

Pantheon Report

Generated at 2018-12-20 09:56:04 (UTC).
Data path: Brazil on p4p1 (*remote*) → AWS Brazil 1 on ens5 (*local*).
Repeated the test of 19 congestion control schemes 5 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.
NTP offsets were measured against gps.ntp.br and have been applied to correct the timestamps in logs.

System info:

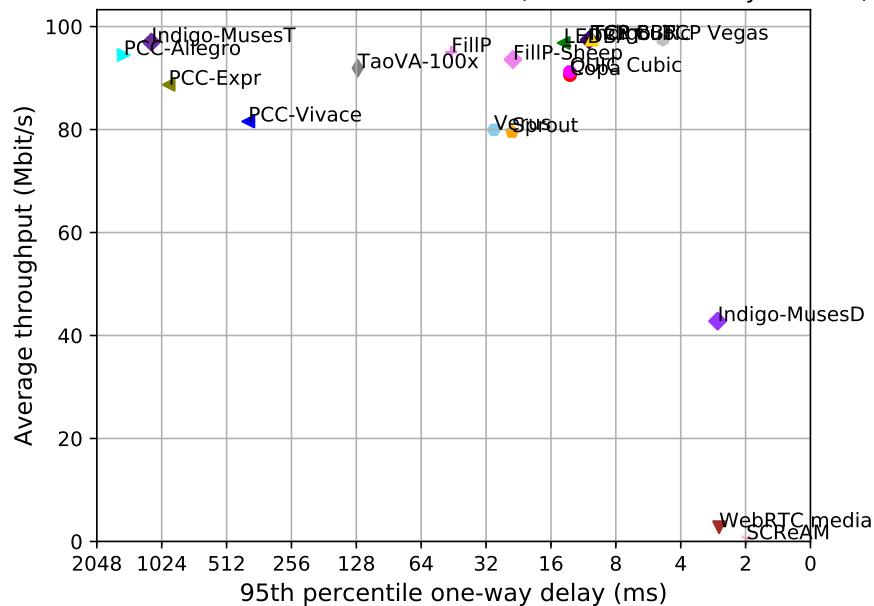
```
Linux 4.15.0-1029-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

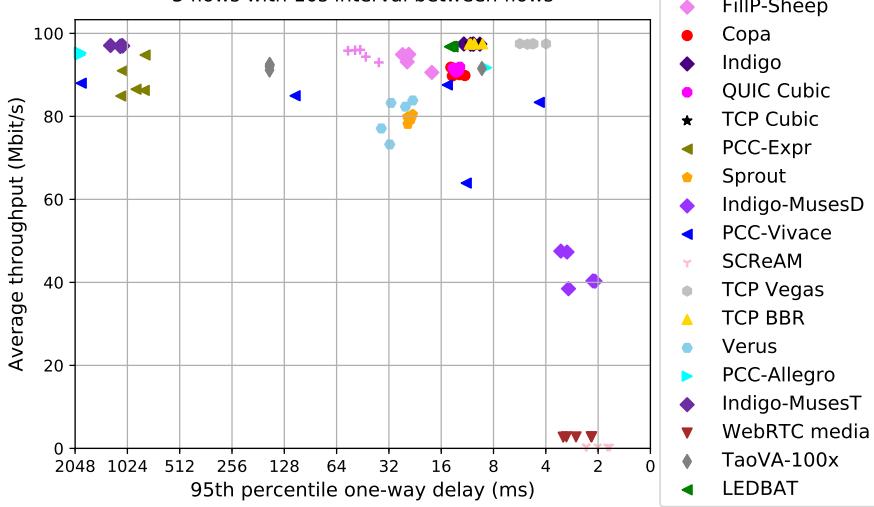
```
branch: muses @ c654af0b7d59d4ef4b914cfac404e1fc2e96dc68
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 65ac1b19bbefed0c6349ae986009b4fa8643c40a
third_party/muses-refactored @ 31f8f0ba8ef8b1da76c2bc0cd0a7850c33ff64fb
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd
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-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
```

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

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



test from Brazil to AWS Brazil 1, 5 runs of 30s each per scheme
3 flows with 10s interval between flows



↳

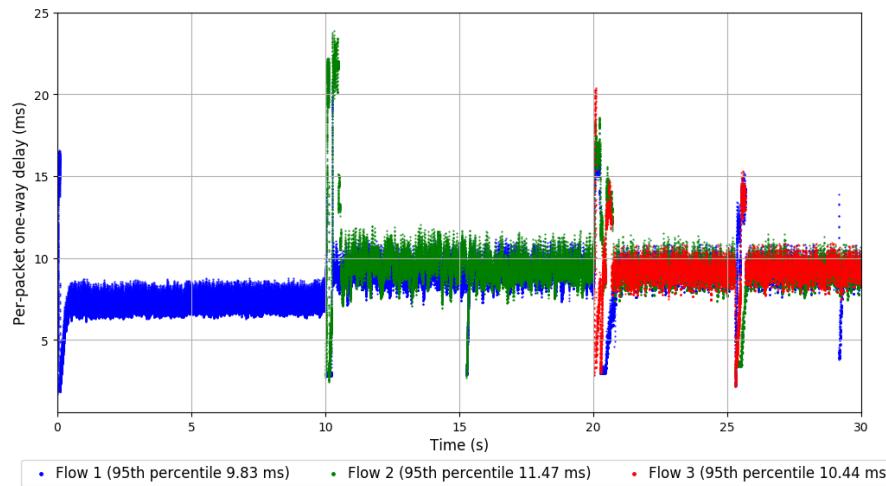
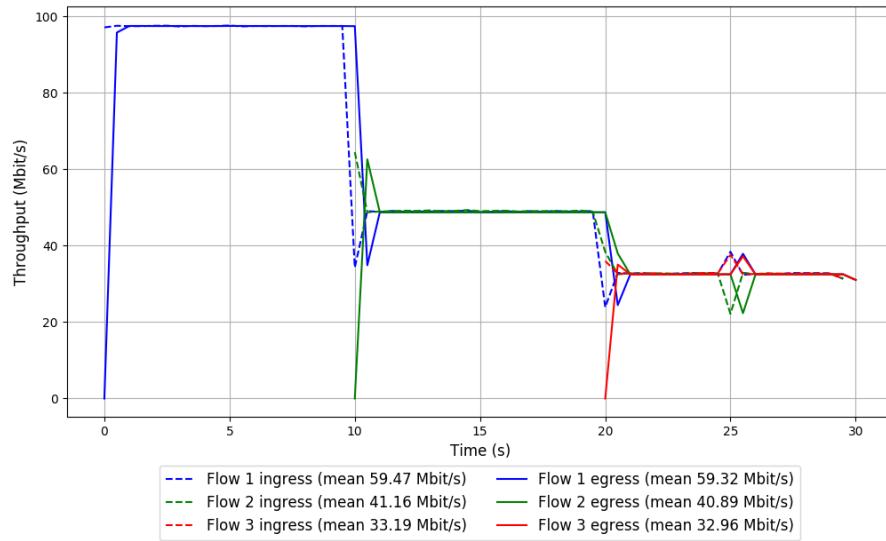
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	59.26	40.92	32.99	10.00	10.80	10.68	0.31	0.65	0.77
Copa	5	53.69	40.05	30.80	11.95	13.43	15.50	0.04	0.09	0.17
TCP Cubic	5	59.60	40.60	32.49	10.44	10.39	10.59	0.08	0.16	0.24
FillP	5	53.55	48.08	28.54	29.85	54.41	48.34	0.11	1.79	1.29
FillP-Sheep	5	58.67	38.58	27.87	22.04	23.89	24.62	0.03	0.10	0.11
Indigo	5	59.69	40.67	32.46	9.37	11.04	9.42	0.04	1.57	0.56
Indigo-MusesD	5	22.29	18.98	23.75	2.59	2.70	2.93	0.01	0.02	0.04
Indigo-MusesT	5	60.38	41.08	32.50	1083.36	1185.81	1202.30	24.22	41.19	43.21
LEDBAT	5	59.18	40.36	32.40	13.84	14.28	13.54	0.14	0.22	0.37
PCC-Allegro	5	62.20	37.06	23.17	1553.91	289.94	13.02	7.89	2.99	0.12
PCC-Expr	5	61.48	24.64	32.84	731.05	487.45	180.89	12.51	3.21	1.78
QUIC Cubic	5	54.22	40.11	31.15	12.75	13.12	13.48	0.16	0.32	0.51
SCReAM	5	0.22	0.22	0.22	1.98	1.97	1.97	0.00	0.00	0.21
Sprout	5	42.88	39.09	32.23	22.59	24.30	25.84	0.10	0.17	0.44
TaoVA-100x	5	53.79	40.11	34.39	125.32	126.24	127.91	0.43	0.91	2.15
TCP Vegas	5	53.78	47.87	35.55	4.17	4.65	5.08	0.01	0.02	0.07
Verus	5	44.77	37.26	31.22	26.19	29.52	142.45	0.04	0.08	0.12
PCC-Vivace	5	49.93	34.25	26.85	38.09	421.63	71.36	0.05	2.54	1.22
WebRTC media	5	1.54	0.82	0.42	2.60	2.68	2.77	0.03	0.00	0.17

Run 1: Statistics of TCP BBR

```
Start at: 2018-12-20 08:05:39
End at: 2018-12-20 08:06:09
Local clock offset: -0.546 ms
Remote clock offset: -0.694 ms

# Below is generated by plot.py at 2018-12-20 09:44:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.50 Mbit/s
95th percentile per-packet one-way delay: 10.352 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 59.32 Mbit/s
95th percentile per-packet one-way delay: 9.830 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 40.89 Mbit/s
95th percentile per-packet one-way delay: 11.468 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 32.96 Mbit/s
95th percentile per-packet one-way delay: 10.444 ms
Loss rate: 0.76%
```

Run 1: Report of TCP BBR — Data Link

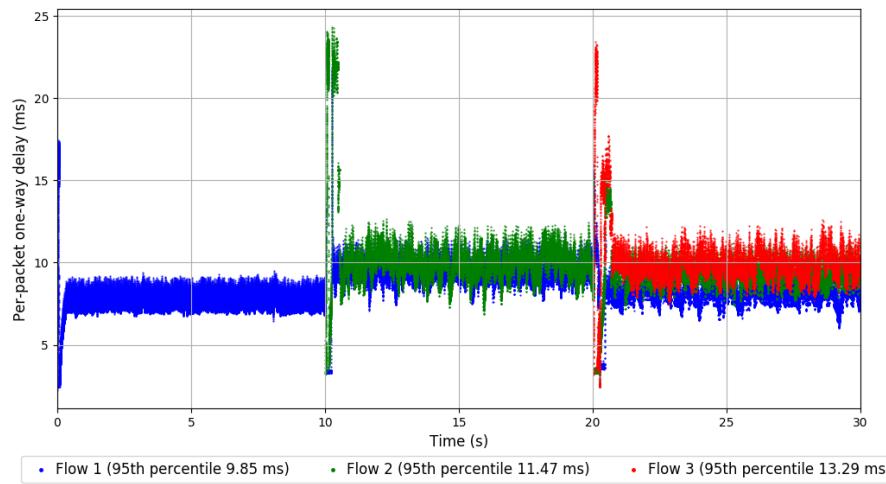
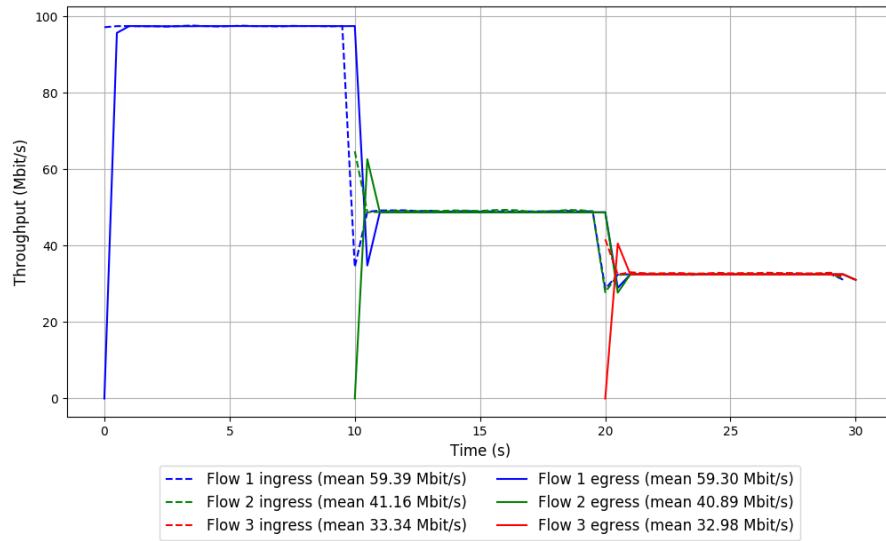


Run 2: Statistics of TCP BBR

```
Start at: 2018-12-20 08:27:34
End at: 2018-12-20 08:28:04
Local clock offset: -6.654 ms
Remote clock offset: -0.6 ms

# Below is generated by plot.py at 2018-12-20 09:44:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.50 Mbit/s
95th percentile per-packet one-way delay: 10.797 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 59.30 Mbit/s
95th percentile per-packet one-way delay: 9.845 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 40.89 Mbit/s
95th percentile per-packet one-way delay: 11.473 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 32.98 Mbit/s
95th percentile per-packet one-way delay: 13.292 ms
Loss rate: 1.12%
```

Run 2: Report of TCP BBR — Data Link

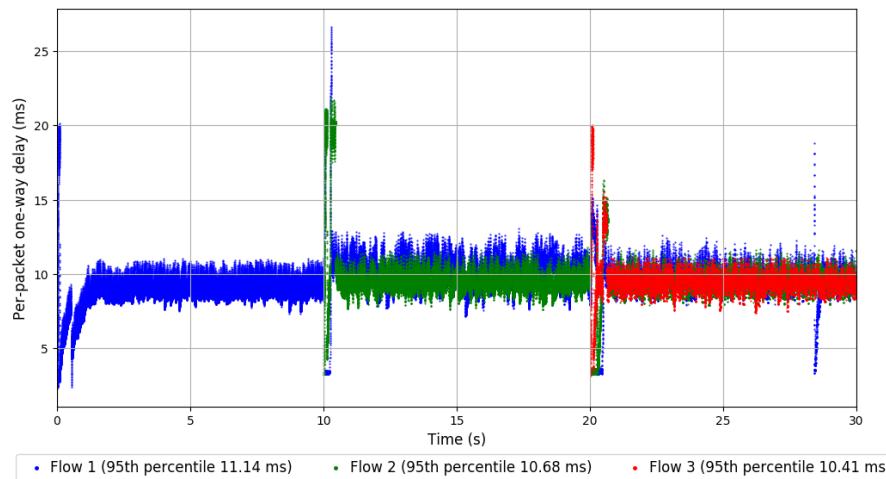
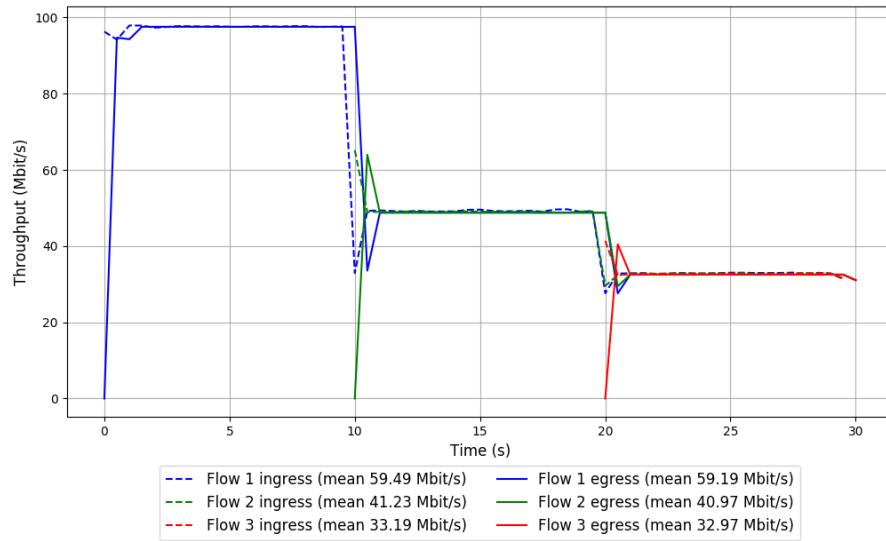


Run 3: Statistics of TCP BBR

```
Start at: 2018-12-20 08:49:31
End at: 2018-12-20 08:50:01
Local clock offset: -6.823 ms
Remote clock offset: -0.516 ms

# Below is generated by plot.py at 2018-12-20 09:44:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.43 Mbit/s
95th percentile per-packet one-way delay: 11.020 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 59.19 Mbit/s
95th percentile per-packet one-way delay: 11.136 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 40.97 Mbit/s
95th percentile per-packet one-way delay: 10.675 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 32.97 Mbit/s
95th percentile per-packet one-way delay: 10.406 ms
Loss rate: 0.70%
```

Run 3: Report of TCP BBR — Data Link

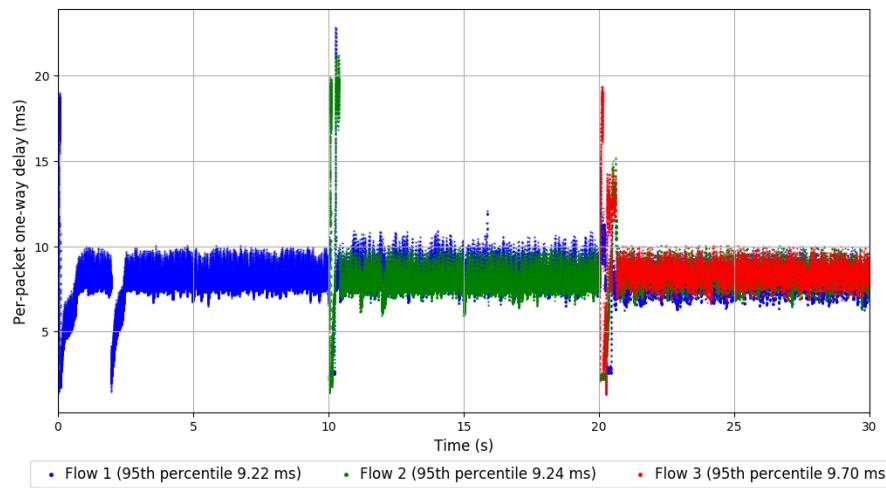
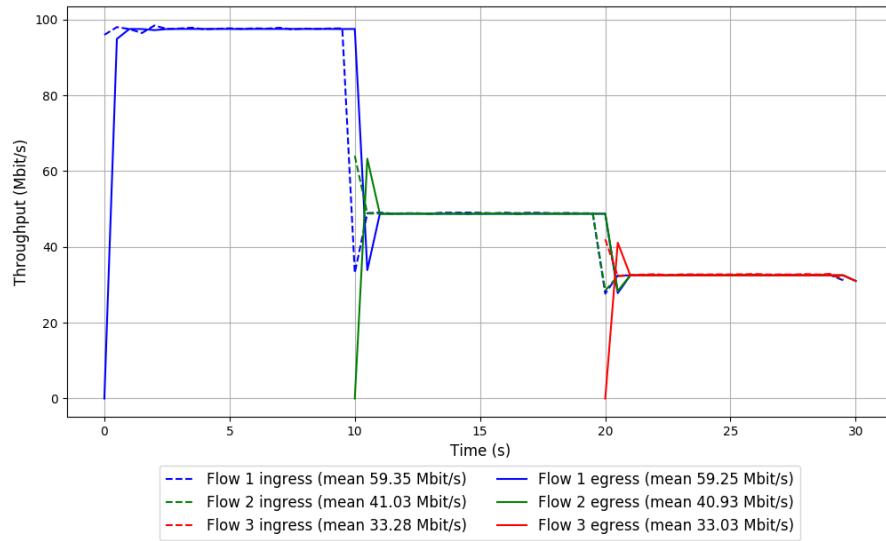


Run 4: Statistics of TCP BBR

```
Start at: 2018-12-20 09:11:28
End at: 2018-12-20 09:11:58
Local clock offset: -4.179 ms
Remote clock offset: -0.293 ms

# Below is generated by plot.py at 2018-12-20 09:44:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 9.257 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 59.25 Mbit/s
95th percentile per-packet one-way delay: 9.216 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 40.93 Mbit/s
95th percentile per-packet one-way delay: 9.236 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 33.03 Mbit/s
95th percentile per-packet one-way delay: 9.695 ms
Loss rate: 0.80%
```

Run 4: Report of TCP BBR — Data Link

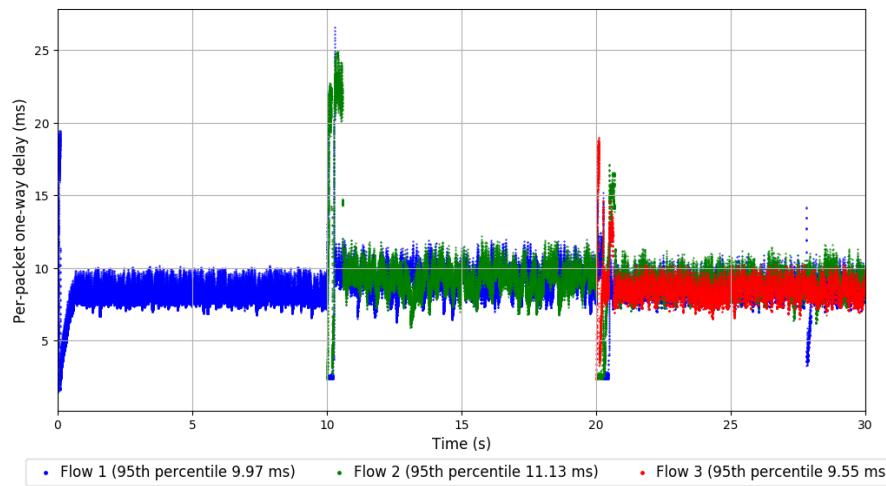
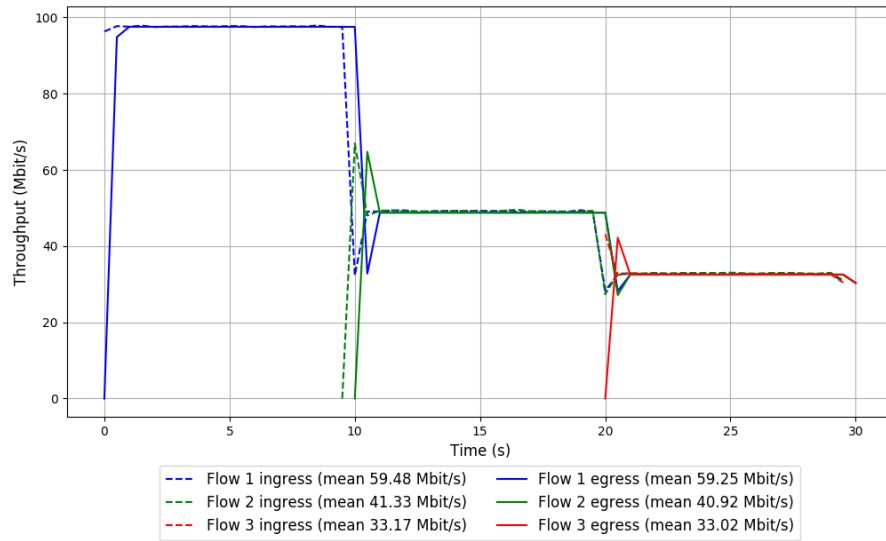


Run 5: Statistics of TCP BBR

```
Start at: 2018-12-20 09:33:26
End at: 2018-12-20 09:33:56
Local clock offset: 0.106 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2018-12-20 09:44:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: 10.284 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 59.25 Mbit/s
95th percentile per-packet one-way delay: 9.966 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 40.92 Mbit/s
95th percentile per-packet one-way delay: 11.128 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 33.02 Mbit/s
95th percentile per-packet one-way delay: 9.554 ms
Loss rate: 0.49%
```

Run 5: Report of TCP BBR — Data Link

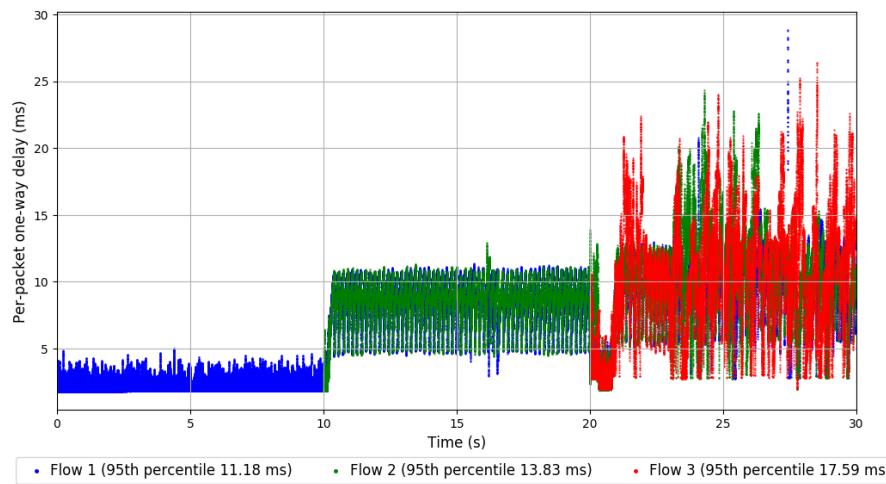
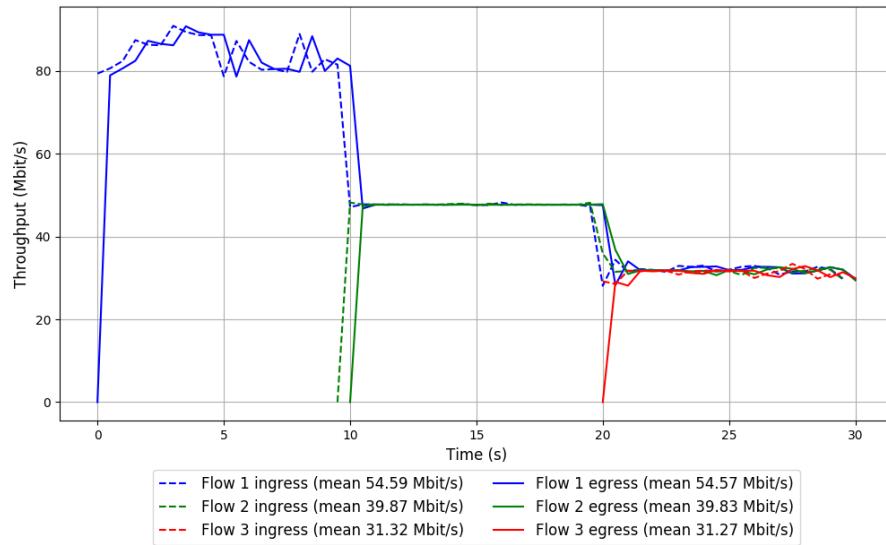


Run 1: Statistics of Copa

```
Start at: 2018-12-20 08:10:12
End at: 2018-12-20 08:10:42
Local clock offset: -3.39 ms
Remote clock offset: -0.696 ms

# Below is generated by plot.py at 2018-12-20 09:44:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.49 Mbit/s
95th percentile per-packet one-way delay: 13.115 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 54.57 Mbit/s
95th percentile per-packet one-way delay: 11.182 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 39.83 Mbit/s
95th percentile per-packet one-way delay: 13.830 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 31.27 Mbit/s
95th percentile per-packet one-way delay: 17.589 ms
Loss rate: 0.20%
```

Run 1: Report of Copa — Data Link

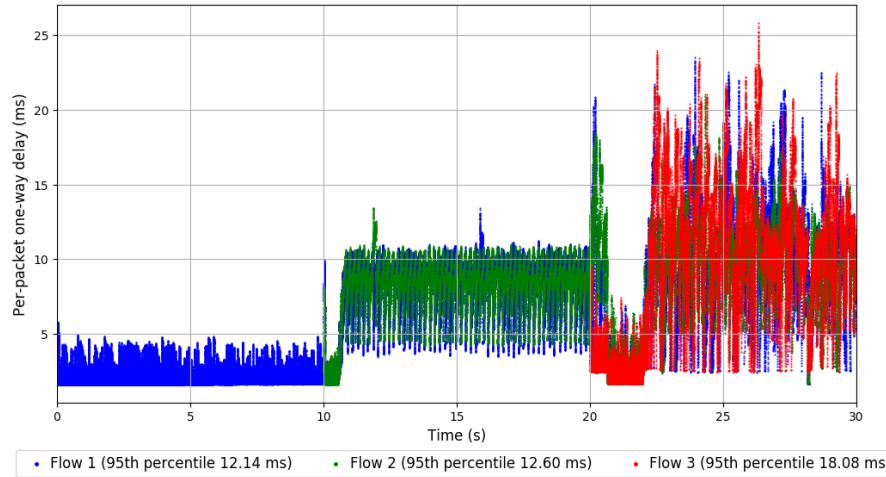
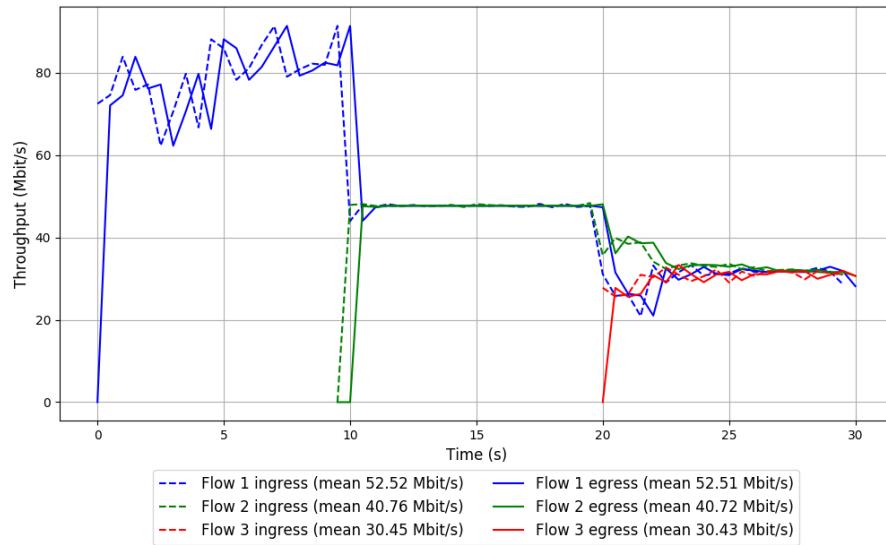


Run 2: Statistics of Copa

```
Start at: 2018-12-20 08:32:09
End at: 2018-12-20 08:32:39
Local clock offset: -7.791 ms
Remote clock offset: -0.541 ms

# Below is generated by plot.py at 2018-12-20 09:44:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.75 Mbit/s
95th percentile per-packet one-way delay: 13.799 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 52.51 Mbit/s
95th percentile per-packet one-way delay: 12.138 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 40.72 Mbit/s
95th percentile per-packet one-way delay: 12.598 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 30.43 Mbit/s
95th percentile per-packet one-way delay: 18.080 ms
Loss rate: 0.17%
```

Run 2: Report of Copa — Data Link

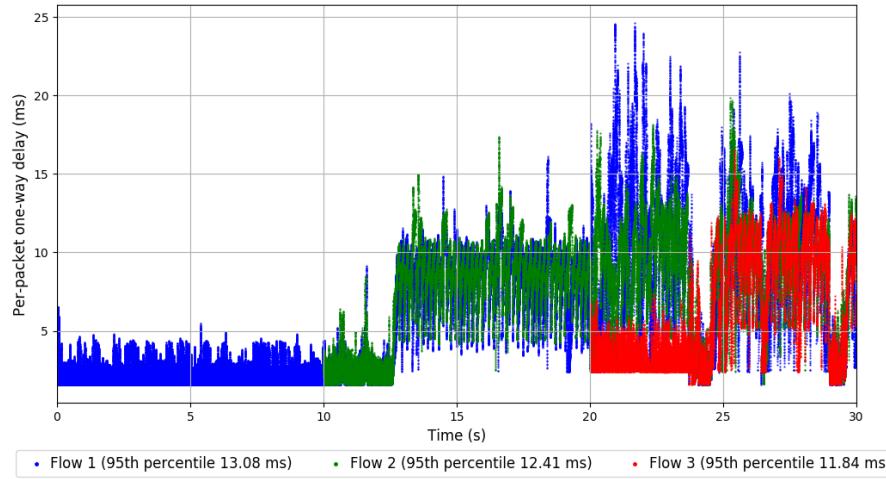
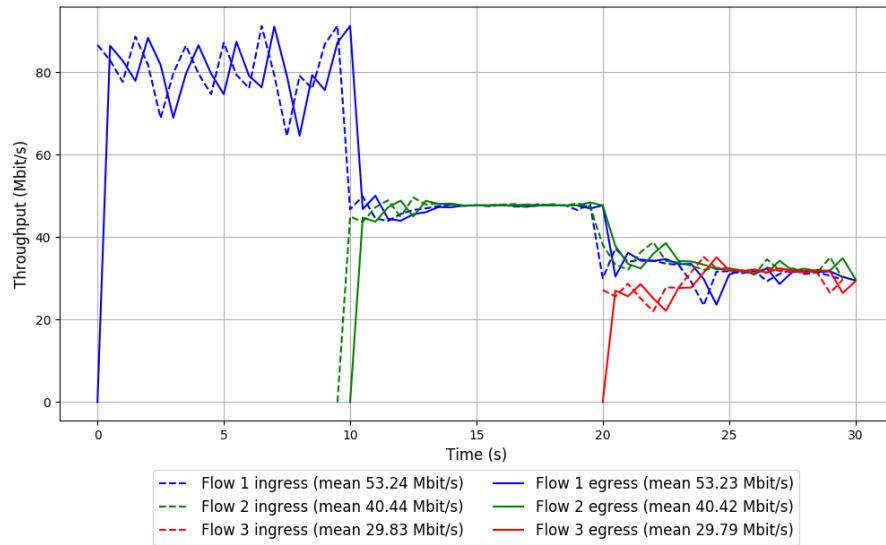


Run 3: Statistics of Copa

```
Start at: 2018-12-20 08:54:06
End at: 2018-12-20 08:54:36
Local clock offset: -7.541 ms
Remote clock offset: -0.329 ms

# Below is generated by plot.py at 2018-12-20 09:44:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.05 Mbit/s
95th percentile per-packet one-way delay: 12.550 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 53.23 Mbit/s
95th percentile per-packet one-way delay: 13.080 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 40.42 Mbit/s
95th percentile per-packet one-way delay: 12.409 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 29.79 Mbit/s
95th percentile per-packet one-way delay: 11.835 ms
Loss rate: 0.15%
```

Run 3: Report of Copa — Data Link

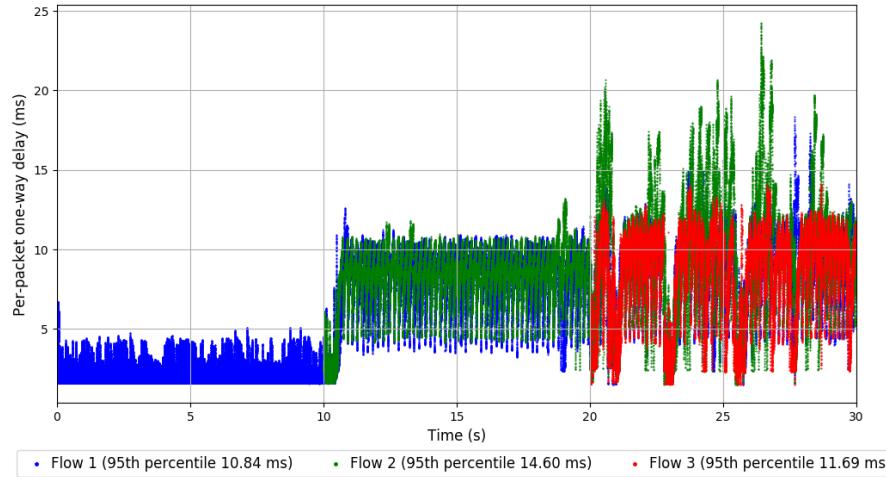
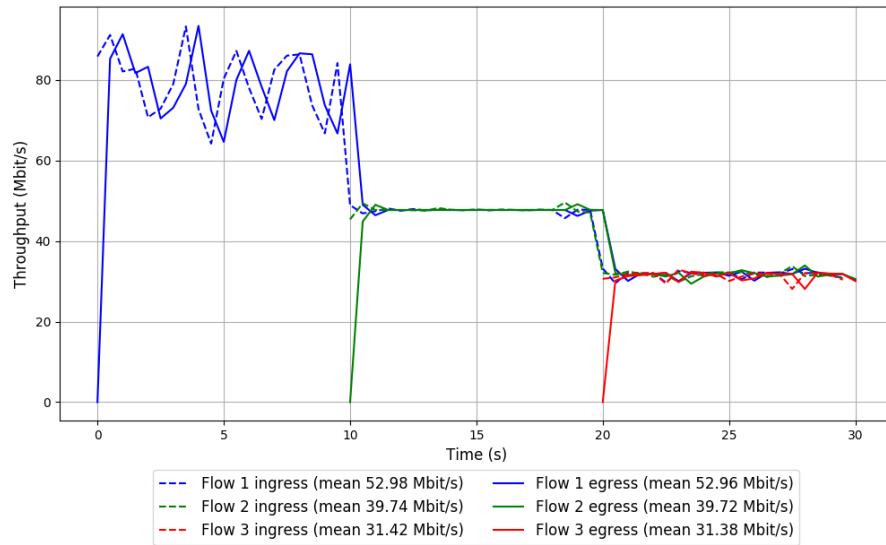


Run 4: Statistics of Copa

```
Start at: 2018-12-20 09:16:02
End at: 2018-12-20 09:16:32
Local clock offset: -2.568 ms
Remote clock offset: -0.3 ms

# Below is generated by plot.py at 2018-12-20 09:45:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.84 Mbit/s
95th percentile per-packet one-way delay: 11.689 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 52.96 Mbit/s
95th percentile per-packet one-way delay: 10.843 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 39.72 Mbit/s
95th percentile per-packet one-way delay: 14.596 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 31.38 Mbit/s
95th percentile per-packet one-way delay: 11.686 ms
Loss rate: 0.18%
```

Run 4: Report of Copa — Data Link

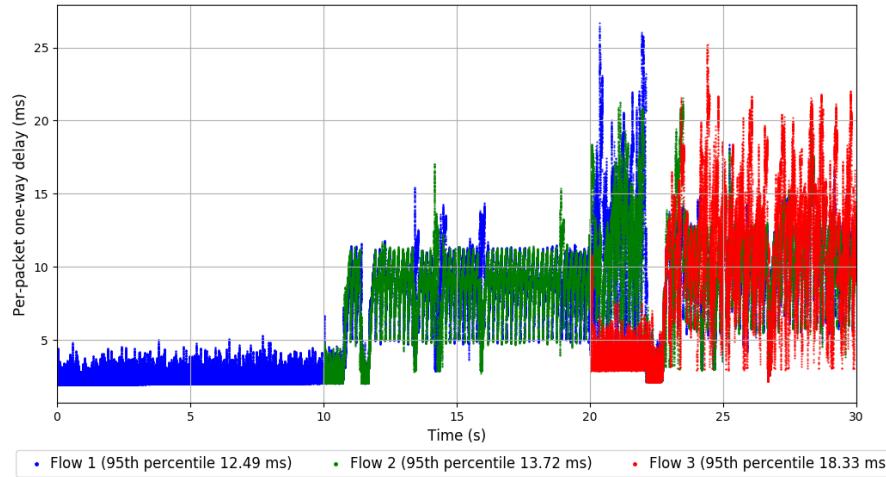
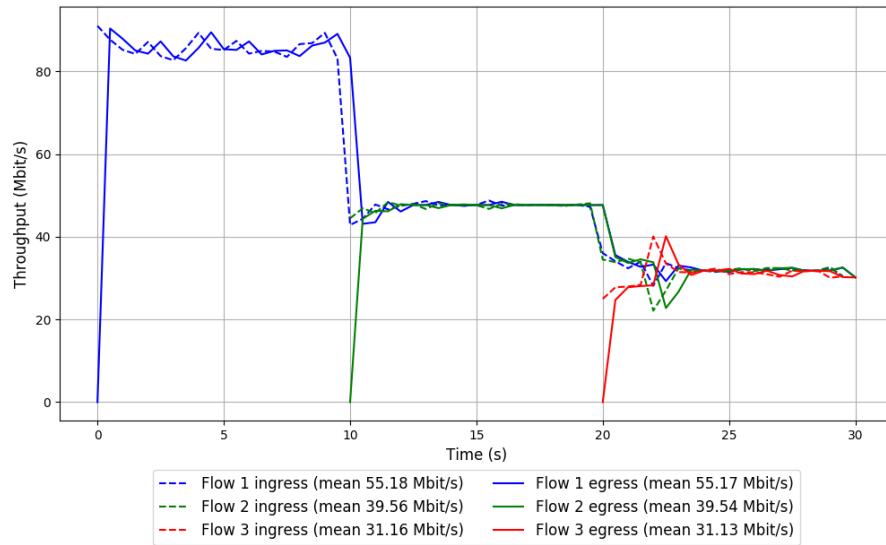


Run 5: Statistics of Copa

