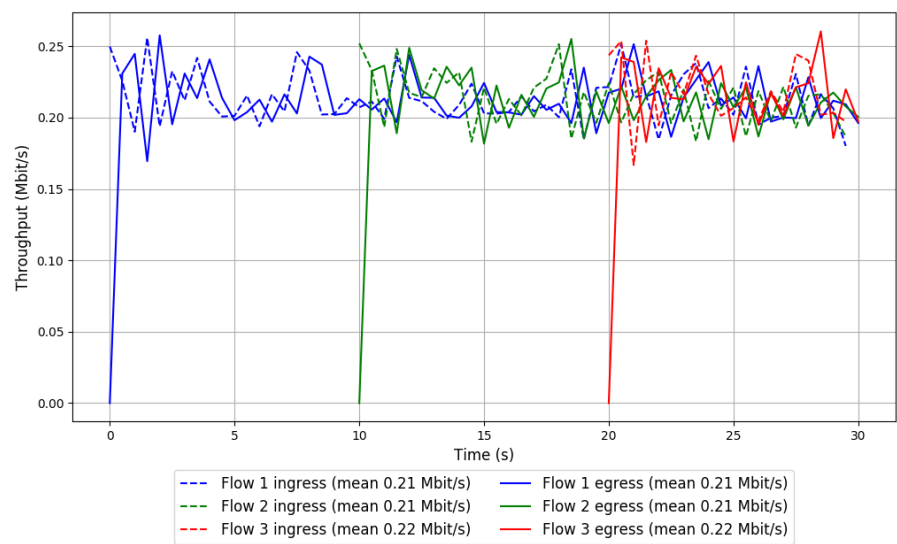


Run 5: Statistics of SReAM

Start at: 2019-07-12 07:21:22  
End at: 2019-07-12 07:21:52  
Local clock offset: -1.483 ms  
Remote clock offset: -7.159 ms

# Below is generated by plot.py at 2019-07-12 08:00:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 31.567 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 31.587 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 31.562 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 31.456 ms  
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

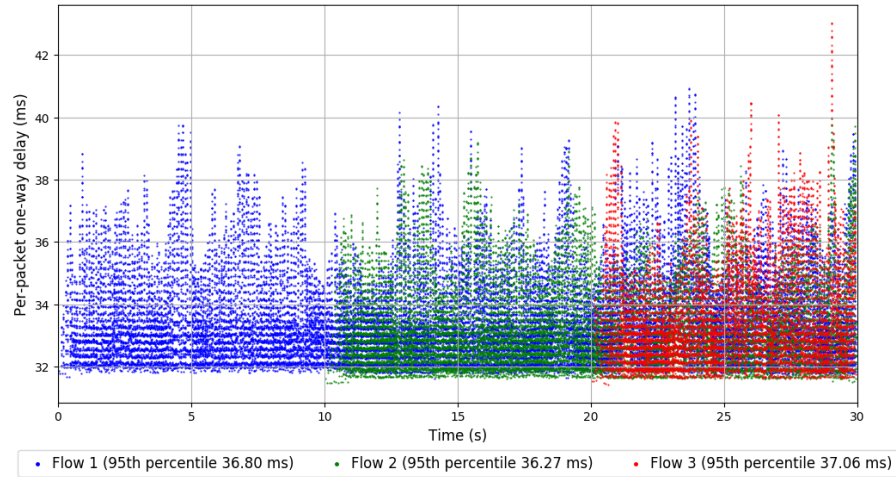
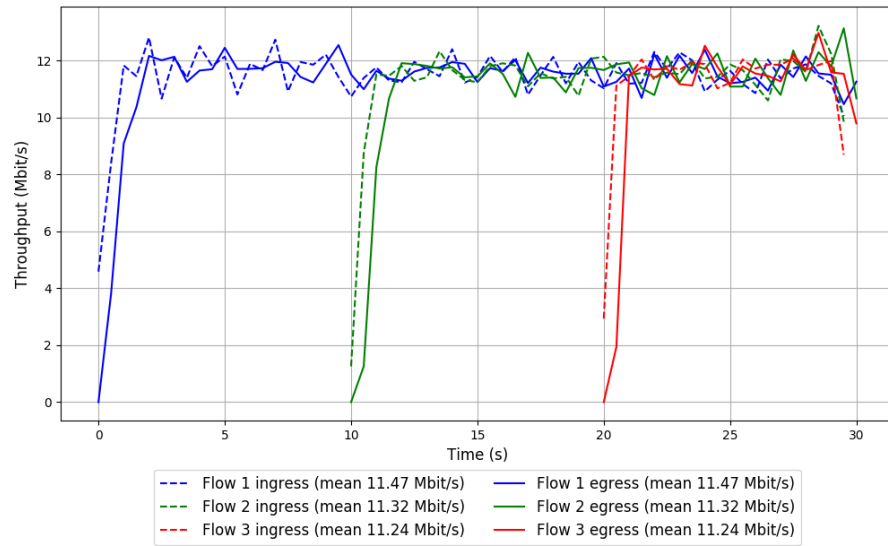


Run 1: Statistics of Sprout

Start at: 2019-07-12 04:33:57  
End at: 2019-07-12 04:34:27  
Local clock offset: -1.163 ms  
Remote clock offset: -7.496 ms

# Below is generated by plot.py at 2019-07-12 08:00:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 22.71 Mbit/s  
95th percentile per-packet one-way delay: 36.711 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 11.47 Mbit/s  
95th percentile per-packet one-way delay: 36.801 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 11.32 Mbit/s  
95th percentile per-packet one-way delay: 36.272 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 11.24 Mbit/s  
95th percentile per-packet one-way delay: 37.063 ms  
Loss rate: 0.00%

## Run 1: Report of Sprout — Data Link

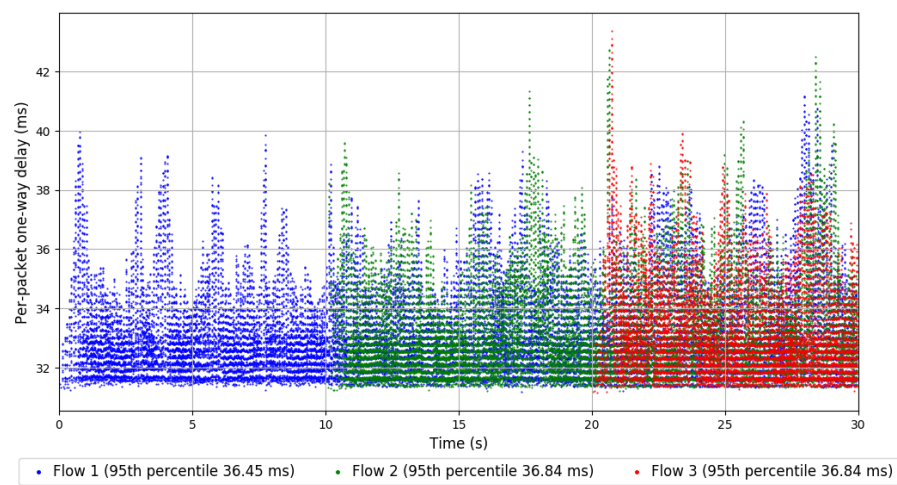
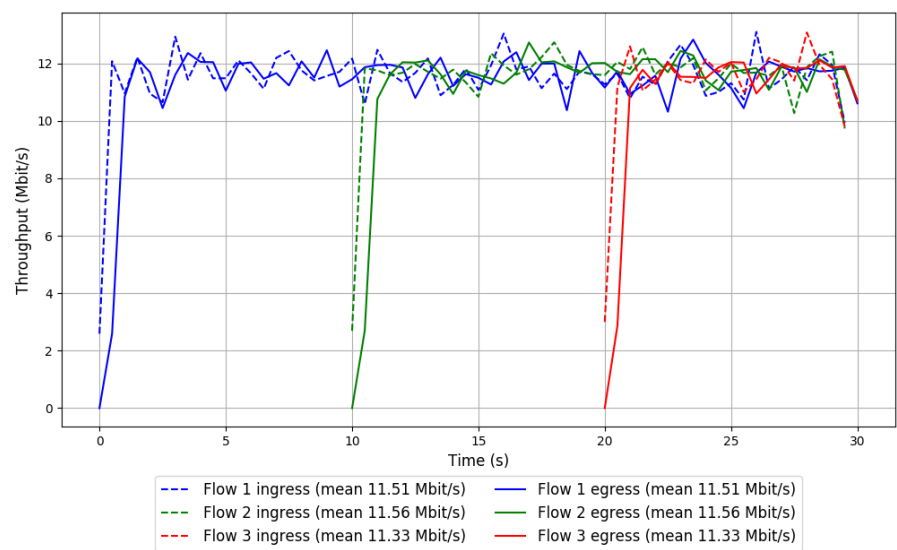


Run 2: Statistics of Sprout

Start at: 2019-07-12 05:22:14  
End at: 2019-07-12 05:22:44  
Local clock offset: -4.414 ms  
Remote clock offset: -9.066 ms

# Below is generated by plot.py at 2019-07-12 08:00:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 22.94 Mbit/s  
95th percentile per-packet one-way delay: 36.665 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 11.51 Mbit/s  
95th percentile per-packet one-way delay: 36.449 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 11.56 Mbit/s  
95th percentile per-packet one-way delay: 36.836 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 11.33 Mbit/s  
95th percentile per-packet one-way delay: 36.844 ms  
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



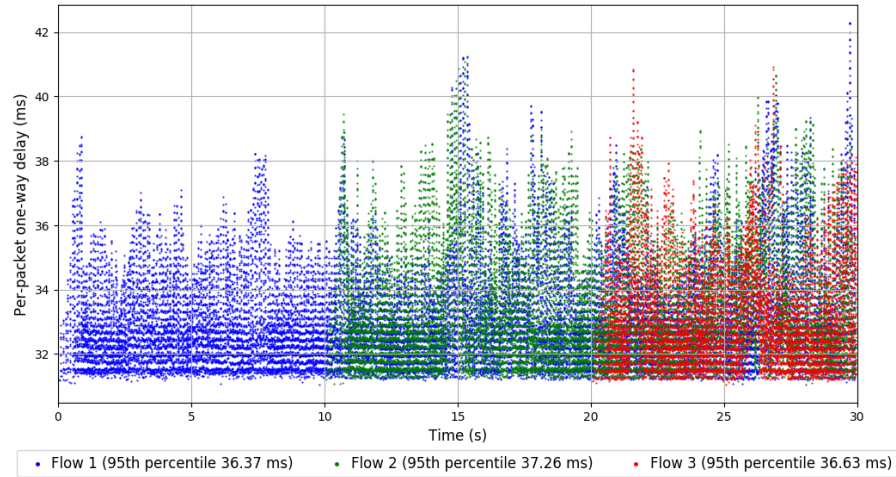
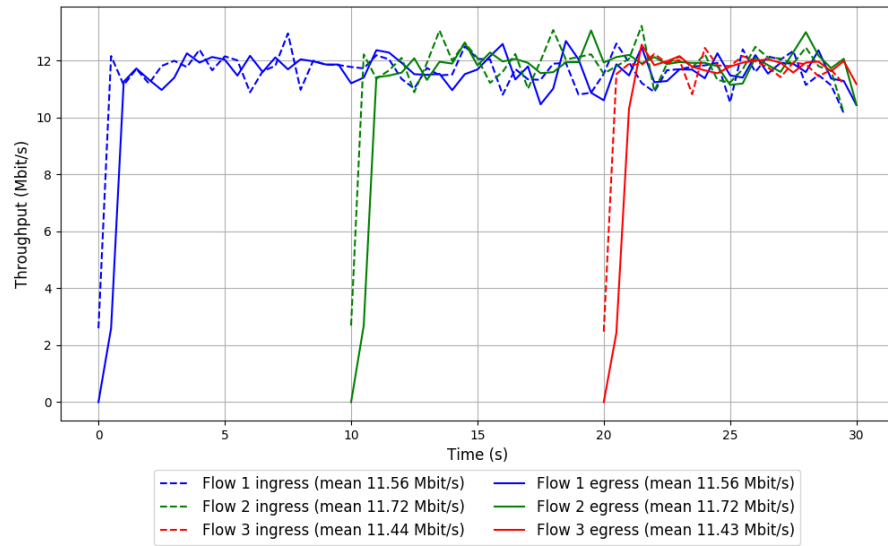


### Run 3: Statistics of Sprout

Start at: 2019-07-12 06:07:46  
End at: 2019-07-12 06:08:16  
Local clock offset: -2.868 ms  
Remote clock offset: -7.868 ms

```
# Below is generated by plot.py at 2019-07-12 08:00:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.13 Mbit/s
95th percentile per-packet one-way delay: 36.823 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.56 Mbit/s
95th percentile per-packet one-way delay: 36.368 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.72 Mbit/s
95th percentile per-packet one-way delay: 37.264 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.43 Mbit/s
95th percentile per-packet one-way delay: 36.630 ms
Loss rate: 0.00%
```

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



#### Run 4: Statistics of Sprout

Start at: 2019-07-12 06:50:29

End at: 2019-07-12 06:50:59

Local clock offset: 0.579 ms

Remote clock offset: -7.28 ms

# Below is generated by plot.py at 2019-07-12 08:00:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 23.19 Mbit/s

95th percentile per-packet one-way delay: 36.731 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 11.82 Mbit/s

95th percentile per-packet one-way delay: 36.975 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 11.51 Mbit/s

