

## Pantheon Report

Generated at 2019-07-18 01:55:16 (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:

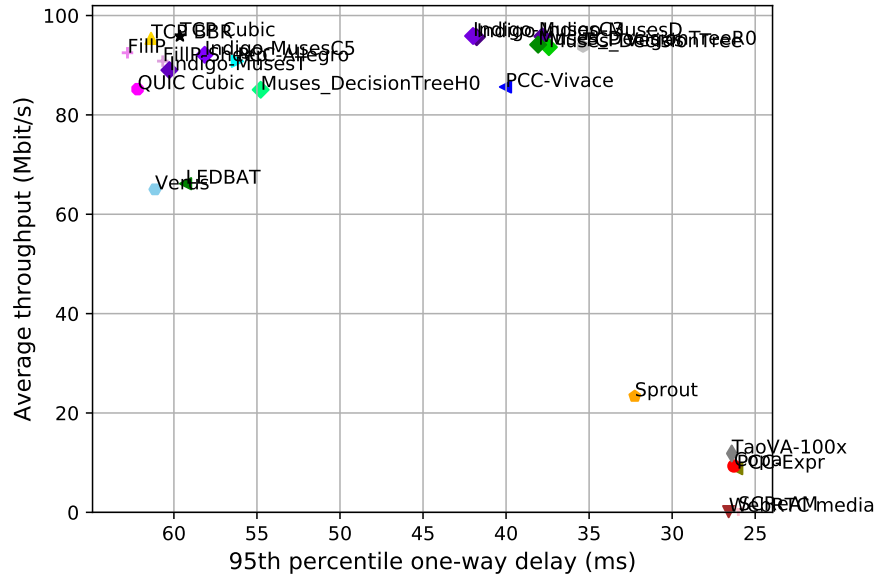
```
Linux 4.15.0-1043-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

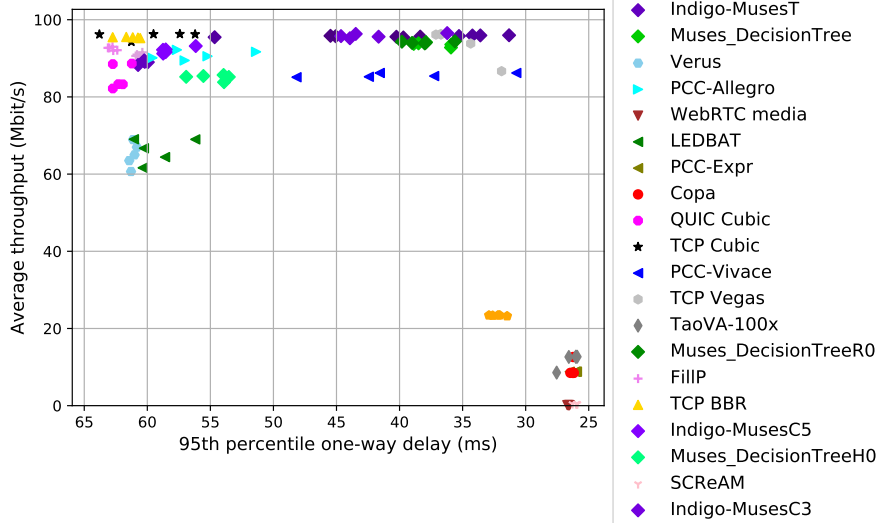
```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
```

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

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



test from AWS California 2 to Mexico, 5 runs of 30s each per scheme  
 3 flows with 10s interval between flows



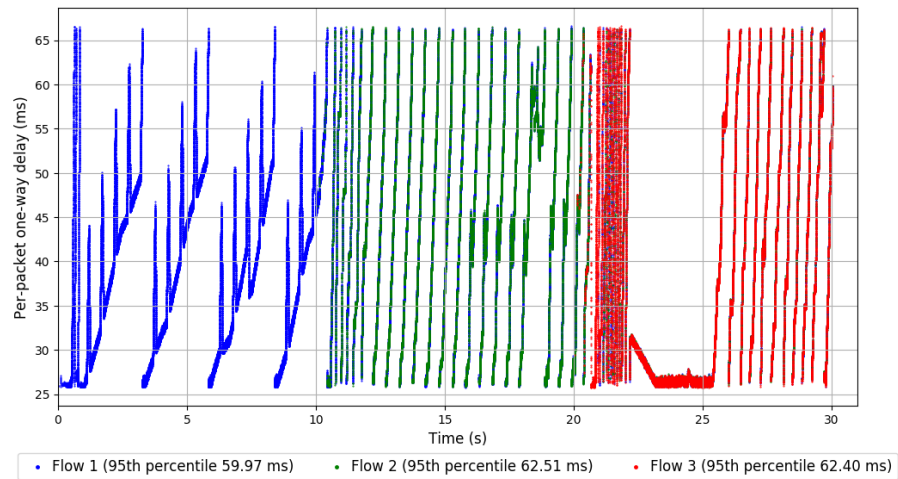
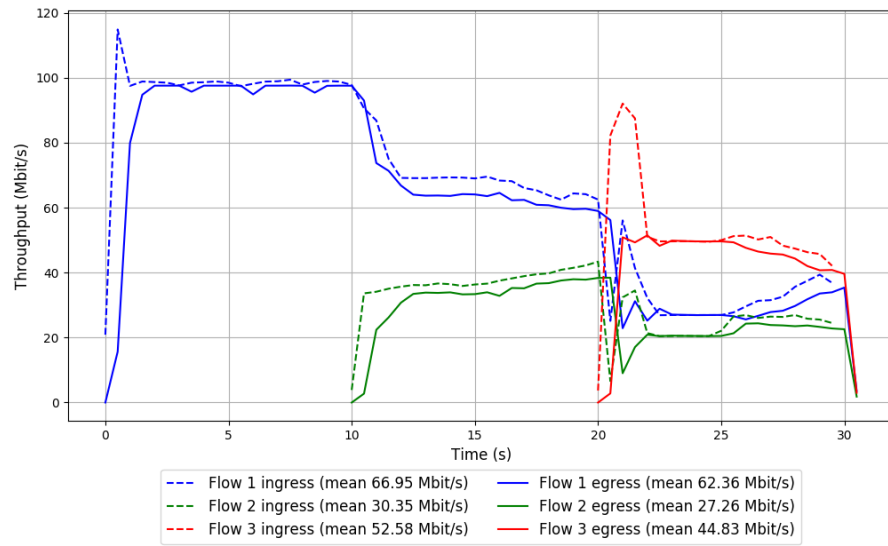
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	64.11	30.11	33.81	60.47	62.28	62.76	5.97	8.69	10.81
Copa	5	1.76	9.53	3.65	25.95	26.62	25.94	92.54	72.17	80.30
TCP Cubic	5	73.59	19.25	28.41	59.66	59.44	57.82	0.74	0.40	0.38
FillP	5	58.01	41.69	20.48	61.40	64.05	63.69	29.91	47.48	54.64
FillP-Sheep	5	54.86	38.95	30.64	58.86	62.13	61.42	8.76	17.35	17.36
Indigo	5	64.39	32.38	30.00	38.76	44.29	45.77	0.04	0.17	0.26
Indigo-MusesC3	5	55.83	47.27	31.63	39.42	41.55	49.41	0.42	0.57	2.24
Indigo-MusesC5	5	57.93	48.39	9.31	56.44	58.91	60.57	10.79	16.35	29.45
Indigo-MusesD	5	55.66	45.78	35.25	32.95	39.10	39.82	0.30	1.60	2.52
Indigo-MusesT	5	60.01	43.74	2.03	58.36	62.10	60.58	22.99	38.61	32.17
LEDBAT	5	39.36	30.55	19.96	58.33	59.89	55.05	0.14	0.07	0.09
Muses_DecisionTree	5	42.35	45.04	66.02	34.71	38.73	40.57	0.21	0.41	0.47
Muses_DecisionTreeH0	5	60.73	33.09	7.85	53.12	57.56	56.05	4.49	8.04	7.62
Muses_DecisionTreeR0	5	48.49	37.22	64.38	34.93	40.06	42.34	0.16	0.19	0.49
PCC-Allegro	5	80.75	9.77	10.75	55.93	58.01	54.43	1.72	1.65	2.50
PCC-Expr	5	0.03	10.17	6.15	25.94	26.10	26.14	85.71	43.55	42.55
QUIC Cubic	5	62.66	24.04	20.02	61.88	62.53	62.78	2.19	0.97	1.16
SCReAM	5	0.21	0.21	0.22	26.01	26.00	25.98	0.00	0.00	0.00
Sprout	5	11.74	11.75	11.54	32.02	32.25	32.64	0.02	0.00	0.00
TaoVA-100x	5	5.88	6.68	7.34	26.49	26.57	26.50	88.22	60.96	94.59
TCP Vegas	5	70.82	25.81	17.46	35.44	34.00	33.24	0.64	0.05	0.00
Verus	5	45.72	18.29	24.21	61.22	60.72	60.58	27.73	25.01	24.68
PCC-Vivace	5	64.71	24.63	13.70	39.46	41.43	42.29	0.05	0.10	0.10
WebRTC media	5	0.05	0.05	0.05	26.54	26.58	26.62	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-07-17 23:15:58  
End at: 2019-07-17 23:16:28  
Local clock offset: -4.369 ms  
Remote clock offset: -5.176 ms

# Below is generated by plot.py at 2019-07-18 01:43:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.43 Mbit/s  
95th percentile per-packet one-way delay: 61.154 ms  
Loss rate: 8.69%  
-- Flow 1:  
Average throughput: 62.36 Mbit/s  
95th percentile per-packet one-way delay: 59.969 ms  
Loss rate: 6.75%  
-- Flow 2:  
Average throughput: 27.26 Mbit/s  
95th percentile per-packet one-way delay: 62.510 ms  
Loss rate: 10.14%  
-- Flow 3:  
Average throughput: 44.83 Mbit/s  
95th percentile per-packet one-way delay: 62.397 ms  
Loss rate: 14.47%

# Run 1: Report of TCP BBR — Data Link

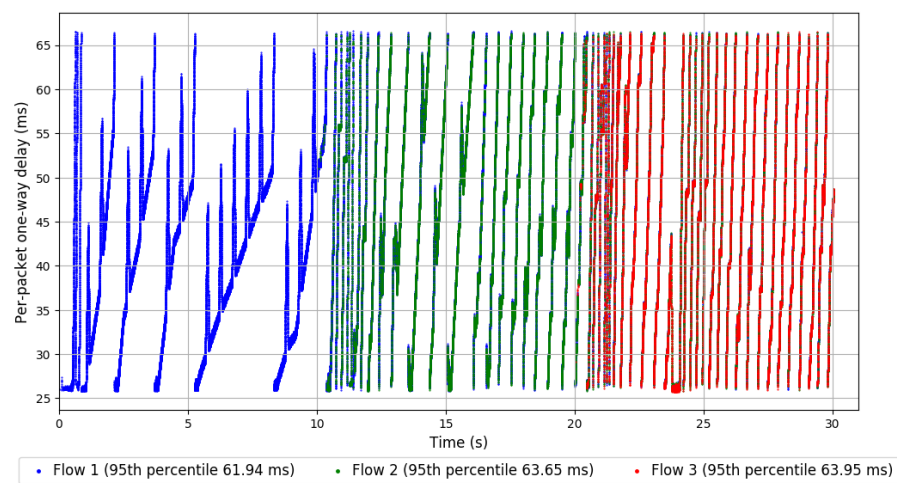
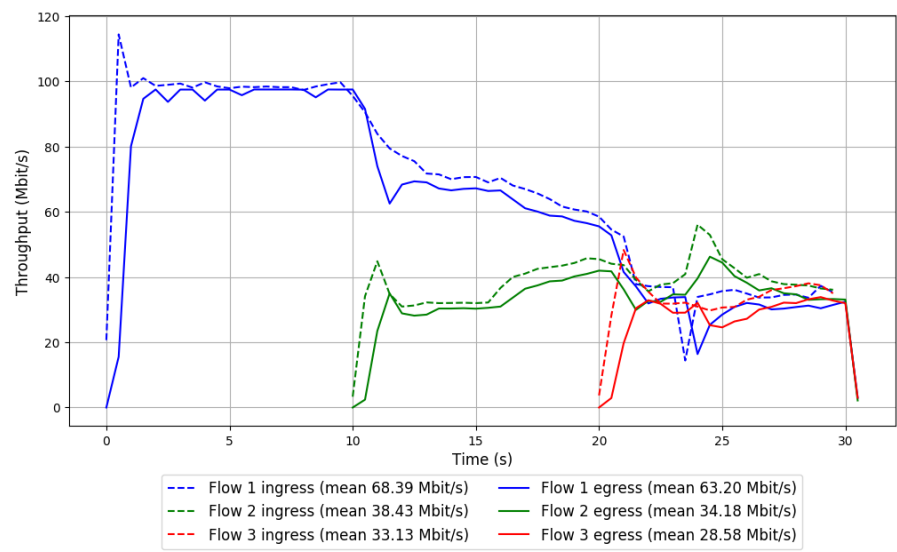


Run 2: Statistics of TCP BBR

Start at: 2019-07-17 23:48:33  
End at: 2019-07-17 23:49:03  
Local clock offset: -0.779 ms  
Remote clock offset: -4.496 ms

# Below is generated by plot.py at 2019-07-18 01:43:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.47 Mbit/s  
95th percentile per-packet one-way delay: 62.745 ms  
Loss rate: 9.02%  
-- Flow 1:  
Average throughput: 63.20 Mbit/s  
95th percentile per-packet one-way delay: 61.941 ms  
Loss rate: 7.52%  
-- Flow 2:  
Average throughput: 34.18 Mbit/s  
95th percentile per-packet one-way delay: 63.647 ms  
Loss rate: 11.06%  
-- Flow 3:  
Average throughput: 28.58 Mbit/s  
95th percentile per-packet one-way delay: 63.952 ms  
Loss rate: 13.57%

Run 2: Report of TCP BBR — Data Link

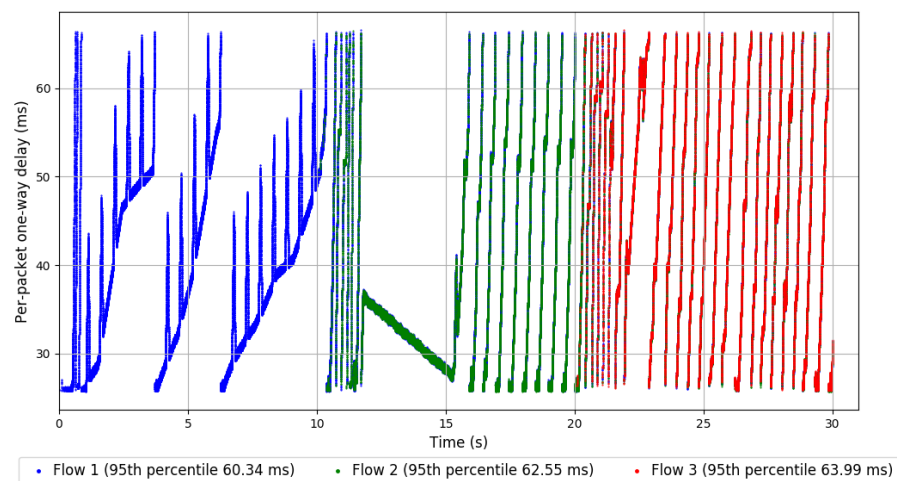
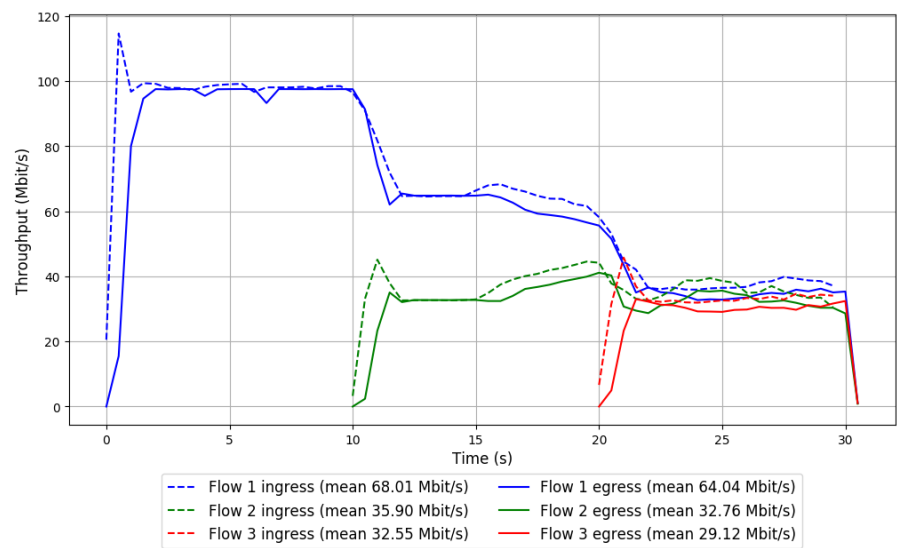


Run 3: Statistics of TCP BBR

Start at: 2019-07-18 00:20:59  
End at: 2019-07-18 00:21:29  
Local clock offset: -0.29 ms  
Remote clock offset: -3.326 ms

# Below is generated by plot.py at 2019-07-18 01:43:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.53 Mbit/s  
95th percentile per-packet one-way delay: 61.667 ms  
Loss rate: 7.01%  
-- Flow 1:  
Average throughput: 64.04 Mbit/s  
95th percentile per-packet one-way delay: 60.335 ms  
Loss rate: 5.82%  
-- Flow 2:  
Average throughput: 32.76 Mbit/s  
95th percentile per-packet one-way delay: 62.548 ms  
Loss rate: 8.83%  
-- Flow 3:  
Average throughput: 29.12 Mbit/s  
95th percentile per-packet one-way delay: 63.993 ms  
Loss rate: 10.48%

Run 3: Report of TCP BBR — Data Link

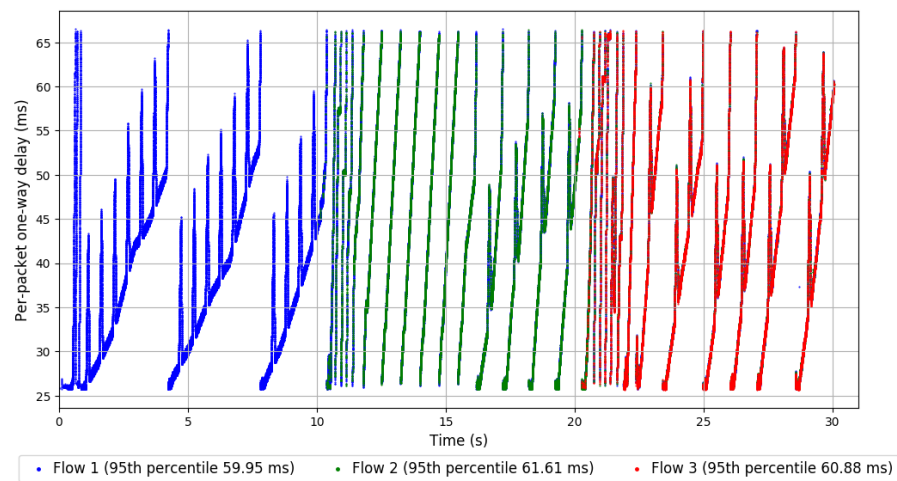
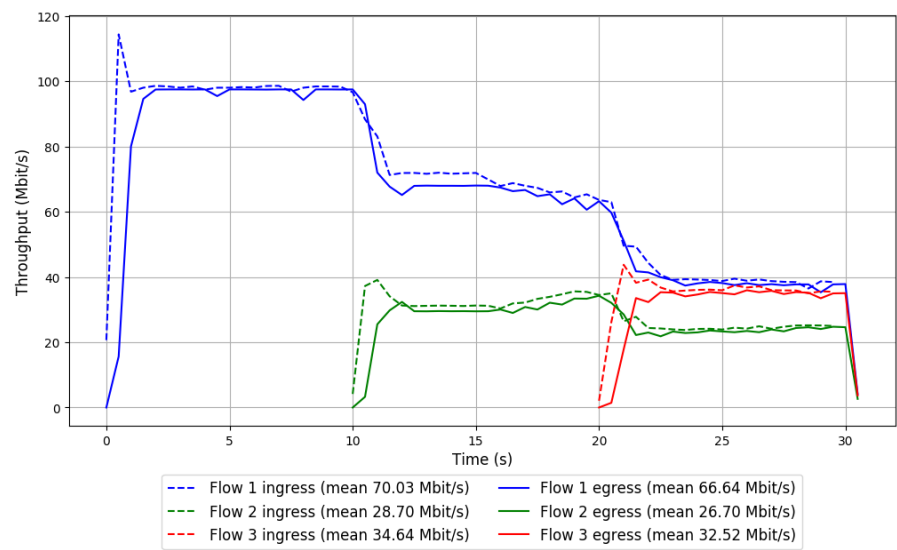


Run 4: Statistics of TCP BBR

Start at: 2019-07-18 00:54:04  
End at: 2019-07-18 00:54:34  
Local clock offset: 0.185 ms  
Remote clock offset: -2.605 ms

# Below is generated by plot.py at 2019-07-18 01:43:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.24 Mbit/s  
95th percentile per-packet one-way delay: 60.565 ms  
Loss rate: 5.28%  
-- Flow 1:  
Average throughput: 66.64 Mbit/s  
95th percentile per-packet one-way delay: 59.948 ms  
Loss rate: 4.72%  
-- Flow 2:  
Average throughput: 26.70 Mbit/s  
95th percentile per-packet one-way delay: 61.606 ms  
Loss rate: 6.88%  
-- Flow 3:  
Average throughput: 32.52 Mbit/s  
95th percentile per-packet one-way delay: 60.881 ms  
Loss rate: 6.05%

Run 4: Report of TCP BBR — Data Link

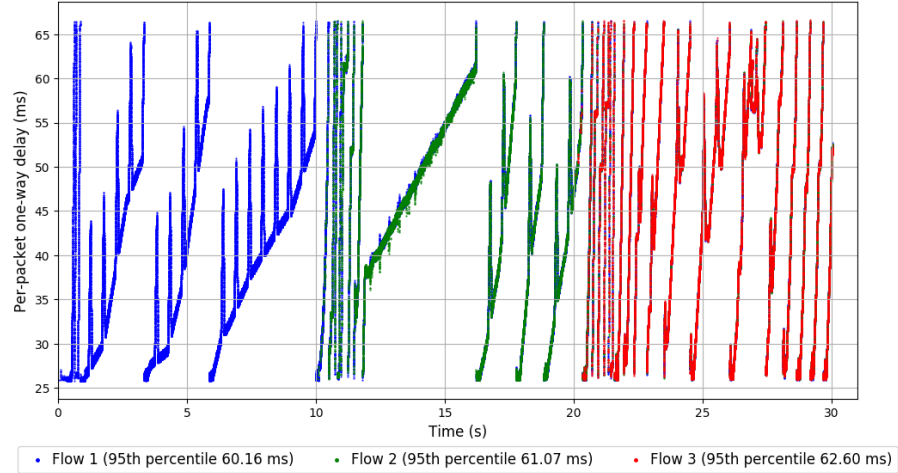
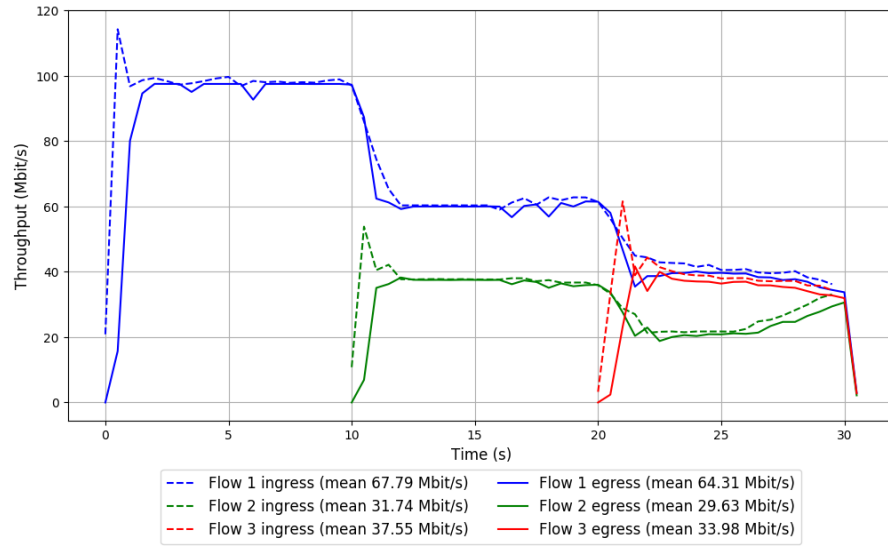


Run 5: Statistics of TCP BBR

Start at: 2019-07-18 01:29:39  
End at: 2019-07-18 01:30:09  
Local clock offset: 1.745 ms  
Remote clock offset: -2.869 ms

# Below is generated by plot.py at 2019-07-18 01:43:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.35 Mbit/s  
95th percentile per-packet one-way delay: 60.745 ms  
Loss rate: 5.91%  
-- Flow 1:  
Average throughput: 64.31 Mbit/s  
95th percentile per-packet one-way delay: 60.158 ms  
Loss rate: 5.05%  
-- Flow 2:  
Average throughput: 29.63 Mbit/s  
95th percentile per-packet one-way delay: 61.071 ms  
Loss rate: 6.54%  
-- Flow 3:  
Average throughput: 33.98 Mbit/s  
95th percentile per-packet one-way delay: 62.598 ms  
Loss rate: 9.50%

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



Run 1: Statistics of Copa

Start at: 2019-07-17 23:00:50

End at: 2019-07-17 23:01:20

Local clock offset: -2.534 ms

Remote clock offset: -5.13 ms

# Below is generated by plot.py at 2019-07-18 01:43:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.50 Mbit/s

95th percentile per-packet one-way delay: 26.247 ms

Loss rate: 71.10%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 25.828 ms

Loss rate: 98.33%

-- Flow 2:

Average throughput: 11.08 Mbit/s

95th percentile per-packet one-way delay: 26.427 ms

Loss rate: 71.21%

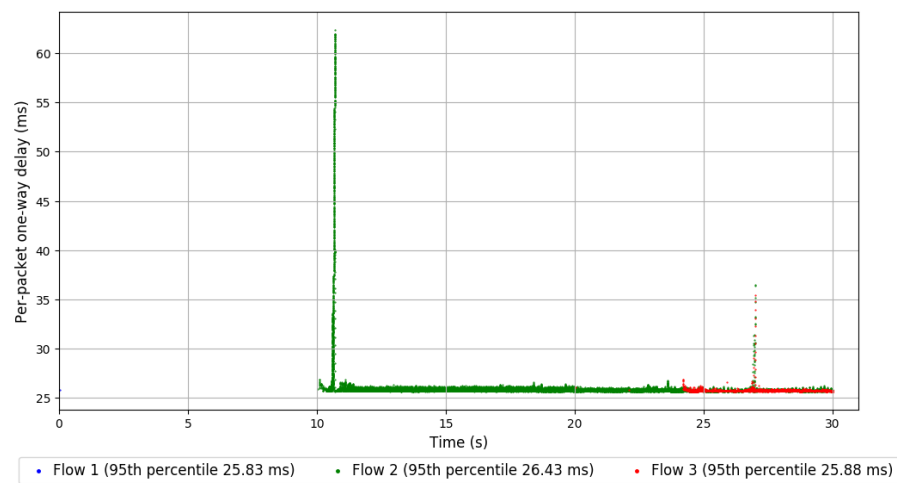
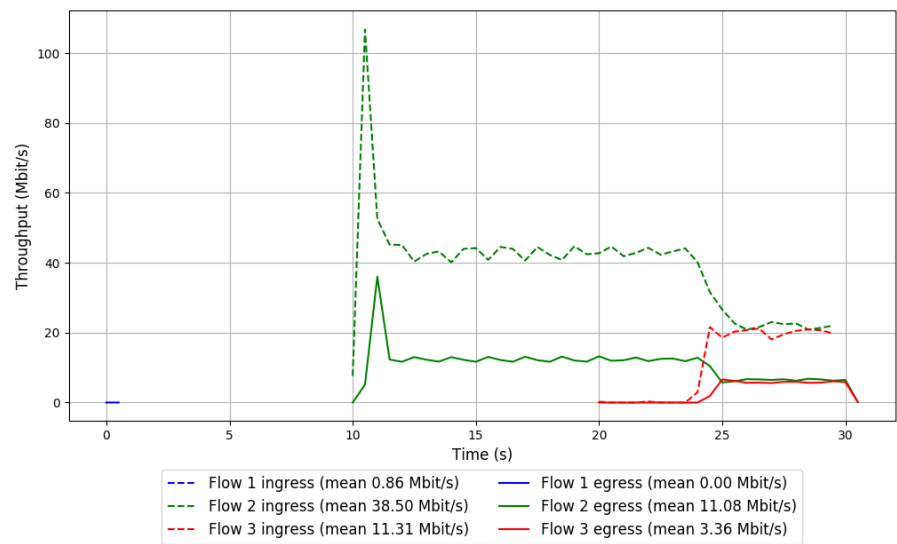
-- Flow 3:

Average throughput: 3.36 Mbit/s

95th percentile per-packet one-way delay: 25.882 ms

Loss rate: 70.28%

Run 1: Report of Copa — Data Link

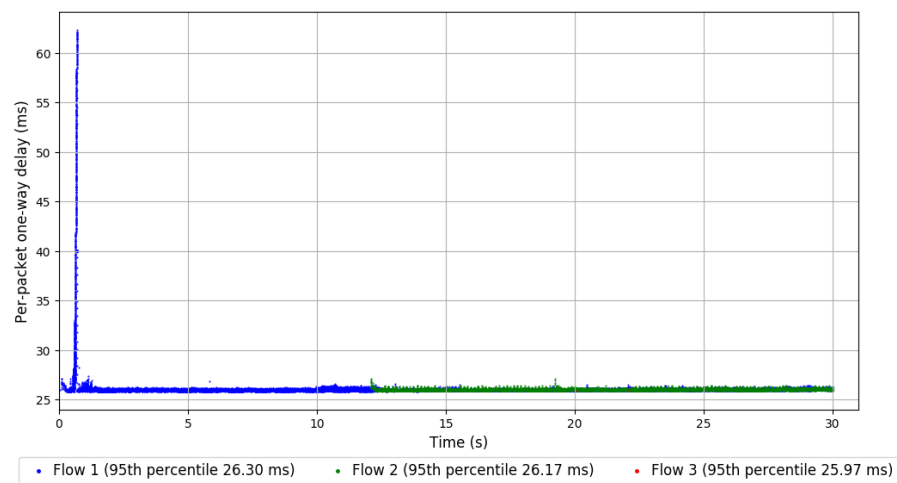
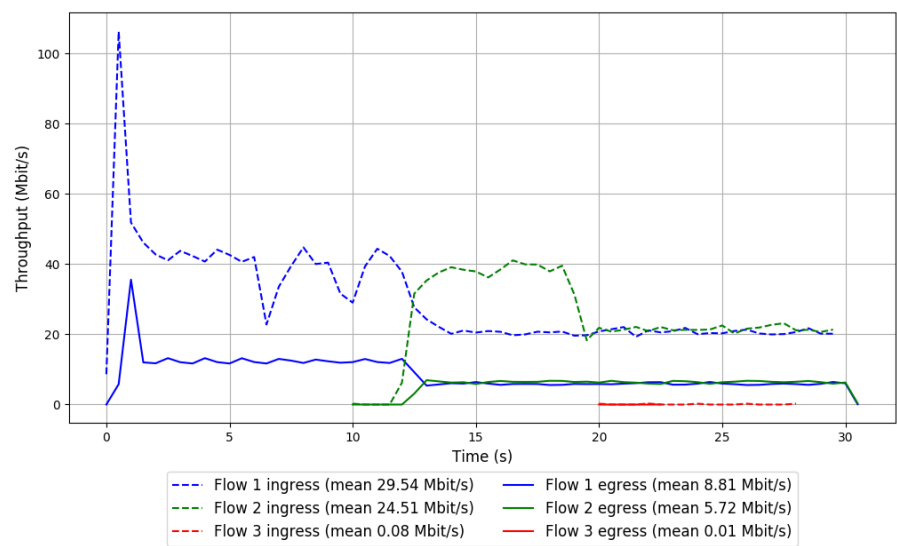


Run 2: Statistics of Copa

Start at: 2019-07-17 23:35:21  
End at: 2019-07-17 23:35:51  
Local clock offset: -1.605 ms  
Remote clock offset: -4.847 ms

# Below is generated by plot.py at 2019-07-18 01:43:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.61 Mbit/s  
95th percentile per-packet one-way delay: 26.237 ms  
Loss rate: 72.51%  
-- Flow 1:  
Average throughput: 8.81 Mbit/s  
95th percentile per-packet one-way delay: 26.304 ms  
Loss rate: 70.19%  
-- Flow 2:  
Average throughput: 5.72 Mbit/s  
95th percentile per-packet one-way delay: 26.168 ms  
Loss rate: 76.68%  
-- Flow 3:  
Average throughput: 0.01 Mbit/s  
95th percentile per-packet one-way delay: 25.974 ms  
Loss rate: 97.92%

Run 2: Report of Copa — Data Link

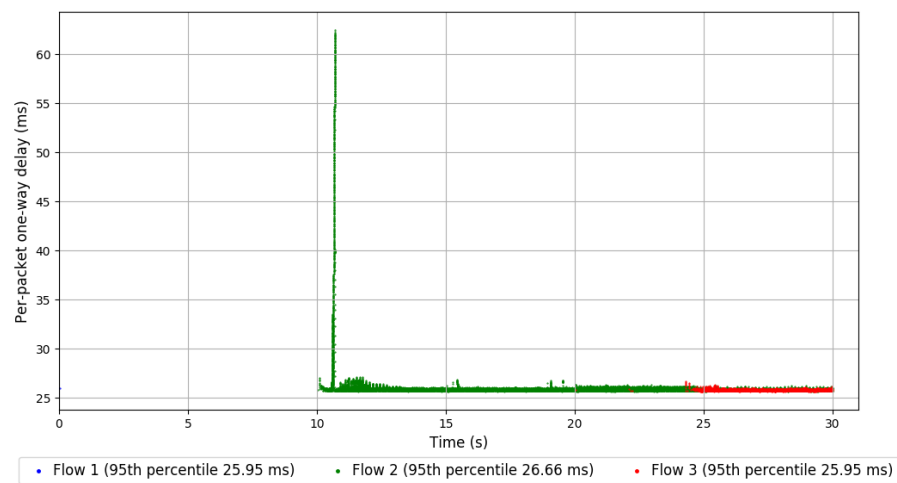
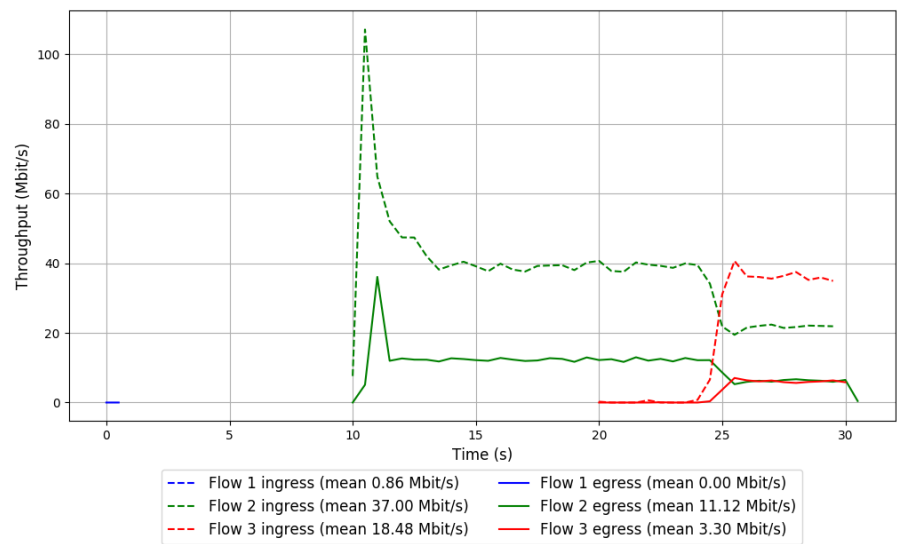


Run 3: Statistics of Copa

Start at: 2019-07-18 00:07:44  
End at: 2019-07-18 00:08:14  
Local clock offset: -0.352 ms  
Remote clock offset: -3.882 ms

# Below is generated by plot.py at 2019-07-18 01:43:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.50 Mbit/s  
95th percentile per-packet one-way delay: 26.456 ms  
Loss rate: 72.39%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 25.947 ms  
Loss rate: 98.33%  
-- Flow 2:  
Average throughput: 11.12 Mbit/s  
95th percentile per-packet one-way delay: 26.655 ms  
Loss rate: 69.96%  
-- Flow 3:  
Average throughput: 3.30 Mbit/s  
95th percentile per-packet one-way delay: 25.950 ms  
Loss rate: 82.16%

Run 3: Report of Copa — Data Link

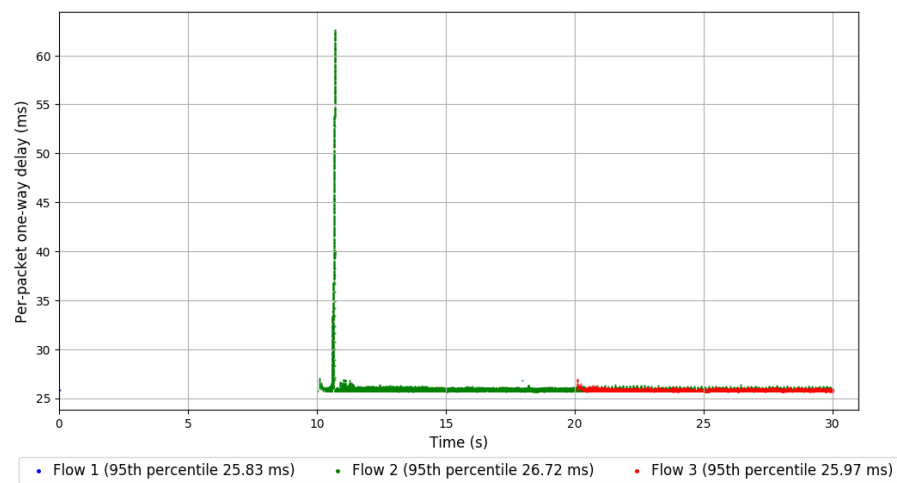
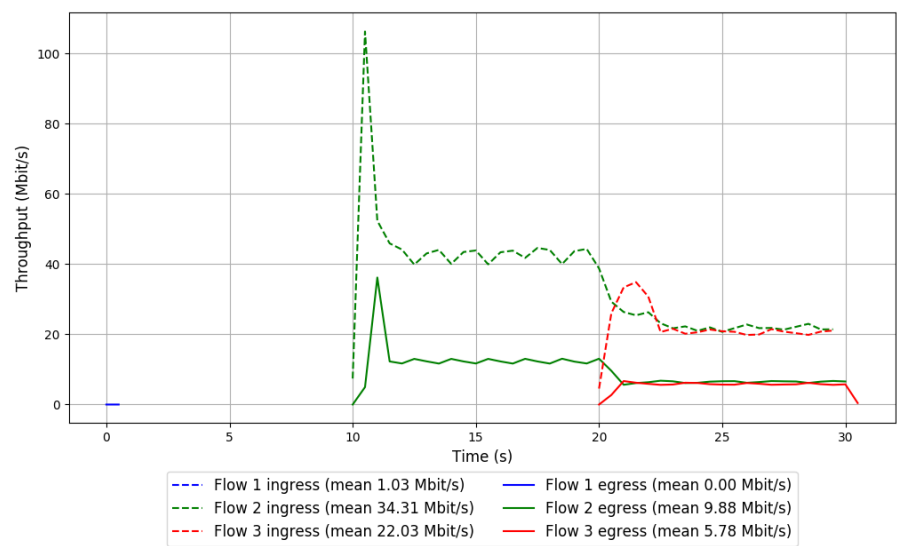


Run 4: Statistics of Copa

Start at: 2019-07-18 00:41:01  
End at: 2019-07-18 00:41:31  
Local clock offset: 0.064 ms  
Remote clock offset: -2.664 ms

# Below is generated by plot.py at 2019-07-18 01:43:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.50 Mbit/s  
95th percentile per-packet one-way delay: 26.185 ms  
Loss rate: 71.83%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 25.831 ms  
Loss rate: 98.60%  
-- Flow 2:  
Average throughput: 9.88 Mbit/s  
95th percentile per-packet one-way delay: 26.720 ms  
Loss rate: 71.20%  
-- Flow 3:  
Average throughput: 5.78 Mbit/s  
95th percentile per-packet one-way delay: 25.969 ms  
Loss rate: 73.77%

Run 4: Report of Copa — Data Link

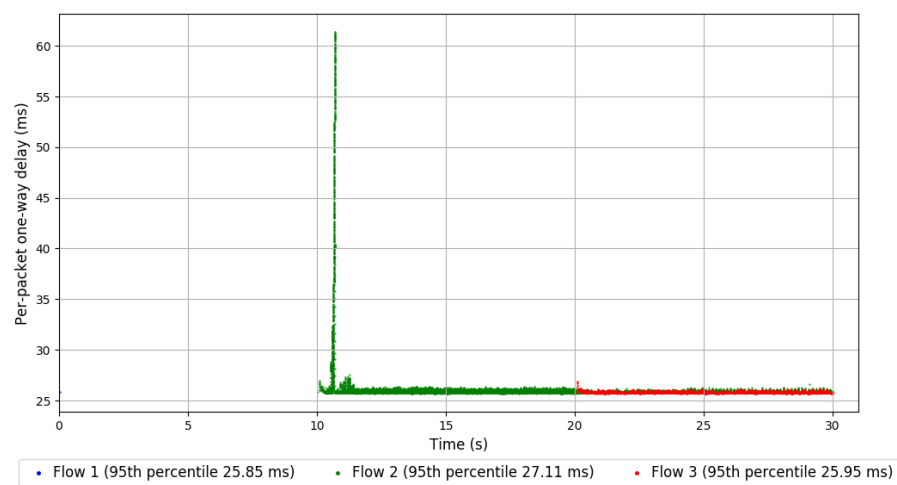
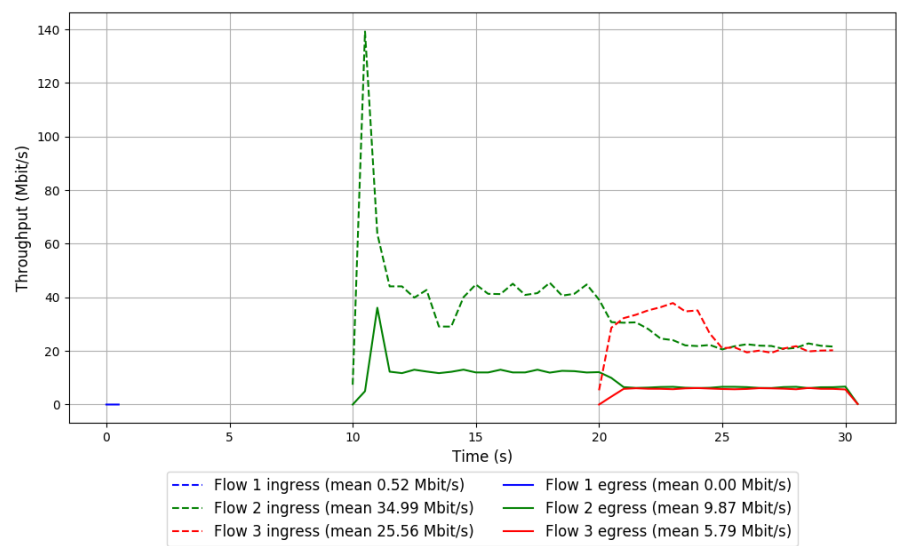


Run 5: Statistics of Copa

Start at: 2019-07-18 01:15:41  
End at: 2019-07-18 01:16:11  
Local clock offset: 0.251 ms  
Remote clock offset: -2.802 ms

# Below is generated by plot.py at 2019-07-18 01:43:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.50 Mbit/s  
95th percentile per-packet one-way delay: 26.291 ms  
Loss rate: 73.27%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 25.854 ms  
Loss rate: 97.24%  
-- Flow 2:  
Average throughput: 9.87 Mbit/s  
95th percentile per-packet one-way delay: 27.110 ms  
Loss rate: 71.78%  
-- Flow 3:  
Average throughput: 5.79 Mbit/s  
95th percentile per-packet one-way delay: 25.949 ms  
Loss rate: 77.36%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-07-17 22:56:33

End at: 2019-07-17 22:57:04

Local clock offset: -1.729 ms

Remote clock offset: -5.0 ms

# Below is generated by plot.py at 2019-07-18 01:43:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.27 Mbit/s

95th percentile per-packet one-way delay: 61.262 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 72.16 Mbit/s

95th percentile per-packet one-way delay: 61.613 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 23.15 Mbit/s

95th percentile per-packet one-way delay: 60.024 ms

Loss rate: 0.45%

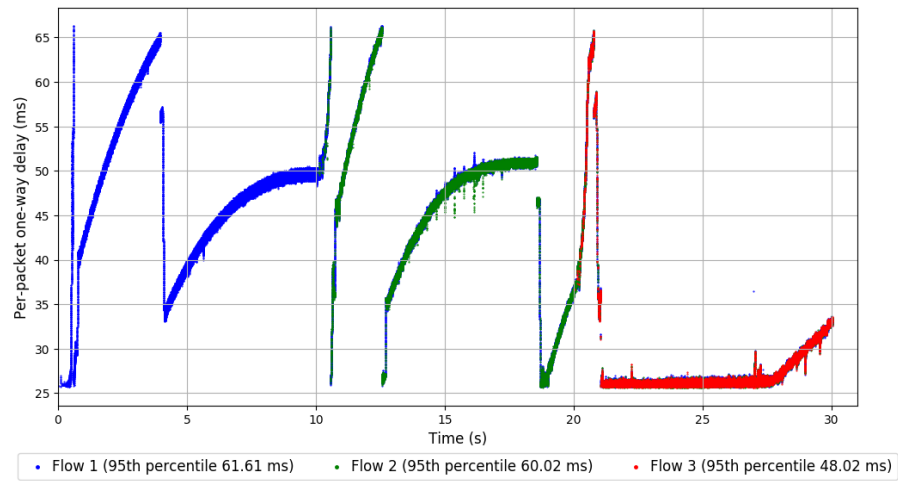
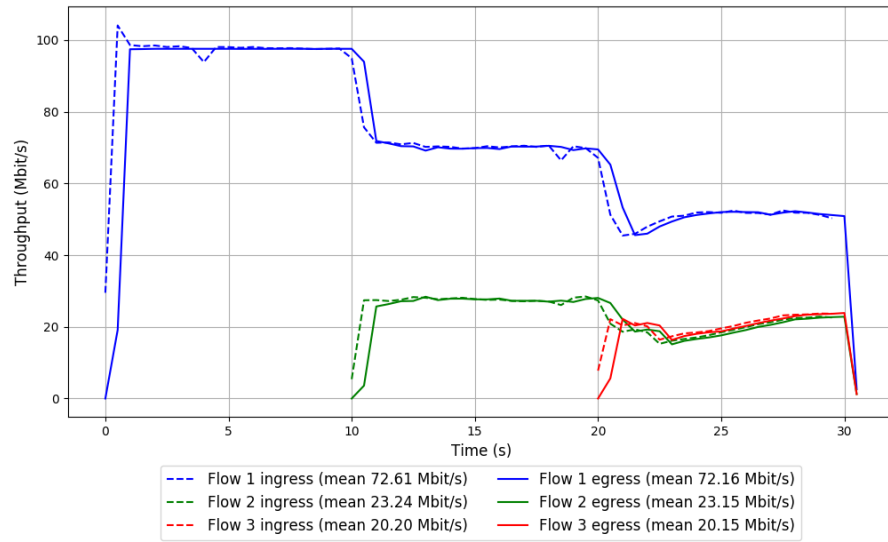
-- Flow 3:

Average throughput: 20.15 Mbit/s

95th percentile per-packet one-way delay: 48.017 ms

Loss rate: 0.24%

# Run 1: Report of TCP Cubic — Data Link

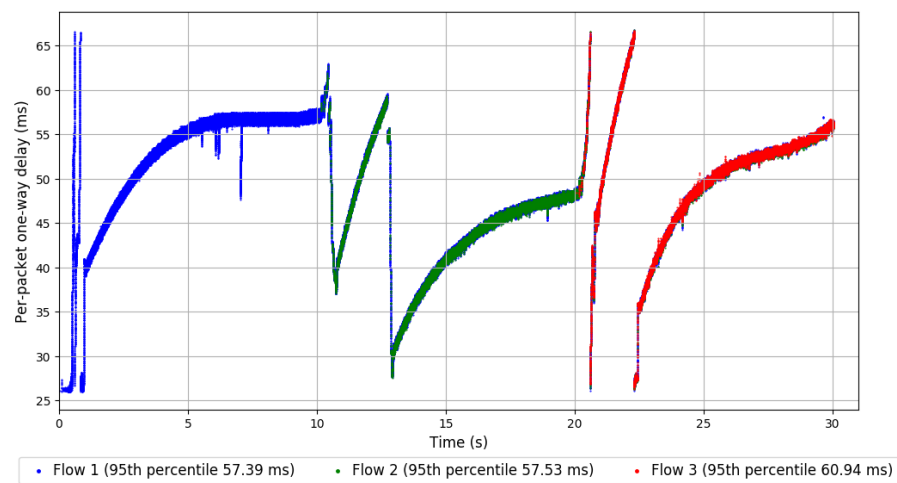
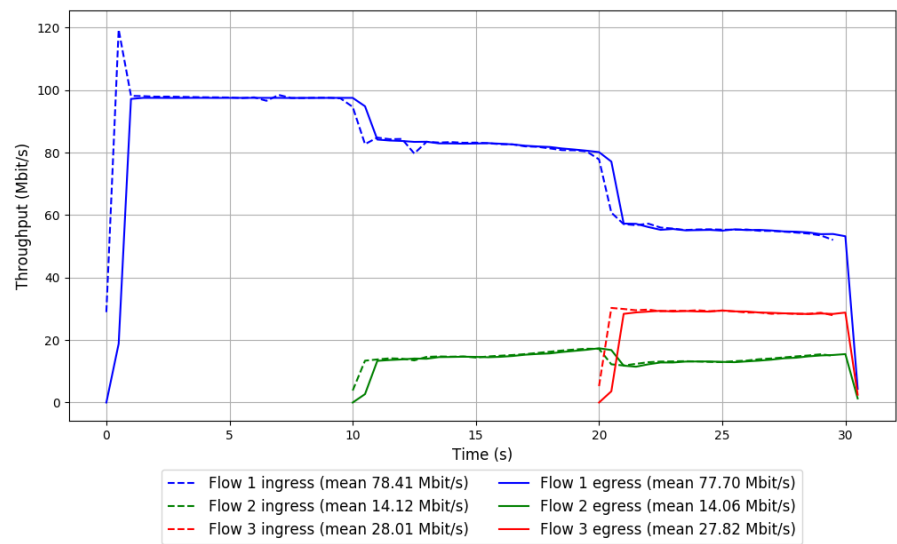


Run 2: Statistics of TCP Cubic

Start at: 2019-07-17 23:31:11  
End at: 2019-07-17 23:31:41  
Local clock offset: -2.584 ms  
Remote clock offset: -4.955 ms

# Below is generated by plot.py at 2019-07-18 01:43:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.29 Mbit/s  
95th percentile per-packet one-way delay: 57.419 ms  
Loss rate: 0.75%  
-- Flow 1:  
Average throughput: 77.70 Mbit/s  
95th percentile per-packet one-way delay: 57.394 ms  
Loss rate: 0.80%  
-- Flow 2:  
Average throughput: 14.06 Mbit/s  
95th percentile per-packet one-way delay: 57.526 ms  
Loss rate: 0.45%  
-- Flow 3:  
Average throughput: 27.82 Mbit/s  
95th percentile per-packet one-way delay: 60.943 ms  
Loss rate: 0.59%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2019-07-18 00:03:22

End at: 2019-07-18 00:03:52

Local clock offset: -0.411 ms

Remote clock offset: -4.13 ms

# Below is generated by plot.py at 2019-07-18 01:43:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 59.509 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 77.18 Mbit/s

95th percentile per-packet one-way delay: 59.534 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 14.74 Mbit/s

95th percentile per-packet one-way delay: 61.225 ms

Loss rate: 0.42%

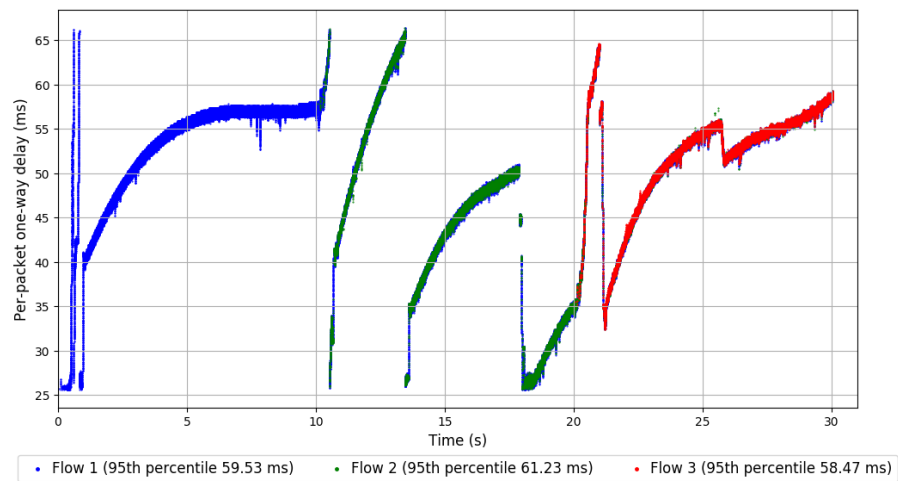
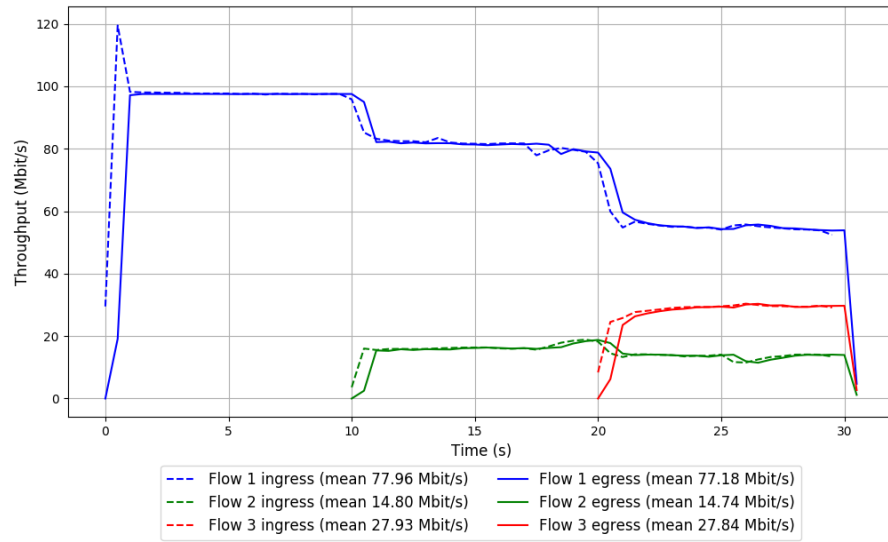
-- Flow 3:

Average throughput: 27.84 Mbit/s

95th percentile per-packet one-way delay: 58.469 ms

Loss rate: 0.09%

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

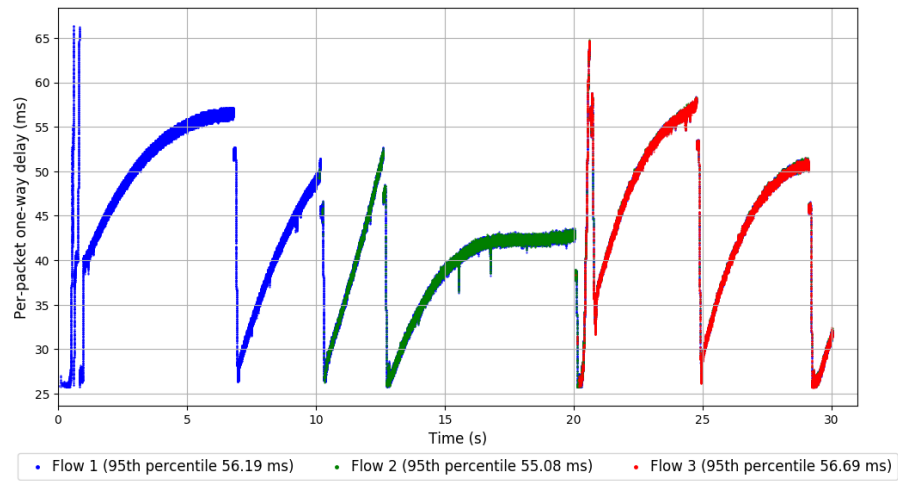
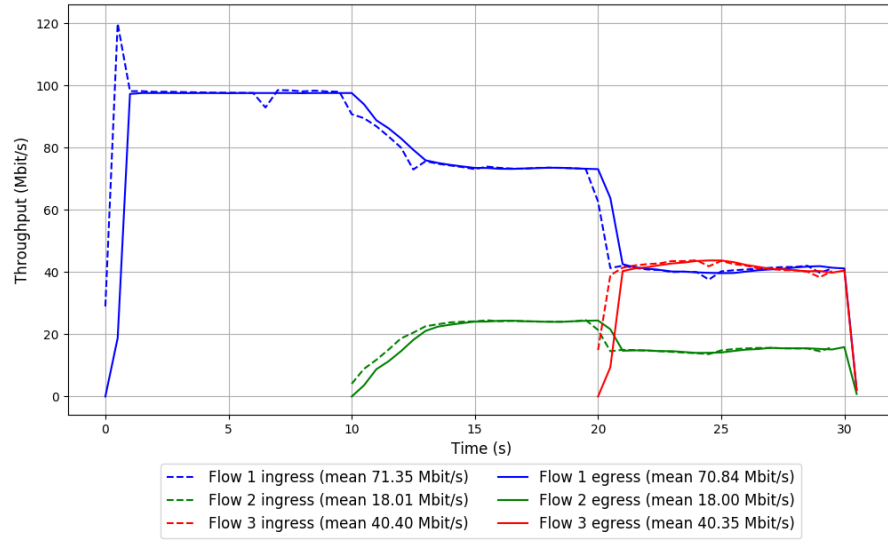


Run 4: Statistics of TCP Cubic

Start at: 2019-07-18 00:36:34  
End at: 2019-07-18 00:37:04  
Local clock offset: 0.029 ms  
Remote clock offset: -2.755 ms

# Below is generated by plot.py at 2019-07-18 01:44:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.22 Mbit/s  
95th percentile per-packet one-way delay: 56.209 ms  
Loss rate: 0.56%  
-- Flow 1:  
Average throughput: 70.84 Mbit/s  
95th percentile per-packet one-way delay: 56.187 ms  
Loss rate: 0.69%  
-- Flow 2:  
Average throughput: 18.00 Mbit/s  
95th percentile per-packet one-way delay: 55.078 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 40.35 Mbit/s  
95th percentile per-packet one-way delay: 56.686 ms  
Loss rate: 0.21%

# Run 4: Report of TCP Cubic — Data Link

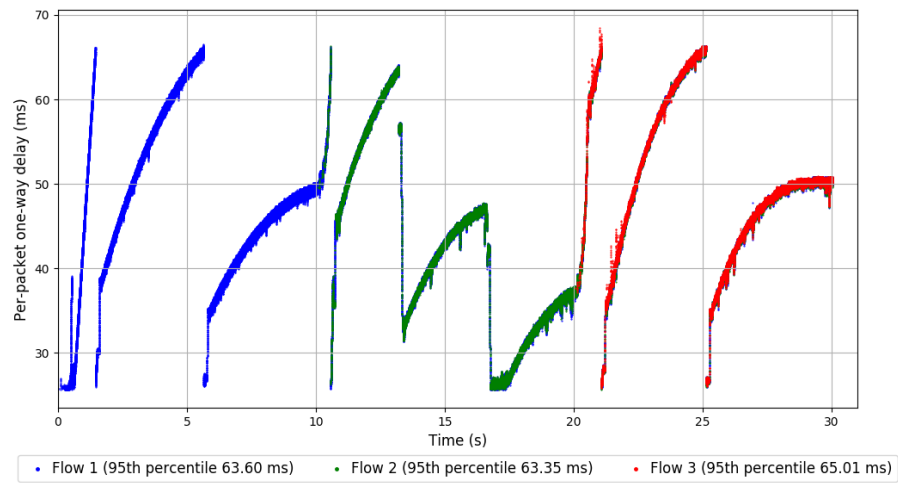
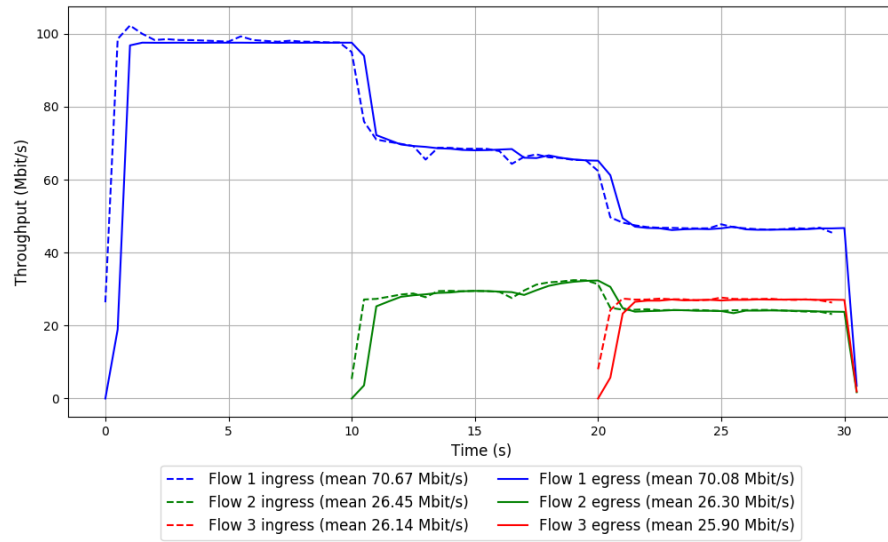


Run 5: Statistics of TCP Cubic

Start at: 2019-07-18 01:10:40  
End at: 2019-07-18 01:11:10  
Local clock offset: 0.207 ms  
Remote clock offset: -2.793 ms

# Below is generated by plot.py at 2019-07-18 01:44:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.20 Mbit/s  
95th percentile per-packet one-way delay: 63.798 ms  
Loss rate: 0.72%  
-- Flow 1:  
Average throughput: 70.08 Mbit/s  
95th percentile per-packet one-way delay: 63.597 ms  
Loss rate: 0.75%  
-- Flow 2:  
Average throughput: 26.30 Mbit/s  
95th percentile per-packet one-way delay: 63.354 ms  
Loss rate: 0.56%  
-- Flow 3:  
Average throughput: 25.90 Mbit/s  
95th percentile per-packet one-way delay: 65.006 ms  
Loss rate: 0.79%

# Run 5: Report of TCP Cubic — Data Link

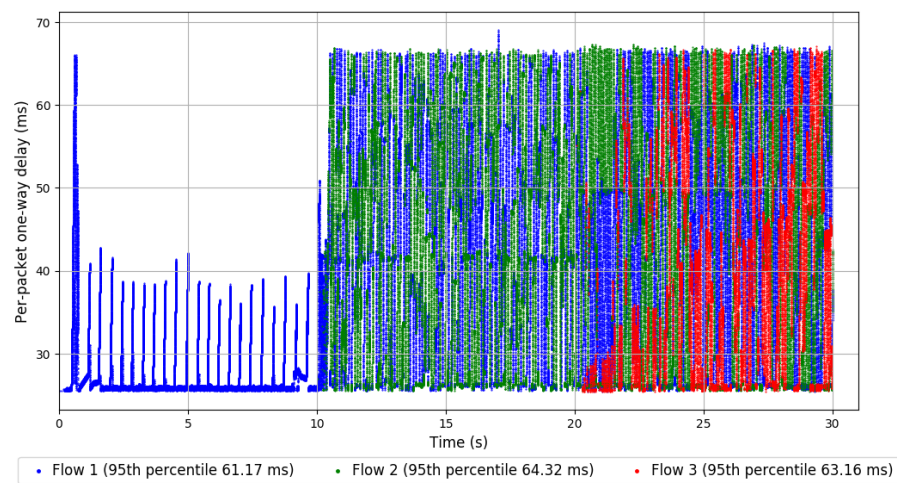
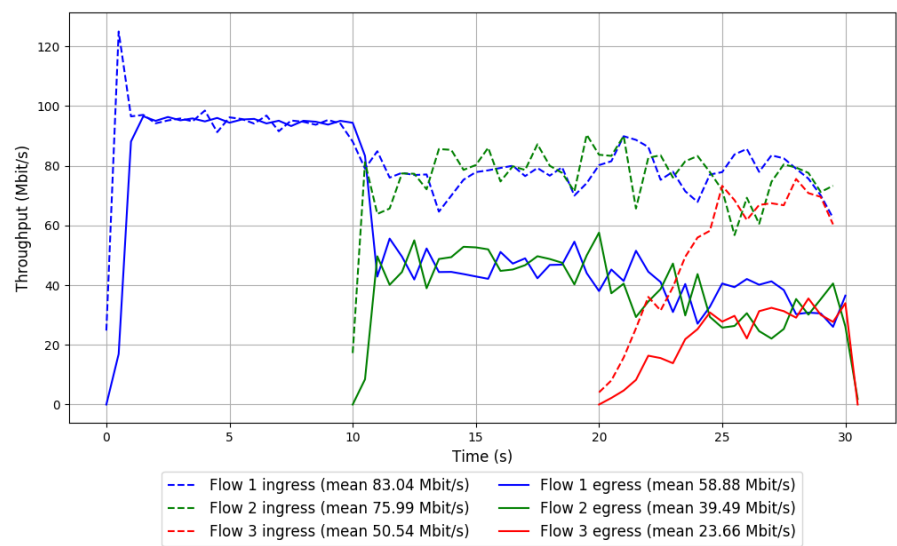


Run 1: Statistics of FillP

Start at: 2019-07-17 23:23:18  
End at: 2019-07-17 23:23:48  
Local clock offset: -5.077 ms  
Remote clock offset: -5.197 ms

# Below is generated by plot.py at 2019-07-18 01:45:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.00 Mbit/s  
95th percentile per-packet one-way delay: 62.761 ms  
Loss rate: 38.13%  
-- Flow 1:  
Average throughput: 58.88 Mbit/s  
95th percentile per-packet one-way delay: 61.168 ms  
Loss rate: 29.07%  
-- Flow 2:  
Average throughput: 39.49 Mbit/s  
95th percentile per-packet one-way delay: 64.321 ms  
Loss rate: 48.00%  
-- Flow 3:  
Average throughput: 23.66 Mbit/s  
95th percentile per-packet one-way delay: 63.157 ms  
Loss rate: 53.24%

Run 1: Report of FillP — Data Link

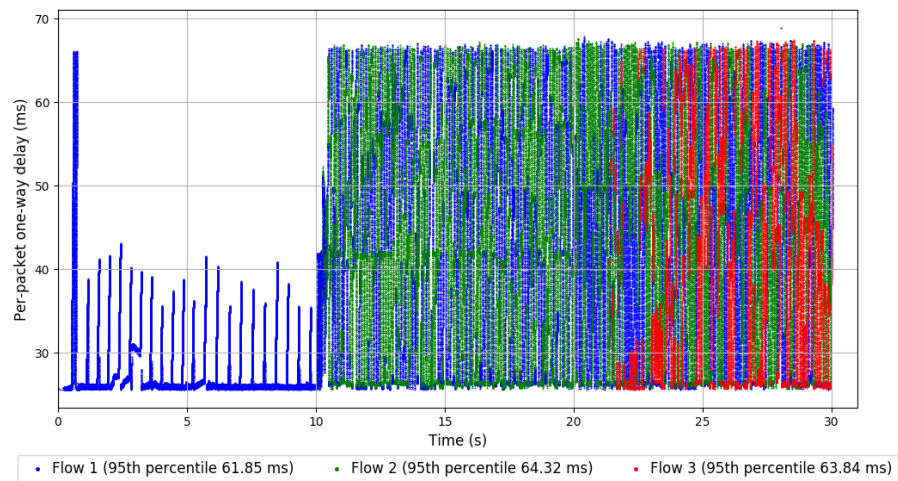
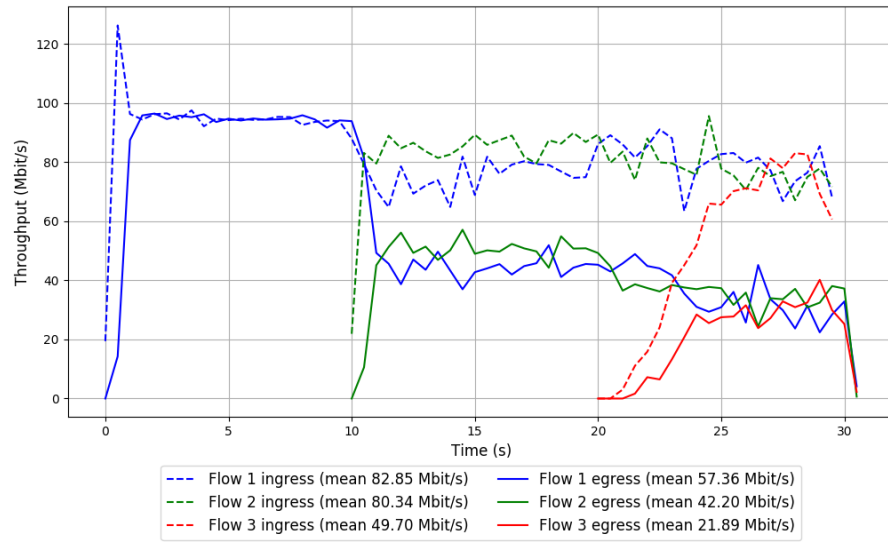


Run 2: Statistics of FillP

Start at: 2019-07-17 23:54:58  