```
Start at: 2018-12-20 09:38:00
End at: 2018-12-20 09:38:30
Local clock offset: -1.532 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2018-12-20 09:45:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.84 Mbit/s
95th percentile per-packet one-way delay: 14.080 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 55.17 Mbit/s
95th percentile per-packet one-way delay: 12.493 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 39.54 Mbit/s
95th percentile per-packet one-way delay: 13.722 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 31.13 Mbit/s
95th percentile per-packet one-way delay: 18.326 ms
Loss rate: 0.16%
```

Run 5: Report of Copa — Data Link

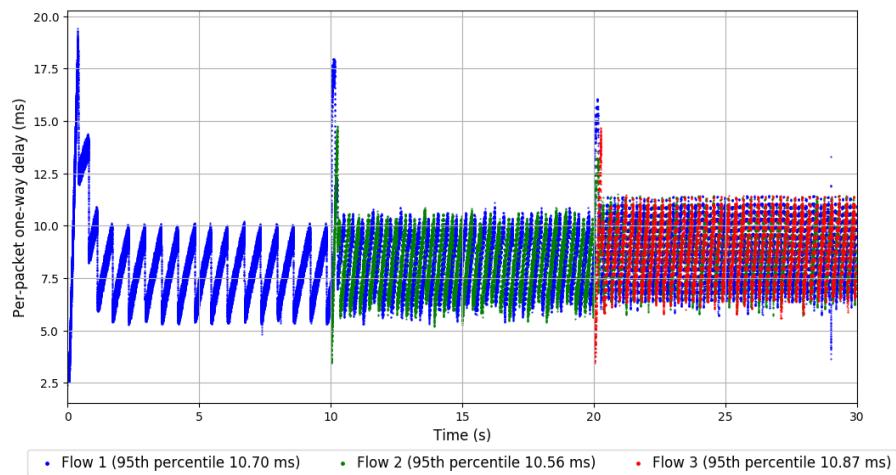
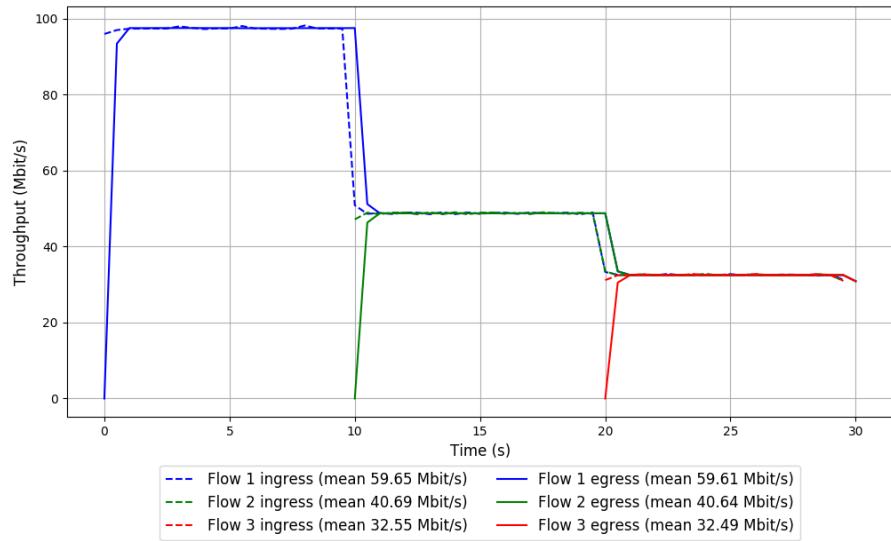


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2018-12-20 08:12:34
End at: 2018-12-20 08:13:04
Local clock offset: -3.658 ms
Remote clock offset: -0.742 ms

# Below is generated by plot.py at 2018-12-20 09:45:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 10.661 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 59.61 Mbit/s
95th percentile per-packet one-way delay: 10.697 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 40.64 Mbit/s
95th percentile per-packet one-way delay: 10.556 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 32.49 Mbit/s
95th percentile per-packet one-way delay: 10.873 ms
Loss rate: 0.24%
```

Run 1: Report of TCP Cubic — Data Link

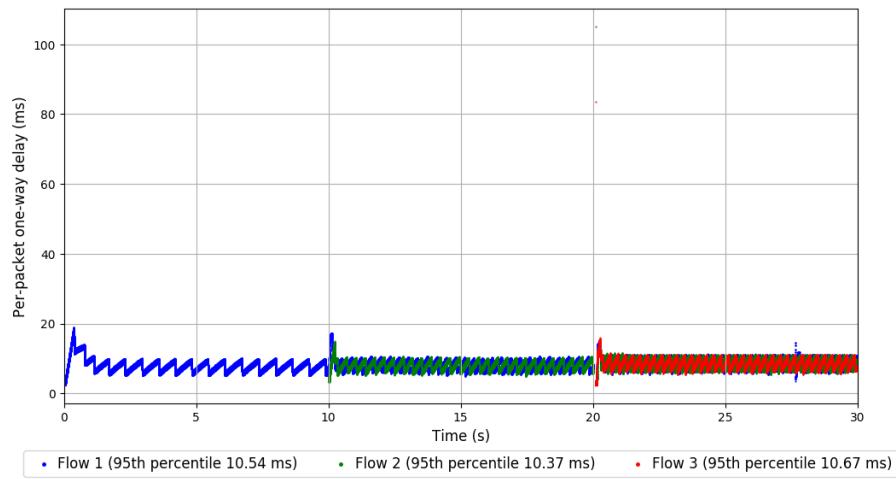
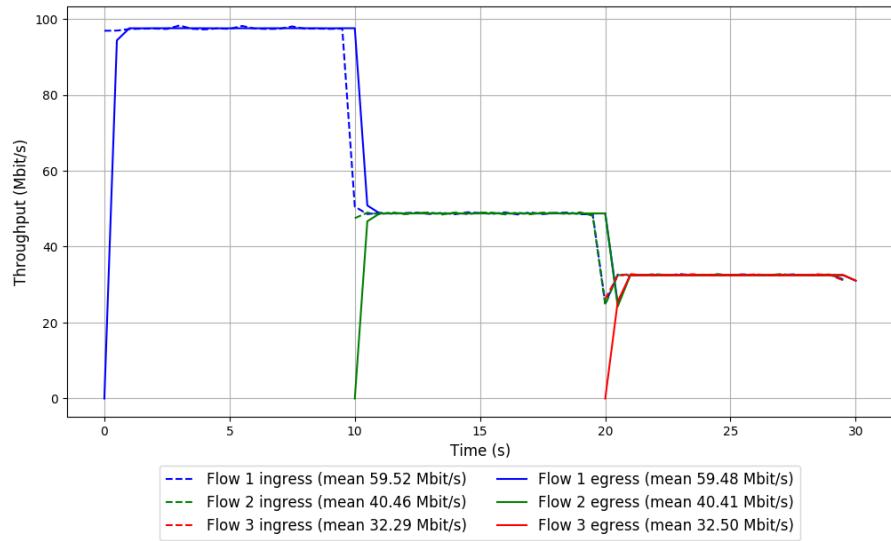


Run 2: Statistics of TCP Cubic

```
Start at: 2018-12-20 08:34:31
End at: 2018-12-20 08:35:01
Local clock offset: -7.176 ms
Remote clock offset: -0.566 ms

# Below is generated by plot.py at 2018-12-20 09:45:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 10.442 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 59.48 Mbit/s
95th percentile per-packet one-way delay: 10.537 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 40.41 Mbit/s
95th percentile per-packet one-way delay: 10.370 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 32.50 Mbit/s
95th percentile per-packet one-way delay: 10.669 ms
Loss rate: 0.23%
```

Run 2: Report of TCP Cubic — Data Link

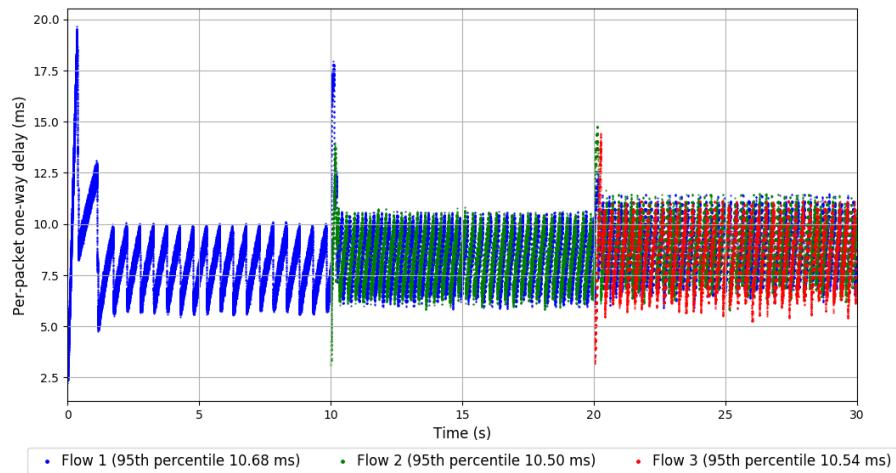
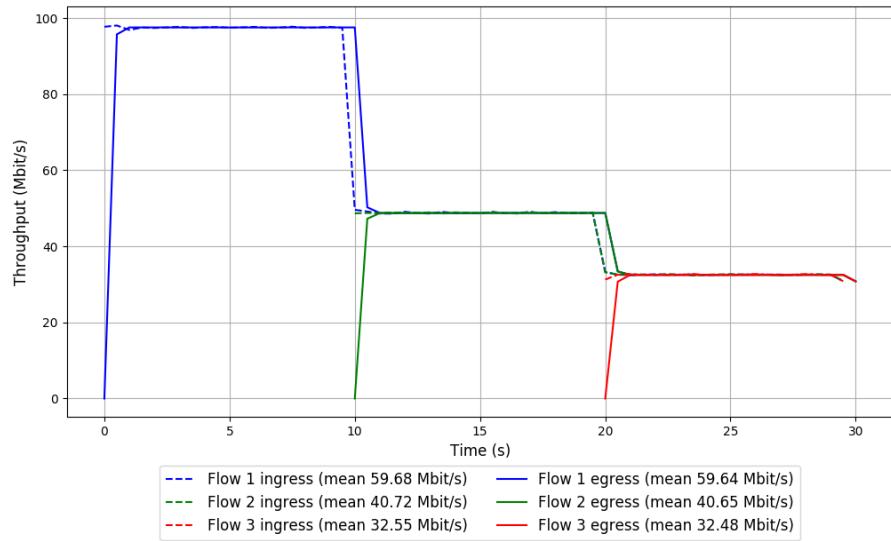


Run 3: Statistics of TCP Cubic

```
Start at: 2018-12-20 08:56:28
End at: 2018-12-20 08:56:58
Local clock offset: -6.802 ms
Remote clock offset: -0.315 ms

# Below is generated by plot.py at 2018-12-20 09:45:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.50 Mbit/s
95th percentile per-packet one-way delay: 10.590 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 59.64 Mbit/s
95th percentile per-packet one-way delay: 10.680 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 40.65 Mbit/s
95th percentile per-packet one-way delay: 10.496 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 32.48 Mbit/s
95th percentile per-packet one-way delay: 10.543 ms
Loss rate: 0.22%
```

Run 3: Report of TCP Cubic — Data Link

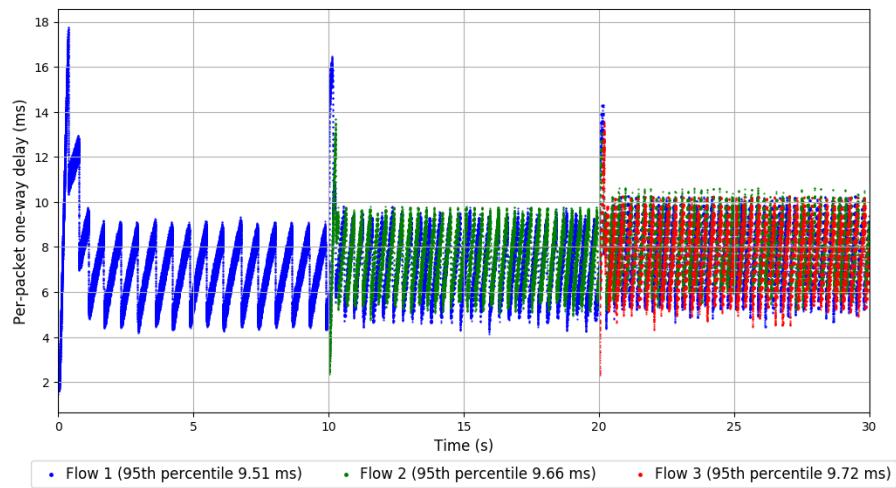
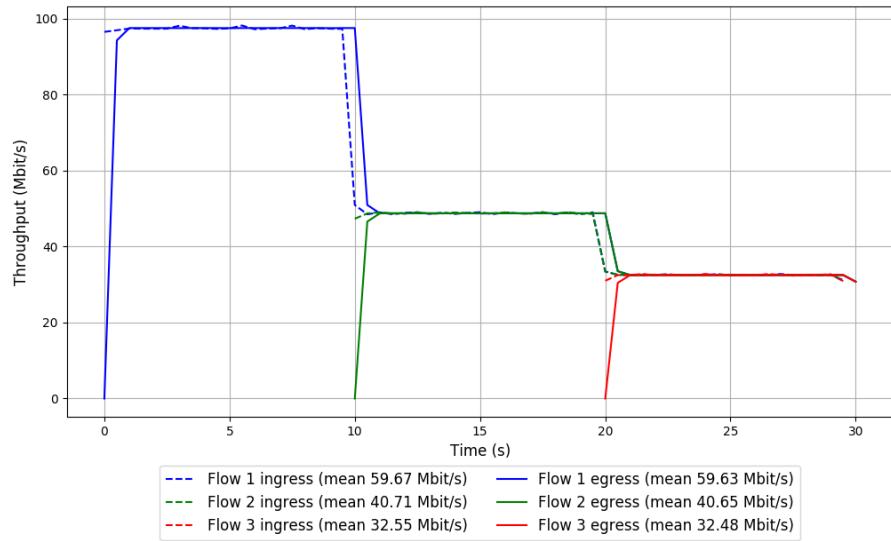


Run 4: Statistics of TCP Cubic

```
Start at: 2018-12-20 09:18:24
End at: 2018-12-20 09:18:54
Local clock offset: -2.008 ms
Remote clock offset: -0.252 ms

# Below is generated by plot.py at 2018-12-20 09:45:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 9.632 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 59.63 Mbit/s
95th percentile per-packet one-way delay: 9.509 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 40.65 Mbit/s
95th percentile per-packet one-way delay: 9.658 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 32.48 Mbit/s
95th percentile per-packet one-way delay: 9.722 ms
Loss rate: 0.24%
```

Run 4: Report of TCP Cubic — Data Link

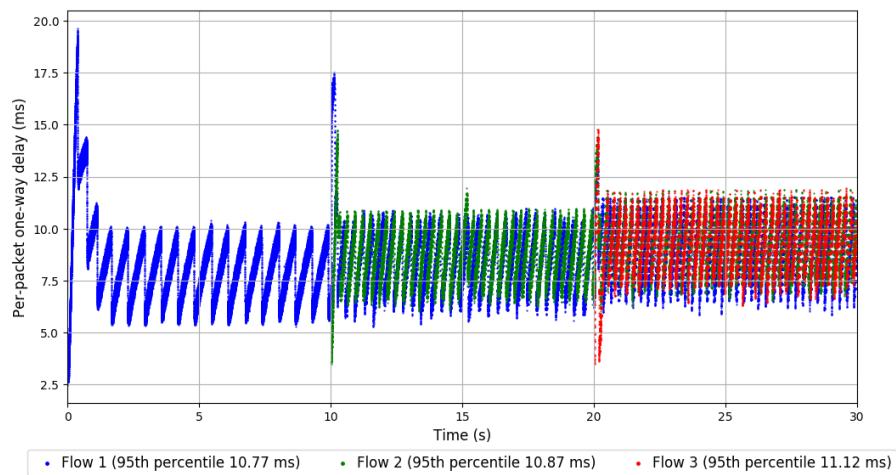
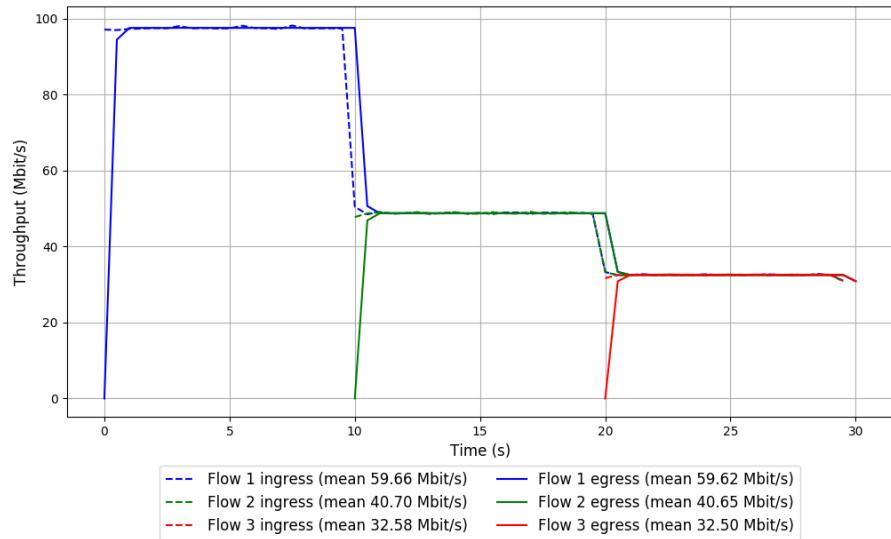


Run 5: Statistics of TCP Cubic

```
Start at: 2018-12-20 09:40:22
End at: 2018-12-20 09:40:52
Local clock offset: -2.072 ms
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2018-12-20 09:45:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 10.947 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 59.62 Mbit/s
95th percentile per-packet one-way delay: 10.768 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 40.65 Mbit/s
95th percentile per-packet one-way delay: 10.871 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 32.50 Mbit/s
95th percentile per-packet one-way delay: 11.125 ms
Loss rate: 0.28%
```

Run 5: Report of TCP Cubic — Data Link

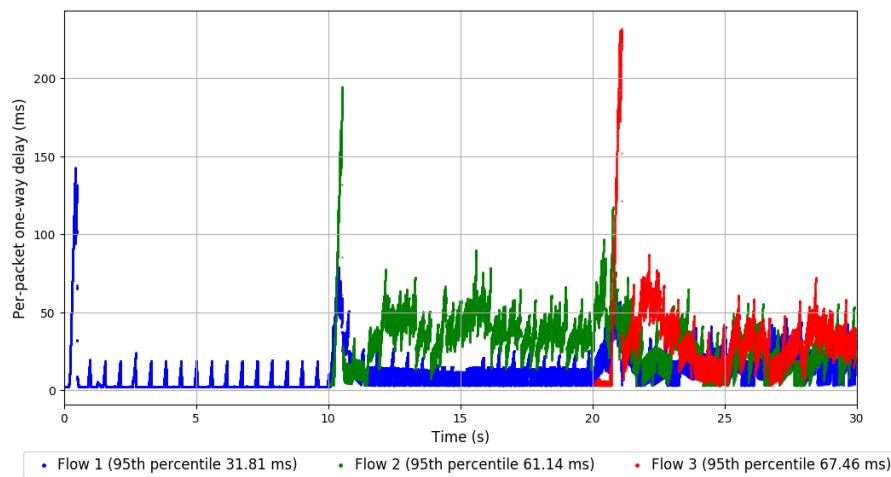
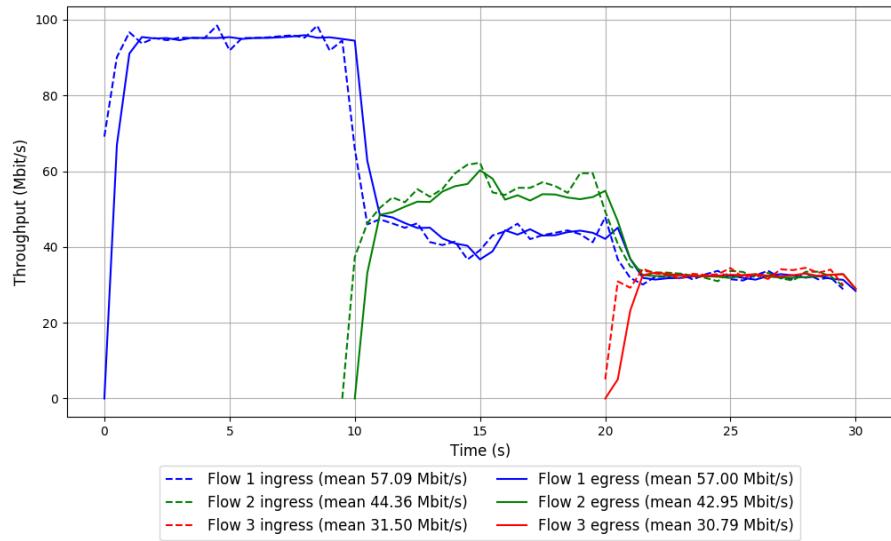


```
Run 1: Statistics of FillP

Start at: 2018-12-20 08:02:14
End at: 2018-12-20 08:02:44
Local clock offset: 0.311 ms
Remote clock offset: -0.867 ms

# Below is generated by plot.py at 2018-12-20 09:46:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.82 Mbit/s
95th percentile per-packet one-way delay: 55.000 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 57.00 Mbit/s
95th percentile per-packet one-way delay: 31.813 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 42.95 Mbit/s
95th percentile per-packet one-way delay: 61.140 ms
Loss rate: 3.19%
-- Flow 3:
Average throughput: 30.79 Mbit/s
95th percentile per-packet one-way delay: 67.463 ms
Loss rate: 2.20%
```

Run 1: Report of FillP — Data Link

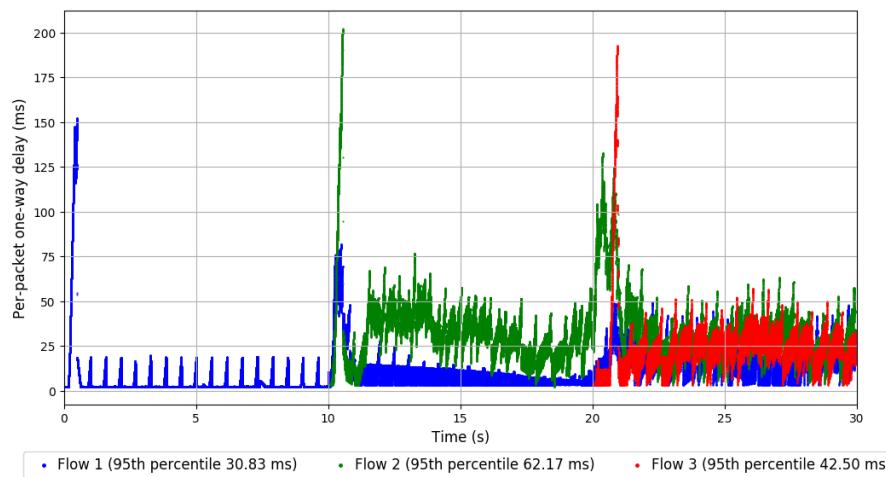
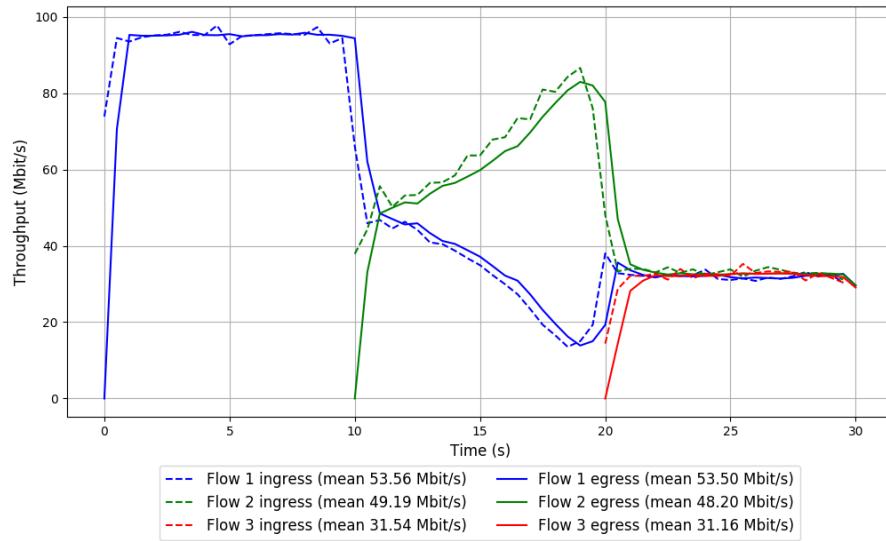


Run 2: Statistics of FillP

```
Start at: 2018-12-20 08:24:09
End at: 2018-12-20 08:24:39
Local clock offset: -6.334 ms
Remote clock offset: -0.651 ms

# Below is generated by plot.py at 2018-12-20 09:46:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.95 Mbit/s
95th percentile per-packet one-way delay: 50.104 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 53.50 Mbit/s
95th percentile per-packet one-way delay: 30.830 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 48.20 Mbit/s
95th percentile per-packet one-way delay: 62.174 ms
Loss rate: 2.03%
-- Flow 3:
Average throughput: 31.16 Mbit/s
95th percentile per-packet one-way delay: 42.503 ms
Loss rate: 1.20%
```

Run 2: Report of FillP — Data Link

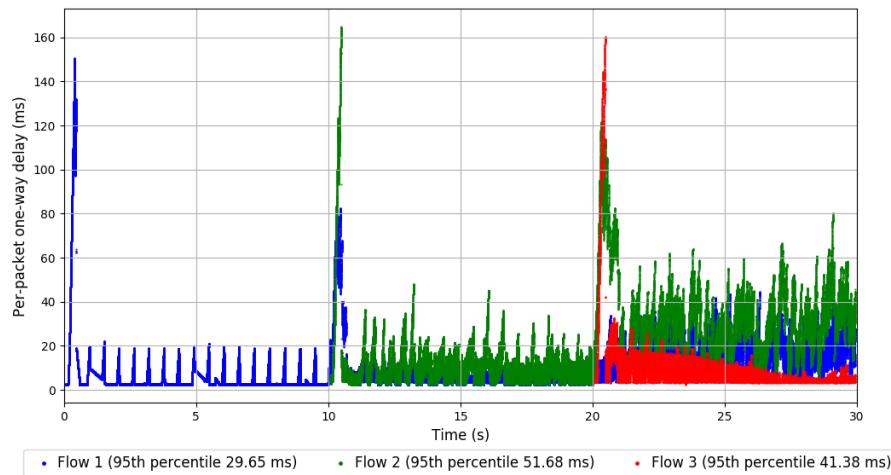
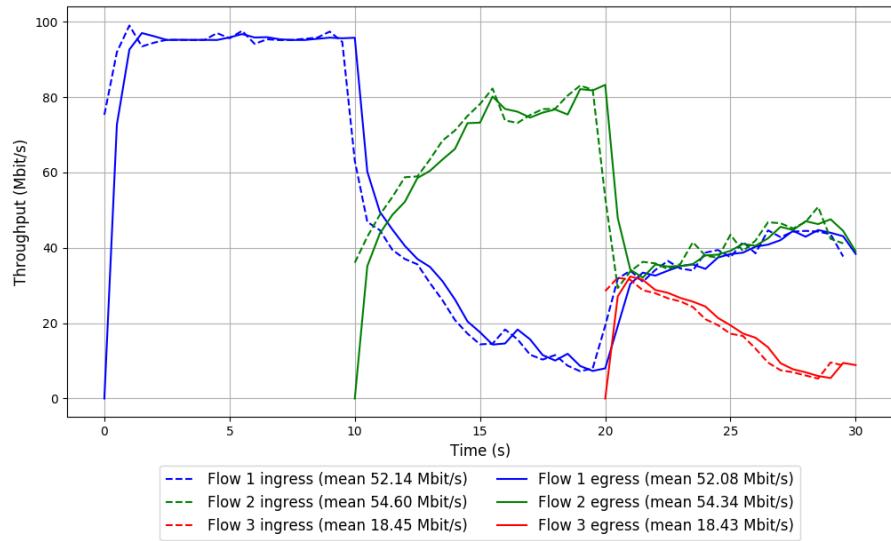


Run 3: Statistics of FillP

```
Start at: 2018-12-20 08:46:07
End at: 2018-12-20 08:46:37
Local clock offset: -6.754 ms
Remote clock offset: -0.492 ms

# Below is generated by plot.py at 2018-12-20 09:46:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.37 Mbit/s
95th percentile per-packet one-way delay: 43.472 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 52.08 Mbit/s
95th percentile per-packet one-way delay: 29.647 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 54.34 Mbit/s
95th percentile per-packet one-way delay: 51.683 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 18.43 Mbit/s
95th percentile per-packet one-way delay: 41.385 ms
Loss rate: 0.12%
```

Run 3: Report of FillP — Data Link

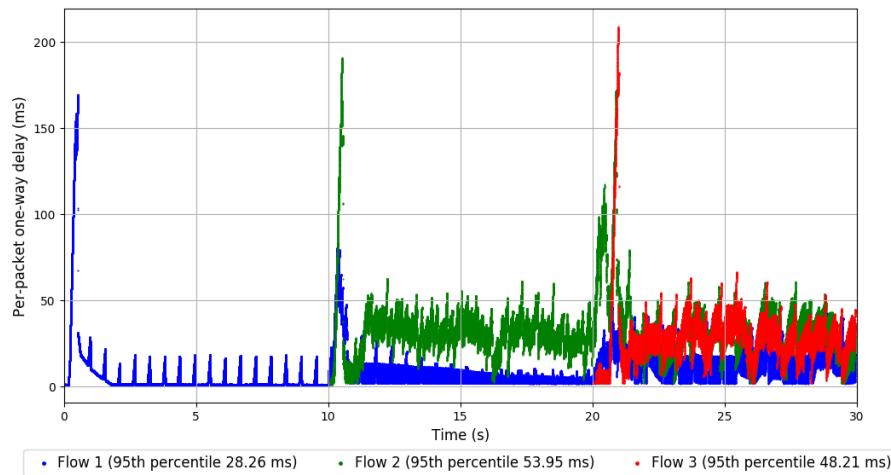
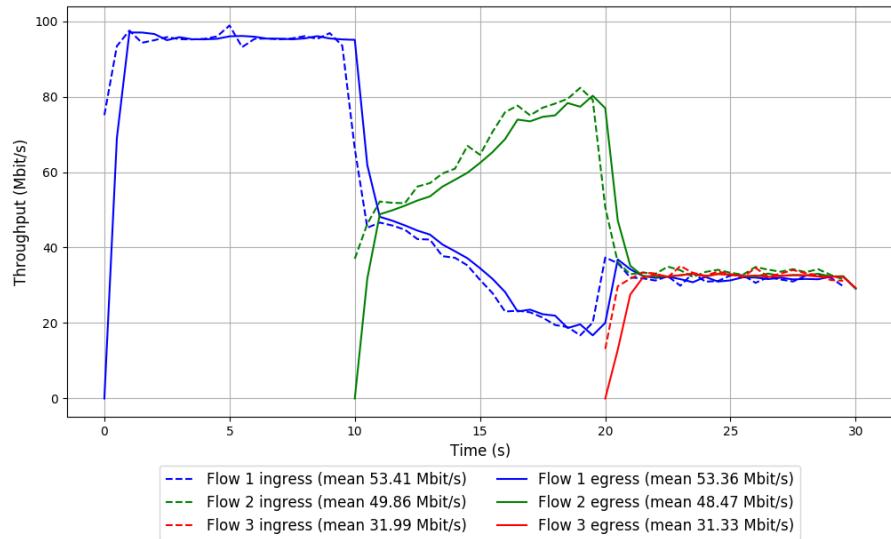


```
Run 4: Statistics of FillP
```

```
Start at: 2018-12-20 09:08:04
End at: 2018-12-20 09:08:34
Local clock offset: -5.972 ms
Remote clock offset: -0.288 ms

# Below is generated by plot.py at 2018-12-20 09:46:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.04 Mbit/s
95th percentile per-packet one-way delay: 46.792 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 53.36 Mbit/s
95th percentile per-packet one-way delay: 28.264 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 48.47 Mbit/s
95th percentile per-packet one-way delay: 53.950 ms
Loss rate: 2.81%
-- Flow 3:
Average throughput: 31.33 Mbit/s
95th percentile per-packet one-way delay: 48.212 ms
Loss rate: 1.98%
```

Run 4: Report of FillP — Data Link

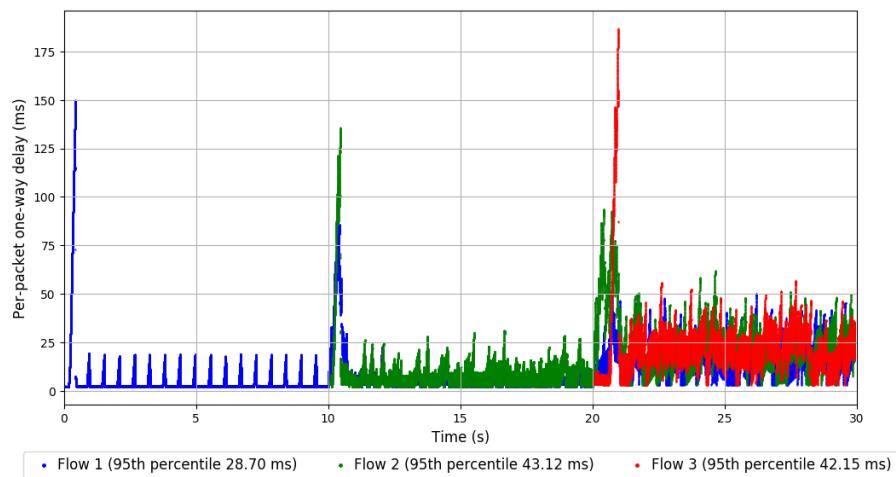
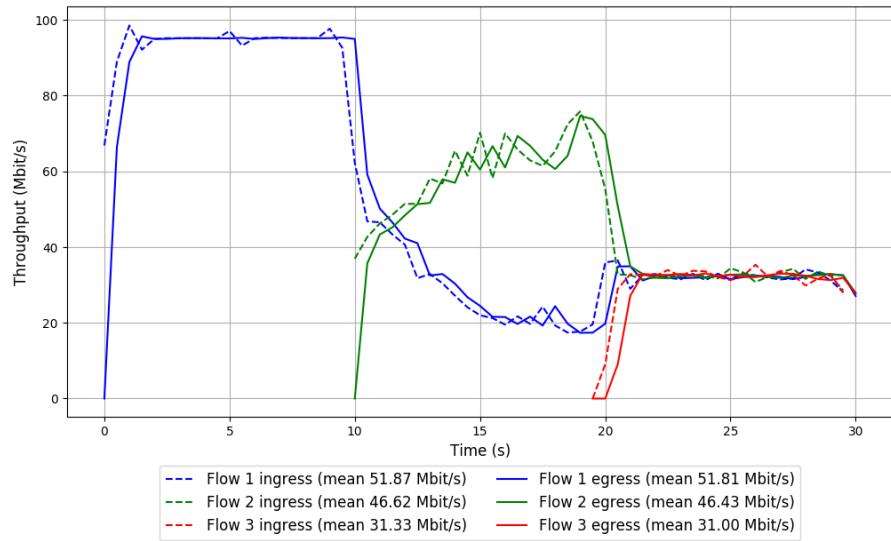


Run 5: Statistics of FillP

```
Start at: 2018-12-20 09:30:02
End at: 2018-12-20 09:30:32
Local clock offset: 0.524 ms
Remote clock offset: -0.137 ms

# Below is generated by plot.py at 2018-12-20 09:47:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.99 Mbit/s
95th percentile per-packet one-way delay: 36.571 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 51.81 Mbit/s
95th percentile per-packet one-way delay: 28.699 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 46.43 Mbit/s
95th percentile per-packet one-way delay: 43.119 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 31.00 Mbit/s
95th percentile per-packet one-way delay: 42.149 ms
Loss rate: 0.97%
```

Run 5: Report of FillP — Data Link

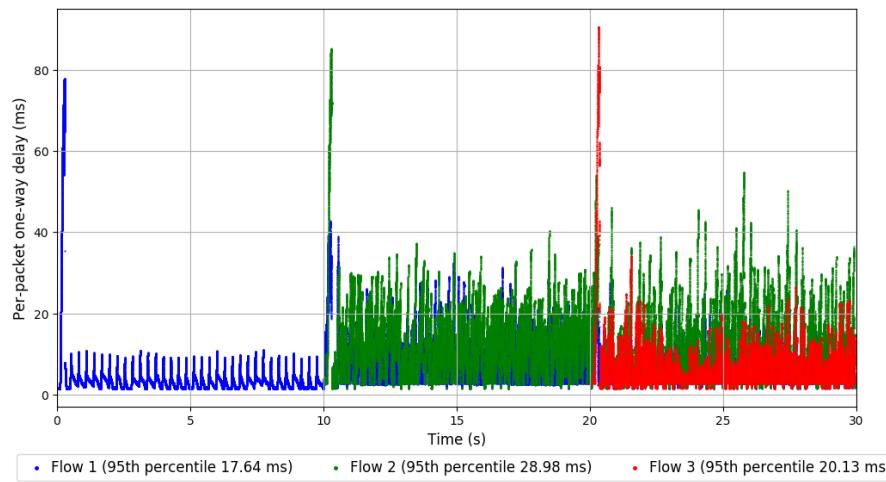
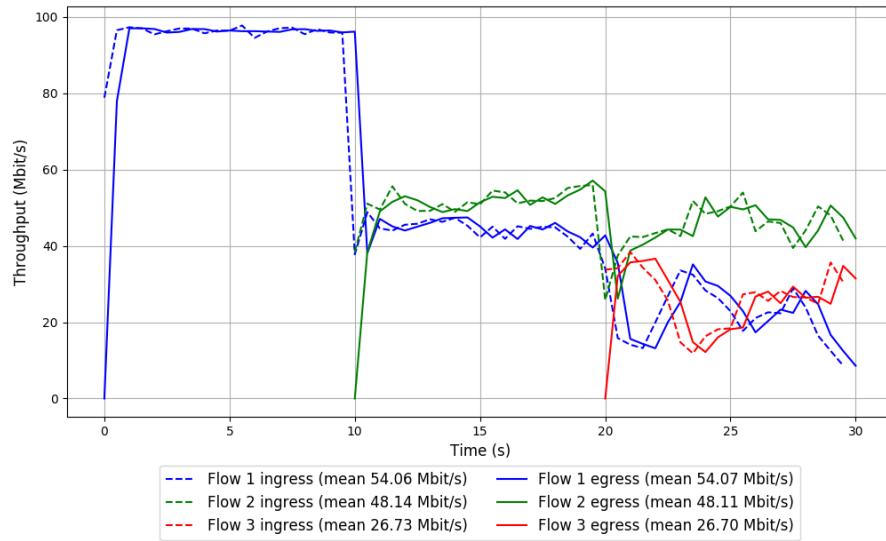


Run 1: Statistics of FillP-Sheep

```
Start at: 2018-12-20 08:04:30
End at: 2018-12-20 08:05:00
Local clock offset: -0.336 ms
Remote clock offset: -0.865 ms

# Below is generated by plot.py at 2018-12-20 09:47:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.94 Mbit/s
95th percentile per-packet one-way delay: 24.610 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 54.07 Mbit/s
95th percentile per-packet one-way delay: 17.642 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 48.11 Mbit/s
95th percentile per-packet one-way delay: 28.975 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 26.70 Mbit/s
95th percentile per-packet one-way delay: 20.129 ms
Loss rate: 0.01%
```

Run 1: Report of FillP-Sheep — Data Link

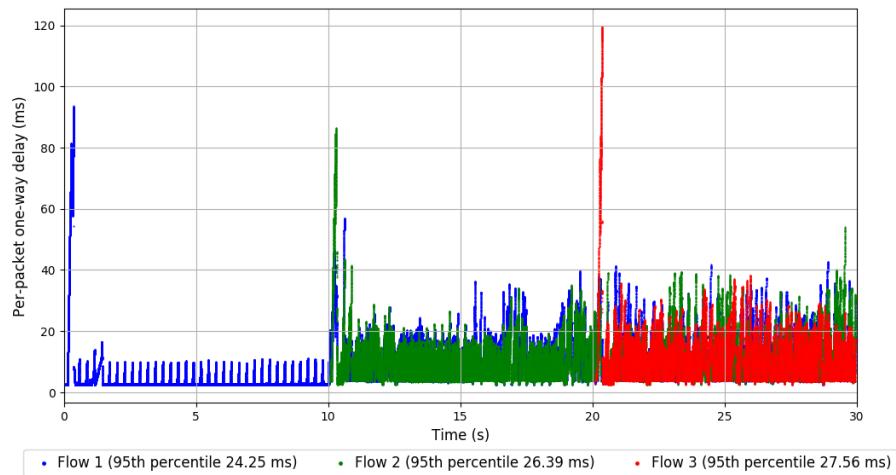
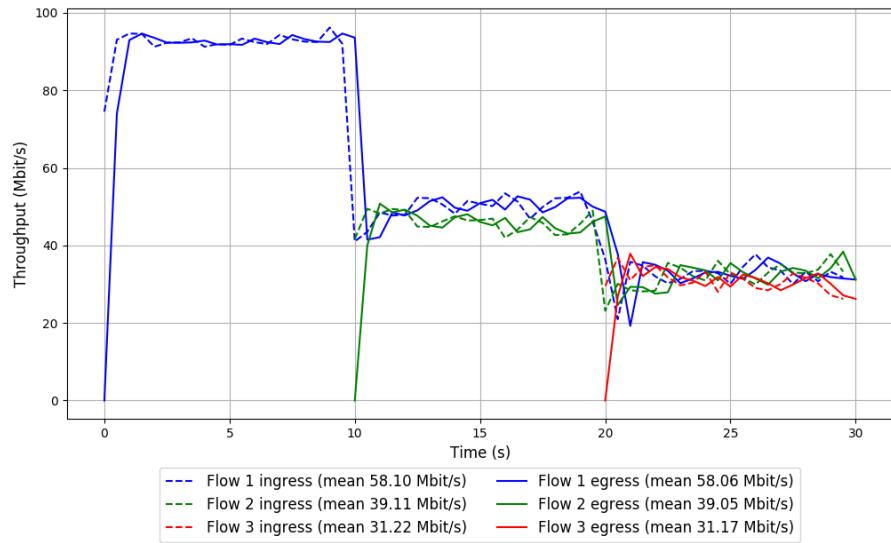


Run 2: Statistics of FillP-Sheep

```
Start at: 2018-12-20 08:26:25
End at: 2018-12-20 08:26:55
Local clock offset: -6.537 ms
Remote clock offset: -0.791 ms

# Below is generated by plot.py at 2018-12-20 09:47:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.39 Mbit/s
95th percentile per-packet one-way delay: 25.485 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 58.06 Mbit/s
95th percentile per-packet one-way delay: 24.245 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 39.05 Mbit/s
95th percentile per-packet one-way delay: 26.389 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 31.17 Mbit/s
95th percentile per-packet one-way delay: 27.563 ms
Loss rate: 0.12%
```