95th percentile per-packet one-way delay: 36.471 ms

Loss rate: 0.00%

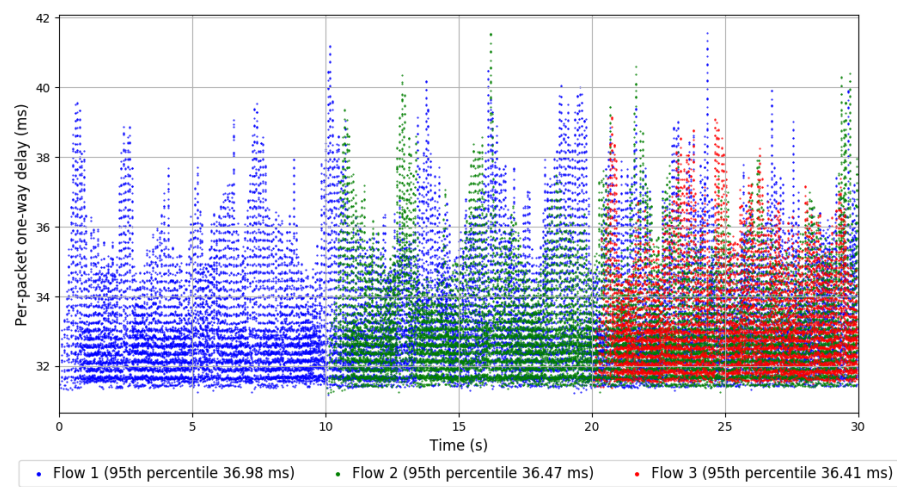
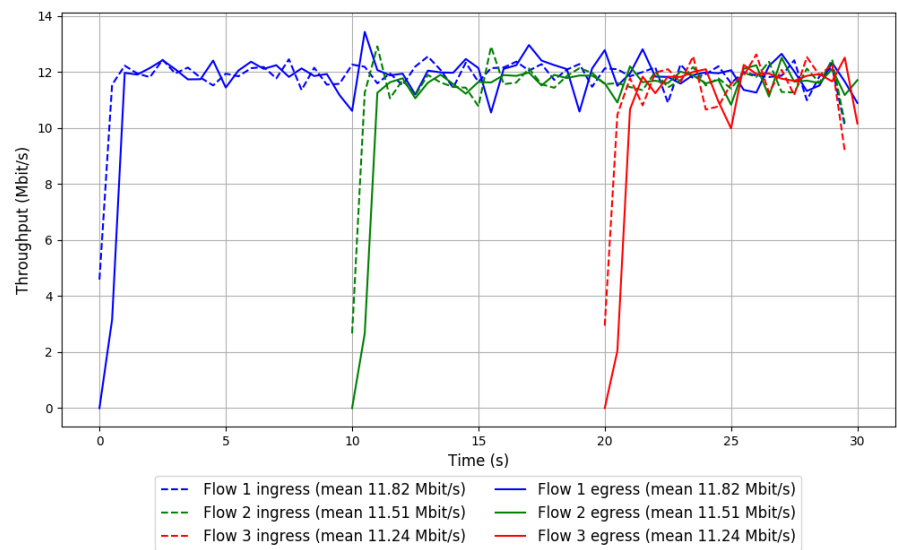
-- Flow 3:

Average throughput: 11.24 Mbit/s

95th percentile per-packet one-way delay: 36.408 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

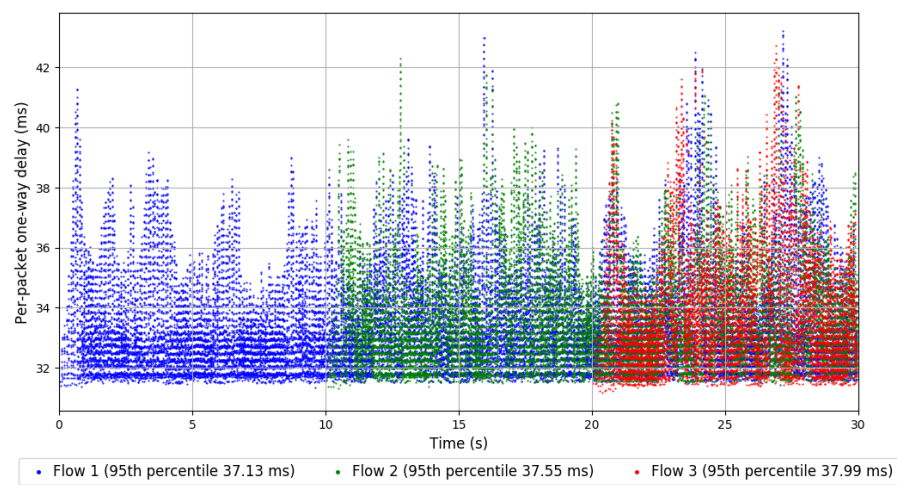
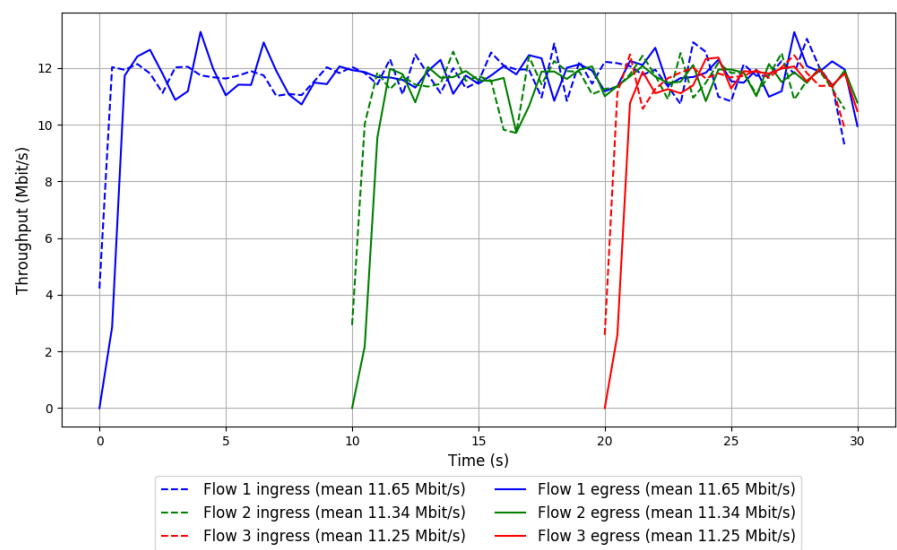


