

## Pantheon Report

Generated at 2019-12-11 17:42:35 (UTC).

Data path: India on `em1` (*remote*) → AWS India 1 on `ens5` (*local*).

Repeated the test of 24 congestion control schemes 5 times.

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

NTP offsets were measured against `nets.org.sg` and have been applied to correct the timestamps in logs.

### System info:

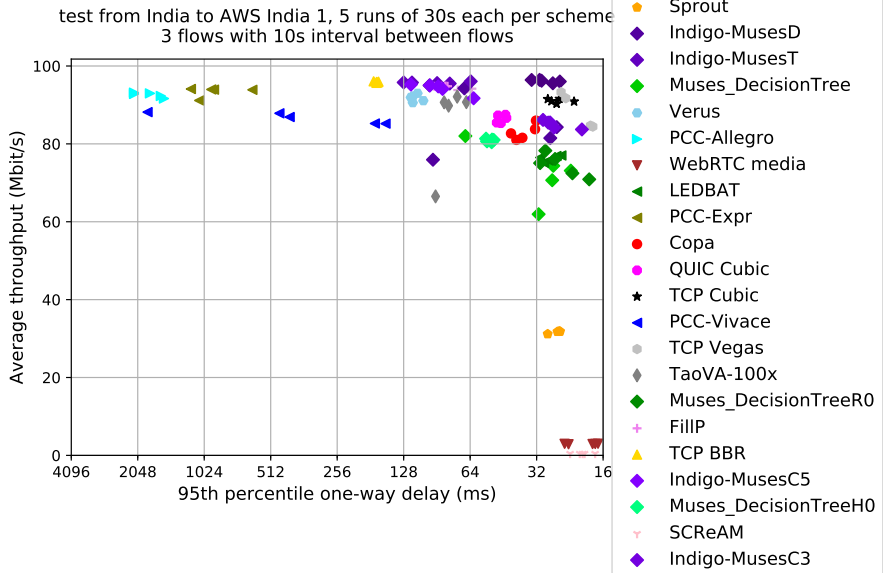
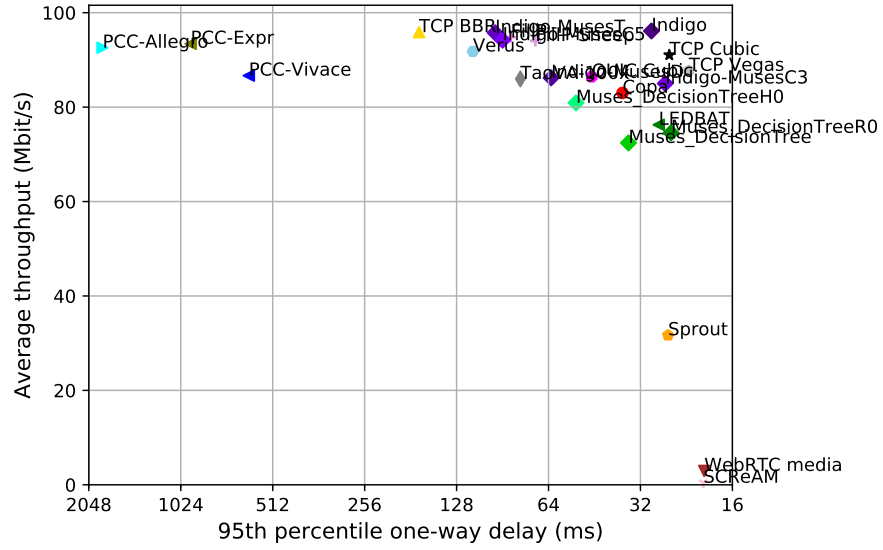
```
Linux 4.15.0-1054-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

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



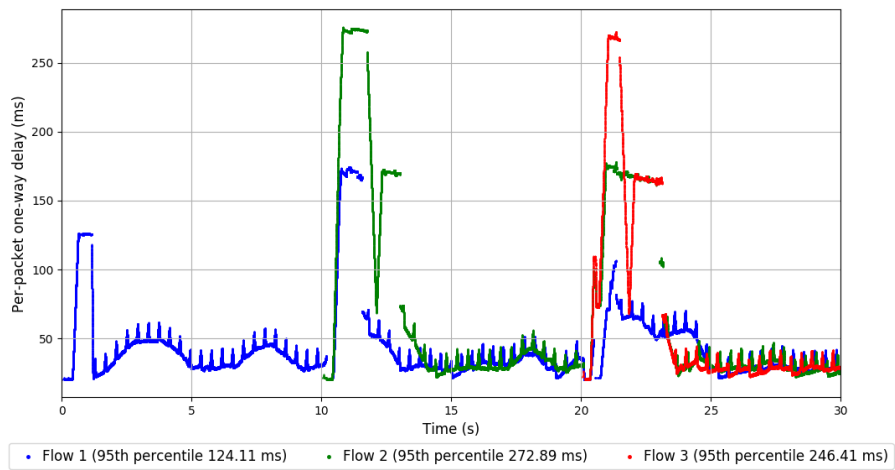
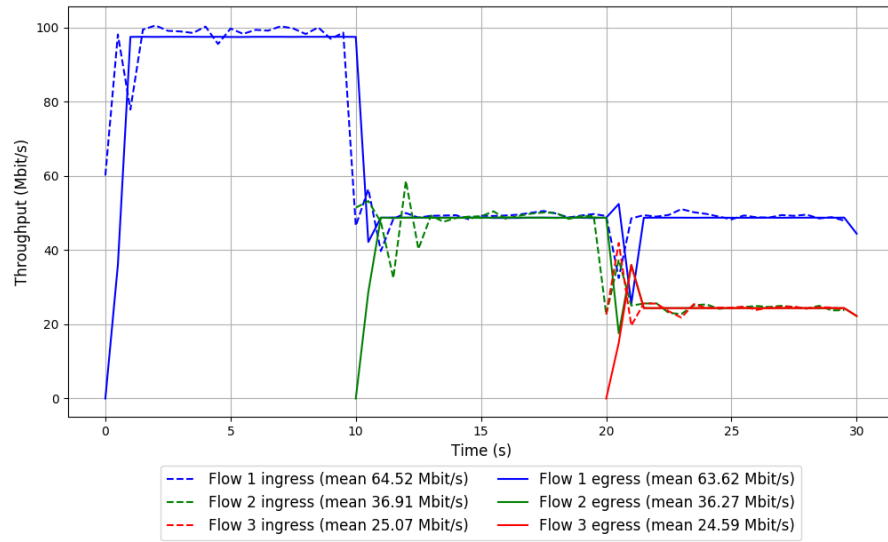
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	57.91	36.98	40.30	129.92	216.54	281.93	1.14	1.72	2.16
Copa	5	51.84	34.45	24.82	41.68	30.12	30.62	0.14	0.26	0.66
TCP Cubic	5	56.28	36.58	31.48	26.61	30.07	26.16	0.14	0.32	0.52
FillP	5	56.02	41.12	34.50	77.51	94.74	70.12	0.28	3.06	1.86
FillP-Sheep	5	59.06	36.87	31.38	61.13	85.37	81.79	0.18	0.44	1.05
Indigo	5	61.19	37.11	31.41	29.06	31.00	29.46	0.13	0.27	0.58
Indigo-MusesC3	5	57.26	32.00	28.53	26.61	26.13	26.67	0.07	0.18	0.77
Indigo-MusesC5	5	60.75	38.27	34.10	79.72	90.43	88.36	1.32	2.74	5.88
Indigo-MusesD	5	52.72	43.82	20.42	43.73	52.53	30.17	0.89	0.96	0.93
Indigo-MusesT	5	61.23	44.07	25.18	90.43	111.82	132.19	0.91	1.47	2.11
LEDBAT	5	44.84	34.39	25.74	26.98	29.66	28.27	0.13	0.22	0.66
Muses_DecisionTree	5	52.70	23.73	12.80	33.89	26.45	42.34	0.32	0.14	0.37
Muses_DecisionTreeH0	5	49.96	35.22	24.11	59.04	47.35	41.75	0.11	0.33	0.53
Muses_DecisionTreeR0	5	51.05	26.23	19.35	23.67	25.36	40.46	0.04	0.14	0.36
PCC-Allegro	5	59.47	36.75	26.46	1864.30	1791.70	313.76	15.19	14.10	3.38
PCC-Expr	5	58.42	41.56	22.37	537.39	949.91	242.70	55.27	28.02	5.69
QUIC Cubic	5	50.19	38.22	32.92	42.08	41.16	97.25	0.16	0.27	0.77
SCReAM	5	0.22	0.22	0.22	19.85	19.88	19.86	0.13	0.23	0.56
Sprout	5	16.02	15.82	15.63	25.50	26.24	26.60	0.18	0.24	0.56
TaoVA-100x	5	48.13	37.83	42.30	67.77	112.31	81.08	0.09	0.10	0.68
TCP Vegas	5	52.58	36.14	33.37	22.53	22.11	24.52	0.11	0.24	0.58
Verus	5	55.45	40.19	28.99	116.56	93.70	173.04	0.32	0.76	1.53
PCC-Vivace	5	58.04	31.33	23.69	617.03	318.40	83.31	1.35	1.32	1.07
WebRTC media	5	1.60	0.93	0.42	19.79	19.76	19.79	0.11	0.18	0.08

Run 1: Statistics of TCP BBR

Start at: 2019-12-11 15:04:20  
End at: 2019-12-11 15:04:50  
Local clock offset: 4.099 ms  
Remote clock offset: -8.454 ms

# Below is generated by plot.py at 2019-12-11 17:26:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.91 Mbit/s  
95th percentile per-packet one-way delay: 169.818 ms  
Loss rate: 1.75%  
-- Flow 1:  
Average throughput: 63.62 Mbit/s  
95th percentile per-packet one-way delay: 124.106 ms  
Loss rate: 1.57%  
-- Flow 2:  
Average throughput: 36.27 Mbit/s  
95th percentile per-packet one-way delay: 272.887 ms  
Loss rate: 2.00%  
-- Flow 3:  
Average throughput: 24.59 Mbit/s  
95th percentile per-packet one-way delay: 246.405 ms  
Loss rate: 2.43%

# Run 1: Report of TCP BBR — Data Link

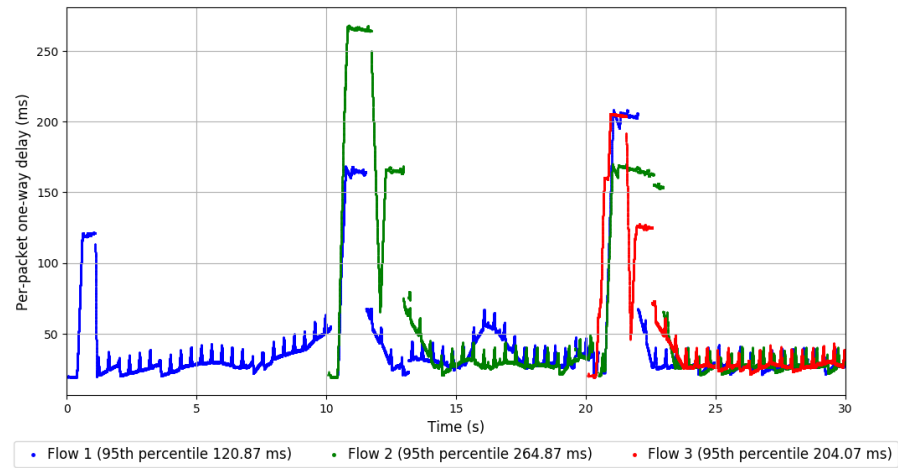
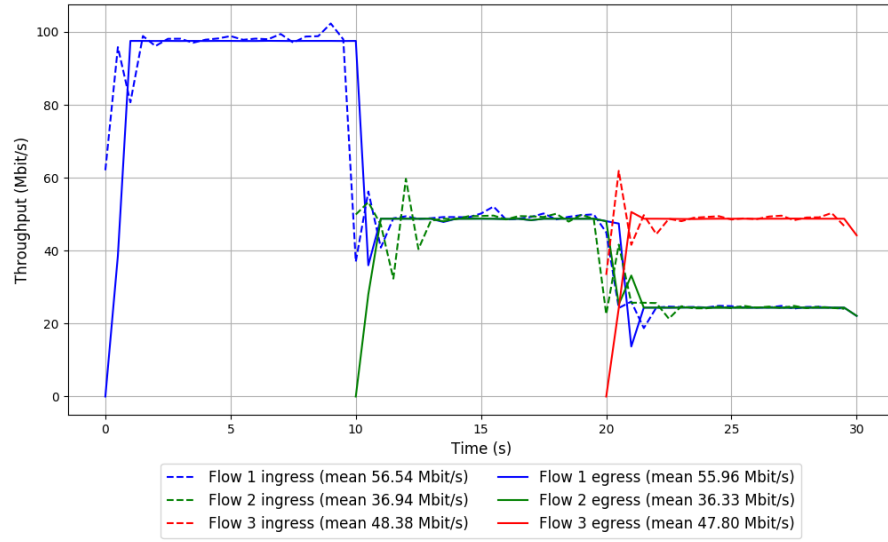


Run 2: Statistics of TCP BBR

Start at: 2019-12-11 15:35:16  
End at: 2019-12-11 15:35:46  
Local clock offset: 4.559 ms  
Remote clock offset: -7.169 ms

# Below is generated by plot.py at 2019-12-11 17:26:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.97 Mbit/s  
95th percentile per-packet one-way delay: 166.417 ms  
Loss rate: 1.46%  
-- Flow 1:  
Average throughput: 55.96 Mbit/s  
95th percentile per-packet one-way delay: 120.866 ms  
Loss rate: 1.21%  
-- Flow 2:  
Average throughput: 36.33 Mbit/s  
95th percentile per-packet one-way delay: 264.866 ms  
Loss rate: 1.89%  
-- Flow 3:  
Average throughput: 47.80 Mbit/s  
95th percentile per-packet one-way delay: 204.071 ms  
Loss rate: 1.72%

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

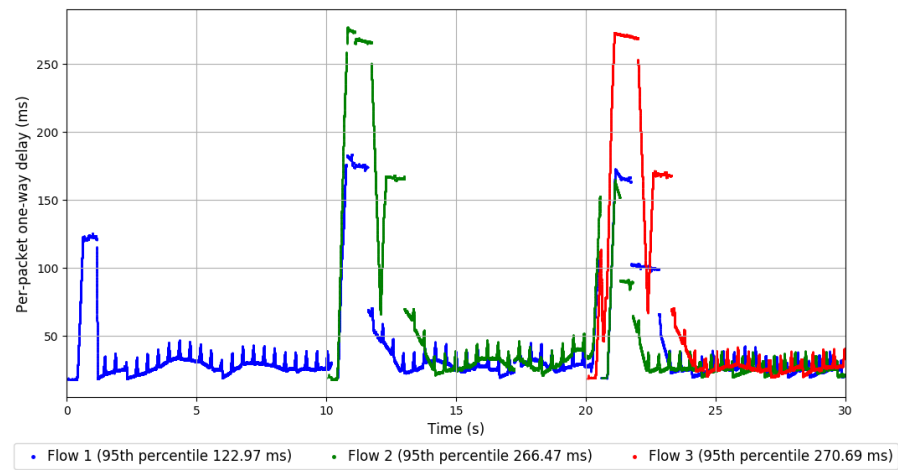
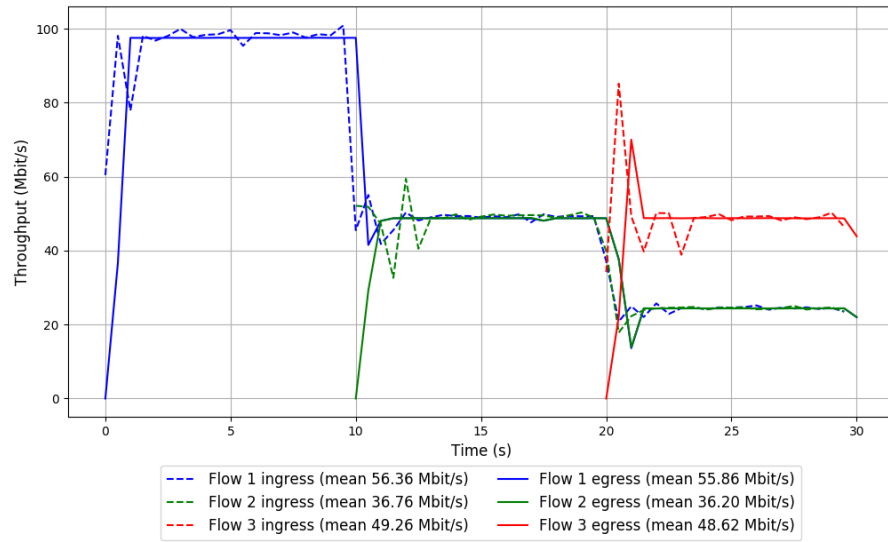


Run 3: Statistics of TCP BBR

Start at: 2019-12-11 16:05:15  
End at: 2019-12-11 16:05:45  
Local clock offset: 5.714 ms  
Remote clock offset: -5.881 ms

# Below is generated by plot.py at 2019-12-11 17:26:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.07 Mbit/s  
95th percentile per-packet one-way delay: 175.063 ms  
Loss rate: 1.37%  
-- Flow 1:  
Average throughput: 55.86 Mbit/s  
95th percentile per-packet one-way delay: 122.965 ms  
Loss rate: 1.07%  
-- Flow 2:  
Average throughput: 36.20 Mbit/s  
95th percentile per-packet one-way delay: 266.472 ms  
Loss rate: 1.81%  
-- Flow 3:  
Average throughput: 48.62 Mbit/s  
95th percentile per-packet one-way delay: 270.685 ms  
Loss rate: 1.79%

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

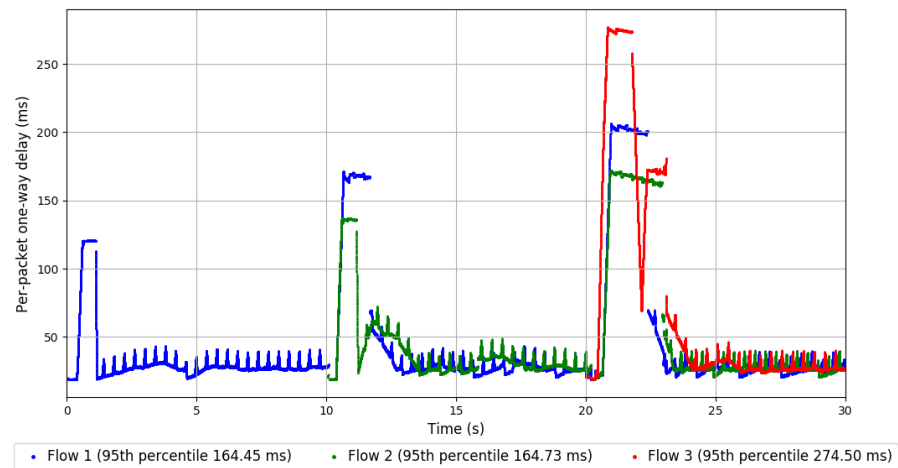
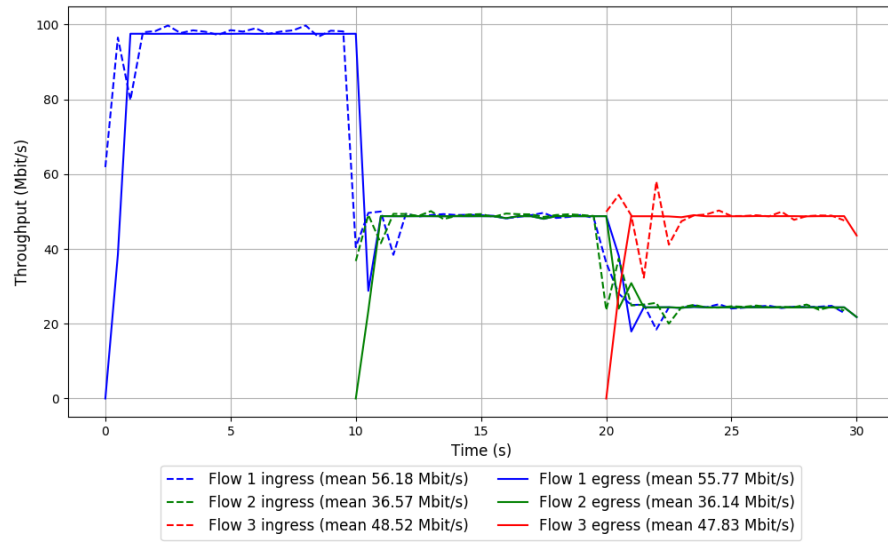


Run 4: Statistics of TCP BBR

Start at: 2019-12-11 16:36:17  
End at: 2019-12-11 16:36:47  
Local clock offset: 5.705 ms  
Remote clock offset: -4.916 ms

# Below is generated by plot.py at 2019-12-11 17:26:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.68 Mbit/s  
95th percentile per-packet one-way delay: 169.988 ms  
Loss rate: 1.20%  
-- Flow 1:  
Average throughput: 55.77 Mbit/s  
95th percentile per-packet one-way delay: 164.454 ms  
Loss rate: 0.90%  
-- Flow 2:  
Average throughput: 36.14 Mbit/s  
95th percentile per-packet one-way delay: 164.727 ms  
Loss rate: 1.43%  
-- Flow 3:  
Average throughput: 47.83 Mbit/s  
95th percentile per-packet one-way delay: 274.501 ms  
Loss rate: 1.94%

# Run 4: Report of TCP BBR — Data Link

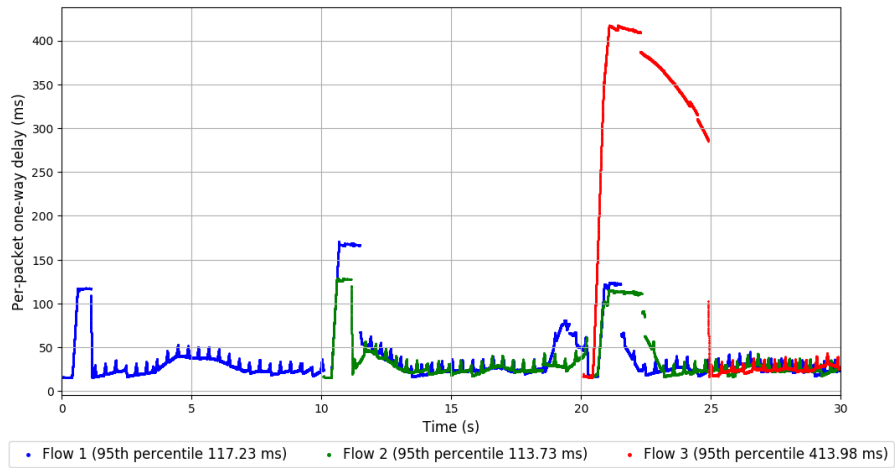
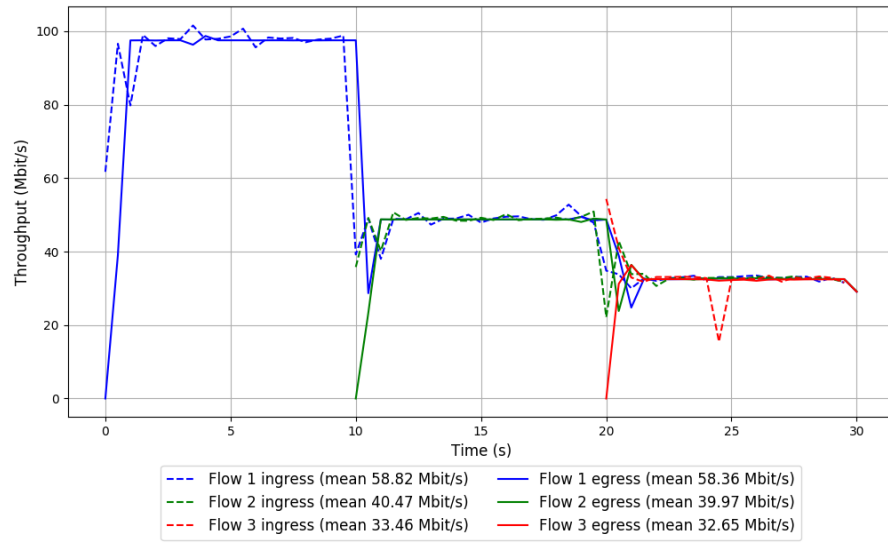


Run 5: Statistics of TCP BBR

Start at: 2019-12-11 17:07:16  
End at: 2019-12-11 17:07:46  
Local clock offset: -0.423 ms  
Remote clock offset: -4.933 ms

# Below is generated by plot.py at 2019-12-11 17:26:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.77 Mbit/s  
95th percentile per-packet one-way delay: 168.024 ms  
Loss rate: 1.32%  
-- Flow 1:  
Average throughput: 58.36 Mbit/s  
95th percentile per-packet one-way delay: 117.229 ms  
Loss rate: 0.95%  
-- Flow 2:  
Average throughput: 39.97 Mbit/s  
95th percentile per-packet one-way delay: 113.728 ms  
Loss rate: 1.48%  
-- Flow 3:  
Average throughput: 32.65 Mbit/s  
95th percentile per-packet one-way delay: 413.978 ms  
Loss rate: 2.92%

# Run 5: Report of TCP BBR — Data Link

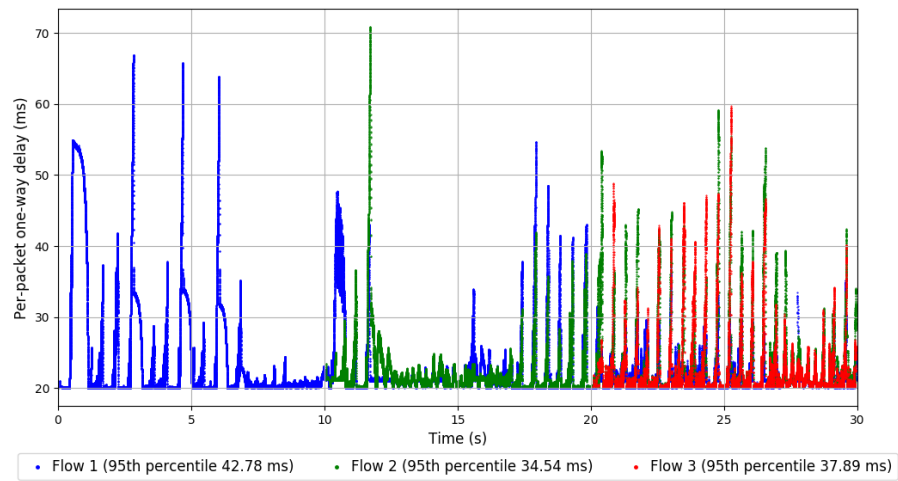
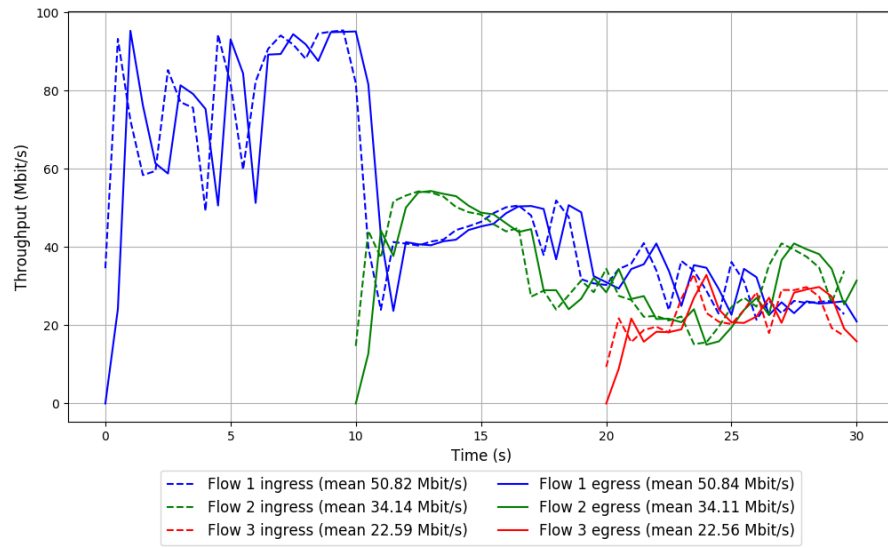


Run 1: Statistics of Copa

Start at: 2019-12-11 15:00:24  
End at: 2019-12-11 15:00:54  
Local clock offset: 3.723 ms  
Remote clock offset: -9.103 ms

# Below is generated by plot.py at 2019-12-11 17:27:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.02 Mbit/s  
95th percentile per-packet one-way delay: 39.519 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 50.84 Mbit/s  
95th percentile per-packet one-way delay: 42.777 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 34.11 Mbit/s  
95th percentile per-packet one-way delay: 34.540 ms  
Loss rate: 0.34%  
-- Flow 3:  
Average throughput: 22.56 Mbit/s  
95th percentile per-packet one-way delay: 37.889 ms  
Loss rate: 0.62%

# Run 1: Report of Copa — Data Link

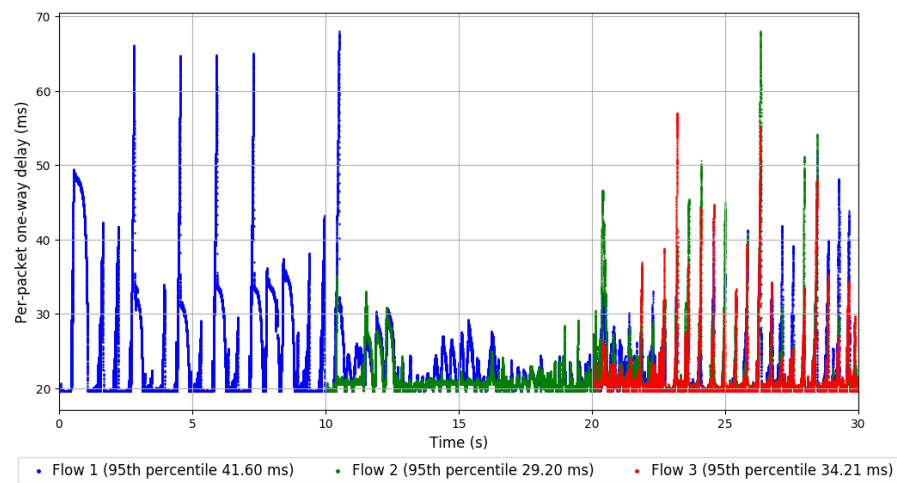
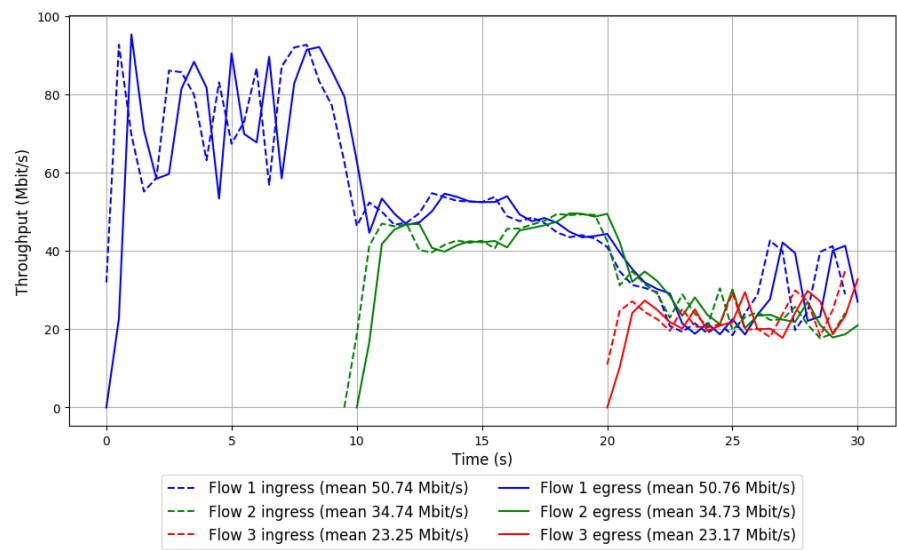


Run 2: Statistics of Copa

Start at: 2019-12-11 15:31:02  
End at: 2019-12-11 15:31:32  
Local clock offset: 4.093 ms  
Remote clock offset: -7.986 ms

# Below is generated by plot.py at 2019-12-11 17:27:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.56 Mbit/s  
95th percentile per-packet one-way delay: 37.129 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 50.76 Mbit/s  
95th percentile per-packet one-way delay: 41.604 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 34.73 Mbit/s  
95th percentile per-packet one-way delay: 29.200 ms  
Loss rate: 0.27%  
-- Flow 3:  
Average throughput: 23.17 Mbit/s  
95th percentile per-packet one-way delay: 34.209 ms  
Loss rate: 0.87%

Run 2: Report of Copa — Data Link

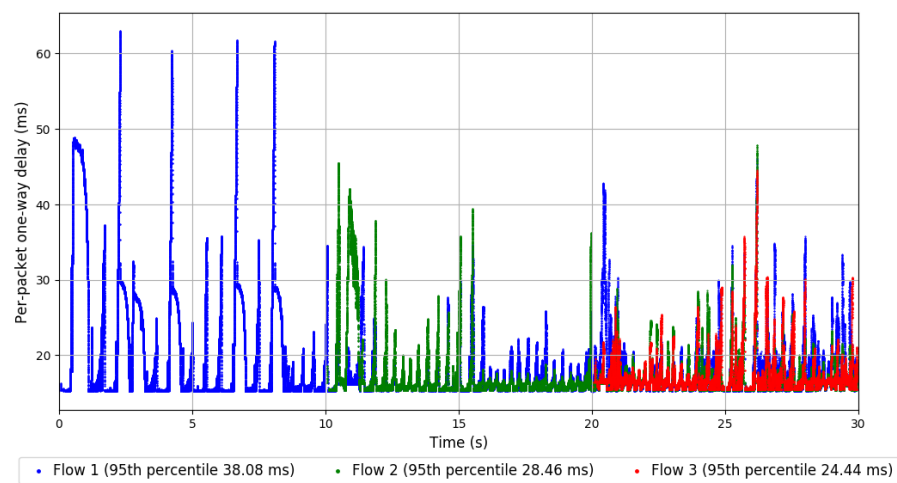
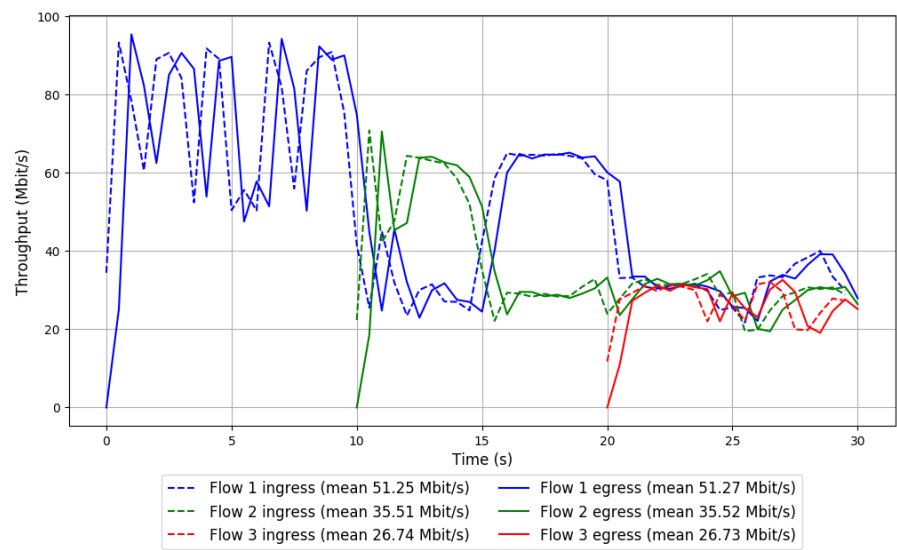


Run 3: Statistics of Copa

Start at: 2019-12-11 16:01:29  
End at: 2019-12-11 16:01:59  
Local clock offset: 1.26 ms  
Remote clock offset: -7.857 ms

# Below is generated by plot.py at 2019-12-11 17:27:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.77 Mbit/s  
95th percentile per-packet one-way delay: 32.535 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 51.27 Mbit/s  
95th percentile per-packet one-way delay: 38.076 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 35.52 Mbit/s  
95th percentile per-packet one-way delay: 28.456 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 26.73 Mbit/s  
95th percentile per-packet one-way delay: 24.437 ms  
Loss rate: 0.58%

Run 3: Report of Copa — Data Link

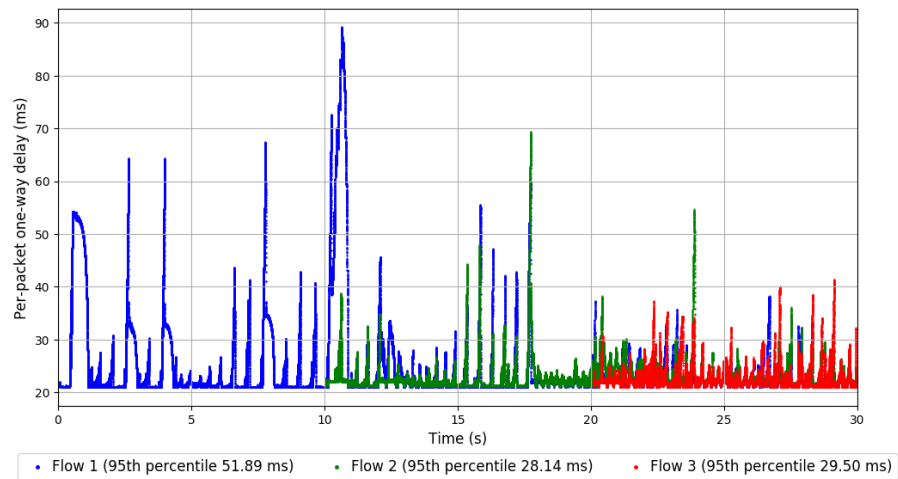
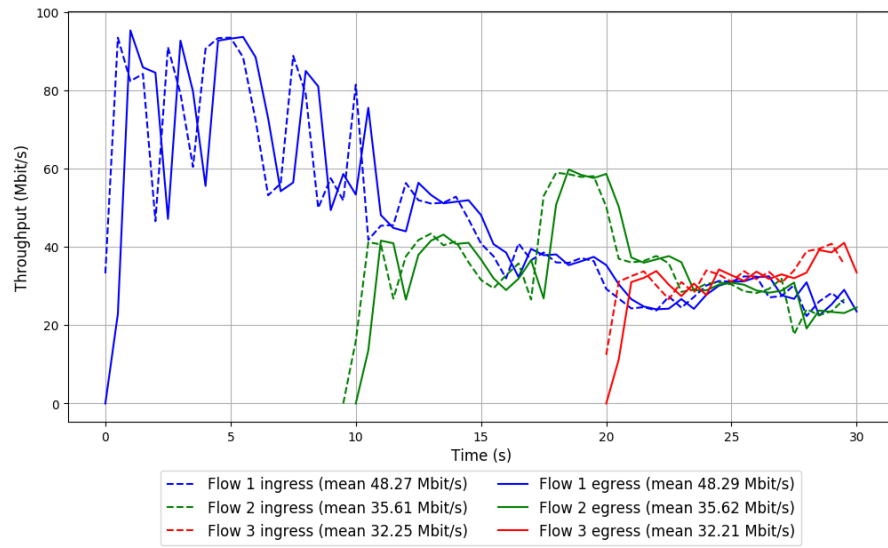


Run 4: Statistics of Copa

Start at: 2019-12-11 16:32:09  
End at: 2019-12-11 16:32:39  
Local clock offset: 5.798 ms  
Remote clock offset: -7.411 ms

# Below is generated by plot.py at 2019-12-11 17:28:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.69 Mbit/s  
95th percentile per-packet one-way delay: 41.801 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 48.29 Mbit/s  
95th percentile per-packet one-way delay: 51.893 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 35.62 Mbit/s  
95th percentile per-packet one-way delay: 28.138 ms  
Loss rate: 0.22%  
-- Flow 3:  
Average throughput: 32.21 Mbit/s  
95th percentile per-packet one-way delay: 29.501 ms  
Loss rate: 0.62%

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

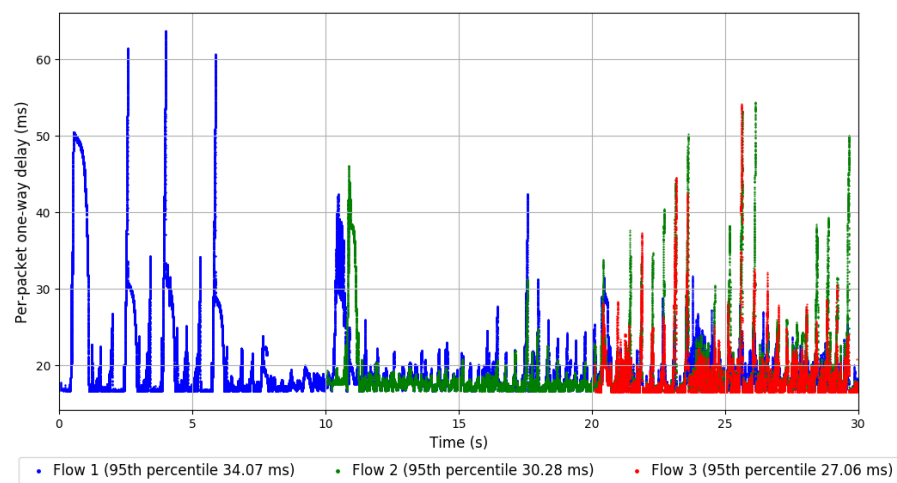
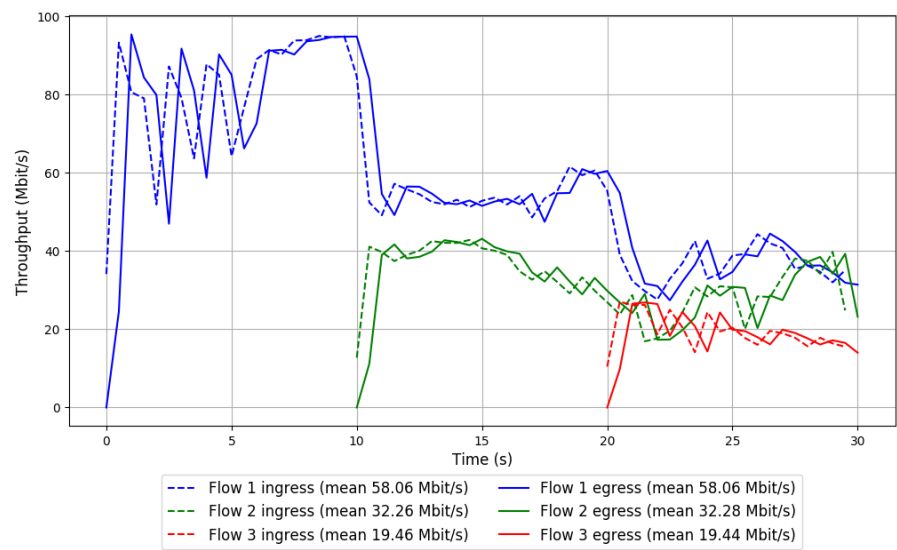


Run 5: Statistics of Copa

Start at: 2019-12-11 17:03:22  
End at: 2019-12-11 17:03:52  
Local clock offset: -0.309 ms  
Remote clock offset: -5.756 ms

# Below is generated by plot.py at 2019-12-11 17:28:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.98 Mbit/s  
95th percentile per-packet one-way delay: 32.215 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 58.06 Mbit/s  
95th percentile per-packet one-way delay: 34.068 ms  
Loss rate: 0.17%  
-- Flow 2:  
Average throughput: 32.28 Mbit/s  
95th percentile per-packet one-way delay: 30.283 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 19.44 Mbit/s  
95th percentile per-packet one-way delay: 27.061 ms  
Loss rate: 0.61%

Run 5: Report of Copa — Data Link

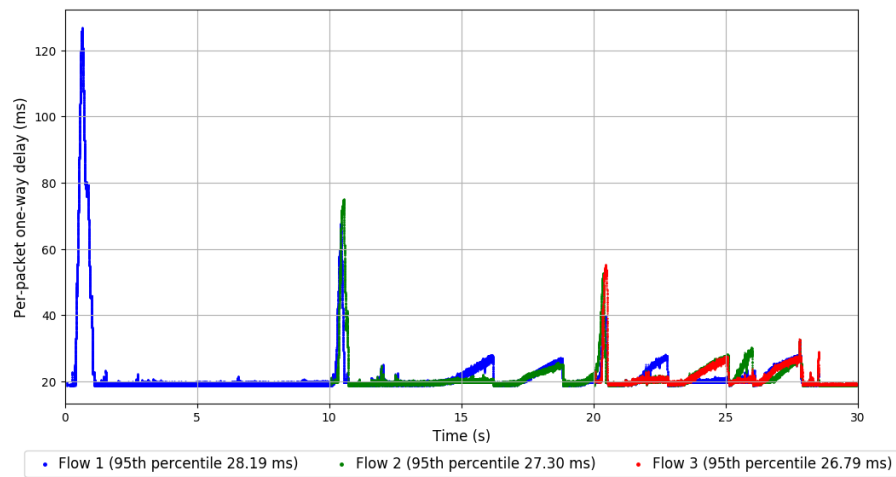
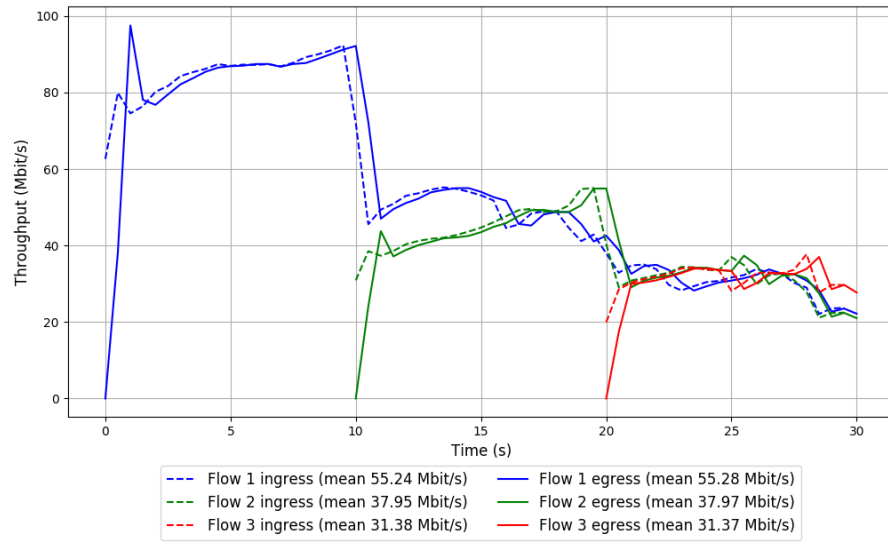


Run 1: Statistics of TCP Cubic

Start at: 2019-12-11 15:15:38  
End at: 2019-12-11 15:16:08  
Local clock offset: 2.348 ms  
Remote clock offset: -9.099 ms

# Below is generated by plot.py at 2019-12-11 17:28:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.95 Mbit/s  
95th percentile per-packet one-way delay: 27.406 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 55.28 Mbit/s  
95th percentile per-packet one-way delay: 28.187 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 37.97 Mbit/s  
95th percentile per-packet one-way delay: 27.297 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 31.37 Mbit/s  
95th percentile per-packet one-way delay: 26.786 ms  
Loss rate: 0.55%

# Run 1: Report of TCP Cubic — Data Link

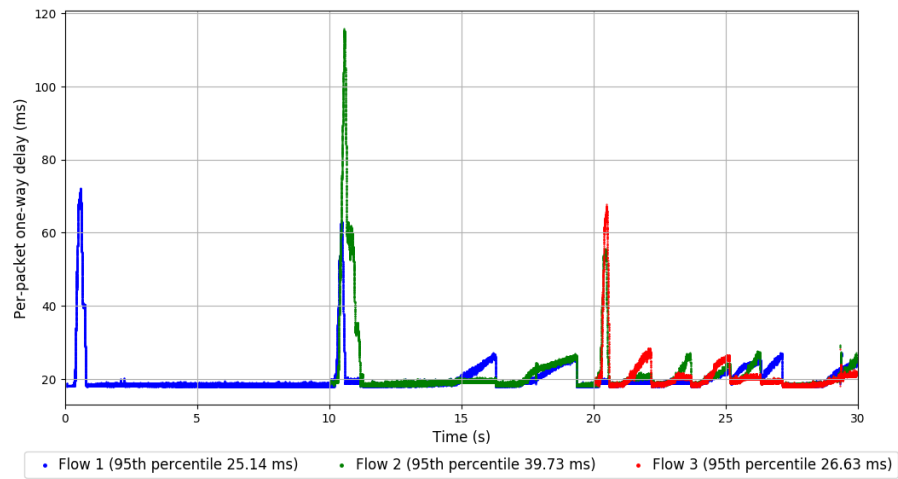
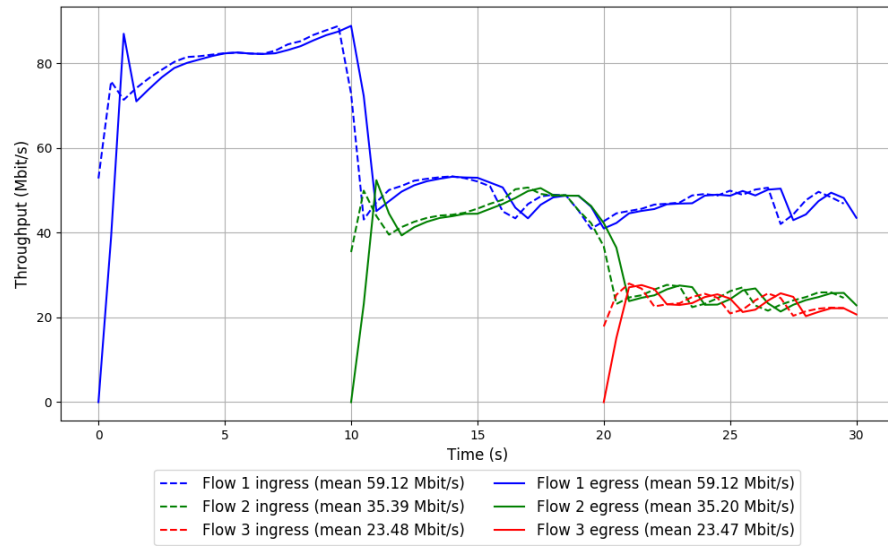


Run 2: Statistics of TCP Cubic

Start at: 2019-12-11 15:46:33  
End at: 2019-12-11 15:47:03  
Local clock offset: 1.165 ms  
Remote clock offset: -10.444 ms

# Below is generated by plot.py at 2019-12-11 17:28:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.31 Mbit/s  
95th percentile per-packet one-way delay: 25.983 ms  
Loss rate: 0.36%  
-- Flow 1:  
Average throughput: 59.12 Mbit/s  
95th percentile per-packet one-way delay: 25.139 ms  
Loss rate: 0.16%  
-- Flow 2:  
Average throughput: 35.20 Mbit/s  
95th percentile per-packet one-way delay: 39.726 ms  
Loss rate: 0.78%  
-- Flow 3:  
Average throughput: 23.47 Mbit/s  
95th percentile per-packet one-way delay: 26.634 ms  
Loss rate: 0.56%

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

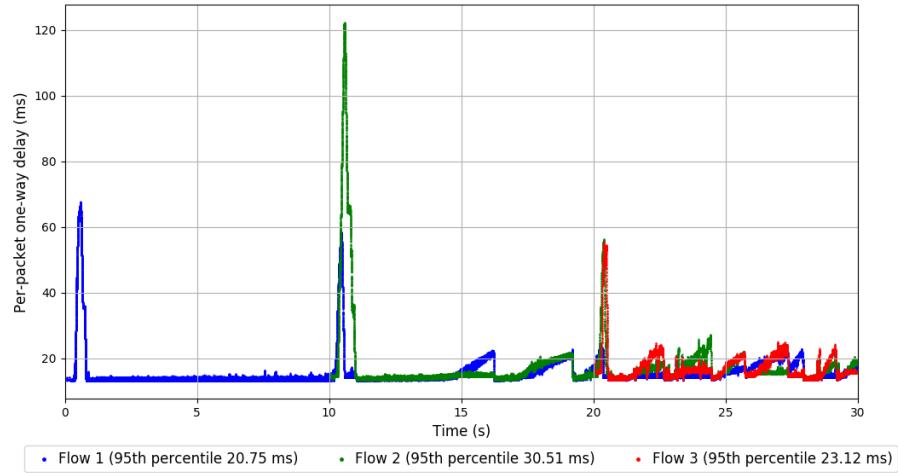
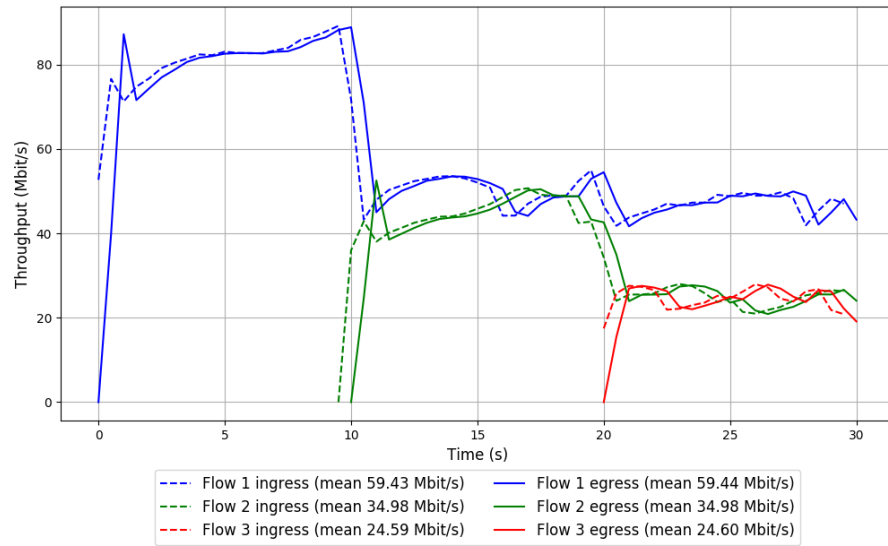


Run 3: Statistics of TCP Cubic

Start at: 2019-12-11 16:16:50  
End at: 2019-12-11 16:17:20  
Local clock offset: 1.332 ms  
Remote clock offset: -5.034 ms

# Below is generated by plot.py at 2019-12-11 17:28:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.88 Mbit/s  
95th percentile per-packet one-way delay: 21.655 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 59.44 Mbit/s  
95th percentile per-packet one-way delay: 20.755 ms  
Loss rate: 0.16%  
-- Flow 2:  
Average throughput: 34.98 Mbit/s  
95th percentile per-packet one-way delay: 30.510 ms  
Loss rate: 0.25%  
-- Flow 3:  
Average throughput: 24.60 Mbit/s  
95th percentile per-packet one-way delay: 23.118 ms  
Loss rate: 0.50%

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

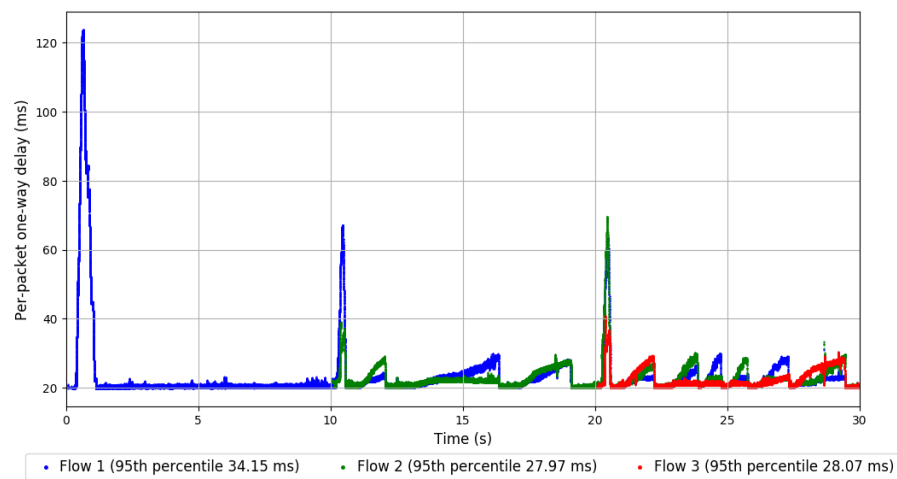
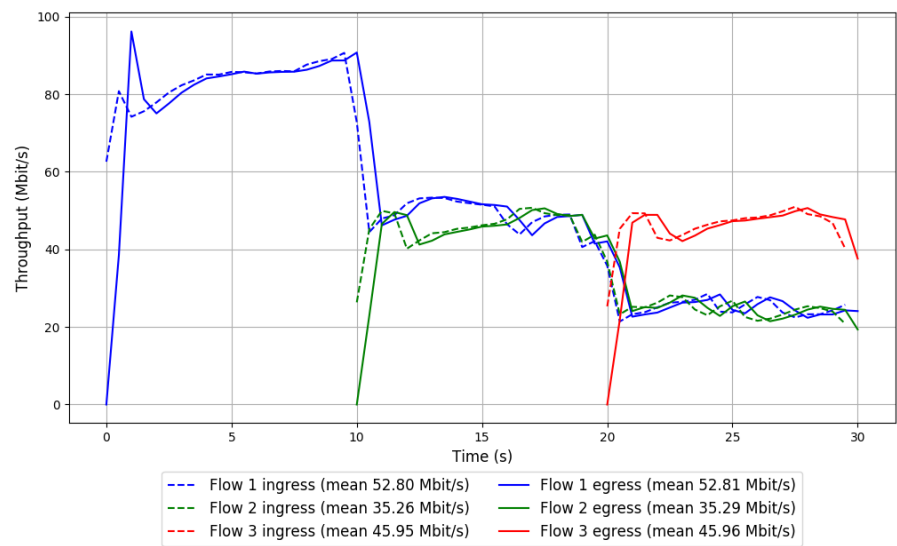


Run 4: Statistics of TCP Cubic

Start at: 2019-12-11 16:48:03  
End at: 2019-12-11 16:48:33  
Local clock offset: 5.099 ms  
Remote clock offset: -4.968 ms

# Below is generated by plot.py at 2019-12-11 17:28:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.51 Mbit/s  
95th percentile per-packet one-way delay: 28.475 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 52.81 Mbit/s  
95th percentile per-packet one-way delay: 34.148 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 35.29 Mbit/s  
95th percentile per-packet one-way delay: 27.972 ms  
Loss rate: 0.18%  
-- Flow 3:  
Average throughput: 45.96 Mbit/s  
95th percentile per-packet one-way delay: 28.072 ms  
Loss rate: 0.48%

Run 4: Report of TCP Cubic — Data Link

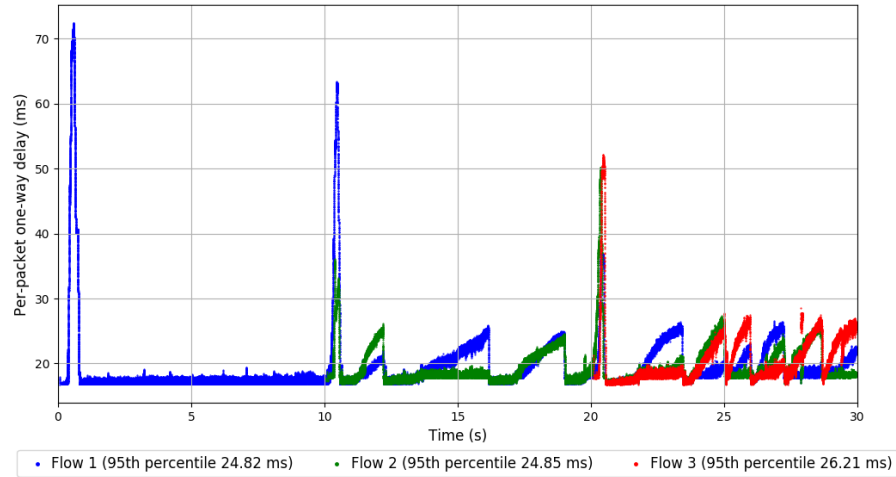
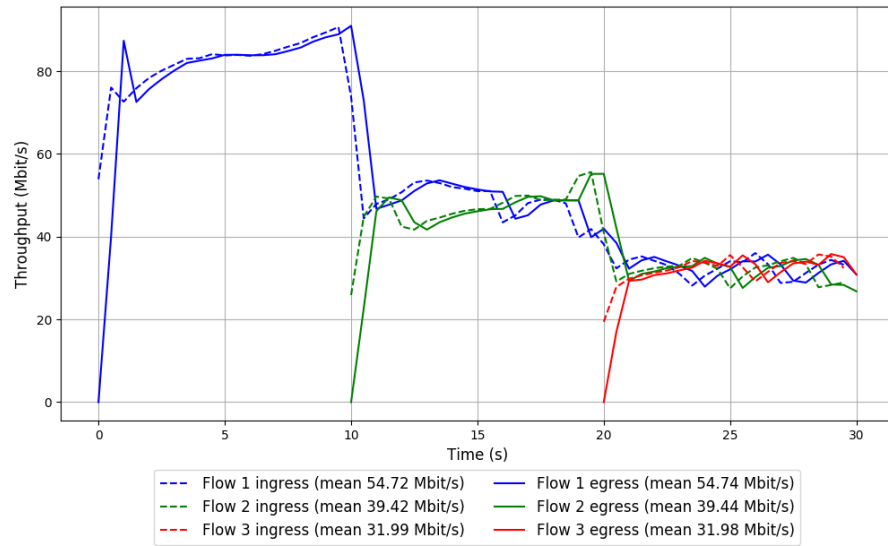


Run 5: Statistics of TCP Cubic

Start at: 2019-12-11 17:18:45  
End at: 2019-12-11 17:19:15  
Local clock offset: -0.006 ms  
Remote clock offset: -5.969 ms

# Below is generated by plot.py at 2019-12-11 17:28:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.57 Mbit/s  
95th percentile per-packet one-way delay: 25.202 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 54.74 Mbit/s  
95th percentile per-packet one-way delay: 24.818 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 39.44 Mbit/s  
95th percentile per-packet one-way delay: 24.847 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 31.98 Mbit/s  
95th percentile per-packet one-way delay: 26.207 ms  
Loss rate: 0.53%

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

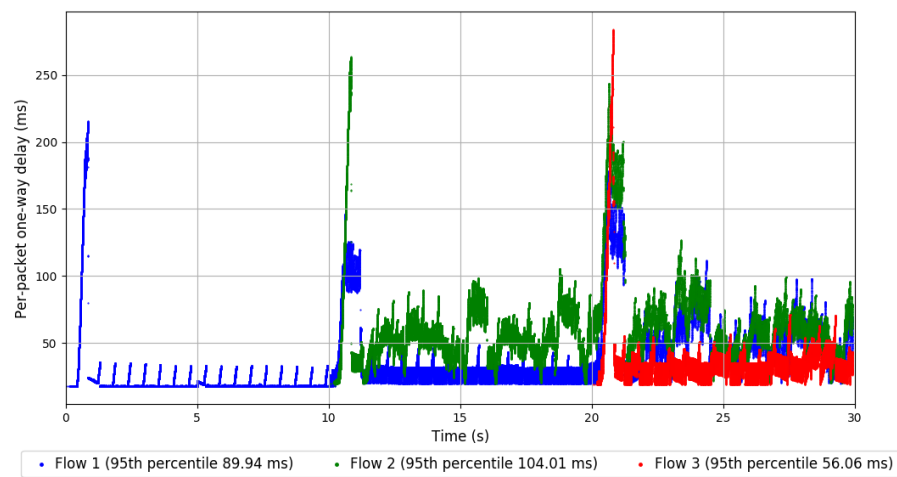
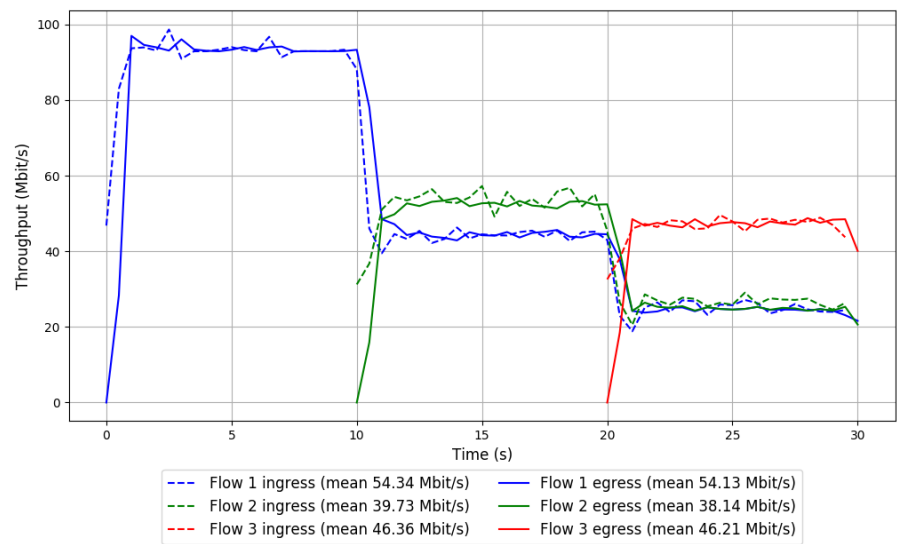


Run 1: Statistics of FillP

Start at: 2019-12-11 14:56:38  
End at: 2019-12-11 14:57:08  
Local clock offset: 1.304 ms  
Remote clock offset: -9.615 ms

# Below is generated by plot.py at 2019-12-11 17:29:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.79 Mbit/s  
95th percentile per-packet one-way delay: 92.972 ms  
Loss rate: 1.59%  
-- Flow 1:  
Average throughput: 54.13 Mbit/s  
95th percentile per-packet one-way delay: 89.939 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 38.14 Mbit/s  
95th percentile per-packet one-way delay: 104.014 ms  
Loss rate: 4.24%  
-- Flow 3:  
Average throughput: 46.21 Mbit/s  
95th percentile per-packet one-way delay: 56.060 ms  
Loss rate: 0.82%

Run 1: Report of FillP — Data Link

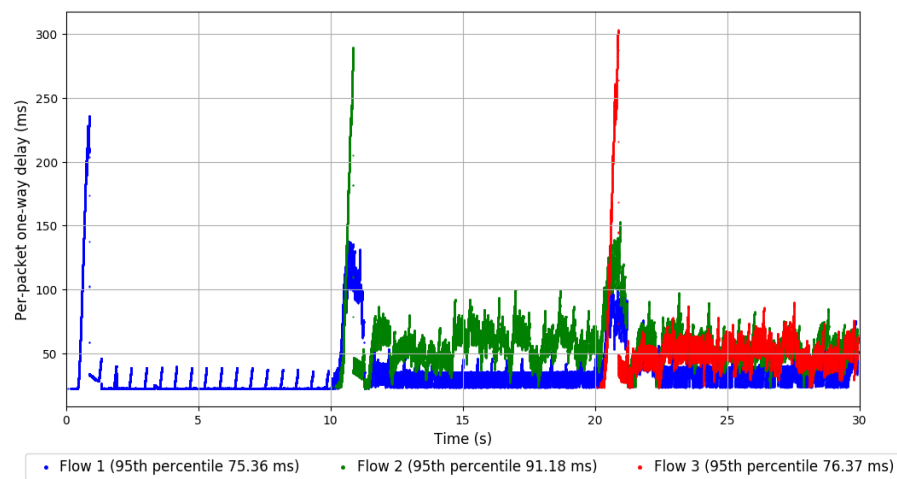
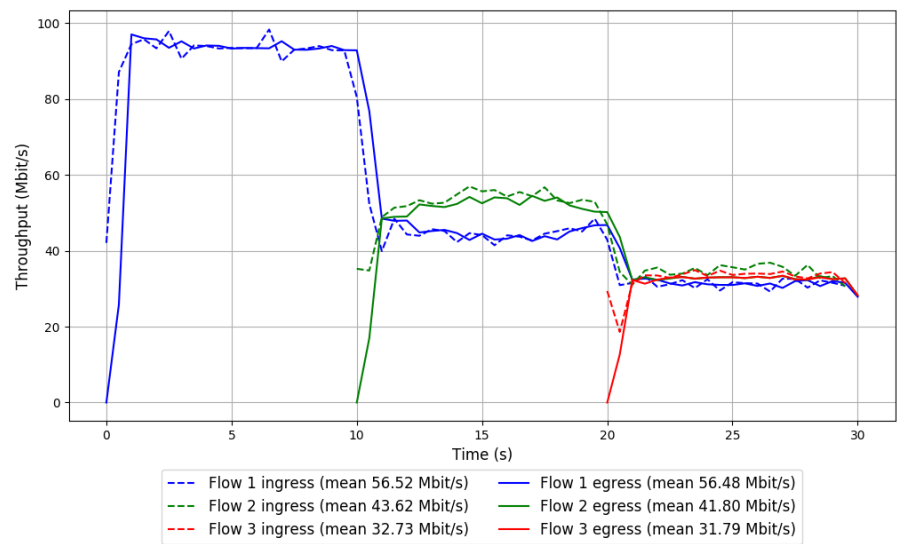


Run 2: Statistics of FillP

Start at: 2019-12-11 15:27:12  
End at: 2019-12-11 15:27:42  
Local clock offset: 4.366 ms  
Remote clock offset: -10.815 ms

# Below is generated by plot.py at 2019-12-11 17:29:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.83 Mbit/s  
95th percentile per-packet one-way delay: 82.886 ms  
Loss rate: 1.78%  
-- Flow 1:  
Average throughput: 56.48 Mbit/s  
95th percentile per-packet one-way delay: 75.361 ms  
Loss rate: 0.22%  
-- Flow 2:  
Average throughput: 41.80 Mbit/s  
95th percentile per-packet one-way delay: 91.184 ms  
Loss rate: 4.21%  
-- Flow 3:  
Average throughput: 31.79 Mbit/s  
95th percentile per-packet one-way delay: 76.368 ms  
Loss rate: 3.37%

Run 2: Report of FillP — Data Link

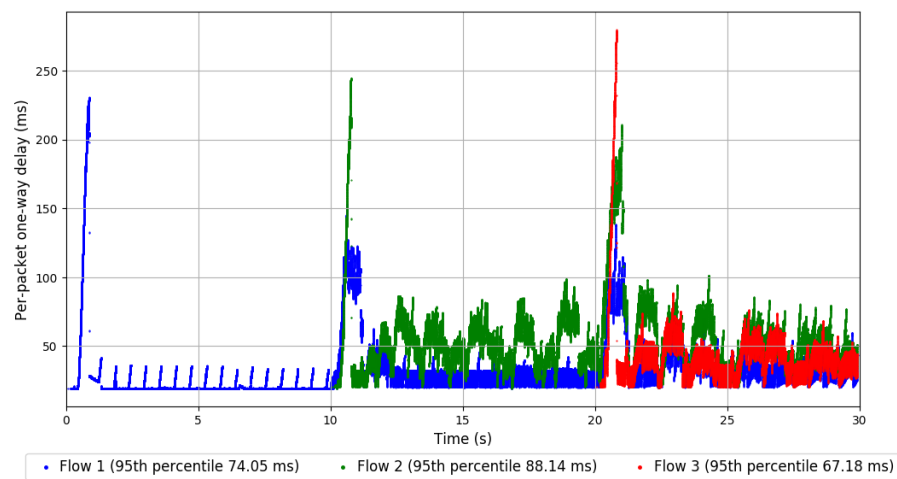
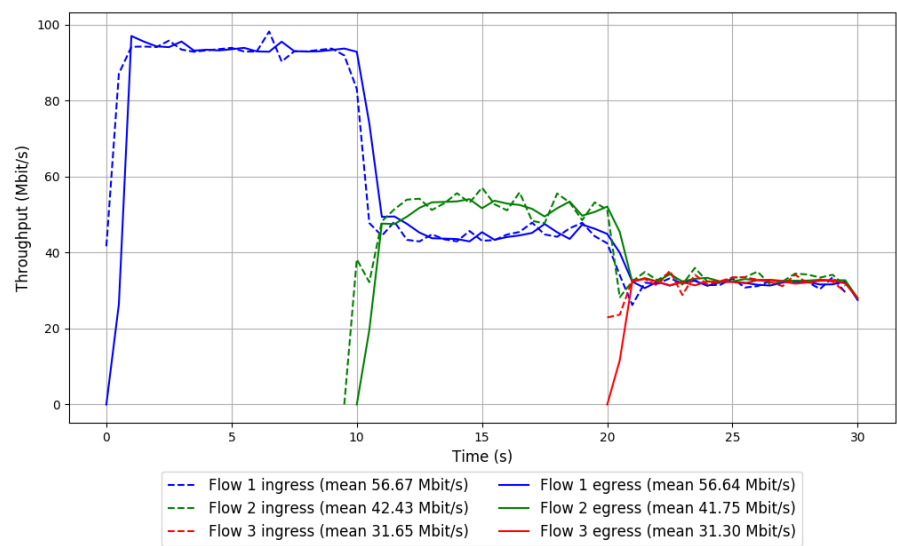


Run 3: Statistics of FillP

Start at: 2019-12-11 15:57:50  
End at: 2019-12-11 15:58:20  
Local clock offset: 6.39 ms  
Remote clock offset: -6.709 ms

# Below is generated by plot.py at 2019-12-11 17:29:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.80 Mbit/s  
95th percentile per-packet one-way delay: 82.881 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 56.64 Mbit/s  
95th percentile per-packet one-way delay: 74.049 ms  
Loss rate: 0.22%  
-- Flow 2:  
Average throughput: 41.75 Mbit/s  
95th percentile per-packet one-way delay: 88.144 ms  
Loss rate: 1.80%  
-- Flow 3:  
Average throughput: 31.30 Mbit/s  
95th percentile per-packet one-way delay: 67.177 ms  
Loss rate: 1.56%

Run 3: Report of FillP — Data Link

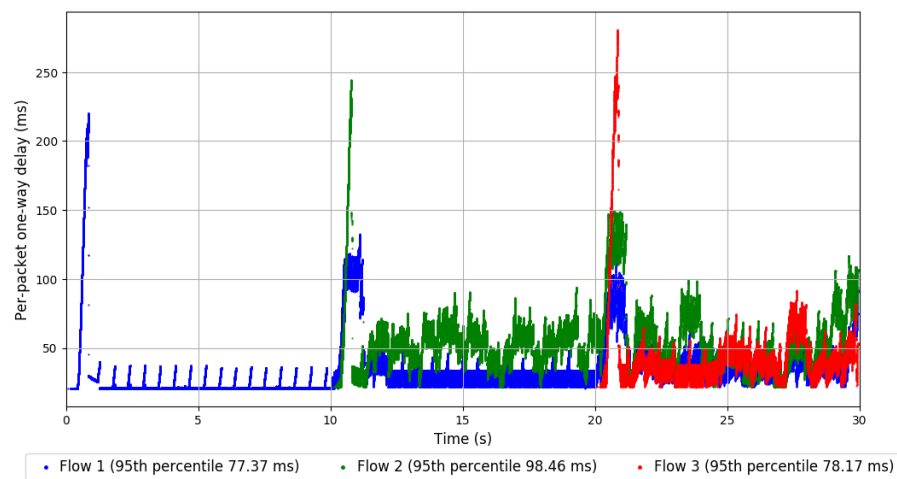
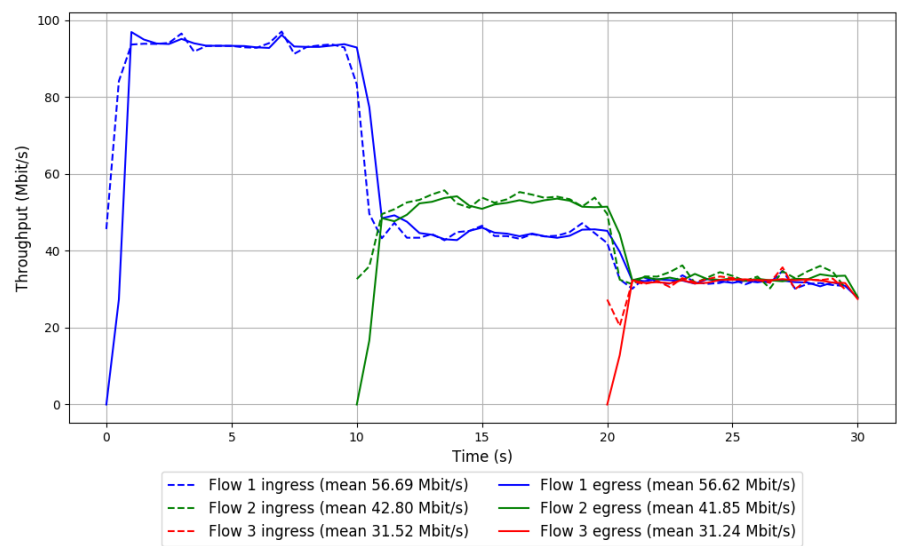


Run 4: Statistics of FillP

Start at: 2019-12-11 16:28:18  
End at: 2019-12-11 16:28:48  
Local clock offset: 5.926 ms  
Remote clock offset: -7.191 ms

# Below is generated by plot.py at 2019-12-11 17:29:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.79 Mbit/s  
95th percentile per-packet one-way delay: 86.058 ms  
Loss rate: 1.04%  
-- Flow 1:  
Average throughput: 56.62 Mbit/s  
95th percentile per-packet one-way delay: 77.367 ms  
Loss rate: 0.27%  
-- Flow 2:  
Average throughput: 41.85 Mbit/s  
95th percentile per-packet one-way delay: 98.457 ms  
Loss rate: 2.46%  
-- Flow 3:  
Average throughput: 31.24 Mbit/s  
95th percentile per-packet one-way delay: 78.165 ms  
Loss rate: 1.37%

Run 4: Report of FillP — Data Link

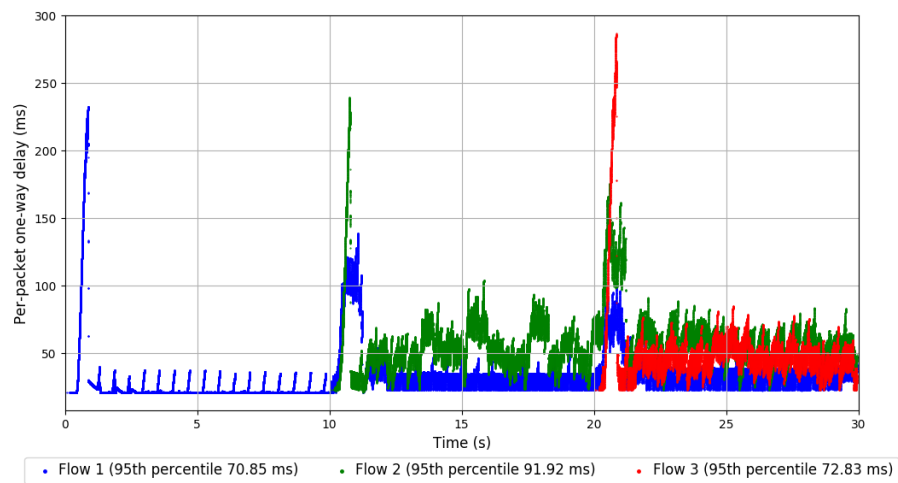
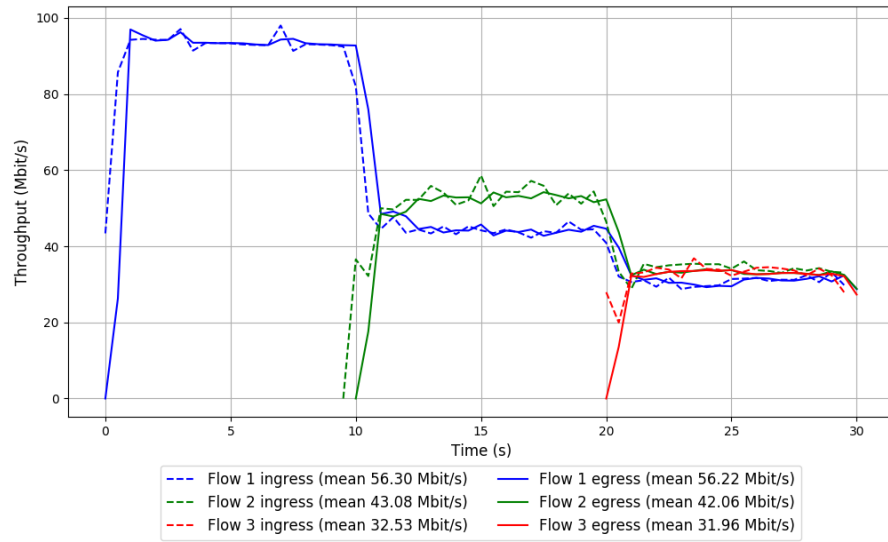


Run 5: Statistics of FillP

Start at: 2019-12-11 16:59:26  
End at: 2019-12-11 16:59:56  
Local clock offset: 3.908 ms  
Remote clock offset: -6.437 ms

# Below is generated by plot.py at 2019-12-11 17:30:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.80 Mbit/s  
95th percentile per-packet one-way delay: 80.998 ms  
Loss rate: 1.12%  
-- Flow 1:  
Average throughput: 56.22 Mbit/s  
95th percentile per-packet one-way delay: 70.853 ms  
Loss rate: 0.17%  
-- Flow 2:  
Average throughput: 42.06 Mbit/s  
95th percentile per-packet one-way delay: 91.920 ms  
Loss rate: 2.60%  
-- Flow 3:  
Average throughput: 31.96 Mbit/s  
95th percentile per-packet one-way delay: 72.826 ms  
Loss rate: 2.16%

## Run 5: Report of FillP — Data Link

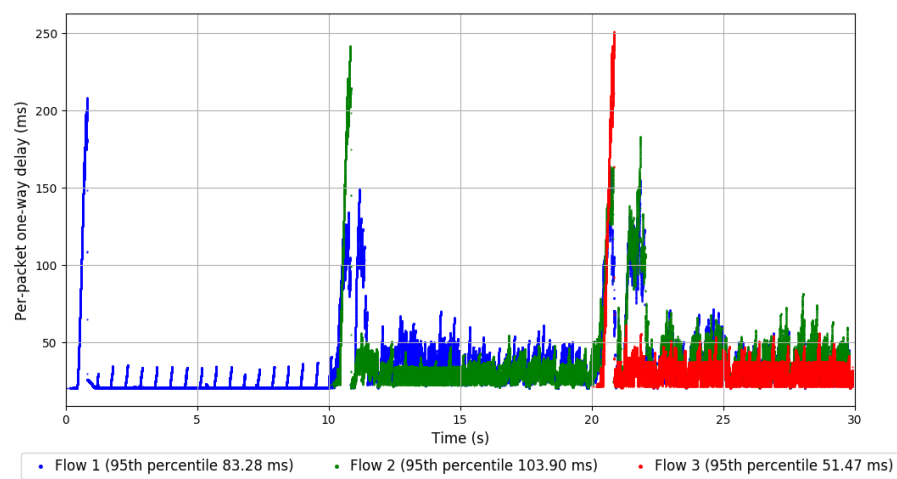
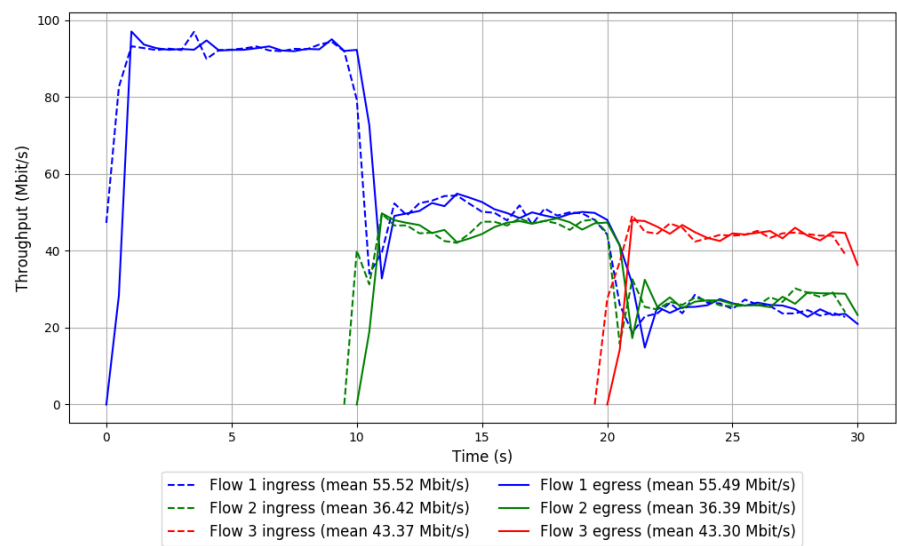


Run 1: Statistics of FillP-Sheep

Start at: 2019-12-11 15:13:02  
End at: 2019-12-11 15:13:32  
Local clock offset: 4.228 ms  
Remote clock offset: -9.125 ms

# Below is generated by plot.py at 2019-12-11 17:30:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.06 Mbit/s  
95th percentile per-packet one-way delay: 84.305 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 55.49 Mbit/s  
95th percentile per-packet one-way delay: 83.280 ms  
Loss rate: 0.20%  
-- Flow 2:  
Average throughput: 36.39 Mbit/s  
95th percentile per-packet one-way delay: 103.904 ms  
Loss rate: 0.38%  
-- Flow 3:  
Average throughput: 43.30 Mbit/s  
95th percentile per-packet one-way delay: 51.474 ms  
Loss rate: 0.57%

Run 1: Report of FillP-Sheep — Data Link

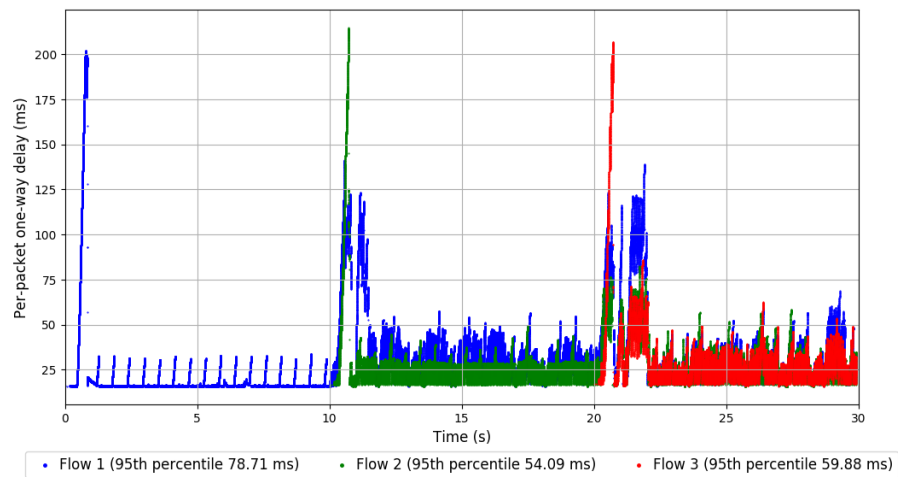
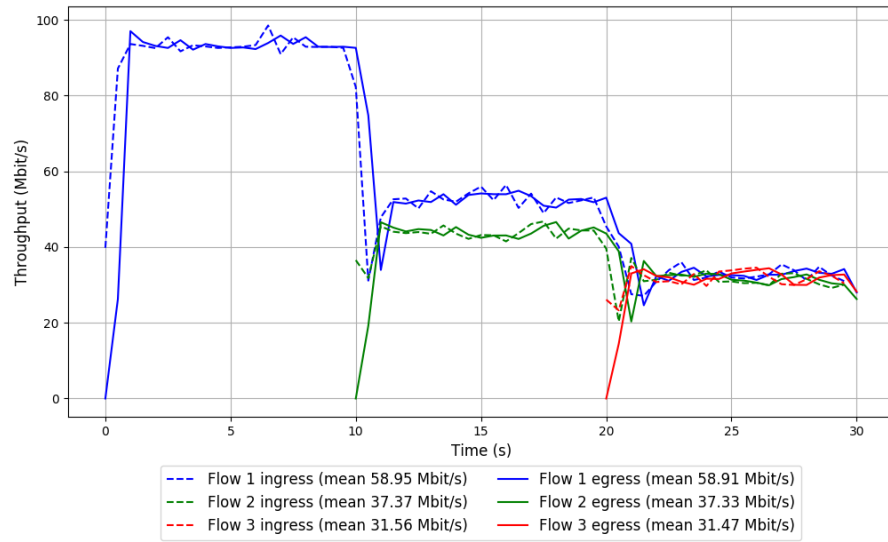


Run 2: Statistics of FillP-Sheep

Start at: 2019-12-11 15:43:52  
End at: 2019-12-11 15:44:22  
Local clock offset: 0.103 ms  
Remote clock offset: -9.297 ms

# Below is generated by plot.py at 2019-12-11 17:30:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.18 Mbit/s  
95th percentile per-packet one-way delay: 62.834 ms  
Loss rate: 0.30%  
-- Flow 1:  
Average throughput: 58.91 Mbit/s  
95th percentile per-packet one-way delay: 78.708 ms  
Loss rate: 0.19%  
-- Flow 2:  
Average throughput: 37.33 Mbit/s  
95th percentile per-packet one-way delay: 54.091 ms  
Loss rate: 0.37%  
-- Flow 3:  
Average throughput: 31.47 Mbit/s  
95th percentile per-packet one-way delay: 59.876 ms  
Loss rate: 0.75%

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

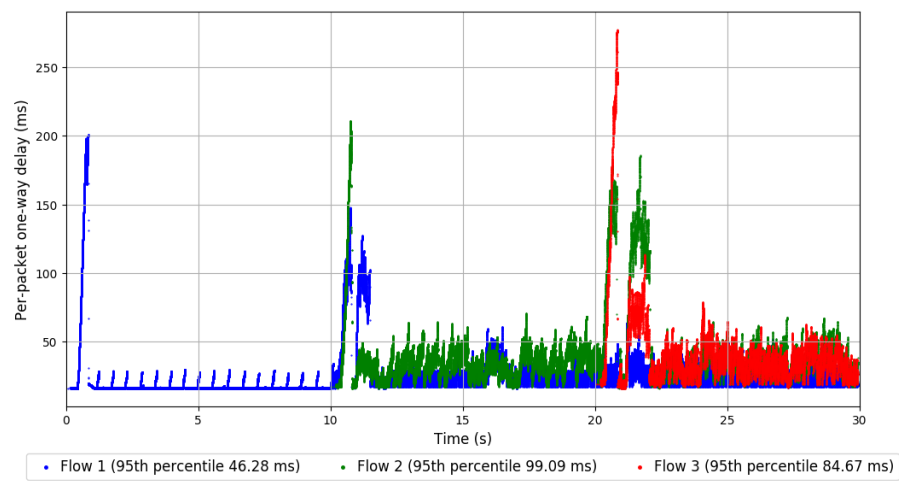
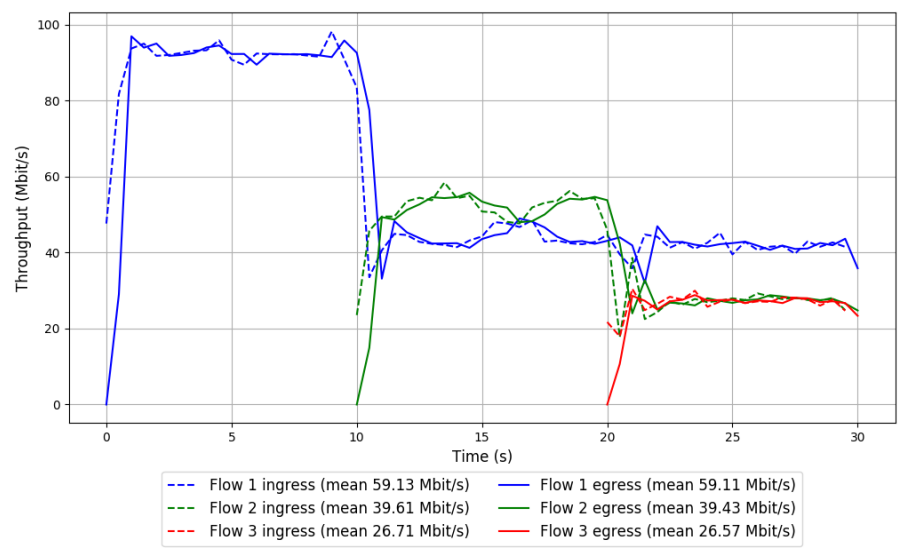


Run 3: Statistics of FillP-Sheep

Start at: 2019-12-11 16:14:09  
End at: 2019-12-11 16:14:39  
Local clock offset: 1.631 ms  
Remote clock offset: -7.746 ms

# Below is generated by plot.py at 2019-12-11 17:30:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.14 Mbit/s  
95th percentile per-packet one-way delay: 65.834 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 59.11 Mbit/s  
95th percentile per-packet one-way delay: 46.276 ms  
Loss rate: 0.20%  
-- Flow 2:  
Average throughput: 39.43 Mbit/s  
95th percentile per-packet one-way delay: 99.090 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 26.57 Mbit/s  
95th percentile per-packet one-way delay: 84.671 ms  
Loss rate: 0.98%

Run 3: Report of FillP-Sheep — Data Link

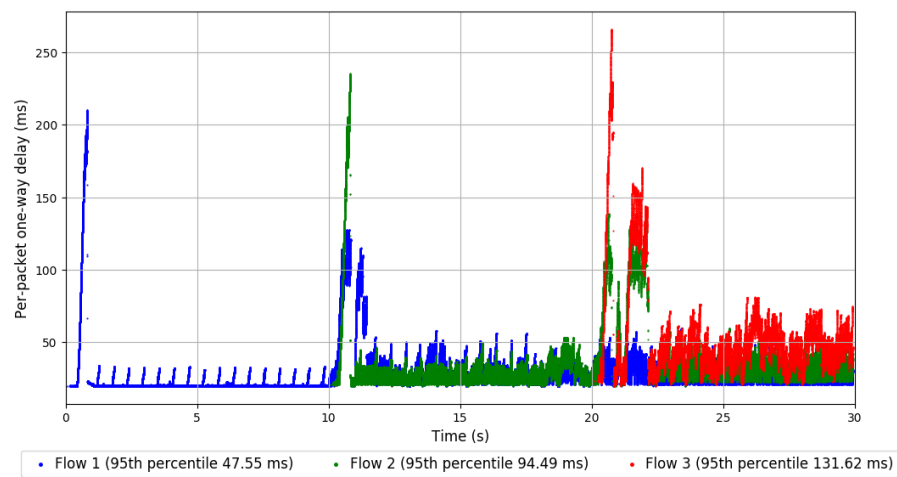
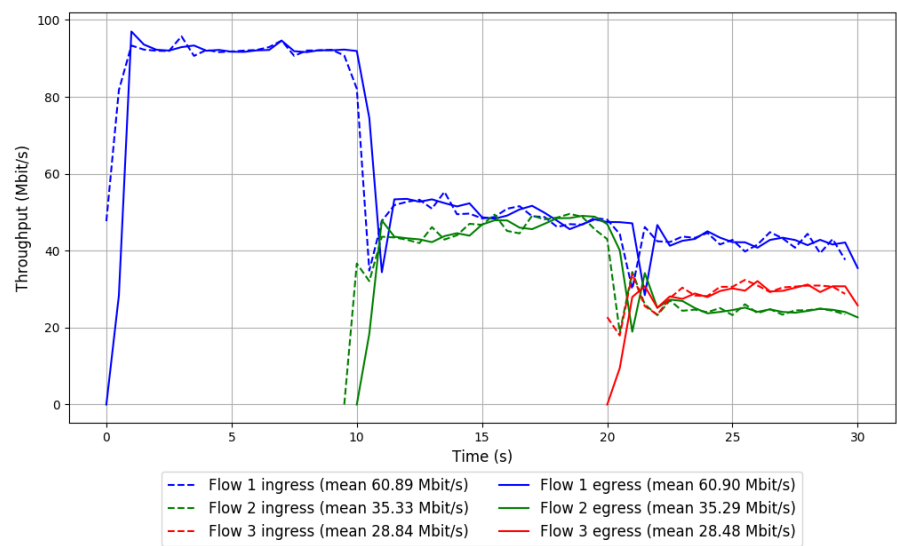


Run 4: Statistics of FillP-Sheep

Start at: 2019-12-11 16:45:19  
End at: 2019-12-11 16:45:49  
Local clock offset: 4.684 ms  
Remote clock offset: -5.747 ms

# Below is generated by plot.py at 2019-12-11 17:30:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.83 Mbit/s  
95th percentile per-packet one-way delay: 72.796 ms  
Loss rate: 0.34%  
-- Flow 1:  
Average throughput: 60.90 Mbit/s  
95th percentile per-packet one-way delay: 47.546 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 35.29 Mbit/s  
95th percentile per-packet one-way delay: 94.492 ms  
Loss rate: 0.28%  
-- Flow 3:  
Average throughput: 28.48 Mbit/s  
95th percentile per-packet one-way delay: 131.625 ms  
Loss rate: 1.77%

Run 4: Report of FillP-Sheep — Data Link

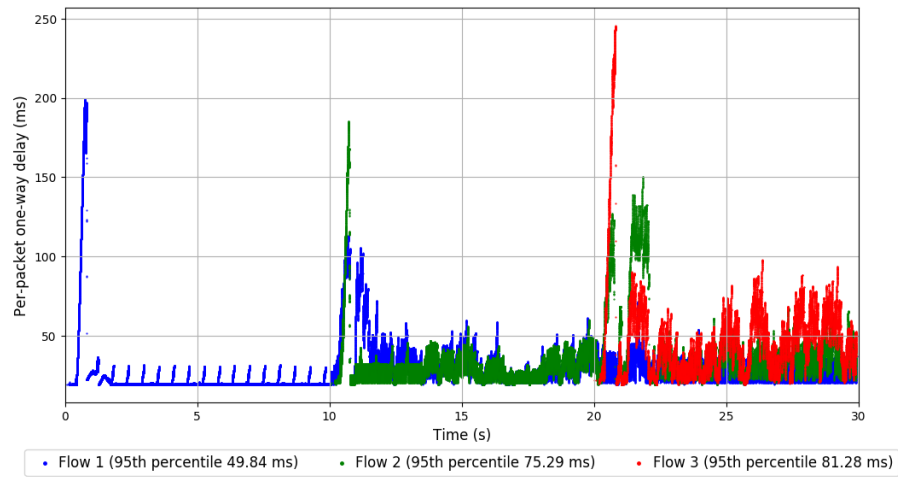
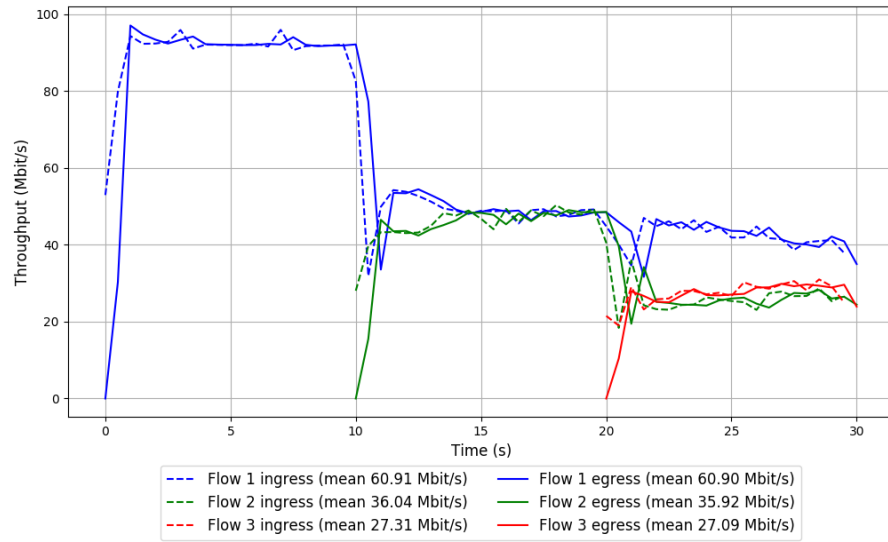


Run 5: Statistics of FillP-Sheep

Start at: 2019-12-11 17:16:05  
End at: 2019-12-11 17:16:35  
Local clock offset: 4.445 ms  
Remote clock offset: -4.125 ms

