

Pantheon Summary (Generated at Tue, 25 Jul 2017 02:41:56 +0000 with pantheon version 266b116f0817a07d000b4d181ce187fd27d3e654)

Repeated the test of 15 congestion control schemes 10 times.

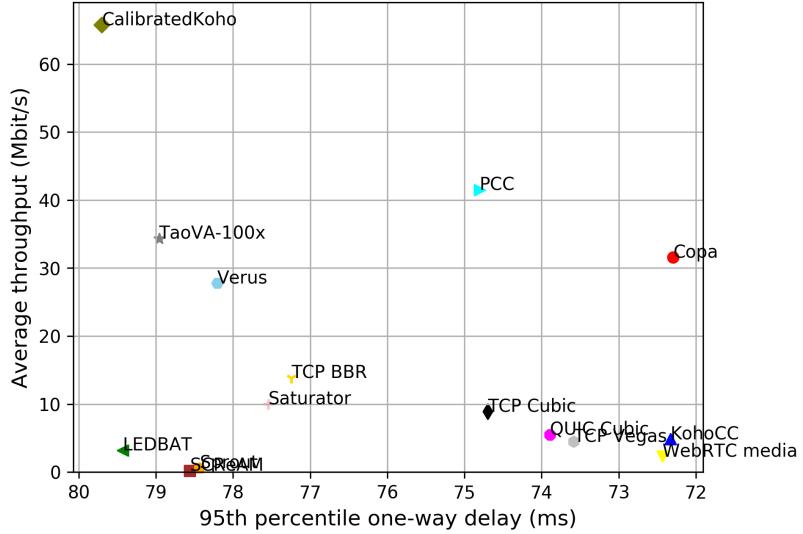
Each test lasted for 30 seconds running 1 flow.

Data path: AWS Korea Ethernet (*local*) → China Ethernet (*remote*).