Run 5: Statistics of Sprout

Start at: 2019-07-12 07:30:20  
End at: 2019-07-12 07:30:50  
Local clock offset: -1.358 ms  
Remote clock offset: -7.298 ms

```
# Below is generated by plot.py at 2019-07-12 08:00:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.91 Mbit/s
95th percentile per-packet one-way delay: 37.409 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.65 Mbit/s
95th percentile per-packet one-way delay: 37.129 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.34 Mbit/s
95th percentile per-packet one-way delay: 37.549 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.25 Mbit/s
95th percentile per-packet one-way delay: 37.986 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

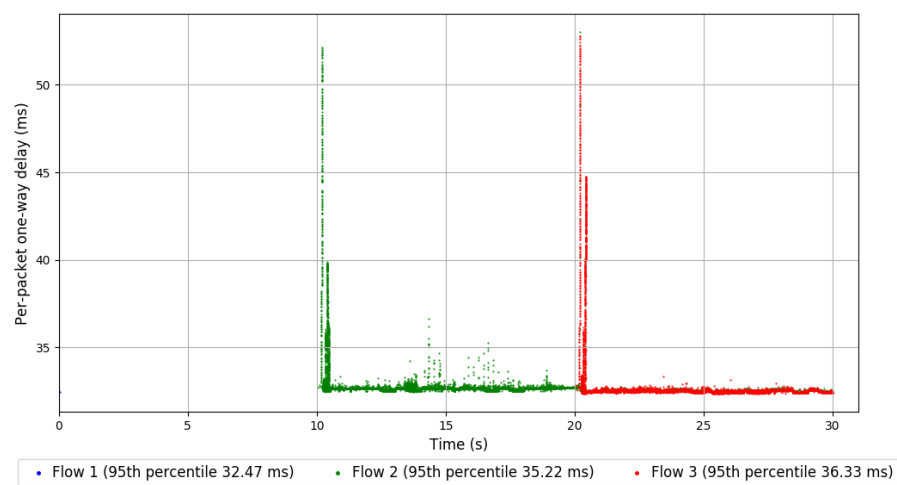
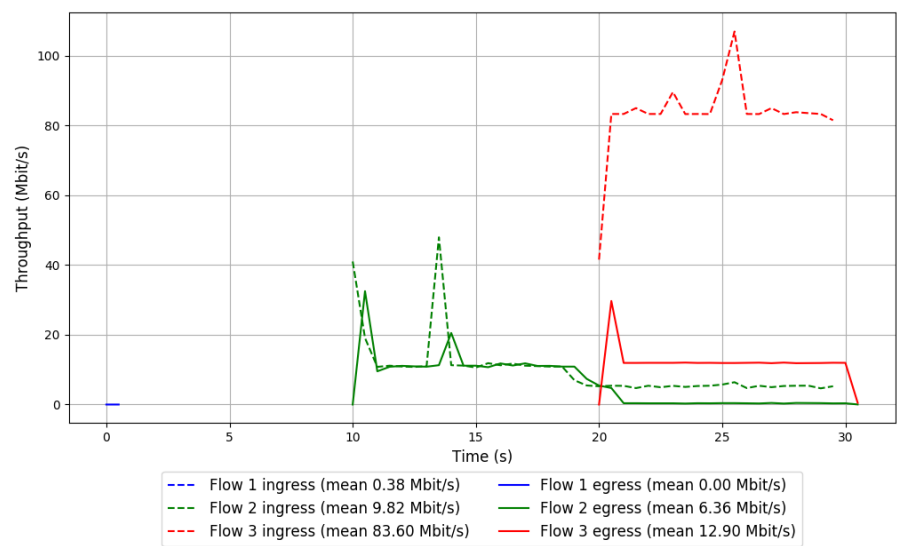


Run 1: Statistics of TaoVA-100x

Start at: 2019-07-12 04:15:11  
End at: 2019-07-12 04:15:41  
Local clock offset: -0.181 ms  
Remote clock offset: -6.015 ms

# Below is generated by plot.py at 2019-07-12 08:00:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.52 Mbit/s  
95th percentile per-packet one-way delay: 35.487 ms  
Loss rate: 75.18%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 32.470 ms  
Loss rate: 95.92%  
-- Flow 2:  
Average throughput: 6.36 Mbit/s  
95th percentile per-packet one-way delay: 35.217 ms  
Loss rate: 35.29%  
-- Flow 3:  
Average throughput: 12.90 Mbit/s  
95th percentile per-packet one-way delay: 36.332 ms  
Loss rate: 84.57%

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



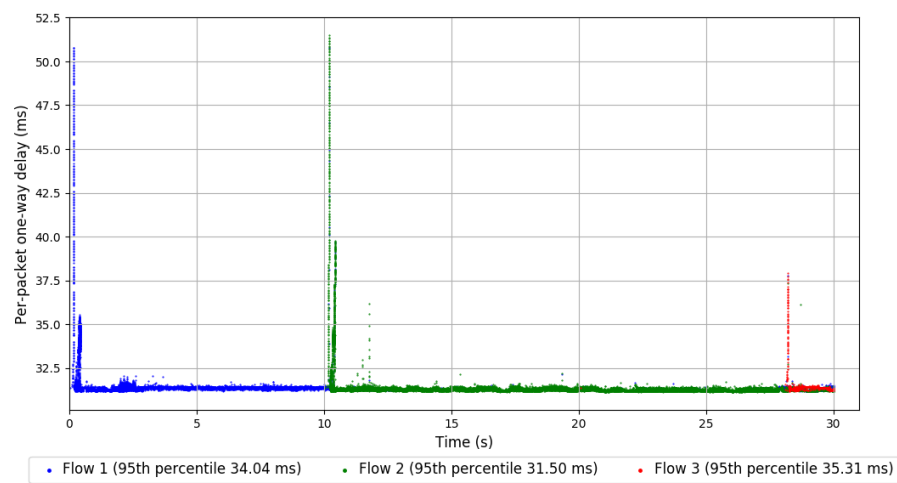
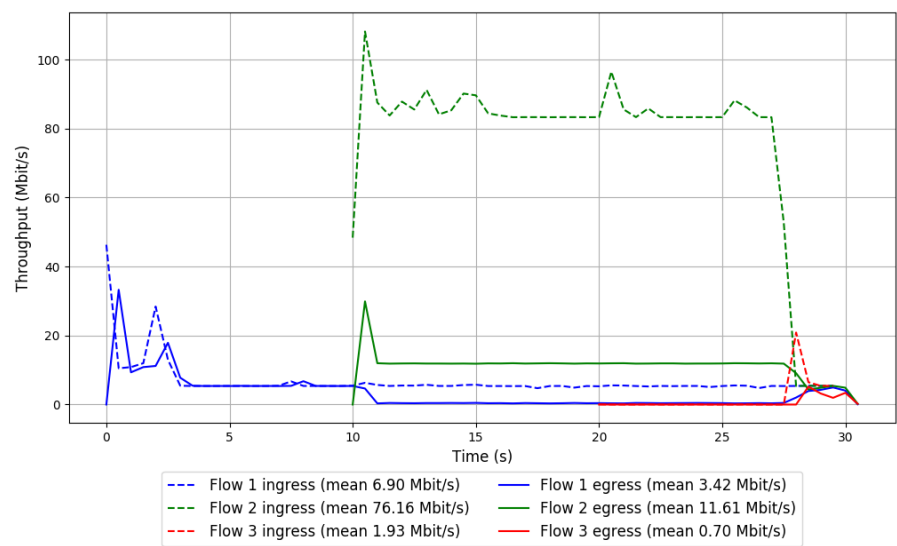


Run 2: Statistics of TaoVA-100x

Start at: 2019-07-12 05:03:18  
End at: 2019-07-12 05:03:48  
Local clock offset: -3.232 ms  
Remote clock offset: -8.801 ms

# Below is generated by plot.py at 2019-07-12 08:00:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 11.38 Mbit/s  
95th percentile per-packet one-way delay: 32.583 ms  
Loss rate: 80.47%  
-- Flow 1:  
Average throughput: 3.42 Mbit/s  
95th percentile per-packet one-way delay: 34.043 ms  
Loss rate: 50.51%  
-- Flow 2:  
Average throughput: 11.61 Mbit/s  
95th percentile per-packet one-way delay: 31.502 ms  
Loss rate: 84.76%  
-- Flow 3:  
Average throughput: 0.70 Mbit/s  
95th percentile per-packet one-way delay: 35.309 ms  
Loss rate: 63.63%

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

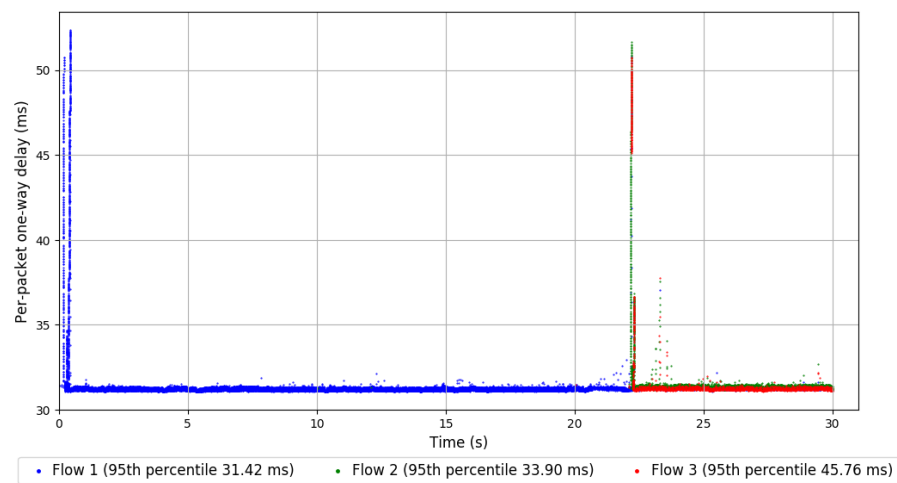
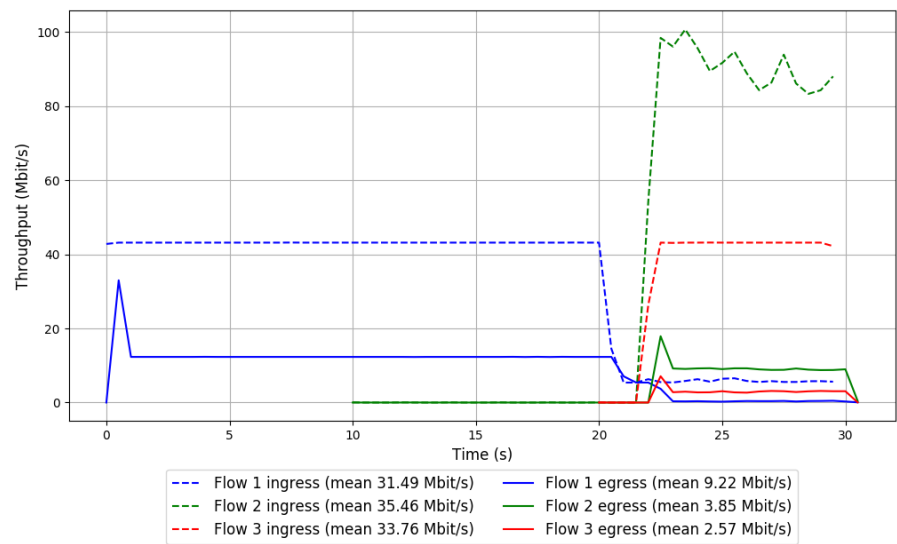


Run 3: Statistics of TaoVA-100x

Start at: 2019-07-12 05:50:19  
End at: 2019-07-12 05:50:49  
Local clock offset: -3.01 ms  
Remote clock offset: -8.868 ms

# Below is generated by plot.py at 2019-07-12 08:00:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.63 Mbit/s  
95th percentile per-packet one-way delay: 32.025 ms  
Loss rate: 80.95%  
-- Flow 1:  
Average throughput: 9.22 Mbit/s  
95th percentile per-packet one-way delay: 31.421 ms  
Loss rate: 70.72%  
-- Flow 2:  
Average throughput: 3.85 Mbit/s  
95th percentile per-packet one-way delay: 33.895 ms  
Loss rate: 89.15%  
-- Flow 3:  
Average throughput: 2.57 Mbit/s  
95th percentile per-packet one-way delay: 45.764 ms  
Loss rate: 92.40%

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

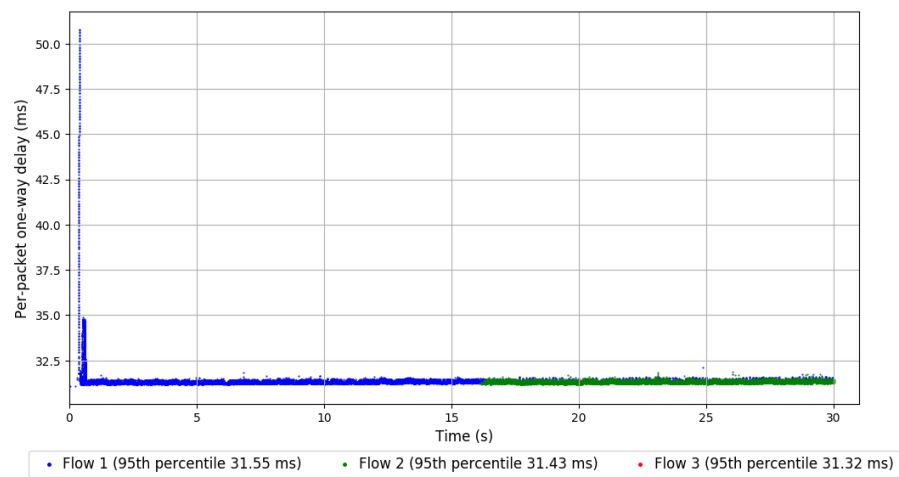
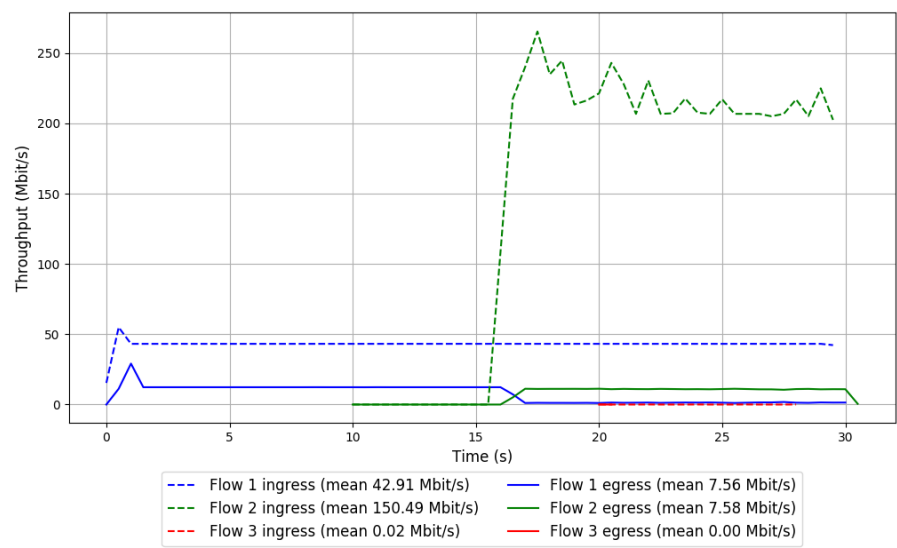


Run 4: Statistics of TaoVA-100x

Start at: 2019-07-12 06:34:25  
End at: 2019-07-12 06:34:55  
Local clock offset: -1.29 ms  
Remote clock offset: -7.357 ms

# Below is generated by plot.py at 2019-07-12 08:01:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.60 Mbit/s  
95th percentile per-packet one-way delay: 31.472 ms  
Loss rate: 91.20%  
-- Flow 1:  
Average throughput: 7.56 Mbit/s  
95th percentile per-packet one-way delay: 31.548 ms  
Loss rate: 82.41%  
-- Flow 2:  
Average throughput: 7.58 Mbit/s  
95th percentile per-packet one-way delay: 31.433 ms  
Loss rate: 94.97%  
-- Flow 3:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 31.316 ms  
Loss rate: 99.16%

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

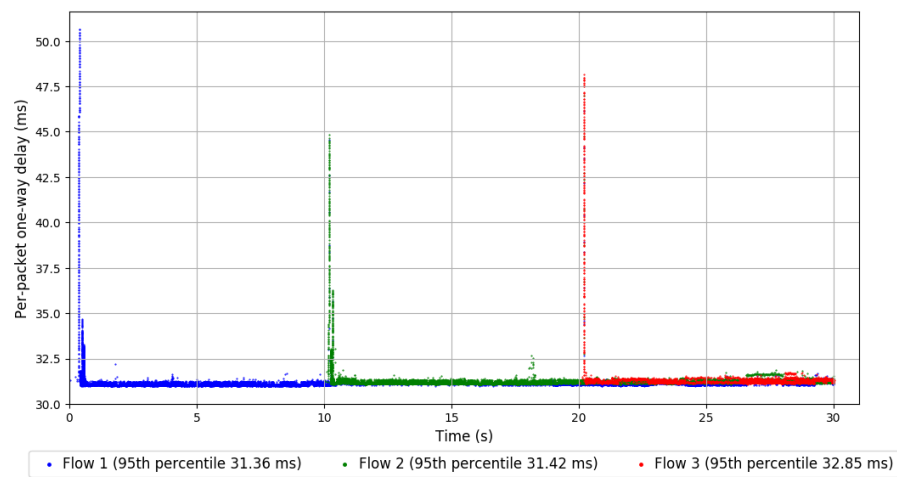
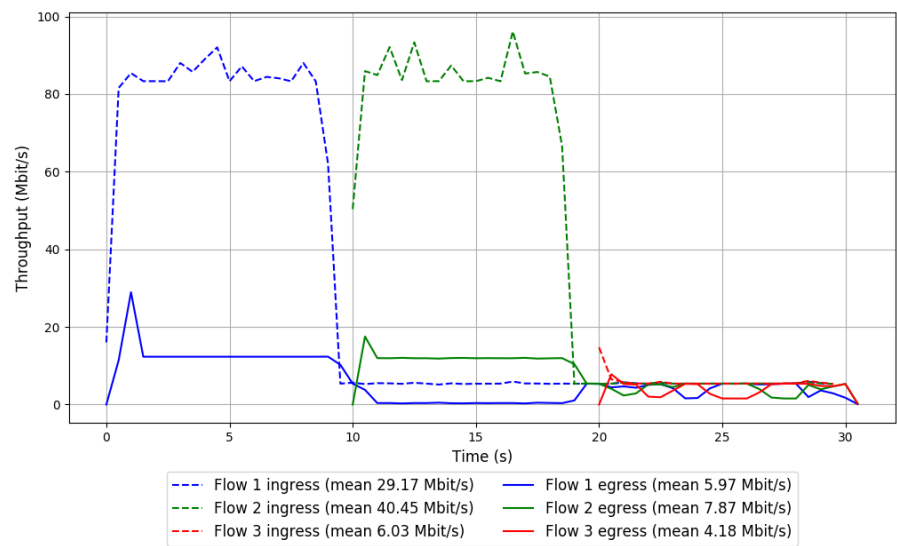


Run 5: Statistics of TaoVA-100x

Start at: 2019-07-12 07:15:26  
End at: 2019-07-12 07:15:56  
Local clock offset: -1.299 ms  
Remote clock offset: -7.269 ms

# Below is generated by plot.py at 2019-07-12 08:01:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.60 Mbit/s  
95th percentile per-packet one-way delay: 31.453 ms  
Loss rate: 78.33%  
-- Flow 1:  
Average throughput: 5.97 Mbit/s  
95th percentile per-packet one-way delay: 31.365 ms  
Loss rate: 79.55%  
-- Flow 2:  
Average throughput: 7.87 Mbit/s  
95th percentile per-packet one-way delay: 31.424 ms  
Loss rate: 80.55%  
-- Flow 3:  
Average throughput: 4.18 Mbit/s  
95th percentile per-packet one-way delay: 32.847 ms  
Loss rate: 30.70%

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



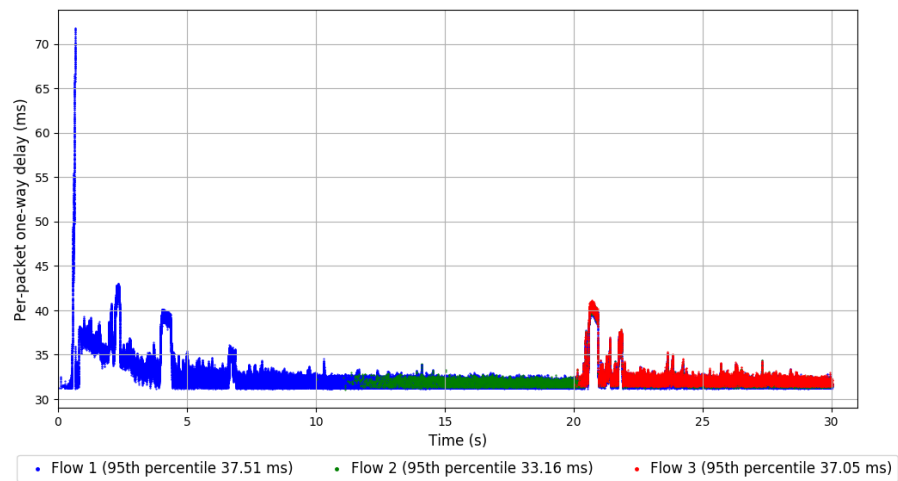
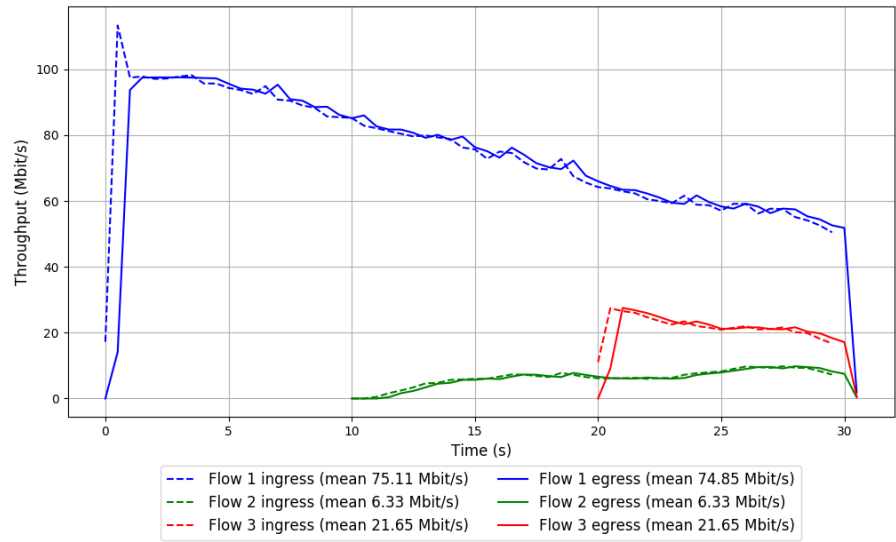


Run 1: Statistics of TCP Vegas

