

## Pantheon Report

Generated at 2020-02-18 03:55:48 (UTC).

Data path: AWS India 1 on `ens5` (*local*) → India 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 `nets.org.sg` and have been applied to correct the timestamps in logs.

### System info:

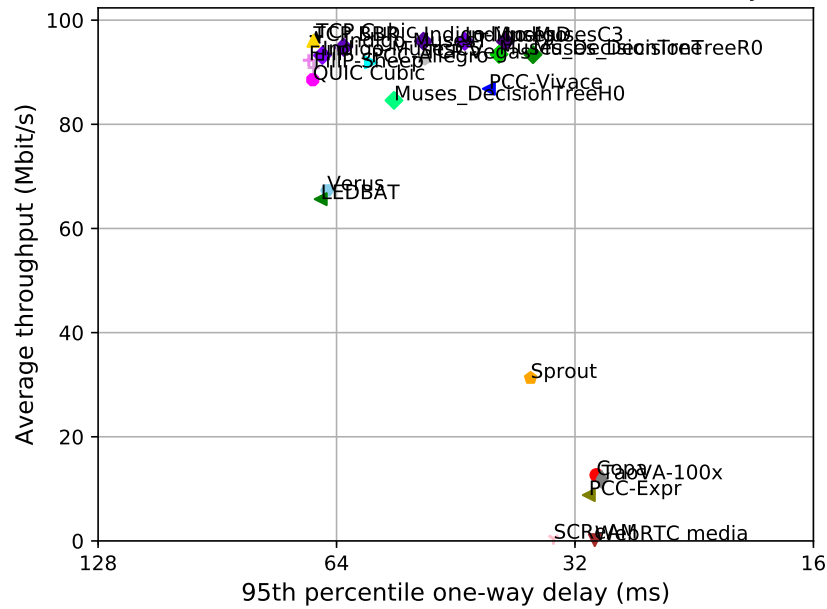
```
Linux 4.15.0-1056-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

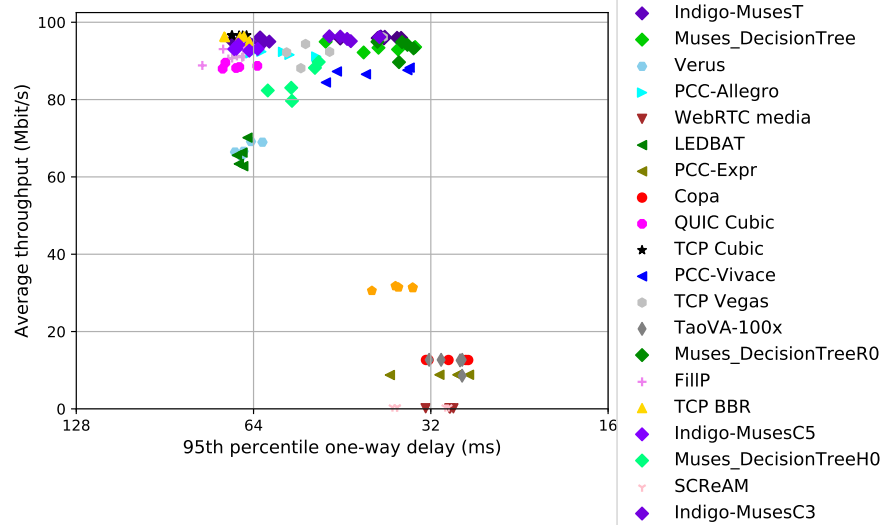
```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d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



test from AWS India 1 to India, 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	60.89	32.80	40.03	66.69	70.91	68.65	6.57	11.08	13.04
Copa	5	8.89	5.64	0.01	29.92	29.84	29.67	72.19	76.02	89.02
TCP Cubic	5	71.71	25.73	23.35	67.14	69.90	69.14	0.76	0.68	0.81
FillP	5	55.07	41.26	29.75	66.29	70.80	70.67	28.66	46.63	55.56
FillP-Sheep	5	55.99	40.98	23.24	67.00	69.71	67.96	7.83	14.52	19.03
Indigo	5	65.69	31.04	29.45	38.65	38.18	40.42	0.00	0.01	0.05
Indigo-MusesC3	5	52.96	46.93	42.39	41.83	45.21	47.79	0.35	0.53	0.82
Indigo-MusesC5	5	56.26	51.24	12.58	64.91	67.87	68.95	6.99	13.46	27.02
Indigo-MusesD	5	64.61	35.52	28.54	49.73	48.83	44.69	3.09	4.83	6.20
Indigo-MusesT	5	60.94	45.53	14.62	59.92	64.09	65.29	5.72	12.26	21.05
LEDBAT	5	42.73	22.55	23.91	66.27	68.03	67.24	0.31	0.44	0.43
Muses_DecisionTree	5	60.39	30.50	39.48	38.97	40.76	45.22	0.01	0.00	0.08
Muses_DecisionTreeH0	5	59.48	31.99	12.05	52.21	57.38	53.72	2.56	5.21	4.74
Muses_DecisionTreeR0	5	55.07	41.08	34.13	34.98	37.13	40.17	0.02	0.19	0.50
PCC-Allegro	5	81.90	11.55	7.01	57.46	59.84	59.10	1.32	1.06	1.13
PCC-Expr	5	0.04	10.03	6.45	30.69	30.35	30.78	85.71	58.83	41.46
QUIC Cubic	5	64.61	27.10	18.27	68.48	68.77	68.34	2.45	2.41	2.05
SCReAM	5	0.22	0.22	0.22	31.13	33.71	31.88	0.00	0.00	0.00
Sprout	5	15.70	15.84	15.27	36.37	35.79	36.92	0.04	0.03	0.04
TaoVA-100x	5	5.27	8.19	3.34	30.26	29.04	29.16	88.76	75.66	53.06
TCP Vegas	5	64.29	28.86	27.42	49.27	42.97	41.78	0.48	0.00	0.00
Verus	5	43.69	28.78	15.40	65.17	65.89	67.75	37.81	39.05	43.18
PCC-Vivace	5	63.87	27.30	14.53	40.18	43.06	41.25	0.00	0.00	0.00
WebRTC media	5	0.05	0.07	0.20	29.86	30.16	29.51	0.00	0.00	0.00

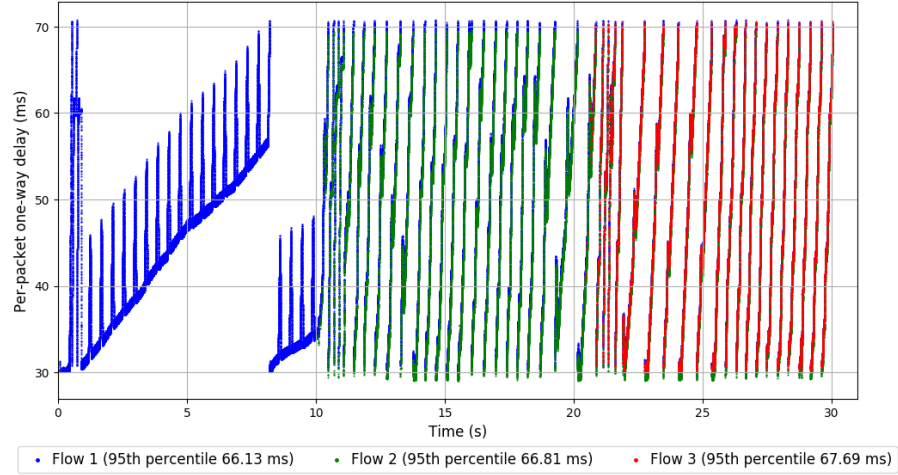
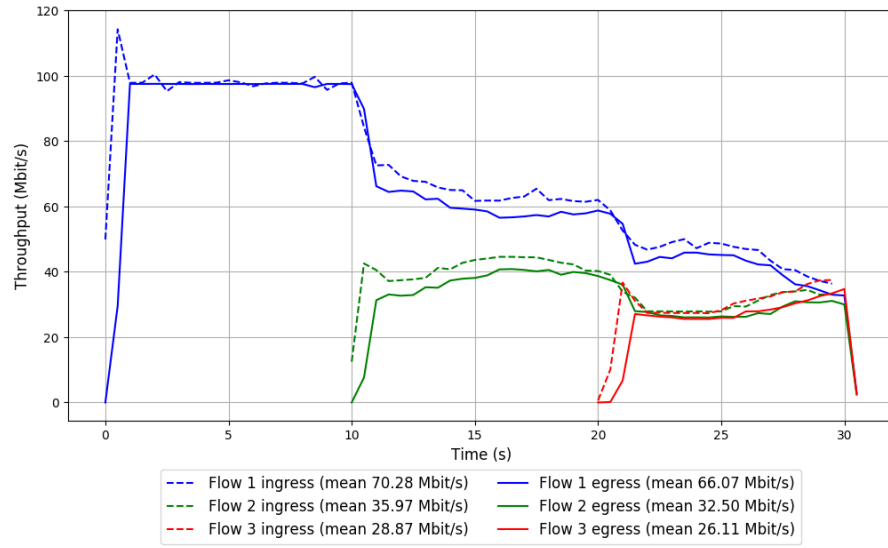


Run 1: Statistics of TCP BBR

Start at: 2020-02-18 01:44:39  
End at: 2020-02-18 01:45:09  
Local clock offset: 4.666 ms  
Remote clock offset: -5.909 ms

# Below is generated by plot.py at 2020-02-18 03:43:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.38 Mbit/s  
95th percentile per-packet one-way delay: 66.430 ms  
Loss rate: 7.13%  
-- Flow 1:  
Average throughput: 66.07 Mbit/s  
95th percentile per-packet one-way delay: 66.128 ms  
Loss rate: 5.93%  
-- Flow 2:  
Average throughput: 32.50 Mbit/s  
95th percentile per-packet one-way delay: 66.805 ms  
Loss rate: 9.61%  
-- Flow 3:  
Average throughput: 26.11 Mbit/s  
95th percentile per-packet one-way delay: 67.691 ms  
Loss rate: 9.71%

# Run 1: Report of TCP BBR — Data Link

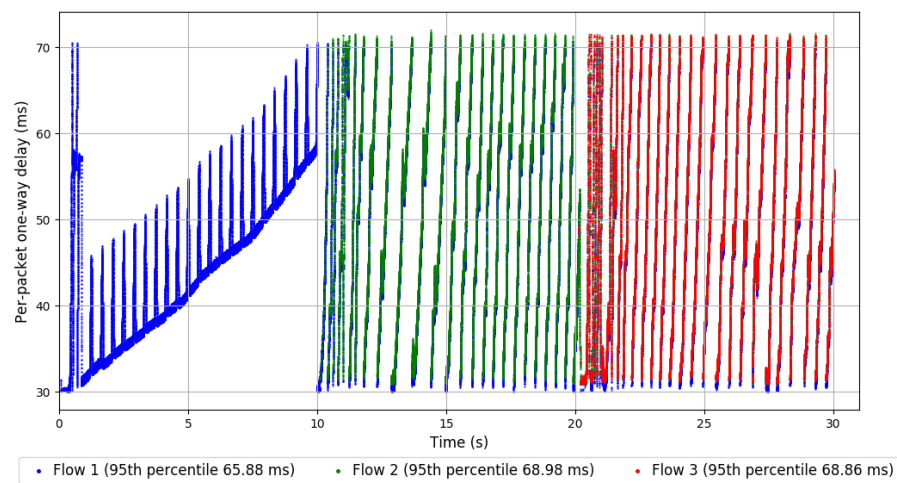
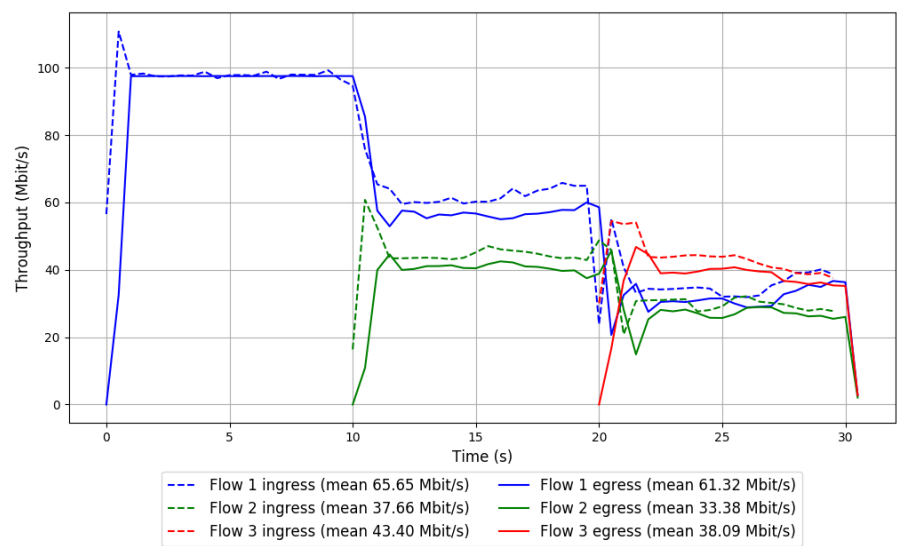


Run 2: Statistics of TCP BBR

Start at: 2020-02-18 02:13:02  
End at: 2020-02-18 02:13:32  
Local clock offset: 4.922 ms  
Remote clock offset: -3.649 ms

# Below is generated by plot.py at 2020-02-18 03:43:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.23 Mbit/s  
95th percentile per-packet one-way delay: 67.479 ms  
Loss rate: 8.42%  
-- Flow 1:  
Average throughput: 61.32 Mbit/s  
95th percentile per-packet one-way delay: 65.876 ms  
Loss rate: 6.51%  
-- Flow 2:  
Average throughput: 33.38 Mbit/s  
95th percentile per-packet one-way delay: 68.978 ms  
Loss rate: 11.27%  
-- Flow 3:  
Average throughput: 38.09 Mbit/s  
95th percentile per-packet one-way delay: 68.860 ms  
Loss rate: 12.11%

Run 2: Report of TCP BBR — Data Link

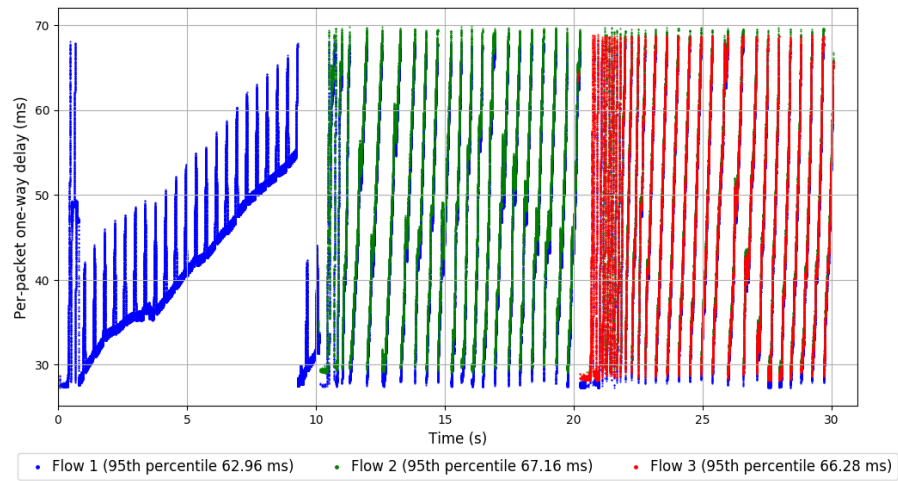
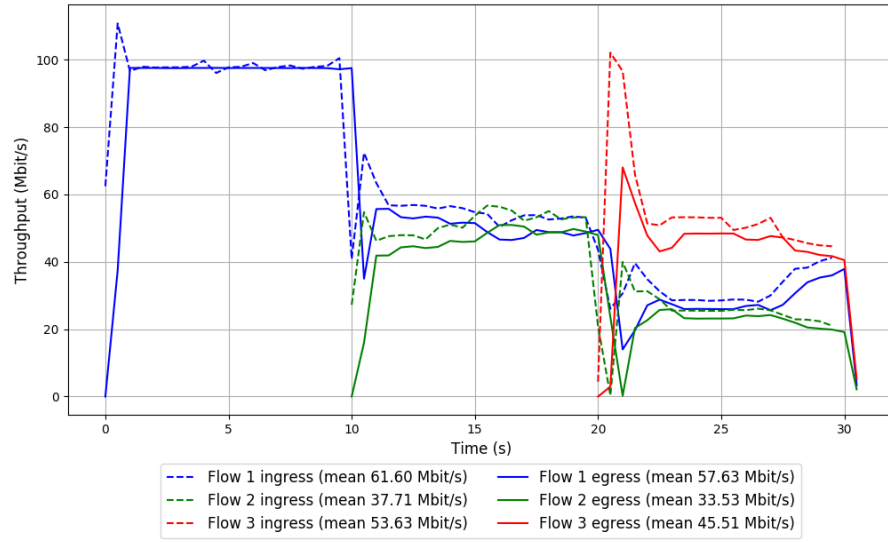


Run 3: Statistics of TCP BBR

Start at: 2020-02-18 02:41:24  
End at: 2020-02-18 02:41:54  
Local clock offset: 5.556 ms  
Remote clock offset: -3.181 ms

# Below is generated by plot.py at 2020-02-18 03:43:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.07 Mbit/s  
95th percentile per-packet one-way delay: 65.078 ms  
Loss rate: 8.95%  
-- Flow 1:  
Average throughput: 57.63 Mbit/s  
95th percentile per-packet one-way delay: 62.960 ms  
Loss rate: 6.36%  
-- Flow 2:  
Average throughput: 33.53 Mbit/s  
95th percentile per-packet one-way delay: 67.156 ms  
Loss rate: 10.98%  
-- Flow 3:  
Average throughput: 45.51 Mbit/s  
95th percentile per-packet one-way delay: 66.279 ms  
Loss rate: 15.02%

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



Run 4: Statistics of TCP BBR

Start at: 2020-02-18 03:09:43

End at: 2020-02-18 03:10:13

Local clock offset: 1.222 ms

Remote clock offset: 0.196 ms

# Below is generated by plot.py at 2020-02-18 03:43:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.30 Mbit/s

95th percentile per-packet one-way delay: 71.756 ms

Loss rate: 9.65%

-- Flow 1:

Average throughput: 59.61 Mbit/s

95th percentile per-packet one-way delay: 71.218 ms

Loss rate: 7.29%

-- Flow 2:

Average throughput: 30.83 Mbit/s

95th percentile per-packet one-way delay: 72.376 ms

Loss rate: 11.78%

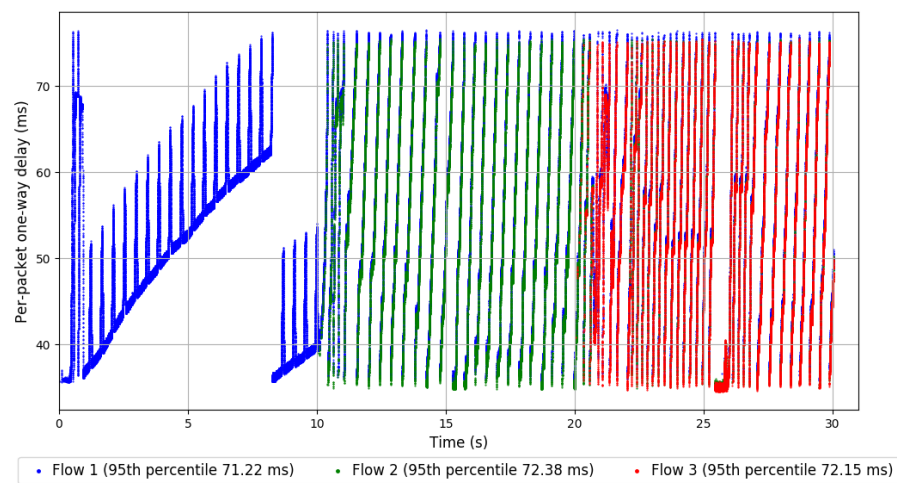
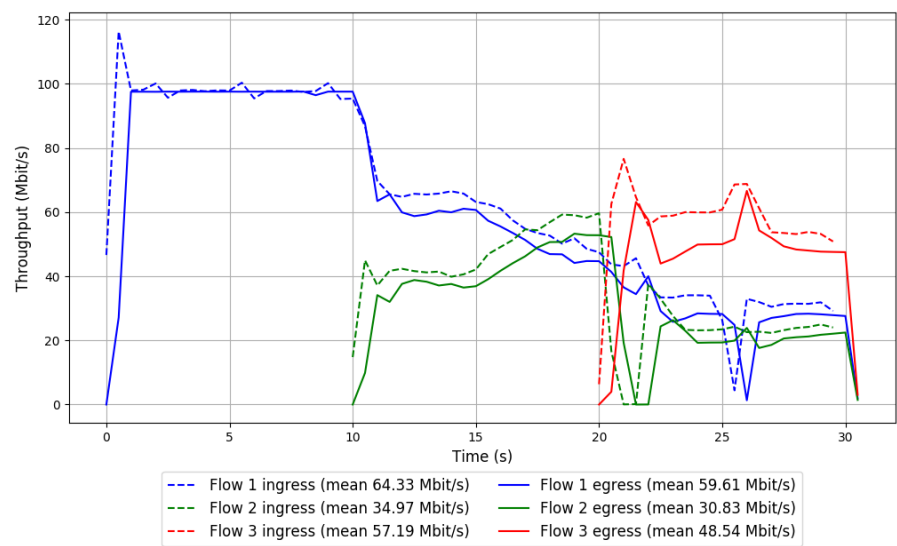
-- Flow 3:

Average throughput: 48.54 Mbit/s

95th percentile per-packet one-way delay: 72.150 ms

Loss rate: 15.04%

Run 4: Report of TCP BBR — Data Link





Run 5: Statistics of TCP BBR

Start at: 2020-02-18 03:38:09

End at: 2020-02-18 03:38:39

Local clock offset: 5.003 ms

Remote clock offset: 0.667 ms

# Below is generated by plot.py at 2020-02-18 03:43:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.16 Mbit/s

95th percentile per-packet one-way delay: 71.576 ms

Loss rate: 8.96%

-- Flow 1:

Average throughput: 59.81 Mbit/s

95th percentile per-packet one-way delay: 67.258 ms

Loss rate: 6.76%

-- Flow 2:

Average throughput: 33.78 Mbit/s

95th percentile per-packet one-way delay: 79.254 ms

Loss rate: 11.76%

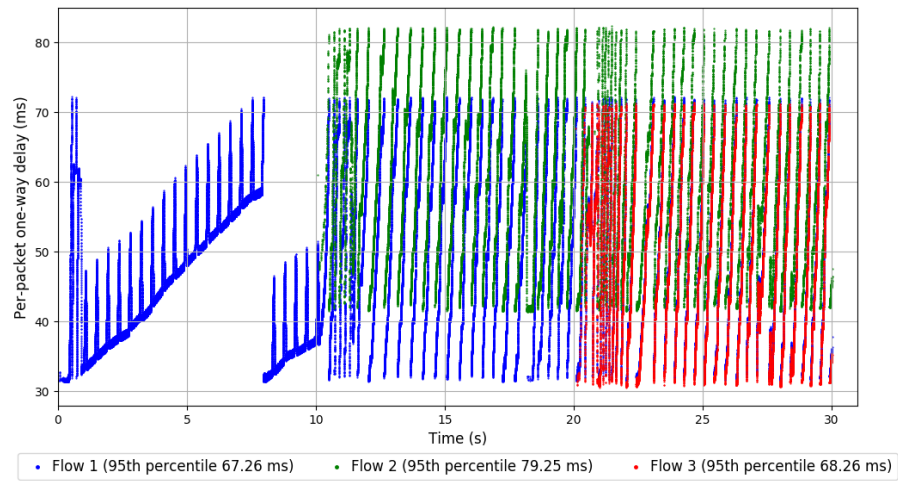
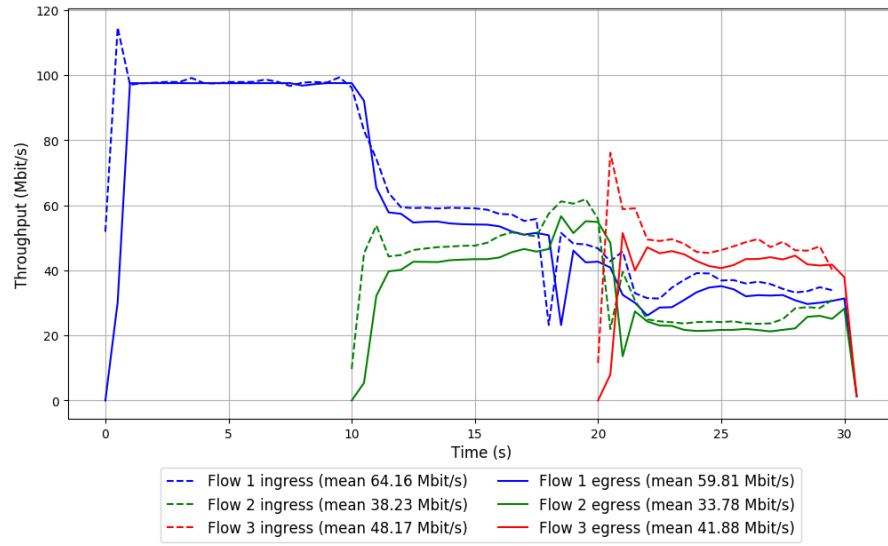
-- Flow 3:

Average throughput: 41.88 Mbit/s

95th percentile per-packet one-way delay: 68.264 ms

Loss rate: 13.34%

# Run 5: Report of TCP BBR — Data Link

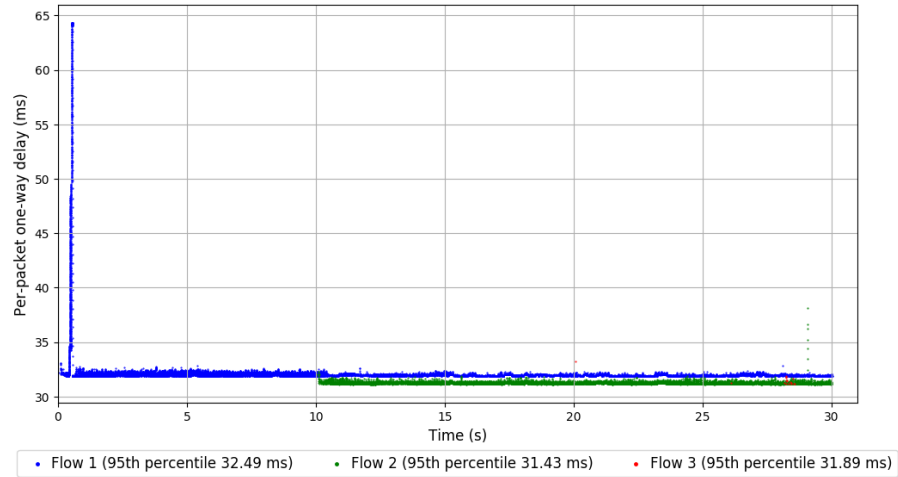
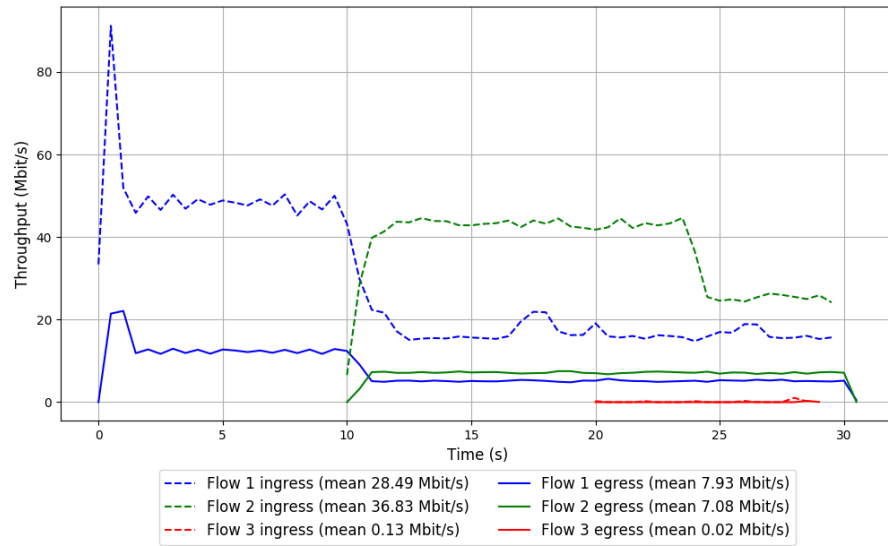


Run 1: Statistics of Copa

Start at: 2020-02-18 01:24:29  
End at: 2020-02-18 01:24:59  
Local clock offset: 1.642 ms  
Remote clock offset: -6.353 ms

# Below is generated by plot.py at 2020-02-18 03:43:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.65 Mbit/s  
95th percentile per-packet one-way delay: 32.286 ms  
Loss rate: 76.15%  
-- Flow 1:  
Average throughput: 7.93 Mbit/s  
95th percentile per-packet one-way delay: 32.491 ms  
Loss rate: 72.16%  
-- Flow 2:  
Average throughput: 7.08 Mbit/s  
95th percentile per-packet one-way delay: 31.431 ms  
Loss rate: 80.77%  
-- Flow 3:  
Average throughput: 0.02 Mbit/s  
95th percentile per-packet one-way delay: 31.892 ms  
Loss rate: 82.72%

## Run 1: Report of Copa — Data Link

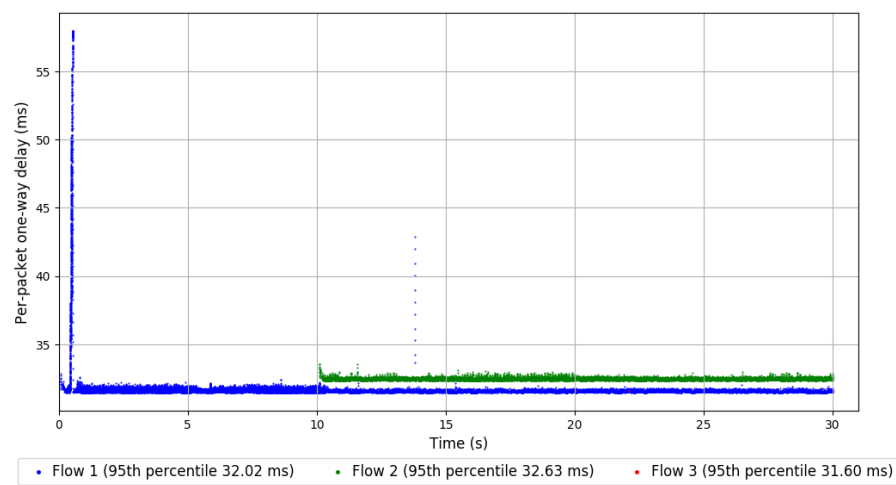
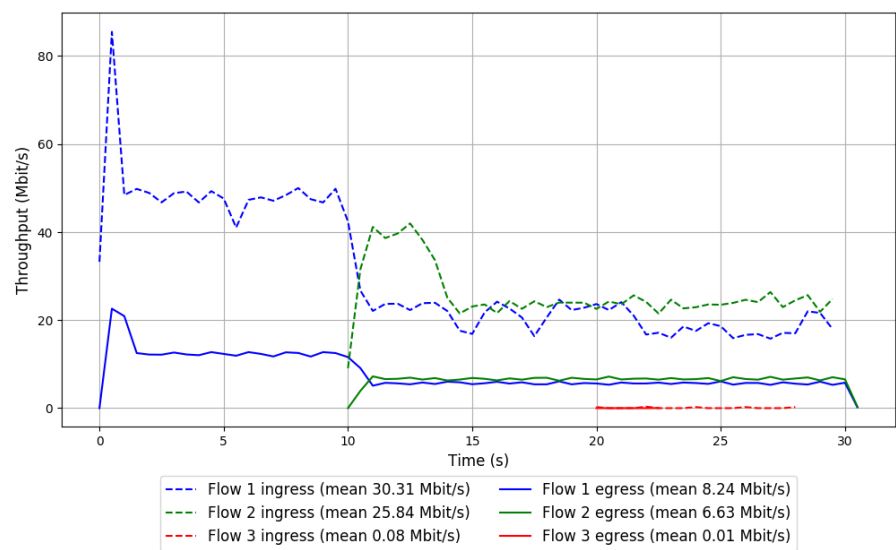


Run 2: Statistics of Copa

Start at: 2020-02-18 01:52:53  
End at: 2020-02-18 01:53:23  
Local clock offset: 0.758 ms  
Remote clock offset: -6.555 ms

# Below is generated by plot.py at 2020-02-18 03:43:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.65 Mbit/s  
95th percentile per-packet one-way delay: 32.611 ms  
Loss rate: 73.38%  
-- Flow 1:  
Average throughput: 8.24 Mbit/s  
95th percentile per-packet one-way delay: 32.024 ms  
Loss rate: 72.81%  
-- Flow 2:  
Average throughput: 6.63 Mbit/s  
95th percentile per-packet one-way delay: 32.627 ms  
Loss rate: 74.36%  
-- Flow 3:  
Average throughput: 0.01 Mbit/s  
95th percentile per-packet one-way delay: 31.599 ms  
Loss rate: 97.99%

Run 2: Report of Copa — Data Link

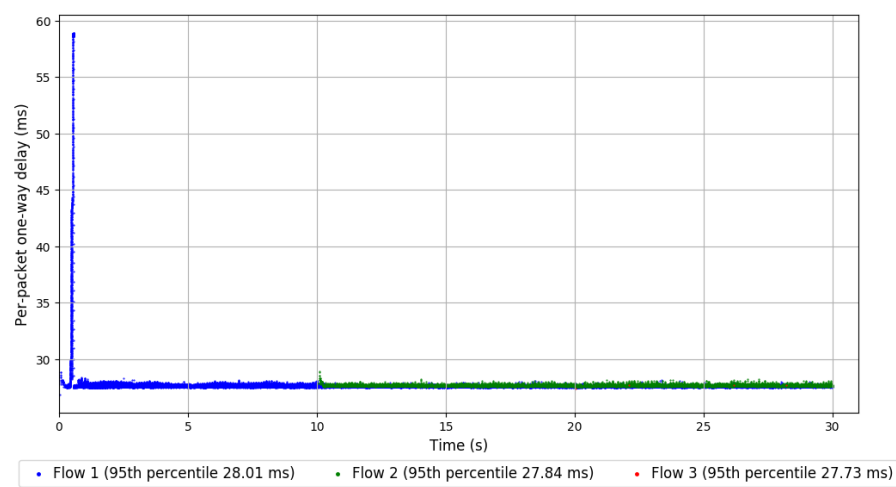
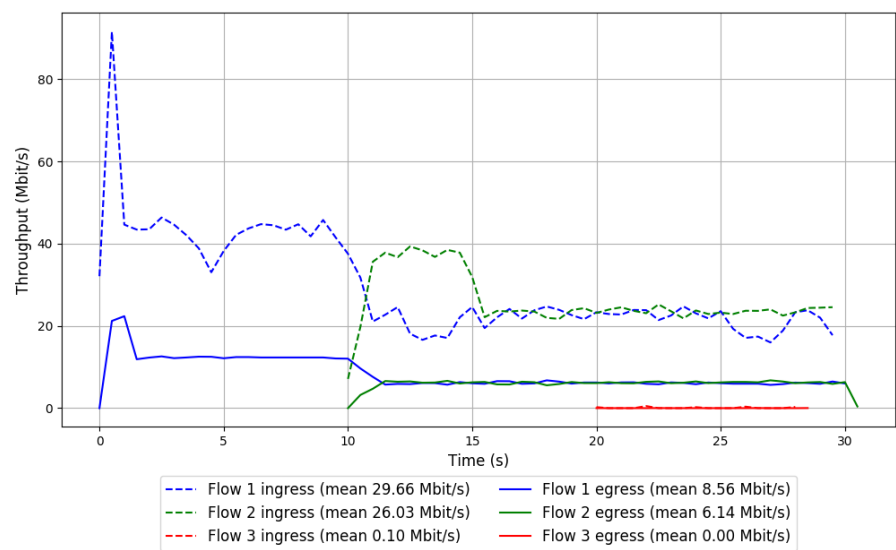


Run 3: Statistics of Copa

Start at: 2020-02-18 02:21:16  
End at: 2020-02-18 02:21:46  
Local clock offset: 5.875 ms  
Remote clock offset: -5.757 ms

# Below is generated by plot.py at 2020-02-18 03:43:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.65 Mbit/s  
95th percentile per-packet one-way delay: 27.914 ms  
Loss rate: 73.09%  
-- Flow 1:  
Average throughput: 8.56 Mbit/s  
95th percentile per-packet one-way delay: 28.006 ms  
Loss rate: 71.13%  
-- Flow 2:  
Average throughput: 6.14 Mbit/s  
95th percentile per-packet one-way delay: 27.845 ms  
Loss rate: 76.41%  
-- Flow 3:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 27.734 ms  
Loss rate: 95.47%

Run 3: Report of Copa — Data Link



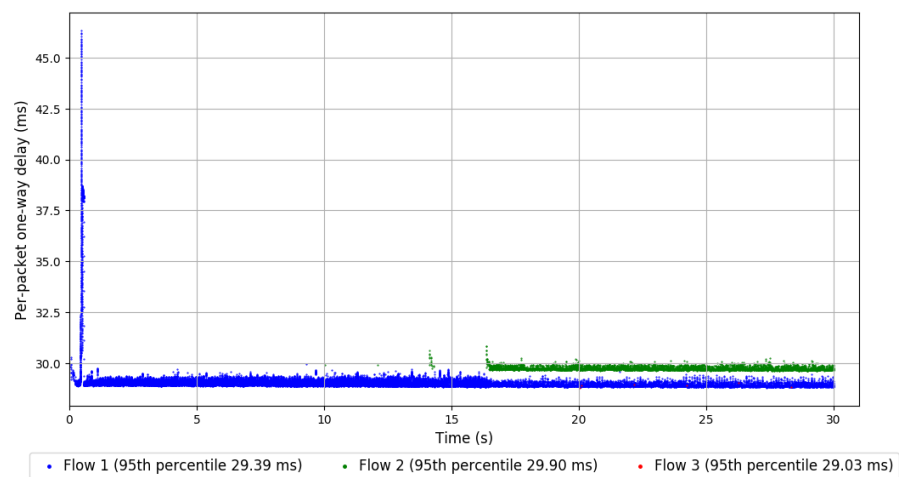
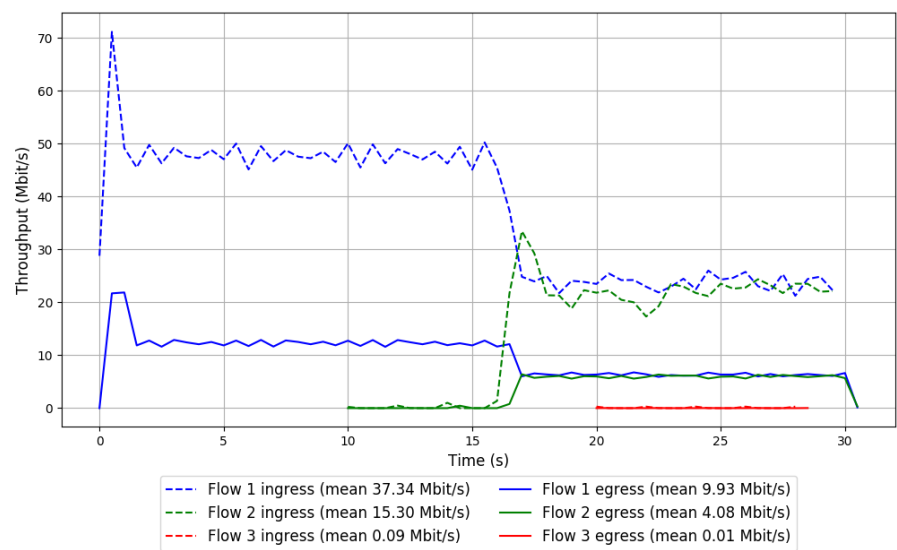


Run 4: Statistics of Copa

Start at: 2020-02-18 02:49:35  
End at: 2020-02-18 02:50:05  
Local clock offset: 5.407 ms  
Remote clock offset: -0.423 ms

# Below is generated by plot.py at 2020-02-18 03:43:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.65 Mbit/s  
95th percentile per-packet one-way delay: 29.864 ms  
Loss rate: 73.40%  
-- Flow 1:  
Average throughput: 9.93 Mbit/s  
95th percentile per-packet one-way delay: 29.392 ms  
Loss rate: 73.40%  
-- Flow 2:  
Average throughput: 4.08 Mbit/s  
95th percentile per-packet one-way delay: 29.896 ms  
Loss rate: 73.36%  
-- Flow 3:  
Average throughput: 0.01 Mbit/s  
95th percentile per-packet one-way delay: 29.031 ms  
Loss rate: 91.54%

Run 4: Report of Copa — Data Link

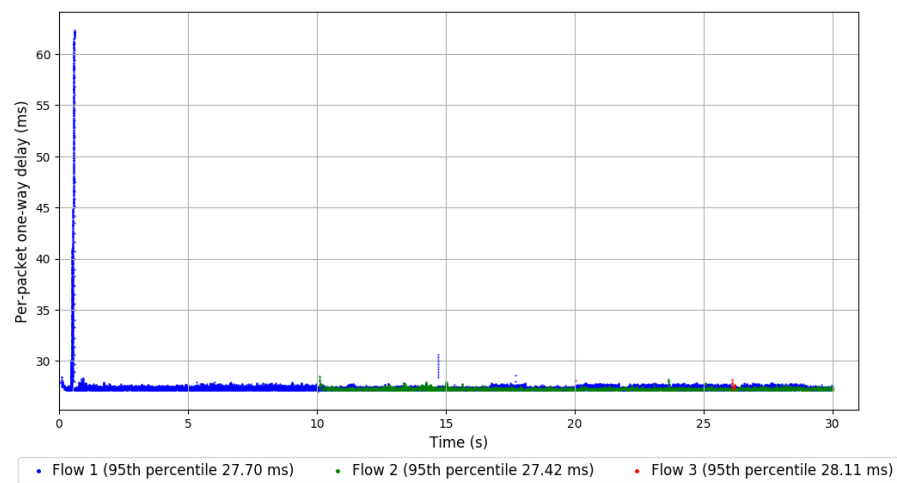
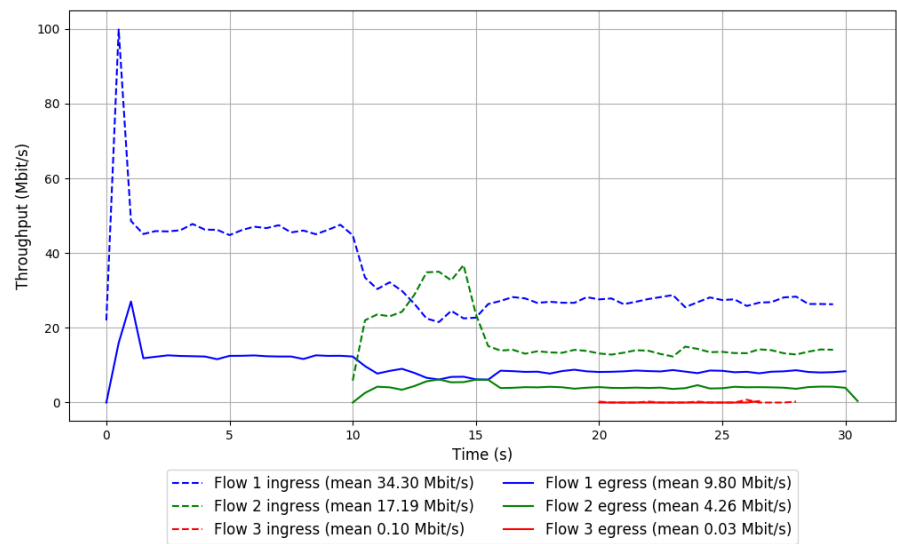


Run 5: Statistics of Copa

Start at: 2020-02-18 03:17:55  
End at: 2020-02-18 03:18:25  
Local clock offset: 5.393 ms  
Remote clock offset: -2.397 ms

# Below is generated by plot.py at 2020-02-18 03:43:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.64 Mbit/s  
95th percentile per-packet one-way delay: 27.651 ms  
Loss rate: 72.38%  
-- Flow 1:  
Average throughput: 9.80 Mbit/s  
95th percentile per-packet one-way delay: 27.701 ms  
Loss rate: 71.43%  
-- Flow 2:  
Average throughput: 4.26 Mbit/s  
95th percentile per-packet one-way delay: 27.418 ms  
Loss rate: 75.21%  
-- Flow 3:  
Average throughput: 0.03 Mbit/s  
95th percentile per-packet one-way delay: 28.114 ms  
Loss rate: 77.37%

Run 5: Report of Copa — Data Link

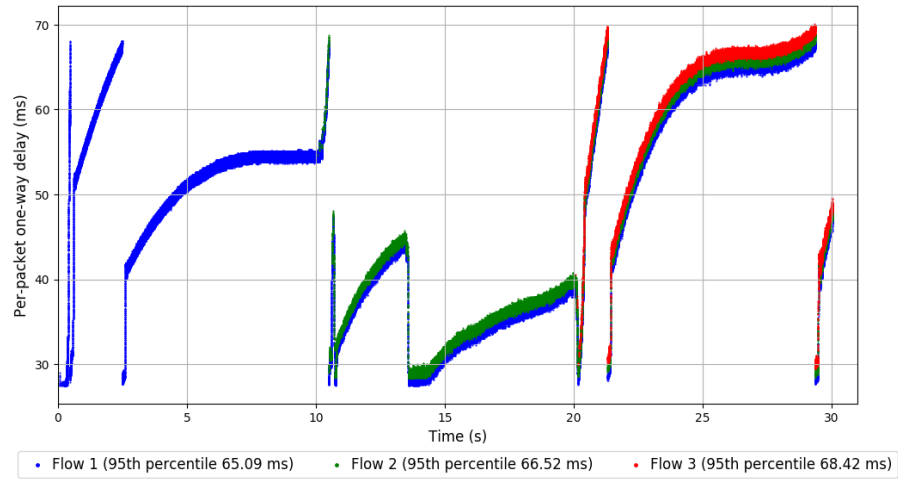
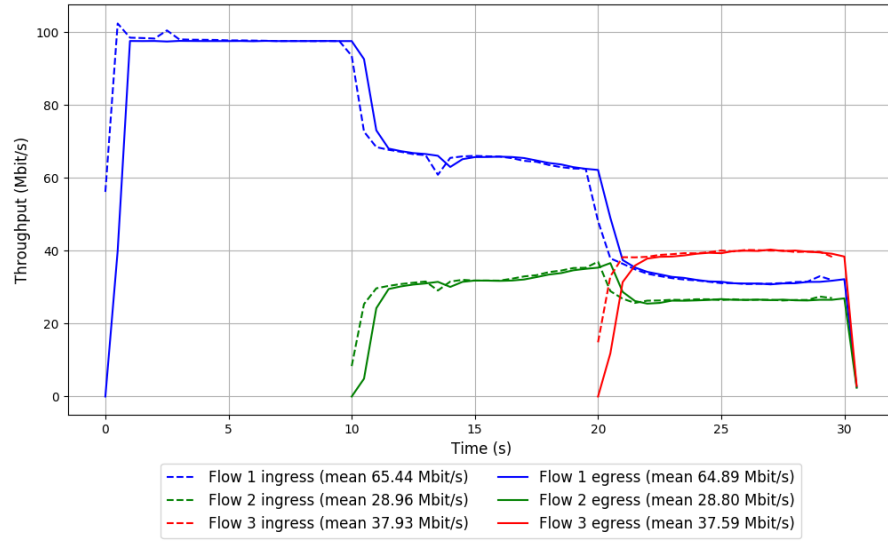


Run 1: Statistics of TCP Cubic

Start at: 2020-02-18 01:39:50  
End at: 2020-02-18 01:40:20  
Local clock offset: 5.747 ms  
Remote clock offset: -5.559 ms

# Below is generated by plot.py at 2020-02-18 03:43:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.56 Mbit/s  
95th percentile per-packet one-way delay: 66.766 ms  
Loss rate: 0.74%  
-- Flow 1:  
Average throughput: 64.89 Mbit/s  
95th percentile per-packet one-way delay: 65.091 ms  
Loss rate: 0.77%  
-- Flow 2:  
Average throughput: 28.80 Mbit/s  
95th percentile per-packet one-way delay: 66.523 ms  
Loss rate: 0.57%  
-- Flow 3:  
Average throughput: 37.59 Mbit/s  
95th percentile per-packet one-way delay: 68.422 ms  
Loss rate: 0.83%

# Run 1: Report of TCP Cubic — Data Link

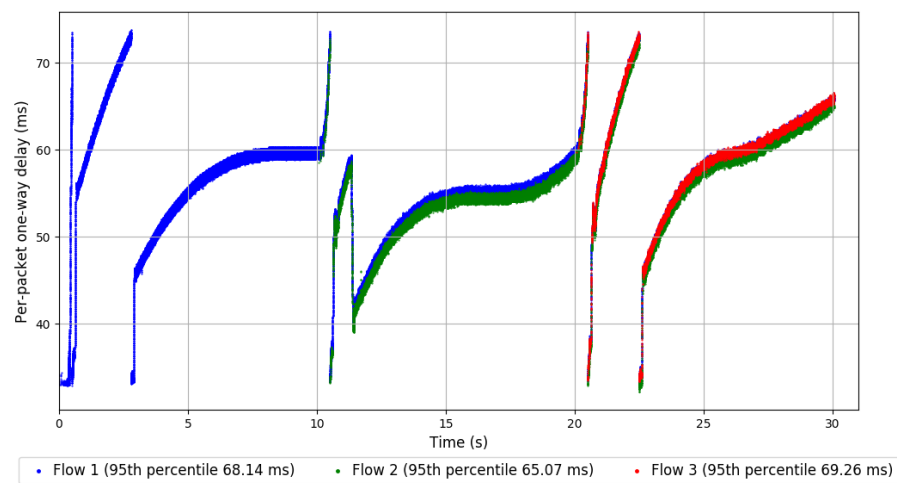
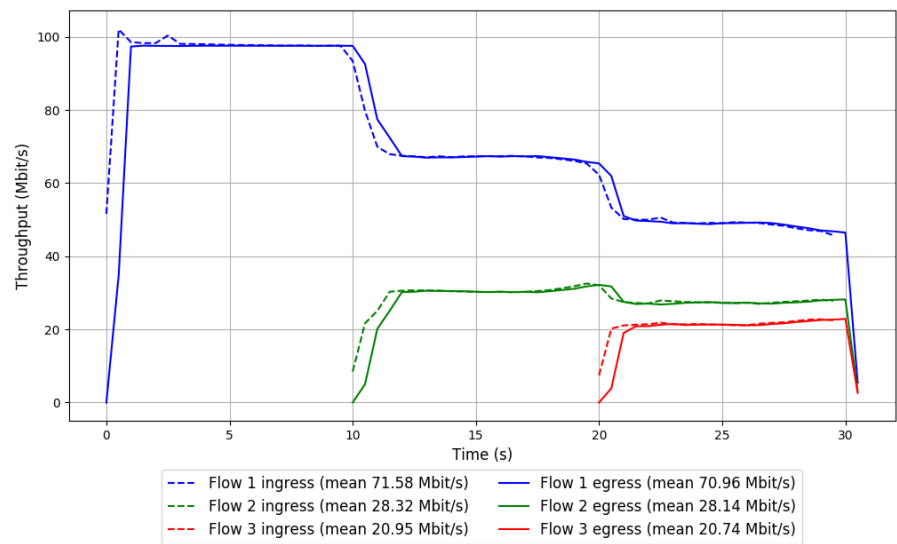


Run 2: Statistics of TCP Cubic

Start at: 2020-02-18 02:08:15  
End at: 2020-02-18 02:08:45  
Local clock offset: 4.686 ms  
Remote clock offset: -1.851 ms

# Below is generated by plot.py at 2020-02-18 03:43:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.58 Mbit/s  
95th percentile per-packet one-way delay: 67.707 ms  
Loss rate: 0.75%  
-- Flow 1:  
Average throughput: 70.96 Mbit/s  
95th percentile per-packet one-way delay: 68.140 ms  
Loss rate: 0.76%  
-- Flow 2:  
Average throughput: 28.14 Mbit/s  
95th percentile per-packet one-way delay: 65.071 ms  
Loss rate: 0.62%  
-- Flow 3:  
Average throughput: 20.74 Mbit/s  
95th percentile per-packet one-way delay: 69.261 ms  
Loss rate: 0.91%

Run 2: Report of TCP Cubic — Data Link



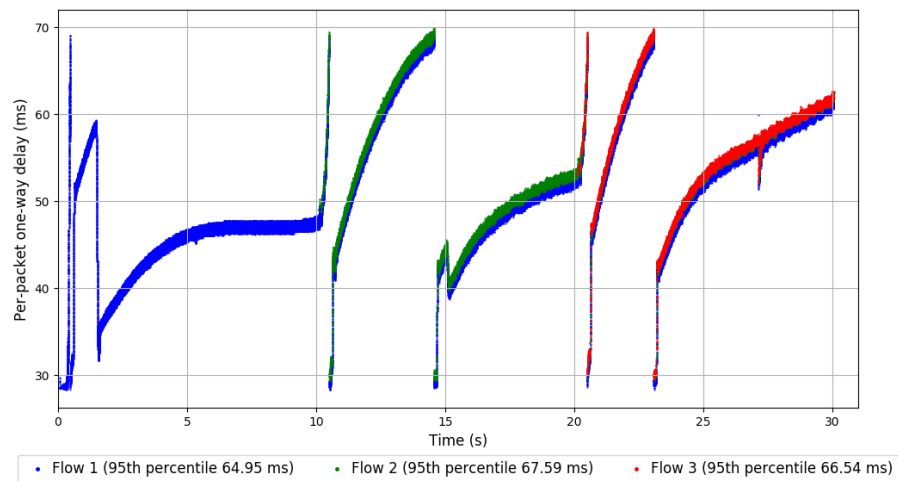
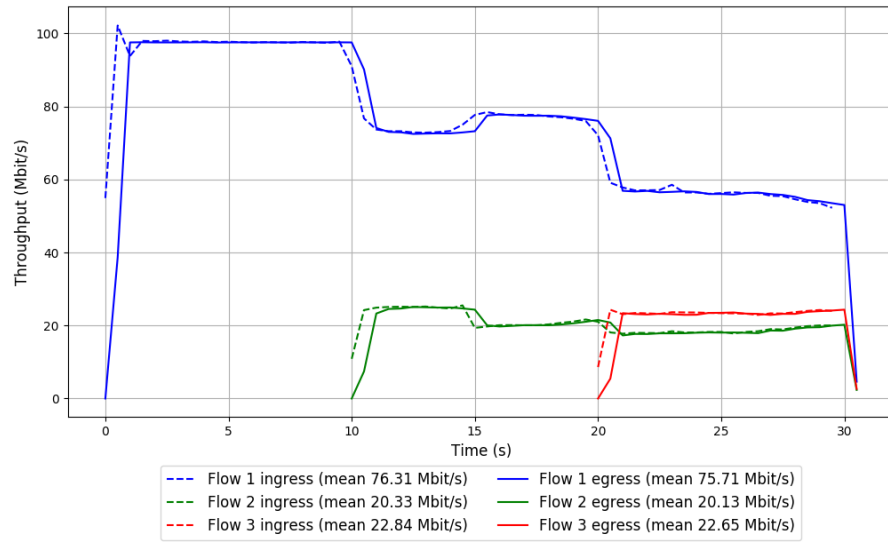


Run 3: Statistics of TCP Cubic

Start at: 2020-02-18 02:36:36  
End at: 2020-02-18 02:37:06  
Local clock offset: 6.051 ms  
Remote clock offset: -2.523 ms

# Below is generated by plot.py at 2020-02-18 03:43:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.62 Mbit/s  
95th percentile per-packet one-way delay: 65.779 ms  
Loss rate: 0.73%  
-- Flow 1:  
Average throughput: 75.71 Mbit/s  
95th percentile per-packet one-way delay: 64.950 ms  
Loss rate: 0.71%  
-- Flow 2:  
Average throughput: 20.13 Mbit/s  
95th percentile per-packet one-way delay: 67.591 ms  
Loss rate: 0.87%  
-- Flow 3:  
Average throughput: 22.65 Mbit/s  
95th percentile per-packet one-way delay: 66.538 ms  
Loss rate: 0.76%

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



Run 4: Statistics of TCP Cubic

Start at: 2020-02-18 03:04:55

End at: 2020-02-18 03:05:25

Local clock offset: 5.312 ms

Remote clock offset: 2.777 ms

# Below is generated by plot.py at 2020-02-18 03:44:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.65 Mbit/s

95th percentile per-packet one-way delay: 69.602 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 74.96 Mbit/s

95th percentile per-packet one-way delay: 69.053 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 28.80 Mbit/s