End at: 2019-07-17 23:55:28  
Local clock offset: -0.786 ms  
Remote clock offset: -4.297 ms

# Below is generated by plot.py at 2019-07-18 01:45:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.71 Mbit/s  
95th percentile per-packet one-way delay: 63.123 ms  
Loss rate: 39.28%  
-- Flow 1:  
Average throughput: 57.36 Mbit/s  
95th percentile per-packet one-way delay: 61.855 ms  
Loss rate: 30.69%  
-- Flow 2:  
Average throughput: 42.20 Mbit/s  
95th percentile per-packet one-way delay: 64.324 ms  
Loss rate: 47.43%  
-- Flow 3:  
Average throughput: 21.89 Mbit/s  
95th percentile per-packet one-way delay: 63.843 ms  
Loss rate: 55.98%

## Run 2: Report of FillP — Data Link

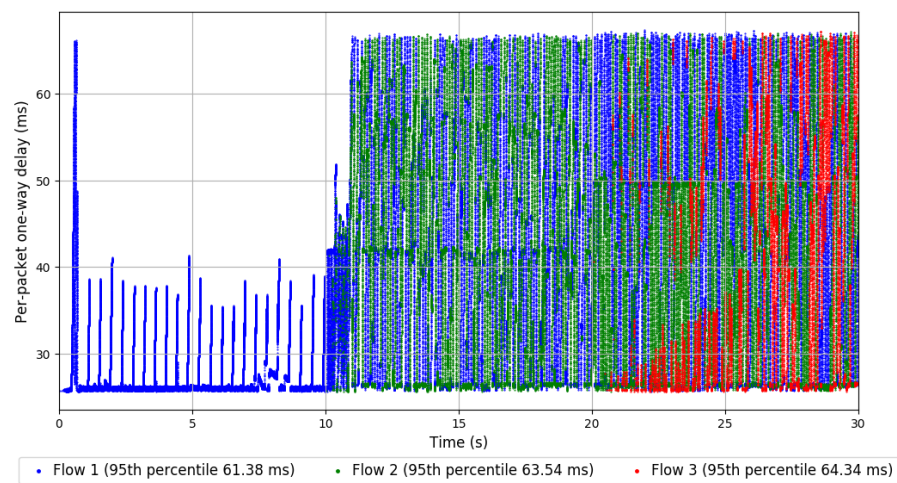
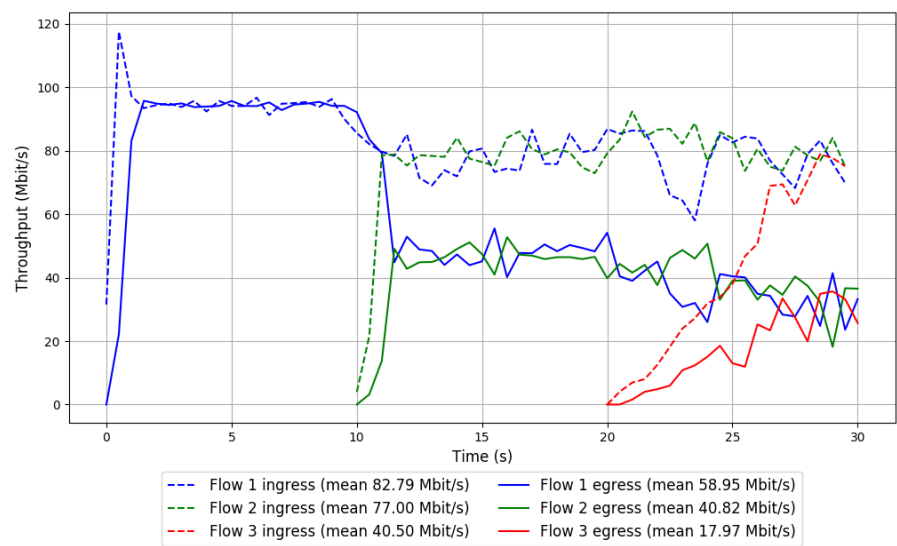


Run 3: Statistics of FillP

Start at: 2019-07-18 00:27:43  
End at: 2019-07-18 00:28:13  
Local clock offset: -0.189 ms  
Remote clock offset: -3.074 ms

# Below is generated by plot.py at 2019-07-18 01:45:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.00 Mbit/s  
95th percentile per-packet one-way delay: 62.701 ms  
Loss rate: 37.60%  
-- Flow 1:  
Average throughput: 58.95 Mbit/s  
95th percentile per-packet one-way delay: 61.384 ms  
Loss rate: 28.84%  
-- Flow 2:  
Average throughput: 40.82 Mbit/s  
95th percentile per-packet one-way delay: 63.542 ms  
Loss rate: 47.00%  
-- Flow 3:  
Average throughput: 17.97 Mbit/s  
95th percentile per-packet one-way delay: 64.343 ms  
Loss rate: 55.68%

Run 3: Report of FillP — Data Link

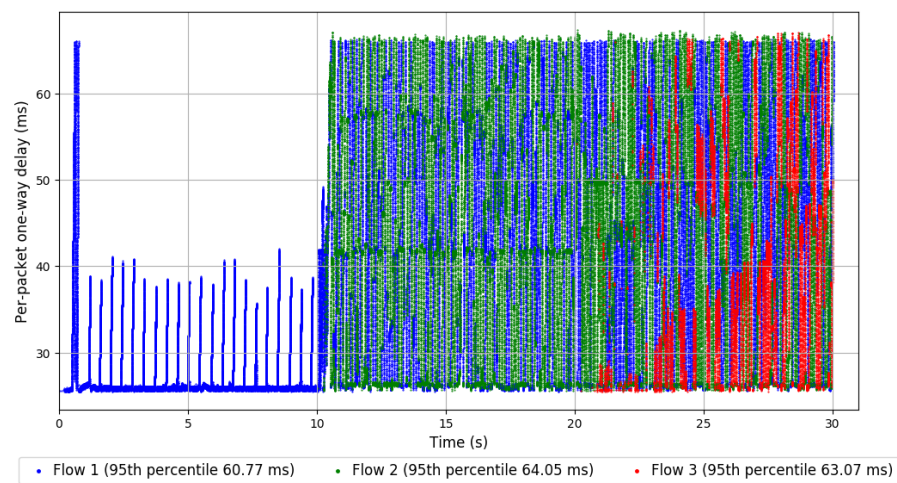
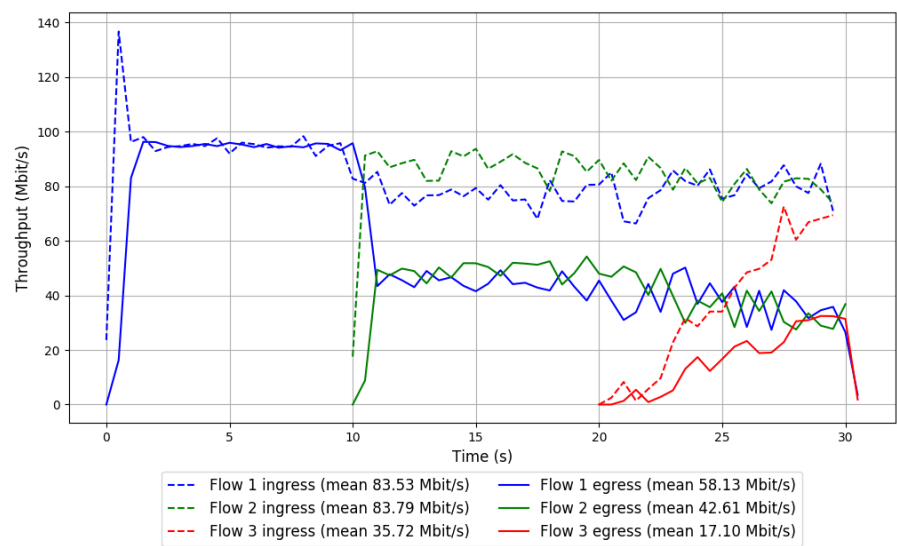


Run 4: Statistics of FillP

Start at: 2019-07-18 01:01:31  
End at: 2019-07-18 01:02:01  
Local clock offset: 0.2 ms  
Remote clock offset: -2.701 ms

# Below is generated by plot.py at 2019-07-18 01:45:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.11 Mbit/s  
95th percentile per-packet one-way delay: 62.381 ms  
Loss rate: 38.98%  
-- Flow 1:  
Average throughput: 58.13 Mbit/s  
95th percentile per-packet one-way delay: 60.766 ms  
Loss rate: 30.32%  
-- Flow 2:  
Average throughput: 42.61 Mbit/s  
95th percentile per-packet one-way delay: 64.052 ms  
Loss rate: 49.15%  
-- Flow 3:  
Average throughput: 17.10 Mbit/s  
95th percentile per-packet one-way delay: 63.066 ms  
Loss rate: 52.14%

Run 4: Report of FillP — Data Link

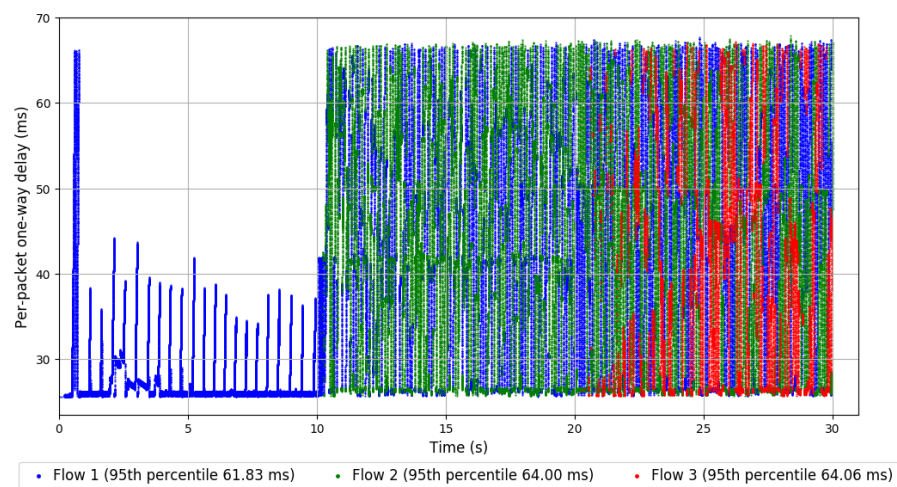
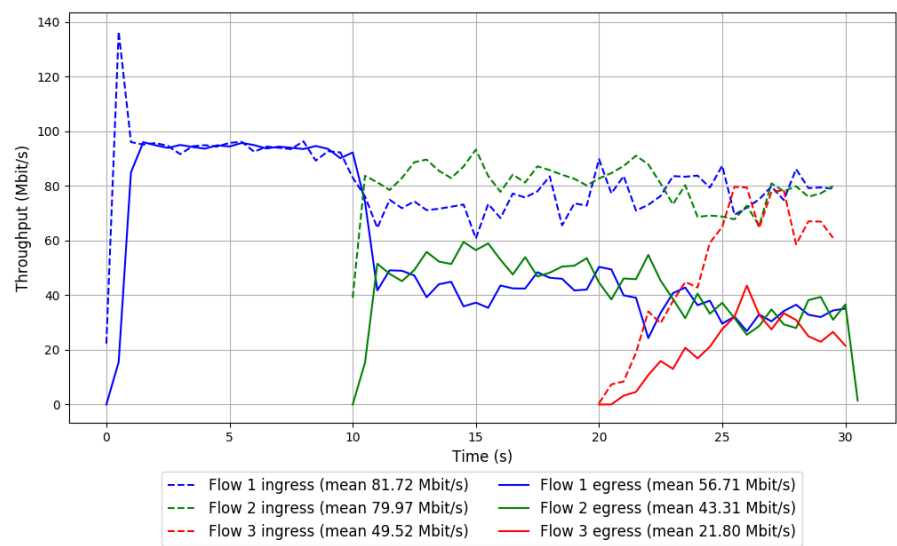


Run 5: Statistics of FillP

Start at: 2019-07-18 01:37:01  
End at: 2019-07-18 01:37:31  
Local clock offset: 2.958 ms  
Remote clock offset: -2.772 ms

# Below is generated by plot.py at 2019-07-18 01:45:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.69 Mbit/s  
95th percentile per-packet one-way delay: 63.010 ms  
Loss rate: 38.75%  
-- Flow 1:  
Average throughput: 56.71 Mbit/s  
95th percentile per-packet one-way delay: 61.833 ms  
Loss rate: 30.64%  
-- Flow 2:  
Average throughput: 43.31 Mbit/s  
95th percentile per-packet one-way delay: 63.997 ms  
Loss rate: 45.82%  
-- Flow 3:  
Average throughput: 21.80 Mbit/s  
95th percentile per-packet one-way delay: 64.060 ms  
Loss rate: 56.16%

Run 5: Report of FillP — Data Link

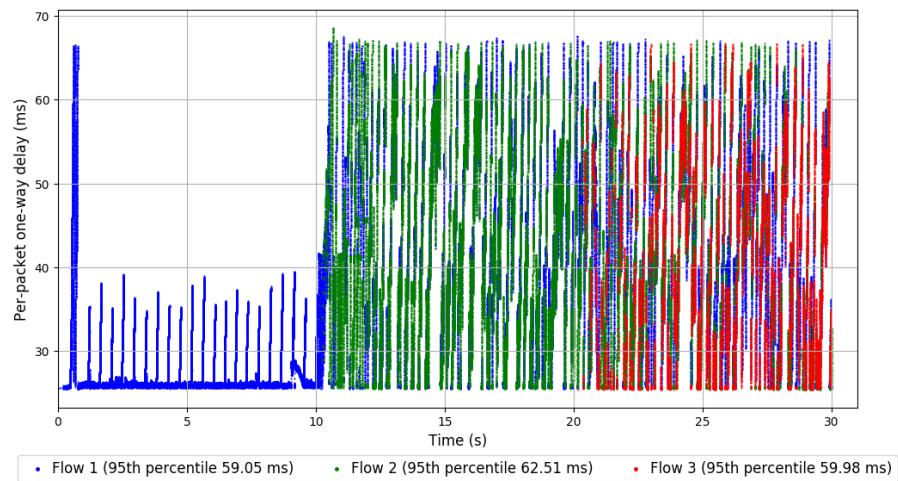
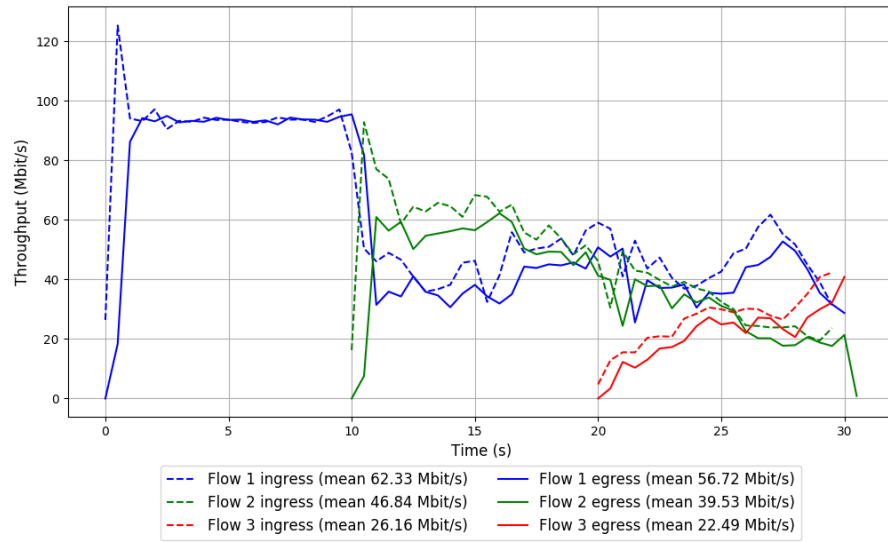


Run 1: Statistics of FillP-Sheep

Start at: 2019-07-17 23:14:29  
End at: 2019-07-17 23:14:59  
Local clock offset: -4.163 ms  
Remote clock offset: -5.237 ms

# Below is generated by plot.py at 2019-07-18 01:45:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.43 Mbit/s  
95th percentile per-packet one-way delay: 60.616 ms  
Loss rate: 11.48%  
-- Flow 1:  
Average throughput: 56.72 Mbit/s  
95th percentile per-packet one-way delay: 59.047 ms  
Loss rate: 9.00%  
-- Flow 2:  
Average throughput: 39.53 Mbit/s  
95th percentile per-packet one-way delay: 62.508 ms  
Loss rate: 15.65%  
-- Flow 3:  
Average throughput: 22.49 Mbit/s  
95th percentile per-packet one-way delay: 59.985 ms  
Loss rate: 14.27%

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

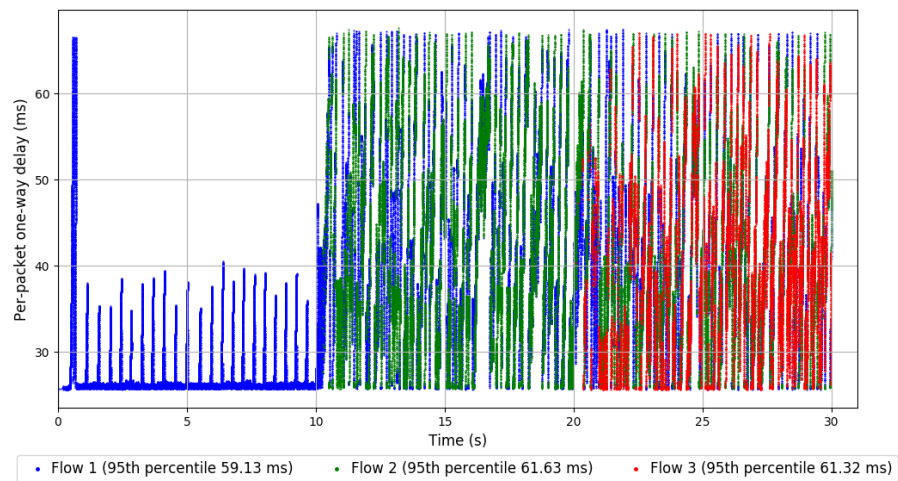
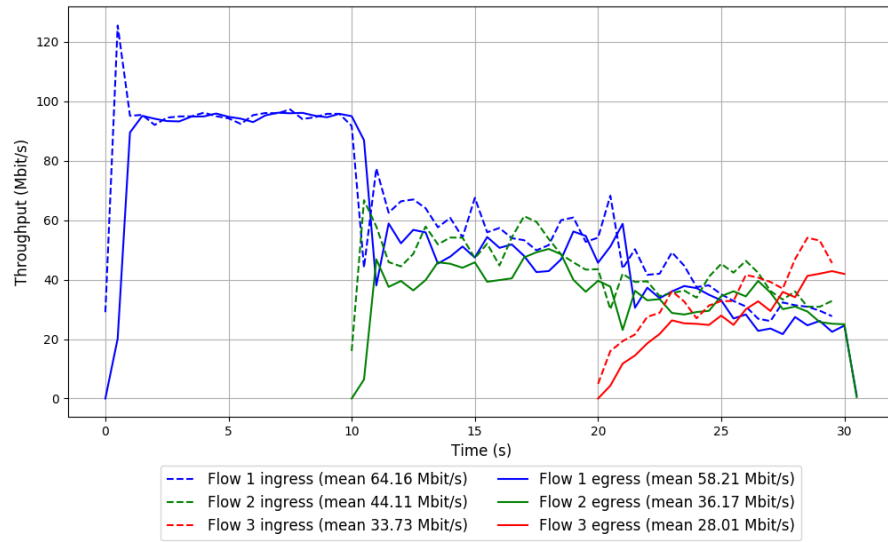


Run 2: Statistics of FillP-Sheep

Start at: 2019-07-17 23:47:04  
End at: 2019-07-17 23:47:34  
Local clock offset: -0.787 ms  
Remote clock offset: -4.529 ms

# Below is generated by plot.py at 2019-07-18 01:45:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.54 Mbit/s  
95th percentile per-packet one-way delay: 60.394 ms  
Loss rate: 12.50%  
-- Flow 1:  
Average throughput: 58.21 Mbit/s  
95th percentile per-packet one-way delay: 59.127 ms  
Loss rate: 9.22%  
-- Flow 2:  
Average throughput: 36.17 Mbit/s  
95th percentile per-packet one-way delay: 61.633 ms  
Loss rate: 17.94%  
-- Flow 3:  
Average throughput: 28.01 Mbit/s  
95th percentile per-packet one-way delay: 61.316 ms  
Loss rate: 16.99%

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

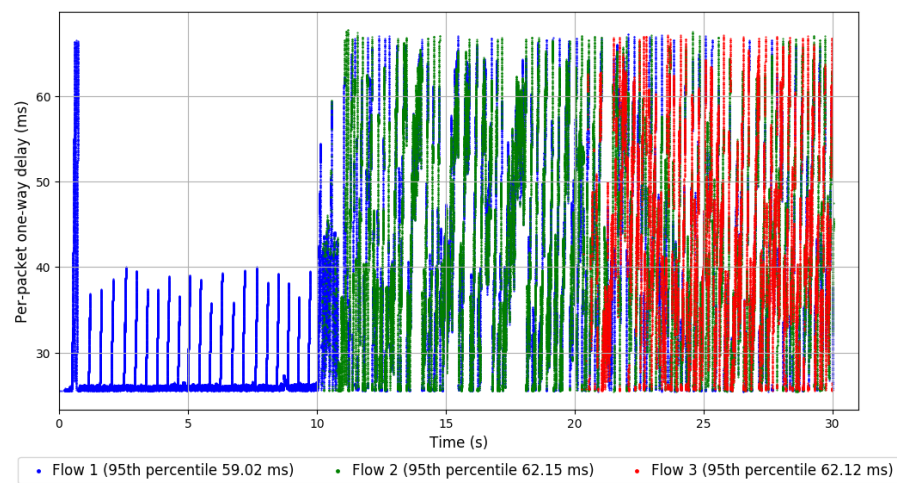
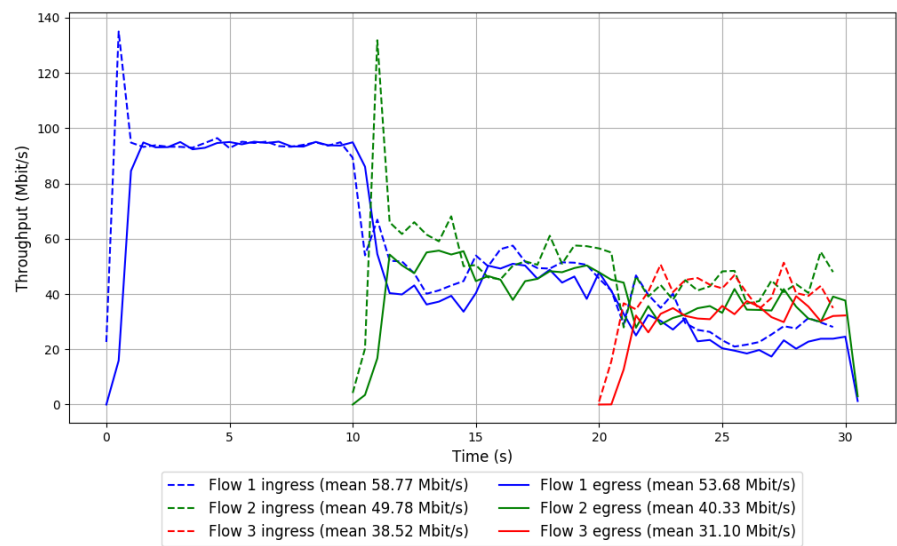


Run 3: Statistics of FillP-Sheep

Start at: 2019-07-18 00:19:30  
End at: 2019-07-18 00:20:00  
Local clock offset: -0.278 ms  
Remote clock offset: -3.421 ms

# Below is generated by plot.py at 2019-07-18 01:45:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.60 Mbit/s  
95th percentile per-packet one-way delay: 60.918 ms  
Loss rate: 13.40%  
-- Flow 1:  
Average throughput: 53.68 Mbit/s  
95th percentile per-packet one-way delay: 59.021 ms  
Loss rate: 8.65%  
-- Flow 2:  
Average throughput: 40.33 Mbit/s  
95th percentile per-packet one-way delay: 62.150 ms  
Loss rate: 18.90%  
-- Flow 3:  
Average throughput: 31.10 Mbit/s  
95th percentile per-packet one-way delay: 62.116 ms  
Loss rate: 21.01%

Run 3: Report of FillP-Sheep — Data Link

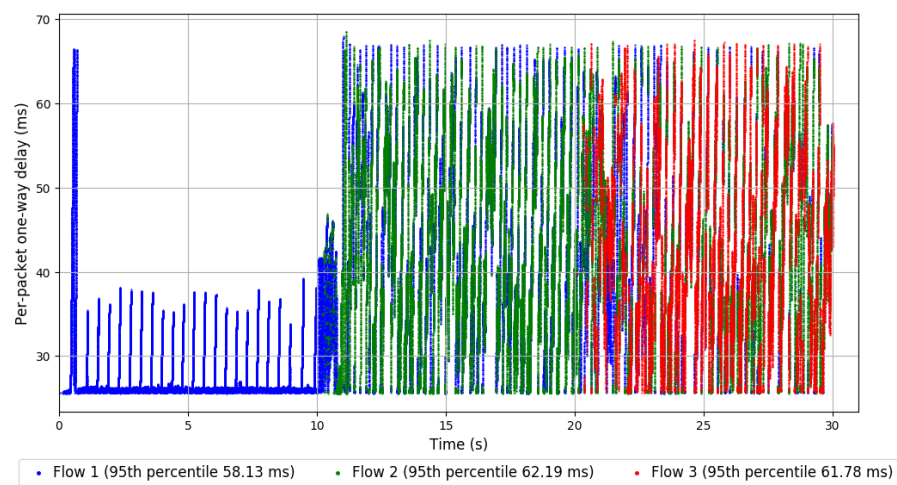
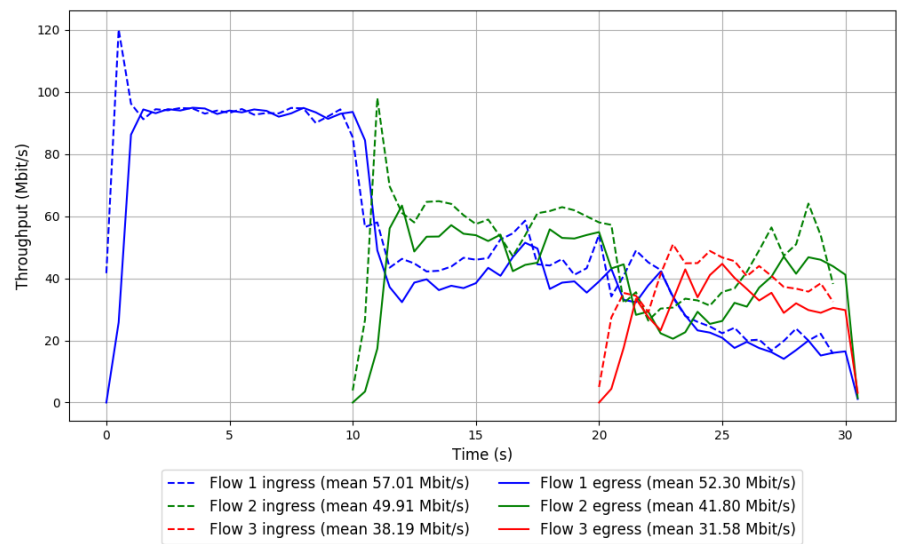


Run 4: Statistics of FillP-Sheep

Start at: 2019-07-18 00:52:43  
End at: 2019-07-18 00:53:13  
Local clock offset: 0.16 ms  
Remote clock offset: -2.565 ms

# Below is generated by plot.py at 2019-07-18 01:46:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.58 Mbit/s  
95th percentile per-packet one-way delay: 60.611 ms  
Loss rate: 11.88%  
-- Flow 1:  
Average throughput: 52.30 Mbit/s  
95th percentile per-packet one-way delay: 58.133 ms  
Loss rate: 8.20%  
-- Flow 2:  
Average throughput: 41.80 Mbit/s  
95th percentile per-packet one-way delay: 62.187 ms  
Loss rate: 16.15%  
-- Flow 3:  
Average throughput: 31.58 Mbit/s  
95th percentile per-packet one-way delay: 61.777 ms  
Loss rate: 17.19%

Run 4: Report of FillP-Sheep — Data Link

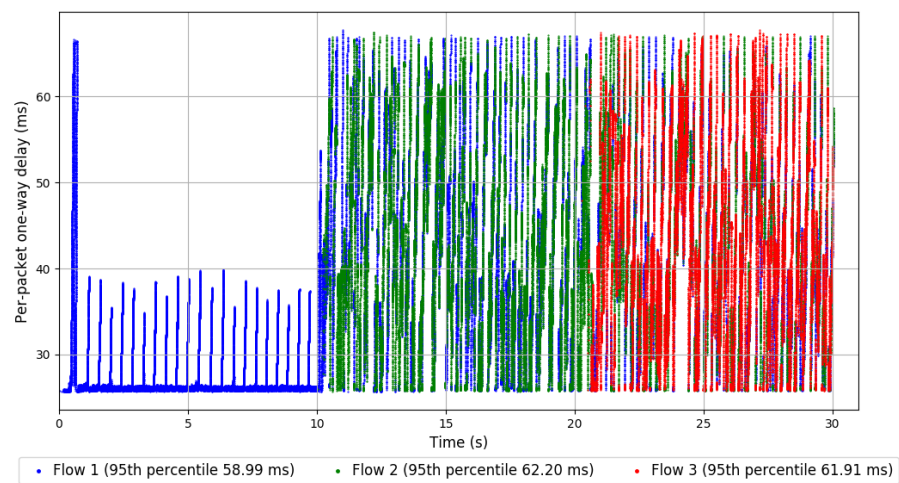
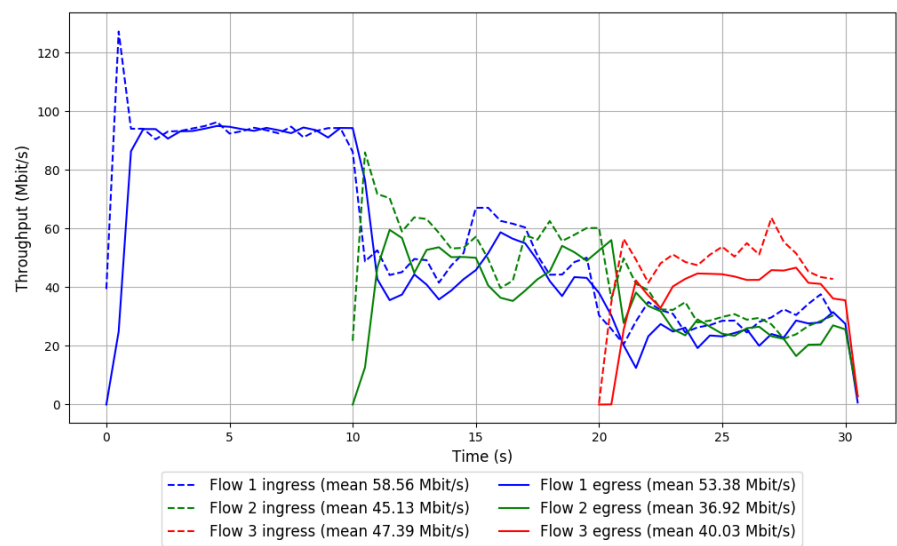


Run 5: Statistics of FillP-Sheep

Start at: 2019-07-18 01:28:16  
End at: 2019-07-18 01:28:46  
Local clock offset: 1.393 ms  
Remote clock offset: -2.838 ms

# Below is generated by plot.py at 2019-07-18 01:46:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.96 Mbit/s  
95th percentile per-packet one-way delay: 60.818 ms  
Loss rate: 12.73%  
-- Flow 1:  
Average throughput: 53.38 Mbit/s  
95th percentile per-packet one-way delay: 58.995 ms  
Loss rate: 8.75%  
-- Flow 2:  
Average throughput: 36.92 Mbit/s  
95th percentile per-packet one-way delay: 62.195 ms  
Loss rate: 18.09%  
-- Flow 3:  
Average throughput: 40.03 Mbit/s  
95th percentile per-packet one-way delay: 61.913 ms  
Loss rate: 17.34%

Run 5: Report of FillP-Sheep — Data Link

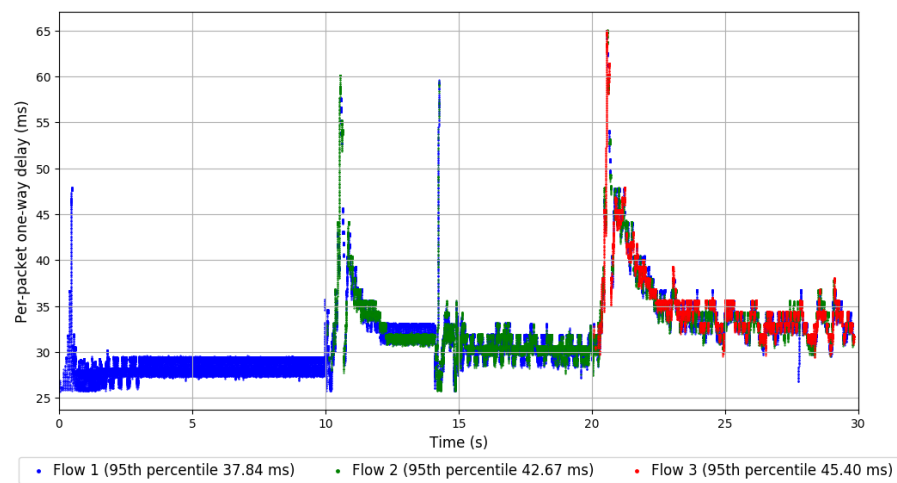
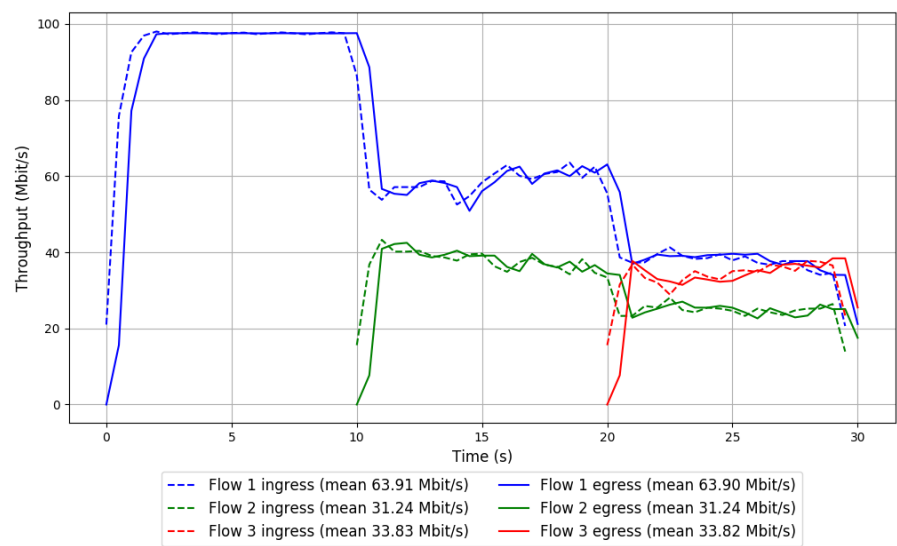


Run 1: Statistics of Indigo

Start at: 2019-07-17 22:52:06  
End at: 2019-07-17 22:52:36  
Local clock offset: -1.094 ms  
Remote clock offset: -4.952 ms

# Below is generated by plot.py at 2019-07-18 01:46:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.59 Mbit/s  
95th percentile per-packet one-way delay: 40.249 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 63.90 Mbit/s  
95th percentile per-packet one-way delay: 37.835 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 31.24 Mbit/s  
95th percentile per-packet one-way delay: 42.673 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 33.82 Mbit/s  
95th percentile per-packet one-way delay: 45.403 ms  
Loss rate: 0.02%

Run 1: Report of Indigo — Data Link

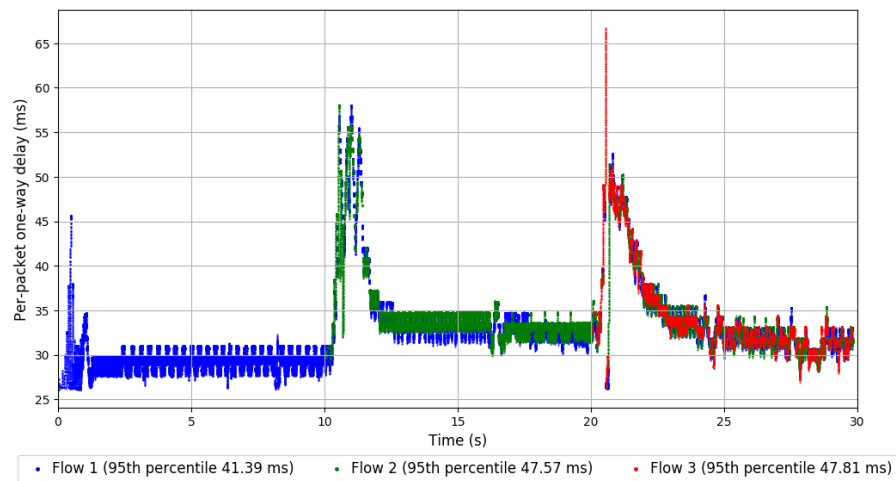
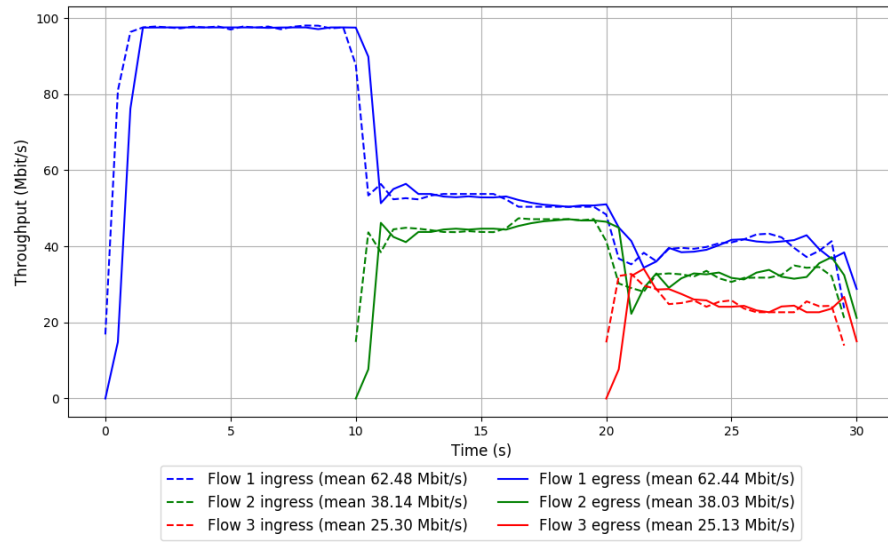


Run 2: Statistics of Indigo

Start at: 2019-07-17 23:27:14  
End at: 2019-07-17 23:27:44  
Local clock offset: -3.965 ms  
Remote clock offset: -4.964 ms

# Below is generated by plot.py at 2019-07-18 01:46:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.83 Mbit/s  
95th percentile per-packet one-way delay: 45.476 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 62.44 Mbit/s  
95th percentile per-packet one-way delay: 41.389 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 38.03 Mbit/s  
95th percentile per-packet one-way delay: 47.573 ms  
Loss rate: 0.29%  
-- Flow 3:  
Average throughput: 25.13 Mbit/s  
95th percentile per-packet one-way delay: 47.806 ms  
Loss rate: 0.65%

## Run 2: Report of Indigo — Data Link

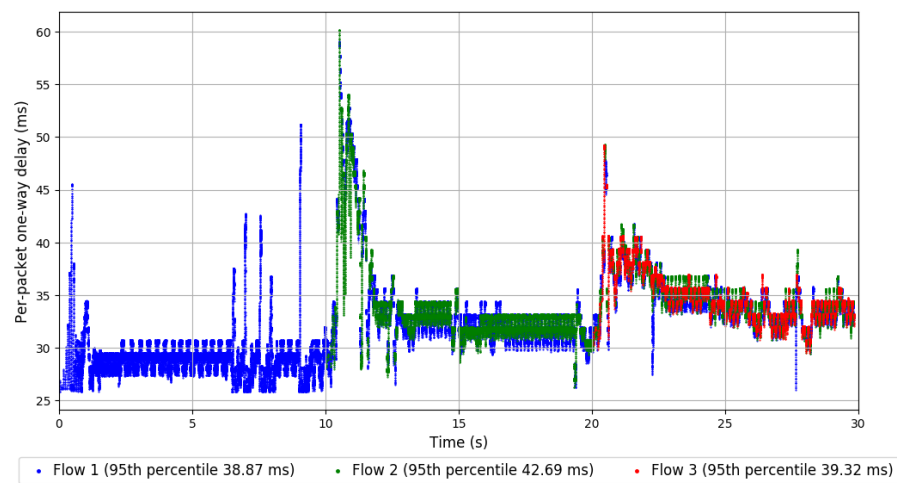
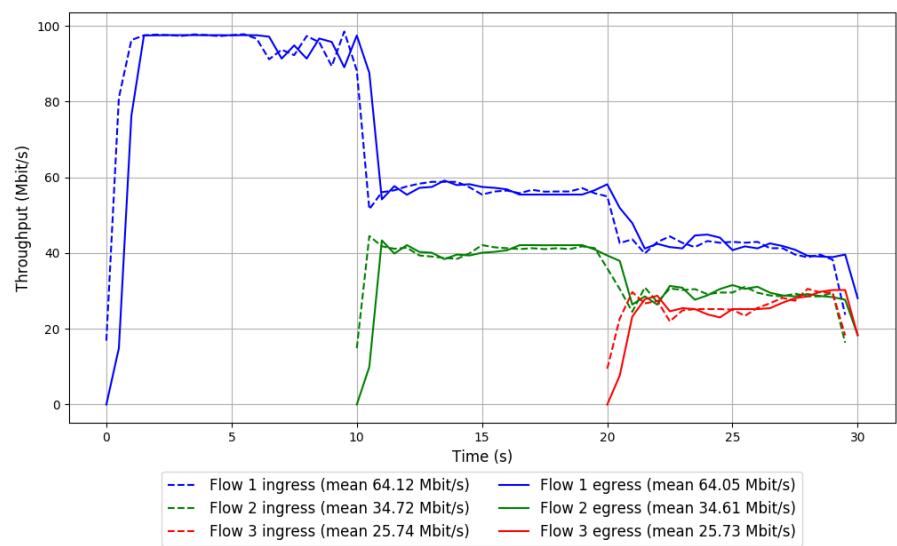


Run 3: Statistics of Indigo

Start at: 2019-07-17 23:58:54  
End at: 2019-07-17 23:59:24  
Local clock offset: -0.581 ms  
Remote clock offset: -4.093 ms

# Below is generated by plot.py at 2019-07-18 01:46:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.41 Mbit/s  
95th percentile per-packet one-way delay: 39.696 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 64.05 Mbit/s  
95th percentile per-packet one-way delay: 38.869 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 34.61 Mbit/s  
95th percentile per-packet one-way delay: 42.690 ms  
Loss rate: 0.30%  
-- Flow 3:  
Average throughput: 25.73 Mbit/s  
95th percentile per-packet one-way delay: 39.320 ms  
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link

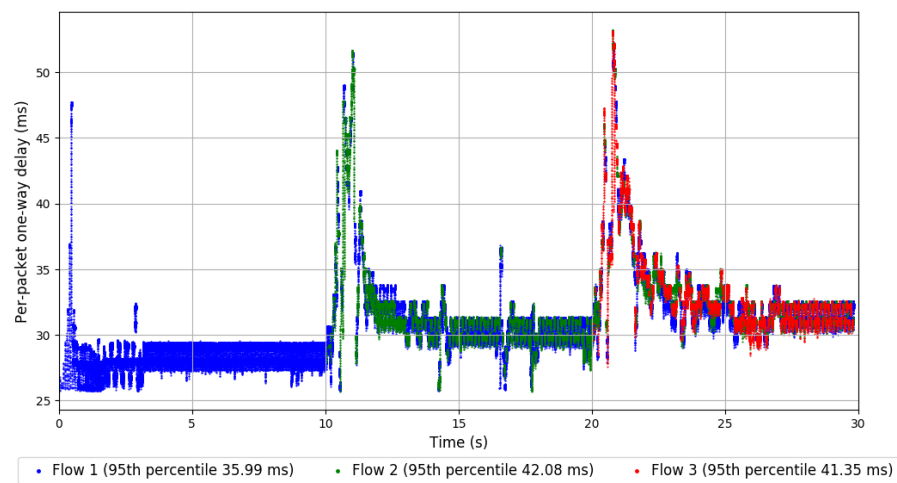
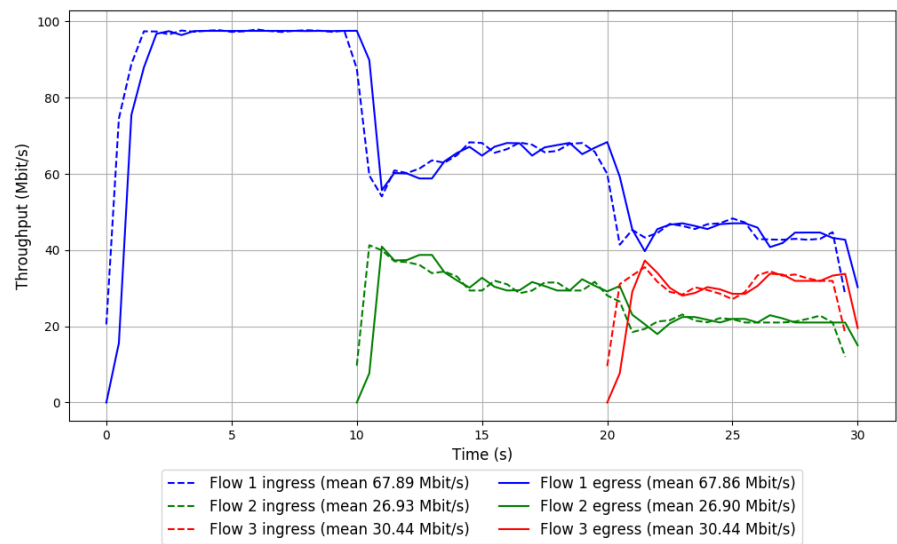


Run 4: Statistics of Indigo

Start at: 2019-07-18 00:31:46  
End at: 2019-07-18 00:32:16  
Local clock offset: -0.069 ms  
Remote clock offset: -2.986 ms

# Below is generated by plot.py at 2019-07-18 01:46:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.63 Mbit/s  
95th percentile per-packet one-way delay: 38.359 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 67.86 Mbit/s  
95th percentile per-packet one-way delay: 35.990 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 26.90 Mbit/s  
95th percentile per-packet one-way delay: 42.084 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 30.44 Mbit/s  
95th percentile per-packet one-way delay: 41.354 ms  
Loss rate: 0.00%

Run 4: Report of Indigo — Data Link

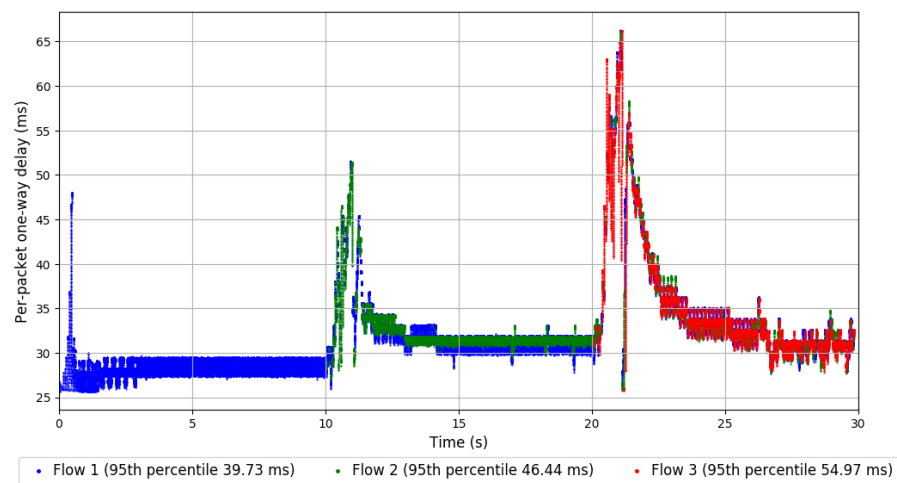
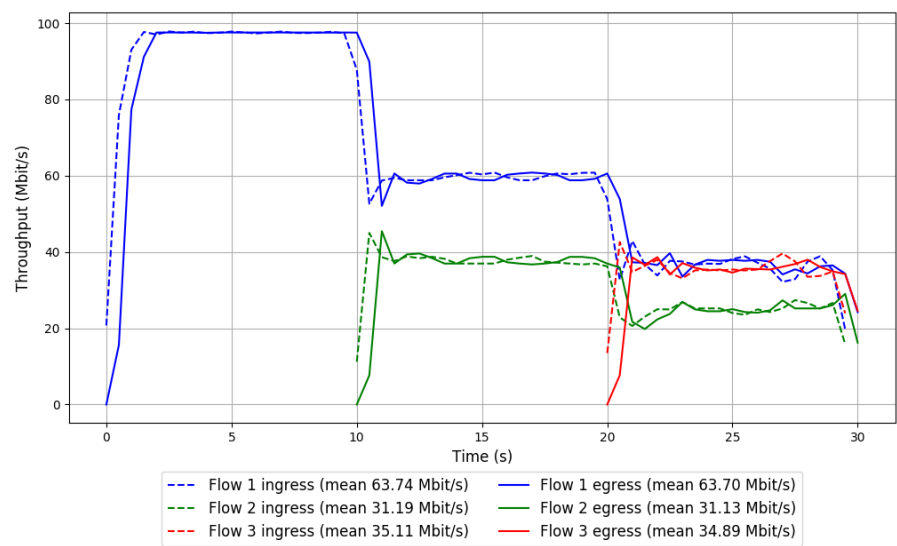


Run 5: Statistics of Indigo

Start at: 2019-07-18 01:05:38  
End at: 2019-07-18 01:06:08  
Local clock offset: 0.188 ms  
Remote clock offset: -2.772 ms

# Below is generated by plot.py at 2019-07-18 01:46:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.72 Mbit/s  
95th percentile per-packet one-way delay: 45.067 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 63.70 Mbit/s  
95th percentile per-packet one-way delay: 39.732 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 31.13 Mbit/s  
95th percentile per-packet one-way delay: 46.443 ms  
Loss rate: 0.18%  
-- Flow 3:  
Average throughput: 34.89 Mbit/s  
95th percentile per-packet one-way delay: 54.969 ms  
Loss rate: 0.61%

Run 5: Report of Indigo — Data Link

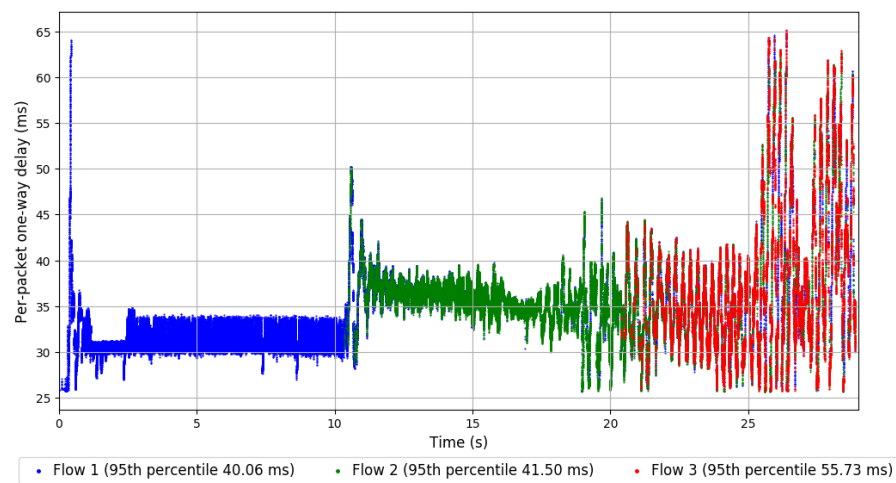
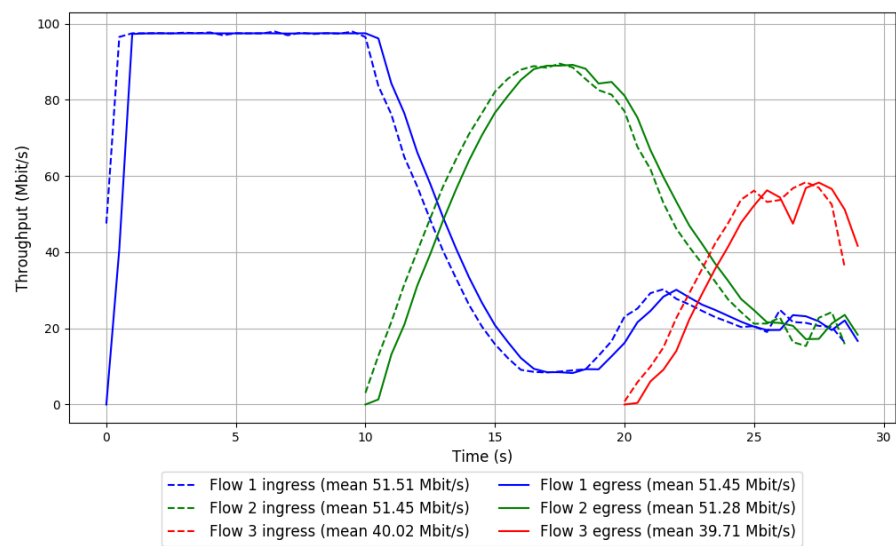


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-07-17 23:11:39  
End at: 2019-07-17 23:12:09  
Local clock offset: -3.89 ms  
Remote clock offset: -5.166 ms

# Below is generated by plot.py at 2019-07-18 01:46:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.32 Mbit/s  
95th percentile per-packet one-way delay: 43.473 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 51.45 Mbit/s  
95th percentile per-packet one-way delay: 40.057 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 51.28 Mbit/s  
95th percentile per-packet one-way delay: 41.496 ms  
Loss rate: 0.31%  
-- Flow 3:  
Average throughput: 39.71 Mbit/s  
95th percentile per-packet one-way delay: 55.726 ms  
Loss rate: 0.82%

Run 1: Report of Indigo-MusesC3 — Data Link

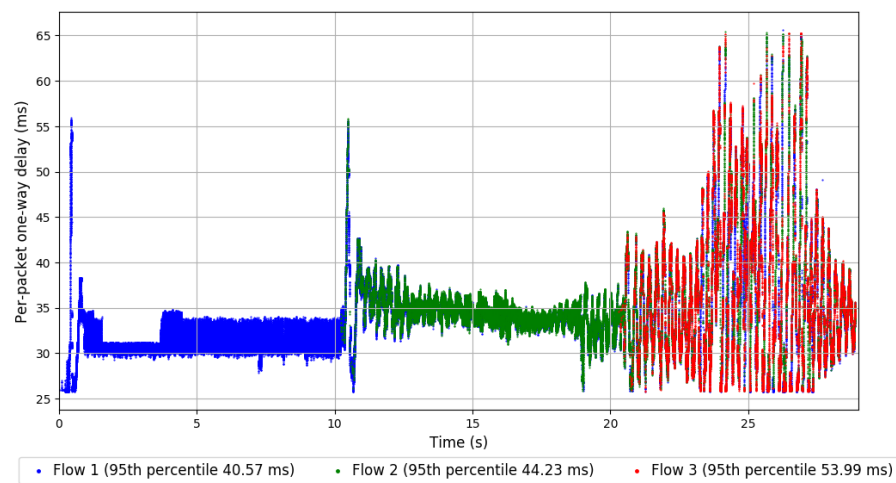
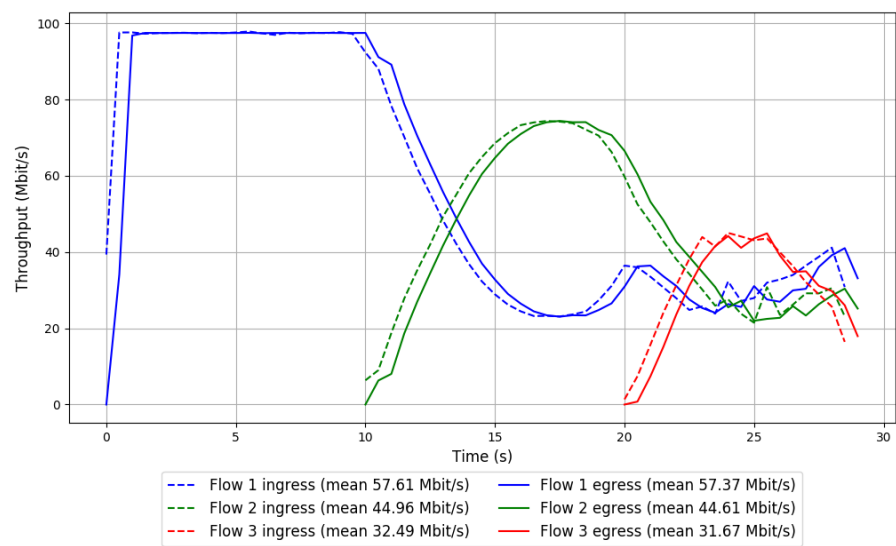


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-07-17 23:44:38  
End at: 2019-07-17 23:45:08  
Local clock offset: -0.851 ms  
Remote clock offset: -4.593 ms

# Below is generated by plot.py at 2019-07-18 01:47:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.75 Mbit/s  
95th percentile per-packet one-way delay: 44.642 ms  
Loss rate: 0.71%  
-- Flow 1:  
Average throughput: 57.37 Mbit/s  
95th percentile per-packet one-way delay: 40.574 ms  
Loss rate: 0.39%  
-- Flow 2:  
Average throughput: 44.61 Mbit/s  
95th percentile per-packet one-way delay: 44.228 ms  
Loss rate: 0.76%  
-- Flow 3:  
Average throughput: 31.67 Mbit/s  
95th percentile per-packet one-way delay: 53.992 ms  
Loss rate: 2.52%

Run 2: Report of Indigo-MusesC3 — Data Link

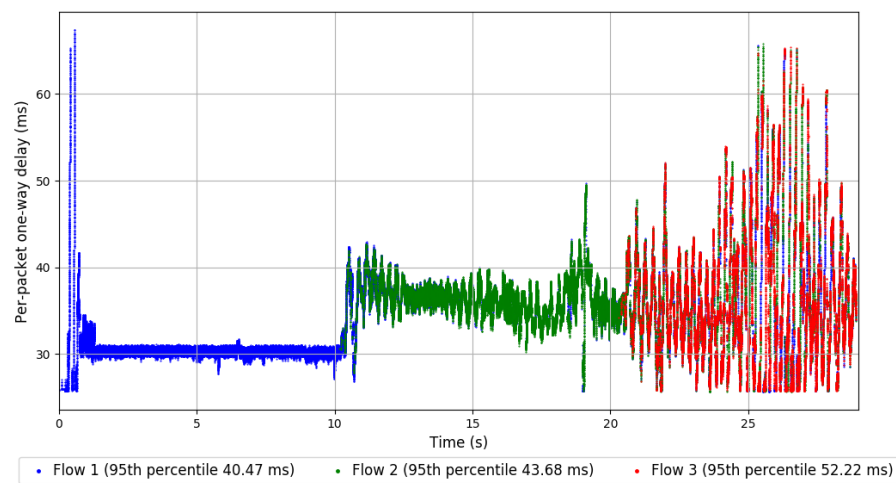
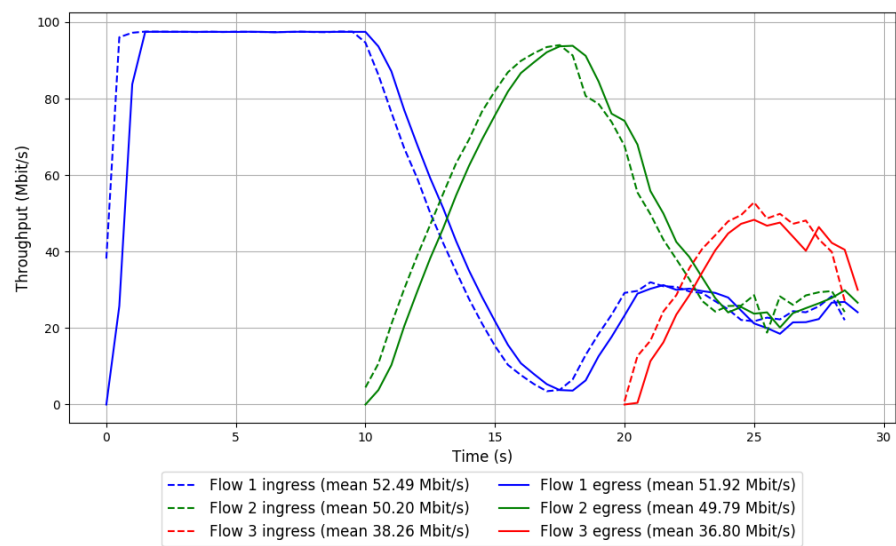


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-07-18 00:16:47  
End at: 2019-07-18 00:17:17  
Local clock offset: -0.286 ms  
Remote clock offset: -3.526 ms

# Below is generated by plot.py at 2019-07-18 01:47:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.20 Mbit/s  
95th percentile per-packet one-way delay: 43.937 ms  
Loss rate: 1.30%  
-- Flow 1:  
Average throughput: 51.92 Mbit/s  
95th percentile per-packet one-way delay: 40.466 ms  
Loss rate: 1.07%  
-- Flow 2:  
Average throughput: 49.79 Mbit/s  
95th percentile per-packet one-way delay: 43.680 ms  
Loss rate: 0.79%  
-- Flow 3:  
Average throughput: 36.80 Mbit/s  
95th percentile per-packet one-way delay: 52.216 ms  
Loss rate: 3.84%

Run 3: Report of Indigo-MusesC3 — Data Link

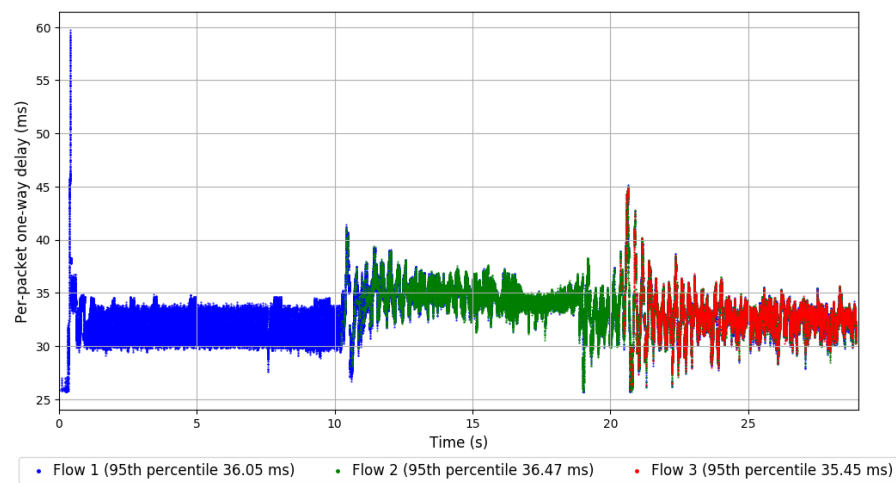
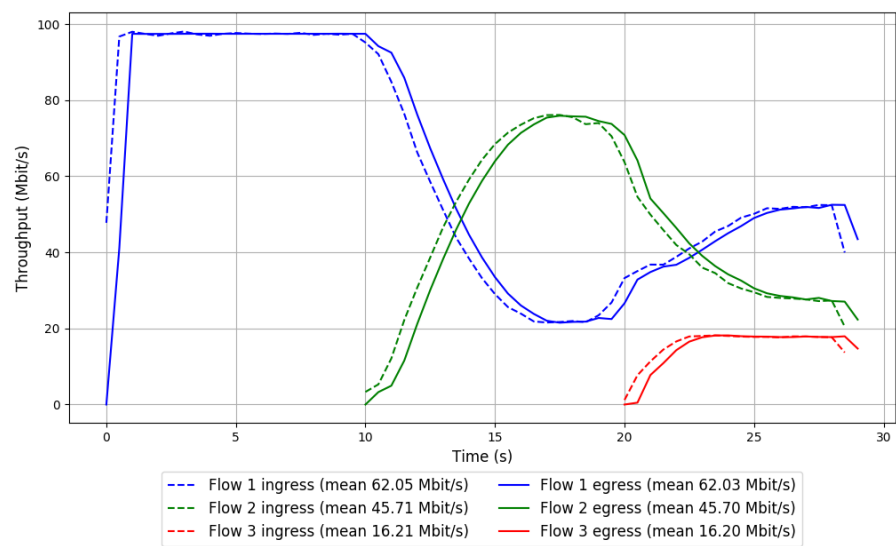


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-07-18 00:50:12  
End at: 2019-07-18 00:50:42  
Local clock offset: 0.152 ms  
Remote clock offset: -2.511 ms

# Below is generated by plot.py at 2019-07-18 01:47:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.54 Mbit/s  
95th percentile per-packet one-way delay: 36.223 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 62.03 Mbit/s  
95th percentile per-packet one-way delay: 36.046 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 45.70 Mbit/s  
95th percentile per-packet one-way delay: 36.470 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 16.20 Mbit/s  
95th percentile per-packet one-way delay: 35.454 ms  
Loss rate: 0.09%

Run 4: Report of Indigo-MusesC3 — Data Link

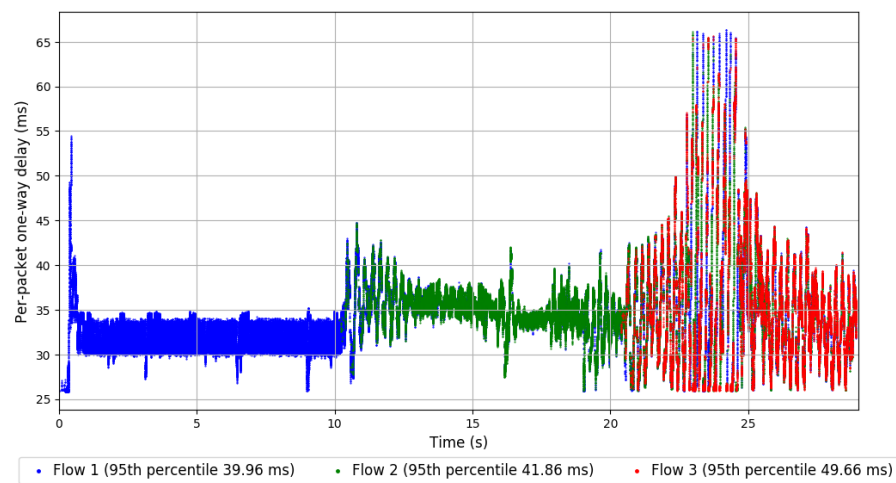
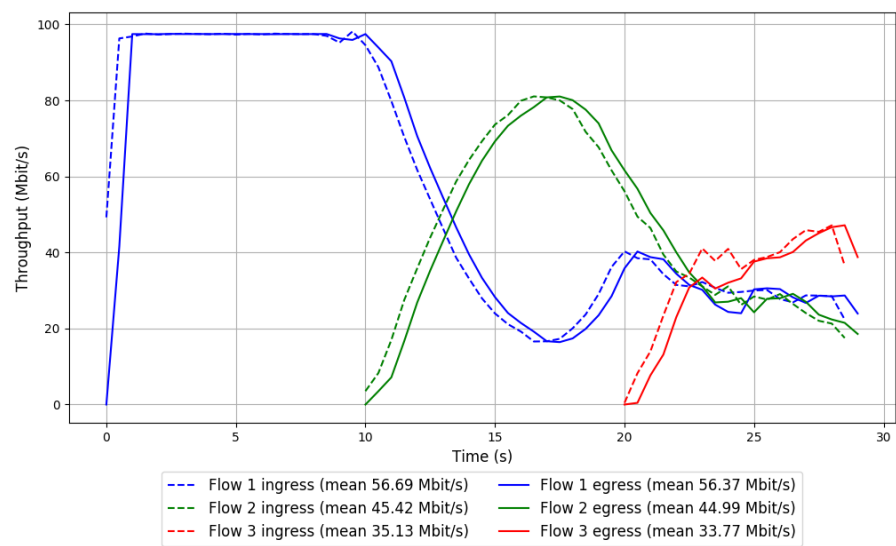


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-07-18 01:25:21  
End at: 2019-07-18 01:25:51  
Local clock offset: 0.582 ms  
Remote clock offset: -2.795 ms

# Below is generated by plot.py at 2019-07-18 01:47:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.60 Mbit/s  
95th percentile per-packet one-way delay: 41.661 ms  