```
# Below is generated by plot.py at 2019-12-11 17:30:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.75 Mbit/s
95th percentile per-packet one-way delay: 67.554 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 60.90 Mbit/s
95th percentile per-packet one-way delay: 49.841 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 35.92 Mbit/s
95th percentile per-packet one-way delay: 75.292 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 27.09 Mbit/s
95th percentile per-packet one-way delay: 81.282 ms
Loss rate: 1.19%
```

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

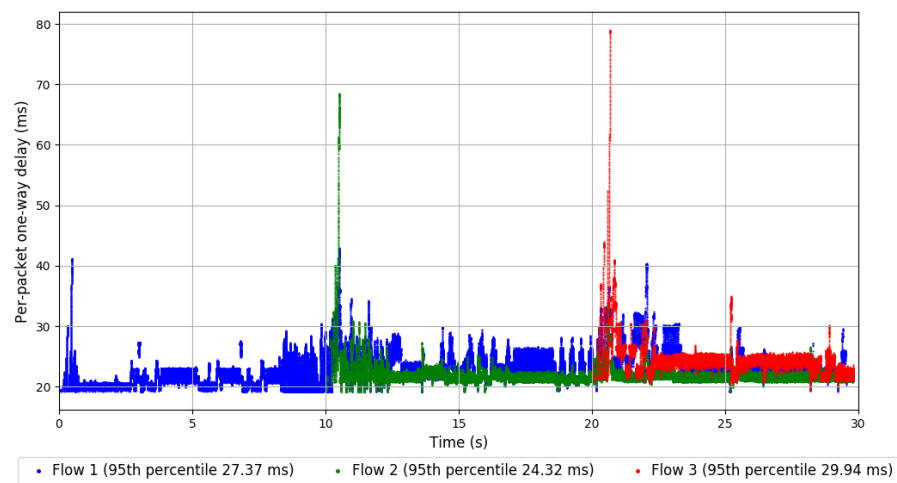
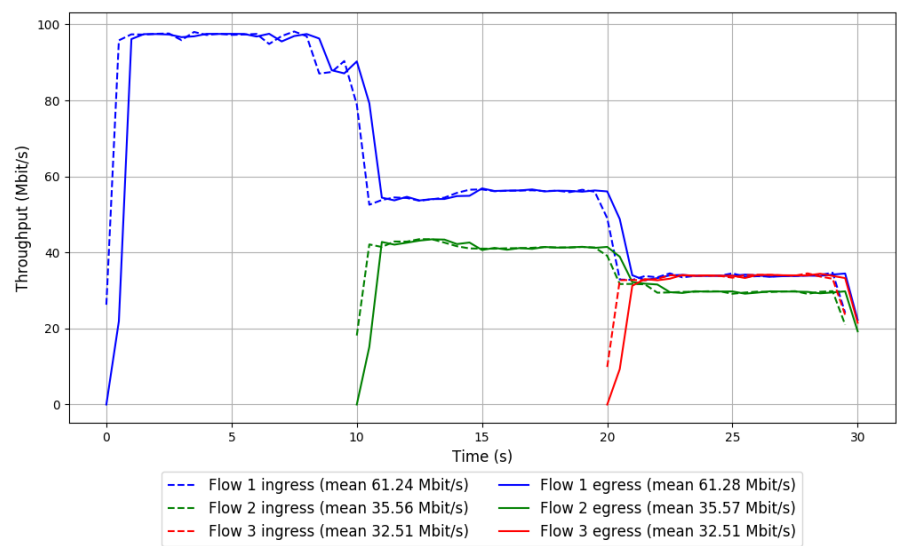


Run 1: Statistics of Indigo

Start at: 2019-12-11 15:18:08  
End at: 2019-12-11 15:18:38  
Local clock offset: 4.47 ms  
Remote clock offset: -7.365 ms

# Below is generated by plot.py at 2019-12-11 17:30:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.57 Mbit/s  
95th percentile per-packet one-way delay: 27.022 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 61.28 Mbit/s  
95th percentile per-packet one-way delay: 27.374 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 35.57 Mbit/s  
95th percentile per-packet one-way delay: 24.316 ms  
Loss rate: 0.22%  
-- Flow 3:  
Average throughput: 32.51 Mbit/s  
95th percentile per-packet one-way delay: 29.944 ms  
Loss rate: 0.55%

Run 1: Report of Indigo — Data Link

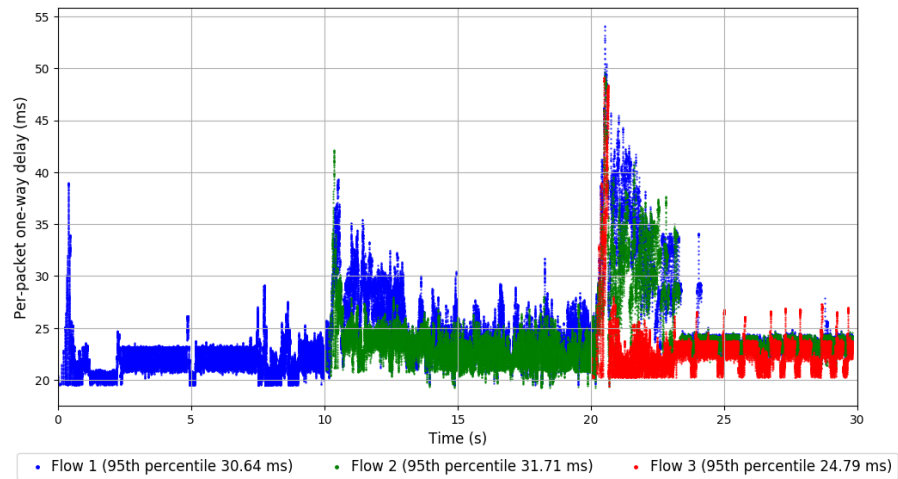
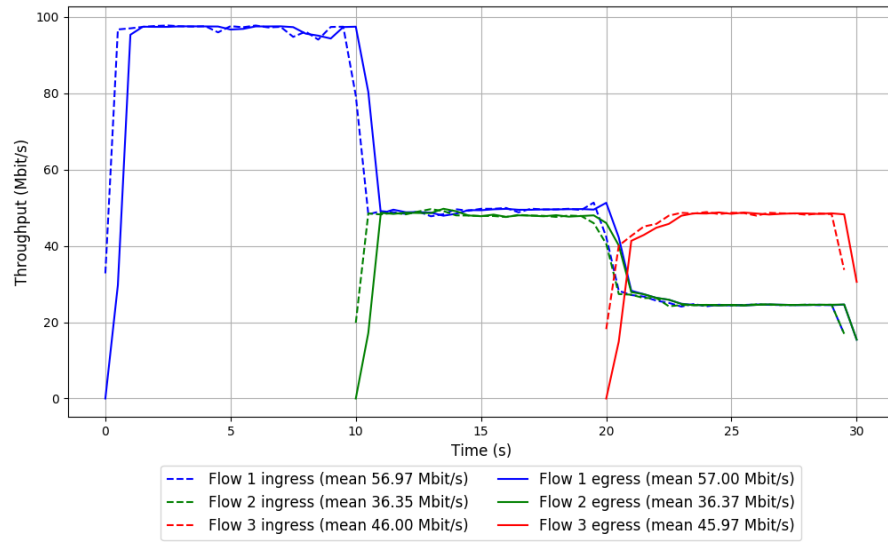


Run 2: Statistics of Indigo

Start at: 2019-12-11 15:49:01  
End at: 2019-12-11 15:49:31  
Local clock offset: 4.931 ms  
Remote clock offset: -8.305 ms

# Below is generated by plot.py at 2019-12-11 17:30:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.22 Mbit/s  
95th percentile per-packet one-way delay: 30.387 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 57.00 Mbit/s  
95th percentile per-packet one-way delay: 30.642 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 36.37 Mbit/s  
95th percentile per-packet one-way delay: 31.715 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 45.97 Mbit/s  
95th percentile per-packet one-way delay: 24.788 ms  
Loss rate: 0.58%

## Run 2: Report of Indigo — Data Link

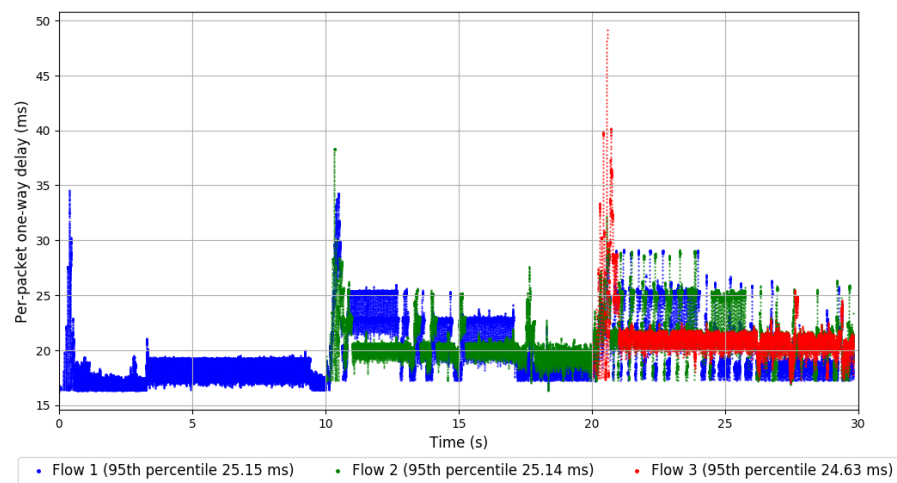
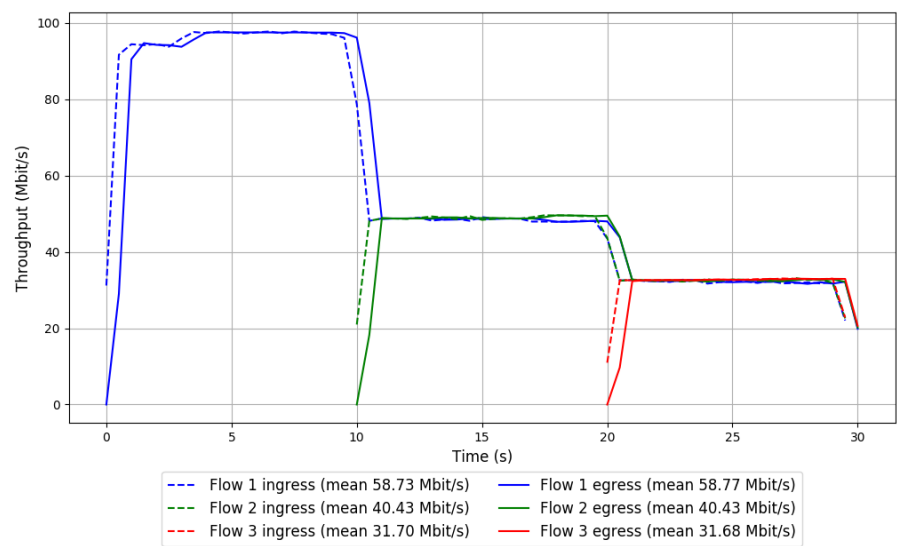


Run 3: Statistics of Indigo

Start at: 2019-12-11 16:19:28  
End at: 2019-12-11 16:19:58  
Local clock offset: 0.96 ms  
Remote clock offset: -8.193 ms

# Below is generated by plot.py at 2019-12-11 17:31:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.02 Mbit/s  
95th percentile per-packet one-way delay: 25.126 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 58.77 Mbit/s  
95th percentile per-packet one-way delay: 25.151 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 40.43 Mbit/s  
95th percentile per-packet one-way delay: 25.135 ms  
Loss rate: 0.22%  
-- Flow 3:  
Average throughput: 31.68 Mbit/s  
95th percentile per-packet one-way delay: 24.629 ms  
Loss rate: 0.59%

Run 3: Report of Indigo — Data Link

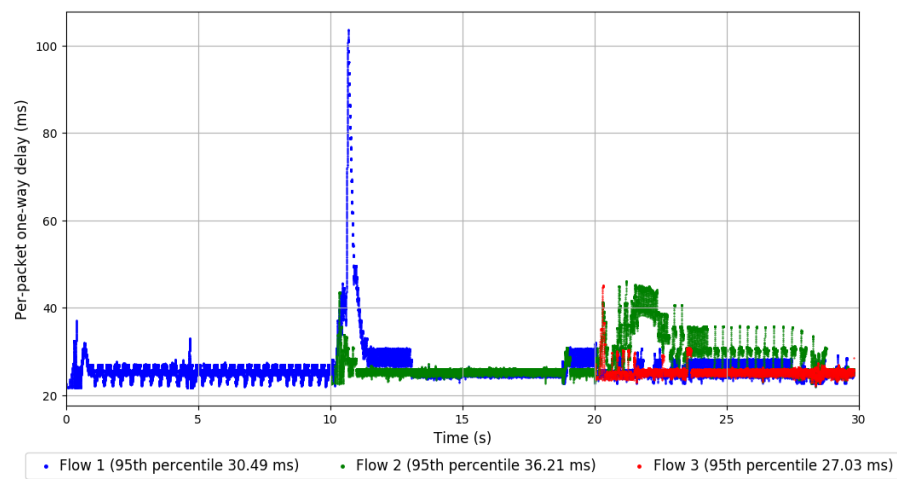
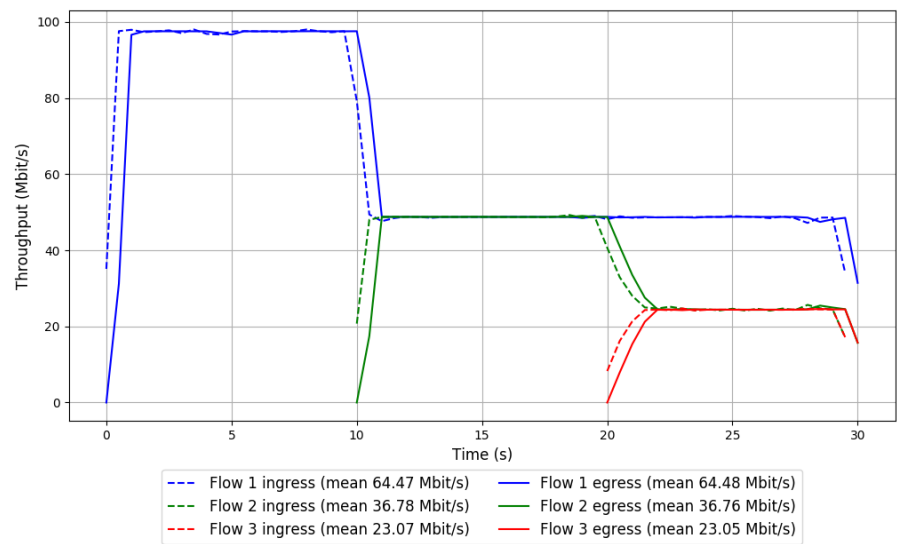


Run 4: Statistics of Indigo

Start at: 2019-12-11 16:50:42  
End at: 2019-12-11 16:51:12  
Local clock offset: 5.371 ms  
Remote clock offset: -6.178 ms