Start at: 2019-07-12 04:25:29  
End at: 2019-07-12 04:25:59  
Local clock offset: -0.246 ms  
Remote clock offset: -7.518 ms

# Below is generated by plot.py at 2019-07-12 08:01:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.26 Mbit/s  
95th percentile per-packet one-way delay: 37.390 ms  
Loss rate: 0.30%  
-- Flow 1:  
Average throughput: 74.85 Mbit/s  
95th percentile per-packet one-way delay: 37.511 ms  
Loss rate: 0.35%  
-- Flow 2:  
Average throughput: 6.33 Mbit/s  
95th percentile per-packet one-way delay: 33.162 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 21.65 Mbit/s  
95th percentile per-packet one-way delay: 37.050 ms  
Loss rate: 0.00%

# Run 1: Report of TCP Vegas — Data Link

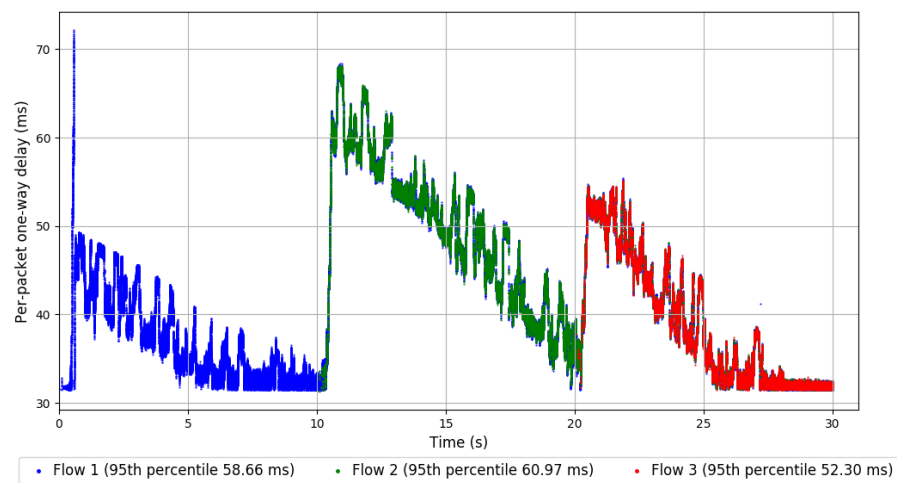
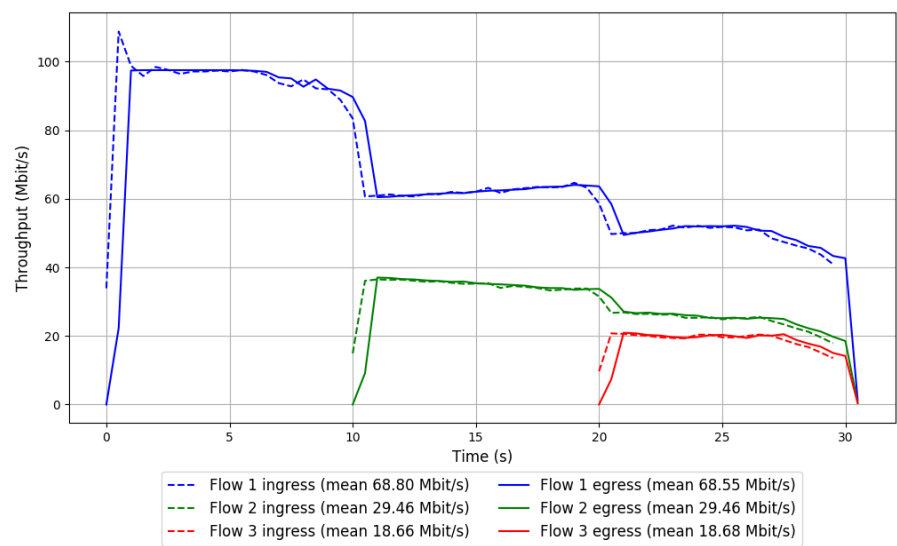


Run 2: Statistics of TCP Vegas

Start at: 2019-07-12 05:14:00  
End at: 2019-07-12 05:14:30  
Local clock offset: -3.991 ms  
Remote clock offset: -9.124 ms

# Below is generated by plot.py at 2019-07-12 08:01:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.38 Mbit/s  
95th percentile per-packet one-way delay: 59.167 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 68.55 Mbit/s  
95th percentile per-packet one-way delay: 58.657 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 29.46 Mbit/s  
95th percentile per-packet one-way delay: 60.967 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 18.68 Mbit/s  
95th percentile per-packet one-way delay: 52.300 ms  
Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link

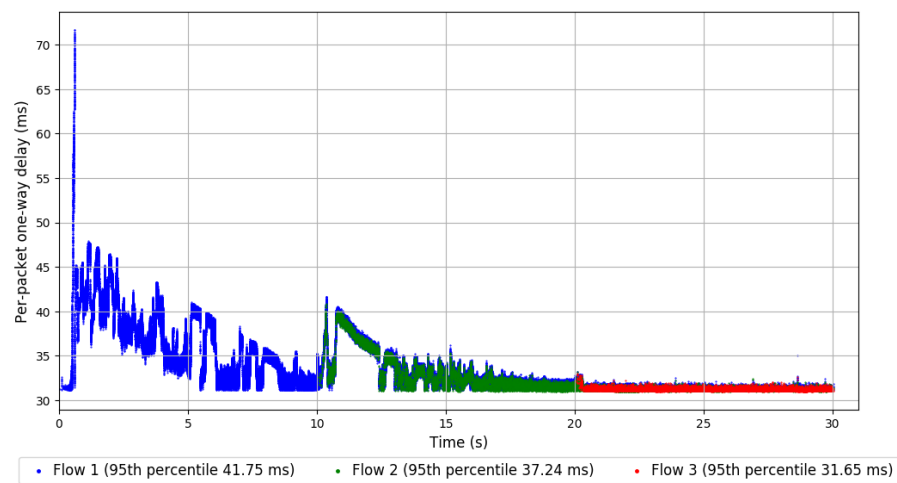
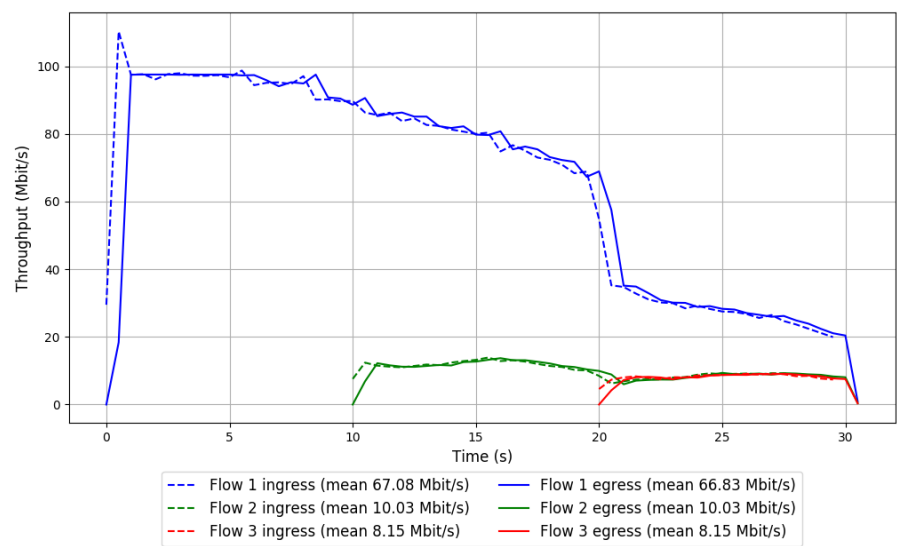


Run 3: Statistics of TCP Vegas

Start at: 2019-07-12 06:00:45  
End at: 2019-07-12 06:01:15  
Local clock offset: -2.943 ms  
Remote clock offset: -8.397 ms

# Below is generated by plot.py at 2019-07-12 08:01:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.22 Mbit/s  
95th percentile per-packet one-way delay: 41.296 ms  
Loss rate: 0.34%  
-- Flow 1:  
Average throughput: 66.83 Mbit/s  
95th percentile per-packet one-way delay: 41.750 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 10.03 Mbit/s  
95th percentile per-packet one-way delay: 37.238 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 8.15 Mbit/s  
95th percentile per-packet one-way delay: 31.646 ms  
Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link

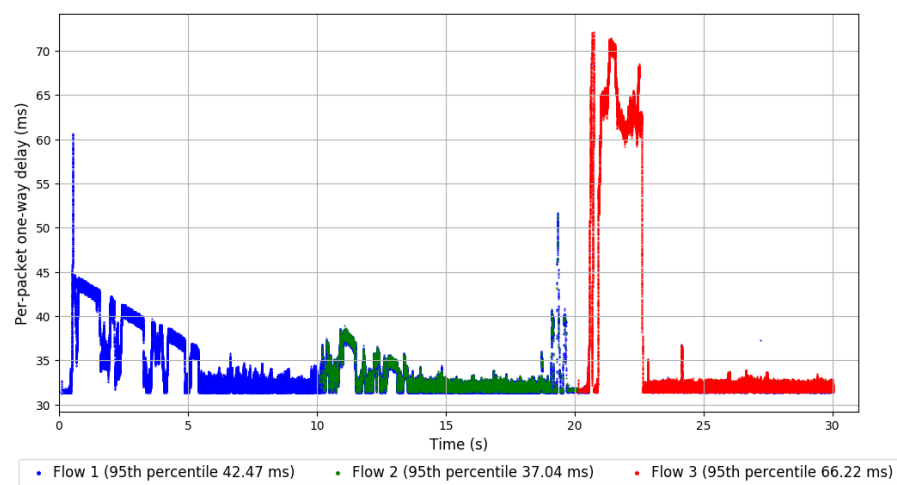
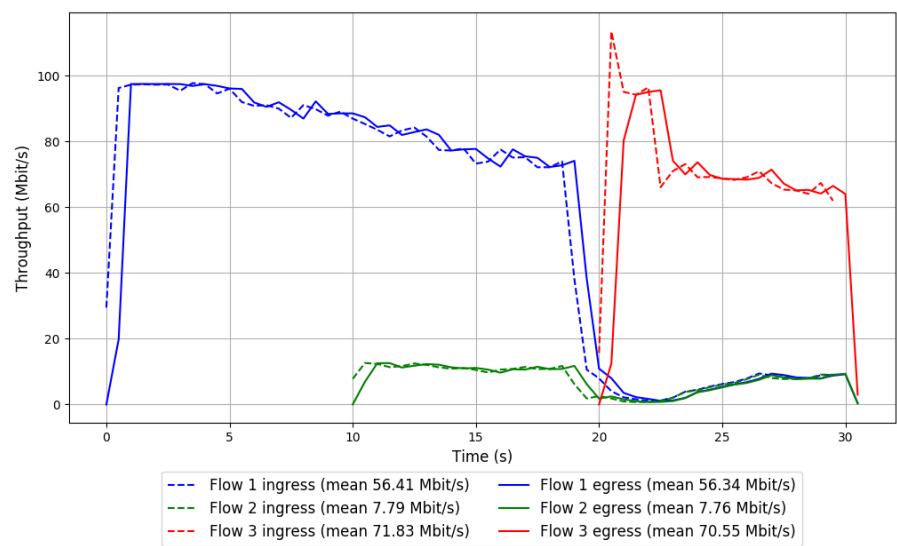


Run 4: Statistics of TCP Vegas

Start at: 2019-07-12 06:44:41  
End at: 2019-07-12 06:45:11  
Local clock offset: 0.129 ms  
Remote clock offset: -7.279 ms

# Below is generated by plot.py at 2019-07-12 08:01:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.97 Mbit/s  
95th percentile per-packet one-way delay: 61.865 ms  
Loss rate: 0.59%  
-- Flow 1:  
Average throughput: 56.34 Mbit/s  
95th percentile per-packet one-way delay: 42.467 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 7.76 Mbit/s  
95th percentile per-packet one-way delay: 37.044 ms  
Loss rate: 0.30%  
-- Flow 3:  
Average throughput: 70.55 Mbit/s  
95th percentile per-packet one-way delay: 66.219 ms  
Loss rate: 1.78%

Run 4: Report of TCP Vegas — Data Link



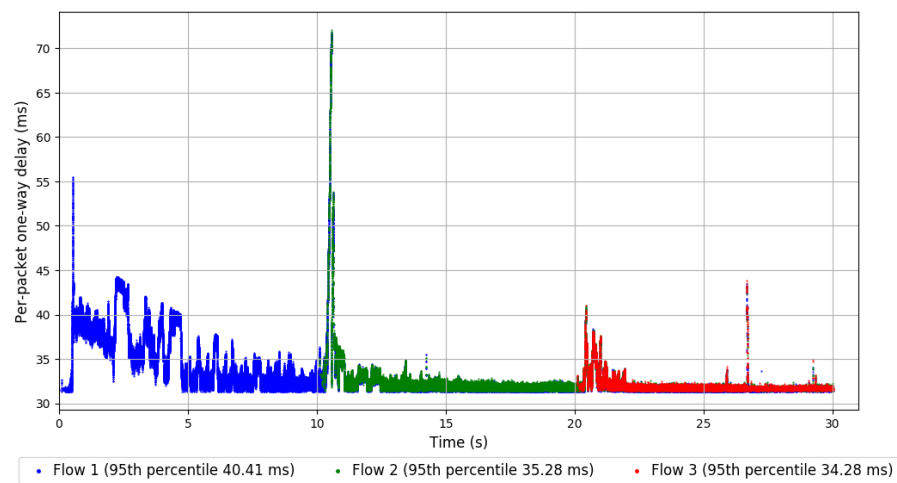
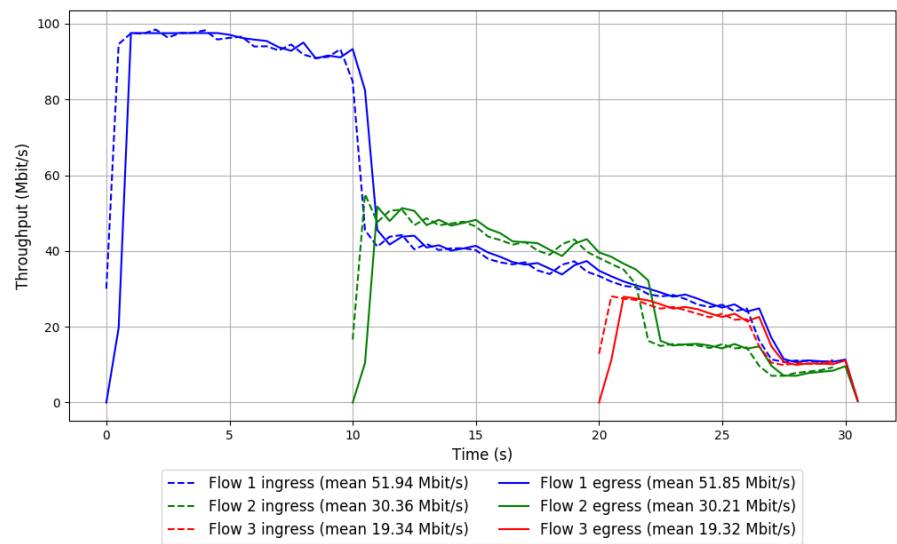


Run 5: Statistics of TCP Vegas

Start at: 2019-07-12 07:24:34  
End at: 2019-07-12 07:25:04  
Local clock offset: -1.572 ms  
Remote clock offset: -7.153 ms

# Below is generated by plot.py at 2019-07-12 08:01:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.40 Mbit/s  
95th percentile per-packet one-way delay: 39.720 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 51.85 Mbit/s  
95th percentile per-packet one-way delay: 40.407 ms  
Loss rate: 0.17%  
-- Flow 2:  
Average throughput: 30.21 Mbit/s  
95th percentile per-packet one-way delay: 35.276 ms  
Loss rate: 0.50%  
-- Flow 3:  
Average throughput: 19.32 Mbit/s  
95th percentile per-packet one-way delay: 34.280 ms  
Loss rate: 0.06%

Run 5: Report of TCP Vegas — Data Link

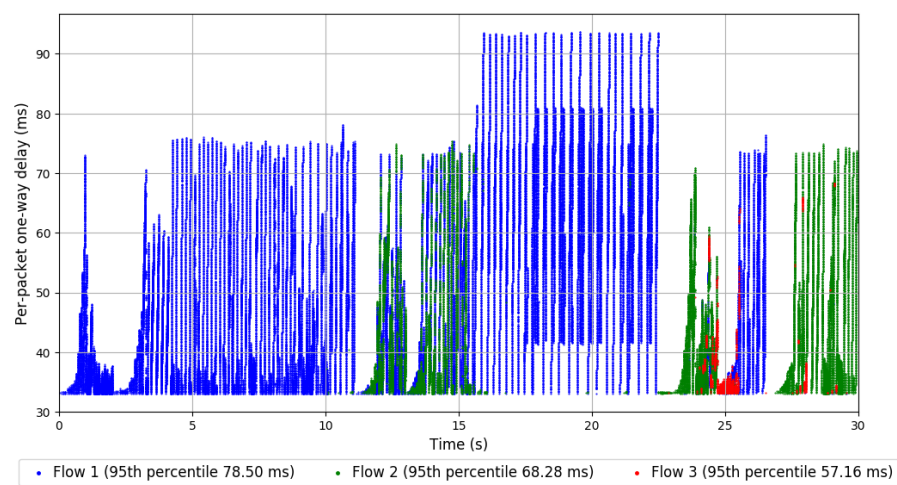
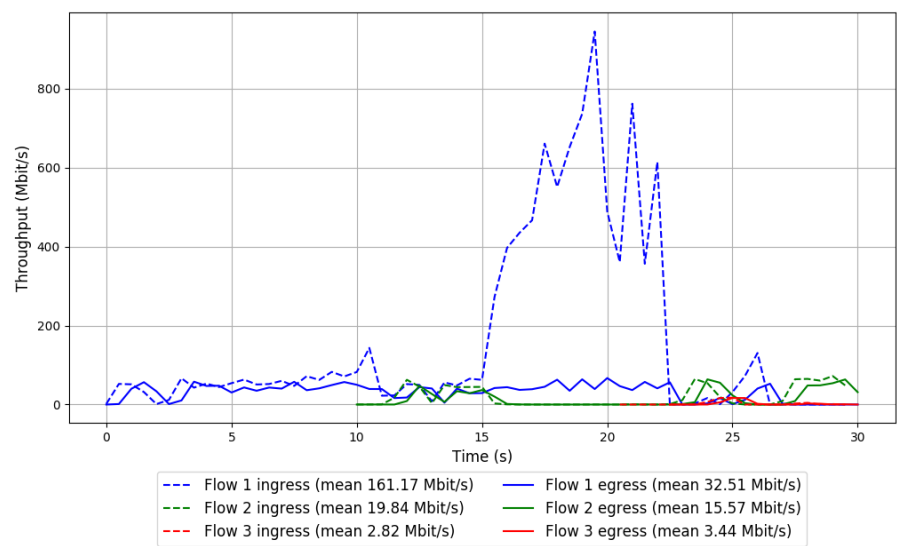


Run 1: Statistics of Verus

Start at: 2019-07-12 04:28:16  
End at: 2019-07-12 04:28:46  
Local clock offset: -0.252 ms  
Remote clock offset: -5.843 ms

# Below is generated by plot.py at 2019-07-12 08:02:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 43.22 Mbit/s  
95th percentile per-packet one-way delay: 75.506 ms  
Loss rate: 75.09%  
-- Flow 1:  
Average throughput: 32.51 Mbit/s  
95th percentile per-packet one-way delay: 78.505 ms  
Loss rate: 79.88%  
-- Flow 2:  
Average throughput: 15.57 Mbit/s  
95th percentile per-packet one-way delay: 68.282 ms  
Loss rate: 21.52%  
-- Flow 3:  
Average throughput: 3.44 Mbit/s  
95th percentile per-packet one-way delay: 57.155 ms  
Loss rate: 6.76%

Run 1: Report of Verus — Data Link

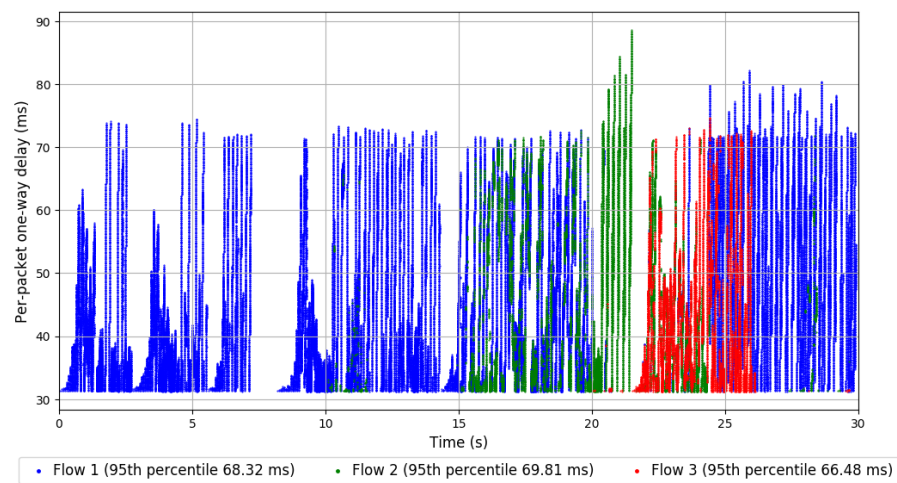
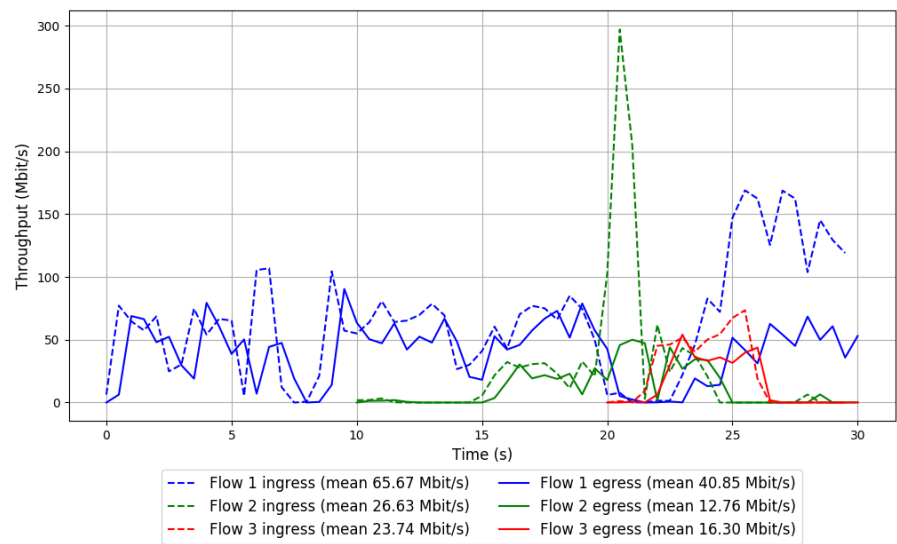


Run 2: Statistics of Verus

Start at: 2019-07-12 05:16:40  