95th percentile per-packet one-way delay: 71.099 ms

Loss rate: 0.56%

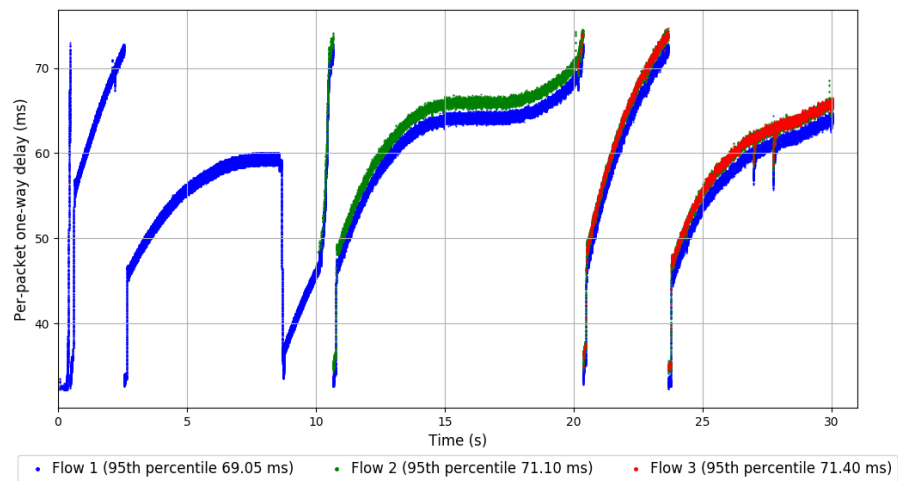
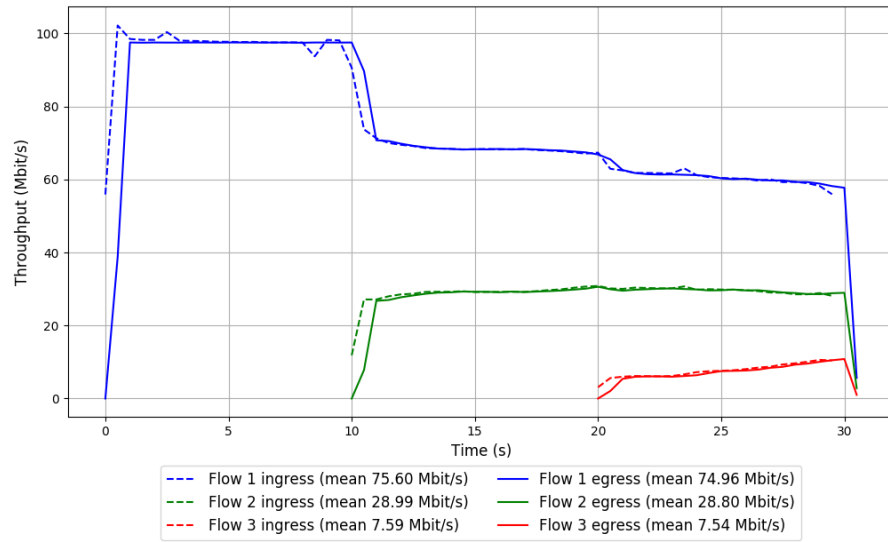
-- Flow 3:

Average throughput: 7.54 Mbit/s

95th percentile per-packet one-way delay: 71.398 ms

Loss rate: 0.76%

# Run 4: Report of TCP Cubic — Data Link

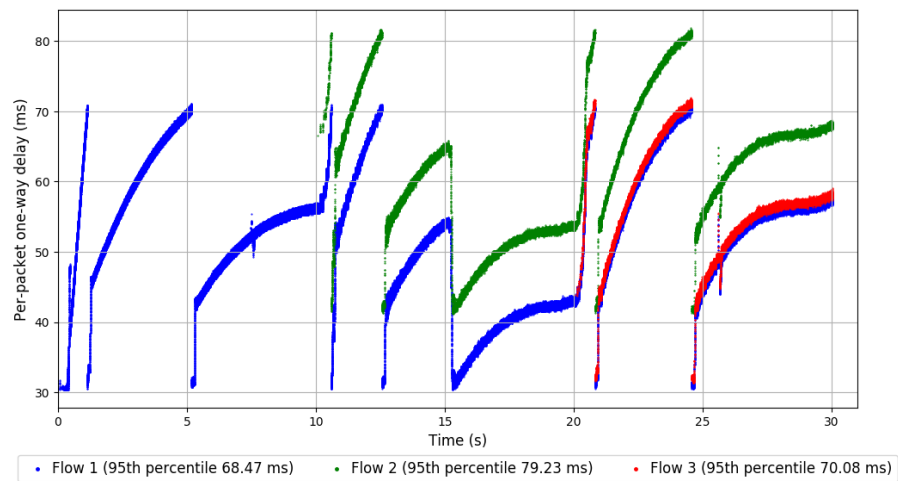
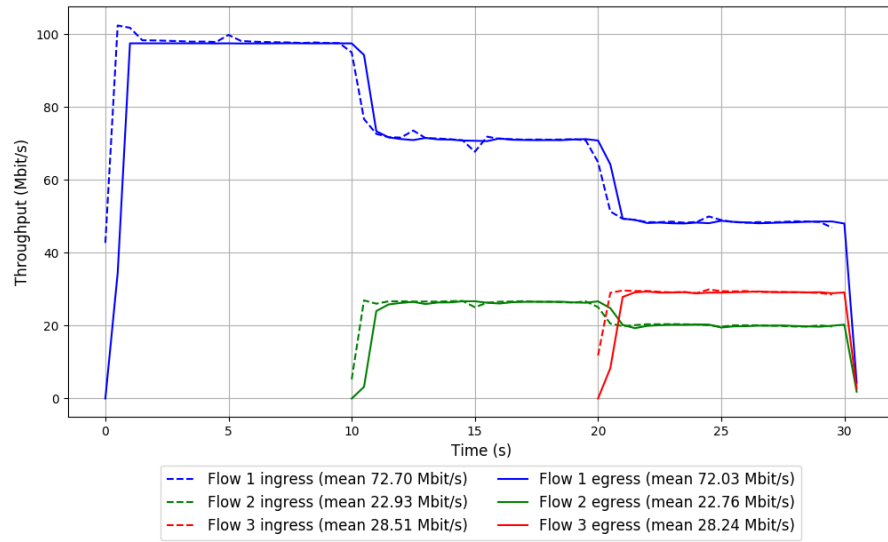


Run 5: Statistics of TCP Cubic

Start at: 2020-02-18 03:33:22  
End at: 2020-02-18 03:33:52  
Local clock offset: 0.865 ms  
Remote clock offset: -3.359 ms

# Below is generated by plot.py at 2020-02-18 03:44:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.56 Mbit/s  
95th percentile per-packet one-way delay: 69.699 ms  
Loss rate: 0.82%  
-- Flow 1:  
Average throughput: 72.03 Mbit/s  
95th percentile per-packet one-way delay: 68.473 ms  
Loss rate: 0.84%  
-- Flow 2:  
Average throughput: 22.76 Mbit/s  
95th percentile per-packet one-way delay: 79.232 ms  
Loss rate: 0.79%  
-- Flow 3:  
Average throughput: 28.24 Mbit/s  
95th percentile per-packet one-way delay: 70.080 ms  
Loss rate: 0.78%

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

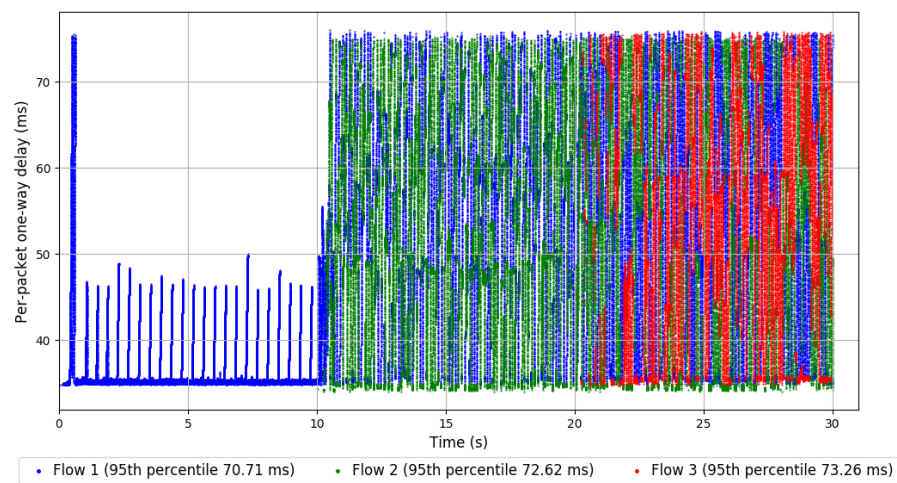
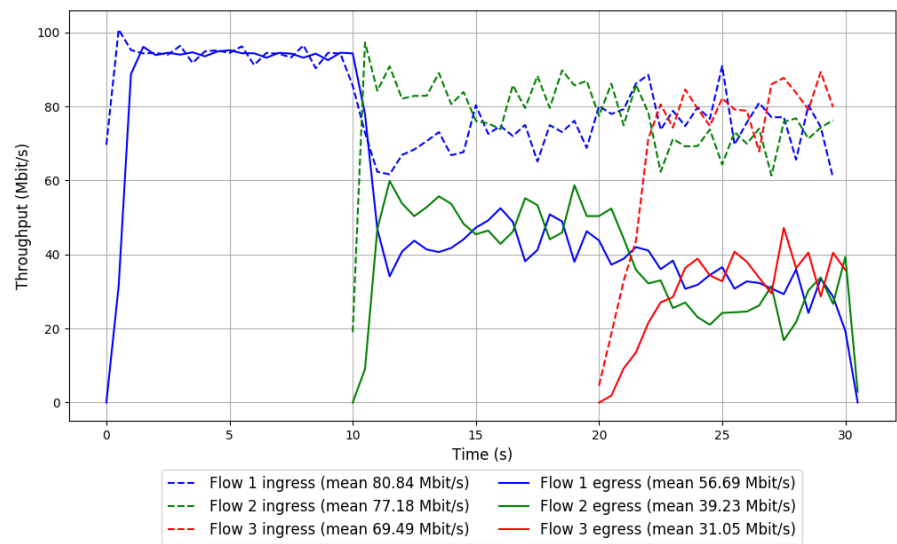


Run 1: Statistics of FillP

Start at: 2020-02-18 01:43:27  
End at: 2020-02-18 01:43:57  
Local clock offset: 0.252 ms  
Remote clock offset: -4.322 ms

# Below is generated by plot.py at 2020-02-18 03:44:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.06 Mbit/s  
95th percentile per-packet one-way delay: 72.074 ms  
Loss rate: 40.02%  
-- Flow 1:  
Average throughput: 56.69 Mbit/s  
95th percentile per-packet one-way delay: 70.712 ms  
Loss rate: 29.85%  
-- Flow 2:  
Average throughput: 39.23 Mbit/s  
95th percentile per-packet one-way delay: 72.624 ms  
Loss rate: 49.14%  
-- Flow 3:  
Average throughput: 31.05 Mbit/s  
95th percentile per-packet one-way delay: 73.260 ms  
Loss rate: 55.38%

Run 1: Report of FillP — Data Link



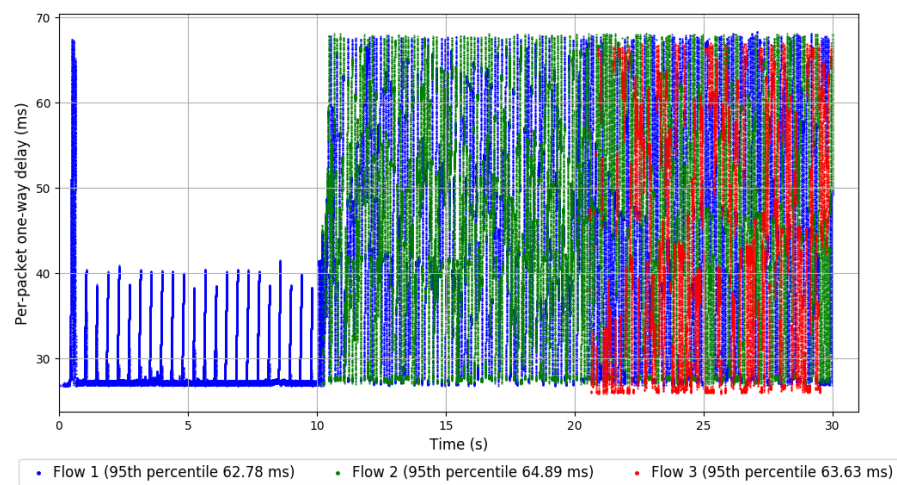
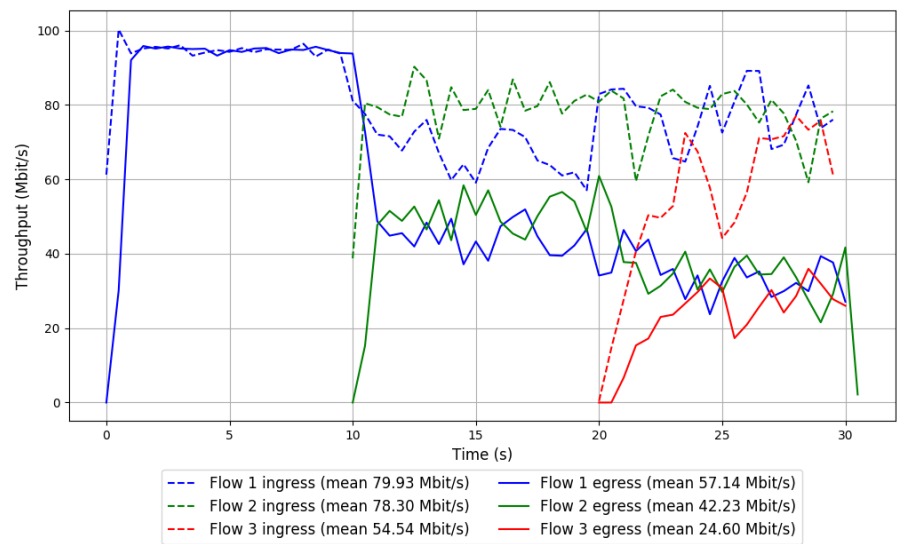


Run 2: Statistics of FillP

Start at: 2020-02-18 02:11:50  
End at: 2020-02-18 02:12:20  
Local clock offset: 6.298 ms  
Remote clock offset: -6.22 ms

# Below is generated by plot.py at 2020-02-18 03:44:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.16 Mbit/s  
95th percentile per-packet one-way delay: 63.711 ms  
Loss rate: 37.91%  
-- Flow 1:  
Average throughput: 57.14 Mbit/s  
95th percentile per-packet one-way delay: 62.782 ms  
Loss rate: 28.51%  
-- Flow 2:  
Average throughput: 42.23 Mbit/s  
95th percentile per-packet one-way delay: 64.888 ms  
Loss rate: 45.98%  
-- Flow 3:  
Average throughput: 24.60 Mbit/s  
95th percentile per-packet one-way delay: 63.634 ms  
Loss rate: 56.17%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2020-02-18 02:40:12

End at: 2020-02-18 02:40:42

Local clock offset: 5.661 ms

Remote clock offset: -1.34 ms

# Below is generated by plot.py at 2020-02-18 03:44:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.42 Mbit/s

95th percentile per-packet one-way delay: 66.663 ms

Loss rate: 40.59%

-- Flow 1:

Average throughput: 56.68 Mbit/s

95th percentile per-packet one-way delay: 64.251 ms

Loss rate: 30.65%

-- Flow 2:

Average throughput: 42.08 Mbit/s

95th percentile per-packet one-way delay: 68.112 ms

Loss rate: 48.65%

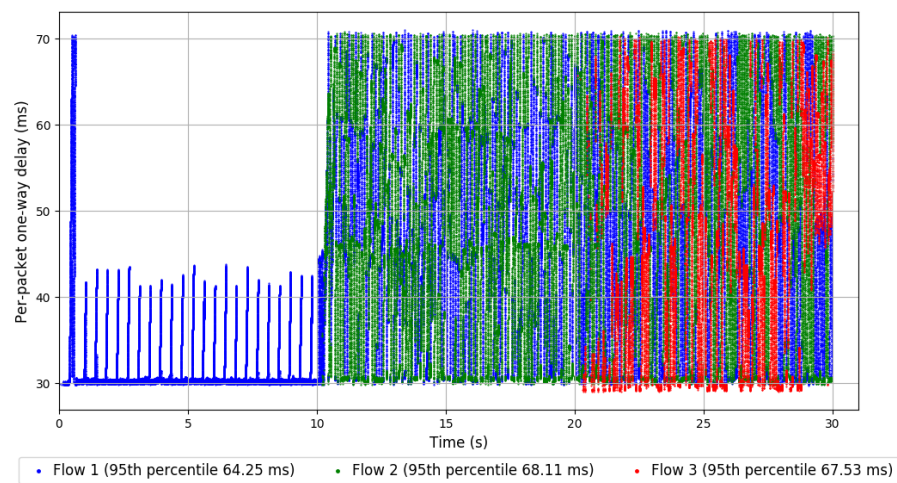
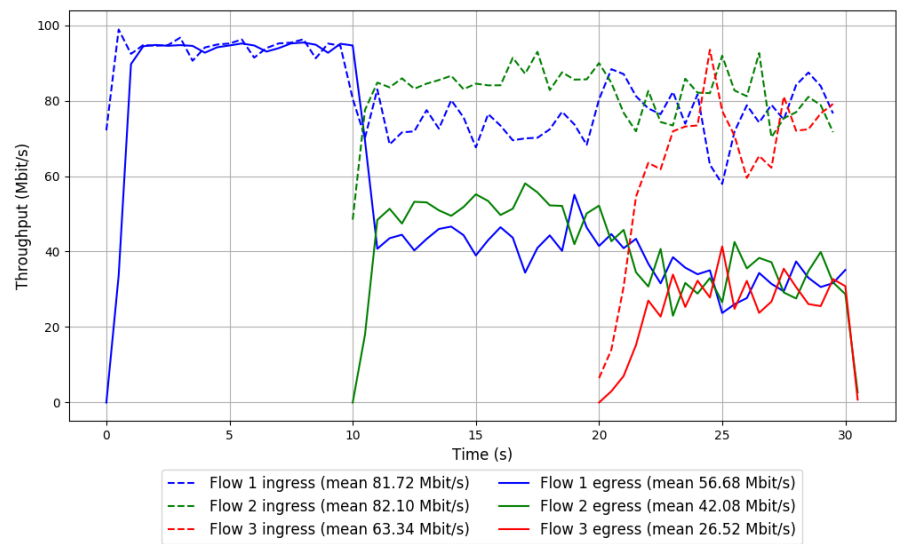
-- Flow 3:

Average throughput: 26.52 Mbit/s

95th percentile per-packet one-way delay: 67.533 ms

Loss rate: 58.28%

Run 3: Report of FillP — Data Link

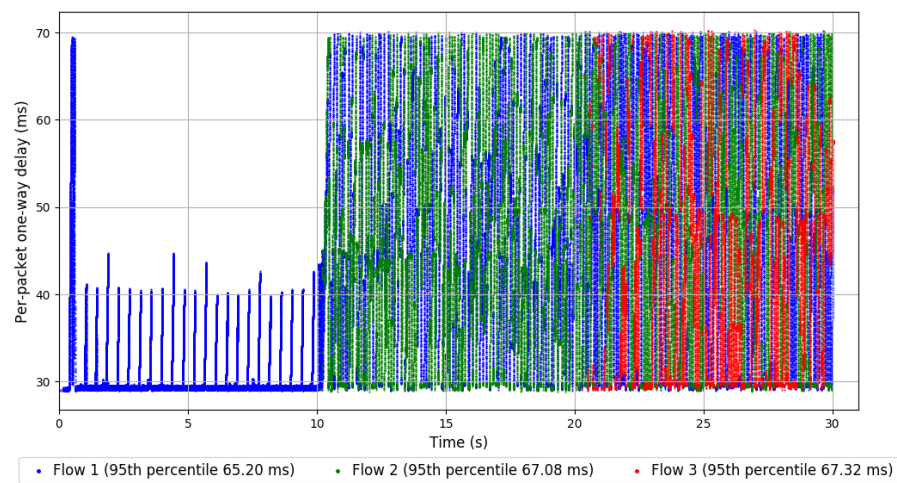
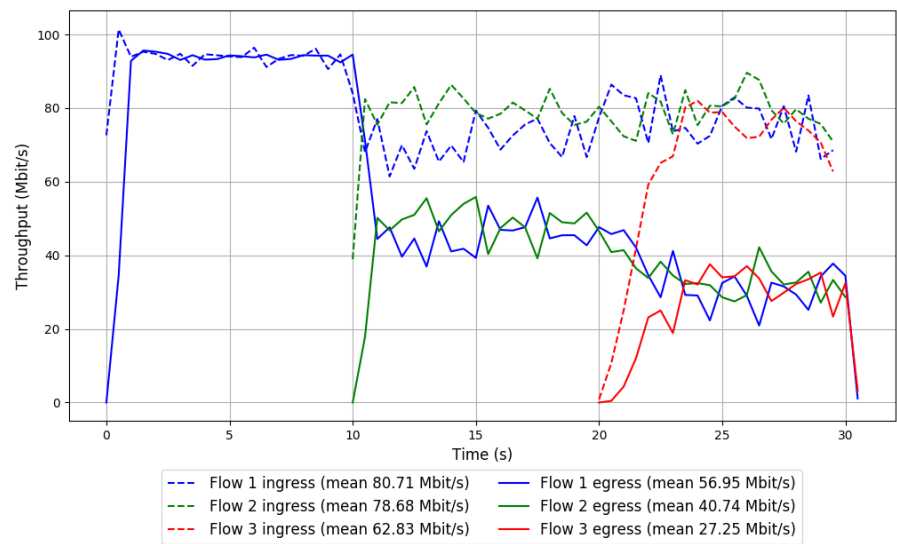


Run 4: Statistics of FillP

Start at: 2020-02-18 03:08:31  
End at: 2020-02-18 03:09:01  
Local clock offset: 5.142 ms  
Remote clock offset: -2.277 ms

# Below is generated by plot.py at 2020-02-18 03:44:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.05 Mbit/s  
95th percentile per-packet one-way delay: 66.191 ms  
Loss rate: 39.47%  
-- Flow 1:  
Average throughput: 56.95 Mbit/s  
95th percentile per-packet one-way delay: 65.205 ms  
Loss rate: 29.38%  
-- Flow 2:  
Average throughput: 40.74 Mbit/s  
95th percentile per-packet one-way delay: 67.085 ms  
Loss rate: 48.22%  
-- Flow 3:  
Average throughput: 27.25 Mbit/s  
95th percentile per-packet one-way delay: 67.319 ms  
Loss rate: 56.51%

Run 4: Report of FillP — Data Link

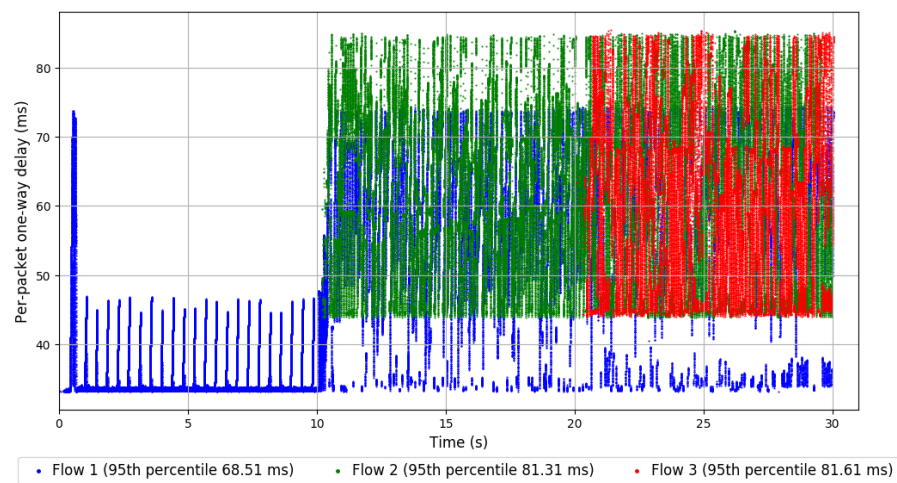
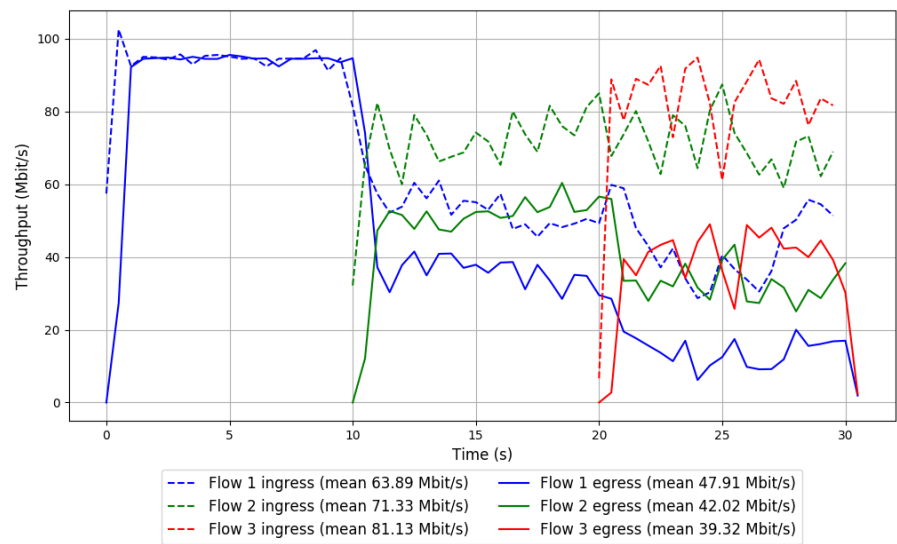


Run 5: Statistics of FillP

Start at: 2020-02-18 03:36:57  
End at: 2020-02-18 03:37:27  
Local clock offset: 0.266 ms  
Remote clock offset: -1.248 ms

# Below is generated by plot.py at 2020-02-18 03:45:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.83 Mbit/s  
95th percentile per-packet one-way delay: 78.182 ms  
Loss rate: 35.66%  
-- Flow 1:  
Average throughput: 47.91 Mbit/s  
95th percentile per-packet one-way delay: 68.511 ms  
Loss rate: 24.93%  
-- Flow 2:  
Average throughput: 42.02 Mbit/s  
95th percentile per-packet one-way delay: 81.312 ms  
Loss rate: 41.16%  
-- Flow 3:  
Average throughput: 39.32 Mbit/s  
95th percentile per-packet one-way delay: 81.606 ms  
Loss rate: 51.46%

Run 5: Report of FillP — Data Link



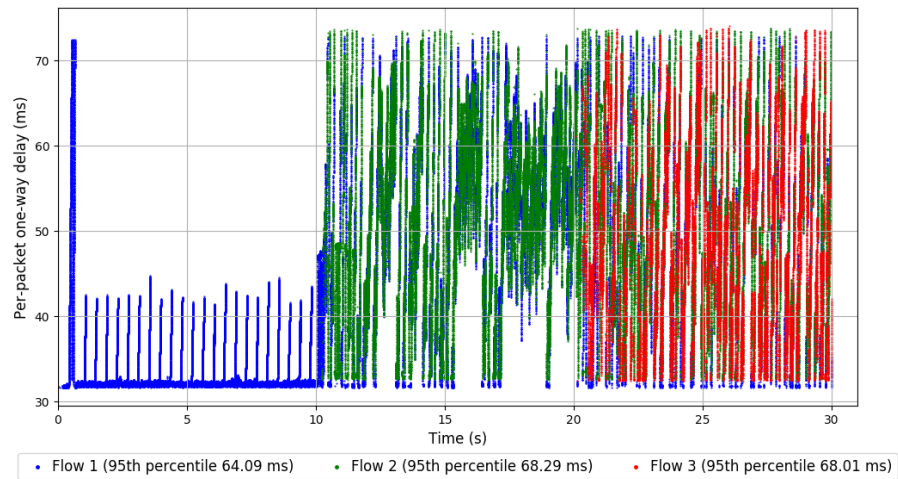
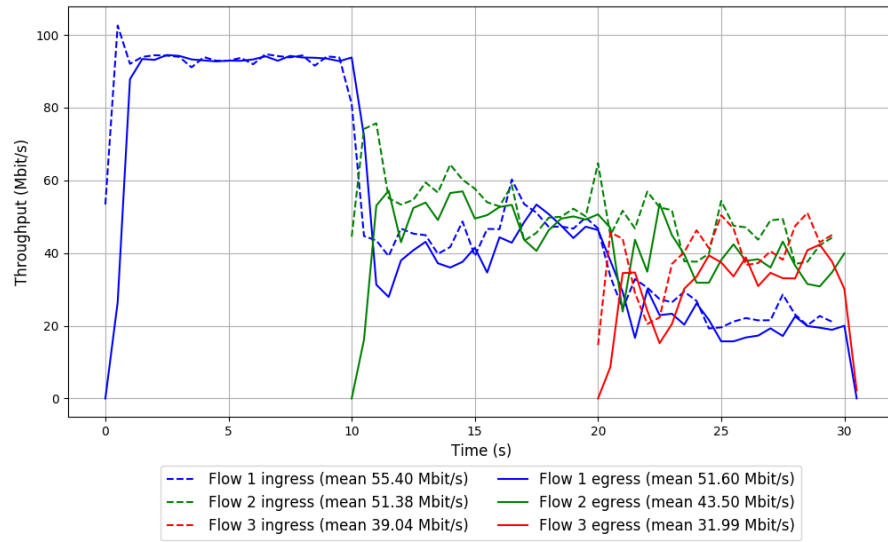


Run 1: Statistics of FillP-Sheep

Start at: 2020-02-18 01:41:02  
End at: 2020-02-18 01:41:32  
Local clock offset: 5.089 ms  
Remote clock offset: -2.881 ms

# Below is generated by plot.py at 2020-02-18 03:45:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.11 Mbit/s  
95th percentile per-packet one-way delay: 66.584 ms  
Loss rate: 11.12%  
-- Flow 1:  
Average throughput: 51.60 Mbit/s  
95th percentile per-packet one-way delay: 64.094 ms  
Loss rate: 6.85%  
-- Flow 2:  
Average throughput: 43.50 Mbit/s  
95th percentile per-packet one-way delay: 68.294 ms  
Loss rate: 15.32%  
-- Flow 3:  
Average throughput: 31.99 Mbit/s  
95th percentile per-packet one-way delay: 68.011 ms  
Loss rate: 18.26%

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

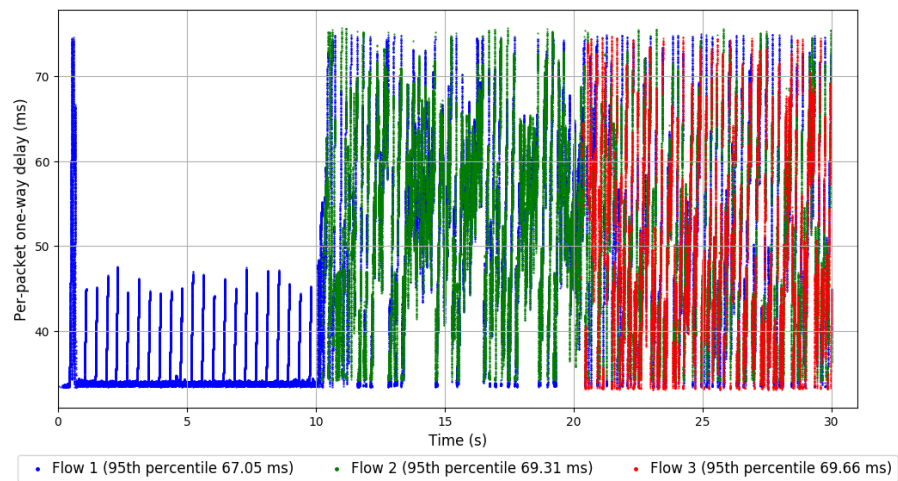
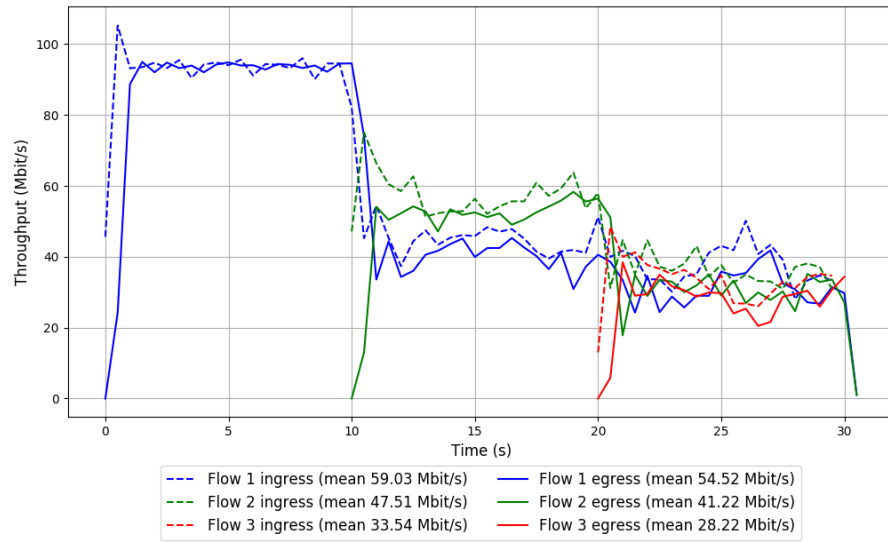


Run 2: Statistics of FillP-Sheep

Start at: 2020-02-18 02:09:26  
End at: 2020-02-18 02:09:56  
Local clock offset: -1.612 ms  
Remote clock offset: -7.631 ms

# Below is generated by plot.py at 2020-02-18 03:45:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.29 Mbit/s  
95th percentile per-packet one-way delay: 68.289 ms  
Loss rate: 10.28%  
-- Flow 1:  
Average throughput: 54.52 Mbit/s  
95th percentile per-packet one-way delay: 67.049 ms  
Loss rate: 7.64%  
-- Flow 2:  
Average throughput: 41.22 Mbit/s  
95th percentile per-packet one-way delay: 69.307 ms  
Loss rate: 13.24%  
-- Flow 3:  
Average throughput: 28.22 Mbit/s  
95th percentile per-packet one-way delay: 69.656 ms  
Loss rate: 15.94%

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

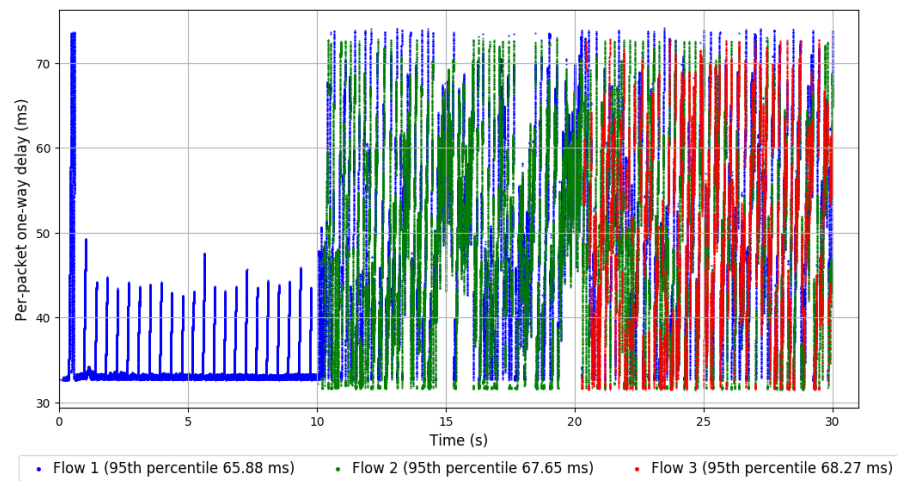
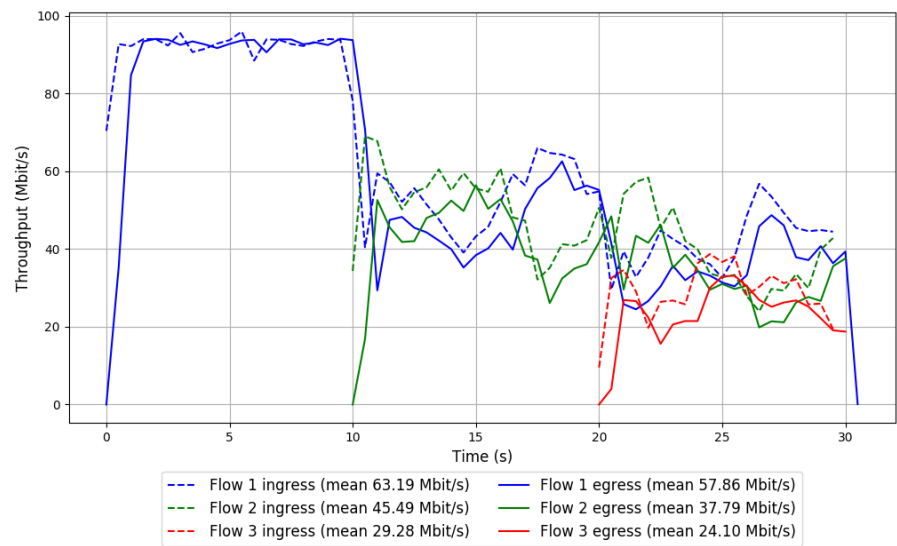


Run 3: Statistics of FillP-Sheep

Start at: 2020-02-18 02:37:48  
End at: 2020-02-18 02:38:18  
Local clock offset: 0.809 ms  
Remote clock offset: -4.091 ms

# Below is generated by plot.py at 2020-02-18 03:45:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.95 Mbit/s  
95th percentile per-packet one-way delay: 66.919 ms  
Loss rate: 11.83%  
-- Flow 1:  
Average throughput: 57.86 Mbit/s  
95th percentile per-packet one-way delay: 65.882 ms  
Loss rate: 8.43%  
-- Flow 2:  
Average throughput: 37.79 Mbit/s  
95th percentile per-packet one-way delay: 67.653 ms  
Loss rate: 16.96%  
-- Flow 3:  
Average throughput: 24.10 Mbit/s  
95th percentile per-packet one-way delay: 68.274 ms  
Loss rate: 18.00%

Run 3: Report of FillP-Sheep — Data Link

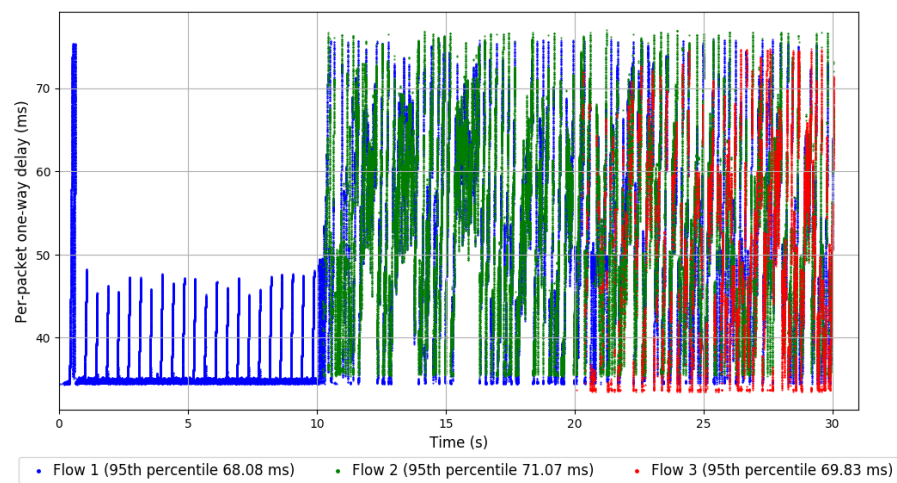
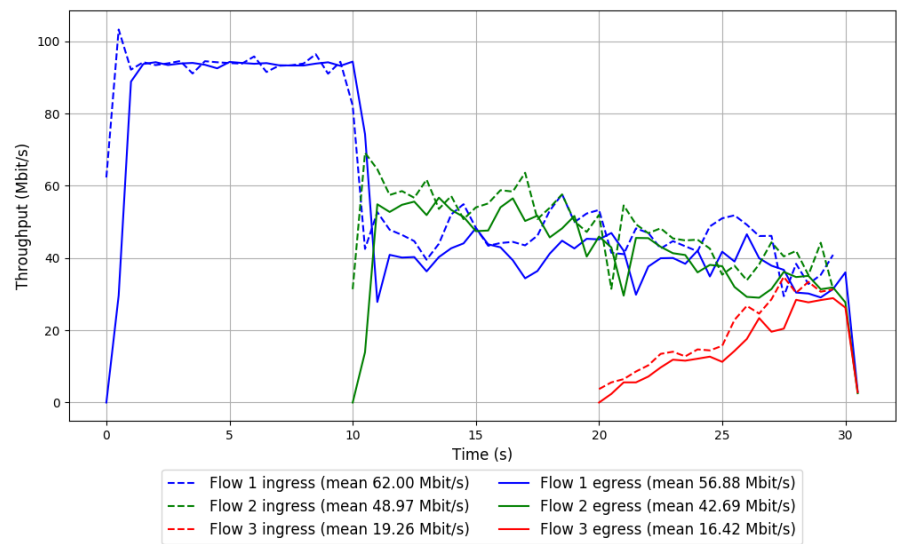


#### Run 4: Statistics of FillP-Sheep

Start at: 2020-02-18 03:06:07  
End at: 2020-02-18 03:06:37  
Local clock offset: 0.681 ms  
Remote clock offset: -0.301 ms

```
# Below is generated by plot.py at 2020-02-18 03:45:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.73 Mbit/s
95th percentile per-packet one-way delay: 69.588 ms
Loss rate: 10.02%
-- Flow 1:
Average throughput: 56.88 Mbit/s
95th percentile per-packet one-way delay: 68.083 ms
Loss rate: 8.18%
-- Flow 2:
Average throughput: 42.69 Mbit/s
95th percentile per-packet one-way delay: 71.068 ms
Loss rate: 12.67%
-- Flow 3:
Average throughput: 16.42 Mbit/s
95th percentile per-packet one-way delay: 69.831 ms
Loss rate: 14.45%
```

Run 4: Report of FillP-Sheep — Data Link



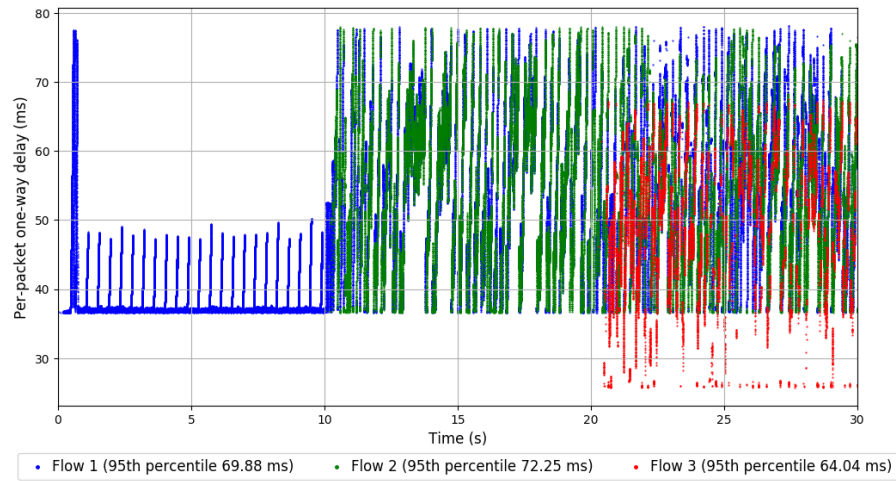
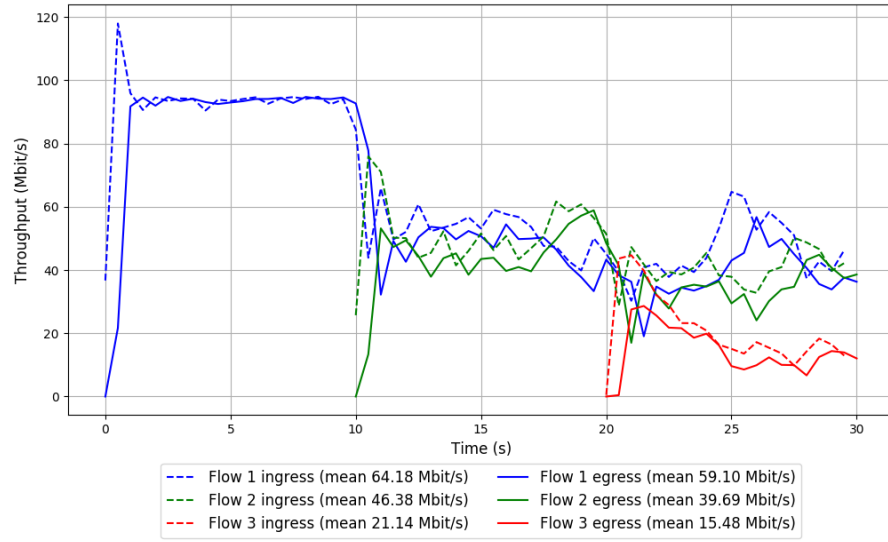


Run 5: Statistics of FillP-Sheep

Start at: 2020-02-18 03:34:34  
End at: 2020-02-18 03:35:04  
Local clock offset: 5.2 ms  
Remote clock offset: -3.574 ms

# Below is generated by plot.py at 2020-02-18 03:45:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.49 Mbit/s  
95th percentile per-packet one-way delay: 70.628 ms  
Loss rate: 11.37%  
-- Flow 1:  
Average throughput: 59.10 Mbit/s  
95th percentile per-packet one-way delay: 69.879 ms  
Loss rate: 8.04%  
-- Flow 2:  
Average throughput: 39.69 Mbit/s  
95th percentile per-packet one-way delay: 72.251 ms  
Loss rate: 14.42%  
-- Flow 3:  
Average throughput: 15.48 Mbit/s  
95th percentile per-packet one-way delay: 64.036 ms  
Loss rate: 28.52%

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

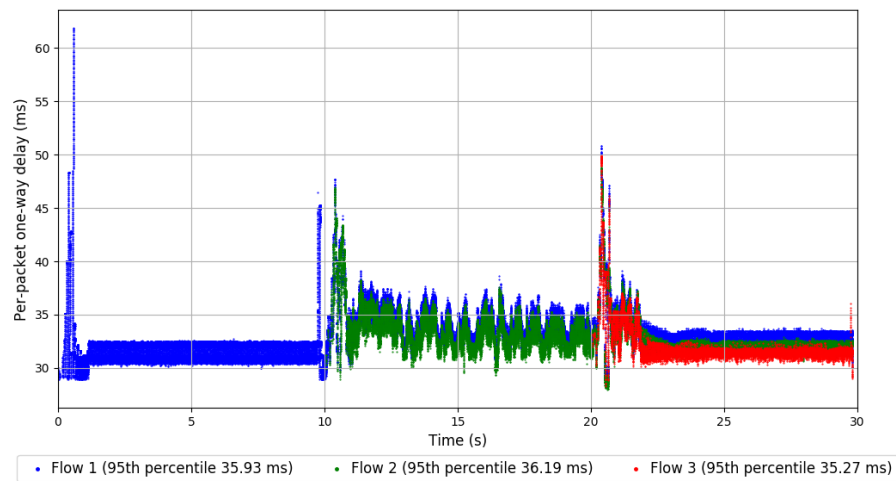
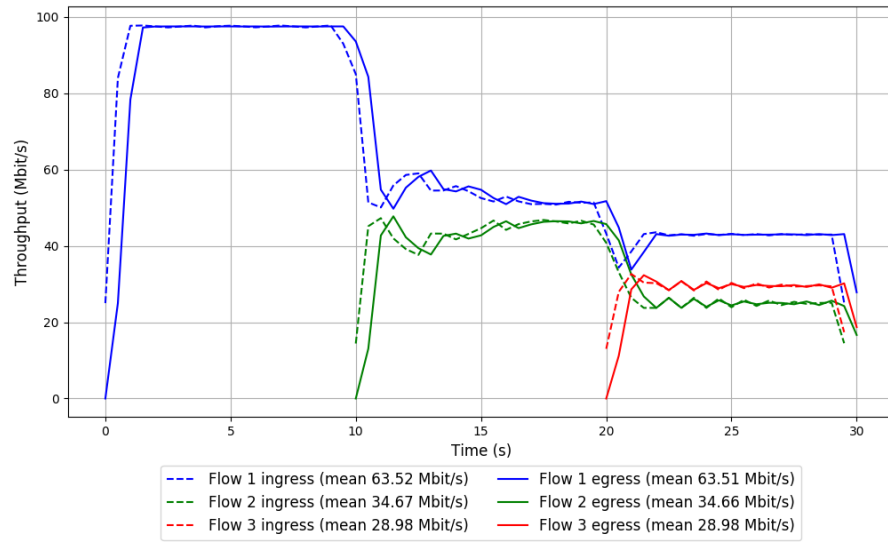


Run 1: Statistics of Indigo

Start at: 2020-02-18 01:42:13  
End at: 2020-02-18 01:42:43  
Local clock offset: 5.966 ms  
Remote clock offset: -4.881 ms

# Below is generated by plot.py at 2020-02-18 03:45:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.96 Mbit/s  
95th percentile per-packet one-way delay: 35.943 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 63.51 Mbit/s  
95th percentile per-packet one-way delay: 35.927 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 34.66 Mbit/s  
95th percentile per-packet one-way delay: 36.191 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 28.98 Mbit/s  
95th percentile per-packet one-way delay: 35.268 ms  
Loss rate: 0.00%

## Run 1: Report of Indigo — Data Link

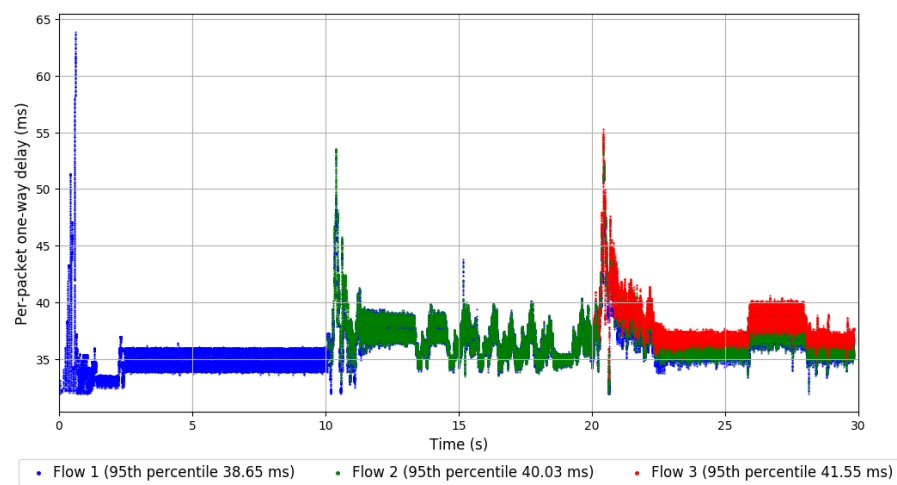
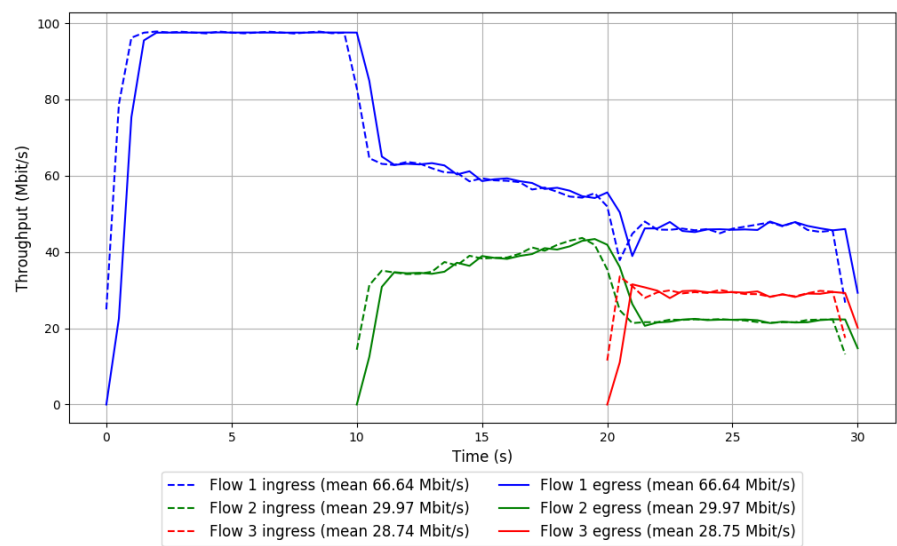


Run 2: Statistics of Indigo

Start at: 2020-02-18 02:10:37  
End at: 2020-02-18 02:11:07  
Local clock offset: 5.15 ms  
Remote clock offset: -2.404 ms

# Below is generated by plot.py at 2020-02-18 03:46:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.92 Mbit/s  
95th percentile per-packet one-way delay: 39.389 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 66.64 Mbit/s  
95th percentile per-packet one-way delay: 38.652 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 29.97 Mbit/s  
95th percentile per-packet one-way delay: 40.034 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 28.75 Mbit/s  
95th percentile per-packet one-way delay: 41.554 ms  
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

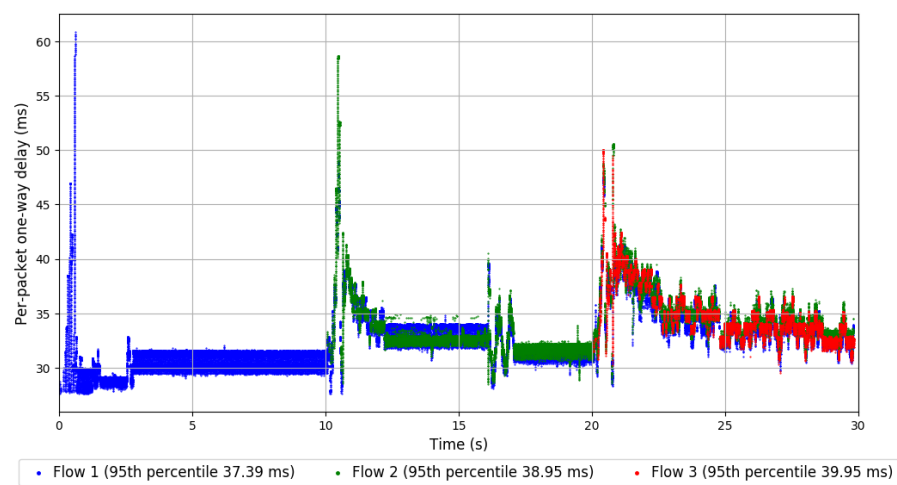
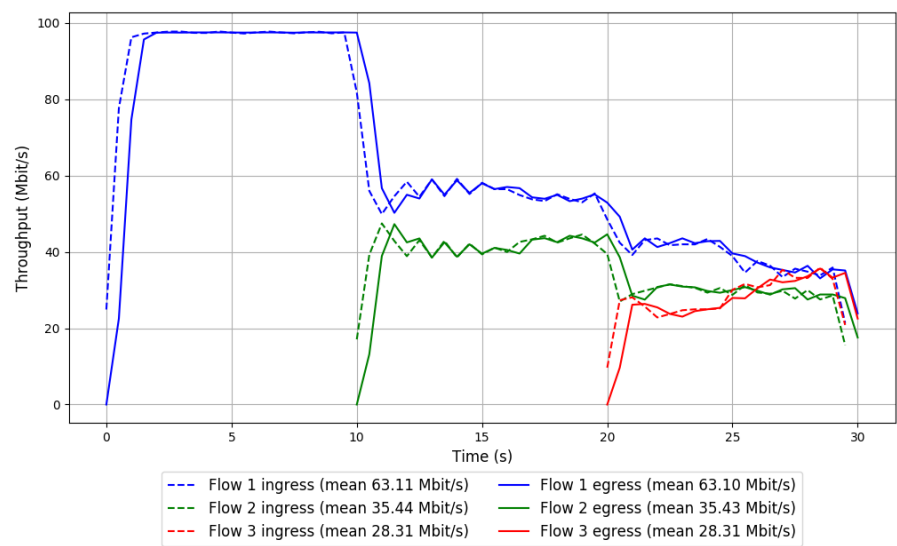


Run 3: Statistics of Indigo

Start at: 2020-02-18 02:38:59  
End at: 2020-02-18 02:39:29  
Local clock offset: 5.61 ms  
Remote clock offset: -4.197 ms

# Below is generated by plot.py at 2020-02-18 03:46:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.85 Mbit/s  
95th percentile per-packet one-way delay: 38.428 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 63.10 Mbit/s  
95th percentile per-packet one-way delay: 37.394 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 35.43 Mbit/s  
95th percentile per-packet one-way delay: 38.951 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 28.31 Mbit/s  
95th percentile per-packet one-way delay: 39.947 ms  
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