Run 2: Report of FillP-Sheep — Data Link

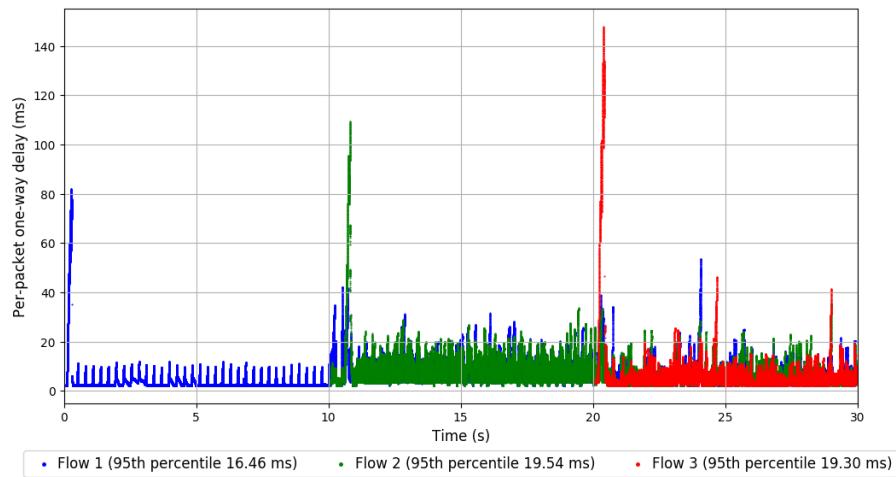
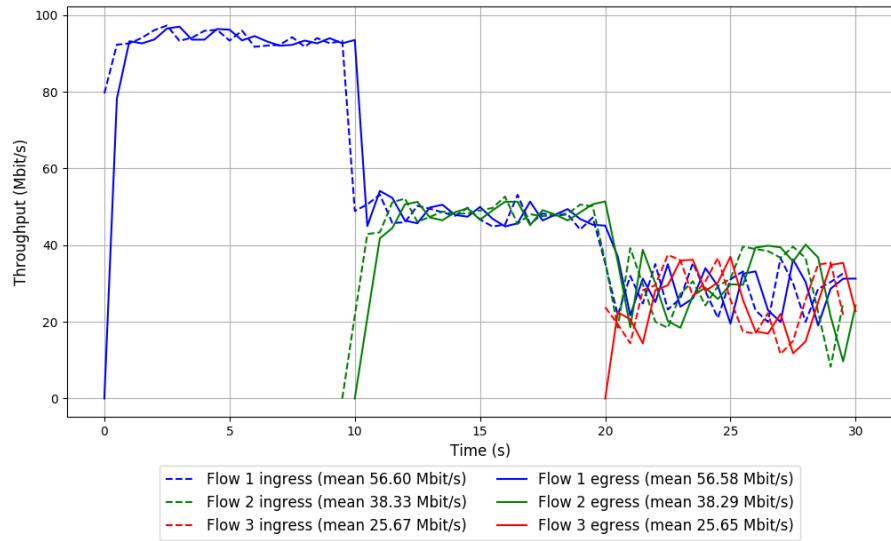


Run 3: Statistics of FillP-Sheep

```
Start at: 2018-12-20 08:48:23
End at: 2018-12-20 08:48:53
Local clock offset: -6.742 ms
Remote clock offset: -0.374 ms

# Below is generated by plot.py at 2018-12-20 09:47:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.60 Mbit/s
95th percentile per-packet one-way delay: 18.113 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 56.58 Mbit/s
95th percentile per-packet one-way delay: 16.461 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 38.29 Mbit/s
95th percentile per-packet one-way delay: 19.540 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 25.65 Mbit/s
95th percentile per-packet one-way delay: 19.299 ms
Loss rate: 0.01%
```

Run 3: Report of FillP-Sheep — Data Link

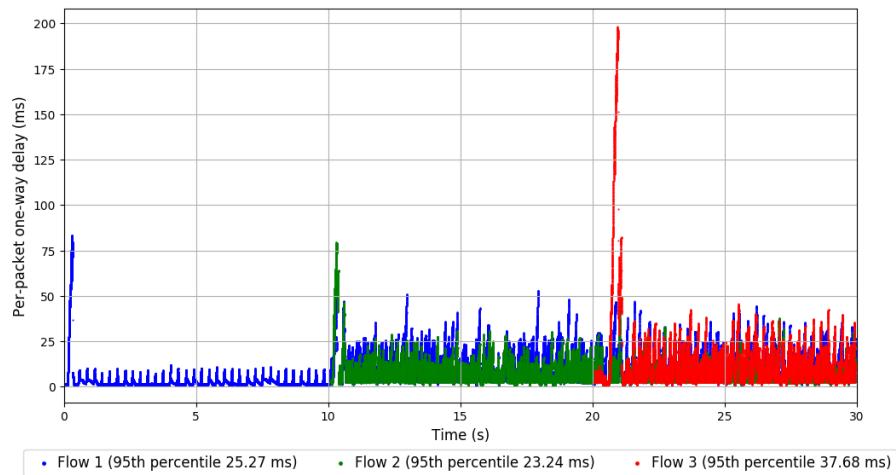
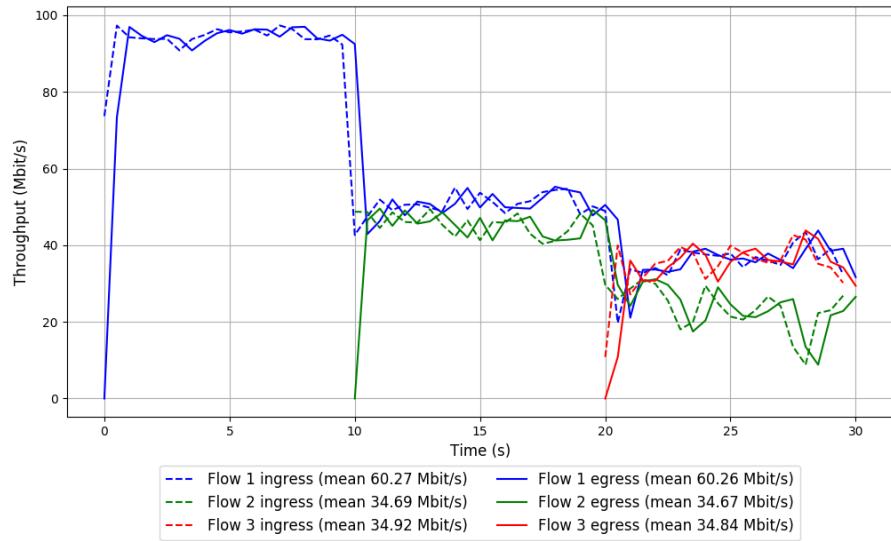


Run 4: Statistics of FillP-Sheep

```
Start at: 2018-12-20 09:10:20
End at: 2018-12-20 09:10:50
Local clock offset: -4.593 ms
Remote clock offset: -0.253 ms

# Below is generated by plot.py at 2018-12-20 09:47:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.89 Mbit/s
95th percentile per-packet one-way delay: 26.704 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 60.26 Mbit/s
95th percentile per-packet one-way delay: 25.269 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 34.67 Mbit/s
95th percentile per-packet one-way delay: 23.243 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 34.84 Mbit/s
95th percentile per-packet one-way delay: 37.677 ms
Loss rate: 0.14%
```

Run 4: Report of FillP-Sheep — Data Link

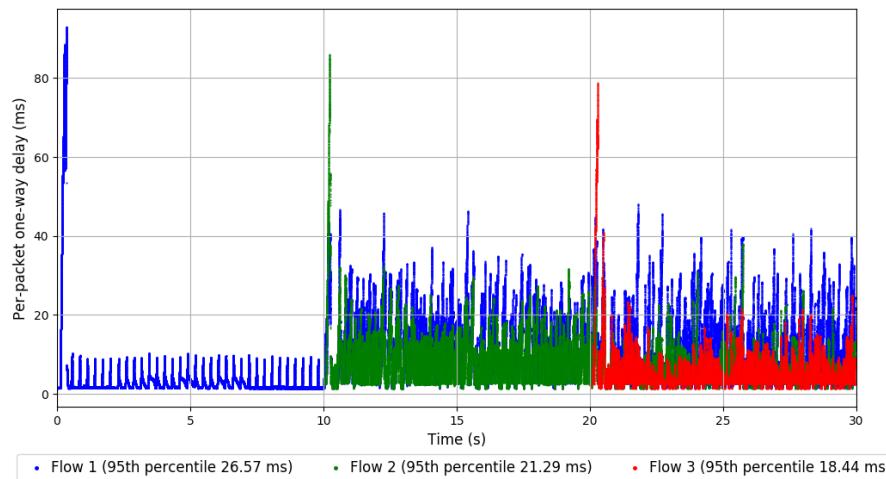
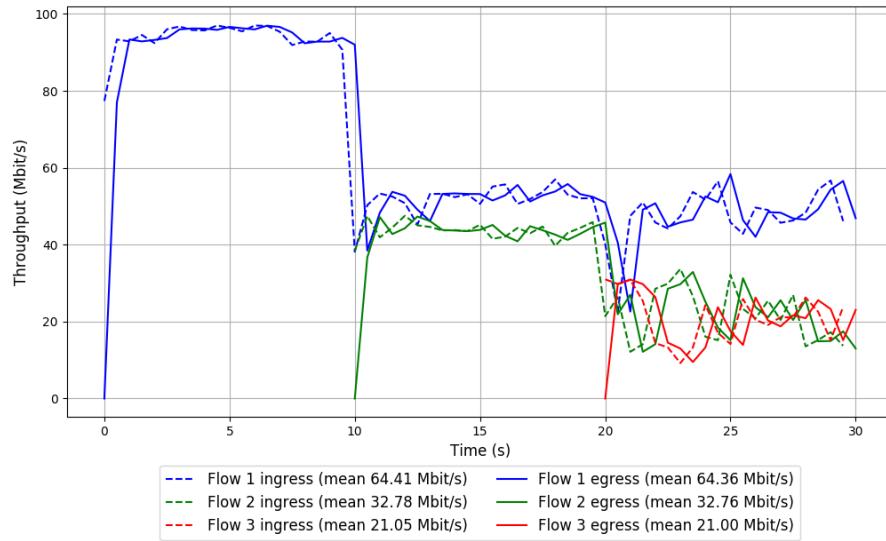


Run 5: Statistics of FillP-Sheep

```
Start at: 2018-12-20 09:32:18
End at: 2018-12-20 09:32:48
Local clock offset: -0.005 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2018-12-20 09:47:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.14 Mbit/s
95th percentile per-packet one-way delay: 25.105 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 64.36 Mbit/s
95th percentile per-packet one-way delay: 26.570 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 32.76 Mbit/s
95th percentile per-packet one-way delay: 21.290 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 21.00 Mbit/s
95th percentile per-packet one-way delay: 18.439 ms
Loss rate: 0.27%
```

Run 5: Report of FillP-Sheep — Data Link

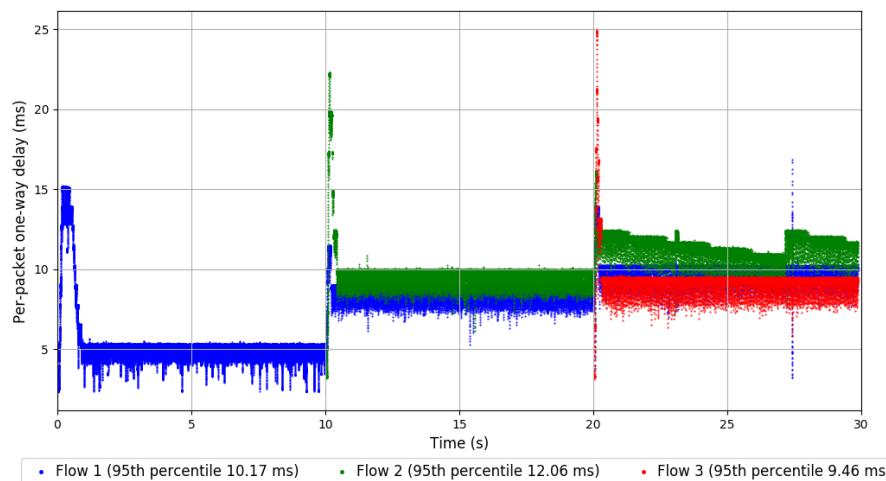
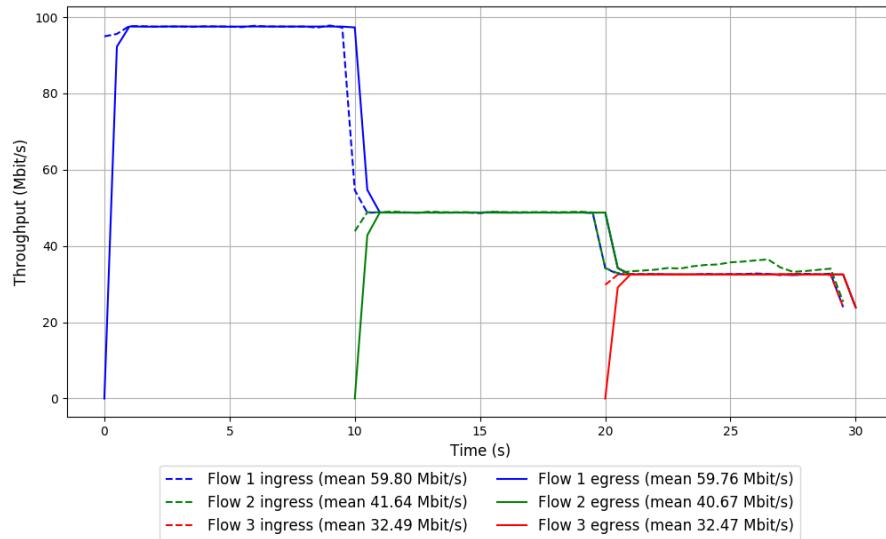


Run 1: Statistics of Indigo

```
Start at: 2018-12-20 08:01:04
End at: 2018-12-20 08:01:34
Local clock offset: 0.222 ms
Remote clock offset: -0.752 ms

# Below is generated by plot.py at 2018-12-20 09:47:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.44 Mbit/s
95th percentile per-packet one-way delay: 11.852 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 59.76 Mbit/s
95th percentile per-packet one-way delay: 10.166 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 40.67 Mbit/s
95th percentile per-packet one-way delay: 12.056 ms
Loss rate: 2.36%
-- Flow 3:
Average throughput: 32.47 Mbit/s
95th percentile per-packet one-way delay: 9.459 ms
Loss rate: 0.11%
```

Run 1: Report of Indigo — Data Link

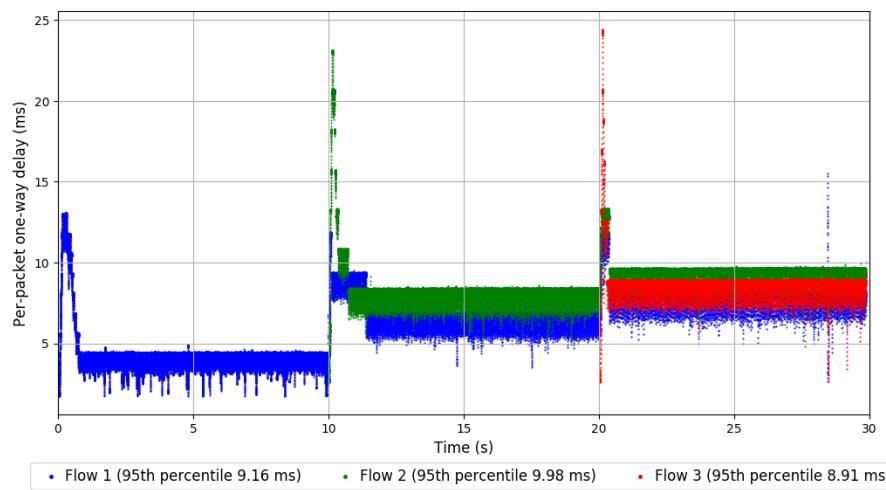
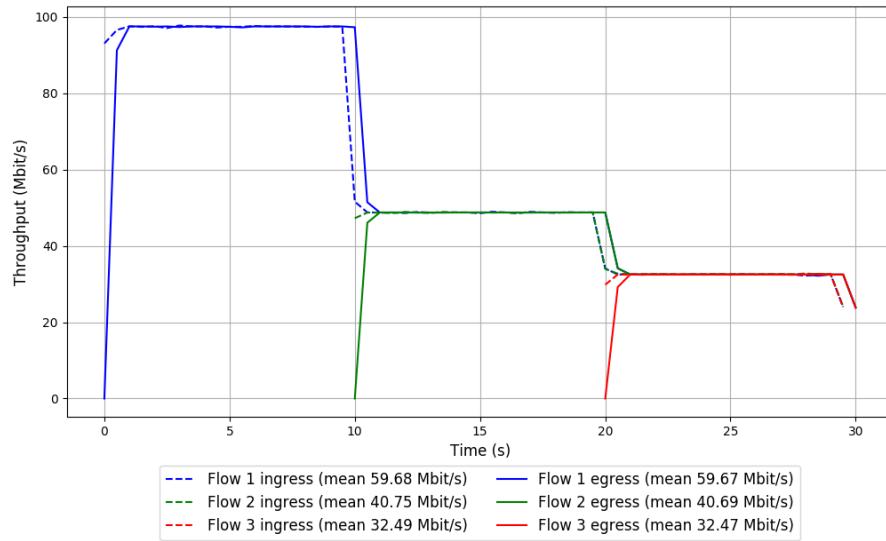


Run 2: Statistics of Indigo

```
Start at: 2018-12-20 08:22:59
End at: 2018-12-20 08:23:29
Local clock offset: -6.868 ms
Remote clock offset: -0.728 ms

# Below is generated by plot.py at 2018-12-20 09:47:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.41 Mbit/s
95th percentile per-packet one-way delay: 9.587 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 59.67 Mbit/s
95th percentile per-packet one-way delay: 9.163 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 40.69 Mbit/s
95th percentile per-packet one-way delay: 9.985 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 32.47 Mbit/s
95th percentile per-packet one-way delay: 8.908 ms
Loss rate: 0.11%
```

Run 2: Report of Indigo — Data Link

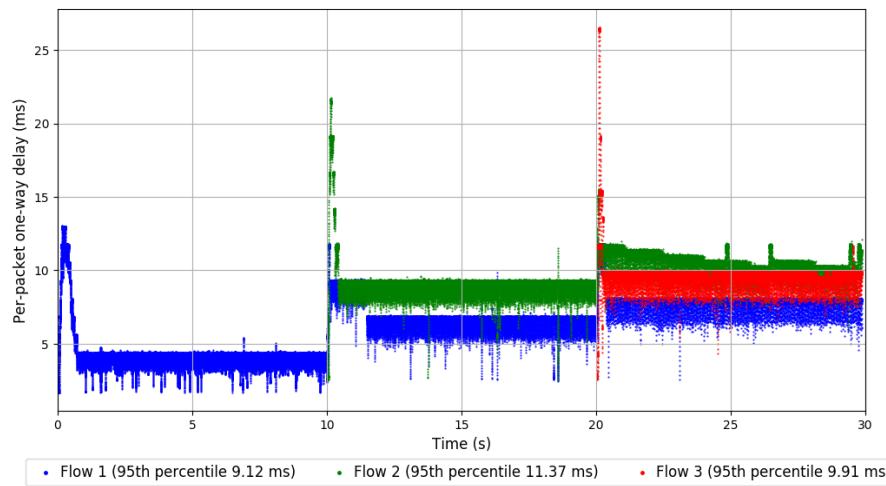
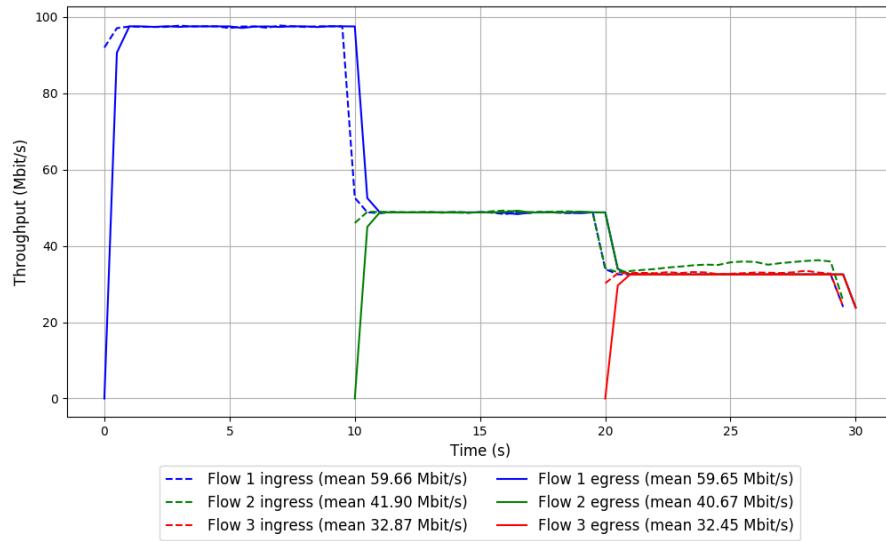


Run 3: Statistics of Indigo

```
Start at: 2018-12-20 08:44:56
End at: 2018-12-20 08:45:26
Local clock offset: -7.543 ms
Remote clock offset: -0.507 ms

# Below is generated by plot.py at 2018-12-20 09:48:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.38 Mbit/s
95th percentile per-packet one-way delay: 10.841 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 59.65 Mbit/s
95th percentile per-packet one-way delay: 9.121 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 40.67 Mbit/s
95th percentile per-packet one-way delay: 11.368 ms
Loss rate: 2.96%
-- Flow 3:
Average throughput: 32.45 Mbit/s
95th percentile per-packet one-way delay: 9.906 ms
Loss rate: 1.32%
```

Run 3: Report of Indigo — Data Link

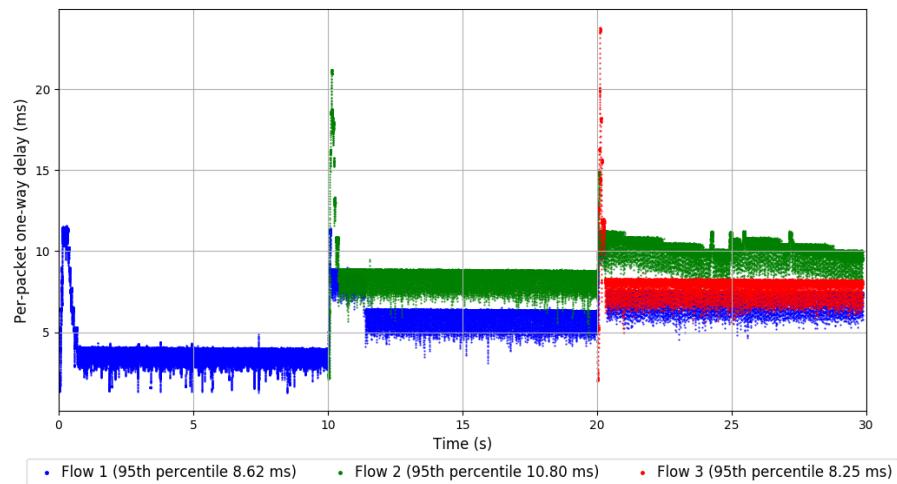
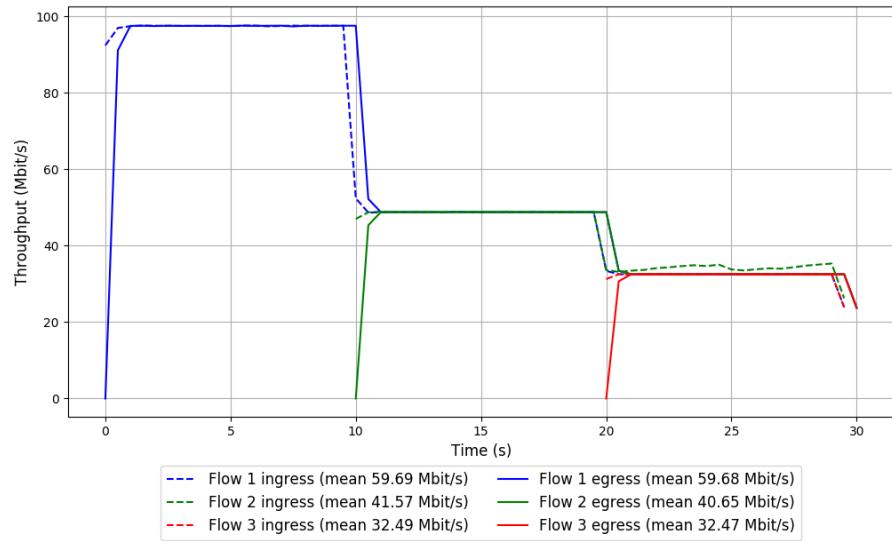


Run 4: Statistics of Indigo

```
Start at: 2018-12-20 09:06:53
End at: 2018-12-20 09:07:23
Local clock offset: -6.598 ms
Remote clock offset: -0.314 ms

# Below is generated by plot.py at 2018-12-20 09:48:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.42 Mbit/s
95th percentile per-packet one-way delay: 10.409 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 59.68 Mbit/s
95th percentile per-packet one-way delay: 8.621 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 40.65 Mbit/s
95th percentile per-packet one-way delay: 10.797 ms
Loss rate: 2.23%
-- Flow 3:
Average throughput: 32.47 Mbit/s
95th percentile per-packet one-way delay: 8.248 ms
Loss rate: 0.11%
```

Run 4: Report of Indigo — Data Link

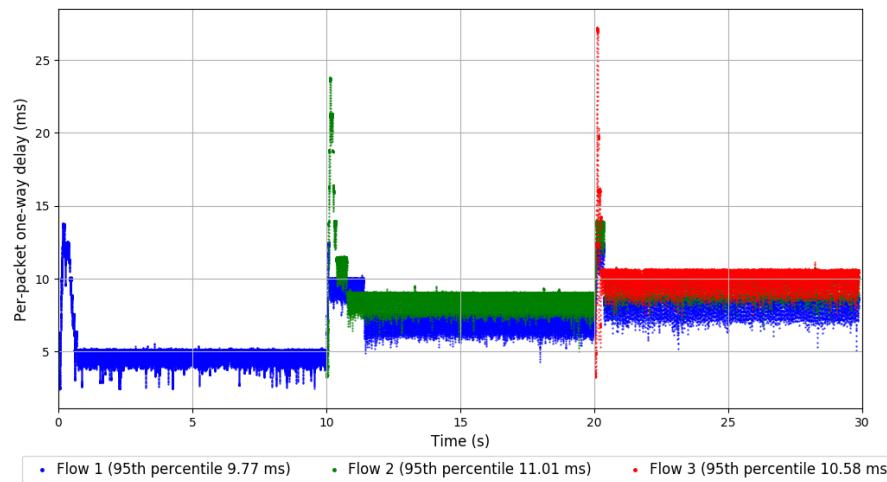
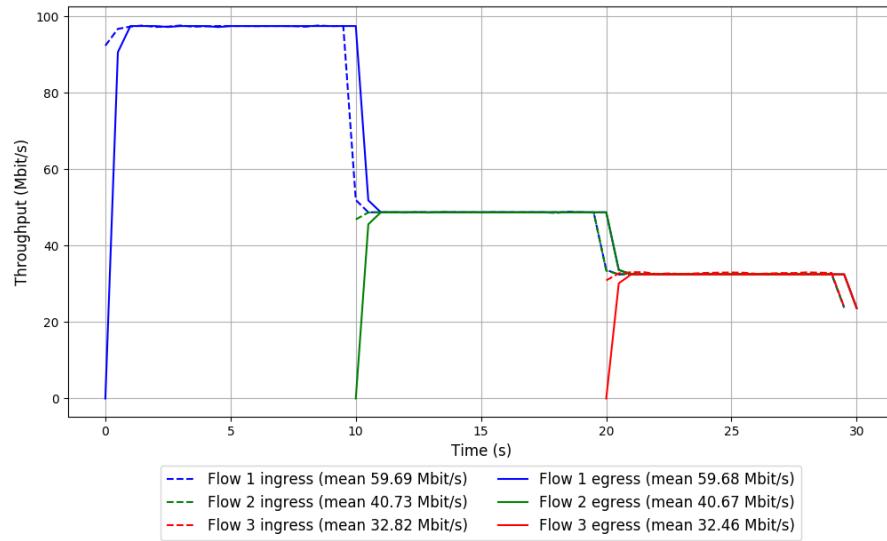


Run 5: Statistics of Indigo

```
Start at: 2018-12-20 09:28:51
End at: 2018-12-20 09:29:21
Local clock offset: 0.377 ms
Remote clock offset: -0.168 ms

# Below is generated by plot.py at 2018-12-20 09:48:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.42 Mbit/s
95th percentile per-packet one-way delay: 10.499 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 59.68 Mbit/s
95th percentile per-packet one-way delay: 9.771 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 40.67 Mbit/s
95th percentile per-packet one-way delay: 11.014 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 32.46 Mbit/s
95th percentile per-packet one-way delay: 10.584 ms
Loss rate: 1.14%
```

Run 5: Report of Indigo — Data Link

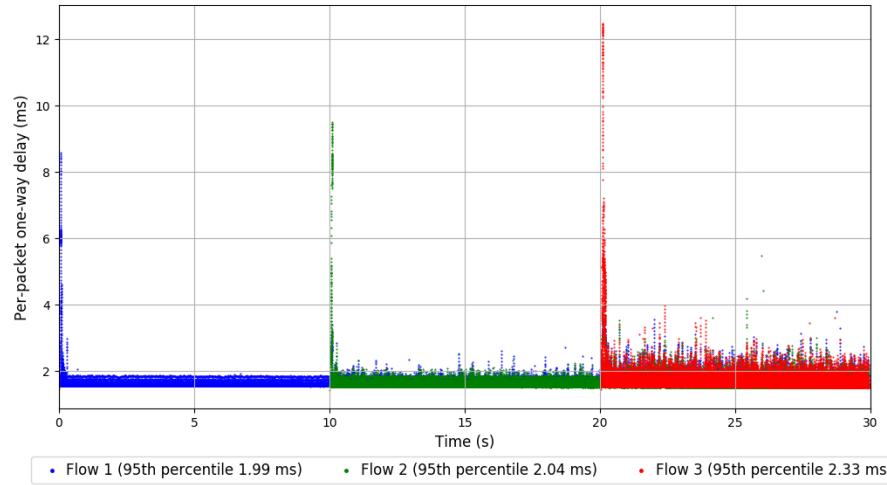
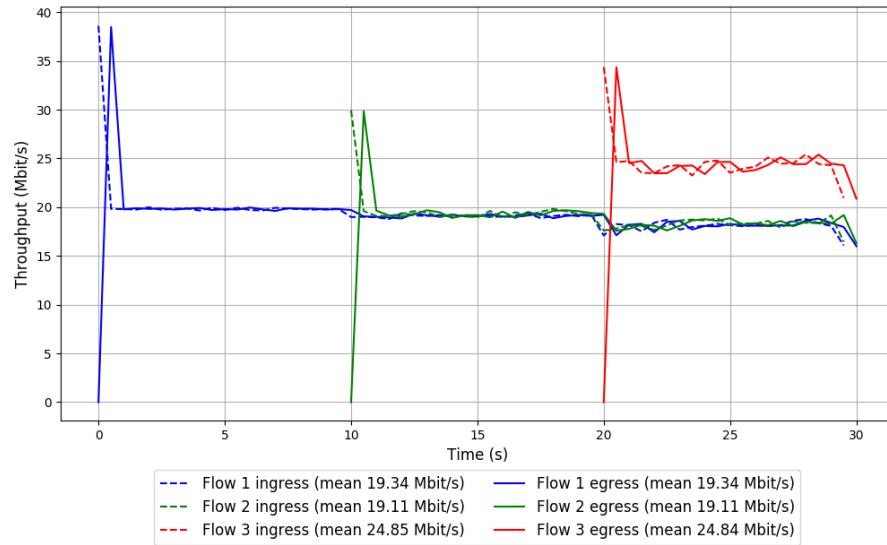


Run 1: Statistics of Indigo-MusesD

```
Start at: 2018-12-20 07:56:21
End at: 2018-12-20 07:56:51
Local clock offset: -1.016 ms
Remote clock offset: -0.739 ms

# Below is generated by plot.py at 2018-12-20 09:48:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.28 Mbit/s
95th percentile per-packet one-way delay: 2.084 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 19.34 Mbit/s
95th percentile per-packet one-way delay: 1.986 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 19.11 Mbit/s
95th percentile per-packet one-way delay: 2.035 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 24.84 Mbit/s
95th percentile per-packet one-way delay: 2.335 ms
Loss rate: 0.04%
```

Run 1: Report of Indigo-MusesD — Data Link

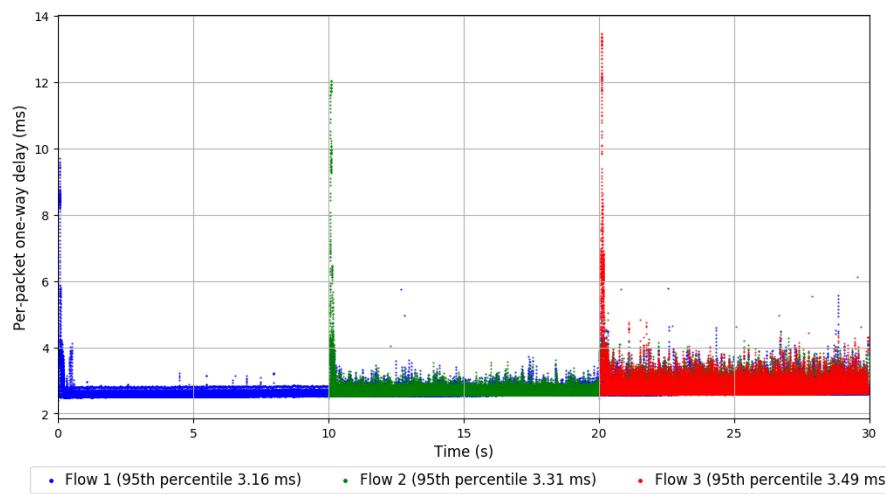
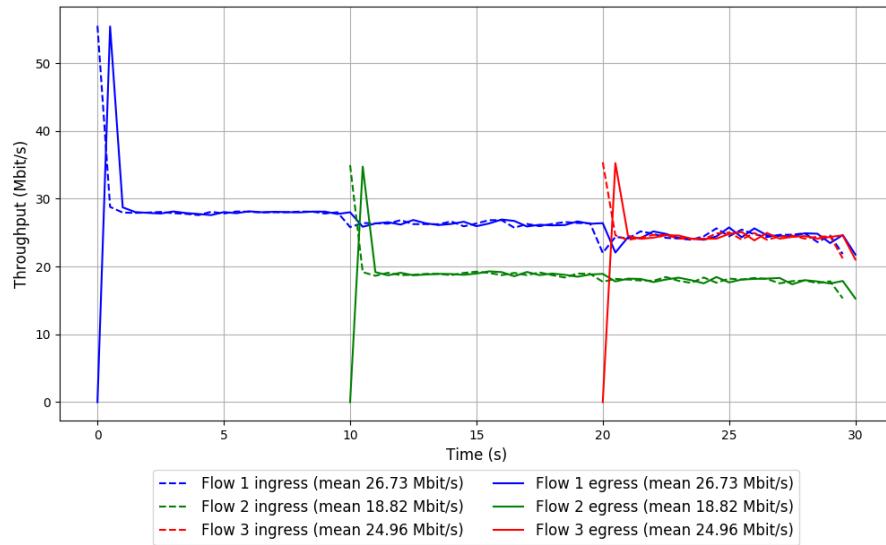


Run 2: Statistics of Indigo-MusesD

```
Start at: 2018-12-20 08:18:16
End at: 2018-12-20 08:18:46
Local clock offset: -5.305 ms
Remote clock offset: -0.752 ms

# Below is generated by plot.py at 2018-12-20 09:48:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 47.53 Mbit/s
95th percentile per-packet one-way delay: 3.278 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 26.73 Mbit/s
95th percentile per-packet one-way delay: 3.162 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 18.82 Mbit/s
95th percentile per-packet one-way delay: 3.306 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 24.96 Mbit/s
95th percentile per-packet one-way delay: 3.492 ms
Loss rate: 0.04%
```

Run 2: Report of Indigo-MusesD — Data Link

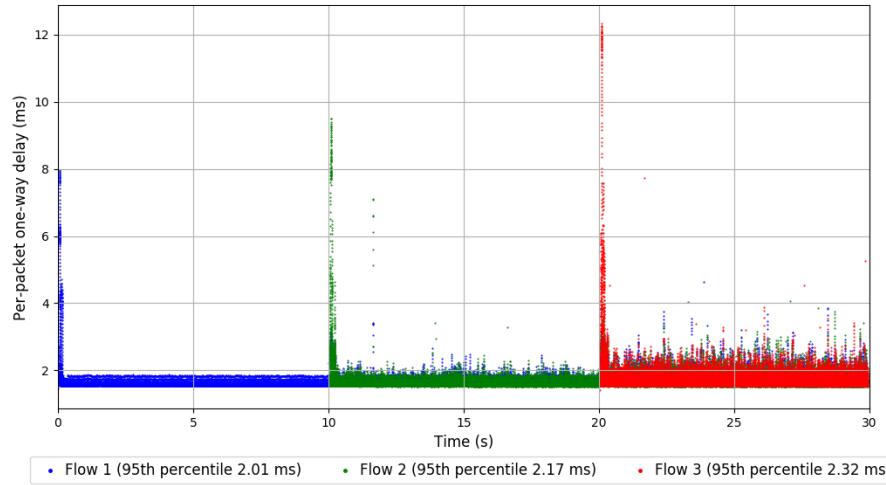
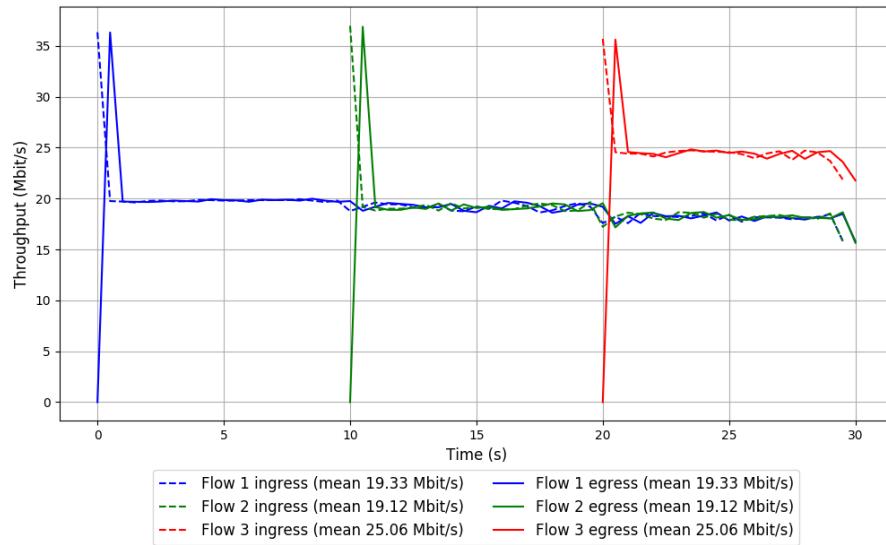


Run 3: Statistics of Indigo-MusesD

```
Start at: 2018-12-20 08:40:14
End at: 2018-12-20 08:40:44
Local clock offset: -7.74 ms
Remote clock offset: -0.498 ms

# Below is generated by plot.py at 2018-12-20 09:48:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.35 Mbit/s
95th percentile per-packet one-way delay: 2.143 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 19.33 Mbit/s
95th percentile per-packet one-way delay: 2.013 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 19.12 Mbit/s
95th percentile per-packet one-way delay: 2.173 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 25.06 Mbit/s
95th percentile per-packet one-way delay: 2.318 ms
Loss rate: 0.04%
```

Run 3: Report of Indigo-MusesD — Data Link

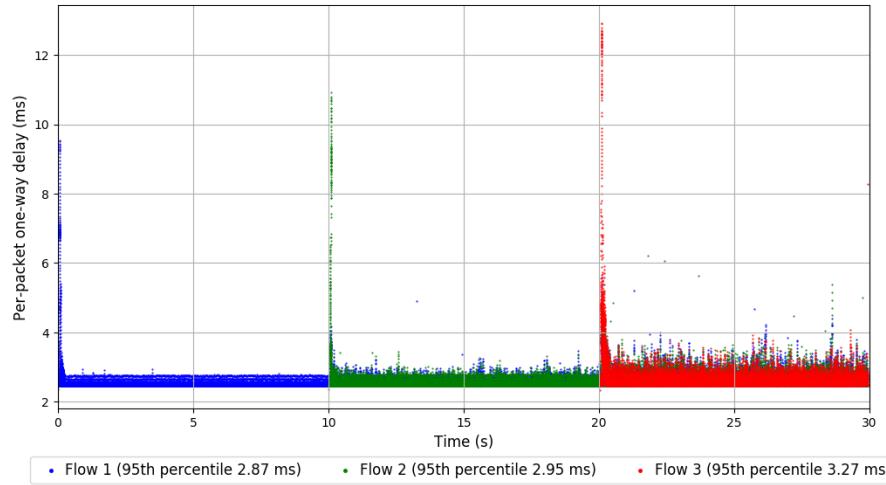
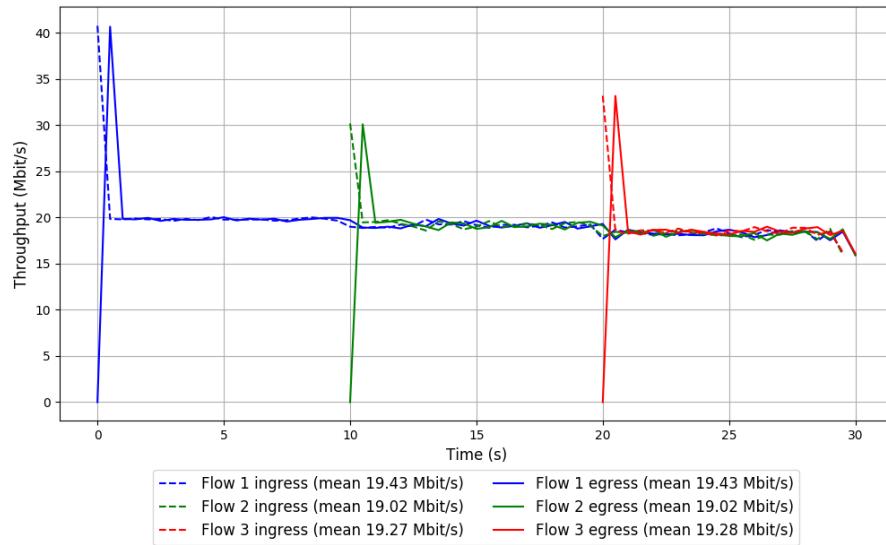


Run 4: Statistics of Indigo-MusesD

```
Start at: 2018-12-20 09:02:11
End at: 2018-12-20 09:02:41
Local clock offset: -6.886 ms
Remote clock offset: -0.348 ms

# Below is generated by plot.py at 2018-12-20 09:48:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.47 Mbit/s
95th percentile per-packet one-way delay: 2.961 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 19.43 Mbit/s
95th percentile per-packet one-way delay: 2.873 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 19.02 Mbit/s
95th percentile per-packet one-way delay: 2.948 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 19.28 Mbit/s
95th percentile per-packet one-way delay: 3.275 ms
Loss rate: 0.05%
```