```
# Below is generated by plot.py at 2019-12-11 17:31:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.44 Mbit/s
95th percentile per-packet one-way delay: 31.031 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 64.48 Mbit/s
95th percentile per-packet one-way delay: 30.493 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 36.76 Mbit/s
95th percentile per-packet one-way delay: 36.213 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 23.05 Mbit/s
95th percentile per-packet one-way delay: 27.032 ms
Loss rate: 0.58%
```

Run 4: Report of Indigo — Data Link

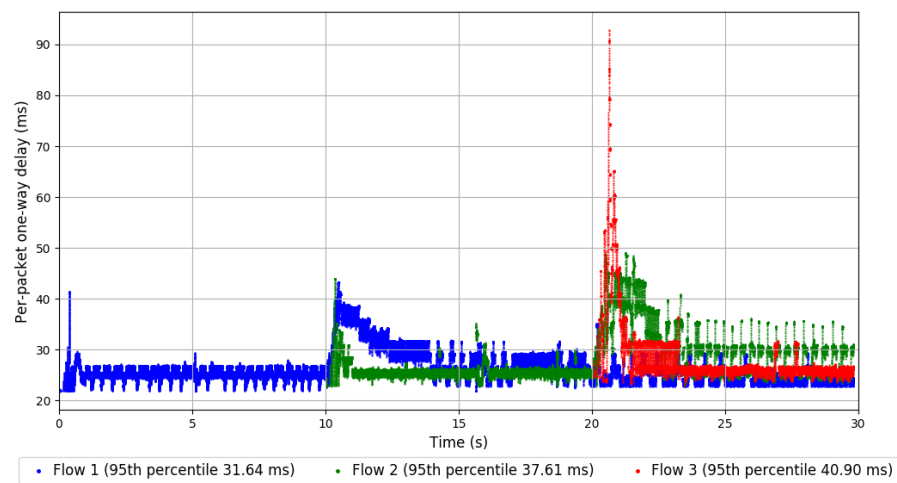
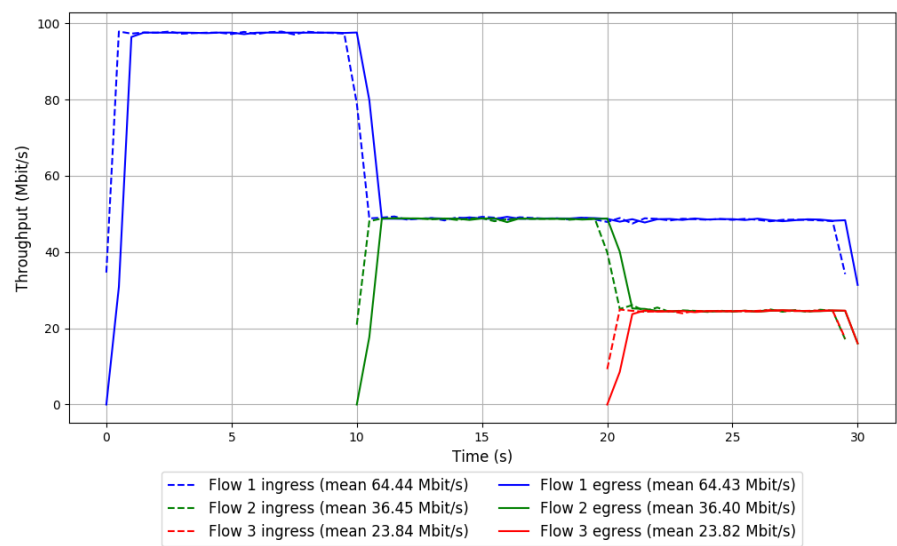


Run 5: Statistics of Indigo

Start at: 2019-12-11 17:21:17  
End at: 2019-12-11 17:21:47  
Local clock offset: 4.864 ms  
Remote clock offset: -6.094 ms

# Below is generated by plot.py at 2019-12-11 17:31:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.42 Mbit/s  
95th percentile per-packet one-way delay: 33.712 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 64.43 Mbit/s  
95th percentile per-packet one-way delay: 31.644 ms  
Loss rate: 0.18%  
-- Flow 2:  
Average throughput: 36.40 Mbit/s  
95th percentile per-packet one-way delay: 37.606 ms  
Loss rate: 0.38%  
-- Flow 3:  
Average throughput: 23.82 Mbit/s  
95th percentile per-packet one-way delay: 40.900 ms  
Loss rate: 0.62%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-12-11 15:08:14

End at: 2019-12-11 15:08:44

Local clock offset: 4.581 ms

Remote clock offset: -8.18 ms

# Below is generated by plot.py at 2019-12-11 17:31:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.47 Mbit/s

95th percentile per-packet one-way delay: 28.361 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 55.92 Mbit/s

95th percentile per-packet one-way delay: 28.460 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 32.30 Mbit/s

95th percentile per-packet one-way delay: 27.988 ms

Loss rate: 0.16%

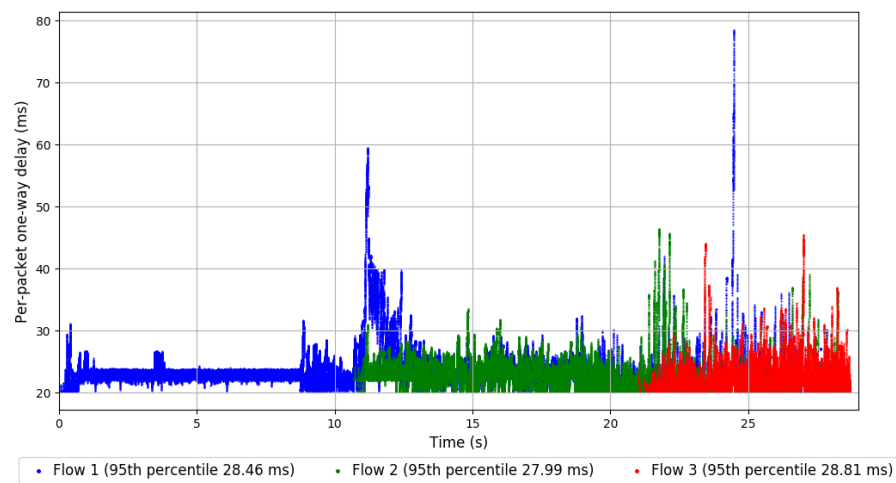
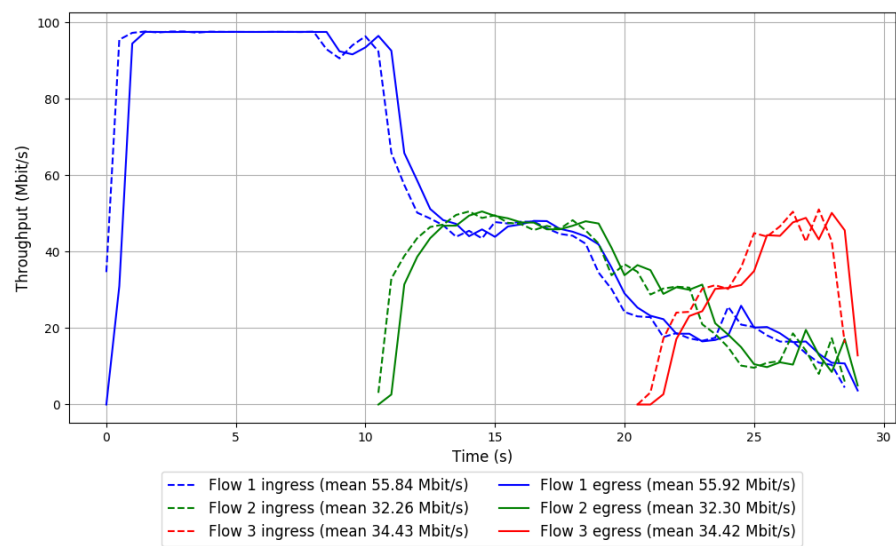
-- Flow 3:

Average throughput: 34.42 Mbit/s

95th percentile per-packet one-way delay: 28.811 ms

Loss rate: 0.66%

Run 1: Report of Indigo-MusesC3 — Data Link

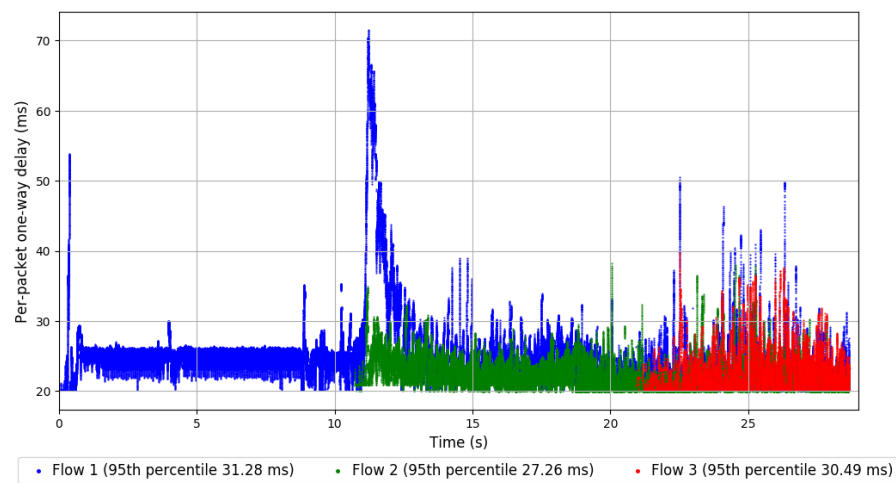
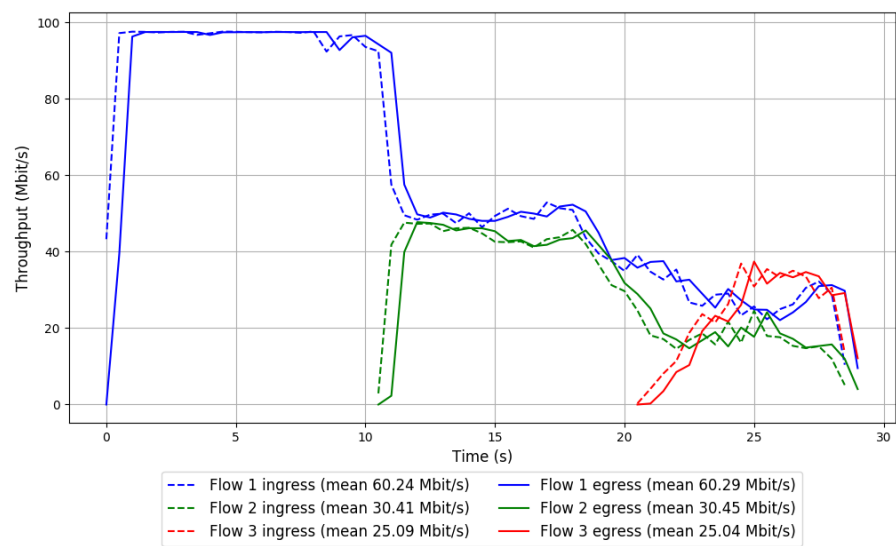


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-12-11 15:38:57  
End at: 2019-12-11 15:39:27  
Local clock offset: 3.861 ms  
Remote clock offset: -8.853 ms

# Below is generated by plot.py at 2019-12-11 17:31:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.16 Mbit/s  
95th percentile per-packet one-way delay: 29.934 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 60.29 Mbit/s  
95th percentile per-packet one-way delay: 31.282 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 30.45 Mbit/s  
95th percentile per-packet one-way delay: 27.263 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 25.04 Mbit/s  
95th percentile per-packet one-way delay: 30.488 ms  
Loss rate: 0.84%

Run 2: Report of Indigo-MusesC3 — Data Link

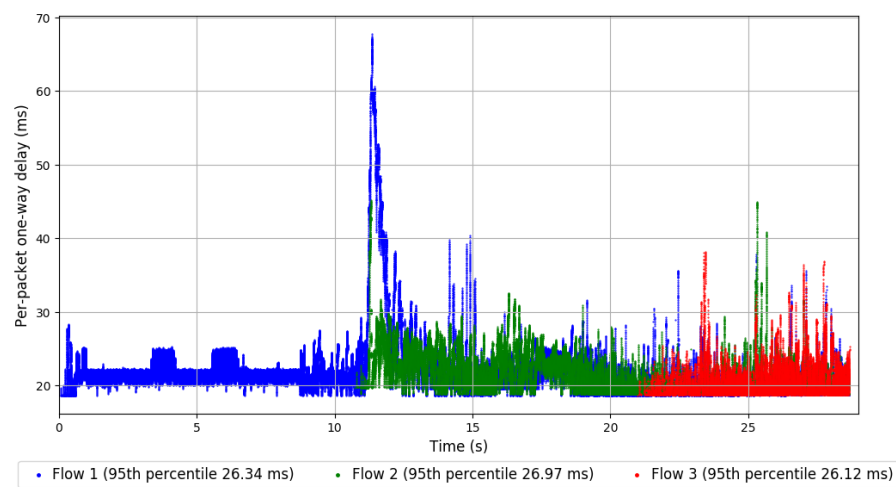
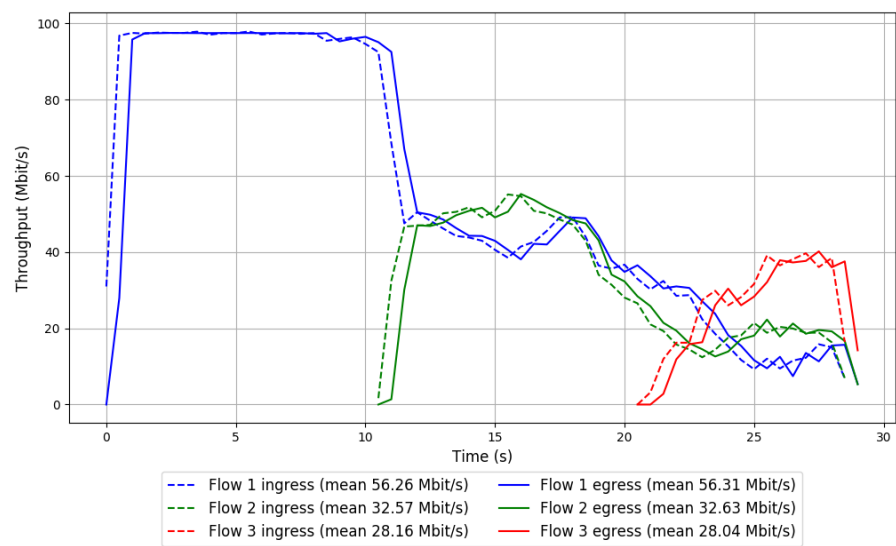


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-12-11 16:09:05  
End at: 2019-12-11 16:09:35  
Local clock offset: 6.143 ms  
Remote clock offset: -6.048 ms

# Below is generated by plot.py at 2019-12-11 17:31:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.22 Mbit/s  
95th percentile per-packet one-way delay: 26.652 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 56.31 Mbit/s  
95th percentile per-packet one-way delay: 26.344 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 32.63 Mbit/s  
95th percentile per-packet one-way delay: 26.967 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 28.04 Mbit/s  
95th percentile per-packet one-way delay: 26.121 ms  
Loss rate: 1.04%

Run 3: Report of Indigo-MusesC3 — Data Link

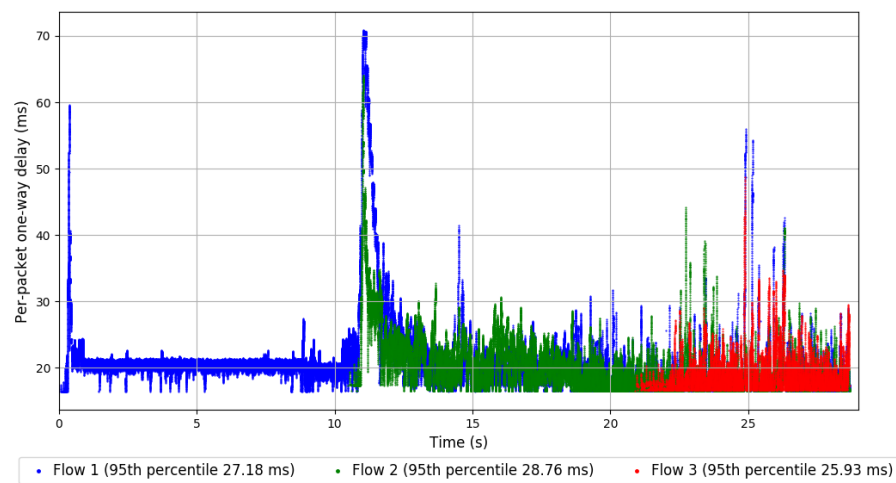
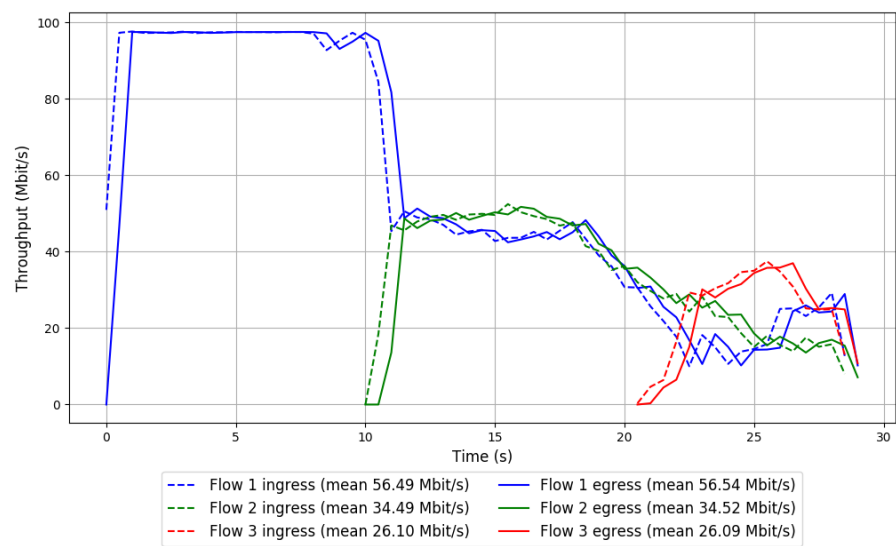


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-12-11 16:40:19  
End at: 2019-12-11 16:40:49  
Local clock offset: 1.695 ms  
Remote clock offset: -6.134 ms

# Below is generated by plot.py at 2019-12-11 17:31:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.50 Mbit/s  
95th percentile per-packet one-way delay: 27.805 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 56.54 Mbit/s  
95th percentile per-packet one-way delay: 27.184 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 34.52 Mbit/s  
95th percentile per-packet one-way delay: 28.758 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 26.09 Mbit/s  
95th percentile per-packet one-way delay: 25.934 ms  
Loss rate: 0.75%

Run 4: Report of Indigo-MusesC3 — Data Link

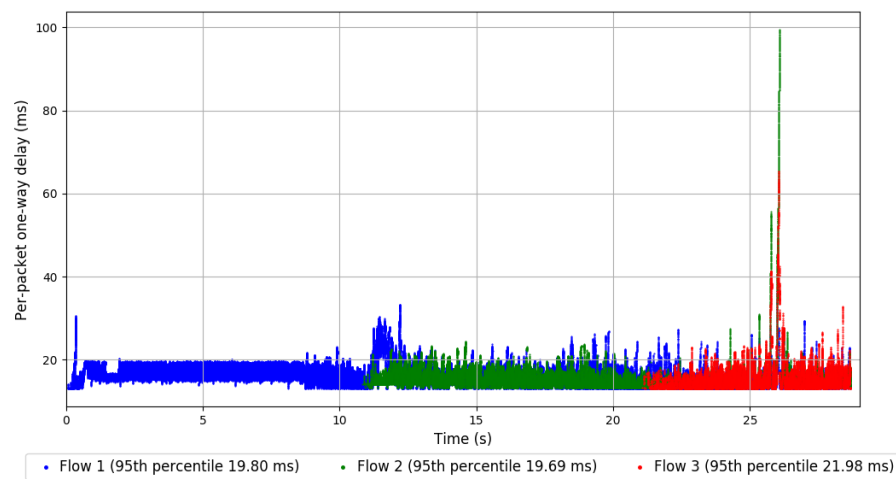
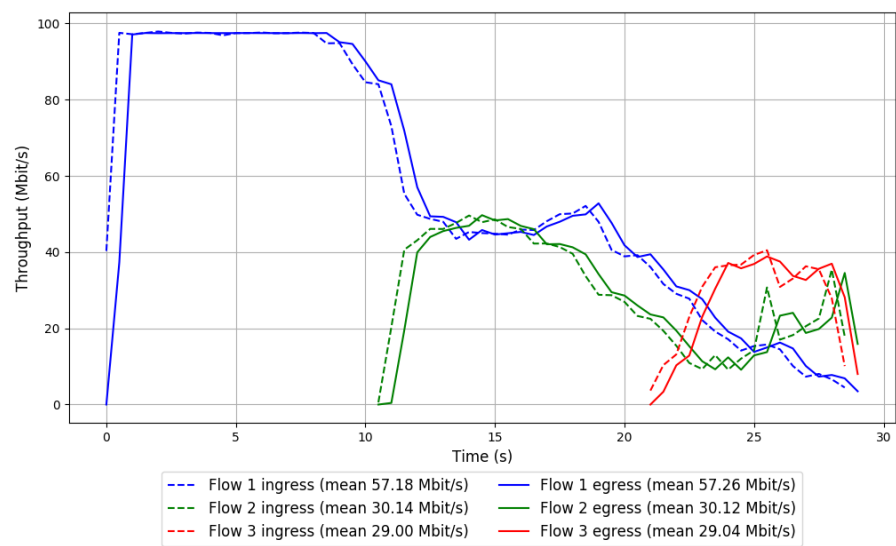


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-12-11 17:11:13  
End at: 2019-12-11 17:11:43  
Local clock offset: -0.651 ms  
Remote clock offset: -2.624 ms

# Below is generated by plot.py at 2019-12-11 17:31:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.70 Mbit/s  
95th percentile per-packet one-way delay: 19.957 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 57.26 Mbit/s  
95th percentile per-packet one-way delay: 19.800 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 30.12 Mbit/s  
95th percentile per-packet one-way delay: 19.691 ms  
Loss rate: 0.34%  
-- Flow 3:  
Average throughput: 29.04 Mbit/s  
95th percentile per-packet one-way delay: 21.982 ms  
Loss rate: 0.56%

Run 5: Report of Indigo-MusesC3 — Data Link

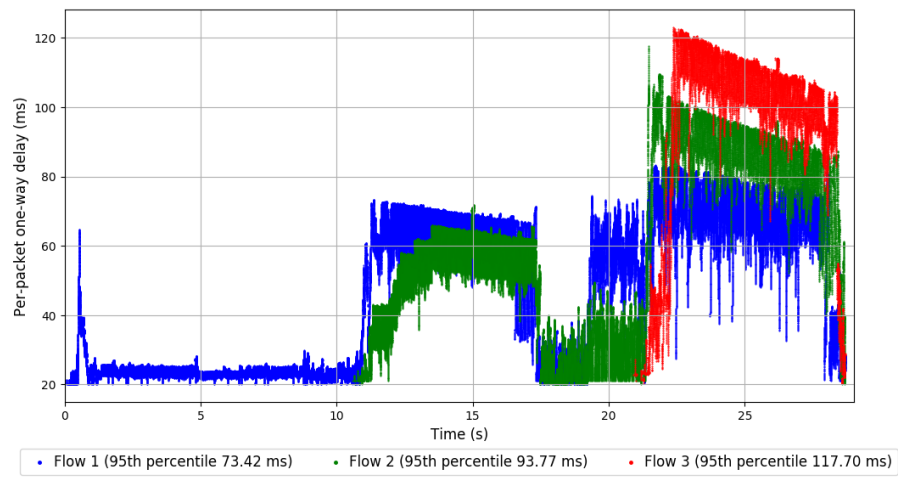
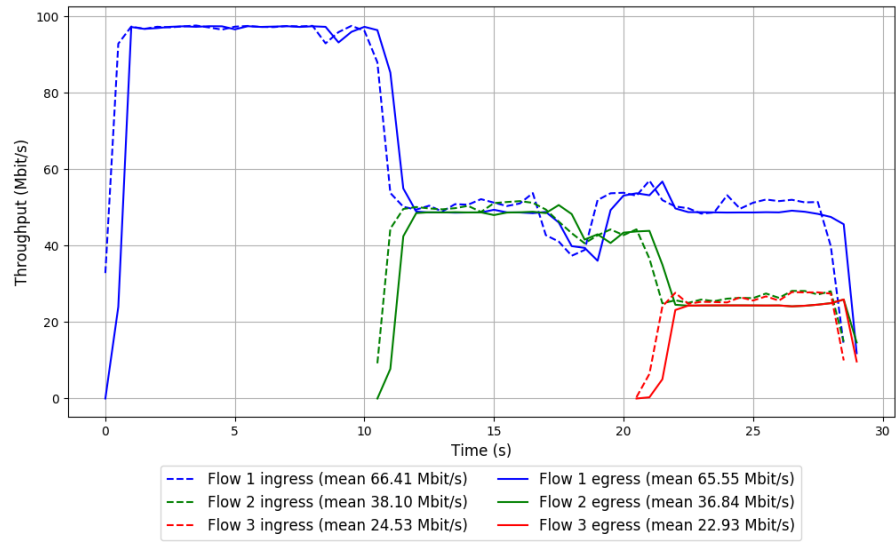


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-12-11 14:53:56  
End at: 2019-12-11 14:54:26  
Local clock offset: 4.011 ms  
Remote clock offset: -9.152 ms

# Below is generated by plot.py at 2019-12-11 17:32:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.03 Mbit/s  
95th percentile per-packet one-way delay: 97.368 ms  
Loss rate: 2.39%  
-- Flow 1:  
Average throughput: 65.55 Mbit/s  
95th percentile per-packet one-way delay: 73.423 ms  
Loss rate: 1.46%  
-- Flow 2:  
Average throughput: 36.84 Mbit/s  
95th percentile per-packet one-way delay: 93.769 ms  
Loss rate: 3.64%  
-- Flow 3:  
Average throughput: 22.93 Mbit/s  
95th percentile per-packet one-way delay: 117.697 ms  
Loss rate: 7.17%

# Run 1: Report of Indigo-MusesC5 — Data Link

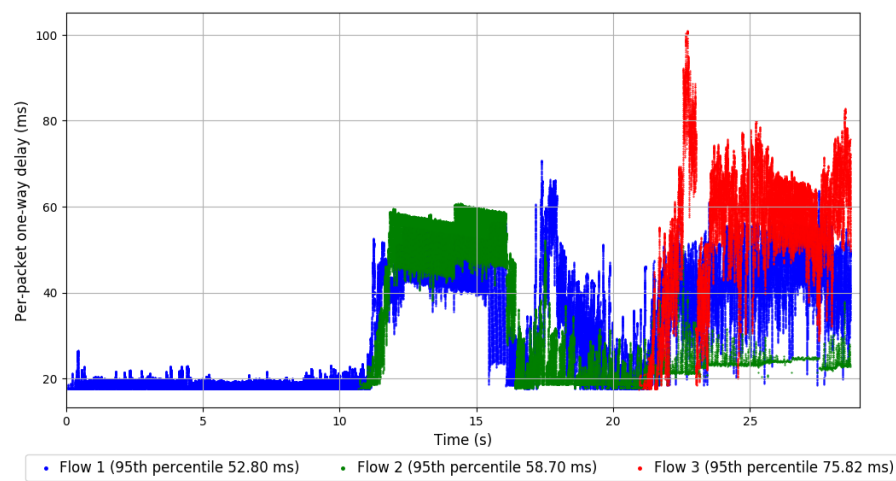
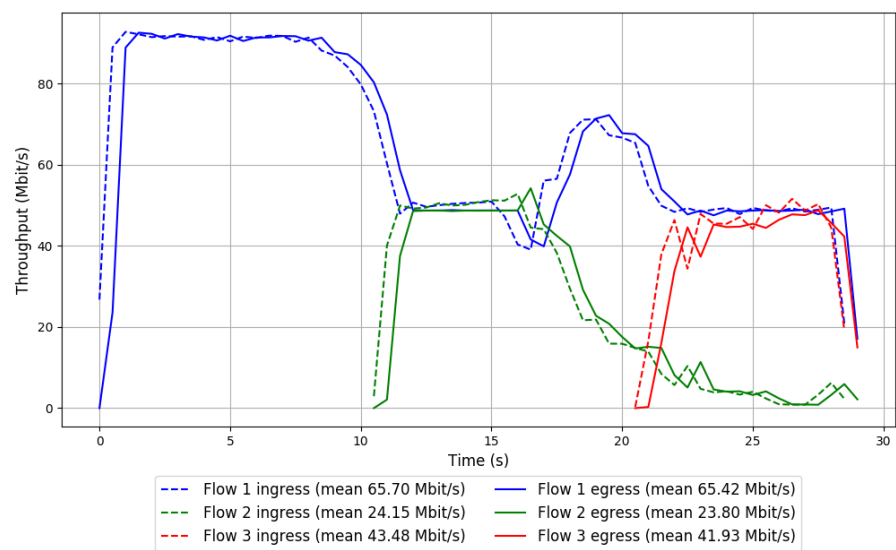


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-12-11 15:24:36  
End at: 2019-12-11 15:25:06  
Local clock offset: 1.606 ms  
Remote clock offset: -8.588 ms

# Below is generated by plot.py at 2019-12-11 17:32:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.71 Mbit/s  
95th percentile per-packet one-way delay: 61.730 ms  
Loss rate: 1.21%  
-- Flow 1:  
Average throughput: 65.42 Mbit/s  
95th percentile per-packet one-way delay: 52.801 ms  
Loss rate: 0.59%  
-- Flow 2:  
Average throughput: 23.80 Mbit/s  
95th percentile per-packet one-way delay: 58.702 ms  
Loss rate: 1.66%  
-- Flow 3:  
Average throughput: 41.93 Mbit/s  
95th percentile per-packet one-way delay: 75.816 ms  
Loss rate: 4.13%

Run 2: Report of Indigo-MusesC5 — Data Link

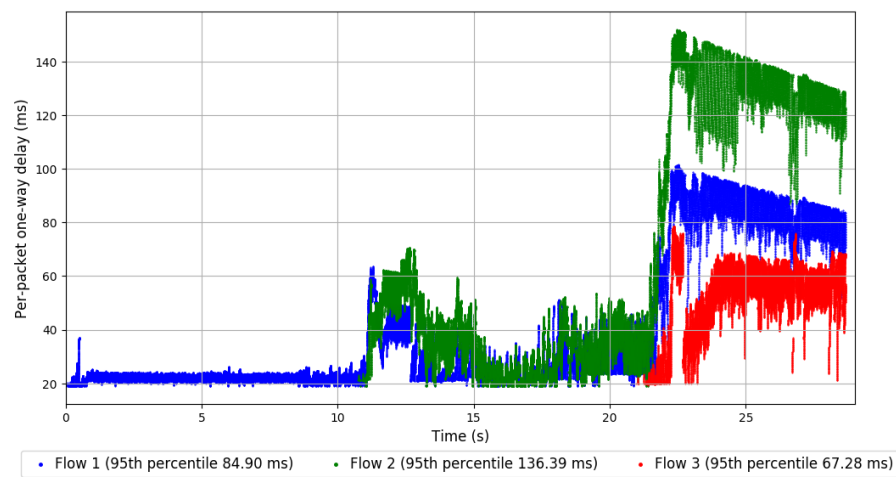
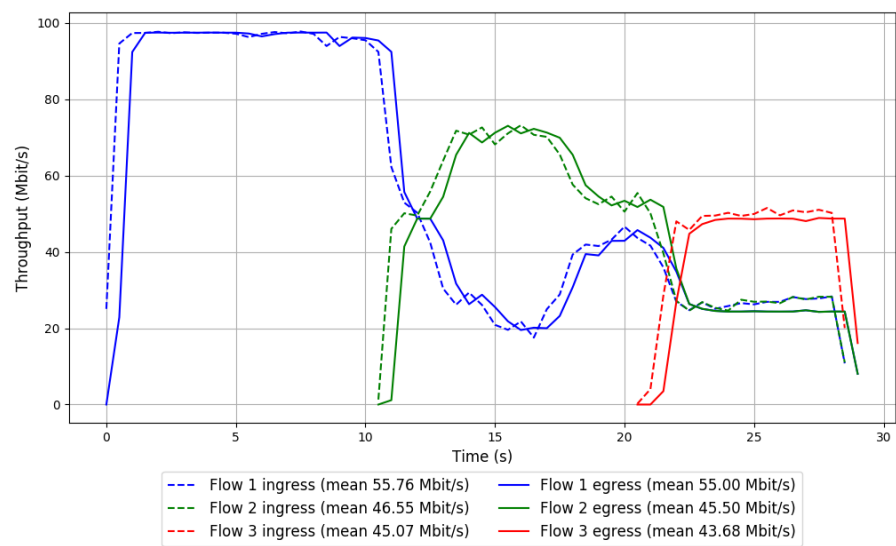


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-12-11 15:55:12  
End at: 2019-12-11 15:55:42  
Local clock offset: 6.072 ms  
Remote clock offset: -6.657 ms

# Below is generated by plot.py at 2019-12-11 17:32:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.25 Mbit/s  
95th percentile per-packet one-way delay: 118.653 ms  
Loss rate: 2.09%  
-- Flow 1:  
Average throughput: 55.00 Mbit/s  
95th percentile per-packet one-way delay: 84.904 ms  
Loss rate: 1.52%  
-- Flow 2:  
Average throughput: 45.50 Mbit/s  
95th percentile per-packet one-way delay: 136.393 ms  
Loss rate: 2.53%  
-- Flow 3:  
Average throughput: 43.68 Mbit/s  
95th percentile per-packet one-way delay: 67.278 ms  
Loss rate: 3.62%

Run 3: Report of Indigo-MusesC5 — Data Link

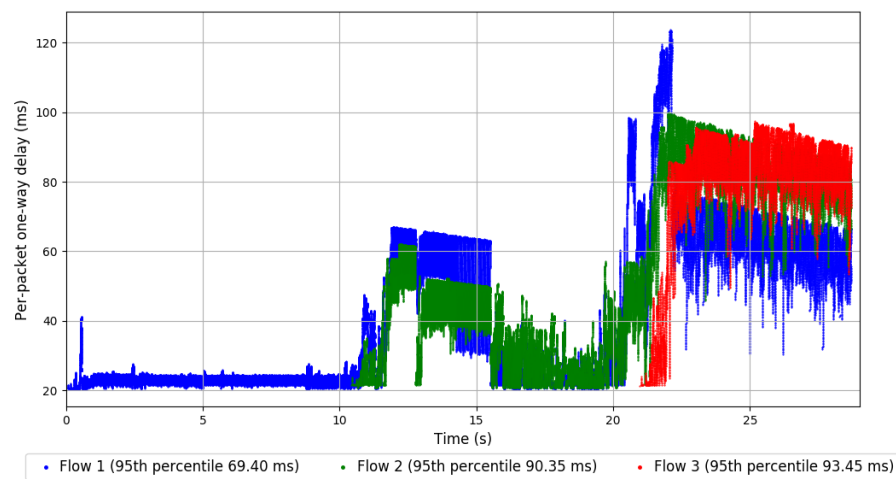
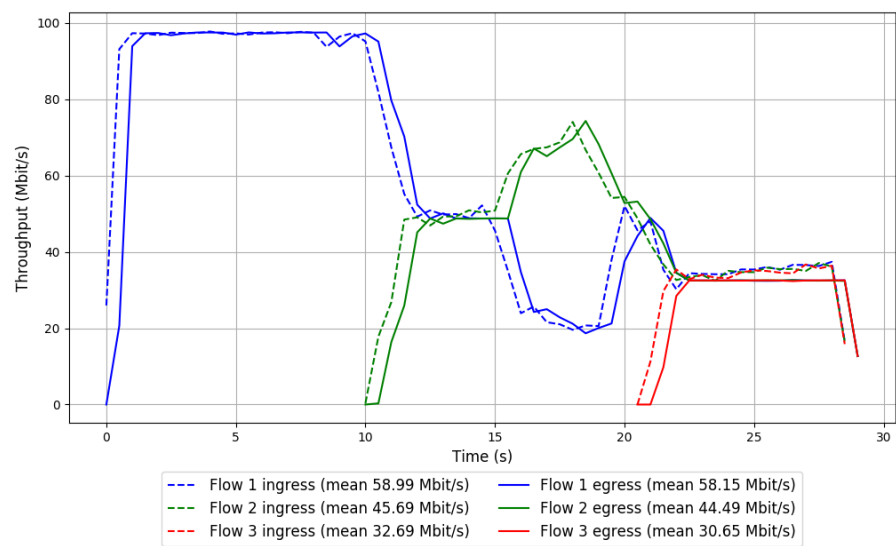


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-12-11 16:25:46  
End at: 2019-12-11 16:26:16  
Local clock offset: 5.775 ms  
Remote clock offset: -7.219 ms

# Below is generated by plot.py at 2019-12-11 17:32:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.76 Mbit/s  
95th percentile per-packet one-way delay: 89.280 ms  
Loss rate: 2.49%  
-- Flow 1:  
Average throughput: 58.15 Mbit/s  
95th percentile per-packet one-way delay: 69.398 ms  
Loss rate: 1.66%  
-- Flow 2:  
Average throughput: 44.49 Mbit/s  
95th percentile per-packet one-way delay: 90.354 ms  
Loss rate: 2.86%  
-- Flow 3:  
Average throughput: 30.65 Mbit/s  
95th percentile per-packet one-way delay: 93.454 ms  
Loss rate: 6.77%

Run 4: Report of Indigo-MusesC5 — Data Link

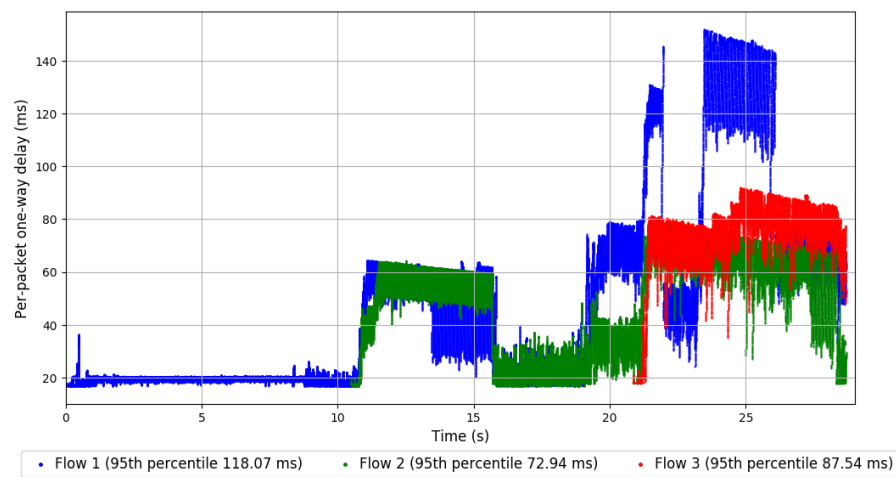
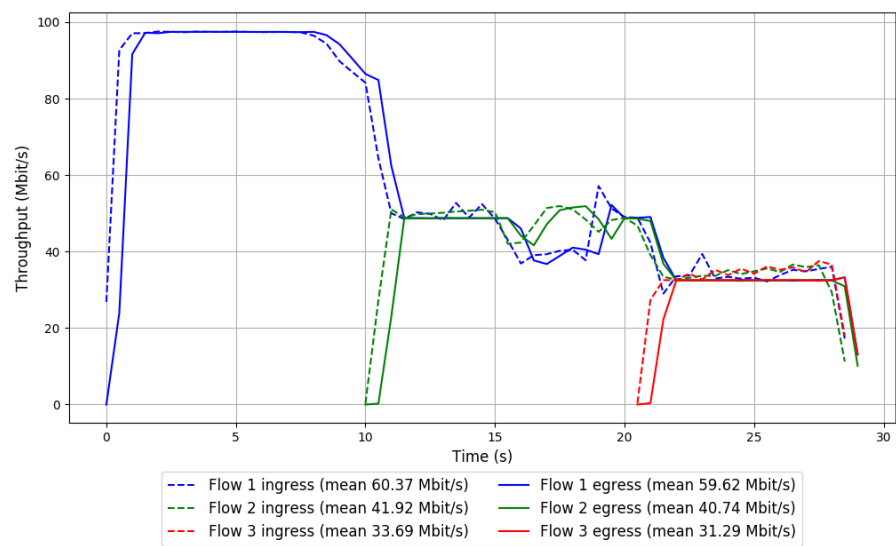


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-12-11 16:56:51  
End at: 2019-12-11 16:57:21  
Local clock offset: 0.477 ms  
Remote clock offset: -5.615 ms

# Below is generated by plot.py at 2019-12-11 17:32:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.12 Mbit/s  
95th percentile per-packet one-way delay: 85.354 ms  
Loss rate: 2.44%  
-- Flow 1:  
Average throughput: 59.62 Mbit/s  
95th percentile per-packet one-way delay: 118.067 ms  
Loss rate: 1.39%  
-- Flow 2:  
Average throughput: 40.74 Mbit/s  
95th percentile per-packet one-way delay: 72.943 ms  
Loss rate: 3.01%  
-- Flow 3:  
Average throughput: 31.29 Mbit/s  
95th percentile per-packet one-way delay: 87.536 ms  
Loss rate: 7.71%

Run 5: Report of Indigo-MusesC5 — Data Link

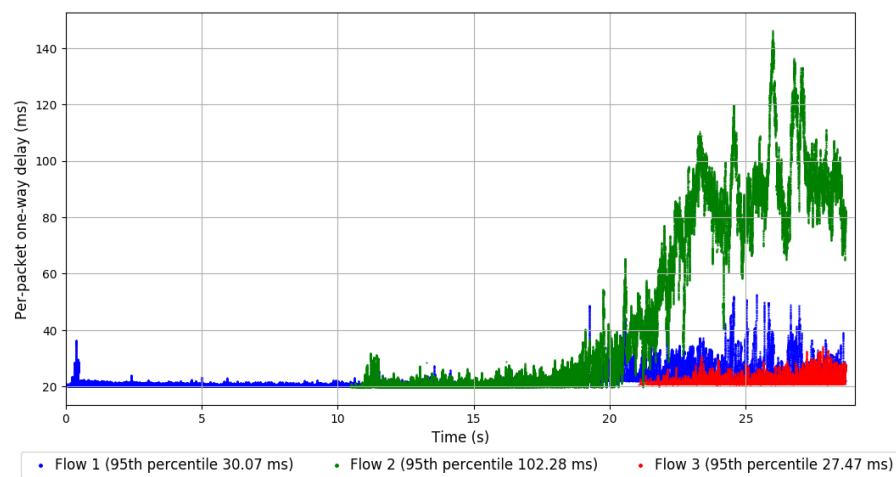
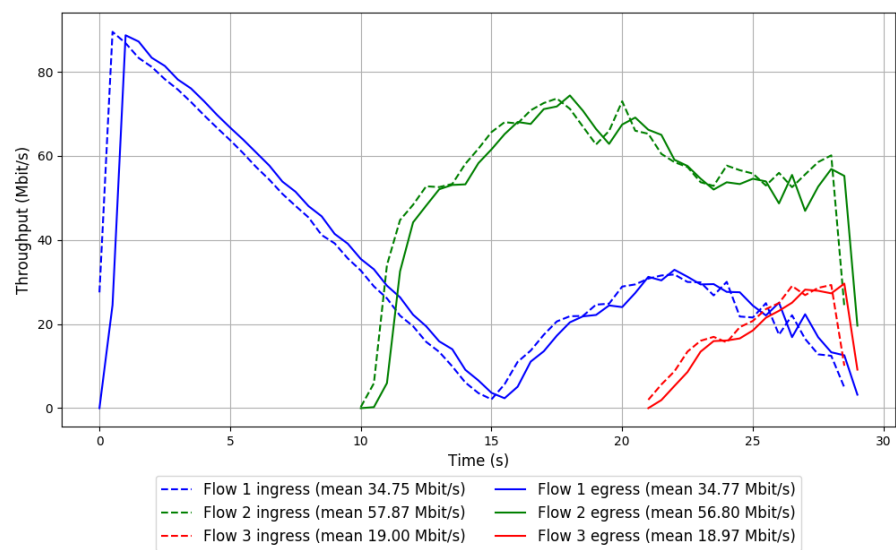


Run 1: Statistics of Indigo-MusesD

Start at: 2019-12-11 15:06:58  
End at: 2019-12-11 15:07:28  
Local clock offset: 4.906 ms  
Remote clock offset: -7.414 ms

# Below is generated by plot.py at 2019-12-11 17:32:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.93 Mbit/s  
95th percentile per-packet one-way delay: 94.302 ms  
Loss rate: 1.12%  
-- Flow 1:  
Average throughput: 34.77 Mbit/s  
95th percentile per-packet one-way delay: 30.073 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 56.80 Mbit/s  
95th percentile per-packet one-way delay: 102.279 ms  
Loss rate: 2.12%  
-- Flow 3:  
Average throughput: 18.97 Mbit/s  
95th percentile per-packet one-way delay: 27.466 ms  
Loss rate: 0.93%

Run 1: Report of Indigo-MusesD — Data Link

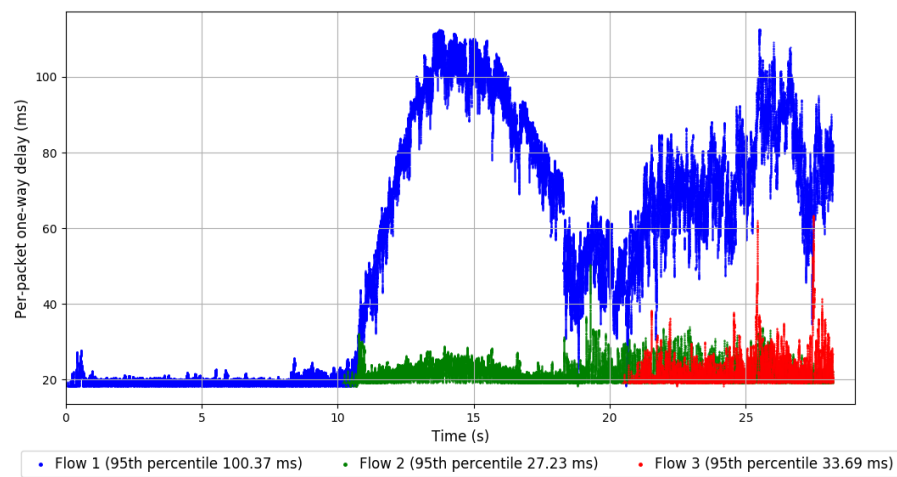
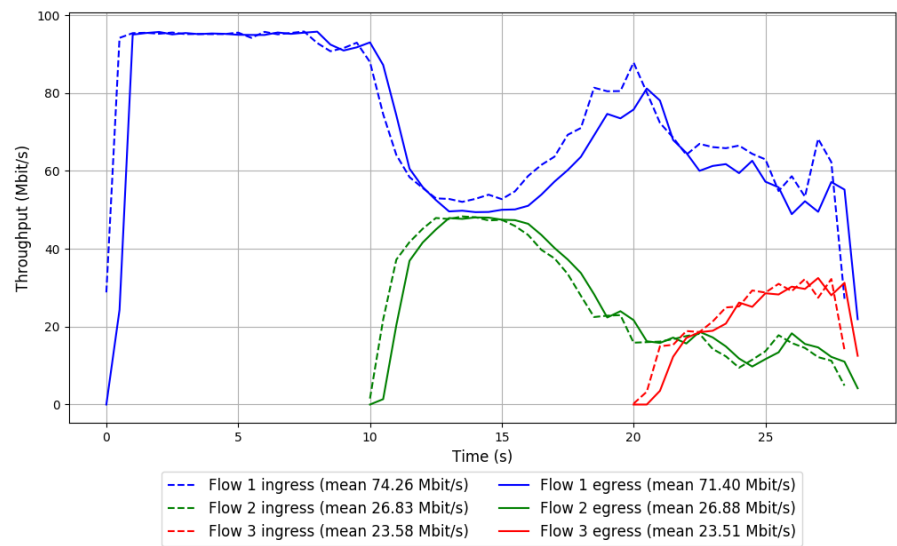


Run 2: Statistics of Indigo-MusesD

Start at: 2019-12-11 15:37:45  
End at: 2019-12-11 15:38:15  
Local clock offset: 3.572 ms  
Remote clock offset: -7.304 ms

# Below is generated by plot.py at 2019-12-11 17:32:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.02 Mbit/s  
95th percentile per-packet one-way delay: 97.709 ms  
Loss rate: 3.16%  
-- Flow 1:  
Average throughput: 71.40 Mbit/s  
95th percentile per-packet one-way delay: 100.369 ms  
Loss rate: 4.06%  
-- Flow 2:  
Average throughput: 26.88 Mbit/s  
95th percentile per-packet one-way delay: 27.235 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 23.51 Mbit/s  
95th percentile per-packet one-way delay: 33.685 ms  
Loss rate: 0.89%

Run 2: Report of Indigo-MusesD — Data Link

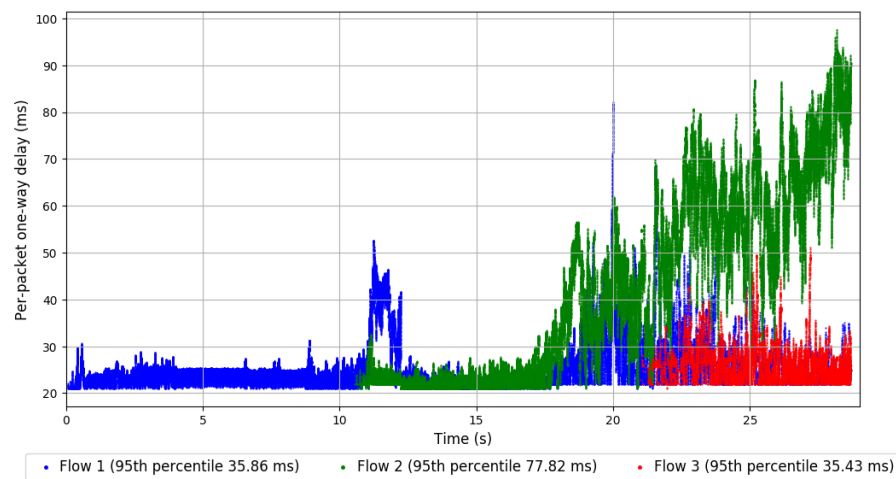
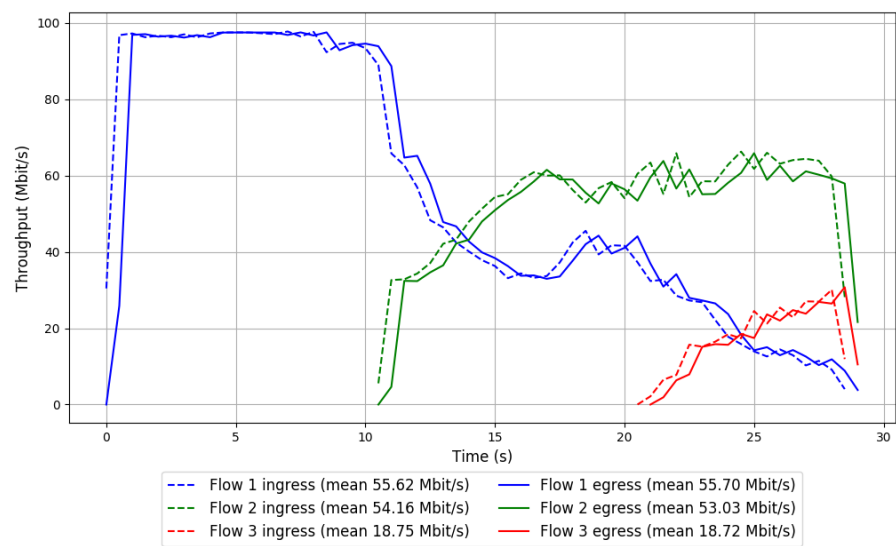


Run 3: Statistics of Indigo-MusesD

Start at: 2019-12-11 16:07:46  
End at: 2019-12-11 16:08:16  
Local clock offset: 6.507 ms  
Remote clock offset: -8.158 ms

# Below is generated by plot.py at 2019-12-11 17:32:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.27 Mbit/s  
95th percentile per-packet one-way delay: 68.012 ms  
Loss rate: 0.91%  
-- Flow 1:  
Average throughput: 55.70 Mbit/s  
95th percentile per-packet one-way delay: 35.862 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 53.03 Mbit/s  
95th percentile per-packet one-way delay: 77.822 ms  
Loss rate: 2.36%  
-- Flow 3:  
Average throughput: 18.72 Mbit/s  
95th percentile per-packet one-way delay: 35.431 ms  
Loss rate: 0.70%

Run 3: Report of Indigo-MusesD — Data Link

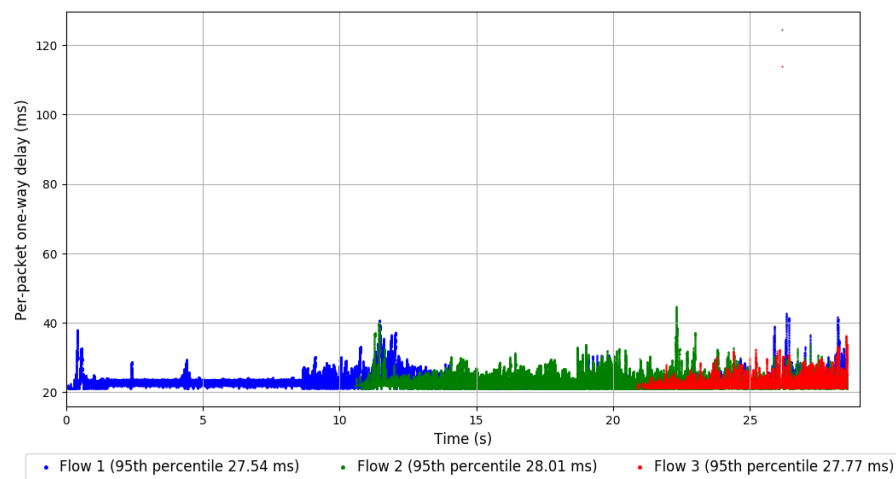
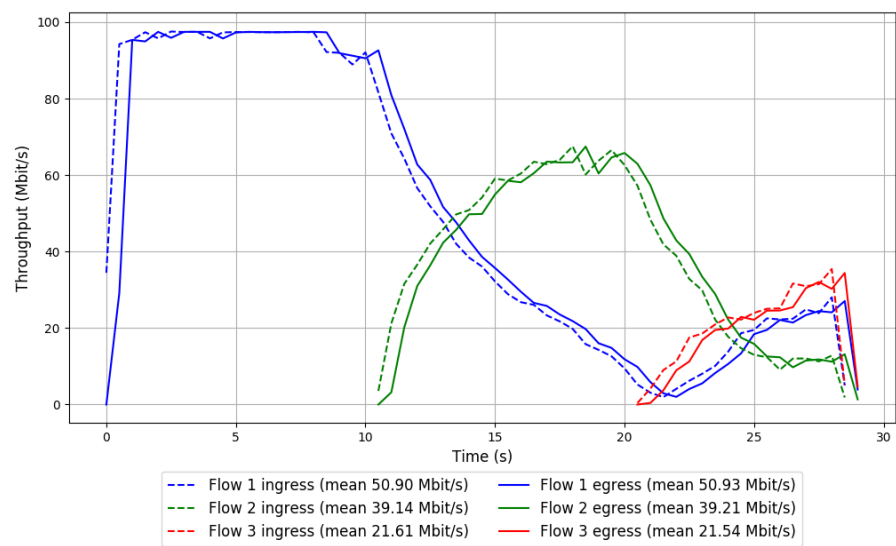


Run 4: Statistics of Indigo-MusesD

Start at: 2019-12-11 16:38:59  
End at: 2019-12-11 16:39:29  
Local clock offset: 6.852 ms  
Remote clock offset: -5.968 ms

# Below is generated by plot.py at 2019-12-11 17:33:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.48 Mbit/s  
95th percentile per-packet one-way delay: 27.755 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 50.93 Mbit/s  
95th percentile per-packet one-way delay: 27.544 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 39.21 Mbit/s  
95th percentile per-packet one-way delay: 28.013 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 21.54 Mbit/s  
95th percentile per-packet one-way delay: 27.771 ms  
Loss rate: 1.11%

Run 4: Report of Indigo-MusesD — Data Link

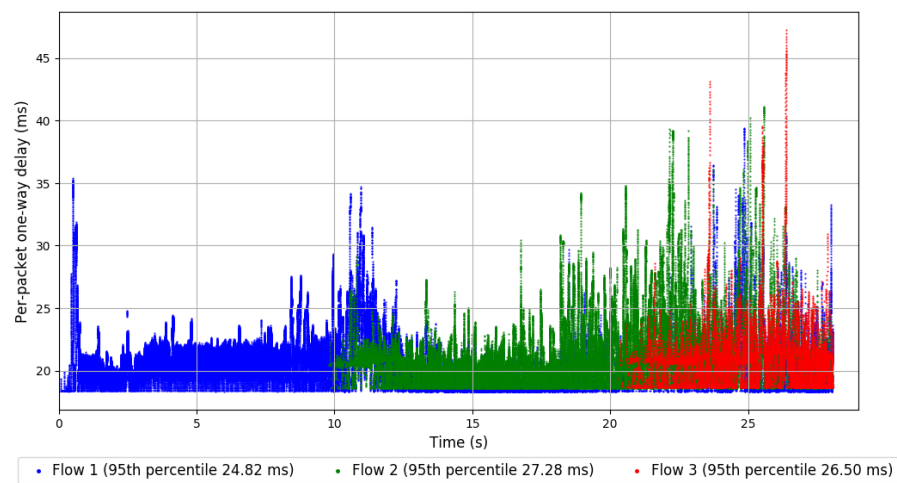
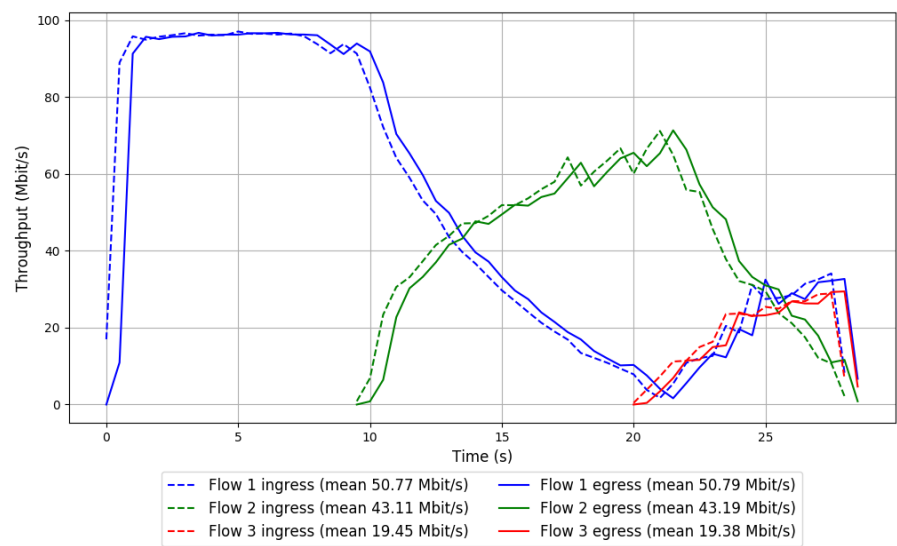


Run 5: Statistics of Indigo-MusesD

Start at: 2019-12-11 17:09:56  
End at: 2019-12-11 17:10:26  
Local clock offset: 3.832 ms  
Remote clock offset: -3.596 ms

# Below is generated by plot.py at 2019-12-11 17:33:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.30 Mbit/s  
95th percentile per-packet one-way delay: 25.940 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 50.79 Mbit/s  
95th percentile per-packet one-way delay: 24.823 ms  
Loss rate: 0.16%  
-- Flow 2:  
Average throughput: 43.19 Mbit/s  
95th percentile per-packet one-way delay: 27.282 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 19.38 Mbit/s  
95th percentile per-packet one-way delay: 26.502 ms  
Loss rate: 1.02%

Run 5: Report of Indigo-MusesD — Data Link

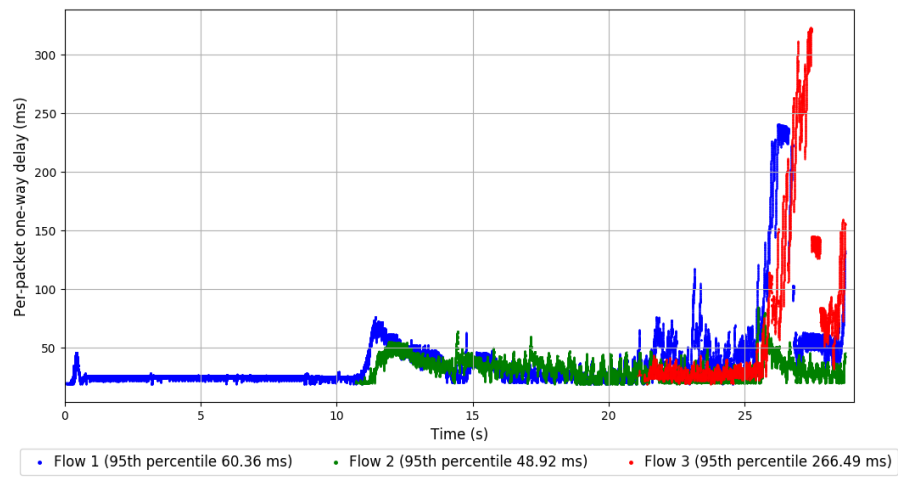
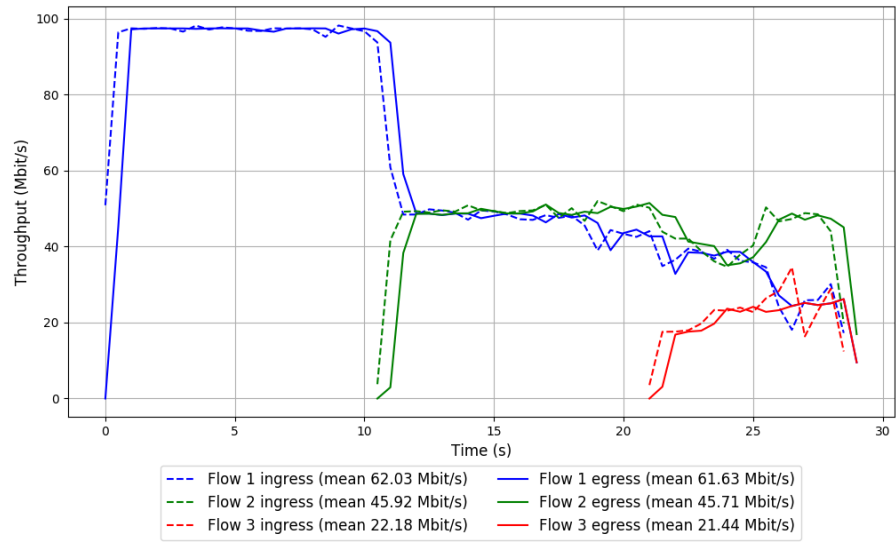


Run 1: Statistics of Indigo-MusesT

Start at: 2019-12-11 15:10:37  
End at: 2019-12-11 15:11:07  
Local clock offset: 3.91 ms  
Remote clock offset: -7.458 ms

# Below is generated by plot.py at 2019-12-11 17:33:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.06 Mbit/s  
95th percentile per-packet one-way delay: 63.595 ms  
Loss rate: 0.94%  
-- Flow 1:  
Average throughput: 61.63 Mbit/s  
95th percentile per-packet one-way delay: 60.363 ms  
Loss rate: 0.76%  
-- Flow 2:  
Average throughput: 45.71 Mbit/s  
95th percentile per-packet one-way delay: 48.921 ms  
Loss rate: 0.74%  
-- Flow 3:  
Average throughput: 21.44 Mbit/s  
95th percentile per-packet one-way delay: 266.489 ms  
Loss rate: 3.74%

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



Run 2: Statistics of Indigo-MusesT

Start at: 2019-12-11 15:41:17

End at: 2019-12-11 15:41:48

Local clock offset: 4.322 ms

Remote clock offset: -8.57 ms

# Below is generated by plot.py at 2019-12-11 17:33:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.61 Mbit/s

95th percentile per-packet one-way delay: 90.306 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 60.63 Mbit/s

95th percentile per-packet one-way delay: 120.609 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 47.02 Mbit/s

95th percentile per-packet one-way delay: 45.742 ms

Loss rate: 0.67%

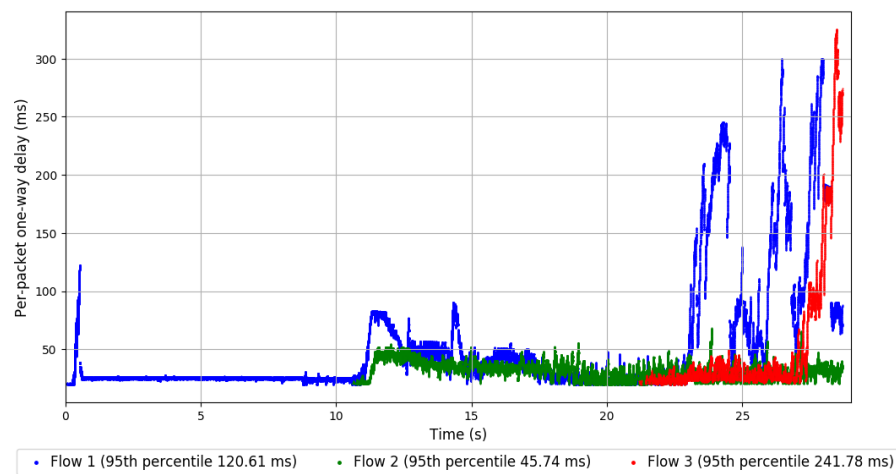
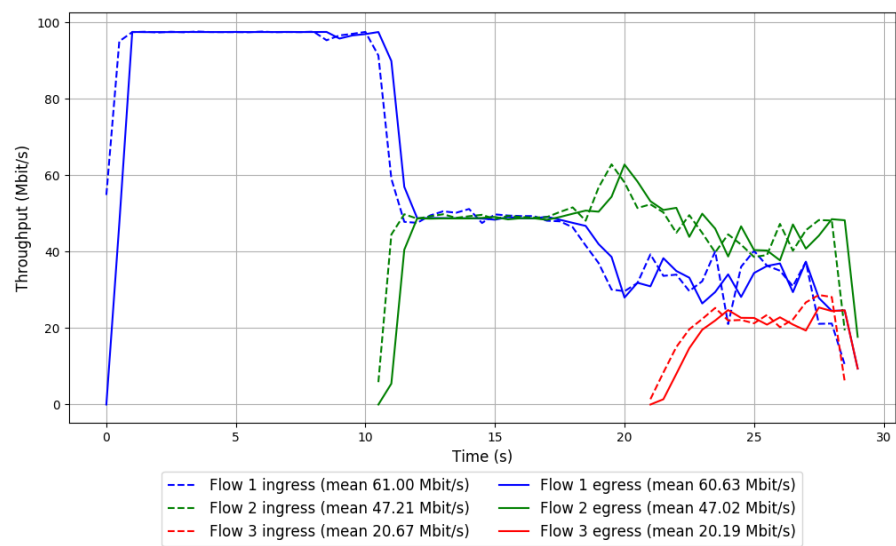
-- Flow 3:

Average throughput: 20.19 Mbit/s

95th percentile per-packet one-way delay: 241.785 ms

Loss rate: 2.97%

Run 2: Report of Indigo-MusesT — Data Link

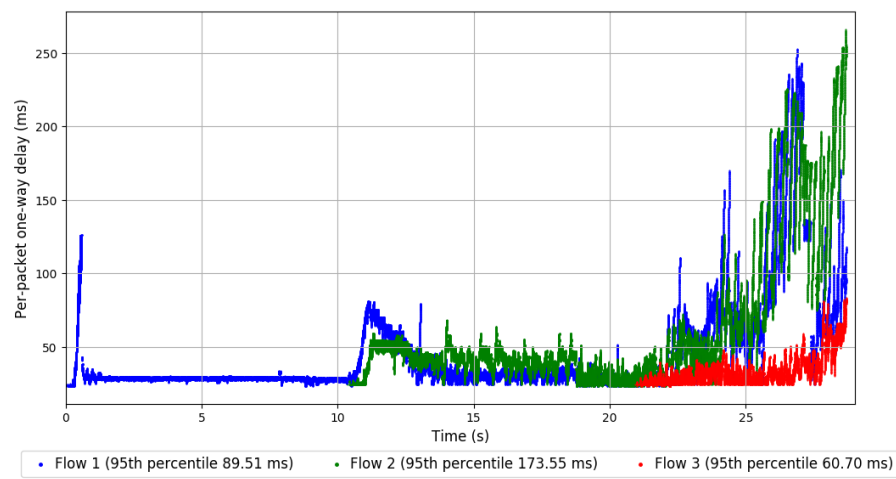
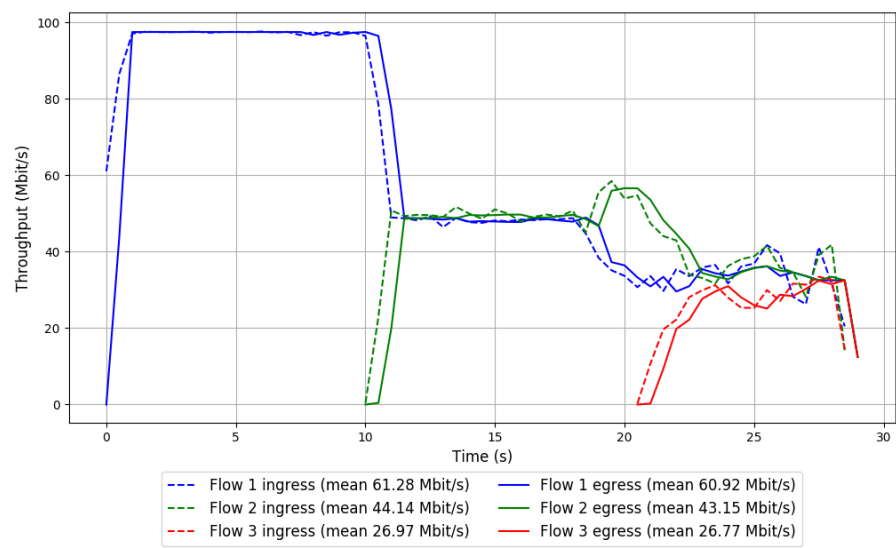