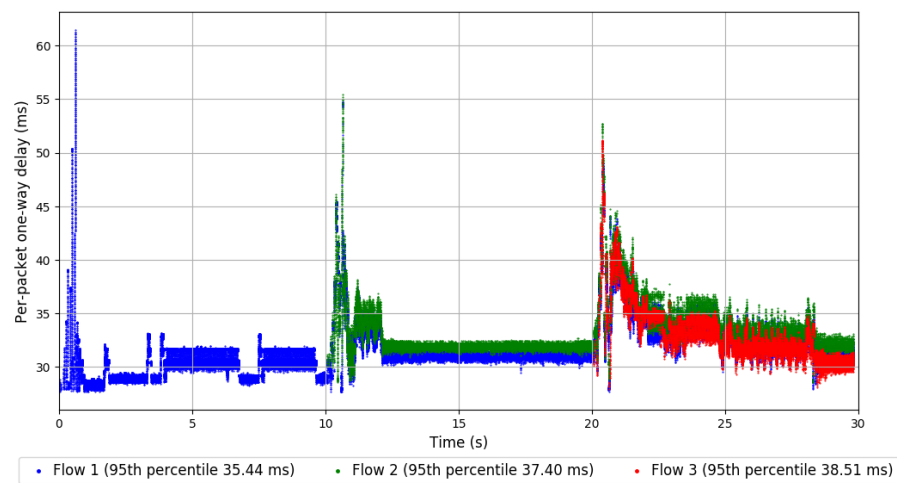
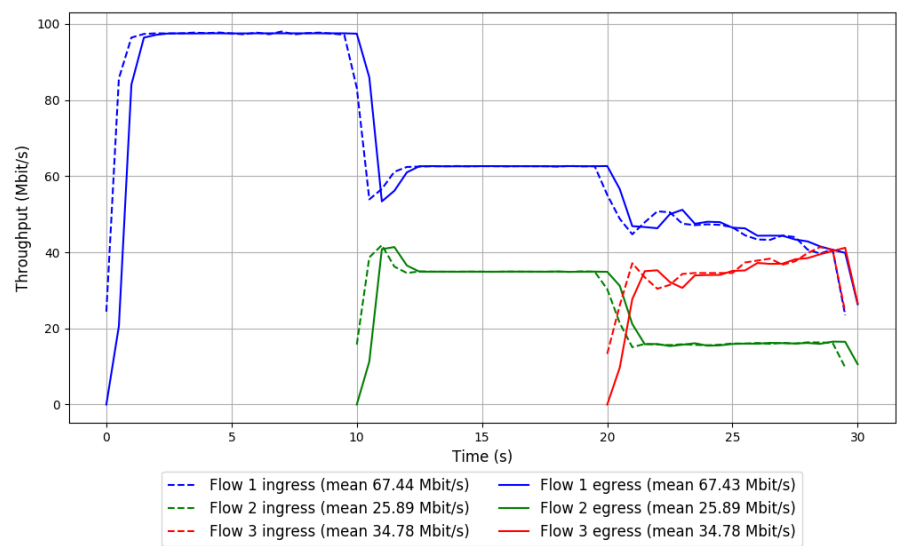


Run 4: Statistics of Indigo

Start at: 2020-02-18 03:07:18  
End at: 2020-02-18 03:07:48  
Local clock offset: 5.945 ms  
Remote clock offset: -2.079 ms

# Below is generated by plot.py at 2020-02-18 03:46:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.97 Mbit/s  
95th percentile per-packet one-way delay: 36.513 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 67.43 Mbit/s  
95th percentile per-packet one-way delay: 35.441 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 25.89 Mbit/s  
95th percentile per-packet one-way delay: 37.396 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 34.78 Mbit/s  
95th percentile per-packet one-way delay: 38.508 ms  
Loss rate: 0.00%

Run 4: Report of Indigo — Data Link

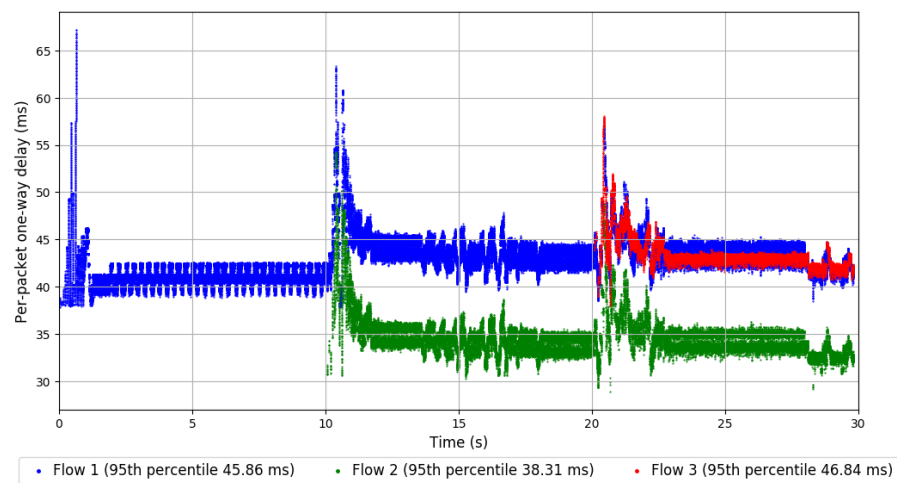
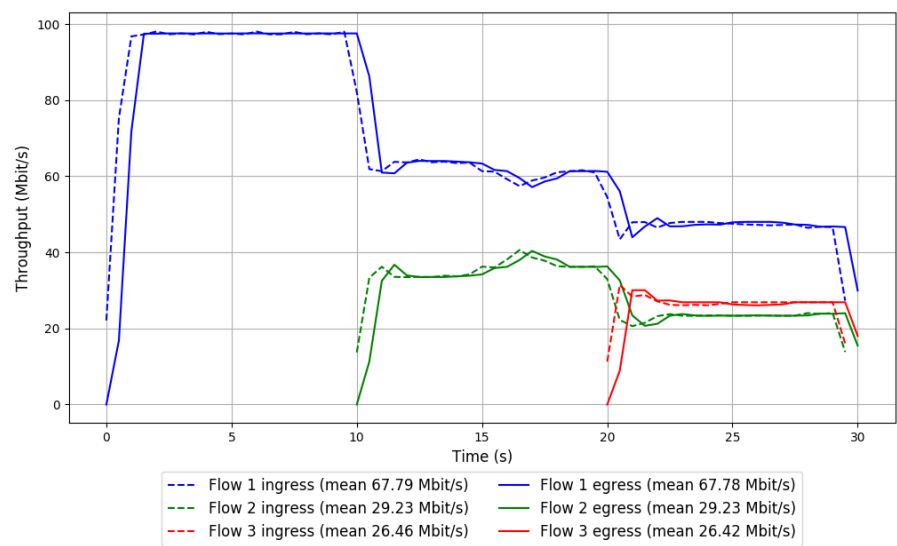


Run 5: Statistics of Indigo

Start at: 2020-02-18 03:35:45  
End at: 2020-02-18 03:36:15  
Local clock offset: 5.135 ms  
Remote clock offset: -1.664 ms

# Below is generated by plot.py at 2020-02-18 03:46:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.79 Mbit/s  
95th percentile per-packet one-way delay: 45.594 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 67.78 Mbit/s  
95th percentile per-packet one-way delay: 45.858 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 29.23 Mbit/s  
95th percentile per-packet one-way delay: 38.311 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 26.42 Mbit/s  
95th percentile per-packet one-way delay: 46.842 ms  
Loss rate: 0.27%

Run 5: Report of Indigo — Data Link

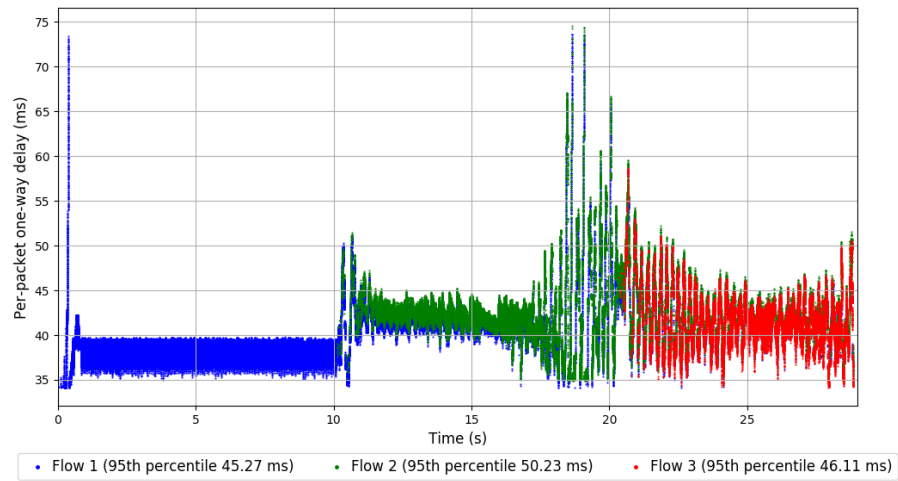
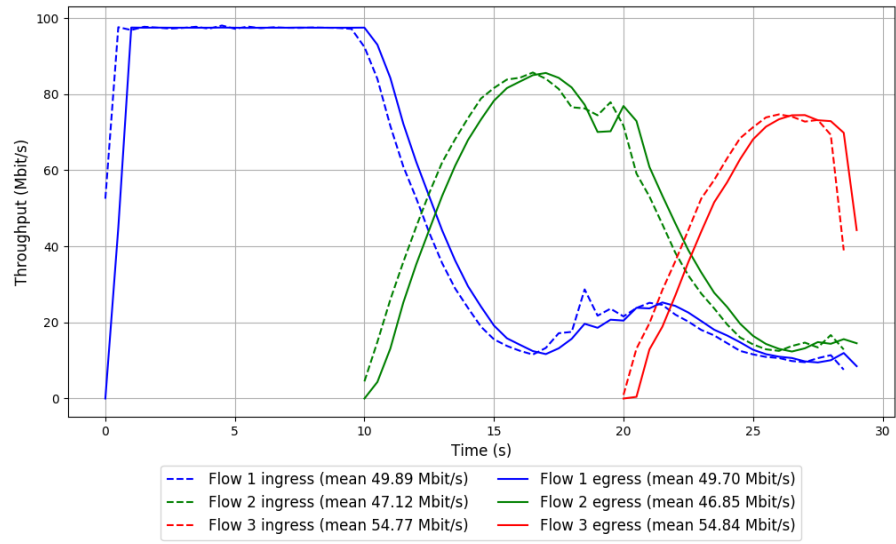


Run 1: Statistics of Indigo-MusesC3

Start at: 2020-02-18 01:20:58  
End at: 2020-02-18 01:21:28  
Local clock offset: 0.825 ms  
Remote clock offset: -4.108 ms

# Below is generated by plot.py at 2020-02-18 03:46:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.36 Mbit/s  
95th percentile per-packet one-way delay: 47.575 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 49.70 Mbit/s  
95th percentile per-packet one-way delay: 45.270 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 46.85 Mbit/s  
95th percentile per-packet one-way delay: 50.226 ms  
Loss rate: 0.55%  
-- Flow 3:  
Average throughput: 54.84 Mbit/s  
95th percentile per-packet one-way delay: 46.110 ms  
Loss rate: 0.01%

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

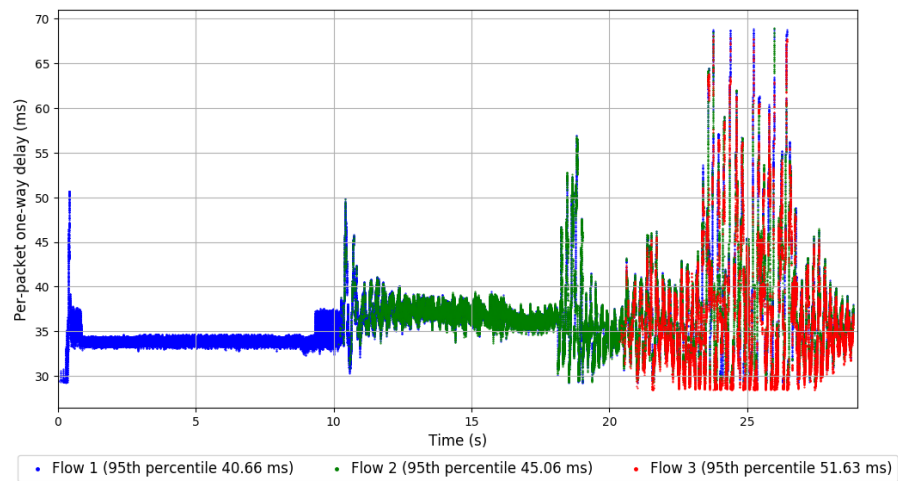
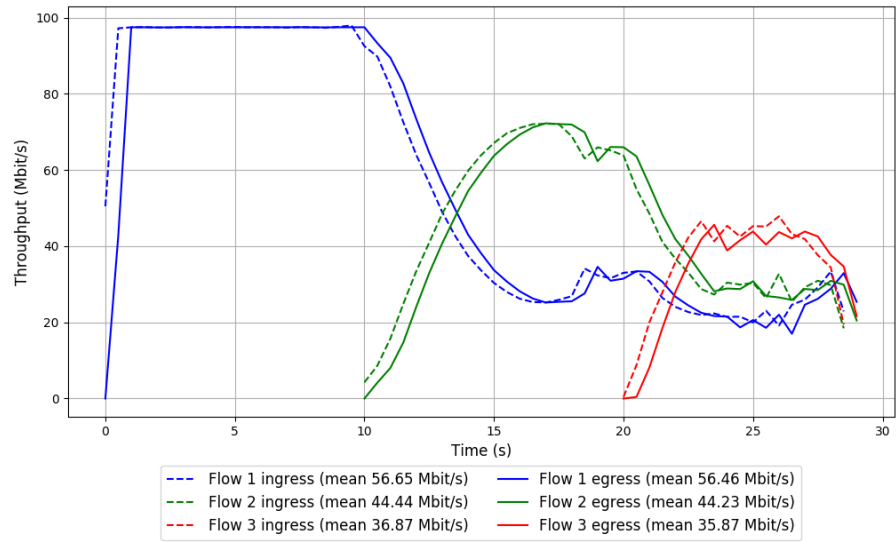


Run 2: Statistics of Indigo-MusesC3

Start at: 2020-02-18 01:49:22  
End at: 2020-02-18 01:49:52  
Local clock offset: 4.299 ms  
Remote clock offset: -6.936 ms

# Below is generated by plot.py at 2020-02-18 03:46:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.68 Mbit/s  
95th percentile per-packet one-way delay: 44.388 ms  
Loss rate: 0.61%  
-- Flow 1:  
Average throughput: 56.46 Mbit/s  
95th percentile per-packet one-way delay: 40.661 ms  
Loss rate: 0.30%  
-- Flow 2:  
Average throughput: 44.23 Mbit/s  
95th percentile per-packet one-way delay: 45.065 ms  
Loss rate: 0.44%  
-- Flow 3:  
Average throughput: 35.87 Mbit/s  
95th percentile per-packet one-way delay: 51.631 ms  
Loss rate: 2.69%

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



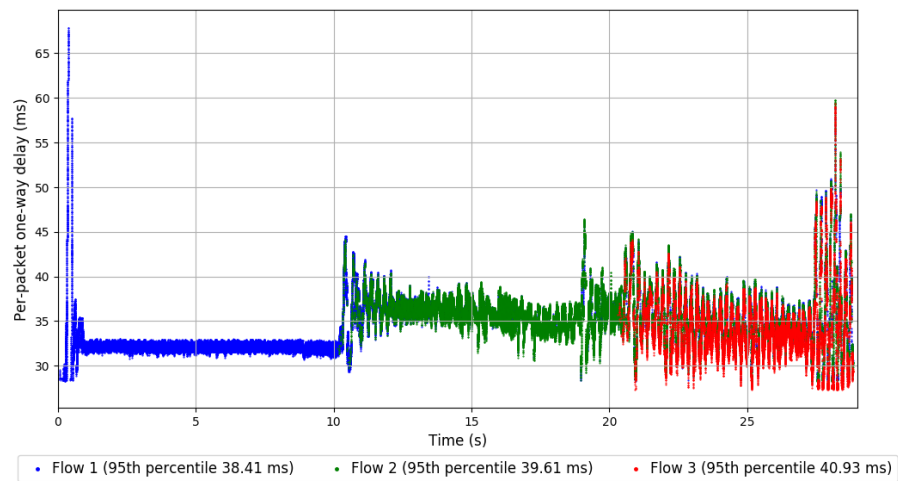
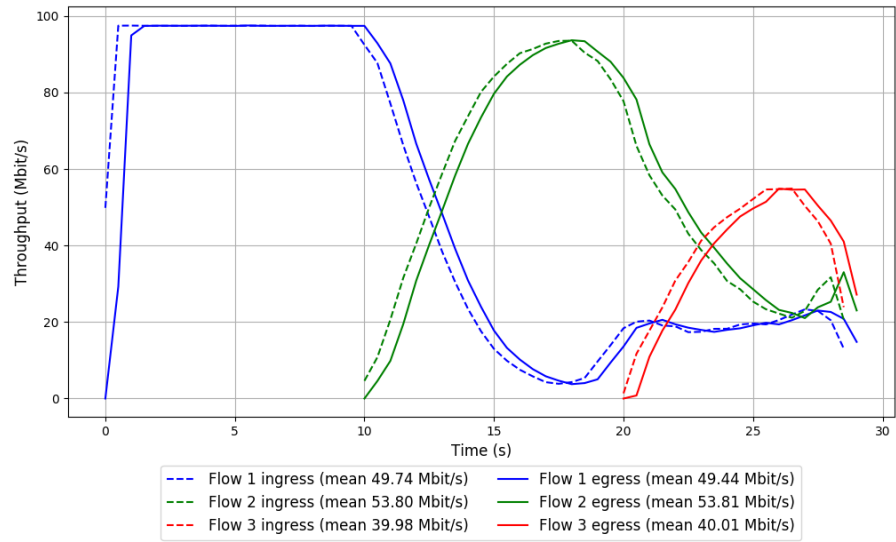


Run 3: Statistics of Indigo-MusesC3

Start at: 2020-02-18 02:17:46  
End at: 2020-02-18 02:18:16  
Local clock offset: 5.006 ms  
Remote clock offset: -6.055 ms

# Below is generated by plot.py at 2020-02-18 03:47:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.17 Mbit/s  
95th percentile per-packet one-way delay: 39.125 ms  
Loss rate: 0.30%  
-- Flow 1:  
Average throughput: 49.44 Mbit/s  
95th percentile per-packet one-way delay: 38.412 ms  
Loss rate: 0.59%  
-- Flow 2:  
Average throughput: 53.81 Mbit/s  
95th percentile per-packet one-way delay: 39.609 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 40.01 Mbit/s  
95th percentile per-packet one-way delay: 40.933 ms  
Loss rate: 0.00%

### Run 3: Report of Indigo-MusesC3 — Data Link

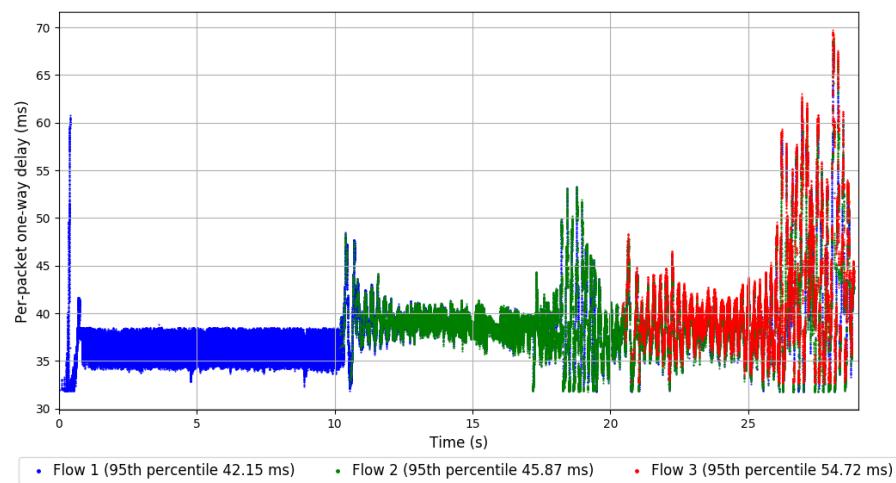
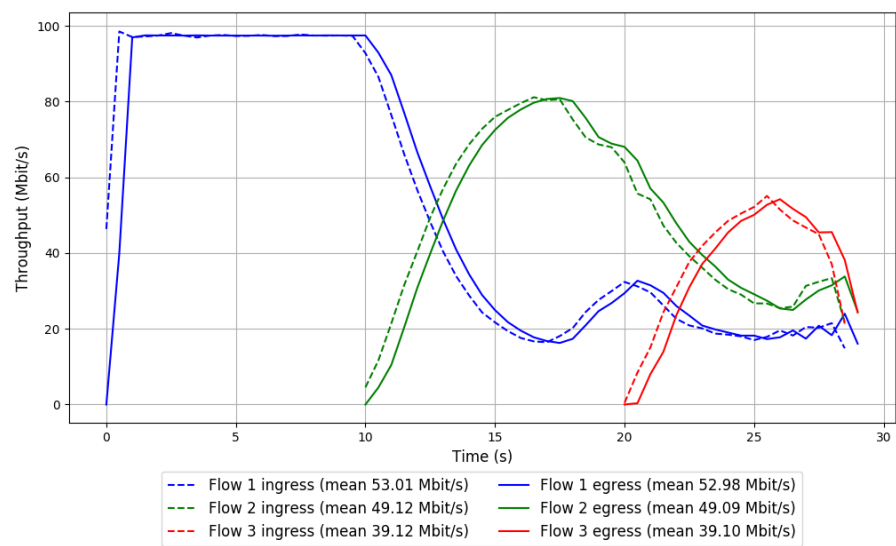


Run 4: Statistics of Indigo-MusesC3

Start at: 2020-02-18 02:46:05  
End at: 2020-02-18 02:46:35  
Local clock offset: 3.628 ms  
Remote clock offset: -0.681 ms

# Below is generated by plot.py at 2020-02-18 03:47:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.28 Mbit/s  
95th percentile per-packet one-way delay: 45.587 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 52.98 Mbit/s  
95th percentile per-packet one-way delay: 42.147 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 49.09 Mbit/s  
95th percentile per-packet one-way delay: 45.874 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 39.10 Mbit/s  
95th percentile per-packet one-way delay: 54.724 ms  
Loss rate: 0.00%

Run 4: Report of Indigo-MusesC3 — Data Link

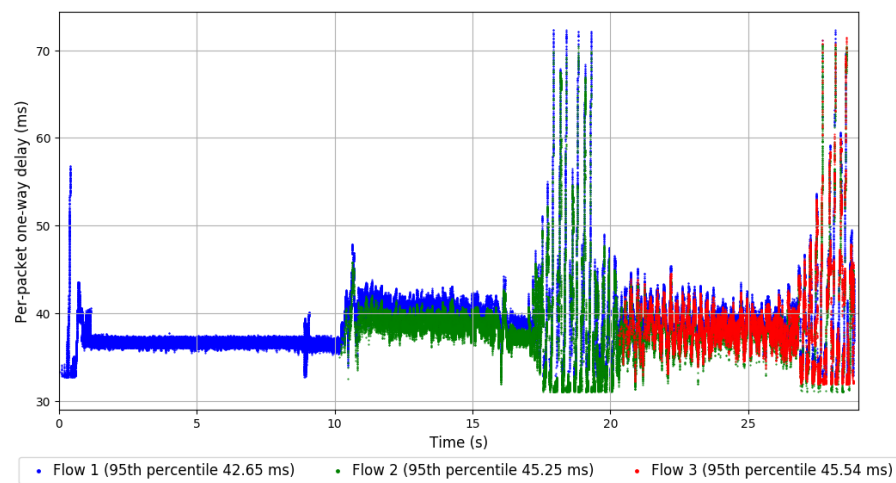
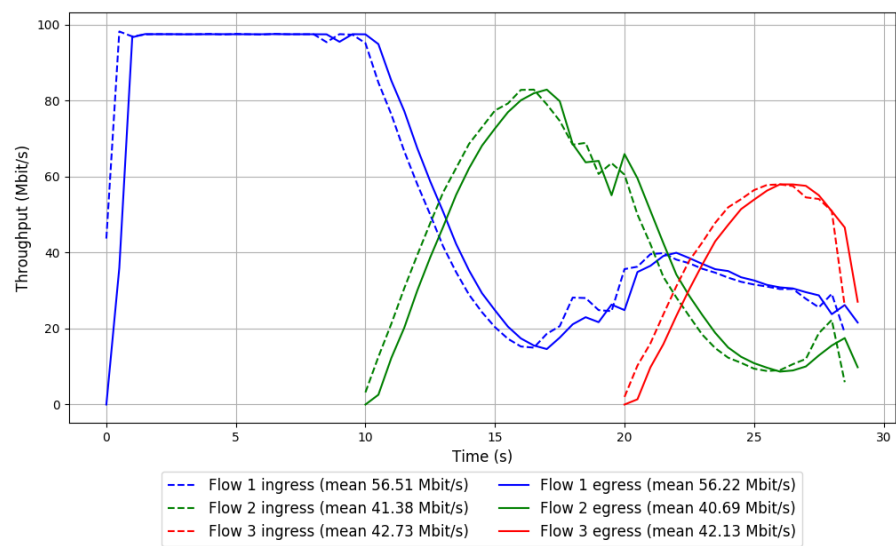


Run 5: Statistics of Indigo-MusesC3

Start at: 2020-02-18 03:14:23  
End at: 2020-02-18 03:14:53  
Local clock offset: 1.478 ms  
Remote clock offset: -2.315 ms

# Below is generated by plot.py at 2020-02-18 03:47:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.11 Mbit/s  
95th percentile per-packet one-way delay: 43.753 ms  
Loss rate: 0.92%  
-- Flow 1:  
Average throughput: 56.22 Mbit/s  
95th percentile per-packet one-way delay: 42.654 ms  
Loss rate: 0.47%  
-- Flow 2:  
Average throughput: 40.69 Mbit/s  
95th percentile per-packet one-way delay: 45.253 ms  
Loss rate: 1.65%  
-- Flow 3:  
Average throughput: 42.13 Mbit/s  
95th percentile per-packet one-way delay: 45.544 ms  
Loss rate: 1.38%

Run 5: Report of Indigo-MusesC3 — Data Link

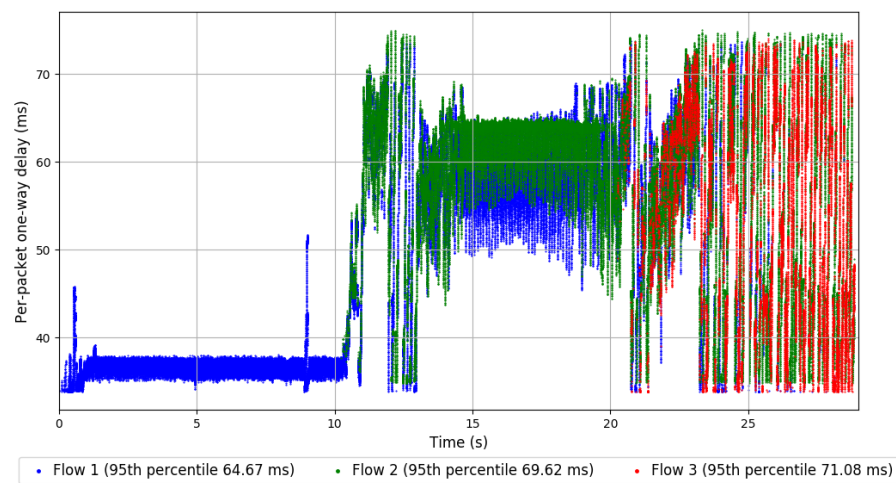
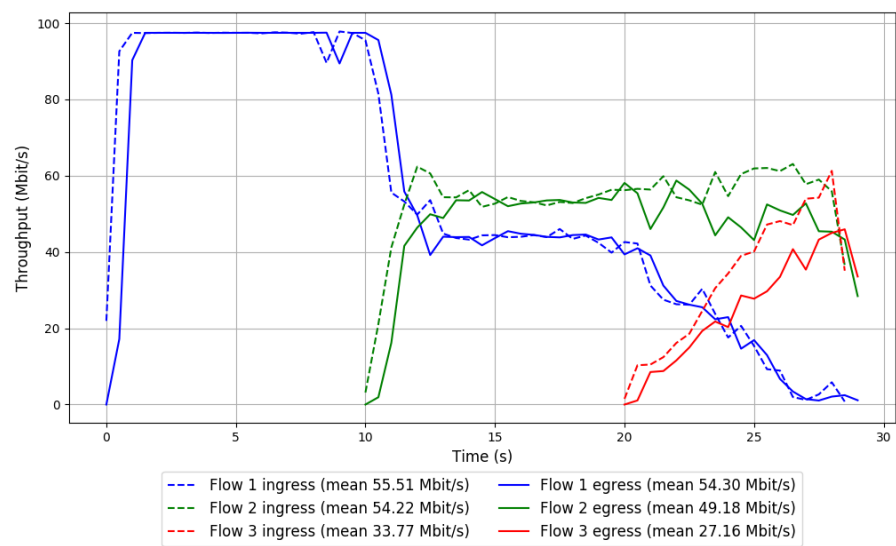


Run 1: Statistics of Indigo-MusesC5

Start at: 2020-02-18 01:32:44  
End at: 2020-02-18 01:33:14  
Local clock offset: 1.051 ms  
Remote clock offset: -4.028 ms

# Below is generated by plot.py at 2020-02-18 03:47:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.20 Mbit/s  
95th percentile per-packet one-way delay: 67.916 ms  
Loss rate: 6.40%  
-- Flow 1:  
Average throughput: 54.30 Mbit/s  
95th percentile per-packet one-way delay: 64.669 ms  
Loss rate: 2.16%  
-- Flow 2:  
Average throughput: 49.18 Mbit/s  
95th percentile per-packet one-way delay: 69.619 ms  
Loss rate: 9.28%  
-- Flow 3:  
Average throughput: 27.16 Mbit/s  
95th percentile per-packet one-way delay: 71.078 ms  
Loss rate: 19.69%

Run 1: Report of Indigo-MusesC5 — Data Link



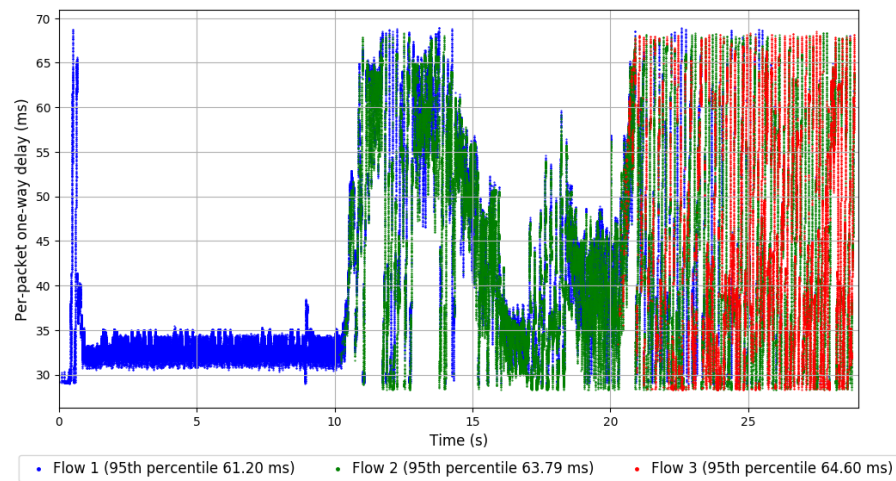
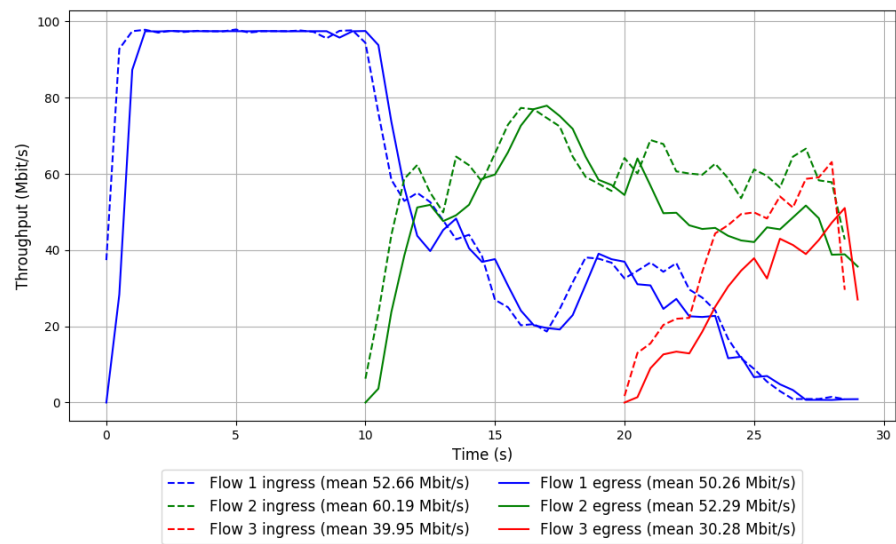


Run 2: Statistics of Indigo-MusesC5

Start at: 2020-02-18 02:01:10  
End at: 2020-02-18 02:01:40  
Local clock offset: 4.632 ms  
Remote clock offset: -5.883 ms

# Below is generated by plot.py at 2020-02-18 03:47:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.11 Mbit/s  
95th percentile per-packet one-way delay: 62.981 ms  
Loss rate: 9.96%  
-- Flow 1:  
Average throughput: 50.26 Mbit/s  
95th percentile per-packet one-way delay: 61.199 ms  
Loss rate: 4.49%  
-- Flow 2:  
Average throughput: 52.29 Mbit/s  
95th percentile per-packet one-way delay: 63.794 ms  
Loss rate: 13.07%  
-- Flow 3:  
Average throughput: 30.28 Mbit/s  
95th percentile per-packet one-way delay: 64.600 ms  
Loss rate: 23.96%

Run 2: Report of Indigo-MusesC5 — Data Link

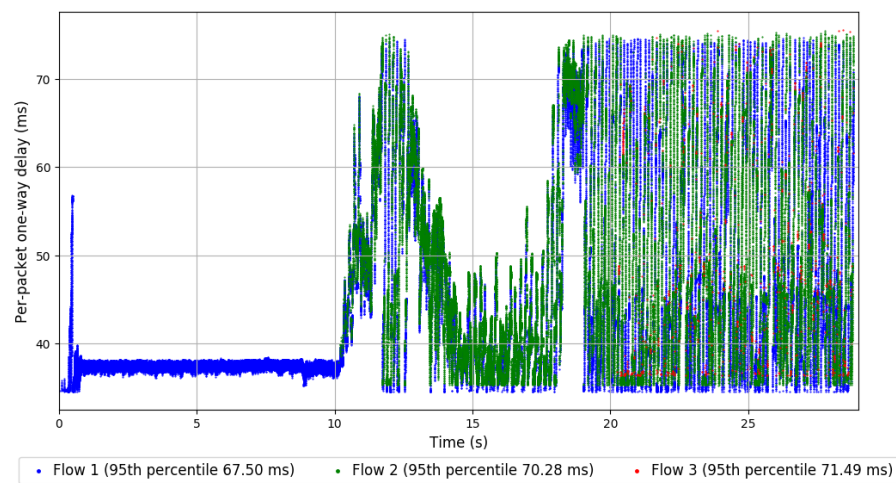
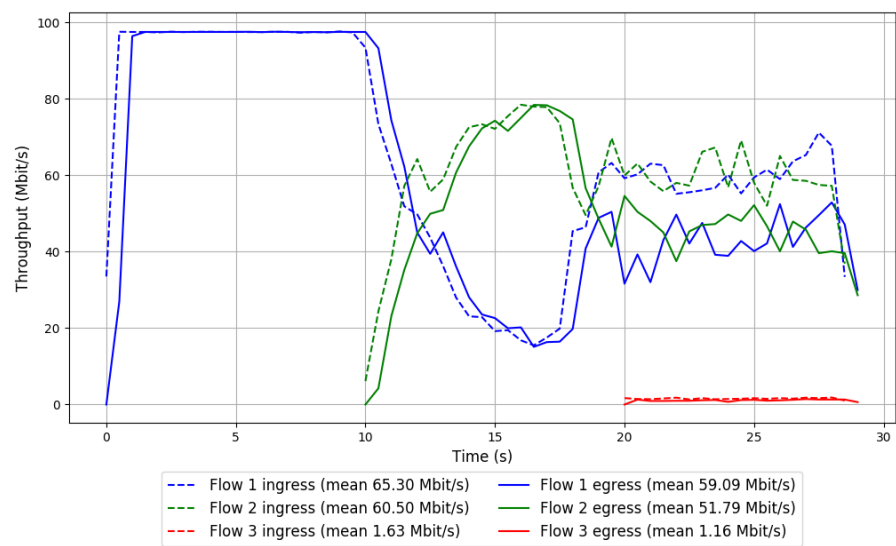


Run 3: Statistics of Indigo-MusesC5

Start at: 2020-02-18 02:29:31  
End at: 2020-02-18 02:30:01  
Local clock offset: 0.127 ms  
Remote clock offset: -3.418 ms

# Below is generated by plot.py at 2020-02-18 03:47:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.07 Mbit/s  
95th percentile per-packet one-way delay: 69.022 ms  
Loss rate: 11.39%  
-- Flow 1:  
Average throughput: 59.09 Mbit/s  
95th percentile per-packet one-way delay: 67.502 ms  
Loss rate: 9.47%  
-- Flow 2:  
Average throughput: 51.79 Mbit/s  
95th percentile per-packet one-way delay: 70.278 ms  
Loss rate: 14.35%  
-- Flow 3:  
Average throughput: 1.16 Mbit/s  
95th percentile per-packet one-way delay: 71.493 ms  
Loss rate: 29.05%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2020-02-18 02:57:50

End at: 2020-02-18 02:58:20

Local clock offset: 5.528 ms

Remote clock offset: 1.693 ms

# Below is generated by plot.py at 2020-02-18 03:47:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.65 Mbit/s

95th percentile per-packet one-way delay: 65.067 ms

Loss rate: 12.27%

-- Flow 1:

Average throughput: 58.85 Mbit/s

95th percentile per-packet one-way delay: 64.419 ms

Loss rate: 9.81%

-- Flow 2:

Average throughput: 51.72 Mbit/s

95th percentile per-packet one-way delay: 65.678 ms

Loss rate: 16.03%

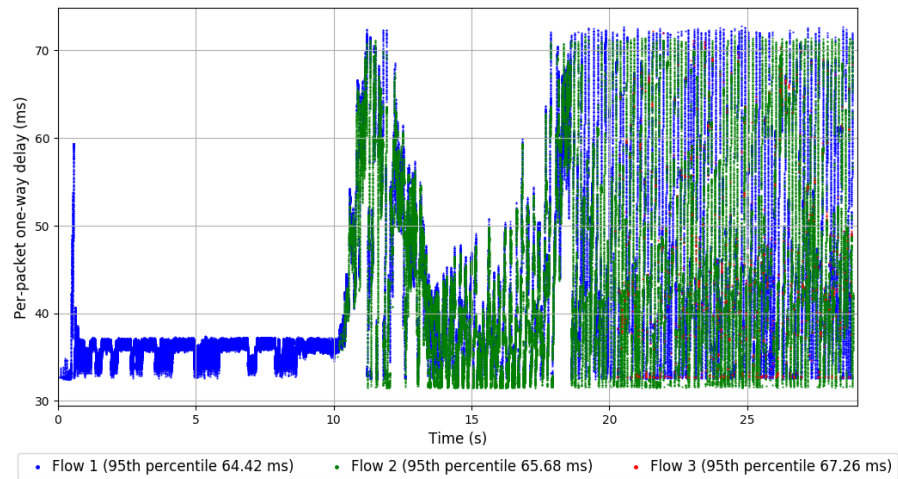
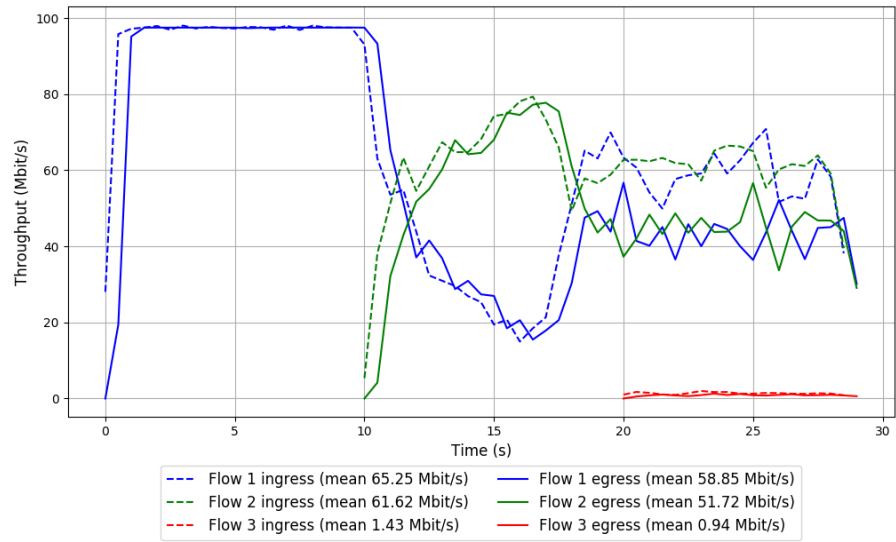
-- Flow 3:

Average throughput: 0.94 Mbit/s

95th percentile per-packet one-way delay: 67.260 ms

Loss rate: 34.72%

#### Run 4: Report of Indigo-MusesC5 — Data Link

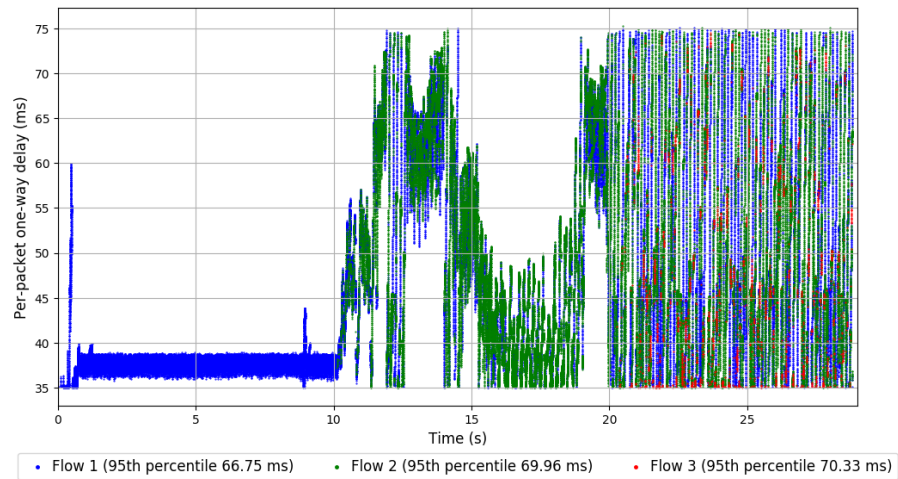
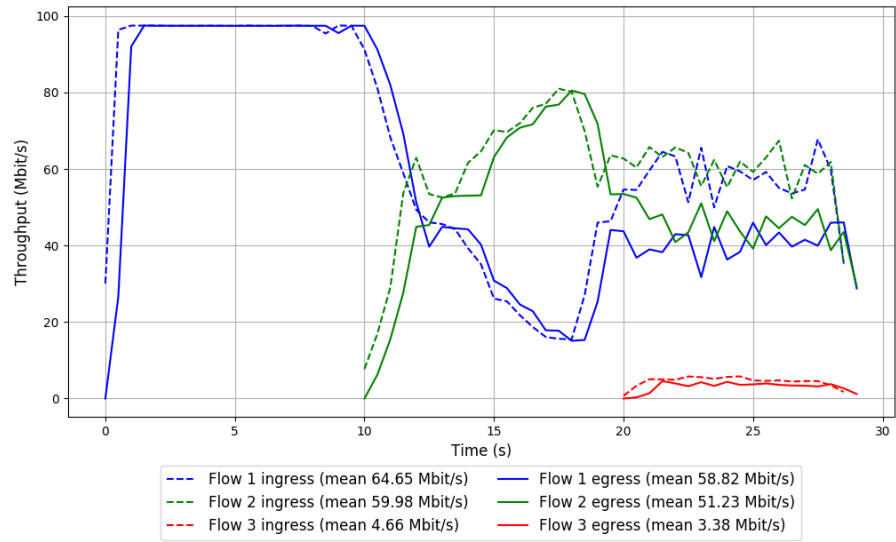


Run 5: Statistics of Indigo-MusesC5

Start at: 2020-02-18 03:26:10  
End at: 2020-02-18 03:26:40  
Local clock offset: 0.776 ms  
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2020-02-18 03:48:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.15 Mbit/s  
95th percentile per-packet one-way delay: 68.461 ms  
Loss rate: 11.34%  
-- Flow 1:  
Average throughput: 58.82 Mbit/s  
95th percentile per-packet one-way delay: 66.750 ms  
Loss rate: 9.02%  
-- Flow 2:  
Average throughput: 51.23 Mbit/s  
95th percentile per-packet one-way delay: 69.957 ms  
Loss rate: 14.59%  
-- Flow 3:  
Average throughput: 3.38 Mbit/s  
95th percentile per-packet one-way delay: 70.329 ms  
Loss rate: 27.70%

# Run 5: Report of Indigo-MusesC5 — Data Link



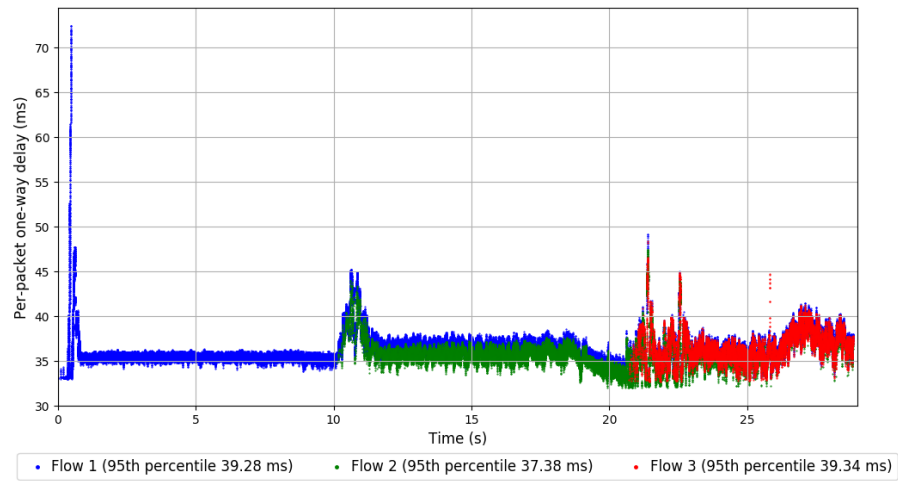
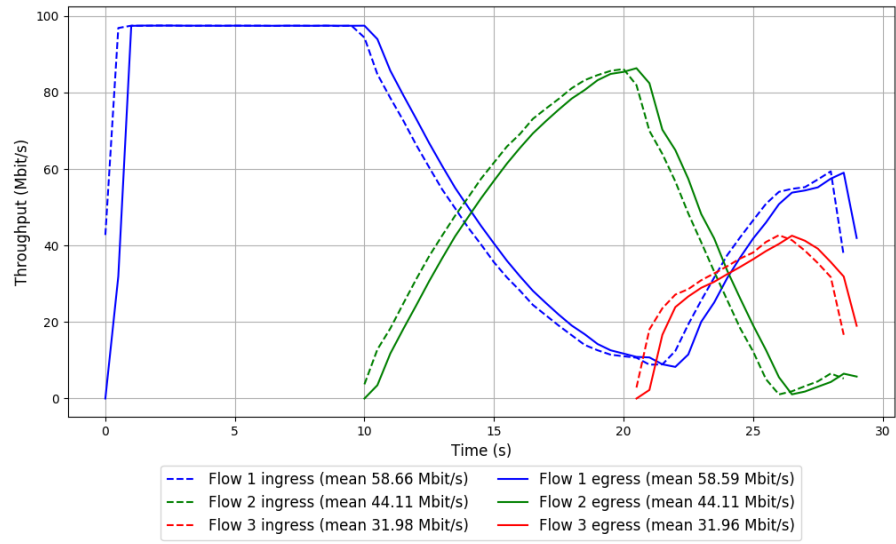


Run 1: Statistics of Indigo-MusesD

Start at: 2020-02-18 01:18:38  
End at: 2020-02-18 01:19:08  
Local clock offset: 1.136 ms  
Remote clock offset: -5.917 ms

# Below is generated by plot.py at 2020-02-18 03:48:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.30 Mbit/s  
95th percentile per-packet one-way delay: 38.916 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 58.59 Mbit/s  
95th percentile per-packet one-way delay: 39.283 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 44.11 Mbit/s  
95th percentile per-packet one-way delay: 37.377 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 31.96 Mbit/s  
95th percentile per-packet one-way delay: 39.343 ms  
Loss rate: 0.00%

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

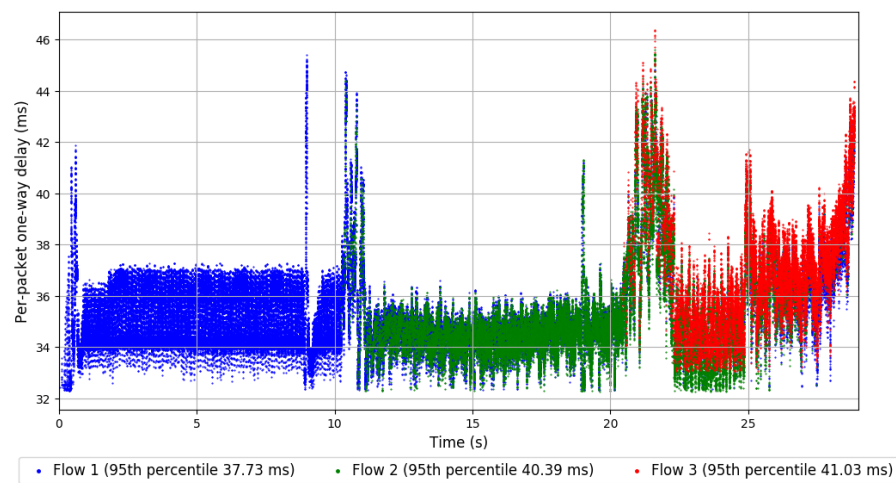
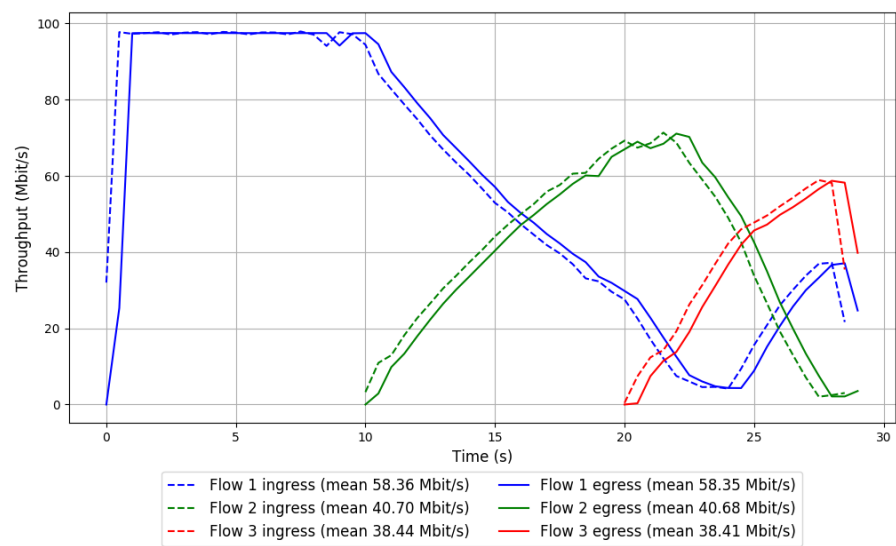


Run 2: Statistics of Indigo-MusesD

Start at: 2020-02-18 01:47:00  
End at: 2020-02-18 01:47:30  
Local clock offset: 0.879 ms  
Remote clock offset: -5.583 ms

# Below is generated by plot.py at 2020-02-18 03:48:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.95 Mbit/s  
95th percentile per-packet one-way delay: 39.270 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 58.35 Mbit/s  
95th percentile per-packet one-way delay: 37.730 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 40.68 Mbit/s  
95th percentile per-packet one-way delay: 40.390 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 38.41 Mbit/s  
95th percentile per-packet one-way delay: 41.035 ms  
Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link

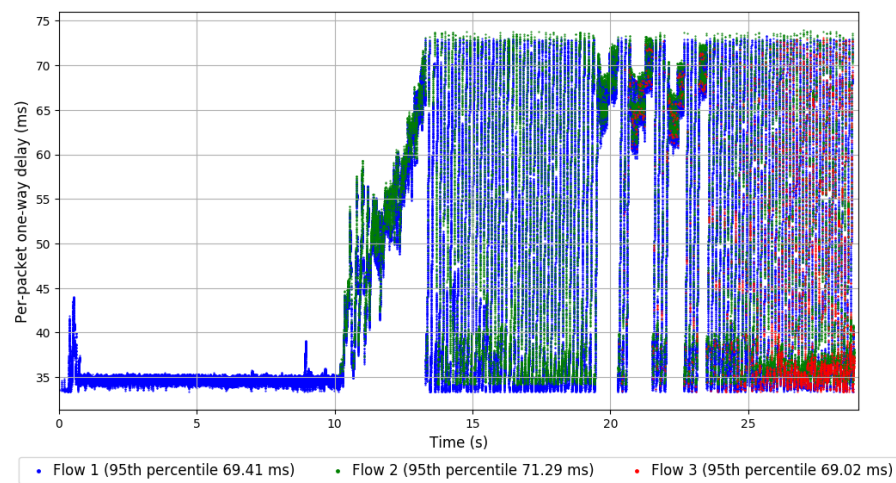
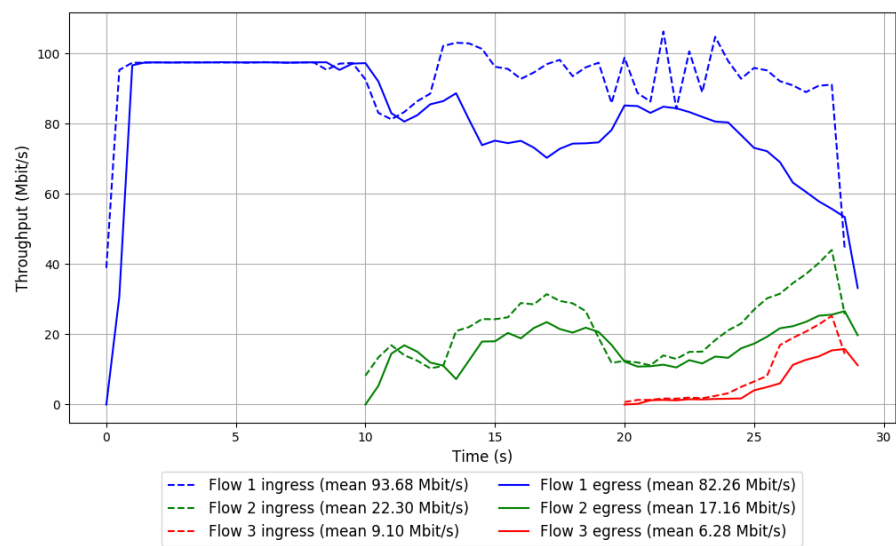


Run 3: Statistics of Indigo-MusesD

Start at: 2020-02-18 02:15:22  
End at: 2020-02-18 02:15:52  
Local clock offset: 1.746 ms  
Remote clock offset: -3.399 ms

# Below is generated by plot.py at 2020-02-18 03:48:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.24 Mbit/s  
95th percentile per-packet one-way delay: 69.695 ms  
Loss rate: 14.05%  
-- Flow 1:  
Average throughput: 82.26 Mbit/s  
95th percentile per-packet one-way delay: 69.412 ms  
Loss rate: 12.17%  
-- Flow 2:  
Average throughput: 17.16 Mbit/s  
95th percentile per-packet one-way delay: 71.294 ms  
Loss rate: 23.05%  
-- Flow 3:  
Average throughput: 6.28 Mbit/s  
95th percentile per-packet one-way delay: 69.021 ms  
Loss rate: 30.98%