Run 4: Report of Indigo-MusesD — Data Link

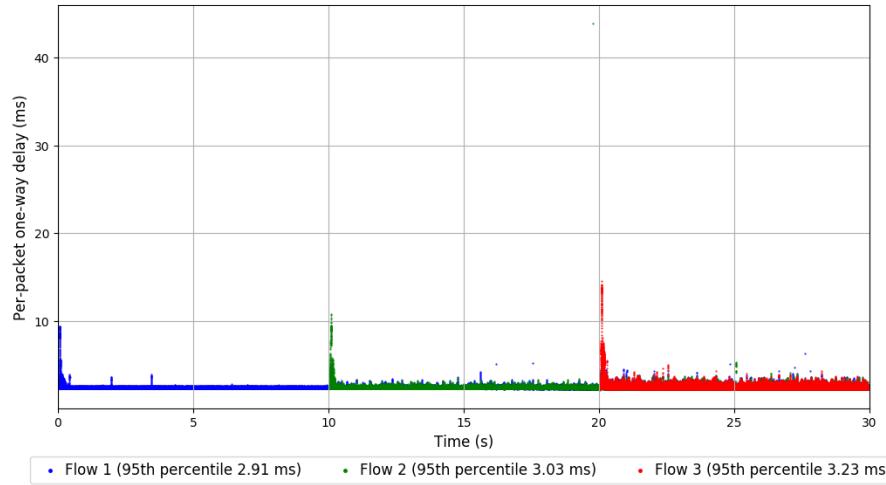
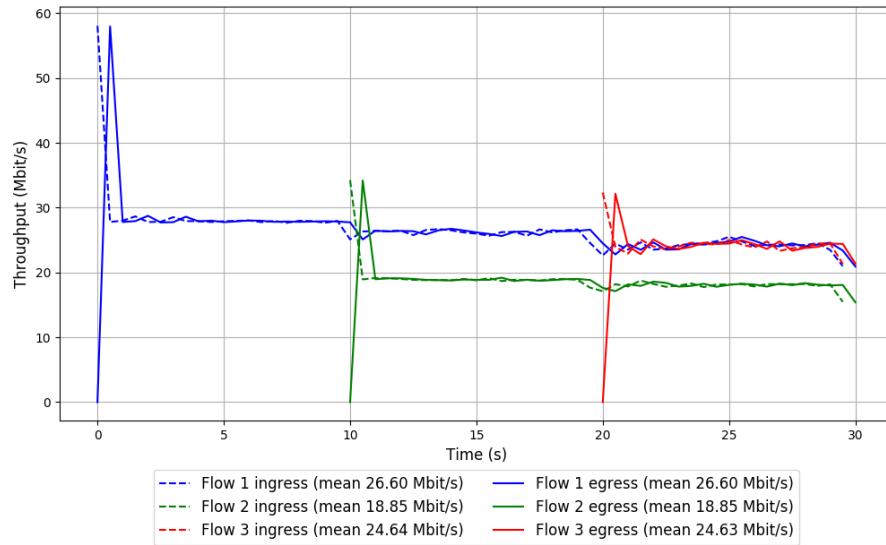


Run 5: Statistics of Indigo-MusesD

```
Start at: 2018-12-20 09:24:07
End at: 2018-12-20 09:24:37
Local clock offset: -0.175 ms
Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2018-12-20 09:48:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 47.31 Mbit/s
95th percentile per-packet one-way delay: 3.020 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 26.60 Mbit/s
95th percentile per-packet one-way delay: 2.914 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 18.85 Mbit/s
95th percentile per-packet one-way delay: 3.034 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 24.63 Mbit/s
95th percentile per-packet one-way delay: 3.235 ms
Loss rate: 0.03%
```

Run 5: Report of Indigo-MusesD — Data Link

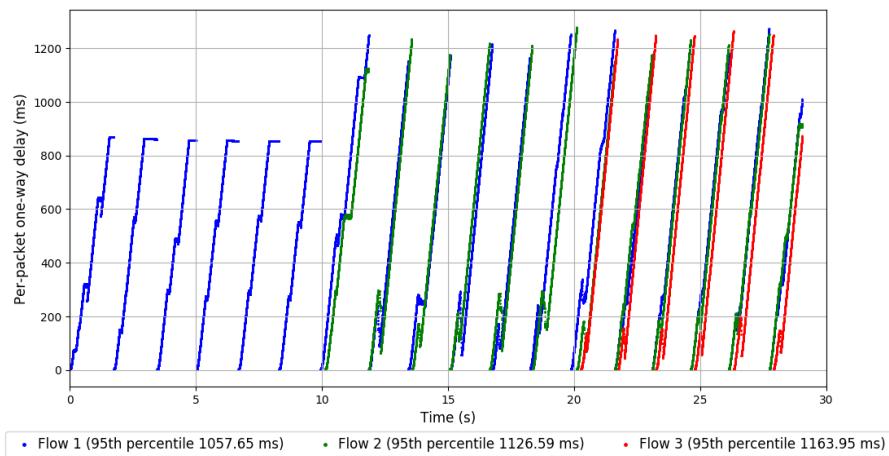
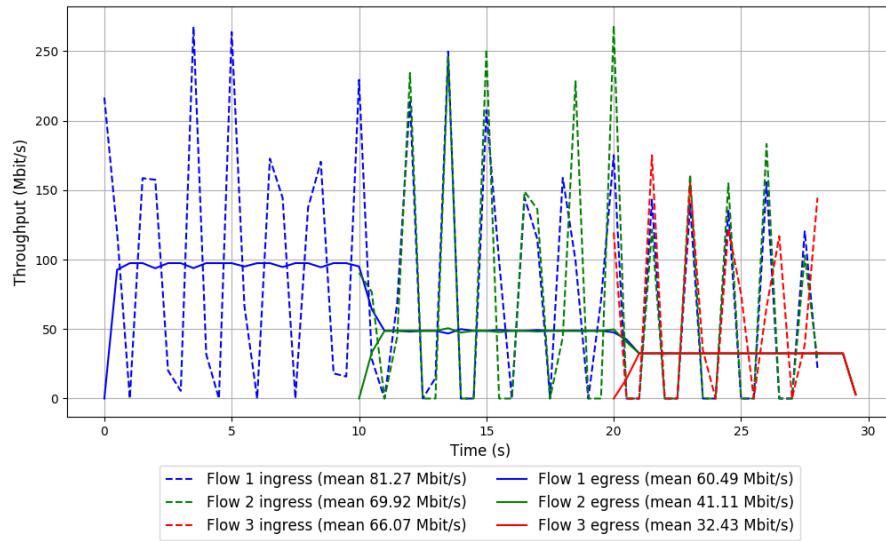


Run 1: Statistics of Indigo-MusesT

```
Start at: 2018-12-20 07:55:11
End at: 2018-12-20 07:55:41
Local clock offset: -0.483 ms
Remote clock offset: -0.812 ms

# Below is generated by plot.py at 2018-12-20 09:48:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.07 Mbit/s
95th percentile per-packet one-way delay: 1098.417 ms
Loss rate: 30.66%
-- Flow 1:
Average throughput: 60.49 Mbit/s
95th percentile per-packet one-way delay: 1057.650 ms
Loss rate: 22.96%
-- Flow 2:
Average throughput: 41.11 Mbit/s
95th percentile per-packet one-way delay: 1126.593 ms
Loss rate: 38.35%
-- Flow 3:
Average throughput: 32.43 Mbit/s
95th percentile per-packet one-way delay: 1163.948 ms
Loss rate: 45.64%
```

Run 1: Report of Indigo-MusesT — Data Link

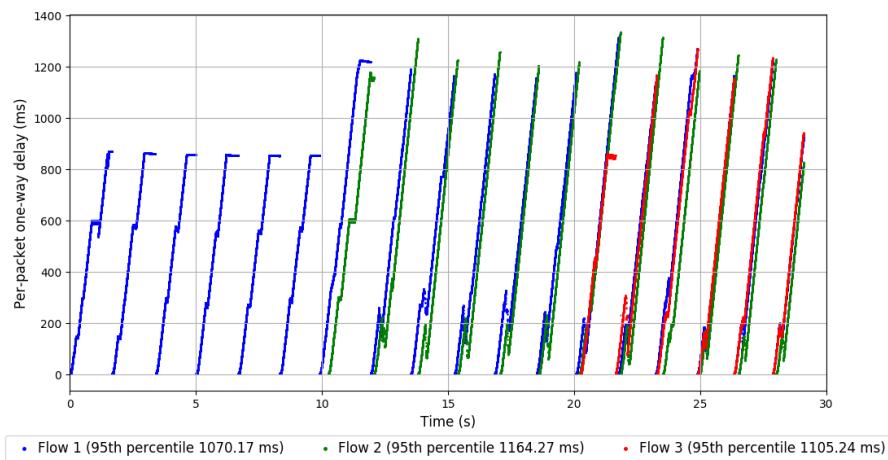
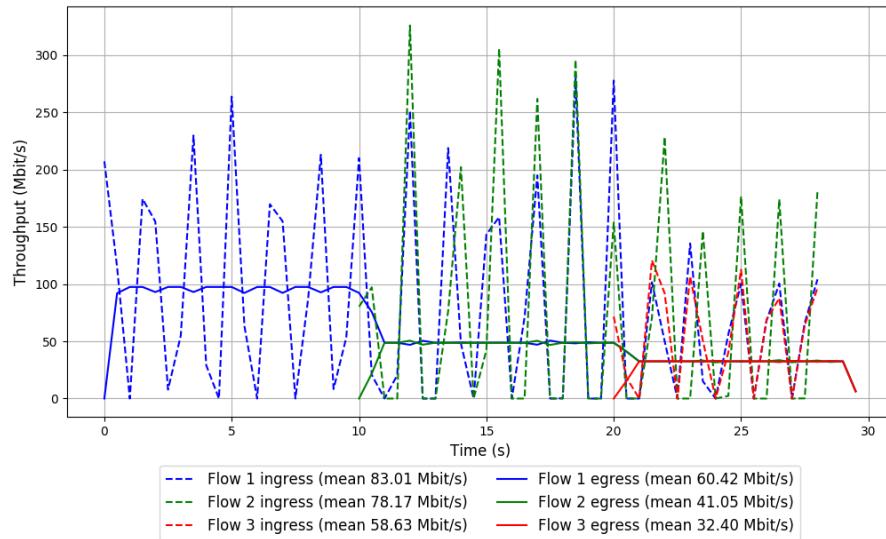


Run 2: Statistics of Indigo-MusesT

```
Start at: 2018-12-20 08:17:06
End at: 2018-12-20 08:17:36
Local clock offset: -5.801 ms
Remote clock offset: -0.743 ms

# Below is generated by plot.py at 2018-12-20 09:49:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.86 Mbit/s
95th percentile per-packet one-way delay: 1122.681 ms
Loss rate: 33.12%
-- Flow 1:
Average throughput: 60.42 Mbit/s
95th percentile per-packet one-way delay: 1070.168 ms
Loss rate: 24.85%
-- Flow 2:
Average throughput: 41.05 Mbit/s
95th percentile per-packet one-way delay: 1164.265 ms
Loss rate: 45.14%
-- Flow 3:
Average throughput: 32.40 Mbit/s
95th percentile per-packet one-way delay: 1105.237 ms
Loss rate: 38.27%
```

Run 2: Report of Indigo-MusesT — Data Link

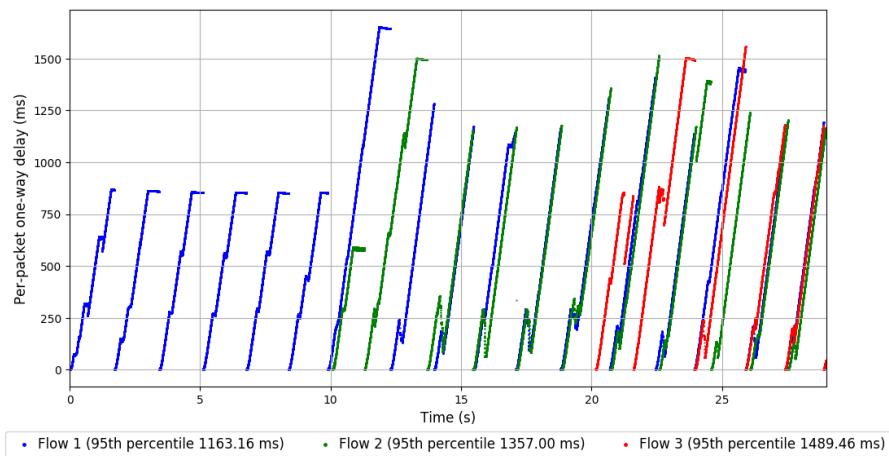
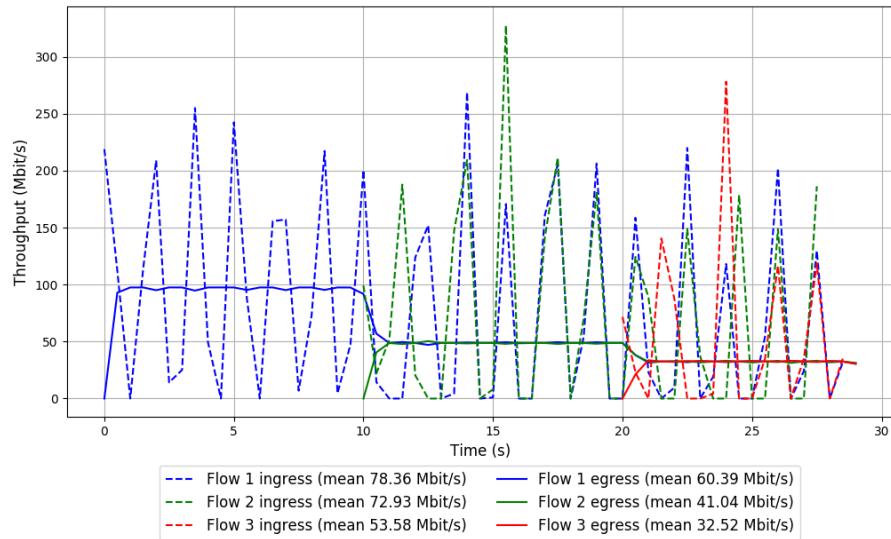


Run 3: Statistics of Indigo-MusesT

```
Start at: 2018-12-20 08:39:04
End at: 2018-12-20 08:39:34
Local clock offset: -7.735 ms
Remote clock offset: -0.569 ms

# Below is generated by plot.py at 2018-12-20 09:49:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.08 Mbit/s
95th percentile per-packet one-way delay: 1280.323 ms
Loss rate: 30.35%
-- Flow 1:
Average throughput: 60.39 Mbit/s
95th percentile per-packet one-way delay: 1163.165 ms
Loss rate: 22.95%
-- Flow 2:
Average throughput: 41.04 Mbit/s
95th percentile per-packet one-way delay: 1356.999 ms
Loss rate: 40.05%
-- Flow 3:
Average throughput: 32.52 Mbit/s
95th percentile per-packet one-way delay: 1489.462 ms
Loss rate: 39.32%
```

Run 3: Report of Indigo-MusesT — Data Link

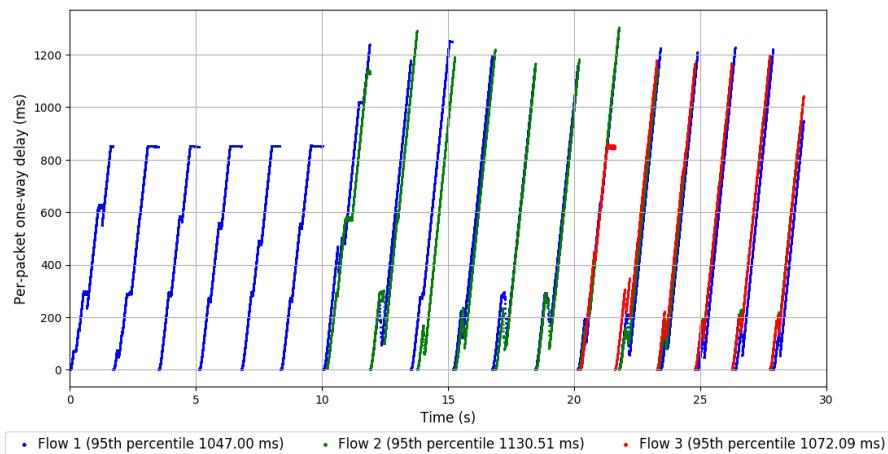
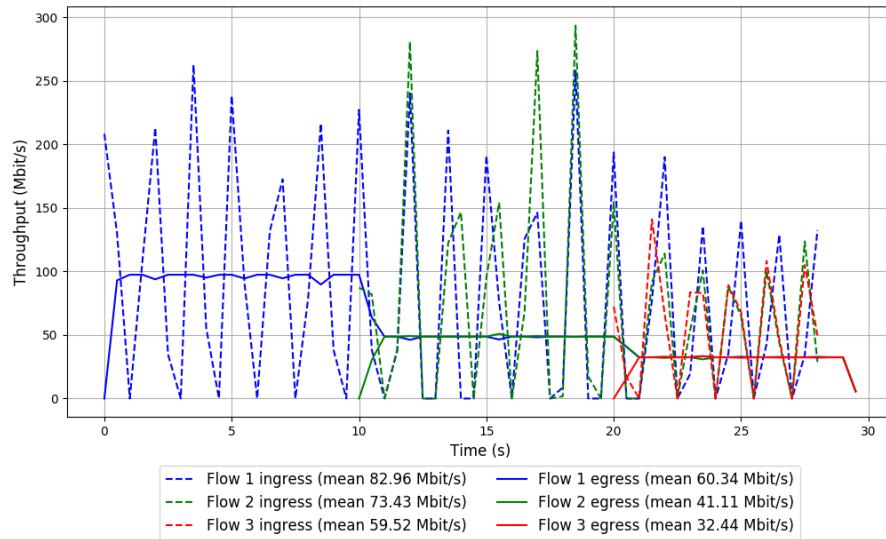


Run 4: Statistics of Indigo-MusesT

```
Start at: 2018-12-20 09:01:01
End at: 2018-12-20 09:01:31
Local clock offset: -7.613 ms
Remote clock offset: -0.319 ms

# Below is generated by plot.py at 2018-12-20 09:49:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.95 Mbit/s
95th percentile per-packet one-way delay: 1089.224 ms
Loss rate: 31.46%
-- Flow 1:
Average throughput: 60.34 Mbit/s
95th percentile per-packet one-way delay: 1047.000 ms
Loss rate: 24.84%
-- Flow 2:
Average throughput: 41.11 Mbit/s
95th percentile per-packet one-way delay: 1130.507 ms
Loss rate: 40.79%
-- Flow 3:
Average throughput: 32.44 Mbit/s
95th percentile per-packet one-way delay: 1072.094 ms
Loss rate: 38.32%
```

Run 4: Report of Indigo-MusesT — Data Link

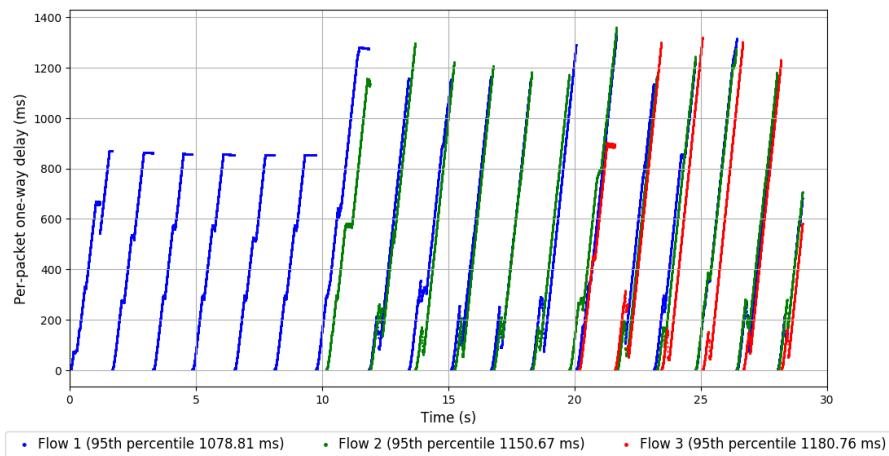
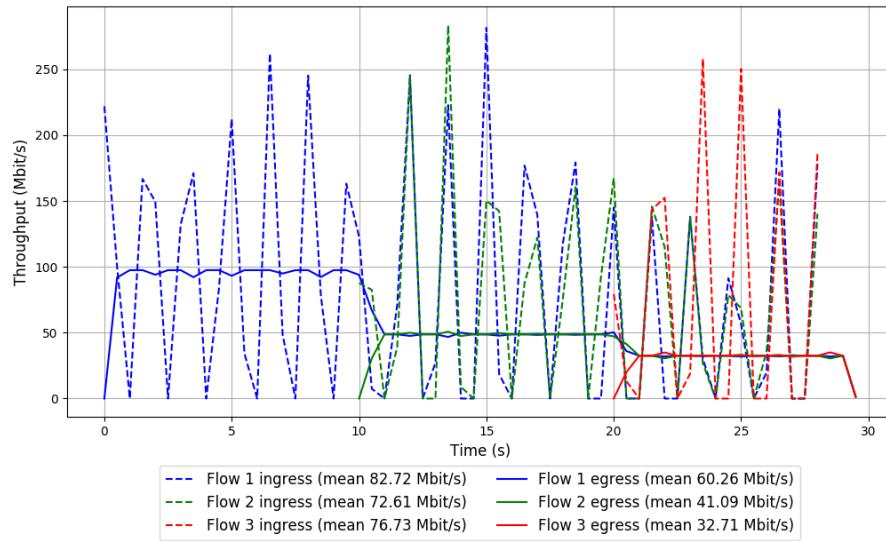


Run 5: Statistics of Indigo-MusesT

```
Start at: 2018-12-20 09:22:57
End at: 2018-12-20 09:23:27
Local clock offset: -0.459 ms
Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2018-12-20 09:49:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.93 Mbit/s
95th percentile per-packet one-way delay: 1127.091 ms
Loss rate: 34.76%
-- Flow 1:
Average throughput: 60.26 Mbit/s
95th percentile per-packet one-way delay: 1078.812 ms
Loss rate: 25.51%
-- Flow 2:
Average throughput: 41.09 Mbit/s
95th percentile per-packet one-way delay: 1150.667 ms
Loss rate: 41.64%
-- Flow 3:
Average throughput: 32.71 Mbit/s
95th percentile per-packet one-way delay: 1180.757 ms
Loss rate: 54.51%
```

Run 5: Report of Indigo-MusesT — Data Link

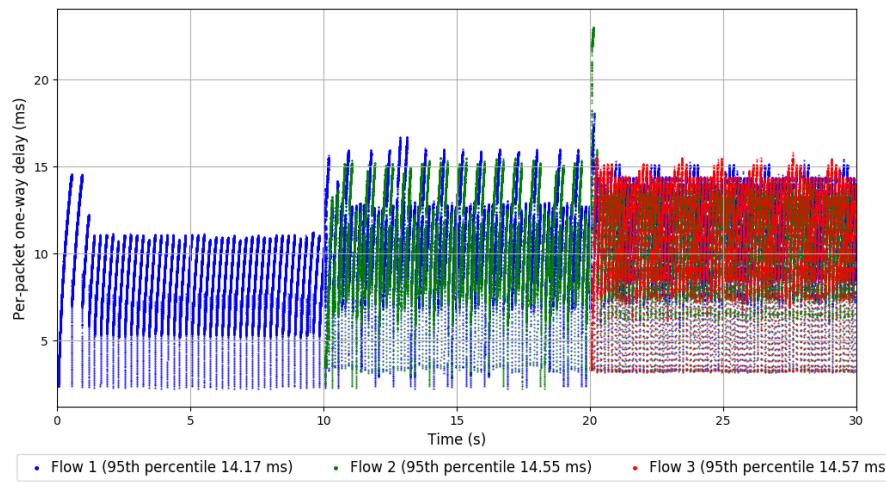
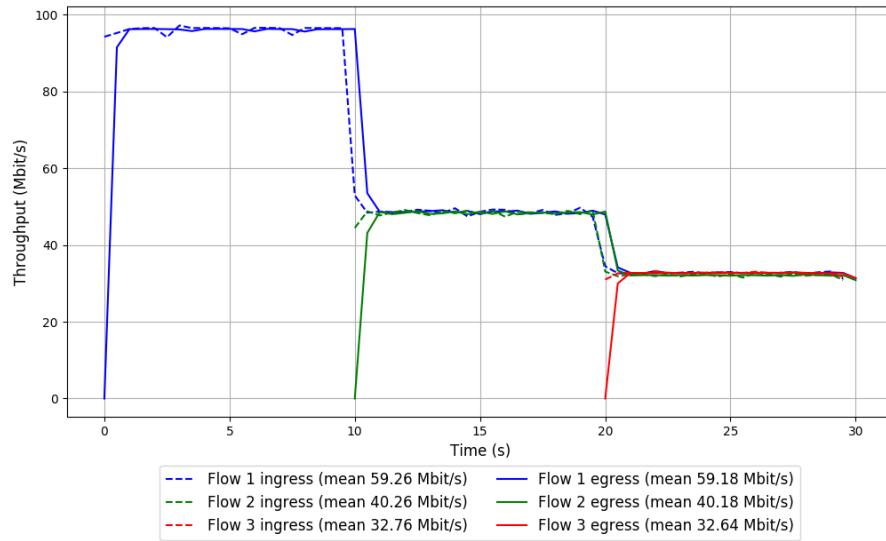


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2018-12-20 07:59:53
End at: 2018-12-20 08:00:23
Local clock offset: 0.088 ms
Remote clock offset: -0.829 ms

# Below is generated by plot.py at 2018-12-20 09:49:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.77 Mbit/s
95th percentile per-packet one-way delay: 14.342 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 59.18 Mbit/s
95th percentile per-packet one-way delay: 14.166 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 40.18 Mbit/s
95th percentile per-packet one-way delay: 14.555 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 32.64 Mbit/s
95th percentile per-packet one-way delay: 14.570 ms
Loss rate: 0.40%
```

Run 1: Report of LEDBAT — Data Link

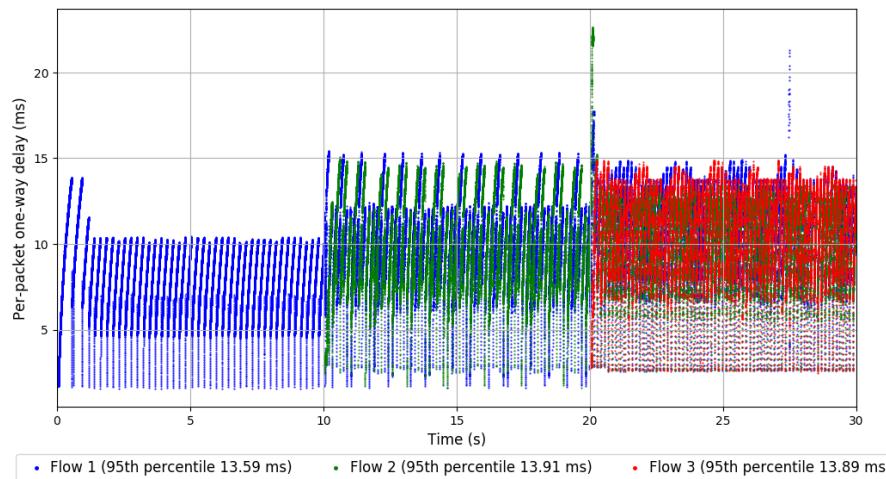
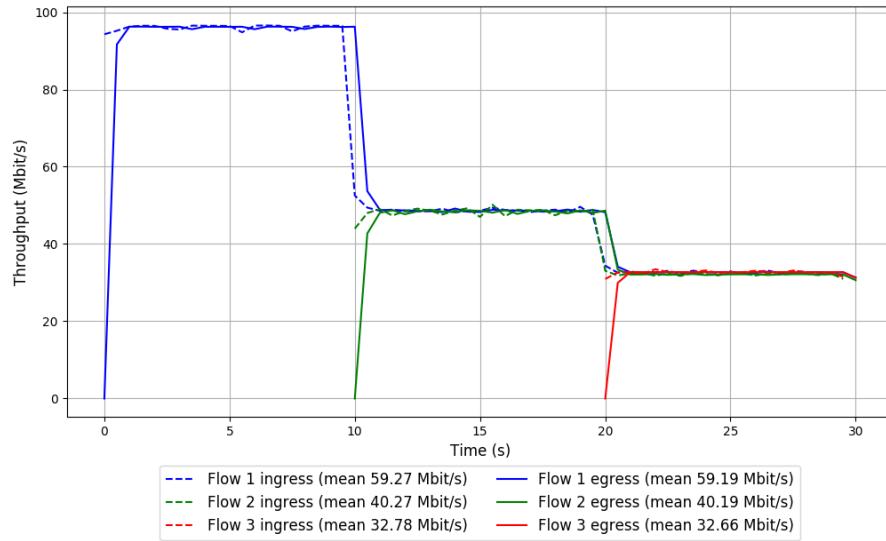


Run 2: Statistics of LEDBAT

```
Start at: 2018-12-20 08:21:48
End at: 2018-12-20 08:22:18
Local clock offset: -6.718 ms
Remote clock offset: -0.721 ms

# Below is generated by plot.py at 2018-12-20 09:49:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.79 Mbit/s
95th percentile per-packet one-way delay: 13.732 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 59.19 Mbit/s
95th percentile per-packet one-way delay: 13.593 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 40.19 Mbit/s
95th percentile per-packet one-way delay: 13.914 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 32.66 Mbit/s
95th percentile per-packet one-way delay: 13.891 ms
Loss rate: 0.38%
```

Run 2: Report of LEDBAT — Data Link

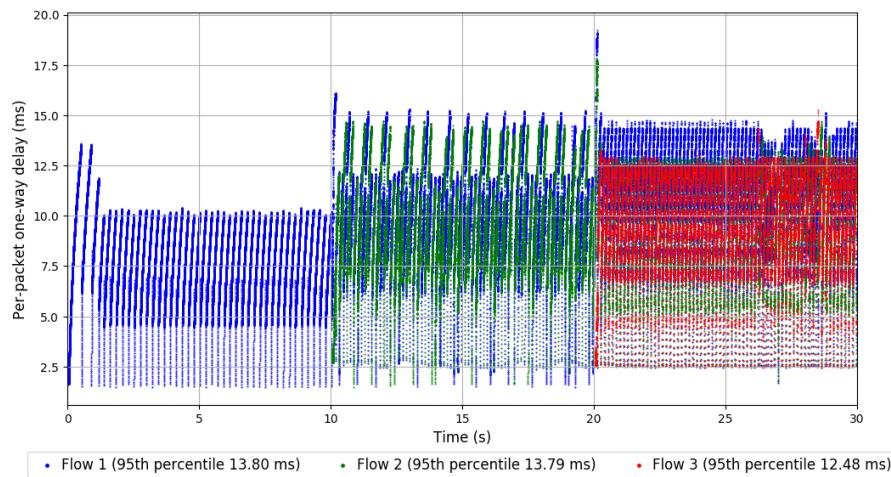
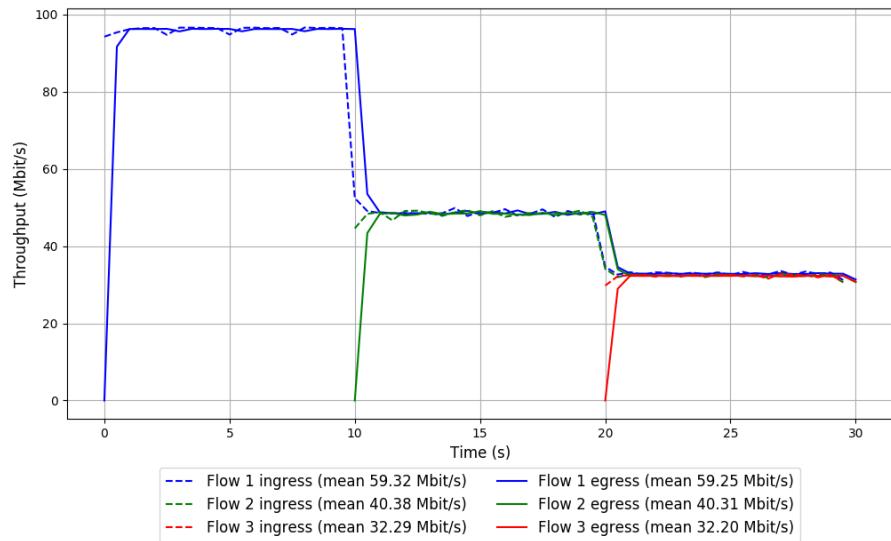


Run 3: Statistics of LEDBAT

```
Start at: 2018-12-20 08:43:46
End at: 2018-12-20 08:44:16
Local clock offset: -7.62 ms
Remote clock offset: -0.51 ms

# Below is generated by plot.py at 2018-12-20 09:49:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.77 Mbit/s
95th percentile per-packet one-way delay: 13.699 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 59.25 Mbit/s
95th percentile per-packet one-way delay: 13.805 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 40.31 Mbit/s
95th percentile per-packet one-way delay: 13.792 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 32.20 Mbit/s
95th percentile per-packet one-way delay: 12.485 ms
Loss rate: 0.34%
```

Run 3: Report of LEDBAT — Data Link

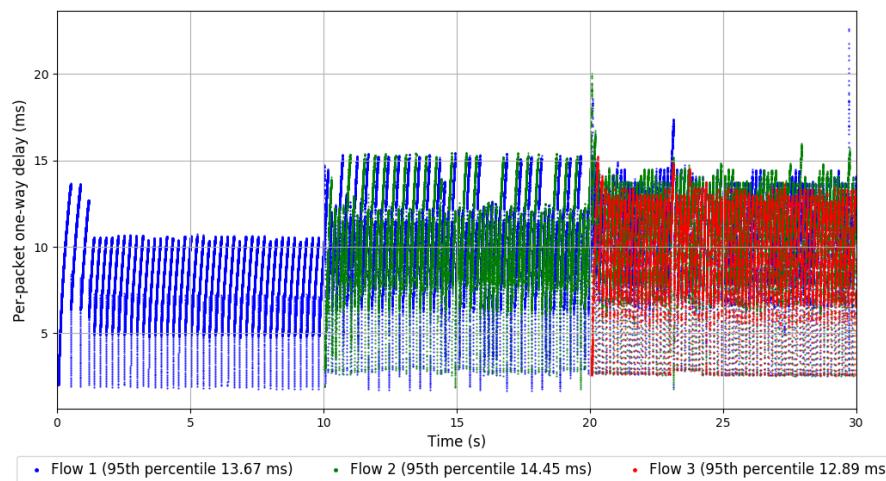
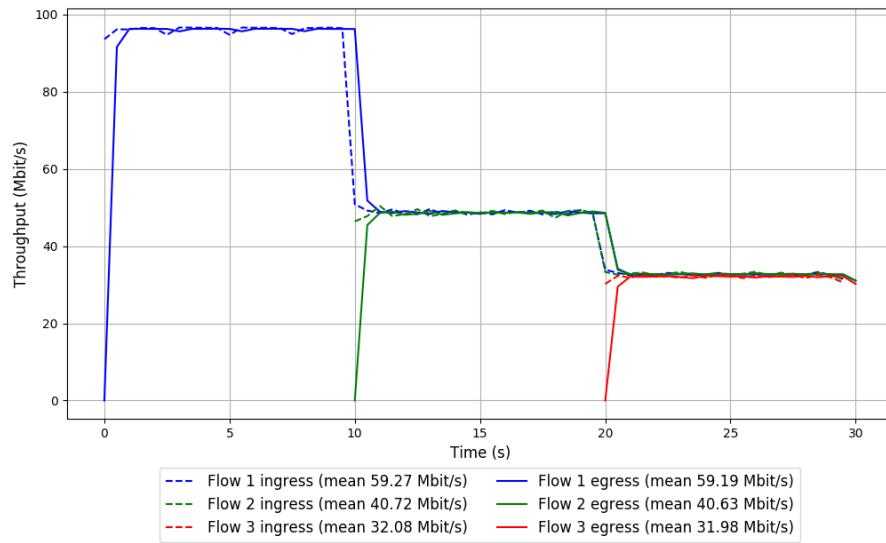


Run 4: Statistics of LEDBAT

```
Start at: 2018-12-20 09:05:43
End at: 2018-12-20 09:06:13
Local clock offset: -6.682 ms
Remote clock offset: -0.235 ms

# Below is generated by plot.py at 2018-12-20 09:50:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.88 Mbit/s
95th percentile per-packet one-way delay: 13.935 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 59.19 Mbit/s
95th percentile per-packet one-way delay: 13.669 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 40.63 Mbit/s
95th percentile per-packet one-way delay: 14.454 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 31.98 Mbit/s
95th percentile per-packet one-way delay: 12.889 ms
Loss rate: 0.35%
```

Run 4: Report of LEDBAT — Data Link

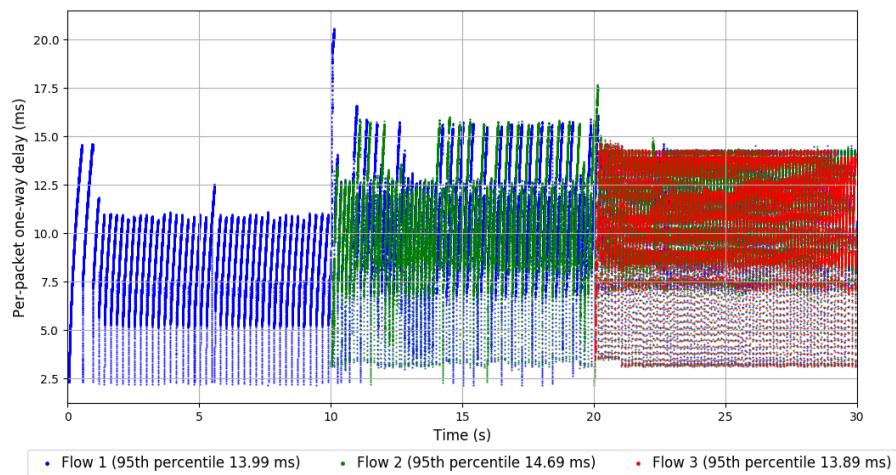
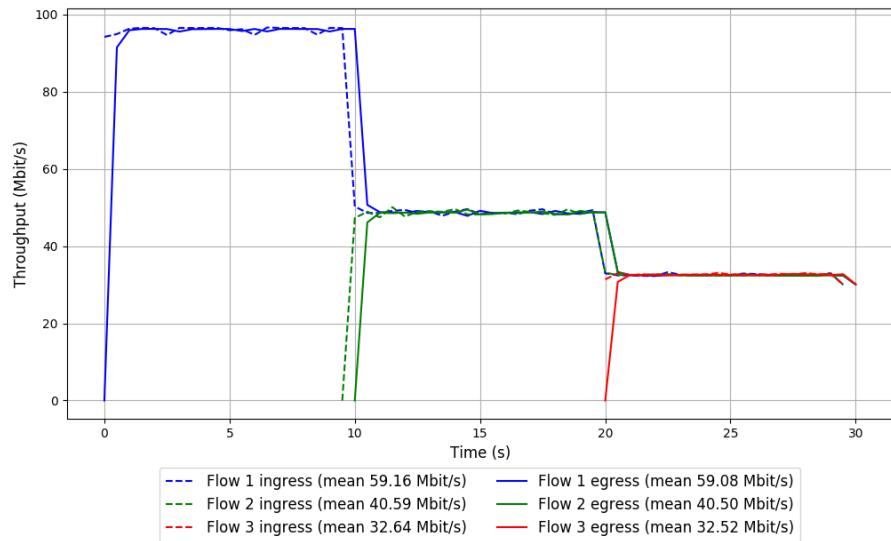


Run 5: Statistics of LEDBAT

```
Start at: 2018-12-20 09:27:41
End at: 2018-12-20 09:28:11
Local clock offset: 0.193 ms
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2018-12-20 09:50:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.87 Mbit/s
95th percentile per-packet one-way delay: 14.164 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 59.08 Mbit/s
95th percentile per-packet one-way delay: 13.990 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 40.50 Mbit/s
95th percentile per-packet one-way delay: 14.687 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 32.52 Mbit/s
95th percentile per-packet one-way delay: 13.889 ms
Loss rate: 0.39%
```

Run 5: Report of LEDBAT — Data Link

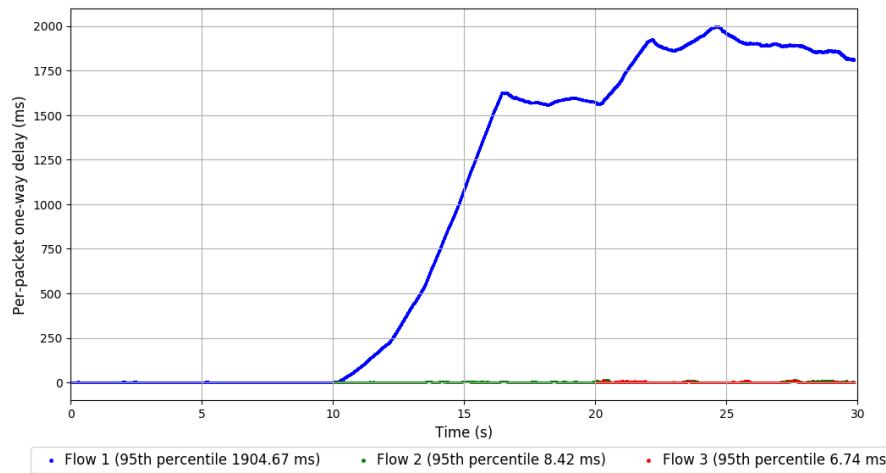
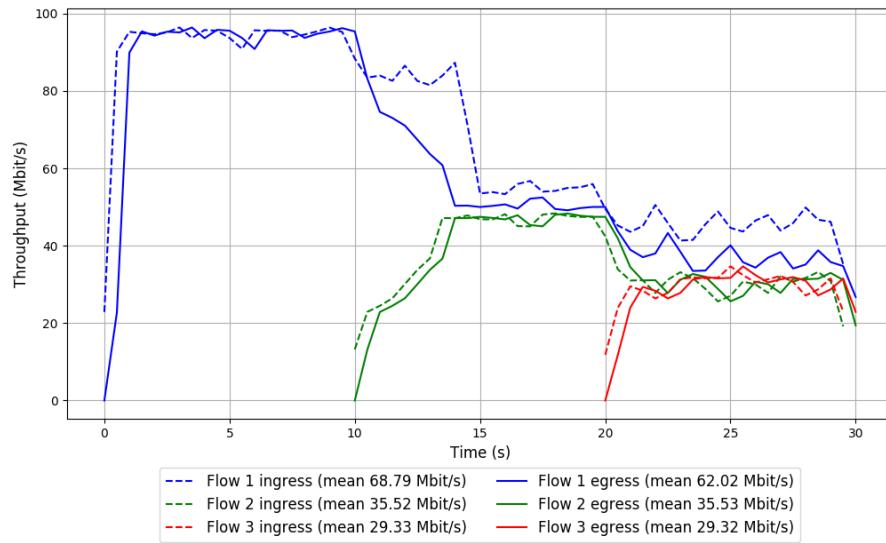


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2018-12-20 07:54:02
End at: 2018-12-20 07:54:32
Local clock offset: -1.349 ms
Remote clock offset: -0.799 ms

# Below is generated by plot.py at 2018-12-20 09:50:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.30 Mbit/s
95th percentile per-packet one-way delay: 1894.074 ms
Loss rate: 6.64%
-- Flow 1:
Average throughput: 62.02 Mbit/s
95th percentile per-packet one-way delay: 1904.666 ms
Loss rate: 9.84%
-- Flow 2:
Average throughput: 35.53 Mbit/s
95th percentile per-packet one-way delay: 8.419 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 29.32 Mbit/s
95th percentile per-packet one-way delay: 6.737 ms
Loss rate: 0.06%
```