Run 3: Statistics of Indigo-MusesT

Start at: 2019-12-11 16:11:28  
End at: 2019-12-11 16:11:58  
Local clock offset: 4.755 ms  
Remote clock offset: -11.859 ms

# Below is generated by plot.py at 2019-12-11 17:33:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.75 Mbit/s  
95th percentile per-packet one-way delay: 117.386 ms  
Loss rate: 1.25%  
-- Flow 1:  
Average throughput: 60.92 Mbit/s  
95th percentile per-packet one-way delay: 89.506 ms  
Loss rate: 0.76%  
-- Flow 2:  
Average throughput: 43.15 Mbit/s  
95th percentile per-packet one-way delay: 173.550 ms  
Loss rate: 2.27%  
-- Flow 3:  
Average throughput: 26.77 Mbit/s  
95th percentile per-packet one-way delay: 60.697 ms  
Loss rate: 1.40%

Run 3: Report of Indigo-MusesT — Data Link

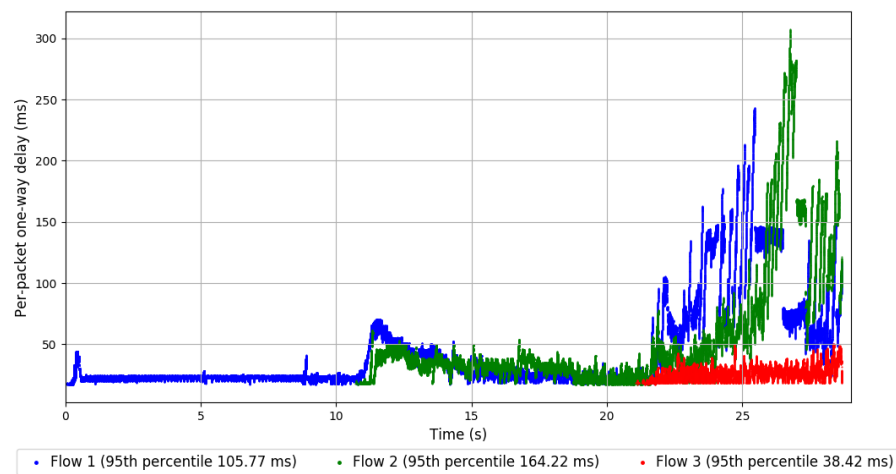
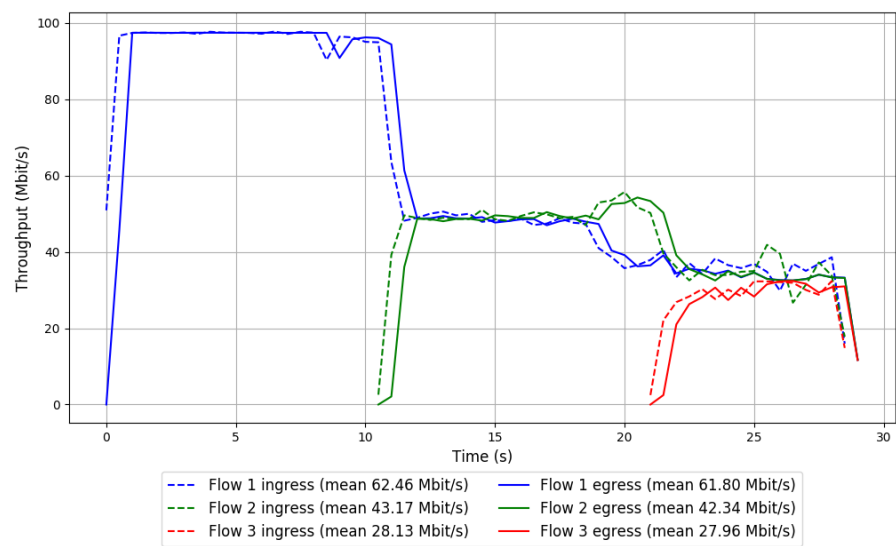


Run 4: Statistics of Indigo-MusesT

Start at: 2019-12-11 16:42:43  
End at: 2019-12-11 16:43:13  
Local clock offset: 3.637 ms  
Remote clock offset: -4.381 ms

# Below is generated by plot.py at 2019-12-11 17:33:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.78 Mbit/s  
95th percentile per-packet one-way delay: 127.968 ms  
Loss rate: 1.36%  
-- Flow 1:  
Average throughput: 61.80 Mbit/s  
95th percentile per-packet one-way delay: 105.768 ms  
Loss rate: 1.19%  
-- Flow 2:  
Average throughput: 42.34 Mbit/s  
95th percentile per-packet one-way delay: 164.220 ms  
Loss rate: 1.78%  
-- Flow 3:  
Average throughput: 27.96 Mbit/s  
95th percentile per-packet one-way delay: 38.419 ms  
Loss rate: 1.22%

Run 4: Report of Indigo-MusesT — Data Link

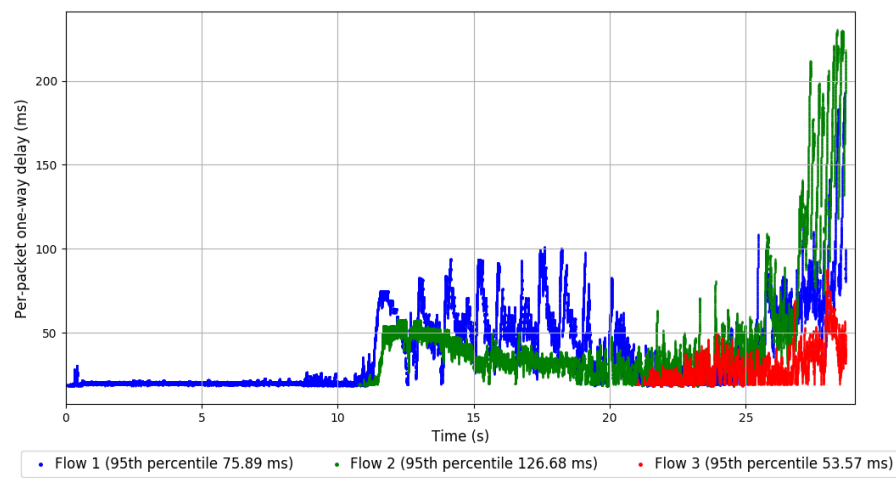
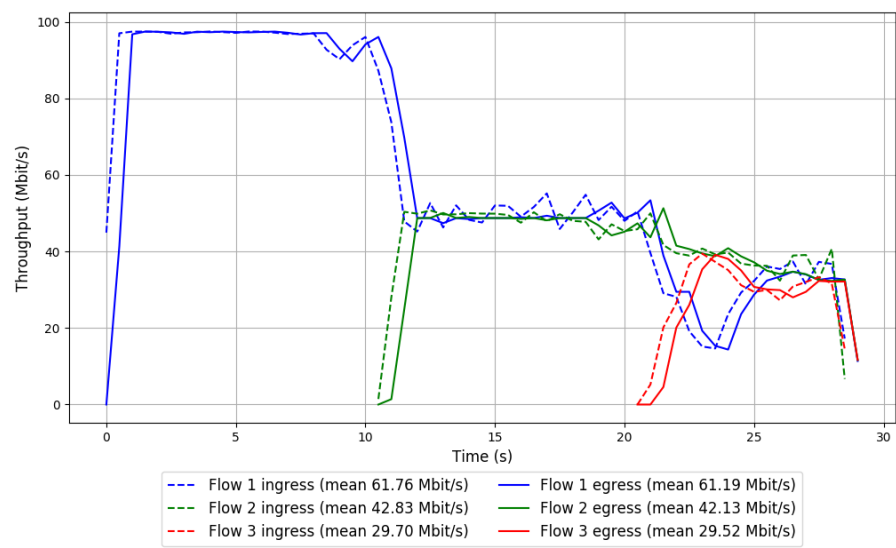


Run 5: Statistics of Indigo-MusesT

Start at: 2019-12-11 17:13:33  
End at: 2019-12-11 17:14:03  
Local clock offset: 4.11 ms  
Remote clock offset: -3.315 ms

# Below is generated by plot.py at 2019-12-11 17:33:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.50 Mbit/s  
95th percentile per-packet one-way delay: 79.168 ms  
Loss rate: 1.33%  
-- Flow 1:  
Average throughput: 61.19 Mbit/s  
95th percentile per-packet one-way delay: 75.893 ms  
Loss rate: 1.09%  
-- Flow 2:  
Average throughput: 42.13 Mbit/s  
95th percentile per-packet one-way delay: 126.680 ms  
Loss rate: 1.91%  
-- Flow 3:  
Average throughput: 29.52 Mbit/s  
95th percentile per-packet one-way delay: 53.571 ms  
Loss rate: 1.24%

Run 5: Report of Indigo-MusesT — Data Link

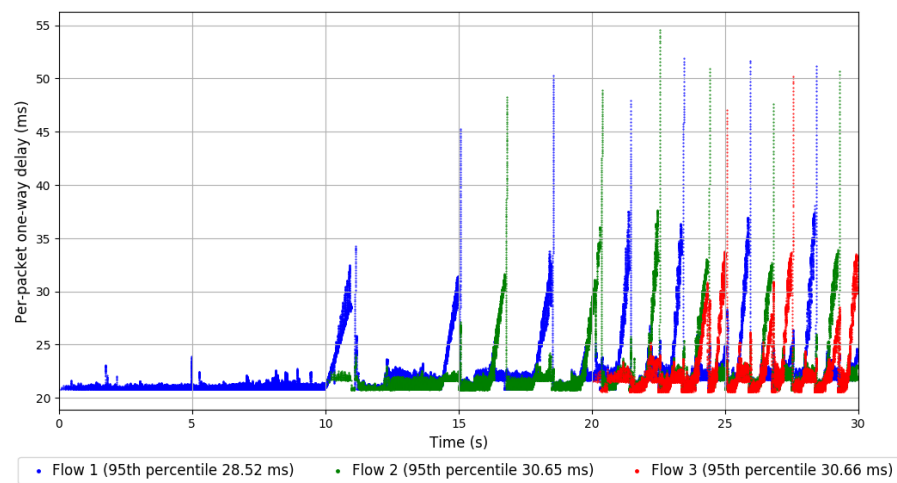
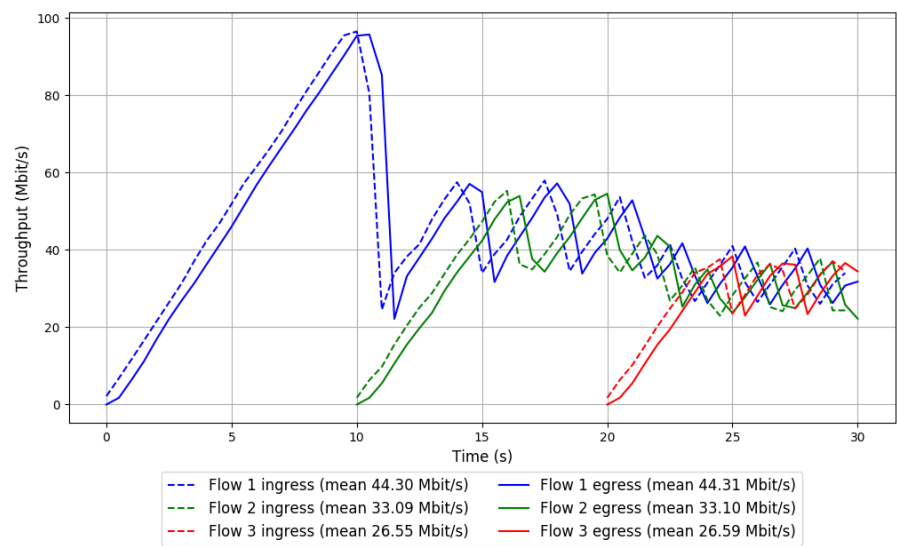


Run 1: Statistics of LEDBAT

Start at: 2019-12-11 15:11:50  
End at: 2019-12-11 15:12:20  
Local clock offset: 4.231 ms  
Remote clock offset: -9.091 ms

# Below is generated by plot.py at 2019-12-11 17:33:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.14 Mbit/s  
95th percentile per-packet one-way delay: 29.619 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 44.31 Mbit/s  
95th percentile per-packet one-way delay: 28.518 ms  
Loss rate: 0.15%  
-- Flow 2:  
Average throughput: 33.10 Mbit/s  
95th percentile per-packet one-way delay: 30.653 ms  
Loss rate: 0.22%  
-- Flow 3:  
Average throughput: 26.59 Mbit/s  
95th percentile per-packet one-way delay: 30.664 ms  
Loss rate: 0.39%

Run 1: Report of LEDBAT — Data Link

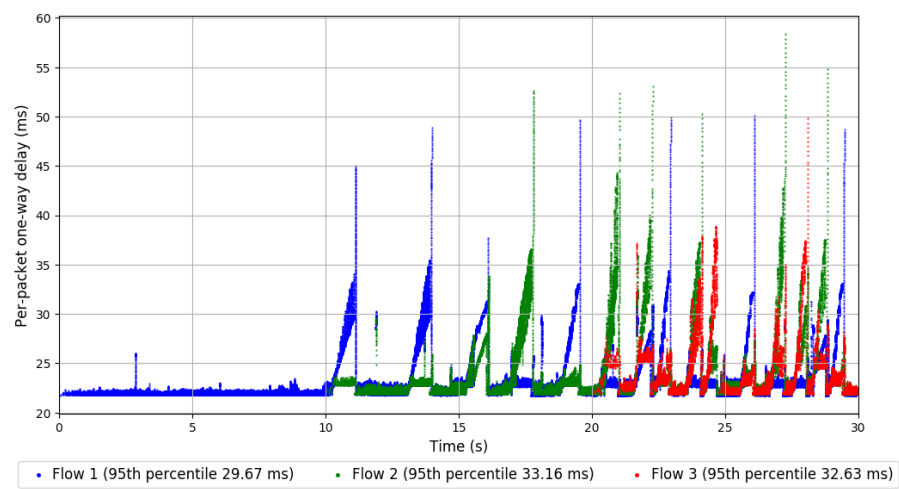
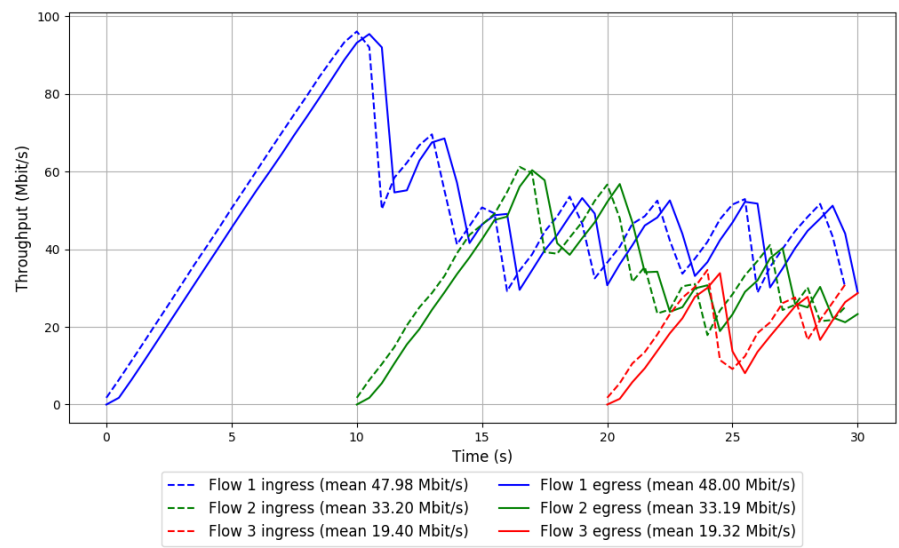


Run 2: Statistics of LEDBAT

Start at: 2019-12-11 15:42:37  
End at: 2019-12-11 15:43:07  
Local clock offset: 4.664 ms  
Remote clock offset: -10.433 ms

# Below is generated by plot.py at 2019-12-11 17:34:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.50 Mbit/s  
95th percentile per-packet one-way delay: 30.839 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 48.00 Mbit/s  
95th percentile per-packet one-way delay: 29.667 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 33.19 Mbit/s  
95th percentile per-packet one-way delay: 33.162 ms  
Loss rate: 0.23%  
-- Flow 3:  
Average throughput: 19.32 Mbit/s  
95th percentile per-packet one-way delay: 32.631 ms  
Loss rate: 0.92%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-12-11 16:12:47

End at: 2019-12-11 16:13:17

Local clock offset: 1.437 ms

Remote clock offset: -9.02 ms

# Below is generated by plot.py at 2019-12-11 17:34:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 76.89 Mbit/s

95th percentile per-packet one-way delay: 26.033 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 43.69 Mbit/s

95th percentile per-packet one-way delay: 25.257 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 33.95 Mbit/s

95th percentile per-packet one-way delay: 29.006 ms

Loss rate: 0.21%

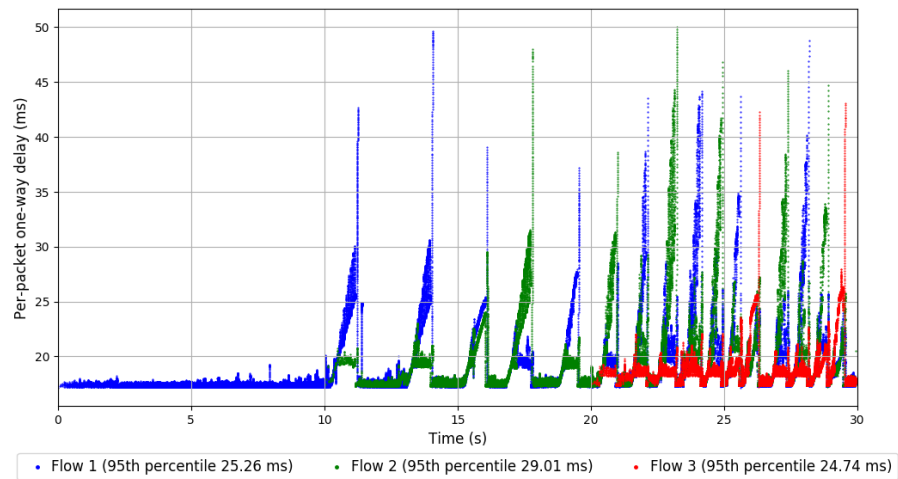
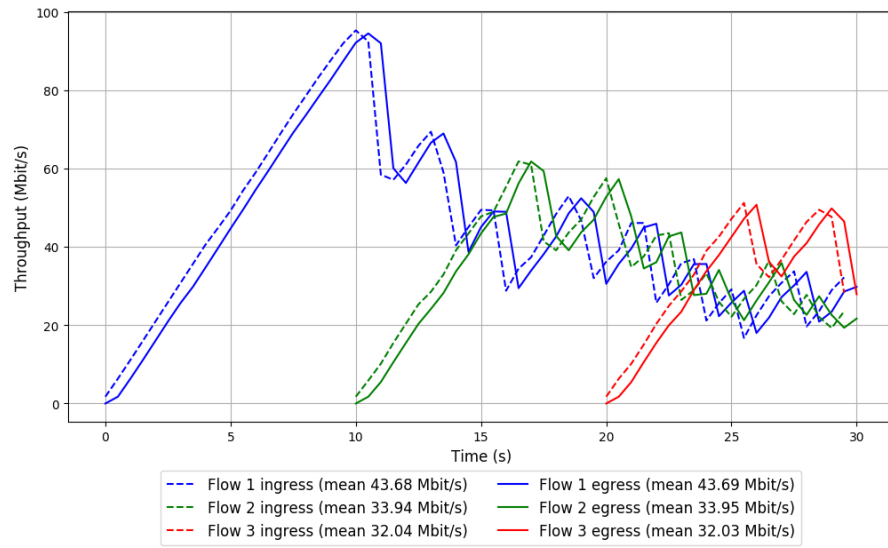
-- Flow 3:

Average throughput: 32.03 Mbit/s

95th percentile per-packet one-way delay: 24.742 ms

Loss rate: 0.53%

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

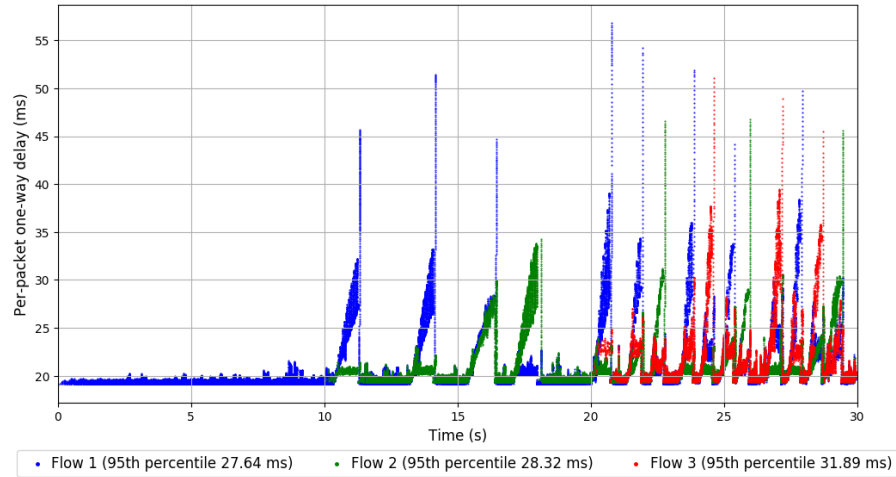
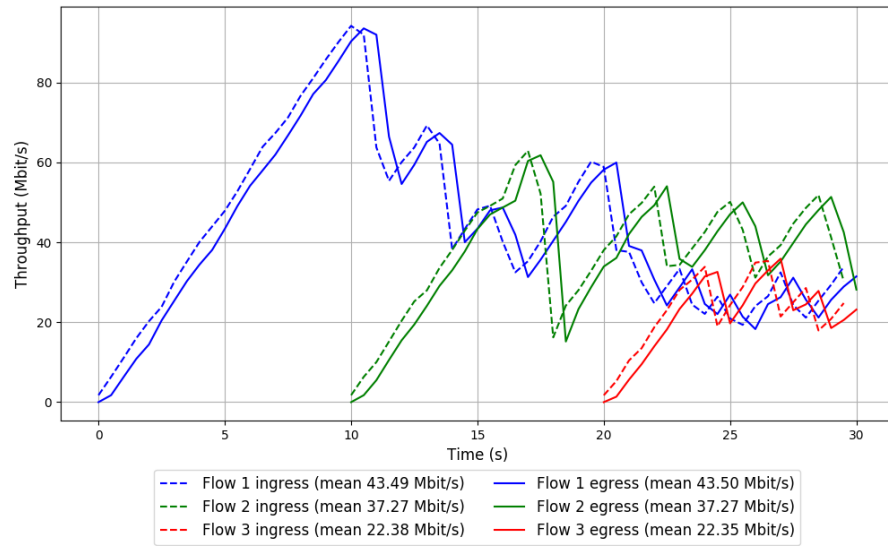


Run 4: Statistics of LEDBAT

Start at: 2019-12-11 16:44:01  
End at: 2019-12-11 16:44:31  
Local clock offset: 5.3 ms  
Remote clock offset: -4.538 ms

# Below is generated by plot.py at 2019-12-11 17:34:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.72 Mbit/s  
95th percentile per-packet one-way delay: 28.234 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 43.50 Mbit/s  
95th percentile per-packet one-way delay: 27.644 ms  
Loss rate: 0.15%  
-- Flow 2:  
Average throughput: 37.27 Mbit/s  
95th percentile per-packet one-way delay: 28.320 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 22.35 Mbit/s  
95th percentile per-packet one-way delay: 31.889 ms  
Loss rate: 0.65%

# Run 4: Report of LEDBAT — Data Link

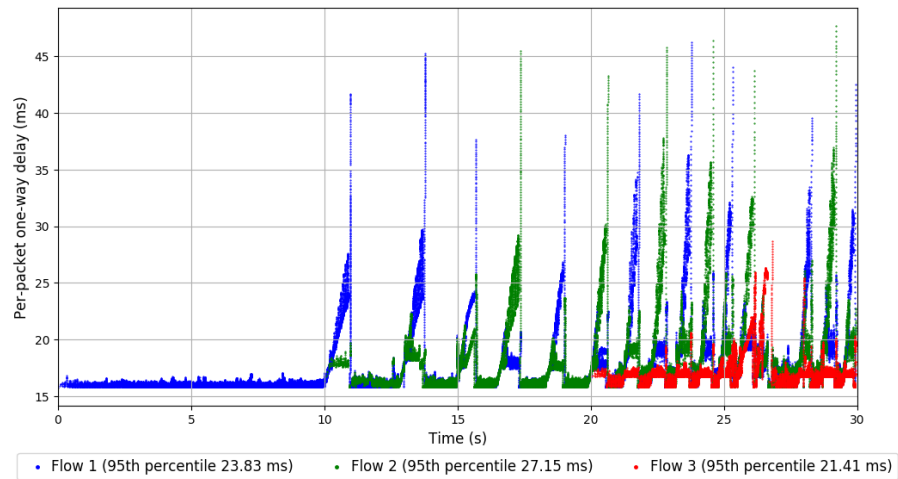
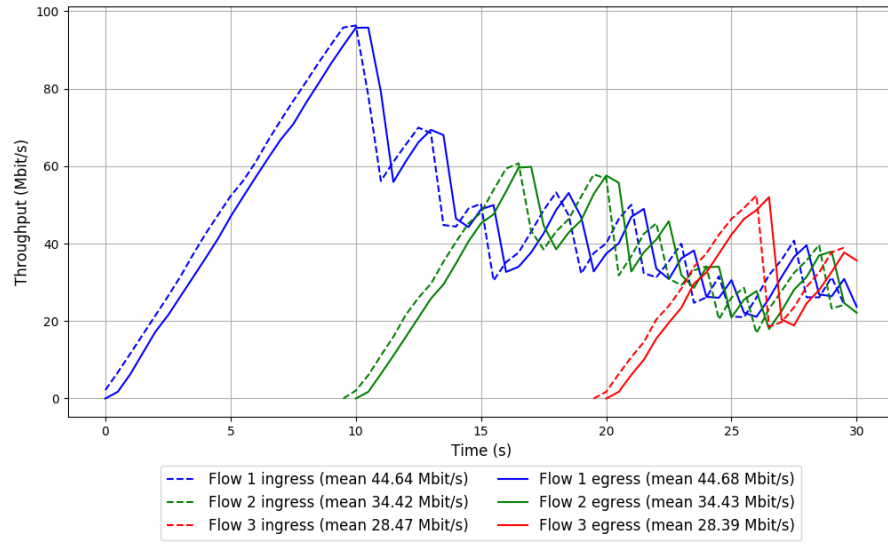


Run 5: Statistics of LEDBAT

Start at: 2019-12-11 17:14:47  
End at: 2019-12-11 17:15:17  
Local clock offset: -0.083 ms  
Remote clock offset: -5.002 ms

# Below is generated by plot.py at 2019-12-11 17:34:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.02 Mbit/s  
95th percentile per-packet one-way delay: 24.728 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 44.68 Mbit/s  
95th percentile per-packet one-way delay: 23.828 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 34.43 Mbit/s  
95th percentile per-packet one-way delay: 27.148 ms  
Loss rate: 0.22%  
-- Flow 3:  
Average throughput: 28.39 Mbit/s  
95th percentile per-packet one-way delay: 21.410 ms  
Loss rate: 0.81%

## Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-12-11 14:52:43

End at: 2019-12-11 14:53:13

Local clock offset: -0.137 ms

Remote clock offset: -9.15 ms

# Below is generated by plot.py at 2019-12-11 17:34:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 73.13 Mbit/s

95th percentile per-packet one-way delay: 22.412 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 50.35 Mbit/s

95th percentile per-packet one-way delay: 21.002 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 26.33 Mbit/s

95th percentile per-packet one-way delay: 21.983 ms

Loss rate: 0.09%

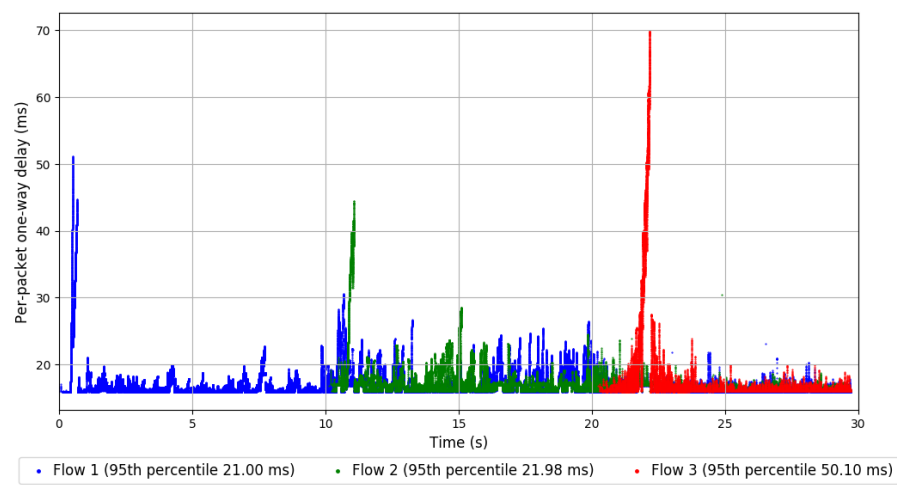
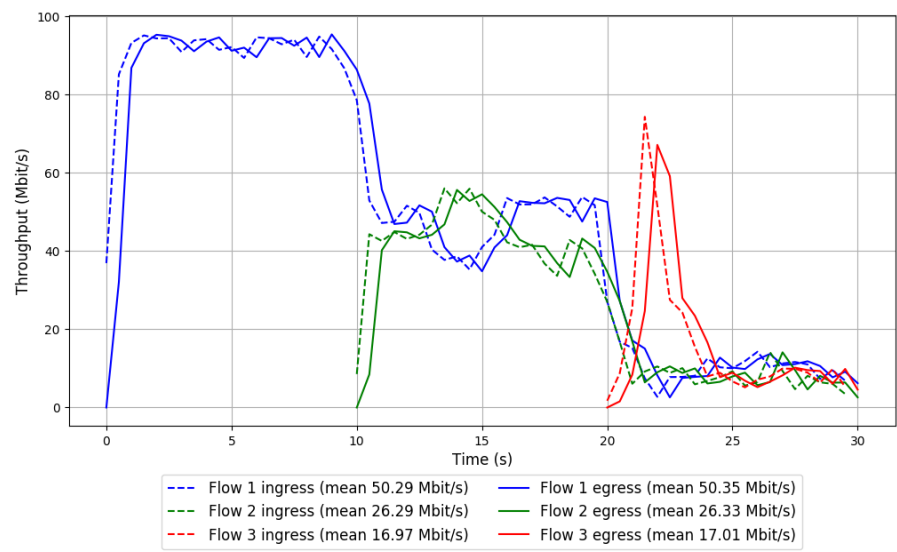
-- Flow 3:

Average throughput: 17.01 Mbit/s

95th percentile per-packet one-way delay: 50.104 ms

Loss rate: 0.33%

Run 1: Report of Muses\_DecisionTree — Data Link

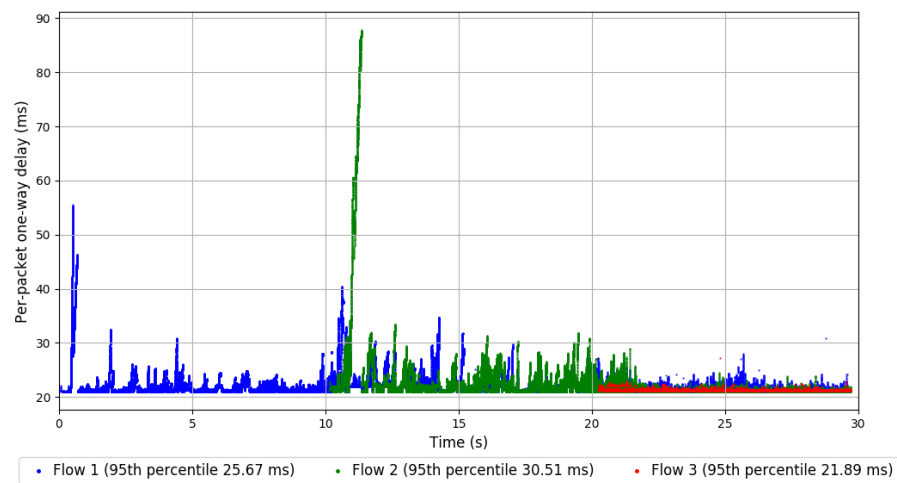
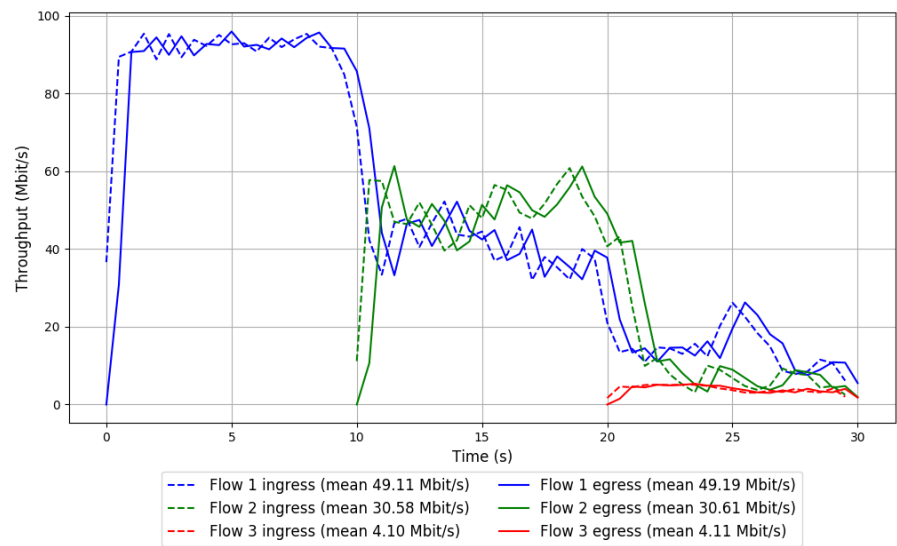


Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-12-11 15:23:23  
End at: 2019-12-11 15:23:53  
Local clock offset: 4.84 ms  
Remote clock offset: -8.836 ms

# Below is generated by plot.py at 2019-12-11 17:34:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 70.66 Mbit/s  
95th percentile per-packet one-way delay: 27.201 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 49.19 Mbit/s  
95th percentile per-packet one-way delay: 25.668 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 30.61 Mbit/s  
95th percentile per-packet one-way delay: 30.507 ms  
Loss rate: 0.17%  
-- Flow 3:  
Average throughput: 4.11 Mbit/s  
95th percentile per-packet one-way delay: 21.891 ms  
Loss rate: 0.51%

Run 2: Report of Muses\_DecisionTree — Data Link

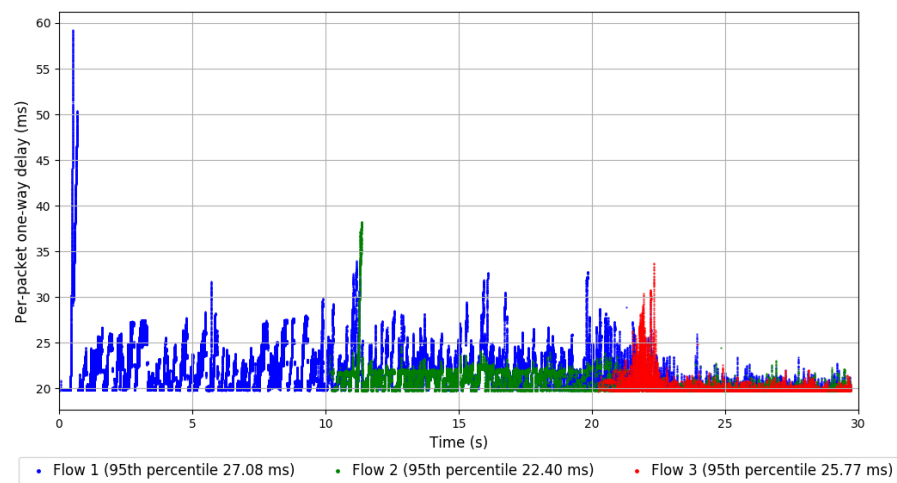
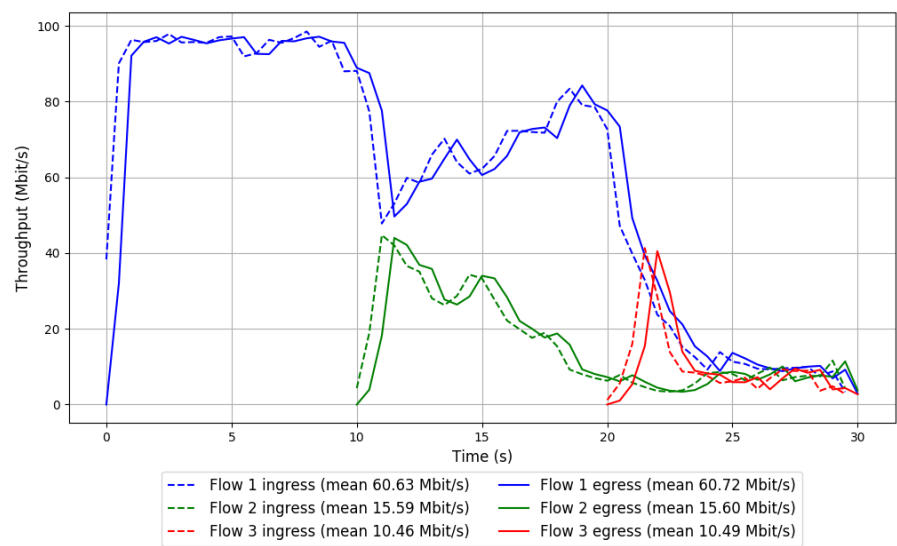


Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-12-11 15:53:59  
End at: 2019-12-11 15:54:29  
Local clock offset: 6.089 ms  
Remote clock offset: -7.358 ms

# Below is generated by plot.py at 2019-12-11 17:34:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.37 Mbit/s  
95th percentile per-packet one-way delay: 26.904 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 60.72 Mbit/s  
95th percentile per-packet one-way delay: 27.077 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 15.60 Mbit/s  
95th percentile per-packet one-way delay: 22.397 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 10.49 Mbit/s  
95th percentile per-packet one-way delay: 25.767 ms  
Loss rate: 0.29%

Run 3: Report of Muses\_DecisionTree — Data Link

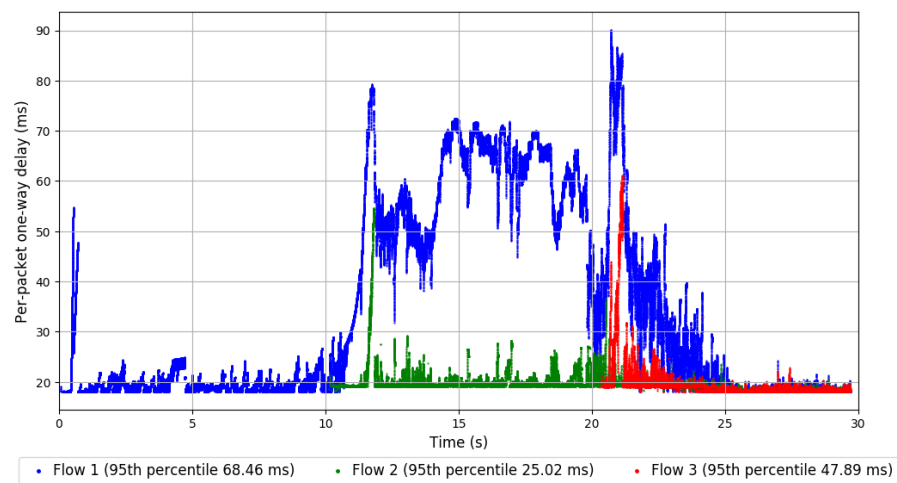
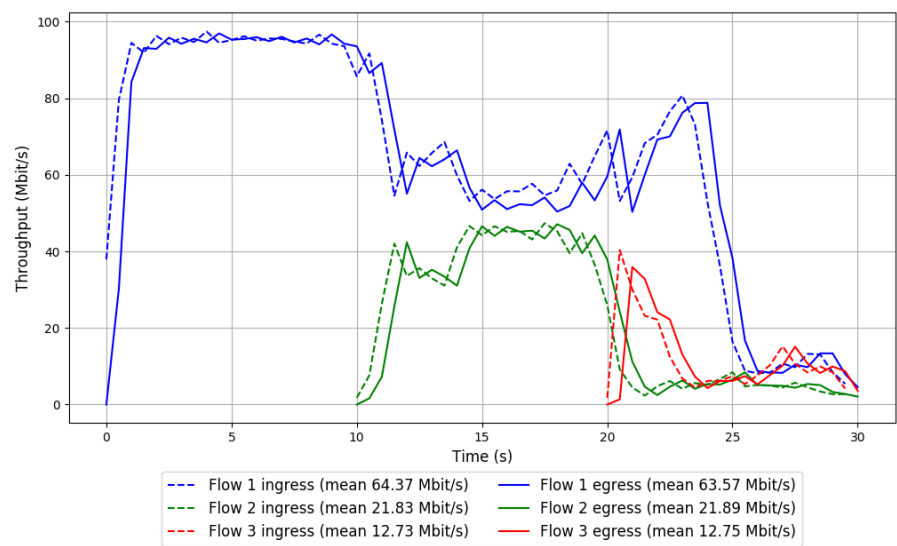


Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-12-11 16:24:30  
End at: 2019-12-11 16:25:00  
Local clock offset: 3.541 ms  
Remote clock offset: -7.198 ms

# Below is generated by plot.py at 2019-12-11 17:34:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.01 Mbit/s  
95th percentile per-packet one-way delay: 67.270 ms  
Loss rate: 1.15%  
-- Flow 1:  
Average throughput: 63.57 Mbit/s  
95th percentile per-packet one-way delay: 68.462 ms  
Loss rate: 1.44%  
-- Flow 2:  
Average throughput: 21.89 Mbit/s  
95th percentile per-packet one-way delay: 25.018 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 12.75 Mbit/s  
95th percentile per-packet one-way delay: 47.887 ms  
Loss rate: 0.33%

Run 4: Report of Muses\_DecisionTree — Data Link

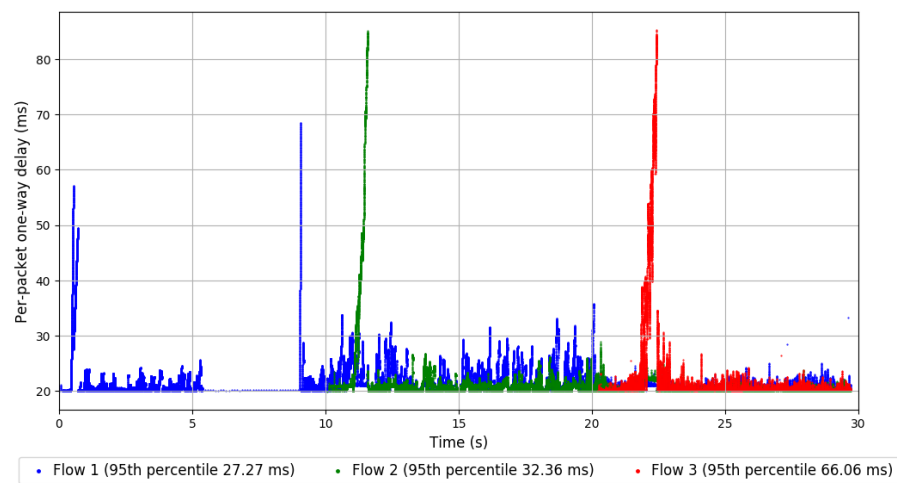
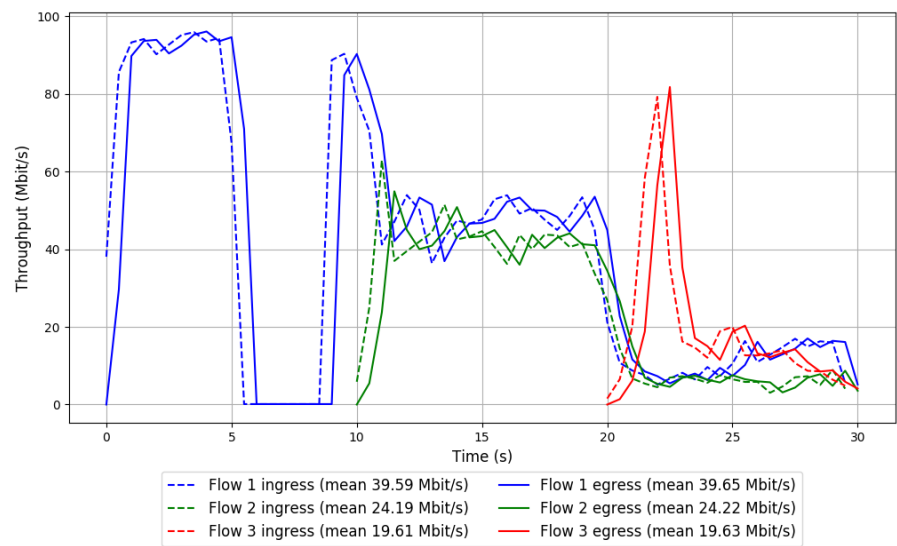


Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-12-11 16:55:39  
End at: 2019-12-11 16:56:09  
Local clock offset: 4.544 ms  
Remote clock offset: -4.826 ms

# Below is generated by plot.py at 2019-12-11 17:35:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 61.94 Mbit/s  
95th percentile per-packet one-way delay: 31.339 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 39.65 Mbit/s  
95th percentile per-packet one-way delay: 27.266 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 24.22 Mbit/s  
95th percentile per-packet one-way delay: 32.358 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 19.63 Mbit/s  
95th percentile per-packet one-way delay: 66.055 ms  
Loss rate: 0.37%

Run 5: Report of Muses\_DecisionTree — Data Link

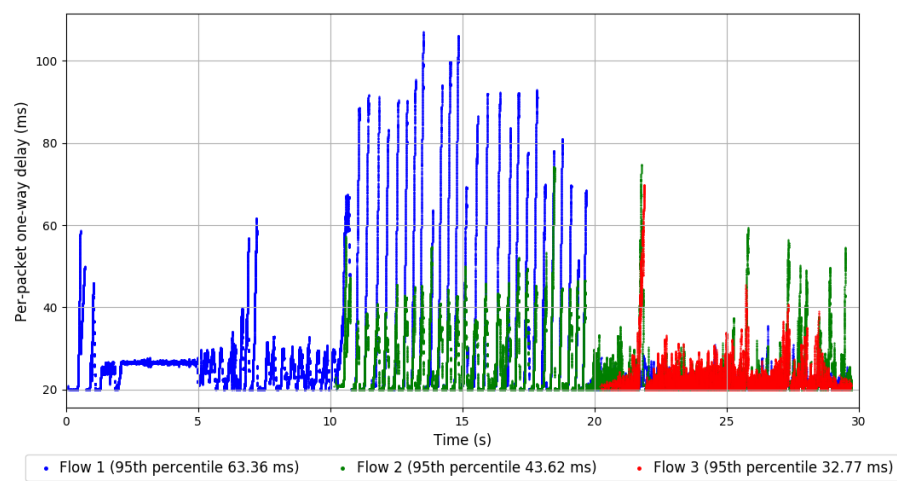
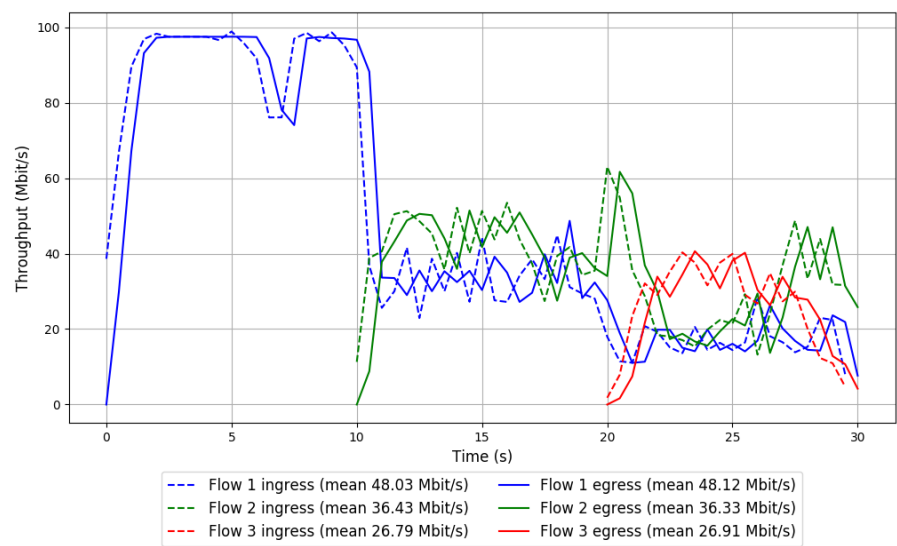


Run 1: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-12-11 15:19:33  
End at: 2019-12-11 15:20:03  
Local clock offset: 3.447 ms  
Remote clock offset: -9.178 ms

# Below is generated by plot.py at 2019-12-11 17:35:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.64 Mbit/s  
95th percentile per-packet one-way delay: 53.672 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 48.12 Mbit/s  
95th percentile per-packet one-way delay: 63.360 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 36.33 Mbit/s  
95th percentile per-packet one-way delay: 43.615 ms  
Loss rate: 0.54%  
-- Flow 3:  
Average throughput: 26.91 Mbit/s  
95th percentile per-packet one-way delay: 32.770 ms  
Loss rate: 0.21%

Run 1: Report of Muses\_DecisionTreeH0 — Data Link

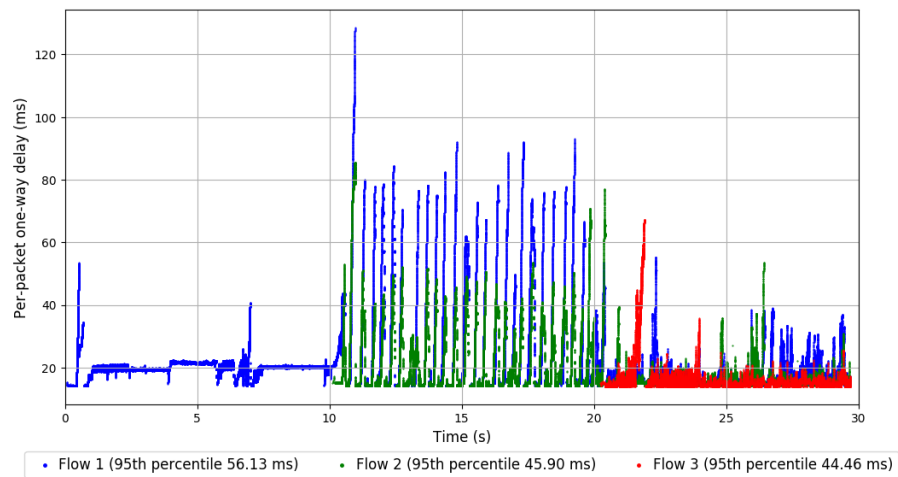
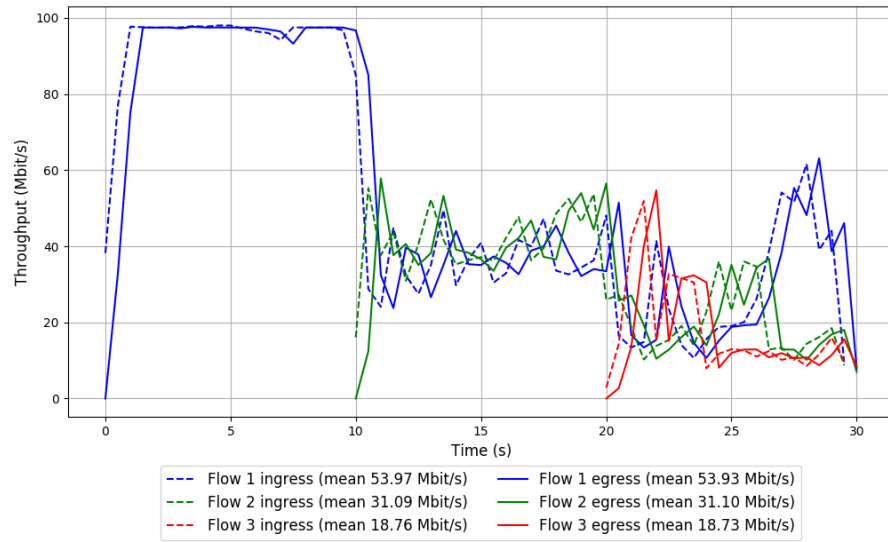


Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-12-11 15:50:21  
End at: 2019-12-11 15:50:51  
Local clock offset: 1.663 ms  
Remote clock offset: -6.313 ms

# Below is generated by plot.py at 2019-12-11 17:35:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.42 Mbit/s  
95th percentile per-packet one-way delay: 51.142 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 53.93 Mbit/s  
95th percentile per-packet one-way delay: 56.130 ms  
Loss rate: 0.25%  
-- Flow 2:  
Average throughput: 31.10 Mbit/s  
95th percentile per-packet one-way delay: 45.904 ms  
Loss rate: 0.23%  
-- Flow 3:  
Average throughput: 18.73 Mbit/s  
95th percentile per-packet one-way delay: 44.459 ms  
Loss rate: 0.63%

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



Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-12-11 16:20:49

End at: 2019-12-11 16:21:19

Local clock offset: 6.493 ms

Remote clock offset: -5.54 ms

# Below is generated by plot.py at 2019-12-11 17:35:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 81.01 Mbit/s

95th percentile per-packet one-way delay: 50.090 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 49.69 Mbit/s

95th percentile per-packet one-way delay: 59.356 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 36.72 Mbit/s

95th percentile per-packet one-way delay: 48.099 ms

Loss rate: 0.29%

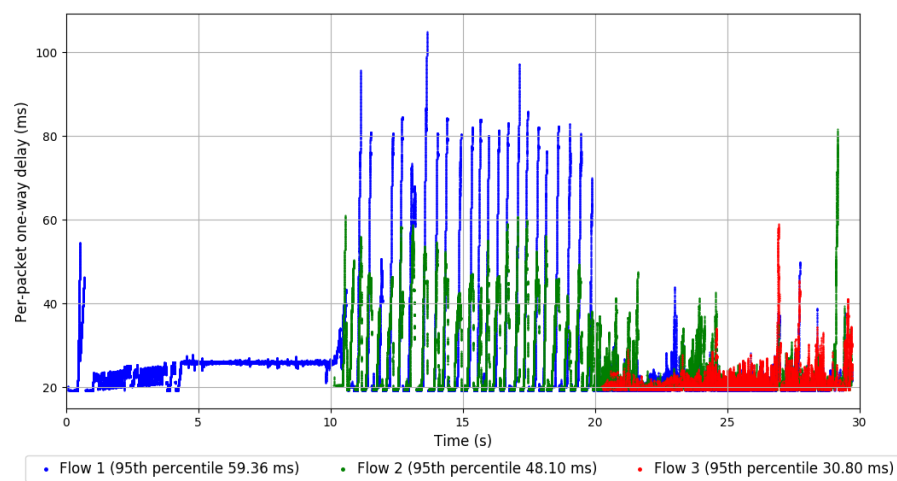
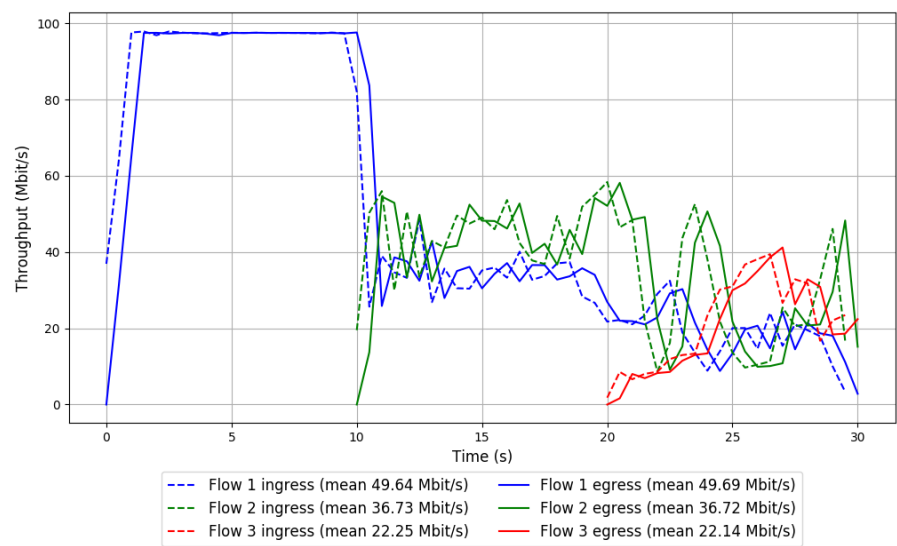
-- Flow 3:

Average throughput: 22.14 Mbit/s

95th percentile per-packet one-way delay: 30.797 ms

Loss rate: 1.06%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link

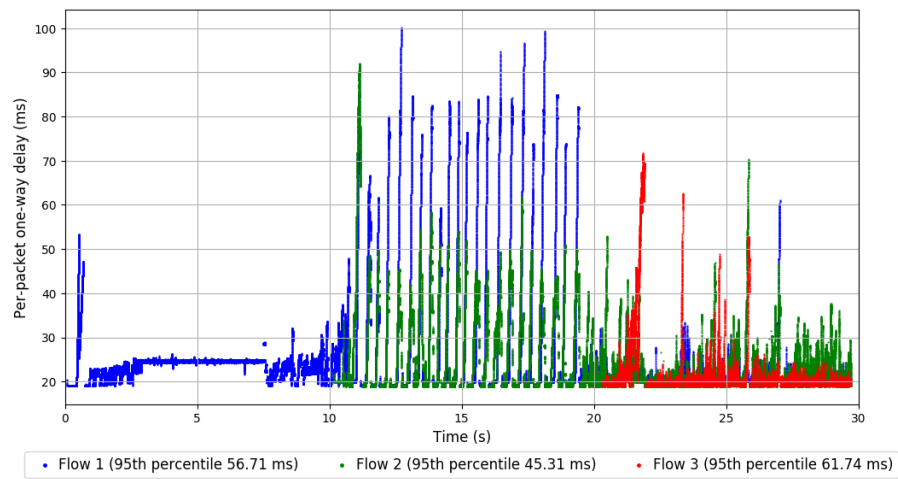
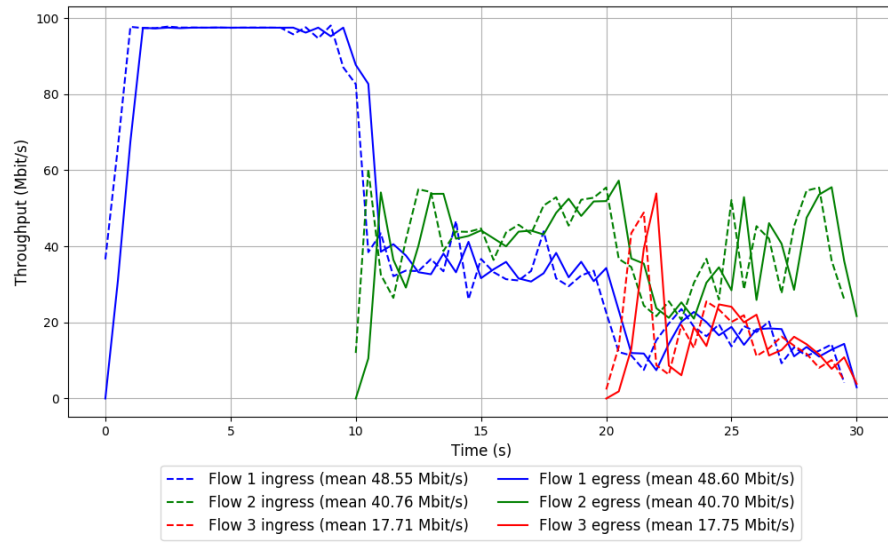


Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-12-11 16:52:02  
End at: 2019-12-11 16:52:32  
Local clock offset: 4.298 ms  
Remote clock offset: -4.343 ms

# Below is generated by plot.py at 2019-12-11 17:35:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.10 Mbit/s  
95th percentile per-packet one-way delay: 50.939 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 48.60 Mbit/s  
95th percentile per-packet one-way delay: 56.711 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 40.70 Mbit/s  
95th percentile per-packet one-way delay: 45.311 ms  
Loss rate: 0.40%  
-- Flow 3:  
Average throughput: 17.75 Mbit/s  
95th percentile per-packet one-way delay: 61.736 ms  
Loss rate: 0.32%

Run 4: Report of Muses\_DecisionTreeH0 — Data Link

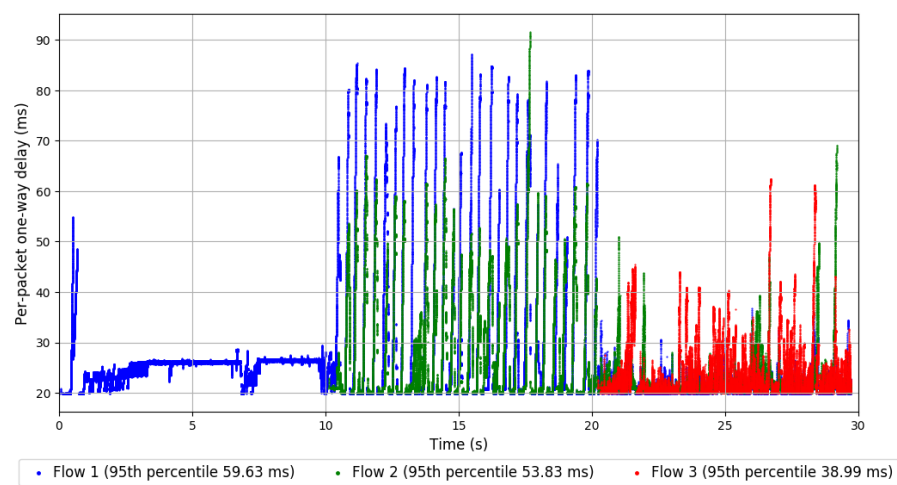
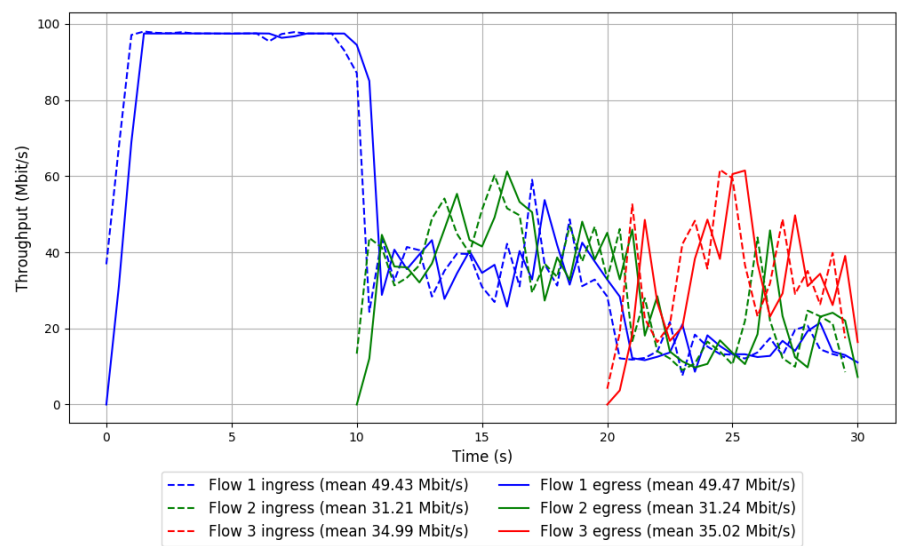


Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-12-11 17:22:38  
End at: 2019-12-11 17:23:08  
Local clock offset: 3.559 ms  
Remote clock offset: -5.542 ms

# Below is generated by plot.py at 2019-12-11 17:35:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.34 Mbit/s  
95th percentile per-packet one-way delay: 54.211 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 49.47 Mbit/s  
95th percentile per-packet one-way delay: 59.628 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 31.24 Mbit/s  
95th percentile per-packet one-way delay: 53.828 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 35.02 Mbit/s  
95th percentile per-packet one-way delay: 38.987 ms  
Loss rate: 0.45%

Run 5: Report of Muses\_DecisionTreeH0 — Data Link

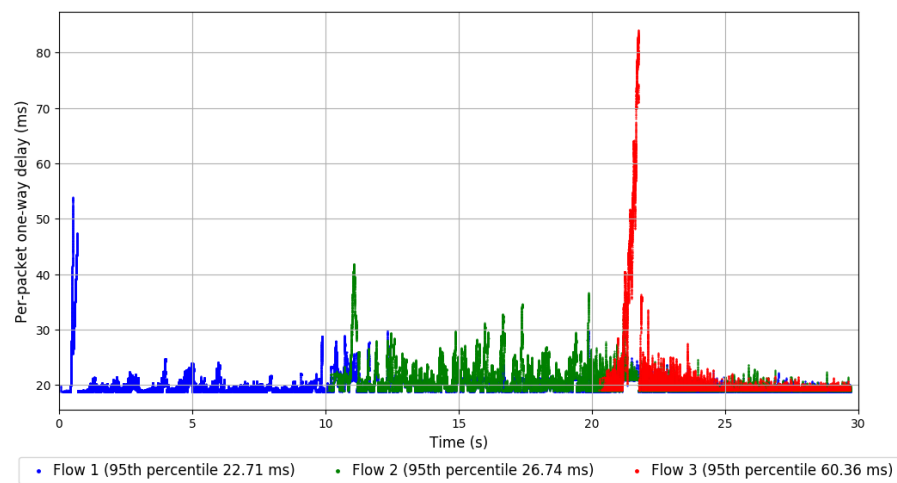
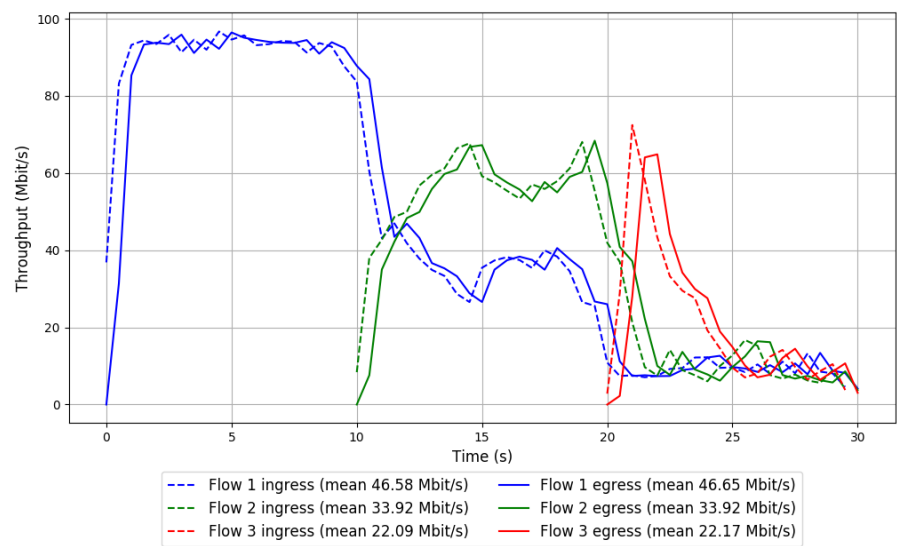


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-12-11 14:50:23
End at: 2019-12-11 14:50:53
Local clock offset: 2.398 ms
Remote clock offset: -9.732 ms

# Below is generated by plot.py at 2019-12-11 17:35:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.12 Mbit/s
95th percentile per-packet one-way delay: 26.401 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 46.65 Mbit/s
95th percentile per-packet one-way delay: 22.709 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 33.92 Mbit/s
95th percentile per-packet one-way delay: 26.737 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 22.17 Mbit/s
95th percentile per-packet one-way delay: 60.356 ms
Loss rate: 0.31%
```