Run 3: Report of Indigo-MusesD — Data Link

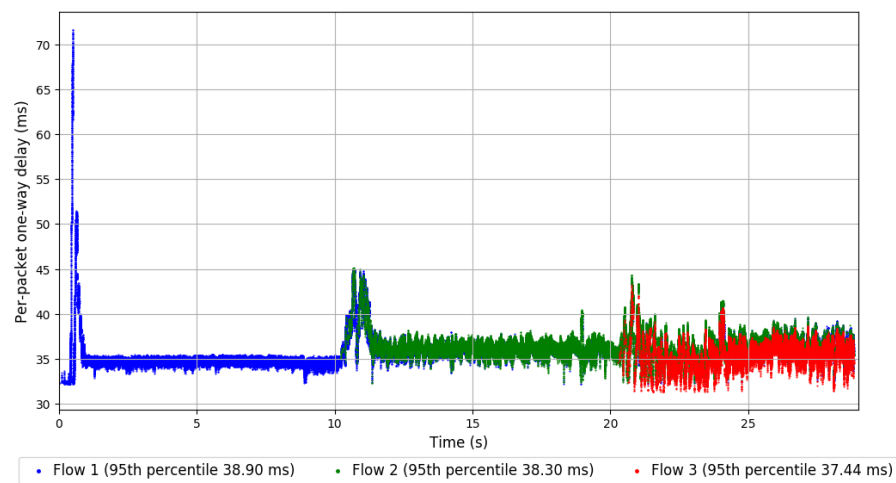
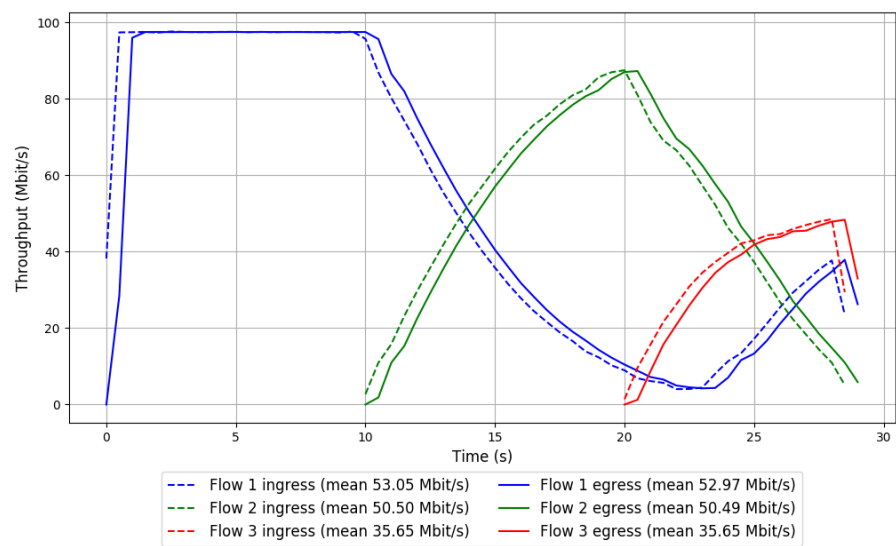


Run 4: Statistics of Indigo-MusesD

Start at: 2020-02-18 02:43:44  
End at: 2020-02-18 02:44:14  
Local clock offset: 0.987 ms  
Remote clock offset: -3.205 ms

# Below is generated by plot.py at 2020-02-18 03:48:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.24 Mbit/s  
95th percentile per-packet one-way delay: 38.317 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 52.97 Mbit/s  
95th percentile per-packet one-way delay: 38.897 ms  
Loss rate: 0.15%  
-- Flow 2:  
Average throughput: 50.49 Mbit/s  
95th percentile per-packet one-way delay: 38.303 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 35.65 Mbit/s  
95th percentile per-packet one-way delay: 37.436 ms  
Loss rate: 0.00%

Run 4: Report of Indigo-MusesD — Data Link





Run 5: Statistics of Indigo-MusesD

Start at: 2020-02-18 03:12:03

End at: 2020-02-18 03:12:33

Local clock offset: 5.033 ms

Remote clock offset: -0.84 ms

# Below is generated by plot.py at 2020-02-18 03:48:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.06 Mbit/s

95th percentile per-packet one-way delay: 62.374 ms

Loss rate: 2.43%

-- Flow 1:

Average throughput: 70.88 Mbit/s

95th percentile per-packet one-way delay: 63.328 ms

Loss rate: 3.02%

-- Flow 2:

Average throughput: 25.16 Mbit/s

95th percentile per-packet one-way delay: 56.796 ms

Loss rate: 1.11%

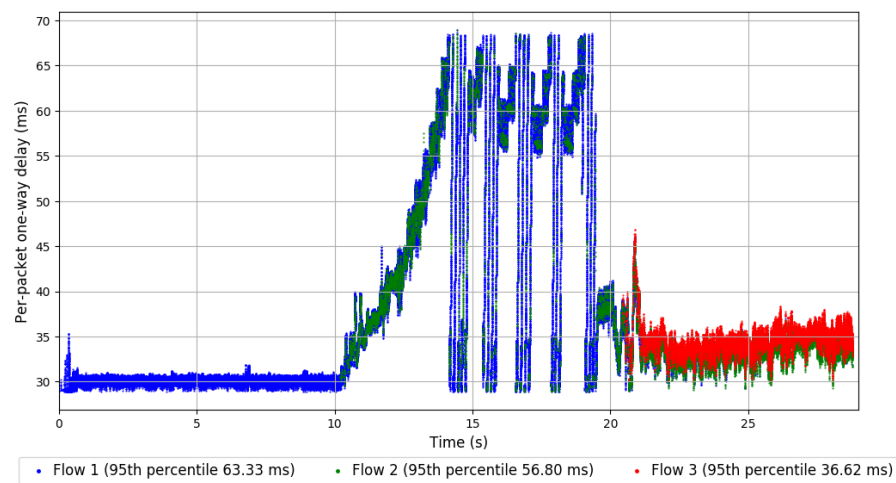
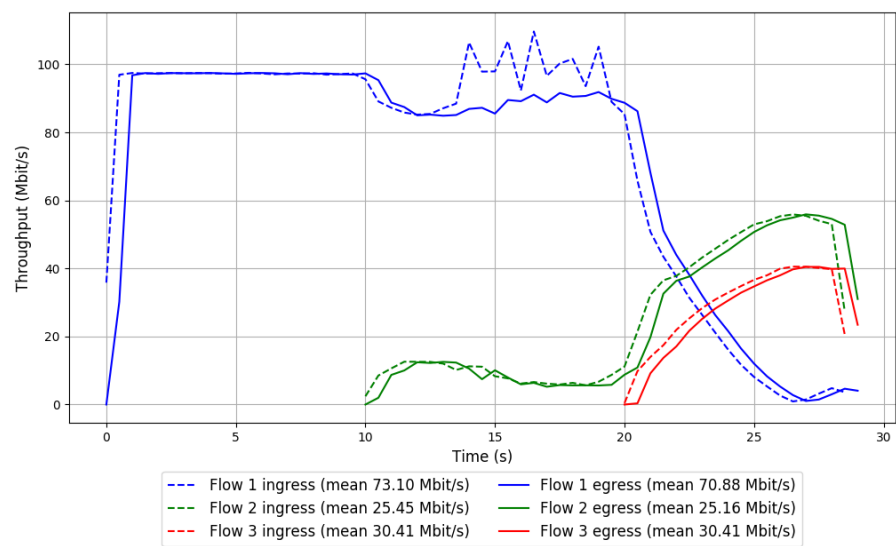
-- Flow 3:

Average throughput: 30.41 Mbit/s

95th percentile per-packet one-way delay: 36.615 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2020-02-18 01:36:19

End at: 2020-02-18 01:36:49

Local clock offset: 6.148 ms

Remote clock offset: -5.89 ms

# Below is generated by plot.py at 2020-02-18 03:48:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.65 Mbit/s

95th percentile per-packet one-way delay: 61.813 ms

Loss rate: 8.66%

-- Flow 1:

Average throughput: 61.36 Mbit/s

95th percentile per-packet one-way delay: 60.452 ms

Loss rate: 6.05%

-- Flow 2:

Average throughput: 47.29 Mbit/s

95th percentile per-packet one-way delay: 62.792 ms

Loss rate: 12.07%

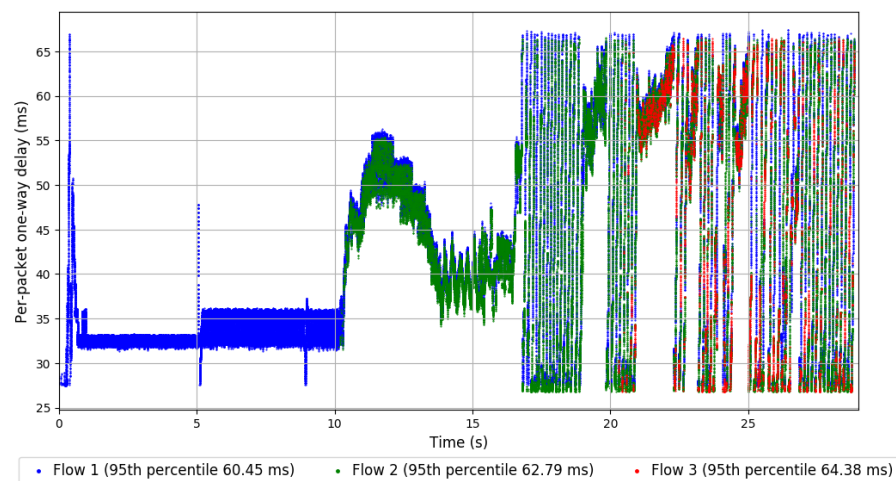
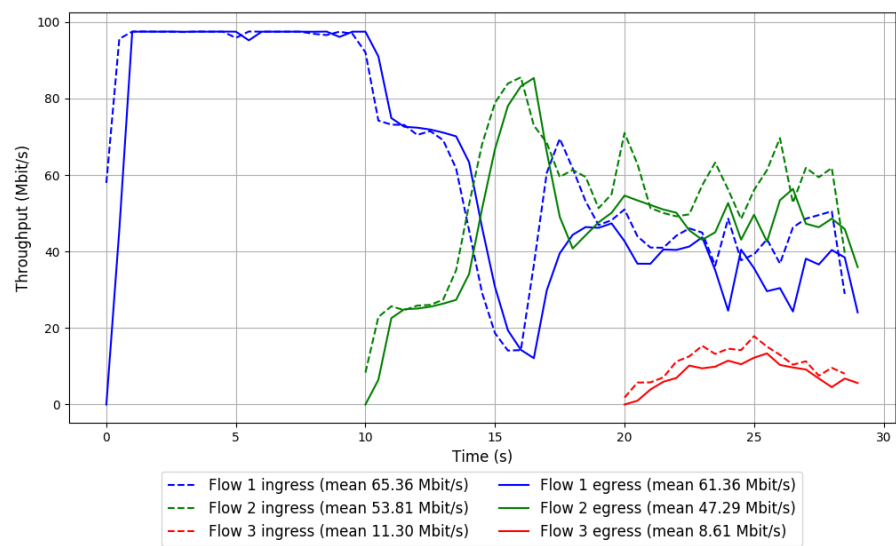
-- Flow 3:

Average throughput: 8.61 Mbit/s

95th percentile per-packet one-way delay: 64.381 ms

Loss rate: 23.95%

Run 1: Report of Indigo-MusesT — Data Link

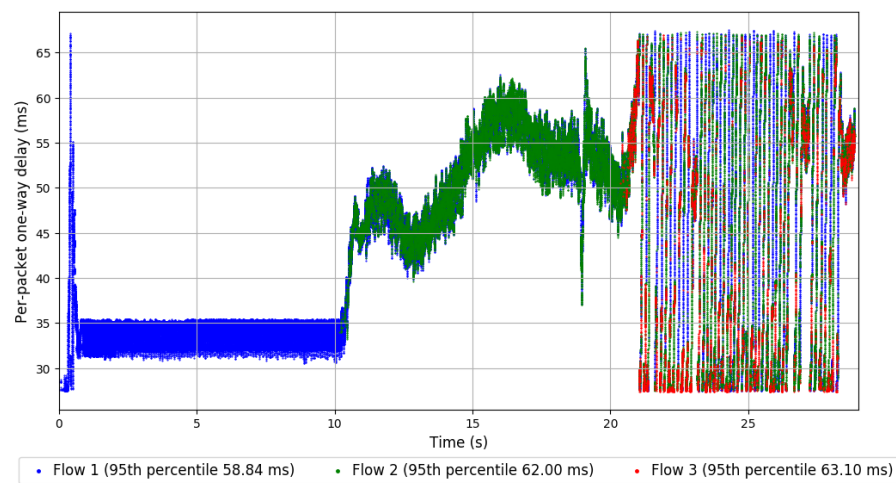
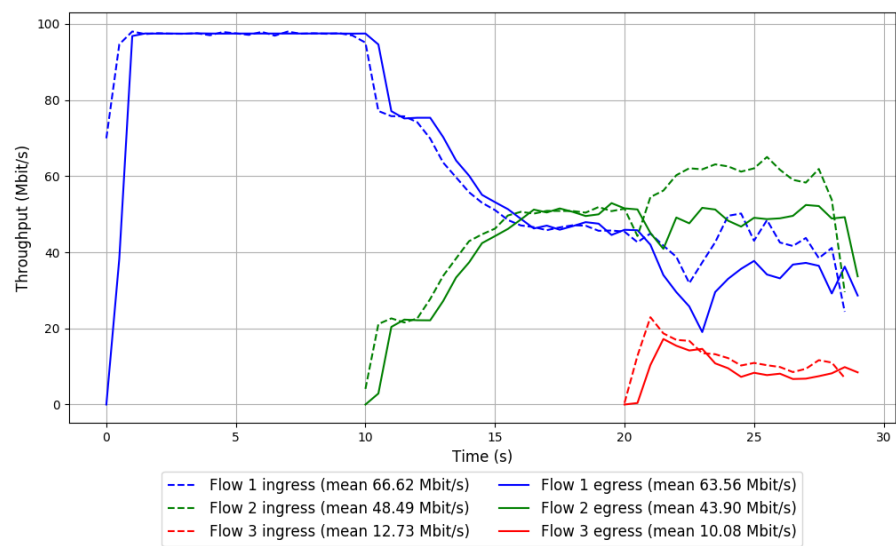


Run 2: Statistics of Indigo-MusesT

Start at: 2020-02-18 02:04:44  
End at: 2020-02-18 02:05:14  
Local clock offset: 5.626 ms  
Remote clock offset: -6.496 ms

# Below is generated by plot.py at 2020-02-18 03:48:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.99 Mbit/s  
95th percentile per-packet one-way delay: 60.171 ms  
Loss rate: 6.59%  
-- Flow 1:  
Average throughput: 63.56 Mbit/s  
95th percentile per-packet one-way delay: 58.845 ms  
Loss rate: 4.50%  
-- Flow 2:  
Average throughput: 43.90 Mbit/s  
95th percentile per-packet one-way delay: 61.997 ms  
Loss rate: 9.35%  
-- Flow 3:  
Average throughput: 10.08 Mbit/s  
95th percentile per-packet one-way delay: 63.103 ms  
Loss rate: 20.76%

Run 2: Report of Indigo-MusesT — Data Link

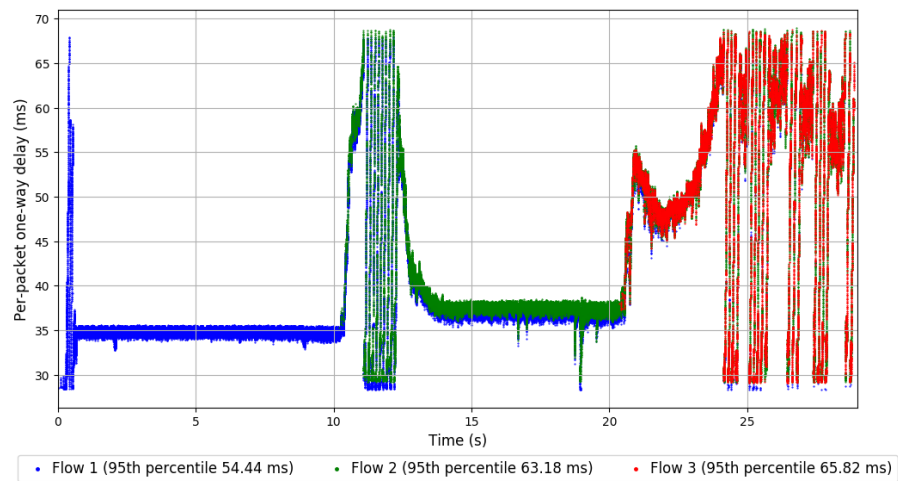
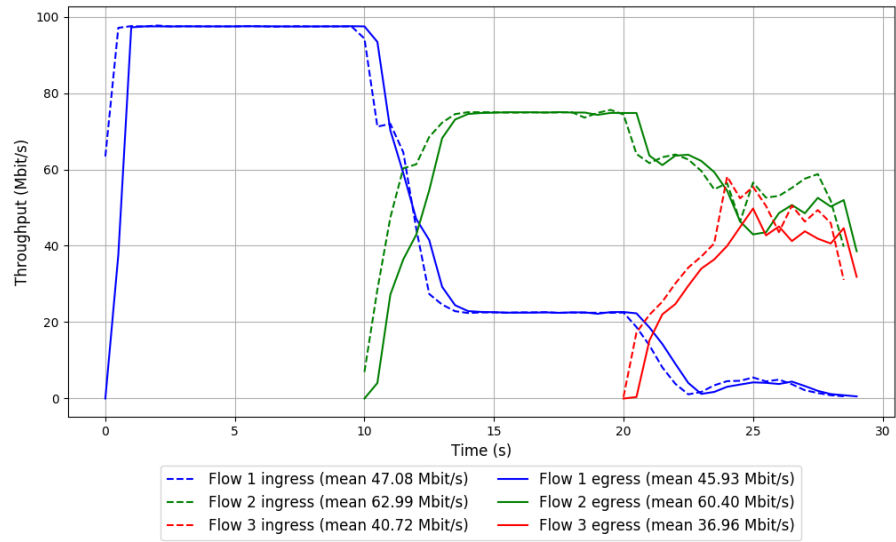


Run 3: Statistics of Indigo-MusesT

Start at: 2020-02-18 02:33:05  
End at: 2020-02-18 02:33:35  
Local clock offset: 6.331 ms  
Remote clock offset: -2.903 ms

# Below is generated by plot.py at 2020-02-18 03:49:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.93 Mbit/s  
95th percentile per-packet one-way delay: 62.415 ms  
Loss rate: 3.81%  
-- Flow 1:  
Average throughput: 45.93 Mbit/s  
95th percentile per-packet one-way delay: 54.442 ms  
Loss rate: 2.32%  
-- Flow 2:  
Average throughput: 60.40 Mbit/s  
95th percentile per-packet one-way delay: 63.181 ms  
Loss rate: 4.02%  
-- Flow 3:  
Average throughput: 36.96 Mbit/s  
95th percentile per-packet one-way delay: 65.819 ms  
Loss rate: 8.94%

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



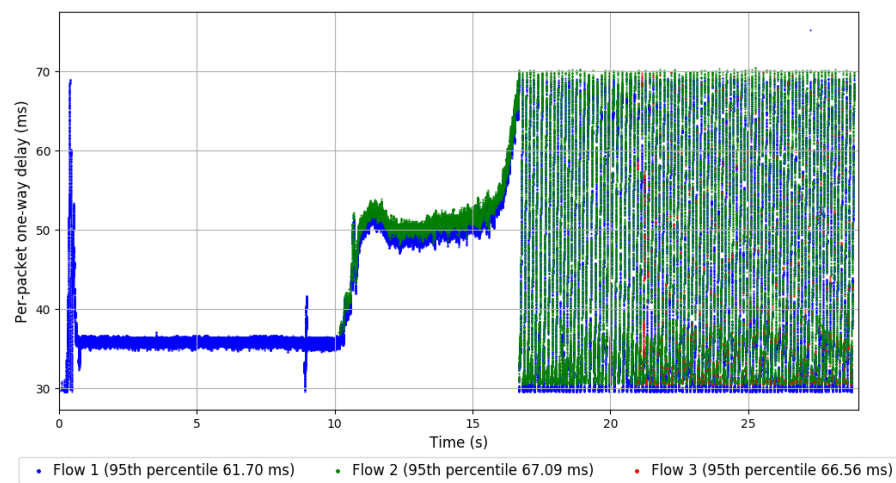
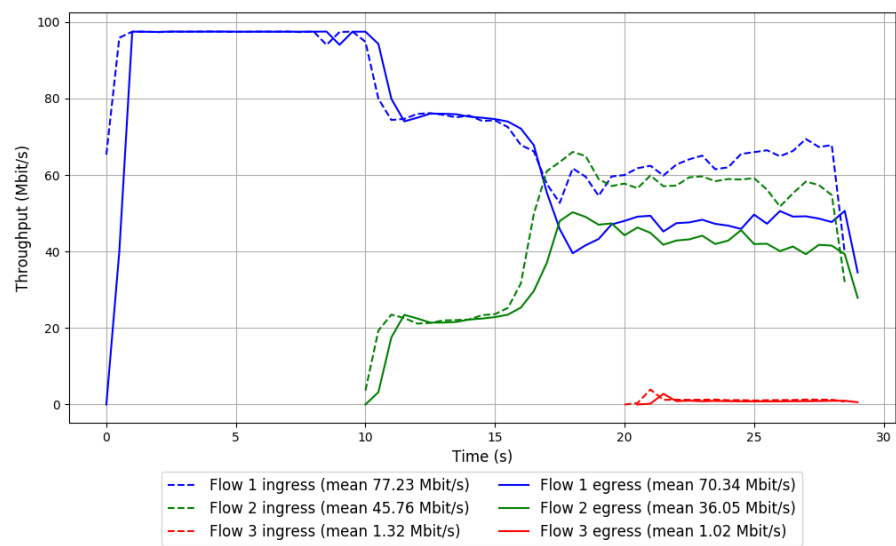


Run 4: Statistics of Indigo-MusesT

Start at: 2020-02-18 03:01:25  
End at: 2020-02-18 03:01:55  
Local clock offset: 5.107 ms  
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2020-02-18 03:49:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.02 Mbit/s  
95th percentile per-packet one-way delay: 64.256 ms  
Loss rate: 12.35%  
-- Flow 1:  
Average throughput: 70.34 Mbit/s  
95th percentile per-packet one-way delay: 61.695 ms  
Loss rate: 8.87%  
-- Flow 2:  
Average throughput: 36.05 Mbit/s  
95th percentile per-packet one-way delay: 67.091 ms  
Loss rate: 21.19%  
-- Flow 3:  
Average throughput: 1.02 Mbit/s  
95th percentile per-packet one-way delay: 66.565 ms  
Loss rate: 27.17%

Run 4: Report of Indigo-MusesT — Data Link

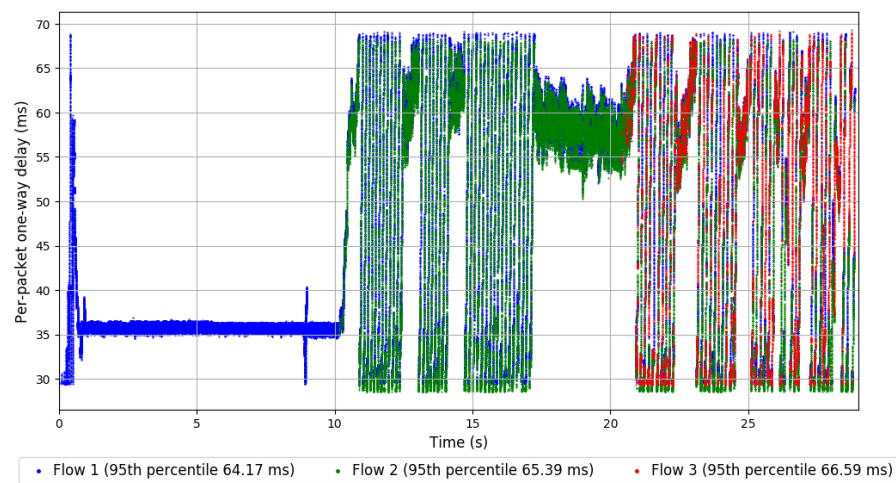
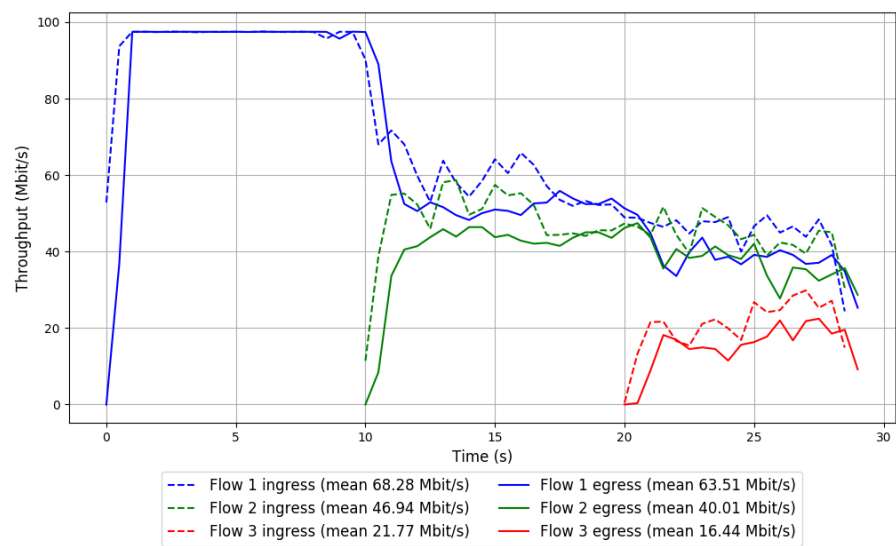


Run 5: Statistics of Indigo-MusesT

Start at: 2020-02-18 03:29:44  
End at: 2020-02-18 03:30:14  
Local clock offset: 5.342 ms  
Remote clock offset: -0.536 ms

# Below is generated by plot.py at 2020-02-18 03:49:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.36 Mbit/s  
95th percentile per-packet one-way delay: 64.826 ms  
Loss rate: 10.21%  
-- Flow 1:  
Average throughput: 63.51 Mbit/s  
95th percentile per-packet one-way delay: 64.173 ms  
Loss rate: 6.88%  
-- Flow 2:  
Average throughput: 40.01 Mbit/s  
95th percentile per-packet one-way delay: 65.388 ms  
Loss rate: 14.65%  
-- Flow 3:  
Average throughput: 16.44 Mbit/s  
95th percentile per-packet one-way delay: 66.592 ms  
Loss rate: 24.45%

Run 5: Report of Indigo-MusesT — Data Link

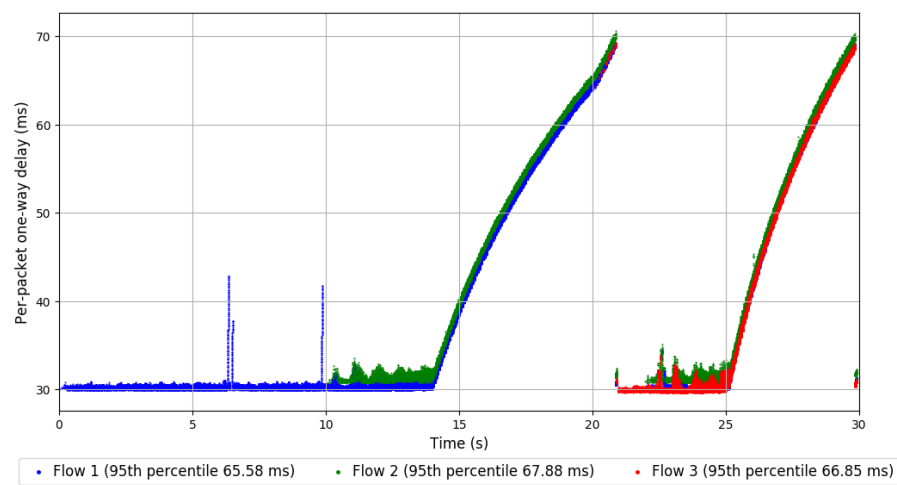
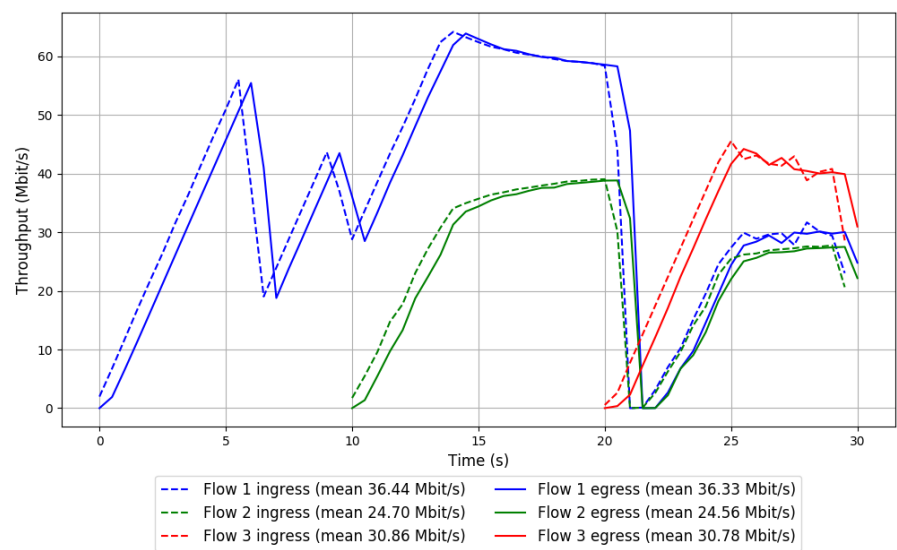


```
Run 1: Statistics of LEDBAT

Start at: 2020-02-18 01:33:56
End at: 2020-02-18 01:34:26
Local clock offset: 5.382 ms
Remote clock offset: -4.536 ms

# Below is generated by plot.py at 2020-02-18 03:49:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.77 Mbit/s
95th percentile per-packet one-way delay: 66.624 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 36.33 Mbit/s
95th percentile per-packet one-way delay: 65.583 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 24.56 Mbit/s
95th percentile per-packet one-way delay: 67.875 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 30.78 Mbit/s
95th percentile per-packet one-way delay: 66.851 ms
Loss rate: 0.62%
```

Run 1: Report of LEDBAT — Data Link

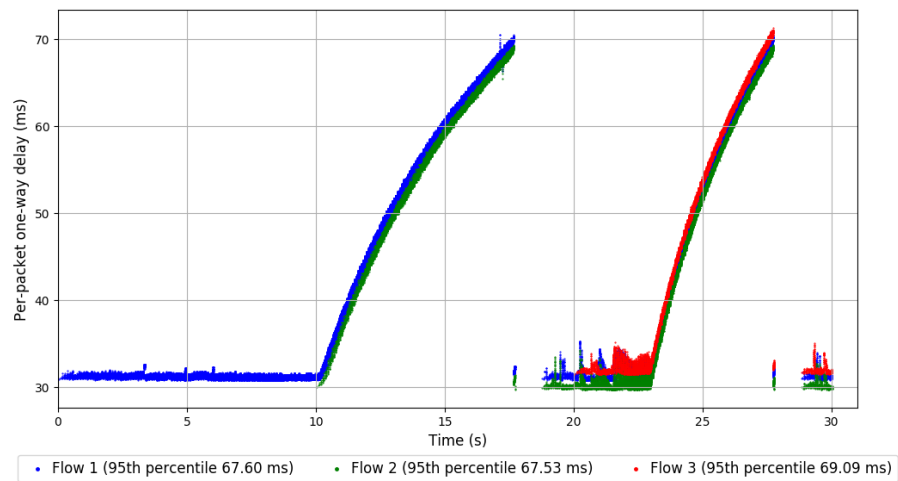
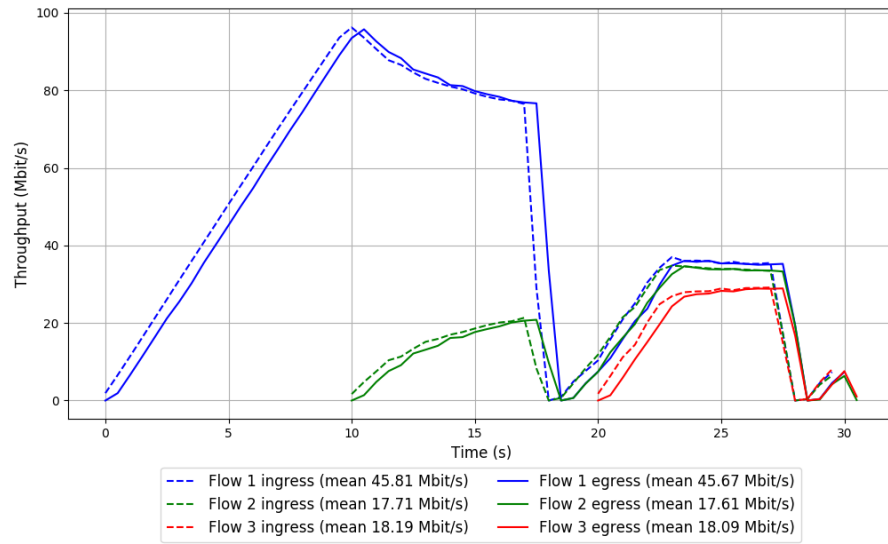


Run 2: Statistics of LEDBAT

Start at: 2020-02-18 02:02:22  
End at: 2020-02-18 02:02:52  
Local clock offset: 4.753 ms  
Remote clock offset: -4.317 ms

# Below is generated by plot.py at 2020-02-18 03:49:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 63.37 Mbit/s  
95th percentile per-packet one-way delay: 67.800 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 45.67 Mbit/s  
95th percentile per-packet one-way delay: 67.602 ms  
Loss rate: 0.32%  
-- Flow 2:  
Average throughput: 17.61 Mbit/s  
95th percentile per-packet one-way delay: 67.530 ms  
Loss rate: 0.59%  
-- Flow 3:  
Average throughput: 18.09 Mbit/s  
95th percentile per-packet one-way delay: 69.087 ms  
Loss rate: 0.59%

## Run 2: Report of LEDBAT — Data Link



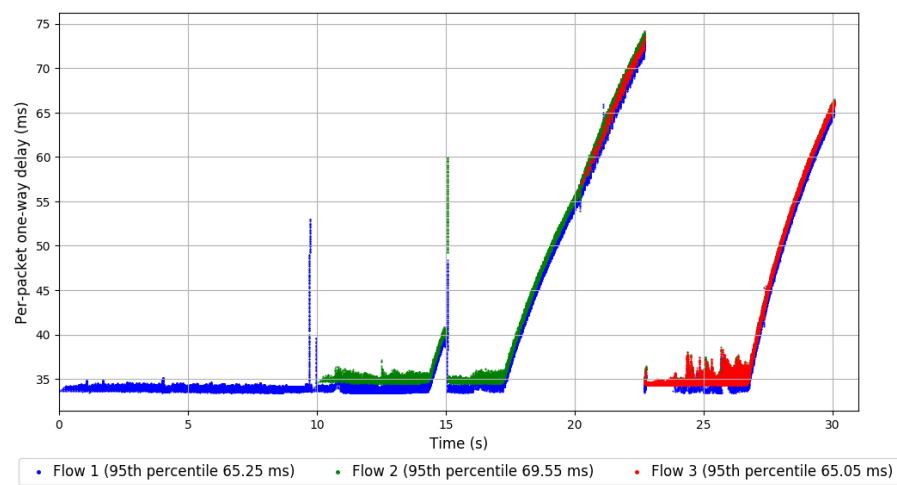
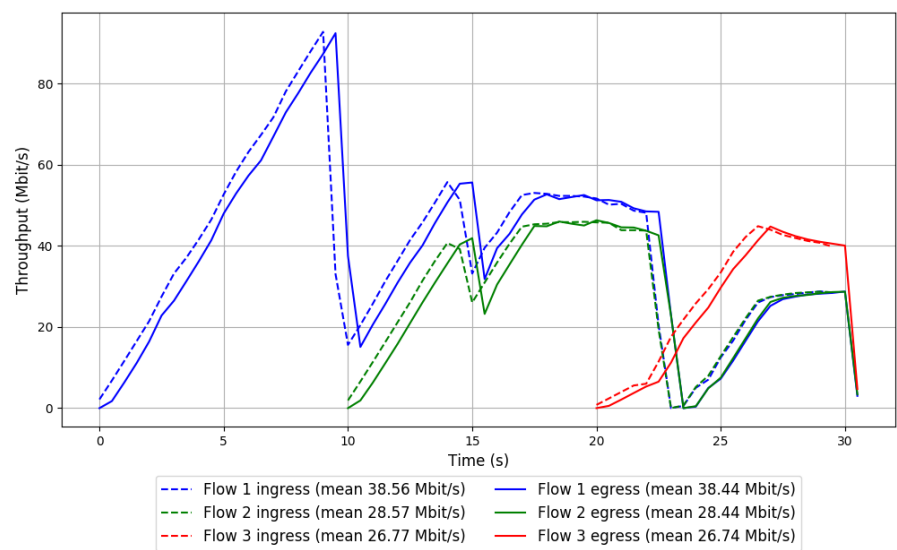


Run 3: Statistics of LEDBAT

Start at: 2020-02-18 02:30:42  
End at: 2020-02-18 02:31:12  
Local clock offset: 1.33 ms  
Remote clock offset: -3.181 ms

# Below is generated by plot.py at 2020-02-18 03:49:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 66.28 Mbit/s  
95th percentile per-packet one-way delay: 66.831 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 38.44 Mbit/s  
95th percentile per-packet one-way delay: 65.246 ms  
Loss rate: 0.24%  
-- Flow 2:  
Average throughput: 28.44 Mbit/s  
95th percentile per-packet one-way delay: 69.550 ms  
Loss rate: 0.28%  
-- Flow 3:  
Average throughput: 26.74 Mbit/s  
95th percentile per-packet one-way delay: 65.048 ms  
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

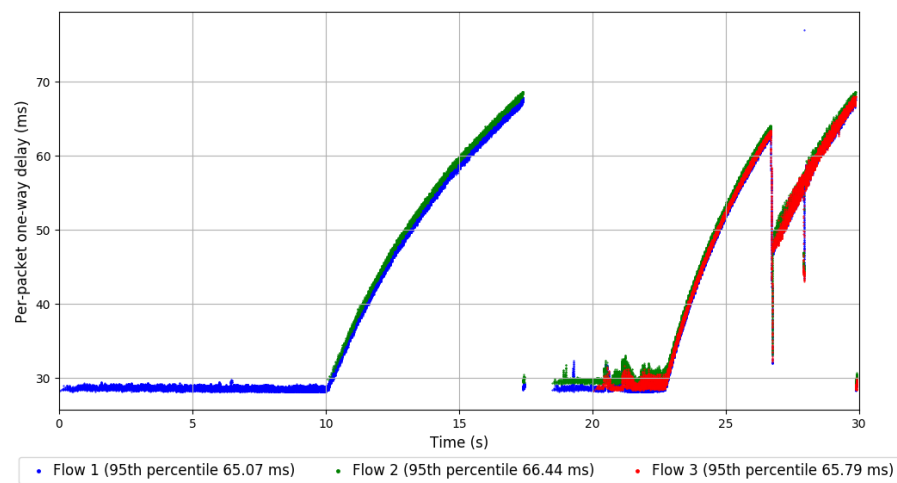
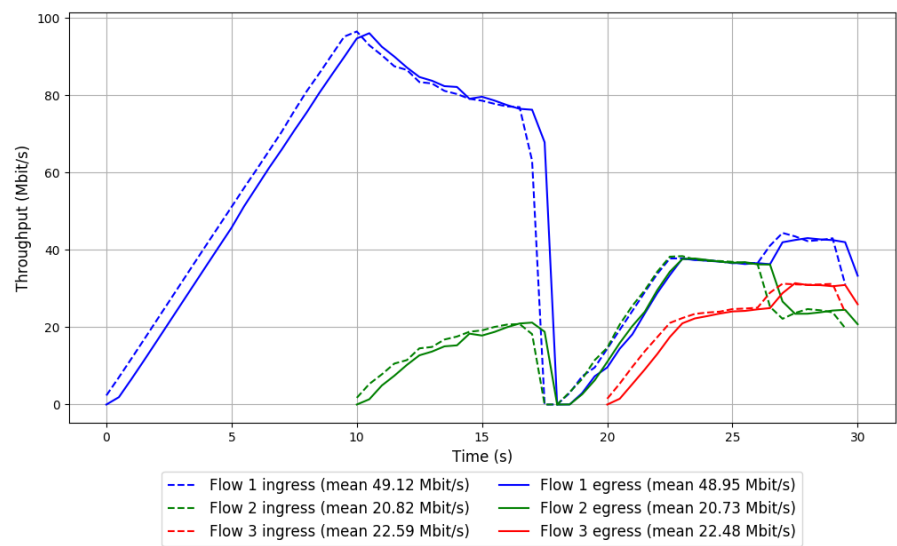


Run 4: Statistics of LEDBAT

Start at: 2020-02-18 02:59:02  
End at: 2020-02-18 02:59:32  
Local clock offset: 5.478 ms  
Remote clock offset: -1.789 ms

# Below is generated by plot.py at 2020-02-18 03:49:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 70.15 Mbit/s  
95th percentile per-packet one-way delay: 65.533 ms  
Loss rate: 0.36%  
-- Flow 1:  
Average throughput: 48.95 Mbit/s  
95th percentile per-packet one-way delay: 65.071 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 20.73 Mbit/s  
95th percentile per-packet one-way delay: 66.440 ms  
Loss rate: 0.40%  
-- Flow 3:  
Average throughput: 22.48 Mbit/s  
95th percentile per-packet one-way delay: 65.790 ms  
Loss rate: 0.47%

Run 4: Report of LEDBAT — Data Link

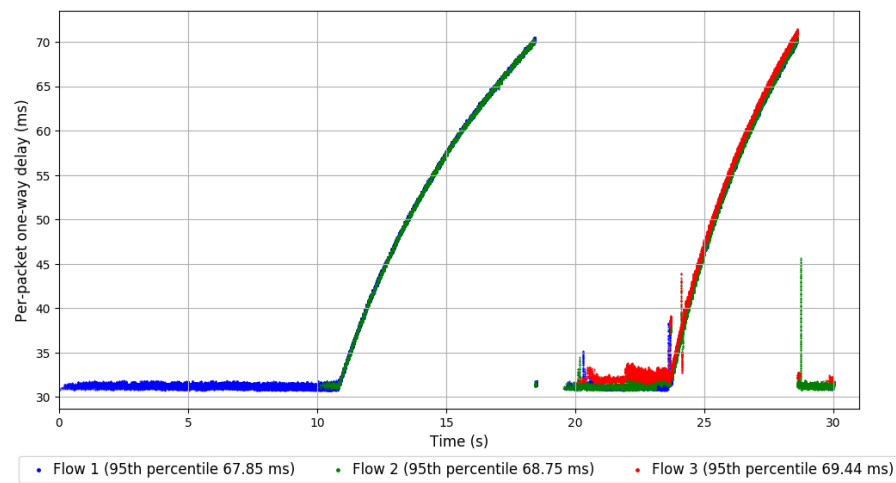
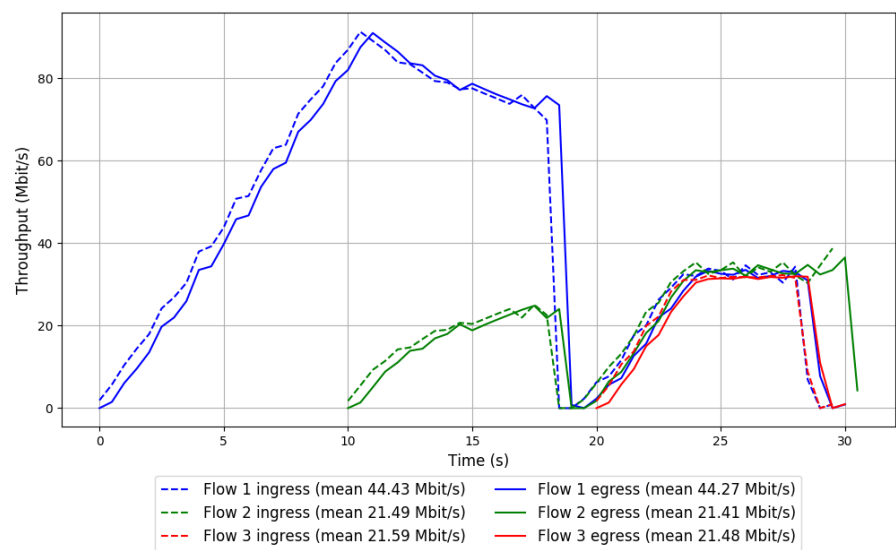


Run 5: Statistics of LEDBAT

Start at: 2020-02-18 03:27:21  
End at: 2020-02-18 03:27:51  
Local clock offset: 1.881 ms  
Remote clock offset: -2.464 ms

# Below is generated by plot.py at 2020-02-18 03:49:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 65.59 Mbit/s  
95th percentile per-packet one-way delay: 68.309 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 44.27 Mbit/s  
95th percentile per-packet one-way delay: 67.848 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 21.41 Mbit/s  
95th percentile per-packet one-way delay: 68.745 ms  
Loss rate: 0.39%  
-- Flow 3:  
Average throughput: 21.48 Mbit/s  
95th percentile per-packet one-way delay: 69.443 ms  
Loss rate: 0.49%

Run 5: Report of LEDBAT — Data Link

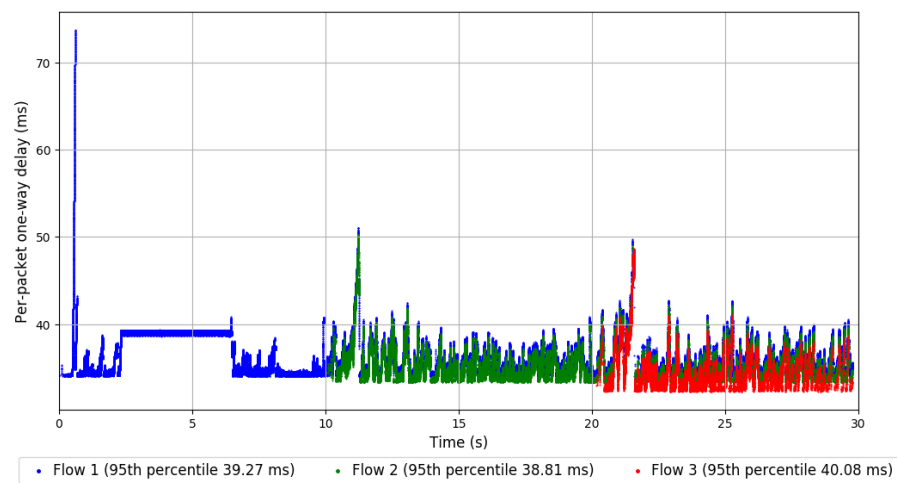
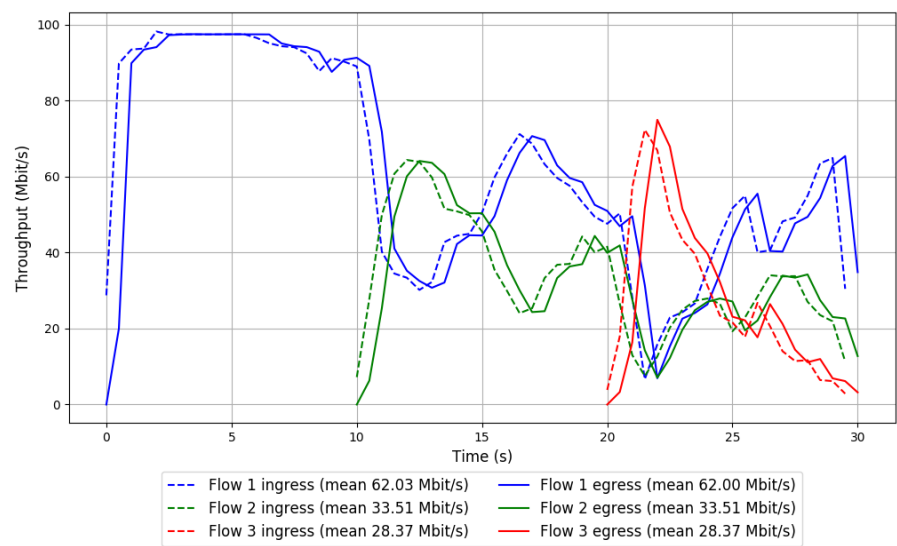


Run 1: Statistics of Muses\\_DecisionTree

Start at: 2020-02-18 01:29:08  
End at: 2020-02-18 01:29:38  
Local clock offset: 0.91 ms  
Remote clock offset: -5.803 ms

# Below is generated by plot.py at 2020-02-18 03:50:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.41 Mbit/s  
95th percentile per-packet one-way delay: 39.267 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 62.00 Mbit/s  
95th percentile per-packet one-way delay: 39.272 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 33.51 Mbit/s  
95th percentile per-packet one-way delay: 38.809 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 28.37 Mbit/s  
95th percentile per-packet one-way delay: 40.077 ms  
Loss rate: 0.00%

Run 1: Report of Muses\_DecisionTree — Data Link



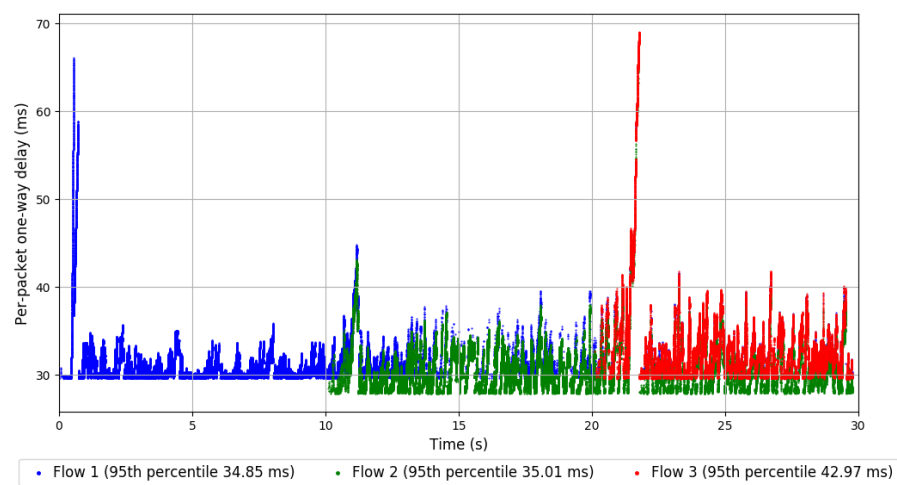
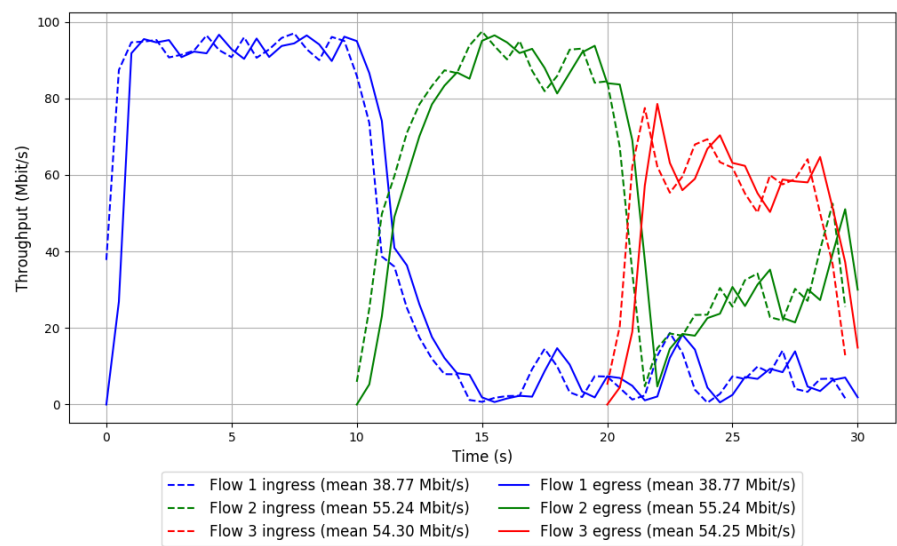


Run 2: Statistics of Muses\\_DecisionTree

Start at: 2020-02-18 01:57:33  
End at: 2020-02-18 01:58:03  
Local clock offset: 4.511 ms  
Remote clock offset: -6.458 ms

# Below is generated by plot.py at 2020-02-18 03:50:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.97 Mbit/s  
95th percentile per-packet one-way delay: 36.377 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 38.77 Mbit/s  
95th percentile per-packet one-way delay: 34.855 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 55.24 Mbit/s  
95th percentile per-packet one-way delay: 35.007 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 54.25 Mbit/s  
95th percentile per-packet one-way delay: 42.969 ms  
Loss rate: 0.12%

Run 2: Report of Muses\_DecisionTree — Data Link

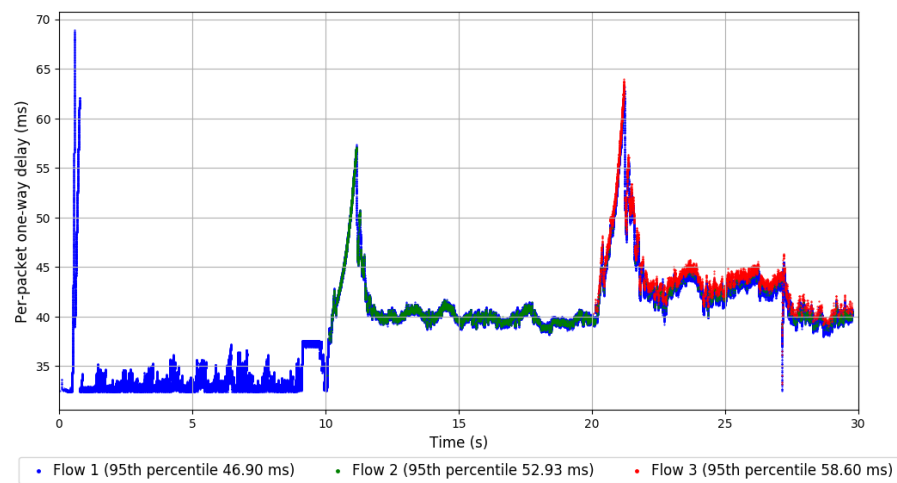
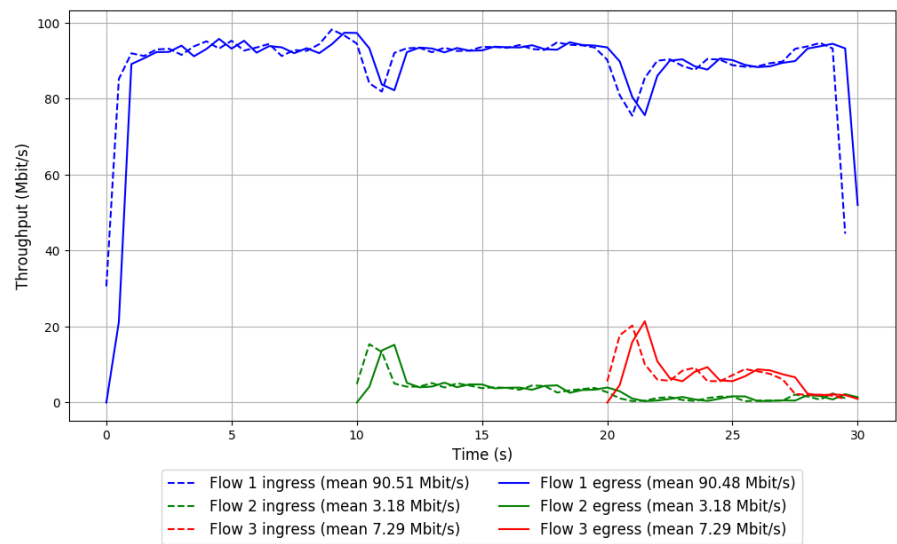


Run 3: Statistics of Muses\\_DecisionTree

Start at: 2020-02-18 02:25:55  
End at: 2020-02-18 02:26:25  
Local clock offset: 5.537 ms  
Remote clock offset: -1.248 ms

# Below is generated by plot.py at 2020-02-18 03:50:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.96 Mbit/s  
95th percentile per-packet one-way delay: 48.276 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 90.48 Mbit/s  
95th percentile per-packet one-way delay: 46.897 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 3.18 Mbit/s  
95th percentile per-packet one-way delay: 52.931 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 7.29 Mbit/s  
95th percentile per-packet one-way delay: 58.598 ms  
Loss rate: 0.00%