Run 1: Report of PCC-Allegro — Data Link

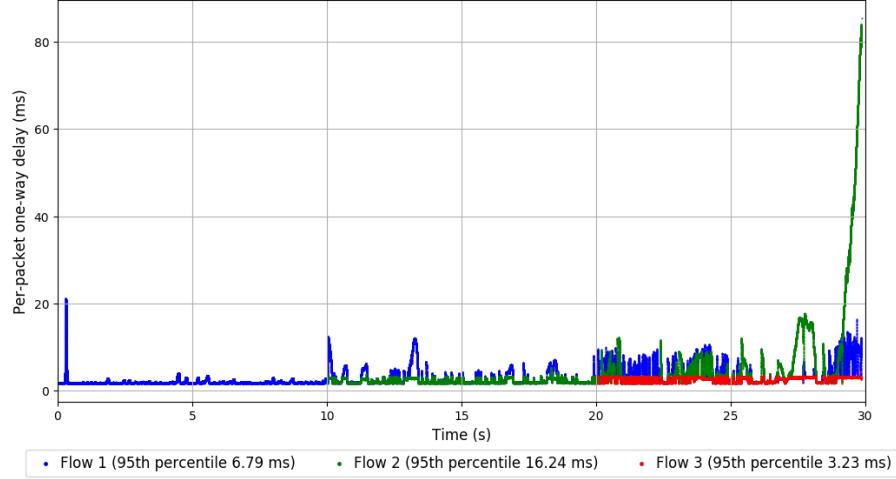
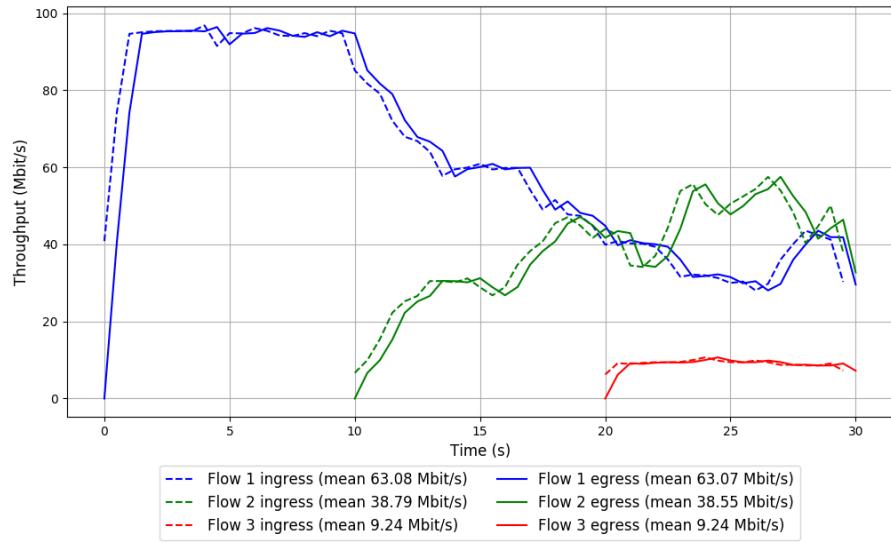


Run 2: Statistics of PCC-Allegro

```
Start at: 2018-12-20 08:15:58
End at: 2018-12-20 08:16:28
Local clock offset: -5.503 ms
Remote clock offset: -0.788 ms

# Below is generated by plot.py at 2018-12-20 09:50:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.74 Mbit/s
95th percentile per-packet one-way delay: 8.770 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 63.07 Mbit/s
95th percentile per-packet one-way delay: 6.789 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 38.55 Mbit/s
95th percentile per-packet one-way delay: 16.239 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 9.24 Mbit/s
95th percentile per-packet one-way delay: 3.234 ms
Loss rate: 0.05%
```

Run 2: Report of PCC-Allegro — Data Link

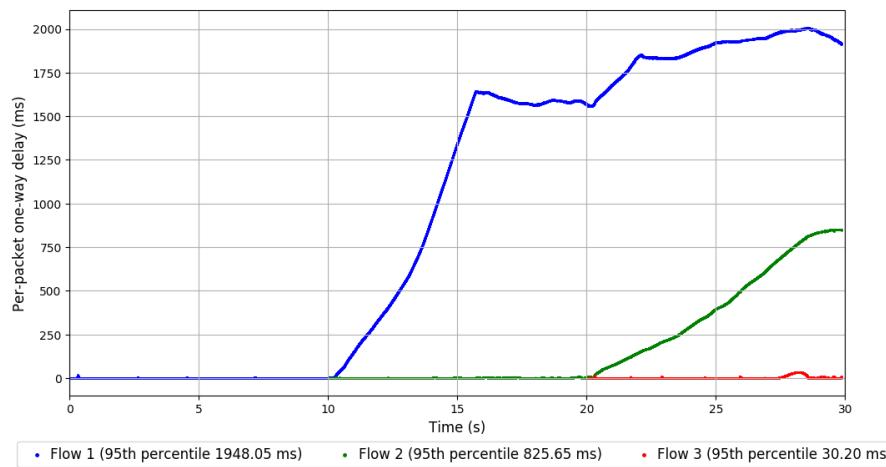
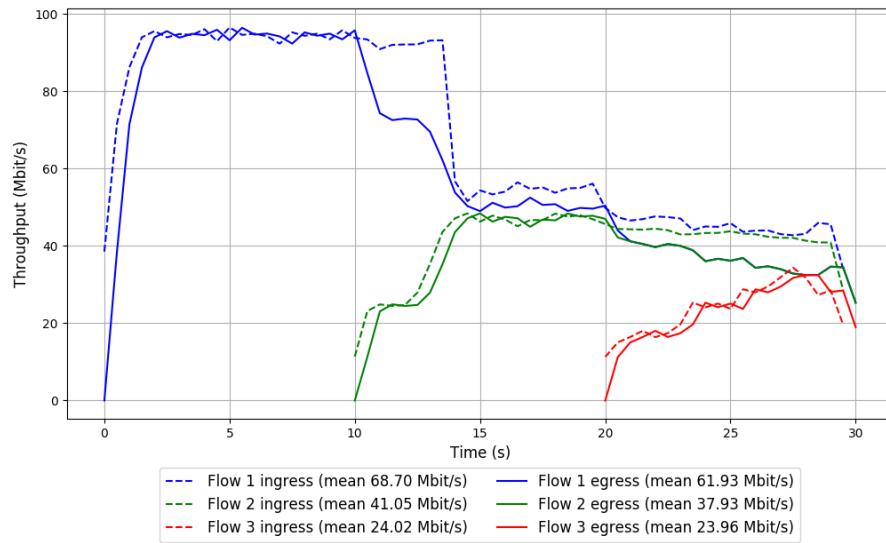


Run 3: Statistics of PCC-Allegro

```
Start at: 2018-12-20 08:37:55
End at: 2018-12-20 08:38:25
Local clock offset: -7.794 ms
Remote clock offset: -0.563 ms

# Below is generated by plot.py at 2018-12-20 09:50:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.03 Mbit/s
95th percentile per-packet one-way delay: 1928.608 ms
Loss rate: 8.55%
-- Flow 1:
Average throughput: 61.93 Mbit/s
95th percentile per-packet one-way delay: 1948.045 ms
Loss rate: 9.86%
-- Flow 2:
Average throughput: 37.93 Mbit/s
95th percentile per-packet one-way delay: 825.652 ms
Loss rate: 7.64%
-- Flow 3:
Average throughput: 23.96 Mbit/s
95th percentile per-packet one-way delay: 30.195 ms
Loss rate: 0.30%
```

Run 3: Report of PCC-Allegro — Data Link

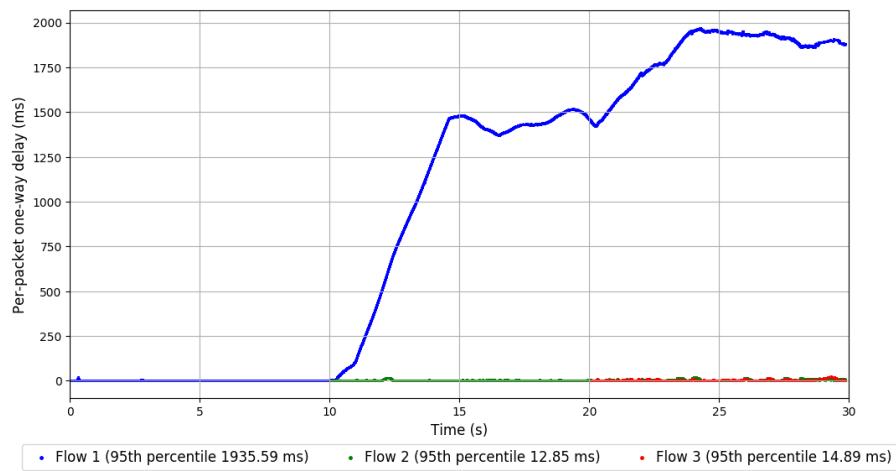
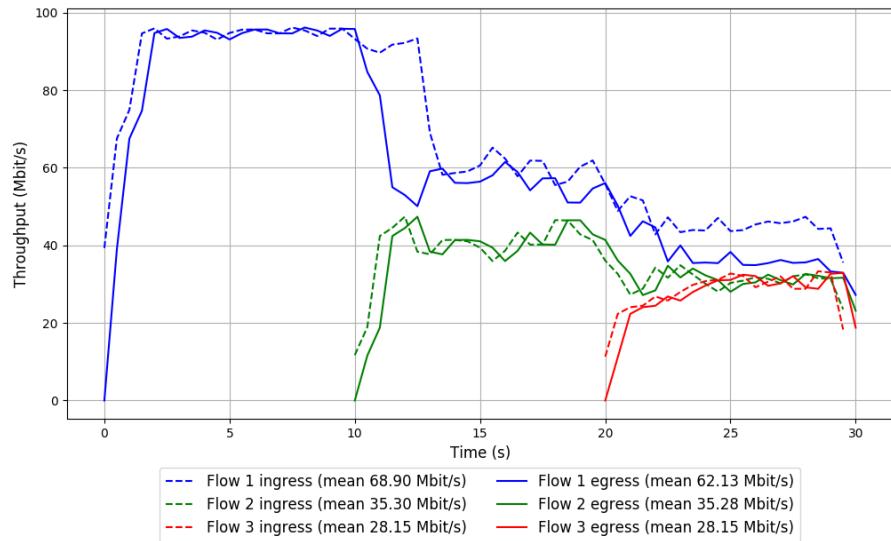


Run 4: Statistics of PCC-Allegro

```
Start at: 2018-12-20 08:59:52
End at: 2018-12-20 09:00:22
Local clock offset: -6.85 ms
Remote clock offset: -0.414 ms

# Below is generated by plot.py at 2018-12-20 09:50:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.84 Mbit/s
95th percentile per-packet one-way delay: 1912.835 ms
Loss rate: 6.69%
-- Flow 1:
Average throughput: 62.13 Mbit/s
95th percentile per-packet one-way delay: 1935.594 ms
Loss rate: 9.83%
-- Flow 2:
Average throughput: 35.28 Mbit/s
95th percentile per-packet one-way delay: 12.851 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 28.15 Mbit/s
95th percentile per-packet one-way delay: 14.888 ms
Loss rate: 0.10%
```

Run 4: Report of PCC-Allegro — Data Link

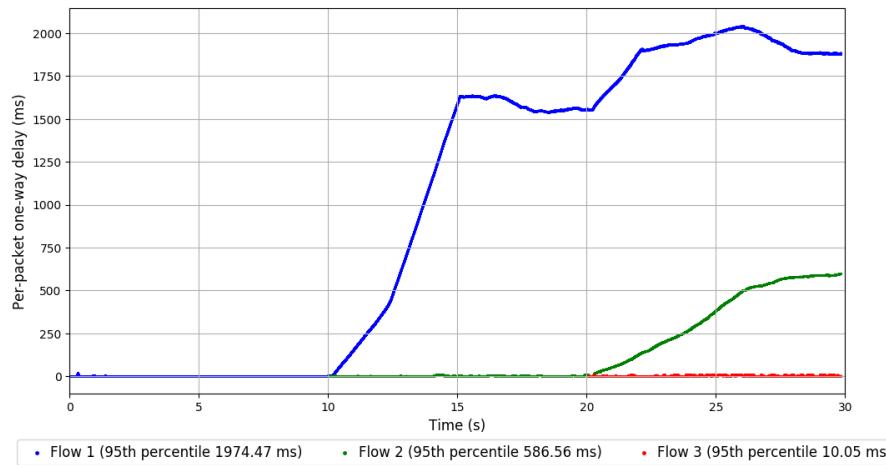
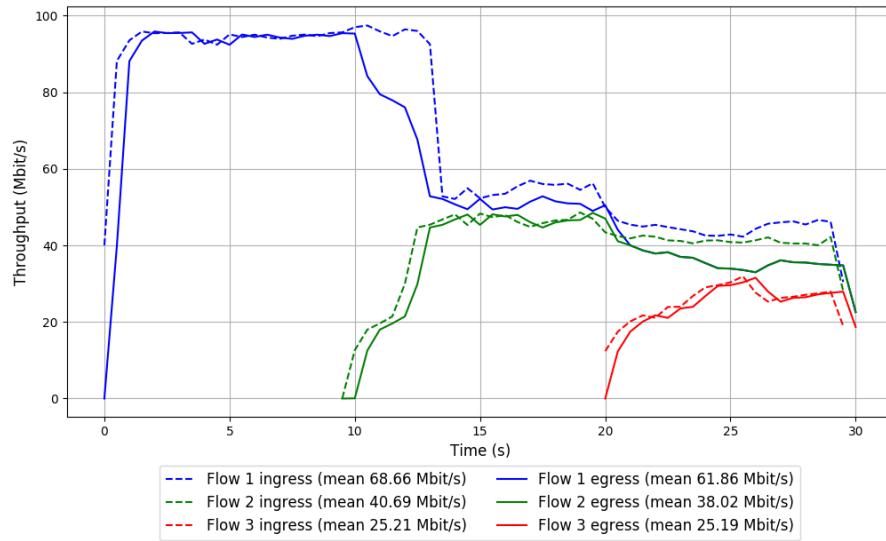


Run 5: Statistics of PCC-Allegro

```
Start at: 2018-12-20 09:21:48
End at: 2018-12-20 09:22:18
Local clock offset: -1.337 ms
Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2018-12-20 09:50:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.46 Mbit/s
95th percentile per-packet one-way delay: 1935.430 ms
Loss rate: 8.26%
-- Flow 1:
Average throughput: 61.86 Mbit/s
95th percentile per-packet one-way delay: 1974.470 ms
Loss rate: 9.91%
-- Flow 2:
Average throughput: 38.02 Mbit/s
95th percentile per-packet one-way delay: 586.563 ms
Loss rate: 6.58%
-- Flow 3:
Average throughput: 25.19 Mbit/s
95th percentile per-packet one-way delay: 10.050 ms
Loss rate: 0.08%
```

Run 5: Report of PCC-Allegro — Data Link

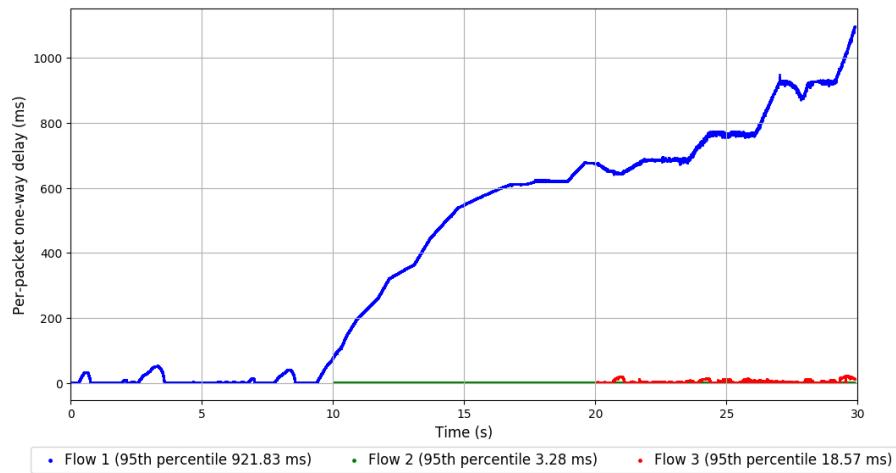
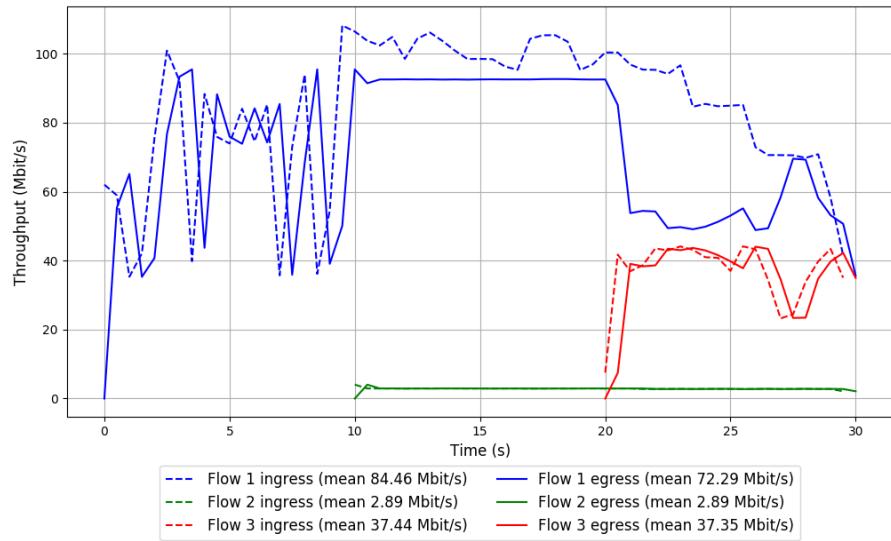


Run 1: Statistics of PCC-Expr

```
Start at: 2018-12-20 07:58:40
End at: 2018-12-20 07:59:10
Local clock offset: -0.022 ms
Remote clock offset: -0.718 ms

# Below is generated by plot.py at 2018-12-20 09:51:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.53 Mbit/s
95th percentile per-packet one-way delay: 913.215 ms
Loss rate: 12.38%
-- Flow 1:
Average throughput: 72.29 Mbit/s
95th percentile per-packet one-way delay: 921.828 ms
Loss rate: 14.42%
-- Flow 2:
Average throughput: 2.89 Mbit/s
95th percentile per-packet one-way delay: 3.282 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 37.35 Mbit/s
95th percentile per-packet one-way delay: 18.571 ms
Loss rate: 0.36%
```

Run 1: Report of PCC-Expr — Data Link

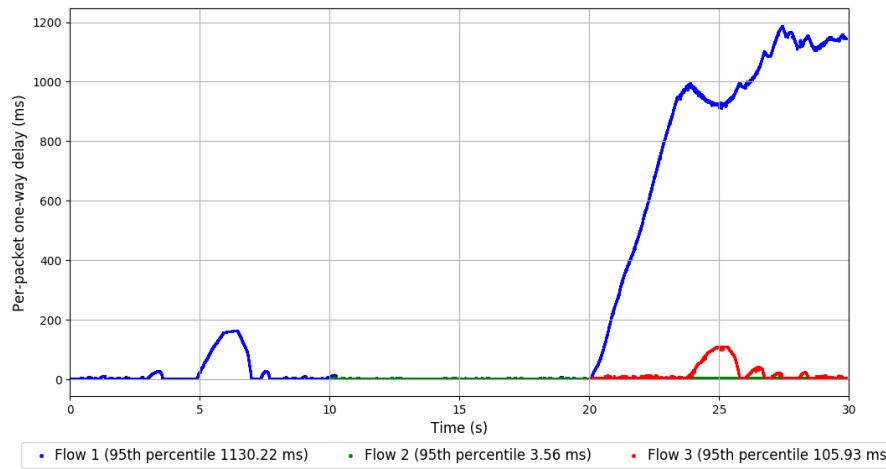
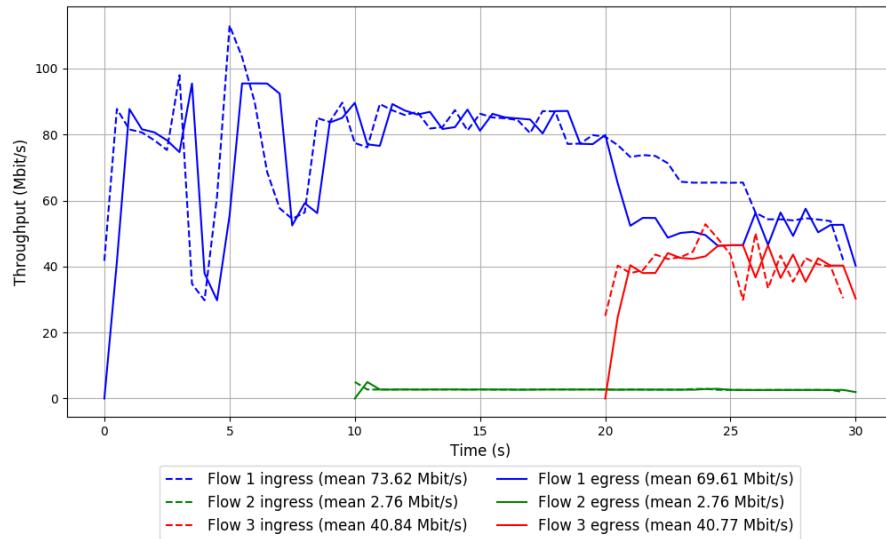


Run 2: Statistics of PCC-Expr

```
Start at: 2018-12-20 08:20:36
End at: 2018-12-20 08:21:06
Local clock offset: -5.74 ms
Remote clock offset: -0.742 ms

# Below is generated by plot.py at 2018-12-20 09:51:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.91 Mbit/s
95th percentile per-packet one-way delay: 1119.003 ms
Loss rate: 4.55%
-- Flow 1:
Average throughput: 69.61 Mbit/s
95th percentile per-packet one-way delay: 1130.218 ms
Loss rate: 5.46%
-- Flow 2:
Average throughput: 2.76 Mbit/s
95th percentile per-packet one-way delay: 3.563 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 40.77 Mbit/s
95th percentile per-packet one-way delay: 105.929 ms
Loss rate: 0.21%
```

Run 2: Report of PCC-Expr — Data Link

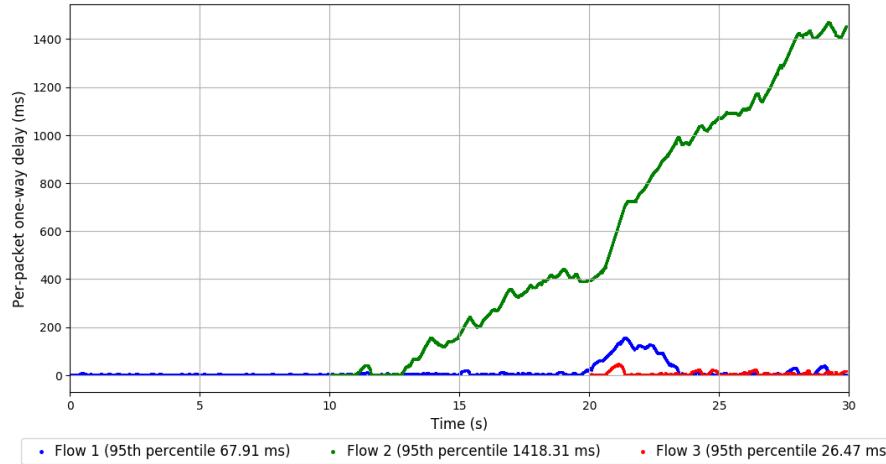
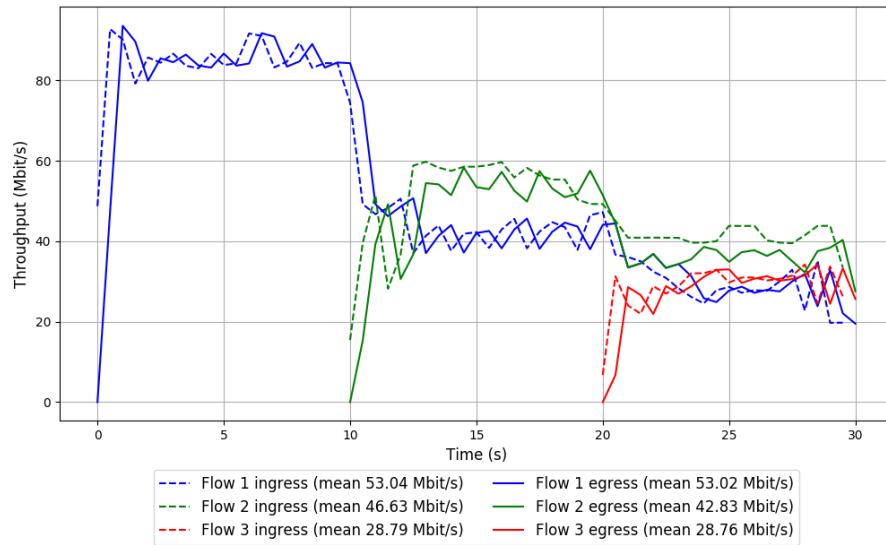


Run 3: Statistics of PCC-Expr

```
Start at: 2018-12-20 08:42:33
End at: 2018-12-20 08:43:03
Local clock offset: -6.835 ms
Remote clock offset: -0.491 ms

# Below is generated by plot.py at 2018-12-20 09:52:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.99 Mbit/s
95th percentile per-packet one-way delay: 1095.322 ms
Loss rate: 2.76%
-- Flow 1:
Average throughput: 53.02 Mbit/s
95th percentile per-packet one-way delay: 67.909 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 42.83 Mbit/s
95th percentile per-packet one-way delay: 1418.309 ms
Loss rate: 8.17%
-- Flow 3:
Average throughput: 28.76 Mbit/s
95th percentile per-packet one-way delay: 26.466 ms
Loss rate: 0.25%
```

Run 3: Report of PCC-Expr — Data Link

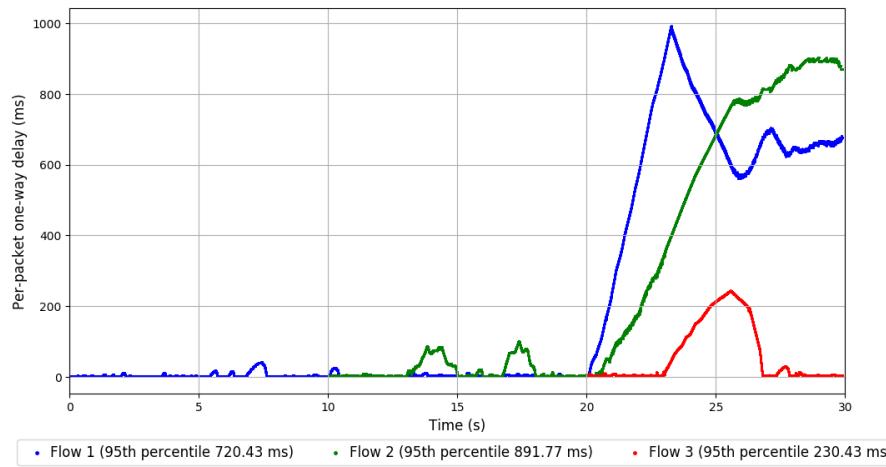
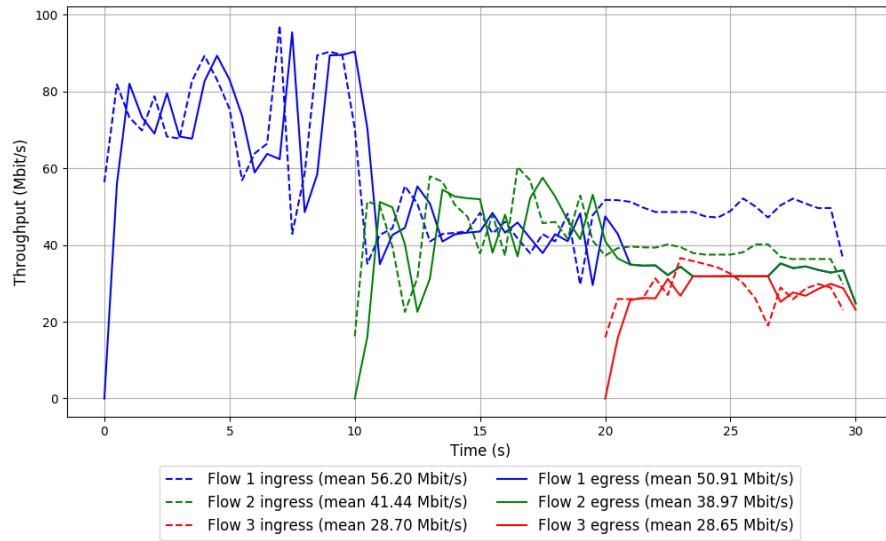


Run 4: Statistics of PCC-Expr

```
Start at: 2018-12-20 09:04:30
End at: 2018-12-20 09:05:00
Local clock offset: -7.004 ms
Remote clock offset: -0.299 ms

# Below is generated by plot.py at 2018-12-20 09:52:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.27 Mbit/s
95th percentile per-packet one-way delay: 819.284 ms
Loss rate: 7.49%
-- Flow 1:
Average throughput: 50.91 Mbit/s
95th percentile per-packet one-way delay: 720.430 ms
Loss rate: 9.43%
-- Flow 2:
Average throughput: 38.97 Mbit/s
95th percentile per-packet one-way delay: 891.771 ms
Loss rate: 5.98%
-- Flow 3:
Average throughput: 28.65 Mbit/s
95th percentile per-packet one-way delay: 230.432 ms
Loss rate: 0.38%
```

Run 4: Report of PCC-Expr — Data Link

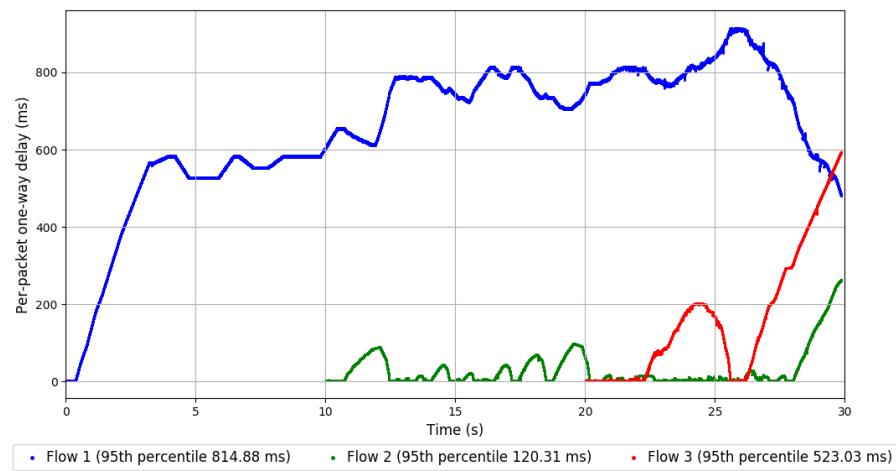
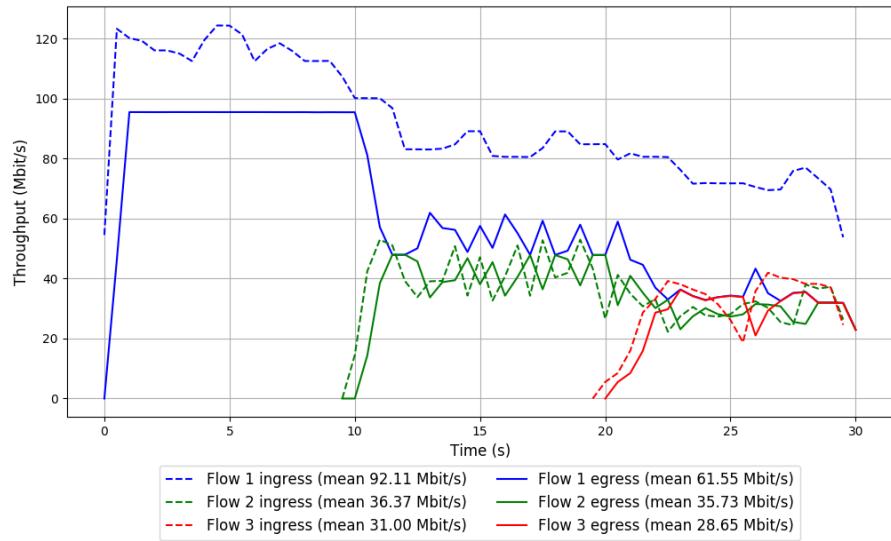


Run 5: Statistics of PCC-Expr

```
Start at: 2018-12-20 09:26:27
End at: 2018-12-20 09:26:57
Local clock offset: -0.645 ms
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2018-12-20 09:52:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.78 Mbit/s
95th percentile per-packet one-way delay: 810.089 ms
Loss rate: 25.13%
-- Flow 1:
Average throughput: 61.55 Mbit/s
95th percentile per-packet one-way delay: 814.879 ms
Loss rate: 33.19%
-- Flow 2:
Average throughput: 35.73 Mbit/s
95th percentile per-packet one-way delay: 120.314 ms
Loss rate: 1.84%
-- Flow 3:
Average throughput: 28.65 Mbit/s
95th percentile per-packet one-way delay: 523.030 ms
Loss rate: 7.71%
```

Run 5: Report of PCC-Expr — Data Link

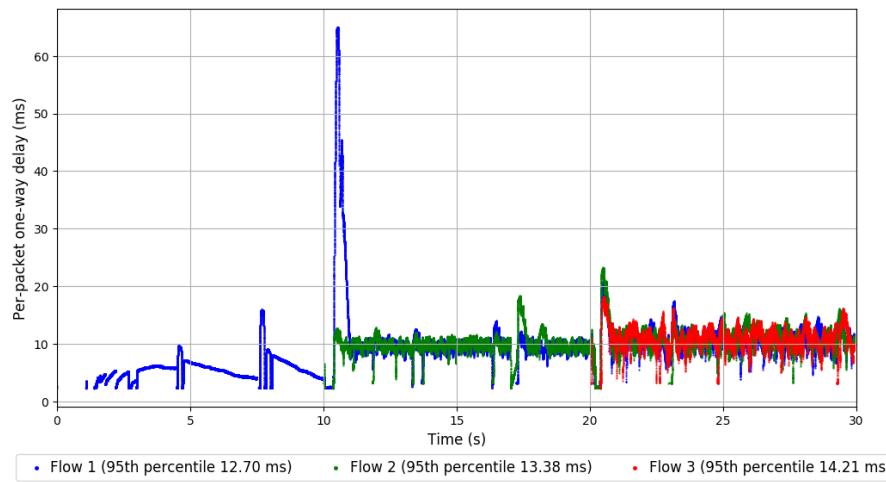
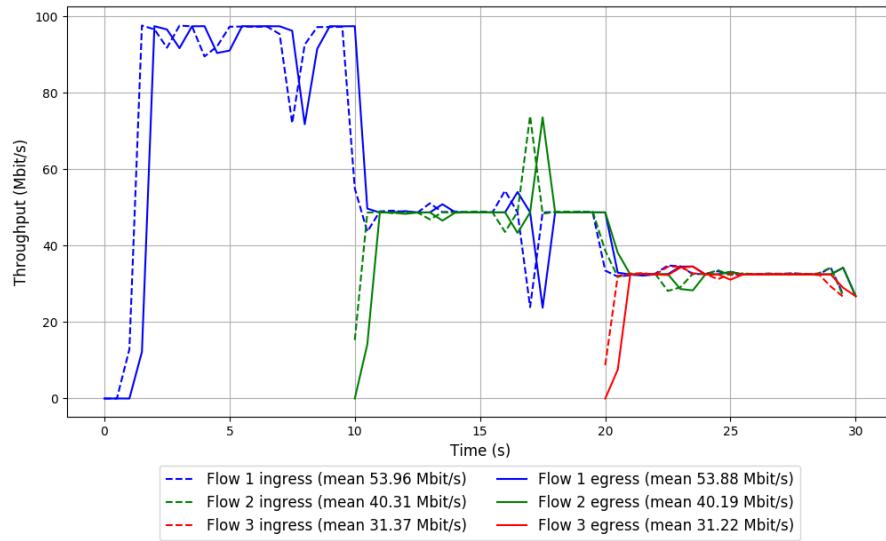


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-12-20 07:52:53
End at: 2018-12-20 07:53:23
Local clock offset: -0.686 ms
Remote clock offset: -0.839 ms

# Below is generated by plot.py at 2018-12-20 09:52:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.95 Mbit/s
95th percentile per-packet one-way delay: 13.373 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 53.88 Mbit/s
95th percentile per-packet one-way delay: 12.696 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 40.19 Mbit/s
95th percentile per-packet one-way delay: 13.378 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 31.22 Mbit/s
95th percentile per-packet one-way delay: 14.207 ms
Loss rate: 0.51%
```

Run 1: Report of QUIC Cubic — Data Link

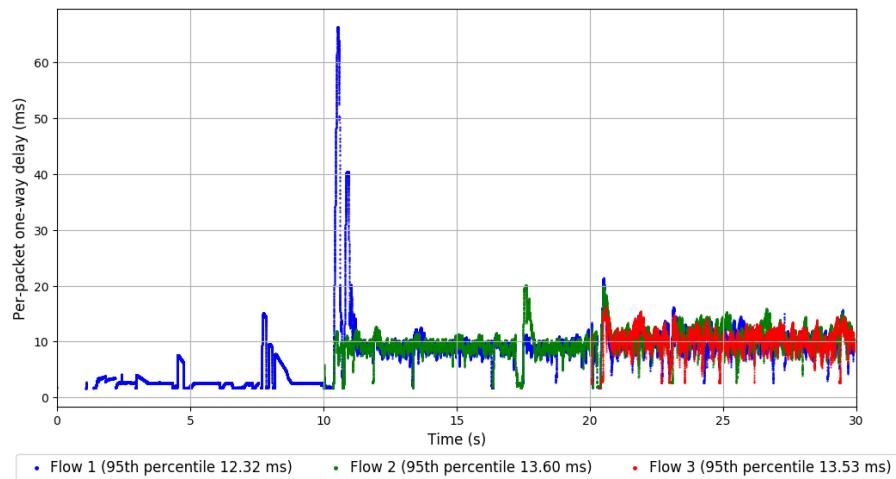
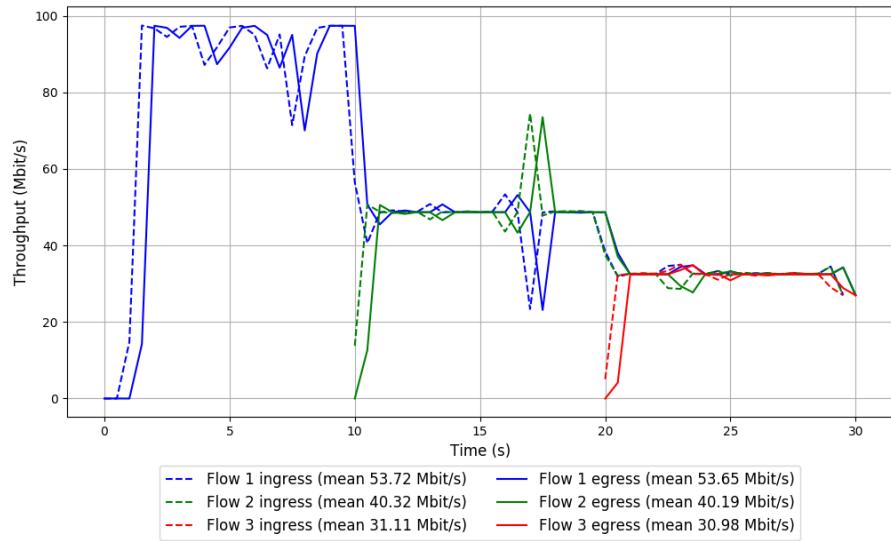


Run 2: Statistics of QUIC Cubic

```
Start at: 2018-12-20 08:14:48
End at: 2018-12-20 08:15:18
Local clock offset: -5.184 ms
Remote clock offset: -0.702 ms

# Below is generated by plot.py at 2018-12-20 09:52:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.64 Mbit/s
95th percentile per-packet one-way delay: 13.158 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 53.65 Mbit/s
95th percentile per-packet one-way delay: 12.325 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 40.19 Mbit/s
95th percentile per-packet one-way delay: 13.604 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 30.98 Mbit/s
95th percentile per-packet one-way delay: 13.529 ms
Loss rate: 0.46%
```

Run 2: Report of QUIC Cubic — Data Link

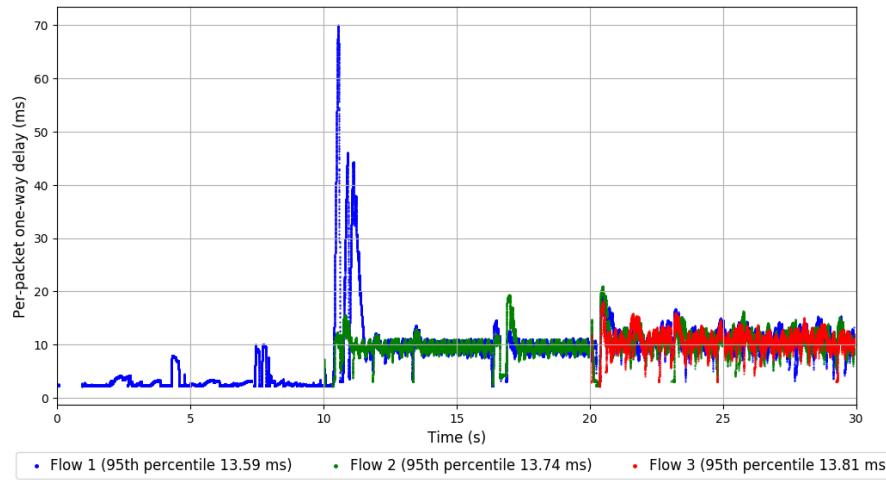
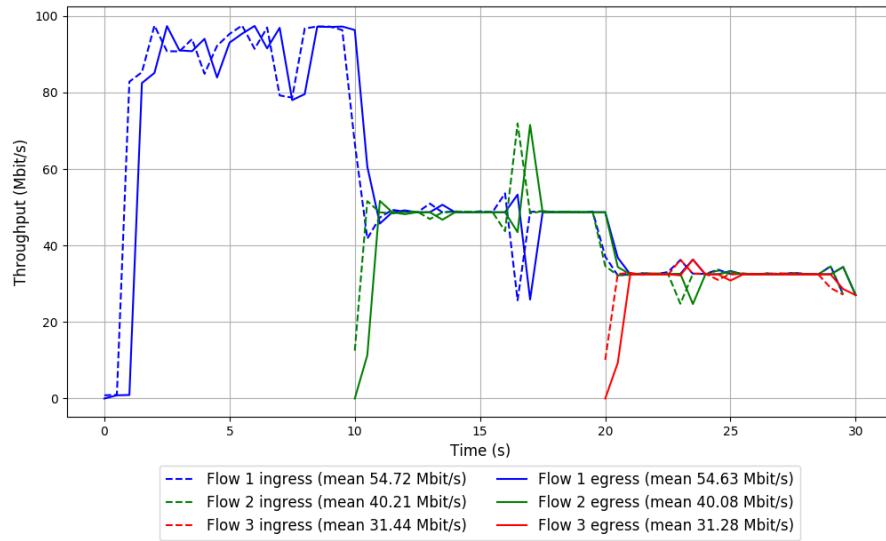


Run 3: Statistics of QUIC Cubic