Loss rate: 1.03%  
-- Flow 1:  
Average throughput: 56.37 Mbit/s  
95th percentile per-packet one-way delay: 39.956 ms  
Loss rate: 0.54%  
-- Flow 2:  
Average throughput: 44.99 Mbit/s  
95th percentile per-packet one-way delay: 41.859 ms  
Loss rate: 0.96%  
-- Flow 3:  
Average throughput: 33.77 Mbit/s  
95th percentile per-packet one-way delay: 49.656 ms  
Loss rate: 3.91%

Run 5: Report of Indigo-MusesC3 — Data Link

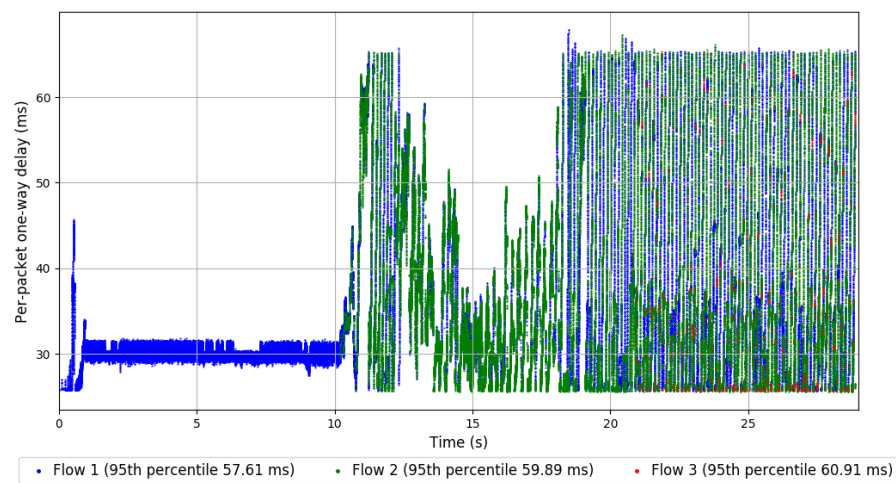
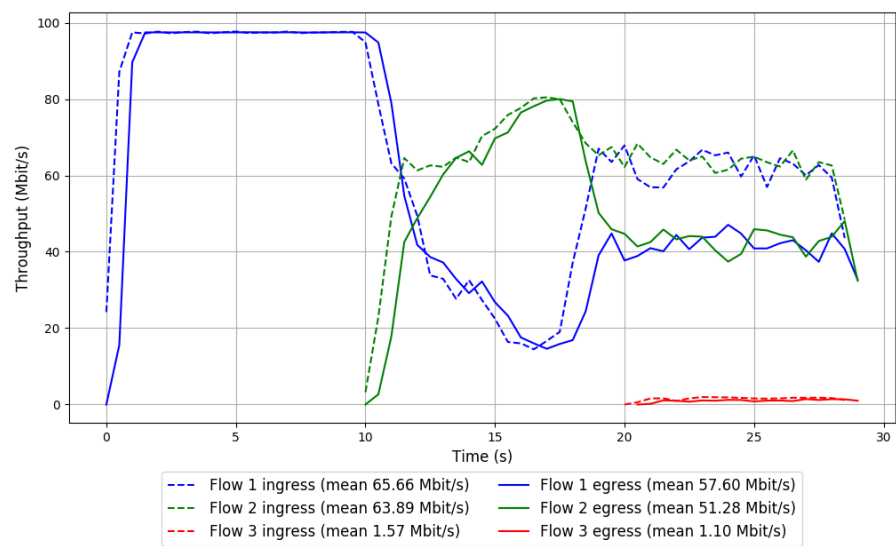


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-07-17 22:57:58  
End at: 2019-07-17 22:58:28  
Local clock offset: -1.978 ms  
Remote clock offset: -5.069 ms

# Below is generated by plot.py at 2019-07-18 01:47:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.22 Mbit/s  
95th percentile per-packet one-way delay: 58.742 ms  
Loss rate: 15.24%  
-- Flow 1:  
Average throughput: 57.60 Mbit/s  
95th percentile per-packet one-way delay: 57.609 ms  
Loss rate: 12.25%  
-- Flow 2:  
Average throughput: 51.28 Mbit/s  
95th percentile per-packet one-way delay: 59.889 ms  
Loss rate: 19.75%  
-- Flow 3:  
Average throughput: 1.10 Mbit/s  
95th percentile per-packet one-way delay: 60.914 ms  
Loss rate: 34.18%

Run 1: Report of Indigo-MusesC5 — Data Link

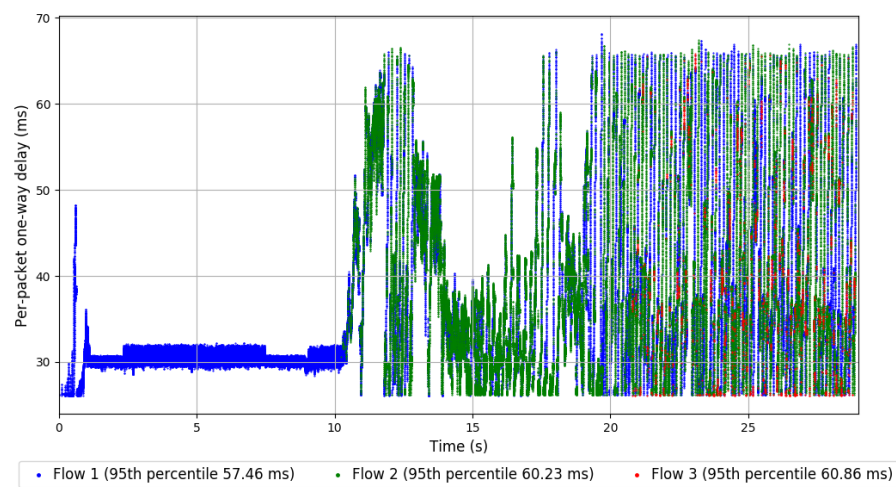
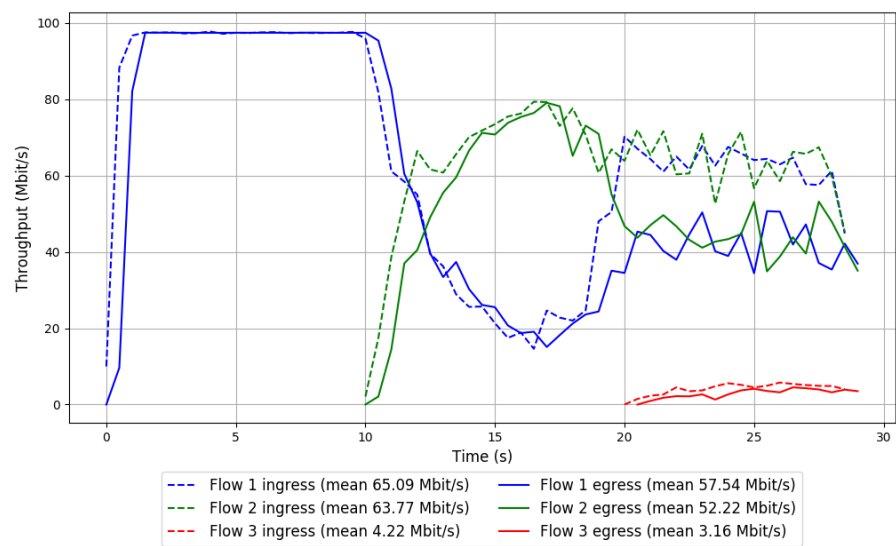


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-07-17 23:32:39  
End at: 2019-07-17 23:33:09  
Local clock offset: -2.174 ms  
Remote clock offset: -4.778 ms

# Below is generated by plot.py at 2019-07-18 01:47:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.20 Mbit/s  
95th percentile per-packet one-way delay: 58.755 ms  
Loss rate: 14.20%  
-- Flow 1:  
Average throughput: 57.54 Mbit/s  
95th percentile per-packet one-way delay: 57.459 ms  
Loss rate: 11.49%  
-- Flow 2:  
Average throughput: 52.22 Mbit/s  
95th percentile per-packet one-way delay: 60.234 ms  
Loss rate: 18.01%  
-- Flow 3:  
Average throughput: 3.16 Mbit/s  
95th percentile per-packet one-way delay: 60.864 ms  
Loss rate: 29.38%

Run 2: Report of Indigo-MusesC5 — Data Link

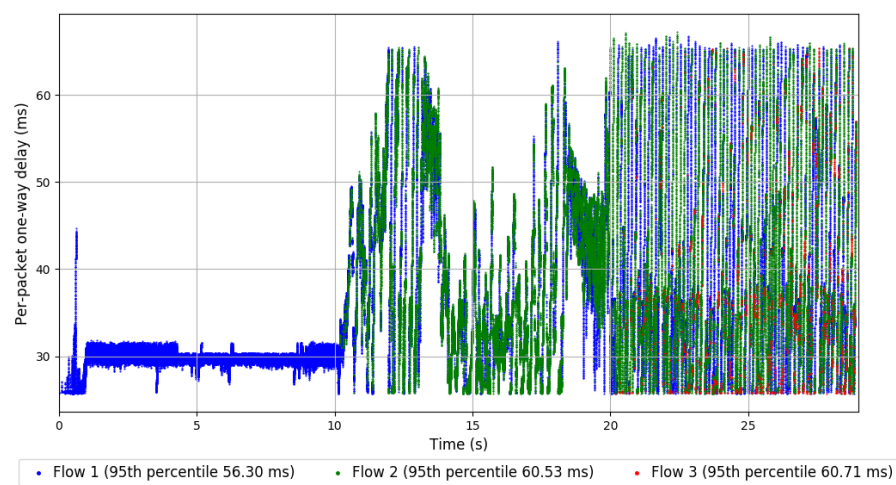
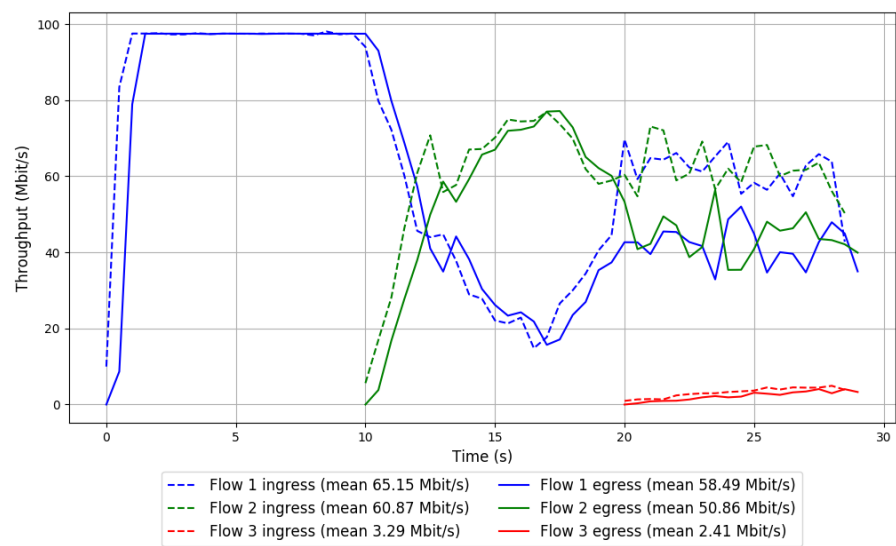


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-07-18 00:04:49  
End at: 2019-07-18 00:05:19  
Local clock offset: -0.385 ms  
Remote clock offset: -3.985 ms

# Below is generated by plot.py at 2019-07-18 01:47:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.29 Mbit/s  
95th percentile per-packet one-way delay: 58.540 ms  
Loss rate: 12.61%  
-- Flow 1:  
Average throughput: 58.49 Mbit/s  
95th percentile per-packet one-way delay: 56.299 ms  
Loss rate: 10.14%  
-- Flow 2:  
Average throughput: 50.86 Mbit/s  
95th percentile per-packet one-way delay: 60.527 ms  
Loss rate: 16.32%  
-- Flow 3:  
Average throughput: 2.41 Mbit/s  
95th percentile per-packet one-way delay: 60.710 ms  
Loss rate: 26.50%

Run 3: Report of Indigo-MusesC5 — Data Link

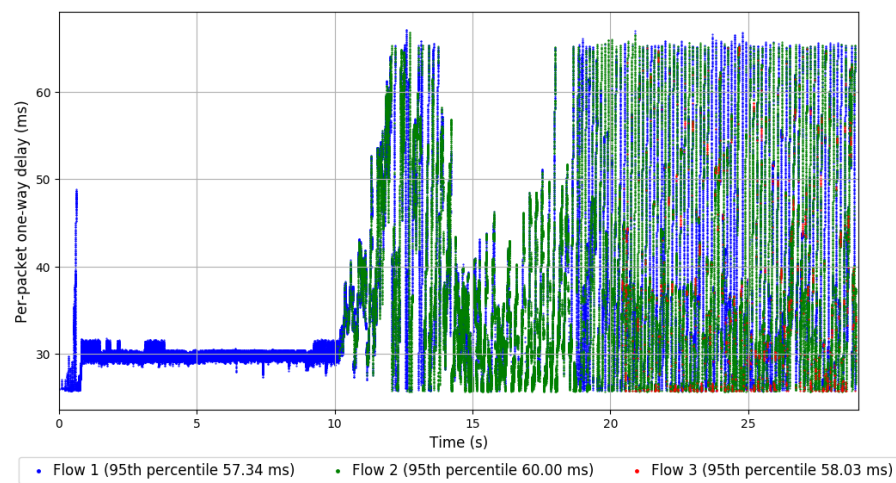
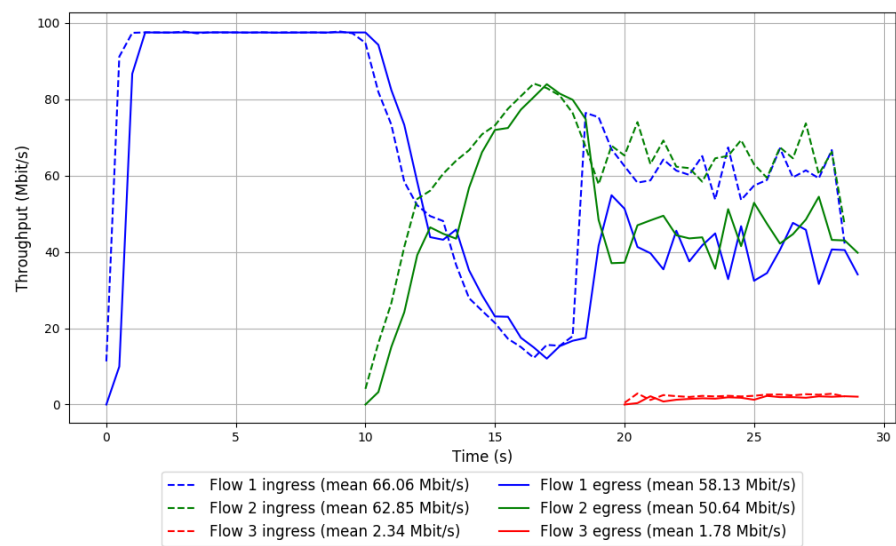


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-07-18 00:38:06  
End at: 2019-07-18 00:38:36  
Local clock offset: 0.052 ms  
Remote clock offset: -2.682 ms

# Below is generated by plot.py at 2019-07-18 01:47:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.60 Mbit/s  
95th percentile per-packet one-way delay: 58.547 ms  
Loss rate: 14.88%  
-- Flow 1:  
Average throughput: 58.13 Mbit/s  
95th percentile per-packet one-way delay: 57.340 ms  
Loss rate: 11.99%  
-- Flow 2:  
Average throughput: 50.64 Mbit/s  
95th percentile per-packet one-way delay: 59.997 ms  
Loss rate: 19.40%  
-- Flow 3:  
Average throughput: 1.78 Mbit/s  
95th percentile per-packet one-way delay: 58.028 ms  
Loss rate: 24.02%

Run 4: Report of Indigo-MusesC5 — Data Link

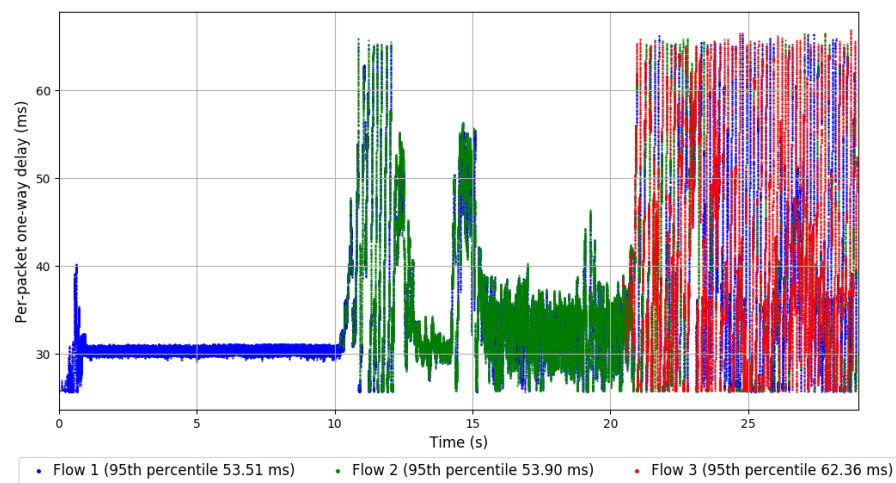
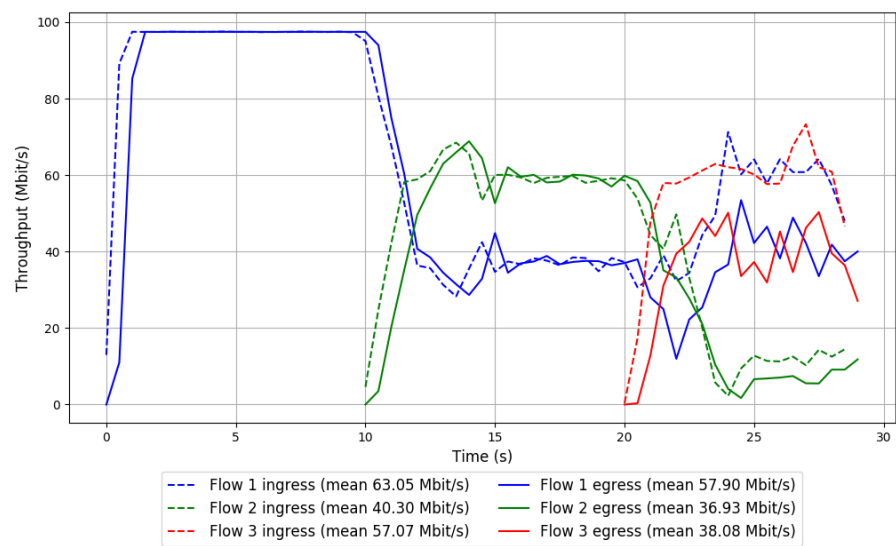


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-07-18 01:12:39  
End at: 2019-07-18 01:13:09  
Local clock offset: 0.237 ms  
Remote clock offset: -2.808 ms

# Below is generated by plot.py at 2019-07-18 01:48:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.18 Mbit/s  
95th percentile per-packet one-way delay: 56.160 ms  
Loss rate: 12.12%  
-- Flow 1:  
Average throughput: 57.90 Mbit/s  
95th percentile per-packet one-way delay: 53.511 ms  
Loss rate: 8.08%  
-- Flow 2:  
Average throughput: 36.93 Mbit/s  
95th percentile per-packet one-way delay: 53.898 ms  
Loss rate: 8.28%  
-- Flow 3:  
Average throughput: 38.08 Mbit/s  
95th percentile per-packet one-way delay: 62.356 ms  
Loss rate: 33.15%

Run 5: Report of Indigo-MusesC5 — Data Link

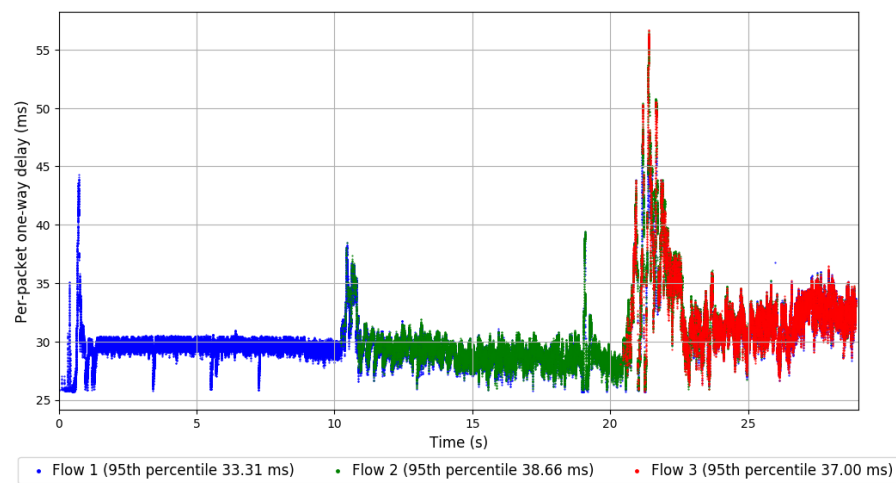
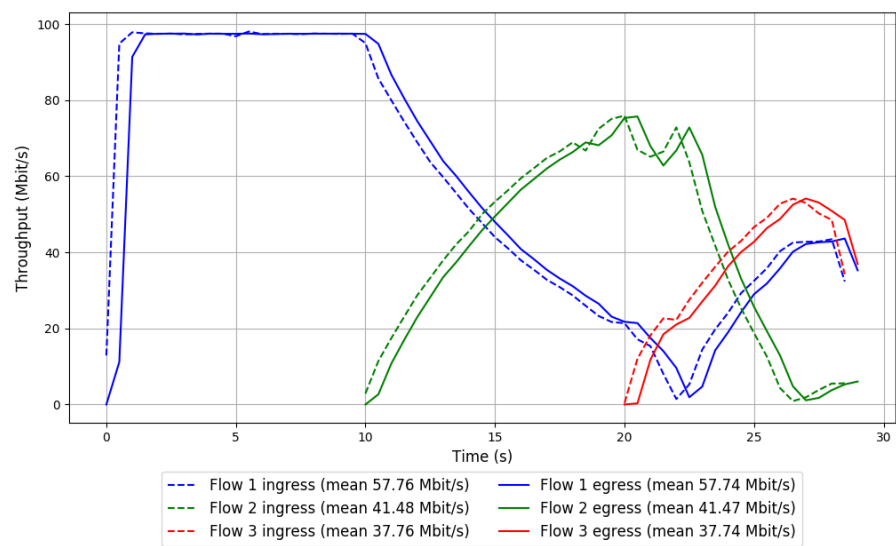


Run 1: Statistics of Indigo-MusesD

Start at: 2019-07-17 23:21:55  
End at: 2019-07-17 23:22:25  
Local clock offset: -4.957 ms  
Remote clock offset: -5.089 ms

# Below is generated by plot.py at 2019-07-18 01:48:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.77 Mbit/s  
95th percentile per-packet one-way delay: 35.287 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 57.74 Mbit/s  
95th percentile per-packet one-way delay: 33.311 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 41.47 Mbit/s  
95th percentile per-packet one-way delay: 38.659 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 37.74 Mbit/s  
95th percentile per-packet one-way delay: 36.997 ms  
Loss rate: 0.00%

Run 1: Report of Indigo-MusesD — Data Link

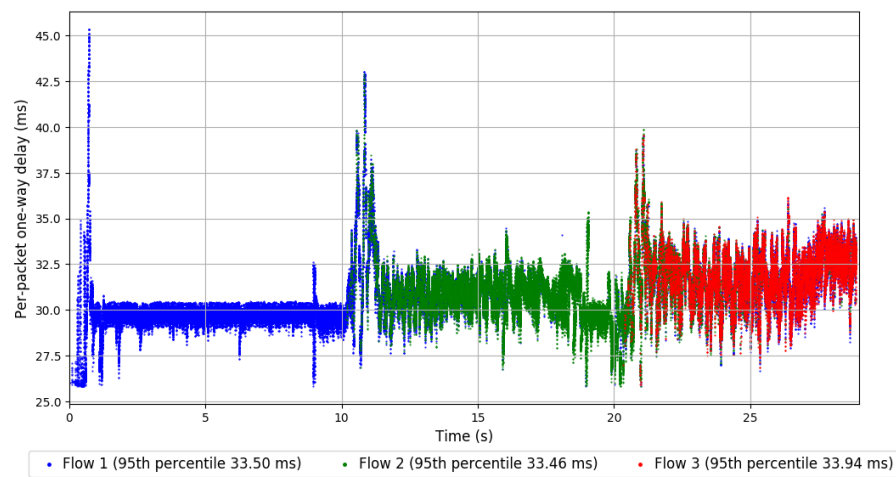
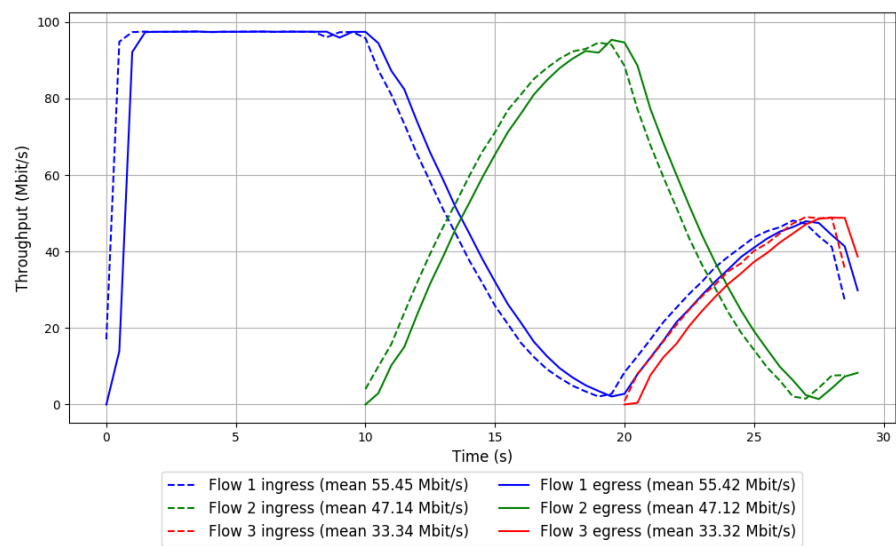


Run 2: Statistics of Indigo-MusesD

Start at: 2019-07-17 23:53:38  
End at: 2019-07-17 23:54:08  
Local clock offset: -0.797 ms  
Remote clock offset: -4.314 ms

# Below is generated by plot.py at 2019-07-18 01:48:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.94 Mbit/s  
95th percentile per-packet one-way delay: 33.592 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 55.42 Mbit/s  
95th percentile per-packet one-way delay: 33.500 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 47.12 Mbit/s  
95th percentile per-packet one-way delay: 33.464 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 33.32 Mbit/s  
95th percentile per-packet one-way delay: 33.942 ms  
Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link

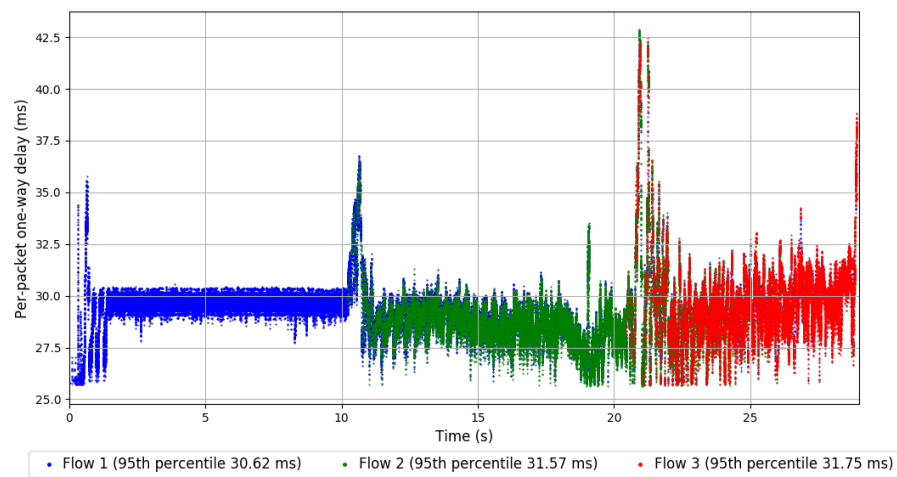
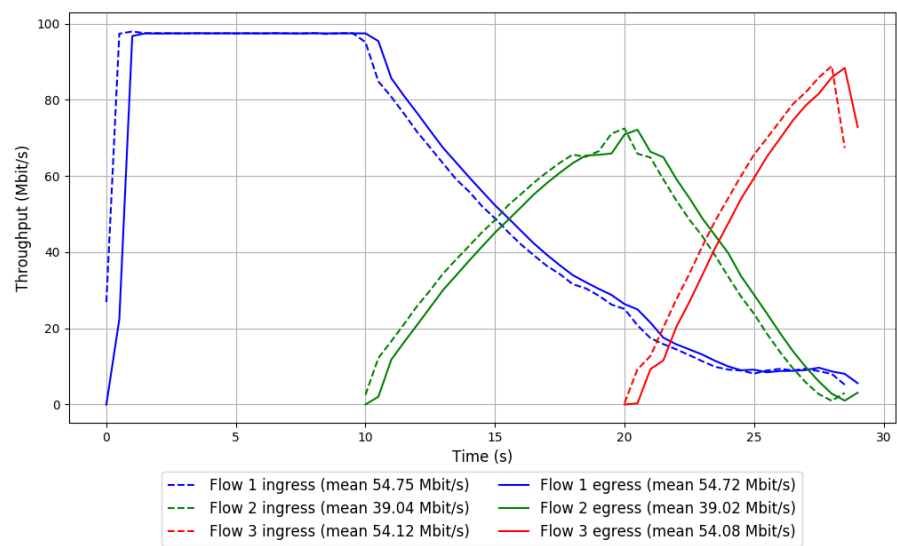


Run 3: Statistics of Indigo-MusesD

Start at: 2019-07-18 00:26:18  
End at: 2019-07-18 00:26:48  
Local clock offset: -0.2 ms  
Remote clock offset: -3.164 ms

# Below is generated by plot.py at 2019-07-18 01:48:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.97 Mbit/s  
95th percentile per-packet one-way delay: 31.316 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 54.72 Mbit/s  
95th percentile per-packet one-way delay: 30.620 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 39.02 Mbit/s  
95th percentile per-packet one-way delay: 31.568 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 54.08 Mbit/s  
95th percentile per-packet one-way delay: 31.749 ms  
Loss rate: 0.00%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-07-18 01:00:04

End at: 2019-07-18 01:00:34

Local clock offset: 0.174 ms

Remote clock offset: -2.67 ms

# Below is generated by plot.py at 2019-07-18 01:48:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.92 Mbit/s

95th percentile per-packet one-way delay: 34.221 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 56.75 Mbit/s

95th percentile per-packet one-way delay: 33.863 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 42.65 Mbit/s

95th percentile per-packet one-way delay: 32.437 ms

Loss rate: 0.08%

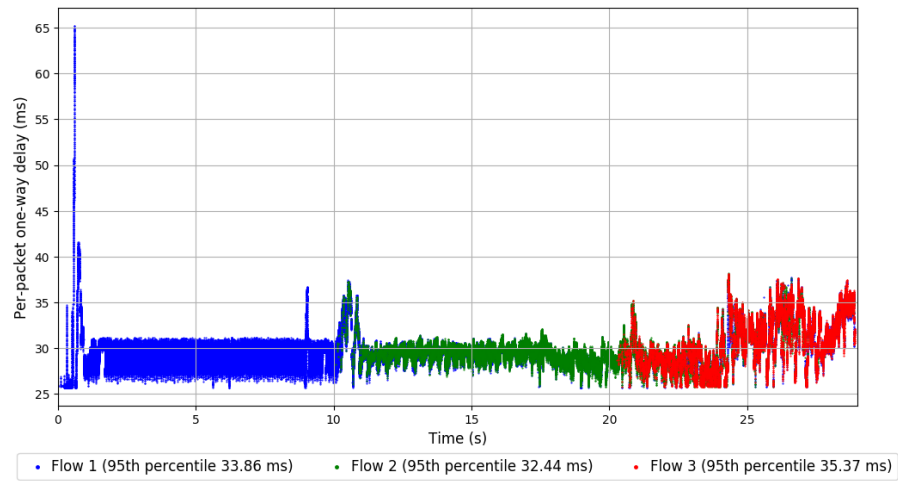
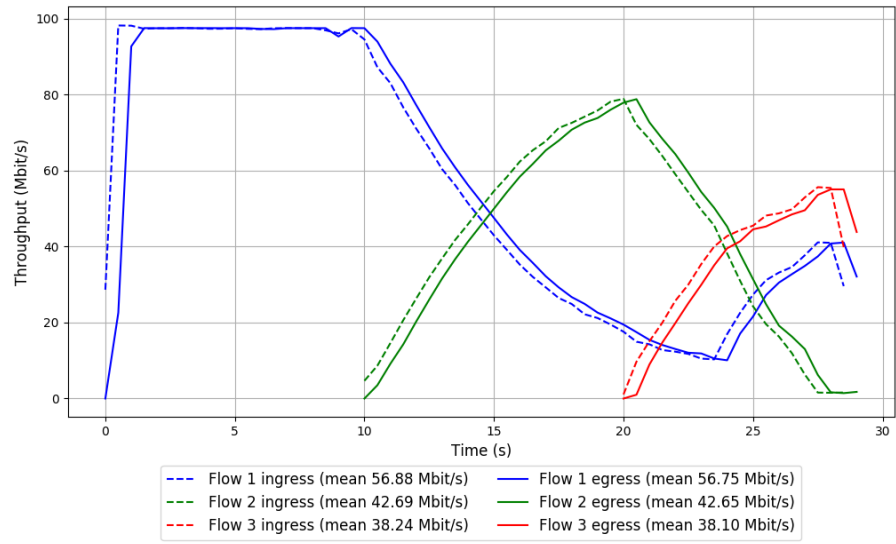
-- Flow 3:

Average throughput: 38.10 Mbit/s

95th percentile per-packet one-way delay: 35.368 ms

Loss rate: 0.33%

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

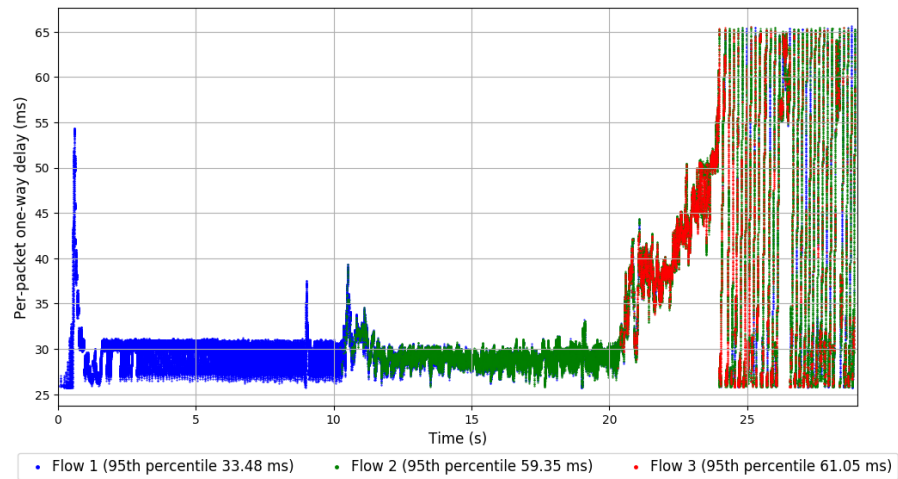
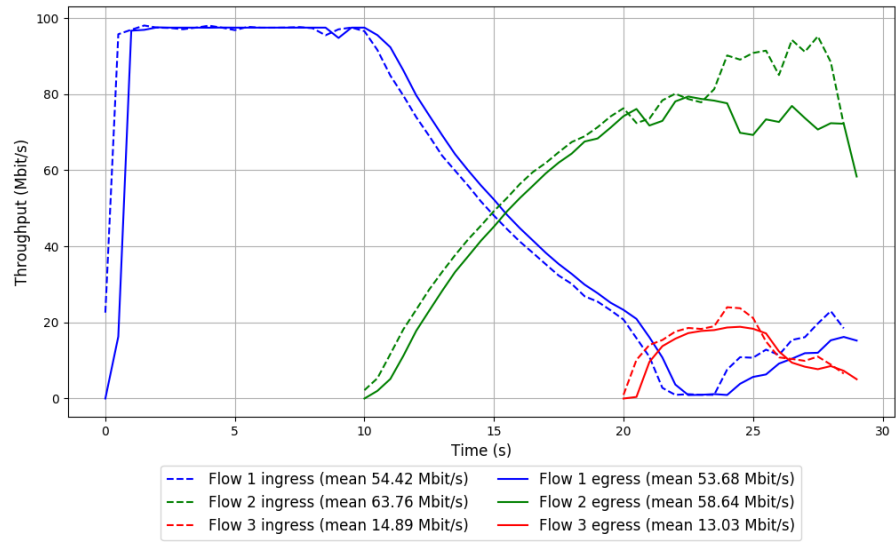


Run 5: Statistics of Indigo-MusesD

Start at: 2019-07-18 01:35:35  
End at: 2019-07-18 01:36:05  
Local clock offset: 2.78 ms  
Remote clock offset: -2.865 ms

# Below is generated by plot.py at 2019-07-18 01:48:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.47 Mbit/s  
95th percentile per-packet one-way delay: 54.662 ms  
Loss rate: 4.49%  
-- Flow 1:  
Average throughput: 53.68 Mbit/s  
95th percentile per-packet one-way delay: 33.481 ms  
Loss rate: 1.27%  
-- Flow 2:  
Average throughput: 58.64 Mbit/s  
95th percentile per-packet one-way delay: 59.348 ms  
Loss rate: 7.91%  
-- Flow 3:  
Average throughput: 13.03 Mbit/s  
95th percentile per-packet one-way delay: 61.049 ms  
Loss rate: 12.25%

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

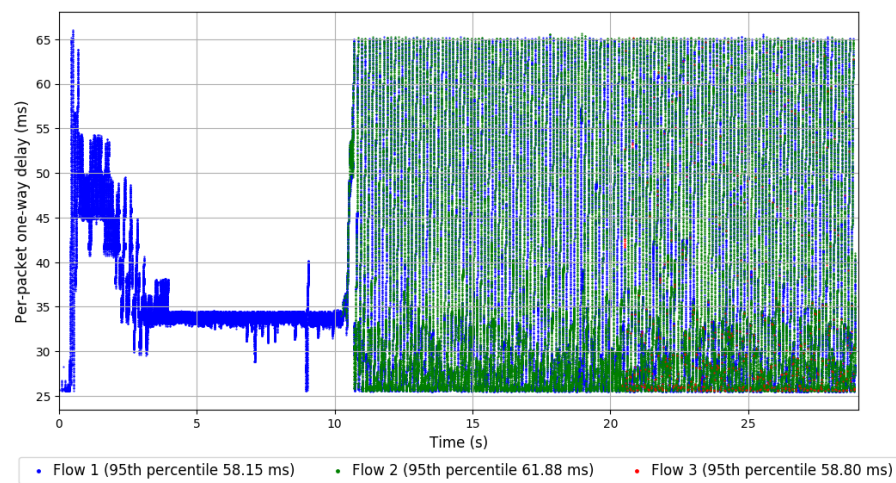
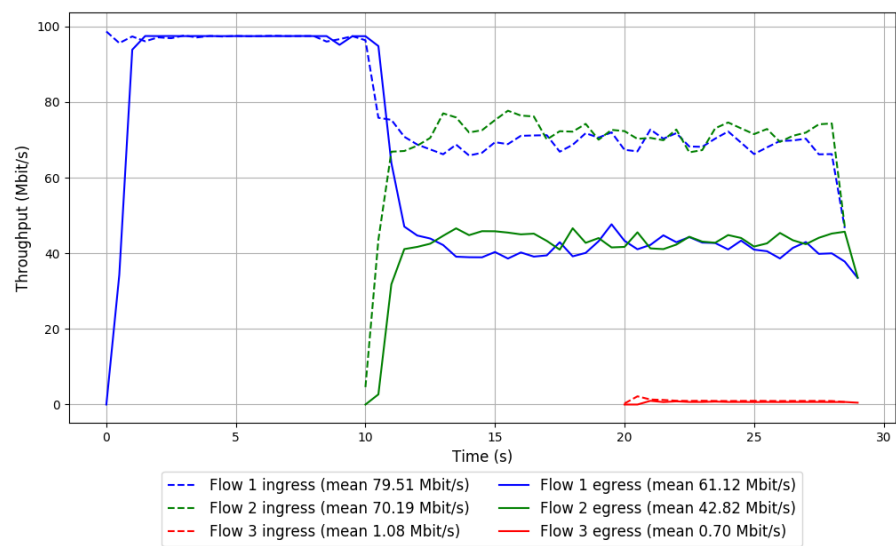


Run 1: Statistics of Indigo-MusesT

Start at: 2019-07-17 22:55:10  
End at: 2019-07-17 22:55:40  
Local clock offset: -1.388 ms  
Remote clock offset: -5.048 ms

# Below is generated by plot.py at 2019-07-18 01:49:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.00 Mbit/s  
95th percentile per-packet one-way delay: 59.957 ms  
Loss rate: 28.88%  
-- Flow 1:  
Average throughput: 61.12 Mbit/s  
95th percentile per-packet one-way delay: 58.154 ms  
Loss rate: 23.09%  
-- Flow 2:  
Average throughput: 42.82 Mbit/s  
95th percentile per-packet one-way delay: 61.883 ms  
Loss rate: 38.98%  
-- Flow 3:  
Average throughput: 0.70 Mbit/s  
95th percentile per-packet one-way delay: 58.804 ms  
Loss rate: 35.09%

Run 1: Report of Indigo-MusesT — Data Link

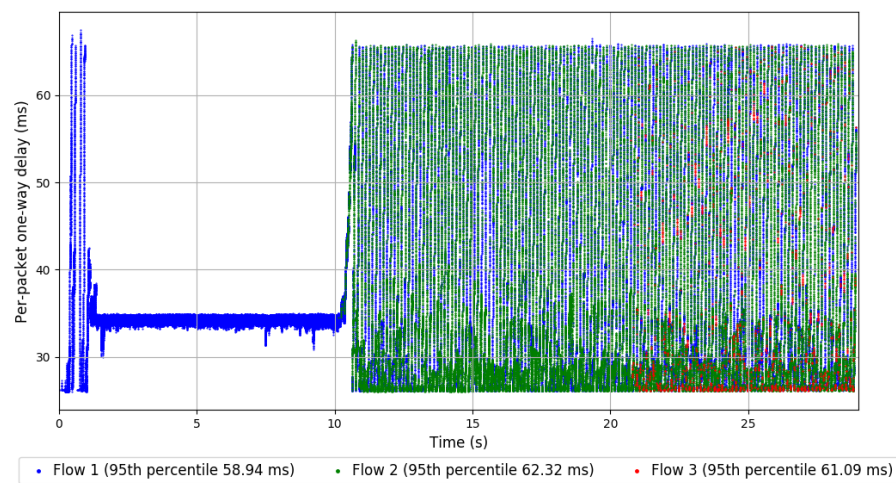
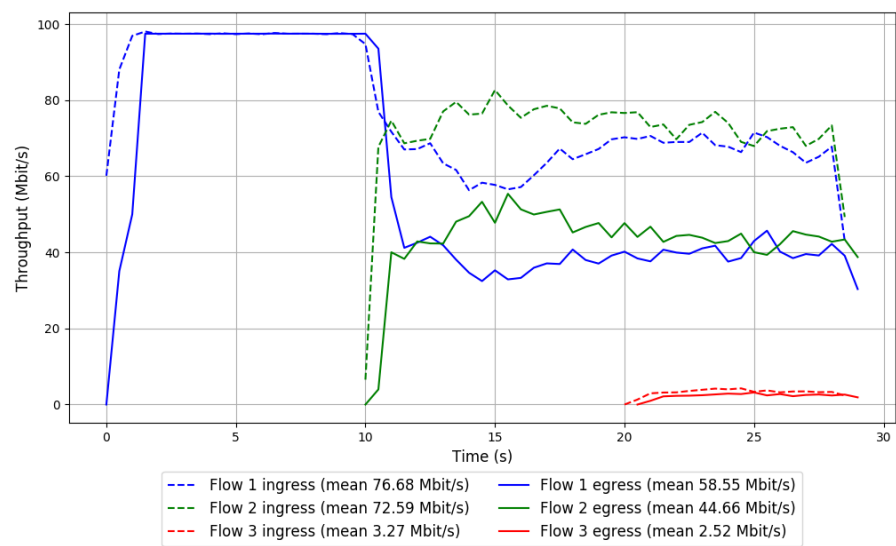


Run 2: Statistics of Indigo-MusesT

Start at: 2019-07-17 23:29:54  
End at: 2019-07-17 23:30:24  
Local clock offset: -2.996 ms  
Remote clock offset: -4.947 ms

# Below is generated by plot.py at 2019-07-18 01:49:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.27 Mbit/s  
95th percentile per-packet one-way delay: 60.733 ms  
Loss rate: 29.20%  
-- Flow 1:  
Average throughput: 58.55 Mbit/s  
95th percentile per-packet one-way delay: 58.939 ms  
Loss rate: 23.57%  
-- Flow 2:  
Average throughput: 44.66 Mbit/s  
95th percentile per-packet one-way delay: 62.320 ms  
Loss rate: 38.40%  
-- Flow 3:  
Average throughput: 2.52 Mbit/s  
95th percentile per-packet one-way delay: 61.094 ms  
Loss rate: 27.37%

Run 2: Report of Indigo-MusesT — Data Link

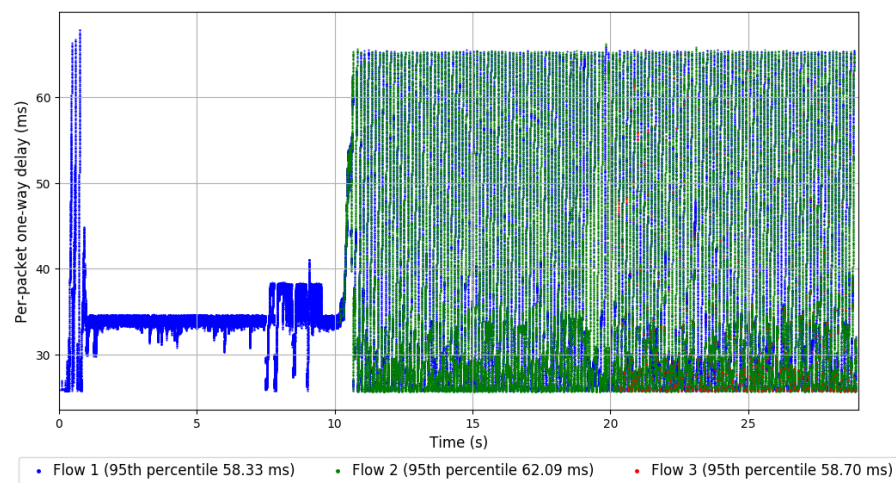
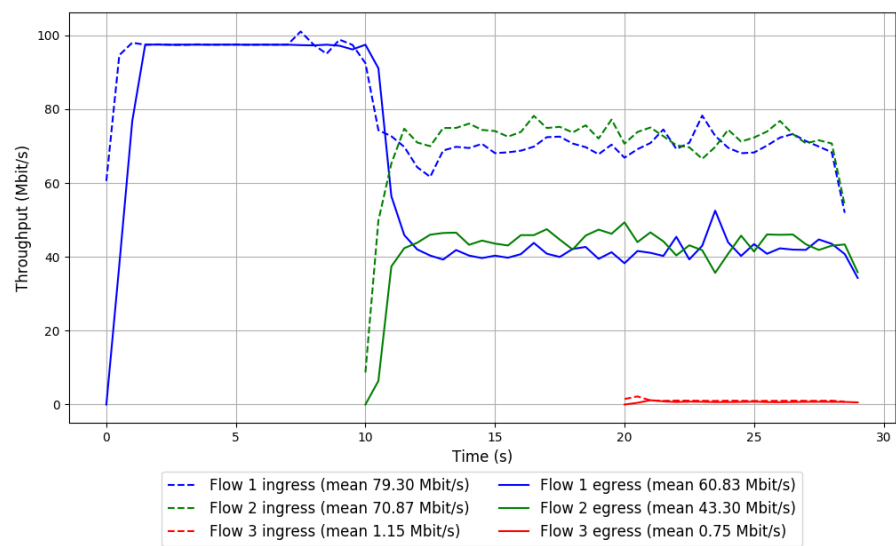


Run 3: Statistics of Indigo-MusesT

Start at: 2019-07-18 00:02:00  
End at: 2019-07-18 00:02:30  
Local clock offset: -0.455 ms  
Remote clock offset: -4.067 ms

# Below is generated by plot.py at 2019-07-18 01:49:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.22 Mbit/s  
95th percentile per-packet one-way delay: 60.236 ms  
Loss rate: 29.05%  
-- Flow 1:  
Average throughput: 60.83 Mbit/s  
95th percentile per-packet one-way delay: 58.334 ms  
Loss rate: 23.28%  
-- Flow 2:  
Average throughput: 43.30 Mbit/s  
95th percentile per-packet one-way delay: 62.088 ms  
Loss rate: 38.92%  
-- Flow 3:  
Average throughput: 0.75 Mbit/s  
95th percentile per-packet one-way delay: 58.705 ms  
Loss rate: 34.86%

Run 3: Report of Indigo-MusesT — Data Link

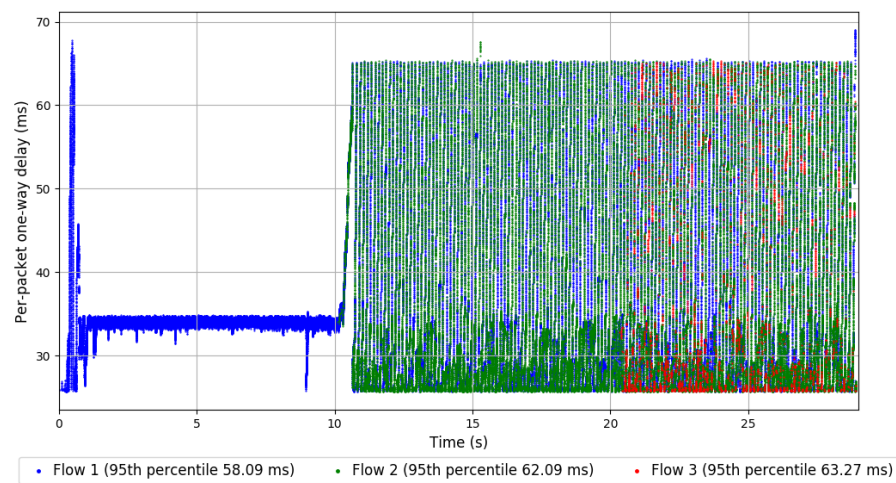
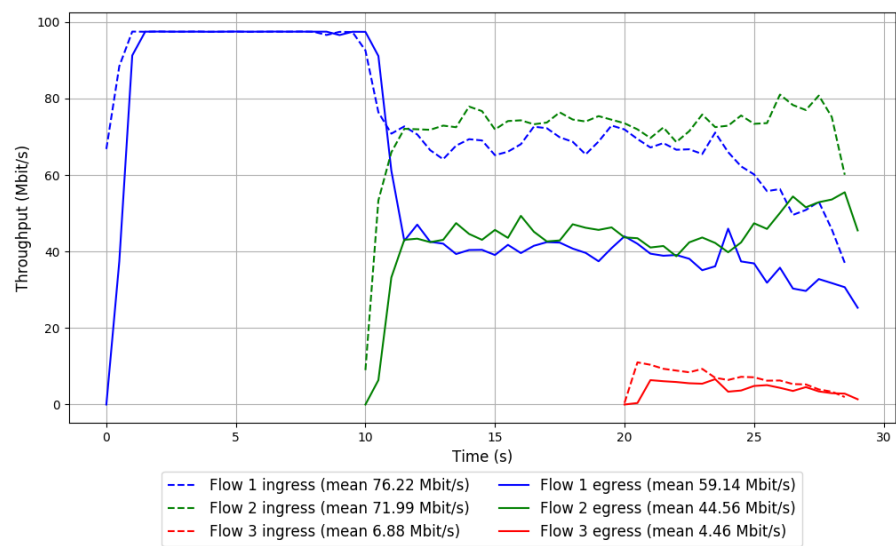


Run 4: Statistics of Indigo-MusesT

Start at: 2019-07-18 00:35:12  
End at: 2019-07-18 00:35:42  
Local clock offset: 0.025 ms  
Remote clock offset: -2.753 ms

# Below is generated by plot.py at 2019-07-18 01:49:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.48 Mbit/s  
95th percentile per-packet one-way delay: 60.239 ms  
Loss rate: 28.50%  
-- Flow 1:  
Average throughput: 59.14 Mbit/s  
95th percentile per-packet one-way delay: 58.091 ms  
Loss rate: 22.40%  
-- Flow 2:  
Average throughput: 44.56 Mbit/s  
95th percentile per-packet one-way delay: 62.091 ms  
Loss rate: 38.12%  
-- Flow 3:  
Average throughput: 4.46 Mbit/s  
95th percentile per-packet one-way delay: 63.268 ms  
Loss rate: 35.20%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-07-18 01:08:49

End at: 2019-07-18 01:09:19

Local clock offset: 0.176 ms

Remote clock offset: -2.75 ms

# Below is generated by plot.py at 2019-07-18 01:49:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.09 Mbit/s

95th percentile per-packet one-way delay: 60.199 ms

Loss rate: 28.56%

-- Flow 1:

Average throughput: 60.40 Mbit/s

95th percentile per-packet one-way delay: 58.268 ms

Loss rate: 22.62%

-- Flow 2:

Average throughput: 43.36 Mbit/s

95th percentile per-packet one-way delay: 62.102 ms

Loss rate: 38.65%

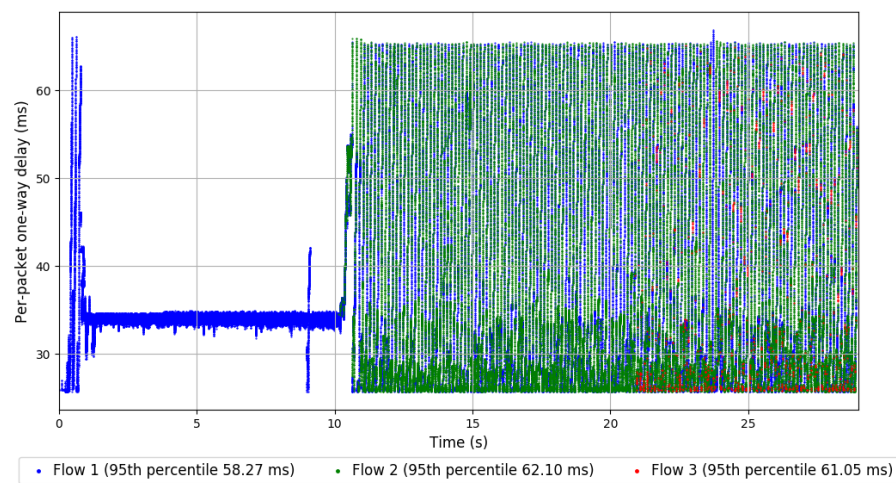
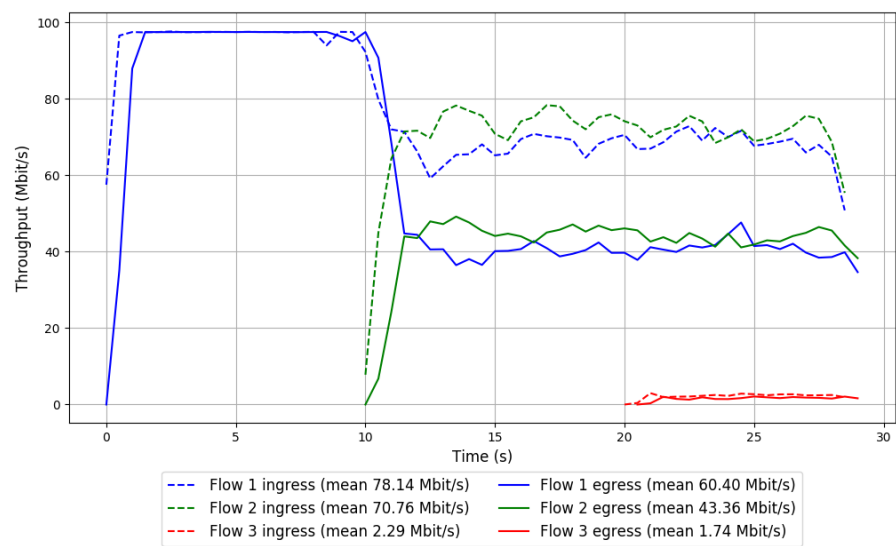
-- Flow 3:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 61.052 ms

Loss rate: 28.34%

Run 5: Report of Indigo-MusesT — Data Link

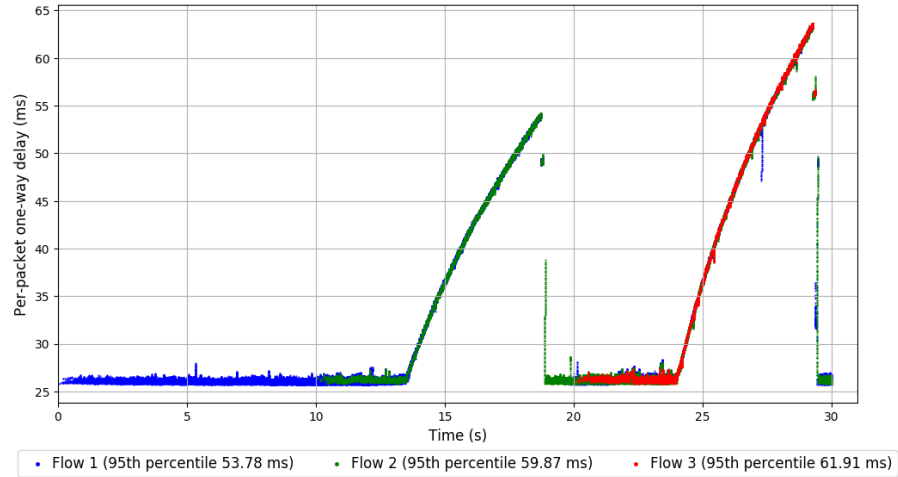
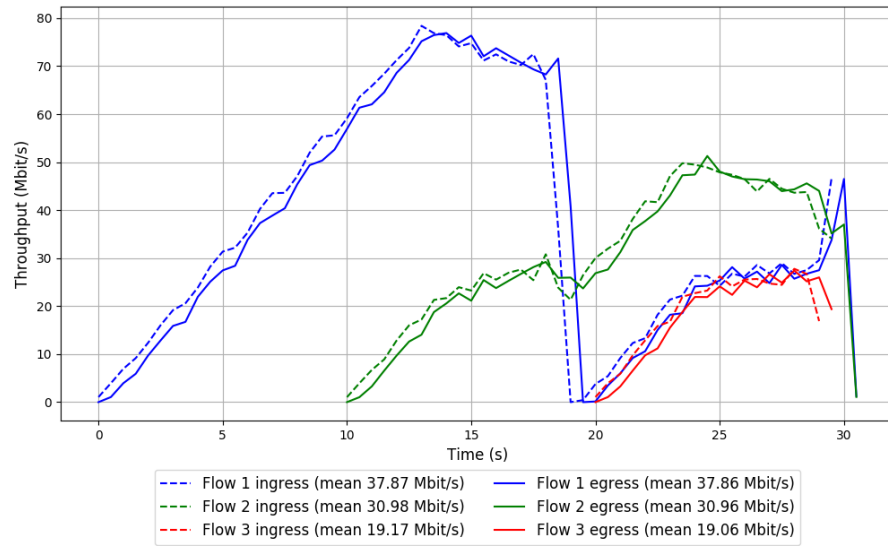


Run 1: Statistics of LEDBAT

Start at: 2019-07-17 22:53:39  
End at: 2019-07-17 22:54:09  
Local clock offset: -1.257 ms  
Remote clock offset: -4.976 ms

# Below is generated by plot.py at 2019-07-18 01:49:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 64.41 Mbit/s  
95th percentile per-packet one-way delay: 58.593 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 37.86 Mbit/s  
95th percentile per-packet one-way delay: 53.780 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 30.96 Mbit/s  
95th percentile per-packet one-way delay: 59.865 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 19.06 Mbit/s  
95th percentile per-packet one-way delay: 61.907 ms  
Loss rate: 0.28%

# Run 1: Report of LEDBAT — Data Link

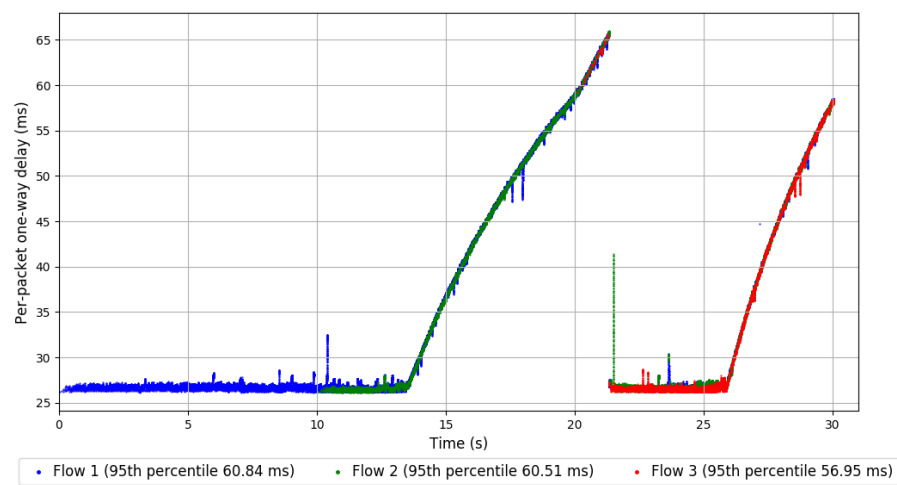
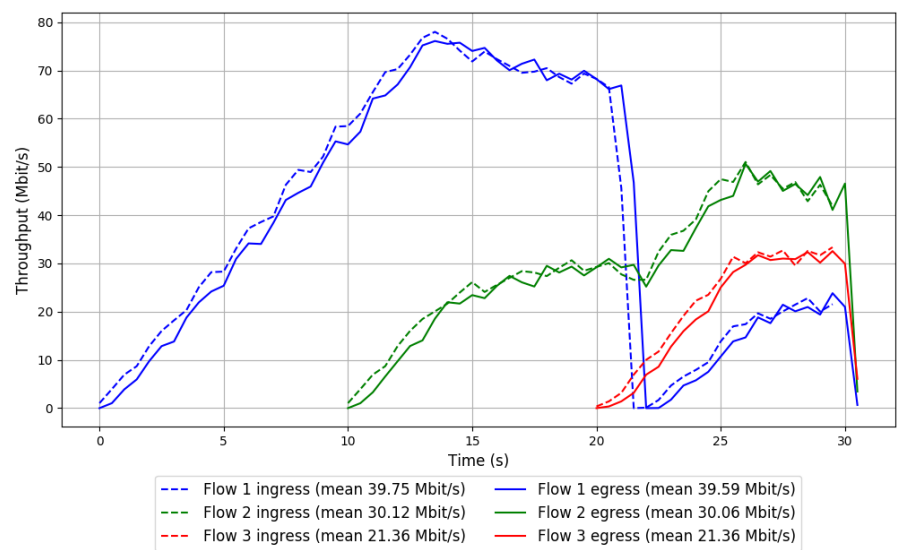


Run 2: Statistics of LEDBAT

Start at: 2019-07-17 23:28:36  
End at: 2019-07-17 23:29:06  
Local clock offset: -3.449 ms  
Remote clock offset: -4.967 ms

# Below is generated by plot.py at 2019-07-18 01:49:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 66.69 Mbit/s  
95th percentile per-packet one-way delay: 60.271 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 39.59 Mbit/s  
95th percentile per-packet one-way delay: 60.840 ms  
Loss rate: 0.31%  
-- Flow 2:  
Average throughput: 30.06 Mbit/s  
95th percentile per-packet one-way delay: 60.505 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 21.36 Mbit/s  
95th percentile per-packet one-way delay: 56.951 ms  
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

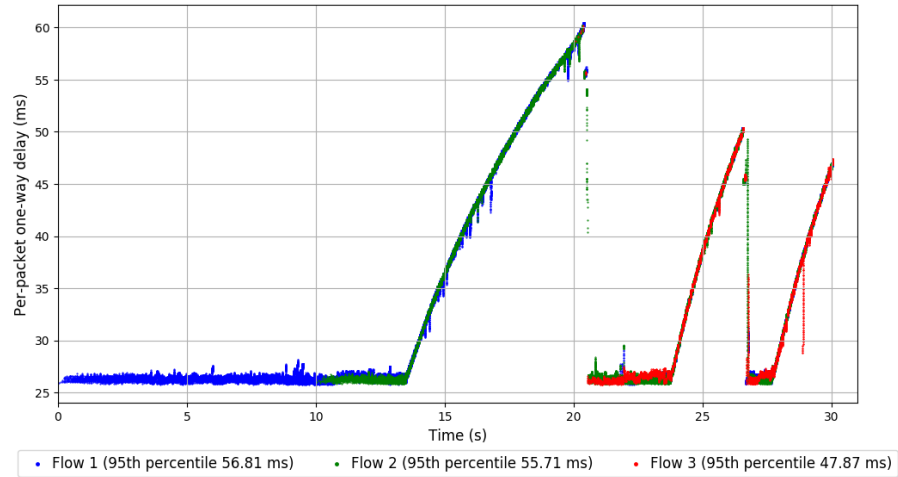
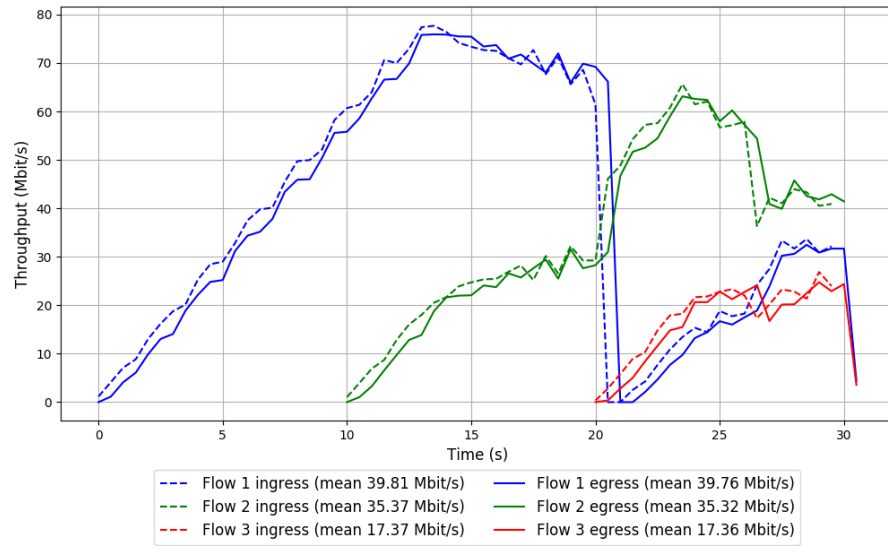


Run 3: Statistics of LEDBAT

Start at: 2019-07-18 00:00:33  
End at: 2019-07-18 00:01:03  
Local clock offset: -0.454 ms  
Remote clock offset: -4.022 ms

# Below is generated by plot.py at 2019-07-18 01:49:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.00 Mbit/s  
95th percentile per-packet one-way delay: 56.198 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 39.76 Mbit/s  
95th percentile per-packet one-way delay: 56.812 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 35.32 Mbit/s  
95th percentile per-packet one-way delay: 55.706 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 17.36 Mbit/s  