Run 3: Report of Muses\_DecisionTree — Data Link

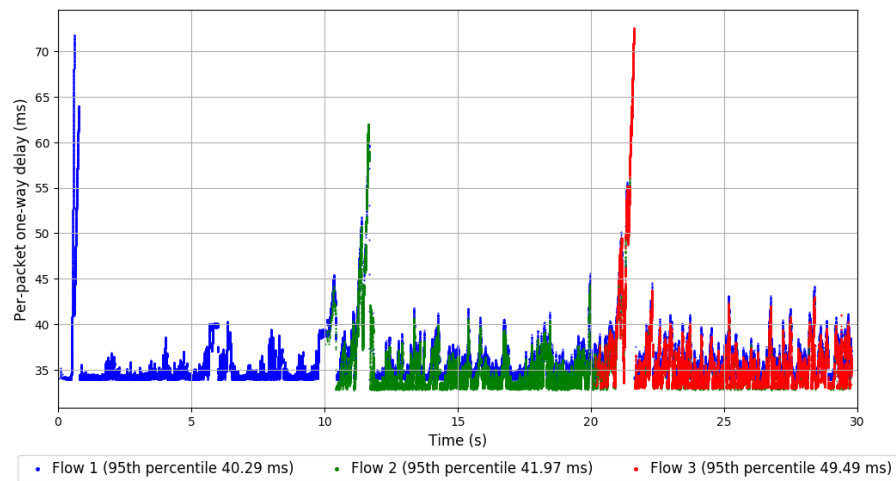
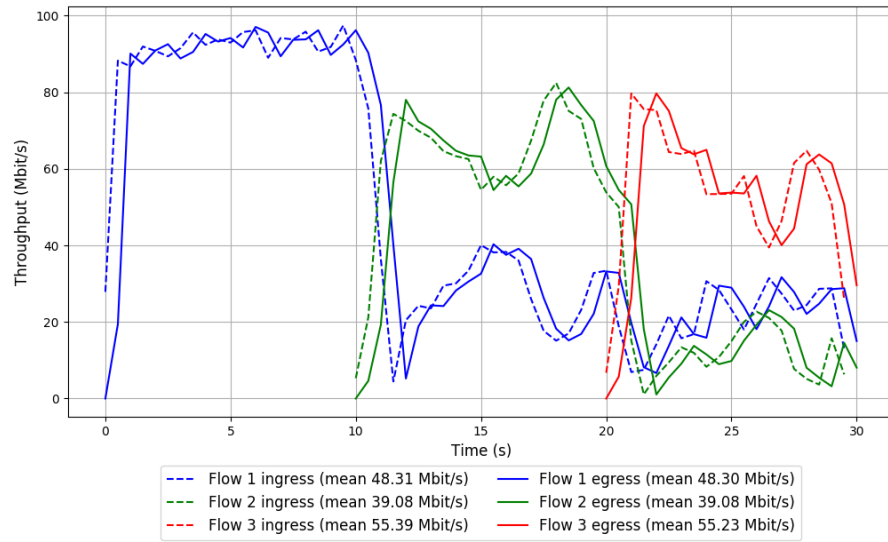


Run 4: Statistics of Muses\\_DecisionTree

Start at: 2020-02-18 02:54:14  
End at: 2020-02-18 02:54:44  
Local clock offset: 1.04 ms  
Remote clock offset: -1.401 ms

# Below is generated by plot.py at 2020-02-18 03:50:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.19 Mbit/s  
95th percentile per-packet one-way delay: 41.613 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 48.30 Mbit/s  
95th percentile per-packet one-way delay: 40.287 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 39.08 Mbit/s  
95th percentile per-packet one-way delay: 41.966 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 55.23 Mbit/s  
95th percentile per-packet one-way delay: 49.489 ms  
Loss rate: 0.29%

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

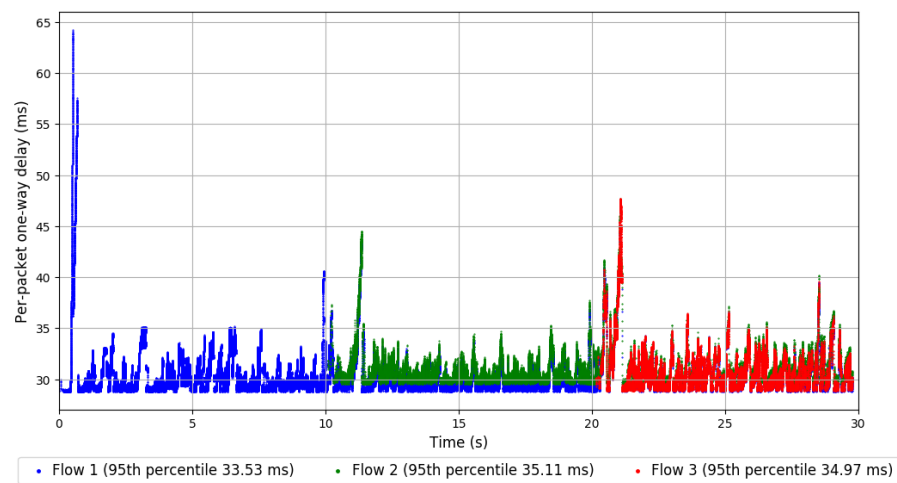
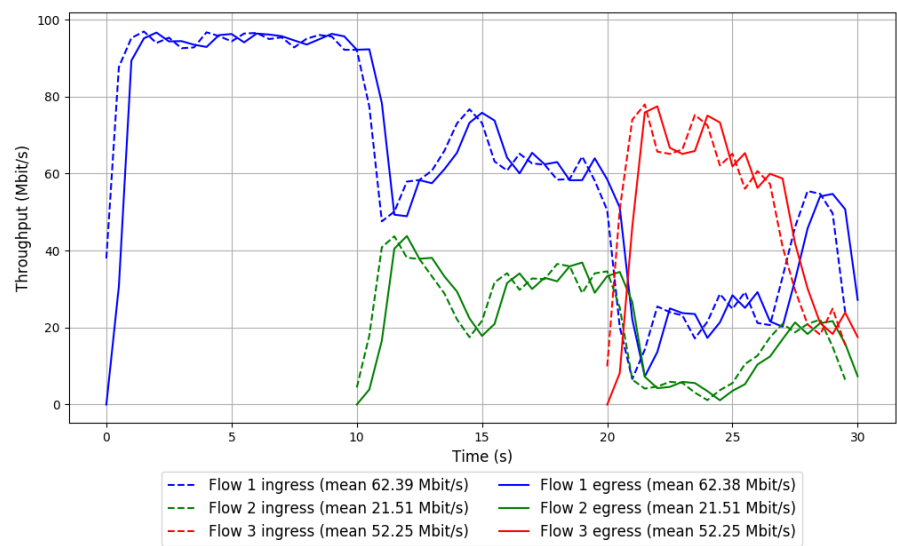


Run 5: Statistics of Muses\\_DecisionTree

Start at: 2020-02-18 03:22:34  
End at: 2020-02-18 03:23:04  
Local clock offset: 6.037 ms  
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2020-02-18 03:50:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.59 Mbit/s  
95th percentile per-packet one-way delay: 34.025 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 62.38 Mbit/s  
95th percentile per-packet one-way delay: 33.527 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 21.51 Mbit/s  
95th percentile per-packet one-way delay: 35.110 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 52.25 Mbit/s  
95th percentile per-packet one-way delay: 34.973 ms  
Loss rate: 0.00%

Run 5: Report of Muses\_DecisionTree — Data Link



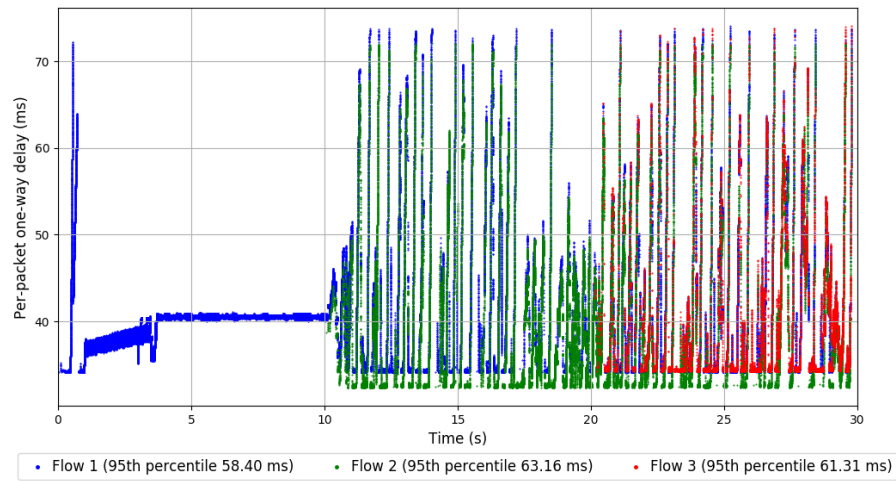
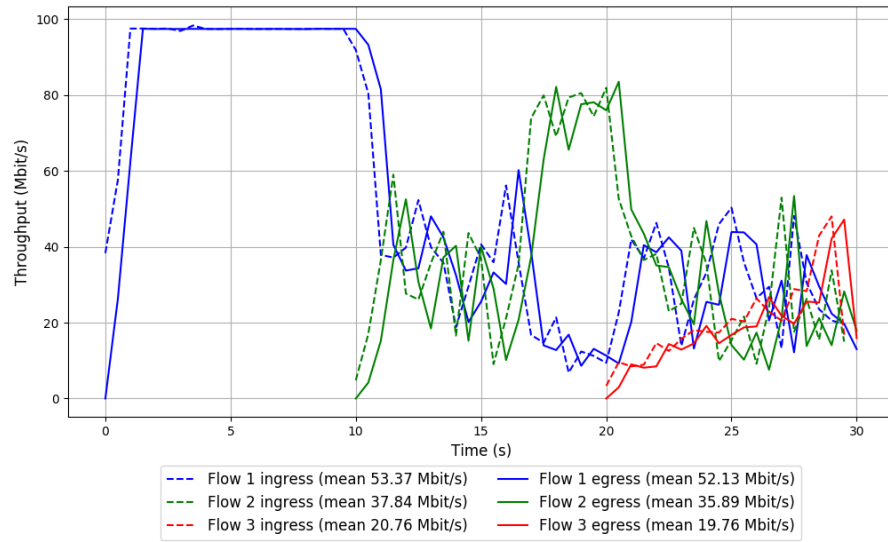


Run 1: Statistics of Muses\\_DecisionTreeH0

Start at: 2020-02-18 01:25:38  
End at: 2020-02-18 01:26:08  
Local clock offset: 4.772 ms  
Remote clock offset: -1.915 ms

# Below is generated by plot.py at 2020-02-18 03:50:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.36 Mbit/s  
95th percentile per-packet one-way delay: 60.536 ms  
Loss rate: 3.33%  
-- Flow 1:  
Average throughput: 52.13 Mbit/s  
95th percentile per-packet one-way delay: 58.403 ms  
Loss rate: 2.30%  
-- Flow 2:  
Average throughput: 35.89 Mbit/s  
95th percentile per-packet one-way delay: 63.156 ms  
Loss rate: 5.13%  
-- Flow 3:  
Average throughput: 19.76 Mbit/s  
95th percentile per-packet one-way delay: 61.310 ms  
Loss rate: 4.81%

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

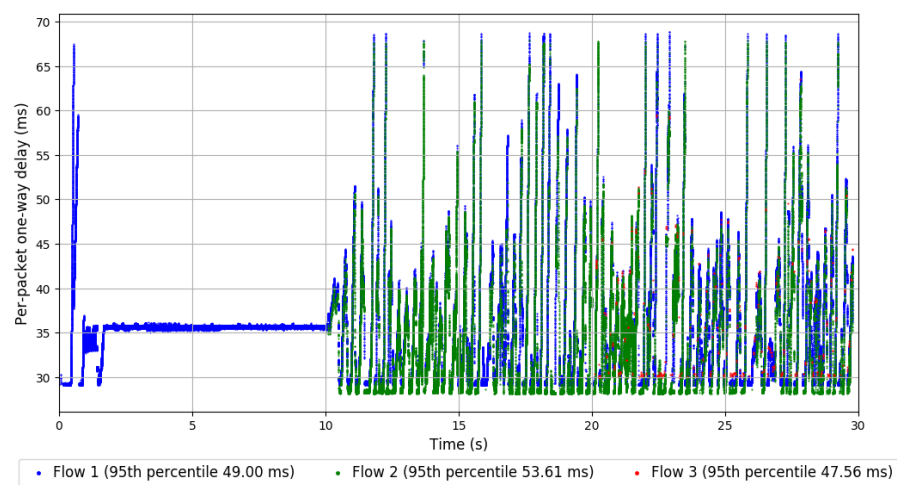
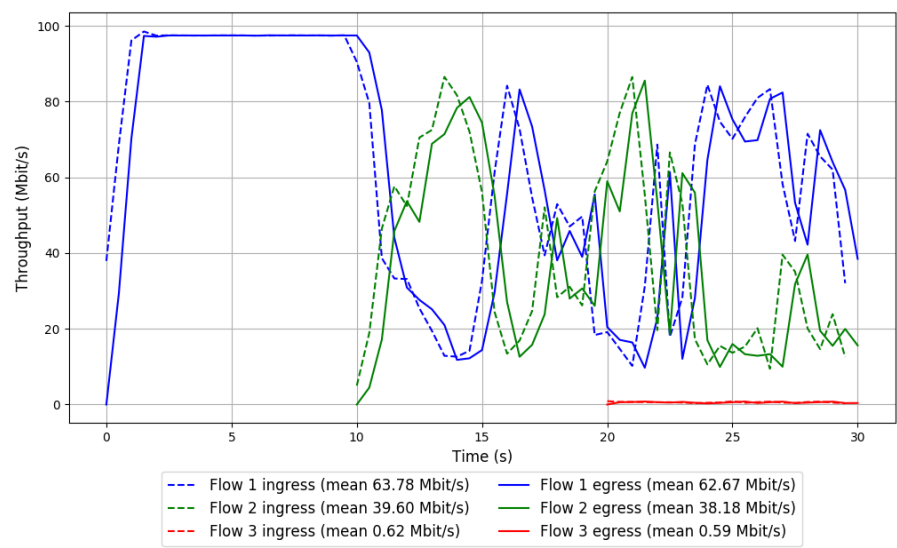


Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2020-02-18 01:54:02  
End at: 2020-02-18 01:54:32  
Local clock offset: 4.39 ms  
Remote clock offset: -6.185 ms

# Below is generated by plot.py at 2020-02-18 03:50:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.20 Mbit/s  
95th percentile per-packet one-way delay: 50.343 ms  
Loss rate: 2.24%  
-- Flow 1:  
Average throughput: 62.67 Mbit/s  
95th percentile per-packet one-way delay: 48.998 ms  
Loss rate: 1.70%  
-- Flow 2:  
Average throughput: 38.18 Mbit/s  
95th percentile per-packet one-way delay: 53.614 ms  
Loss rate: 3.54%  
-- Flow 3:  
Average throughput: 0.59 Mbit/s  
95th percentile per-packet one-way delay: 47.556 ms  
Loss rate: 5.09%

Run 2: Report of Muses\_DecisionTreeH0 — Data Link

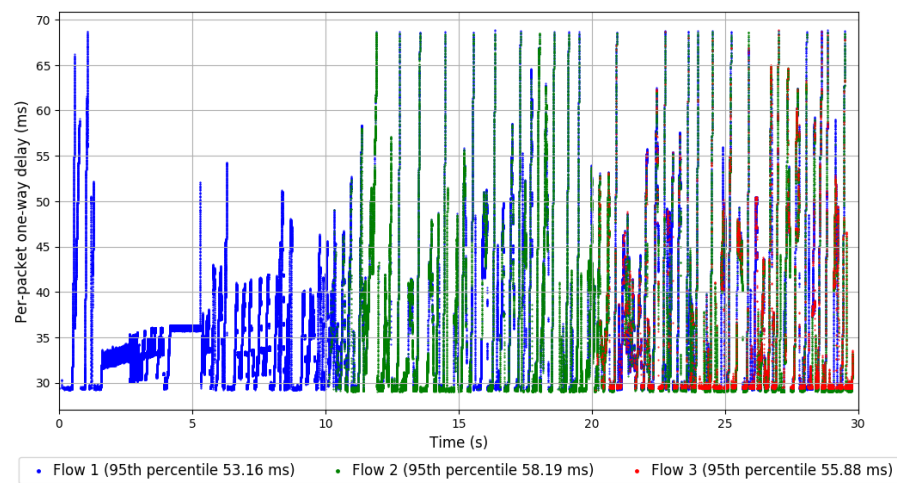
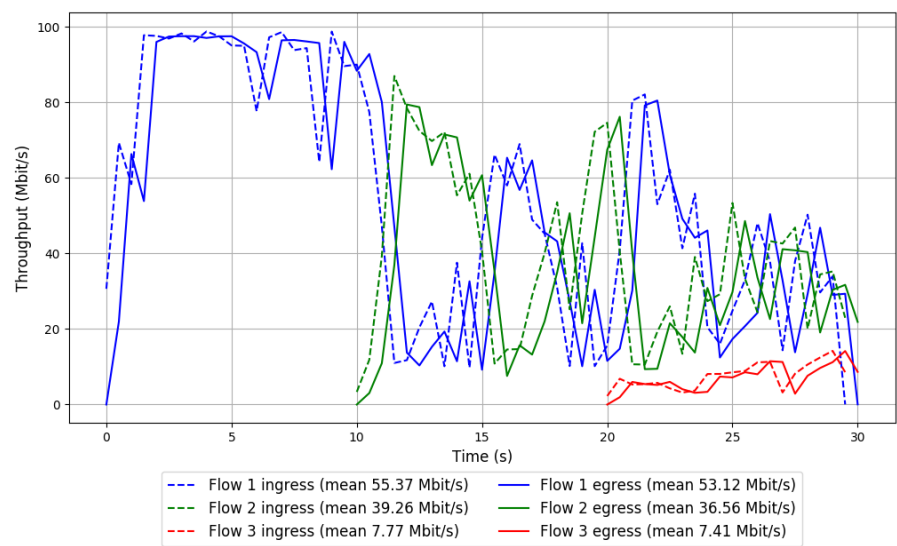


Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2020-02-18 02:22:25  
End at: 2020-02-18 02:22:55  
Local clock offset: 5.439 ms  
Remote clock offset: -4.529 ms

# Below is generated by plot.py at 2020-02-18 03:50:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.67 Mbit/s  
95th percentile per-packet one-way delay: 55.069 ms  
Loss rate: 4.97%  
-- Flow 1:  
Average throughput: 53.12 Mbit/s  
95th percentile per-packet one-way delay: 53.158 ms  
Loss rate: 4.07%  
-- Flow 2:  
Average throughput: 36.56 Mbit/s  
95th percentile per-packet one-way delay: 58.191 ms  
Loss rate: 6.91%  
-- Flow 3:  
Average throughput: 7.41 Mbit/s  
95th percentile per-packet one-way delay: 55.883 ms  
Loss rate: 4.55%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2020-02-18 02:50:44

End at: 2020-02-18 02:51:14

Local clock offset: 6.444 ms

Remote clock offset: 0.858 ms

# Below is generated by plot.py at 2020-02-18 03:51:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 83.05 Mbit/s

95th percentile per-packet one-way delay: 55.232 ms

Loss rate: 4.80%

-- Flow 1:

Average throughput: 62.09 Mbit/s

95th percentile per-packet one-way delay: 51.859 ms

Loss rate: 3.56%

-- Flow 2:

Average throughput: 31.11 Mbit/s

95th percentile per-packet one-way delay: 60.612 ms

Loss rate: 8.31%

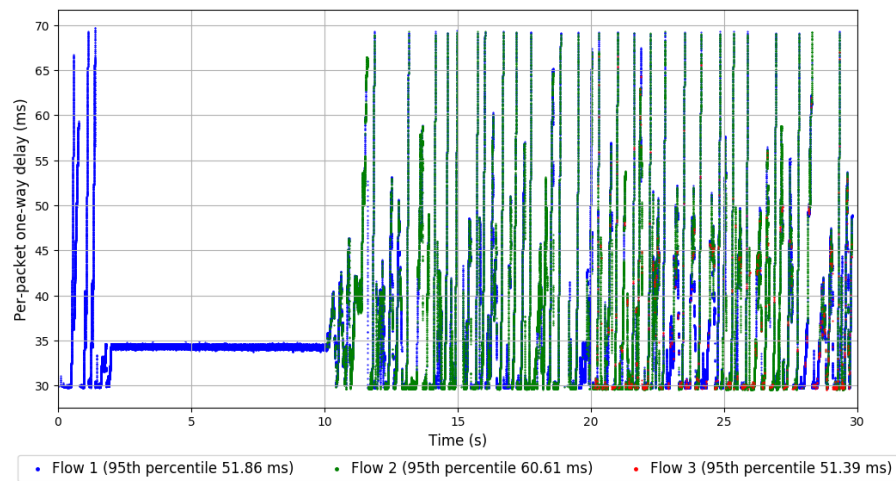
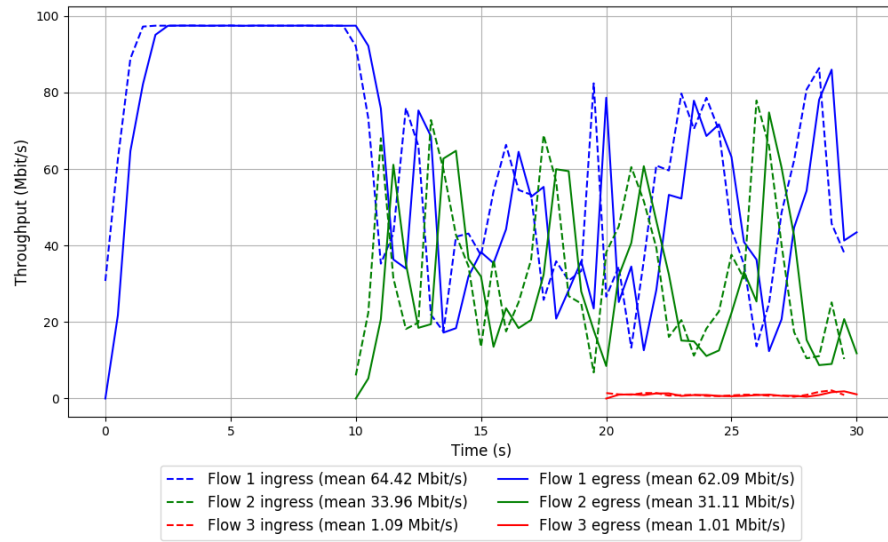
-- Flow 3:

Average throughput: 1.01 Mbit/s

95th percentile per-packet one-way delay: 51.394 ms

Loss rate: 6.78%

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



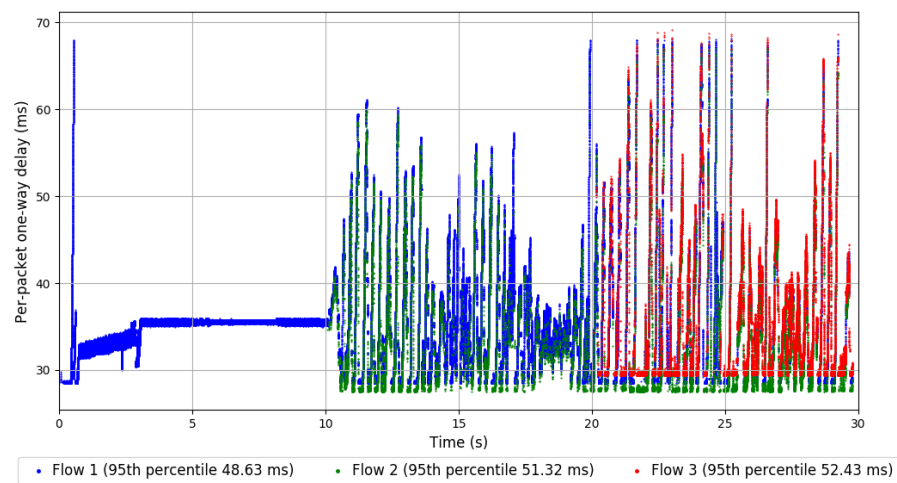
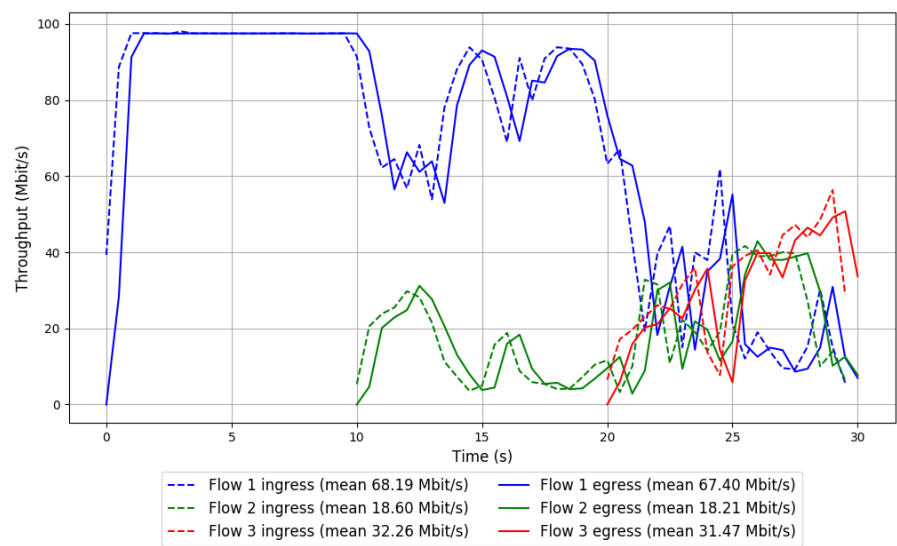


Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2020-02-18 03:19:03  
End at: 2020-02-18 03:19:33  
Local clock offset: 4.877 ms  
Remote clock offset: -2.497 ms

# Below is generated by plot.py at 2020-02-18 03:51:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.72 Mbit/s  
95th percentile per-packet one-way delay: 49.602 ms  
Loss rate: 1.44%  
-- Flow 1:  
Average throughput: 67.40 Mbit/s  
95th percentile per-packet one-way delay: 48.631 ms  
Loss rate: 1.16%  
-- Flow 2:  
Average throughput: 18.21 Mbit/s  
95th percentile per-packet one-way delay: 51.322 ms  
Loss rate: 2.14%  
-- Flow 3:  
Average throughput: 31.47 Mbit/s  
95th percentile per-packet one-way delay: 52.434 ms  
Loss rate: 2.48%

Run 5: Report of Muses\_DecisionTreeH0 — Data Link

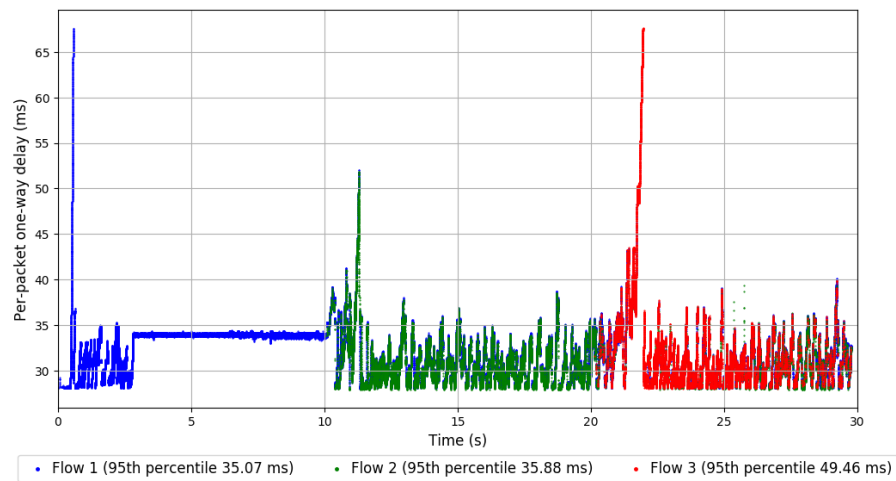
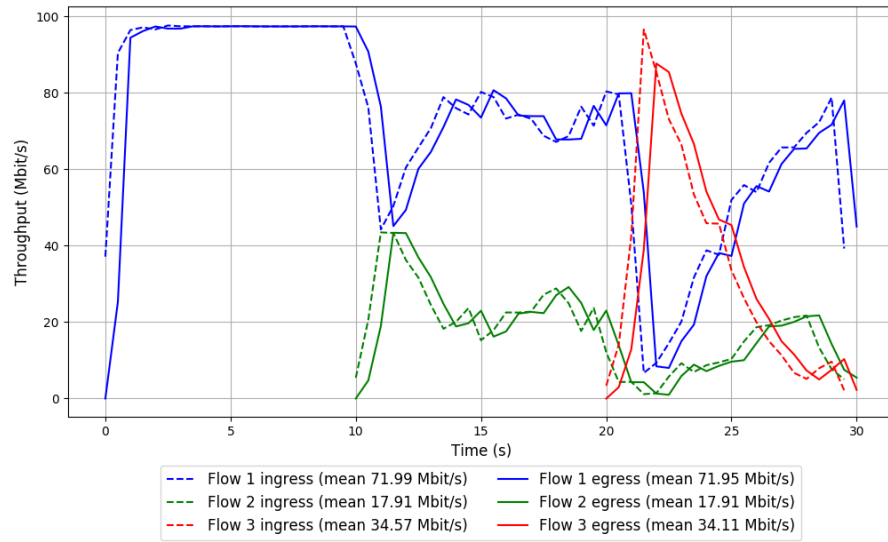


Run 1: Statistics of Muses\\_DecisionTreeR0

Start at: 2020-02-18 01:31:33  
End at: 2020-02-18 01:32:03  
Local clock offset: 5.492 ms  
Remote clock offset: -6.417 ms

# Below is generated by plot.py at 2020-02-18 03:51:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.86 Mbit/s  
95th percentile per-packet one-way delay: 35.811 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 71.95 Mbit/s  
95th percentile per-packet one-way delay: 35.070 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 17.91 Mbit/s  
95th percentile per-packet one-way delay: 35.880 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 34.11 Mbit/s  
95th percentile per-packet one-way delay: 49.461 ms  
Loss rate: 1.30%

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

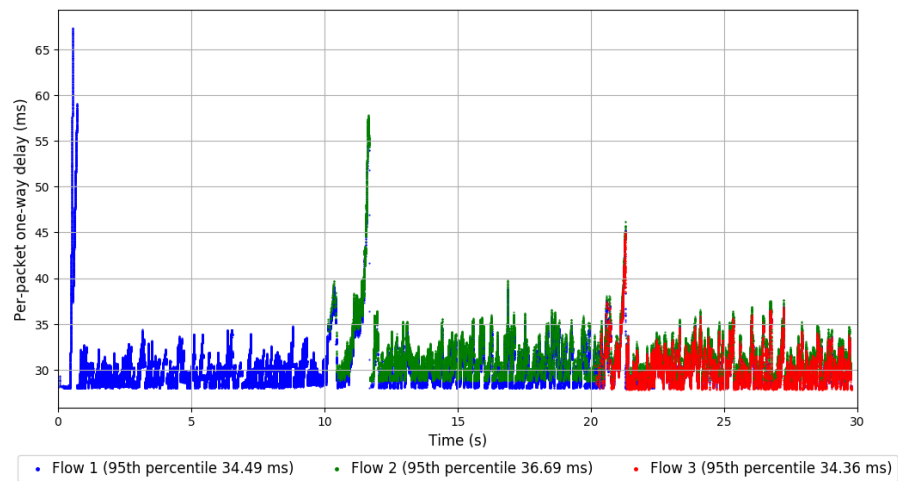
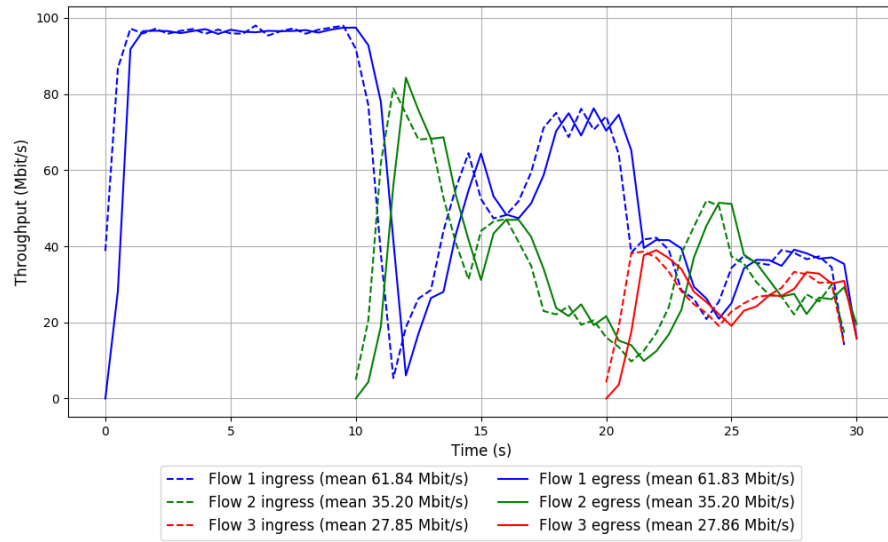


Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2020-02-18 01:59:58  
End at: 2020-02-18 02:00:28  
Local clock offset: 5.882 ms  
Remote clock offset: -5.992 ms

# Below is generated by plot.py at 2020-02-18 03:51:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.15 Mbit/s  
95th percentile per-packet one-way delay: 35.061 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 61.83 Mbit/s  
95th percentile per-packet one-way delay: 34.494 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 35.20 Mbit/s  
95th percentile per-packet one-way delay: 36.688 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 27.86 Mbit/s  
95th percentile per-packet one-way delay: 34.364 ms  
Loss rate: 0.00%

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

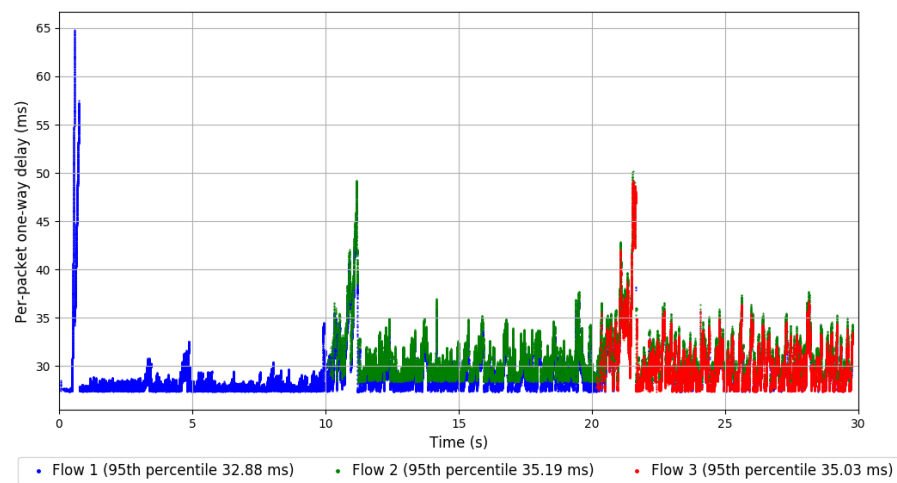
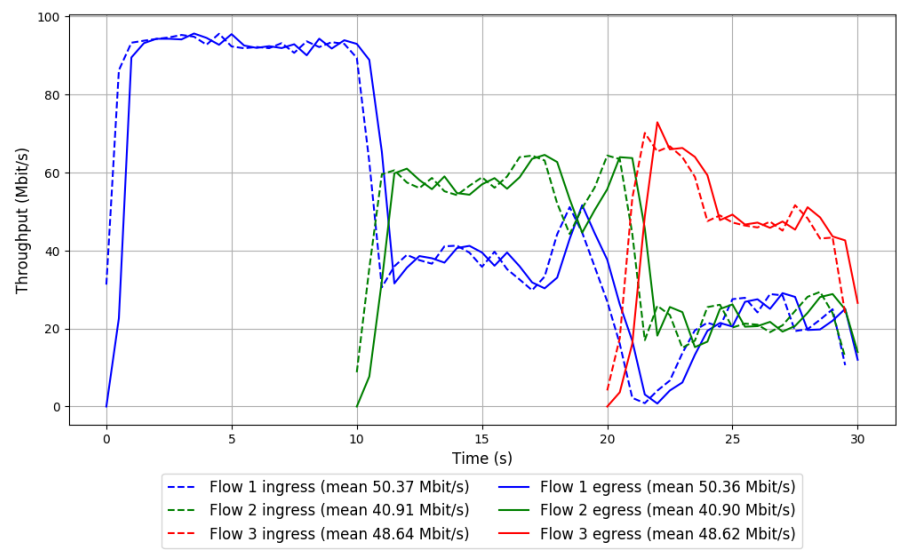


Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2020-02-18 02:28:19  
End at: 2020-02-18 02:28:49  
Local clock offset: 5.726 ms  
Remote clock offset: -5.894 ms

# Below is generated by plot.py at 2020-02-18 03:51:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.25 Mbit/s  
95th percentile per-packet one-way delay: 34.235 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 50.36 Mbit/s  
95th percentile per-packet one-way delay: 32.879 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 40.90 Mbit/s  
95th percentile per-packet one-way delay: 35.193 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 48.62 Mbit/s  
95th percentile per-packet one-way delay: 35.031 ms  
Loss rate: 0.00%

Run 3: Report of Muses\_DecisionTreeR0 — Data Link





Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2020-02-18 02:56:39

End at: 2020-02-18 02:57:09

Local clock offset: 4.724 ms

Remote clock offset: 0.541 ms

# Below is generated by plot.py at 2020-02-18 03:51:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.95 Mbit/s

95th percentile per-packet one-way delay: 39.426 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 47.12 Mbit/s

95th percentile per-packet one-way delay: 38.529 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 62.18 Mbit/s

95th percentile per-packet one-way delay: 40.041 ms

Loss rate: 0.00%

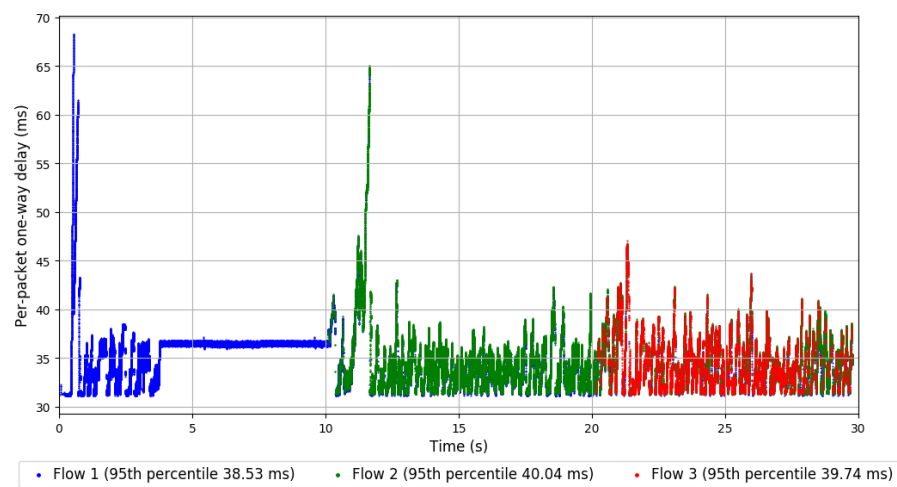
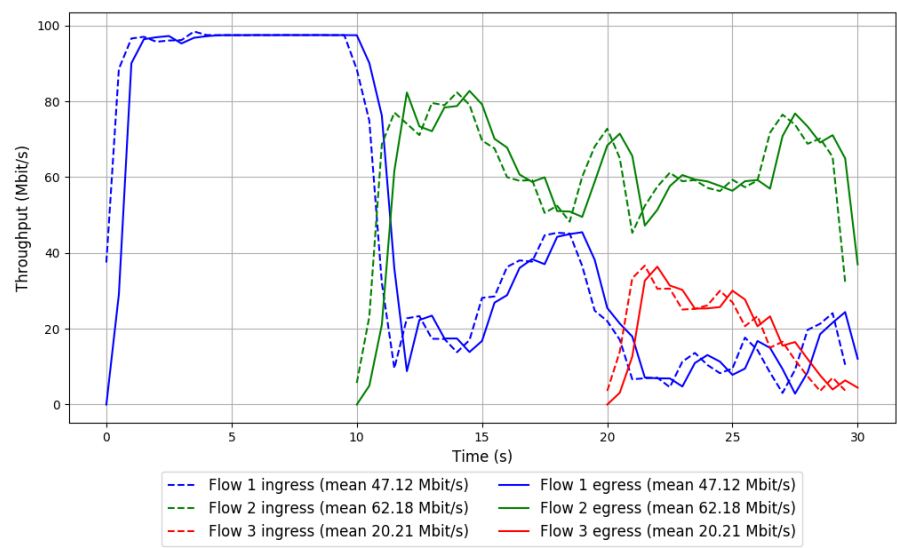
-- Flow 3:

Average throughput: 20.21 Mbit/s

95th percentile per-packet one-way delay: 39.739 ms

Loss rate: 0.00%

Run 4: Report of Muses\_DecisionTreeR0 — Data Link

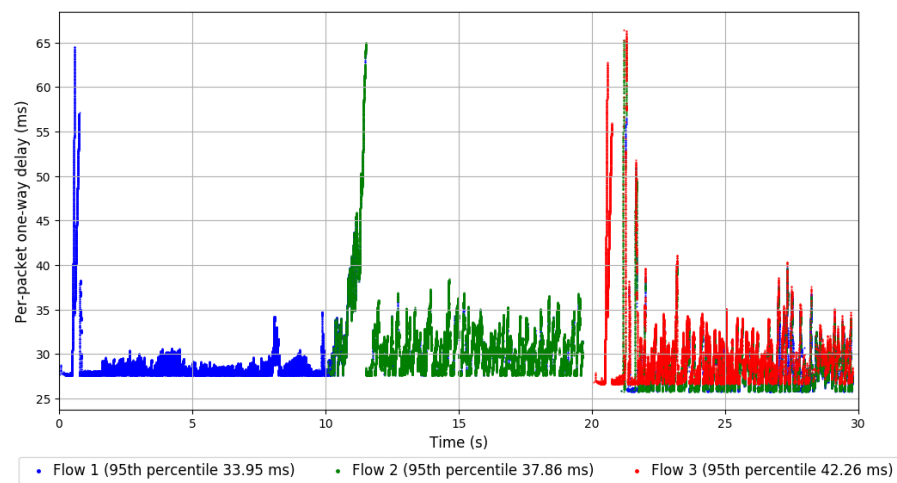
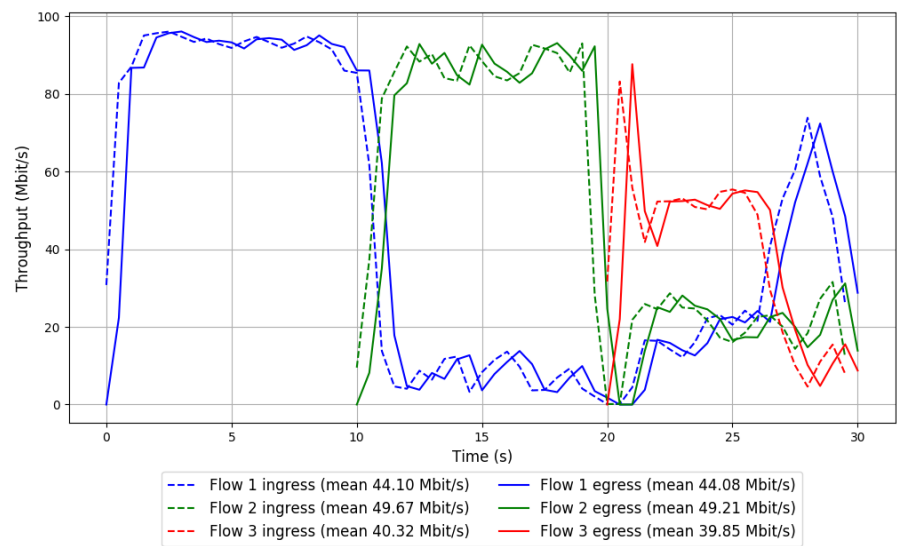


Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2020-02-18 03:24:58  
End at: 2020-02-18 03:25:28  
Local clock offset: 5.938 ms  
Remote clock offset: -2.417 ms

# Below is generated by plot.py at 2020-02-18 03:51:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.68 Mbit/s  
95th percentile per-packet one-way delay: 36.240 ms  
Loss rate: 0.54%  
-- Flow 1:  
Average throughput: 44.08 Mbit/s  
95th percentile per-packet one-way delay: 33.950 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 49.21 Mbit/s  
95th percentile per-packet one-way delay: 37.862 ms  
Loss rate: 0.94%  
-- Flow 3:  
Average throughput: 39.85 Mbit/s  
95th percentile per-packet one-way delay: 42.263 ms  
Loss rate: 1.18%

Run 5: Report of Muses\_DecisionTreeR0 — Data Link

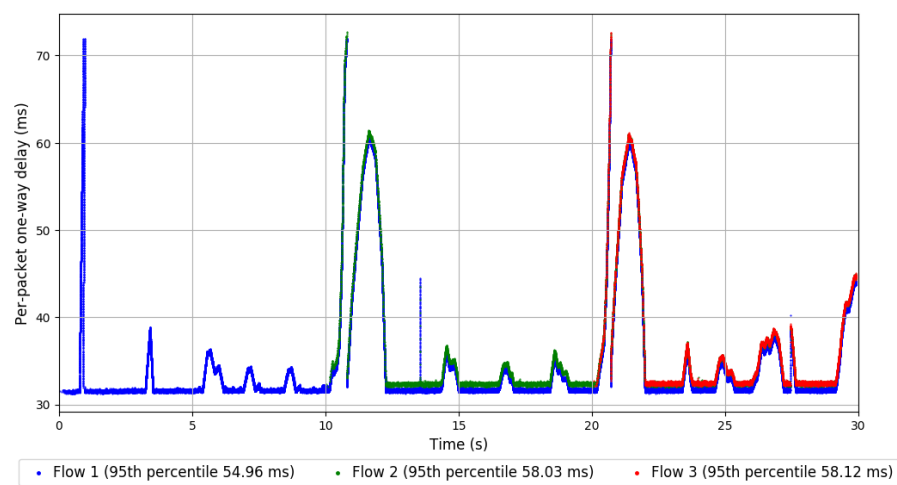
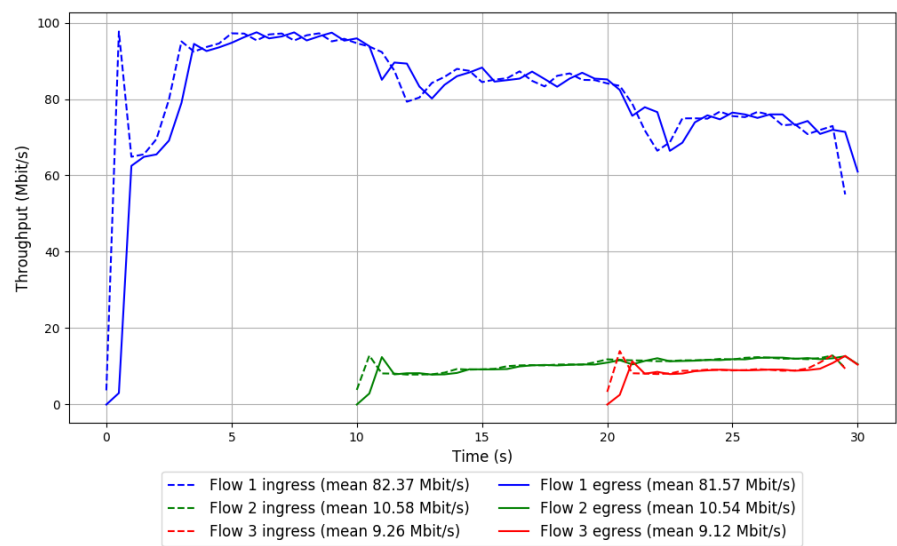


Run 1: Statistics of PCC-Allegro

Start at: 2020-02-18 01:26:49  
End at: 2020-02-18 01:27:19  
Local clock offset: 6.178 ms  
Remote clock offset: -1.581 ms

# Below is generated by plot.py at 2020-02-18 03:52:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.59 Mbit/s  
95th percentile per-packet one-way delay: 55.604 ms  
Loss rate: 0.91%  
-- Flow 1:  
Average throughput: 81.57 Mbit/s  
95th percentile per-packet one-way delay: 54.963 ms  
Loss rate: 0.94%  
-- Flow 2:  
Average throughput: 10.54 Mbit/s  
95th percentile per-packet one-way delay: 58.035 ms  
Loss rate: 0.38%  
-- Flow 3:  
Average throughput: 9.12 Mbit/s  
95th percentile per-packet one-way delay: 58.115 ms  
Loss rate: 1.43%

Run 1: Report of PCC-Allegro — Data Link

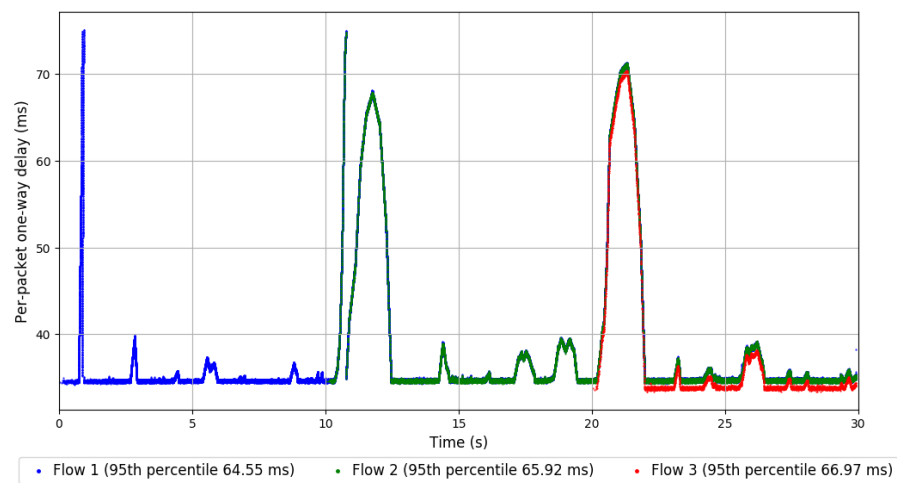
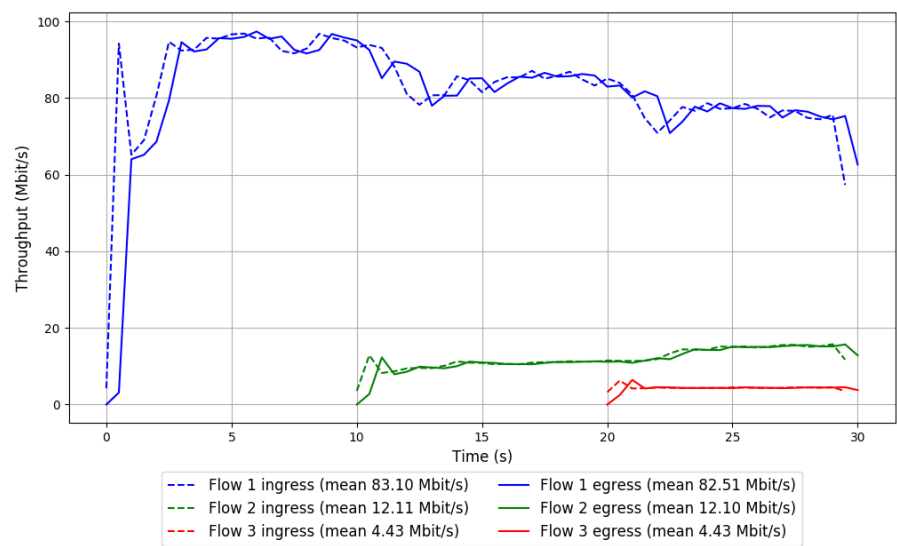


Run 2: Statistics of PCC-Allegro

Start at: 2020-02-18 01:55:14  
End at: 2020-02-18 01:55:44  
Local clock offset: 0.449 ms  
Remote clock offset: -4.832 ms

# Below is generated by plot.py at 2020-02-18 03:52:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.01 Mbit/s  
95th percentile per-packet one-way delay: 64.750 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 82.51 Mbit/s  
95th percentile per-packet one-way delay: 64.549 ms  
Loss rate: 0.70%  
-- Flow 2:  
Average throughput: 12.10 Mbit/s  
95th percentile per-packet one-way delay: 65.917 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 4.43 Mbit/s  
95th percentile per-packet one-way delay: 66.969 ms  
Loss rate: 0.00%

Run 2: Report of PCC-Allegro — Data Link



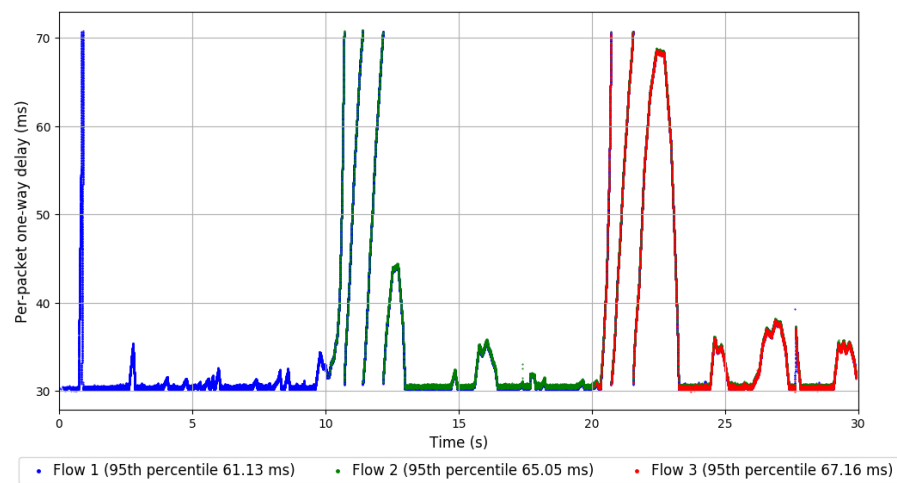
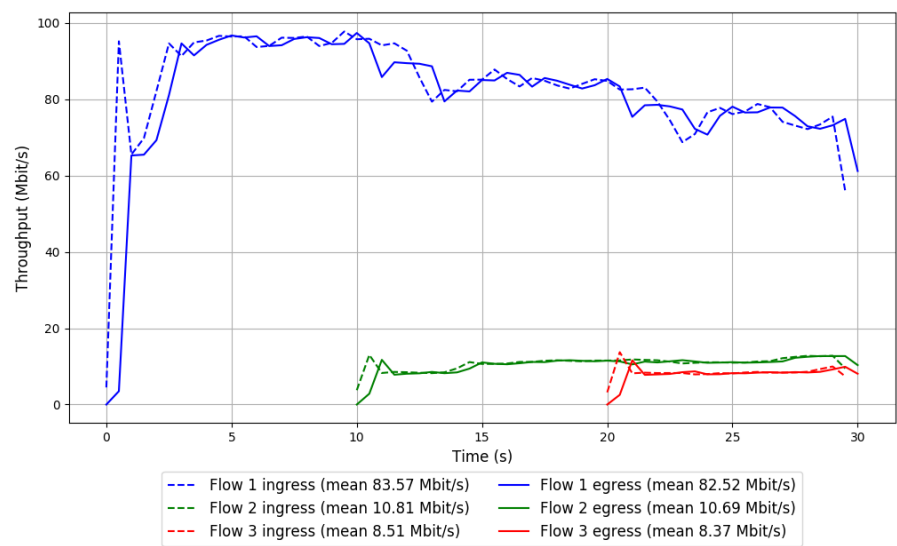


Run 3: Statistics of PCC-Allegro

Start at: 2020-02-18 02:23:36  
End at: 2020-02-18 02:24:06  
Local clock offset: 5.623 ms  
Remote clock offset: -3.249 ms

# Below is generated by plot.py at 2020-02-18 03:52:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.39 Mbit/s  
95th percentile per-packet one-way delay: 62.070 ms  
Loss rate: 1.25%  
-- Flow 1:  
Average throughput: 82.52 Mbit/s  
95th percentile per-packet one-way delay: 61.132 ms  
Loss rate: 1.26%  
-- Flow 2:  
Average throughput: 10.69 Mbit/s  
95th percentile per-packet one-way delay: 65.046 ms  
Loss rate: 1.07%  
-- Flow 3:  
Average throughput: 8.37 Mbit/s  
95th percentile per-packet one-way delay: 67.155 ms  
Loss rate: 1.63%