```
Start at: 2018-12-20 08:36:45
End at: 2018-12-20 08:37:15
Local clock offset: -7.185 ms
Remote clock offset: -0.576 ms

# Below is generated by plot.py at 2018-12-20 09:52:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.63 Mbit/s
95th percentile per-packet one-way delay: 13.683 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 54.63 Mbit/s
95th percentile per-packet one-way delay: 13.586 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 40.08 Mbit/s
95th percentile per-packet one-way delay: 13.739 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 31.28 Mbit/s
95th percentile per-packet one-way delay: 13.814 ms
Loss rate: 0.54%
```

Run 3: Report of QUIC Cubic — Data Link

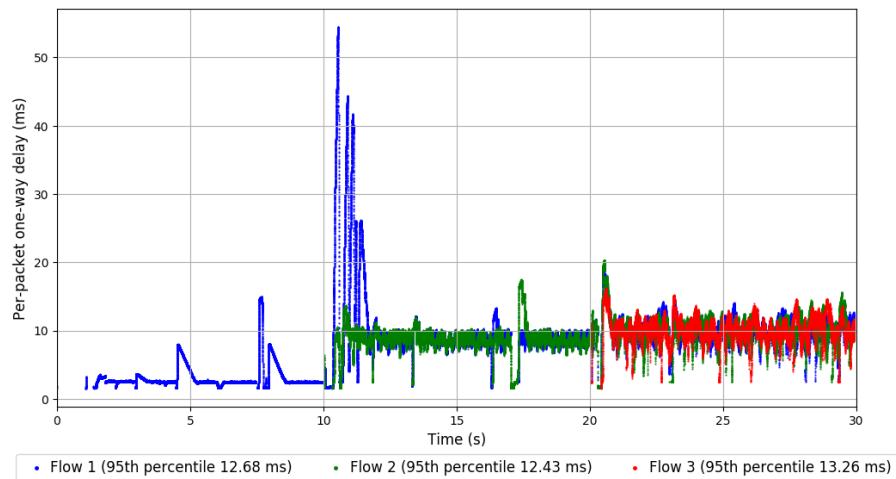
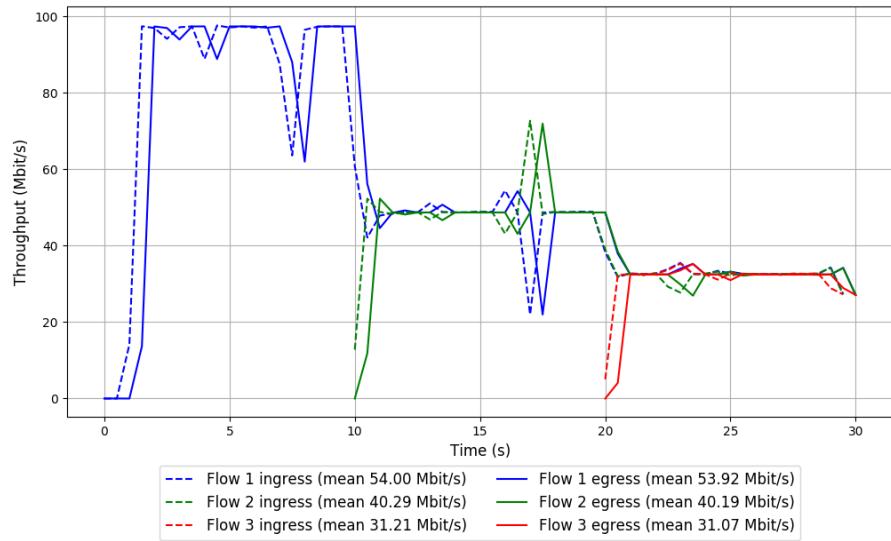


Run 4: Statistics of QUIC Cubic

```
Start at: 2018-12-20 08:58:43
End at: 2018-12-20 08:59:13
Local clock offset: -7.595 ms
Remote clock offset: -0.353 ms

# Below is generated by plot.py at 2018-12-20 09:52:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.93 Mbit/s
95th percentile per-packet one-way delay: 12.744 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 53.92 Mbit/s
95th percentile per-packet one-way delay: 12.679 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 40.19 Mbit/s
95th percentile per-packet one-way delay: 12.426 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 31.07 Mbit/s
95th percentile per-packet one-way delay: 13.259 ms
Loss rate: 0.47%
```

Run 4: Report of QUIC Cubic — Data Link

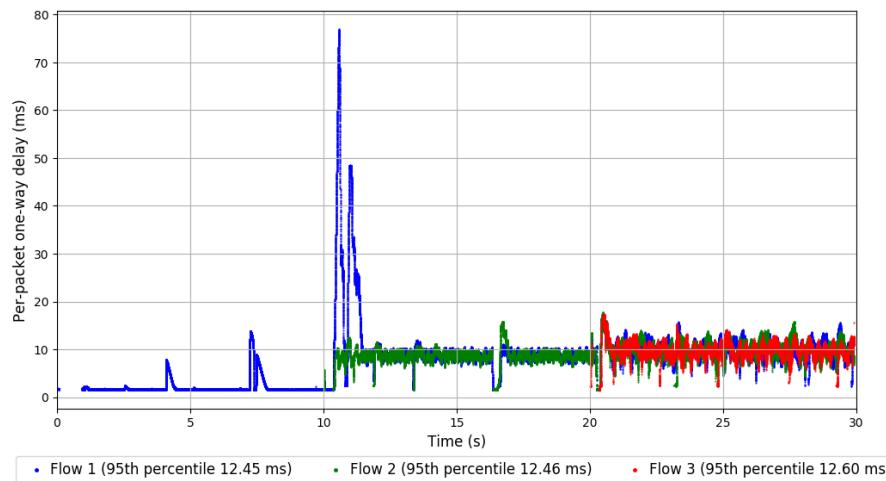
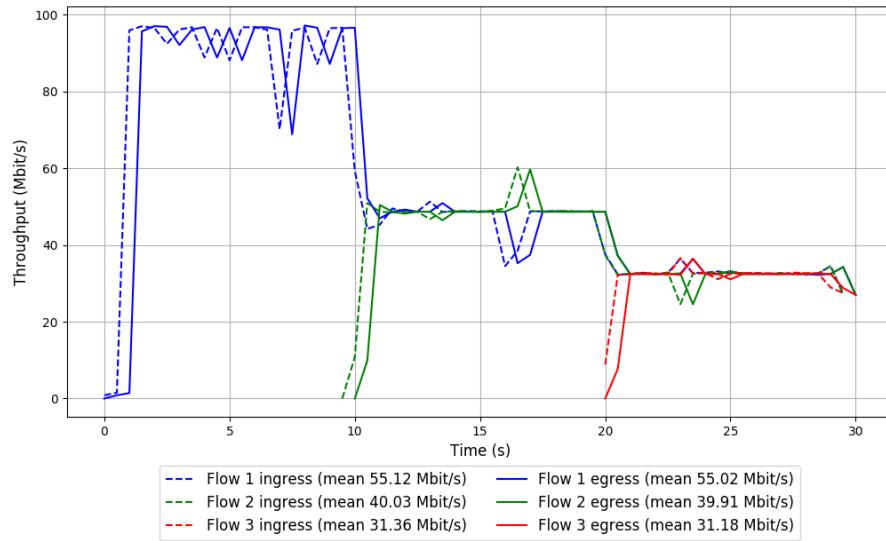


Run 5: Statistics of QUIC Cubic

```
Start at: 2018-12-20 09:20:39
End at: 2018-12-20 09:21:09
Local clock offset: -1.517 ms
Remote clock offset: -0.177 ms

# Below is generated by plot.py at 2018-12-20 09:52:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.91 Mbit/s
95th percentile per-packet one-way delay: 12.486 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 55.02 Mbit/s
95th percentile per-packet one-way delay: 12.446 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 39.91 Mbit/s
95th percentile per-packet one-way delay: 12.457 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 31.18 Mbit/s
95th percentile per-packet one-way delay: 12.601 ms
Loss rate: 0.56%
```

Run 5: Report of QUIC Cubic — Data Link

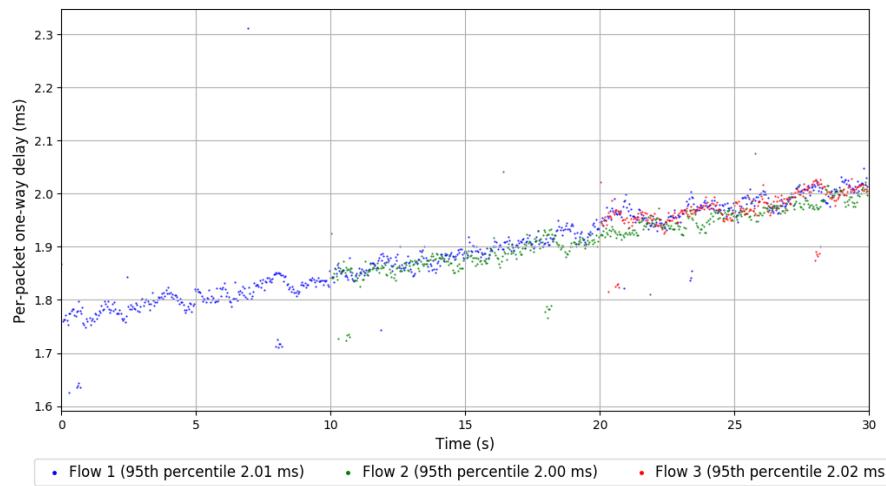
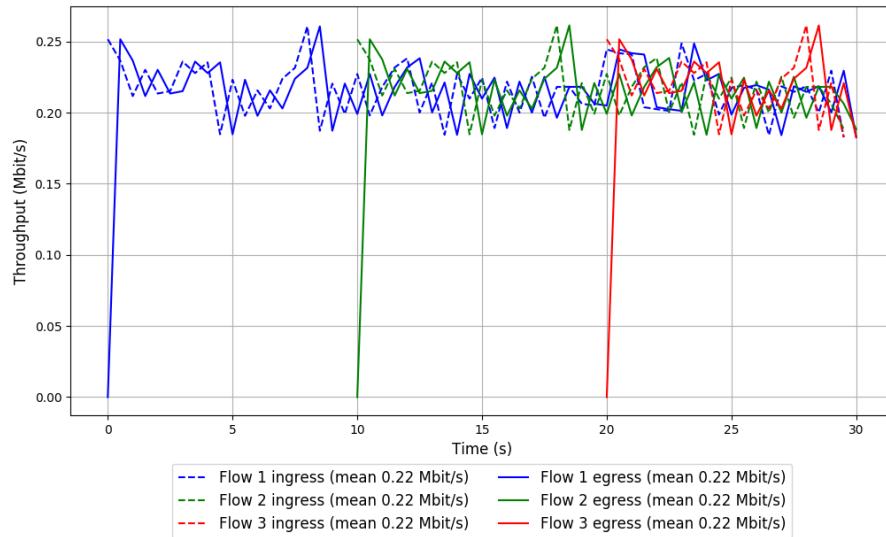


Run 1: Statistics of SCReAM

```
Start at: 2018-12-20 08:09:07
End at: 2018-12-20 08:09:37
Local clock offset: -2.864 ms
Remote clock offset: -0.69 ms

# Below is generated by plot.py at 2018-12-20 09:52:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 2.008 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.009 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.997 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.016 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

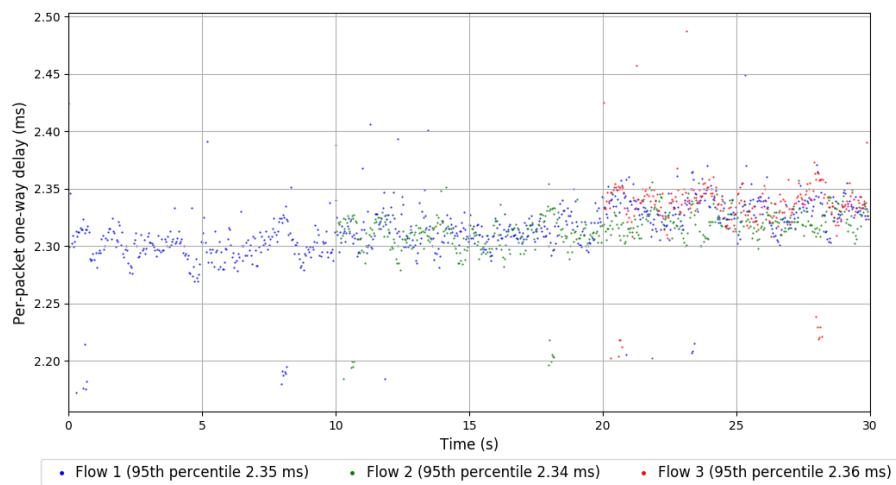
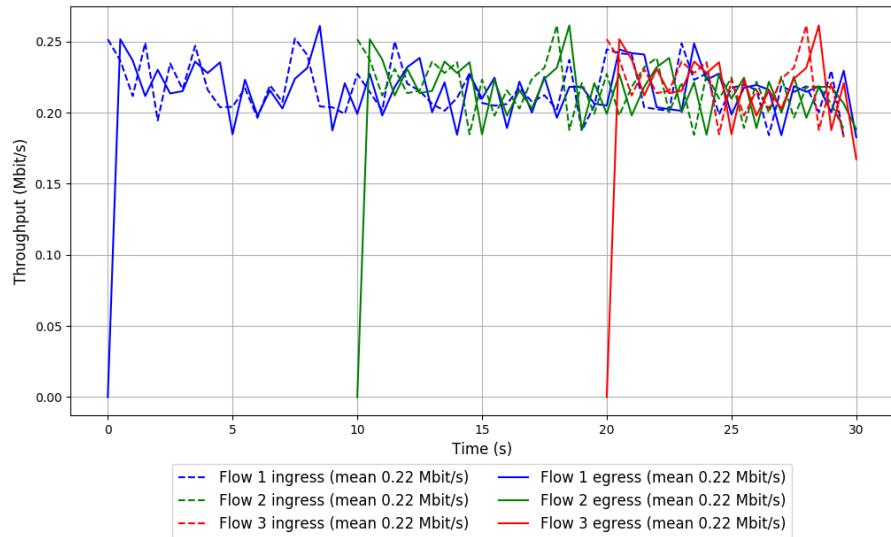


Run 2: Statistics of SCReAM

```
Start at: 2018-12-20 08:31:03
End at: 2018-12-20 08:31:33
Local clock offset: -7.025 ms
Remote clock offset: -0.548 ms

# Below is generated by plot.py at 2018-12-20 09:52:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 2.350 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.347 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.339 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.358 ms
Loss rate: 0.35%
```

Run 2: Report of SCReAM — Data Link

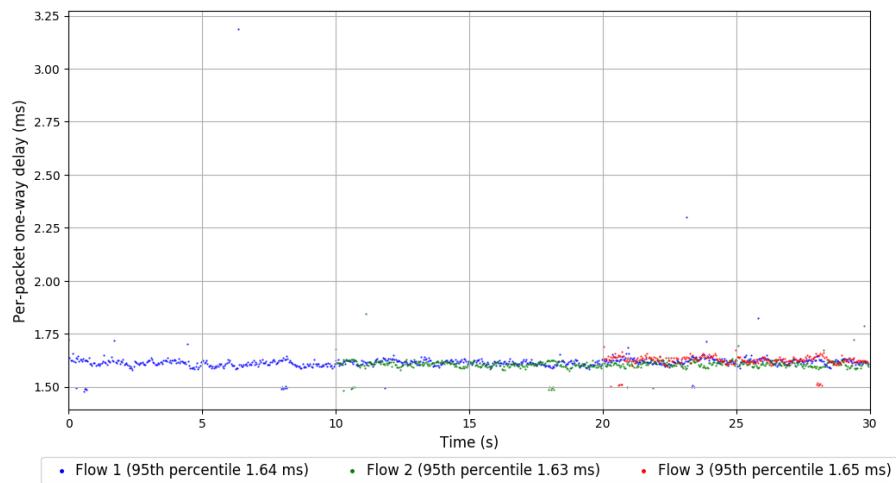
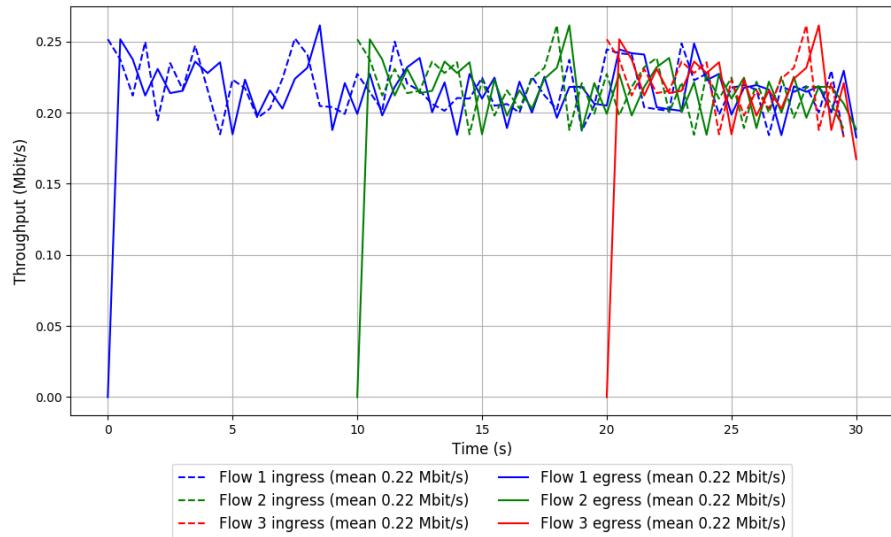


Run 3: Statistics of SCReAM

```
Start at: 2018-12-20 08:53:01
End at: 2018-12-20 08:53:31
Local clock offset: -7.536 ms
Remote clock offset: -0.365 ms

# Below is generated by plot.py at 2018-12-20 09:52:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 1.641 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.638 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.626 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.650 ms
Loss rate: 0.35%
```

Run 3: Report of SCReAM — Data Link

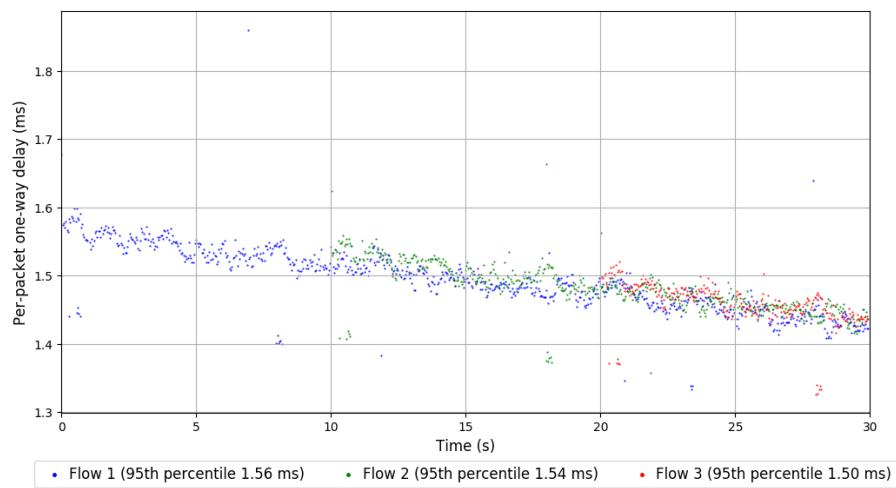
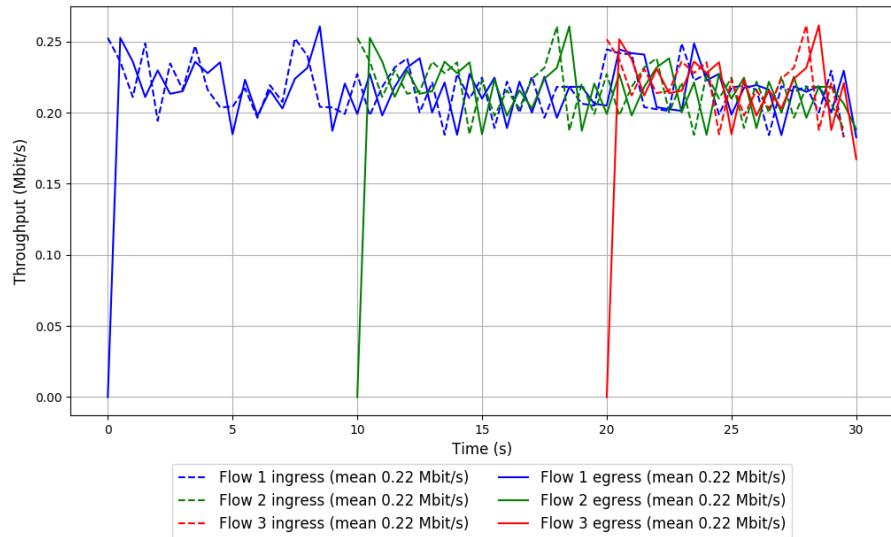


Run 4: Statistics of SCReAM

```
Start at: 2018-12-20 09:14:57
End at: 2018-12-20 09:15:27
Local clock offset: -2.87 ms
Remote clock offset: -0.249 ms

# Below is generated by plot.py at 2018-12-20 09:52:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.553 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.564 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.536 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.501 ms
Loss rate: 0.35%
```

Run 4: Report of SCReAM — Data Link

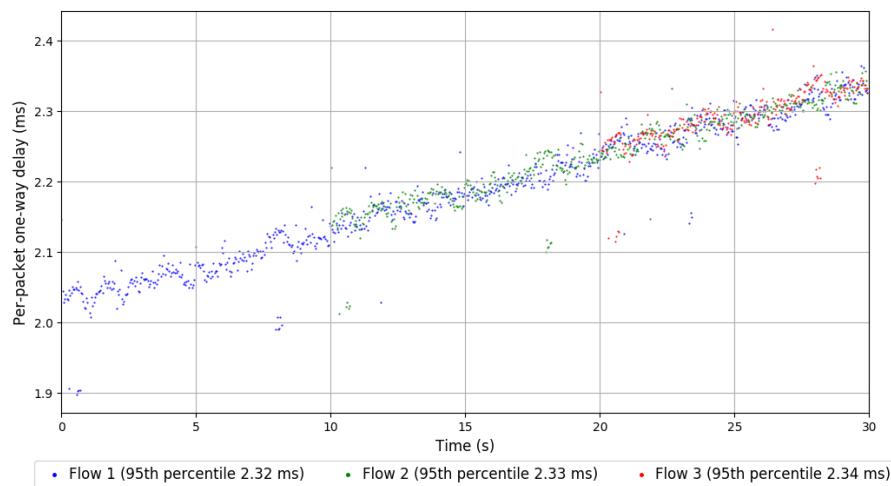
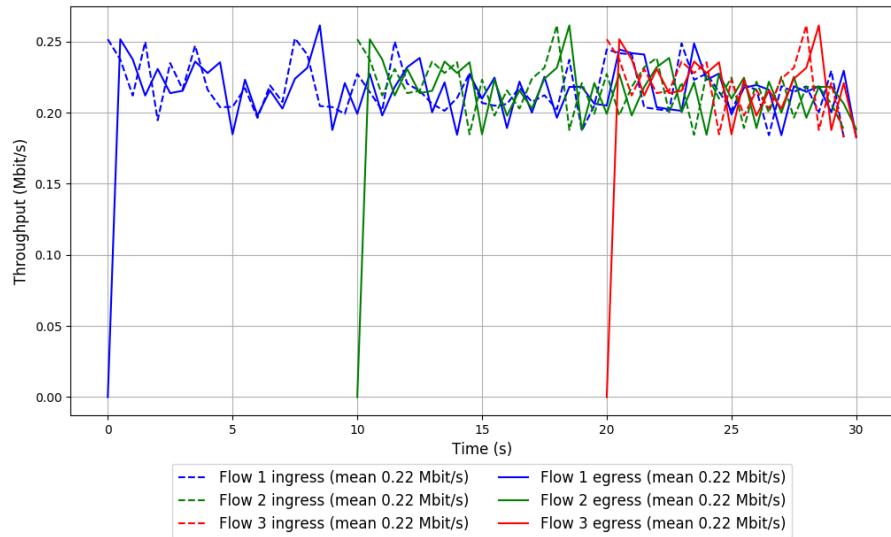


Run 5: Statistics of SCReAM

```
Start at: 2018-12-20 09:36:55
End at: 2018-12-20 09:37:25
Local clock offset: -0.783 ms
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2018-12-20 09:52:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 2.333 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.320 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.332 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.343 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

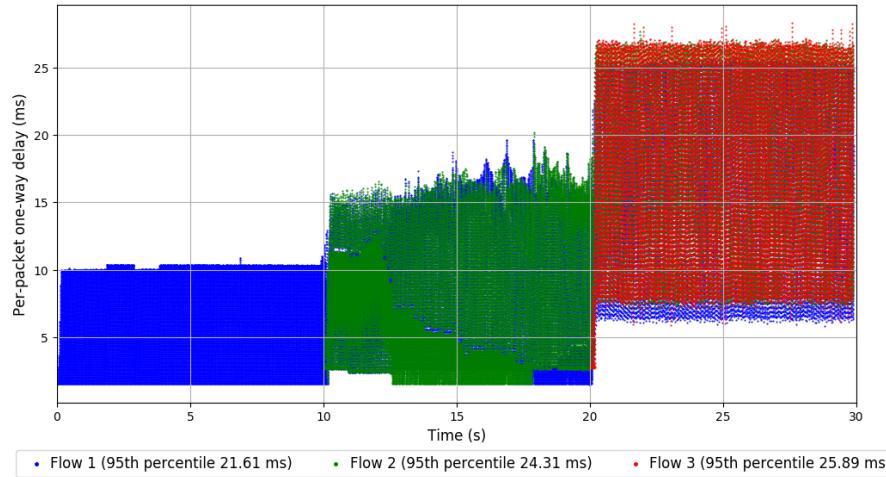
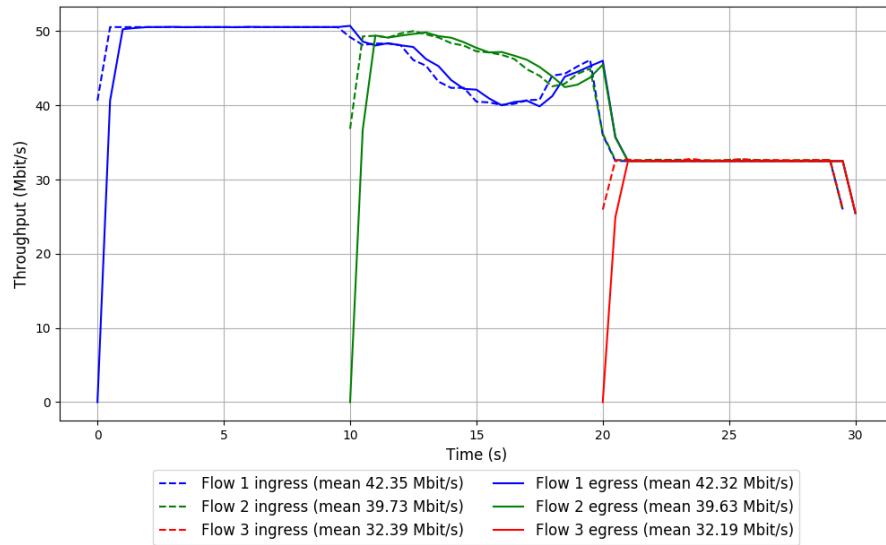


Run 1: Statistics of Sprout

```
Start at: 2018-12-20 08:03:23
End at: 2018-12-20 08:03:53
Local clock offset: -0.434 ms
Remote clock offset: -0.765 ms

# Below is generated by plot.py at 2018-12-20 09:52:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.30 Mbit/s
95th percentile per-packet one-way delay: 23.928 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 42.32 Mbit/s
95th percentile per-packet one-way delay: 21.615 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 39.63 Mbit/s
95th percentile per-packet one-way delay: 24.313 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 32.19 Mbit/s
95th percentile per-packet one-way delay: 25.885 ms
Loss rate: 0.61%
```

Run 1: Report of Sprout — Data Link

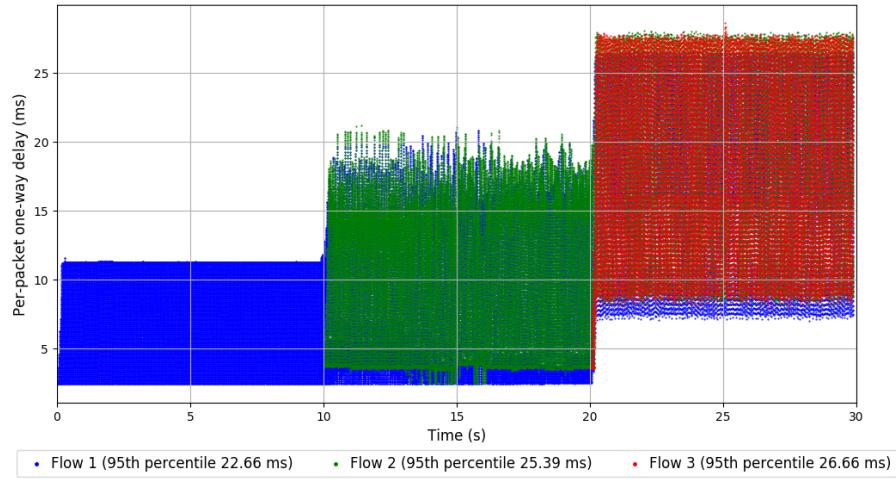
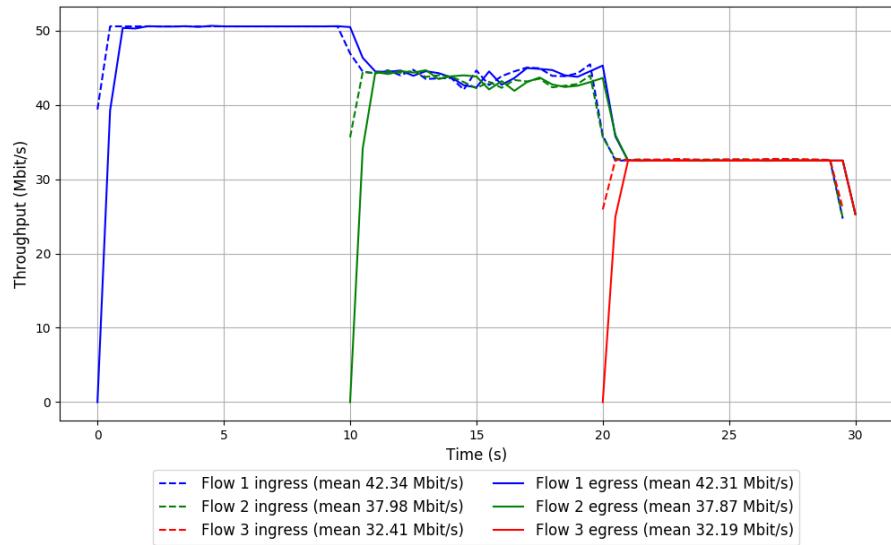


Run 2: Statistics of Sprout

```
Start at: 2018-12-20 08:25:18
End at: 2018-12-20 08:25:48
Local clock offset: -6.399 ms
Remote clock offset: -0.621 ms

# Below is generated by plot.py at 2018-12-20 09:52:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.12 Mbit/s
95th percentile per-packet one-way delay: 24.905 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 42.31 Mbit/s
95th percentile per-packet one-way delay: 22.656 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 37.87 Mbit/s
95th percentile per-packet one-way delay: 25.394 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 32.19 Mbit/s
95th percentile per-packet one-way delay: 26.663 ms
Loss rate: 0.68%
```

Run 2: Report of Sprout — Data Link

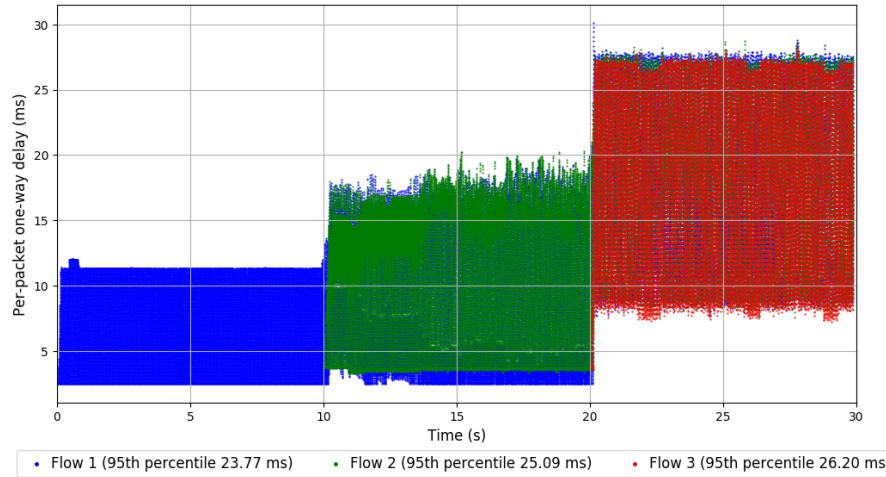
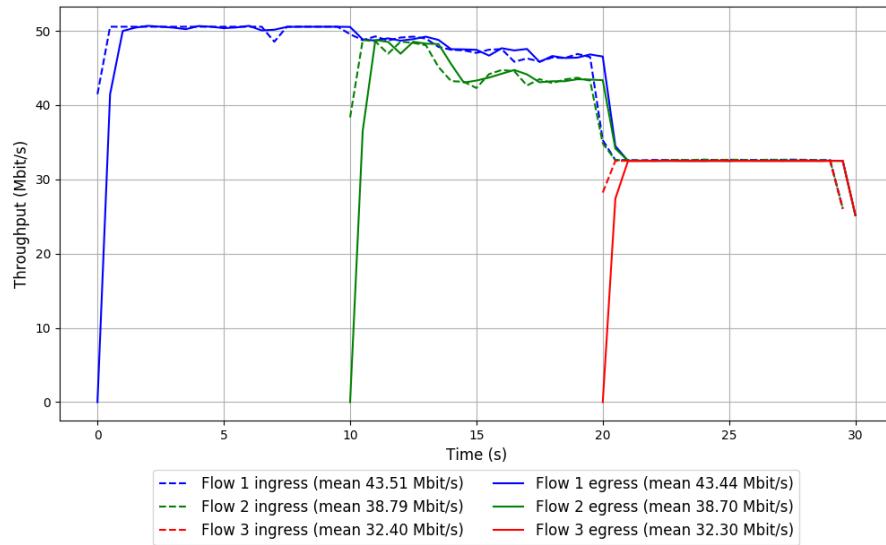


Run 3: Statistics of Sprout

```
Start at: 2018-12-20 08:47:15
End at: 2018-12-20 08:47:45
Local clock offset: -6.758 ms
Remote clock offset: -0.484 ms

# Below is generated by plot.py at 2018-12-20 09:52:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.84 Mbit/s
95th percentile per-packet one-way delay: 25.017 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 43.44 Mbit/s
95th percentile per-packet one-way delay: 23.773 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 38.70 Mbit/s
95th percentile per-packet one-way delay: 25.087 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 32.30 Mbit/s
95th percentile per-packet one-way delay: 26.202 ms
Loss rate: 0.30%
```

Run 3: Report of Sprout — Data Link

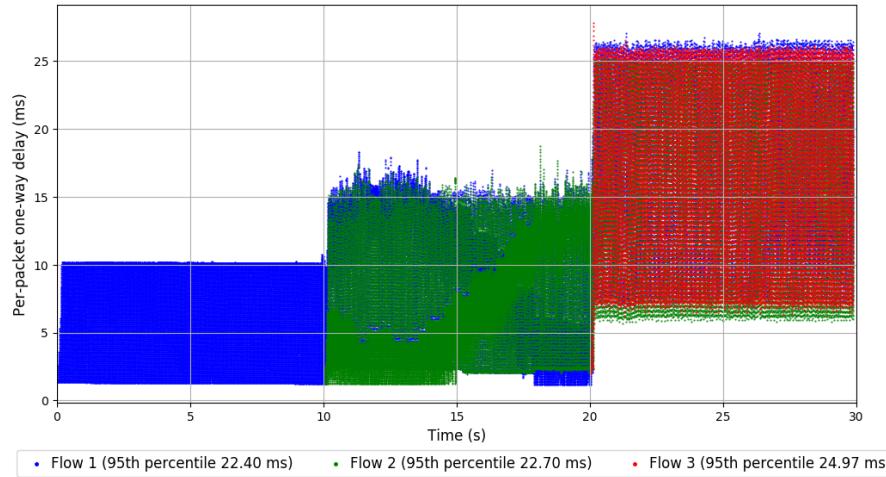
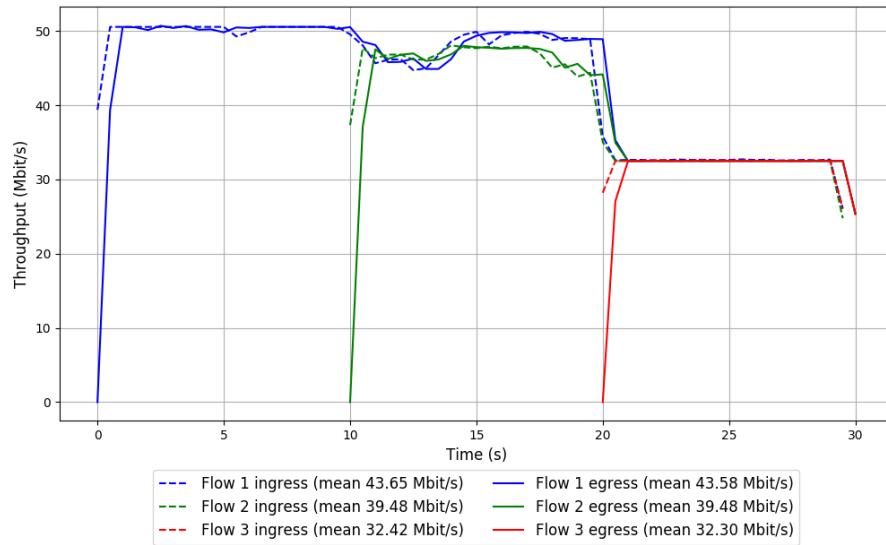


Run 4: Statistics of Sprout

```
Start at: 2018-12-20 09:09:12
End at: 2018-12-20 09:09:42
Local clock offset: -5.343 ms
Remote clock offset: -0.277 ms

# Below is generated by plot.py at 2018-12-20 09:53:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.49 Mbit/s
95th percentile per-packet one-way delay: 23.364 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 43.58 Mbit/s
95th percentile per-packet one-way delay: 22.396 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 39.48 Mbit/s
95th percentile per-packet one-way delay: 22.697 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 32.30 Mbit/s
95th percentile per-packet one-way delay: 24.973 ms
Loss rate: 0.40%
```

Run 4: Report of Sprout — Data Link

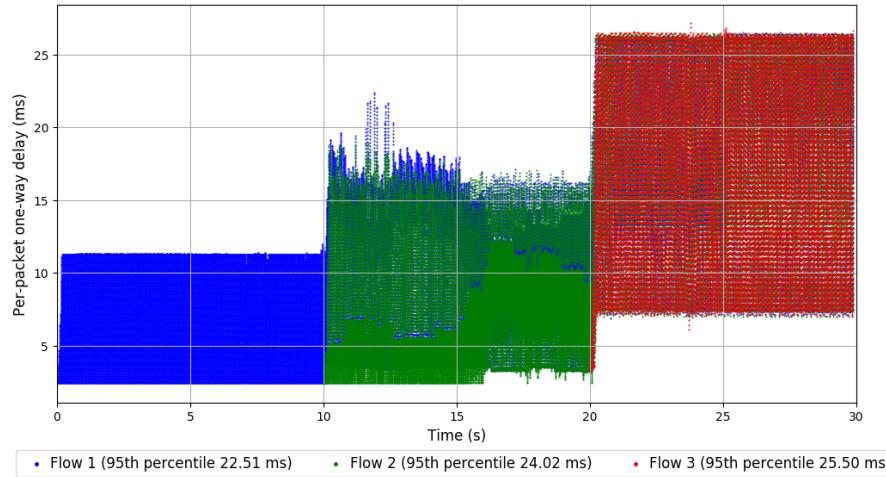
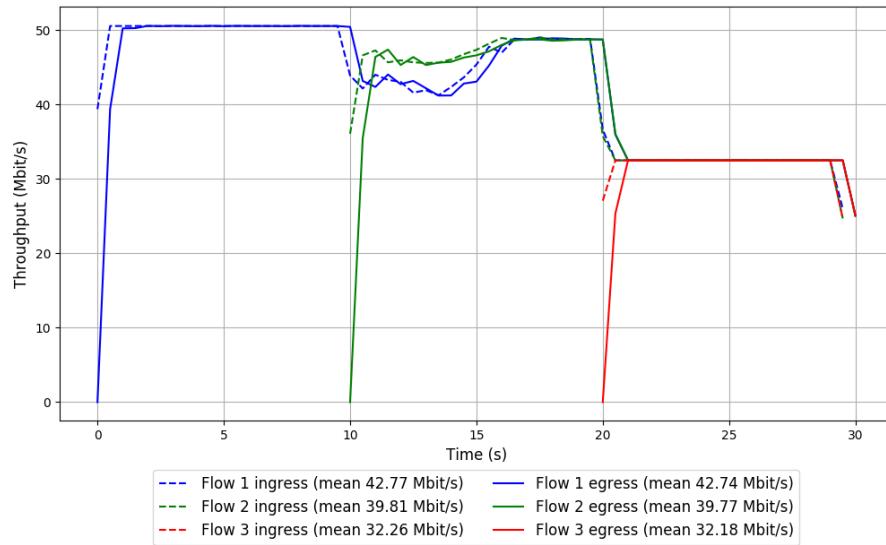


Run 5: Statistics of Sprout

```
Start at: 2018-12-20 09:31:10
End at: 2018-12-20 09:31:40
Local clock offset: 0.654 ms
Remote clock offset: -0.127 ms