95th percentile per-packet one-way delay: 47.867 ms  
Loss rate: 0.16%

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

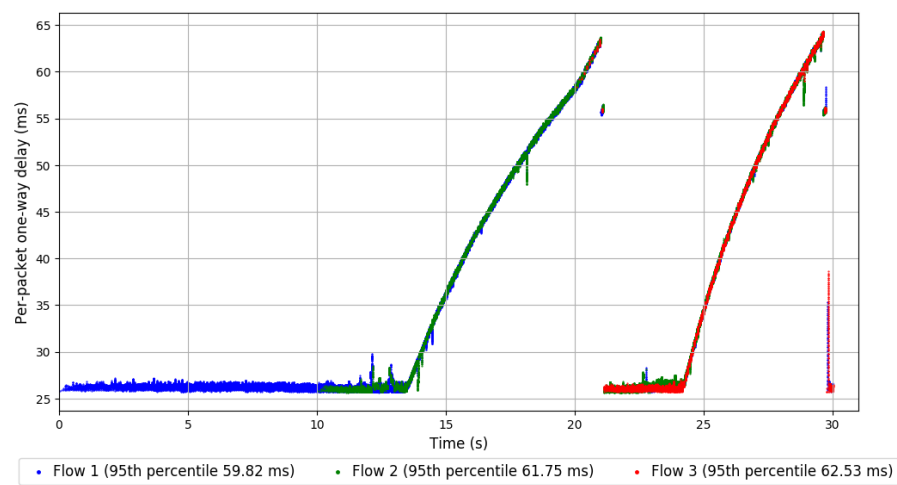
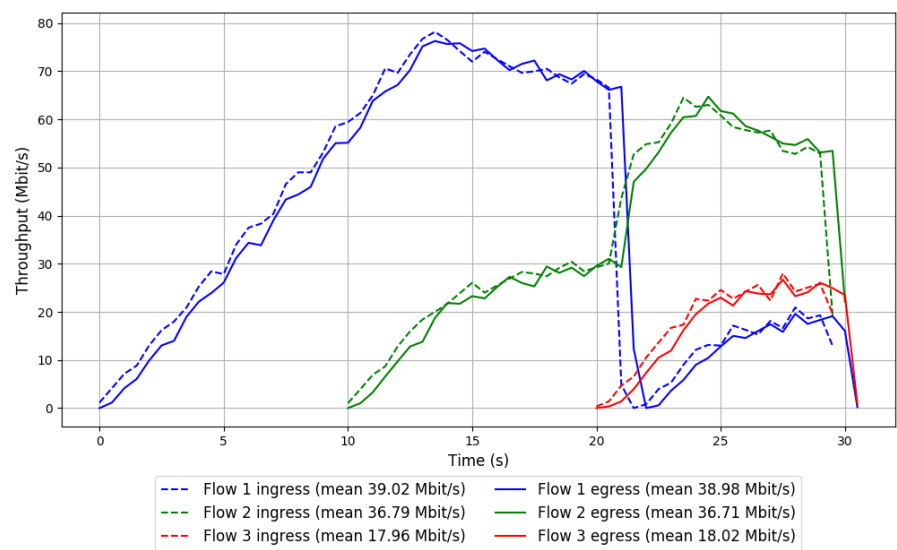


Run 4: Statistics of LEDBAT

Start at: 2019-07-18 00:33:50  
End at: 2019-07-18 00:34:20  
Local clock offset: -0.003 ms  
Remote clock offset: -2.846 ms

# Below is generated by plot.py at 2019-07-18 01:49:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.03 Mbit/s  
95th percentile per-packet one-way delay: 61.063 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 38.98 Mbit/s  
95th percentile per-packet one-way delay: 59.820 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 36.71 Mbit/s  
95th percentile per-packet one-way delay: 61.752 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 18.02 Mbit/s  
95th percentile per-packet one-way delay: 62.532 ms  
Loss rate: 0.01%

Run 4: Report of LEDBAT — Data Link

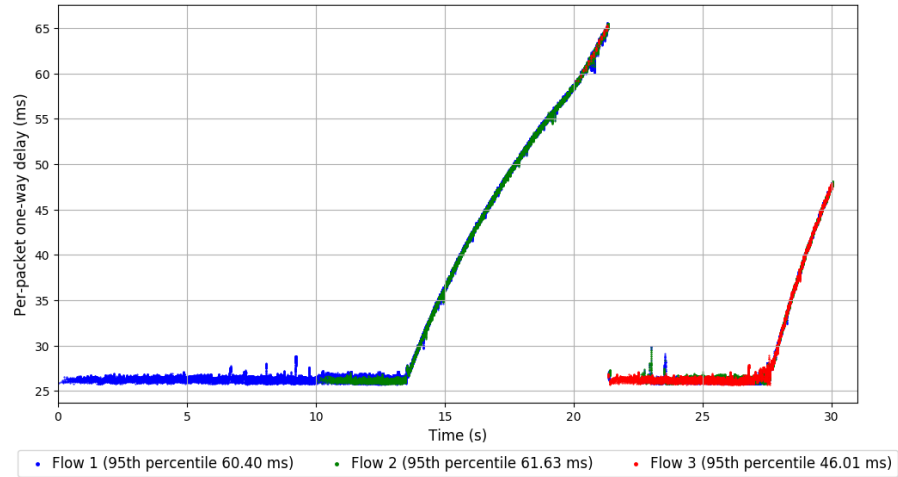
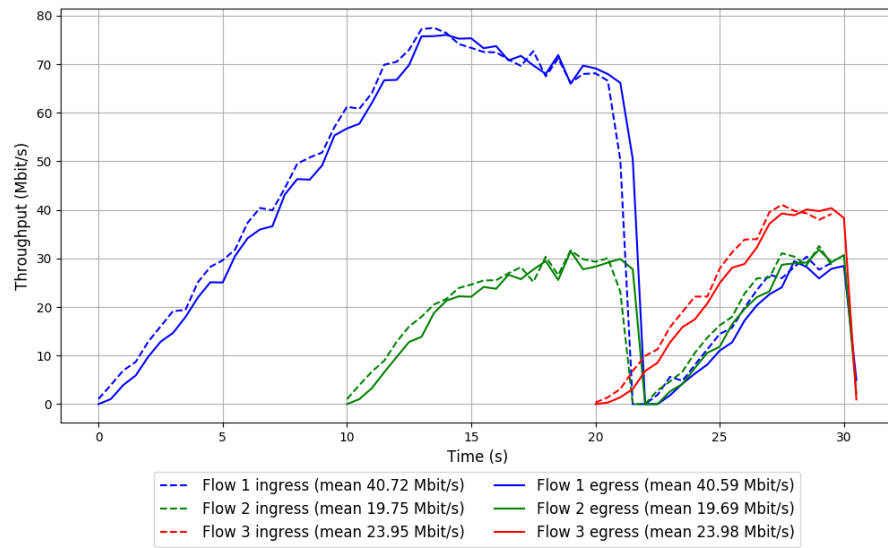


Run 5: Statistics of LEDBAT

Start at: 2019-07-18 01:07:13  
End at: 2019-07-18 01:07:43  
Local clock offset: 0.164 ms  
Remote clock offset: -2.748 ms

# Below is generated by plot.py at 2019-07-18 01:49:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 61.63 Mbit/s  
95th percentile per-packet one-way delay: 60.368 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 40.59 Mbit/s  
95th percentile per-packet one-way delay: 60.399 ms  
Loss rate: 0.25%  
-- Flow 2:  
Average throughput: 19.69 Mbit/s  
95th percentile per-packet one-way delay: 61.628 ms  
Loss rate: 0.18%  
-- Flow 3:  
Average throughput: 23.98 Mbit/s  
95th percentile per-packet one-way delay: 46.007 ms  
Loss rate: 0.00%

# Run 5: Report of LEDBAT — Data Link

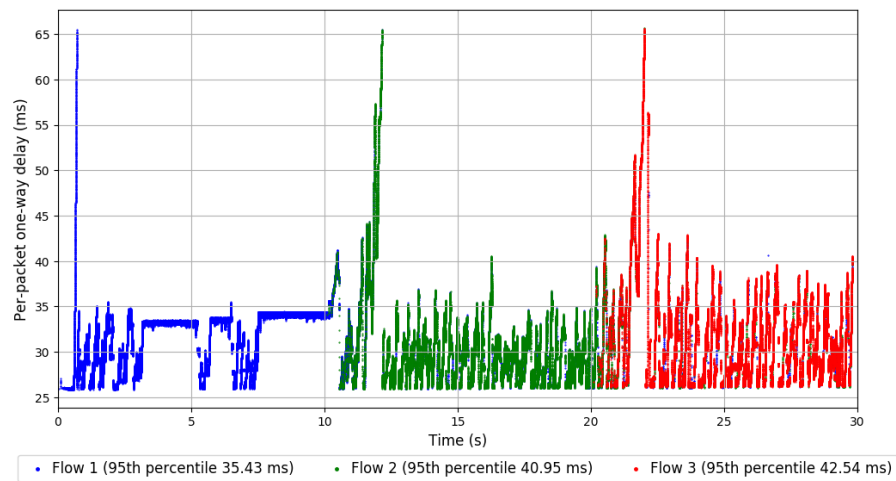
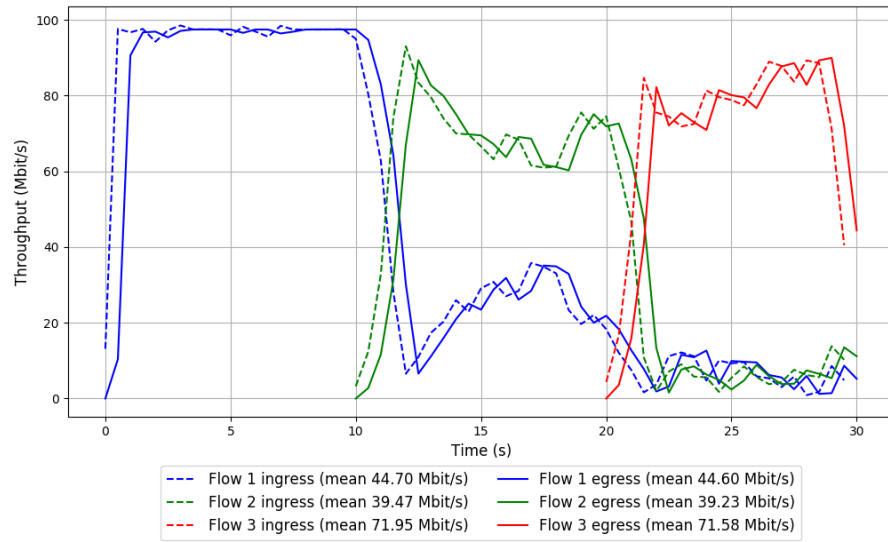


Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-07-17 23:24:40  
End at: 2019-07-17 23:25:10  
Local clock offset: -5.156 ms  
Remote clock offset: -5.113 ms

# Below is generated by plot.py at 2019-07-18 01:50:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.88 Mbit/s  
95th percentile per-packet one-way delay: 38.496 ms  
Loss rate: 0.34%  
-- Flow 1:  
Average throughput: 44.60 Mbit/s  
95th percentile per-packet one-way delay: 35.427 ms  
Loss rate: 0.17%  
-- Flow 2:  
Average throughput: 39.23 Mbit/s  
95th percentile per-packet one-way delay: 40.950 ms  
Loss rate: 0.58%  
-- Flow 3:  
Average throughput: 71.58 Mbit/s  
95th percentile per-packet one-way delay: 42.542 ms  
Loss rate: 0.38%

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

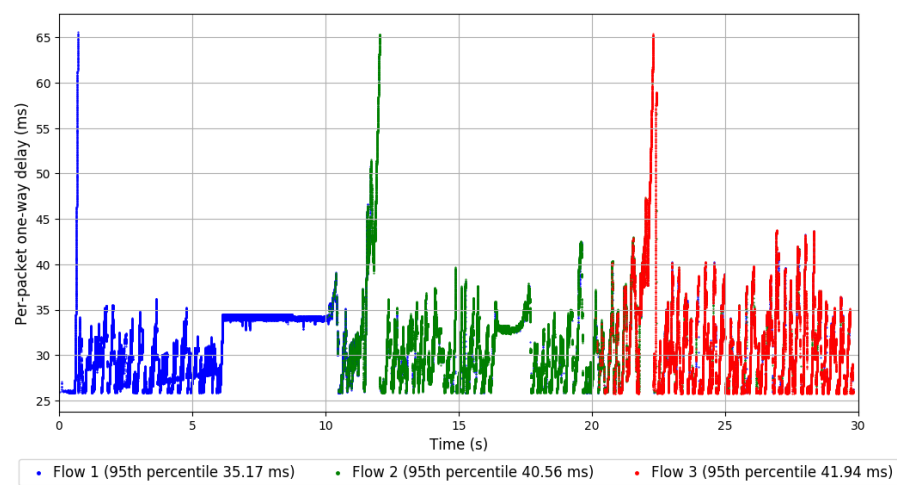
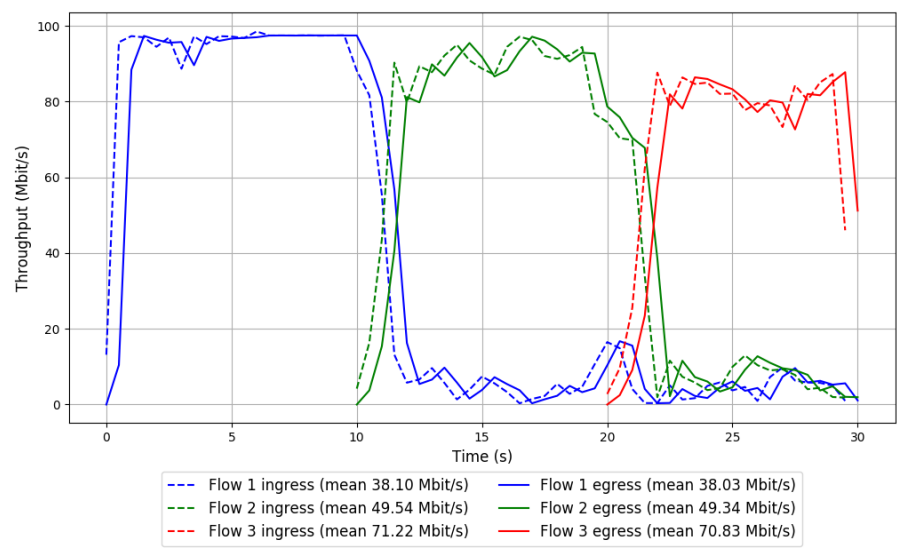


Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-07-17 23:56:18  
End at: 2019-07-17 23:56:48  
Local clock offset: -0.696 ms  
Remote clock offset: -4.193 ms

# Below is generated by plot.py at 2019-07-18 01:50:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.74 Mbit/s  
95th percentile per-packet one-way delay: 38.875 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 38.03 Mbit/s  
95th percentile per-packet one-way delay: 35.174 ms  
Loss rate: 0.19%  
-- Flow 2:  
Average throughput: 49.34 Mbit/s  
95th percentile per-packet one-way delay: 40.558 ms  
Loss rate: 0.45%  
-- Flow 3:  
Average throughput: 70.83 Mbit/s  
95th percentile per-packet one-way delay: 41.940 ms  
Loss rate: 0.63%

Run 2: Report of Muses\_DecisionTree — Data Link



Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-07-18 00:29:08

End at: 2019-07-18 00:29:38

Local clock offset: -0.109 ms

Remote clock offset: -3.08 ms

# Below is generated by plot.py at 2019-07-18 01:50:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.56 Mbit/s

95th percentile per-packet one-way delay: 35.899 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 48.24 Mbit/s

95th percentile per-packet one-way delay: 35.504 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 39.99 Mbit/s

95th percentile per-packet one-way delay: 36.106 ms

Loss rate: 0.03%

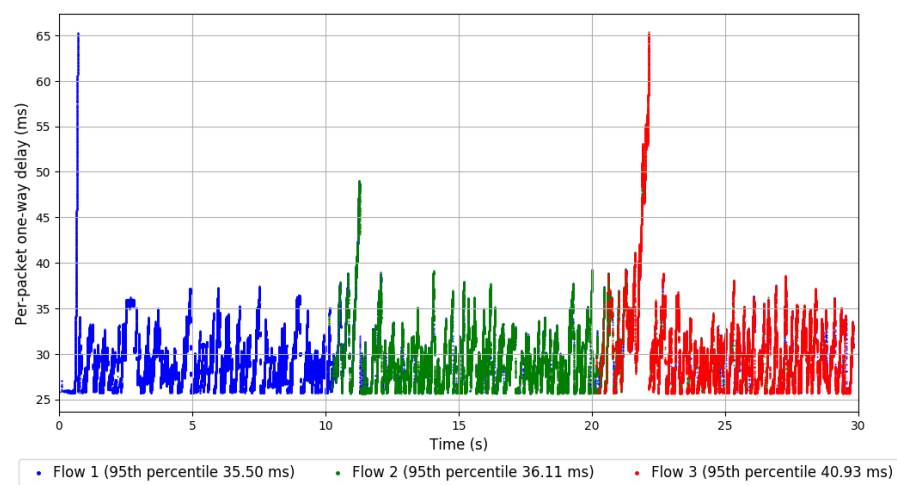
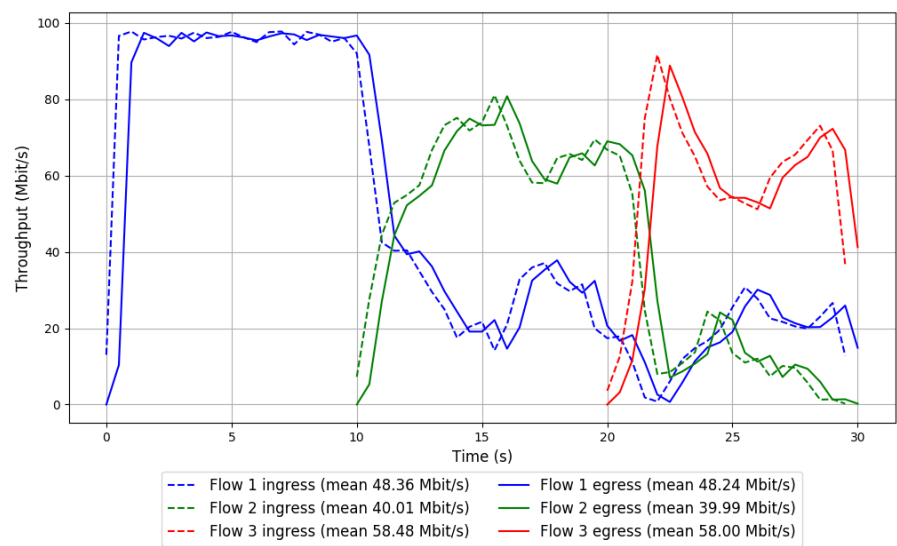
-- Flow 3:

Average throughput: 58.00 Mbit/s

95th percentile per-packet one-way delay: 40.929 ms

Loss rate: 0.76%

Run 3: Report of Muses\_DecisionTree — Data Link

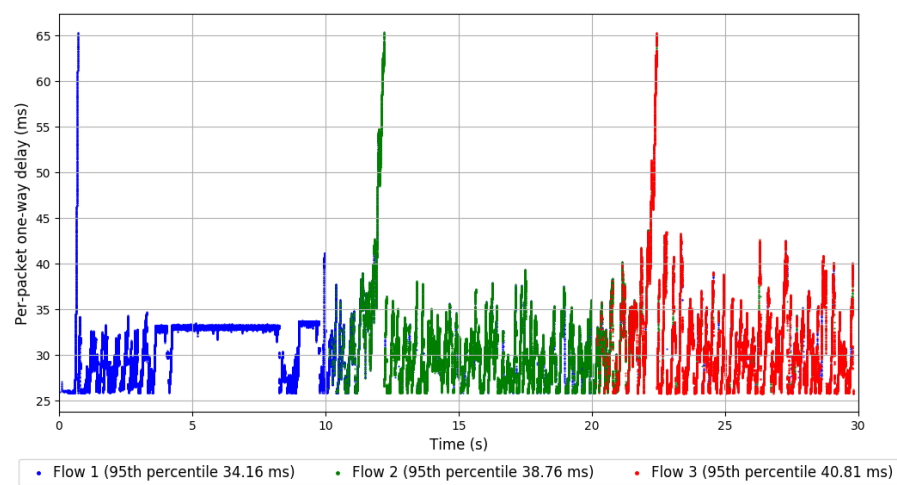
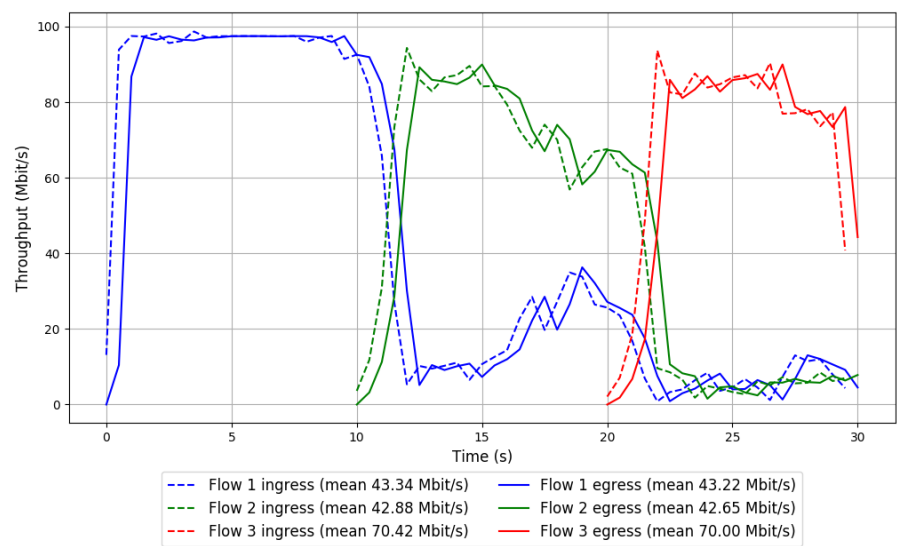


Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-07-18 01:03:01  
End at: 2019-07-18 01:03:31  
Local clock offset: 0.179 ms  
Remote clock offset: -2.662 ms

# Below is generated by plot.py at 2019-07-18 01:50:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.19 Mbit/s  
95th percentile per-packet one-way delay: 37.915 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 43.22 Mbit/s  
95th percentile per-packet one-way delay: 34.165 ms  
Loss rate: 0.24%  
-- Flow 2:  
Average throughput: 42.65 Mbit/s  
95th percentile per-packet one-way delay: 38.764 ms  
Loss rate: 0.58%  
-- Flow 3:  
Average throughput: 70.00 Mbit/s  
95th percentile per-packet one-way delay: 40.812 ms  
Loss rate: 0.60%

Run 4: Report of Muses\_DecisionTree — Data Link

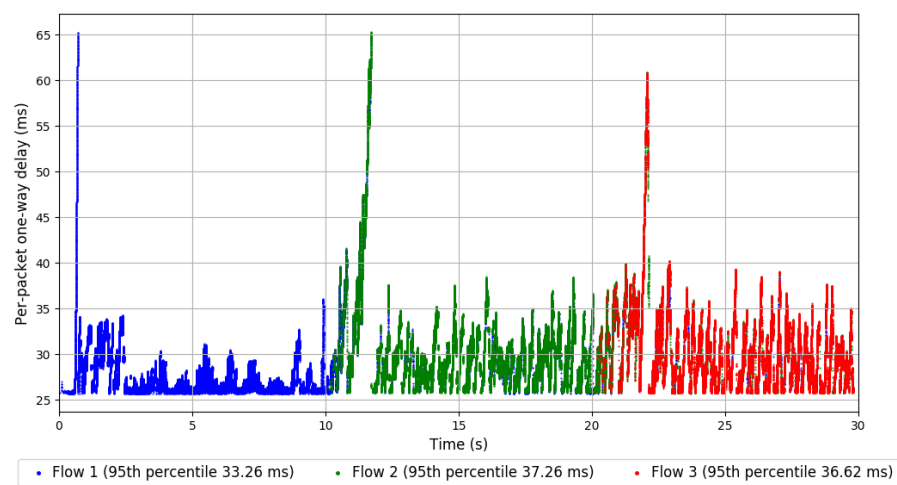
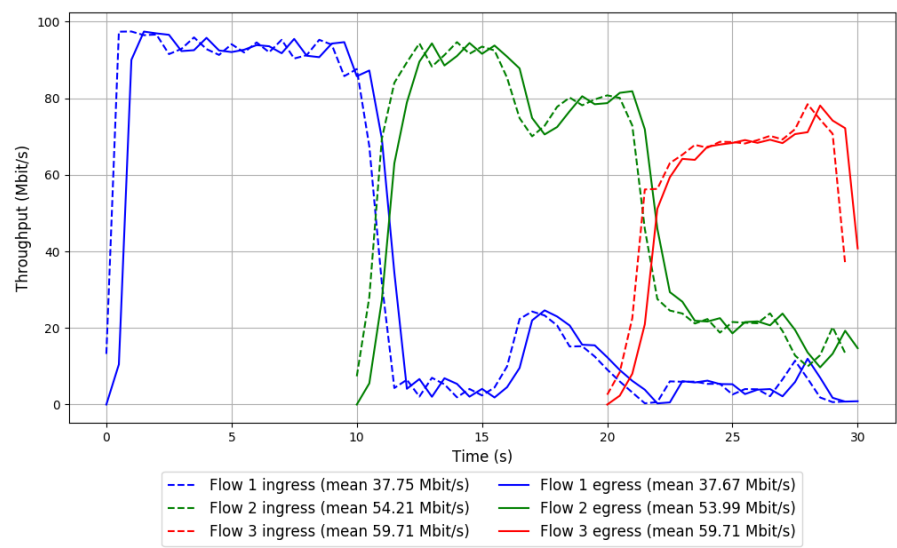


Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-07-18 01:38:33  
End at: 2019-07-18 01:39:03  
Local clock offset: 3.139 ms  
Remote clock offset: -2.825 ms

# Below is generated by plot.py at 2019-07-18 01:50:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.80 Mbit/s  
95th percentile per-packet one-way delay: 35.924 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 37.67 Mbit/s  
95th percentile per-packet one-way delay: 33.261 ms  
Loss rate: 0.23%  
-- Flow 2:  
Average throughput: 53.99 Mbit/s  
95th percentile per-packet one-way delay: 37.264 ms  
Loss rate: 0.41%  
-- Flow 3:  
Average throughput: 59.71 Mbit/s  
95th percentile per-packet one-way delay: 36.618 ms  
Loss rate: 0.00%

Run 5: Report of Muses\_DecisionTree — Data Link

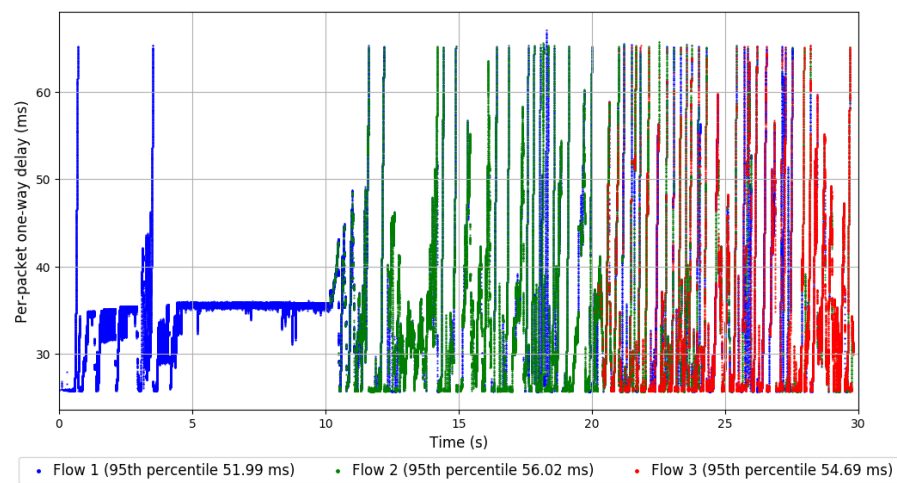
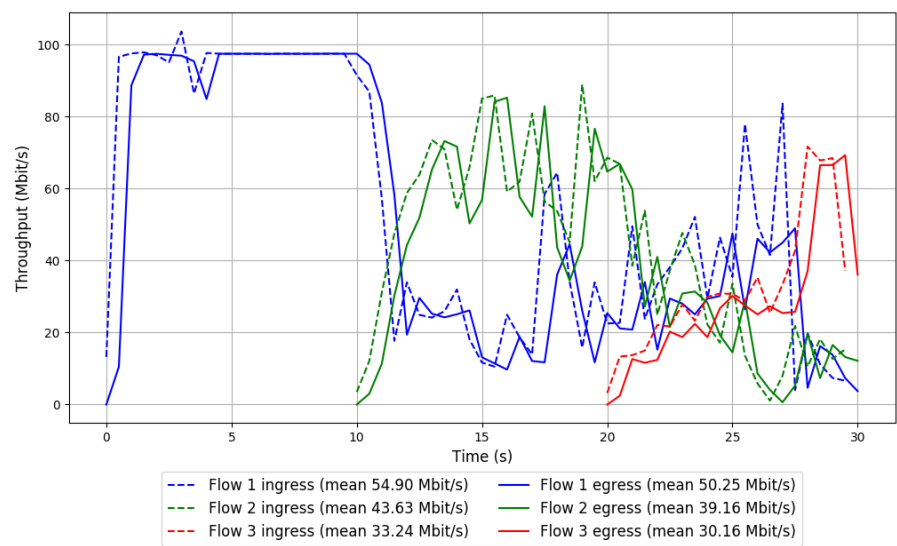


Run 1: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-07-17 23:06:52  
End at: 2019-07-17 23:07:22  
Local clock offset: -3.352 ms  
Remote clock offset: -5.141 ms

# Below is generated by plot.py at 2019-07-18 01:50:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.68 Mbit/s  
95th percentile per-packet one-way delay: 53.952 ms  
Loss rate: 9.10%  
-- Flow 1:  
Average throughput: 50.25 Mbit/s  
95th percentile per-packet one-way delay: 51.987 ms  
Loss rate: 8.45%  
-- Flow 2:  
Average throughput: 39.16 Mbit/s  
95th percentile per-packet one-way delay: 56.023 ms  
Loss rate: 10.26%  
-- Flow 3:  
Average throughput: 30.16 Mbit/s  
95th percentile per-packet one-way delay: 54.689 ms  
Loss rate: 9.32%

Run 1: Report of Muses\_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-07-17 23:40:34

End at: 2019-07-17 23:41:04

Local clock offset: -1.031 ms

Remote clock offset: -4.71 ms

# Below is generated by plot.py at 2019-07-18 01:50:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.42 Mbit/s

95th percentile per-packet one-way delay: 55.553 ms

Loss rate: 5.60%

-- Flow 1:

Average throughput: 58.75 Mbit/s

95th percentile per-packet one-way delay: 53.477 ms

Loss rate: 4.44%

-- Flow 2:

Average throughput: 39.31 Mbit/s

95th percentile per-packet one-way delay: 58.796 ms

Loss rate: 8.04%

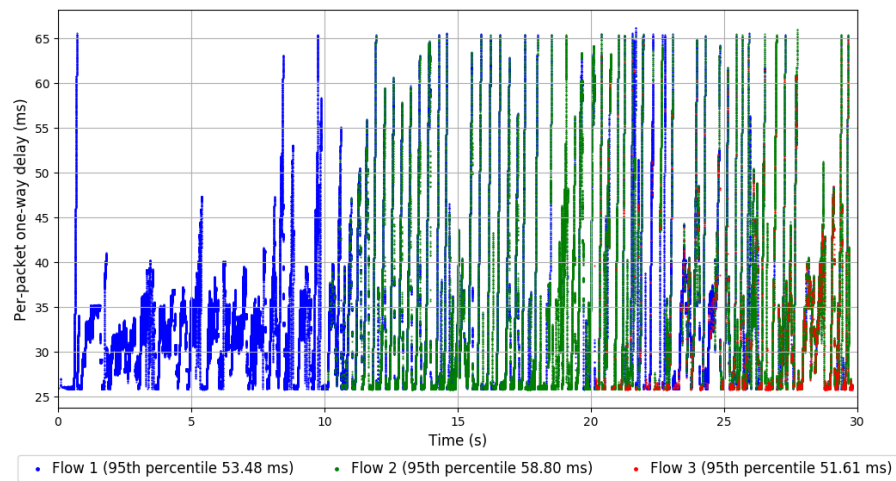
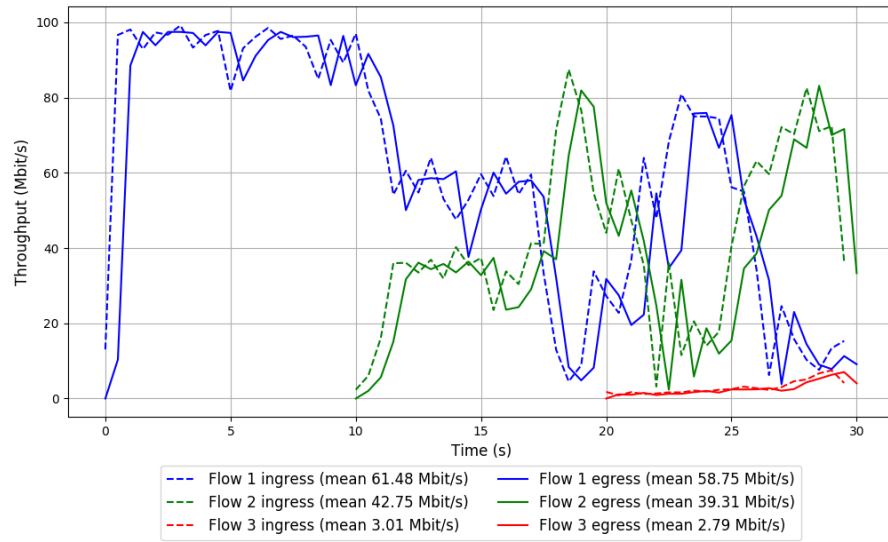
-- Flow 3:

Average throughput: 2.79 Mbit/s

95th percentile per-packet one-way delay: 51.611 ms

Loss rate: 7.18%

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

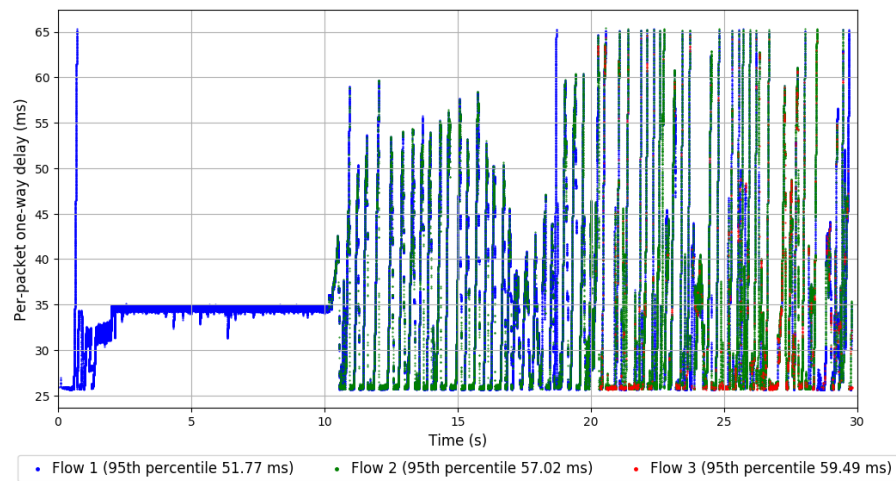
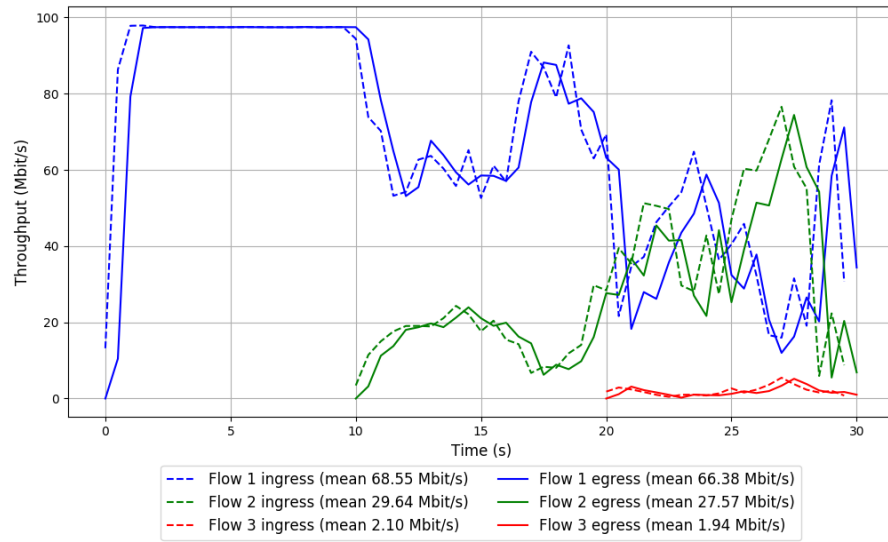


Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-07-18 00:12:46  
End at: 2019-07-18 00:13:16  
Local clock offset: -0.294 ms  
Remote clock offset: -3.645 ms

# Below is generated by plot.py at 2019-07-18 01:50:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.17 Mbit/s  
95th percentile per-packet one-way delay: 53.537 ms  
Loss rate: 4.04%  
-- Flow 1:  
Average throughput: 66.38 Mbit/s  
95th percentile per-packet one-way delay: 51.769 ms  
Loss rate: 3.16%  
-- Flow 2:  
Average throughput: 27.57 Mbit/s  
95th percentile per-packet one-way delay: 57.021 ms  
Loss rate: 7.00%  
-- Flow 3:  
Average throughput: 1.94 Mbit/s  
95th percentile per-packet one-way delay: 59.488 ms  
Loss rate: 7.72%

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

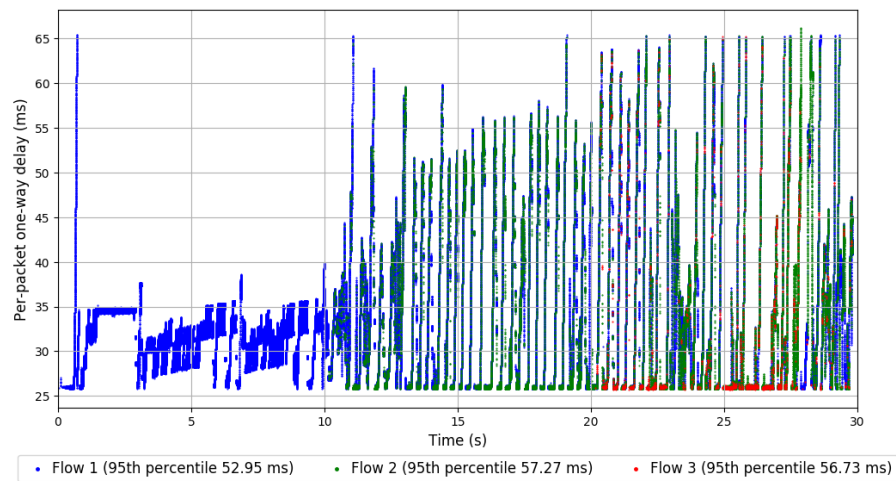
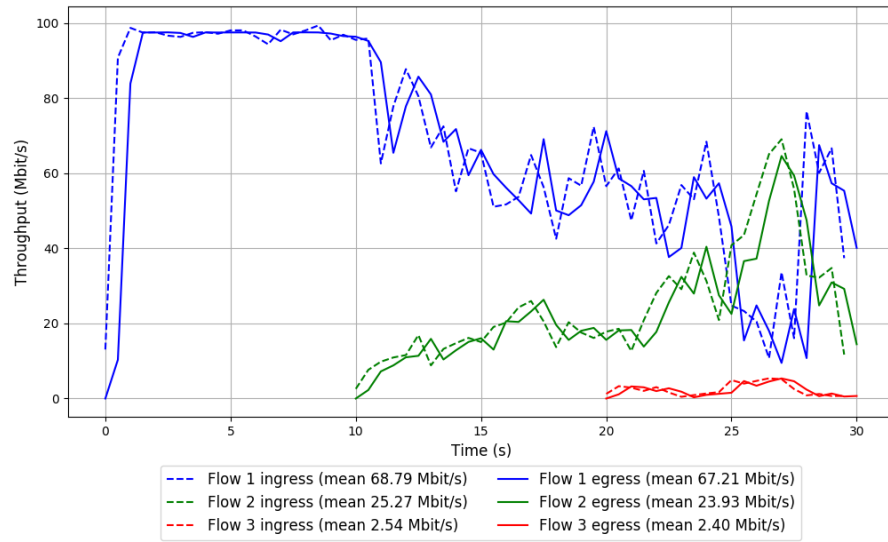


Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-07-18 00:46:23  
End at: 2019-07-18 00:46:53  
Local clock offset: 0.123 ms  
Remote clock offset: -2.529 ms

# Below is generated by plot.py at 2019-07-18 01:51:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.82 Mbit/s  
95th percentile per-packet one-way delay: 53.918 ms  
Loss rate: 2.85%  
-- Flow 1:  
Average throughput: 67.21 Mbit/s  
95th percentile per-packet one-way delay: 52.945 ms  
Loss rate: 2.24%  
-- Flow 2:  
Average throughput: 23.93 Mbit/s  
95th percentile per-packet one-way delay: 57.266 ms  
Loss rate: 5.25%  
-- Flow 3:  
Average throughput: 2.40 Mbit/s  
95th percentile per-packet one-way delay: 56.728 ms  
Loss rate: 5.14%

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

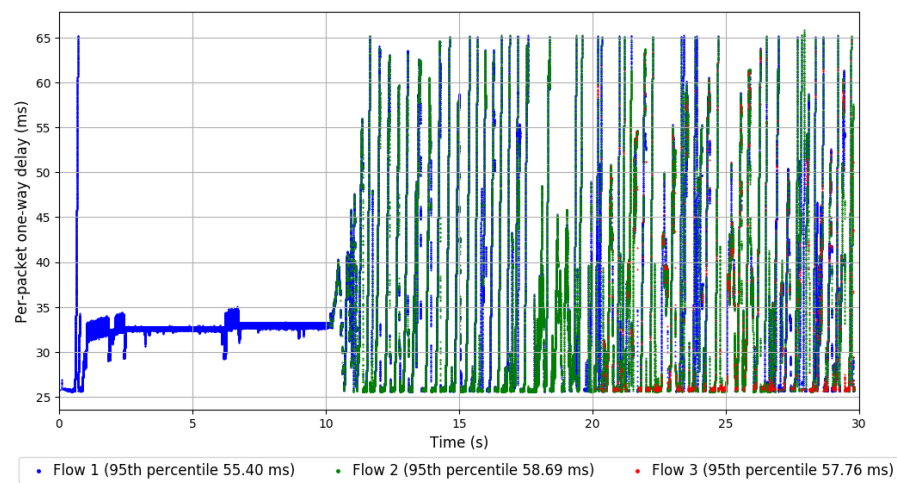
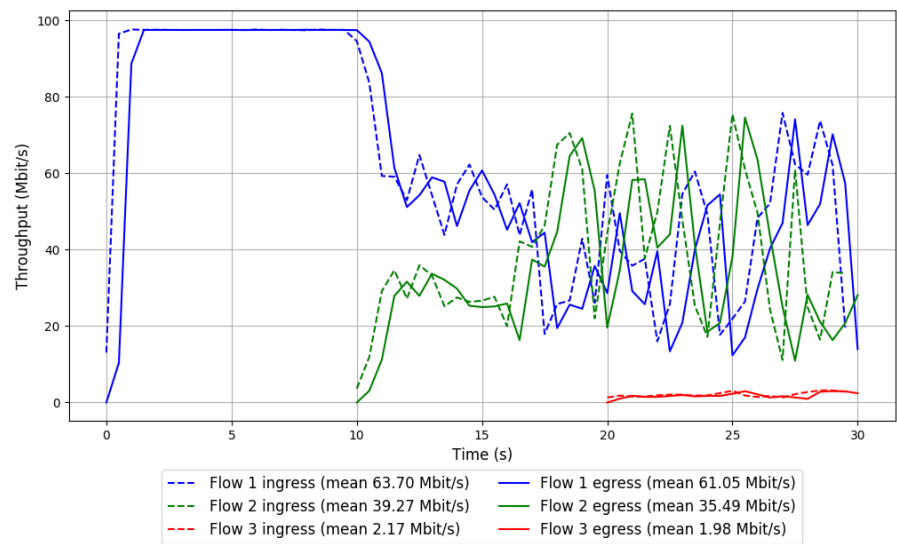


Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-07-18 01:21:01  
End at: 2019-07-18 01:21:31  
Local clock offset: 0.3 ms  
Remote clock offset: -2.991 ms

# Below is generated by plot.py at 2019-07-18 01:51:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.20 Mbit/s  
95th percentile per-packet one-way delay: 56.918 ms  
Loss rate: 5.78%  
-- Flow 1:  
Average throughput: 61.05 Mbit/s  
95th percentile per-packet one-way delay: 55.402 ms  
Loss rate: 4.15%  
-- Flow 2:  
Average throughput: 35.49 Mbit/s  
95th percentile per-packet one-way delay: 58.686 ms  
Loss rate: 9.66%  
-- Flow 3:  
Average throughput: 1.98 Mbit/s  
95th percentile per-packet one-way delay: 57.755 ms  
Loss rate: 8.73%

Run 5: Report of Muses\_DecisionTreeH0 — Data Link

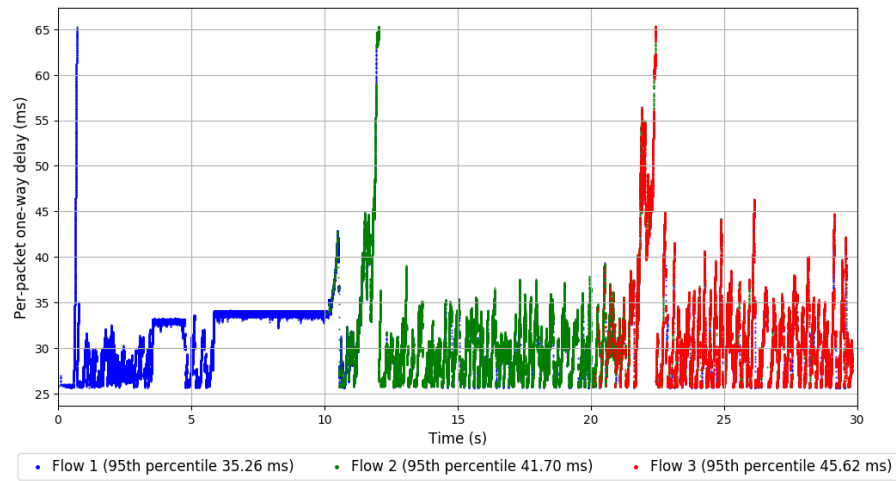
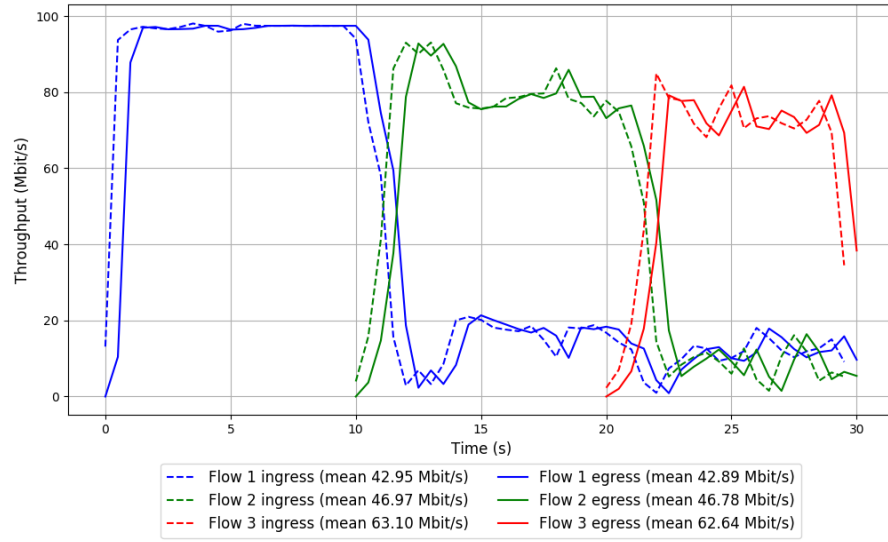


Run 1: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-07-17 23:18:41  
End at: 2019-07-17 23:19:11  
Local clock offset: -4.638 ms  
Remote clock offset: -5.176 ms

# Below is generated by plot.py at 2019-07-18 01:51:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.30 Mbit/s  
95th percentile per-packet one-way delay: 39.815 ms  
Loss rate: 0.36%  
-- Flow 1:  
Average throughput: 42.89 Mbit/s  
95th percentile per-packet one-way delay: 35.264 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 46.78 Mbit/s  
95th percentile per-packet one-way delay: 41.705 ms  
Loss rate: 0.43%  
-- Flow 3:  
Average throughput: 62.64 Mbit/s  
95th percentile per-packet one-way delay: 45.622 ms  
Loss rate: 0.71%

# Run 1: Report of Muses\_DecisionTreeR0 — Data Link

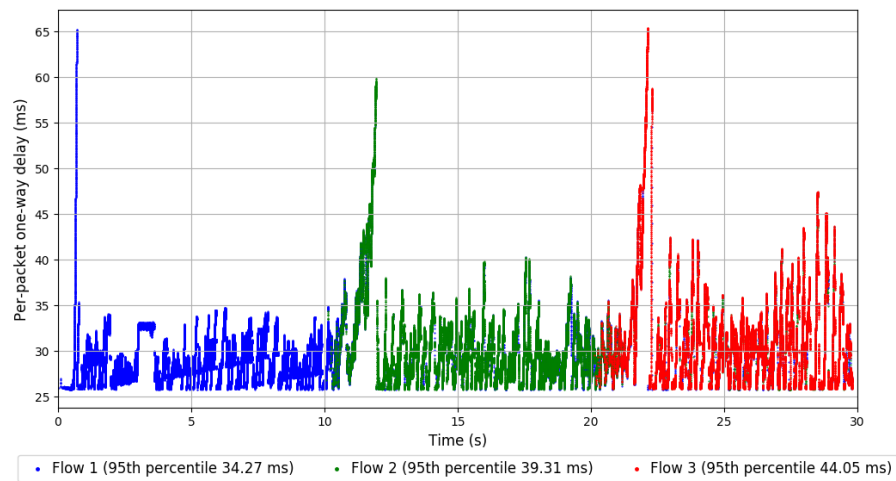
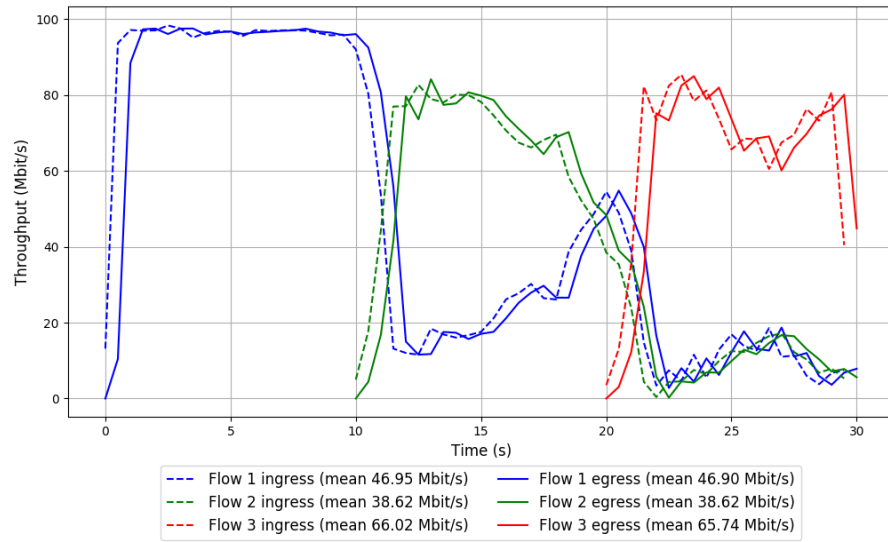


Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-07-17 23:51:03  
End at: 2019-07-17 23:51:33  
Local clock offset: -0.779 ms  
Remote clock offset: -4.397 ms

# Below is generated by plot.py at 2019-07-18 01:51:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.86 Mbit/s  
95th percentile per-packet one-way delay: 38.000 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 46.90 Mbit/s  
95th percentile per-packet one-way delay: 34.265 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 38.62 Mbit/s  
95th percentile per-packet one-way delay: 39.307 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 65.74 Mbit/s  
95th percentile per-packet one-way delay: 44.047 ms  
Loss rate: 0.46%

## Run 2: Report of Muses\_DecisionTreeR0 — Data Link

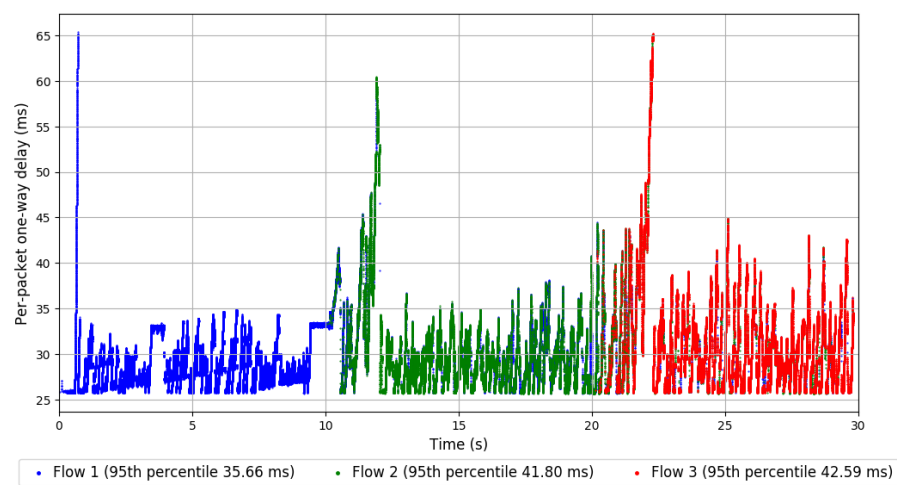
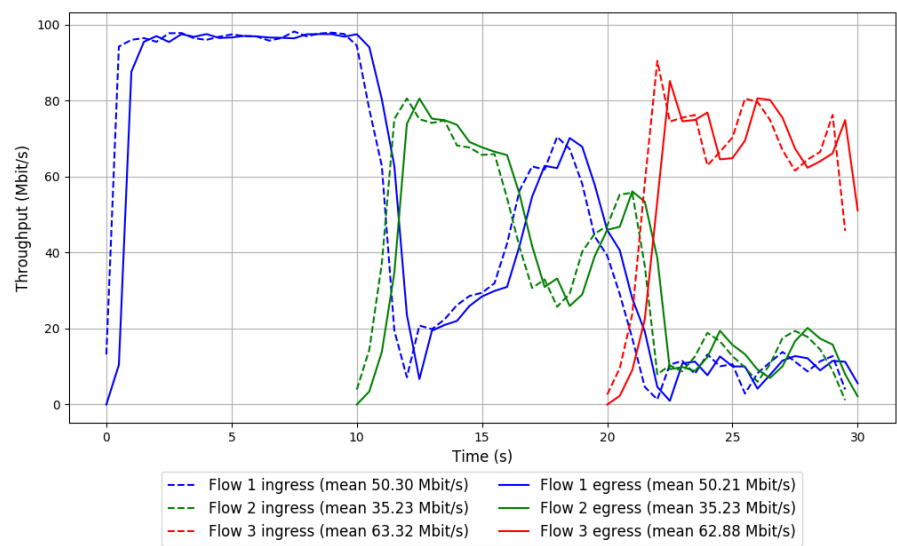


Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-07-18 00:23:38  
End at: 2019-07-18 00:24:08  
Local clock offset: -0.258 ms  
Remote clock offset: -3.223 ms

# Below is generated by plot.py at 2019-07-18 01:51:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.99 Mbit/s  
95th percentile per-packet one-way delay: 39.005 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 50.21 Mbit/s  
95th percentile per-packet one-way delay: 35.665 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 35.23 Mbit/s  
95th percentile per-packet one-way delay: 41.797 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 62.88 Mbit/s  
95th percentile per-packet one-way delay: 42.593 ms  
Loss rate: 0.61%

Run 3: Report of Muses\_DecisionTreeR0 — Data Link

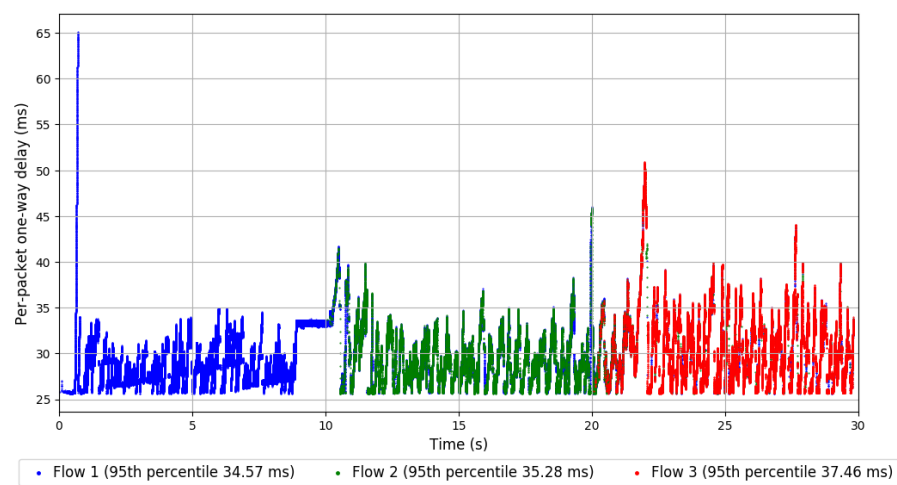
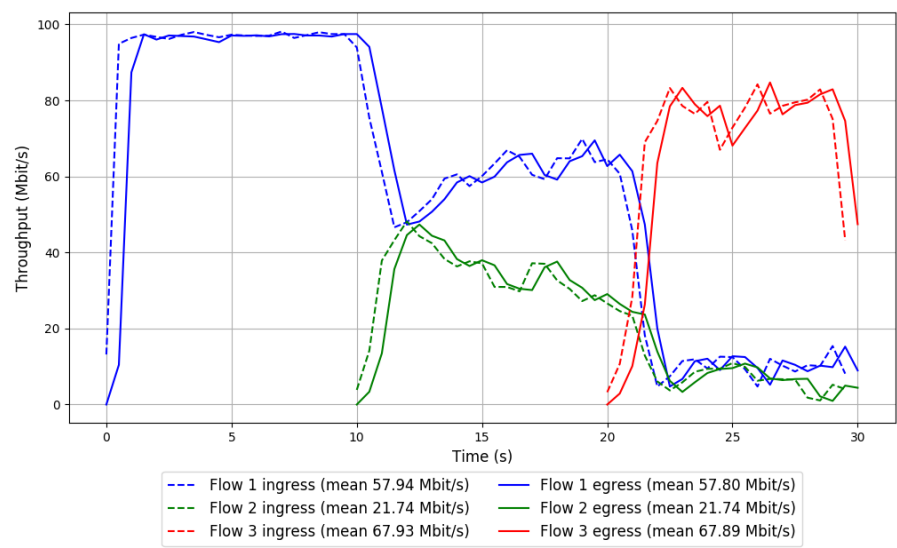


Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-07-18 00:56:54  
End at: 2019-07-18 00:57:24  
Local clock offset: 0.16 ms  
Remote clock offset: -2.684 ms

# Below is generated by plot.py at 2019-07-18 01:51:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.39 Mbit/s  
95th percentile per-packet one-way delay: 35.608 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 57.80 Mbit/s  
95th percentile per-packet one-way delay: 34.574 ms  
Loss rate: 0.23%  
-- Flow 2:  
Average throughput: 21.74 Mbit/s  
95th percentile per-packet one-way delay: 35.277 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 67.89 Mbit/s  
95th percentile per-packet one-way delay: 37.463 ms  
Loss rate: 0.00%

Run 4: Report of Muses\_DecisionTreeR0 — Data Link

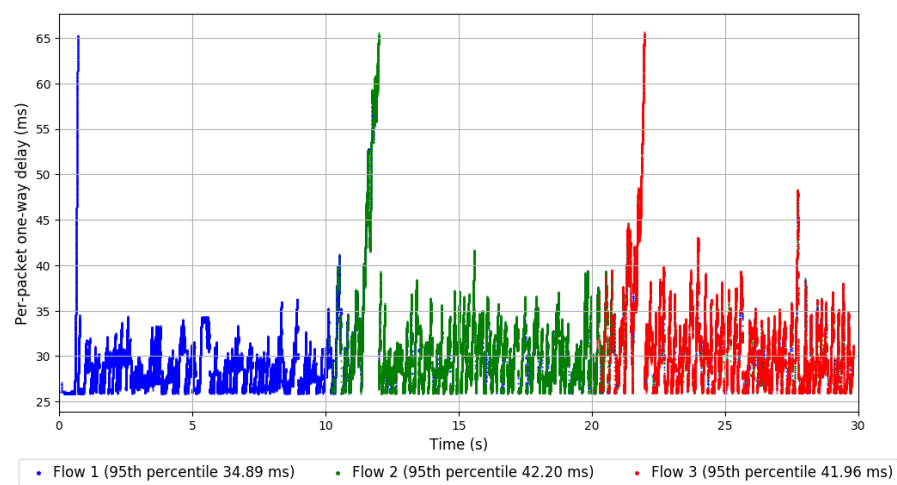
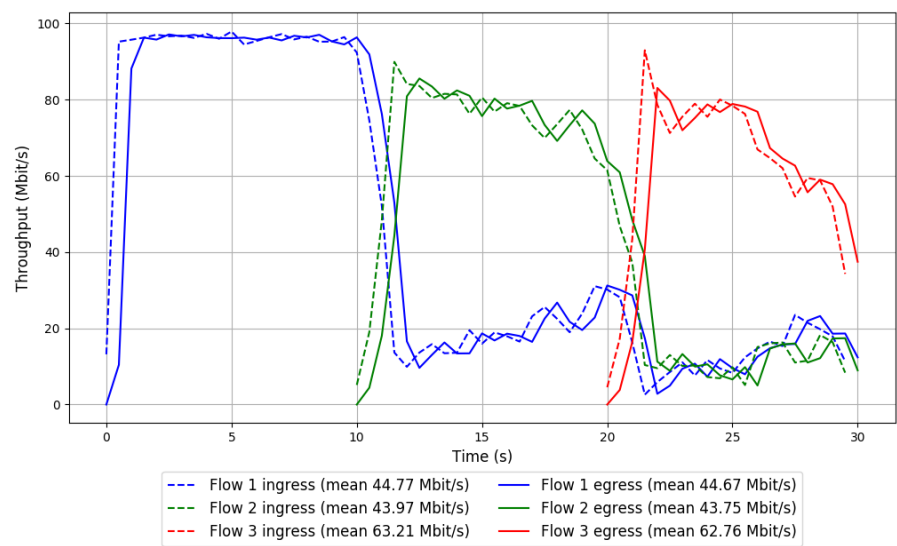


Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-07-18 01:32:17  
End at: 2019-07-18 01:32:47  
Local clock offset: 2.251 ms  
Remote clock offset: -2.827 ms

# Below is generated by plot.py at 2019-07-18 01:51:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.10 Mbit/s  
95th percentile per-packet one-way delay: 37.916 ms  
Loss rate: 0.40%  
-- Flow 1:  
Average throughput: 44.67 Mbit/s  
95th percentile per-packet one-way delay: 34.887 ms  
Loss rate: 0.21%  
-- Flow 2:  
Average throughput: 43.75 Mbit/s  
95th percentile per-packet one-way delay: 42.196 ms  
Loss rate: 0.50%  
-- Flow 3:  
Average throughput: 62.76 Mbit/s  
95th percentile per-packet one-way delay: 41.956 ms  
Loss rate: 0.66%

Run 5: Report of Muses\_DecisionTreeR0 — Data Link

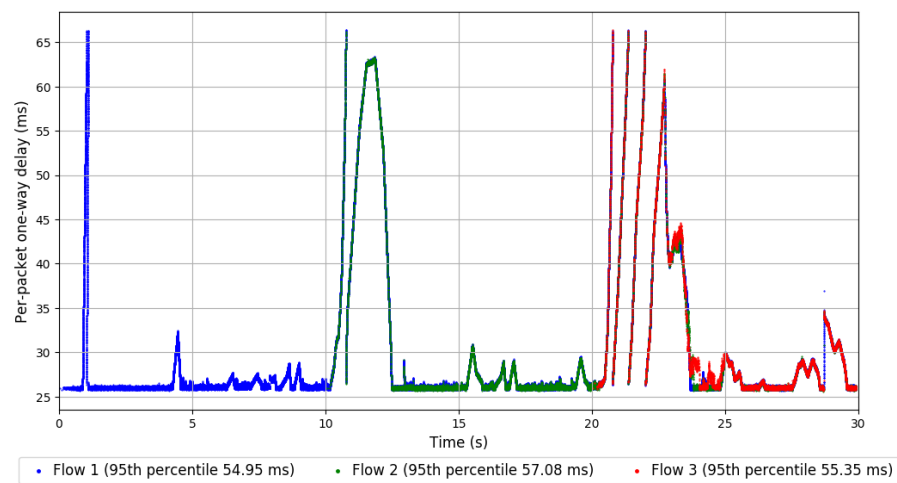
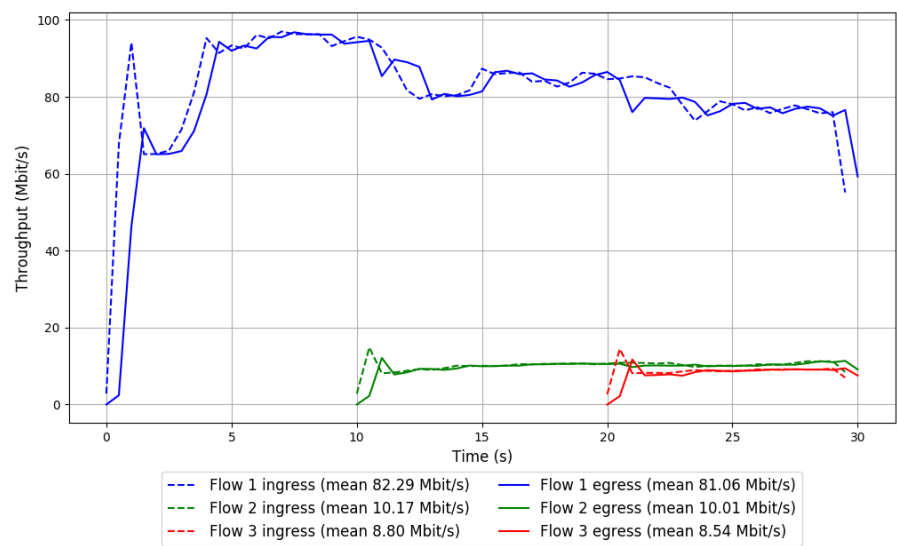


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-07-17 23:02:04
End at: 2019-07-17 23:02:34
Local clock offset: -2.726 ms
Remote clock offset: -5.165 ms

# Below is generated by plot.py at 2019-07-18 01:51:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.53 Mbit/s
95th percentile per-packet one-way delay: 55.224 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 81.06 Mbit/s
95th percentile per-packet one-way delay: 54.955 ms
Loss rate: 1.49%
-- Flow 2:
Average throughput: 10.01 Mbit/s
95th percentile per-packet one-way delay: 57.082 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 8.54 Mbit/s
95th percentile per-packet one-way delay: 55.348 ms
Loss rate: 2.95%
```