Run 3: Report of PCC-Allegro — Data Link

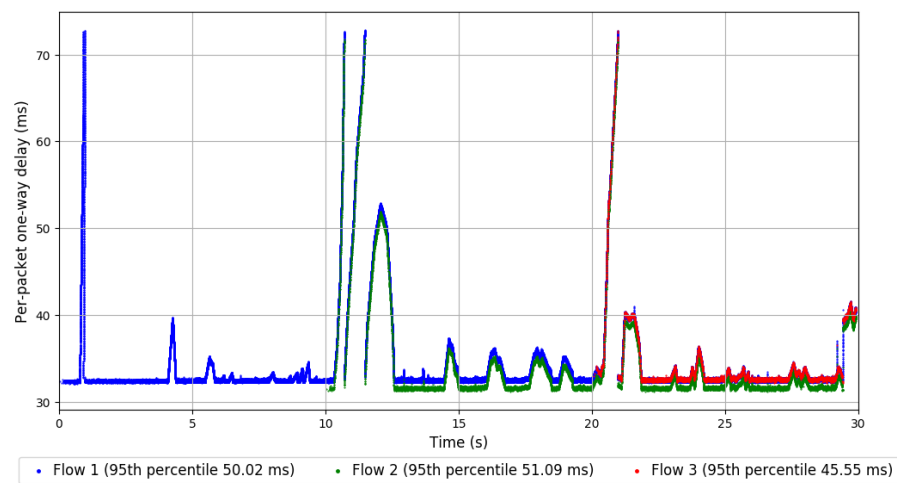
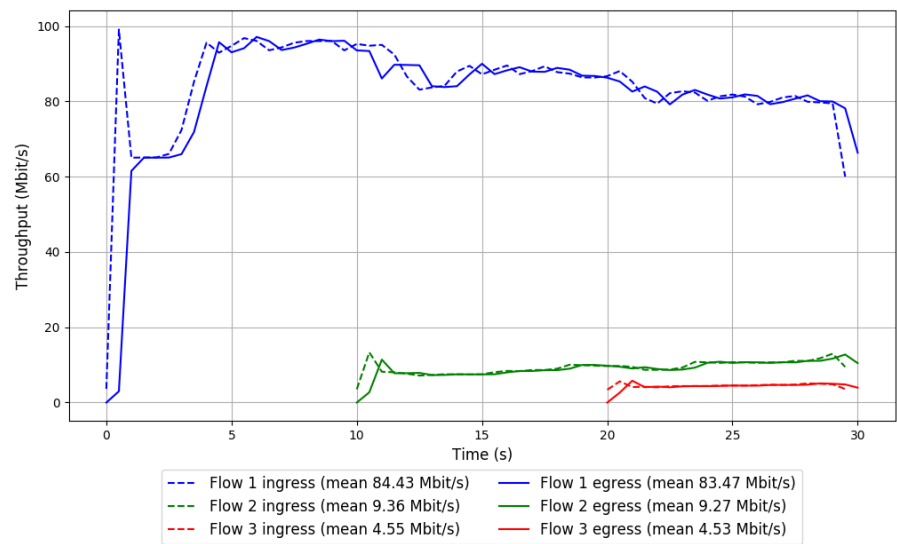


Run 4: Statistics of PCC-Allegro

Start at: 2020-02-18 02:51:55  
End at: 2020-02-18 02:52:25  
Local clock offset: 1.508 ms  
Remote clock offset: -1.602 ms

# Below is generated by plot.py at 2020-02-18 03:52:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.13 Mbit/s  
95th percentile per-packet one-way delay: 50.086 ms  
Loss rate: 1.09%  
-- Flow 1:  
Average throughput: 83.47 Mbit/s  
95th percentile per-packet one-way delay: 50.018 ms  
Loss rate: 1.12%  
-- Flow 2:  
Average throughput: 9.27 Mbit/s  
95th percentile per-packet one-way delay: 51.095 ms  
Loss rate: 0.92%  
-- Flow 3:  
Average throughput: 4.53 Mbit/s  
95th percentile per-packet one-way delay: 45.554 ms  
Loss rate: 0.34%

Run 4: Report of PCC-Allegro — Data Link

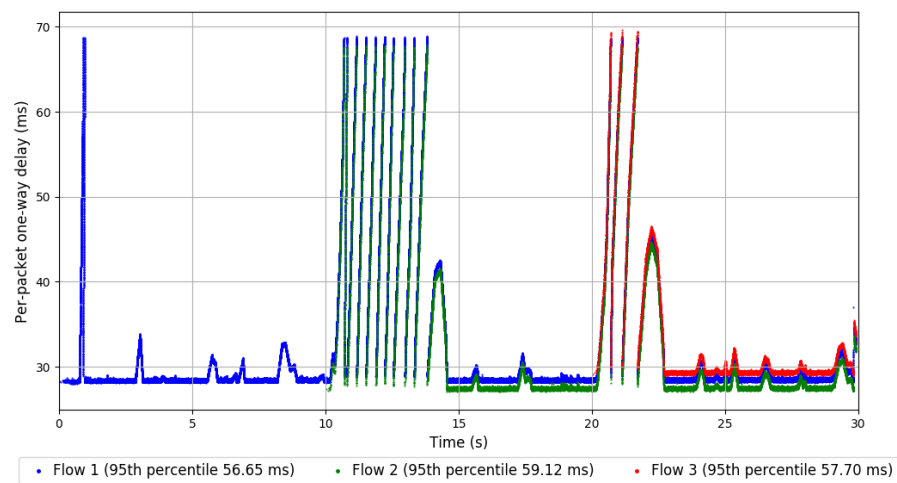
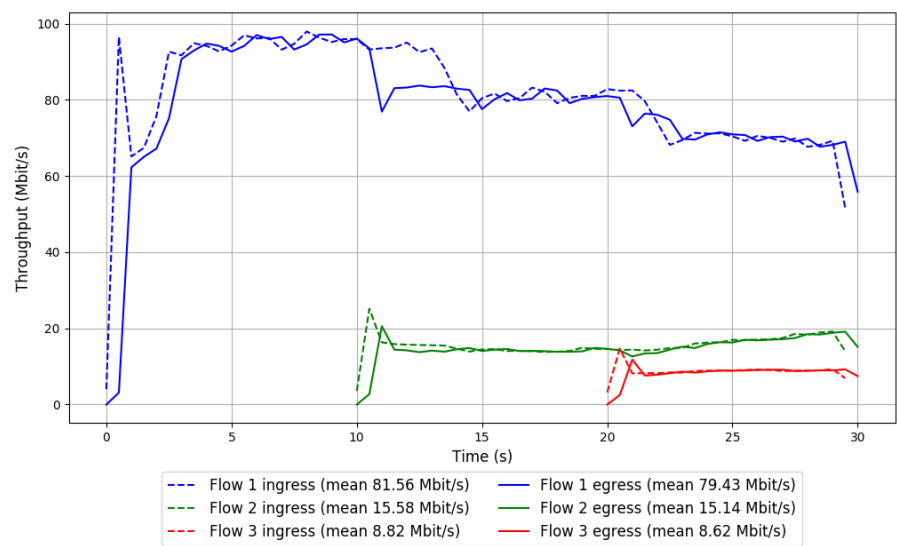


Run 5: Statistics of PCC-Allegro

Start at: 2020-02-18 03:20:15  
End at: 2020-02-18 03:20:45  
Local clock offset: 5.431 ms  
Remote clock offset: -2.354 ms

# Below is generated by plot.py at 2020-02-18 03:52:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.35 Mbit/s  
95th percentile per-packet one-way delay: 57.031 ms  
Loss rate: 2.60%  
-- Flow 1:  
Average throughput: 79.43 Mbit/s  
95th percentile per-packet one-way delay: 56.645 ms  
Loss rate: 2.59%  
-- Flow 2:  
Average throughput: 15.14 Mbit/s  
95th percentile per-packet one-way delay: 59.120 ms  
Loss rate: 2.82%  
-- Flow 3:  
Average throughput: 8.62 Mbit/s  
95th percentile per-packet one-way delay: 57.698 ms  
Loss rate: 2.24%

Run 5: Report of PCC-Allegro — Data Link

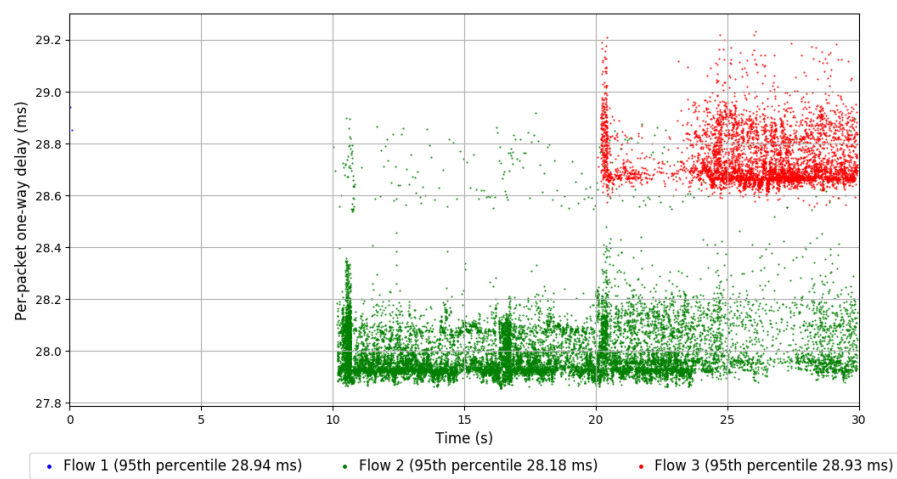
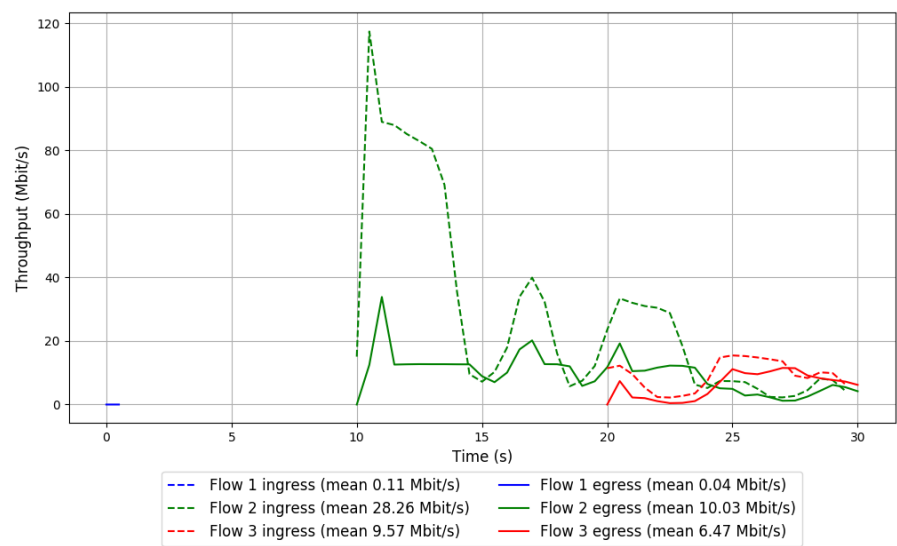


```
Run 1: Statistics of PCC-Expr

Start at: 2020-02-18 01:45:52
End at: 2020-02-18 01:46:22
Local clock offset: 4.942 ms
Remote clock offset: -5.997 ms

# Below is generated by plot.py at 2020-02-18 03:52:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.81 Mbit/s
95th percentile per-packet one-way delay: 28.826 ms
Loss rate: 59.87%
-- Flow 1:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 28.941 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 10.03 Mbit/s
95th percentile per-packet one-way delay: 28.179 ms
Loss rate: 64.50%
-- Flow 3:
Average throughput: 6.47 Mbit/s
95th percentile per-packet one-way delay: 28.928 ms
Loss rate: 32.37%
```

Run 1: Report of PCC-Expr — Data Link





Run 2: Statistics of PCC-Expr

Start at: 2020-02-18 02:14:14

End at: 2020-02-18 02:14:44

Local clock offset: 6.394 ms

Remote clock offset: -5.49 ms

# Below is generated by plot.py at 2020-02-18 03:52:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.82 Mbit/s

95th percentile per-packet one-way delay: 27.561 ms

Loss rate: 53.92%

-- Flow 1:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 27.552 ms

Loss rate: 85.71%

-- Flow 2:

Average throughput: 11.47 Mbit/s

95th percentile per-packet one-way delay: 26.914 ms

Loss rate: 54.92%

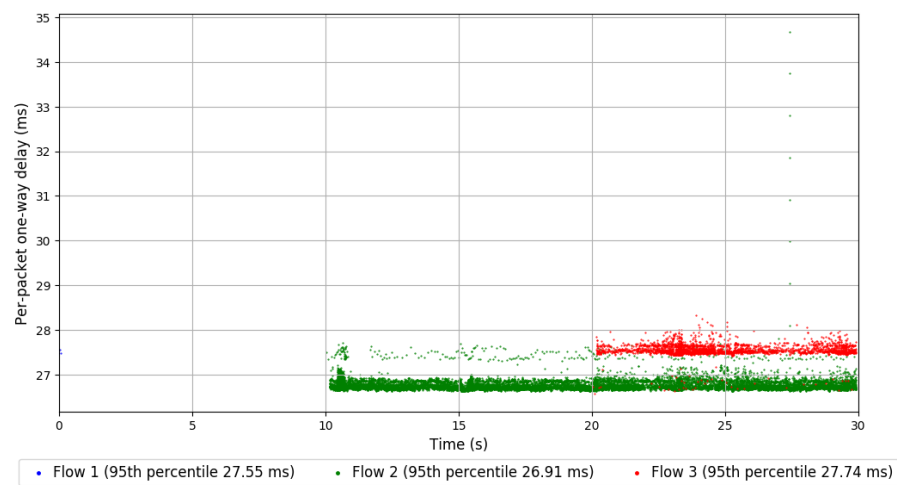
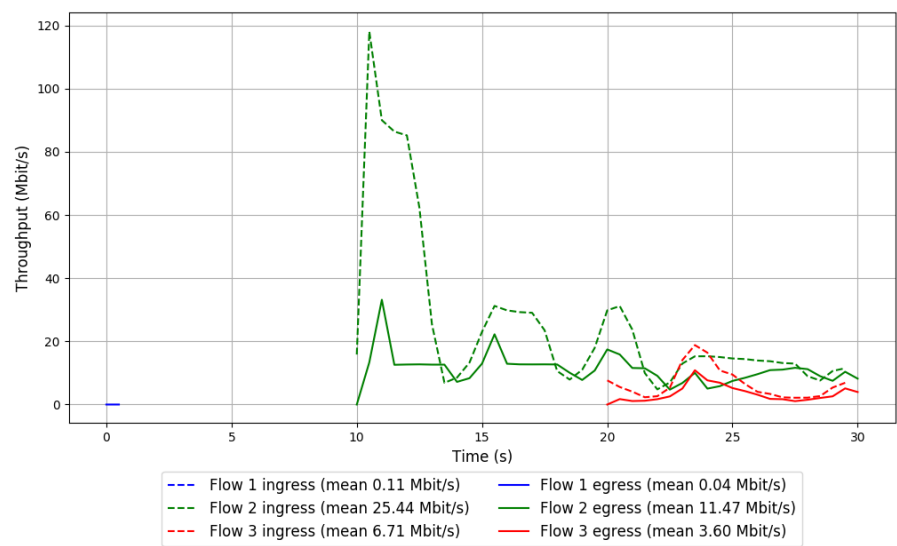
-- Flow 3:

Average throughput: 3.60 Mbit/s

95th percentile per-packet one-way delay: 27.739 ms

Loss rate: 46.31%

Run 2: Report of PCC-Expr — Data Link

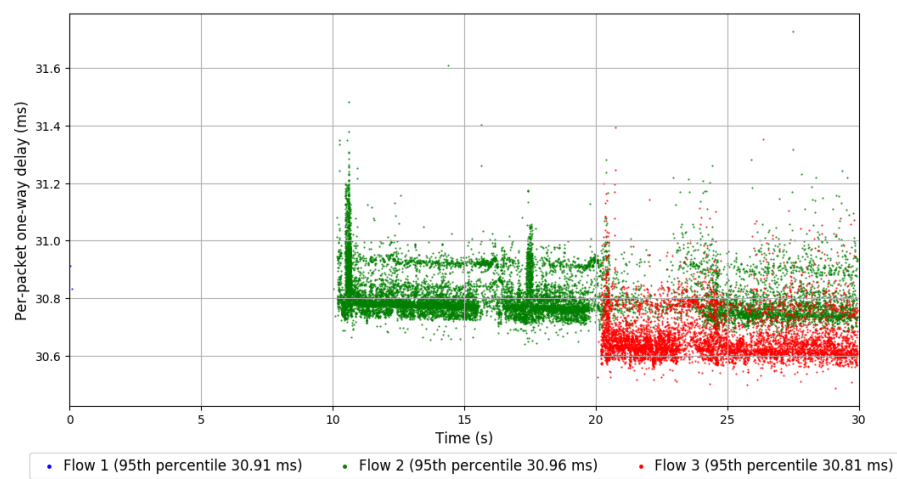
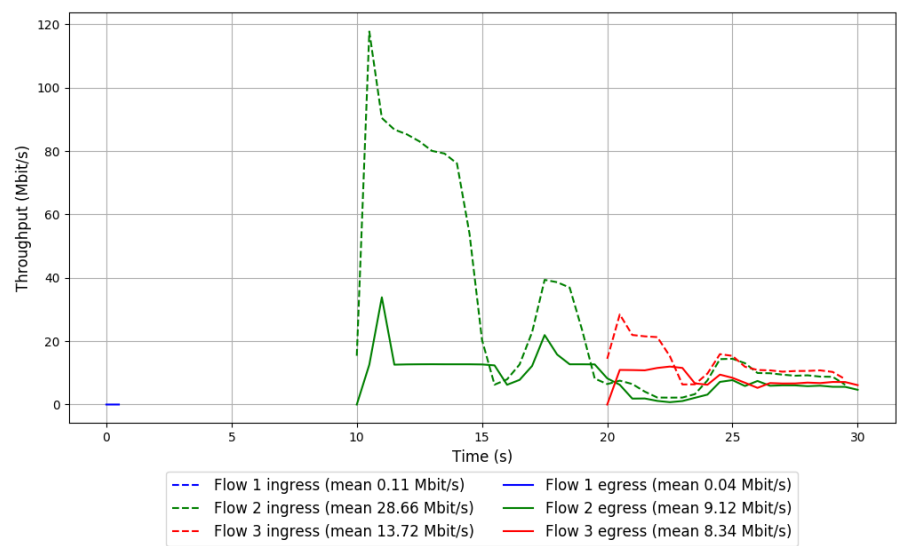


Run 3: Statistics of PCC-Expr

Start at: 2020-02-18 02:42:36  
End at: 2020-02-18 02:43:06  
Local clock offset: 5.087 ms  
Remote clock offset: -0.921 ms

# Below is generated by plot.py at 2020-02-18 03:52:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.82 Mbit/s  
95th percentile per-packet one-way delay: 30.945 ms  
Loss rate: 62.63%  
-- Flow 1:  
Average throughput: 0.04 Mbit/s  
95th percentile per-packet one-way delay: 30.913 ms  
Loss rate: 85.71%  
-- Flow 2:  
Average throughput: 9.12 Mbit/s  
95th percentile per-packet one-way delay: 30.962 ms  
Loss rate: 68.20%  
-- Flow 3:  
Average throughput: 8.34 Mbit/s  
95th percentile per-packet one-way delay: 30.812 ms  
Loss rate: 39.20%

Run 3: Report of PCC-Expr — Data Link

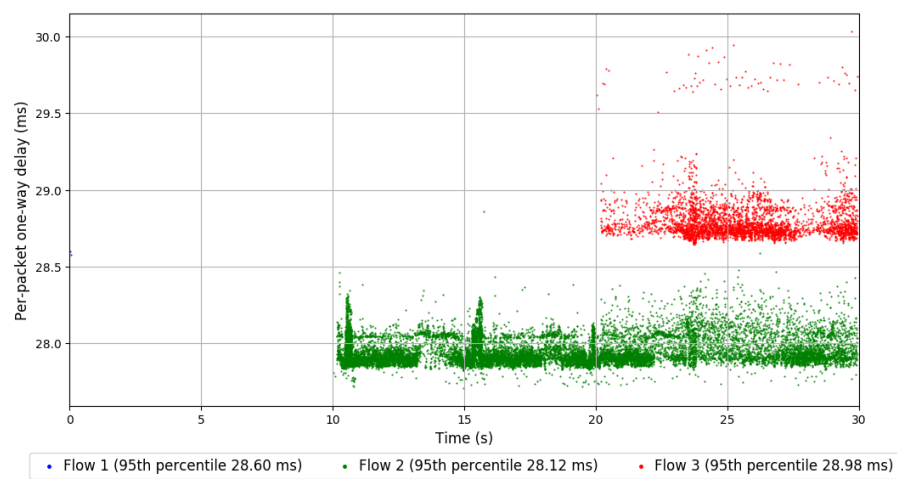
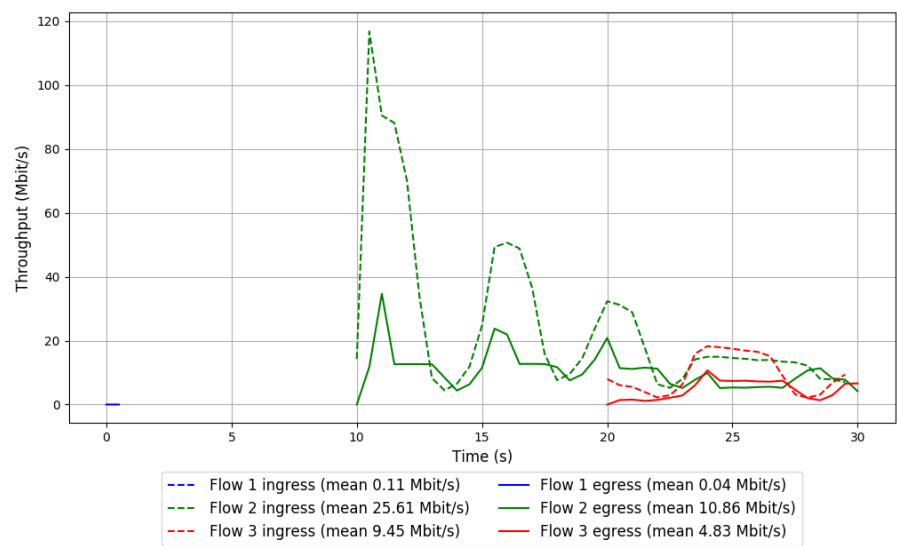


Run 4: Statistics of PCC-Expr

Start at: 2020-02-18 03:10:55  
End at: 2020-02-18 03:11:25  
Local clock offset: 5.523 ms  
Remote clock offset: -1.483 ms

# Below is generated by plot.py at 2020-02-18 03:52:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.82 Mbit/s  
95th percentile per-packet one-way delay: 28.820 ms  
Loss rate: 56.26%  
-- Flow 1:  
Average throughput: 0.04 Mbit/s  
95th percentile per-packet one-way delay: 28.601 ms  
Loss rate: 85.71%  
-- Flow 2:  
Average throughput: 10.86 Mbit/s  
95th percentile per-packet one-way delay: 28.121 ms  
Loss rate: 57.61%  
-- Flow 3:  
Average throughput: 4.83 Mbit/s  
95th percentile per-packet one-way delay: 28.985 ms  
Loss rate: 48.89%

Run 4: Report of PCC-Expr — Data Link

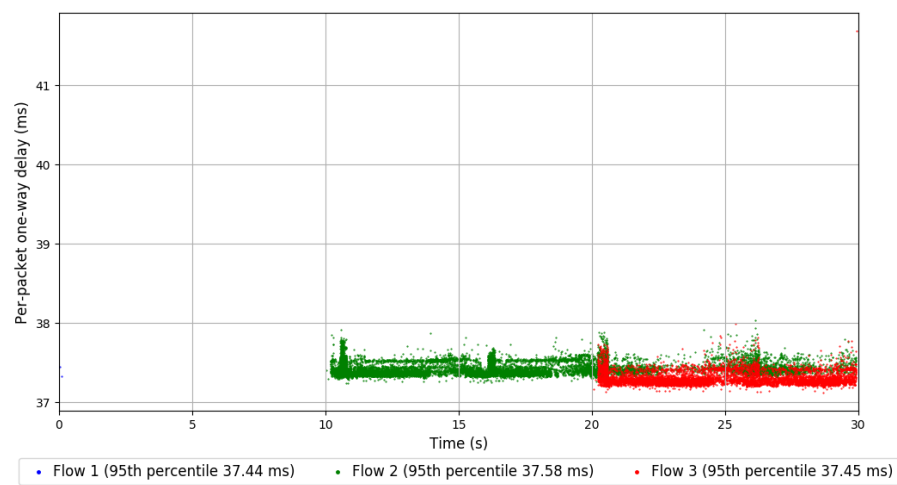
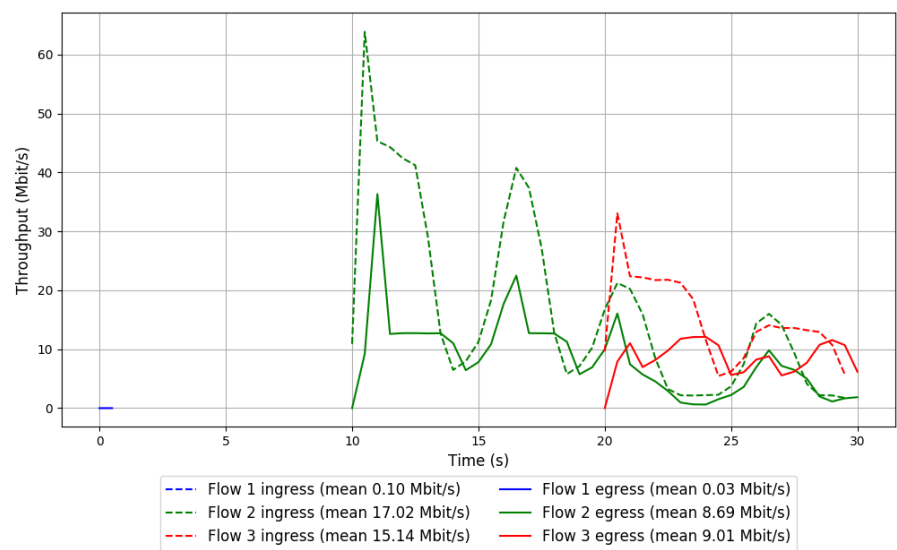


Run 5: Statistics of PCC-Expr

Start at: 2020-02-18 03:39:21  
End at: 2020-02-18 03:39:51  
Local clock offset: 5.18 ms  
Remote clock offset: -3.372 ms

# Below is generated by plot.py at 2020-02-18 03:52:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.76 Mbit/s  
95th percentile per-packet one-way delay: 37.557 ms  
Loss rate: 46.35%  
-- Flow 1:  
Average throughput: 0.03 Mbit/s  
95th percentile per-packet one-way delay: 37.441 ms  
Loss rate: 85.71%  
-- Flow 2:  
Average throughput: 8.69 Mbit/s  
95th percentile per-packet one-way delay: 37.575 ms  
Loss rate: 48.93%  
-- Flow 3:  
Average throughput: 9.01 Mbit/s  
95th percentile per-packet one-way delay: 37.451 ms  
Loss rate: 40.53%

Run 5: Report of PCC-Expr — Data Link



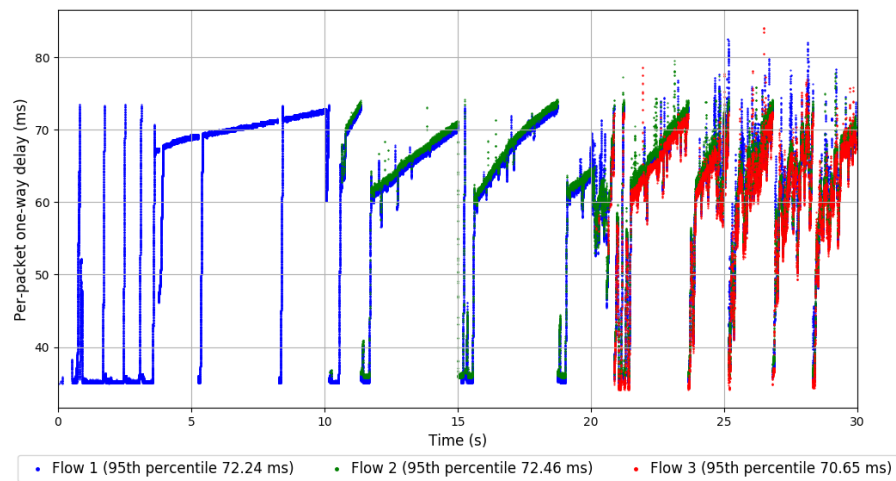
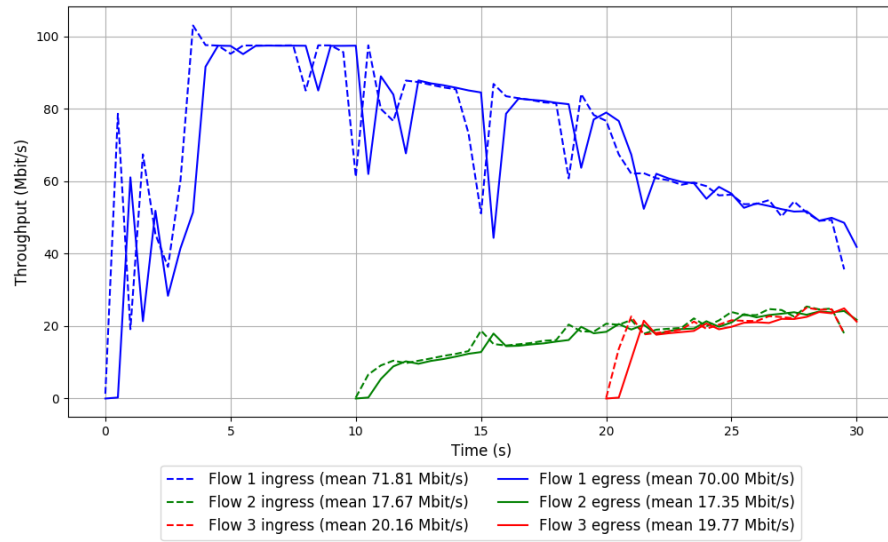


Run 1: Statistics of QUIC Cubic

Start at: 2020-02-18 01:37:31  
End at: 2020-02-18 01:38:01  
Local clock offset: 0.476 ms  
Remote clock offset: -4.207 ms

# Below is generated by plot.py at 2020-02-18 03:53:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.98 Mbit/s  
95th percentile per-packet one-way delay: 72.220 ms  
Loss rate: 2.28%  
-- Flow 1:  
Average throughput: 70.00 Mbit/s  
95th percentile per-packet one-way delay: 72.236 ms  
Loss rate: 2.41%  
-- Flow 2:  
Average throughput: 17.35 Mbit/s  
95th percentile per-packet one-way delay: 72.461 ms  
Loss rate: 1.75%  
-- Flow 3:  
Average throughput: 19.77 Mbit/s  
95th percentile per-packet one-way delay: 70.648 ms  
Loss rate: 1.79%

# Run 1: Report of QUIC Cubic — Data Link

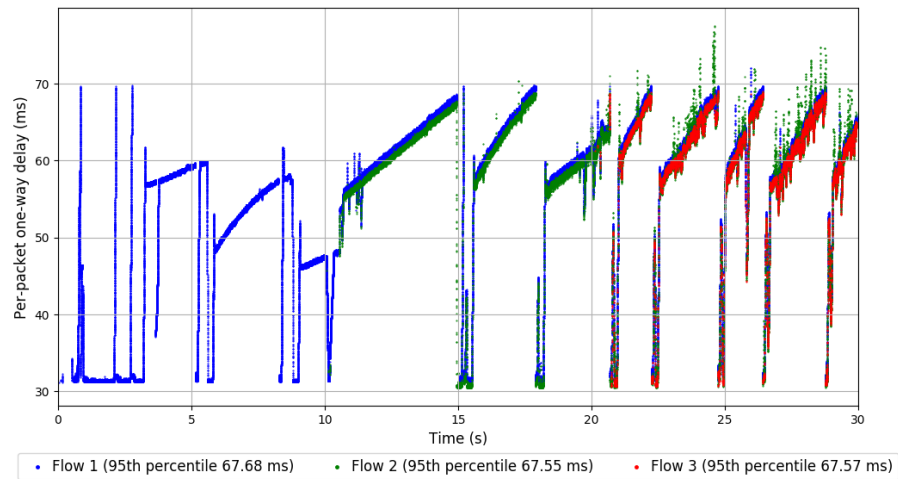
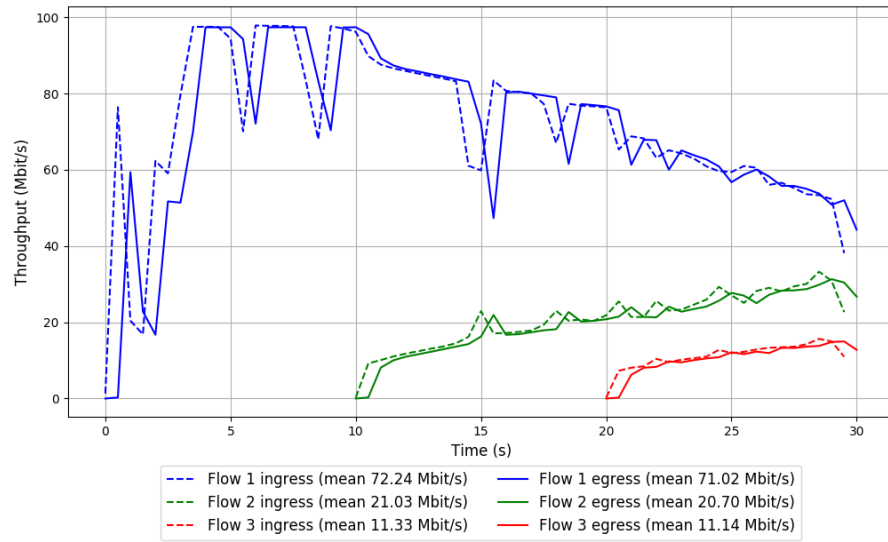


Run 2: Statistics of QUIC Cubic

Start at: 2020-02-18 02:05:56  
End at: 2020-02-18 02:06:26  
Local clock offset: 5.199 ms  
Remote clock offset: -3.913 ms

# Below is generated by plot.py at 2020-02-18 03:53:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.42 Mbit/s  
95th percentile per-packet one-way delay: 67.665 ms  
Loss rate: 1.56%  
-- Flow 1:  
Average throughput: 71.02 Mbit/s  
95th percentile per-packet one-way delay: 67.678 ms  
Loss rate: 1.57%  
-- Flow 2:  
Average throughput: 20.70 Mbit/s  
95th percentile per-packet one-way delay: 67.550 ms  
Loss rate: 1.44%  
-- Flow 3:  
Average throughput: 11.14 Mbit/s  
95th percentile per-packet one-way delay: 67.572 ms  
Loss rate: 1.68%

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

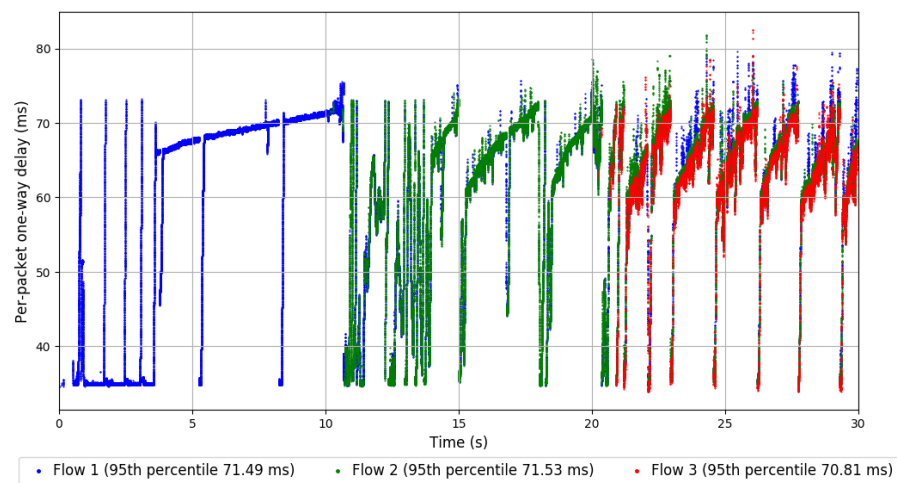
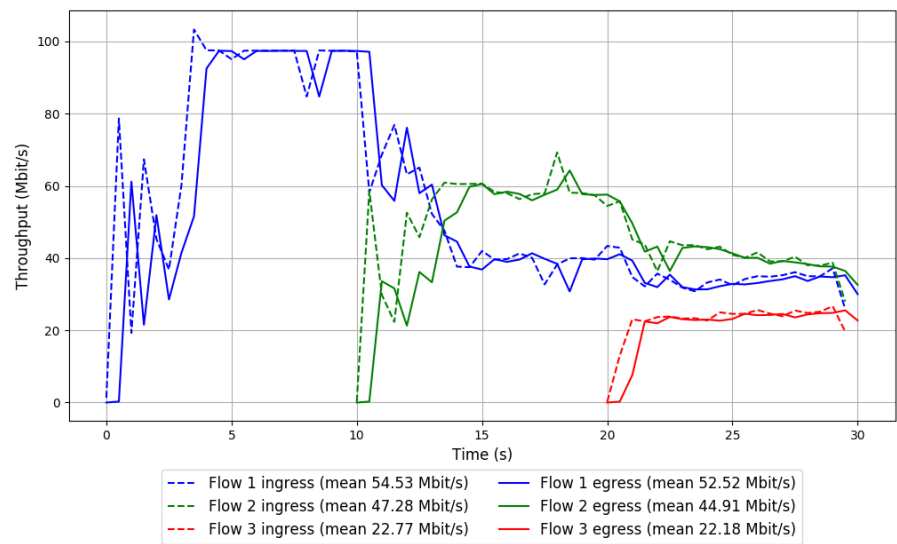


Run 3: Statistics of QUIC Cubic

Start at: 2020-02-18 02:34:17  
End at: 2020-02-18 02:34:47  
Local clock offset: 1.013 ms  
Remote clock offset: -3.286 ms

# Below is generated by plot.py at 2020-02-18 03:53:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.54 Mbit/s  
95th percentile per-packet one-way delay: 71.454 ms  
Loss rate: 3.98%  
-- Flow 1:  
Average throughput: 52.52 Mbit/s  
95th percentile per-packet one-way delay: 71.493 ms  
Loss rate: 3.58%  
-- Flow 2:  
Average throughput: 44.91 Mbit/s  
95th percentile per-packet one-way delay: 71.526 ms  
Loss rate: 5.01%  
-- Flow 3:  
Average throughput: 22.18 Mbit/s  
95th percentile per-packet one-way delay: 70.809 ms  
Loss rate: 2.58%

Run 3: Report of QUIC Cubic — Data Link

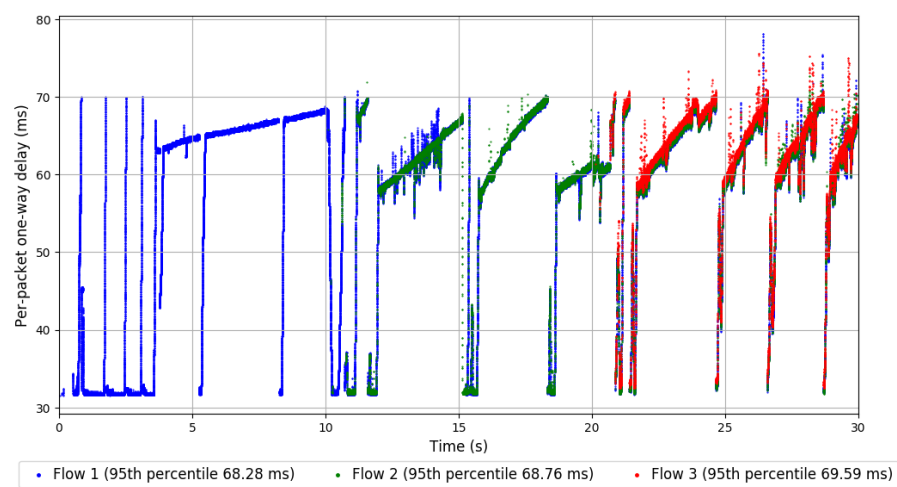
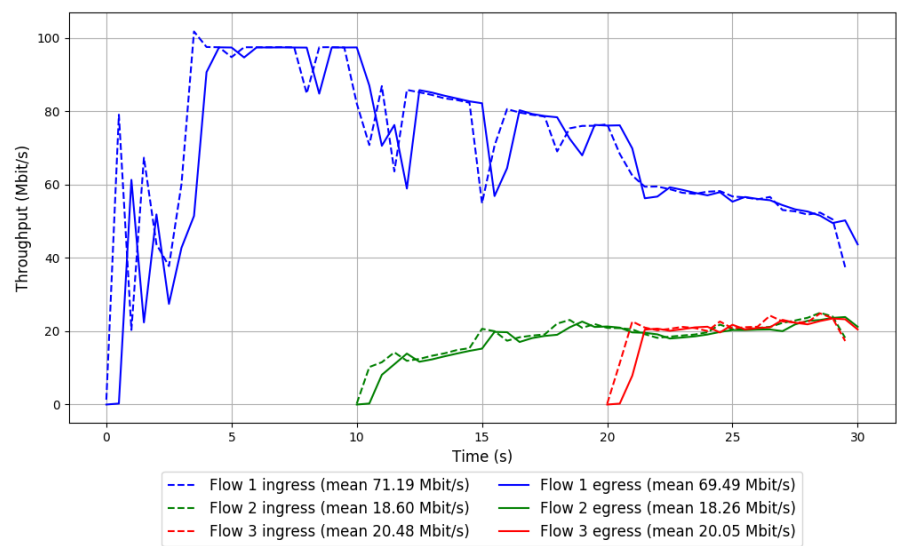


Run 4: Statistics of QUIC Cubic

Start at: 2020-02-18 03:02:36  
End at: 2020-02-18 03:03:06  
Local clock offset: 0.836 ms  
Remote clock offset: -2.117 ms

# Below is generated by plot.py at 2020-02-18 03:53:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.16 Mbit/s  
95th percentile per-packet one-way delay: 68.507 ms  
Loss rate: 2.18%  
-- Flow 1:  
Average throughput: 69.49 Mbit/s  
95th percentile per-packet one-way delay: 68.275 ms  
Loss rate: 2.26%  
-- Flow 2:  
Average throughput: 18.26 Mbit/s  
95th percentile per-packet one-way delay: 68.757 ms  
Loss rate: 1.81%  
-- Flow 3:  
Average throughput: 20.05 Mbit/s  
95th percentile per-packet one-way delay: 69.593 ms  
Loss rate: 2.02%

Run 4: Report of QUIC Cubic — Data Link



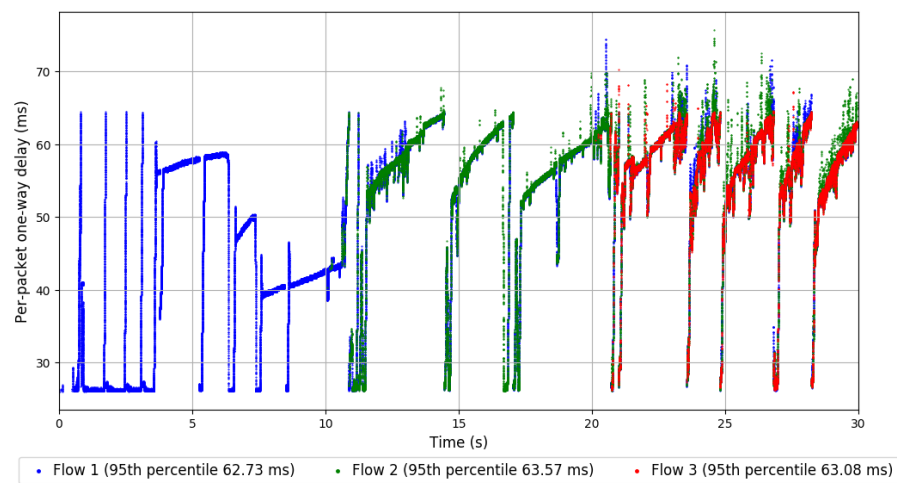
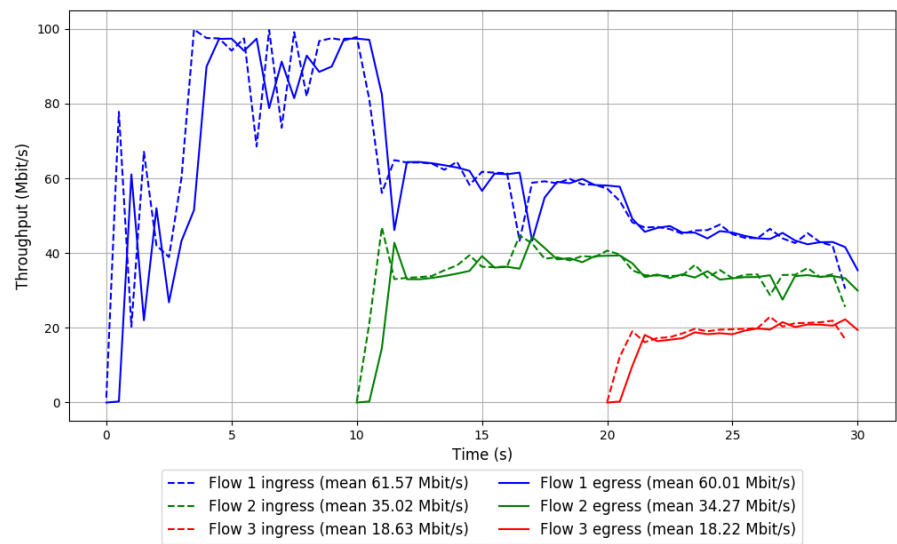


Run 5: Statistics of QUIC Cubic

Start at: 2020-02-18 03:30:59  
End at: 2020-02-18 03:31:29  
Local clock offset: 5.378 ms  
Remote clock offset: -2.917 ms

# Below is generated by plot.py at 2020-02-18 03:53:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.72 Mbit/s  
95th percentile per-packet one-way delay: 63.056 ms  
Loss rate: 2.30%  
-- Flow 1:  
Average throughput: 60.01 Mbit/s  
95th percentile per-packet one-way delay: 62.725 ms  
Loss rate: 2.41%  
-- Flow 2:  
Average throughput: 34.27 Mbit/s  
95th percentile per-packet one-way delay: 63.571 ms  
Loss rate: 2.03%  
-- Flow 3:  
Average throughput: 18.22 Mbit/s  
95th percentile per-packet one-way delay: 63.080 ms  
Loss rate: 2.17%

Run 5: Report of QUIC Cubic — Data Link

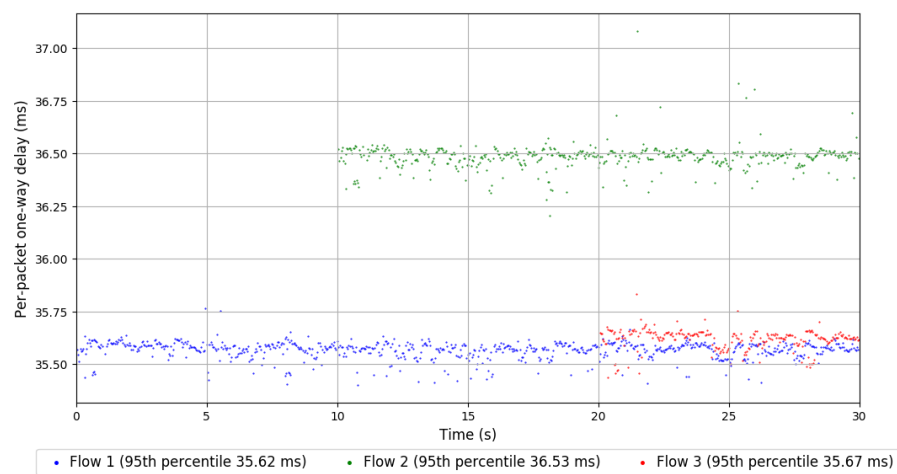
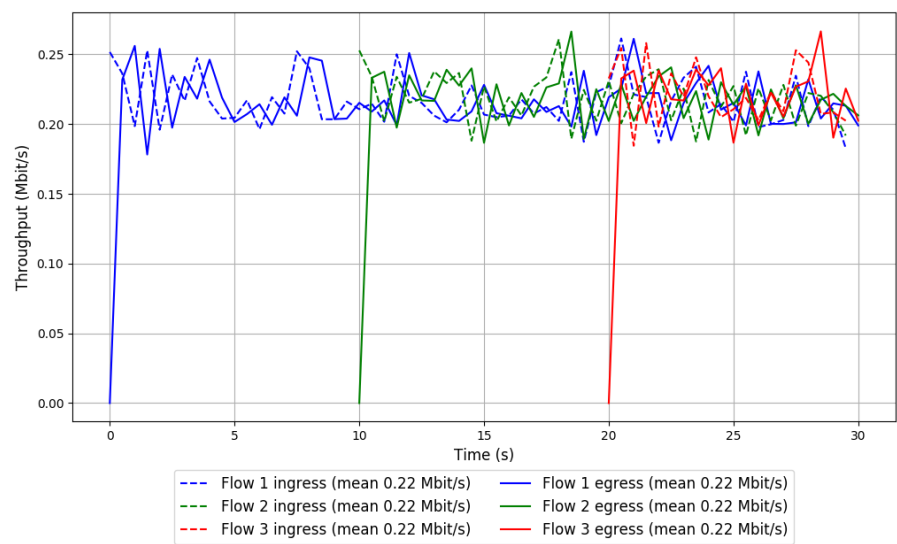


Run 1: Statistics of SReAM

Start at: 2020-02-18 01:38:43  
End at: 2020-02-18 01:39:13  
Local clock offset: 0.402 ms  
Remote clock offset: -3.927 ms

# Below is generated by plot.py at 2020-02-18 03:53:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 36.517 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 35.615 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 36.531 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 35.666 ms  
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

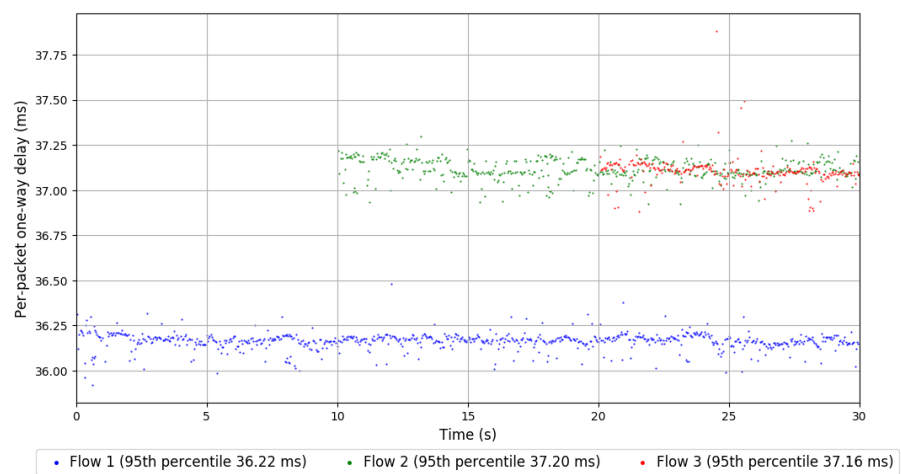
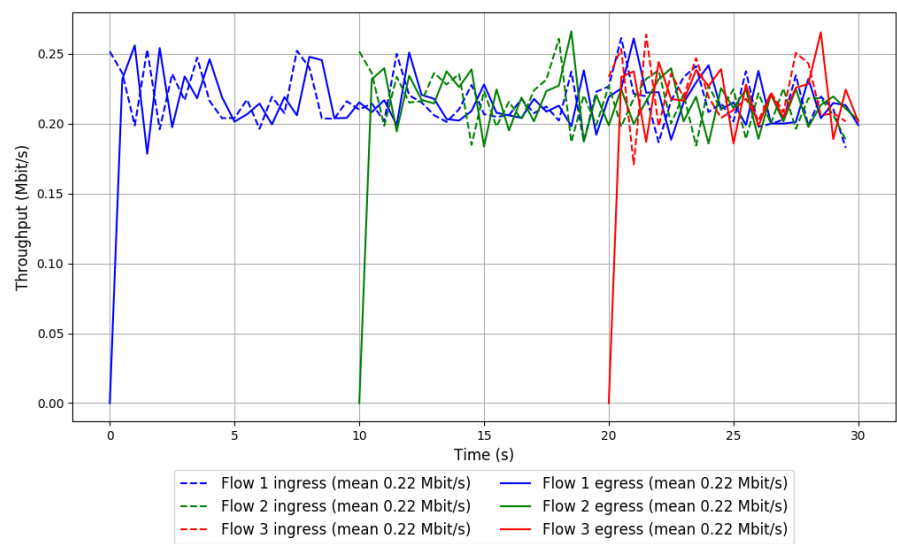


Run 2: Statistics of SReAM

Start at: 2020-02-18 02:07:07  
End at: 2020-02-18 02:07:37  
Local clock offset: -1.443 ms  
Remote clock offset: -4.169 ms

# Below is generated by plot.py at 2020-02-18 03:53:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 37.178 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 36.215 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 37.199 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 37.157 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

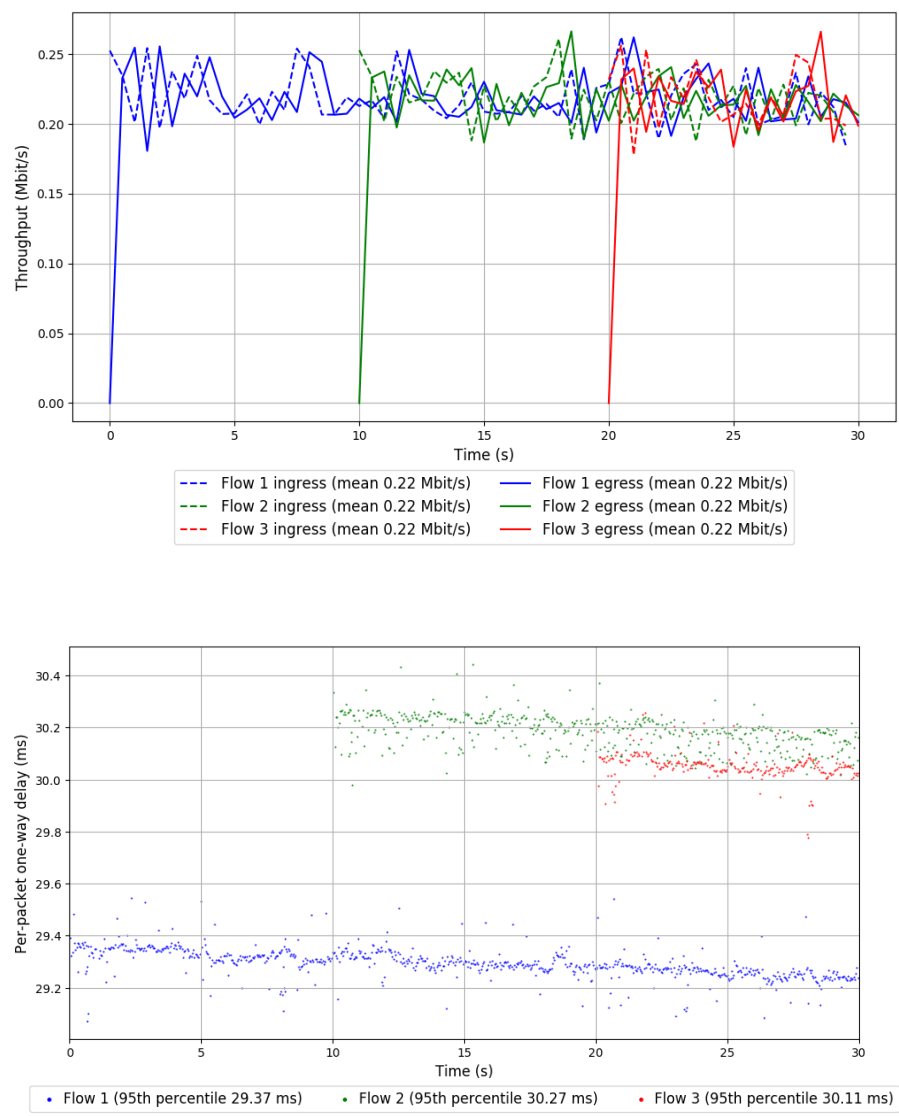


Run 3: Statistics of SReAM

Start at: 2020-02-18 02:35:29  
End at: 2020-02-18 02:35:59  
Local clock offset: 4.948 ms  
Remote clock offset: -3.961 ms

# Below is generated by plot.py at 2020-02-18 03:53:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 30.246 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 29.370 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.265 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.108 ms  
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