Run 1: Report of Muses\_DecisionTreeR0 — Data Link

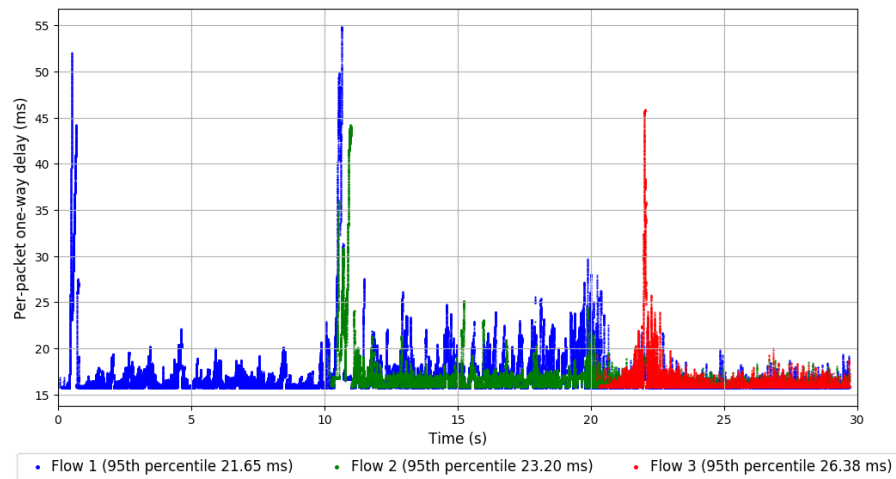
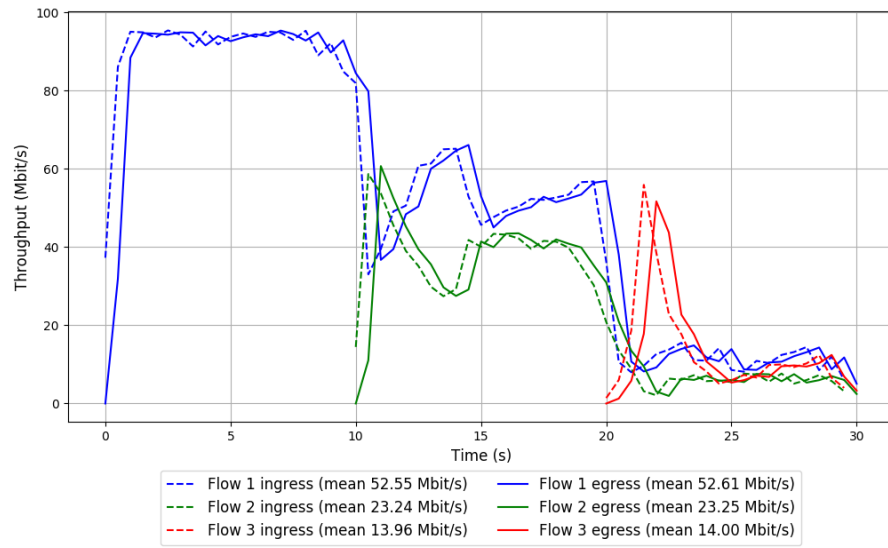


Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-12-11 15:20:51  
End at: 2019-12-11 15:21:21  
Local clock offset: -0.266 ms  
Remote clock offset: -8.662 ms

# Below is generated by plot.py at 2019-12-11 17:35:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 72.44 Mbit/s  
95th percentile per-packet one-way delay: 22.032 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 52.61 Mbit/s  
95th percentile per-packet one-way delay: 21.653 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 23.25 Mbit/s  
95th percentile per-packet one-way delay: 23.197 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 14.00 Mbit/s  
95th percentile per-packet one-way delay: 26.377 ms  
Loss rate: 0.29%

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

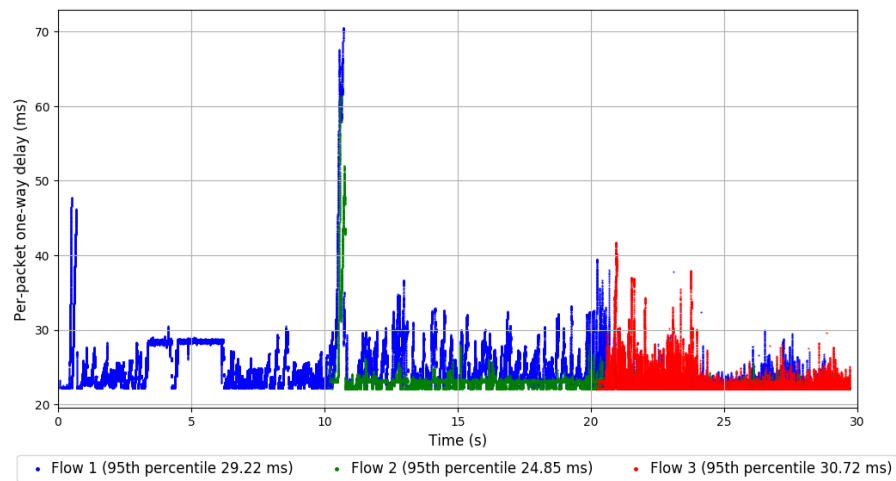
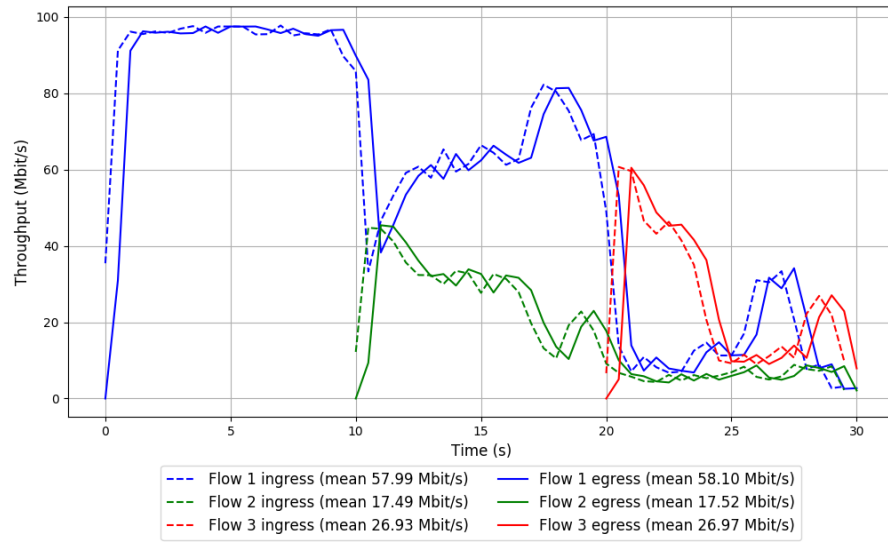


Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-12-11 15:51:36  
End at: 2019-12-11 15:52:06  
Local clock offset: 5.24 ms  
Remote clock offset: -10.698 ms

# Below is generated by plot.py at 2019-12-11 17:36:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.26 Mbit/s  
95th percentile per-packet one-way delay: 29.222 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 58.10 Mbit/s  
95th percentile per-packet one-way delay: 29.220 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 17.52 Mbit/s  
95th percentile per-packet one-way delay: 24.852 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 26.97 Mbit/s  
95th percentile per-packet one-way delay: 30.717 ms  
Loss rate: 0.43%

### Run 3: Report of Muses\_DecisionTreeR0 — Data Link

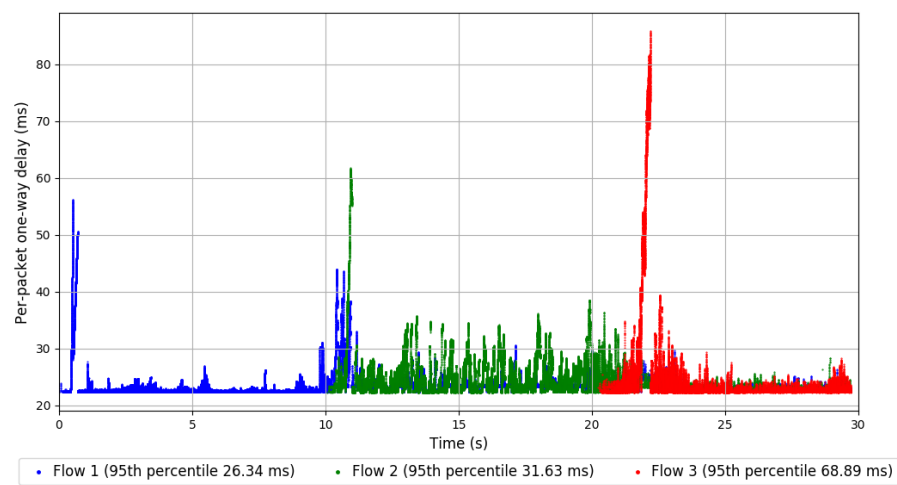
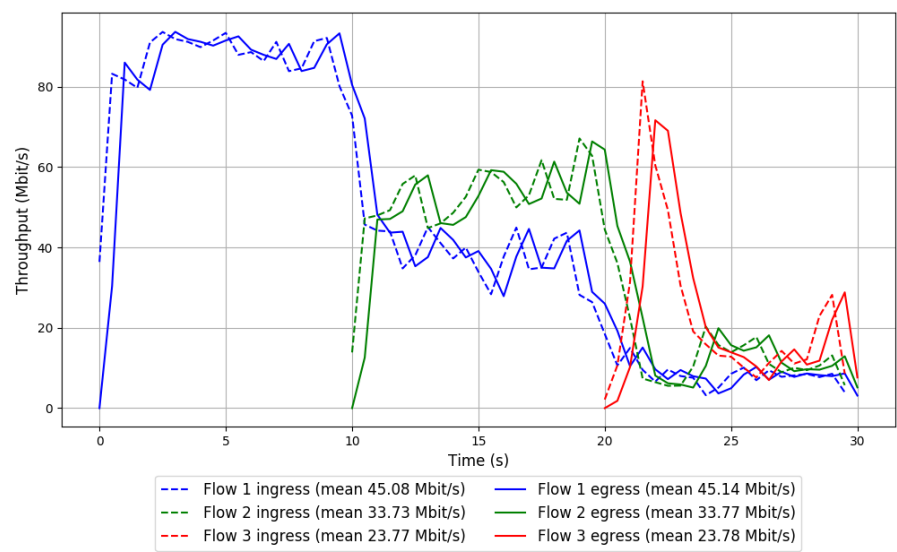


Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-12-11 16:22:06  
End at: 2019-12-11 16:22:36  
Local clock offset: 6.181 ms  
Remote clock offset: -8.851 ms

# Below is generated by plot.py at 2019-12-11 17:36:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.06 Mbit/s  
95th percentile per-packet one-way delay: 30.868 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 45.14 Mbit/s  
95th percentile per-packet one-way delay: 26.336 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 33.77 Mbit/s  
95th percentile per-packet one-way delay: 31.630 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 23.78 Mbit/s  
95th percentile per-packet one-way delay: 68.886 ms  
Loss rate: 0.49%

Run 4: Report of Muses\_DecisionTreeR0 — Data Link

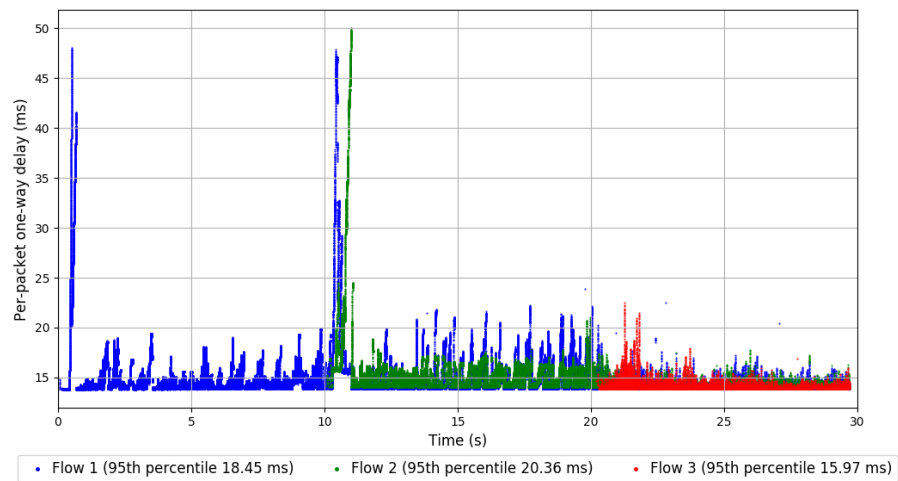
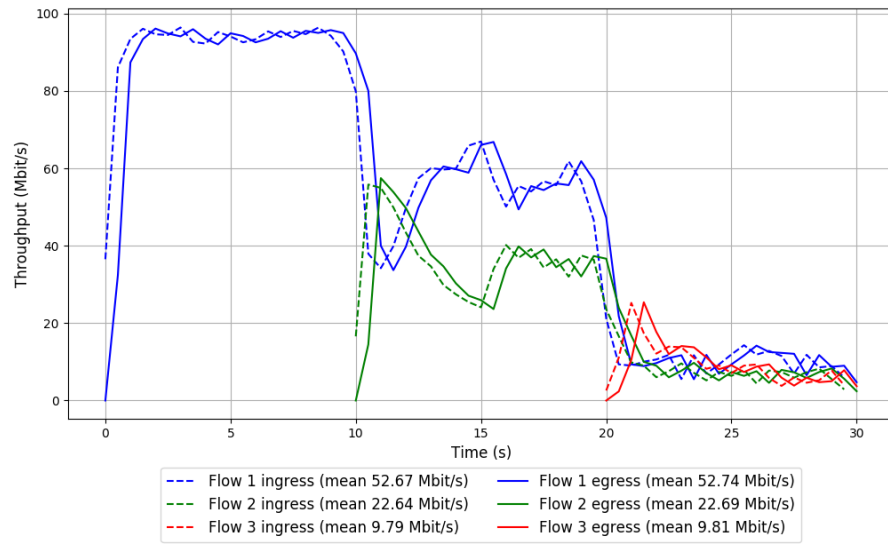


Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-12-11 16:53:17  
End at: 2019-12-11 16:53:47  
Local clock offset: 0.058 ms  
Remote clock offset: -3.341 ms

# Below is generated by plot.py at 2019-12-11 17:36:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 70.89 Mbit/s  
95th percentile per-packet one-way delay: 18.491 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 52.74 Mbit/s  
95th percentile per-packet one-way delay: 18.455 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 22.69 Mbit/s  
95th percentile per-packet one-way delay: 20.363 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 9.81 Mbit/s  
95th percentile per-packet one-way delay: 15.975 ms  
Loss rate: 0.26%

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

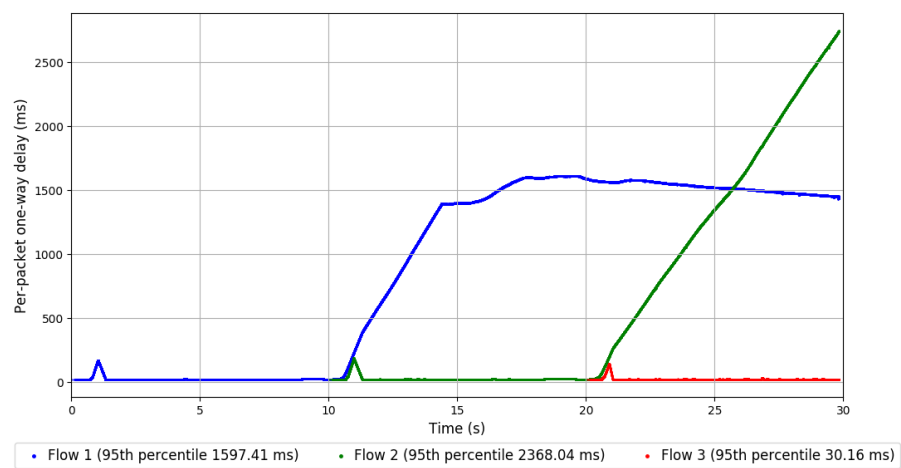
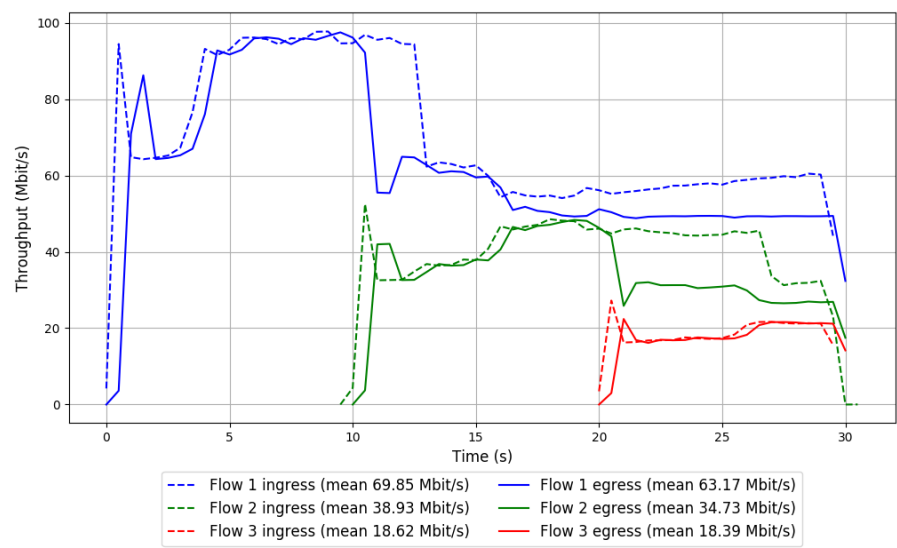


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-12-11 15:16:54
End at: 2019-12-11 15:17:24
Local clock offset: 2.19 ms
Remote clock offset: -8.826 ms

# Below is generated by plot.py at 2019-12-11 17:36:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.30 Mbit/s
95th percentile per-packet one-way delay: 1609.780 ms
Loss rate: 10.47%
-- Flow 1:
Average throughput: 63.17 Mbit/s
95th percentile per-packet one-way delay: 1597.406 ms
Loss rate: 9.72%
-- Flow 2:
Average throughput: 34.73 Mbit/s
95th percentile per-packet one-way delay: 2368.036 ms
Loss rate: 14.42%
-- Flow 3:
Average throughput: 18.39 Mbit/s
95th percentile per-packet one-way delay: 30.157 ms
Loss rate: 1.72%
```

Run 1: Report of PCC-Allegro — Data Link

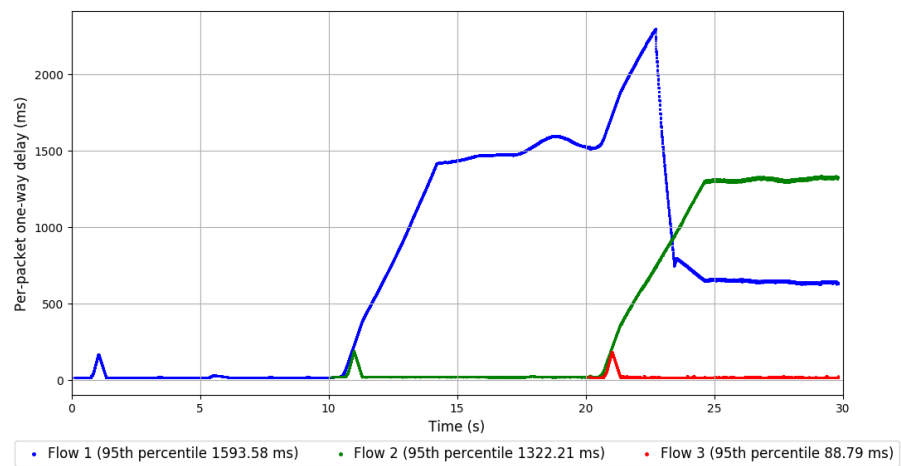
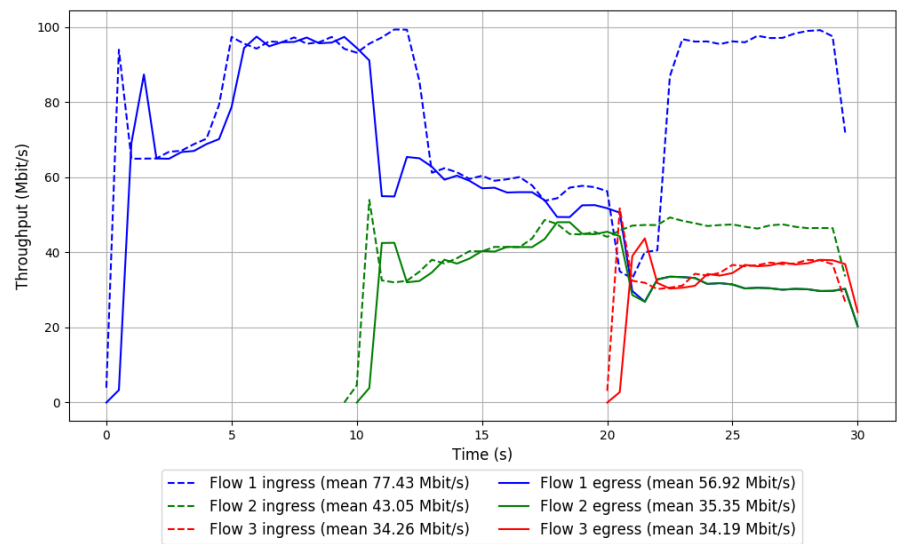


Run 2: Statistics of PCC-Allegro

Start at: 2019-12-11 15:47:47  
End at: 2019-12-11 15:48:17  
Local clock offset: 4.64 ms  
Remote clock offset: -9.022 ms

# Below is generated by plot.py at 2019-12-11 17:36:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.64 Mbit/s  
95th percentile per-packet one-way delay: 1558.188 ms  
Loss rate: 22.05%  
-- Flow 1:  
Average throughput: 56.92 Mbit/s  
95th percentile per-packet one-way delay: 1593.583 ms  
Loss rate: 26.62%  
-- Flow 2:  
Average throughput: 35.35 Mbit/s  
95th percentile per-packet one-way delay: 1322.214 ms  
Loss rate: 18.11%  
-- Flow 3:  
Average throughput: 34.19 Mbit/s  
95th percentile per-packet one-way delay: 88.788 ms  
Loss rate: 0.70%

Run 2: Report of PCC-Allegro — Data Link

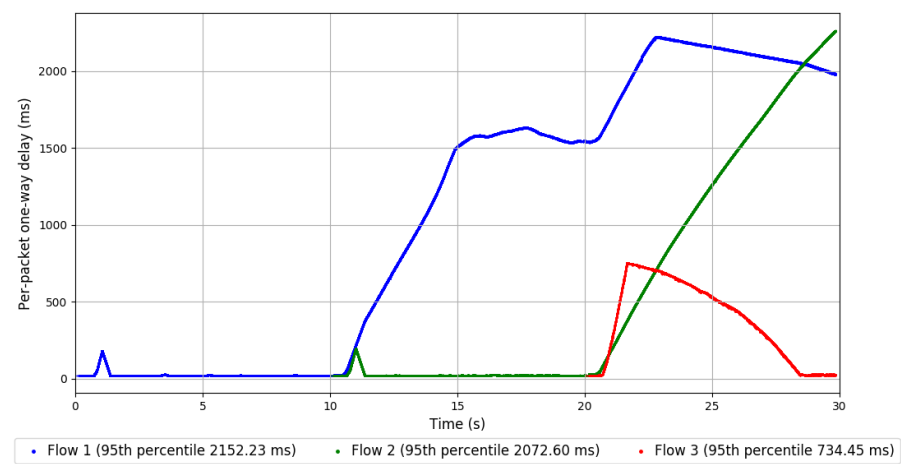
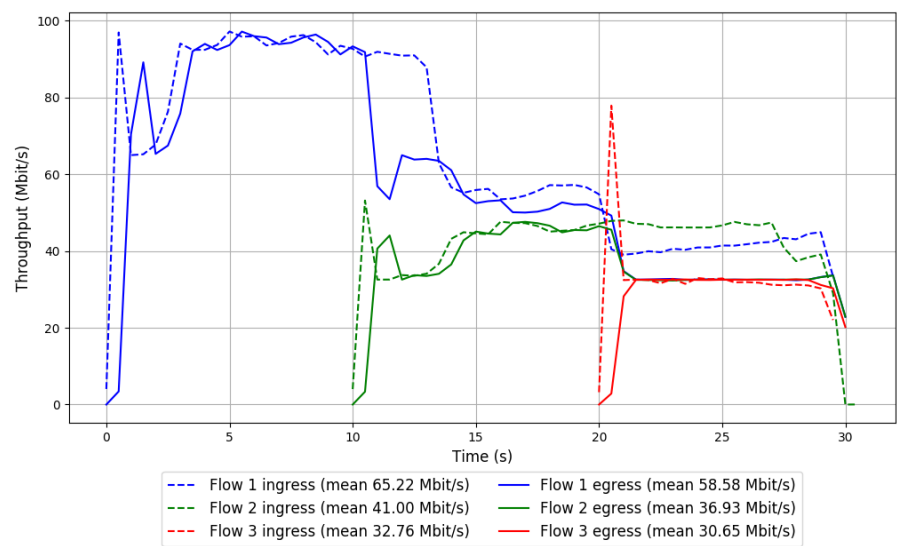


Run 3: Statistics of PCC-Allegro

Start at: 2019-12-11 16:18:11  
End at: 2019-12-11 16:18:41  
Local clock offset: 5.905 ms  
Remote clock offset: -7.147 ms

# Below is generated by plot.py at 2019-12-11 17:36:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.16 Mbit/s  
95th percentile per-packet one-way delay: 2129.870 ms  
Loss rate: 10.90%  
-- Flow 1:  
Average throughput: 58.58 Mbit/s  
95th percentile per-packet one-way delay: 2152.229 ms  
Loss rate: 10.33%  
-- Flow 2:  
Average throughput: 36.93 Mbit/s  
95th percentile per-packet one-way delay: 2072.602 ms  
Loss rate: 13.73%  
-- Flow 3:  
Average throughput: 30.65 Mbit/s  
95th percentile per-packet one-way delay: 734.450 ms  
Loss rate: 6.92%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-12-11 16:49:24

End at: 2019-12-11 16:49:54

Local clock offset: 4.646 ms

Remote clock offset: -5.92 ms

# Below is generated by plot.py at 2019-12-11 17:36:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.83 Mbit/s

95th percentile per-packet one-way delay: 2128.391 ms

Loss rate: 11.01%

-- Flow 1:

Average throughput: 58.24 Mbit/s

95th percentile per-packet one-way delay: 2146.544 ms

Loss rate: 10.49%

-- Flow 2:

Average throughput: 36.80 Mbit/s

95th percentile per-packet one-way delay: 2079.364 ms

Loss rate: 13.83%

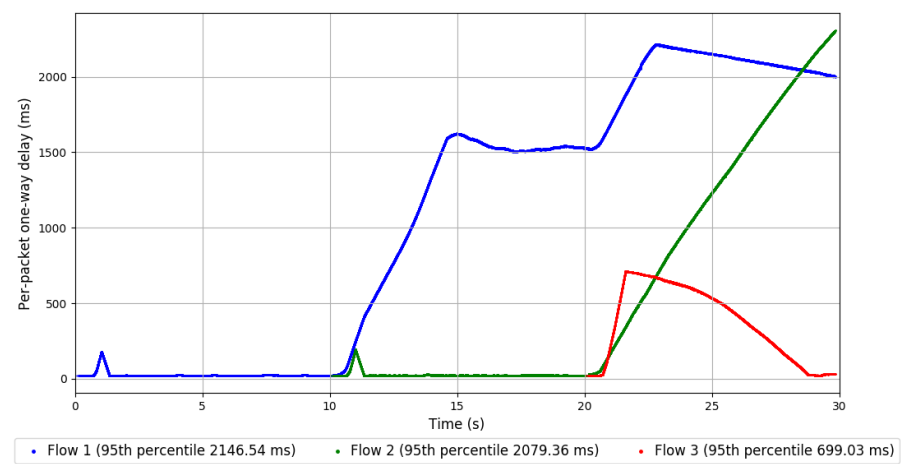
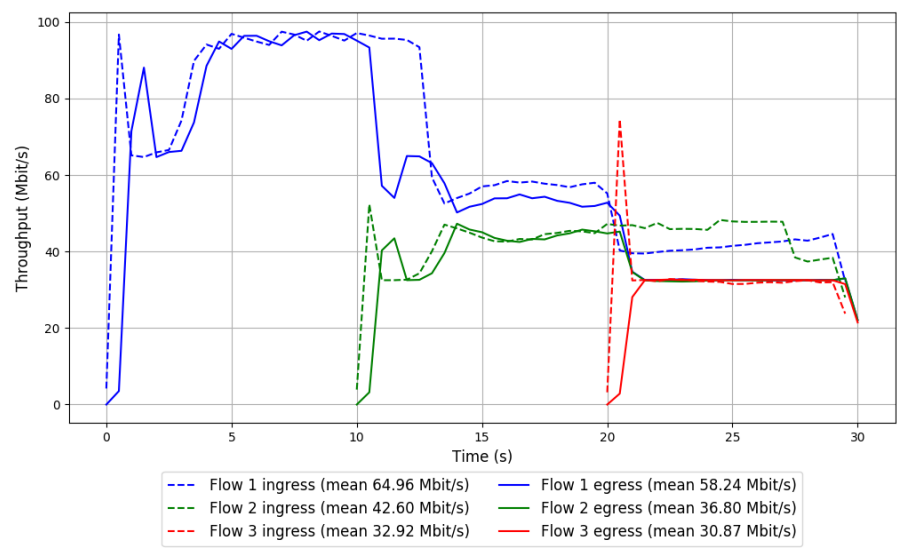
-- Flow 3:

Average throughput: 30.87 Mbit/s

95th percentile per-packet one-way delay: 699.033 ms

Loss rate: 6.72%

Run 4: Report of PCC-Allegro — Data Link

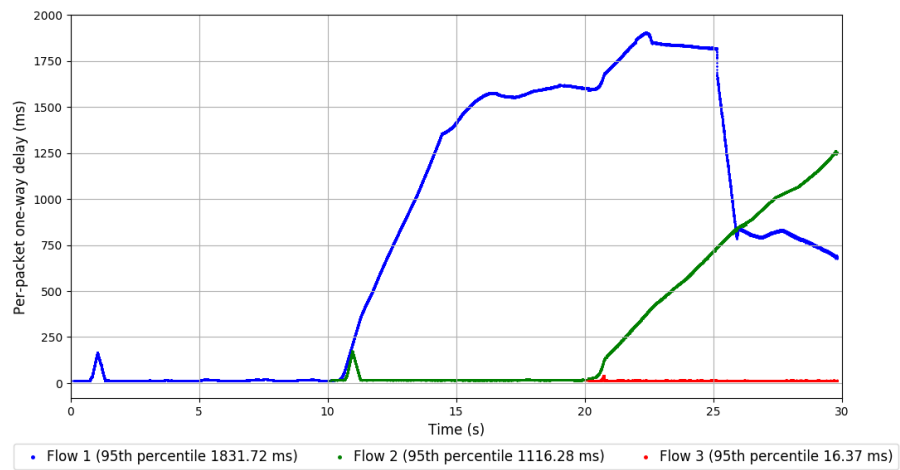
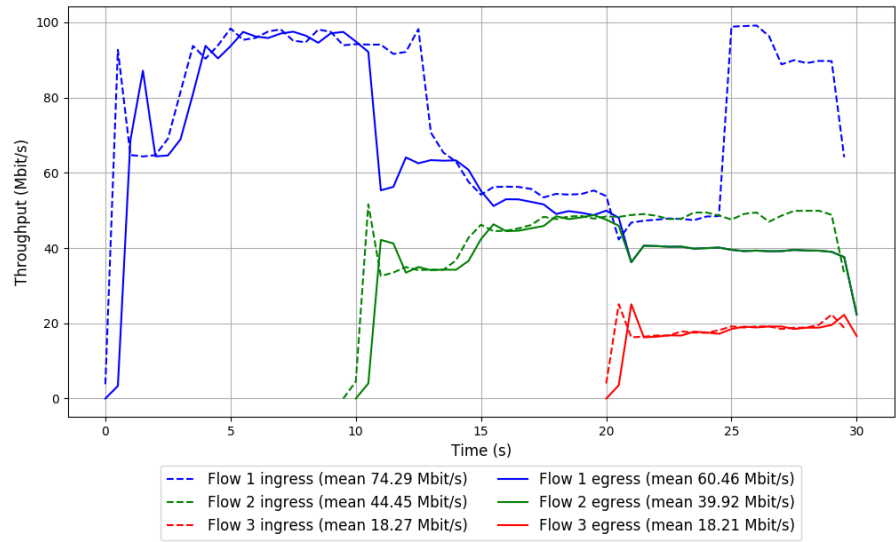


Run 5: Statistics of PCC-Allegro

Start at: 2019-12-11 17:20:00  
End at: 2019-12-11 17:20:30  
Local clock offset: -0.181 ms  
Remote clock offset: -3.627 ms

# Below is generated by plot.py at 2019-12-11 17:37:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.97 Mbit/s  
95th percentile per-packet one-way delay: 1803.541 ms  
Loss rate: 15.54%  
-- Flow 1:  
Average throughput: 60.46 Mbit/s  
95th percentile per-packet one-way delay: 1831.716 ms  
Loss rate: 18.77%  
-- Flow 2:  
Average throughput: 39.92 Mbit/s  
95th percentile per-packet one-way delay: 1116.281 ms  
Loss rate: 10.43%  
-- Flow 3:  
Average throughput: 18.21 Mbit/s  
95th percentile per-packet one-way delay: 16.371 ms  
Loss rate: 0.82%

# Run 5: Report of PCC-Allegro — Data Link

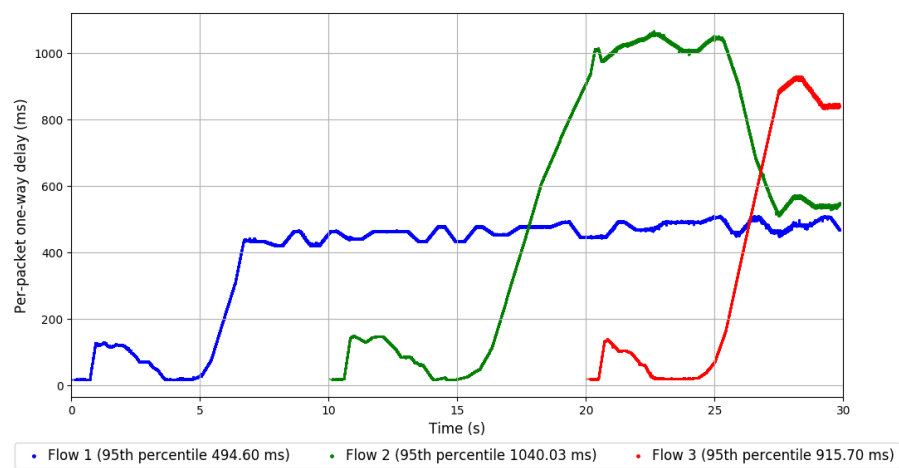
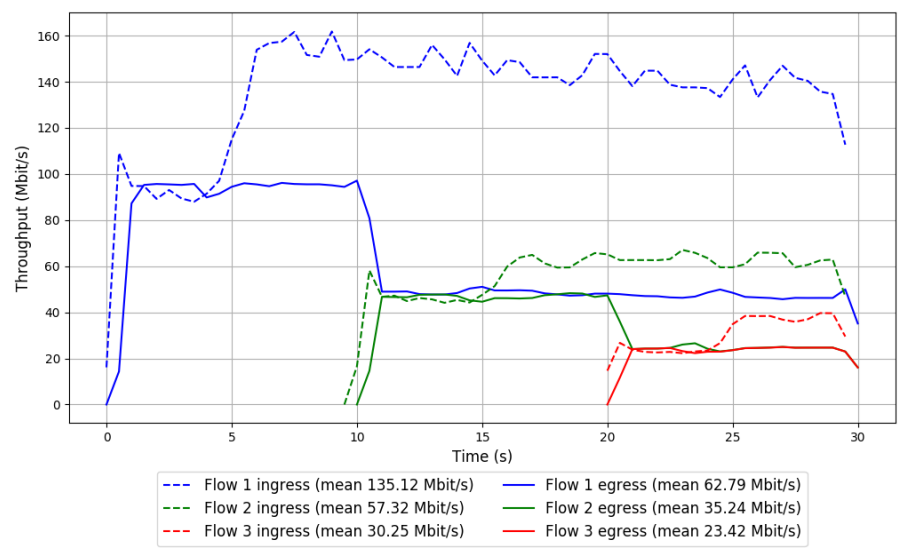