Run 1: Report of PCC-Allegro — Data Link

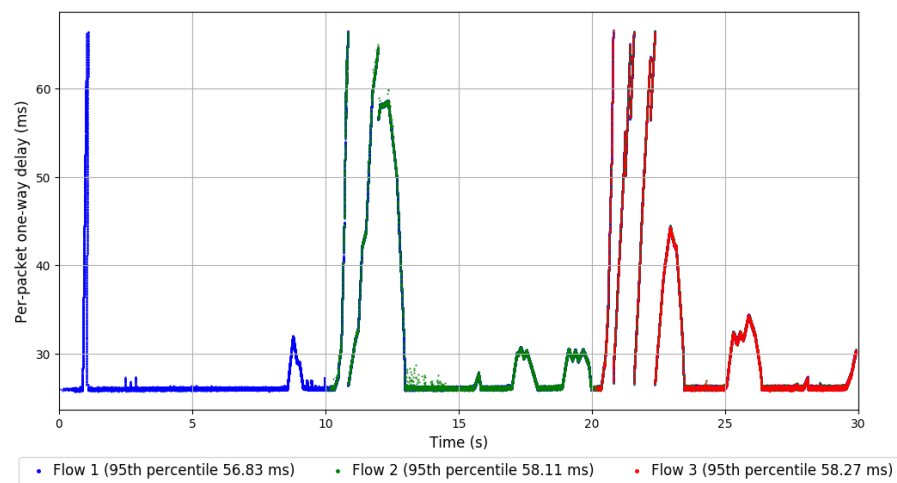
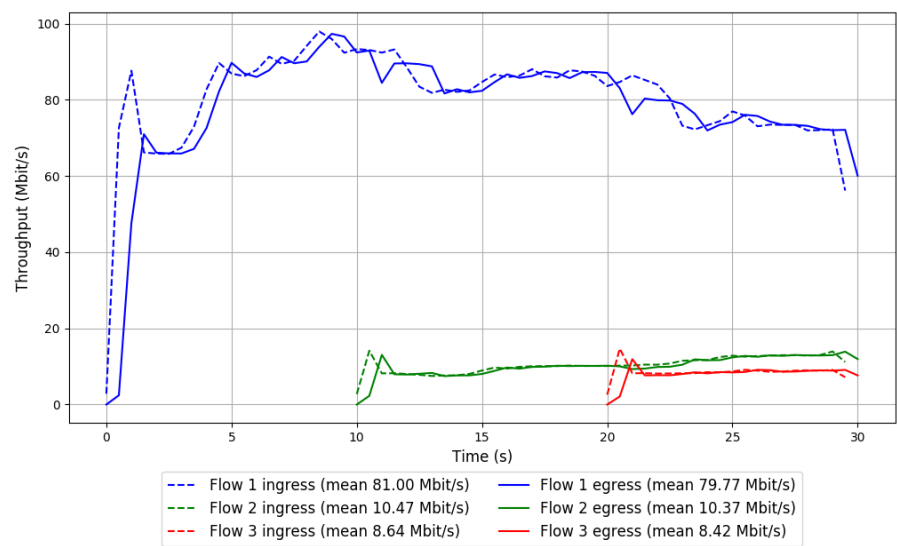


Run 2: Statistics of PCC-Allegro

Start at: 2019-07-17 23:36:32  
End at: 2019-07-17 23:37:02  
Local clock offset: -1.455 ms  
Remote clock offset: -4.831 ms

# Below is generated by plot.py at 2019-07-18 01:52:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.45 Mbit/s  
95th percentile per-packet one-way delay: 57.037 ms  
Loss rate: 1.49%  
-- Flow 1:  
Average throughput: 79.77 Mbit/s  
95th percentile per-packet one-way delay: 56.825 ms  
Loss rate: 1.50%  
-- Flow 2:  
Average throughput: 10.37 Mbit/s  
95th percentile per-packet one-way delay: 58.109 ms  
Loss rate: 0.97%  
-- Flow 3:  
Average throughput: 8.42 Mbit/s  
95th percentile per-packet one-way delay: 58.268 ms  
Loss rate: 2.50%

Run 2: Report of PCC-Allegro — Data Link

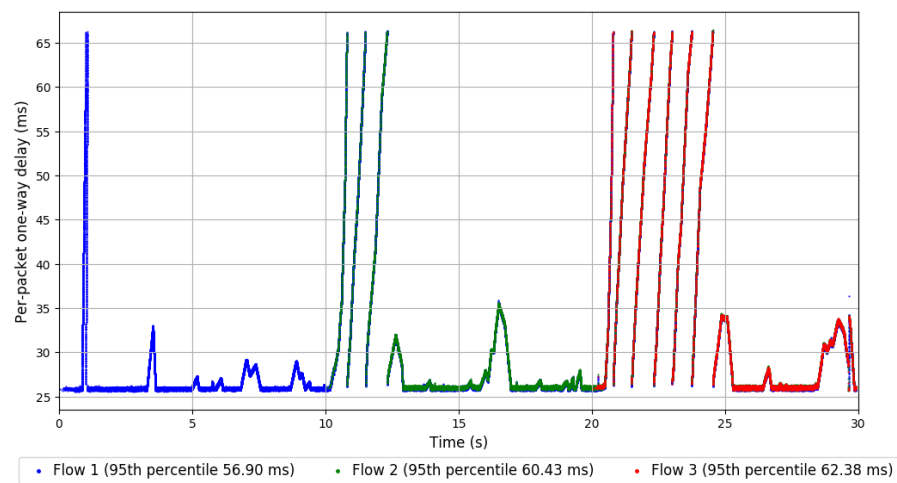
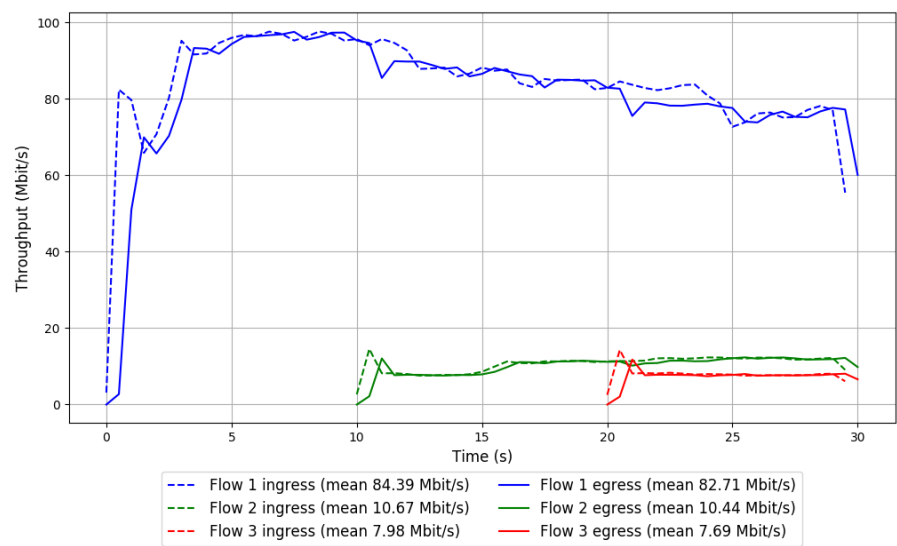


Run 3: Statistics of PCC-Allegro

Start at: 2019-07-18 00:08:56  
End at: 2019-07-18 00:09:26  
Local clock offset: -0.34 ms  
Remote clock offset: -3.805 ms

# Below is generated by plot.py at 2019-07-18 01:52:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.19 Mbit/s  
95th percentile per-packet one-way delay: 57.654 ms  
Loss rate: 2.05%  
-- Flow 1:  
Average throughput: 82.71 Mbit/s  
95th percentile per-packet one-way delay: 56.896 ms  
Loss rate: 2.00%  
-- Flow 2:  
Average throughput: 10.44 Mbit/s  
95th percentile per-packet one-way delay: 60.434 ms  
Loss rate: 2.18%  
-- Flow 3:  
Average throughput: 7.69 Mbit/s  
95th percentile per-packet one-way delay: 62.382 ms  
Loss rate: 3.55%