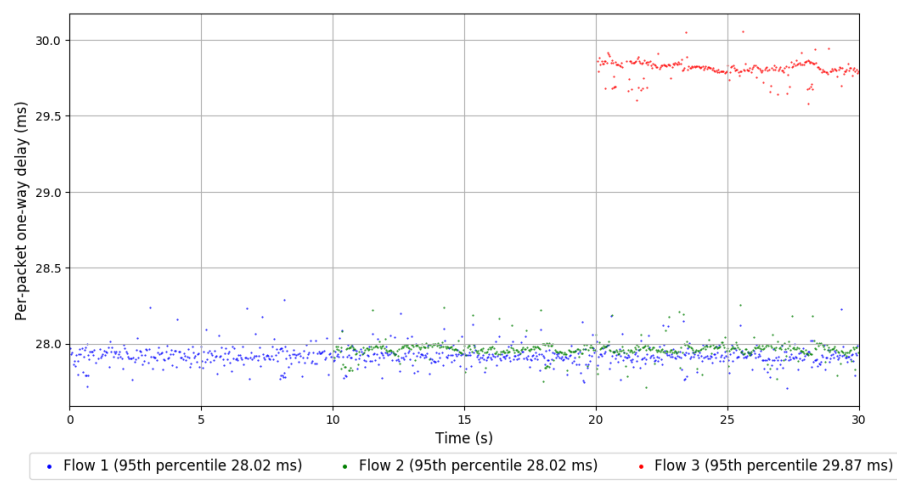
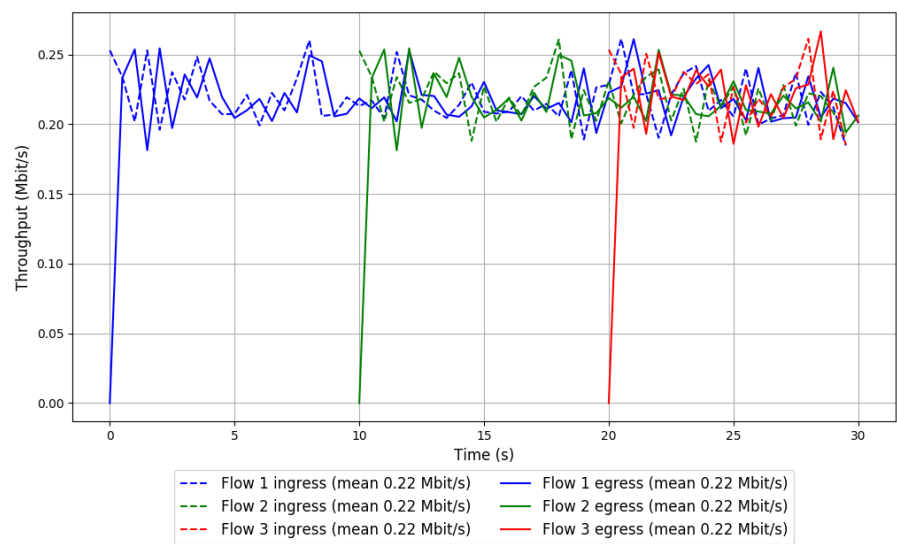


Run 4: Statistics of SReAM

Start at: 2020-02-18 03:03:48  
End at: 2020-02-18 03:04:18  
Local clock offset: 4.932 ms  
Remote clock offset: -1.983 ms

# Below is generated by plot.py at 2020-02-18 03:53:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 29.837 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 28.021 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 28.017 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 29.873 ms  
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

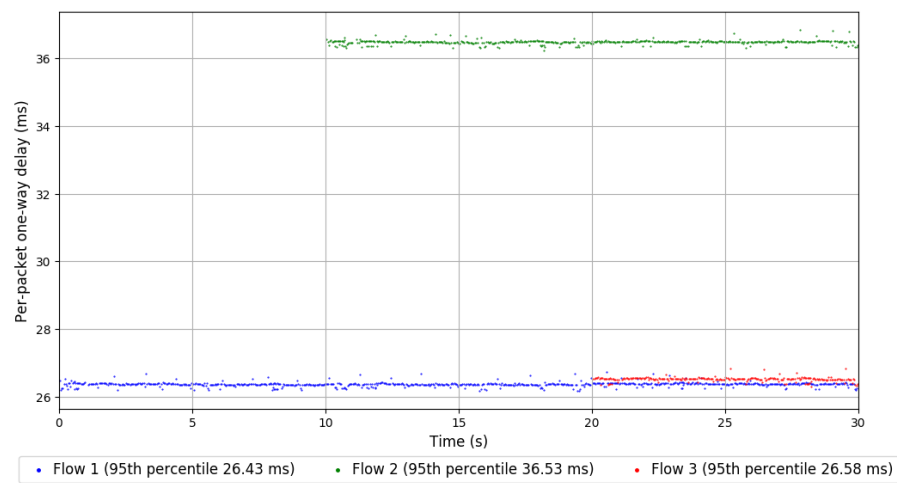
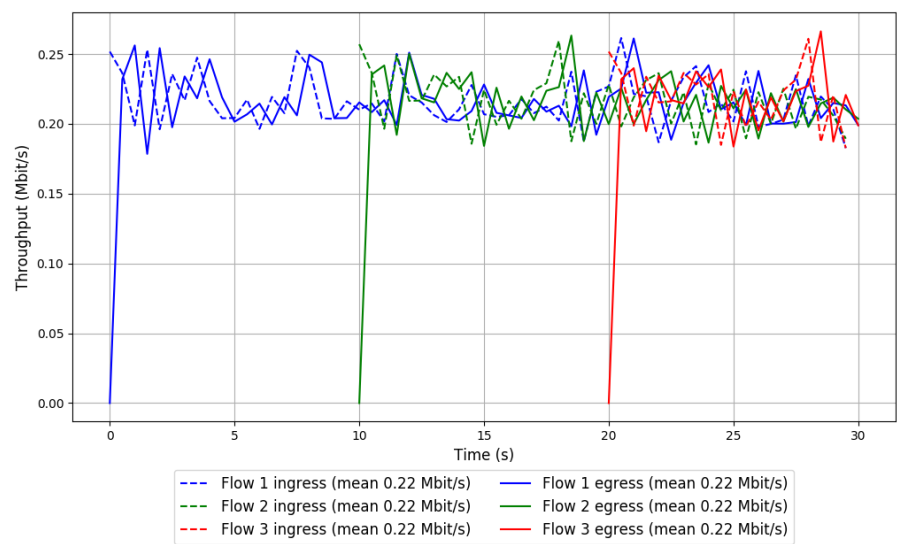


Run 5: Statistics of SReAM

Start at: 2020-02-18 03:32:14  
End at: 2020-02-18 03:32:44  
Local clock offset: 5.952 ms  
Remote clock offset: -3.142 ms

# Below is generated by plot.py at 2020-02-18 03:53:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 36.509 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 26.427 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 36.533 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 26.578 ms  
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

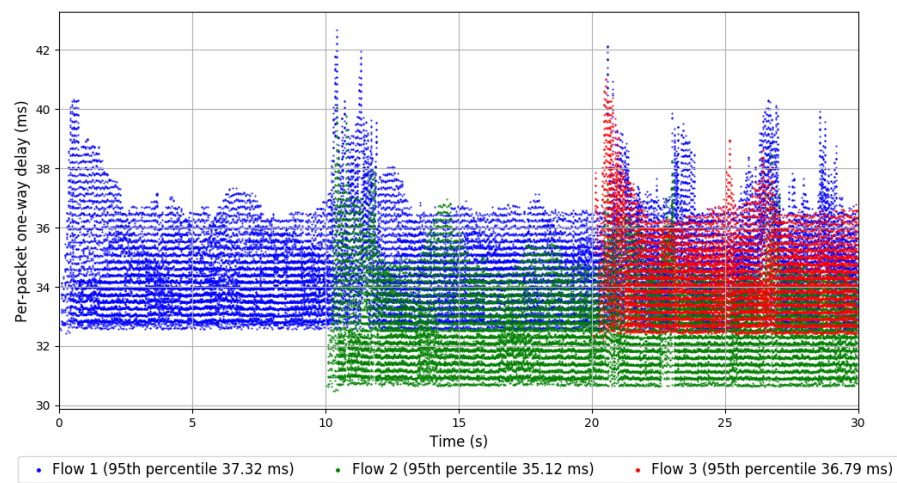
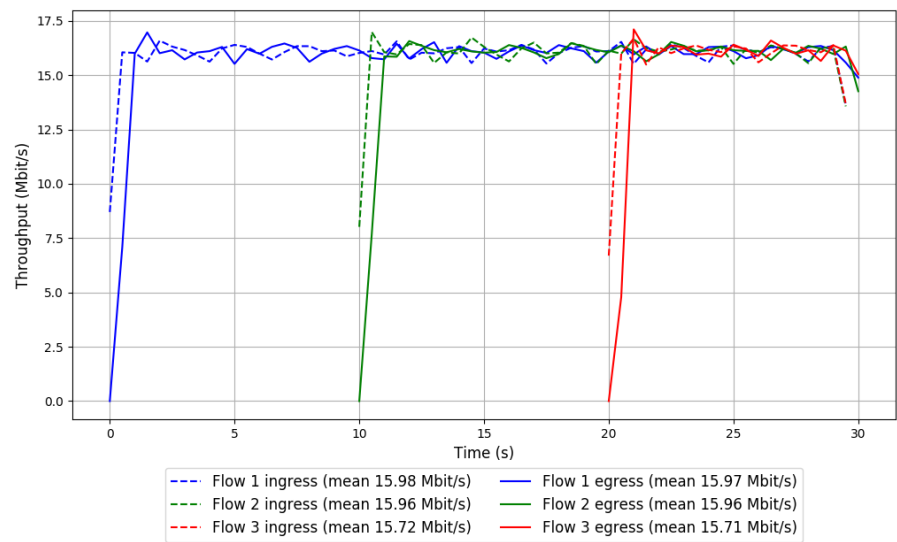


Run 1: Statistics of Sprout

Start at: 2020-02-18 01:28:00  
End at: 2020-02-18 01:28:30  
Local clock offset: 1.707 ms  
Remote clock offset: -6.747 ms

# Below is generated by plot.py at 2020-02-18 03:53:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 31.78 Mbit/s  
95th percentile per-packet one-way delay: 36.743 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 15.97 Mbit/s  
95th percentile per-packet one-way delay: 37.320 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 15.96 Mbit/s  
95th percentile per-packet one-way delay: 35.120 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 15.71 Mbit/s  
95th percentile per-packet one-way delay: 36.787 ms  
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2020-02-18 01:56:25

End at: 2020-02-18 01:56:55

Local clock offset: 0.587 ms

Remote clock offset: -4.62 ms

# Below is generated by plot.py at 2020-02-18 03:53:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 30.56 Mbit/s

95th percentile per-packet one-way delay: 40.292 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 15.02 Mbit/s

95th percentile per-packet one-way delay: 41.044 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 15.78 Mbit/s

95th percentile per-packet one-way delay: 38.761 ms

Loss rate: 0.11%

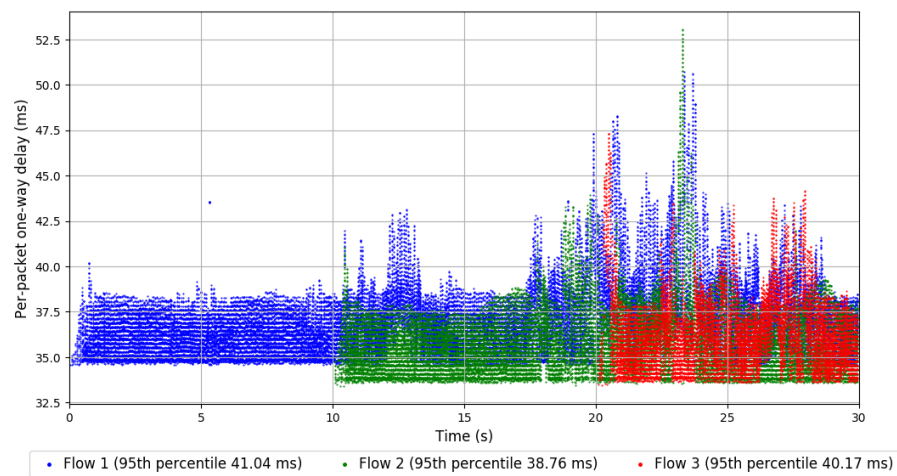
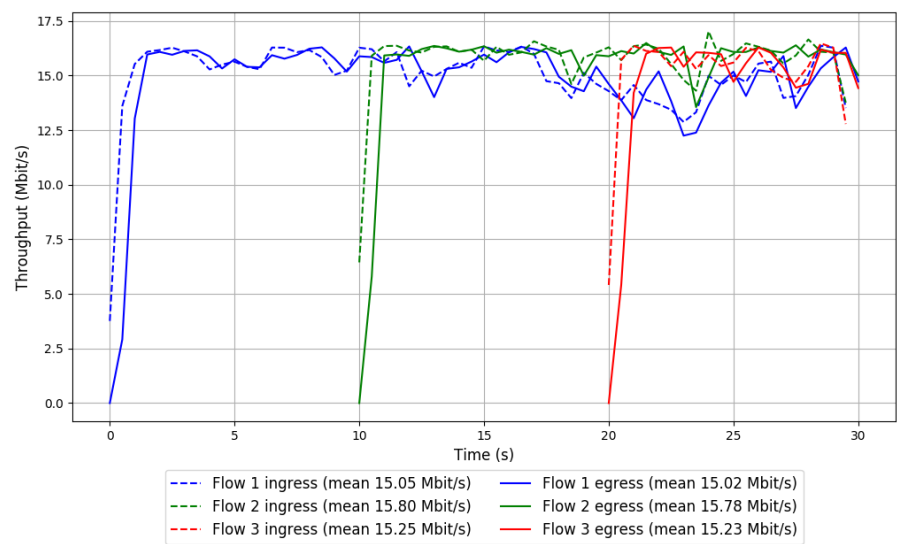
-- Flow 3:

Average throughput: 15.23 Mbit/s

95th percentile per-packet one-way delay: 40.169 ms

Loss rate: 0.11%

Run 2: Report of Sprout — Data Link



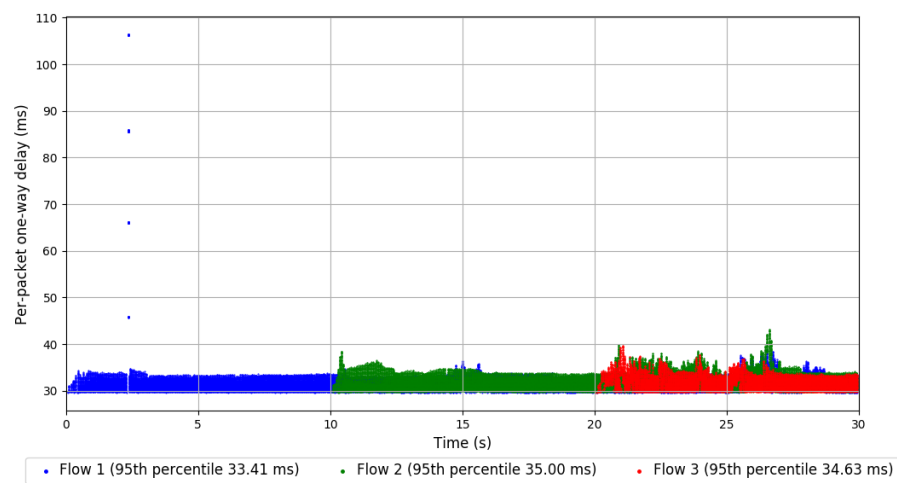
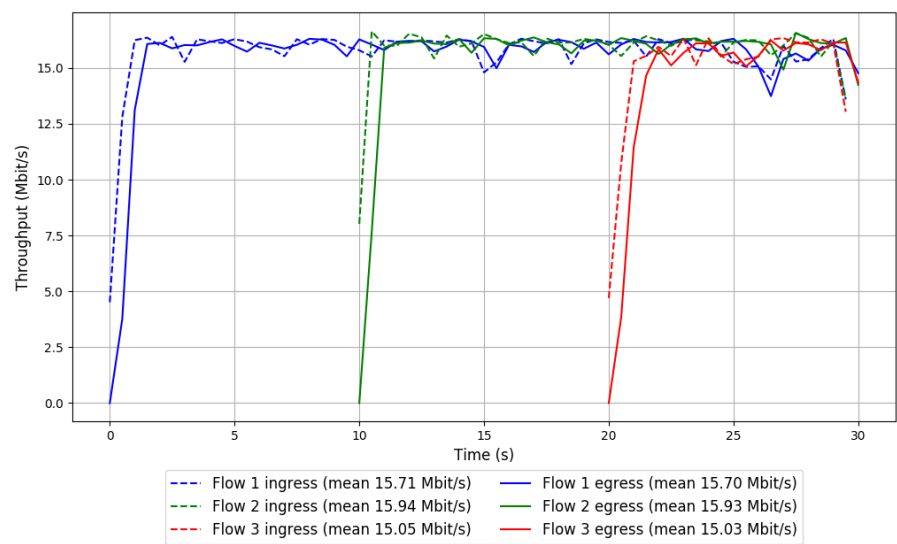


Run 3: Statistics of Sprout

Start at: 2020-02-18 02:24:47  
End at: 2020-02-18 02:25:17  
Local clock offset: 4.938 ms  
Remote clock offset: -4.519 ms

# Below is generated by plot.py at 2020-02-18 03:53:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 31.27 Mbit/s  
95th percentile per-packet one-way delay: 34.328 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 15.70 Mbit/s  
95th percentile per-packet one-way delay: 33.414 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 15.93 Mbit/s  
95th percentile per-packet one-way delay: 34.997 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 15.03 Mbit/s  
95th percentile per-packet one-way delay: 34.630 ms  
Loss rate: 0.08%

Run 3: Report of Sprout — Data Link



#### Run 4: Statistics of Sprout

Start at: 2020-02-18 02:53:06

End at: 2020-02-18 02:53:36

Local clock offset: 5.925 ms

Remote clock offset: 1.143 ms

# Below is generated by plot.py at 2020-02-18 03:53:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 31.42 Mbit/s

95th percentile per-packet one-way delay: 34.358 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 15.83 Mbit/s

95th percentile per-packet one-way delay: 33.721 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 15.63 Mbit/s

95th percentile per-packet one-way delay: 34.789 ms

Loss rate: 0.00%

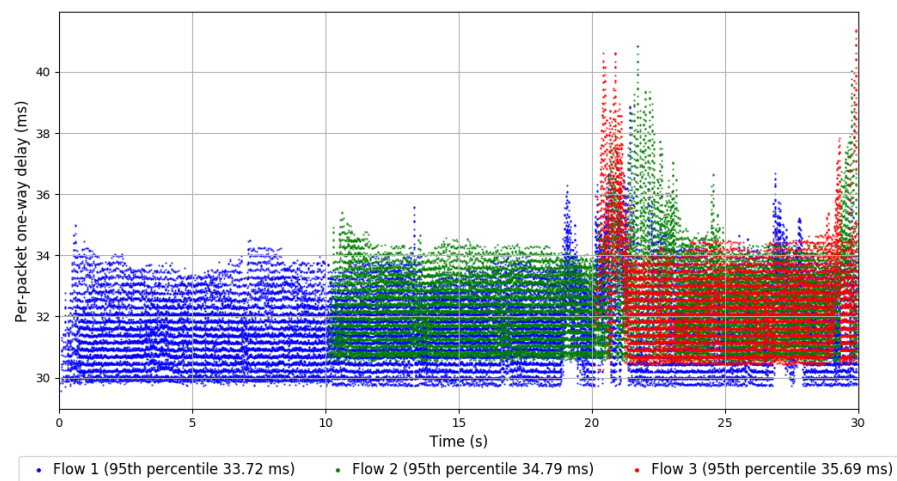
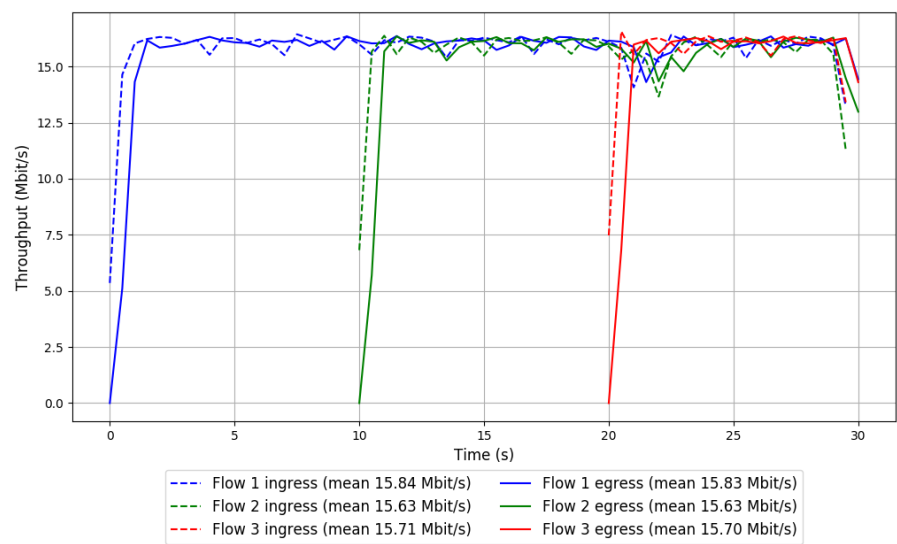
-- Flow 3:

Average throughput: 15.70 Mbit/s

95th percentile per-packet one-way delay: 35.690 ms

Loss rate: 0.02%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2020-02-18 03:21:25

End at: 2020-02-18 03:21:55

Local clock offset: 5.401 ms

Remote clock offset: 0.675 ms

# Below is generated by plot.py at 2020-02-18 03:53:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 31.44 Mbit/s

95th percentile per-packet one-way delay: 36.326 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 15.99 Mbit/s

95th percentile per-packet one-way delay: 36.333 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 15.92 Mbit/s

95th percentile per-packet one-way delay: 35.295 ms

Loss rate: 0.02%

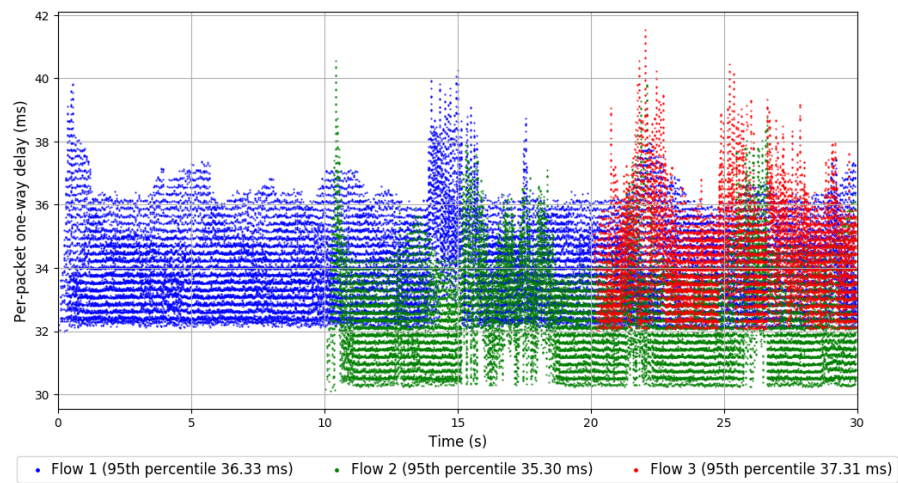
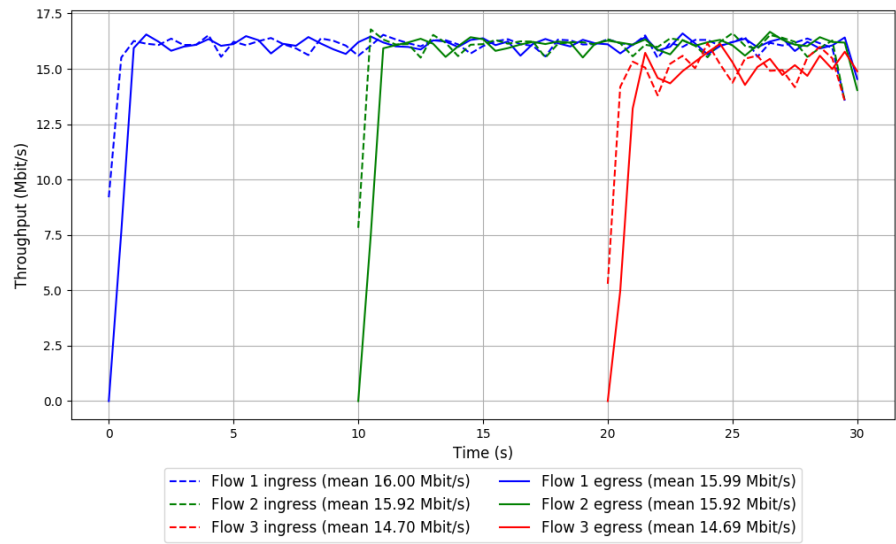
-- Flow 3:

Average throughput: 14.69 Mbit/s

95th percentile per-packet one-way delay: 37.312 ms

Loss rate: 0.00%

## Run 5: Report of Sprout — Data Link

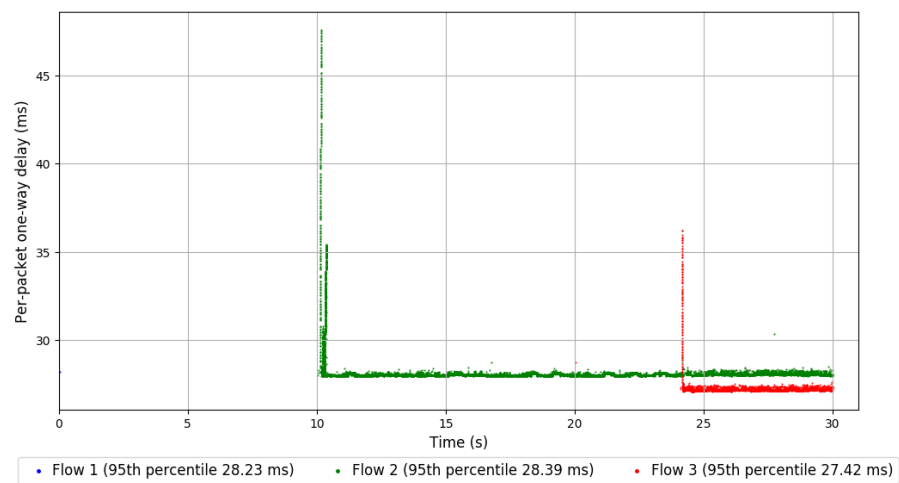
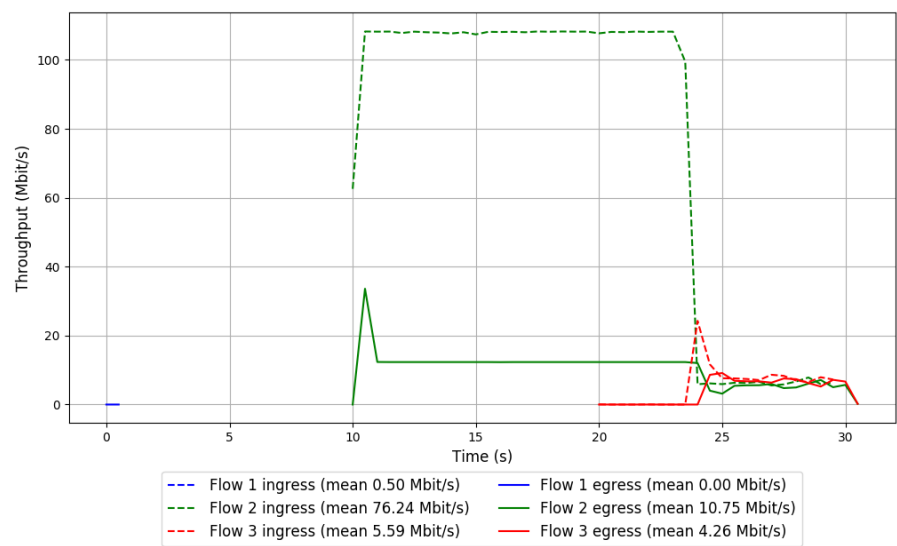


Run 1: Statistics of TaoVA-100x

Start at: 2020-02-18 01:19:49  
End at: 2020-02-18 01:20:19  
Local clock offset: 6.146 ms  
Remote clock offset: -5.808 ms

# Below is generated by plot.py at 2020-02-18 03:53:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.58 Mbit/s  
95th percentile per-packet one-way delay: 28.313 ms  
Loss rate: 83.71%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 28.228 ms  
Loss rate: 95.92%  
-- Flow 2:  
Average throughput: 10.75 Mbit/s  
95th percentile per-packet one-way delay: 28.393 ms  
Loss rate: 85.90%  
-- Flow 3:  
Average throughput: 4.26 Mbit/s  
95th percentile per-packet one-way delay: 27.417 ms  
Loss rate: 23.77%

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



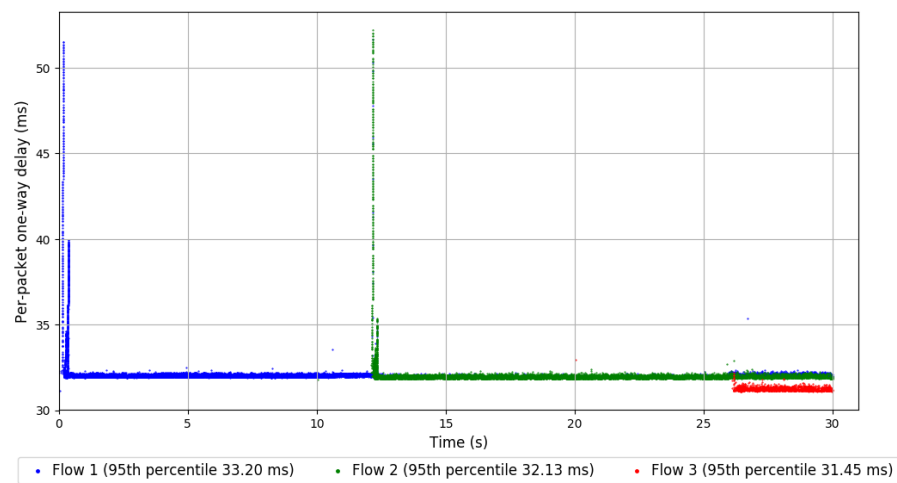
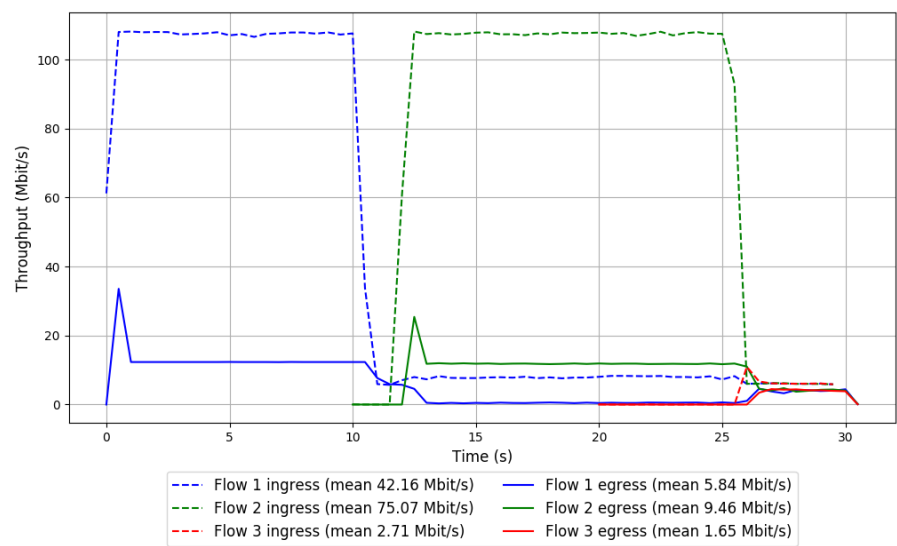


Run 2: Statistics of TaoVA-100x

Start at: 2020-02-18 01:48:12  
End at: 2020-02-18 01:48:42  
Local clock offset: 0.685 ms  
Remote clock offset: -7.038 ms

# Below is generated by plot.py at 2020-02-18 03:53:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.69 Mbit/s  
95th percentile per-packet one-way delay: 32.213 ms  
Loss rate: 86.37%  
-- Flow 1:  
Average throughput: 5.84 Mbit/s  
95th percentile per-packet one-way delay: 33.200 ms  
Loss rate: 86.15%  
-- Flow 2:  
Average throughput: 9.46 Mbit/s  
95th percentile per-packet one-way delay: 32.134 ms  
Loss rate: 87.40%  
-- Flow 3:  
Average throughput: 1.65 Mbit/s  
95th percentile per-packet one-way delay: 31.445 ms  
Loss rate: 39.36%

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

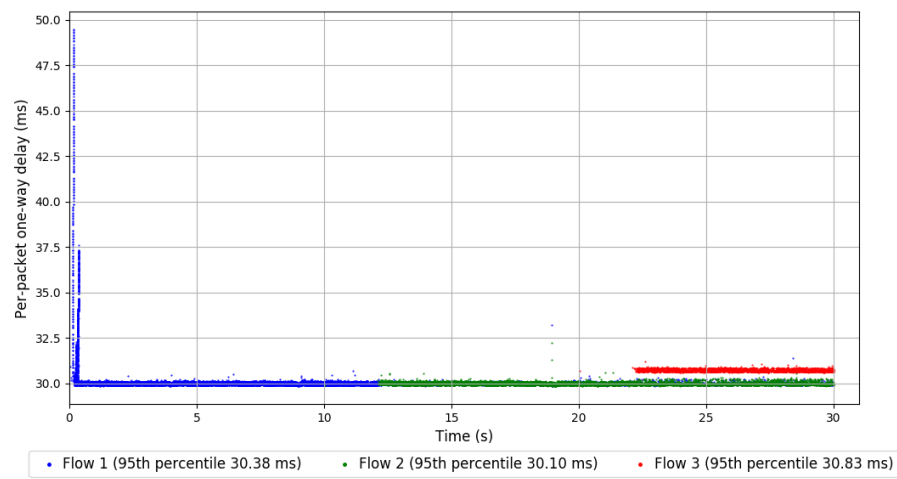
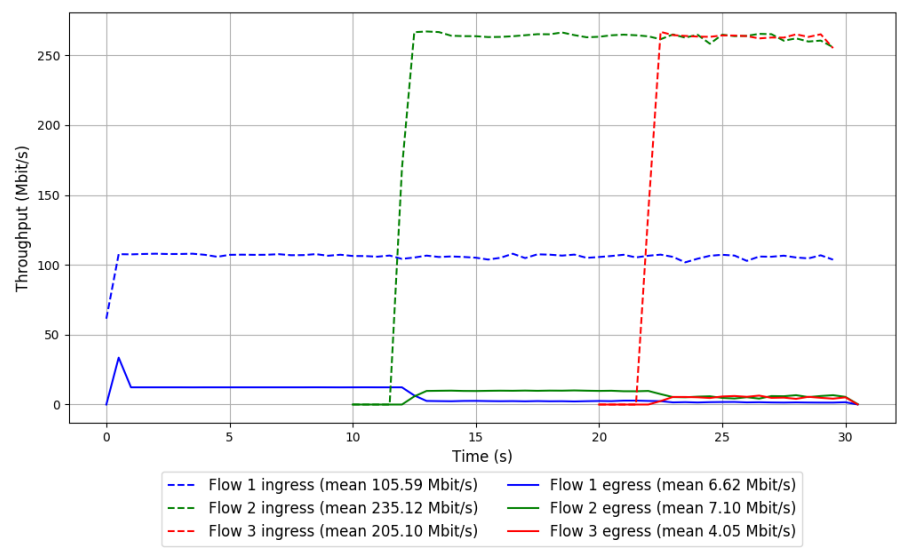


Run 3: Statistics of TaoVA-100x

Start at: 2020-02-18 02:16:34  
End at: 2020-02-18 02:17:04  
Local clock offset: 4.501 ms  
Remote clock offset: -4.151 ms

# Below is generated by plot.py at 2020-02-18 03:54:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.69 Mbit/s  
95th percentile per-packet one-way delay: 30.736 ms  
Loss rate: 96.16%  
-- Flow 1:  
Average throughput: 6.62 Mbit/s  
95th percentile per-packet one-way delay: 30.378 ms  
Loss rate: 93.73%  
-- Flow 2:  
Average throughput: 7.10 Mbit/s  
95th percentile per-packet one-way delay: 30.098 ms  
Loss rate: 96.98%  
-- Flow 3:  
Average throughput: 4.05 Mbit/s  
95th percentile per-packet one-way delay: 30.827 ms  
Loss rate: 98.03%

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

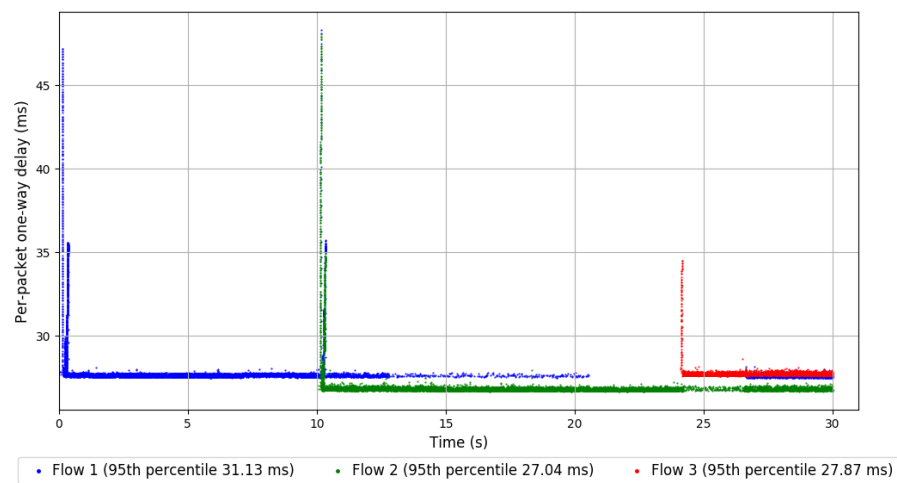
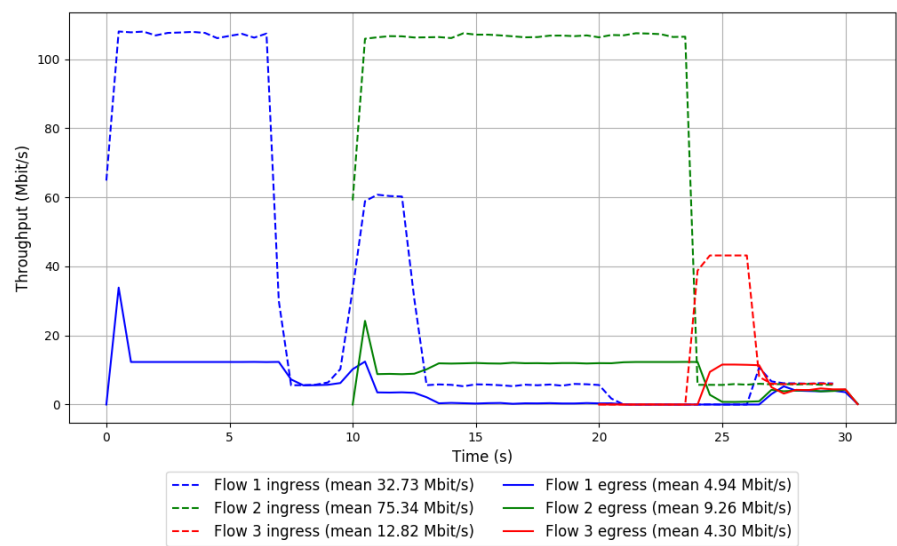


Run 4: Statistics of TaoVA-100x

Start at: 2020-02-18 02:44:56  
End at: 2020-02-18 02:45:26  
Local clock offset: 5.881 ms  
Remote clock offset: -2.844 ms

# Below is generated by plot.py at 2020-02-18 03:54:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.54 Mbit/s  
95th percentile per-packet one-way delay: 28.537 ms  
Loss rate: 85.61%  
-- Flow 1:  
Average throughput: 4.94 Mbit/s  
95th percentile per-packet one-way delay: 31.126 ms  
Loss rate: 84.89%  
-- Flow 2:  
Average throughput: 9.26 Mbit/s  
95th percentile per-packet one-way delay: 27.042 ms  
Loss rate: 87.71%  
-- Flow 3:  
Average throughput: 4.30 Mbit/s  
95th percentile per-packet one-way delay: 27.873 ms  
Loss rate: 66.46%

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

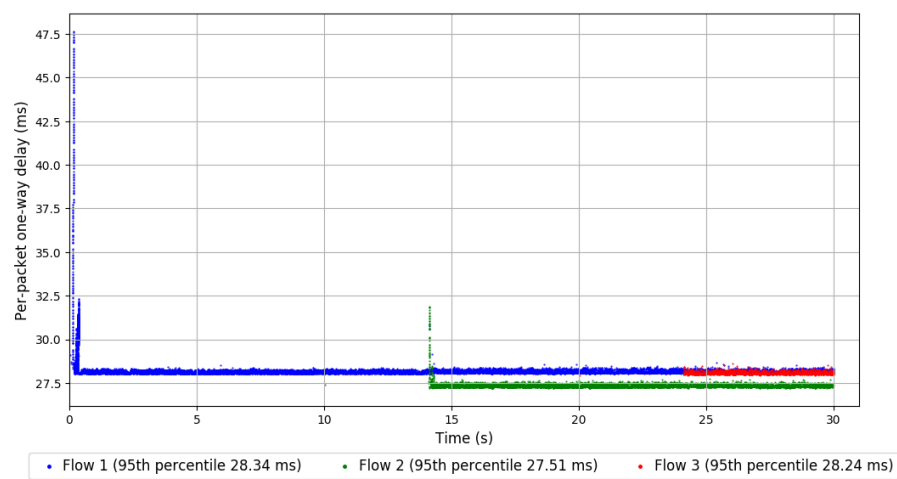
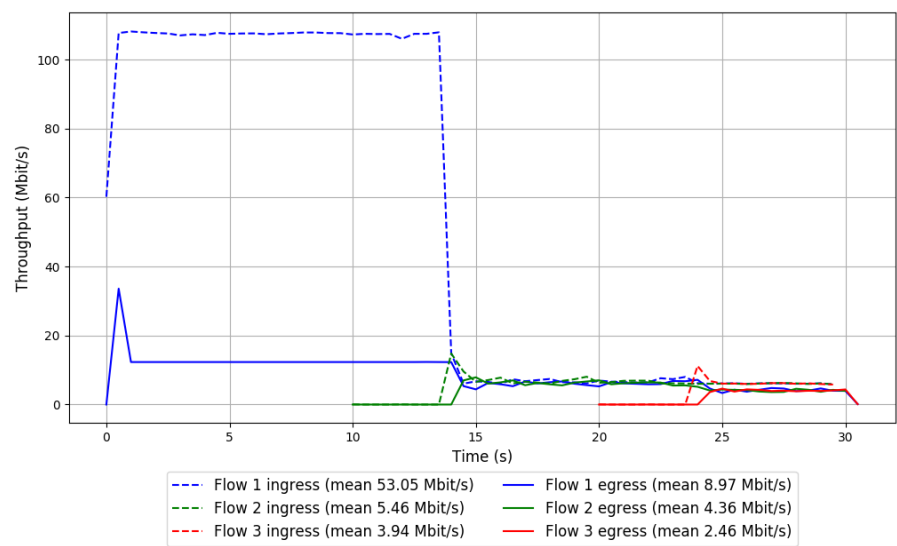


Run 5: Statistics of TaoVA-100x

Start at: 2020-02-18 03:13:15  
End at: 2020-02-18 03:13:45  
Local clock offset: 5.585 ms  
Remote clock offset: -2.077 ms

# Below is generated by plot.py at 2020-02-18 03:54:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.69 Mbit/s  
95th percentile per-packet one-way delay: 28.302 ms  
Loss rate: 78.12%  
-- Flow 1:  
Average throughput: 8.97 Mbit/s  
95th percentile per-packet one-way delay: 28.345 ms  
Loss rate: 83.09%  
-- Flow 2:  
Average throughput: 4.36 Mbit/s  
95th percentile per-packet one-way delay: 27.508 ms  
Loss rate: 20.33%  
-- Flow 3:  
Average throughput: 2.46 Mbit/s  
95th percentile per-packet one-way delay: 28.243 ms  
Loss rate: 37.67%

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



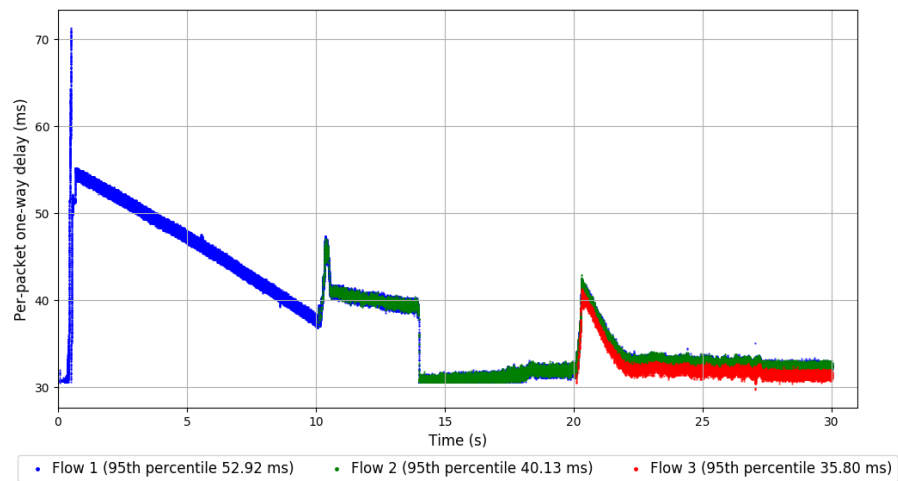
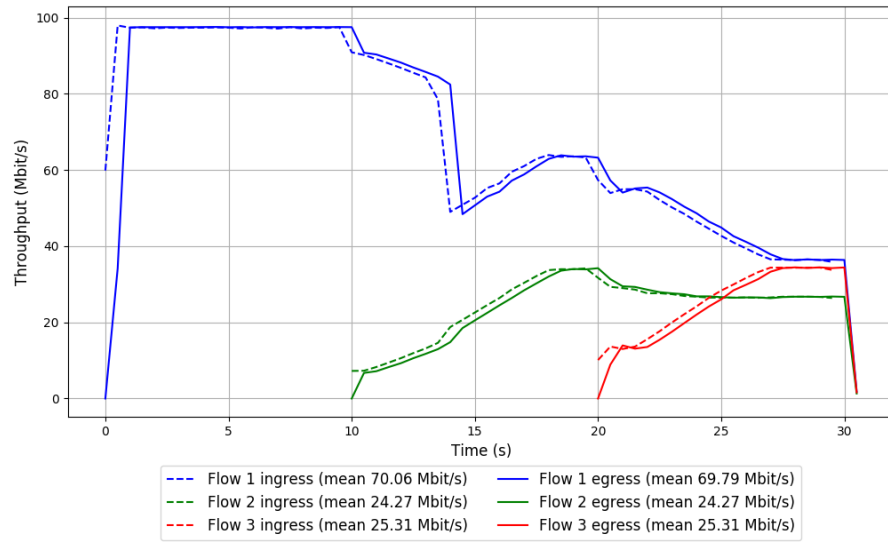


Run 1: Statistics of TCP Vegas

Start at: 2020-02-18 01:35:07  
End at: 2020-02-18 01:35:37  
Local clock offset: 5.448 ms  
Remote clock offset: -4.621 ms

# Below is generated by plot.py at 2020-02-18 03:54:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.37 Mbit/s  
95th percentile per-packet one-way delay: 52.226 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 69.79 Mbit/s  
95th percentile per-packet one-way delay: 52.920 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 24.27 Mbit/s  
95th percentile per-packet one-way delay: 40.134 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 25.31 Mbit/s  
95th percentile per-packet one-way delay: 35.798 ms  
Loss rate: 0.00%

# Run 1: Report of TCP Vegas — Data Link

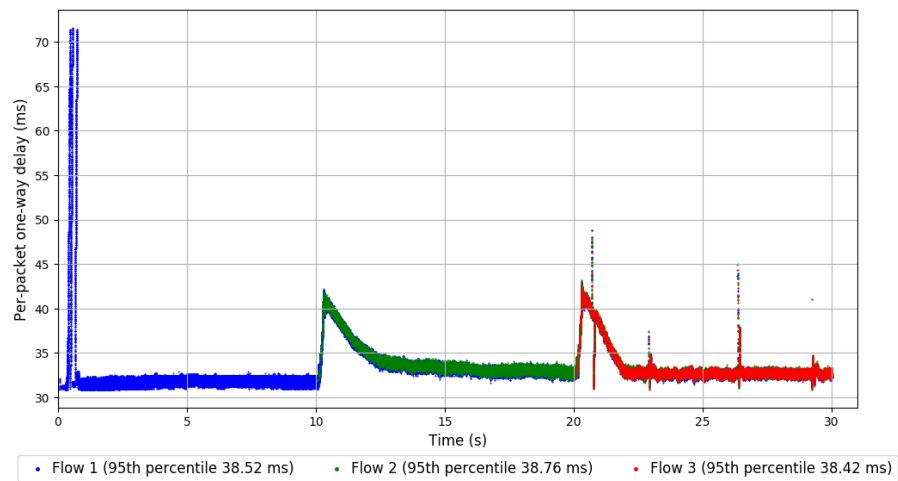
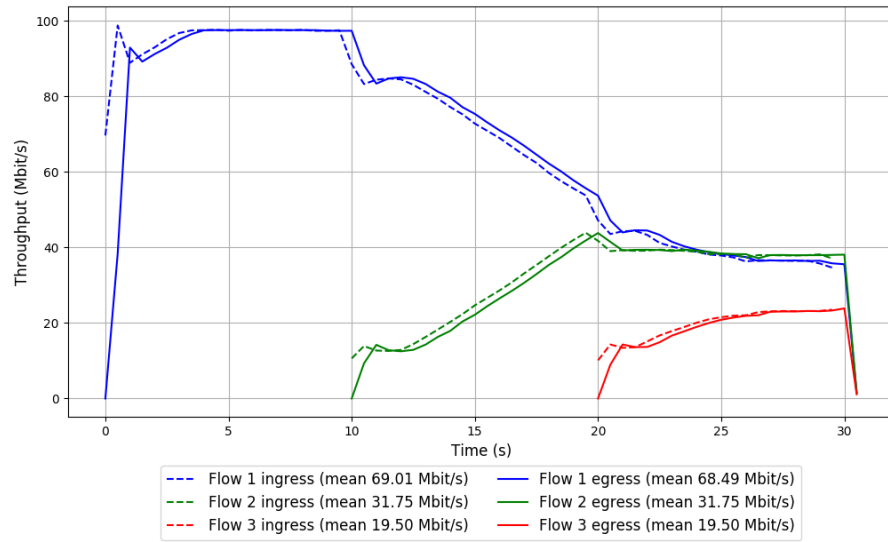


Run 2: Statistics of TCP Vegas

Start at: 2020-02-18 02:03:33  
End at: 2020-02-18 02:04:03  
Local clock offset: 5.511 ms  
Remote clock offset: -2.408 ms

# Below is generated by plot.py at 2020-02-18 03:54:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.12 Mbit/s  
95th percentile per-packet one-way delay: 38.544 ms  
Loss rate: 0.54%  
-- Flow 1:  
Average throughput: 68.49 Mbit/s  
95th percentile per-packet one-way delay: 38.519 ms  
Loss rate: 0.75%  
-- Flow 2:  
Average throughput: 31.75 Mbit/s  
95th percentile per-packet one-way delay: 38.757 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 19.50 Mbit/s  
95th percentile per-packet one-way delay: 38.425 ms  
Loss rate: 0.00%

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

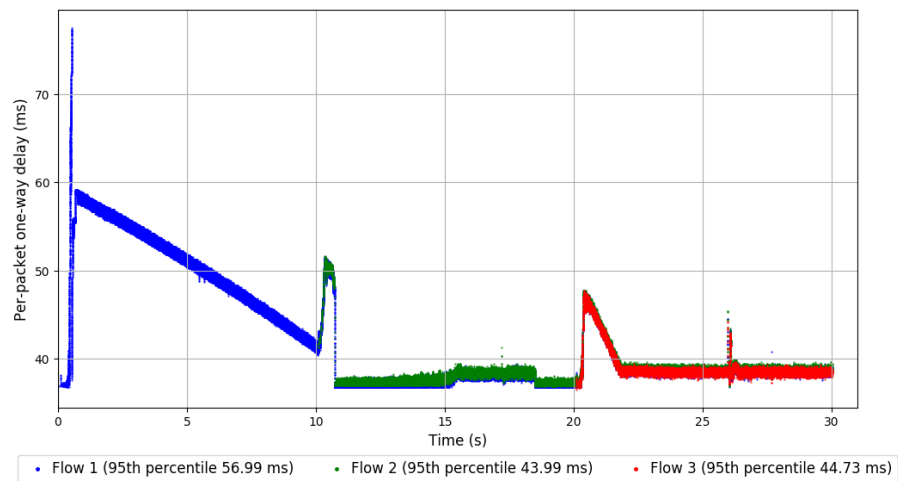
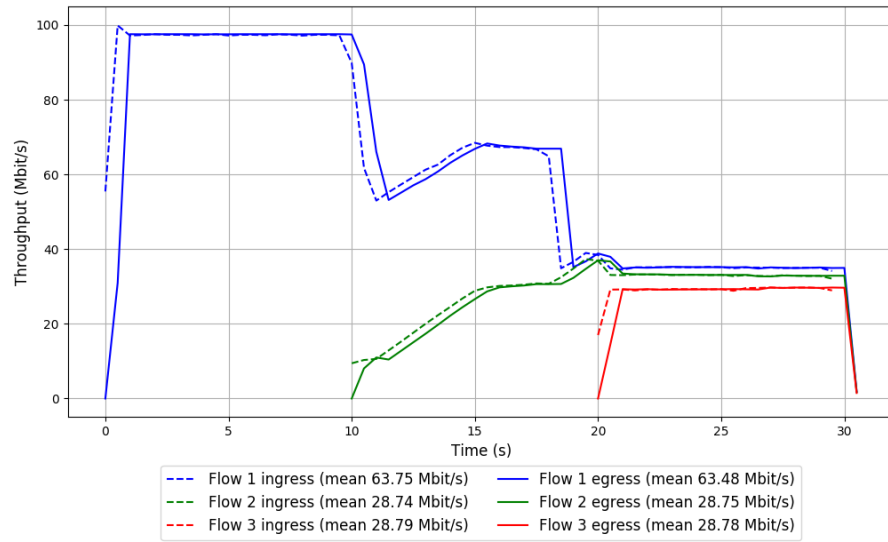


Run 3: Statistics of TCP Vegas

Start at: 2020-02-18 02:31:54  
End at: 2020-02-18 02:32:24  
Local clock offset: 0.682 ms  
Remote clock offset: -1.201 ms

# Below is generated by plot.py at 2020-02-18 03:54:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.20 Mbit/s  
95th percentile per-packet one-way delay: 56.240 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 63.48 Mbit/s  
95th percentile per-packet one-way delay: 56.988 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 28.75 Mbit/s  
95th percentile per-packet one-way delay: 43.988 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 28.78 Mbit/s  
95th percentile per-packet one-way delay: 44.733 ms  
Loss rate: 0.00%

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

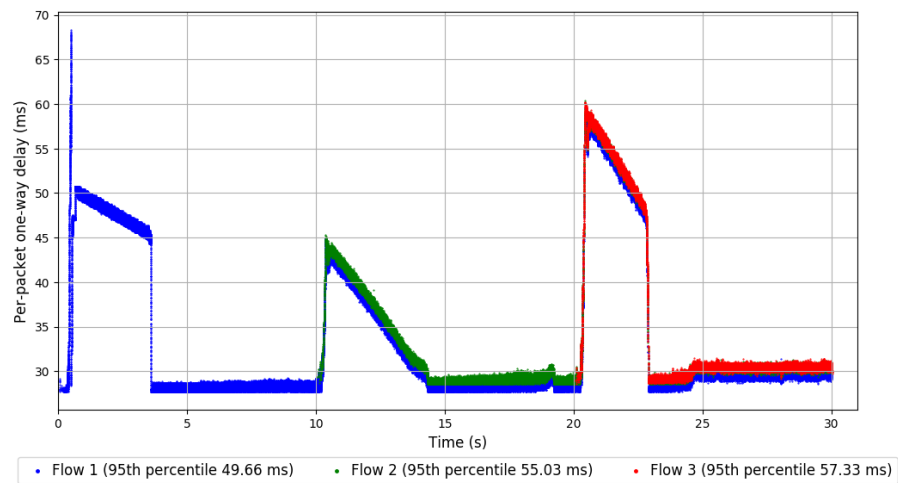
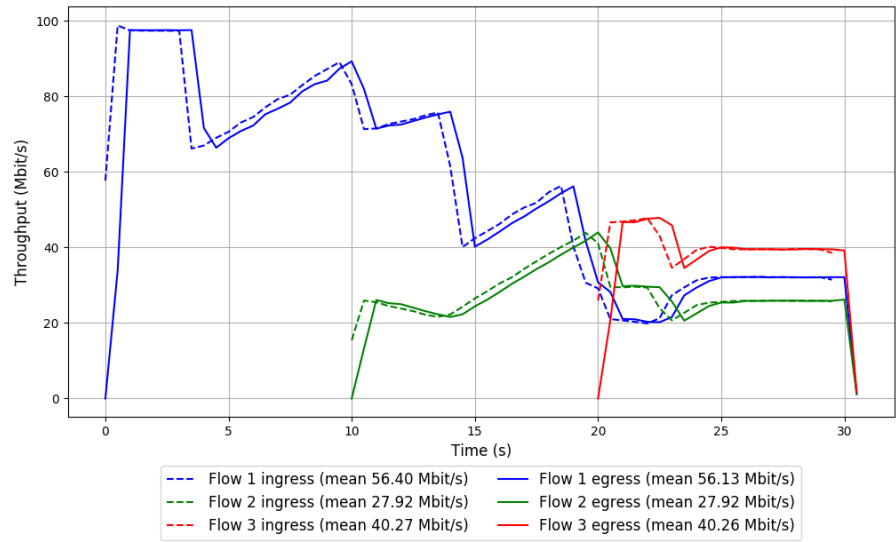