End at: 2019-07-12 05:17:10  
Local clock offset: -4.142 ms  
Remote clock offset: -9.283 ms

# Below is generated by plot.py at 2019-07-12 08:02:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 54.46 Mbit/s  
95th percentile per-packet one-way delay: 68.498 ms  
Loss rate: 40.04%  
-- Flow 1:  
Average throughput: 40.85 Mbit/s  
95th percentile per-packet one-way delay: 68.320 ms  
Loss rate: 37.75%  
-- Flow 2:  
Average throughput: 12.76 Mbit/s  
95th percentile per-packet one-way delay: 69.810 ms  
Loss rate: 52.22%  
-- Flow 3:  
Average throughput: 16.30 Mbit/s  
95th percentile per-packet one-way delay: 66.483 ms  
Loss rate: 31.79%

Run 2: Report of Verus — Data Link

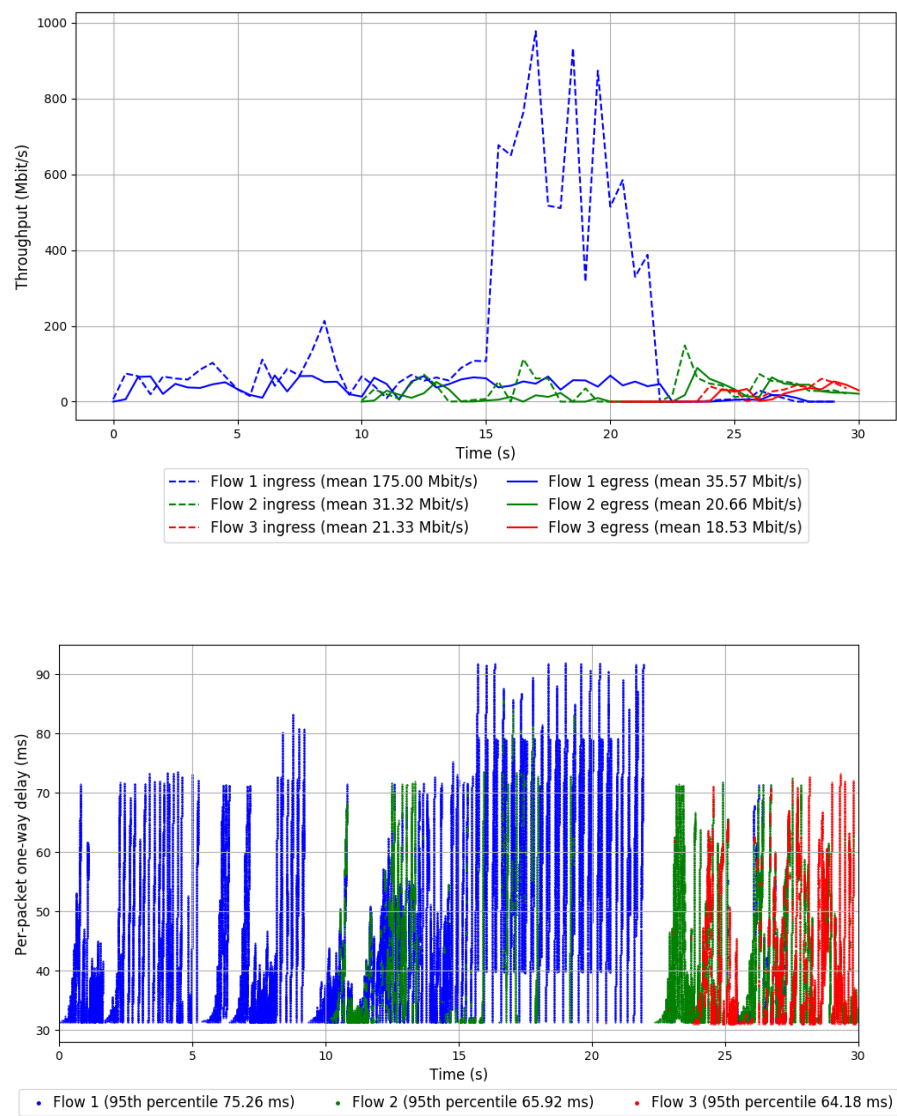


Run 3: Statistics of Verus

Start at: 2019-07-12 06:02:54  
End at: 2019-07-12 06:03:24  
Local clock offset: -2.917 ms  
Remote clock offset: -8.229 ms

# Below is generated by plot.py at 2019-07-12 08:02:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 53.91 Mbit/s  
95th percentile per-packet one-way delay: 71.777 ms  
Loss rate: 72.89%  
-- Flow 1:  
Average throughput: 35.57 Mbit/s  
95th percentile per-packet one-way delay: 75.263 ms  
Loss rate: 79.95%  
-- Flow 2:  
Average throughput: 20.66 Mbit/s  
95th percentile per-packet one-way delay: 65.918 ms  
Loss rate: 34.03%  
-- Flow 3:  
Average throughput: 18.53 Mbit/s  
95th percentile per-packet one-way delay: 64.183 ms  
Loss rate: 13.08%

Run 3: Report of Verus — Data Link



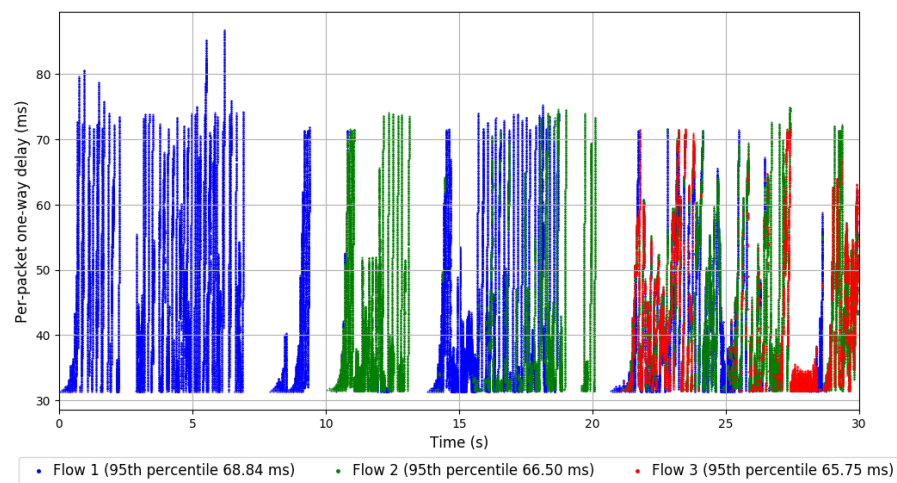
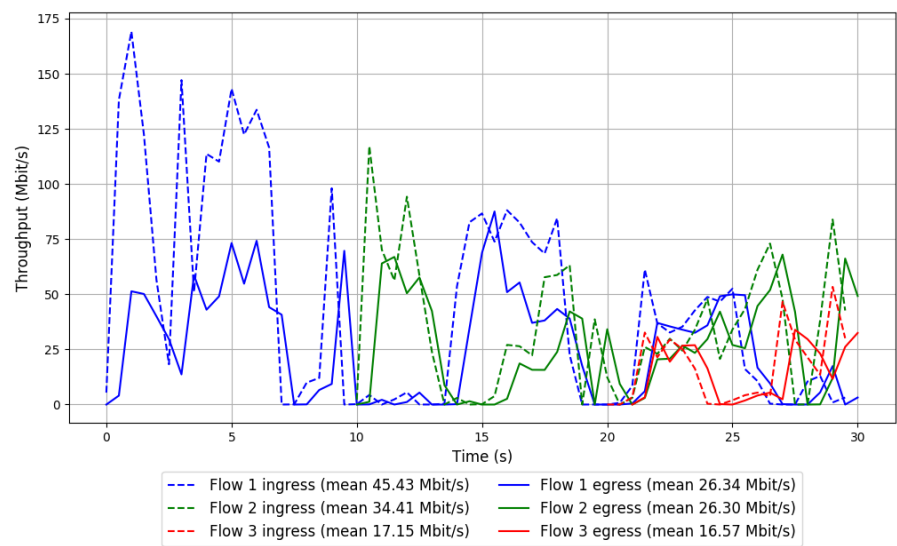


Run 4: Statistics of Verus

Start at: 2019-07-12 06:46:33  
End at: 2019-07-12 06:47:03  
Local clock offset: 0.268 ms  
Remote clock offset: -7.374 ms

# Below is generated by plot.py at 2019-07-12 08:02:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 48.75 Mbit/s  
95th percentile per-packet one-way delay: 67.871 ms  
Loss rate: 34.07%  
-- Flow 1:  
Average throughput: 26.34 Mbit/s  
95th percentile per-packet one-way delay: 68.838 ms  
Loss rate: 42.00%  
-- Flow 2:  
Average throughput: 26.30 Mbit/s  
95th percentile per-packet one-way delay: 66.505 ms  
Loss rate: 23.51%  
-- Flow 3:  
Average throughput: 16.57 Mbit/s  
95th percentile per-packet one-way delay: 65.749 ms  
Loss rate: 13.07%

Run 4: Report of Verus — Data Link

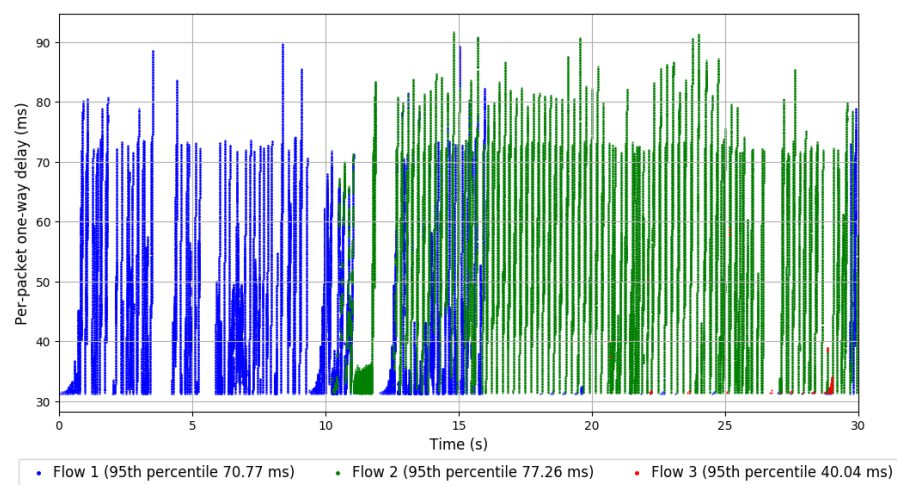
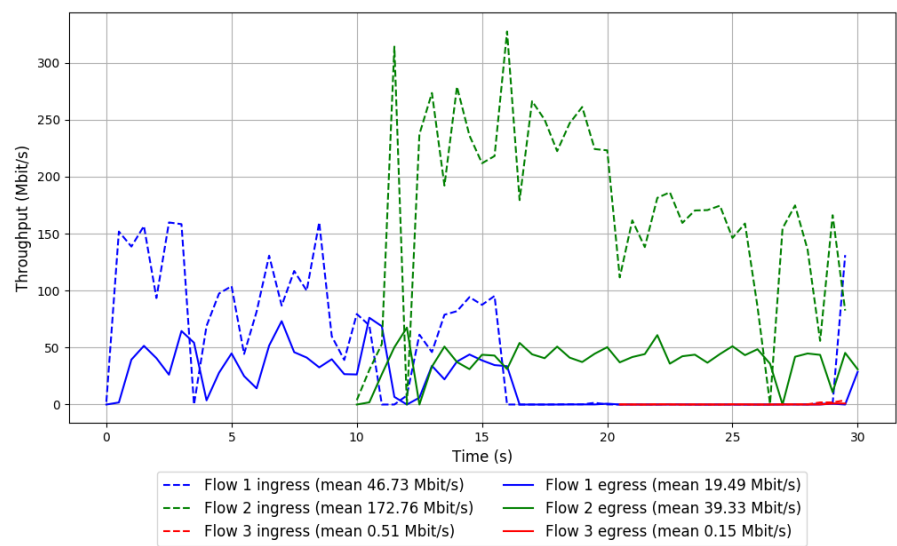


Run 5: Statistics of Verus

Start at: 2019-07-12 07:26:39  
End at: 2019-07-12 07:27:09  
Local clock offset: -1.591 ms  
Remote clock offset: -7.179 ms

# Below is generated by plot.py at 2019-07-12 08:02:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 45.63 Mbit/s  
95th percentile per-packet one-way delay: 74.811 ms  
Loss rate: 71.75%  
-- Flow 1:  
Average throughput: 19.49 Mbit/s  
95th percentile per-packet one-way delay: 70.774 ms  
Loss rate: 58.24%  
-- Flow 2:  
Average throughput: 39.33 Mbit/s  
95th percentile per-packet one-way delay: 77.259 ms  
Loss rate: 77.23%  
-- Flow 3:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 40.042 ms  
Loss rate: 72.15%

Run 5: Report of Verus — Data Link

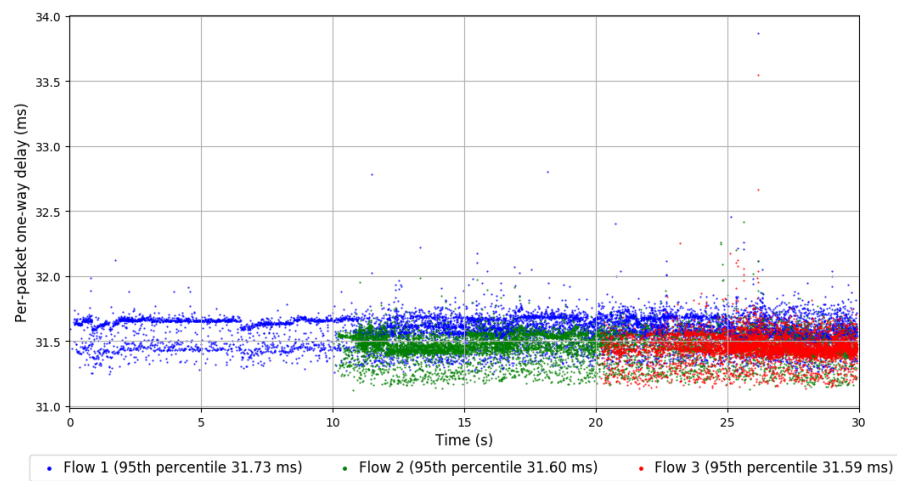
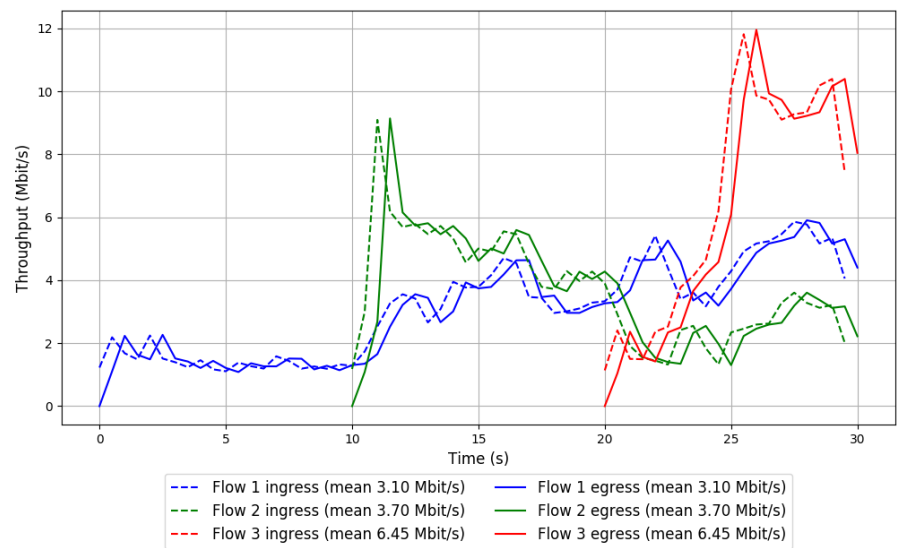


Run 1: Statistics of PCC-Vivace

Start at: 2019-07-12 04:19:43  
End at: 2019-07-12 04:20:13  
Local clock offset: -0.212 ms  
Remote clock offset: -7.236 ms

# Below is generated by plot.py at 2019-07-12 08:02:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 7.70 Mbit/s  
95th percentile per-packet one-way delay: 31.692 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 3.10 Mbit/s  
95th percentile per-packet one-way delay: 31.725 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 3.70 Mbit/s  
95th percentile per-packet one-way delay: 31.603 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 6.45 Mbit/s  
95th percentile per-packet one-way delay: 31.594 ms  
Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link

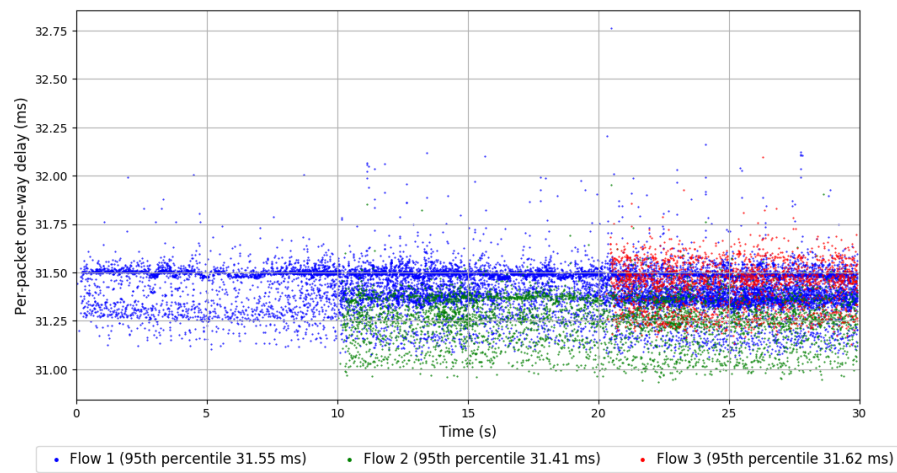
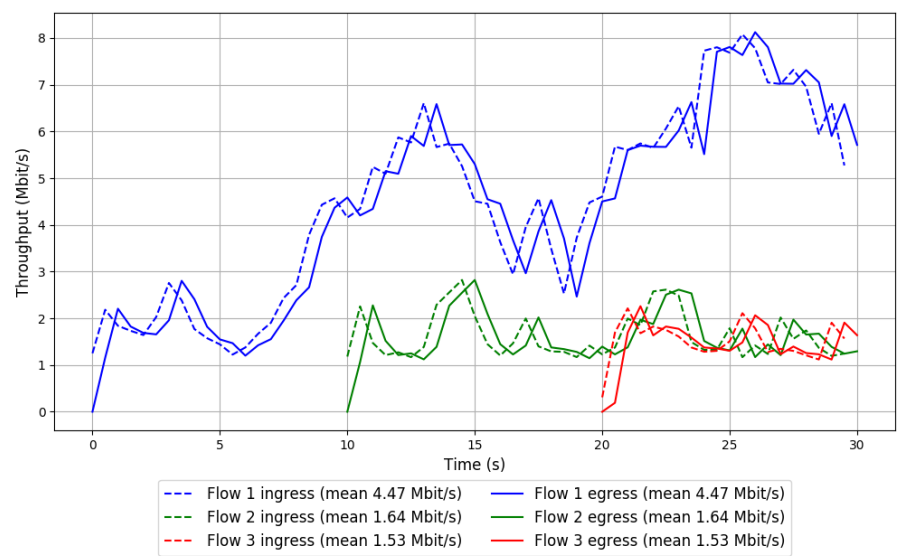


Run 2: Statistics of PCC-Vivace

Start at: 2019-07-12 05:08:46  
End at: 2019-07-12 05:09:16  
Local clock offset: -3.662 ms  
Remote clock offset: -9.024 ms

# Below is generated by plot.py at 2019-07-12 08:02:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 6.07 Mbit/s  
95th percentile per-packet one-way delay: 31.550 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 4.47 Mbit/s  
95th percentile per-packet one-way delay: 31.545 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 1.64 Mbit/s  
95th percentile per-packet one-way delay: 31.414 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 1.53 Mbit/s  
95th percentile per-packet one-way delay: 31.618 ms  
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



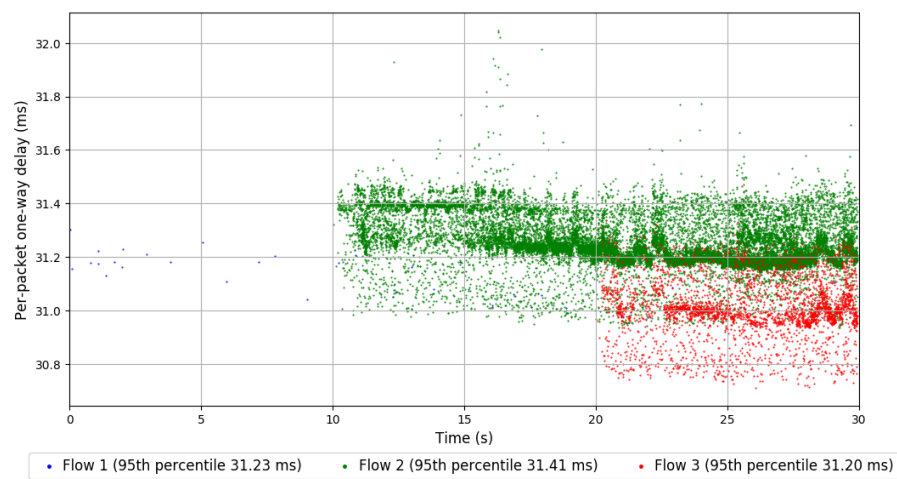
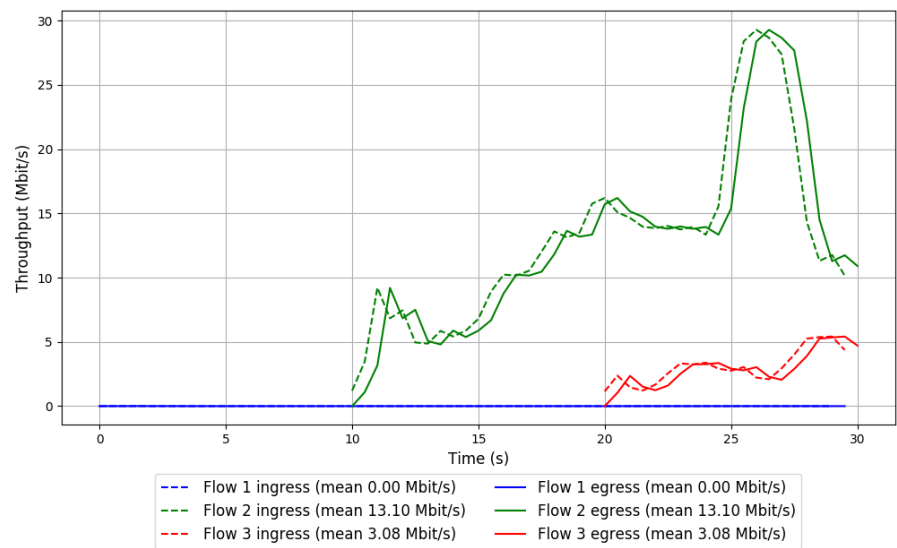


Run 3: Statistics of PCC-Vivace

Start at: 2019-07-12 05:55:48  
End at: 2019-07-12 05:56:18  
Local clock offset: -2.992 ms  
Remote clock offset: -8.625 ms