```
Run 1: Statistics of PCC-Expr

Start at: 2019-12-11 14:57:49
End at: 2019-12-11 14:58:19
Local clock offset: -3.912 ms
Remote clock offset: -14.751 ms

# Below is generated by plot.py at 2019-12-11 17:38:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.92 Mbit/s
95th percentile per-packet one-way delay: 924.940 ms
Loss rate: 48.84%
-- Flow 1:
Average throughput: 62.79 Mbit/s
95th percentile per-packet one-way delay: 494.602 ms
Loss rate: 53.62%
-- Flow 2:
Average throughput: 35.24 Mbit/s
95th percentile per-packet one-way delay: 1040.034 ms
Loss rate: 38.69%
-- Flow 3:
Average throughput: 23.42 Mbit/s
95th percentile per-packet one-way delay: 915.702 ms
Loss rate: 22.99%
```

Run 1: Report of PCC-Expr — Data Link

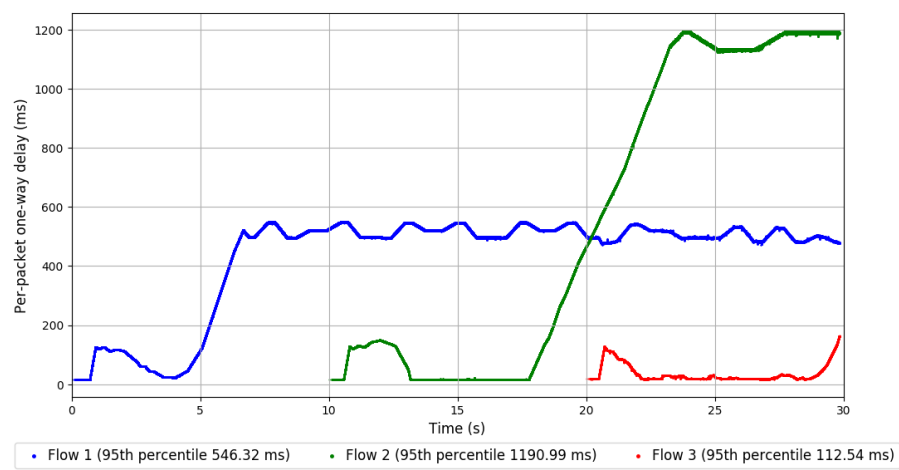
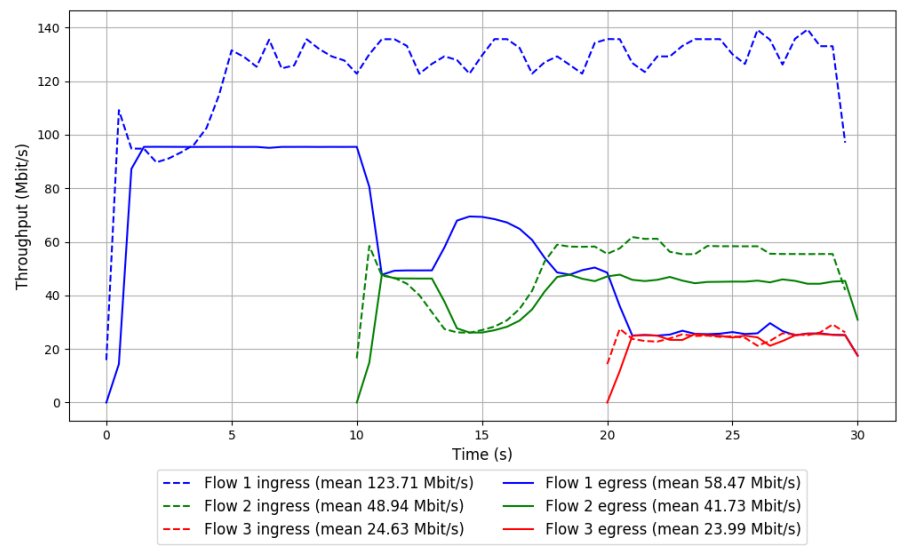


Run 2: Statistics of PCC-Expr

Start at: 2019-12-11 15:28:28  
End at: 2019-12-11 15:28:58  
Local clock offset: 1.124 ms  
Remote clock offset: -6.999 ms

# Below is generated by plot.py at 2019-12-11 17:38:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.10 Mbit/s  
95th percentile per-packet one-way delay: 1176.968 ms  
Loss rate: 42.88%  
-- Flow 1:  
Average throughput: 58.47 Mbit/s  
95th percentile per-packet one-way delay: 546.320 ms  
Loss rate: 52.84%  
-- Flow 2:  
Average throughput: 41.73 Mbit/s  
95th percentile per-packet one-way delay: 1190.991 ms  
Loss rate: 14.98%  
-- Flow 3:  
Average throughput: 23.99 Mbit/s  
95th percentile per-packet one-way delay: 112.538 ms  
Loss rate: 3.09%

Run 2: Report of PCC-Expr — Data Link

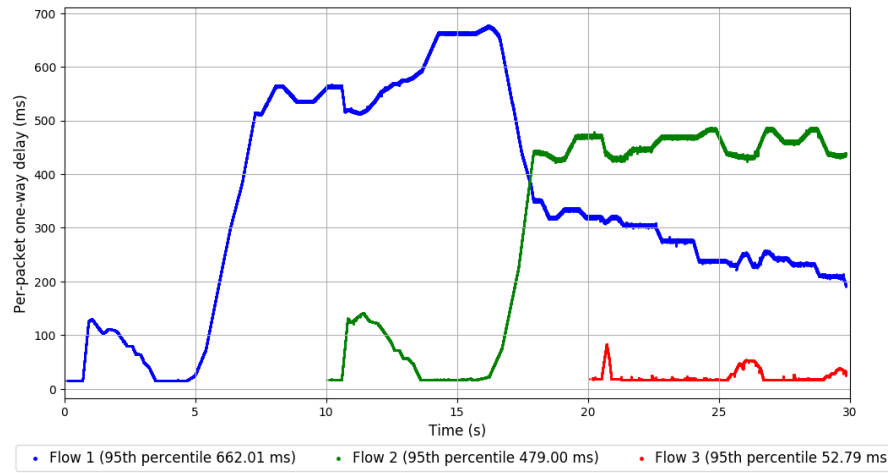
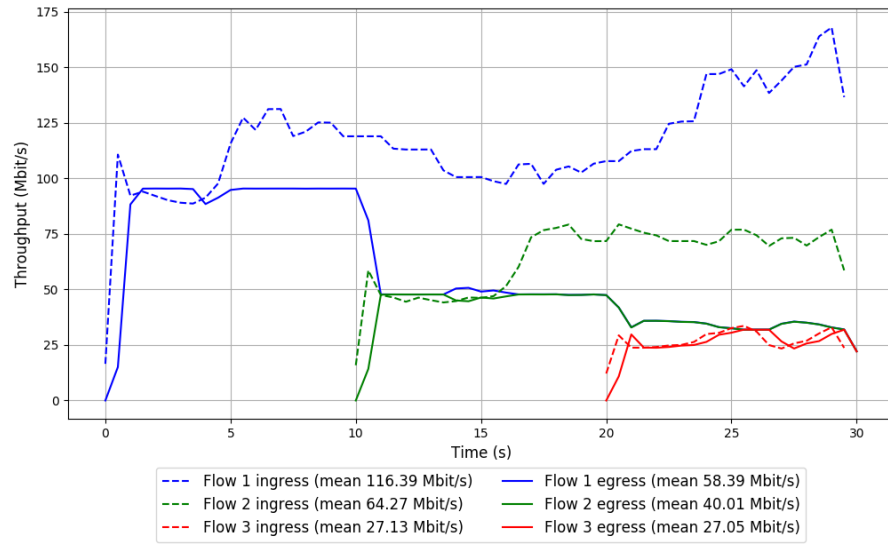


Run 3: Statistics of PCC-Expr

Start at: 2019-12-11 15:59:03  
End at: 2019-12-11 15:59:33  
Local clock offset: 0.832 ms  
Remote clock offset: -8.337 ms

# Below is generated by plot.py at 2019-12-11 17:38:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.88 Mbit/s  
95th percentile per-packet one-way delay: 619.967 ms  
Loss rate: 44.25%  
-- Flow 1:  
Average throughput: 58.39 Mbit/s  
95th percentile per-packet one-way delay: 662.014 ms  
Loss rate: 49.92%  
-- Flow 2:  
Average throughput: 40.01 Mbit/s  
95th percentile per-packet one-way delay: 479.005 ms  
Loss rate: 37.92%  
-- Flow 3:  
Average throughput: 27.05 Mbit/s  
95th percentile per-packet one-way delay: 52.794 ms  
Loss rate: 0.79%

### Run 3: Report of PCC-Expr — Data Link

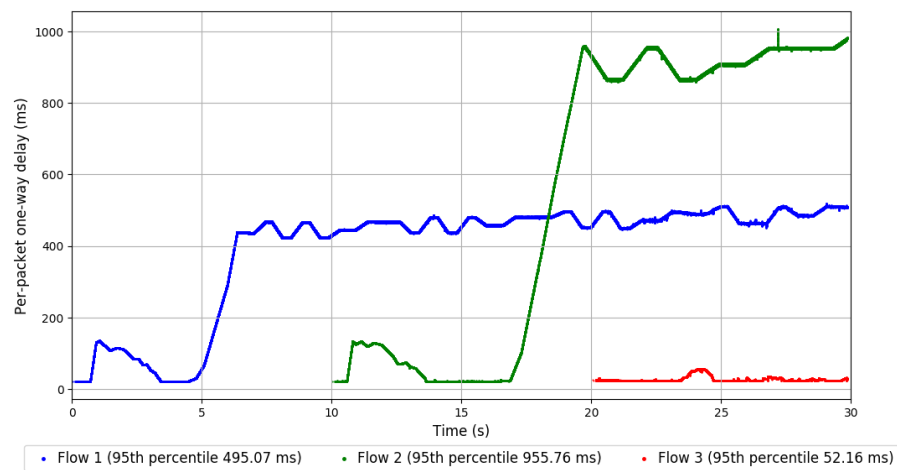
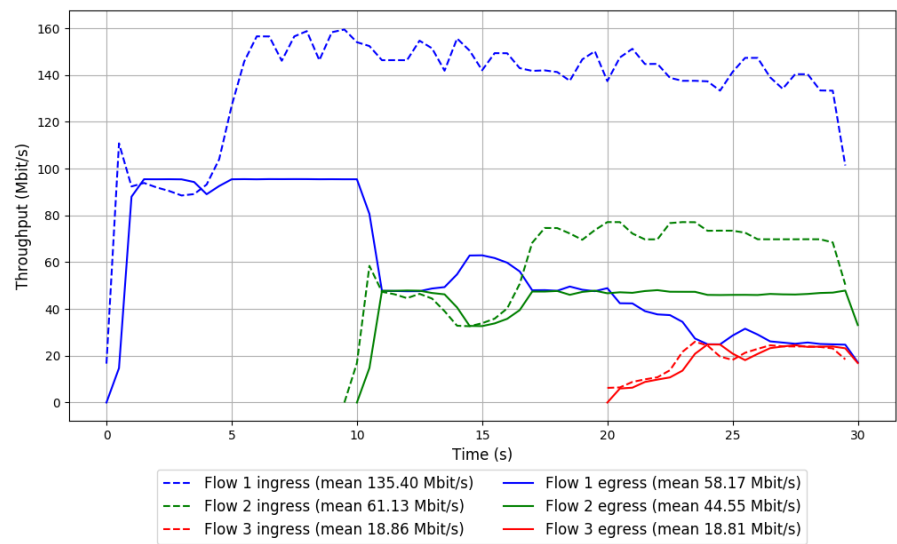


Run 4: Statistics of PCC-Expr

Start at: 2019-12-11 16:29:34  
End at: 2019-12-11 16:30:04  
Local clock offset: 6.152 ms  
Remote clock offset: -6.796 ms

# Below is generated by plot.py at 2019-12-11 17:39:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.97 Mbit/s  
95th percentile per-packet one-way delay: 951.849 ms  
Loss rate: 48.54%  
-- Flow 1:  
Average throughput: 58.17 Mbit/s  
95th percentile per-packet one-way delay: 495.075 ms  
Loss rate: 57.12%  
-- Flow 2:  
Average throughput: 44.55 Mbit/s  
95th percentile per-packet one-way delay: 955.762 ms  
Loss rate: 27.31%  
-- Flow 3:  
Average throughput: 18.81 Mbit/s  
95th percentile per-packet one-way delay: 52.158 ms  
Loss rate: 0.78%

Run 4: Report of PCC-Expr — Data Link

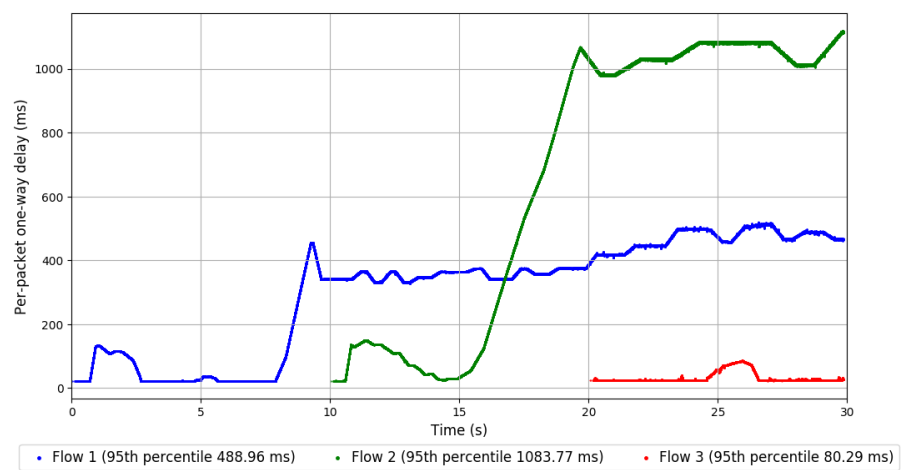
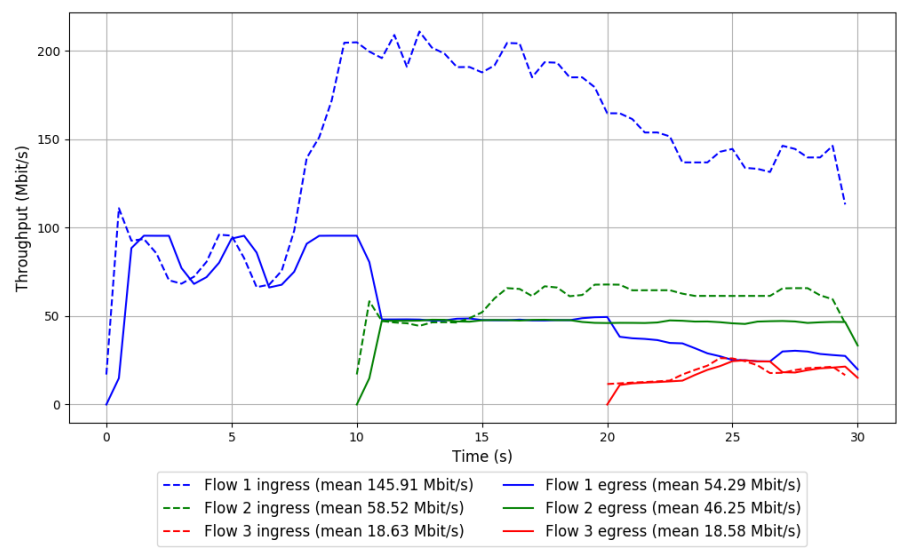


Run 5: Statistics of PCC-Expr

Start at: 2019-12-11 17:00:41  
End at: 2019-12-11 17:01:11  
Local clock offset: 4.757 ms  
Remote clock offset: -5.868 ms

# Below is generated by plot.py at 2019-12-11 17:39:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.15 Mbit/s  
95th percentile per-packet one-way delay: 1079.387 ms  
Loss rate: 52.36%  
-- Flow 1:  
Average throughput: 54.29 Mbit/s  
95th percentile per-packet one-way delay: 488.963 ms  
Loss rate: 62.86%  
-- Flow 2:  
Average throughput: 46.25 Mbit/s  
95th percentile per-packet one-way delay: 1083.772 ms  
Loss rate: 21.19%  
-- Flow 3:  
Average throughput: 18.58 Mbit/s  
95th percentile per-packet one-way delay: 80.289 ms  
Loss rate: 0.79%

Run 5: Report of PCC-Expr — Data Link

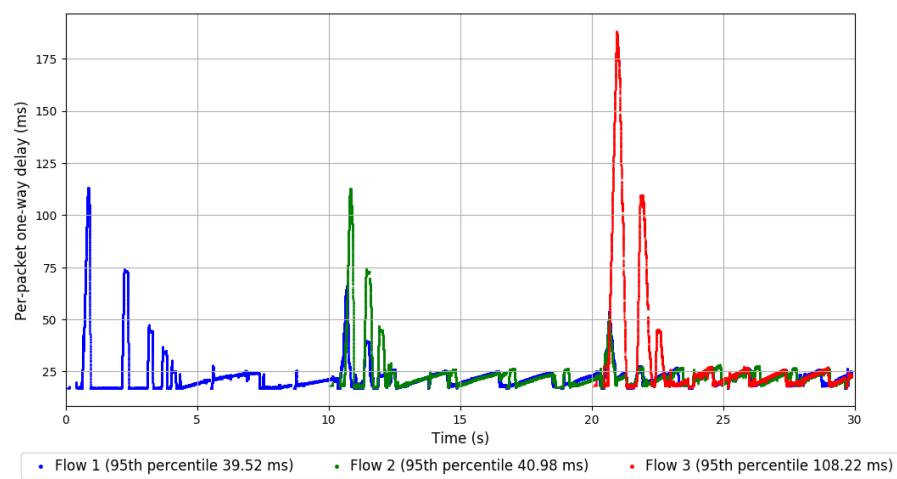
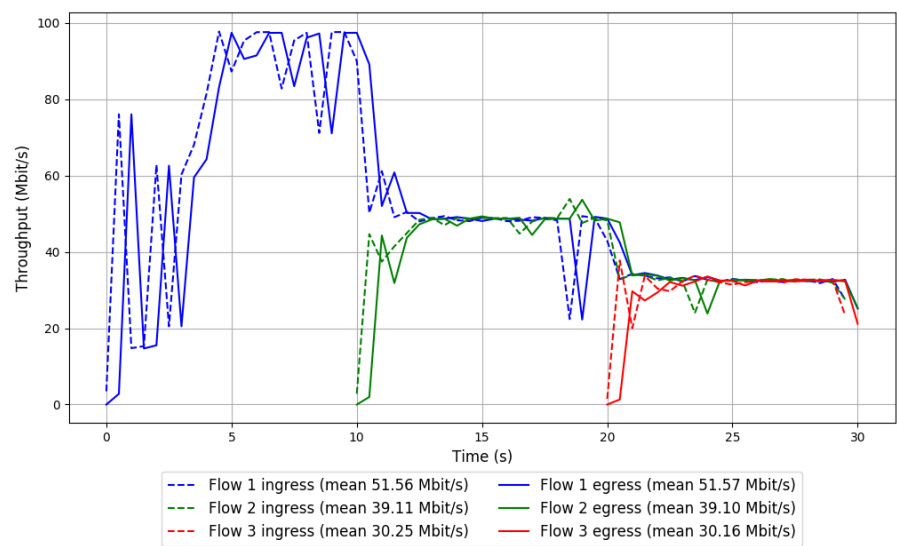


Run 1: Statistics of QUIC Cubic

Start at: 2019-12-11 15:05:41  
End at: 2019-12-11 15:06:11  
Local clock offset: 2.379 ms  
Remote clock offset: -7.431 ms

# Below is generated by plot.py at 2019-12-11 17:39:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.50 Mbit/s  
95th percentile per-packet one-way delay: 44.307 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 51.57 Mbit/s  
95th percentile per-packet one-way delay: 39.518 ms  
Loss rate: 0.15%  
-- Flow 2:  
Average throughput: 39.10 Mbit/s  
95th percentile per-packet one-way delay: 40.981 ms  
Loss rate: 0.28%  
-- Flow 3:  
Average throughput: 30.16 Mbit/s  
95th percentile per-packet one-way delay: 108.218 ms  
Loss rate: 0.78%

Run 1: Report of QUIC Cubic — Data Link

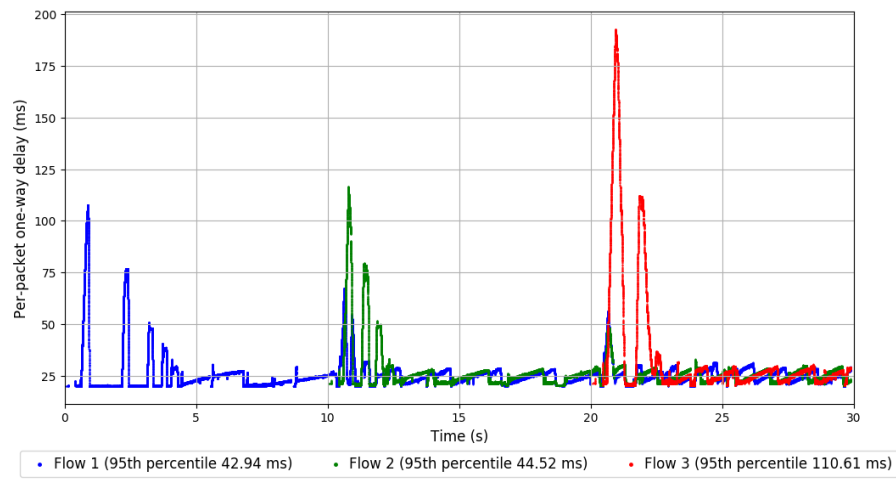
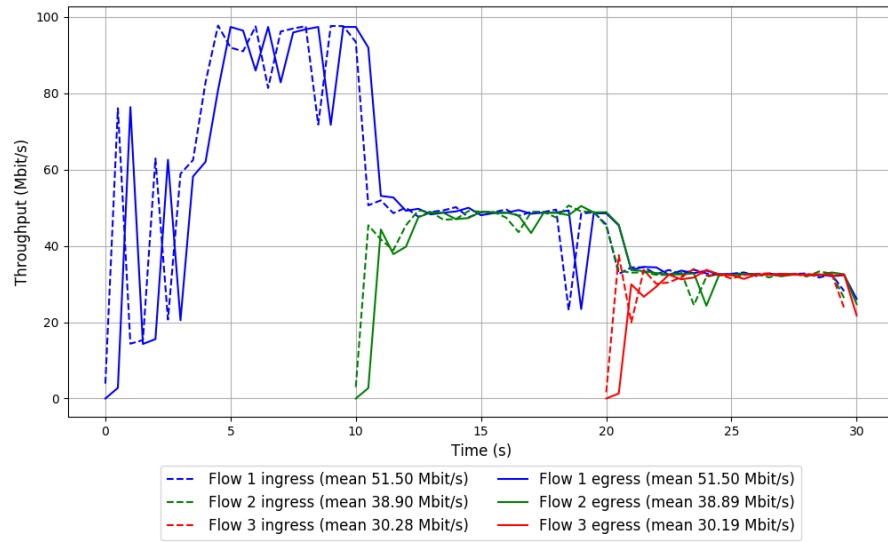


Run 2: Statistics of QUIC Cubic

Start at: 2019-12-11 15:36:32  
End at: 2019-12-11 15:37:02  
Local clock offset: 4.529 ms  
Remote clock offset: -8.122 ms

# Below is generated by plot.py at 2019-12-11 17:39:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.31 Mbit/s  
95th percentile per-packet one-way delay: 47.872 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 51.50 Mbit/s  
95th percentile per-packet one-way delay: 42.939 ms  
Loss rate: 0.15%  
-- Flow 2:  
Average throughput: 38.89 Mbit/s  
95th percentile per-packet one-way delay: 44.515 ms  
Loss rate: 0.27%  
-- Flow 3:  
Average throughput: 30.19 Mbit/s  
95th percentile per-packet one-way delay: 110.607 ms  
Loss rate: 0.80%

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

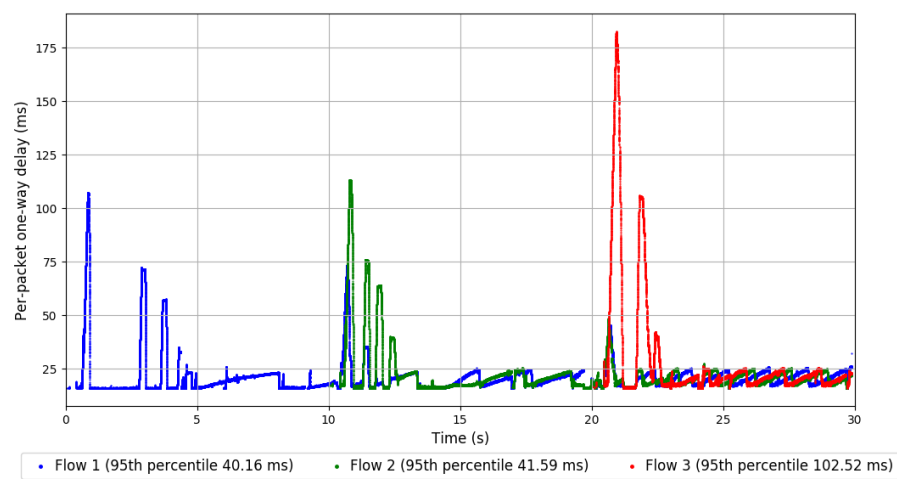
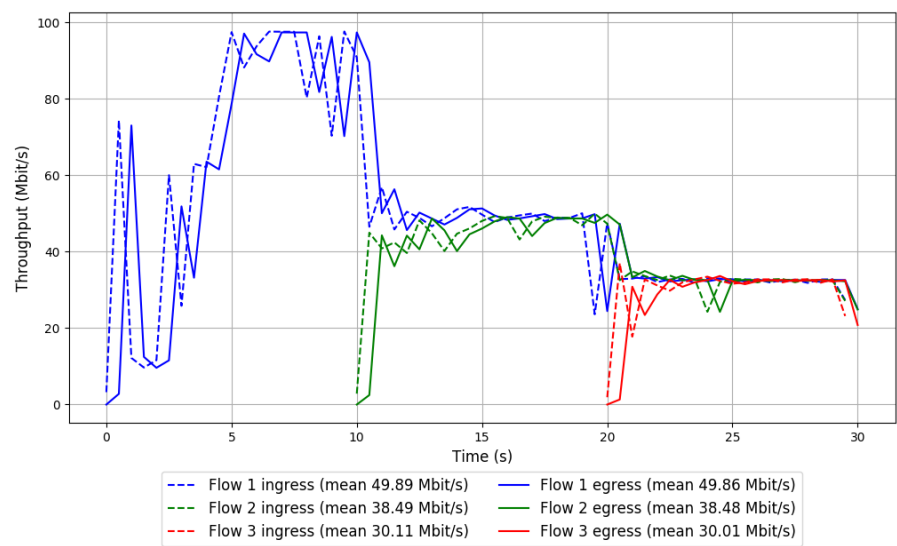


Run 3: Statistics of QUIC Cubic

Start at: 2019-12-11 16:06:32  
End at: 2019-12-11 16:07:02  
Local clock offset: 1.244 ms  
Remote clock offset: -8.587 ms

# Below is generated by plot.py at 2019-12-11 17:39:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.32 Mbit/s  
95th percentile per-packet one-way delay: 46.439 ms  
Loss rate: 0.30%  
-- Flow 1:  
Average throughput: 49.86 Mbit/s  
95th percentile per-packet one-way delay: 40.165 ms  
Loss rate: 0.19%  
-- Flow 2:  
Average throughput: 38.48 Mbit/s  
95th percentile per-packet one-way delay: 41.586 ms  
Loss rate: 0.28%  
-- Flow 3:  
Average throughput: 30.01 Mbit/s  
95th percentile per-packet one-way delay: 102.522 ms  
Loss rate: 0.84%

Run 3: Report of QUIC Cubic — Data Link

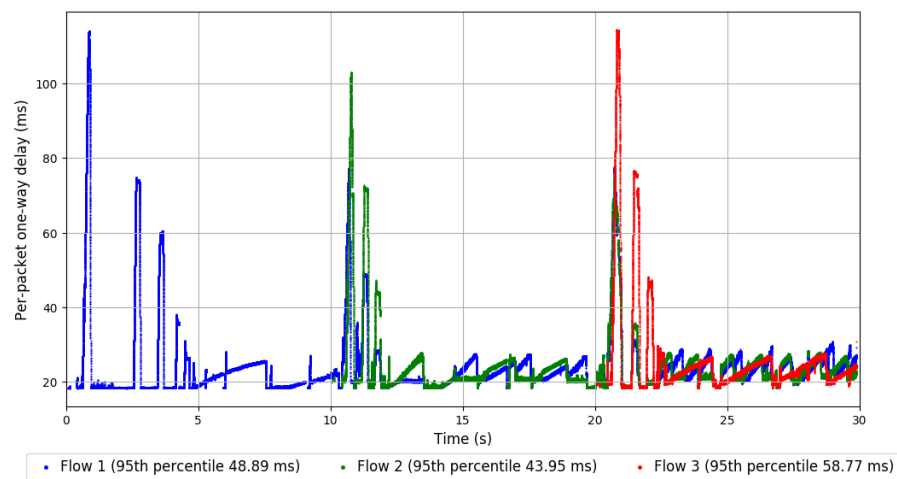
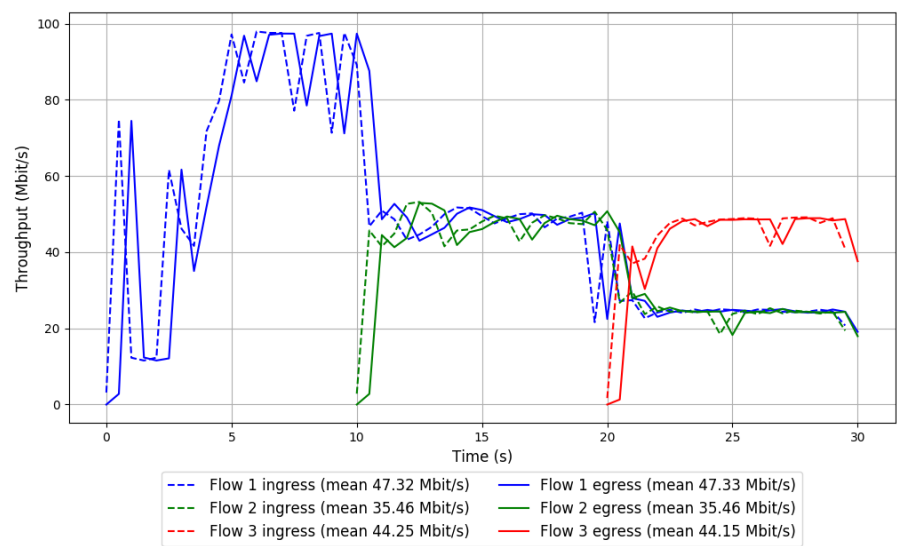


Run 4: Statistics of QUIC Cubic

Start at: 2019-12-11 16:37:36  
End at: 2019-12-11 16:38:06  
Local clock offset: 3.997 ms  
Remote clock offset: -6.365 ms

# Below is generated by plot.py at 2019-12-11 17:39:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.46 Mbit/s  
95th percentile per-packet one-way delay: 48.509 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 47.33 Mbit/s  
95th percentile per-packet one-way delay: 48.891 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 35.46 Mbit/s  
95th percentile per-packet one-way delay: 43.949 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 44.15 Mbit/s  
95th percentile per-packet one-way delay: 58.769 ms  
Loss rate: 0.67%

Run 4: Report of QUIC Cubic — Data Link

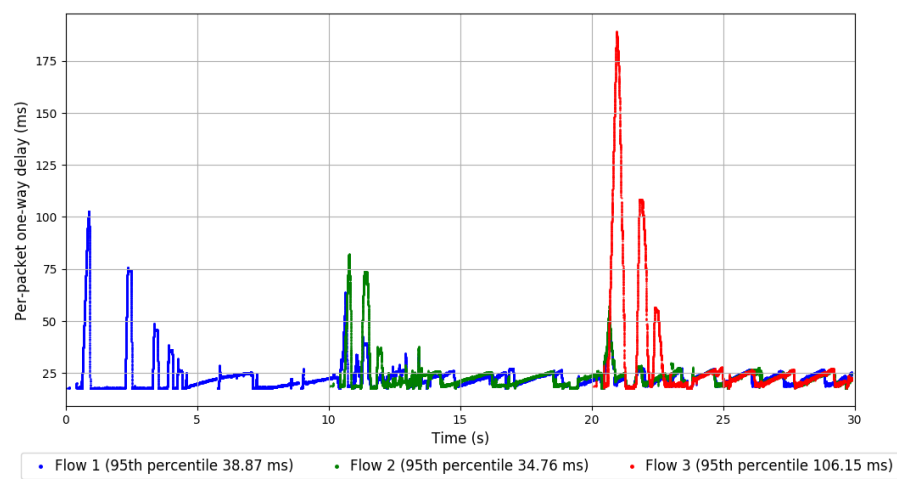
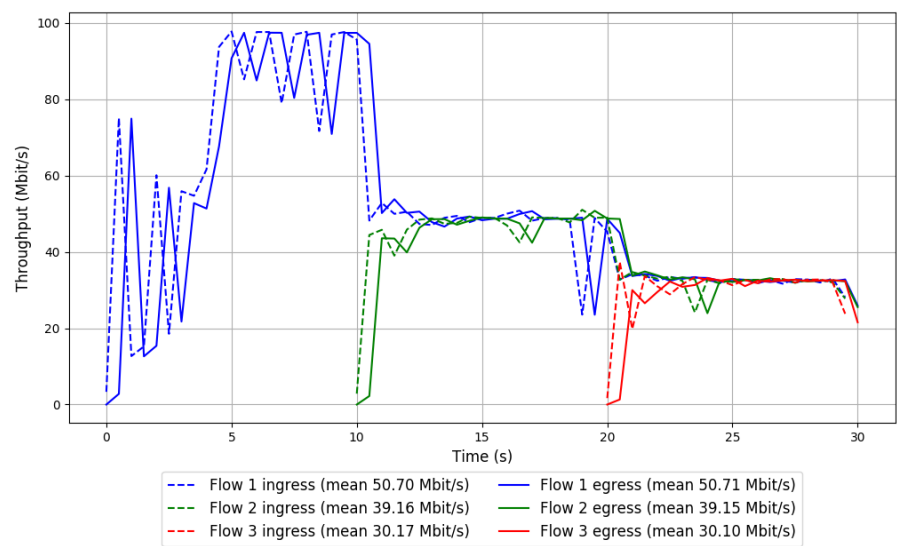


Run 5: Statistics of QUIC Cubic

Start at: 2019-12-11 17:08:40  
End at: 2019-12-11 17:09:10  
Local clock offset: -0.123 ms  
Remote clock offset: -6.756 ms

# Below is generated by plot.py at 2019-12-11 17:39:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.65 Mbit/s  
95th percentile per-packet one-way delay: 43.848 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 50.71 Mbit/s  
95th percentile per-packet one-way delay: 38.873 ms  
Loss rate: 0.15%  
-- Flow 2:  
Average throughput: 39.15 Mbit/s  
95th percentile per-packet one-way delay: 34.757 ms  
Loss rate: 0.26%  
-- Flow 3:  
Average throughput: 30.10 Mbit/s  
95th percentile per-packet one-way delay: 106.147 ms  
Loss rate: 0.77%

Run 5: Report of QUIC Cubic — Data Link

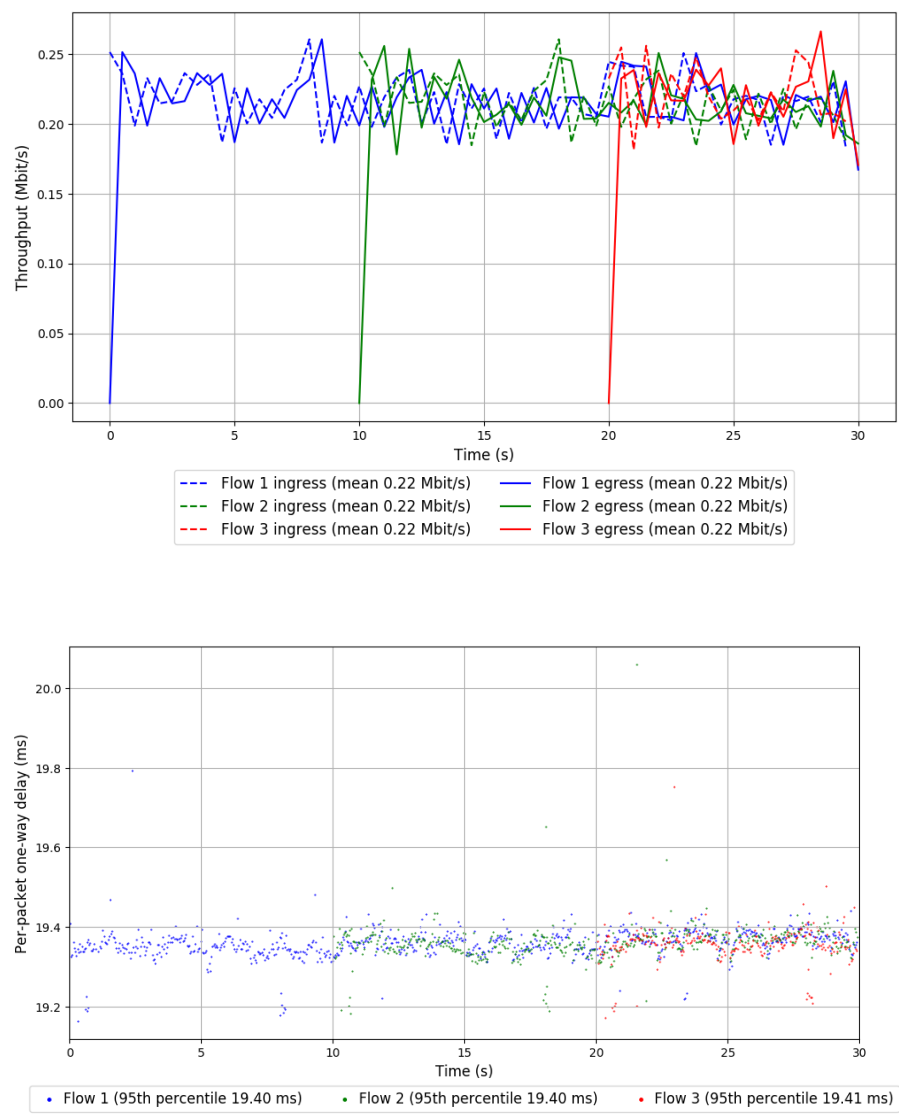


Run 1: Statistics of SReAM

Start at: 2019-12-11 14:59:17  
End at: 2019-12-11 14:59:47  
Local clock offset: 5.009 ms  
Remote clock offset: -6.966 ms

# Below is generated by plot.py at 2019-12-11 17:39:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 19.404 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.403 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.404 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.411 ms  
Loss rate: 0.71%

Run 1: Report of SReAM — Data Link

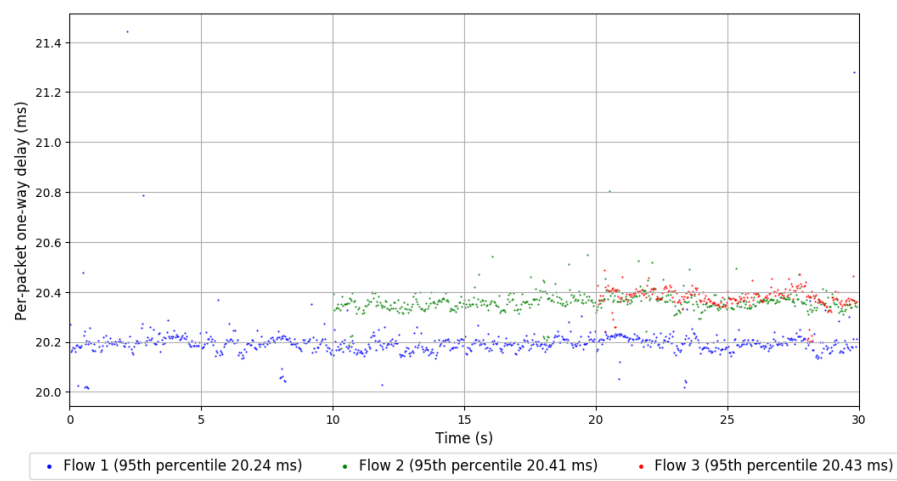
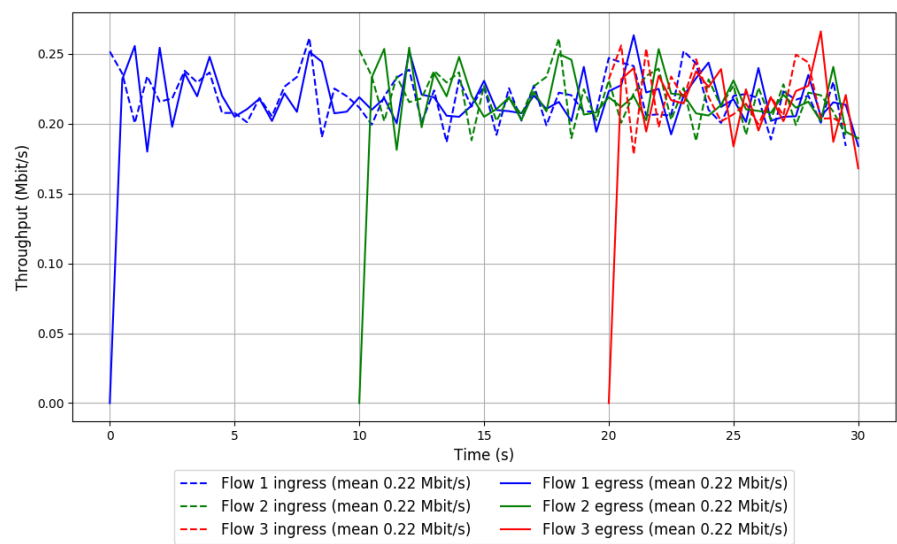


Run 2: Statistics of SReAM

Start at: 2019-12-11 15:29:54  
End at: 2019-12-11 15:30:24  
Local clock offset: 4.194 ms  
Remote clock offset: -8.622 ms

# Below is generated by plot.py at 2019-12-11 17:39:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 20.408 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 20.242 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 20.410 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 20.426 ms  
Loss rate: 0.70%

Run 2: Report of SReAM — Data Link

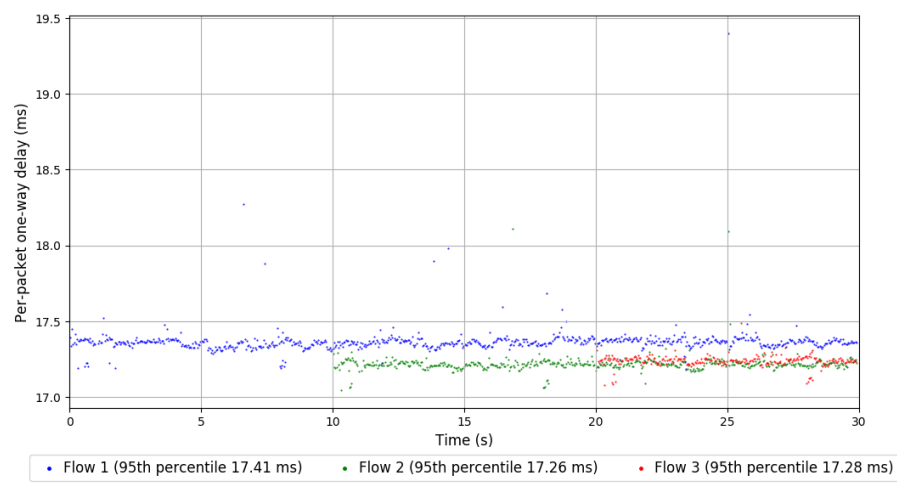
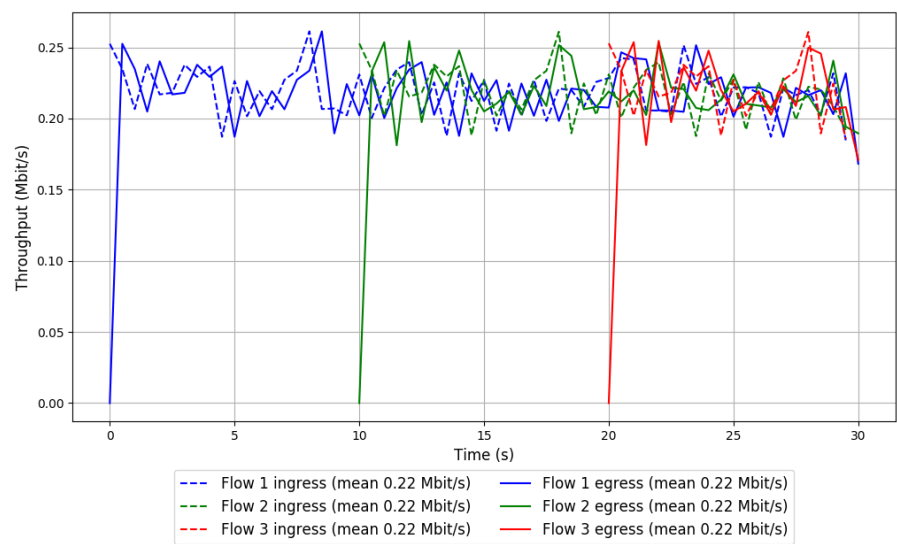


Run 3: Statistics of SReAM

Start at: 2019-12-11 16:00:21  
End at: 2019-12-11 16:00:51  
Local clock offset: 3.981 ms  
Remote clock offset: -6.99 ms

# Below is generated by plot.py at 2019-12-11 17:39:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 17.391 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 17.408 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 17.257 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 17.279 ms  
Loss rate: 0.71%

Run 3: Report of SReAM — Data Link

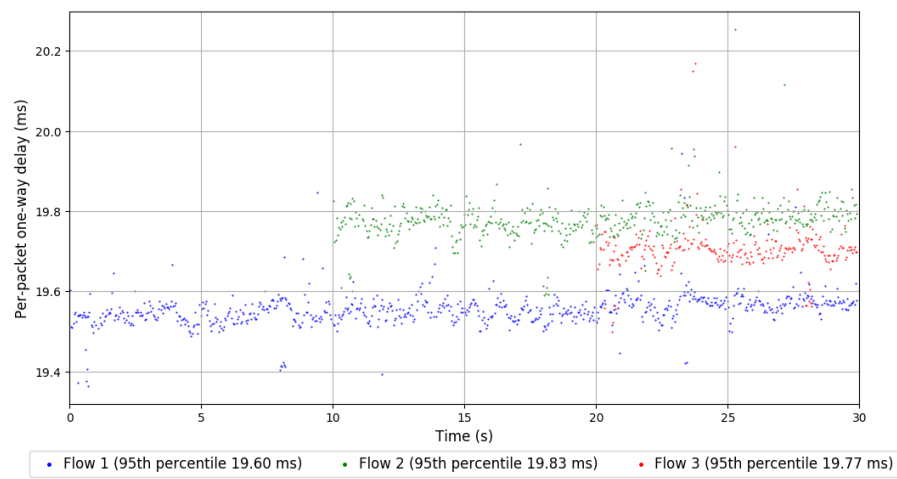
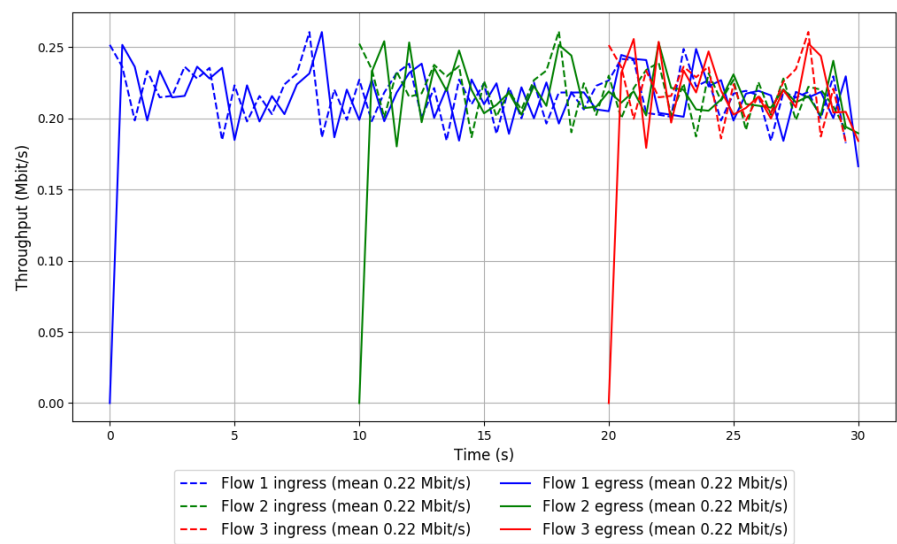


Run 4: Statistics of SReAM

Start at: 2019-12-11 16:31:02  
End at: 2019-12-11 16:31:32  
Local clock offset: 6.391 ms  
Remote clock offset: -5.413 ms

# Below is generated by plot.py at 2019-12-11 17:39:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 19.815 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.604 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.834 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.765 ms  
Loss rate: 0.35%

Run 4: Report of SReAM — Data Link

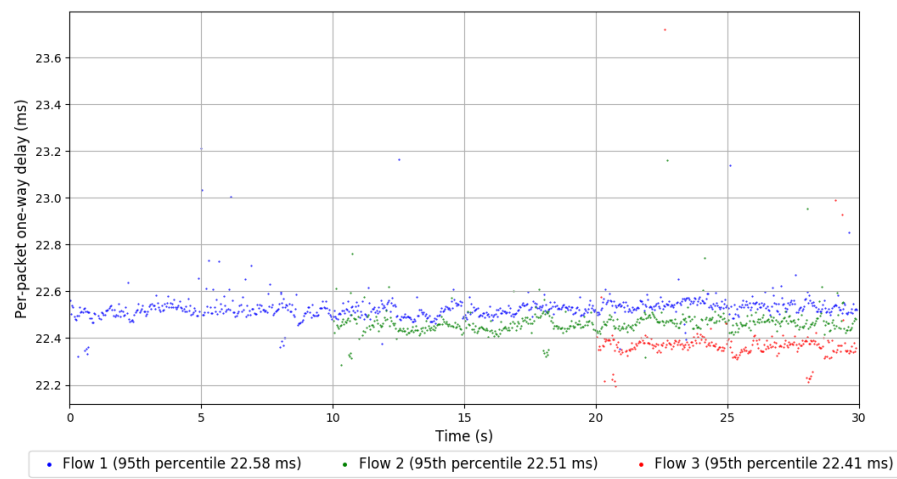
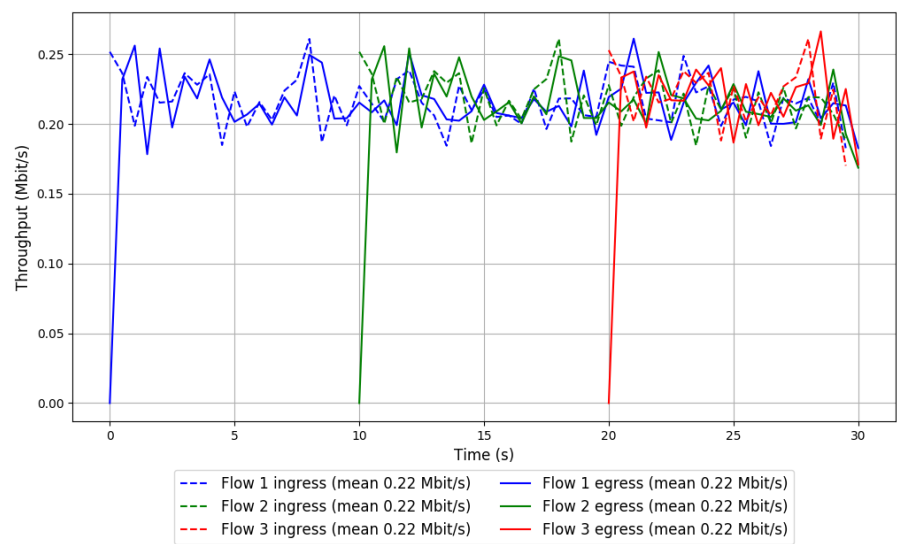


Run 5: Statistics of SReAM

Start at: 2019-12-11 17:02:14  
End at: 2019-12-11 17:02:44  
Local clock offset: 4.332 ms  
Remote clock offset: -7.003 ms

# Below is generated by plot.py at 2019-12-11 17:39:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 22.569 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 22.583 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 22.513 ms  
Loss rate: 0.39%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 22.411 ms  
Loss rate: 0.35%

Run 5: Report of SReAM — Data Link

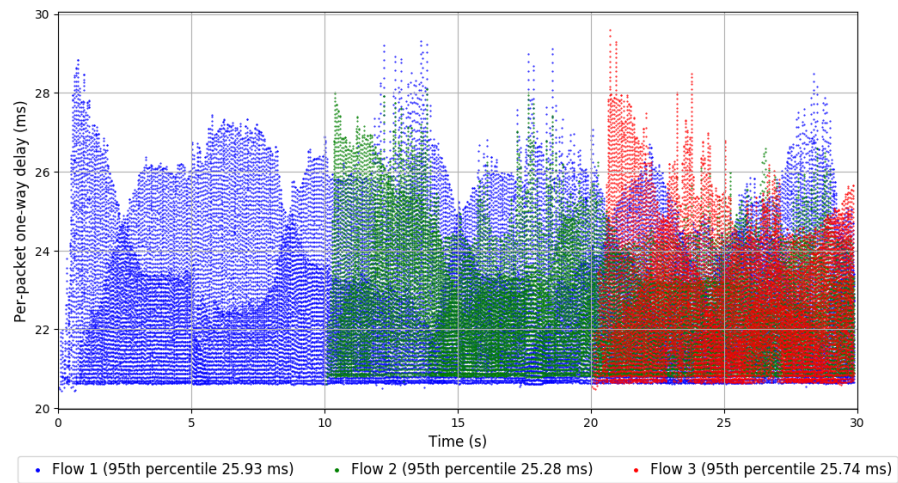
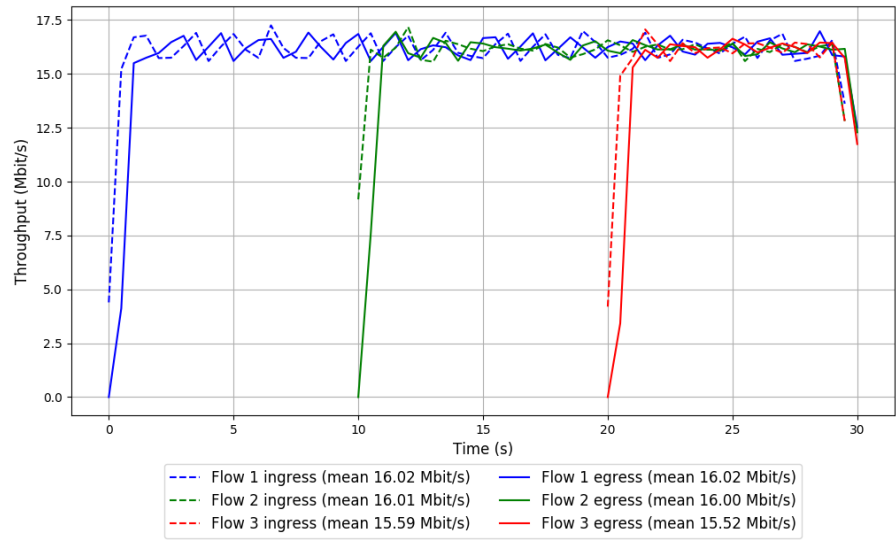


Run 1: Statistics of Sprout

Start at: 2019-12-11 14:51:34  
End at: 2019-12-11 14:52:04  
Local clock offset: 4.63 ms  
Remote clock offset: -9.131 ms

# Below is generated by plot.py at 2019-12-11 17:39:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 31.77 Mbit/s  
95th percentile per-packet one-way delay: 25.745 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 16.02 Mbit/s  
95th percentile per-packet one-way delay: 25.925 ms  
Loss rate: 0.20%  
-- Flow 2:  
Average throughput: 16.00 Mbit/s  
95th percentile per-packet one-way delay: 25.284 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 15.52 Mbit/s  
95th percentile per-packet one-way delay: 25.736 ms  
Loss rate: 0.62%

## Run 1: Report of Sprout — Data Link

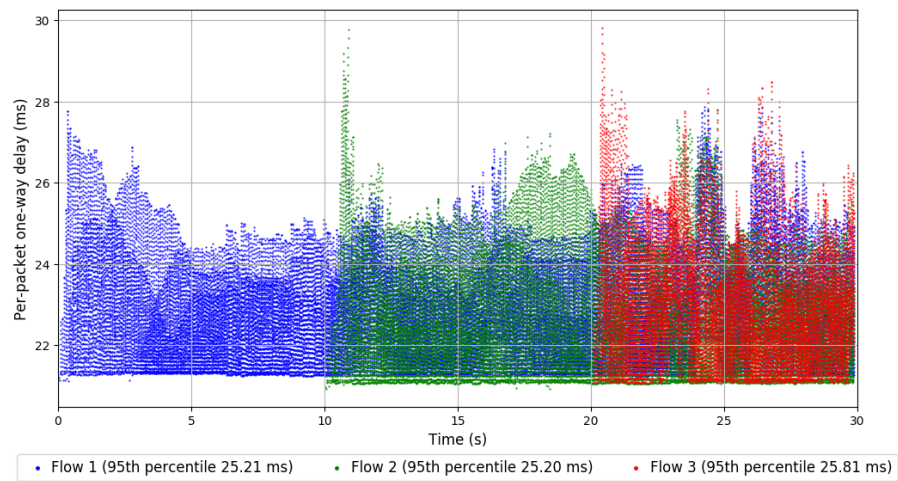
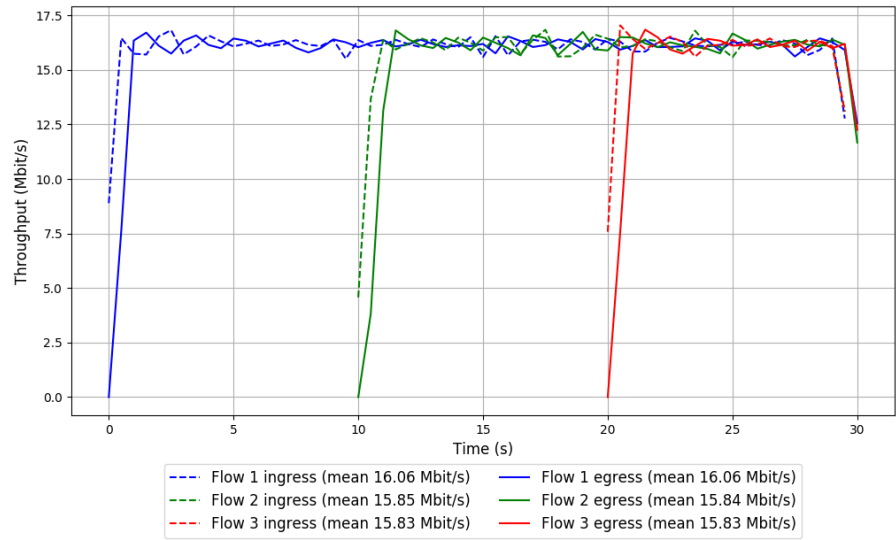


Run 2: Statistics of Sprout

Start at: 2019-12-11 15:22:13  
End at: 2019-12-11 15:22:43  
Local clock offset: 3.677 ms  
Remote clock offset: -10.011 ms

# Below is generated by plot.py at 2019-12-11 17:39:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 31.80 Mbit/s  
95th percentile per-packet one-way delay: 25.326 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 16.06 Mbit/s  
95th percentile per-packet one-way delay: 25.206 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 15.84 Mbit/s  
95th percentile per-packet one-way delay: 25.201 ms  
Loss rate: 0.31%  
-- Flow 3:  
Average throughput: 15.83 Mbit/s  
95th percentile per-packet one-way delay: 25.810 ms  
Loss rate: 0.62%

## Run 2: Report of Sprout — Data Link

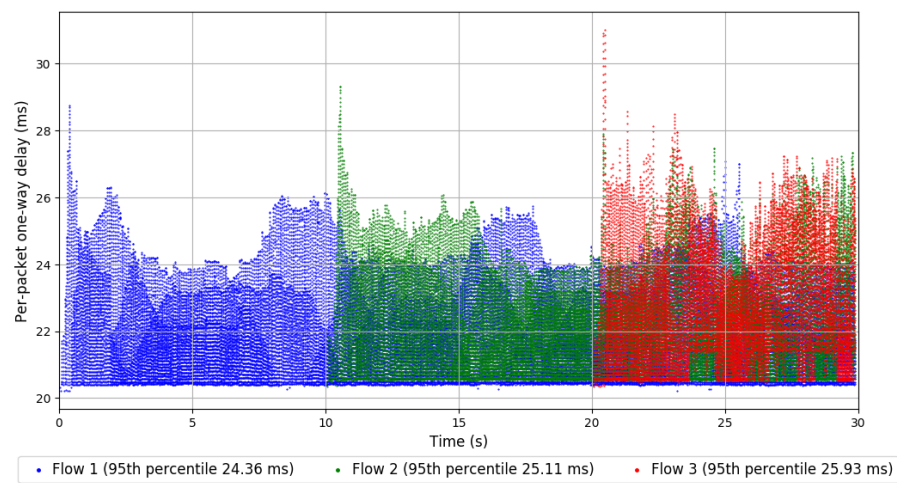
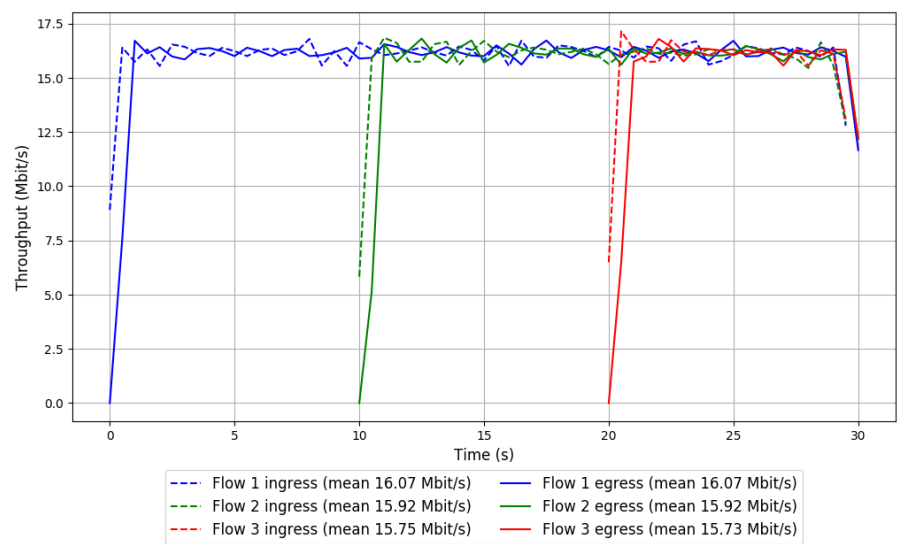


Run 3: Statistics of Sprout

Start at: 2019-12-11 15:52:49  
End at: 2019-12-11 15:53:19  
Local clock offset: 5.562 ms  
Remote clock offset: -8.605 ms

# Below is generated by plot.py at 2019-12-11 17:39:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 31.83 Mbit/s  
95th percentile per-packet one-way delay: 25.058 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 16.07 Mbit/s  
95th percentile per-packet one-way delay: 24.363 ms  
Loss rate: 0.20%  
-- Flow 2:  
Average throughput: 15.92 Mbit/s  
95th percentile per-packet one-way delay: 25.107 ms  
Loss rate: 0.20%  
-- Flow 3:  
Average throughput: 15.73 Mbit/s  