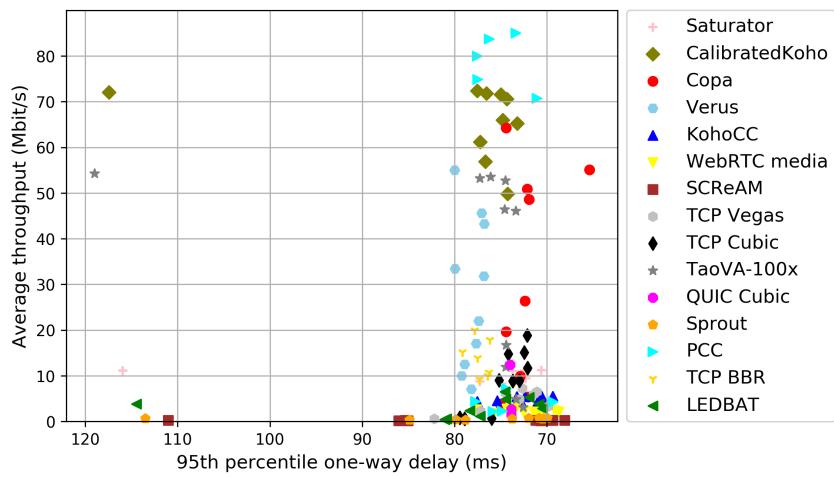
NTP offset measured against ntp.nict.jp and has been applied to correct the timestamps in logs.

```
git branch: master @ 266b116f0817a07d000b4d181ce187fd27d3e654
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ dae96123232f1bcb37725348fa2378691ce26725
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179aab4a906ce6bb7cf3cf
third_party/pantheon-stimuli @ fc73a85ca16c34366d1888dc8a0d0d88d4ebf2a7
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
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/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
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/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from AWS Korea Ethernet to China Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from AWS Korea Ethernet to China Ethernet, 10 runs of 30s each per scheme



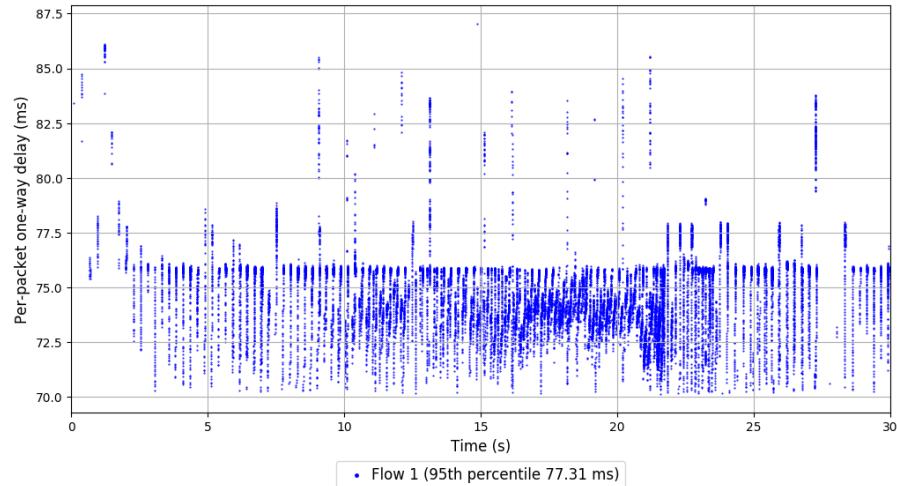
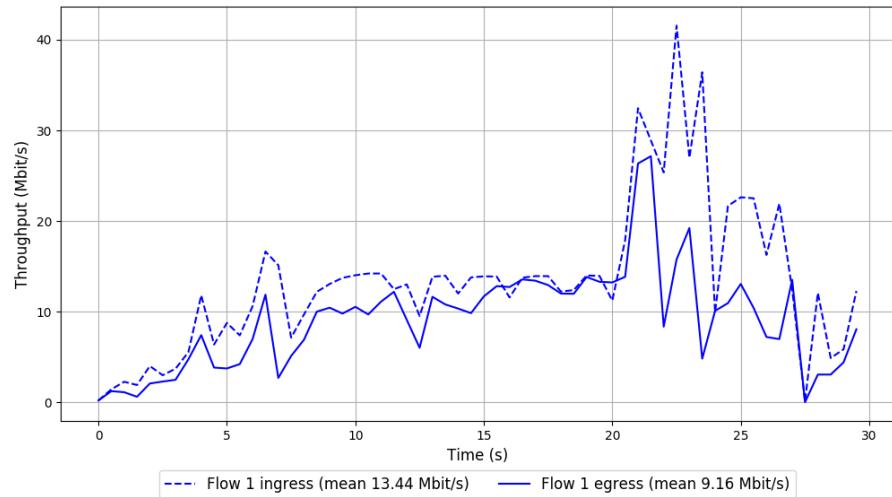
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	13.84	77.24	36.90
CalibratedKoho	10	65.74	79.70	4.28
Copa	10	31.56	72.29	0.51
TCP Cubic	10	8.91	74.70	2.28
KohoCC	10	4.86	72.33	0.92
LEDBAT	10	3.17	79.43	1.85
PCC	10	41.48	74.80	1.39
QUIC Cubic	10	5.52	73.89	1.34
Saturator	10	9.98	77.54	1.47
SCReAM	10	0.21	78.56	0.17
Sprout	10	0.58	78.43	0.55
TaoVA-100x	10	34.30	78.96	5.78
TCP Vegas	10	4.46	73.58	1.36
Verus	10	27.77	78.21	58.79
WebRTC media	10	2.29	72.44	1.20

Run 1: Statistics of TCP BBR