```
# Below is generated by plot.py at 2019-07-12 08:02:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.73 Mbit/s
95th percentile per-packet one-way delay: 31.401 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 31.228 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.10 Mbit/s
95th percentile per-packet one-way delay: 31.406 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.08 Mbit/s
95th percentile per-packet one-way delay: 31.197 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Vivace — Data Link

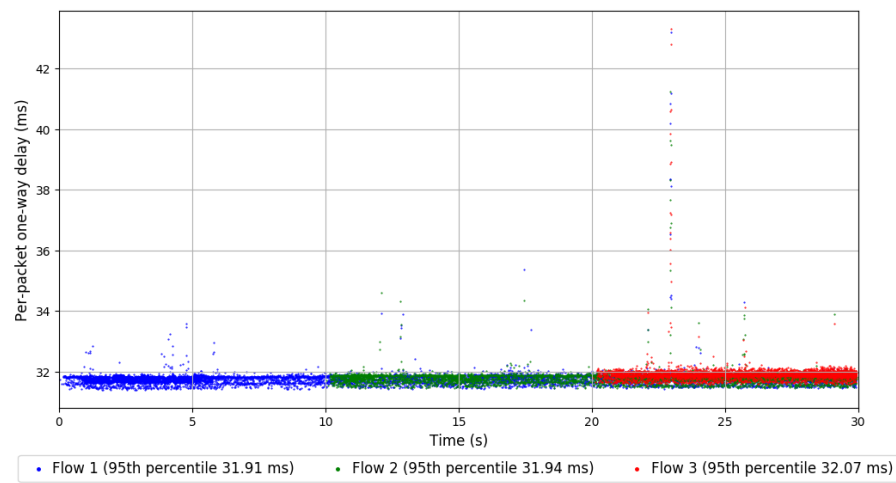
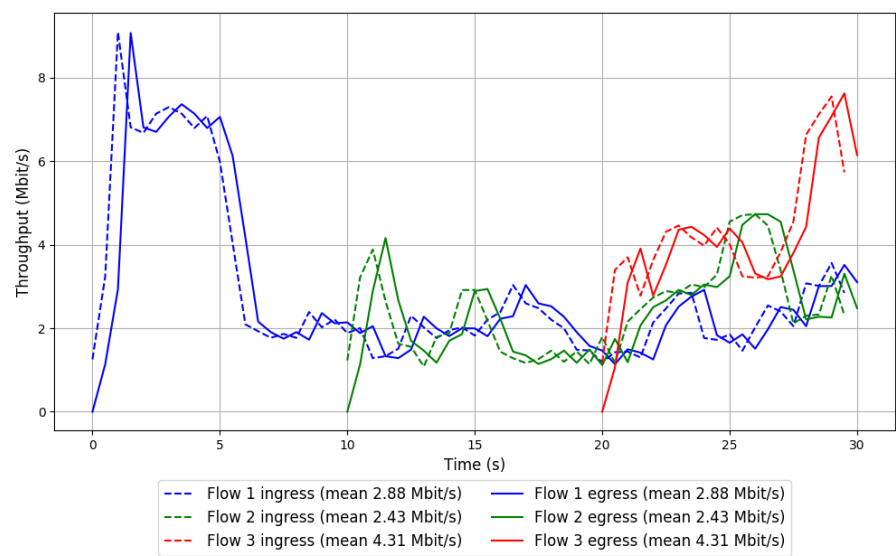