95th percentile per-packet one-way delay: 25.928 ms  
Loss rate: 0.46%

Run 3: Report of Sprout — Data Link

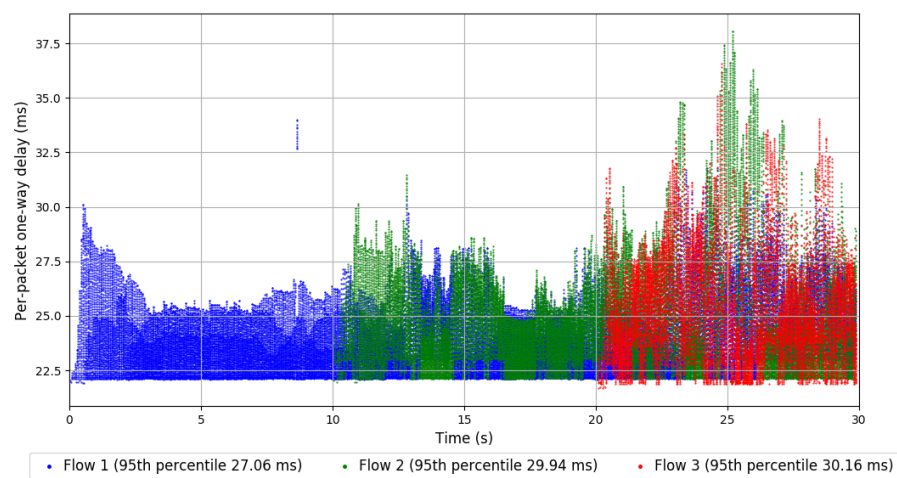
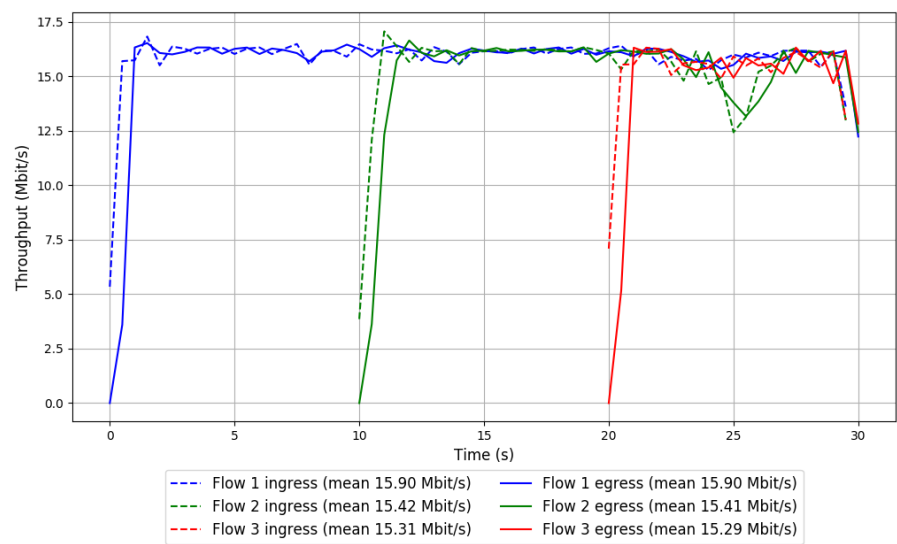


Run 4: Statistics of Sprout

Start at: 2019-12-11 16:23:20  
End at: 2019-12-11 16:23:50  
Local clock offset: 6.488 ms  
Remote clock offset: -8.149 ms

# Below is generated by plot.py at 2019-12-11 17:39:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 31.17 Mbit/s  
95th percentile per-packet one-way delay: 28.513 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 15.90 Mbit/s  
95th percentile per-packet one-way delay: 27.057 ms  
Loss rate: 0.20%  
-- Flow 2:  
Average throughput: 15.41 Mbit/s  
95th percentile per-packet one-way delay: 29.943 ms  
Loss rate: 0.26%  
-- Flow 3:  
Average throughput: 15.29 Mbit/s  
95th percentile per-packet one-way delay: 30.165 ms  
Loss rate: 0.47%

Run 4: Report of Sprout — Data Link

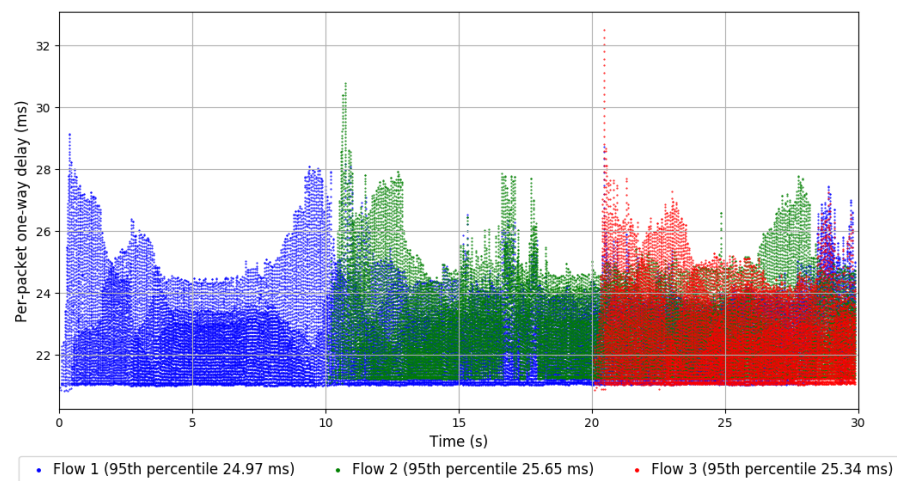
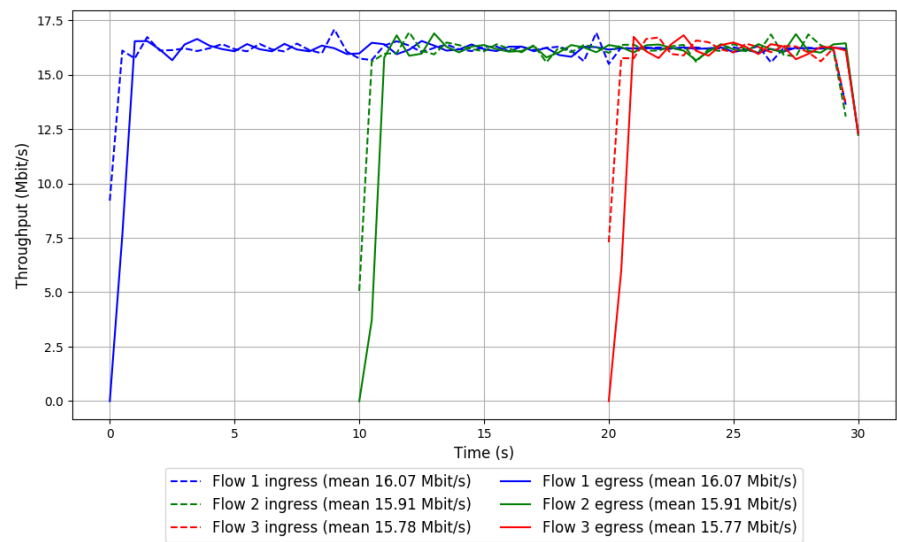


Run 5: Statistics of Sprout

Start at: 2019-12-11 16:54:30  
End at: 2019-12-11 16:55:00  
Local clock offset: 4.346 ms  
Remote clock offset: -6.122 ms

# Below is generated by plot.py at 2019-12-11 17:39:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 31.83 Mbit/s  
95th percentile per-packet one-way delay: 25.272 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 16.07 Mbit/s  
95th percentile per-packet one-way delay: 24.968 ms  
Loss rate: 0.20%  
-- Flow 2:  
Average throughput: 15.91 Mbit/s  
95th percentile per-packet one-way delay: 25.648 ms  
Loss rate: 0.22%  
-- Flow 3:  
Average throughput: 15.77 Mbit/s  
95th percentile per-packet one-way delay: 25.340 ms  
Loss rate: 0.62%

Run 5: Report of Sprout — Data Link

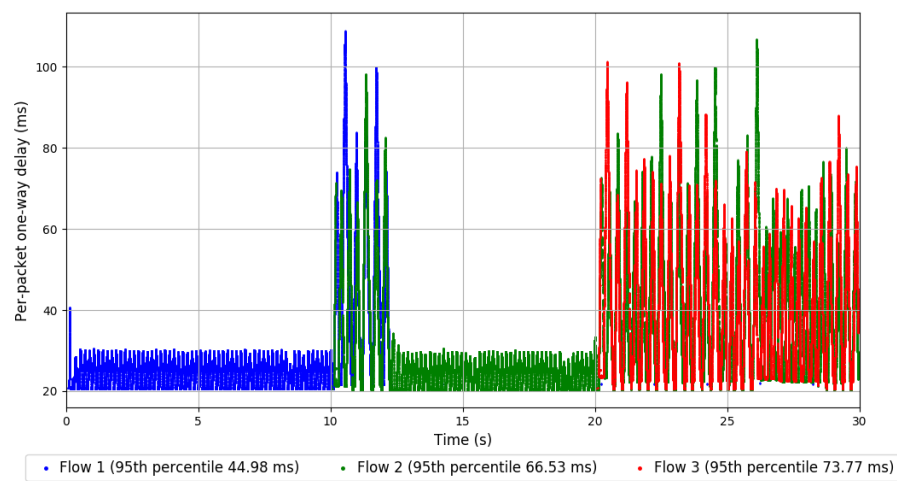
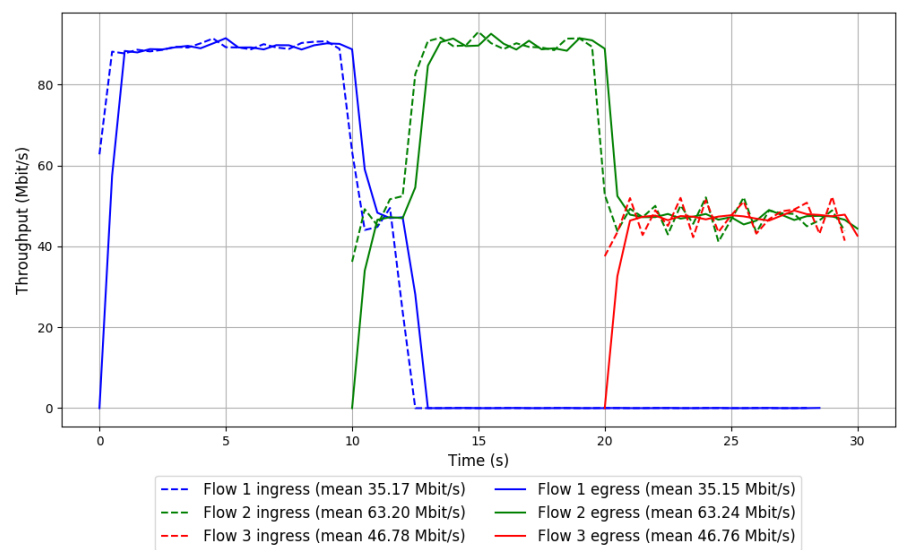


Run 1: Statistics of TaoVA-100x

Start at: 2019-12-11 15:14:14  
End at: 2019-12-11 15:14:44  
Local clock offset: 4.092 ms  
Remote clock offset: -9.054 ms

# Below is generated by plot.py at 2019-12-11 17:41:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.72 Mbit/s  
95th percentile per-packet one-way delay: 66.564 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 35.15 Mbit/s  
95th percentile per-packet one-way delay: 44.984 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 63.24 Mbit/s  
95th percentile per-packet one-way delay: 66.532 ms  
Loss rate: 0.18%  
-- Flow 3:  
Average throughput: 46.76 Mbit/s  
95th percentile per-packet one-way delay: 73.768 ms  
Loss rate: 0.56%

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

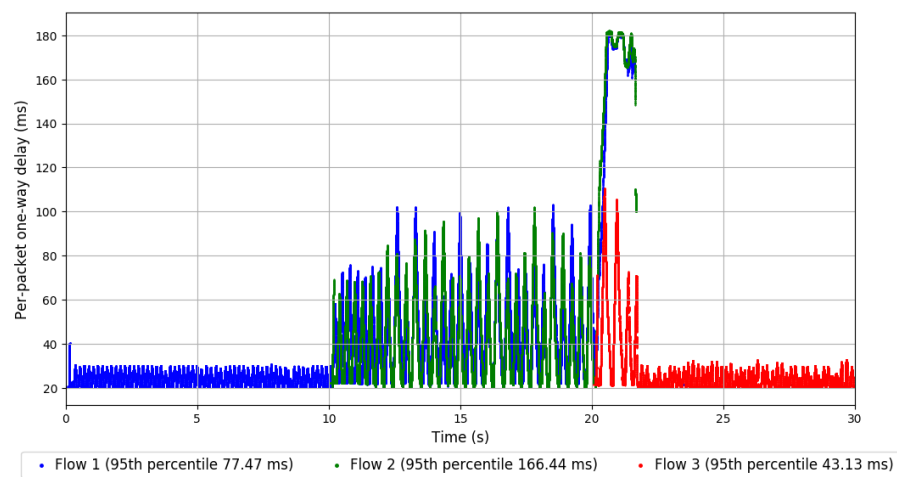
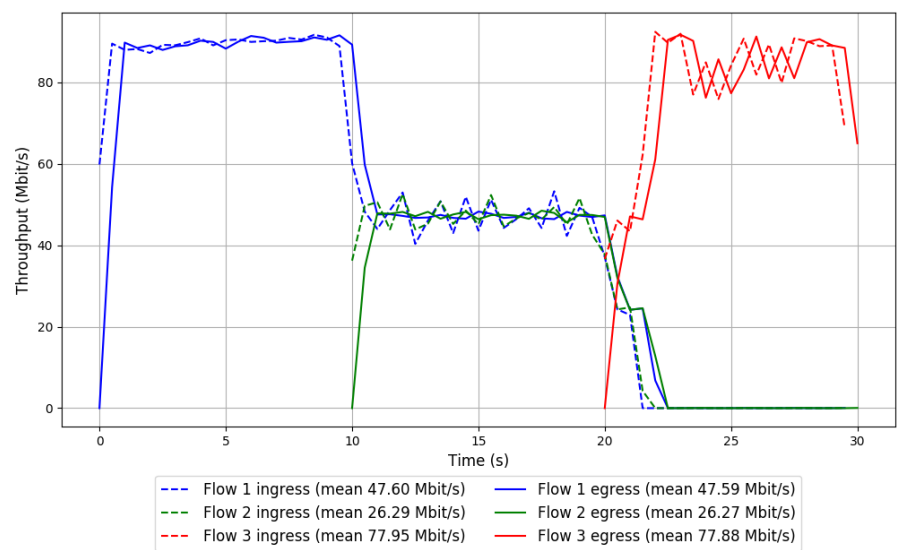


Run 2: Statistics of TaoVA-100x

Start at: 2019-12-11 15:45:09  
End at: 2019-12-11 15:45:39  
Local clock offset: 4.743 ms  
Remote clock offset: -9.176 ms

# Below is generated by plot.py at 2019-12-11 17:41:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.81 Mbit/s  
95th percentile per-packet one-way delay: 80.127 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 47.59 Mbit/s  
95th percentile per-packet one-way delay: 77.470 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 26.27 Mbit/s  
95th percentile per-packet one-way delay: 166.437 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 77.88 Mbit/s  
95th percentile per-packet one-way delay: 43.127 ms  
Loss rate: 0.59%

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

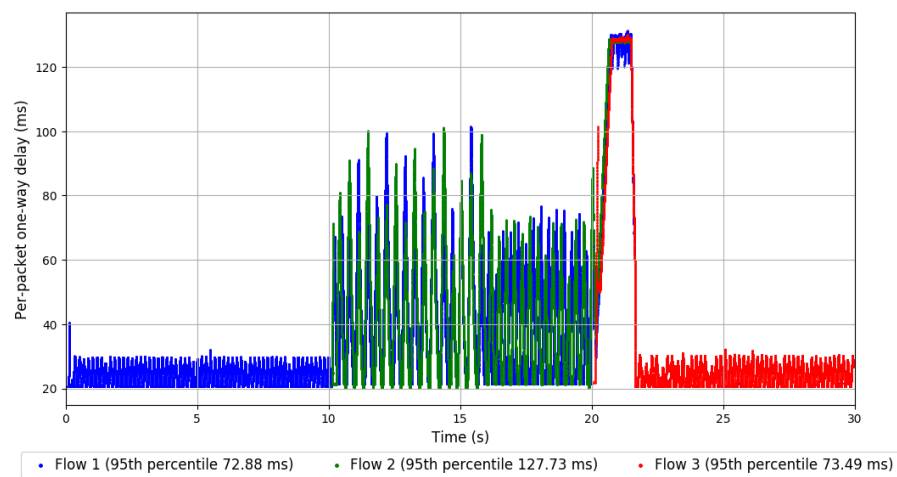
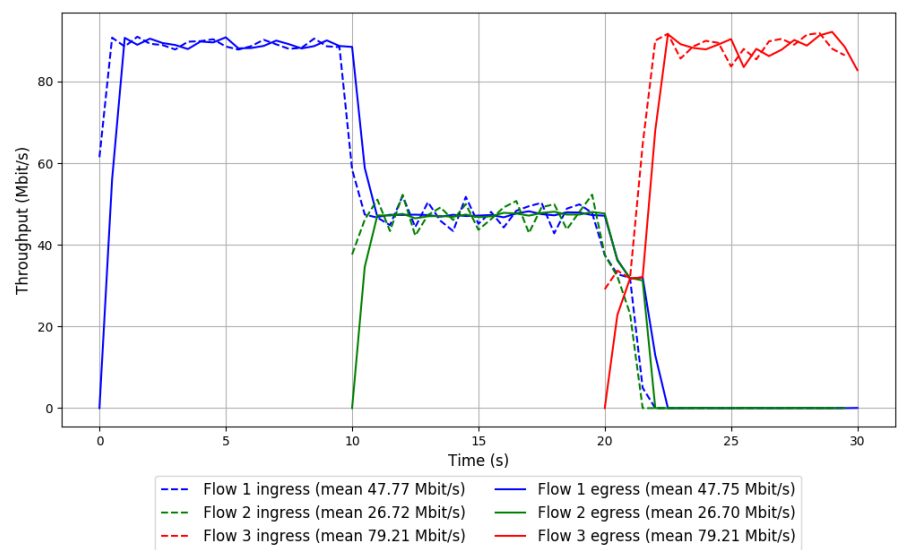


Run 3: Statistics of TaoVA-100x

Start at: 2019-12-11 16:15:26  
End at: 2019-12-11 16:15:56  
Local clock offset: 6.112 ms  
Remote clock offset: -7.555 ms

# Below is generated by plot.py at 2019-12-11 17:41:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.66 Mbit/s  
95th percentile per-packet one-way delay: 83.924 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 47.75 Mbit/s  
95th percentile per-packet one-way delay: 72.876 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 26.70 Mbit/s  
95th percentile per-packet one-way delay: 127.726 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 79.21 Mbit/s  
95th percentile per-packet one-way delay: 73.488 ms  
Loss rate: 0.54%

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

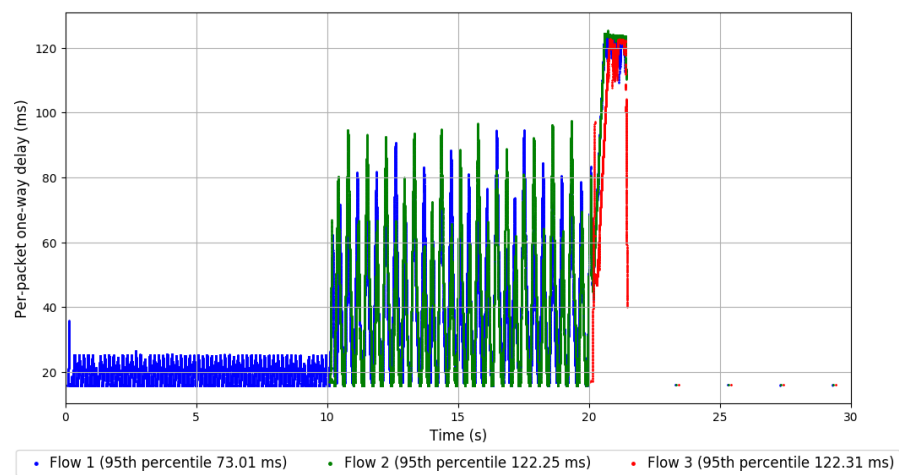
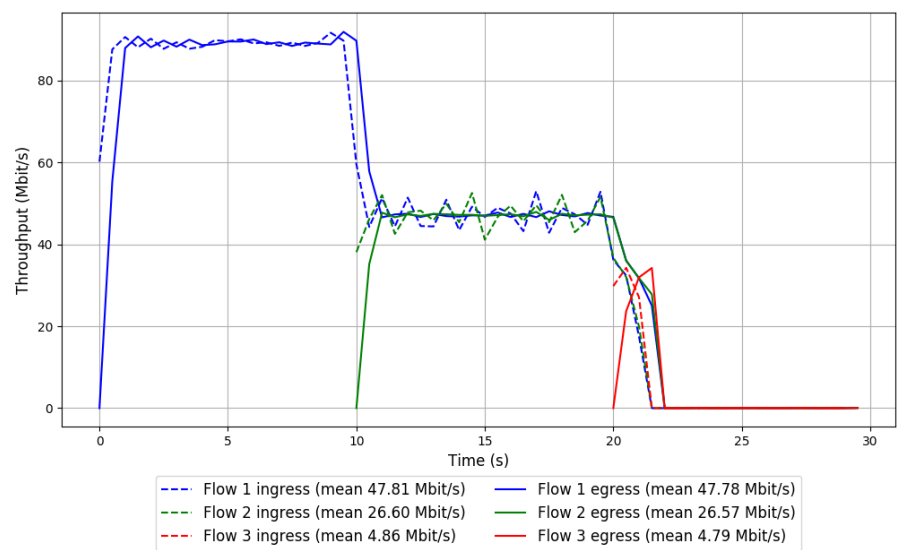


Run 4: Statistics of TaoVA-100x

Start at: 2019-12-11 16:46:36  
End at: 2019-12-11 16:47:06  
Local clock offset: 0.644 ms  
Remote clock offset: -5.472 ms

# Below is generated by plot.py at 2019-12-11 17:41:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 66.51 Mbit/s  
95th percentile per-packet one-way delay: 91.797 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 47.78 Mbit/s  
95th percentile per-packet one-way delay: 73.008 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 26.57 Mbit/s  
95th percentile per-packet one-way delay: 122.251 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 4.79 Mbit/s  
95th percentile per-packet one-way delay: 122.310 ms  
Loss rate: 1.44%

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

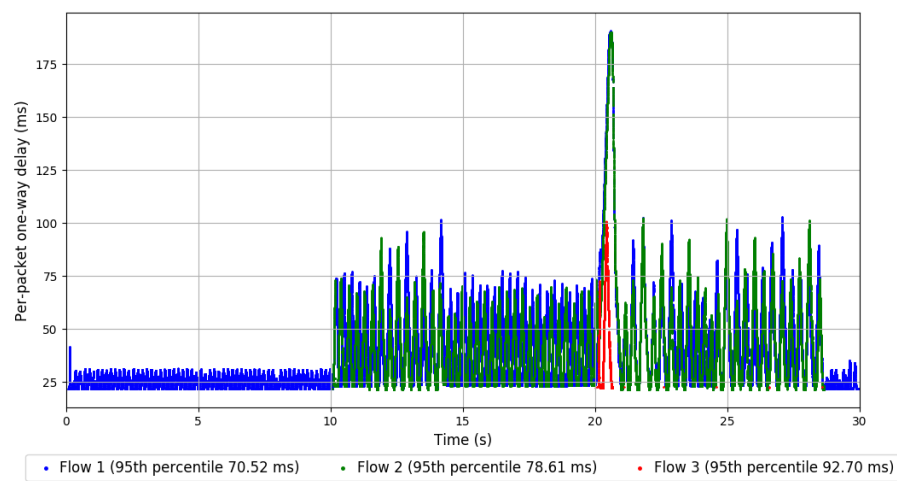
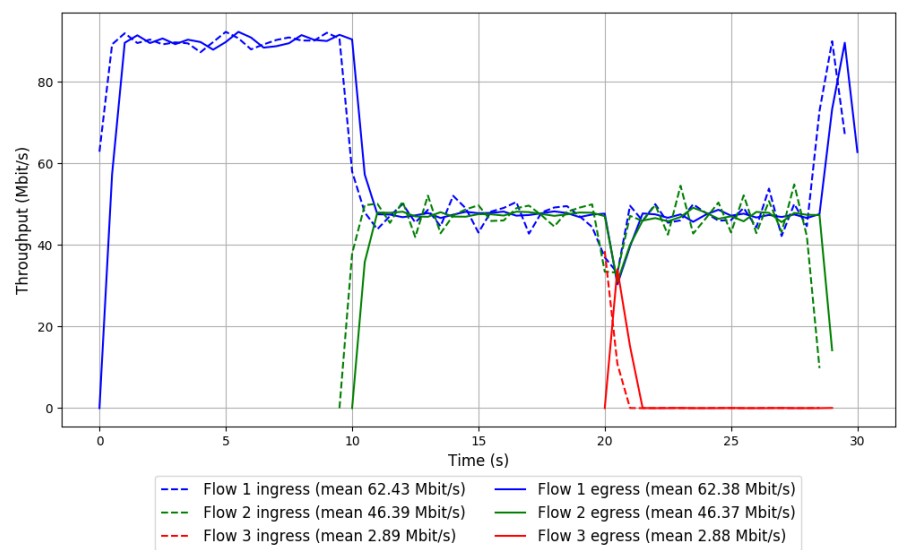


Run 5: Statistics of TaoVA-100x

Start at: 2019-12-11 17:17:21  
End at: 2019-12-11 17:17:51  
Local clock offset: 3.672 ms  
Remote clock offset: -6.874 ms

# Below is generated by plot.py at 2019-12-11 17:41:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.12 Mbit/s  
95th percentile per-packet one-way delay: 73.241 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 62.38 Mbit/s  
95th percentile per-packet one-way delay: 70.522 ms  
Loss rate: 0.25%  
-- Flow 2:  
Average throughput: 46.37 Mbit/s  
95th percentile per-packet one-way delay: 78.614 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 2.88 Mbit/s  
95th percentile per-packet one-way delay: 92.702 ms  
Loss rate: 0.28%

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

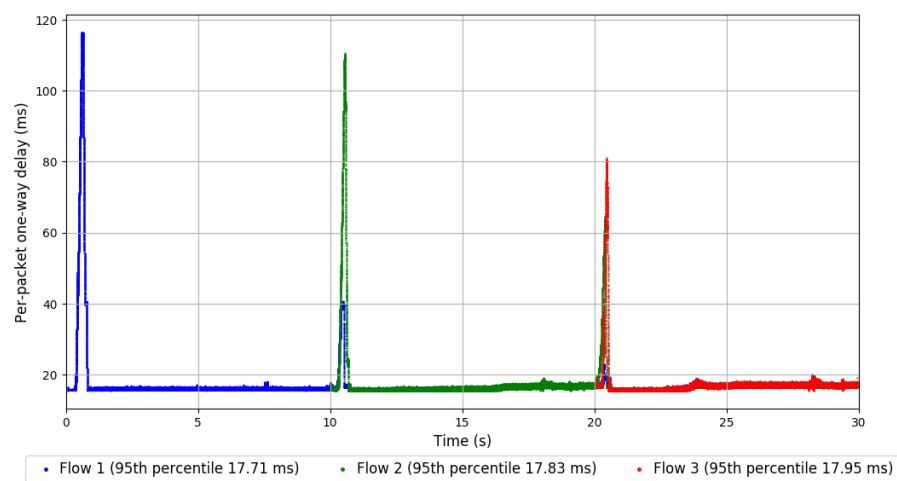
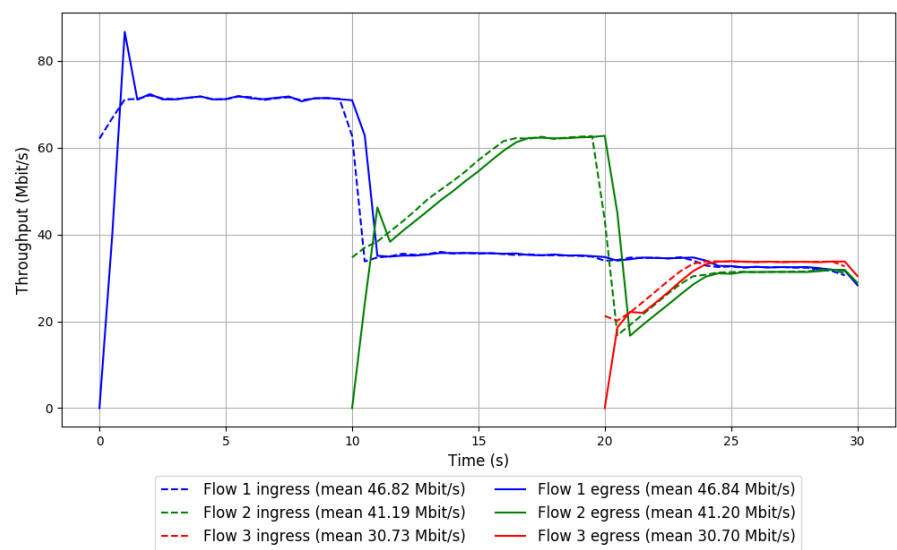


Run 1: Statistics of TCP Vegas

Start at: 2019-12-11 15:03:00  
End at: 2019-12-11 15:03:30  
Local clock offset: -0.805 ms  
Remote clock offset: -8.872 ms

# Below is generated by plot.py at 2019-12-11 17:41:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.43 Mbit/s  
95th percentile per-packet one-way delay: 17.817 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 46.84 Mbit/s  
95th percentile per-packet one-way delay: 17.707 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 41.20 Mbit/s  
95th percentile per-packet one-way delay: 17.826 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 30.70 Mbit/s  
95th percentile per-packet one-way delay: 17.951 ms  
Loss rate: 0.57%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-12-11 15:34:00

End at: 2019-12-11 15:34:30

Local clock offset: 4.892 ms

Remote clock offset: -8.98 ms

# Below is generated by plot.py at 2019-12-11 17:41:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.30 Mbit/s

95th percentile per-packet one-way delay: 26.661 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 50.93 Mbit/s

95th percentile per-packet one-way delay: 25.355 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 38.24 Mbit/s

95th percentile per-packet one-way delay: 27.500 ms

Loss rate: 0.27%

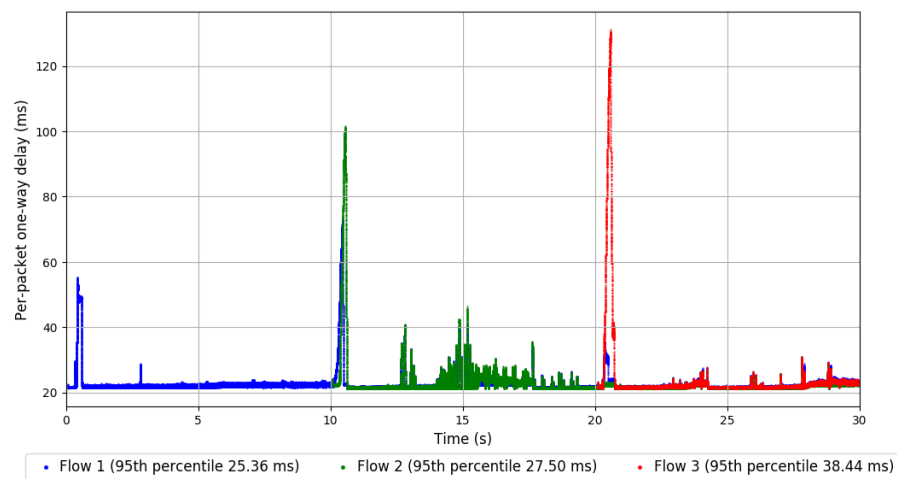
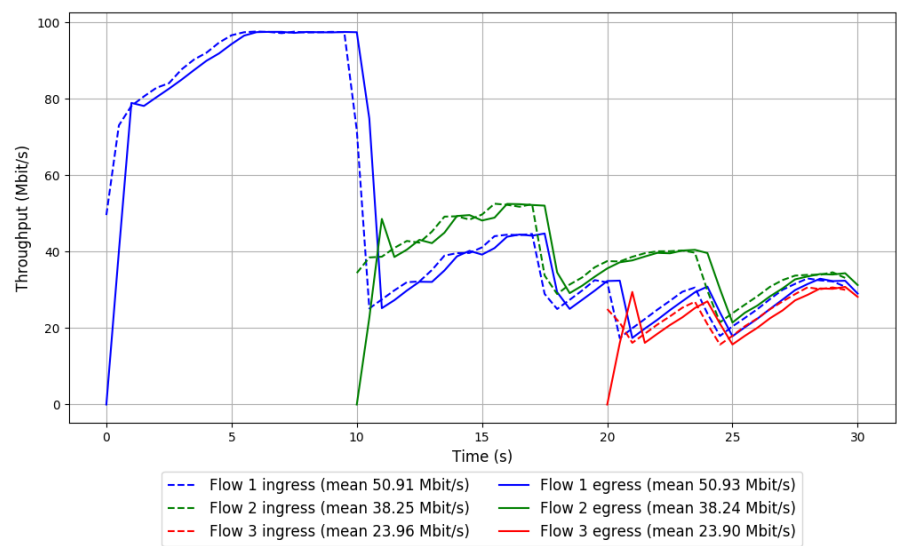
-- Flow 3:

Average throughput: 23.90 Mbit/s

95th percentile per-packet one-way delay: 38.443 ms

Loss rate: 0.75%

Run 2: Report of TCP Vegas — Data Link

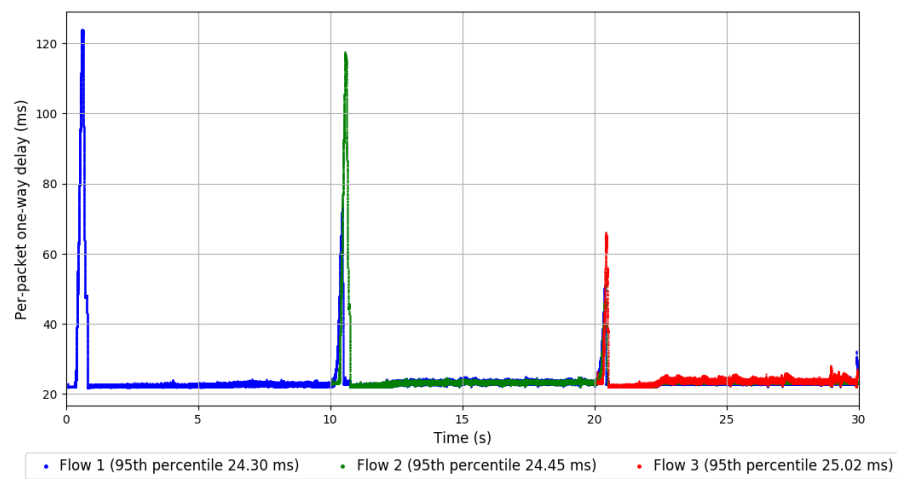
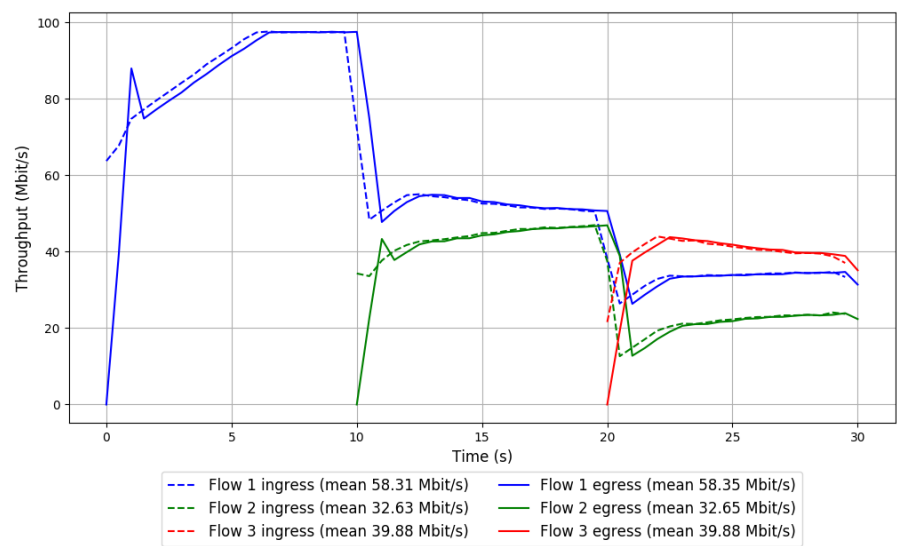


Run 3: Statistics of TCP Vegas

Start at: 2019-12-11 16:04:00  
End at: 2019-12-11 16:04:30  
Local clock offset: 6.26 ms  
Remote clock offset: -9.367 ms

# Below is generated by plot.py at 2019-12-11 17:41:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.29 Mbit/s  
95th percentile per-packet one-way delay: 24.800 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 58.35 Mbit/s  
95th percentile per-packet one-way delay: 24.300 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 32.65 Mbit/s  
95th percentile per-packet one-way delay: 24.451 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 39.88 Mbit/s  
95th percentile per-packet one-way delay: 25.024 ms  
Loss rate: 0.48%

Run 3: Report of TCP Vegas — Data Link

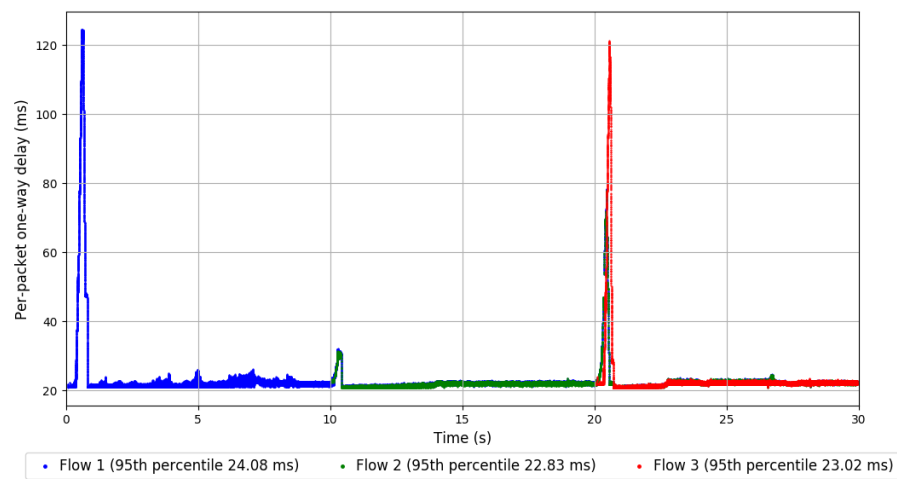
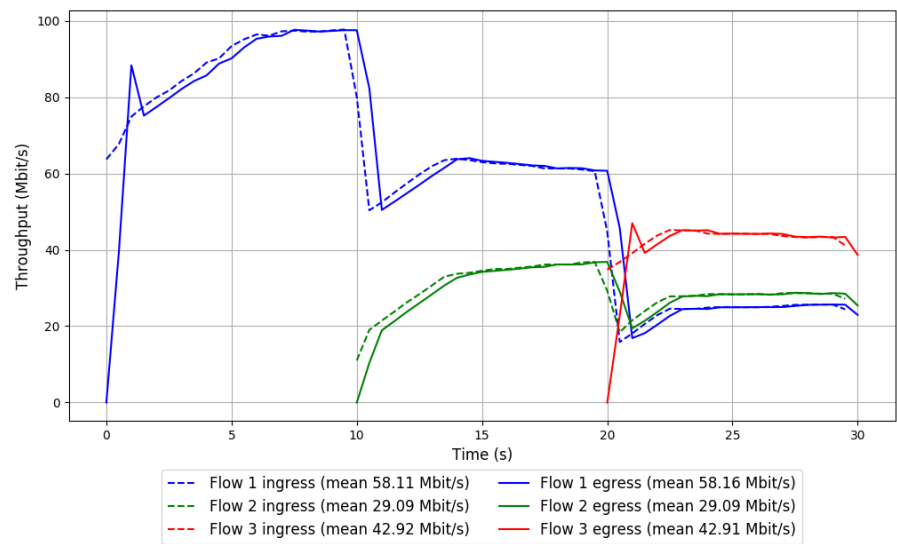


Run 4: Statistics of TCP Vegas

Start at: 2019-12-11 16:34:58  
End at: 2019-12-11 16:35:28  
Local clock offset: 6.349 ms  
Remote clock offset: -6.448 ms

# Below is generated by plot.py at 2019-12-11 17:41:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.73 Mbit/s  
95th percentile per-packet one-way delay: 23.614 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 58.16 Mbit/s  
95th percentile per-packet one-way delay: 24.079 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 29.09 Mbit/s  
95th percentile per-packet one-way delay: 22.829 ms  
Loss rate: 0.26%  
-- Flow 3:  
Average throughput: 42.91 Mbit/s  
95th percentile per-packet one-way delay: 23.020 ms  
Loss rate: 0.53%

Run 4: Report of TCP Vegas — Data Link

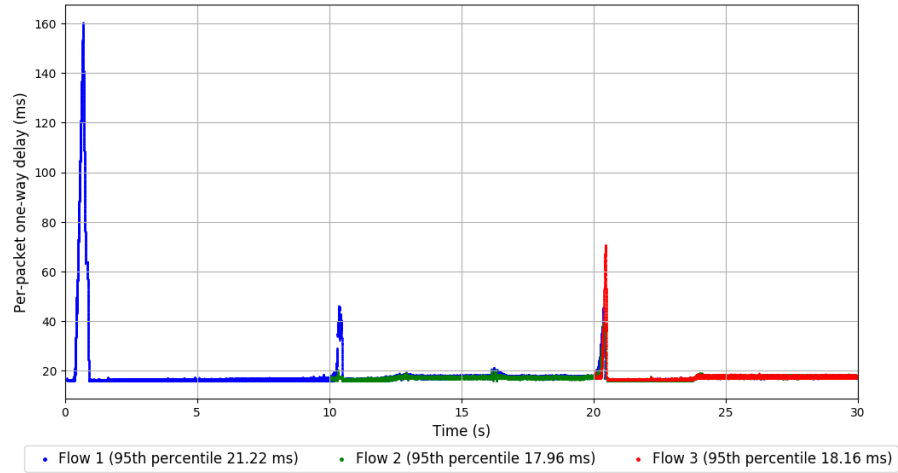
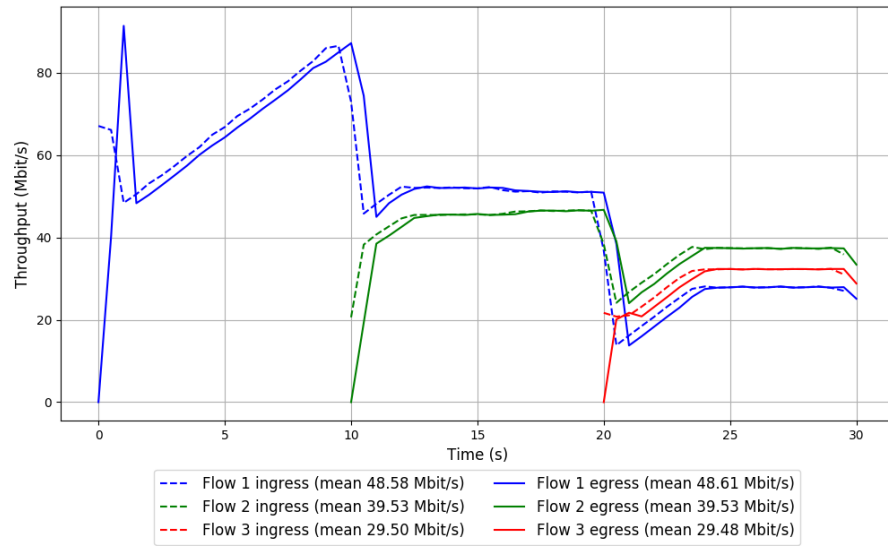


Run 5: Statistics of TCP Vegas

Start at: 2019-12-11 17:06:01  
End at: 2019-12-11 17:06:31  
Local clock offset: 0.307 ms  
Remote clock offset: -4.556 ms

# Below is generated by plot.py at 2019-12-11 17:41:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.68 Mbit/s  
95th percentile per-packet one-way delay: 18.253 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 48.61 Mbit/s  
95th percentile per-packet one-way delay: 21.222 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 39.53 Mbit/s  
95th percentile per-packet one-way delay: 17.958 ms  
Loss rate: 0.25%  
-- Flow 3:  
Average throughput: 29.48 Mbit/s  
95th percentile per-packet one-way delay: 18.156 ms  
Loss rate: 0.58%

# Run 5: Report of TCP Vegas — Data Link

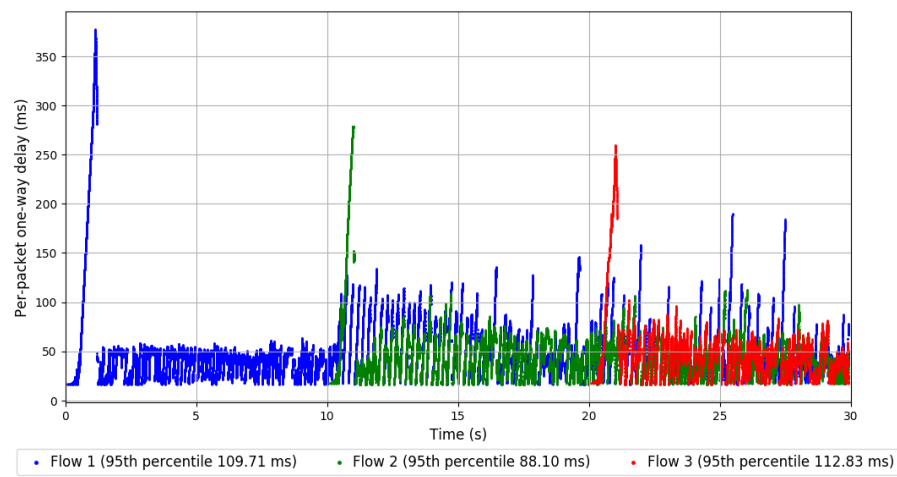
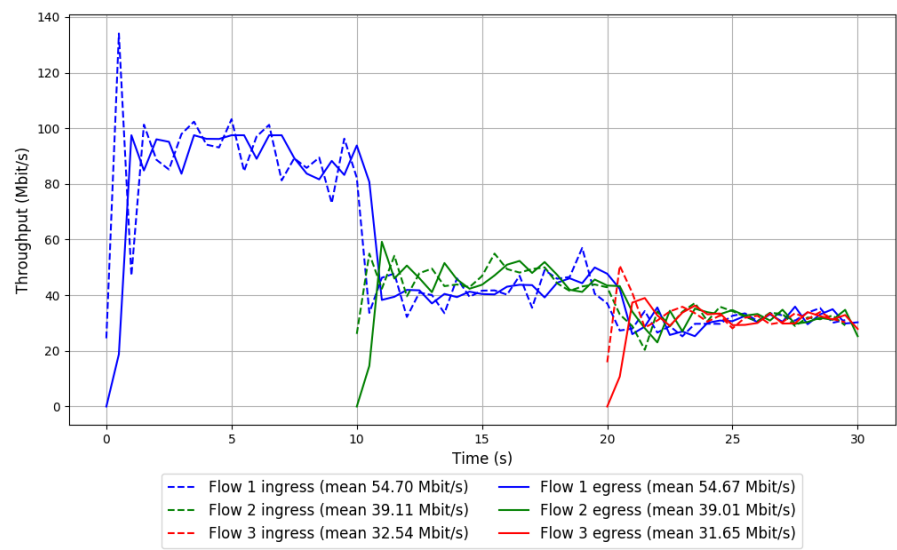


Run 1: Statistics of Verus

Start at: 2019-12-11 15:01:44  
End at: 2019-12-11 15:02:14  
Local clock offset: -0.628 ms  
Remote clock offset: -9.685 ms

# Below is generated by plot.py at 2019-12-11 17:41:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.09 Mbit/s  
95th percentile per-packet one-way delay: 104.237 ms  
Loss rate: 0.66%  
-- Flow 1:  
Average throughput: 54.67 Mbit/s  
95th percentile per-packet one-way delay: 109.706 ms  
Loss rate: 0.22%  
-- Flow 2:  
Average throughput: 39.01 Mbit/s  
95th percentile per-packet one-way delay: 88.096 ms  
Loss rate: 0.51%  
-- Flow 3:  
Average throughput: 31.65 Mbit/s  
95th percentile per-packet one-way delay: 112.832 ms  
Loss rate: 3.22%

Run 1: Report of Verus — Data Link

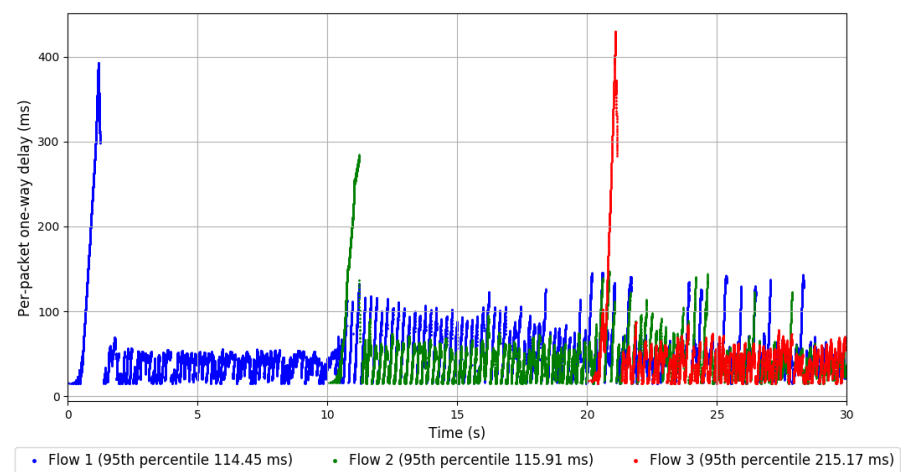
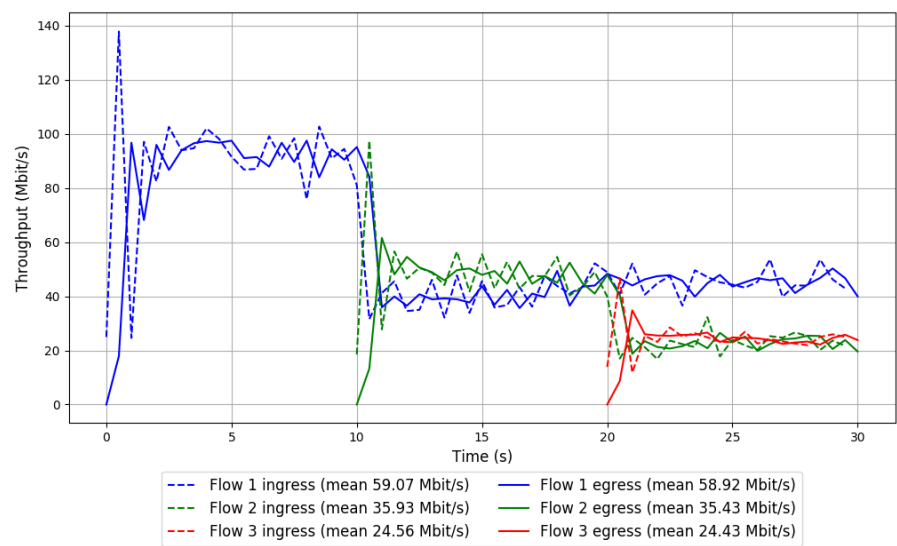


Run 2: Statistics of Verus

Start at: 2019-12-11 15:32:35  
End at: 2019-12-11 15:33:05  
Local clock offset: 0.058 ms  
Remote clock offset: -7.234 ms

# Below is generated by plot.py at 2019-12-11 17:41:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.59 Mbit/s  
95th percentile per-packet one-way delay: 116.411 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 58.92 Mbit/s  
95th percentile per-packet one-way delay: 114.449 ms  
Loss rate: 0.40%  
-- Flow 2:  
Average throughput: 35.43 Mbit/s  
95th percentile per-packet one-way delay: 115.909 ms  
Loss rate: 1.62%  
-- Flow 3:  
Average throughput: 24.43 Mbit/s  
95th percentile per-packet one-way delay: 215.167 ms  
Loss rate: 1.00%

Run 2: Report of Verus — Data Link

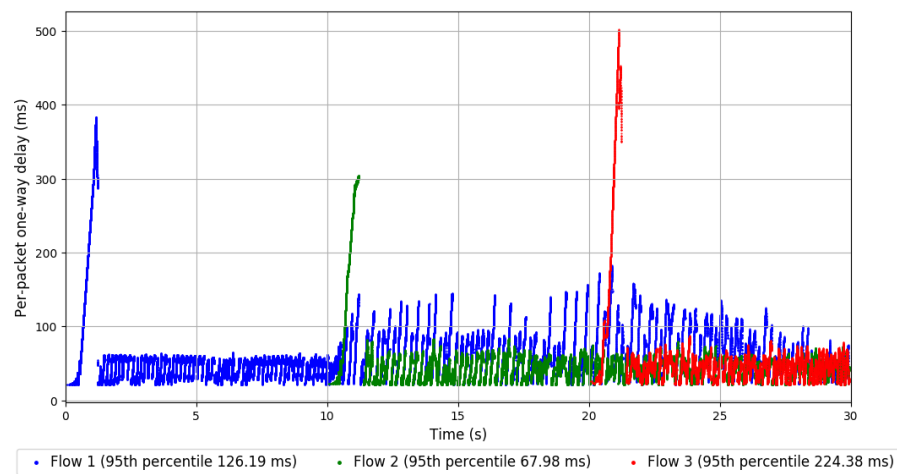
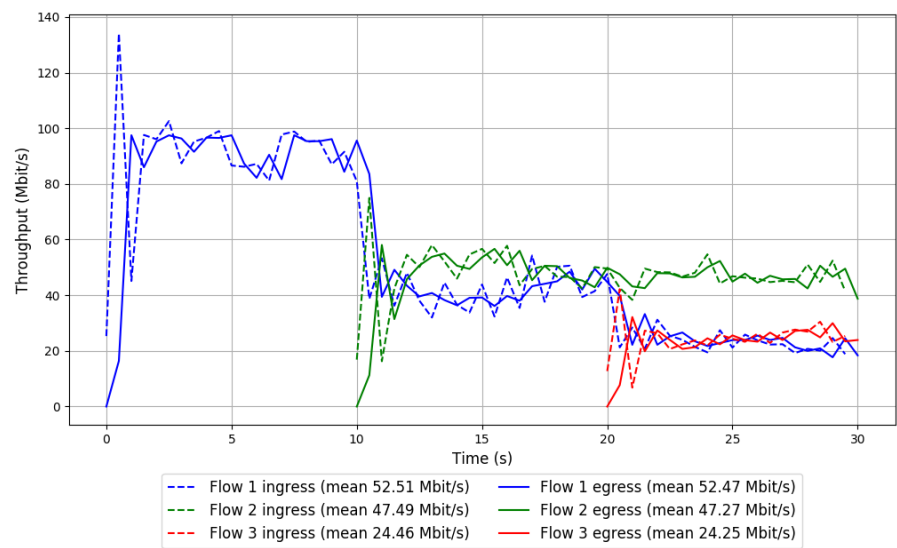


Run 3: Statistics of Verus

Start at: 2019-12-11 16:02:46  
End at: 2019-12-11 16:03:16  
Local clock offset: 6.539 ms  
Remote clock offset: -8.989 ms

# Below is generated by plot.py at 2019-12-11 17:42:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.94 Mbit/s  
95th percentile per-packet one-way delay: 118.839 ms  
Loss rate: 0.48%  
-- Flow 1:  
Average throughput: 52.47 Mbit/s  
95th percentile per-packet one-way delay: 126.188 ms  
Loss rate: 0.22%  
-- Flow 2:  
Average throughput: 47.27 Mbit/s  
95th percentile per-packet one-way delay: 67.981 ms  
Loss rate: 0.70%  
-- Flow 3:  
Average throughput: 24.25 Mbit/s  
95th percentile per-packet one-way delay: 224.383 ms  
Loss rate: 1.35%

Run 3: Report of Verus — Data Link

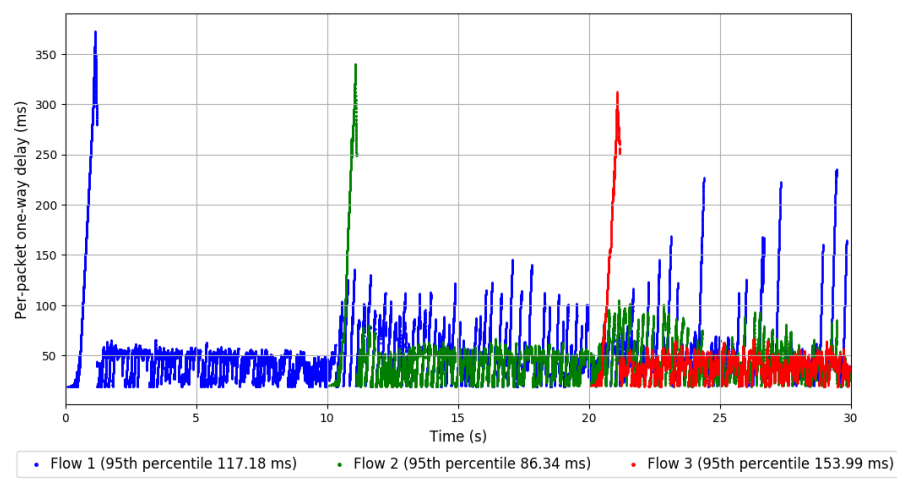
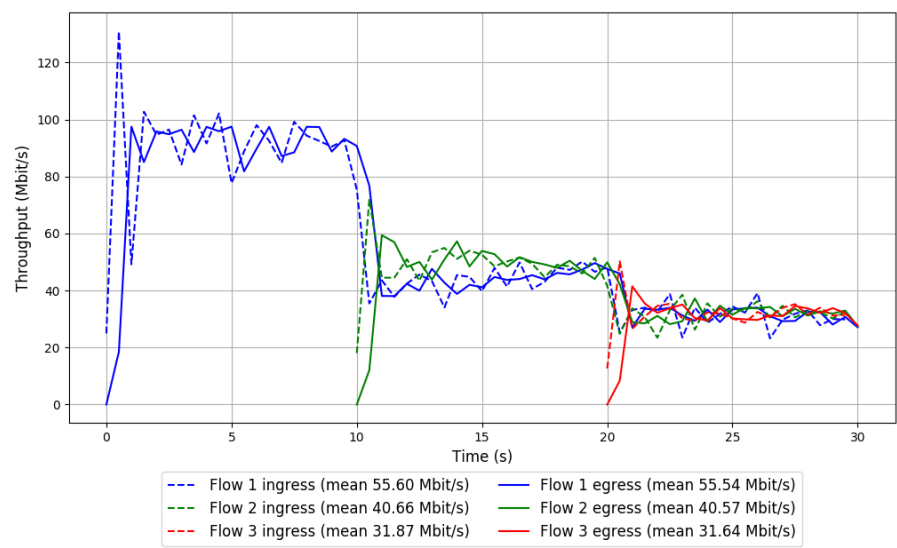


Run 4: Statistics of Verus

Start at: 2019-12-11 16:33:27  
End at: 2019-12-11 16:33:57  
Local clock offset: 6.061 ms  
Remote clock offset: -5.297 ms

# Below is generated by plot.py at 2019-12-11 17:42:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.99 Mbit/s  
95th percentile per-packet one-way delay: 110.739 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 55.54 Mbit/s  
95th percentile per-packet one-way delay: 117.180 ms  
Loss rate: 0.27%  
-- Flow 2:  
Average throughput: 40.57 Mbit/s  
95th percentile per-packet one-way delay: 86.339 ms  
Loss rate: 0.46%  
-- Flow 3:  
Average throughput: 31.64 Mbit/s  
95th percentile per-packet one-way delay: 153.993 ms  
Loss rate: 1.20%

Run 4: Report of Verus — Data Link

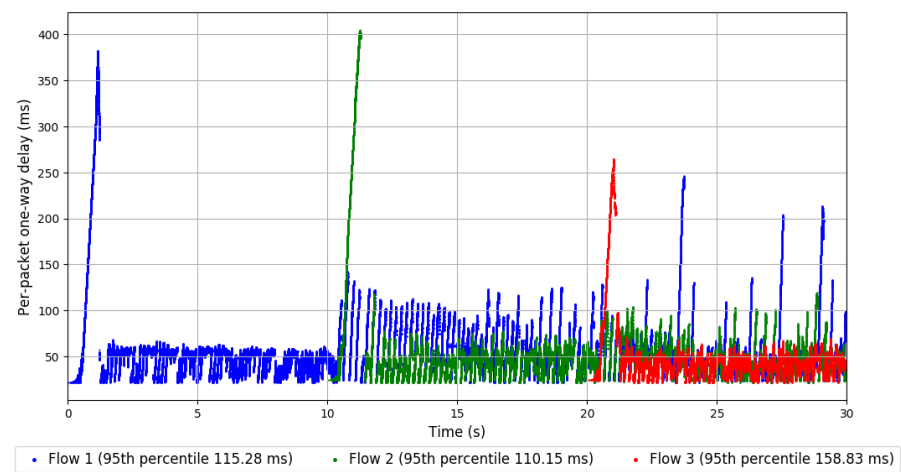
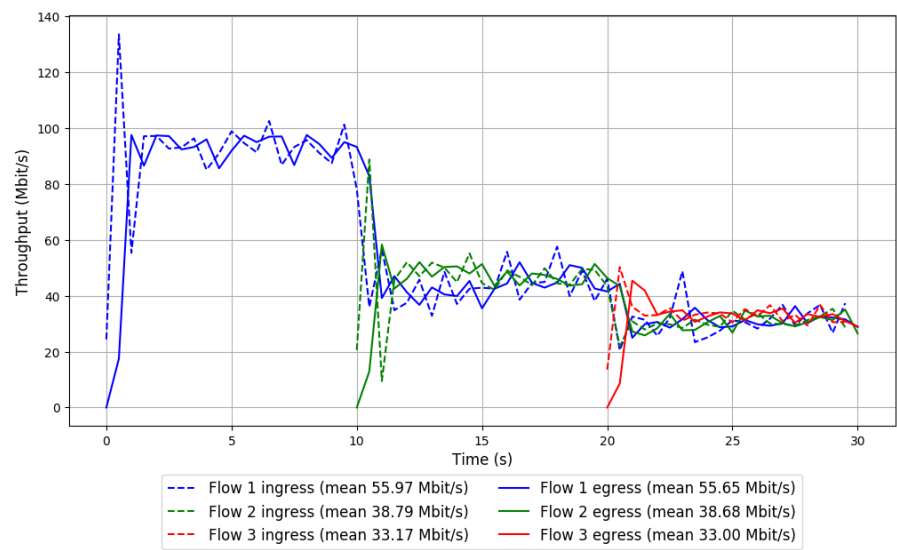


Run 5: Statistics of Verus

Start at: 2019-12-11 17:04:44  
End at: 2019-12-11 17:05:14  
Local clock offset: 4.358 ms  
Remote clock offset: -6.698 ms