Run 3: Report of PCC-Allegro — Data Link

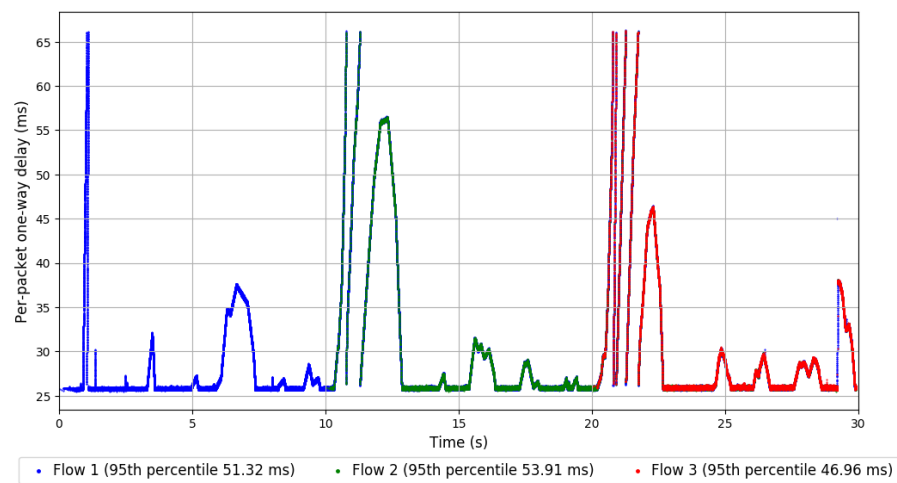
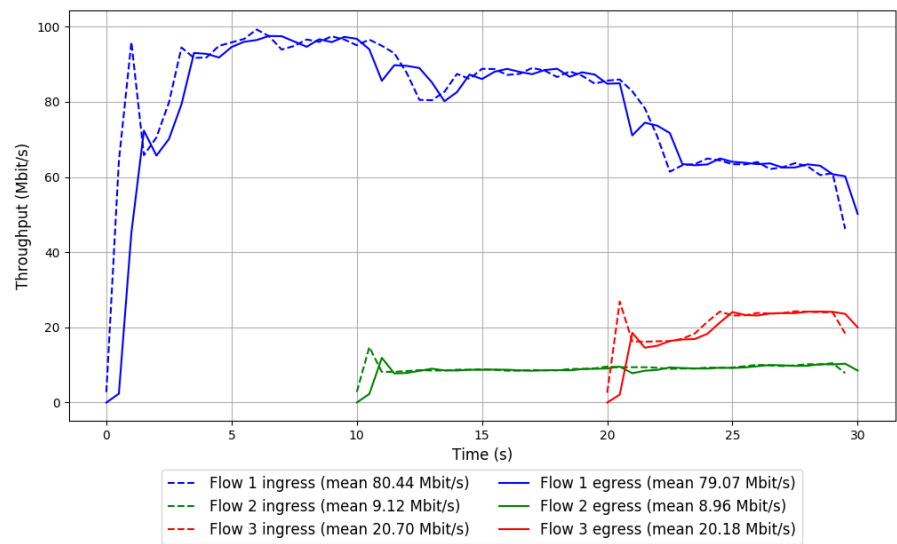


Run 4: Statistics of PCC-Allegro

Start at: 2019-07-18 00:42:14  
End at: 2019-07-18 00:42:44  
Local clock offset: 0.123 ms  
Remote clock offset: -2.688 ms

# Below is generated by plot.py at 2019-07-18 01:52:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.68 Mbit/s  
95th percentile per-packet one-way delay: 51.378 ms  
Loss rate: 1.77%  
-- Flow 1:  
Average throughput: 79.07 Mbit/s  
95th percentile per-packet one-way delay: 51.319 ms  
Loss rate: 1.71%  
-- Flow 2:  
Average throughput: 8.96 Mbit/s  
95th percentile per-packet one-way delay: 53.913 ms  
Loss rate: 1.72%  
-- Flow 3:  
Average throughput: 20.18 Mbit/s  
95th percentile per-packet one-way delay: 46.958 ms  
Loss rate: 2.50%

Run 4: Report of PCC-Allegro — Data Link

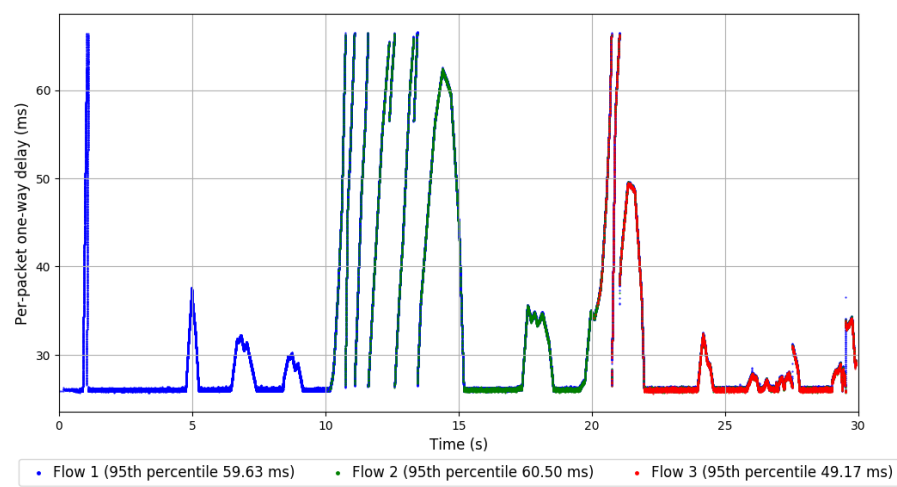
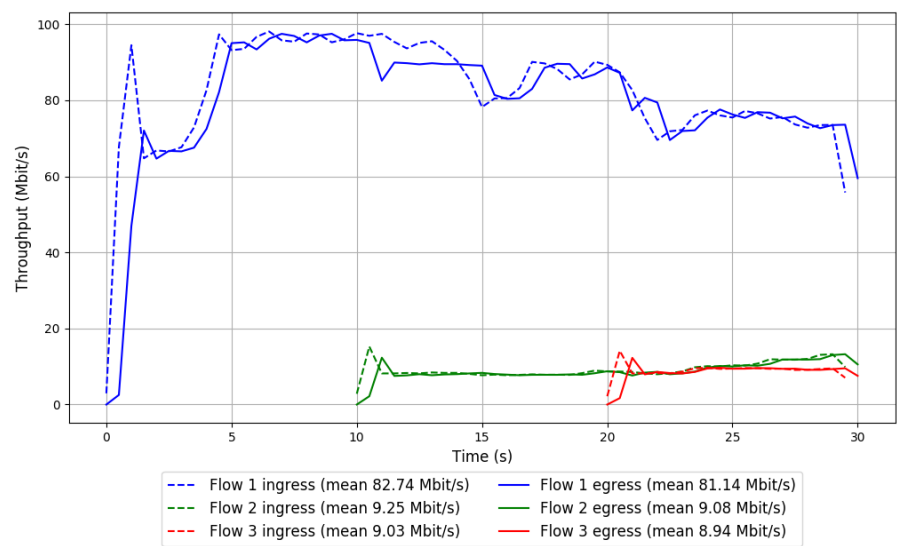


Run 5: Statistics of PCC-Allegro

Start at: 2019-07-18 01:16:53  
End at: 2019-07-18 01:17:23  
Local clock offset: 0.265 ms  
Remote clock offset: -2.738 ms

# Below is generated by plot.py at 2019-07-18 01:52:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.13 Mbit/s  
95th percentile per-packet one-way delay: 59.592 ms  
Loss rate: 1.88%  
-- Flow 1:  
Average throughput: 81.14 Mbit/s  
95th percentile per-packet one-way delay: 59.633 ms  
Loss rate: 1.92%  
-- Flow 2:  
Average throughput: 9.08 Mbit/s  
95th percentile per-packet one-way delay: 60.499 ms  
Loss rate: 1.85%  
-- Flow 3:  
Average throughput: 8.94 Mbit/s  
95th percentile per-packet one-way delay: 49.174 ms  
Loss rate: 1.01%

Run 5: Report of PCC-Allegro — Data Link

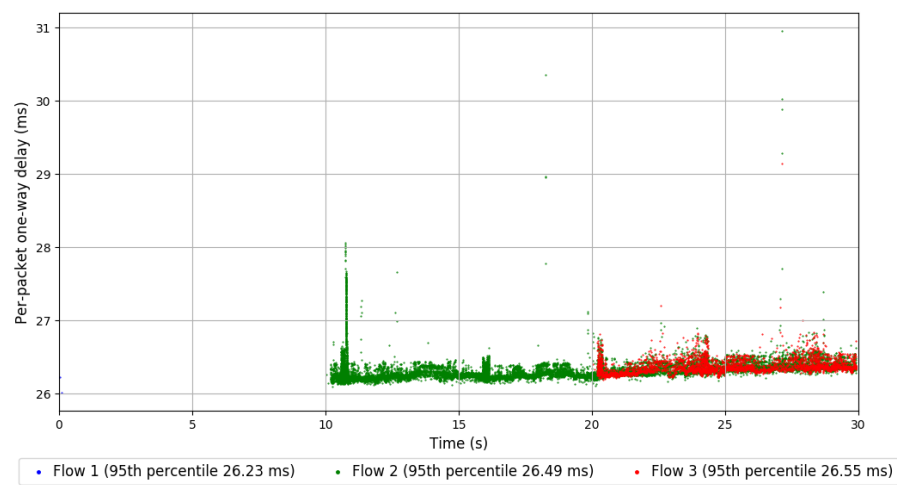
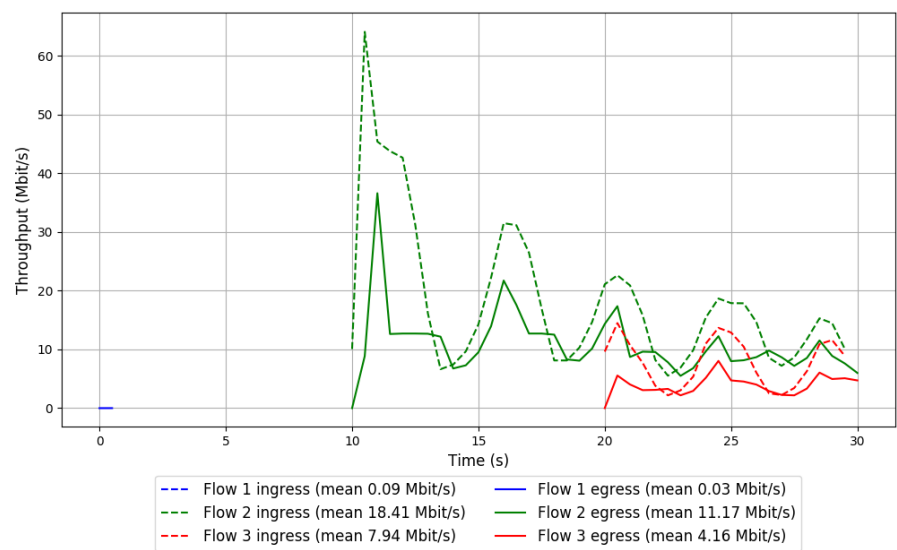


```
Run 1: Statistics of PCC-Expr

Start at: 2019-07-17 23:26:03
End at: 2019-07-17 23:26:33
Local clock offset: -4.578 ms
Remote clock offset: -5.071 ms

# Below is generated by plot.py at 2019-07-18 01:52:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.80 Mbit/s
95th percentile per-packet one-way delay: 26.507 ms
Loss rate: 40.79%
-- Flow 1:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 26.228 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 11.17 Mbit/s
95th percentile per-packet one-way delay: 26.489 ms
Loss rate: 39.32%
-- Flow 3:
Average throughput: 4.16 Mbit/s
95th percentile per-packet one-way delay: 26.550 ms
Loss rate: 47.65%
```

Run 1: Report of PCC-Expr — Data Link

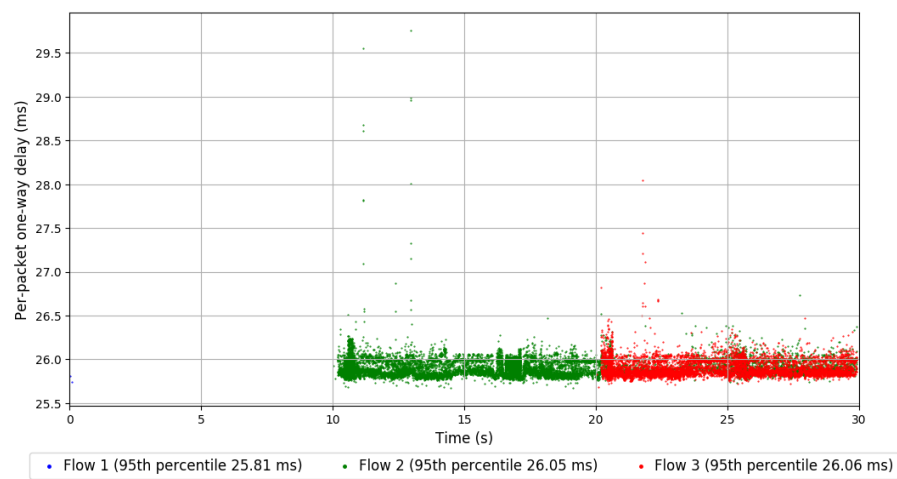
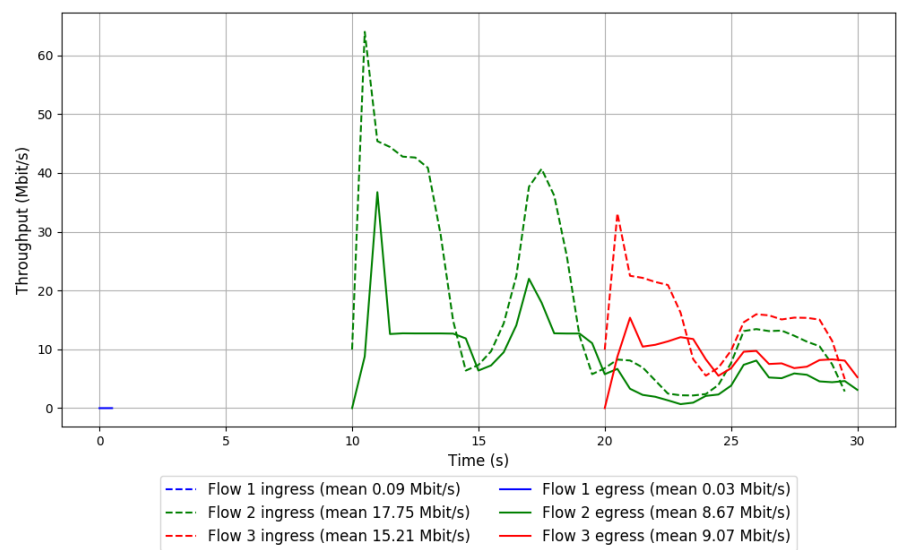


Run 2: Statistics of PCC-Expr

Start at: 2019-07-17 23:57:41  
End at: 2019-07-17 23:58:11  
Local clock offset: -0.618 ms  
Remote clock offset: -4.171 ms

# Below is generated by plot.py at 2019-07-18 01:52:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.77 Mbit/s  
95th percentile per-packet one-way delay: 26.055 ms  
Loss rate: 47.92%  
-- Flow 1:  
Average throughput: 0.03 Mbit/s  
95th percentile per-packet one-way delay: 25.811 ms  
Loss rate: 85.71%  
-- Flow 2:  
Average throughput: 8.67 Mbit/s  
95th percentile per-packet one-way delay: 26.053 ms  
Loss rate: 51.14%  
-- Flow 3:  
Average throughput: 9.07 Mbit/s  
95th percentile per-packet one-way delay: 26.061 ms  
Loss rate: 40.36%

Run 2: Report of PCC-Expr — Data Link

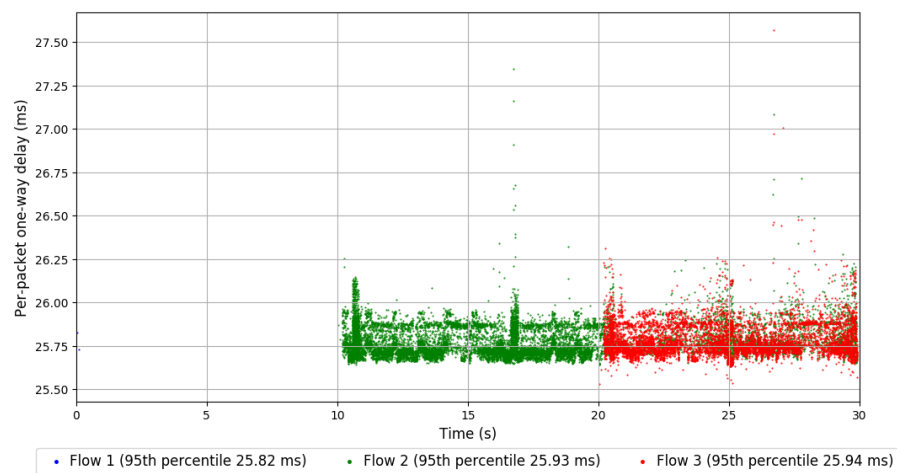
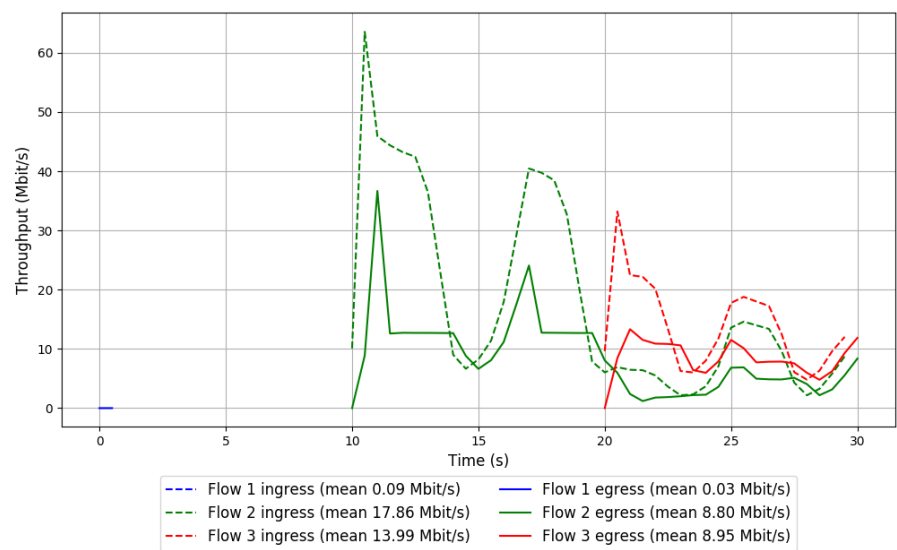


Run 3: Statistics of PCC-Expr

Start at: 2019-07-18 00:30:35  
End at: 2019-07-18 00:31:05  
Local clock offset: -0.102 ms  
Remote clock offset: -3.061 ms

# Below is generated by plot.py at 2019-07-18 01:52:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.81 Mbit/s  
95th percentile per-packet one-way delay: 25.936 ms  
Loss rate: 46.64%  
-- Flow 1:  
Average throughput: 0.03 Mbit/s  
95th percentile per-packet one-way delay: 25.825 ms  
Loss rate: 85.71%  
-- Flow 2:  
Average throughput: 8.80 Mbit/s  
95th percentile per-packet one-way delay: 25.934 ms  
Loss rate: 50.76%  
-- Flow 3:  
Average throughput: 8.95 Mbit/s  
95th percentile per-packet one-way delay: 25.939 ms  
Loss rate: 36.03%

Run 3: Report of PCC-Expr — Data Link

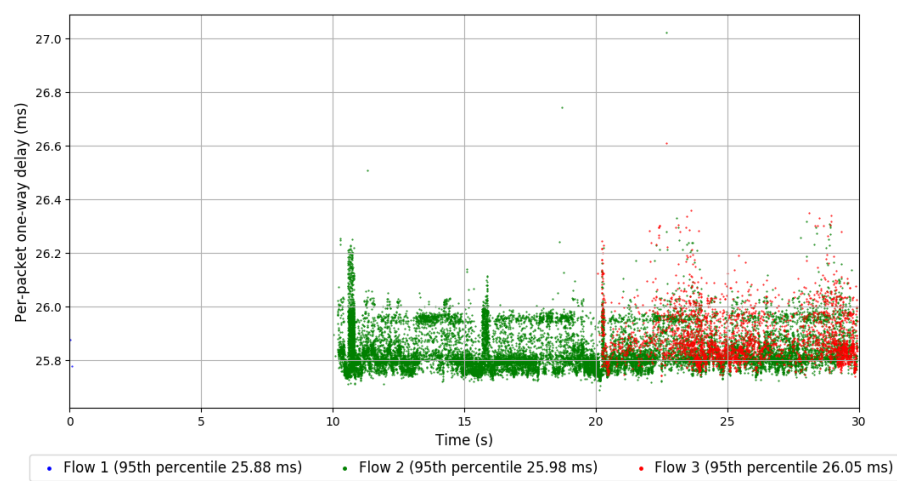
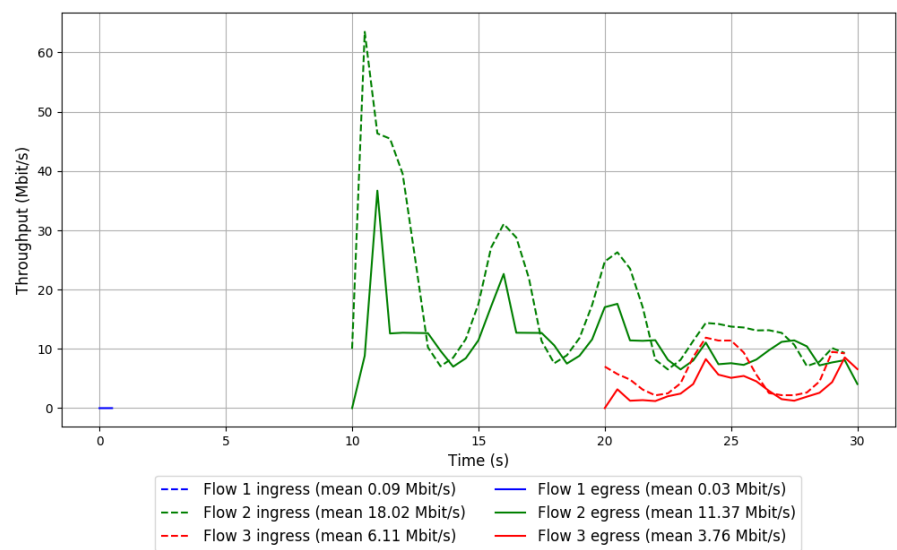


Run 4: Statistics of PCC-Expr

Start at: 2019-07-18 01:04:27  
End at: 2019-07-18 01:04:57  
Local clock offset: 0.212 ms  
Remote clock offset: -2.661 ms

# Below is generated by plot.py at 2019-07-18 01:52:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.80 Mbit/s  
95th percentile per-packet one-way delay: 25.990 ms  
Loss rate: 37.13%  
-- Flow 1:  
Average throughput: 0.03 Mbit/s  
95th percentile per-packet one-way delay: 25.877 ms  
Loss rate: 85.71%  
-- Flow 2:  
Average throughput: 11.37 Mbit/s  
95th percentile per-packet one-way delay: 25.977 ms  
Loss rate: 36.90%  
-- Flow 3:  
Average throughput: 3.76 Mbit/s  
95th percentile per-packet one-way delay: 26.049 ms  
Loss rate: 38.51%

Run 4: Report of PCC-Expr — Data Link

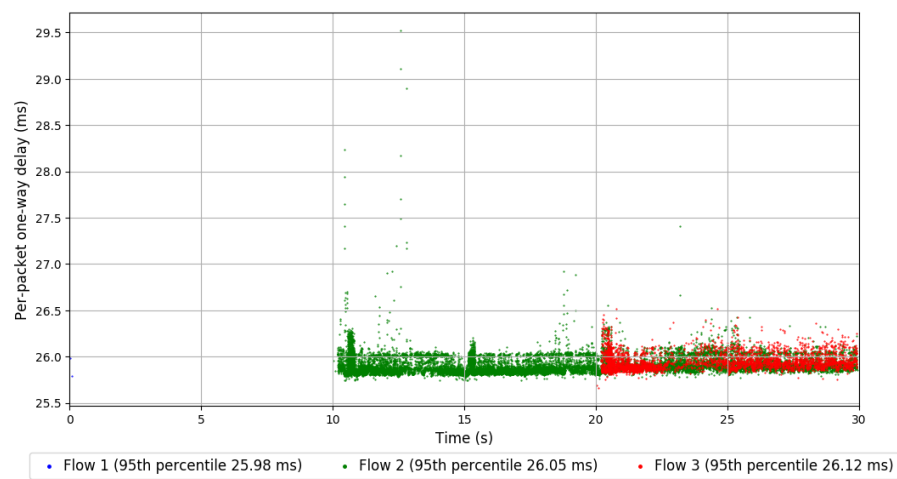
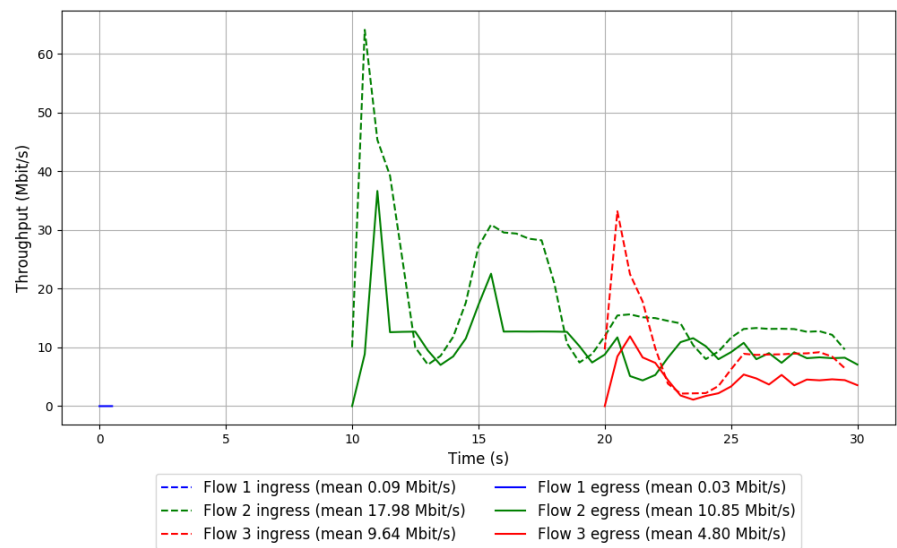


Run 5: Statistics of PCC-Expr

Start at: 2019-07-18 01:40:04  
End at: 2019-07-18 01:40:34  
Local clock offset: 3.3 ms  
Remote clock offset: -2.765 ms

# Below is generated by plot.py at 2019-07-18 01:52:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.80 Mbit/s  
95th percentile per-packet one-way delay: 26.076 ms  
Loss rate: 41.86%  
-- Flow 1:  
Average throughput: 0.03 Mbit/s  
95th percentile per-packet one-way delay: 25.981 ms  
Loss rate: 85.71%  
-- Flow 2:  
Average throughput: 10.85 Mbit/s  
95th percentile per-packet one-way delay: 26.055 ms  
Loss rate: 39.64%  
-- Flow 3:  
Average throughput: 4.80 Mbit/s  
95th percentile per-packet one-way delay: 26.121 ms  
Loss rate: 50.20%

Run 5: Report of PCC-Expr — Data Link

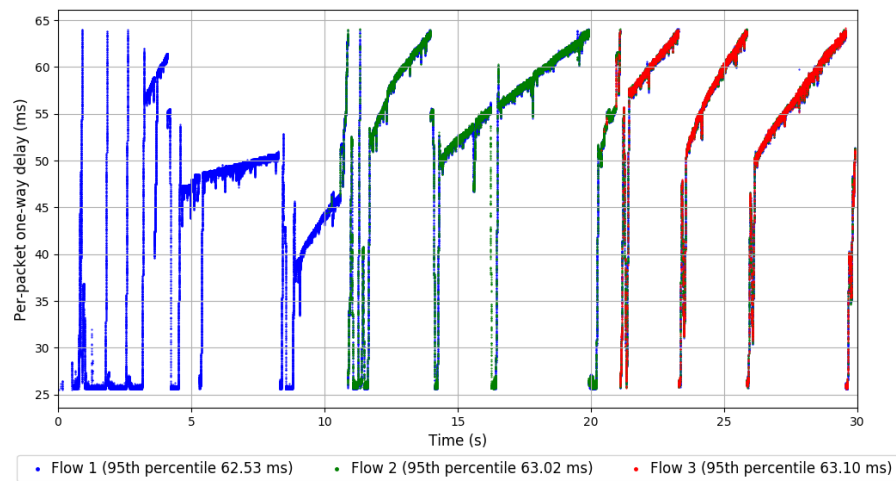
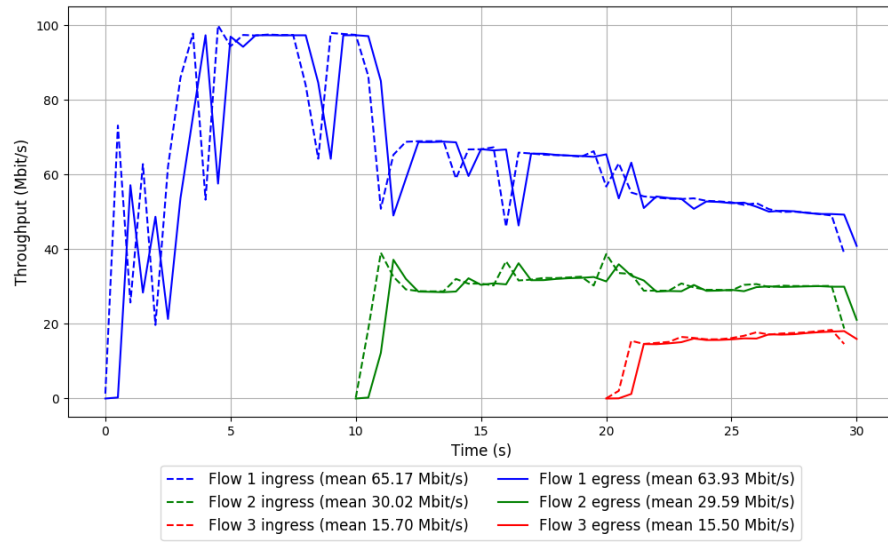


Run 1: Statistics of QUIC Cubic

Start at: 2019-07-17 23:04:59  
End at: 2019-07-17 23:05:29  
Local clock offset: -3.091 ms  
Remote clock offset: -5.183 ms

# Below is generated by plot.py at 2019-07-18 01:52:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.51 Mbit/s  
95th percentile per-packet one-way delay: 62.735 ms  
Loss rate: 1.70%  
-- Flow 1:  
Average throughput: 63.93 Mbit/s  
95th percentile per-packet one-way delay: 62.529 ms  
Loss rate: 1.81%  
-- Flow 2:  
Average throughput: 29.59 Mbit/s  
95th percentile per-packet one-way delay: 63.018 ms  
Loss rate: 1.41%  
-- Flow 3:  
Average throughput: 15.50 Mbit/s  
95th percentile per-packet one-way delay: 63.099 ms  
Loss rate: 1.30%

# Run 1: Report of QUIC Cubic — Data Link

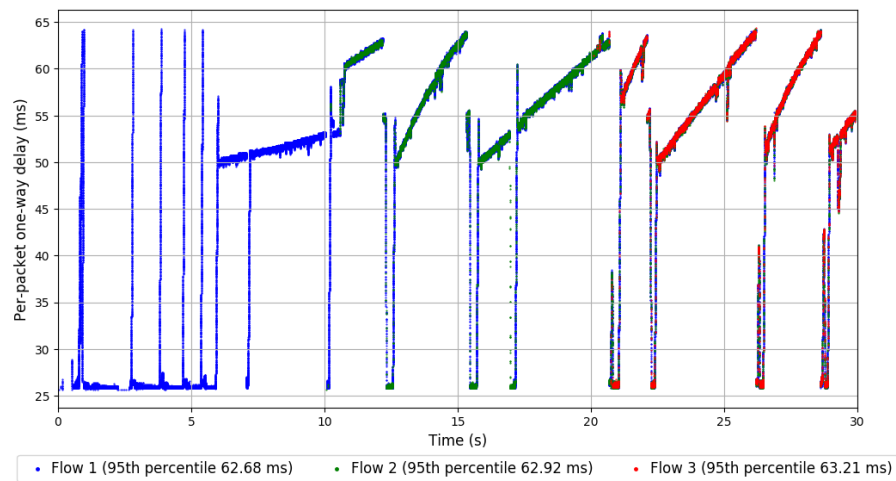
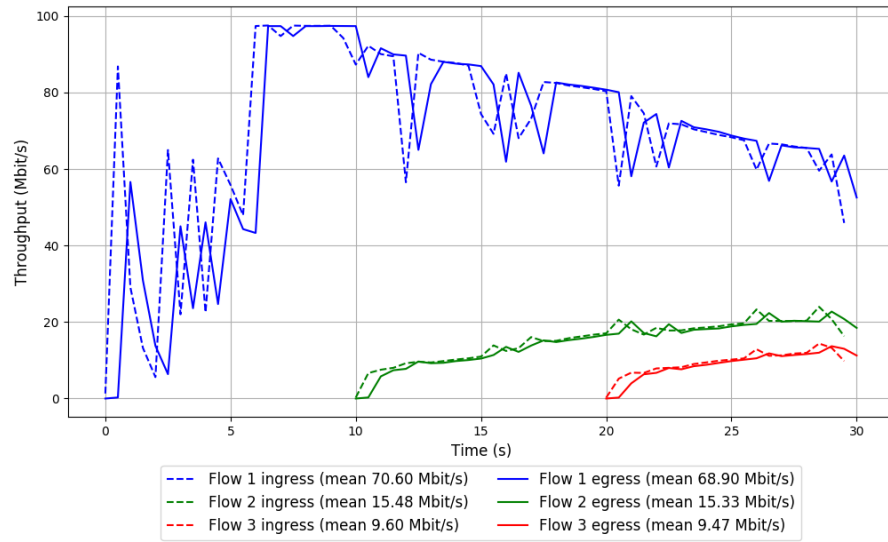


Run 2: Statistics of QUIC Cubic

Start at: 2019-07-17 23:38:59  
End at: 2019-07-17 23:39:29  
Local clock offset: -1.177 ms  
Remote clock offset: -4.772 ms

# Below is generated by plot.py at 2019-07-18 01:52:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.18 Mbit/s  
95th percentile per-packet one-way delay: 62.735 ms  
Loss rate: 2.10%  
-- Flow 1:  
Average throughput: 68.90 Mbit/s  
95th percentile per-packet one-way delay: 62.679 ms  
Loss rate: 2.32%  
-- Flow 2:  
Average throughput: 15.33 Mbit/s  
95th percentile per-packet one-way delay: 62.920 ms  
Loss rate: 0.80%  
-- Flow 3:  
Average throughput: 9.47 Mbit/s  
95th percentile per-packet one-way delay: 63.214 ms  
Loss rate: 1.45%

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

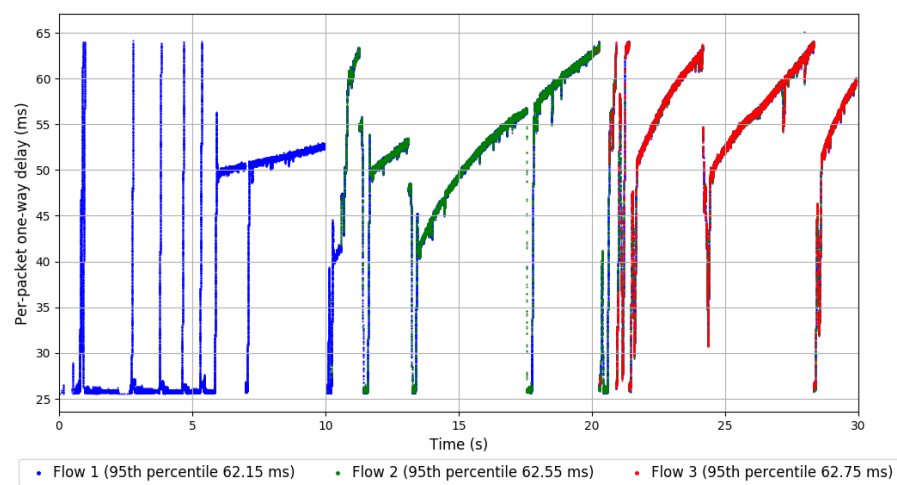
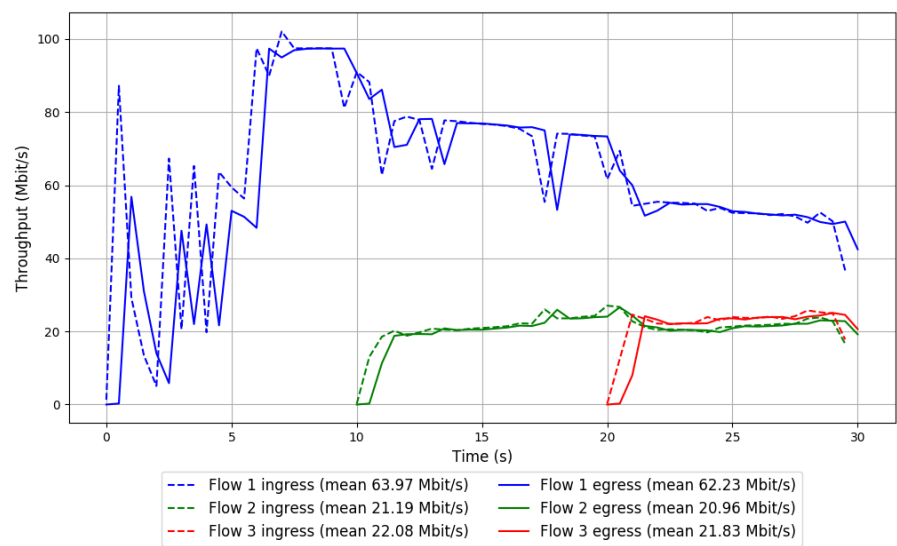


Run 3: Statistics of QUIC Cubic

Start at: 2019-07-18 00:11:26  
End at: 2019-07-18 00:11:56  
Local clock offset: -0.305 ms  
Remote clock offset: -3.721 ms

# Below is generated by plot.py at 2019-07-18 01:53:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.31 Mbit/s  
95th percentile per-packet one-way delay: 62.299 ms  
Loss rate: 2.21%  
-- Flow 1:  
Average throughput: 62.23 Mbit/s  
95th percentile per-packet one-way delay: 62.153 ms  
Loss rate: 2.60%  
-- Flow 2:  
Average throughput: 20.96 Mbit/s  
95th percentile per-packet one-way delay: 62.555 ms  
Loss rate: 0.93%  
-- Flow 3:  
Average throughput: 21.83 Mbit/s  
95th percentile per-packet one-way delay: 62.746 ms  
Loss rate: 1.17%

Run 3: Report of QUIC Cubic — Data Link

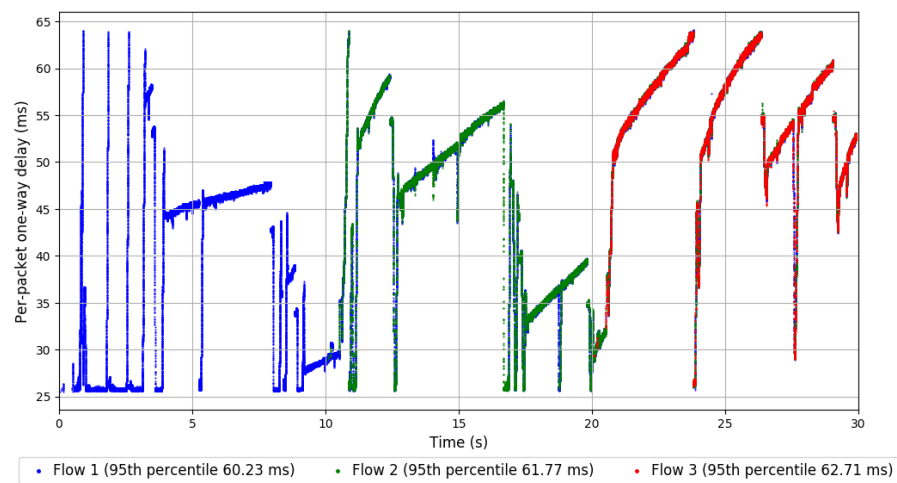
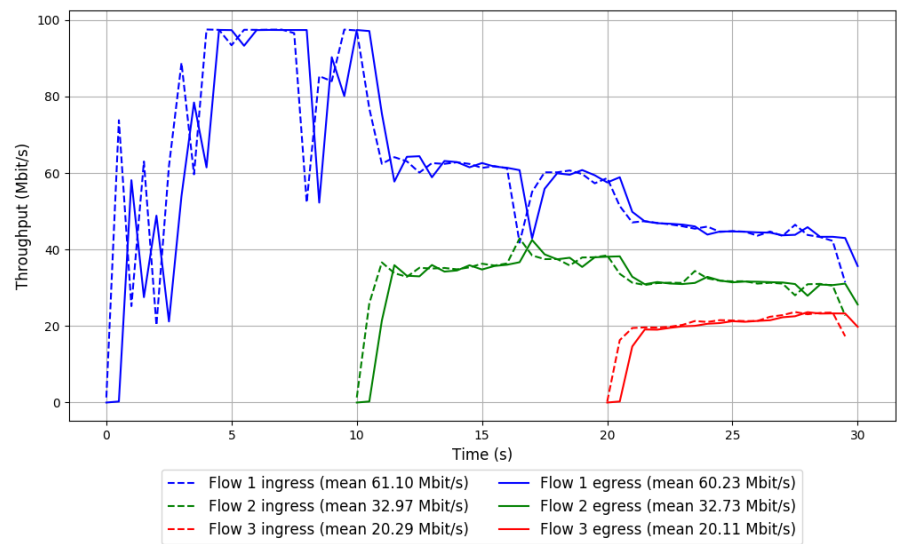


Run 4: Statistics of QUIC Cubic

Start at: 2019-07-18 00:44:47  
End at: 2019-07-18 00:45:17  
Local clock offset: 0.114 ms  
Remote clock offset: -2.615 ms

# Below is generated by plot.py at 2019-07-18 01:53:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.64 Mbit/s  
95th percentile per-packet one-way delay: 61.230 ms  
Loss rate: 1.11%  
-- Flow 1:  
Average throughput: 60.23 Mbit/s  
95th percentile per-packet one-way delay: 60.226 ms  
Loss rate: 1.35%  
-- Flow 2:  
Average throughput: 32.73 Mbit/s  
95th percentile per-packet one-way delay: 61.767 ms  
Loss rate: 0.59%  
-- Flow 3:  
Average throughput: 20.11 Mbit/s  
95th percentile per-packet one-way delay: 62.712 ms  
Loss rate: 0.62%

Run 4: Report of QUIC Cubic — Data Link

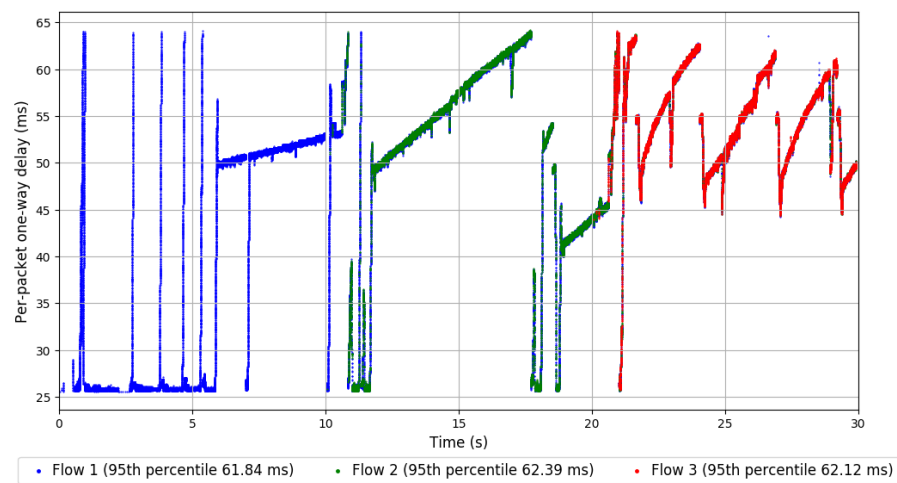
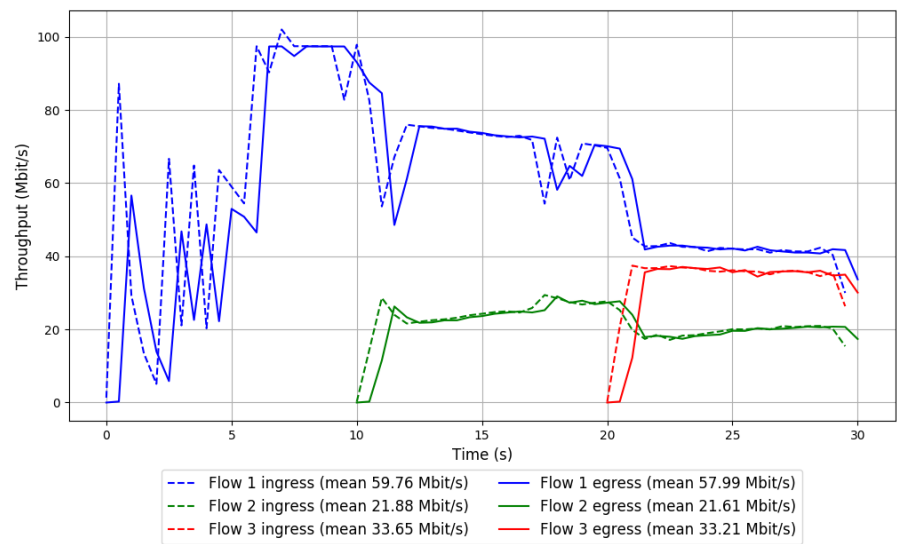


Run 5: Statistics of QUIC Cubic

Start at: 2019-07-18 01:19:34  
End at: 2019-07-18 01:20:04  
Local clock offset: 0.268 ms  
Remote clock offset: -2.915 ms

# Below is generated by plot.py at 2019-07-18 01:53:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.27 Mbit/s  
95th percentile per-packet one-way delay: 61.939 ms  
Loss rate: 2.37%  
-- Flow 1:  
Average throughput: 57.99 Mbit/s  
95th percentile per-packet one-way delay: 61.835 ms  
Loss rate: 2.89%  
-- Flow 2:  
Average throughput: 21.61 Mbit/s  
95th percentile per-packet one-way delay: 62.389 ms  
Loss rate: 1.13%  
-- Flow 3:  
Average throughput: 33.21 Mbit/s  
95th percentile per-packet one-way delay: 62.123 ms  
Loss rate: 1.24%