Run 4: Statistics of PCC-Vivace

Start at: 2019-07-12 06:39:51  
End at: 2019-07-12 06:40:21  
Local clock offset: -0.425 ms  
Remote clock offset: -7.111 ms

# Below is generated by plot.py at 2019-07-12 08:02:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 5.92 Mbit/s  
95th percentile per-packet one-way delay: 32.002 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 2.88 Mbit/s  
95th percentile per-packet one-way delay: 31.910 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 2.43 Mbit/s  
95th percentile per-packet one-way delay: 31.939 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 4.31 Mbit/s  
95th percentile per-packet one-way delay: 32.070 ms  
Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link

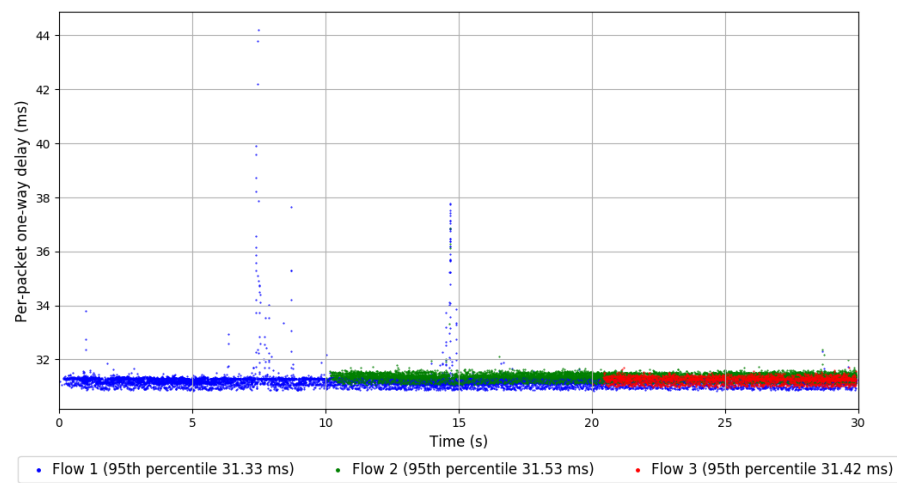
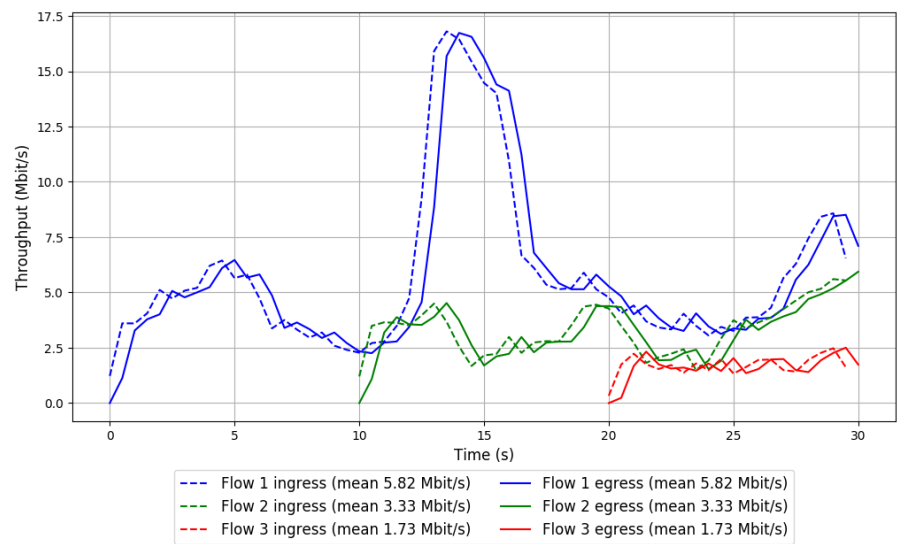


Run 5: Statistics of PCC-Vivace

Start at: 2019-07-12 07:20:07  
End at: 2019-07-12 07:20:37  
Local clock offset: -1.49 ms  
Remote clock offset: -7.264 ms

# Below is generated by plot.py at 2019-07-12 08:02:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.60 Mbit/s  
95th percentile per-packet one-way delay: 31.487 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 5.82 Mbit/s  
95th percentile per-packet one-way delay: 31.331 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 3.33 Mbit/s  
95th percentile per-packet one-way delay: 31.533 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 1.73 Mbit/s  
95th percentile per-packet one-way delay: 31.422 ms  
Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link