# Below is generated by plot.py at 2018-12-20 09:53:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.83 Mbit/s
95th percentile per-packet one-way delay: 24.011 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 42.74 Mbit/s
95th percentile per-packet one-way delay: 22.507 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 39.77 Mbit/s
95th percentile per-packet one-way delay: 24.024 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 32.18 Mbit/s
95th percentile per-packet one-way delay: 25.497 ms
Loss rate: 0.21%
```

Run 5: Report of Sprout — Data Link

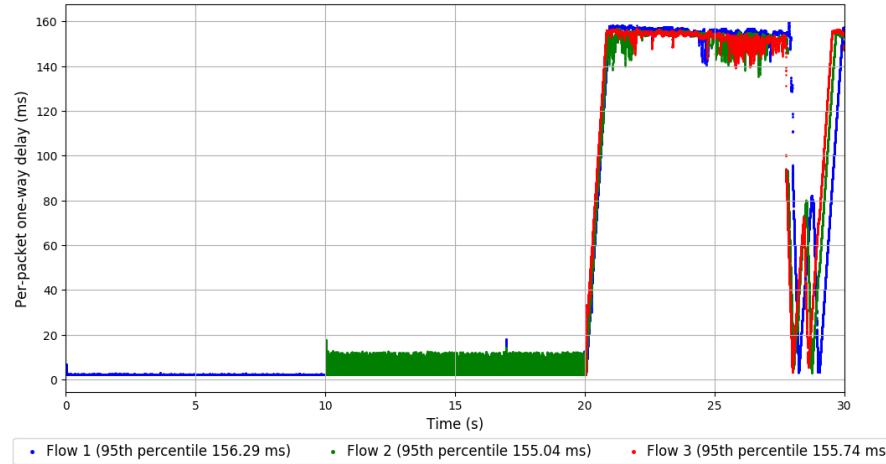
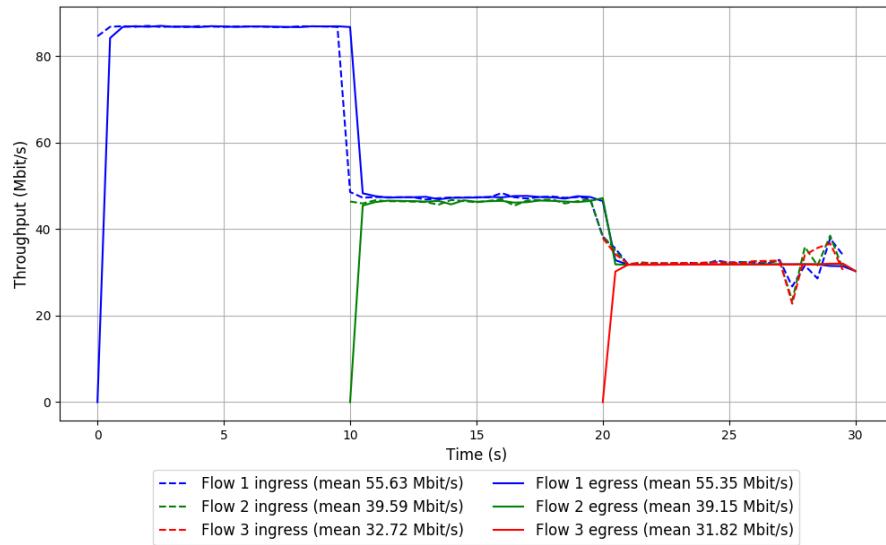


Run 1: Statistics of TaoVA-100x

```
Start at: 2018-12-20 07:57:28
End at: 2018-12-20 07:57:58
Local clock offset: -0.167 ms
Remote clock offset: -0.839 ms

# Below is generated by plot.py at 2018-12-20 09:54:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.99 Mbit/s
95th percentile per-packet one-way delay: 155.702 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 55.35 Mbit/s
95th percentile per-packet one-way delay: 156.289 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 39.15 Mbit/s
95th percentile per-packet one-way delay: 155.044 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 31.82 Mbit/s
95th percentile per-packet one-way delay: 155.736 ms
Loss rate: 2.73%
```

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

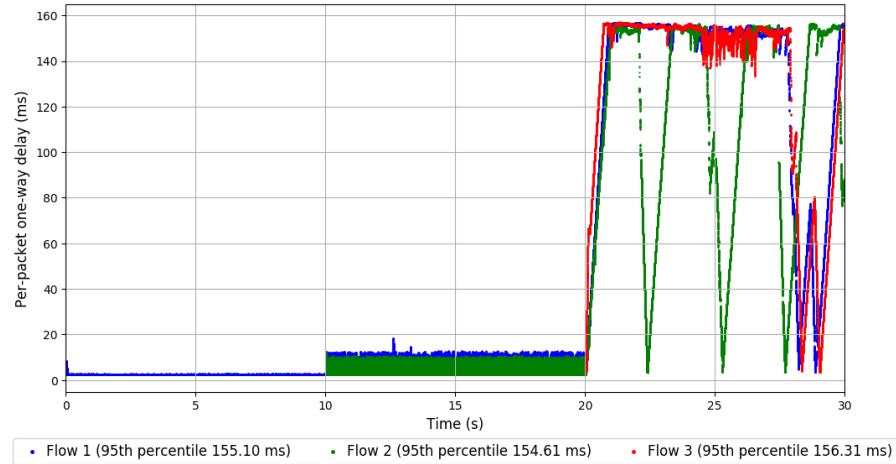
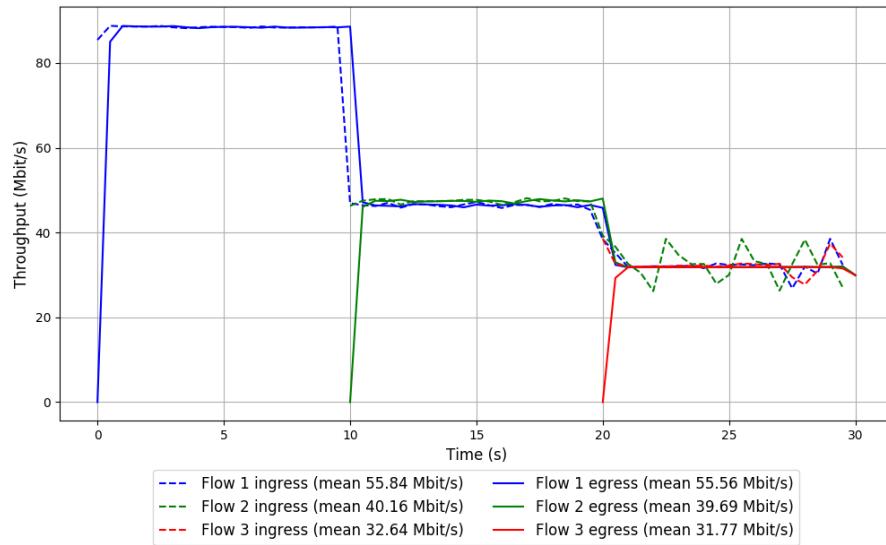


Run 2: Statistics of TaoVA-100x

```
Start at: 2018-12-20 08:19:23
End at: 2018-12-20 08:19:53
Local clock offset: -5.544 ms
Remote clock offset: -0.761 ms

# Below is generated by plot.py at 2018-12-20 09:54:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.53 Mbit/s
95th percentile per-packet one-way delay: 155.443 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 55.56 Mbit/s
95th percentile per-packet one-way delay: 155.100 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 39.69 Mbit/s
95th percentile per-packet one-way delay: 154.612 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 31.77 Mbit/s
95th percentile per-packet one-way delay: 156.312 ms
Loss rate: 2.71%
```

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

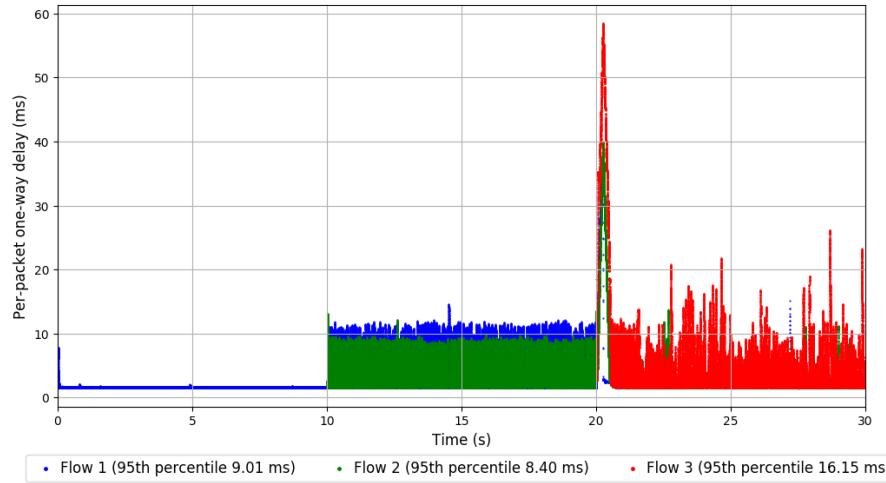
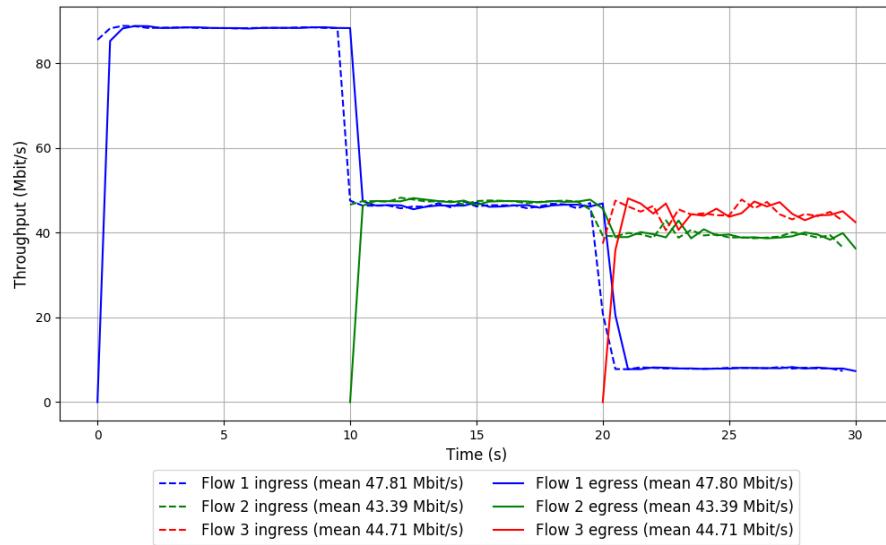


Run 3: Statistics of TaoVA-100x

```
Start at: 2018-12-20 08:41:21
End at: 2018-12-20 08:41:51
Local clock offset: -7.617 ms
Remote clock offset: -0.447 ms

# Below is generated by plot.py at 2018-12-20 09:54:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.53 Mbit/s
95th percentile per-packet one-way delay: 9.331 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 47.80 Mbit/s
95th percentile per-packet one-way delay: 9.009 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 43.39 Mbit/s
95th percentile per-packet one-way delay: 8.397 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 44.71 Mbit/s
95th percentile per-packet one-way delay: 16.148 ms
Loss rate: 0.07%
```

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

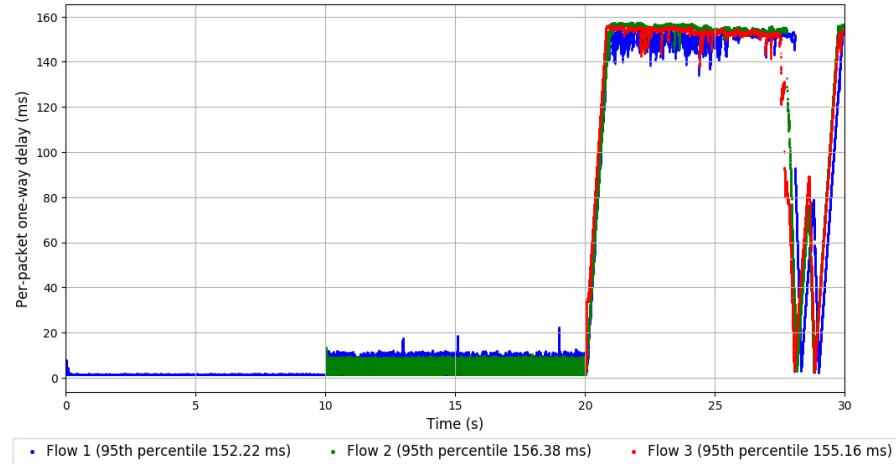
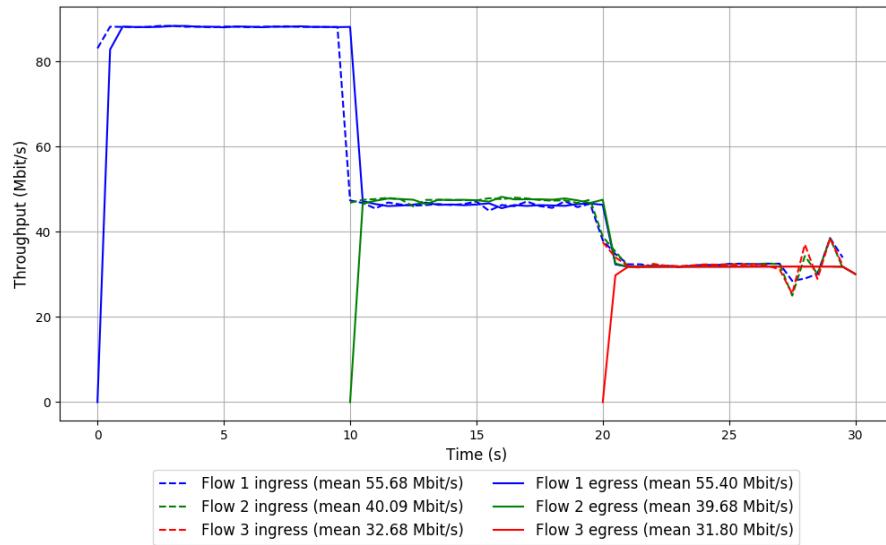


Run 4: Statistics of TaoVA-100x

```
Start at: 2018-12-20 09:03:18
End at: 2018-12-20 09:03:48
Local clock offset: -7.737 ms
Remote clock offset: -0.263 ms

# Below is generated by plot.py at 2018-12-20 09:54:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.39 Mbit/s
95th percentile per-packet one-way delay: 154.988 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 55.40 Mbit/s
95th percentile per-packet one-way delay: 152.225 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 39.68 Mbit/s
95th percentile per-packet one-way delay: 156.384 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 31.80 Mbit/s
95th percentile per-packet one-way delay: 155.157 ms
Loss rate: 2.75%
```

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

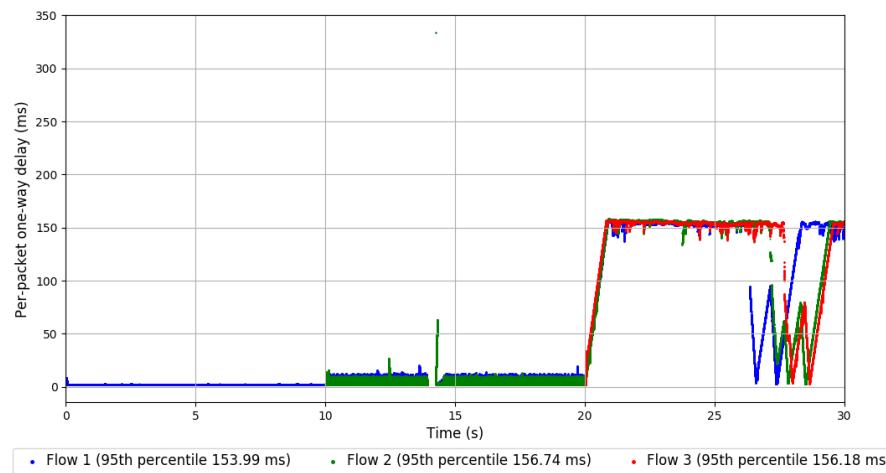
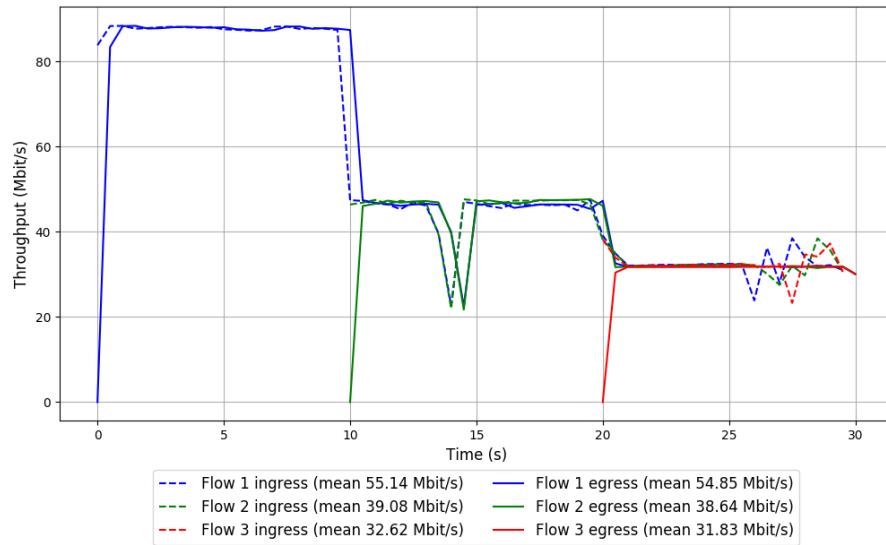


Run 5: Statistics of TaoVA-100x

```
Start at: 2018-12-20 09:25:15
End at: 2018-12-20 09:25:45
Local clock offset: -0.042 ms
Remote clock offset: -0.164 ms

# Below is generated by plot.py at 2018-12-20 09:54:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.16 Mbit/s
95th percentile per-packet one-way delay: 155.677 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 54.85 Mbit/s
95th percentile per-packet one-way delay: 153.988 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 38.64 Mbit/s
95th percentile per-packet one-way delay: 156.740 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 31.83 Mbit/s
95th percentile per-packet one-way delay: 156.178 ms
Loss rate: 2.51%
```

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

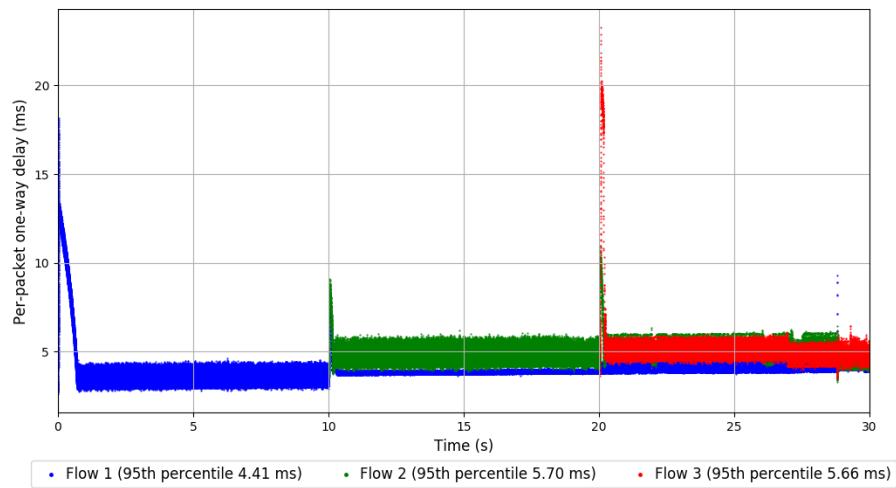
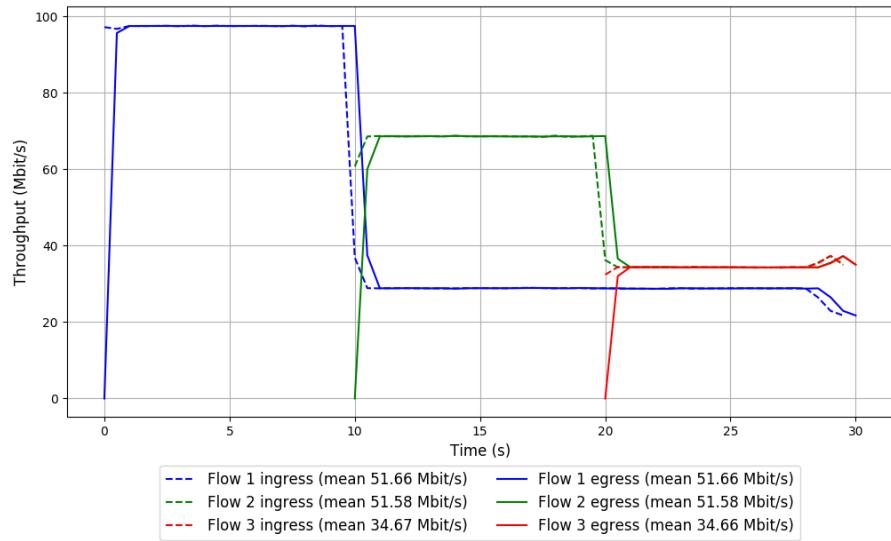


Run 1: Statistics of TCP Vegas

```
Start at: 2018-12-20 08:07:57
End at: 2018-12-20 08:08:27
Local clock offset: -1.326 ms
Remote clock offset: -0.781 ms

# Below is generated by plot.py at 2018-12-20 09:54:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.50 Mbit/s
95th percentile per-packet one-way delay: 5.645 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 51.66 Mbit/s
95th percentile per-packet one-way delay: 4.411 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 51.58 Mbit/s
95th percentile per-packet one-way delay: 5.703 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 34.66 Mbit/s
95th percentile per-packet one-way delay: 5.661 ms
Loss rate: 0.07%
```

Run 1: Report of TCP Vegas — Data Link

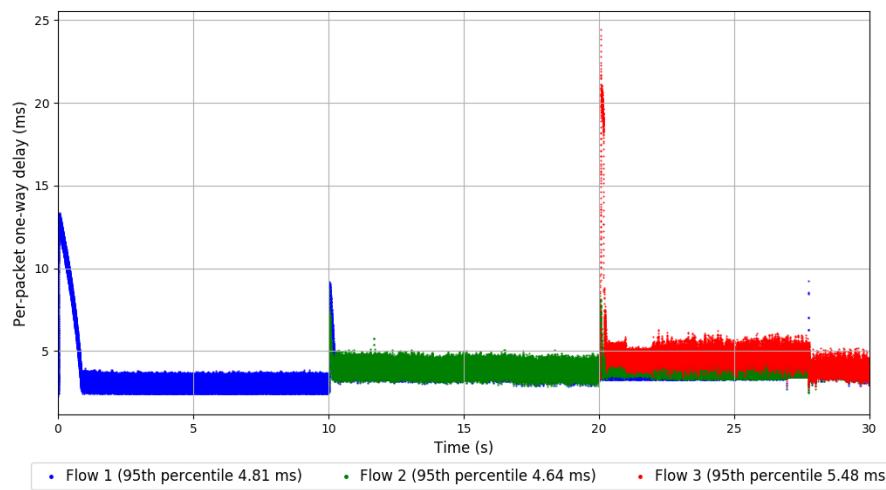
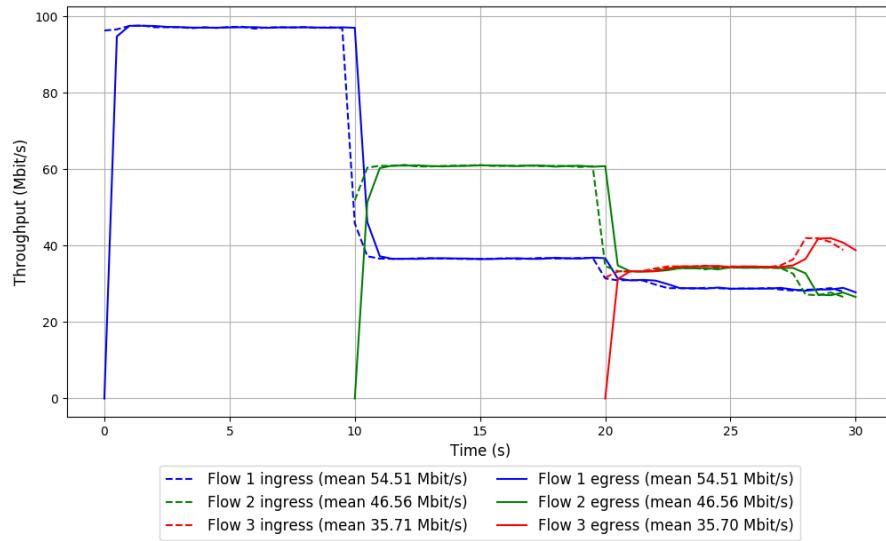


Run 2: Statistics of TCP Vegas

```
Start at: 2018-12-20 08:29:54
End at: 2018-12-20 08:30:24
Local clock offset: -6.84 ms
Remote clock offset: -0.589 ms

# Below is generated by plot.py at 2018-12-20 09:54:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.37 Mbit/s
95th percentile per-packet one-way delay: 5.105 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 54.51 Mbit/s
95th percentile per-packet one-way delay: 4.808 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 46.56 Mbit/s
95th percentile per-packet one-way delay: 4.640 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 35.70 Mbit/s
95th percentile per-packet one-way delay: 5.480 ms
Loss rate: 0.07%
```

Run 2: Report of TCP Vegas — Data Link

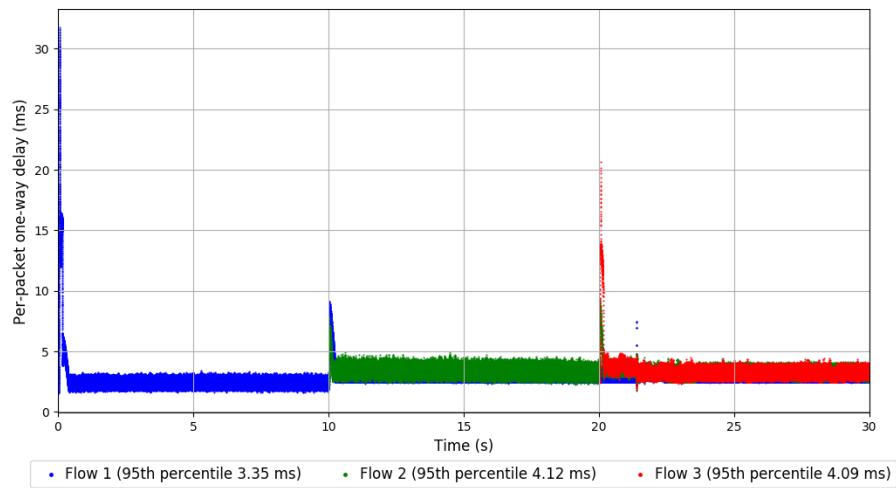
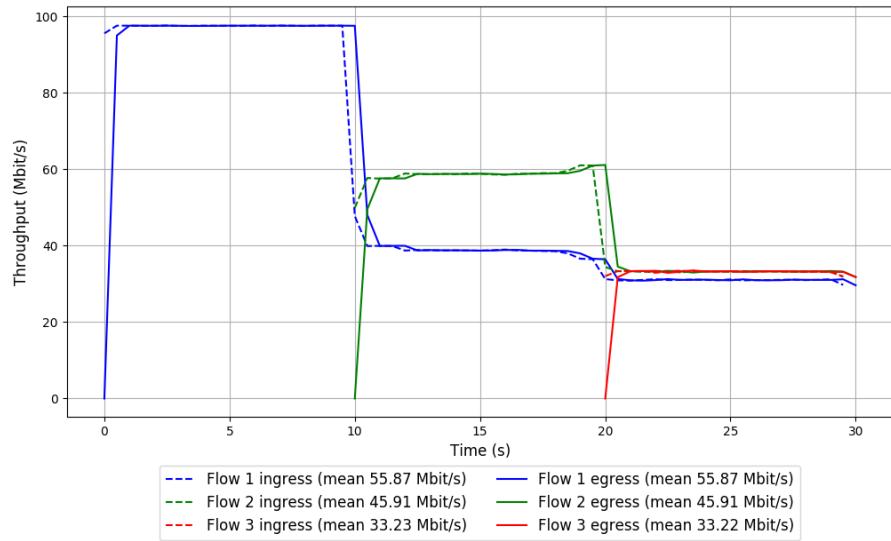


Run 3: Statistics of TCP Vegas

```
Start at: 2018-12-20 08:51:51
End at: 2018-12-20 08:52:21
Local clock offset: -7.597 ms
Remote clock offset: -0.422 ms

# Below is generated by plot.py at 2018-12-20 09:54:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 3.987 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 55.87 Mbit/s
95th percentile per-packet one-way delay: 3.350 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 45.91 Mbit/s
95th percentile per-packet one-way delay: 4.115 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 33.22 Mbit/s
95th percentile per-packet one-way delay: 4.090 ms
Loss rate: 0.07%
```

Run 3: Report of TCP Vegas — Data Link

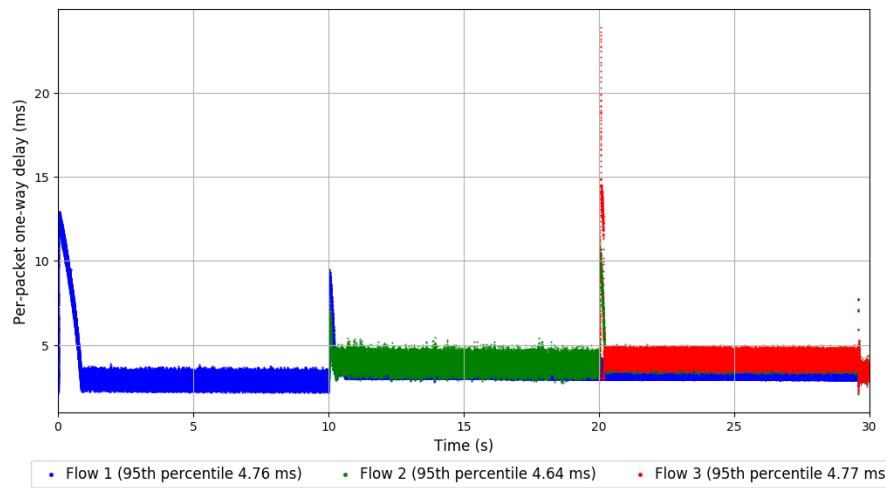
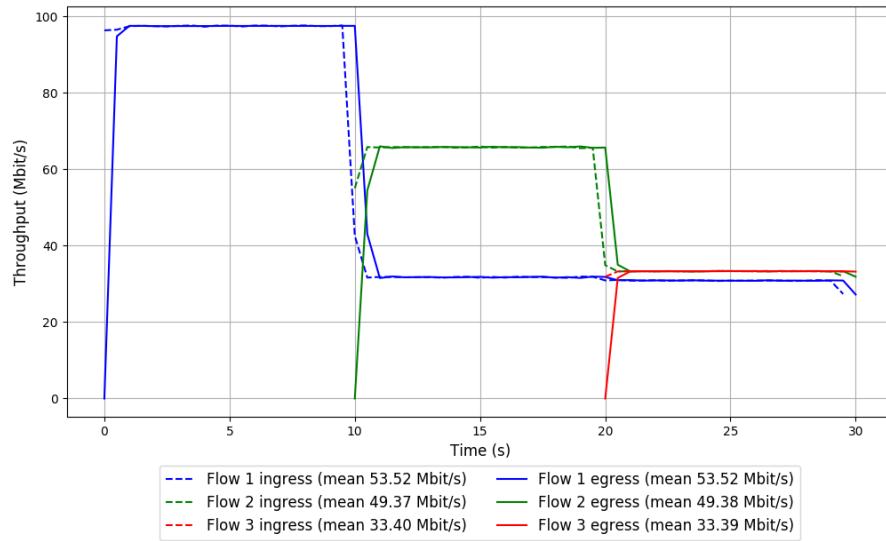


Run 4: Statistics of TCP Vegas

```
Start at: 2018-12-20 09:13:48
End at: 2018-12-20 09:14:18
Local clock offset: -2.502 ms
Remote clock offset: -0.178 ms

# Below is generated by plot.py at 2018-12-20 09:55:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: 4.709 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 53.52 Mbit/s
95th percentile per-packet one-way delay: 4.761 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 49.38 Mbit/s
95th percentile per-packet one-way delay: 4.640 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 33.39 Mbit/s
95th percentile per-packet one-way delay: 4.769 ms
Loss rate: 0.05%
```

Run 4: Report of TCP Vegas — Data Link

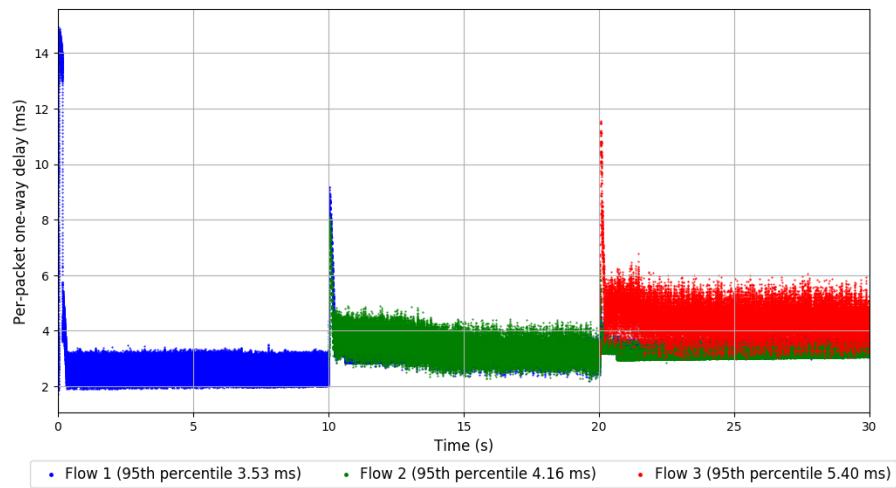
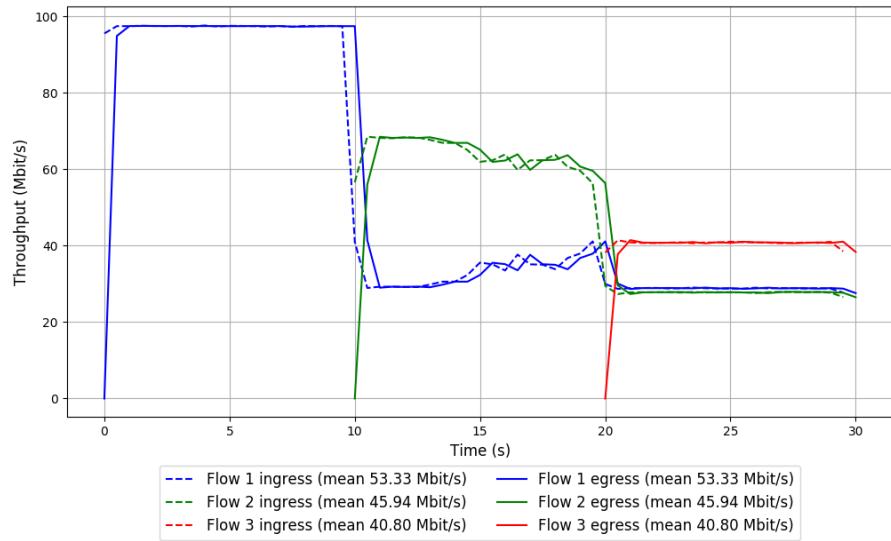


Run 5: Statistics of TCP Vegas

```
Start at: 2018-12-20 09:35:46
End at: 2018-12-20 09:36:16
Local clock offset: -0.166 ms
Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2018-12-20 09:55:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 4.785 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 53.33 Mbit/s
95th percentile per-packet one-way delay: 3.530 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 45.94 Mbit/s
95th percentile per-packet one-way delay: 4.156 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 40.80 Mbit/s
95th percentile per-packet one-way delay: 5.401 ms
Loss rate: 0.07%
```

Run 5: Report of TCP Vegas — Data Link

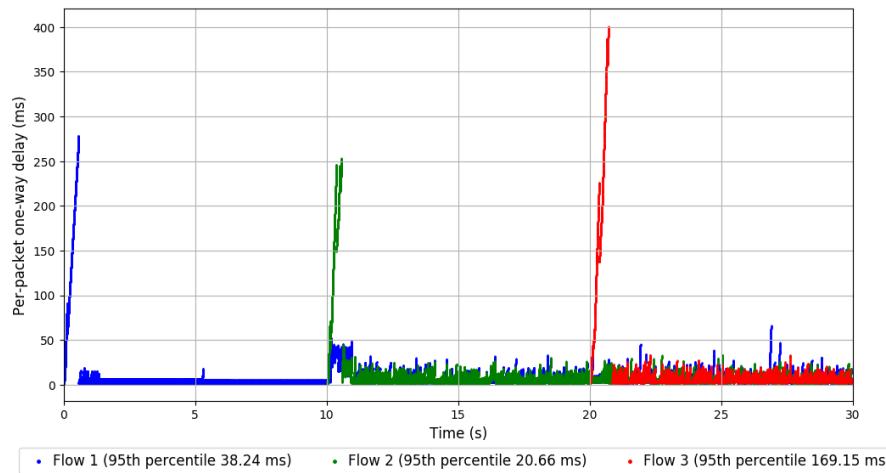
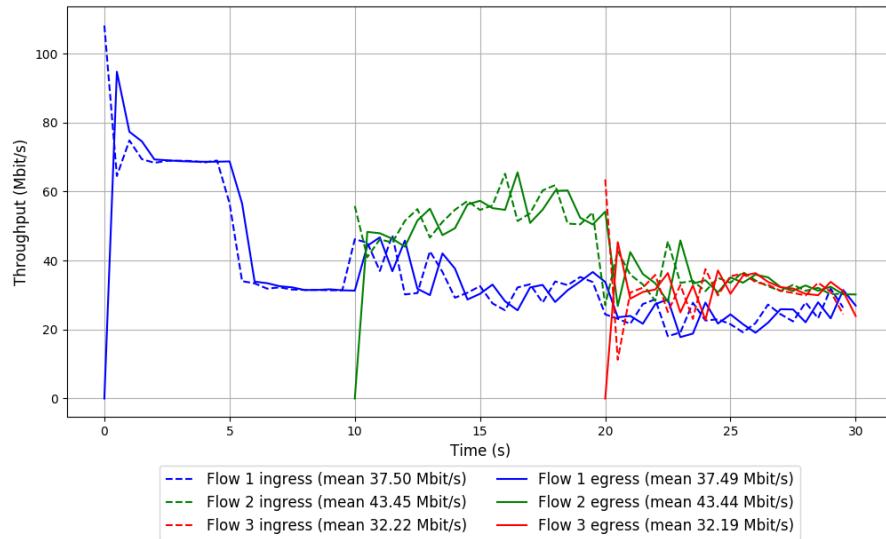


Run 1: Statistics of Verus

```
Start at: 2018-12-20 08:11:24
End at: 2018-12-20 08:11:54
Local clock offset: -3.929 ms
Remote clock offset: -0.722 ms

# Below is generated by plot.py at 2018-12-20 09:55:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.09 Mbit/s
95th percentile per-packet one-way delay: 35.398 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 37.49 Mbit/s
95th percentile per-packet one-way delay: 38.242 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 43.44 Mbit/s
95th percentile per-packet one-way delay: 20.655 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 32.19 Mbit/s
95th percentile per-packet one-way delay: 169.153 ms
Loss rate: 0.13%
```

Run 1: Report of Verus — Data Link

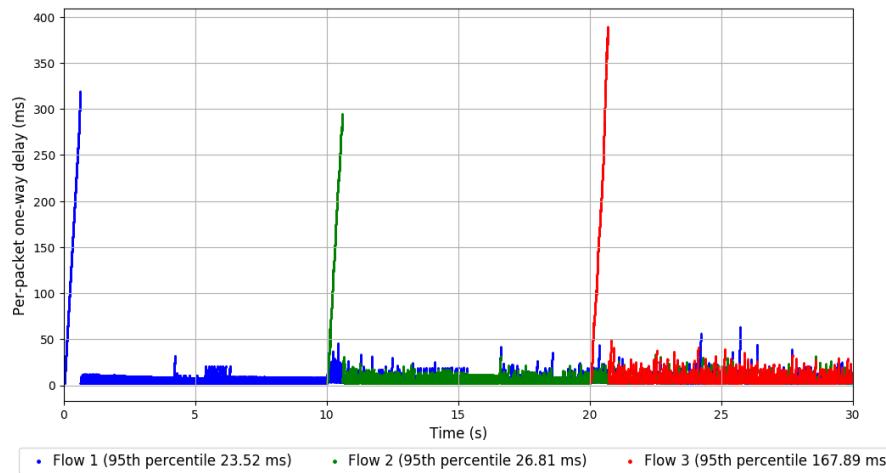
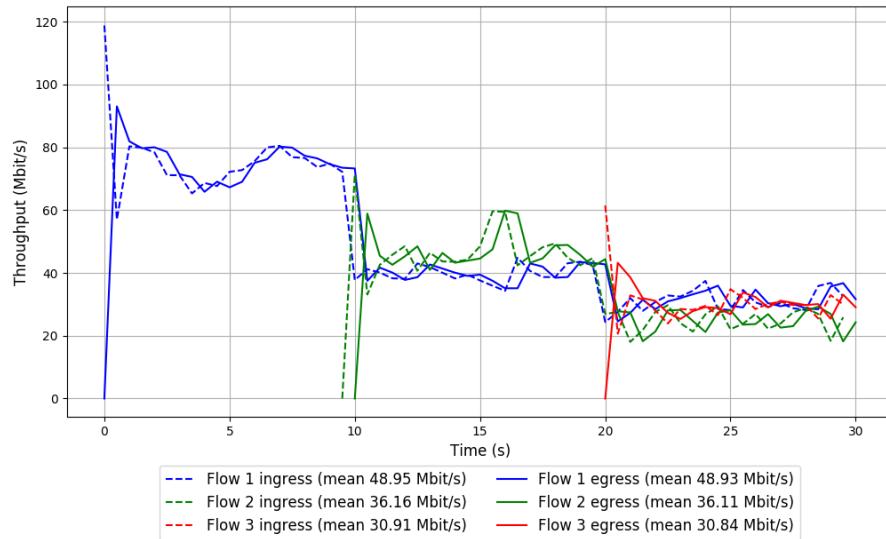


Run 2: Statistics of Verus

```
Start at: 2018-12-20 08:33:21
End at: 2018-12-20 08:33:51
Local clock offset: -7.111 ms
Remote clock offset: -0.64 ms