Run 5: Report of QUIC Cubic — Data Link

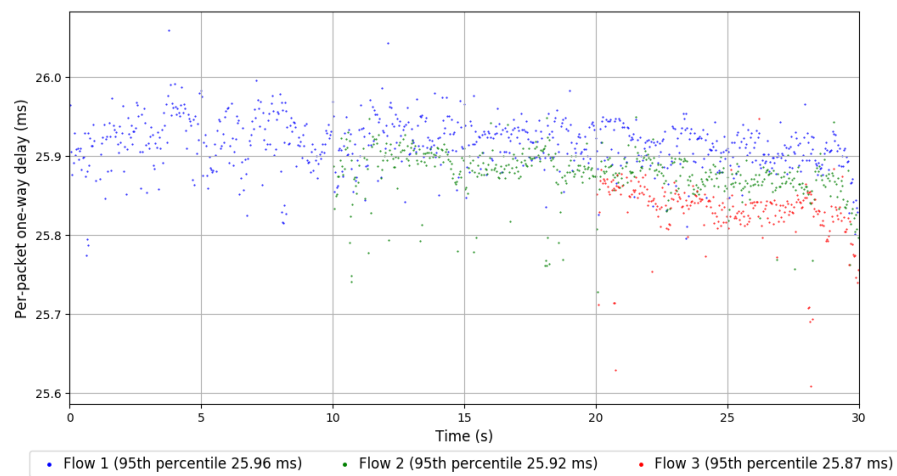
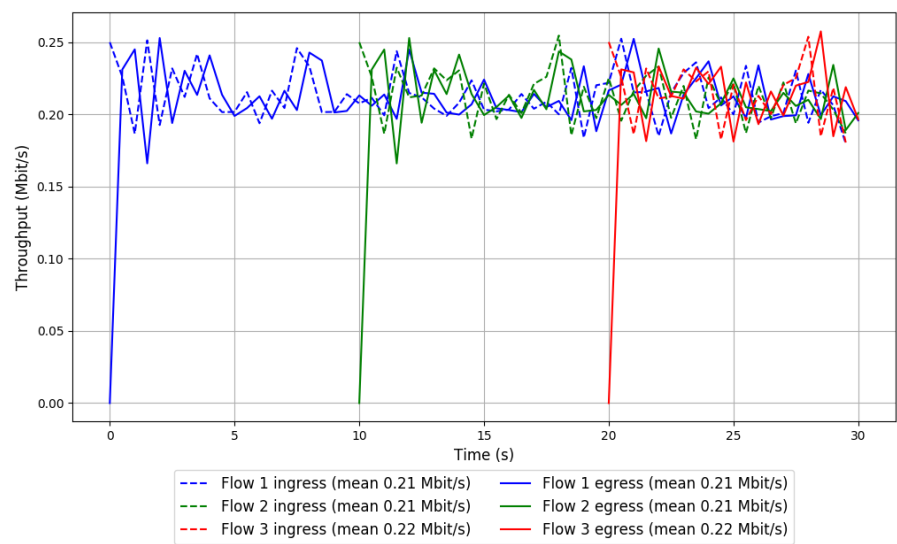


```
Run 1: Statistics of SReAM

Start at: 2019-07-17 23:13:21
End at: 2019-07-17 23:13:51
Local clock offset: -4.095 ms
Remote clock offset: -5.22 ms

# Below is generated by plot.py at 2019-07-18 01:53:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 25.952 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 25.964 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 25.916 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 25.870 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

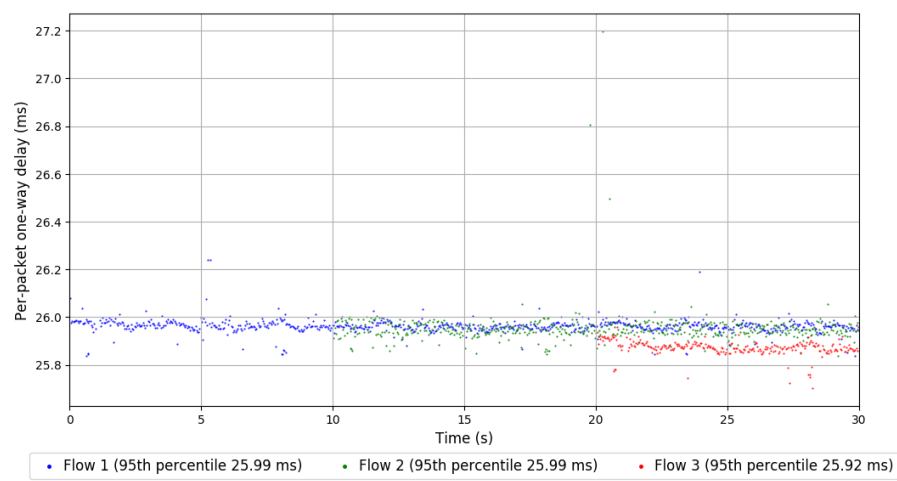
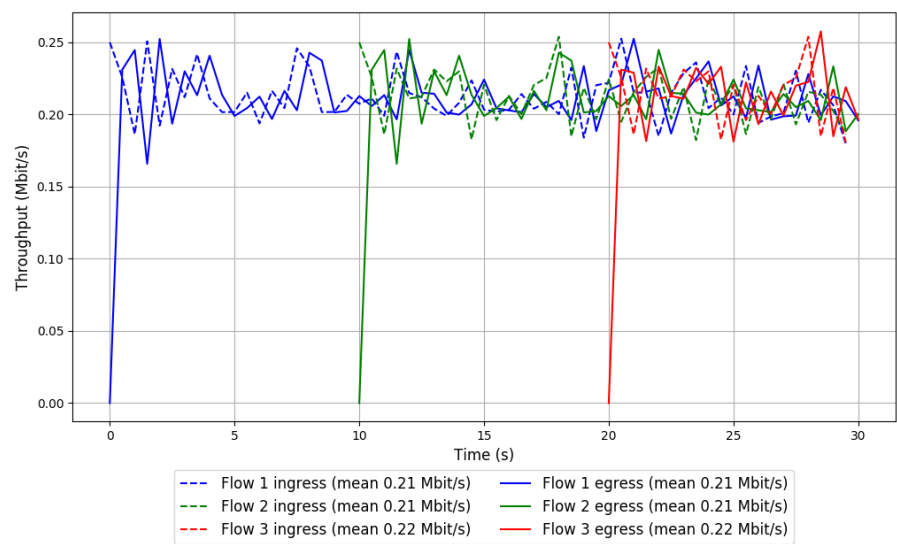


Run 2: Statistics of SReAM

Start at: 2019-07-17 23:45:55  
End at: 2019-07-17 23:46:25  
Local clock offset: -0.798 ms  
Remote clock offset: -4.567 ms

# Below is generated by plot.py at 2019-07-18 01:53:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 25.990 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 25.993 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 25.993 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 25.916 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

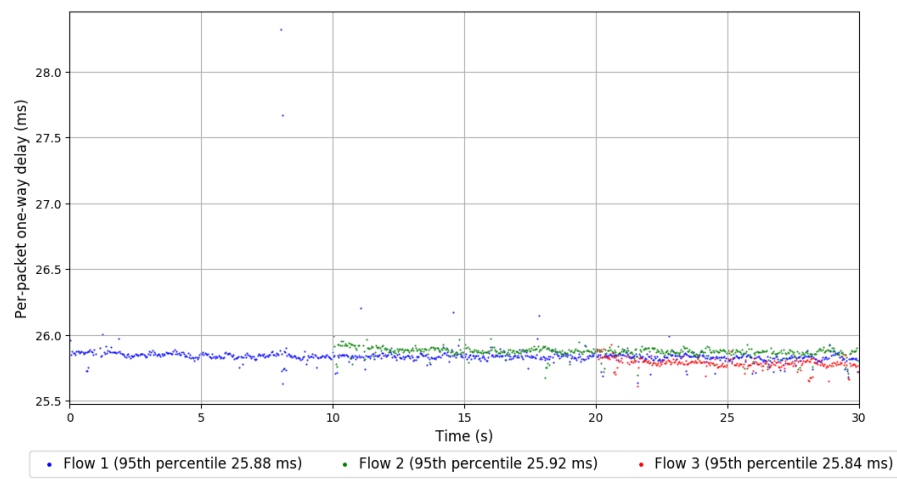
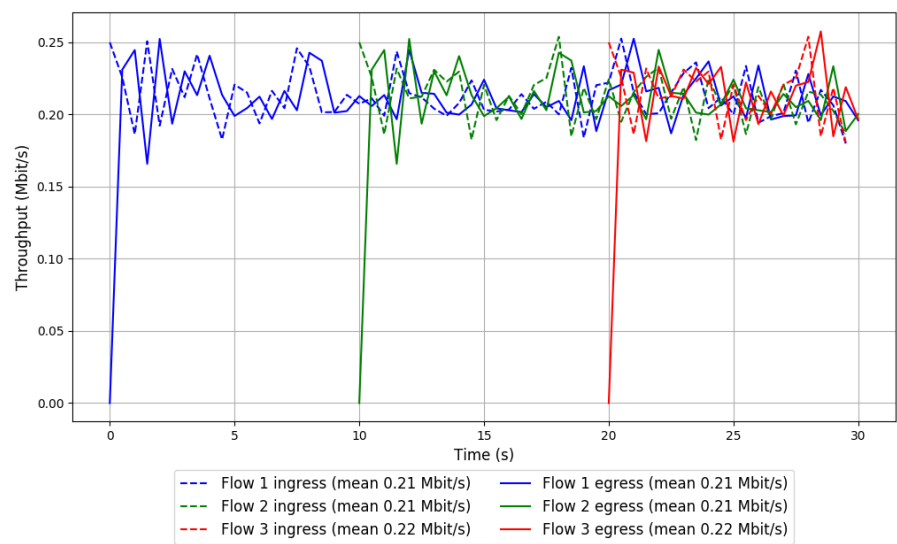


Run 3: Statistics of SReAM

Start at: 2019-07-18 00:18:21  
End at: 2019-07-18 00:18:51  
Local clock offset: -0.267 ms  
Remote clock offset: -3.458 ms

# Below is generated by plot.py at 2019-07-18 01:53:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 25.905 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 25.879 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 25.921 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 25.839 ms  
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

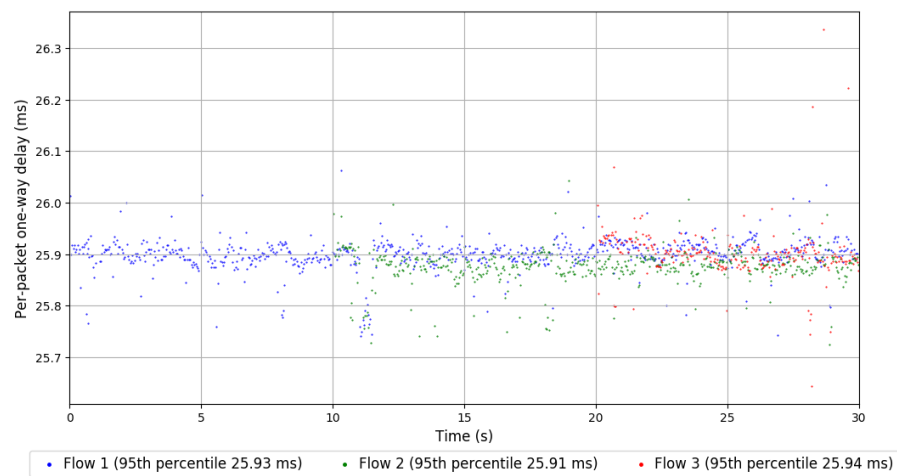
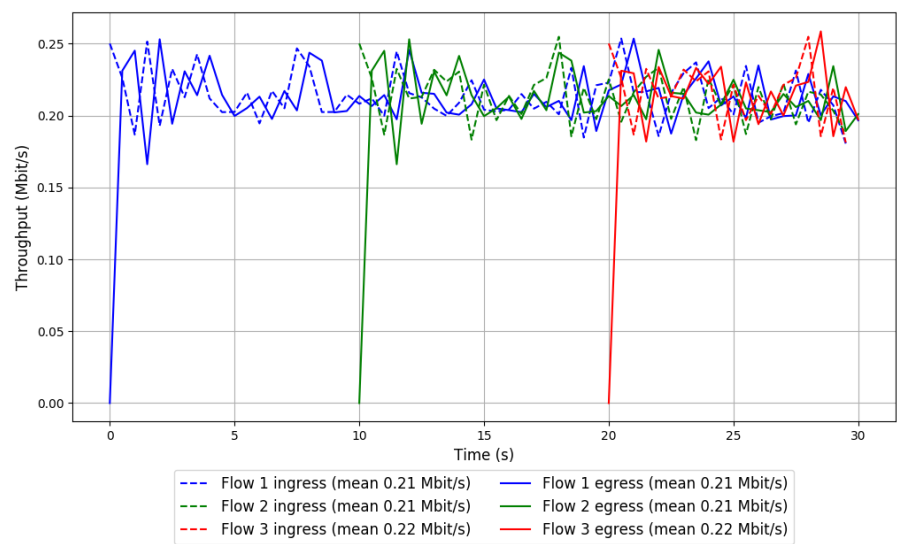


Run 4: Statistics of SReAM

Start at: 2019-07-18 00:51:34  
End at: 2019-07-18 00:52:04  
Local clock offset: 0.17 ms  
Remote clock offset: -2.501 ms

# Below is generated by plot.py at 2019-07-18 01:53:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 25.934 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 25.935 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 25.914 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 25.944 ms  
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

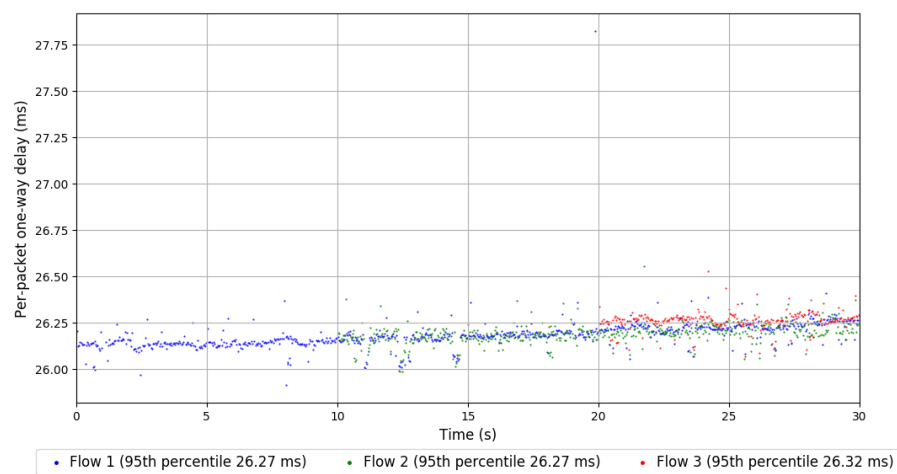
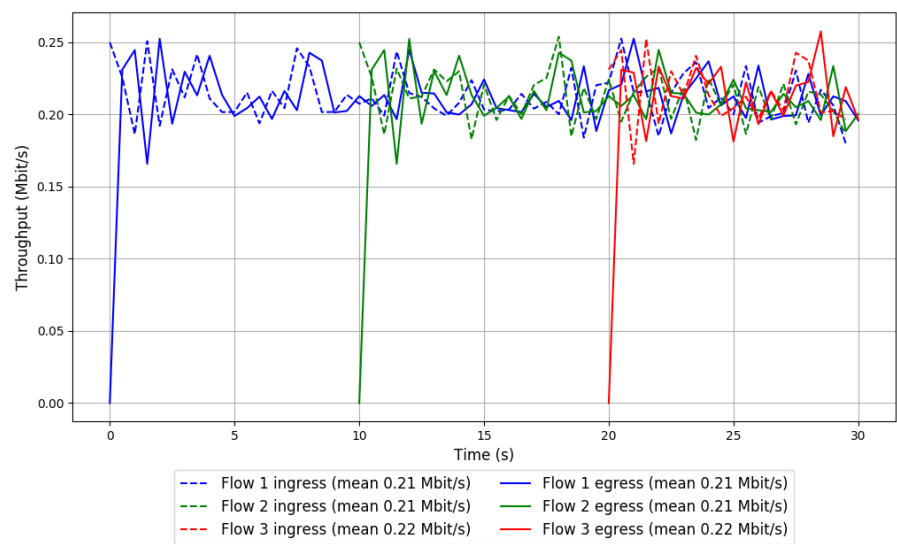


Run 5: Statistics of SReAM

Start at: 2019-07-18 01:27:07  
End at: 2019-07-18 01:27:37  
Local clock offset: 1.074 ms  
Remote clock offset: -2.734 ms

# Below is generated by plot.py at 2019-07-18 01:53:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 26.290 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 26.269 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 26.266 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 26.322 ms  
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

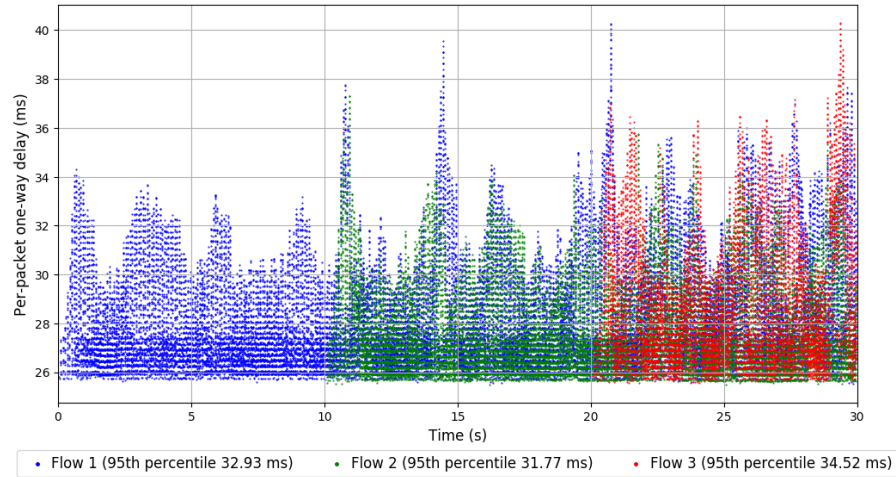
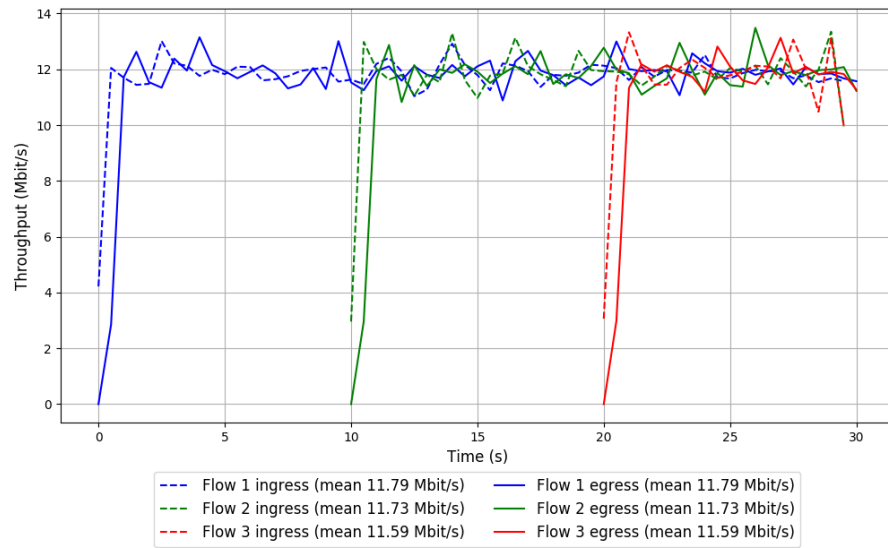


Run 1: Statistics of Sprout

Start at: 2019-07-17 23:08:35  
End at: 2019-07-17 23:09:05  
Local clock offset: -3.484 ms  
Remote clock offset: -5.175 ms

# Below is generated by plot.py at 2019-07-18 01:53:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 23.42 Mbit/s  
95th percentile per-packet one-way delay: 32.911 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 11.79 Mbit/s  
95th percentile per-packet one-way delay: 32.934 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 11.73 Mbit/s  
95th percentile per-packet one-way delay: 31.771 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 11.59 Mbit/s  
95th percentile per-packet one-way delay: 34.524 ms  
Loss rate: 0.00%

## Run 1: Report of Sprout — Data Link

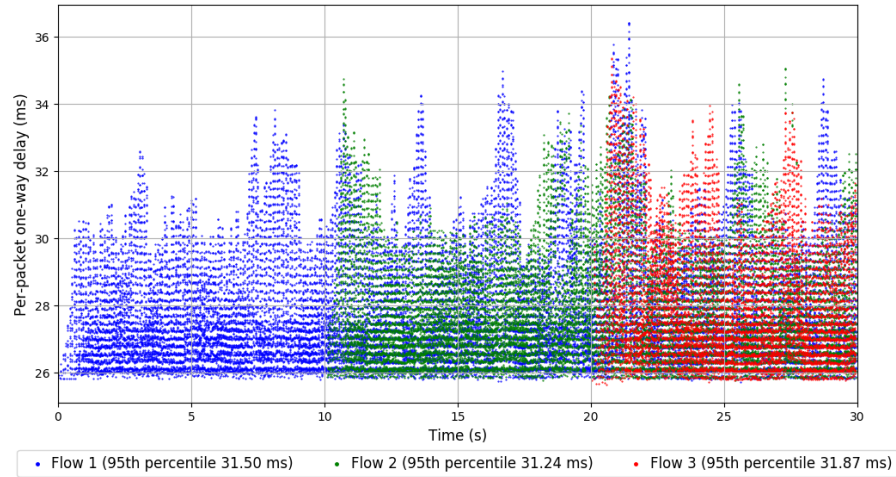
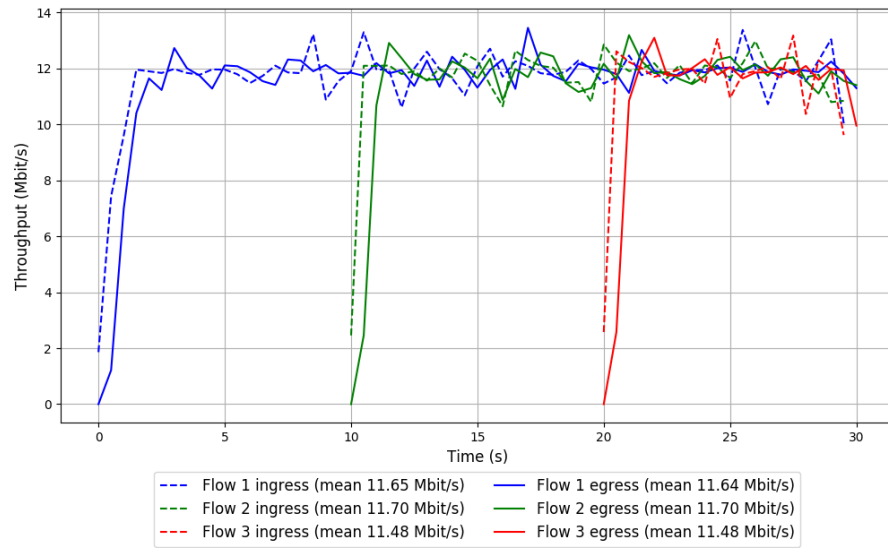


Run 2: Statistics of Sprout

Start at: 2019-07-17 23:42:06  
End at: 2019-07-17 23:42:36  
Local clock offset: -0.933 ms  
Remote clock offset: -4.66 ms

# Below is generated by plot.py at 2019-07-18 01:53:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 23.22 Mbit/s  
95th percentile per-packet one-way delay: 31.472 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 11.64 Mbit/s  
95th percentile per-packet one-way delay: 31.502 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 11.70 Mbit/s  
95th percentile per-packet one-way delay: 31.236 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 11.48 Mbit/s  
95th percentile per-packet one-way delay: 31.867 ms  
Loss rate: 0.00%

## Run 2: Report of Sprout — Data Link

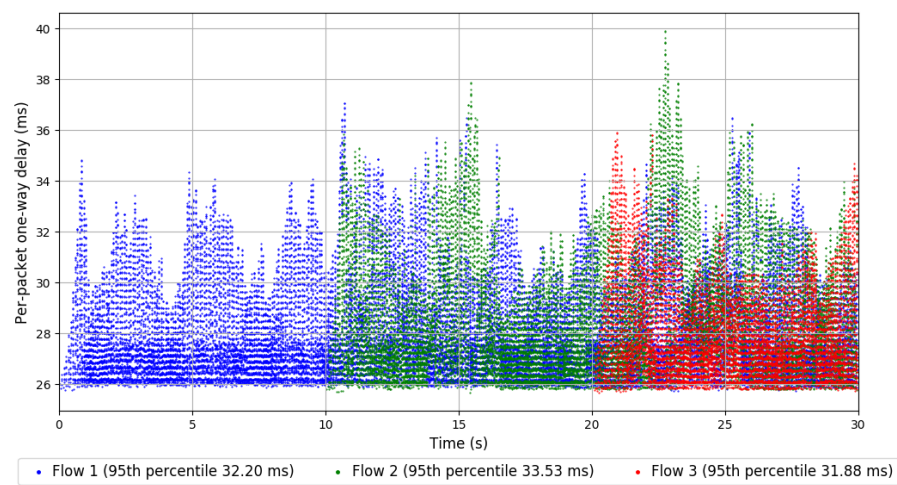
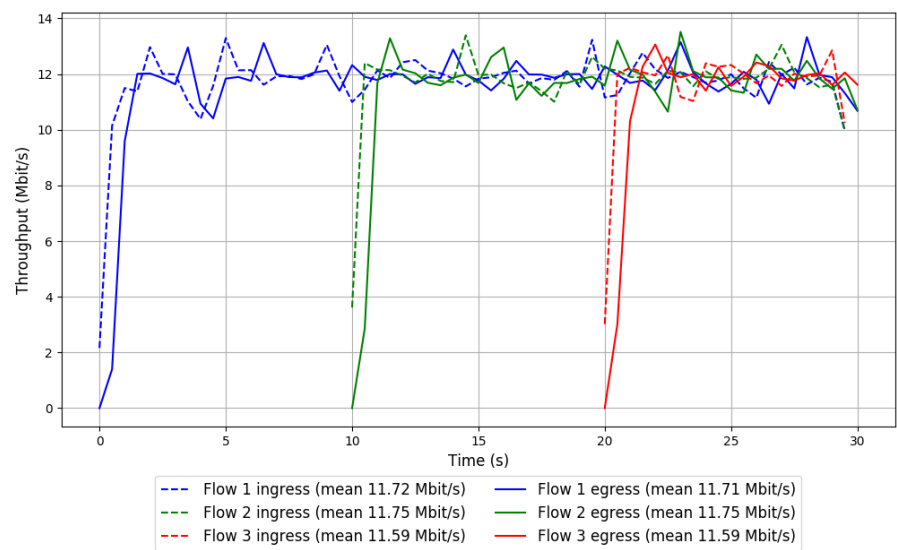


Run 3: Statistics of Sprout

Start at: 2019-07-18 00:14:06  
End at: 2019-07-18 00:14:36  
Local clock offset: -0.305 ms  
Remote clock offset: -3.548 ms

# Below is generated by plot.py at 2019-07-18 01:53:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 23.35 Mbit/s  
95th percentile per-packet one-way delay: 32.618 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 11.71 Mbit/s  
95th percentile per-packet one-way delay: 32.201 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 11.75 Mbit/s  
95th percentile per-packet one-way delay: 33.535 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 11.59 Mbit/s  
95th percentile per-packet one-way delay: 31.879 ms  
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

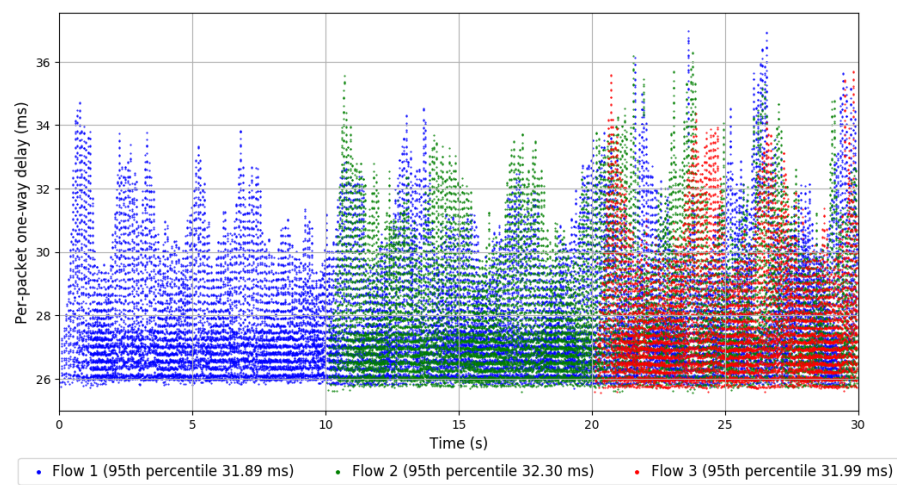
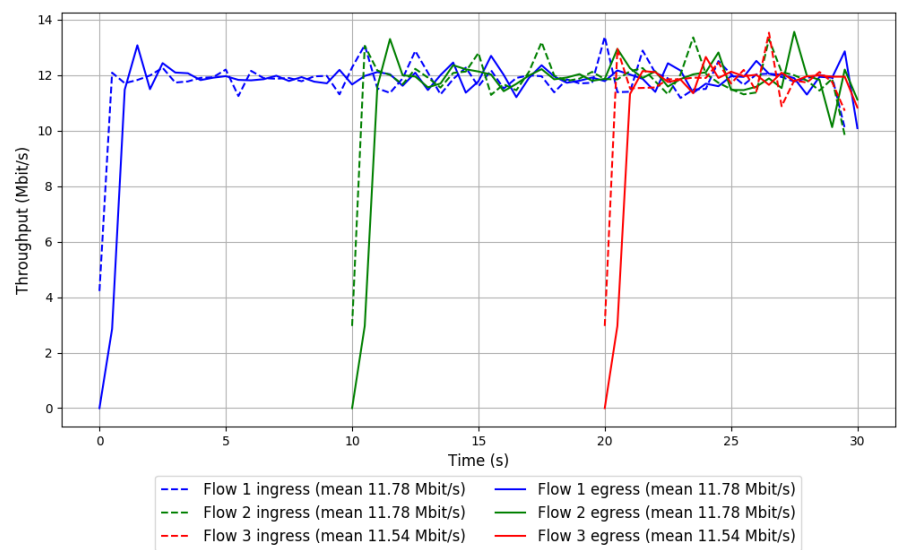


Run 4: Statistics of Sprout

Start at: 2019-07-18 00:47:43  
End at: 2019-07-18 00:48:13  
Local clock offset: 0.128 ms  
Remote clock offset: -2.559 ms

# Below is generated by plot.py at 2019-07-18 01:53:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 23.43 Mbit/s  
95th percentile per-packet one-way delay: 32.061 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 11.78 Mbit/s  
95th percentile per-packet one-way delay: 31.887 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 11.78 Mbit/s  
95th percentile per-packet one-way delay: 32.298 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 11.54 Mbit/s  
95th percentile per-packet one-way delay: 31.992 ms  
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

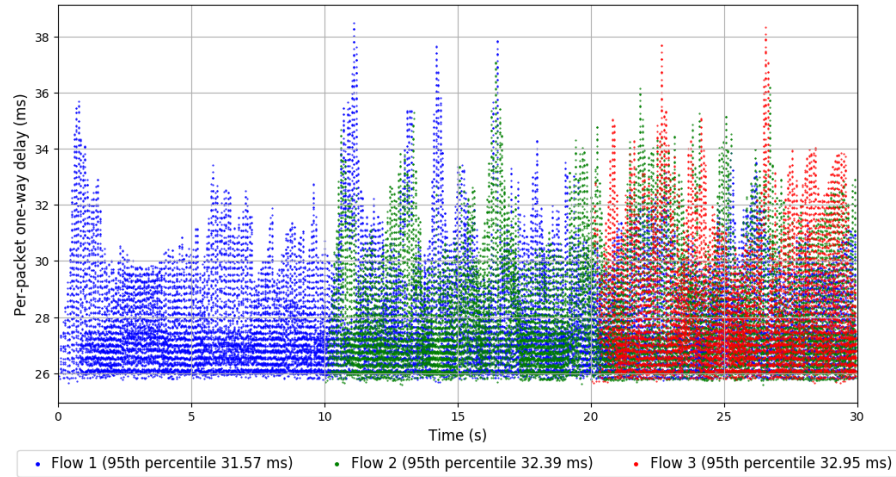
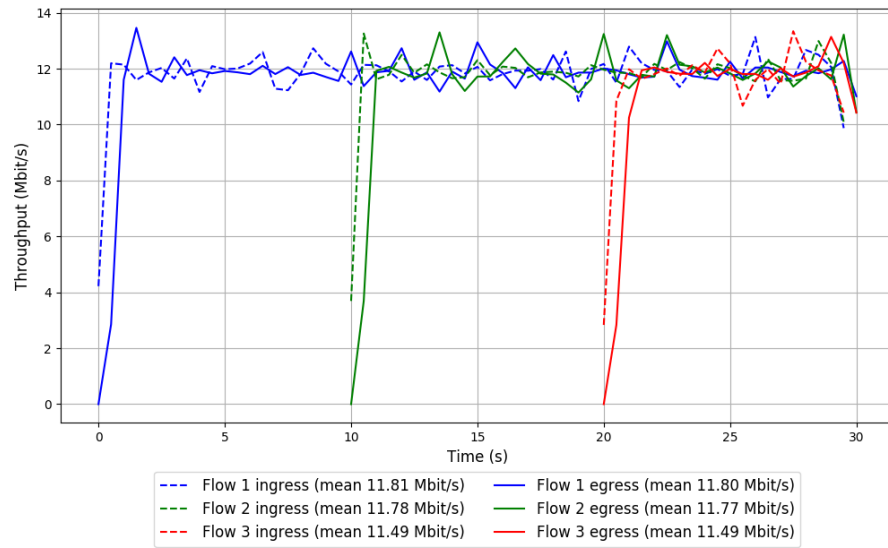


Run 5: Statistics of Sprout

Start at: 2019-07-18 01:22:27  
End at: 2019-07-18 01:22:57  
Local clock offset: 0.346 ms  
Remote clock offset: -2.845 ms