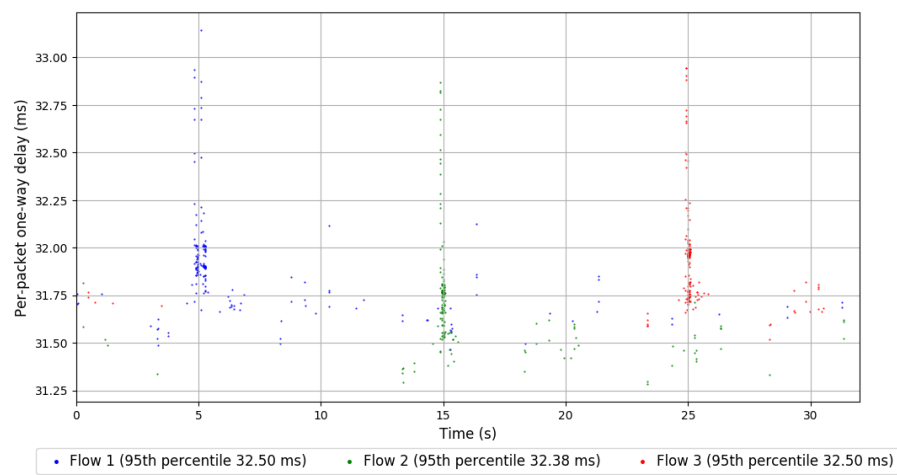
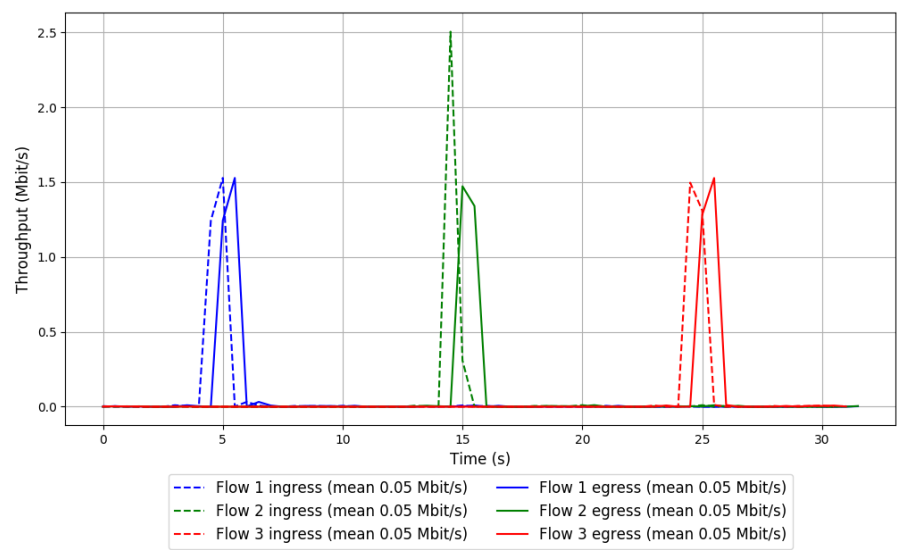


Run 1: Statistics of WebRTC media

Start at: 2019-07-12 04:42:31  
End at: 2019-07-12 04:43:01  
Local clock offset: -1.976 ms  
Remote clock offset: -7.875 ms

# Below is generated by plot.py at 2019-07-12 08:02:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 32.494 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 32.497 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 32.384 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 32.503 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link





Run 2: Statistics of WebRTC media

Start at: 2019-07-12 05:30:23

End at: 2019-07-12 05:30:53

Local clock offset: -4.419 ms

Remote clock offset: -8.95 ms

# Below is generated by plot.py at 2019-07-12 08:02:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 32.248 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 31.796 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 32.417 ms

Loss rate: 0.00%

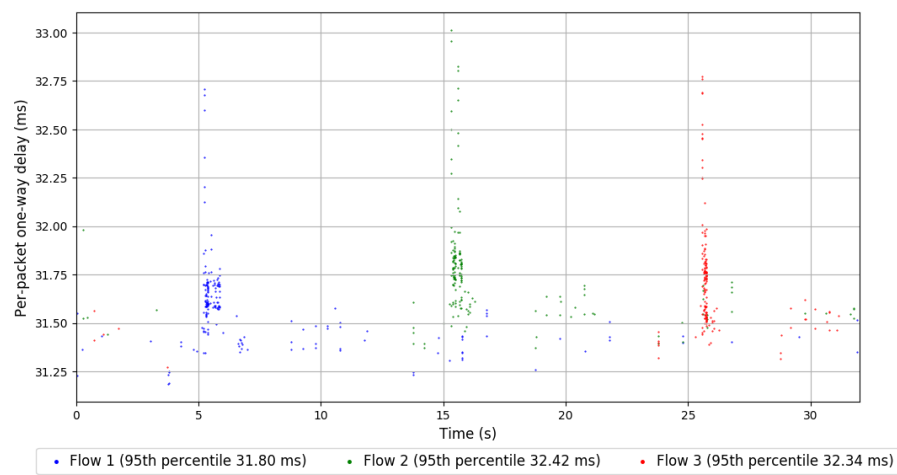
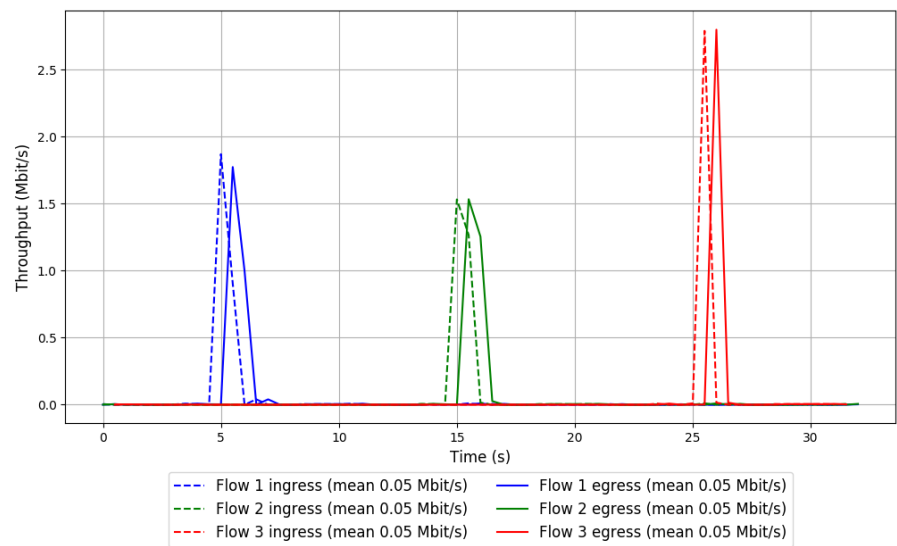
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 32.341 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

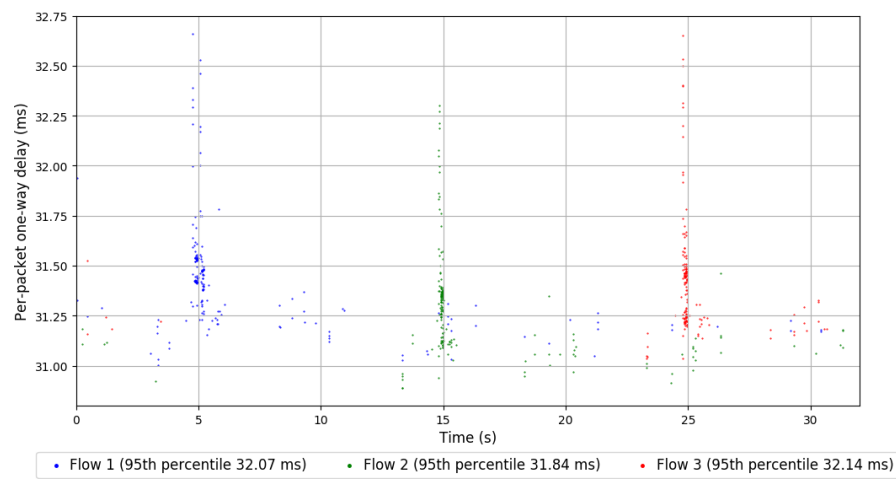
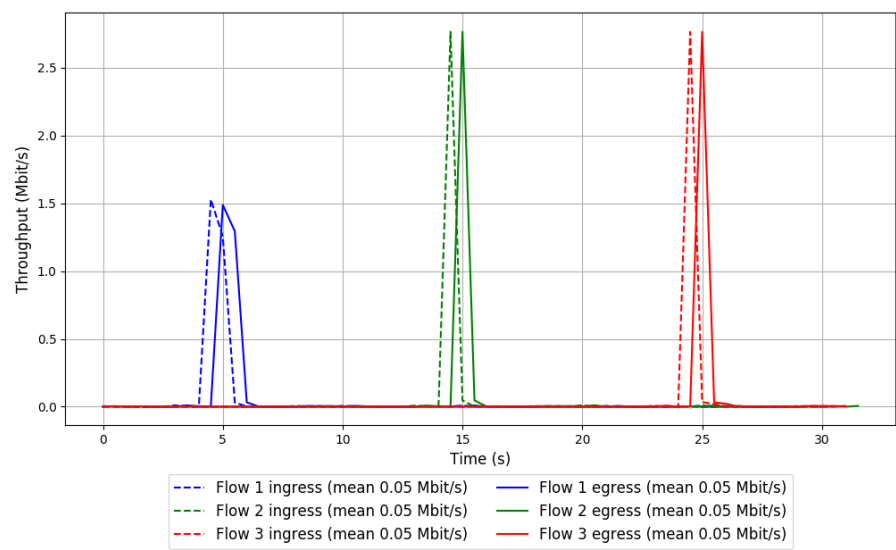


Run 3: Statistics of WebRTC media

Start at: 2019-07-12 06:15:15  
End at: 2019-07-12 06:15:45  
Local clock offset: -2.803 ms  
Remote clock offset: -7.596 ms

# Below is generated by plot.py at 2019-07-12 08:02:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 31.997 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 32.066 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 31.844 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 32.144 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

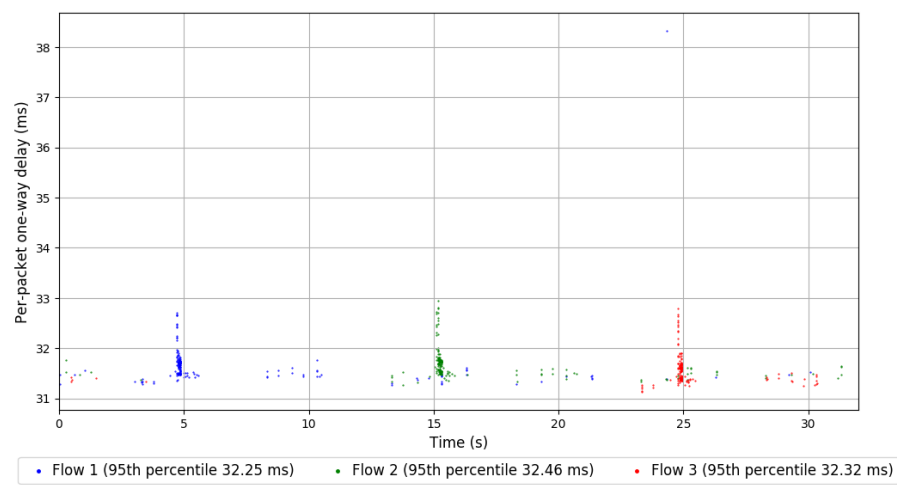
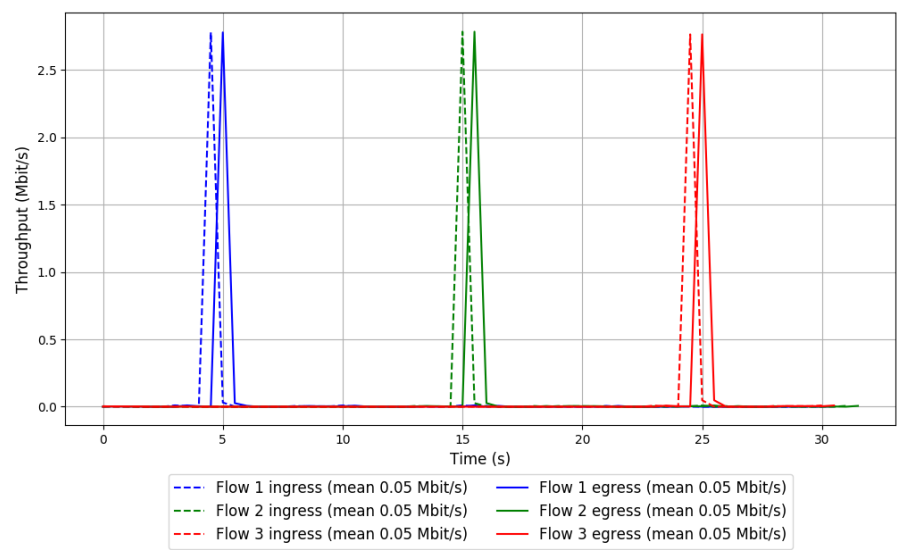


Run 4: Statistics of WebRTC media

Start at: 2019-07-12 06:57:32  
End at: 2019-07-12 06:58:02  
Local clock offset: 0.937 ms  
Remote clock offset: -7.356 ms

# Below is generated by plot.py at 2019-07-12 08:02:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 32.340 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 32.246 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 32.464 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 32.321 ms  
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-07-12 07:36:52  
End at: 2019-07-12 07:37:22  
Local clock offset: -0.403 ms  
Remote clock offset: -7.313 ms

# Below is generated by plot.py at 2019-07-12 08:02:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 32.088 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 32.153 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 31.933 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 32.051 ms  
Loss rate: 0.05%

Run 5: Report of WebRTC media — Data Link