# Below is generated by plot.py at 2018-12-20 09:55:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.24 Mbit/s
95th percentile per-packet one-way delay: 31.115 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 48.93 Mbit/s
95th percentile per-packet one-way delay: 23.520 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 36.11 Mbit/s
95th percentile per-packet one-way delay: 26.813 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 30.84 Mbit/s
95th percentile per-packet one-way delay: 167.894 ms
Loss rate: 0.21%
```

Run 2: Report of Verus — Data Link

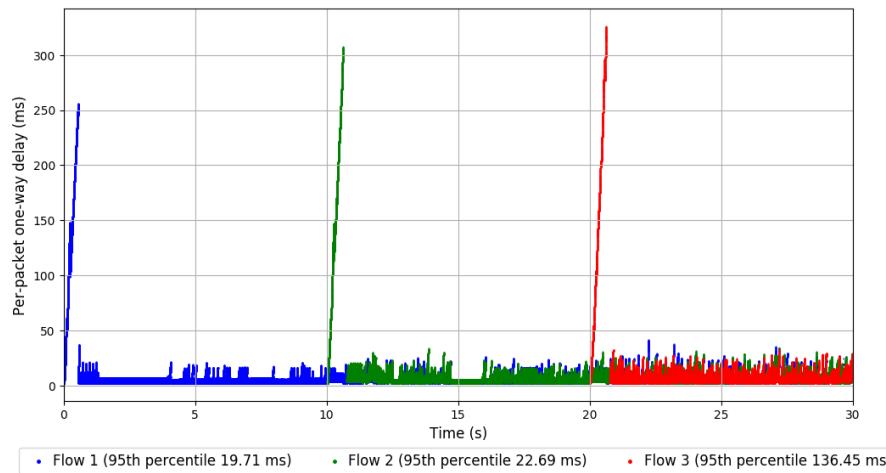
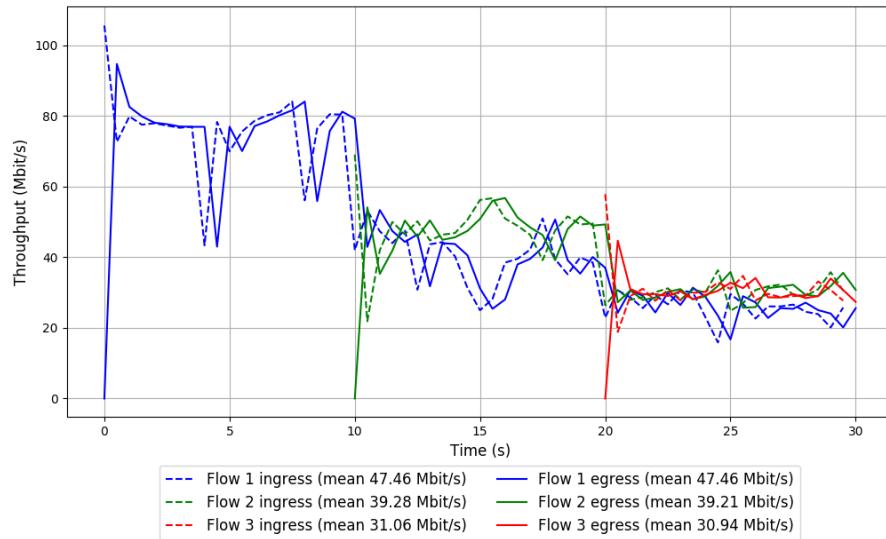


Run 3: Statistics of Verus

```
Start at: 2018-12-20 08:55:18
End at: 2018-12-20 08:55:48
Local clock offset: -6.804 ms
Remote clock offset: -0.403 ms

# Below is generated by plot.py at 2018-12-20 09:55:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.84 Mbit/s
95th percentile per-packet one-way delay: 23.316 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 47.46 Mbit/s
95th percentile per-packet one-way delay: 19.711 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 39.21 Mbit/s
95th percentile per-packet one-way delay: 22.691 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 30.94 Mbit/s
95th percentile per-packet one-way delay: 136.447 ms
Loss rate: 0.14%
```

Run 3: Report of Verus — Data Link

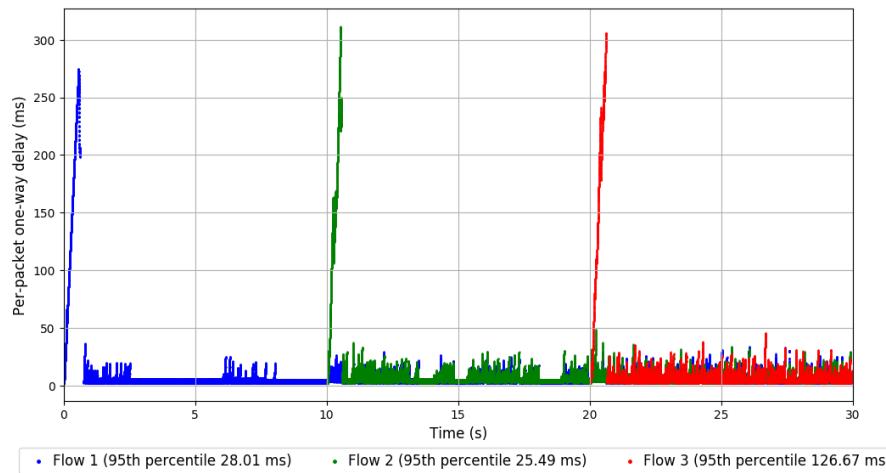
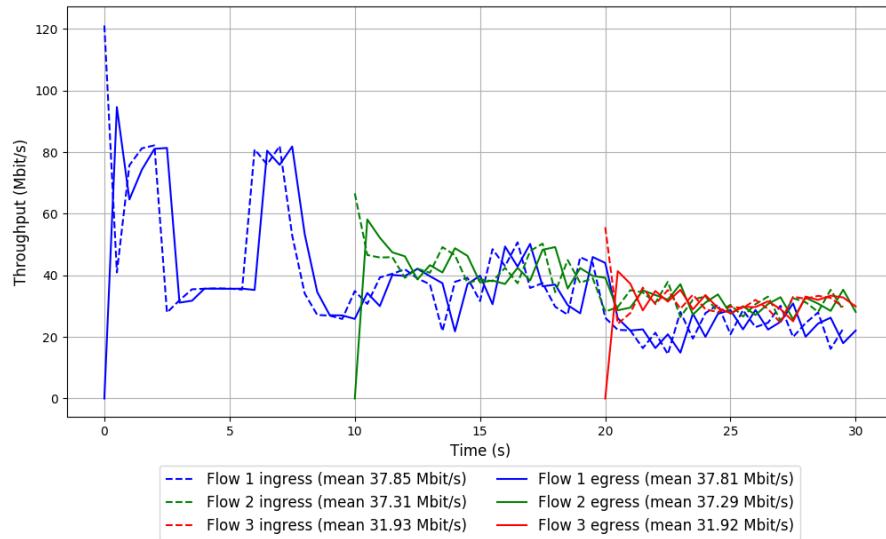


Run 4: Statistics of Verus

```
Start at: 2018-12-20 09:17:15
End at: 2018-12-20 09:17:45
Local clock offset: -1.58 ms
Remote clock offset: -0.199 ms

# Below is generated by plot.py at 2018-12-20 09:55:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.24 Mbit/s
95th percentile per-packet one-way delay: 31.654 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 37.81 Mbit/s
95th percentile per-packet one-way delay: 28.009 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 37.29 Mbit/s
95th percentile per-packet one-way delay: 25.488 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 31.92 Mbit/s
95th percentile per-packet one-way delay: 126.675 ms
Loss rate: 0.07%
```

Run 4: Report of Verus — Data Link

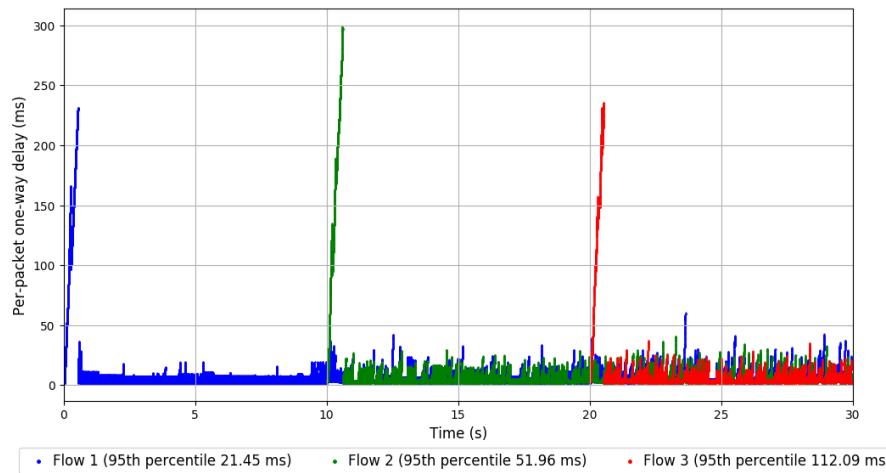
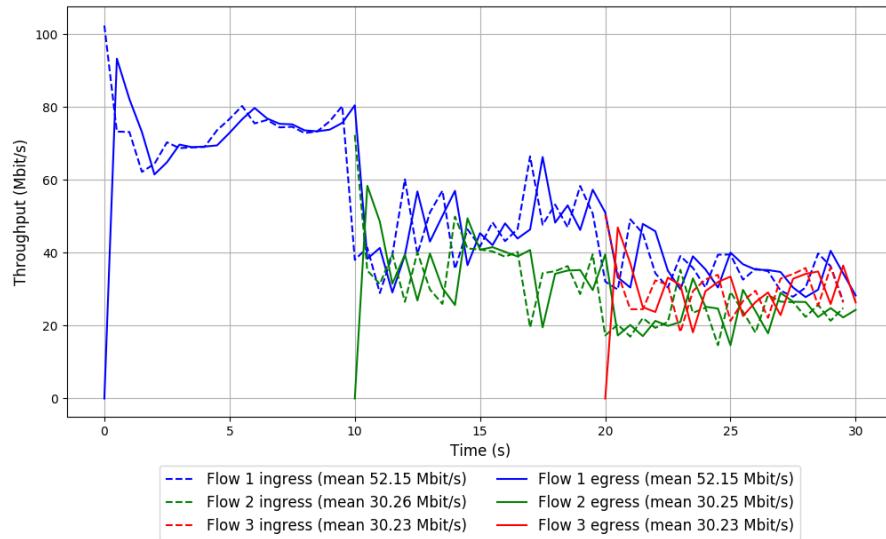


Run 5: Statistics of Verus

```
Start at: 2018-12-20 09:39:13
End at: 2018-12-20 09:39:43
Local clock offset: -2.316 ms
Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2018-12-20 09:55:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.34 Mbit/s
95th percentile per-packet one-way delay: 25.716 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 52.15 Mbit/s
95th percentile per-packet one-way delay: 21.452 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 30.25 Mbit/s
95th percentile per-packet one-way delay: 51.963 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 30.23 Mbit/s
95th percentile per-packet one-way delay: 112.088 ms
Loss rate: 0.04%
```

Run 5: Report of Verus — Data Link

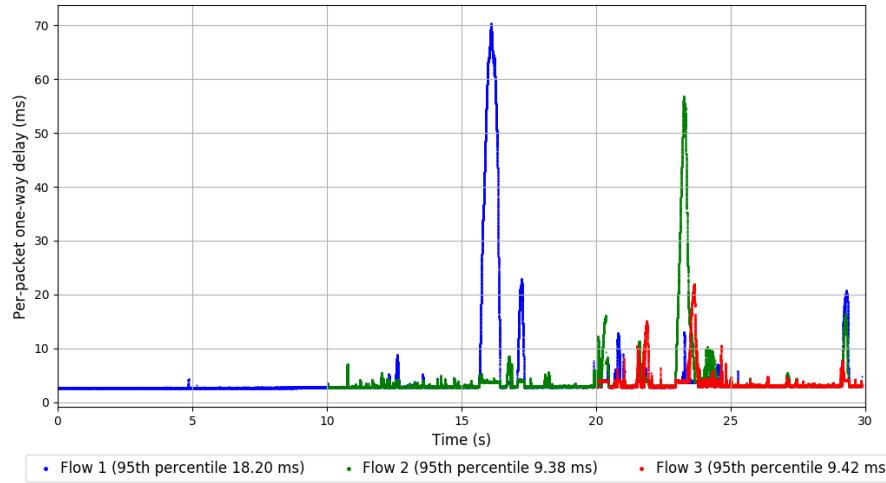
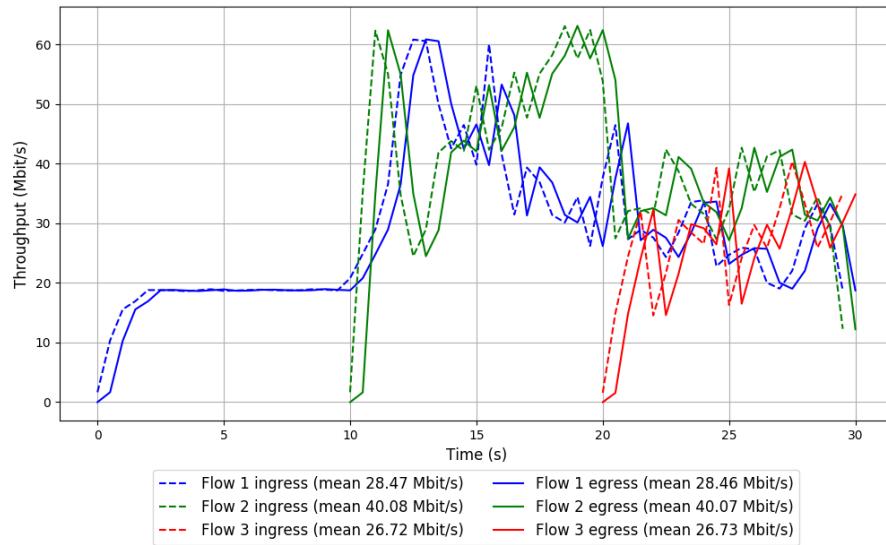


Run 1: Statistics of PCC-Vivace

```
Start at: 2018-12-20 08:06:48
End at: 2018-12-20 08:07:18
Local clock offset: -0.677 ms
Remote clock offset: -0.783 ms

# Below is generated by plot.py at 2018-12-20 09:55:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.93 Mbit/s
95th percentile per-packet one-way delay: 11.485 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 28.46 Mbit/s
95th percentile per-packet one-way delay: 18.195 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 40.07 Mbit/s
95th percentile per-packet one-way delay: 9.385 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 26.73 Mbit/s
95th percentile per-packet one-way delay: 9.418 ms
Loss rate: 0.10%
```

Run 1: Report of PCC-Vivace — Data Link

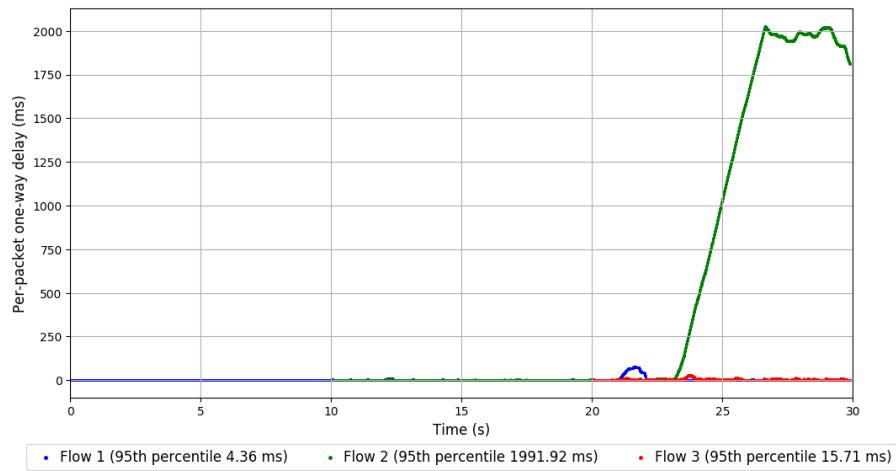
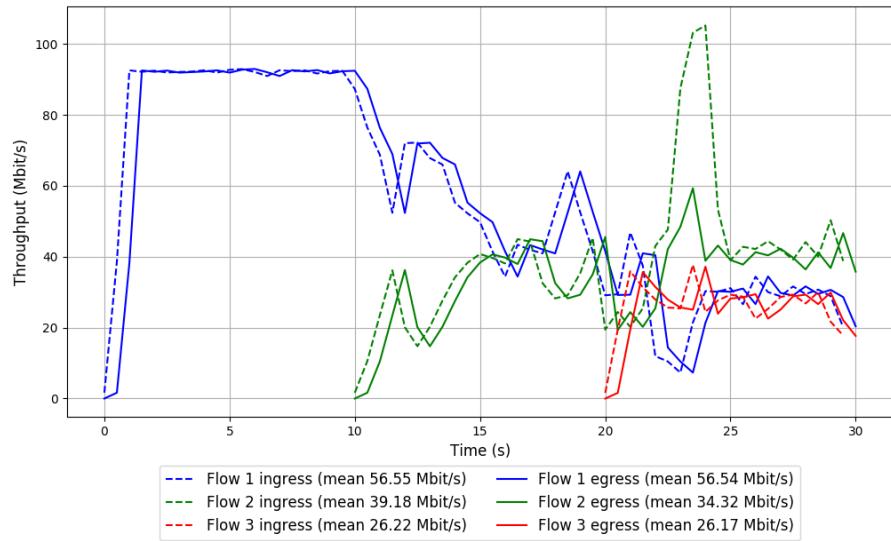


Run 2: Statistics of PCC-Vivace

```
Start at: 2018-12-20 08:28:43
End at: 2018-12-20 08:29:13
Local clock offset: -6.734 ms
Remote clock offset: -0.681 ms

# Below is generated by plot.py at 2018-12-20 09:55:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.00 Mbit/s
95th percentile per-packet one-way delay: 1888.473 ms
Loss rate: 3.59%
-- Flow 1:
Average throughput: 56.54 Mbit/s
95th percentile per-packet one-way delay: 4.363 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 34.32 Mbit/s
95th percentile per-packet one-way delay: 1991.921 ms
Loss rate: 12.43%
-- Flow 3:
Average throughput: 26.17 Mbit/s
95th percentile per-packet one-way delay: 15.712 ms
Loss rate: 0.20%
```

Run 2: Report of PCC-Vivace — Data Link

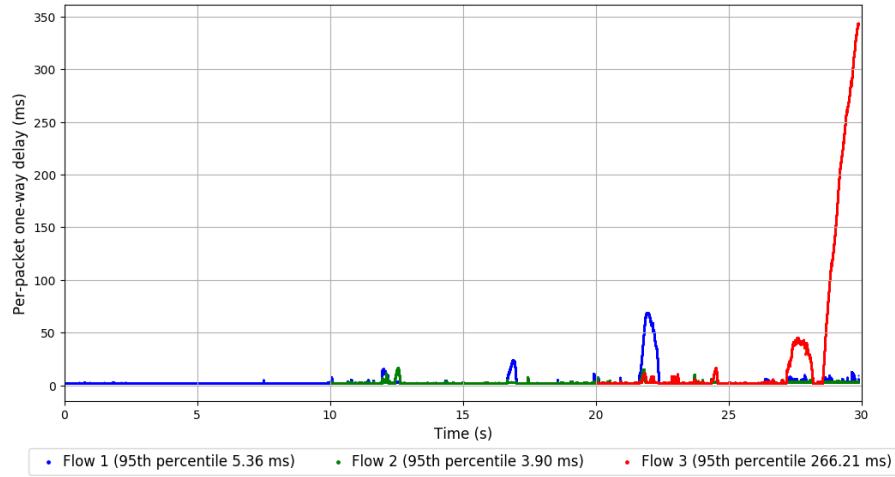
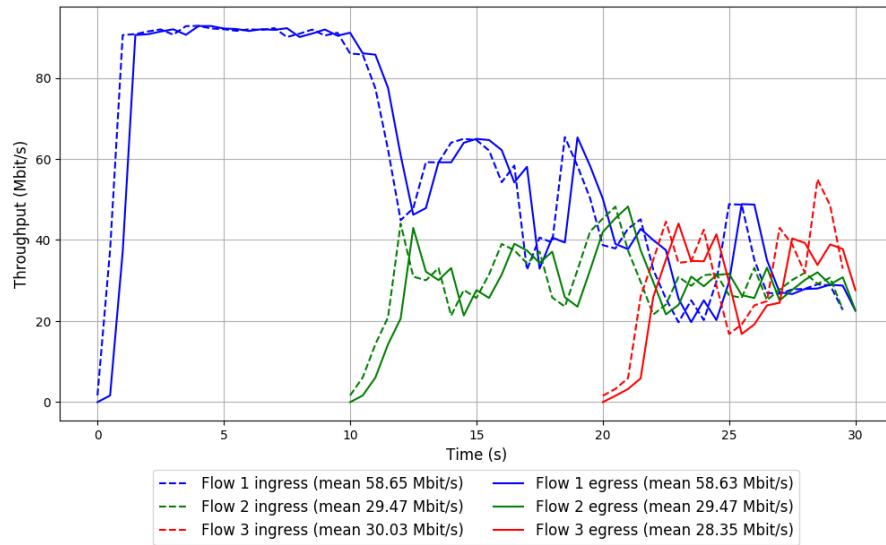


Run 3: Statistics of PCC-Vivace

```
Start at: 2018-12-20 08:50:41
End at: 2018-12-20 08:51:11
Local clock offset: -6.761 ms
Remote clock offset: -0.362 ms

# Below is generated by plot.py at 2018-12-20 09:55:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.57 Mbit/s
95th percentile per-packet one-way delay: 14.757 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 58.63 Mbit/s
95th percentile per-packet one-way delay: 5.363 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 29.47 Mbit/s
95th percentile per-packet one-way delay: 3.905 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 28.35 Mbit/s
95th percentile per-packet one-way delay: 266.207 ms
Loss rate: 5.64%
```

Run 3: Report of PCC-Vivace — Data Link

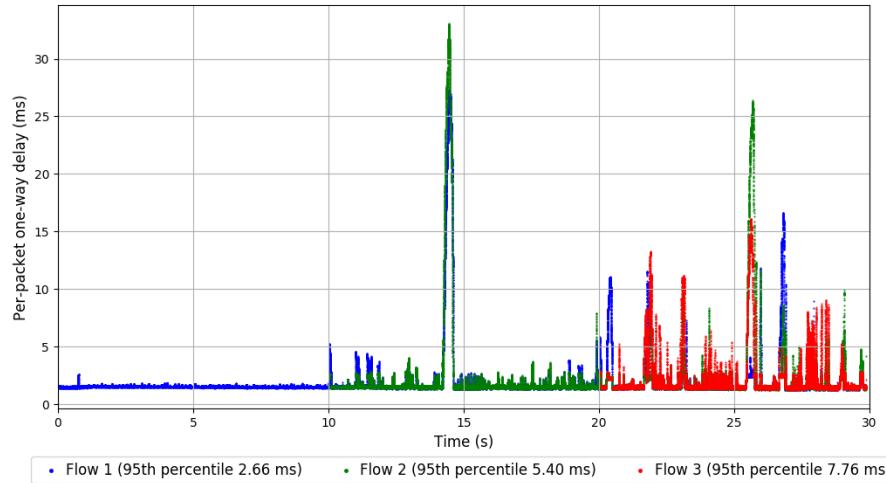
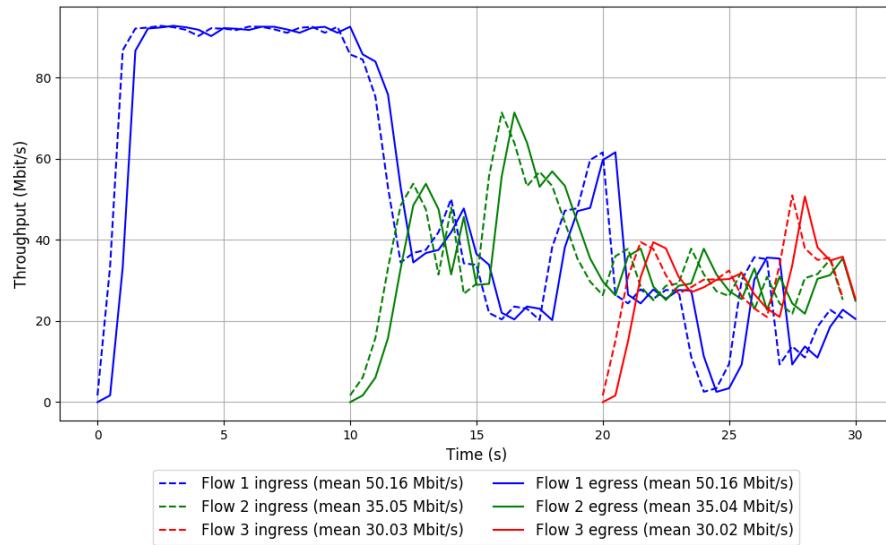


Run 4: Statistics of PCC-Vivace

```
Start at: 2018-12-20 09:12:38
End at: 2018-12-20 09:13:08
Local clock offset: -3.623 ms
Remote clock offset: -0.246 ms

# Below is generated by plot.py at 2018-12-20 09:56:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.38 Mbit/s
95th percentile per-packet one-way delay: 4.364 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 50.16 Mbit/s
95th percentile per-packet one-way delay: 2.662 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 35.04 Mbit/s
95th percentile per-packet one-way delay: 5.401 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 30.02 Mbit/s
95th percentile per-packet one-way delay: 7.757 ms
Loss rate: 0.06%
```

Run 4: Report of PCC-Vivace — Data Link

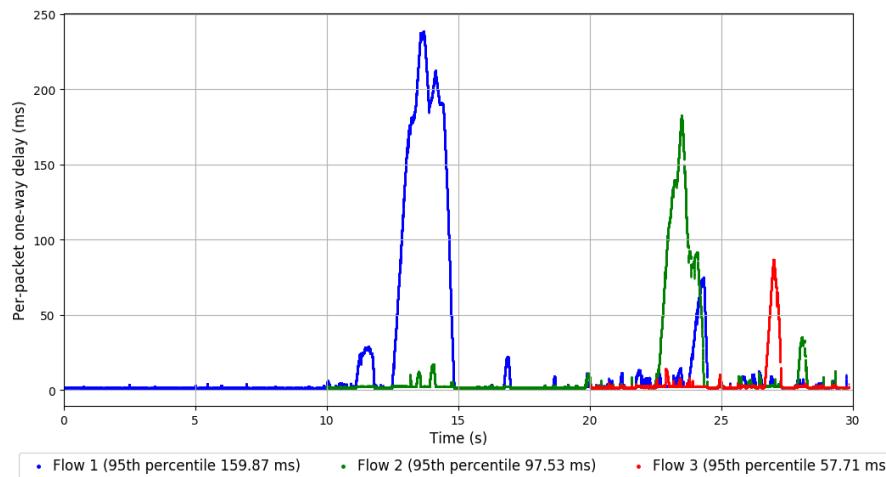
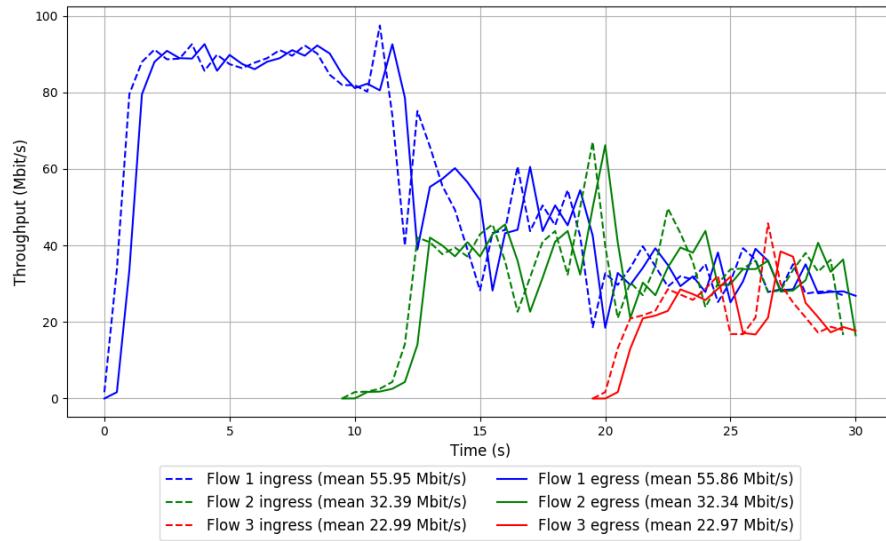


Run 5: Statistics of PCC-Vivace

```
Start at: 2018-12-20 09:34:36
End at: 2018-12-20 09:35:06
Local clock offset: 0.222 ms
Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2018-12-20 09:56:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.97 Mbit/s
95th percentile per-packet one-way delay: 110.912 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 55.86 Mbit/s
95th percentile per-packet one-way delay: 159.870 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 32.34 Mbit/s
95th percentile per-packet one-way delay: 97.529 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 22.97 Mbit/s
95th percentile per-packet one-way delay: 57.707 ms
Loss rate: 0.12%
```

Run 5: Report of PCC-Vivace — Data Link

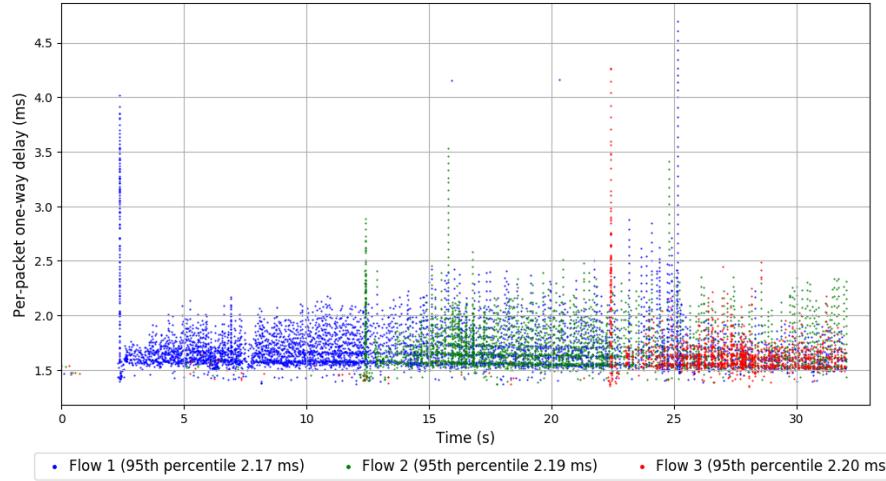
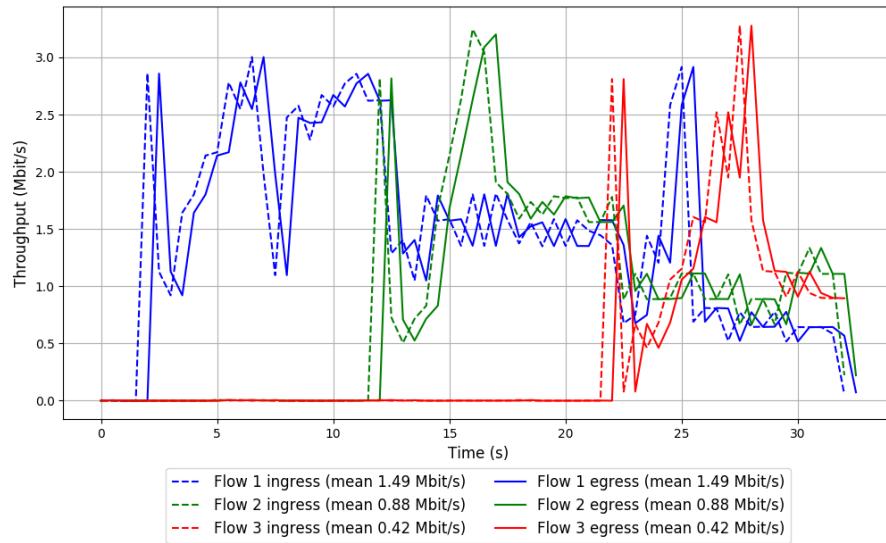


```
Run 1: Statistics of WebRTC media

Start at: 2018-12-20 07:51:48
End at: 2018-12-20 07:52:18
Local clock offset: -1.572 ms
Remote clock offset: -0.721 ms

# Below is generated by plot.py at 2018-12-20 09:56:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.78 Mbit/s
95th percentile per-packet one-way delay: 2.181 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.49 Mbit/s
95th percentile per-packet one-way delay: 2.168 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.88 Mbit/s
95th percentile per-packet one-way delay: 2.191 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 2.198 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

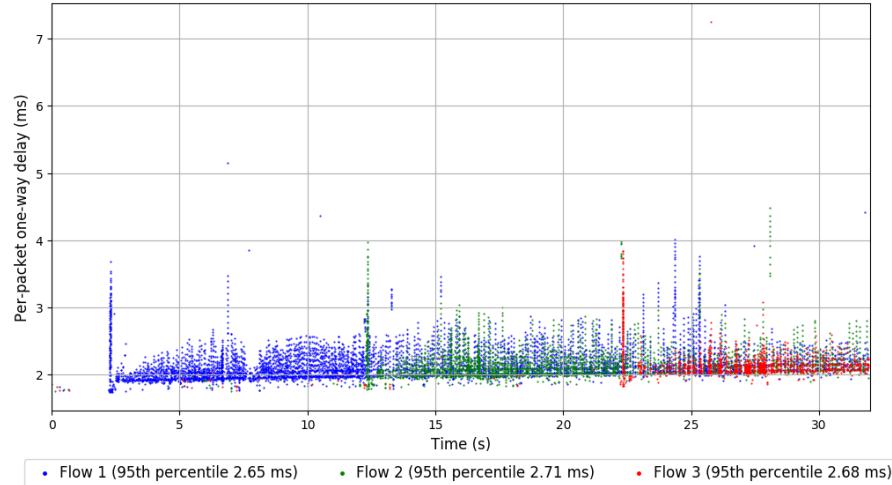
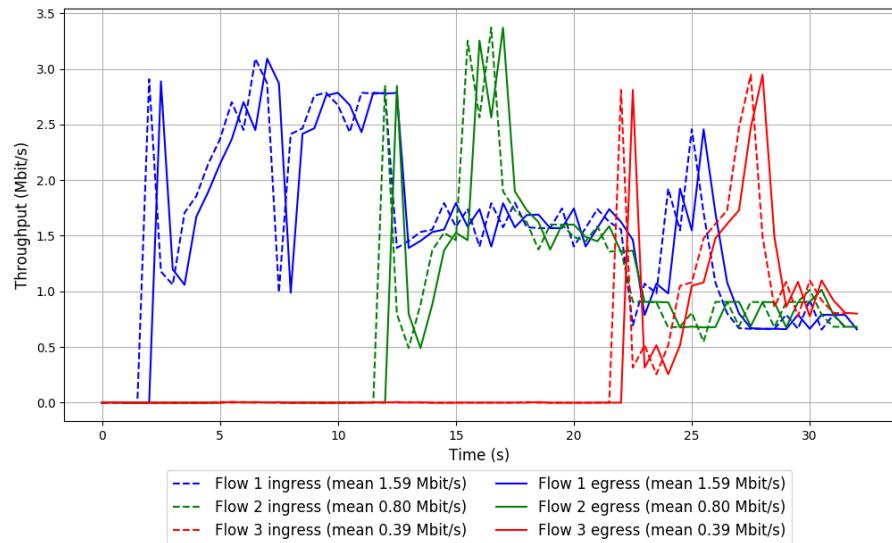


Run 2: Statistics of WebRTC media

```
Start at: 2018-12-20 08:13:43
End at: 2018-12-20 08:14:13
Local clock offset: -4.779 ms
Remote clock offset: -0.799 ms

# Below is generated by plot.py at 2018-12-20 09:56:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.76 Mbit/s
95th percentile per-packet one-way delay: 2.680 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 1.59 Mbit/s
95th percentile per-packet one-way delay: 2.654 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 0.80 Mbit/s
95th percentile per-packet one-way delay: 2.707 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 2.676 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

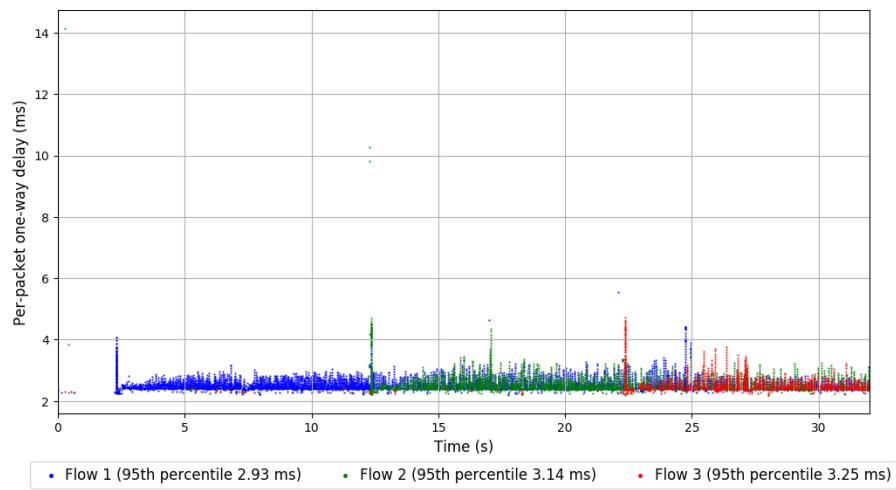
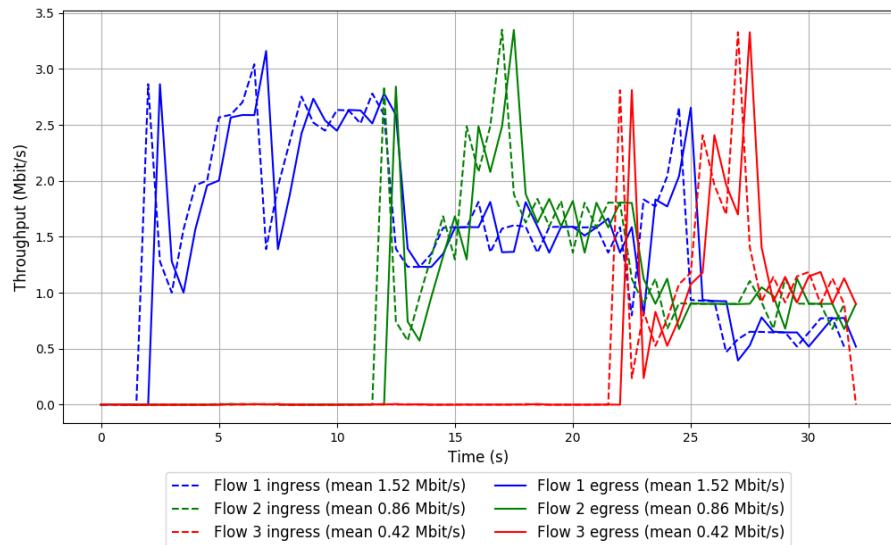


Run 3: Statistics of WebRTC media

```
Start at: 2018-12-20 08:35:40
End at: 2018-12-20 08:36:10
Local clock offset: -7.249 ms
Remote clock offset: -0.627 ms

# Below is generated by plot.py at 2018-12-20 09:56:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.78 Mbit/s
95th percentile per-packet one-way delay: 3.044 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.52 Mbit/s
95th percentile per-packet one-way delay: 2.933 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.86 Mbit/s
95th percentile per-packet one-way delay: 3.138 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 3.250 ms
Loss rate: 0.01%
```

Run 3: Report of WebRTC media — Data Link

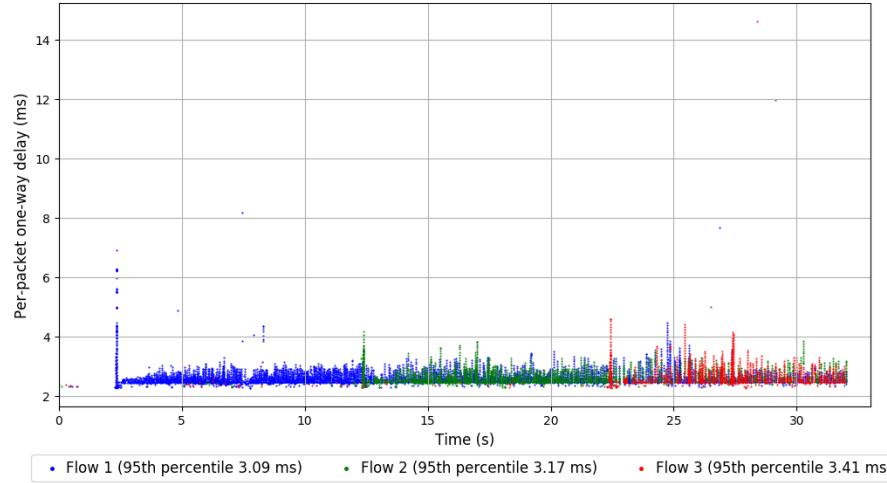
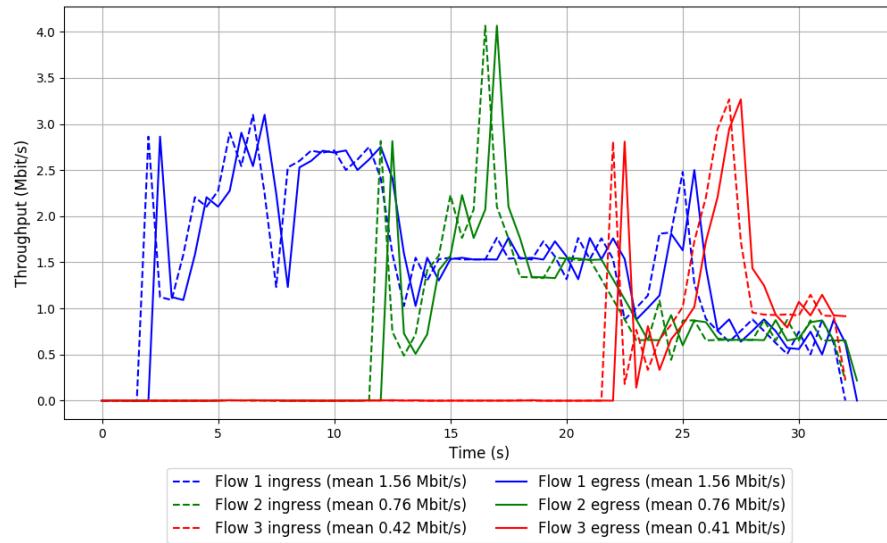


Run 4: Statistics of WebRTC media

```
Start at: 2018-12-20 08:57:37
End at: 2018-12-20 08:58:07
Local clock offset: -6.816 ms
Remote clock offset: -0.363 ms

# Below is generated by plot.py at 2018-12-20 09:56:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.71 Mbit/s
95th percentile per-packet one-way delay: 3.176 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 1.56 Mbit/s
95th percentile per-packet one-way delay: 3.087 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.76 Mbit/s
95th percentile per-packet one-way delay: 3.167 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 3.408 ms
Loss rate: 0.86%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2018-12-20 09:19:33
End at: 2018-12-20 09:20:03
Local clock offset: -1.812 ms
Remote clock offset: -0.127 ms

# Below is generated by plot.py at 2018-12-20 09:56:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.78 Mbit/s
95th percentile per-packet one-way delay: 2.190 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 1.56 Mbit/s
95th percentile per-packet one-way delay: 2.133 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 0.79 Mbit/s
95th percentile per-packet one-way delay: 2.205 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 2.306 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