```
# Below is generated by plot.py at 2019-07-18 01:53:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.43 Mbit/s
95th percentile per-packet one-way delay: 32.194 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.80 Mbit/s
95th percentile per-packet one-way delay: 31.569 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.77 Mbit/s
95th percentile per-packet one-way delay: 32.387 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.49 Mbit/s
95th percentile per-packet one-way delay: 32.945 ms
Loss rate: 0.00%
```

## Run 5: Report of Sprout — Data Link

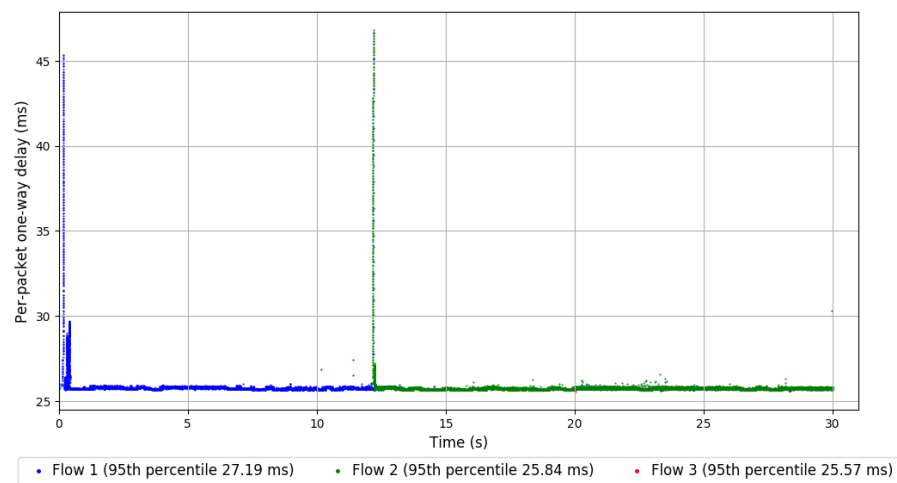
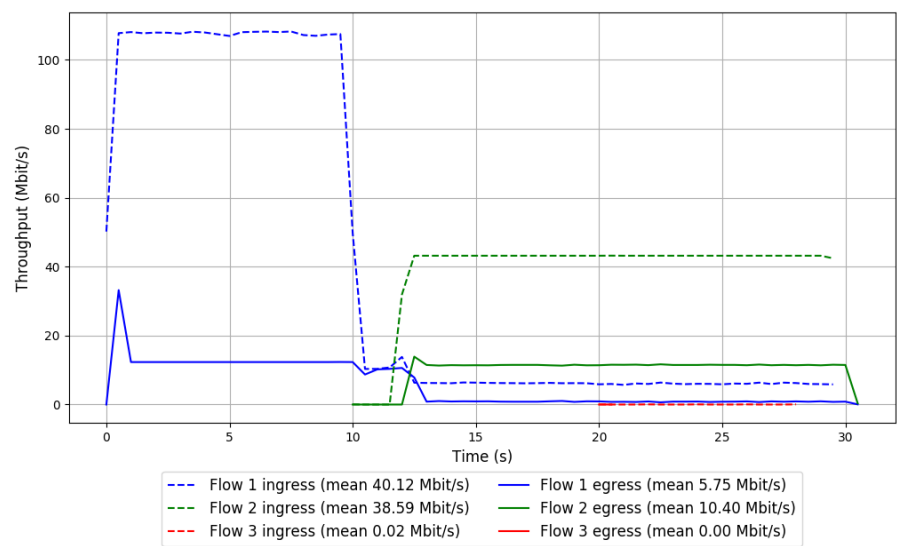


Run 1: Statistics of TaoVA-100x

Start at: 2019-07-17 23:03:41  
End at: 2019-07-17 23:04:11  
Local clock offset: -2.903 ms  
Remote clock offset: -5.162 ms

# Below is generated by plot.py at 2019-07-18 01:53:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.68 Mbit/s  
95th percentile per-packet one-way delay: 25.914 ms  
Loss rate: 80.74%  
-- Flow 1:  
Average throughput: 5.75 Mbit/s  
95th percentile per-packet one-way delay: 27.187 ms  
Loss rate: 85.66%  
-- Flow 2:  
Average throughput: 10.40 Mbit/s  
95th percentile per-packet one-way delay: 25.844 ms  
Loss rate: 73.05%  
-- Flow 3:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 25.575 ms  
Loss rate: 99.16%

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

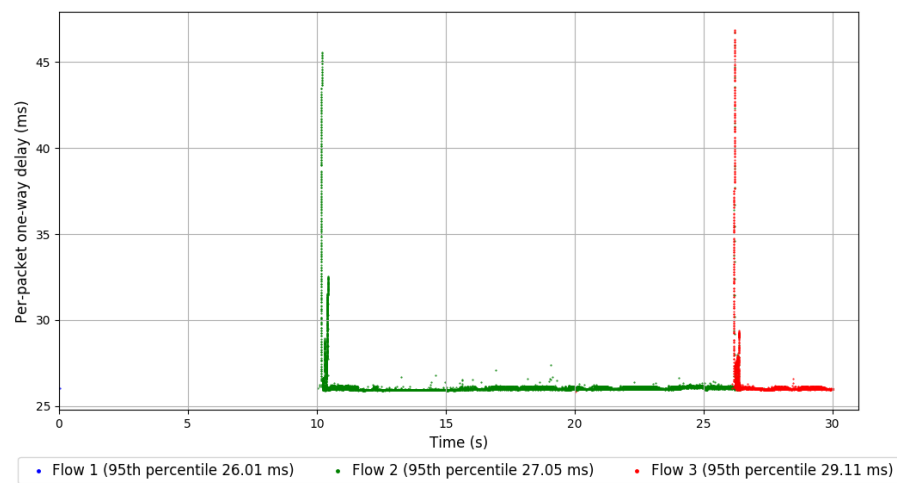
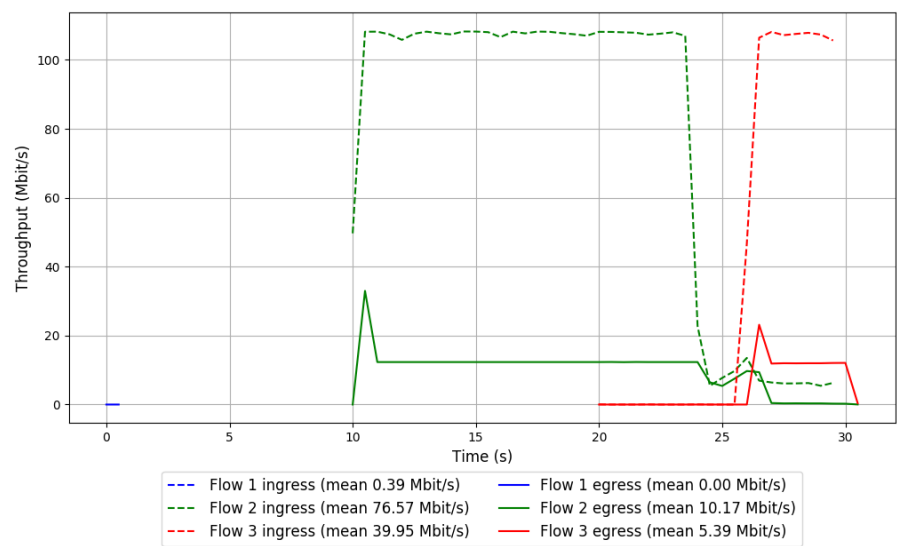


Run 2: Statistics of TaoVA-100x

Start at: 2019-07-17 23:37:48  
End at: 2019-07-17 23:38:18  
Local clock offset: -1.332 ms  
Remote clock offset: -4.783 ms

# Below is generated by plot.py at 2019-07-18 01:53:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.57 Mbit/s  
95th percentile per-packet one-way delay: 27.543 ms  
Loss rate: 86.67%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 26.010 ms  
Loss rate: 95.92%  
-- Flow 2:  
Average throughput: 10.17 Mbit/s  
95th percentile per-packet one-way delay: 27.046 ms  
Loss rate: 86.72%  
-- Flow 3:  
Average throughput: 5.39 Mbit/s  
95th percentile per-packet one-way delay: 29.115 ms  
Loss rate: 86.51%

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

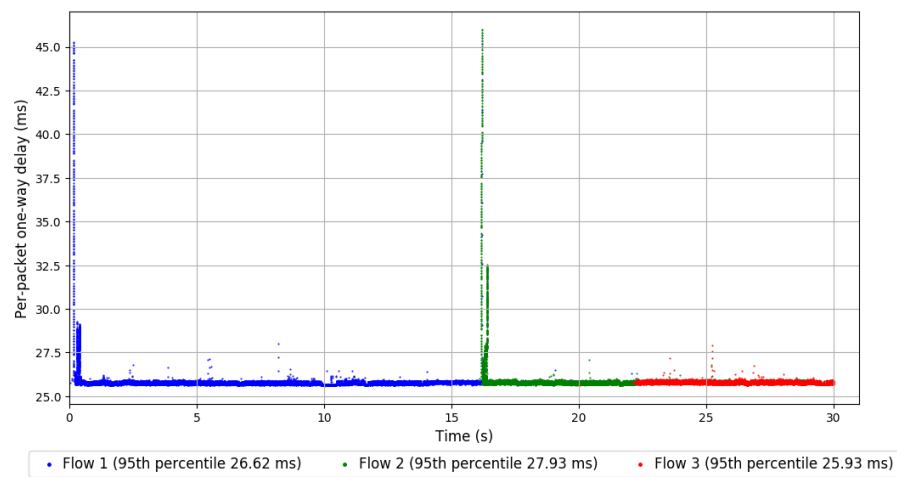
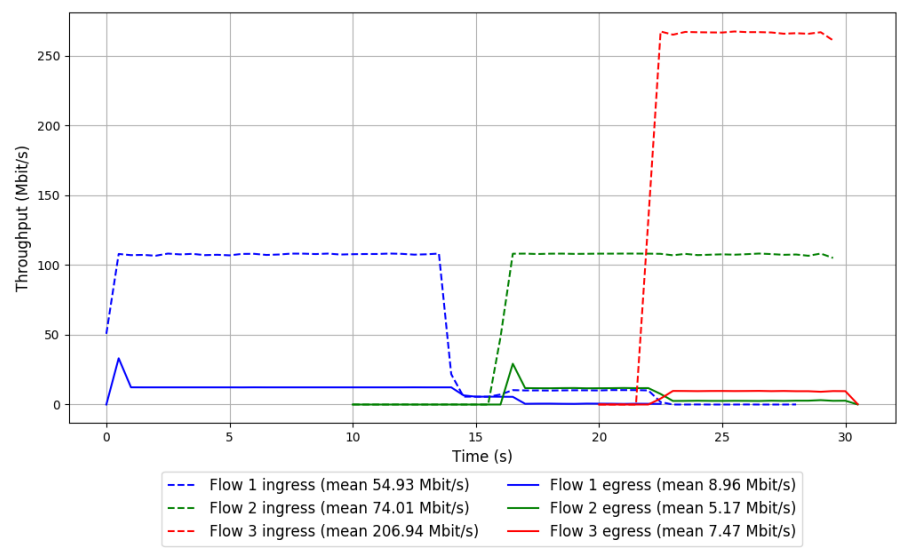


Run 3: Statistics of TaoVA-100x

Start at: 2019-07-18 00:10:14  
End at: 2019-07-18 00:10:44  
Local clock offset: -0.298 ms  
Remote clock offset: -3.771 ms

# Below is generated by plot.py at 2019-07-18 01:53:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.62 Mbit/s  
95th percentile per-packet one-way delay: 26.578 ms  
Loss rate: 92.59%  
-- Flow 1:  
Average throughput: 8.96 Mbit/s  
95th percentile per-packet one-way delay: 26.625 ms  
Loss rate: 87.16%  
-- Flow 2:  
Average throughput: 5.17 Mbit/s  
95th percentile per-packet one-way delay: 27.926 ms  
Loss rate: 93.01%  
-- Flow 3:  
Average throughput: 7.47 Mbit/s  
95th percentile per-packet one-way delay: 25.934 ms  
Loss rate: 96.39%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-07-18 00:43:33

End at: 2019-07-18 00:44:03

Local clock offset: 0.119 ms

Remote clock offset: -2.57 ms

# Below is generated by plot.py at 2019-07-18 01:53:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 12.68 Mbit/s

95th percentile per-packet one-way delay: 26.023 ms

Loss rate: 91.07%

-- Flow 1:

Average throughput: 7.30 Mbit/s

95th percentile per-packet one-way delay: 26.290 ms

Loss rate: 86.24%

-- Flow 2:

Average throughput: 3.57 Mbit/s

95th percentile per-packet one-way delay: 26.027 ms

Loss rate: 34.15%

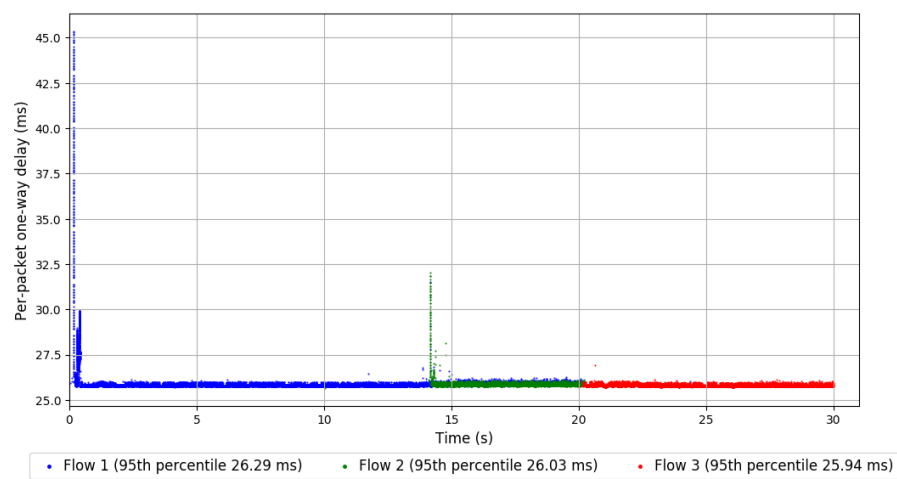
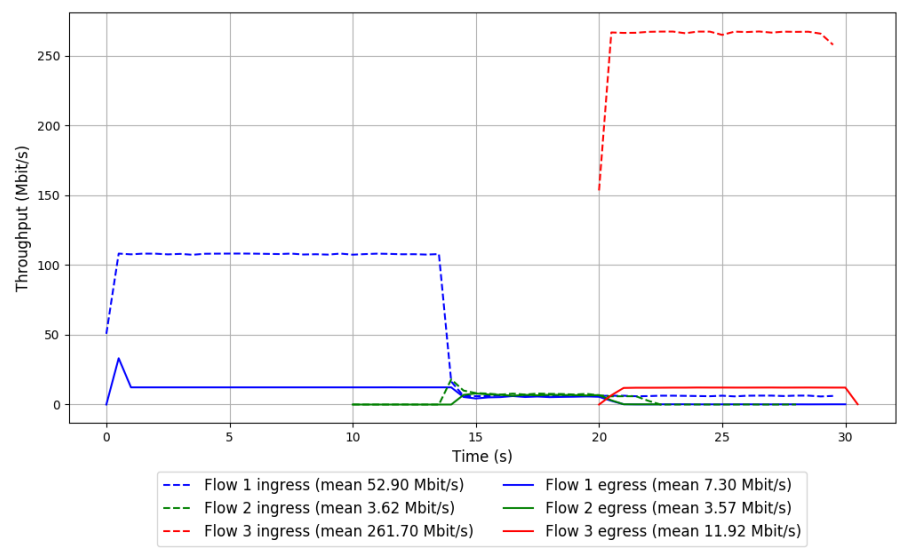
-- Flow 3:

Average throughput: 11.92 Mbit/s

95th percentile per-packet one-way delay: 25.940 ms

Loss rate: 95.45%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-07-18 01:18:18

End at: 2019-07-18 01:18:48

Local clock offset: 0.272 ms

Remote clock offset: -2.87 ms

# Below is generated by plot.py at 2019-07-18 01:53:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 12.68 Mbit/s

95th percentile per-packet one-way delay: 26.009 ms

Loss rate: 91.03%

-- Flow 1:

Average throughput: 7.38 Mbit/s

95th percentile per-packet one-way delay: 26.344 ms

Loss rate: 86.14%

-- Flow 2:

Average throughput: 4.08 Mbit/s

95th percentile per-packet one-way delay: 26.024 ms

Loss rate: 17.88%

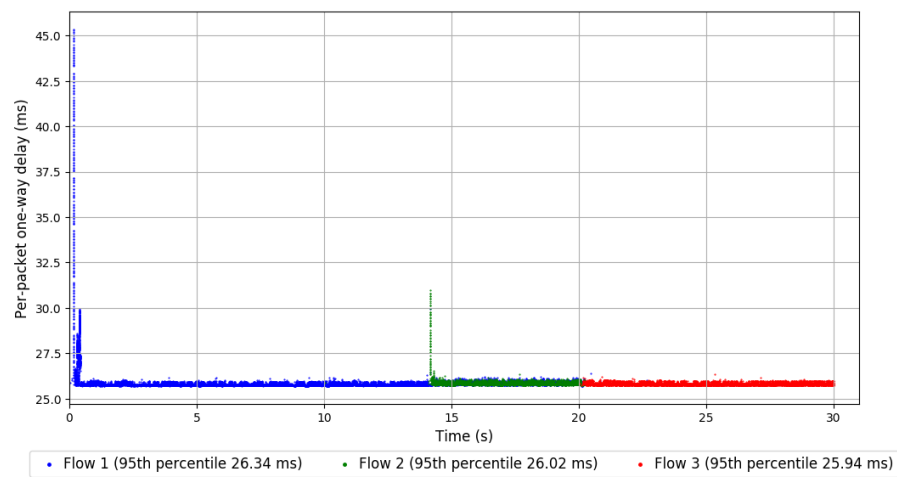
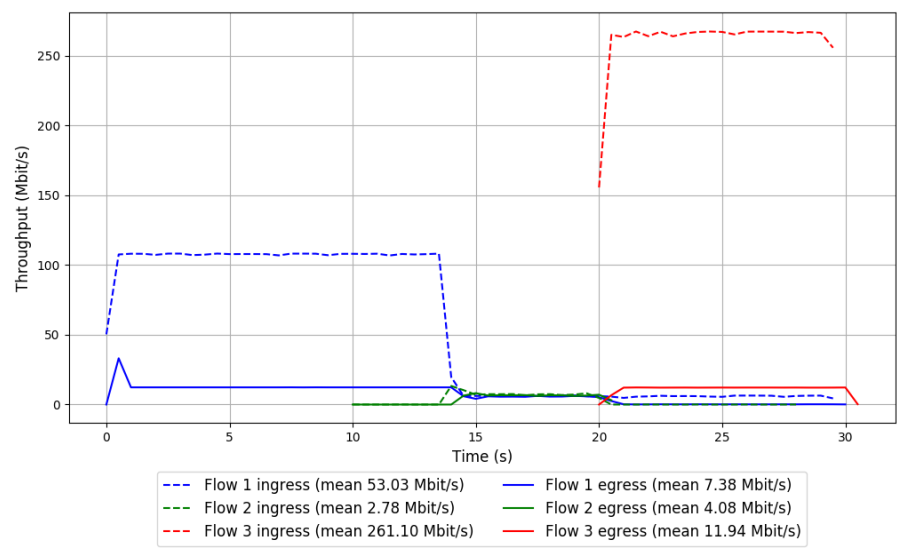
-- Flow 3:

Average throughput: 11.94 Mbit/s

95th percentile per-packet one-way delay: 25.944 ms

Loss rate: 95.43%

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

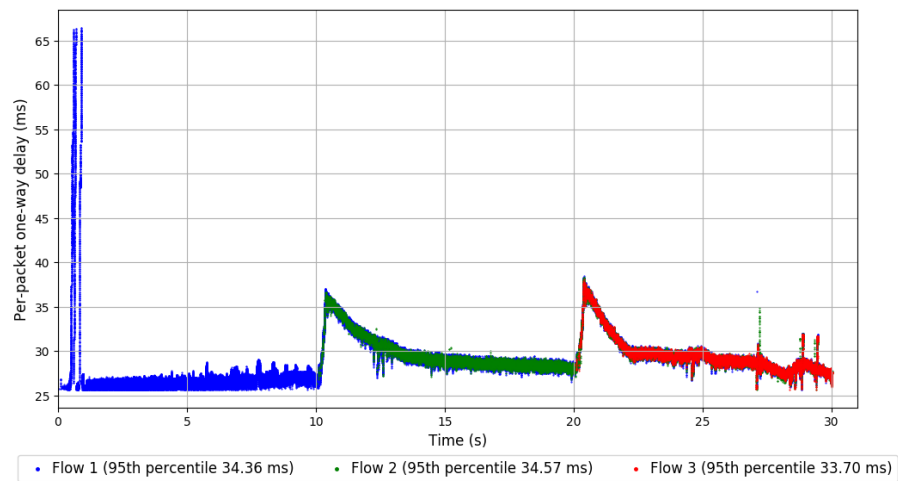
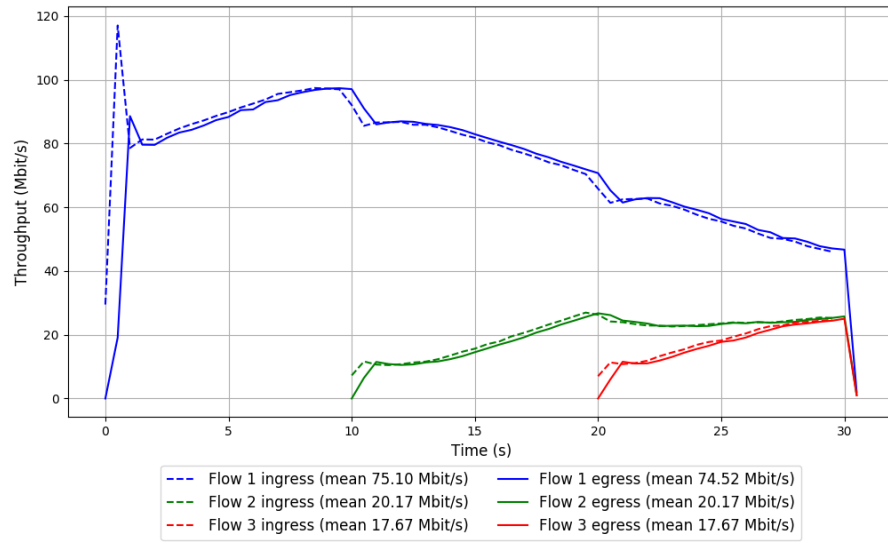


Run 1: Statistics of TCP Vegas

Start at: 2019-07-17 23:09:47  
End at: 2019-07-17 23:10:17  
Local clock offset: -3.677 ms  
Remote clock offset: -5.159 ms

# Below is generated by plot.py at 2019-07-18 01:54:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.84 Mbit/s  
95th percentile per-packet one-way delay: 34.360 ms  
Loss rate: 0.61%  
-- Flow 1:  
Average throughput: 74.52 Mbit/s  
95th percentile per-packet one-way delay: 34.357 ms  
Loss rate: 0.77%  
-- Flow 2:  
Average throughput: 20.17 Mbit/s  
95th percentile per-packet one-way delay: 34.569 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 17.67 Mbit/s  
95th percentile per-packet one-way delay: 33.699 ms  
Loss rate: 0.00%

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

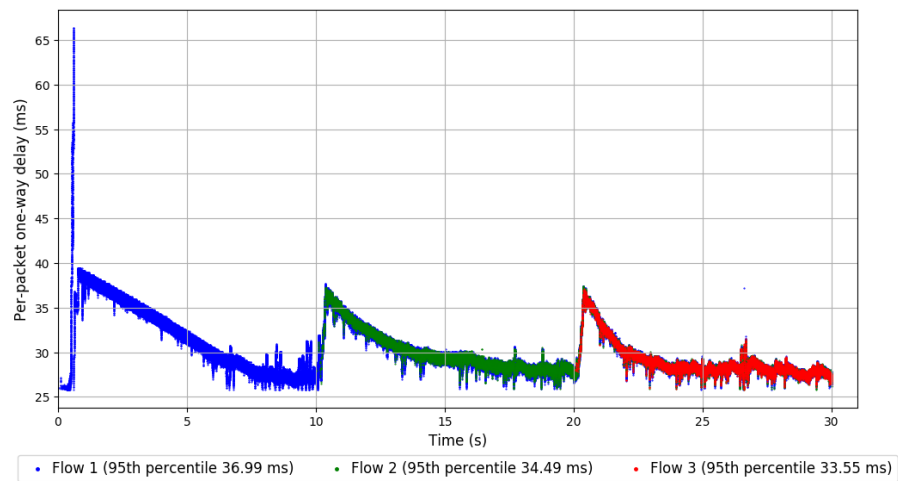
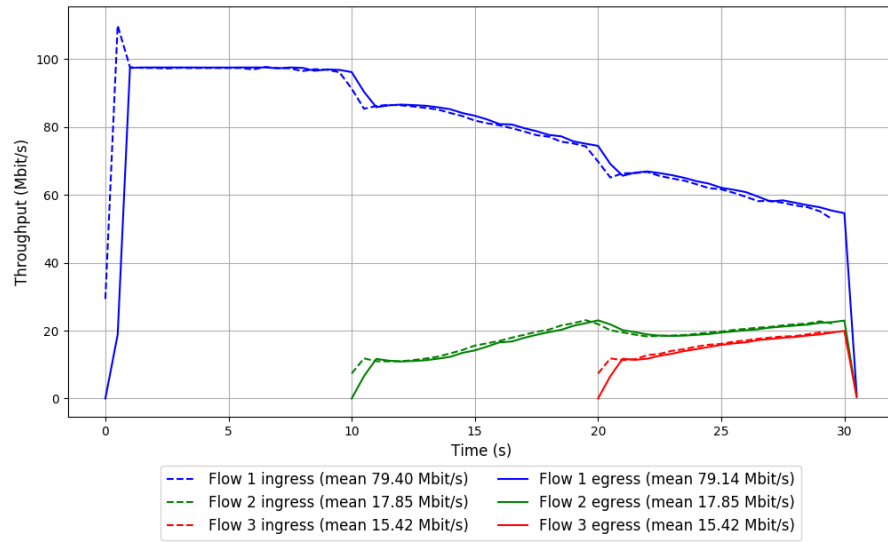


Run 2: Statistics of TCP Vegas

Start at: 2019-07-17 23:43:18  
End at: 2019-07-17 23:43:48  
Local clock offset: -0.891 ms  
Remote clock offset: -4.574 ms

# Below is generated by plot.py at 2019-07-18 01:54:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.16 Mbit/s  
95th percentile per-packet one-way delay: 36.716 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 79.14 Mbit/s  
95th percentile per-packet one-way delay: 36.989 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 17.85 Mbit/s  
95th percentile per-packet one-way delay: 34.487 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 15.42 Mbit/s  
95th percentile per-packet one-way delay: 33.545 ms  
Loss rate: 0.00%

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

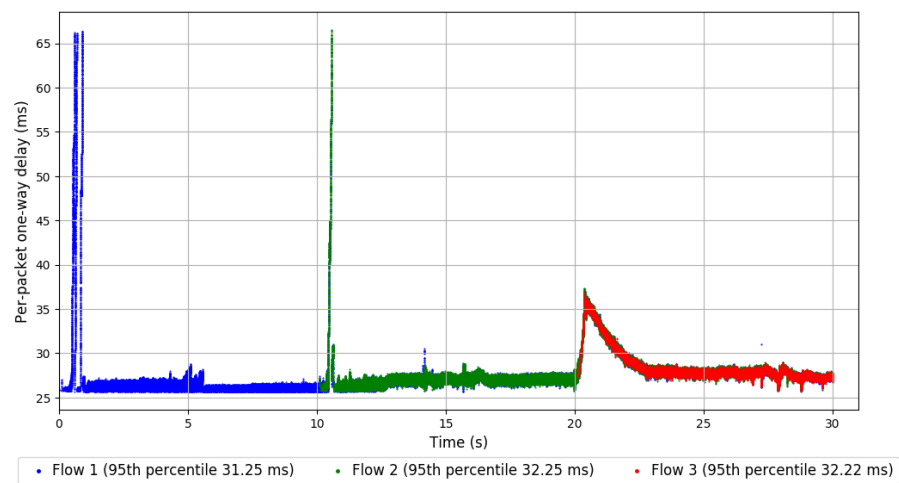
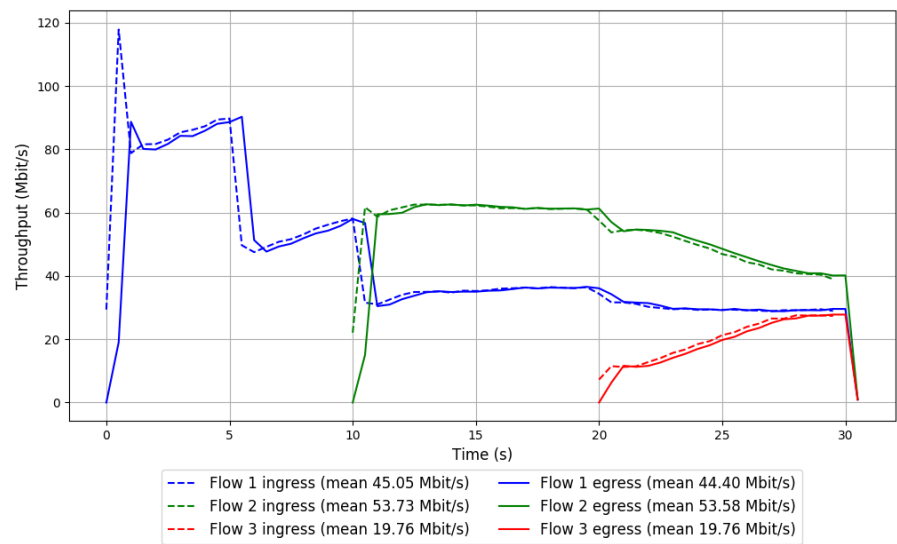


Run 3: Statistics of TCP Vegas

Start at: 2019-07-18 00:15:23  
End at: 2019-07-18 00:15:53  
Local clock offset: -0.285 ms  
Remote clock offset: -3.583 ms

# Below is generated by plot.py at 2019-07-18 01:54:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.67 Mbit/s  
95th percentile per-packet one-way delay: 31.911 ms  
Loss rate: 0.85%  
-- Flow 1:  
Average throughput: 44.40 Mbit/s  
95th percentile per-packet one-way delay: 31.245 ms  
Loss rate: 1.44%  
-- Flow 2:  
Average throughput: 53.58 Mbit/s  
95th percentile per-packet one-way delay: 32.254 ms  
Loss rate: 0.27%  
-- Flow 3:  
Average throughput: 19.76 Mbit/s  
95th percentile per-packet one-way delay: 32.217 ms  
Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link

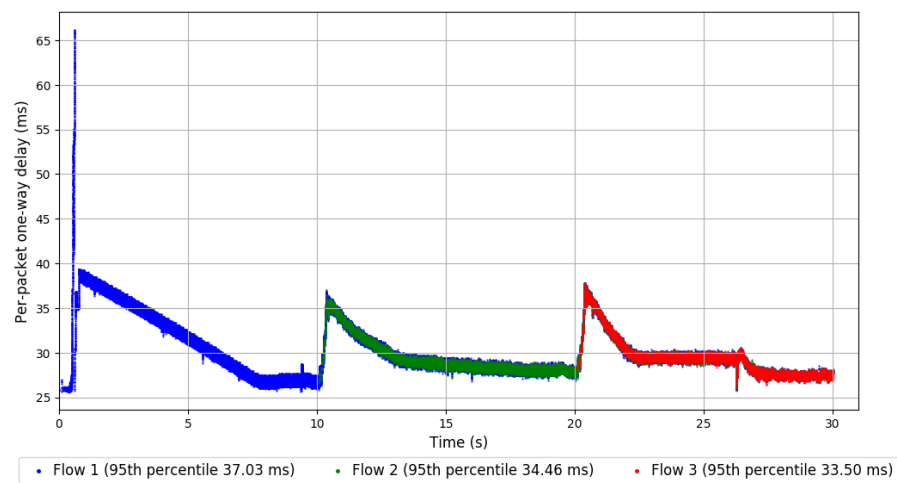
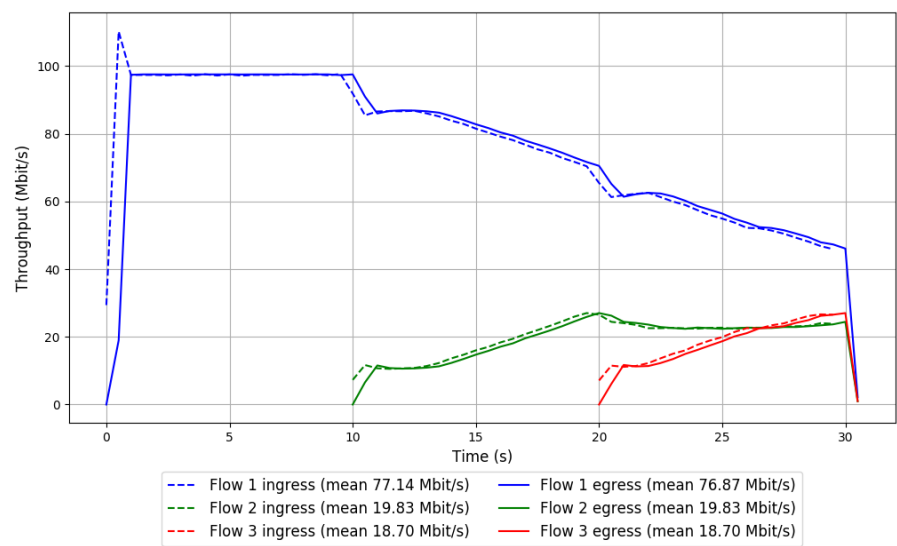


Run 4: Statistics of TCP Vegas

Start at: 2019-07-18 00:48:54  
End at: 2019-07-18 00:49:24  
Local clock offset: 0.148 ms  
Remote clock offset: -2.568 ms

# Below is generated by plot.py at 2019-07-18 01:54:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.30 Mbit/s  
95th percentile per-packet one-way delay: 36.727 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 76.87 Mbit/s  
95th percentile per-packet one-way delay: 37.027 ms  
Loss rate: 0.34%  
-- Flow 2:  
Average throughput: 19.83 Mbit/s  
95th percentile per-packet one-way delay: 34.461 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 18.70 Mbit/s  
95th percentile per-packet one-way delay: 33.499 ms  
Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link

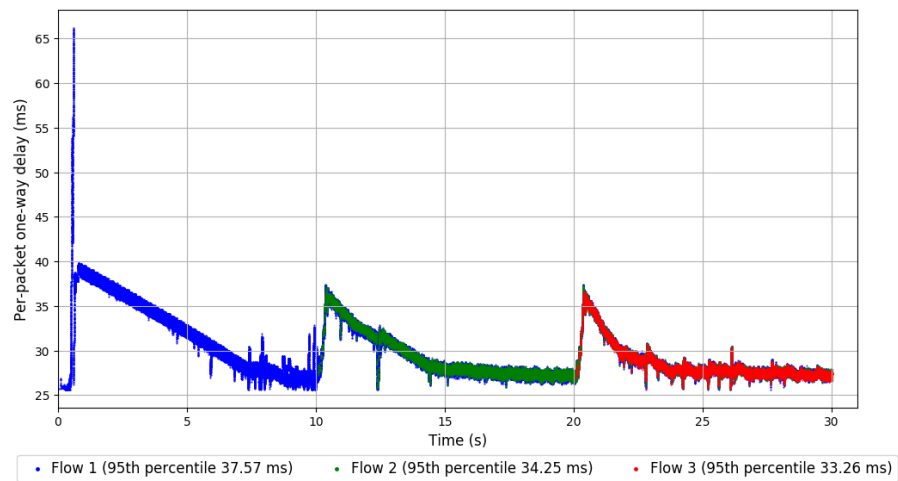
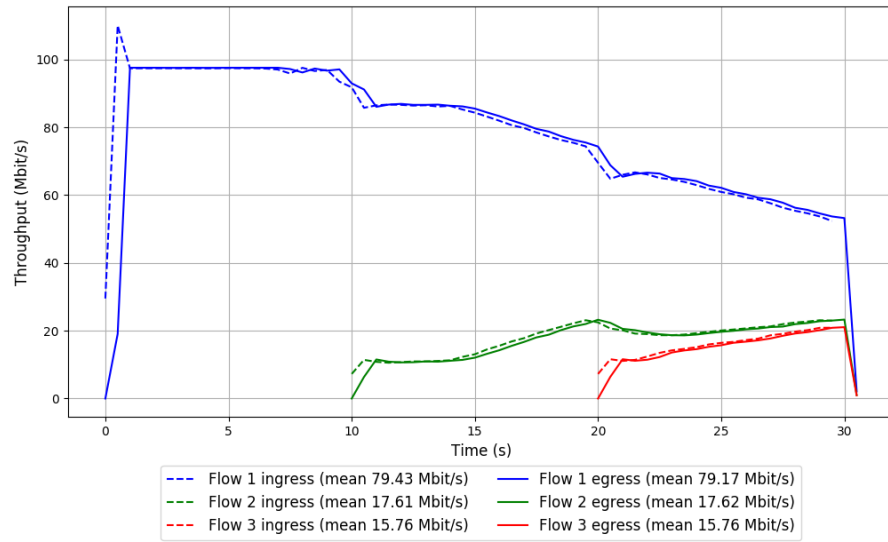


Run 5: Statistics of TCP Vegas

Start at: 2019-07-18 01:23:41  
End at: 2019-07-18 01:24:11  
Local clock offset: 0.374 ms  
Remote clock offset: -2.905 ms

# Below is generated by plot.py at 2019-07-18 01:54:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.14 Mbit/s  
95th percentile per-packet one-way delay: 37.116 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 79.17 Mbit/s  
95th percentile per-packet one-way delay: 37.567 ms  
Loss rate: 0.32%  
-- Flow 2:  
Average throughput: 17.62 Mbit/s  
95th percentile per-packet one-way delay: 34.253 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 15.76 Mbit/s  
95th percentile per-packet one-way delay: 33.256 ms  
Loss rate: 0.00%

# Run 5: Report of TCP Vegas — Data Link

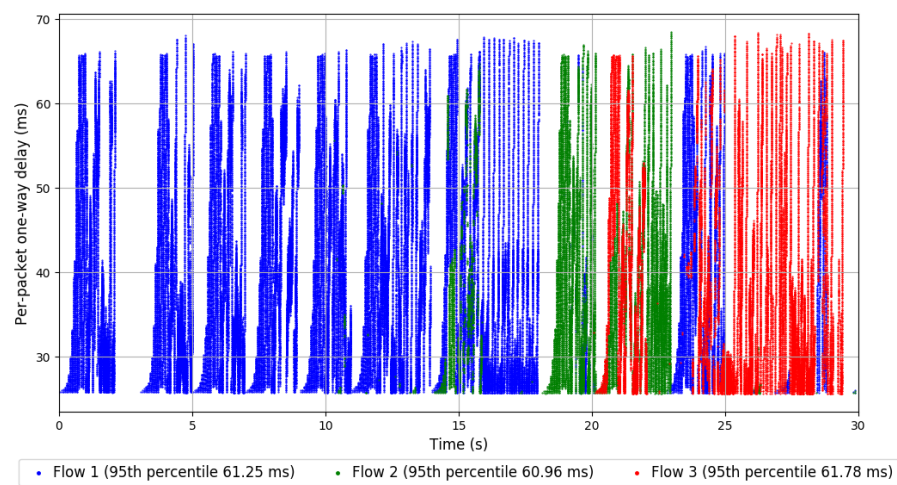
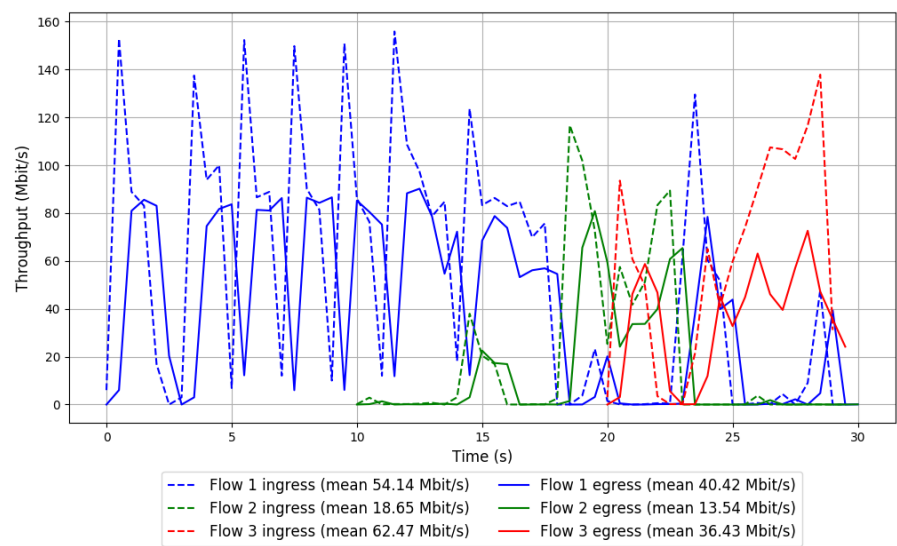


Run 1: Statistics of Verus

Start at: 2019-07-17 22:59:24  
End at: 2019-07-17 22:59:54  
Local clock offset: -2.312 ms  
Remote clock offset: -5.142 ms

# Below is generated by plot.py at 2019-07-18 01:54:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 60.67 Mbit/s  
95th percentile per-packet one-way delay: 61.292 ms  
Loss rate: 29.34%  
-- Flow 1:  
Average throughput: 40.42 Mbit/s  
95th percentile per-packet one-way delay: 61.246 ms  
Loss rate: 25.35%  
-- Flow 2:  
Average throughput: 13.54 Mbit/s  
95th percentile per-packet one-way delay: 60.964 ms  
Loss rate: 27.47%  
-- Flow 3:  
Average throughput: 36.43 Mbit/s  
95th percentile per-packet one-way delay: 61.784 ms  
Loss rate: 41.58%

Run 1: Report of Verus — Data Link

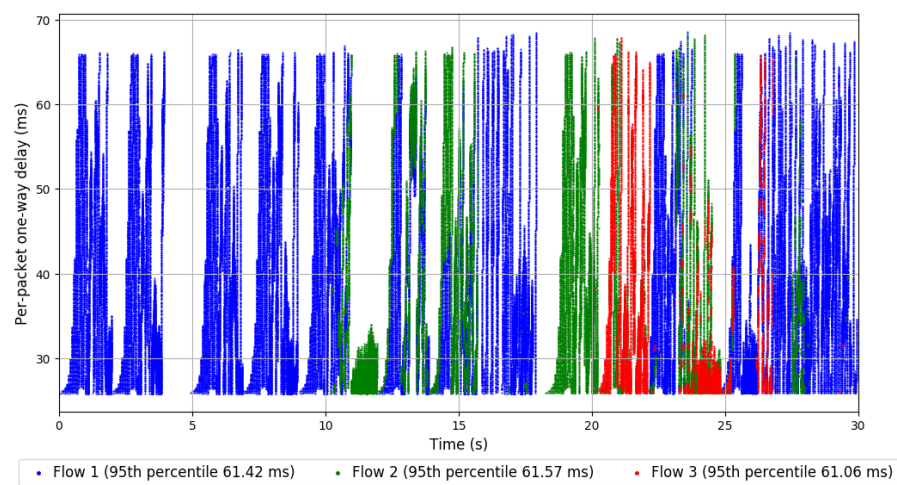
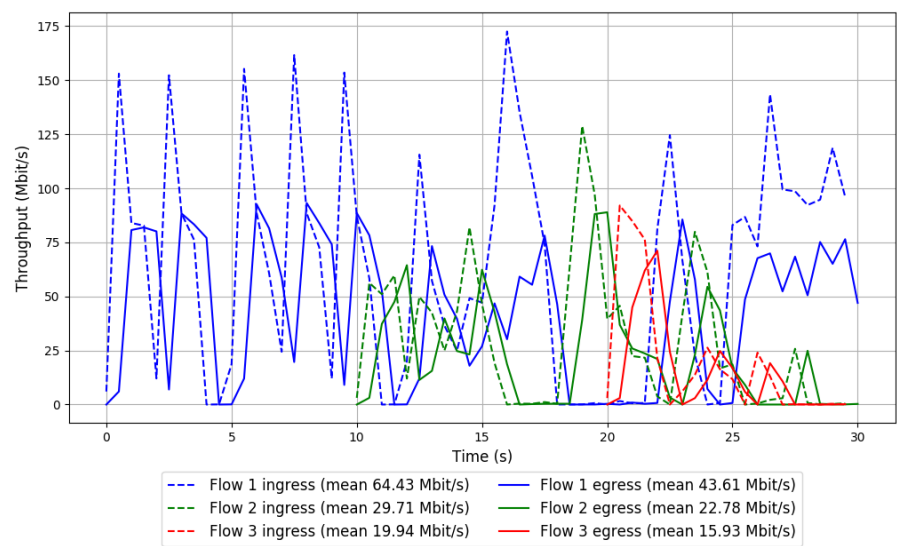


Run 2: Statistics of Verus

Start at: 2019-07-17 23:34:03  
End at: 2019-07-17 23:34:33  
Local clock offset: -1.856 ms  
Remote clock offset: -4.867 ms

# Below is generated by plot.py at 2019-07-18 01:54:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 63.49 Mbit/s  
95th percentile per-packet one-way delay: 61.433 ms  
Loss rate: 29.78%  
-- Flow 1:  
Average throughput: 43.61 Mbit/s  
95th percentile per-packet one-way delay: 61.419 ms  
Loss rate: 32.30%  
-- Flow 2:  
Average throughput: 22.78 Mbit/s  
95th percentile per-packet one-way delay: 61.574 ms  
Loss rate: 23.55%  
-- Flow 3:  
Average throughput: 15.93 Mbit/s  
95th percentile per-packet one-way delay: 61.061 ms  
Loss rate: 23.60%

Run 2: Report of Verus — Data Link

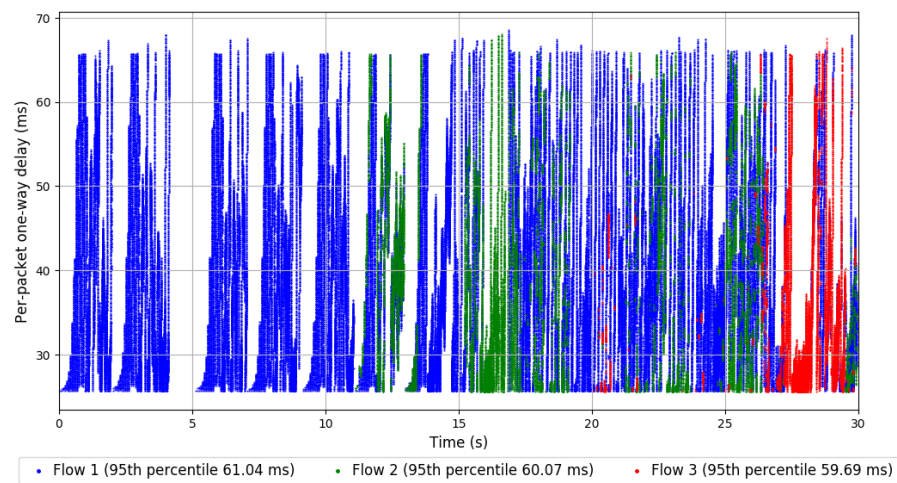
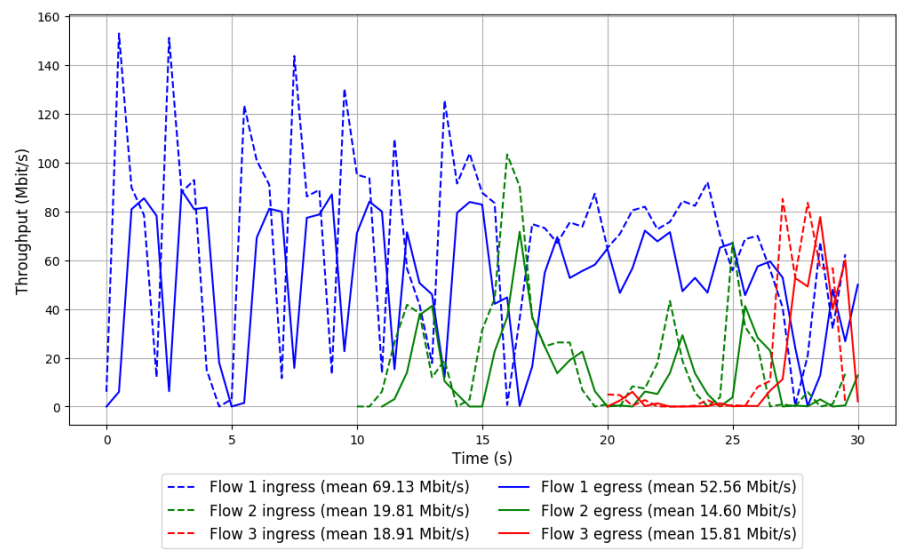


Run 3: Statistics of Verus

Start at: 2019-07-18 00:06:19  
End at: 2019-07-18 00:06:49  
Local clock offset: -0.345 ms  
Remote clock offset: -3.938 ms

# Below is generated by plot.py at 2019-07-18 01:54:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 66.98 Mbit/s  
95th percentile per-packet one-way delay: 60.829 ms  
Loss rate: 24.32%  
-- Flow 1:  
Average throughput: 52.56 Mbit/s  
95th percentile per-packet one-way delay: 61.040 ms  
Loss rate: 23.95%  
-- Flow 2:  
Average throughput: 14.60 Mbit/s  
95th percentile per-packet one-way delay: 60.070 ms  
Loss rate: 30.03%  
-- Flow 3:  
Average throughput: 15.81 Mbit/s  
95th percentile per-packet one-way delay: 59.692 ms  
Loss rate: 16.26%

Run 3: Report of Verus — Data Link

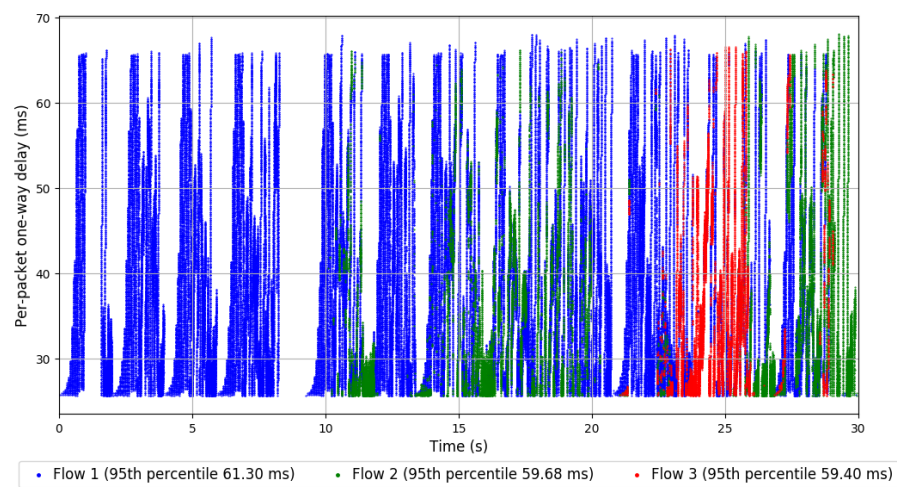
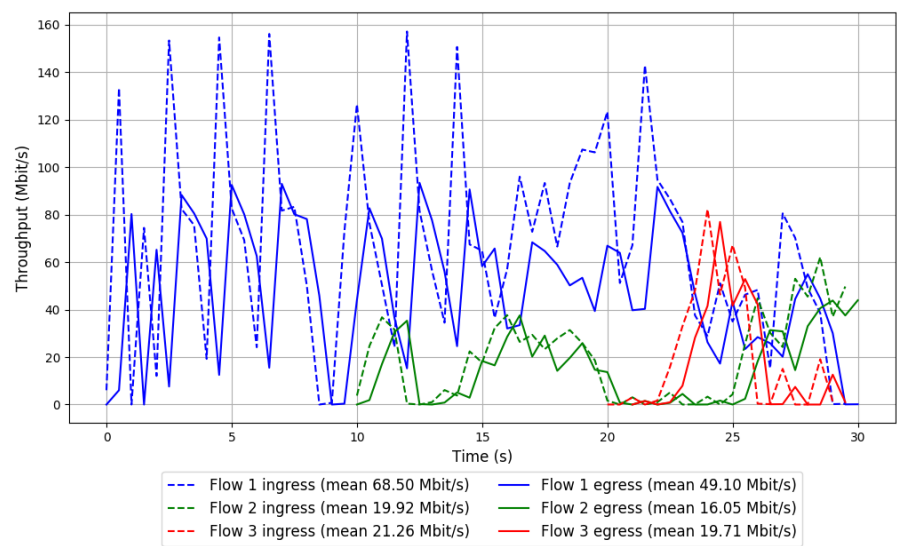


Run 4: Statistics of Verus

Start at: 2019-07-18 00:39:41  
End at: 2019-07-18 00:40:11  
Local clock offset: 0.094 ms  
Remote clock offset: -2.669 ms

# Below is generated by plot.py at 2019-07-18 01:54:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 64.99 Mbit/s  
95th percentile per-packet one-way delay: 61.011 ms  
Loss rate: 26.22%  
-- Flow 1:  
Average throughput: 49.10 Mbit/s  
95th percentile per-packet one-way delay: 61.298 ms  
Loss rate: 28.32%  
-- Flow 2:  
Average throughput: 16.05 Mbit/s  
95th percentile per-packet one-way delay: 59.679 ms  
Loss rate: 19.49%  
-- Flow 3:  
Average throughput: 19.71 Mbit/s  
95th percentile per-packet one-way delay: 59.395 ms  
Loss rate: 17.62%

Run 4: Report of Verus — Data Link

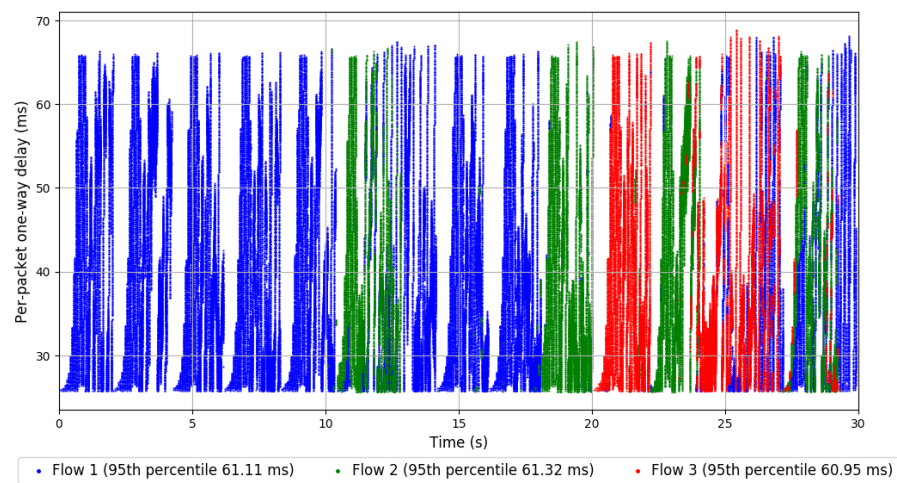
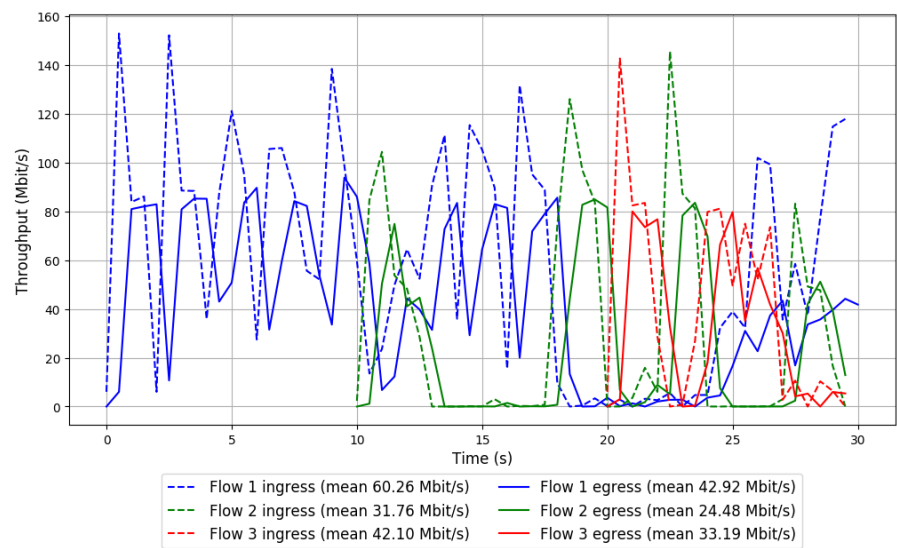


Run 5: Statistics of Verus

Start at: 2019-07-18 01:14:10  
End at: 2019-07-18 01:14:40  
Local clock offset: 0.224 ms  
Remote clock offset: -2.803 ms

# Below is generated by plot.py at 2019-07-18 01:54:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.94 Mbit/s  
95th percentile per-packet one-way delay: 61.127 ms  
Loss rate: 27.17%  
-- Flow 1:  
Average throughput: 42.92 Mbit/s  
95th percentile per-packet one-way delay: 61.110 ms  
Loss rate: 28.73%  
-- Flow 2:  
Average throughput: 24.48 Mbit/s  
95th percentile per-packet one-way delay: 61.322 ms  
Loss rate: 24.51%  
-- Flow 3:  
Average throughput: 33.19 Mbit/s  
95th percentile per-packet one-way delay: 60.946 ms  
Loss rate: 24.32%

Run 5: Report of Verus — Data Link

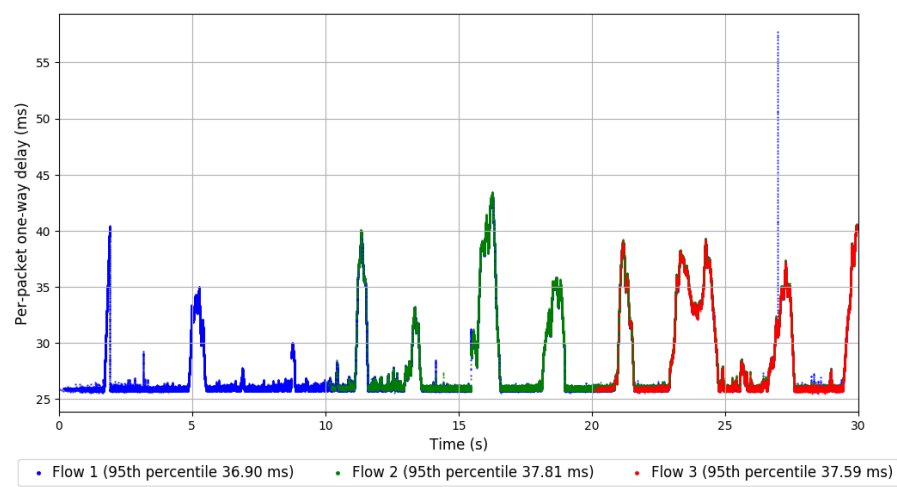
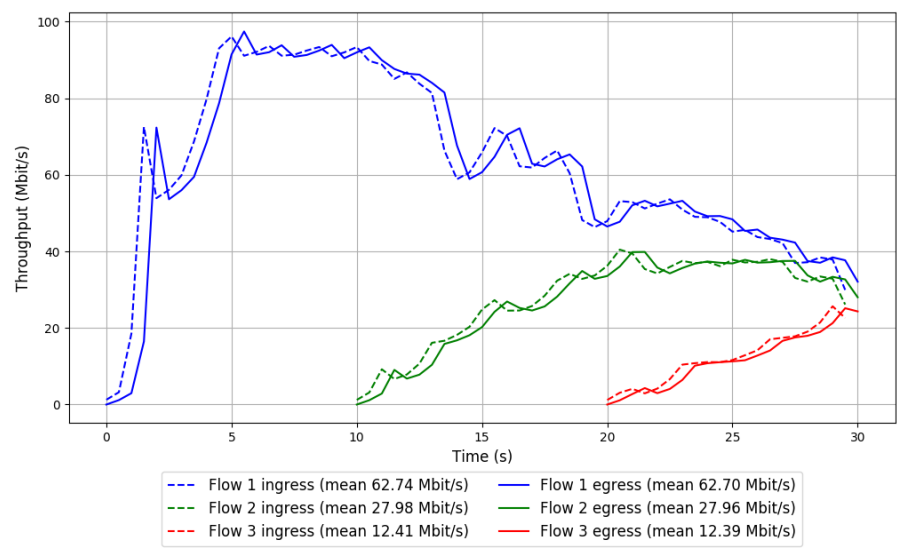


Run 1: Statistics of PCC-Vivace

Start at: 2019-07-17 23:20:13  
End at: 2019-07-17 23:20:43  
Local clock offset: -4.768 ms  
Remote clock offset: -5.156 ms

# Below is generated by plot.py at 2019-07-18 01:55:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.40 Mbit/s  
95th percentile per-packet one-way delay: 37.257 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 62.70 Mbit/s  
95th percentile per-packet one-way delay: 36.901 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 27.96 Mbit/s  
95th percentile per-packet one-way delay: 37.814 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 12.39 Mbit/s  
95th percentile per-packet one-way delay: 37.585 ms  
Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link

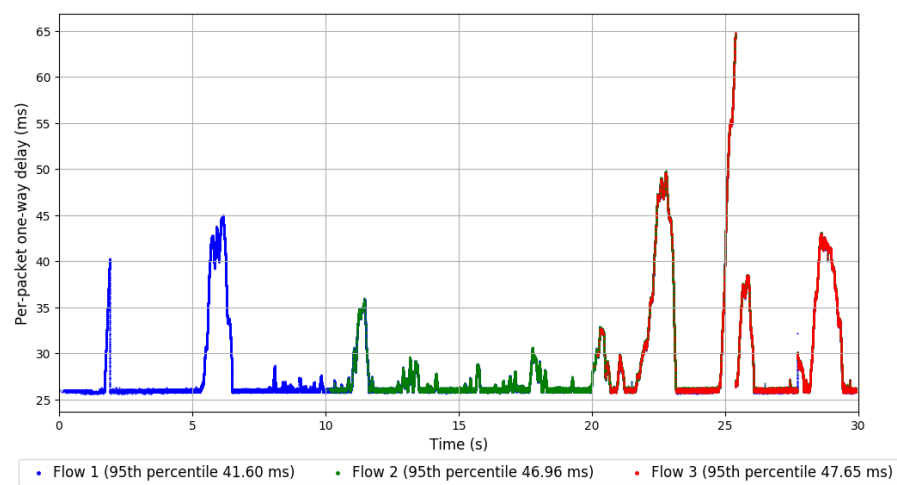
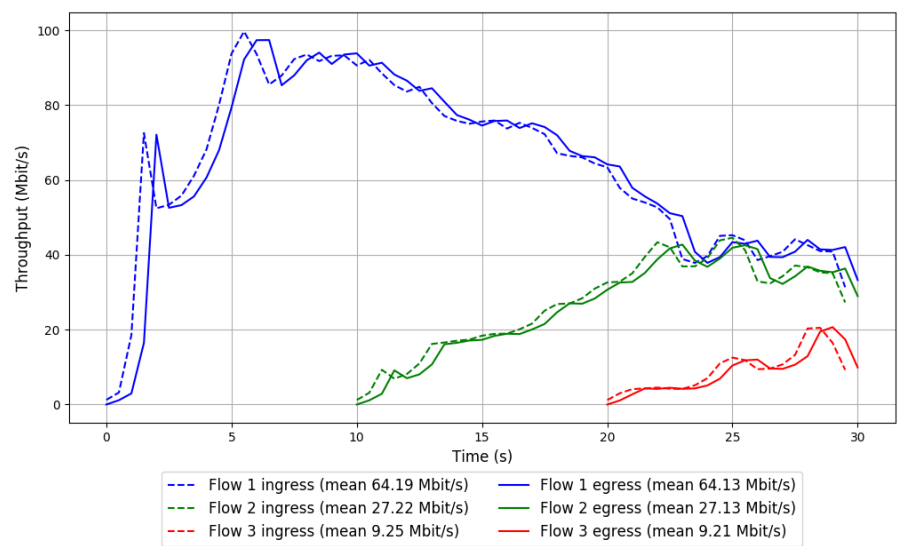


Run 2: Statistics of PCC-Vivace

Start at: 2019-07-17 23:52:20  
End at: 2019-07-17 23:52:50  
Local clock offset: -0.777 ms  
Remote clock offset: -4.359 ms

# Below is generated by plot.py at 2019-07-18 01:55:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.22 Mbit/s  
95th percentile per-packet one-way delay: 42.435 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 64.13 Mbit/s  
95th percentile per-packet one-way delay: 41.596 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 27.13 Mbit/s  
95th percentile per-packet one-way delay: 46.962 ms  
Loss rate: 0.31%  
-- Flow 3:  
Average throughput: 9.21 Mbit/s  
95th percentile per-packet one-way delay: 47.651 ms  
Loss rate: 0.52%

Run 2: Report of PCC-Vivace — Data Link

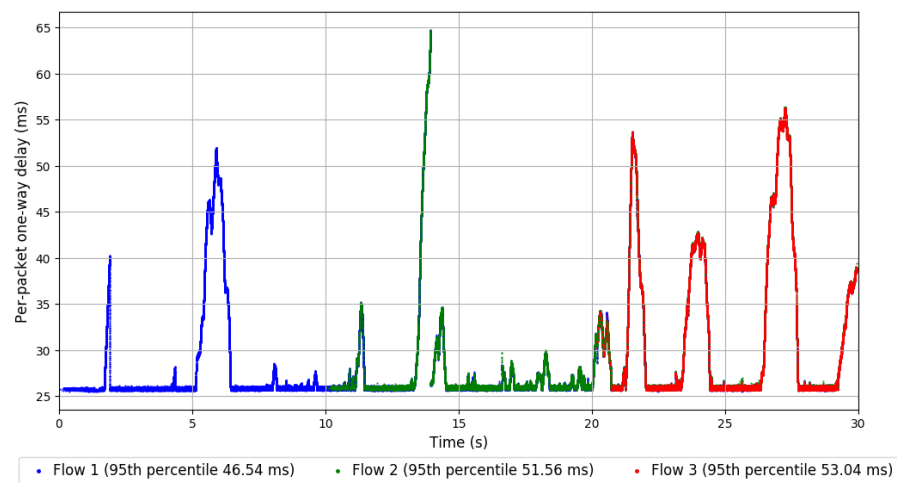
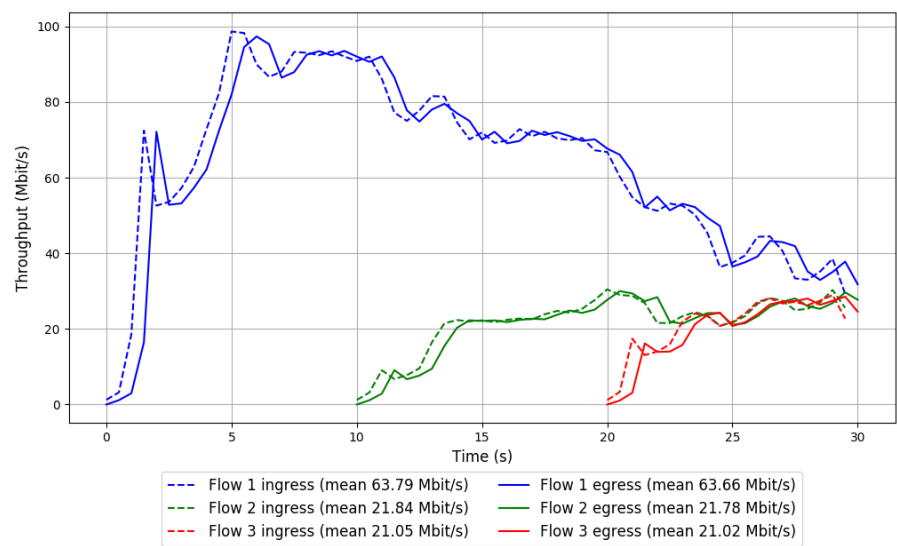


Run 3: Statistics of PCC-Vivace

Start at: 2019-07-18 00:24:56  
End at: 2019-07-18 00:25:26  
Local clock offset: -0.252 ms  
Remote clock offset: -3.174 ms

# Below is generated by plot.py at 2019-07-18 01:55:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.10 Mbit/s  
95th percentile per-packet one-way delay: 48.171 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 63.66 Mbit/s  
95th percentile per-packet one-way delay: 46.536 ms  
Loss rate: 0.16%  
-- Flow 2:  
Average throughput: 21.78 Mbit/s  
95th percentile per-packet one-way delay: 51.564 ms  
Loss rate: 0.18%  
-- Flow 3:  
Average throughput: 21.02 Mbit/s  
95th percentile per-packet one-way delay: 53.042 ms  
Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link

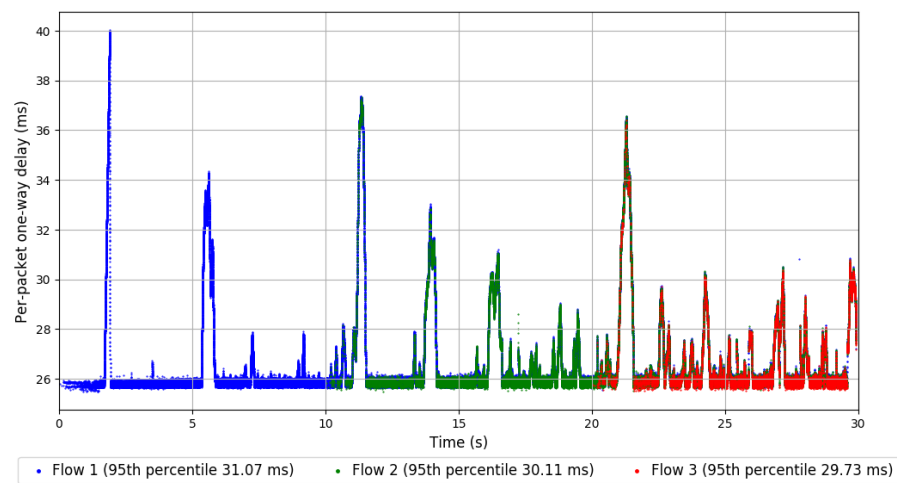
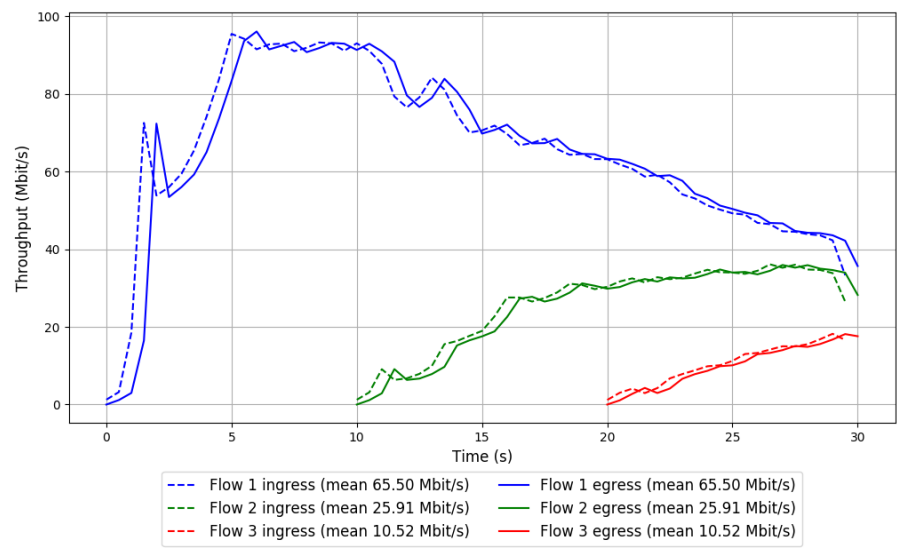


Run 4: Statistics of PCC-Vivace

Start at: 2019-07-18 00:58:31  
End at: 2019-07-18 00:59:01  
Local clock offset: 0.202 ms  
Remote clock offset: -2.731 ms

# Below is generated by plot.py at 2019-07-18 01:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.20 Mbit/s  
95th percentile per-packet one-way delay: 30.744 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 65.50 Mbit/s  
95th percentile per-packet one-way delay: 31.068 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 25.91 Mbit/s  
95th percentile per-packet one-way delay: 30.113 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 10.52 Mbit/s  
95th percentile per-packet one-way delay: 29.728 ms  
Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link

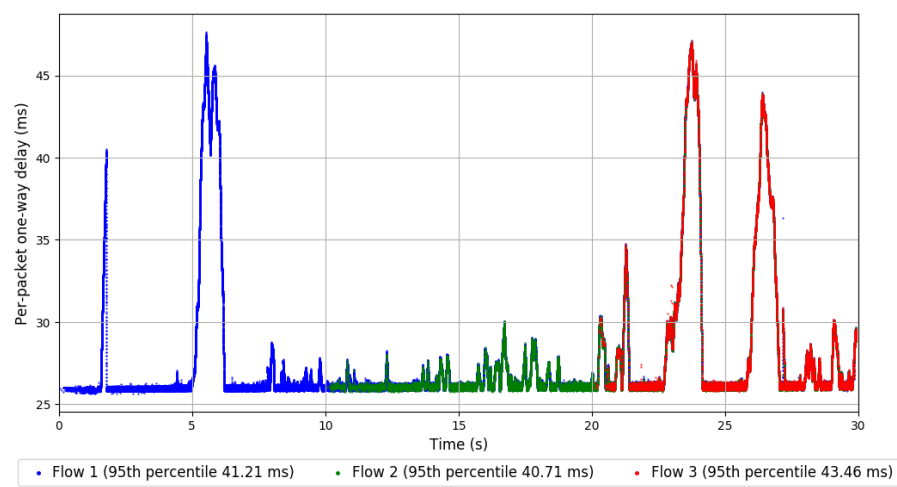
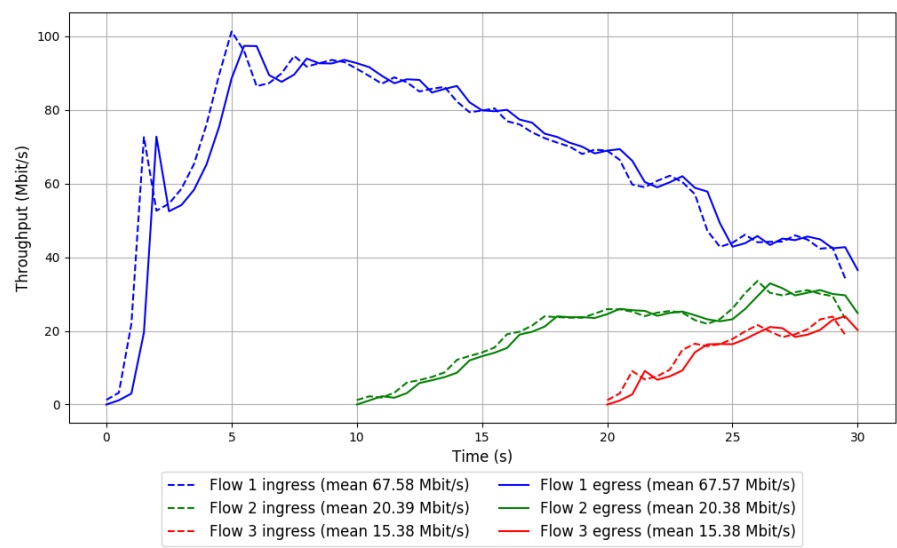


Run 5: Statistics of PCC-Vivace

Start at: 2019-07-18 01:33:54  
End at: 2019-07-18 01:34:24  
Local clock offset: 2.527 ms  
Remote clock offset: -2.892 ms

# Below is generated by plot.py at 2019-07-18 01:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.20 Mbit/s  
95th percentile per-packet one-way delay: 41.568 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 67.57 Mbit/s  
95th percentile per-packet one-way delay: 41.209 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 20.38 Mbit/s  
95th percentile per-packet one-way delay: 40.709 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 15.38 Mbit/s  
95th percentile per-packet one-way delay: 43.459 ms  
Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link

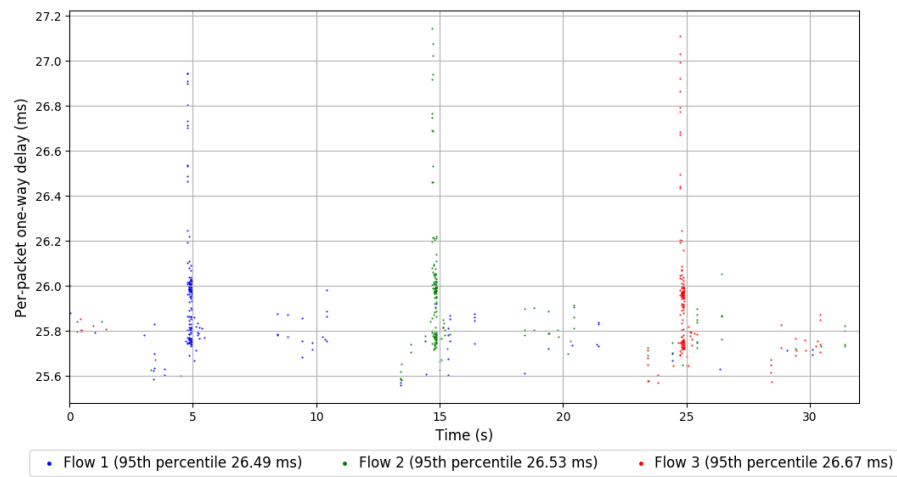
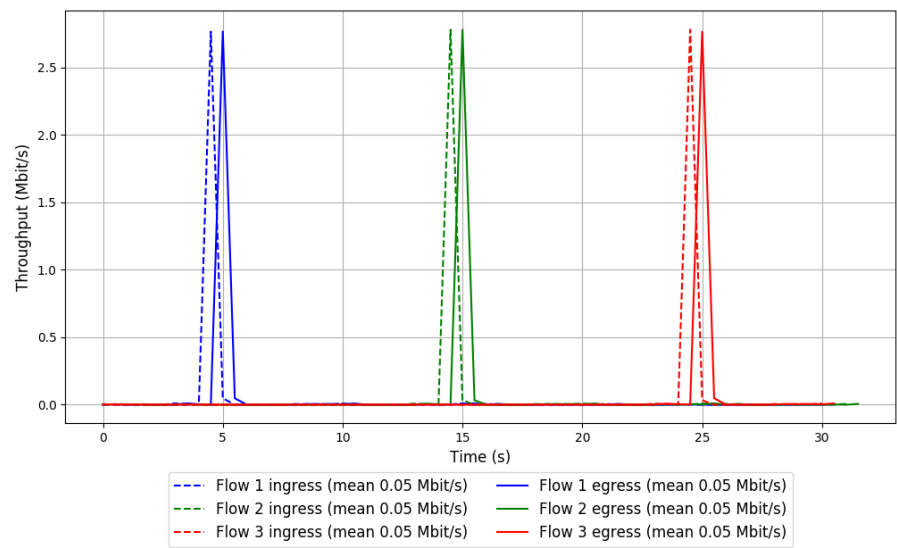


Run 1: Statistics of WebRTC media

Start at: 2019-07-17 23:17:32  
End at: 2019-07-17 23:18:02  
Local clock offset: -4.525 ms  
Remote clock offset: -5.203 ms

# Below is generated by plot.py at 2019-07-18 01:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 26.532 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 26.489 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 26.532 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 26.674 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

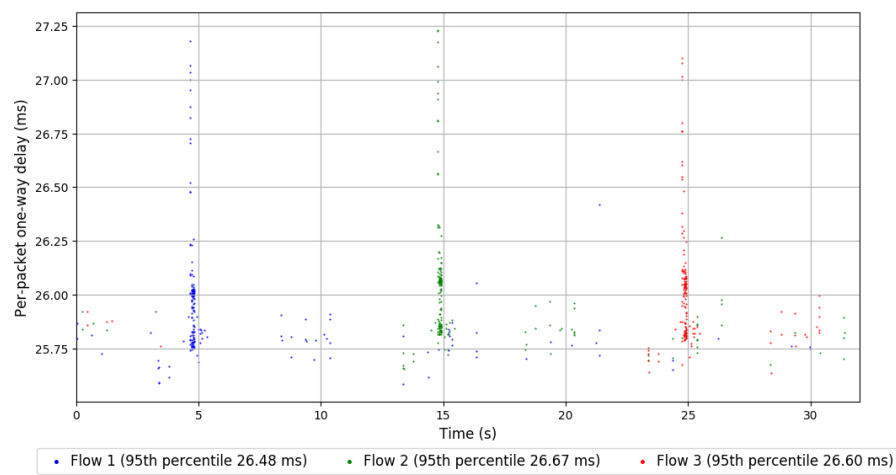
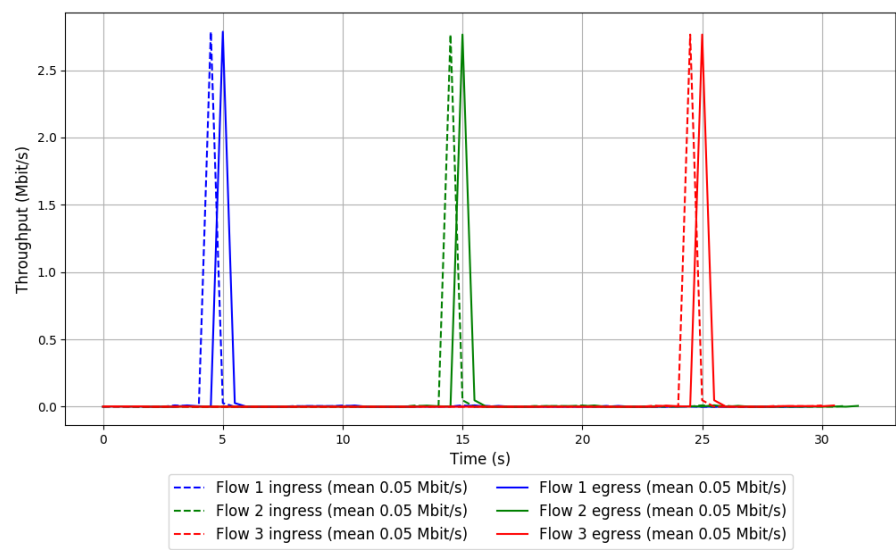


Run 2: Statistics of WebRTC media

Start at: 2019-07-17 23:49:54  
End at: 2019-07-17 23:50:24  
Local clock offset: -0.733 ms  
Remote clock offset: -4.447 ms

# Below is generated by plot.py at 2019-07-18 01:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 26.603 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 26.477 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 26.666 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 26.603 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

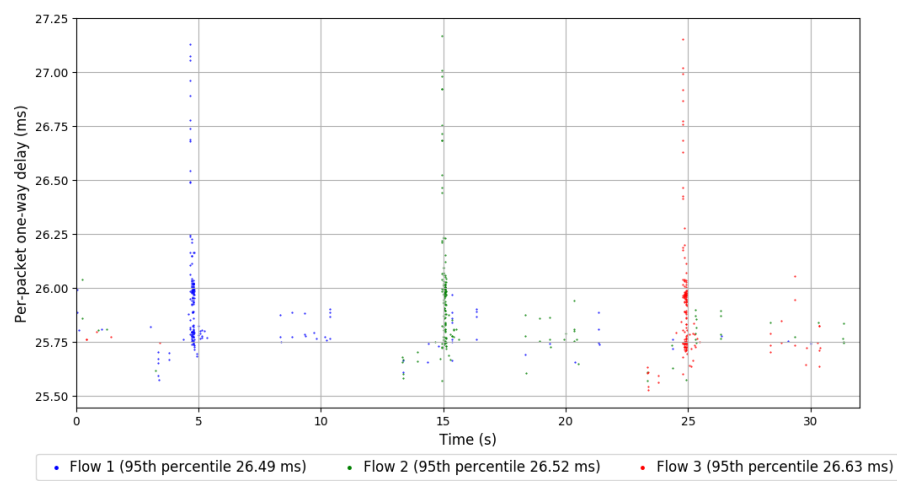
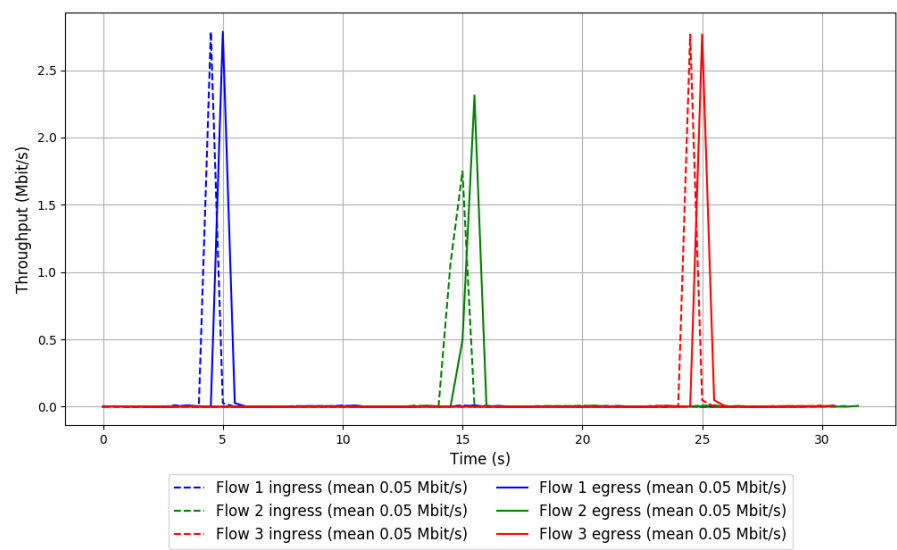


Run 3: Statistics of WebRTC media

Start at: 2019-07-18 00:22:30  
End at: 2019-07-18 00:23:00  
Local clock offset: -0.266 ms  
Remote clock offset: -3.202 ms

# Below is generated by plot.py at 2019-07-18 01:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 26.544 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 26.491 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 26.525 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 26.630 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

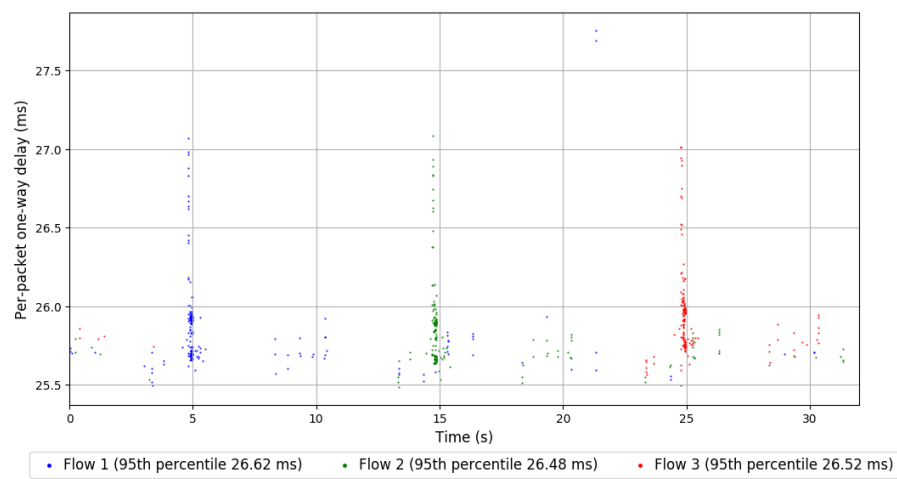
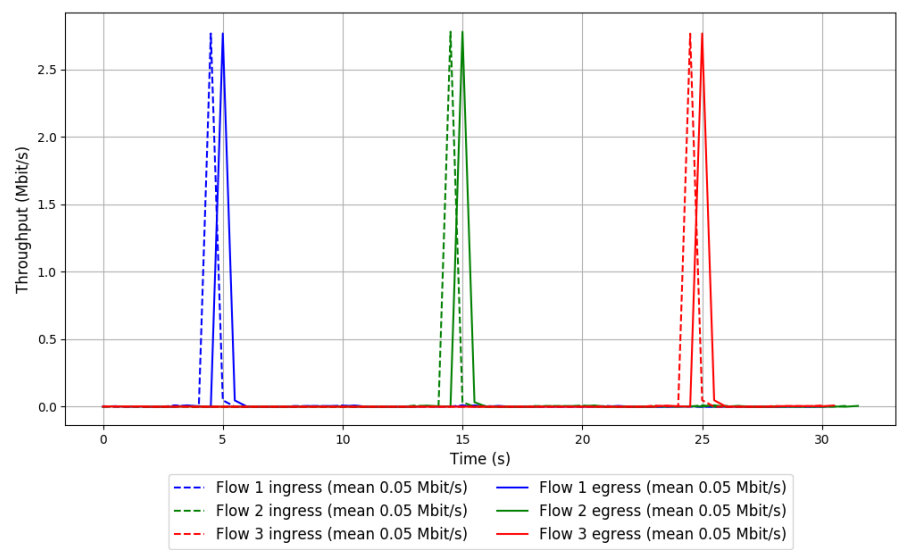


Run 4: Statistics of WebRTC media

Start at: 2019-07-18 00:55:45  
End at: 2019-07-18 00:56:15  
Local clock offset: 0.199 ms  
Remote clock offset: -2.648 ms

# Below is generated by plot.py at 2019-07-18 01:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 26.606 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 26.619 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 26.479 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 26.522 ms  
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-07-18 01:31:09  
End at: 2019-07-18 01:31:39  
Local clock offset: 1.996 ms  
Remote clock offset: -2.849 ms

# Below is generated by plot.py at 2019-07-18 01:55:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 26.694 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 26.648 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 26.694 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 26.655 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