Run 4: Statistics of TCP Vegas

Start at: 2020-02-18 03:00:13  
End at: 2020-02-18 03:00:43  
Local clock offset: 5.14 ms  
Remote clock offset: -1.818 ms

# Below is generated by plot.py at 2020-02-18 03:54:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.11 Mbit/s  
95th percentile per-packet one-way delay: 53.192 ms  
Loss rate: 0.30%  
-- Flow 1:  
Average throughput: 56.13 Mbit/s  
95th percentile per-packet one-way delay: 49.663 ms  
Loss rate: 0.46%  
-- Flow 2:  
Average throughput: 27.92 Mbit/s  
95th percentile per-packet one-way delay: 55.028 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 40.26 Mbit/s  
95th percentile per-packet one-way delay: 57.332 ms  
Loss rate: 0.00%

# Run 4: Report of TCP Vegas — Data Link



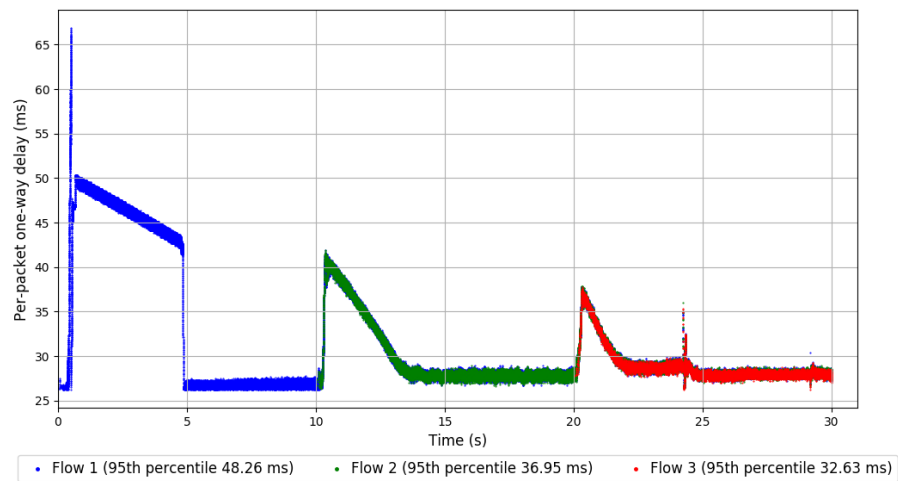
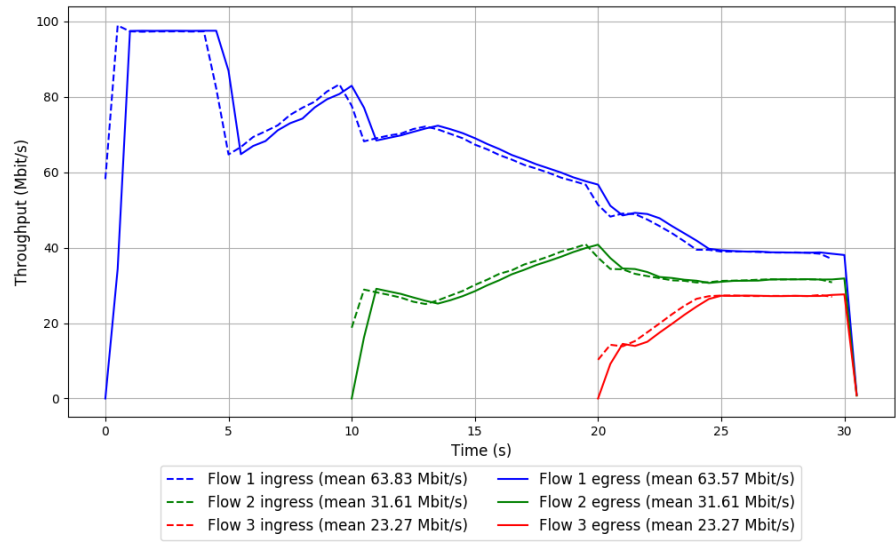


Run 5: Statistics of TCP Vegas

Start at: 2020-02-18 03:28:32  
End at: 2020-02-18 03:29:02  
Local clock offset: 6.059 ms  
Remote clock offset: -2.891 ms

# Below is generated by plot.py at 2020-02-18 03:54:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.36 Mbit/s  
95th percentile per-packet one-way delay: 47.534 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 63.57 Mbit/s  
95th percentile per-packet one-way delay: 48.262 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 31.61 Mbit/s  
95th percentile per-packet one-way delay: 36.951 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 23.27 Mbit/s  
95th percentile per-packet one-way delay: 32.626 ms  
Loss rate: 0.00%

# Run 5: Report of TCP Vegas — Data Link

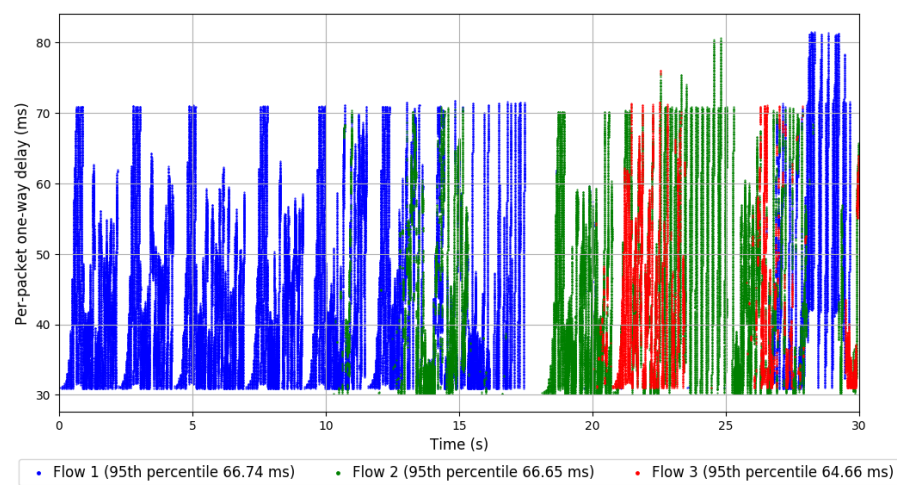
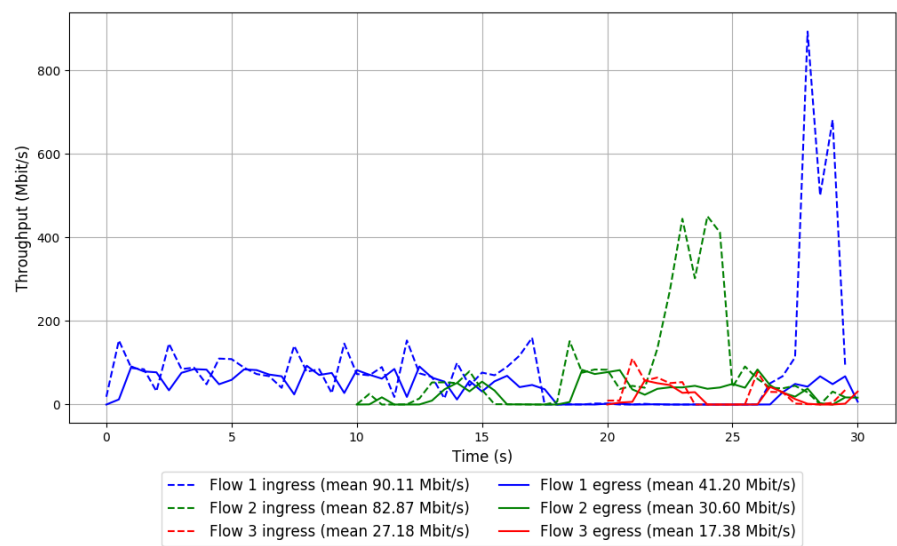


Run 1: Statistics of Verus

Start at: 2020-02-18 01:22:10  
End at: 2020-02-18 01:22:40  
Local clock offset: 5.092 ms  
Remote clock offset: -4.749 ms

# Below is generated by plot.py at 2020-02-18 03:54:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 66.62 Mbit/s  
95th percentile per-packet one-way delay: 66.536 ms  
Loss rate: 56.29%  
-- Flow 1:  
Average throughput: 41.20 Mbit/s  
95th percentile per-packet one-way delay: 66.741 ms  
Loss rate: 54.26%  
-- Flow 2:  
Average throughput: 30.60 Mbit/s  
95th percentile per-packet one-way delay: 66.647 ms  
Loss rate: 63.01%  
-- Flow 3:  
Average throughput: 17.38 Mbit/s  
95th percentile per-packet one-way delay: 64.657 ms  
Loss rate: 35.86%

Run 1: Report of Verus — Data Link

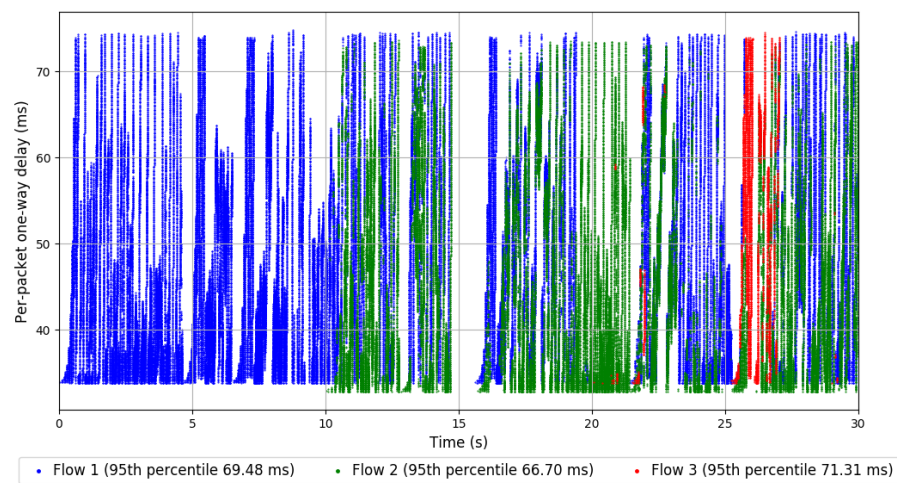
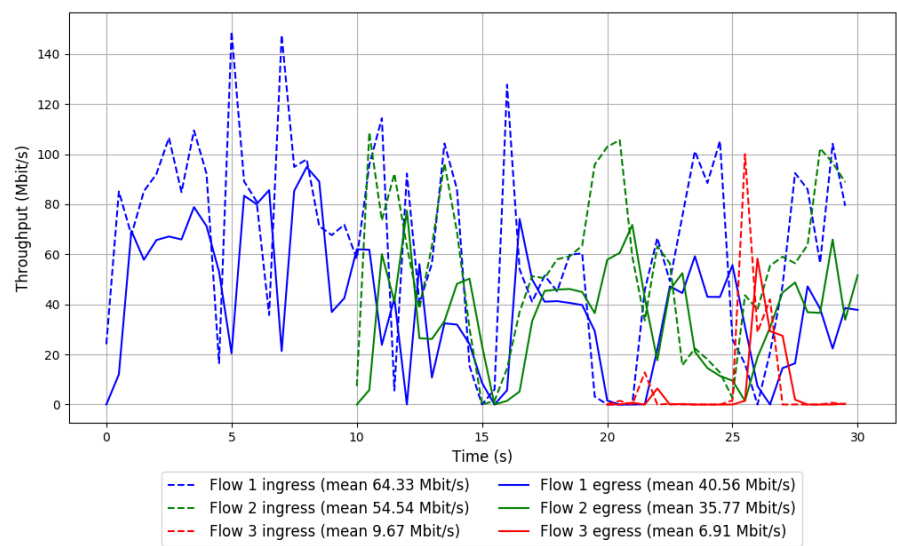


Run 2: Statistics of Verus

Start at: 2020-02-18 01:50:34  
End at: 2020-02-18 01:51:04  
Local clock offset: 0.262 ms  
Remote clock offset: -5.594 ms

# Below is generated by plot.py at 2020-02-18 03:54:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 66.43 Mbit/s  
95th percentile per-packet one-way delay: 68.805 ms  
Loss rate: 35.89%  
-- Flow 1:  
Average throughput: 40.56 Mbit/s  
95th percentile per-packet one-way delay: 69.484 ms  
Loss rate: 36.94%  
-- Flow 2:  
Average throughput: 35.77 Mbit/s  
95th percentile per-packet one-way delay: 66.698 ms  
Loss rate: 34.28%  
-- Flow 3:  
Average throughput: 6.91 Mbit/s  
95th percentile per-packet one-way delay: 71.308 ms  
Loss rate: 32.88%

Run 2: Report of Verus — Data Link

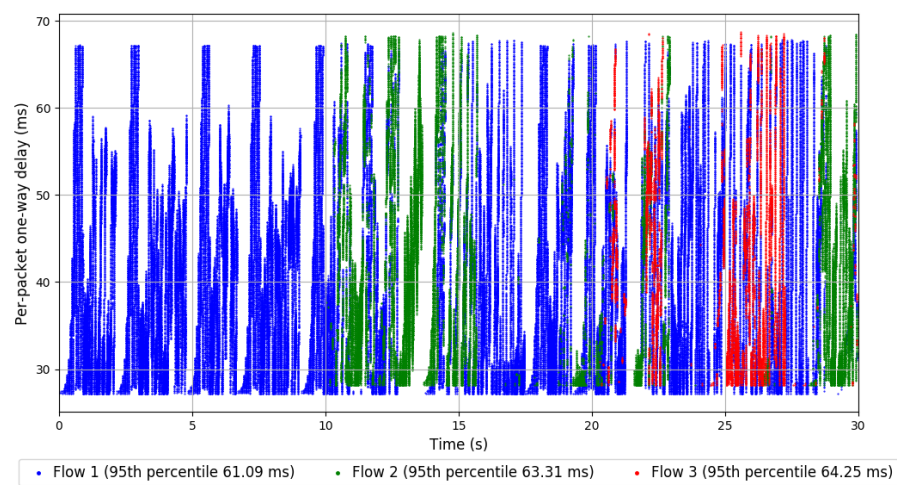
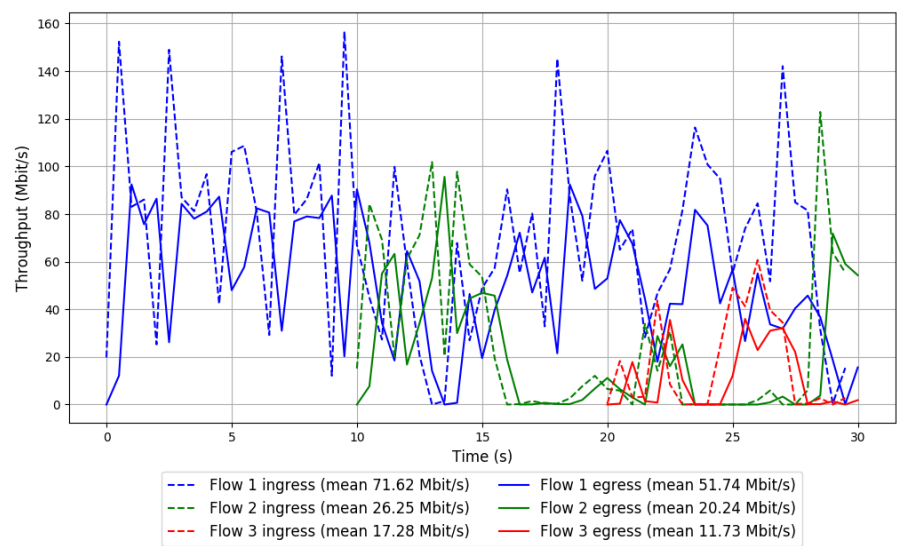


Run 3: Statistics of Verus

Start at: 2020-02-18 02:18:57  
End at: 2020-02-18 02:19:27  
Local clock offset: 6.035 ms  
Remote clock offset: -5.216 ms

# Below is generated by plot.py at 2020-02-18 03:55:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.98 Mbit/s  
95th percentile per-packet one-way delay: 61.804 ms  
Loss rate: 27.09%  
-- Flow 1:  
Average throughput: 51.74 Mbit/s  
95th percentile per-packet one-way delay: 61.086 ms  
Loss rate: 27.73%  
-- Flow 2:  
Average throughput: 20.24 Mbit/s  
95th percentile per-packet one-way delay: 63.308 ms  
Loss rate: 22.92%  
-- Flow 3:  
Average throughput: 11.73 Mbit/s  
95th percentile per-packet one-way delay: 64.249 ms  
Loss rate: 32.06%

Run 3: Report of Verus — Data Link



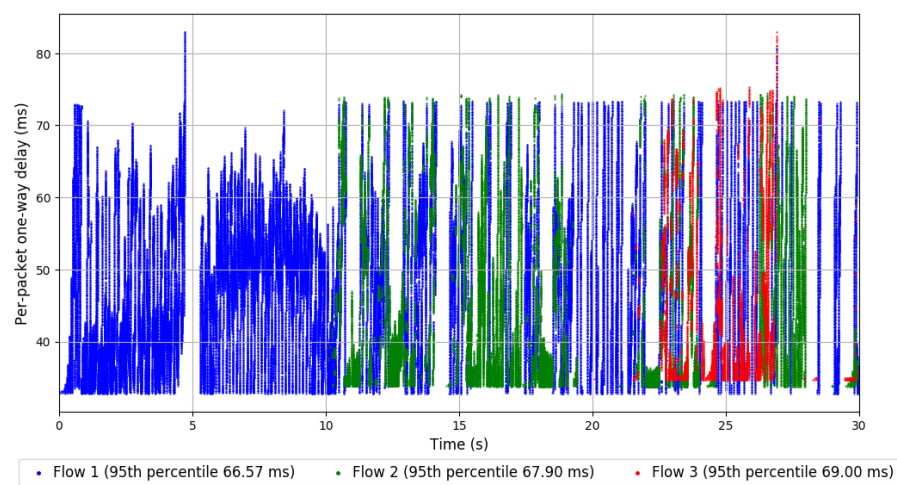
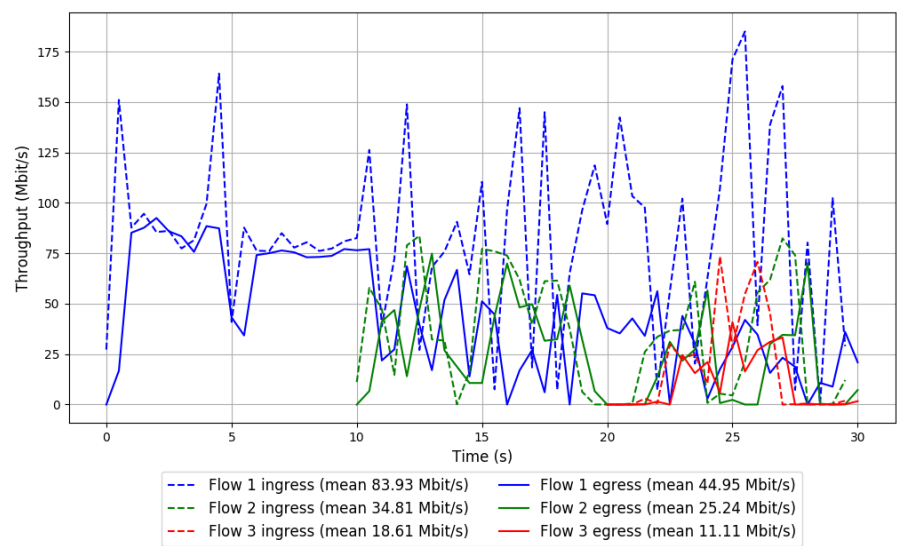


Run 4: Statistics of Verus

Start at: 2020-02-18 02:47:16  
End at: 2020-02-18 02:47:46  
Local clock offset: 1.702 ms  
Remote clock offset: -0.501 ms

# Below is generated by plot.py at 2020-02-18 03:55:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 65.36 Mbit/s  
95th percentile per-packet one-way delay: 67.099 ms  
Loss rate: 42.25%  
-- Flow 1:  
Average throughput: 44.95 Mbit/s  
95th percentile per-packet one-way delay: 66.572 ms  
Loss rate: 46.44%  
-- Flow 2:  
Average throughput: 25.24 Mbit/s  
95th percentile per-packet one-way delay: 67.904 ms  
Loss rate: 27.55%  
-- Flow 3:  
Average throughput: 11.11 Mbit/s  
95th percentile per-packet one-way delay: 69.001 ms  
Loss rate: 40.29%

Run 4: Report of Verus — Data Link

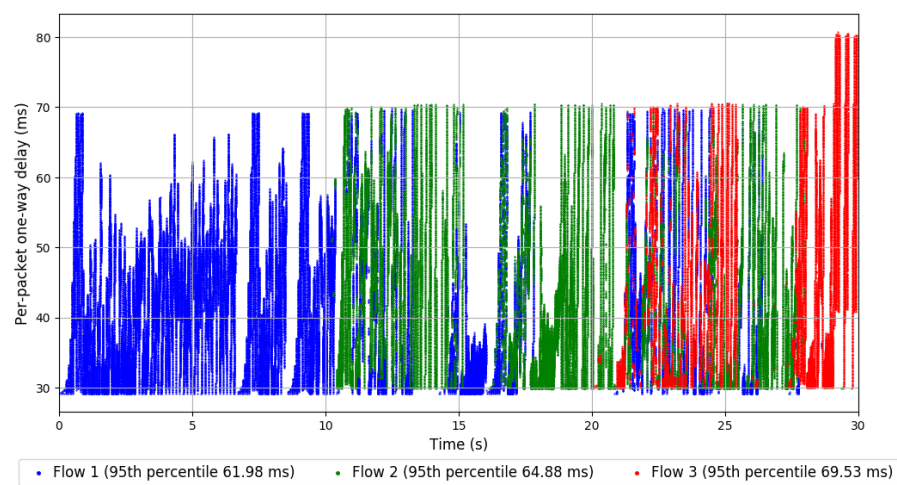
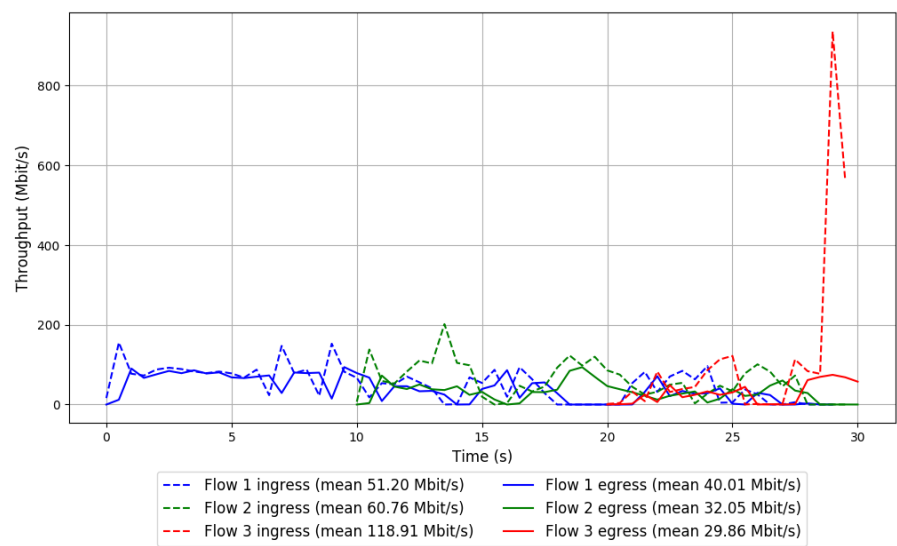


Run 5: Statistics of Verus

Start at: 2020-02-18 03:15:35  
End at: 2020-02-18 03:16:05  
Local clock offset: 4.784 ms  
Remote clock offset: -1.953 ms

# Below is generated by plot.py at 2020-02-18 03:55:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.15 Mbit/s  
95th percentile per-packet one-way delay: 64.640 ms  
Loss rate: 46.53%  
-- Flow 1:  
Average throughput: 40.01 Mbit/s  
95th percentile per-packet one-way delay: 61.976 ms  
Loss rate: 23.68%  
-- Flow 2:  
Average throughput: 32.05 Mbit/s  
95th percentile per-packet one-way delay: 64.875 ms  
Loss rate: 47.47%  
-- Flow 3:  
Average throughput: 29.86 Mbit/s  
95th percentile per-packet one-way delay: 69.526 ms  
Loss rate: 74.79%

Run 5: Report of Verus — Data Link

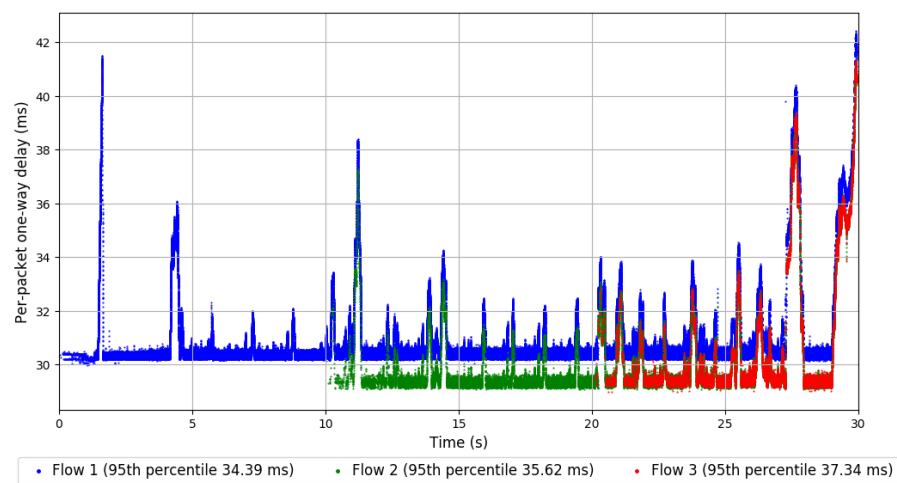
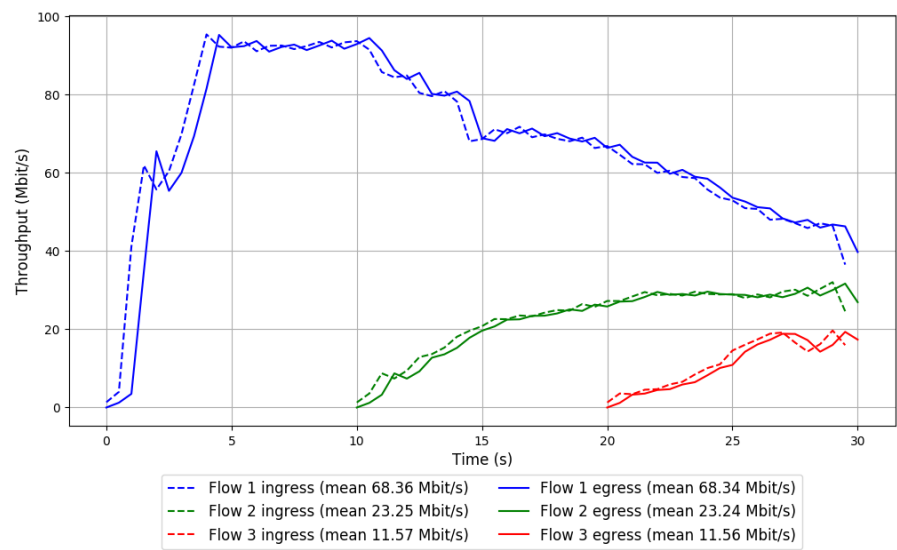


Run 1: Statistics of PCC-Vivace

Start at: 2020-02-18 01:30:20  
End at: 2020-02-18 01:30:50  
Local clock offset: 5.549 ms  
Remote clock offset: -4.294 ms

# Below is generated by plot.py at 2020-02-18 03:55:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.61 Mbit/s  
95th percentile per-packet one-way delay: 35.076 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 68.34 Mbit/s  
95th percentile per-packet one-way delay: 34.388 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 23.24 Mbit/s  
95th percentile per-packet one-way delay: 35.622 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 11.56 Mbit/s  
95th percentile per-packet one-way delay: 37.341 ms  
Loss rate: 0.01%

Run 1: Report of PCC-Vivace — Data Link

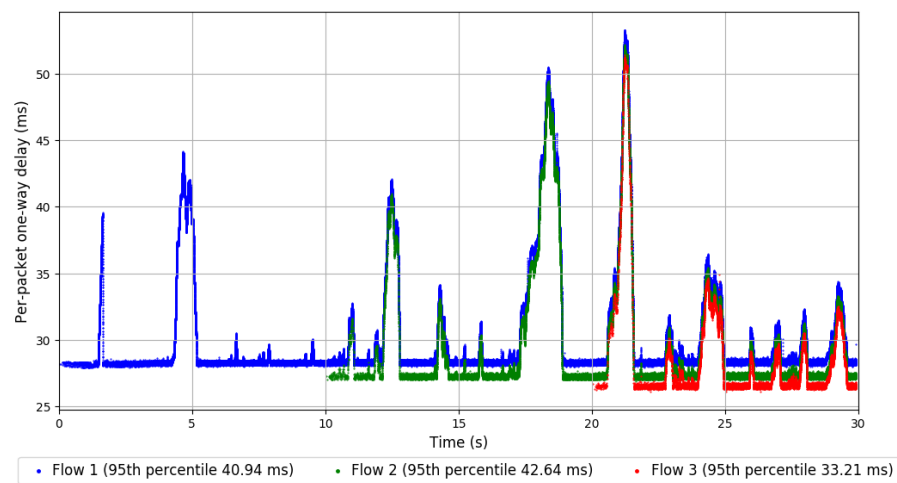
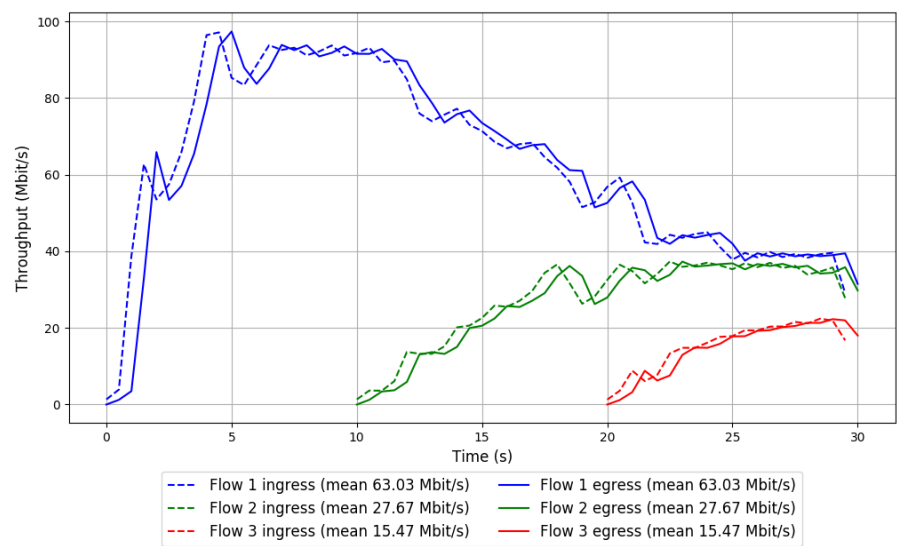


Run 2: Statistics of PCC-Vivace

Start at: 2020-02-18 01:58:45  
End at: 2020-02-18 01:59:15  
Local clock offset: 5.387 ms  
Remote clock offset: -7.119 ms

# Below is generated by plot.py at 2020-02-18 03:55:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.54 Mbit/s  
95th percentile per-packet one-way delay: 41.245 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 63.03 Mbit/s  
95th percentile per-packet one-way delay: 40.936 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 27.67 Mbit/s  
95th percentile per-packet one-way delay: 42.636 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 15.47 Mbit/s  
95th percentile per-packet one-way delay: 33.209 ms  
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



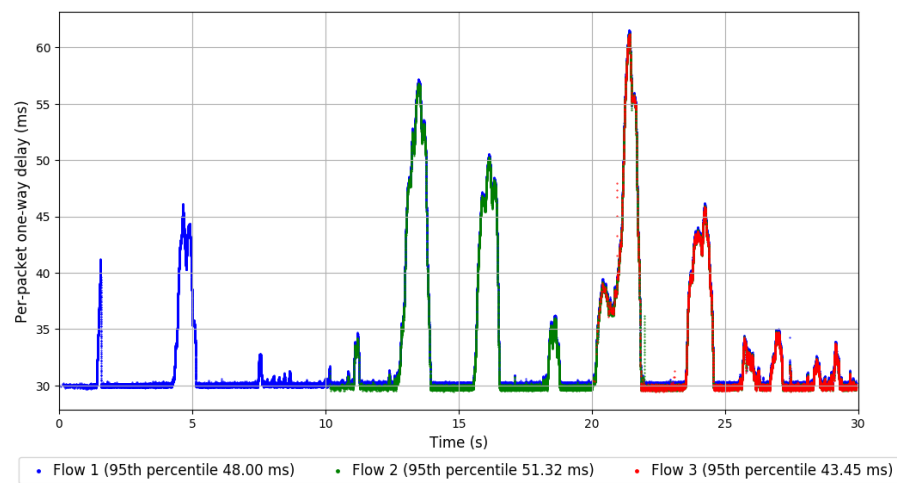
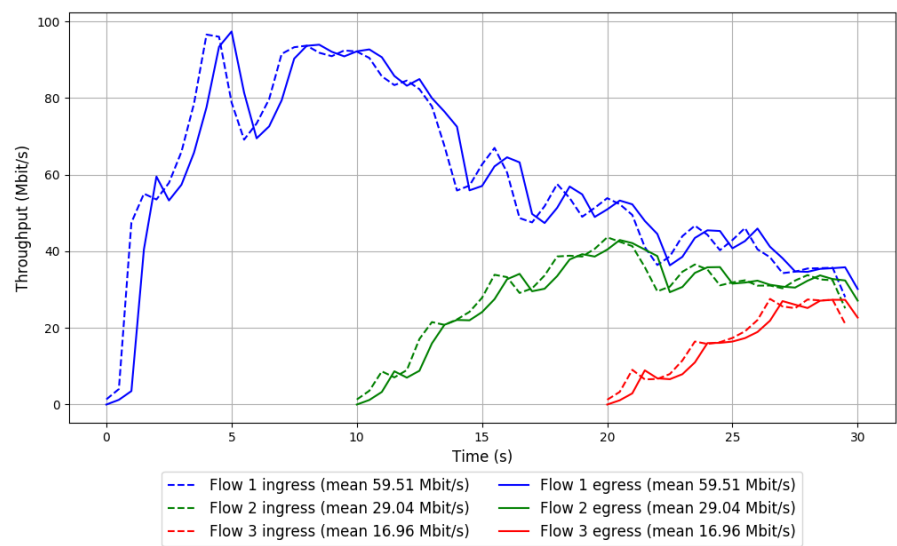


Run 3: Statistics of PCC-Vivace

Start at: 2020-02-18 02:27:07  
End at: 2020-02-18 02:27:37  
Local clock offset: 5.365 ms  
Remote clock offset: -3.968 ms

# Below is generated by plot.py at 2020-02-18 03:55:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.42 Mbit/s  
95th percentile per-packet one-way delay: 48.231 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 59.51 Mbit/s  
95th percentile per-packet one-way delay: 48.002 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 29.04 Mbit/s  
95th percentile per-packet one-way delay: 51.320 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 16.96 Mbit/s  
95th percentile per-packet one-way delay: 43.447 ms  
Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2020-02-18 02:55:26

End at: 2020-02-18 02:55:56

Local clock offset: 5.457 ms

Remote clock offset: 0.356 ms

# Below is generated by plot.py at 2020-02-18 03:55:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.26 Mbit/s

95th percentile per-packet one-way delay: 34.768 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.49 Mbit/s

95th percentile per-packet one-way delay: 34.992 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 28.82 Mbit/s

95th percentile per-packet one-way delay: 34.569 ms

Loss rate: 0.00%

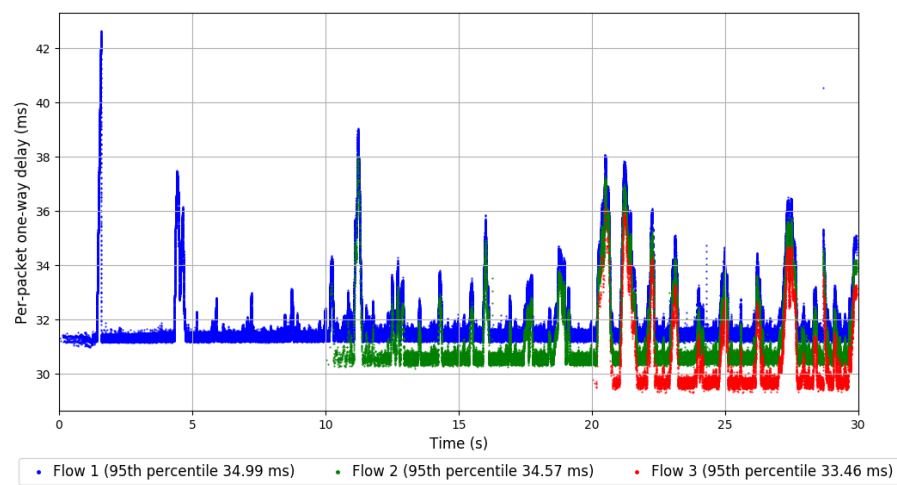
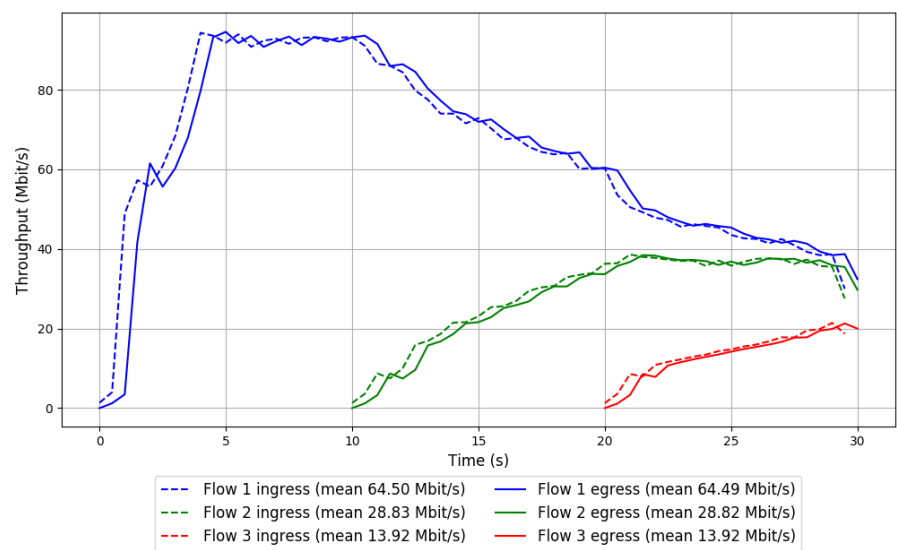
-- Flow 3:

Average throughput: 13.92 Mbit/s

95th percentile per-packet one-way delay: 33.460 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link

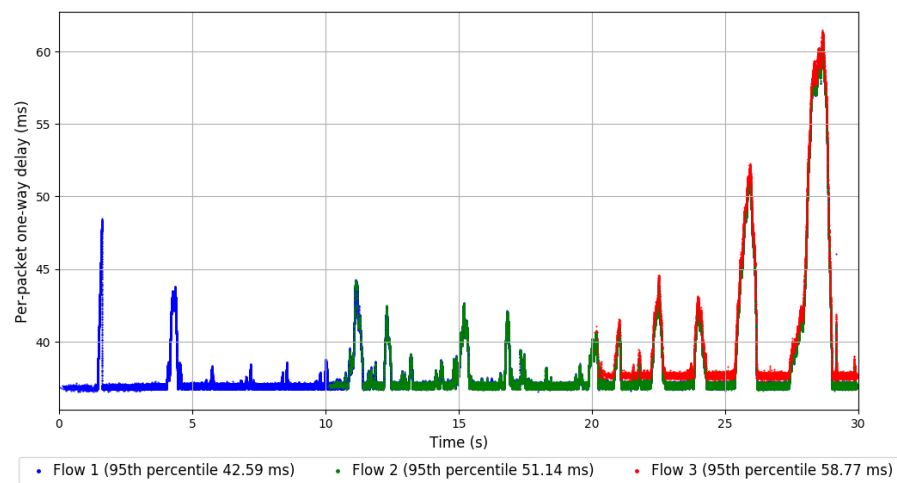
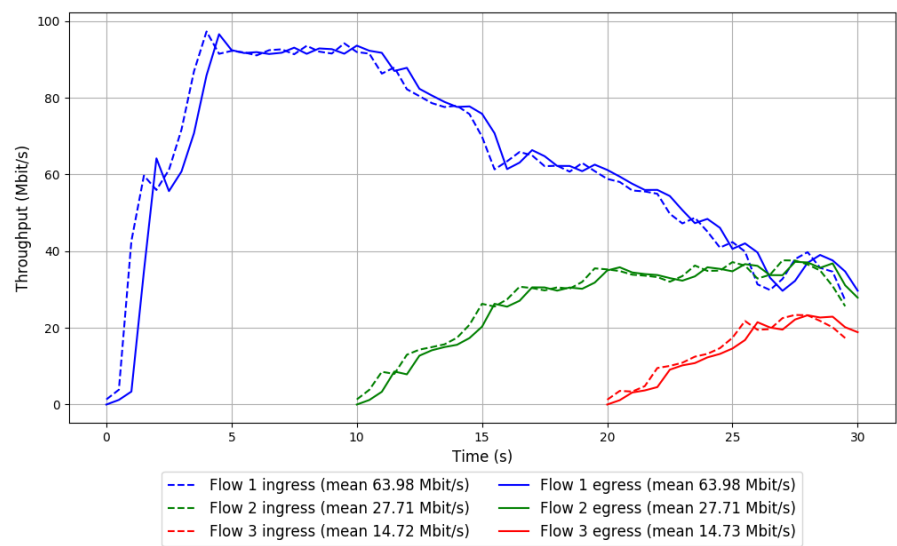


Run 5: Statistics of PCC-Vivace

Start at: 2020-02-18 03:23:45  
End at: 2020-02-18 03:24:15  
Local clock offset: -2.017 ms  
Remote clock offset: -0.303 ms

# Below is generated by plot.py at 2020-02-18 03:55:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.27 Mbit/s  
95th percentile per-packet one-way delay: 46.204 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 63.98 Mbit/s  
95th percentile per-packet one-way delay: 42.592 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 27.71 Mbit/s  
95th percentile per-packet one-way delay: 51.141 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 14.73 Mbit/s  
95th percentile per-packet one-way delay: 58.774 ms  
Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link

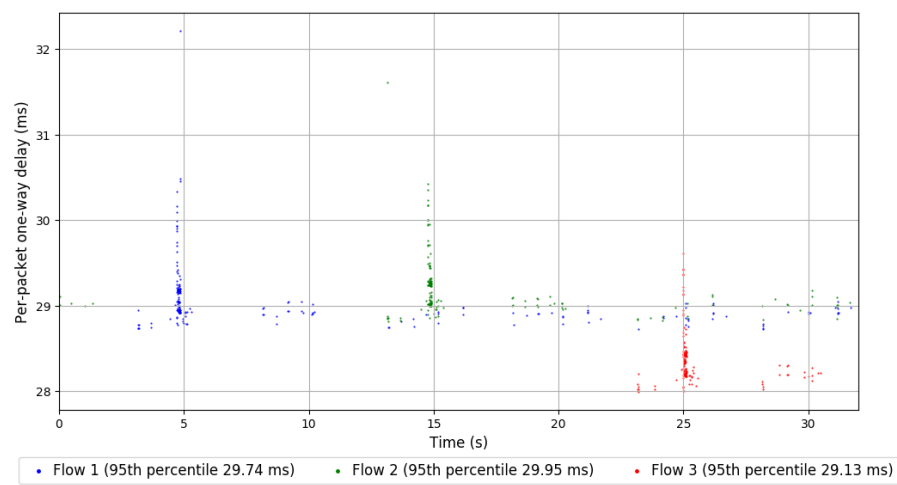
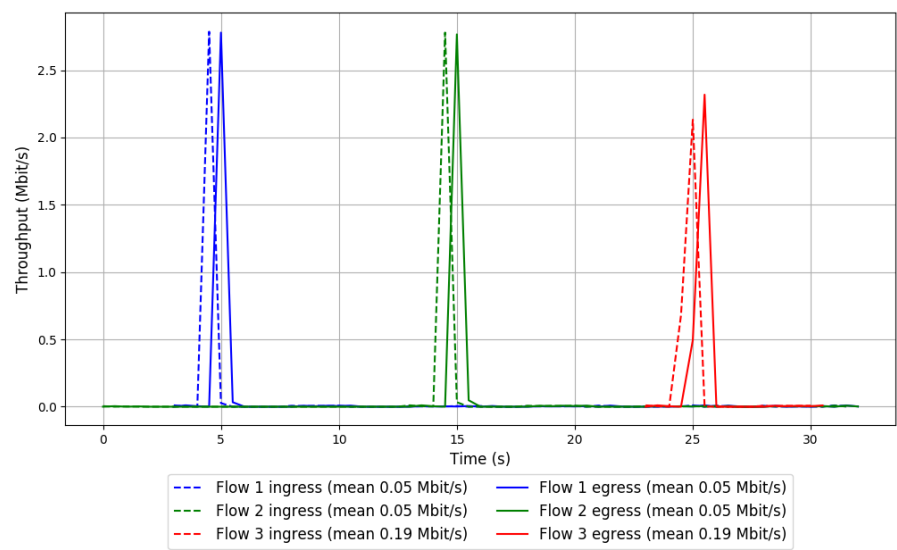


Run 1: Statistics of WebRTC media

Start at: 2020-02-18 01:23:22  
End at: 2020-02-18 01:23:52  
Local clock offset: 6.242 ms  
Remote clock offset: -5.698 ms

# Below is generated by plot.py at 2020-02-18 03:55:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 29.700 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 29.743 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 29.948 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.19 Mbit/s  
95th percentile per-packet one-way delay: 29.126 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



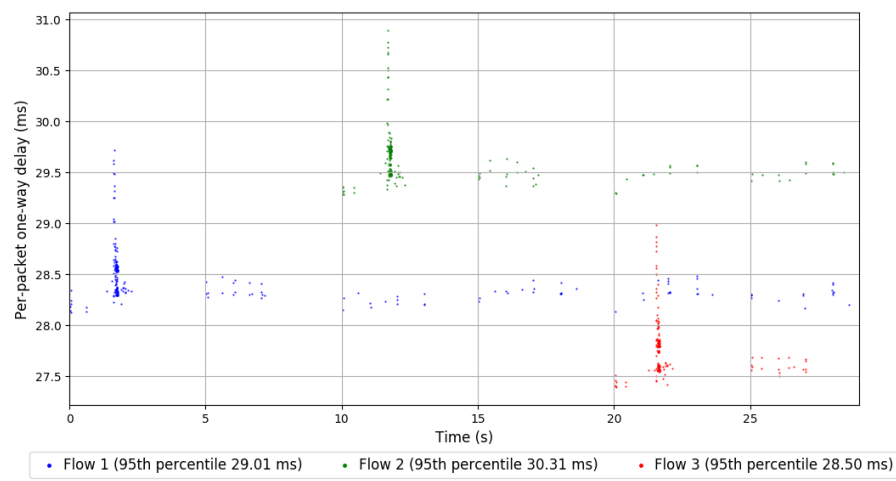
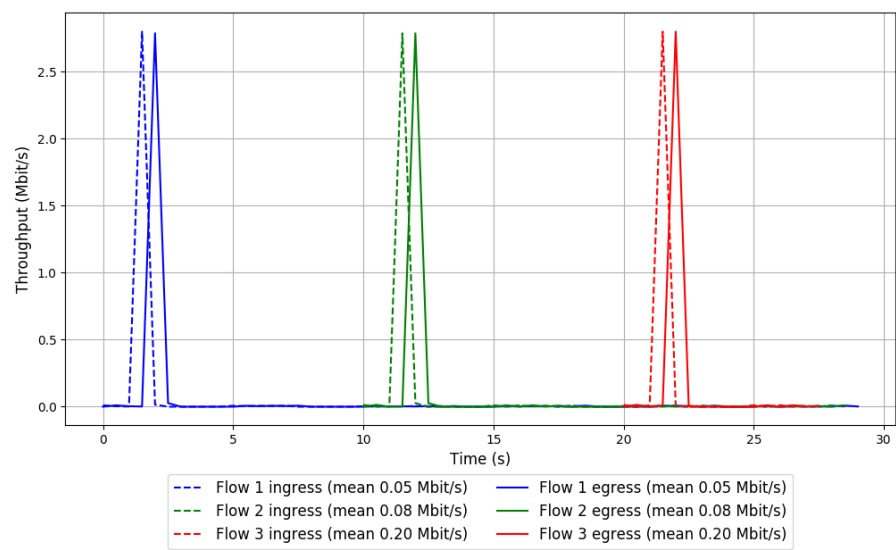


Run 2: Statistics of WebRTC media

Start at: 2020-02-18 01:51:46  
End at: 2020-02-18 01:52:16  
Local clock offset: 5.445 ms  
Remote clock offset: -5.753 ms

# Below is generated by plot.py at 2020-02-18 03:55:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 29.754 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 29.014 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.08 Mbit/s  
95th percentile per-packet one-way delay: 30.314 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.20 Mbit/s  
95th percentile per-packet one-way delay: 28.501 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

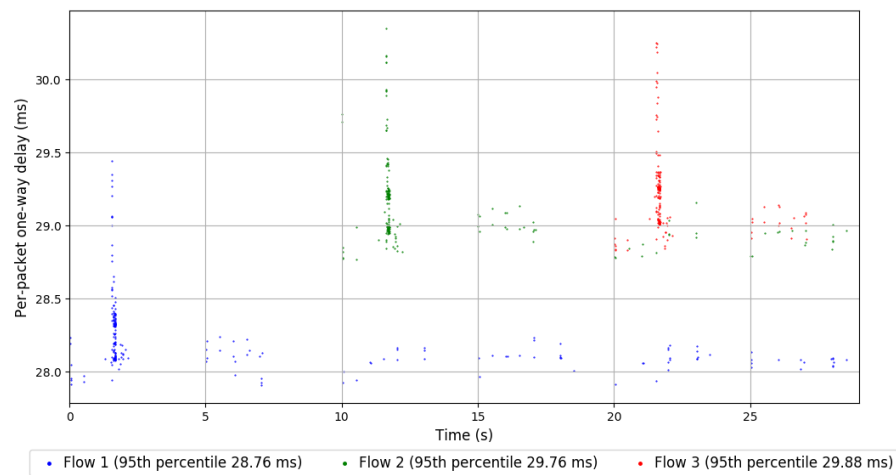
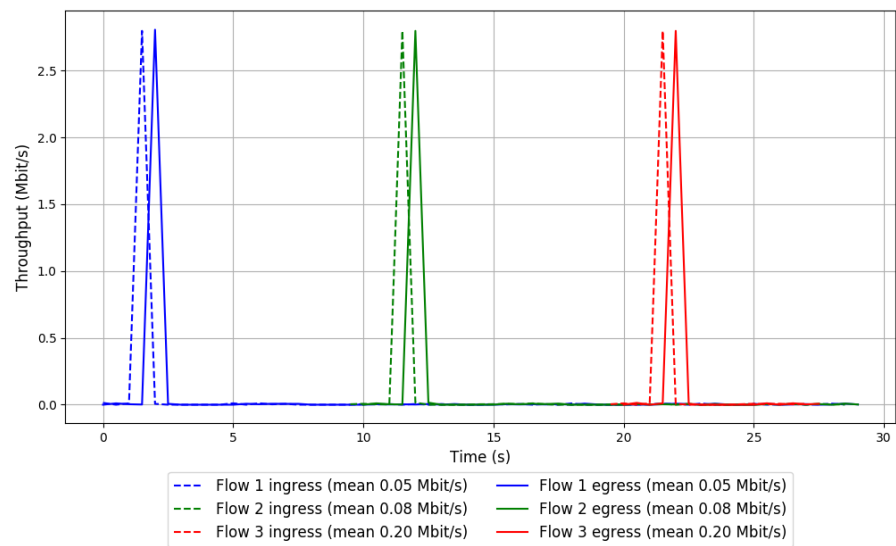


Run 3: Statistics of WebRTC media

Start at: 2020-02-18 02:20:09  
End at: 2020-02-18 02:20:39  
Local clock offset: 5.671 ms  
Remote clock offset: -4.657 ms

# Below is generated by plot.py at 2020-02-18 03:55:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 29.653 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 28.759 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.08 Mbit/s  
95th percentile per-packet one-way delay: 29.761 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.20 Mbit/s  
95th percentile per-packet one-way delay: 29.879 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2020-02-18 02:48:28

End at: 2020-02-18 02:48:58

Local clock offset: 5.704 ms

Remote clock offset: 1.2 ms

# Below is generated by plot.py at 2020-02-18 03:55:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 32.654 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 33.069 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 31.118 ms

Loss rate: 0.00%

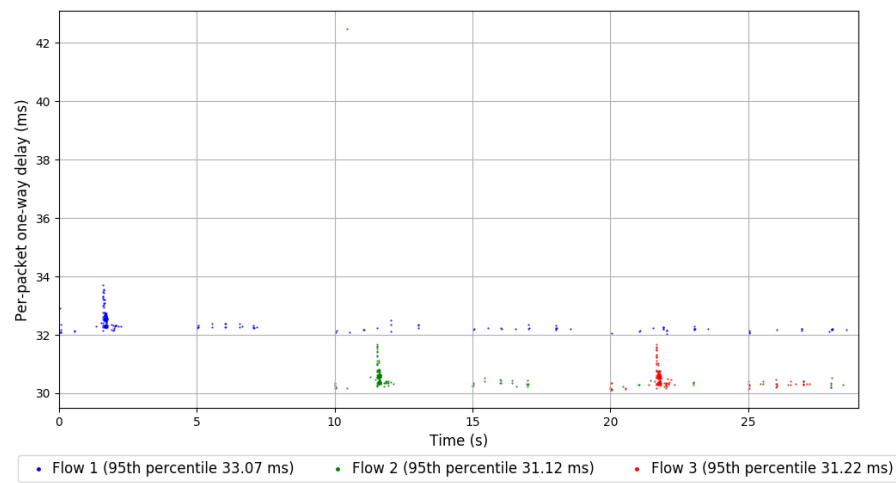
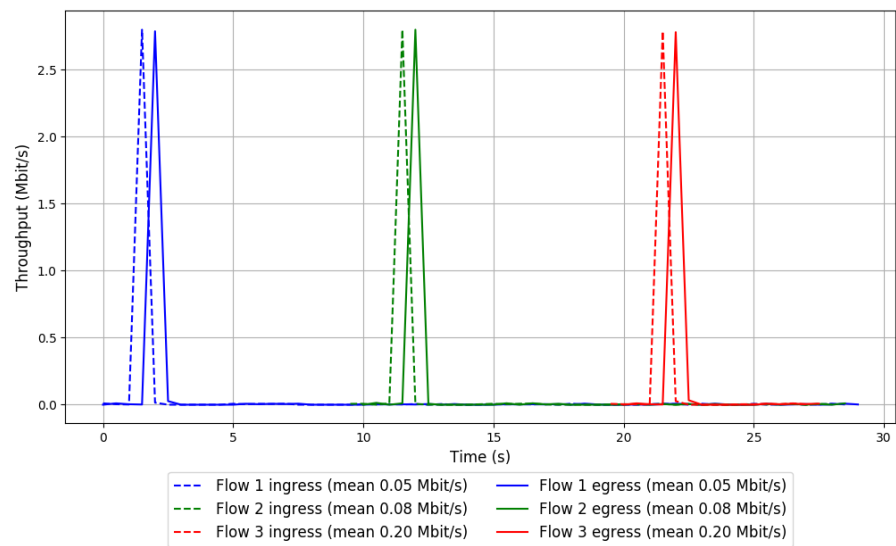
-- Flow 3:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 31.217 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2020-02-18 03:16:47  
End at: 2020-02-18 03:17:17  
Local clock offset: 5.2 ms  
Remote clock offset: -2.659 ms

# Below is generated by plot.py at 2020-02-18 03:55:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 29.297 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 28.726 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 29.650 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.20 Mbit/s  
95th percentile per-packet one-way delay: 28.848 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