```
# Below is generated by plot.py at 2019-12-11 17:42:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.31 Mbit/s
95th percentile per-packet one-way delay: 115.719 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 55.65 Mbit/s
95th percentile per-packet one-way delay: 115.281 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 38.68 Mbit/s
95th percentile per-packet one-way delay: 110.150 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 33.00 Mbit/s
95th percentile per-packet one-way delay: 158.831 ms
Loss rate: 0.90%
```

Run 5: Report of Verus — Data Link

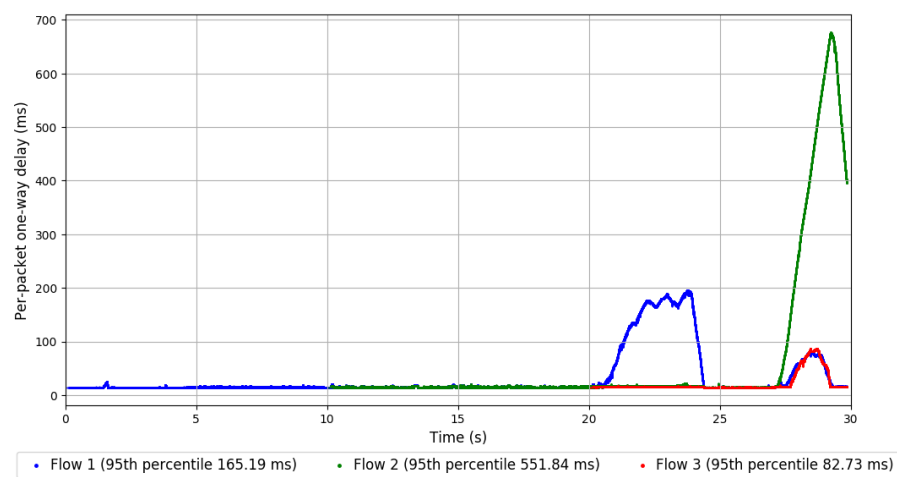
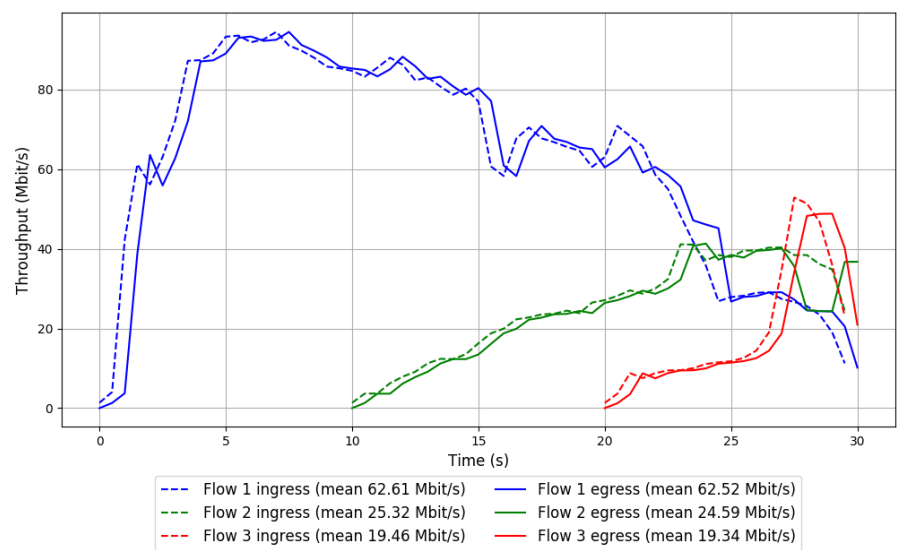


Run 1: Statistics of PCC-Vivace

Start at: 2019-12-11 14:55:22  
End at: 2019-12-11 14:55:52  
Local clock offset: 0.04 ms  
Remote clock offset: -7.478 ms

# Below is generated by plot.py at 2019-12-11 17:42:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.23 Mbit/s  
95th percentile per-packet one-way delay: 172.865 ms  
Loss rate: 0.92%  
-- Flow 1:  
Average throughput: 62.52 Mbit/s  
95th percentile per-packet one-way delay: 165.186 ms  
Loss rate: 0.30%  
-- Flow 2:  
Average throughput: 24.59 Mbit/s  
95th percentile per-packet one-way delay: 551.835 ms  
Loss rate: 3.13%  
-- Flow 3:  
Average throughput: 19.34 Mbit/s  
95th percentile per-packet one-way delay: 82.733 ms  
Loss rate: 1.15%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-12-11 15:25:50

End at: 2019-12-11 15:26:20

Local clock offset: 4.797 ms

Remote clock offset: -9.44 ms

# Below is generated by plot.py at 2019-12-11 17:42:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.20 Mbit/s

95th percentile per-packet one-way delay: 154.709 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 54.03 Mbit/s

95th percentile per-packet one-way delay: 82.307 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 33.89 Mbit/s

95th percentile per-packet one-way delay: 487.543 ms

Loss rate: 1.17%

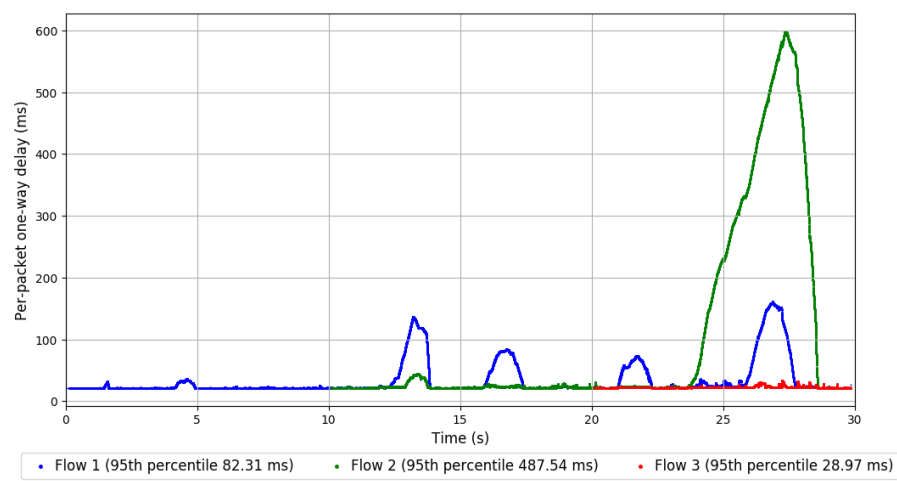
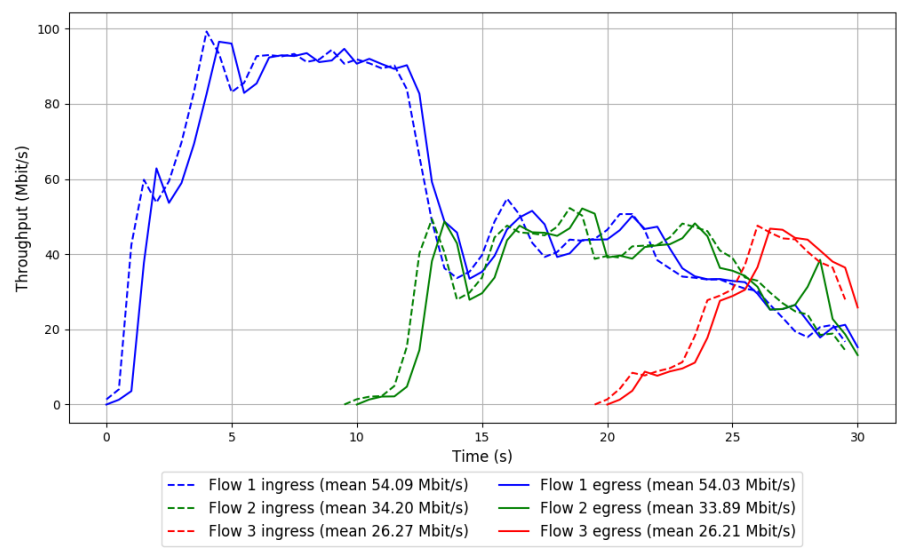
-- Flow 3:

Average throughput: 26.21 Mbit/s

95th percentile per-packet one-way delay: 28.974 ms

Loss rate: 0.72%

Run 2: Report of PCC-Vivace — Data Link

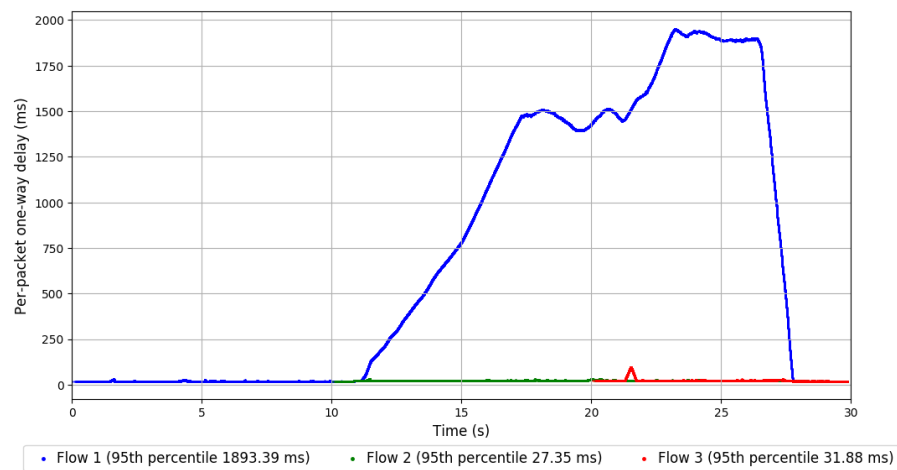
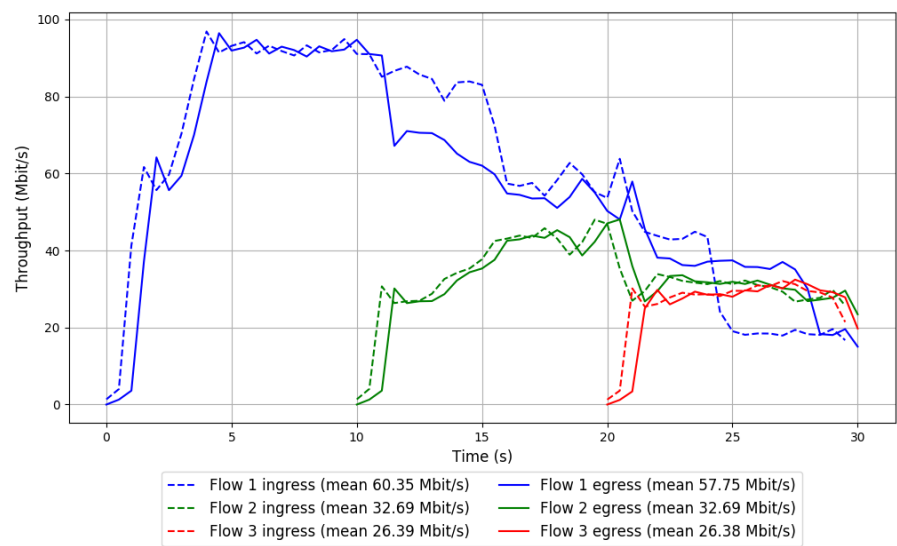


Run 3: Statistics of PCC-Vivace

Start at: 2019-12-11 15:56:28  
End at: 2019-12-11 15:56:58  
Local clock offset: 5.985 ms  
Remote clock offset: -6.806 ms

# Below is generated by plot.py at 2019-12-11 17:42:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.16 Mbit/s  
95th percentile per-packet one-way delay: 1849.417 ms  
Loss rate: 3.10%  
-- Flow 1:  
Average throughput: 57.75 Mbit/s  
95th percentile per-packet one-way delay: 1893.393 ms  
Loss rate: 4.48%  
-- Flow 2:  
Average throughput: 32.69 Mbit/s  
95th percentile per-packet one-way delay: 27.347 ms  
Loss rate: 0.28%  
-- Flow 3:  
Average throughput: 26.38 Mbit/s  
95th percentile per-packet one-way delay: 31.884 ms  
Loss rate: 0.56%

Run 3: Report of PCC-Vivace — Data Link

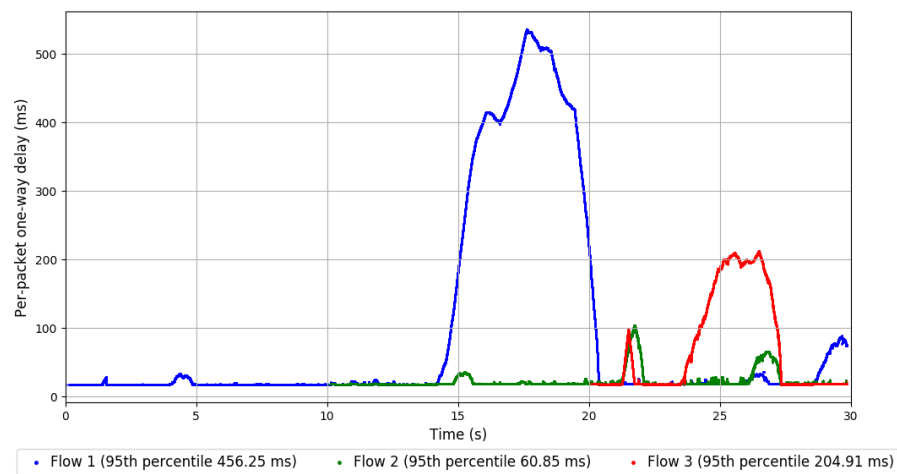
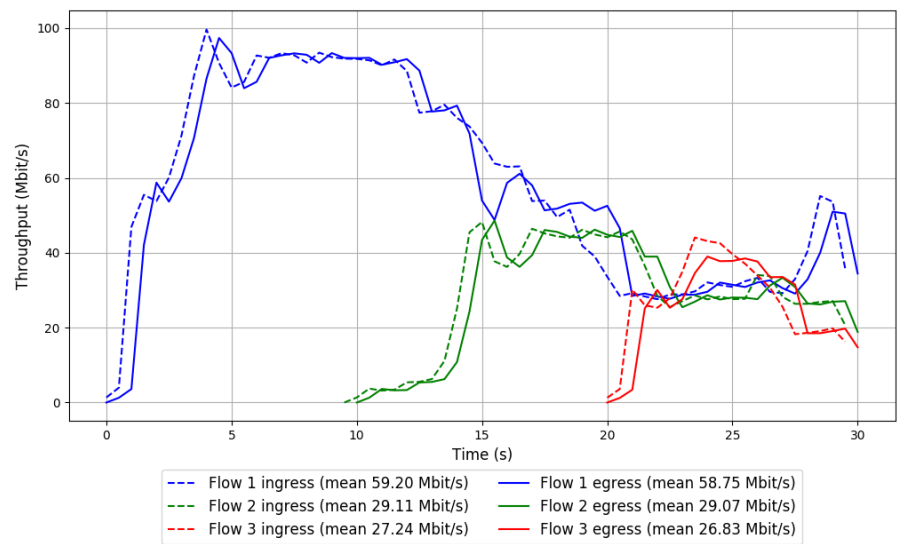


Run 4: Statistics of PCC-Vivace

Start at: 2019-12-11 16:27:01  
End at: 2019-12-11 16:27:31  
Local clock offset: 4.024 ms  
Remote clock offset: -6.582 ms

# Below is generated by plot.py at 2019-12-11 17:42:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.90 Mbit/s  
95th percentile per-packet one-way delay: 420.421 ms  
Loss rate: 0.91%  
-- Flow 1:  
Average throughput: 58.75 Mbit/s  
95th percentile per-packet one-way delay: 456.255 ms  
Loss rate: 0.92%  
-- Flow 2:  
Average throughput: 29.07 Mbit/s  
95th percentile per-packet one-way delay: 60.850 ms  
Loss rate: 0.39%  
-- Flow 3:  
Average throughput: 26.83 Mbit/s  
95th percentile per-packet one-way delay: 204.911 ms  
Loss rate: 1.95%

Run 4: Report of PCC-Vivace — Data Link

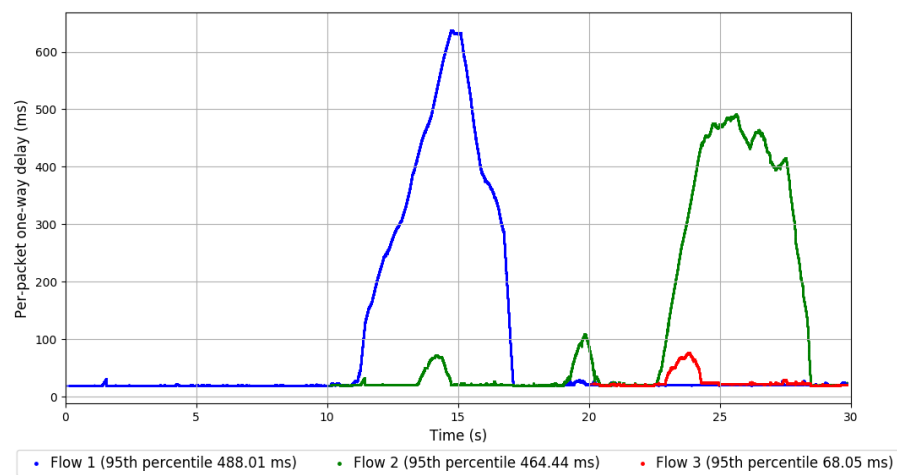
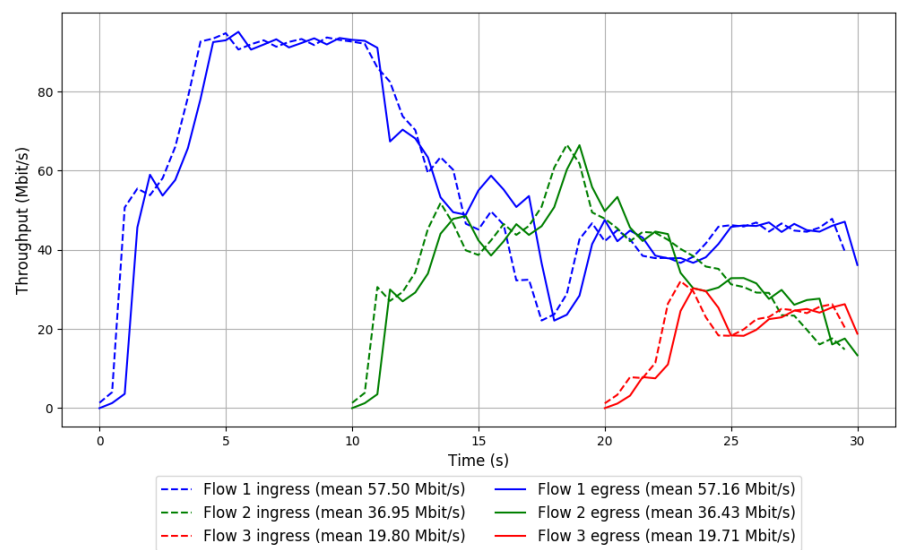


Run 5: Statistics of PCC-Vivace

Start at: 2019-12-11 16:58:07  
End at: 2019-12-11 16:58:37  
Local clock offset: 4.661 ms  
Remote clock offset: -4.098 ms

# Below is generated by plot.py at 2019-12-11 17:42:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.85 Mbit/s  
95th percentile per-packet one-way delay: 467.815 ms  
Loss rate: 1.02%  
-- Flow 1:  
Average throughput: 57.16 Mbit/s  
95th percentile per-packet one-way delay: 488.012 ms  
Loss rate: 0.76%  
-- Flow 2:  
Average throughput: 36.43 Mbit/s  
95th percentile per-packet one-way delay: 464.437 ms  
Loss rate: 1.63%  
-- Flow 3:  
Average throughput: 19.71 Mbit/s  
95th percentile per-packet one-way delay: 68.052 ms  
Loss rate: 0.98%

Run 5: Report of PCC-Vivace — Data Link

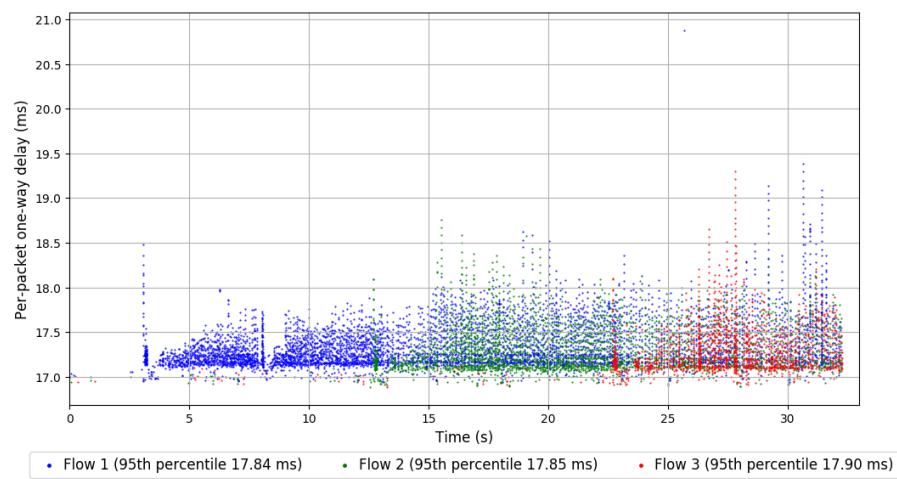
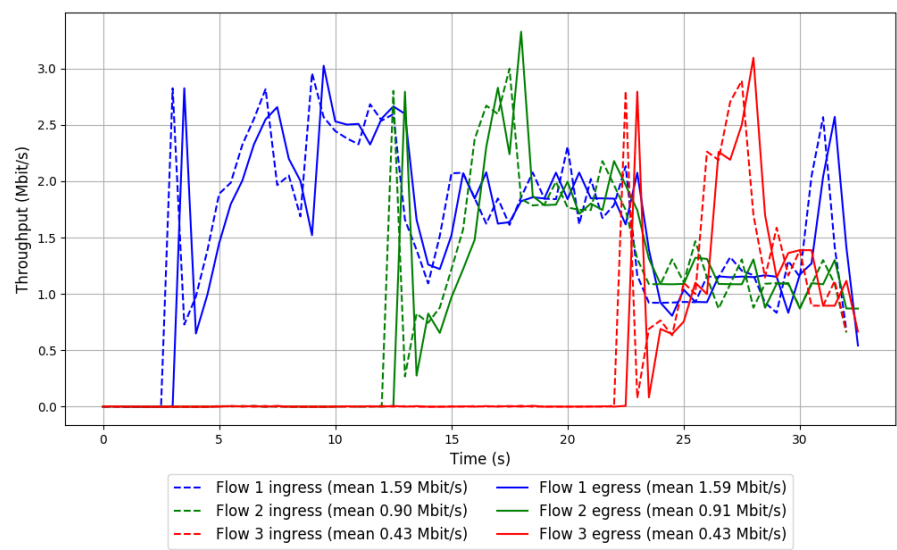


Run 1: Statistics of WebRTC media

Start at: 2019-12-11 15:09:29  
End at: 2019-12-11 15:09:59  
Local clock offset: 0.011 ms  
Remote clock offset: -9.597 ms

# Below is generated by plot.py at 2019-12-11 17:42:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.92 Mbit/s  
95th percentile per-packet one-way delay: 17.855 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 1.59 Mbit/s  
95th percentile per-packet one-way delay: 17.842 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 0.91 Mbit/s  
95th percentile per-packet one-way delay: 17.854 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 17.900 ms  
Loss rate: 0.01%

Run 1: Report of WebRTC media — Data Link

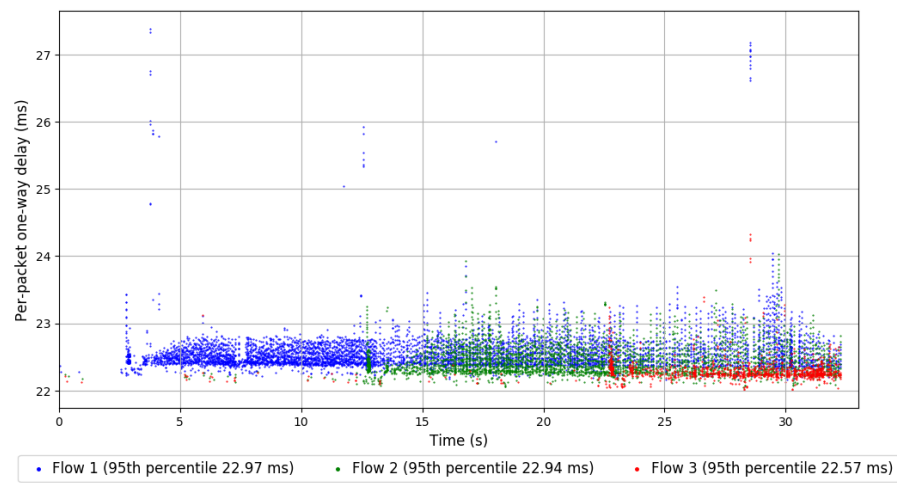
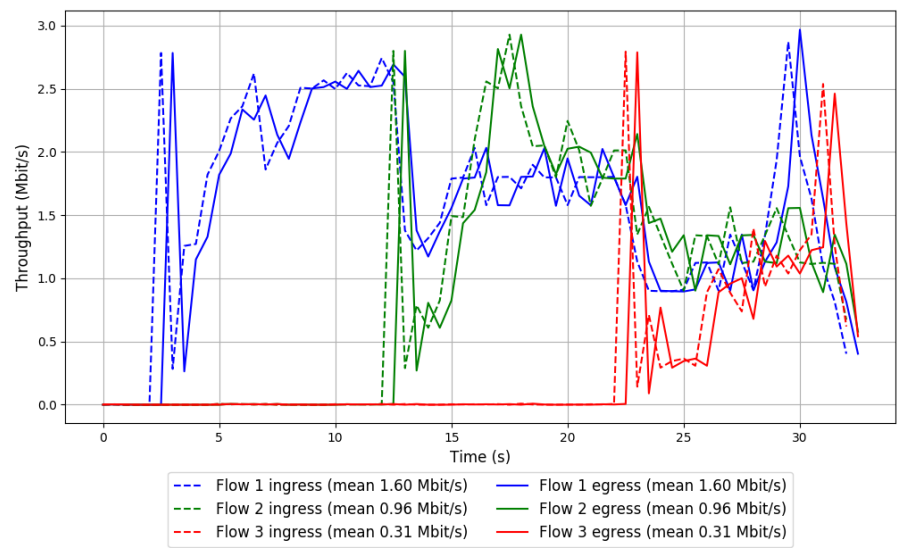


Run 2: Statistics of WebRTC media

Start at: 2019-12-11 15:40:09  
End at: 2019-12-11 15:40:39  
Local clock offset: 4.624 ms  
Remote clock offset: -10.544 ms

# Below is generated by plot.py at 2019-12-11 17:42:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.86 Mbit/s  
95th percentile per-packet one-way delay: 22.943 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 1.60 Mbit/s  
95th percentile per-packet one-way delay: 22.972 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.96 Mbit/s  
95th percentile per-packet one-way delay: 22.941 ms  
Loss rate: 0.15%  
-- Flow 3:  
Average throughput: 0.31 Mbit/s  
95th percentile per-packet one-way delay: 22.571 ms  
Loss rate: 0.39%

Run 2: Report of WebRTC media — Data Link

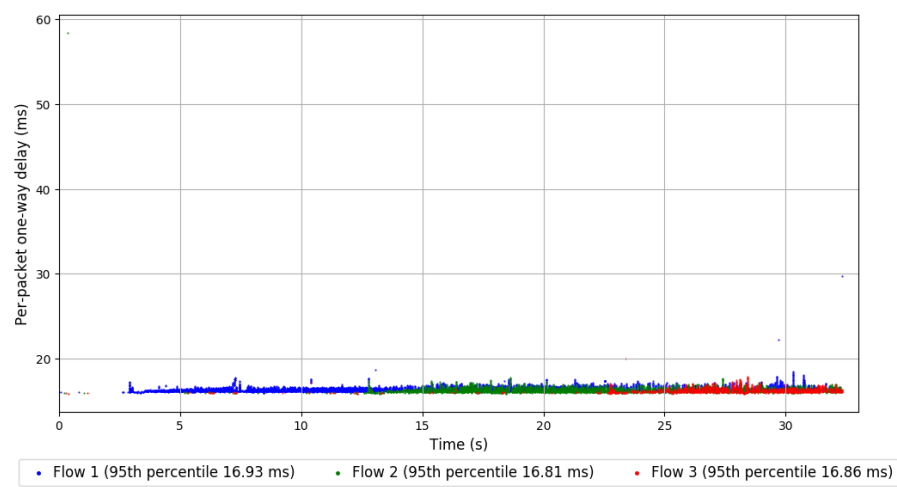
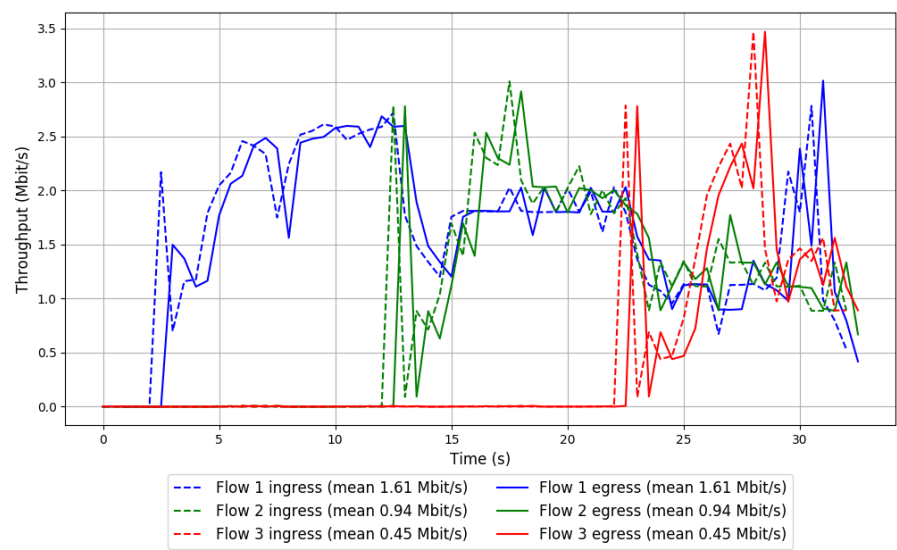


Run 3: Statistics of WebRTC media

Start at: 2019-12-11 16:10:20  
End at: 2019-12-11 16:10:50  
Local clock offset: 1.691 ms  
Remote clock offset: -7.786 ms

# Below is generated by plot.py at 2019-12-11 17:42:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.99 Mbit/s  
95th percentile per-packet one-way delay: 16.869 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 1.61 Mbit/s  
95th percentile per-packet one-way delay: 16.926 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 0.94 Mbit/s  
95th percentile per-packet one-way delay: 16.810 ms  
Loss rate: 0.37%  
-- Flow 3:  
Average throughput: 0.45 Mbit/s  
95th percentile per-packet one-way delay: 16.862 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

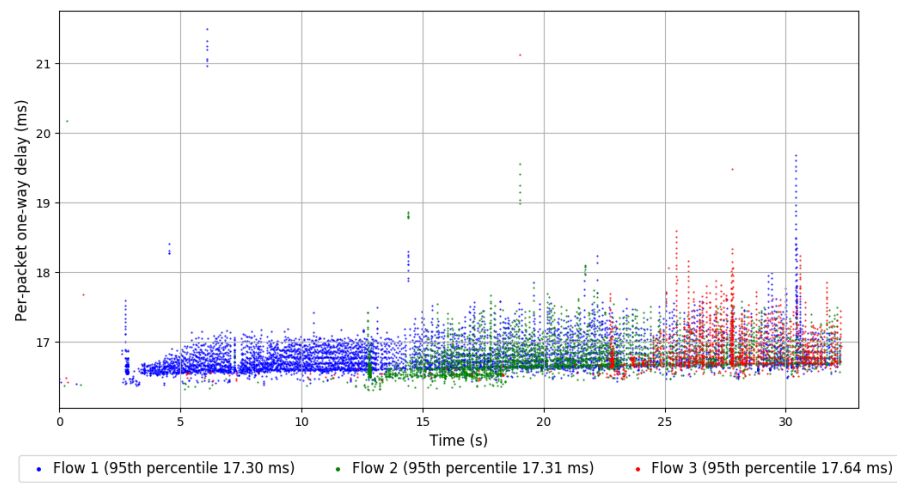
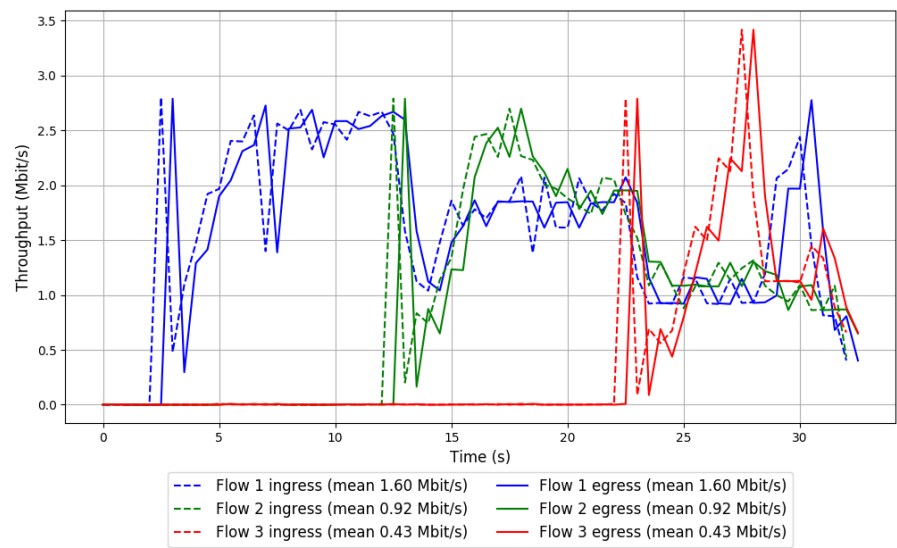


Run 4: Statistics of WebRTC media

Start at: 2019-12-11 16:41:34  
End at: 2019-12-11 16:42:04  
Local clock offset: 1.315 ms  
Remote clock offset: -6.247 ms

# Below is generated by plot.py at 2019-12-11 17:42:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.94 Mbit/s  
95th percentile per-packet one-way delay: 17.367 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 1.60 Mbit/s  
95th percentile per-packet one-way delay: 17.304 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 0.92 Mbit/s  
95th percentile per-packet one-way delay: 17.311 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 17.644 ms  
Loss rate: 0.01%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-12-11 17:12:25  
End at: 2019-12-11 17:12:55  
Local clock offset: 4.99 ms  
Remote clock offset: -7.225 ms

```
# Below is generated by plot.py at 2019-12-11 17:42:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.97 Mbit/s
95th percentile per-packet one-way delay: 23.901 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 1.58 Mbit/s
95th percentile per-packet one-way delay: 23.891 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 0.94 Mbit/s
95th percentile per-packet one-way delay: 23.888 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 23.954 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