```
Start at: Mon, 24 Jul 2017 20:01:31 +0000
End at: Mon, 24 Jul 2017 20:02:01 +0000
Local clock offset: -1.393 ms
Remote clock offset: 4.026 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:37:14 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.16 Mbit/s
95th percentile per-packet one-way delay: 77.315 ms
Loss rate: 31.82%
-- Flow 1:
Average throughput: 9.16 Mbit/s
95th percentile per-packet one-way delay: 77.315 ms
Loss rate: 31.82%
```

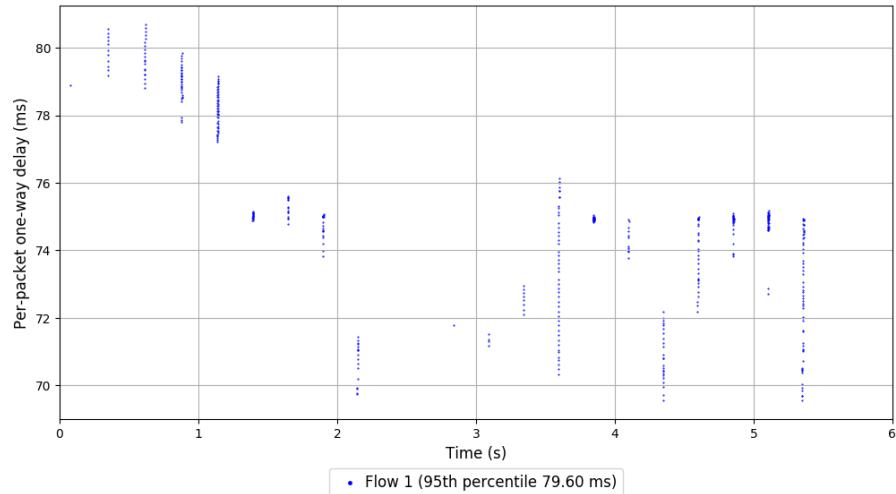
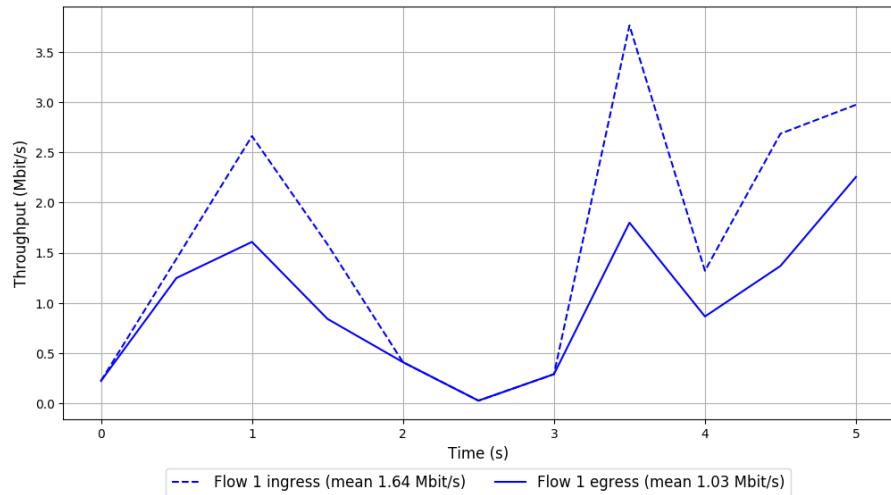
Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: Mon, 24 Jul 2017 20:20:42 +0000
End at: Mon, 24 Jul 2017 20:21:12 +0000
Local clock offset: -1.344 ms
Remote clock offset: 8.257 ms

Run 2: Report of TCP BBR — Data Link

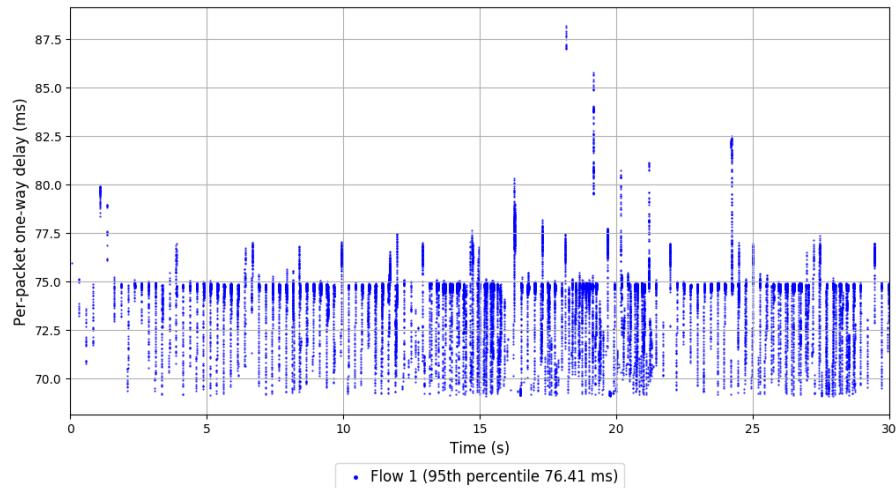
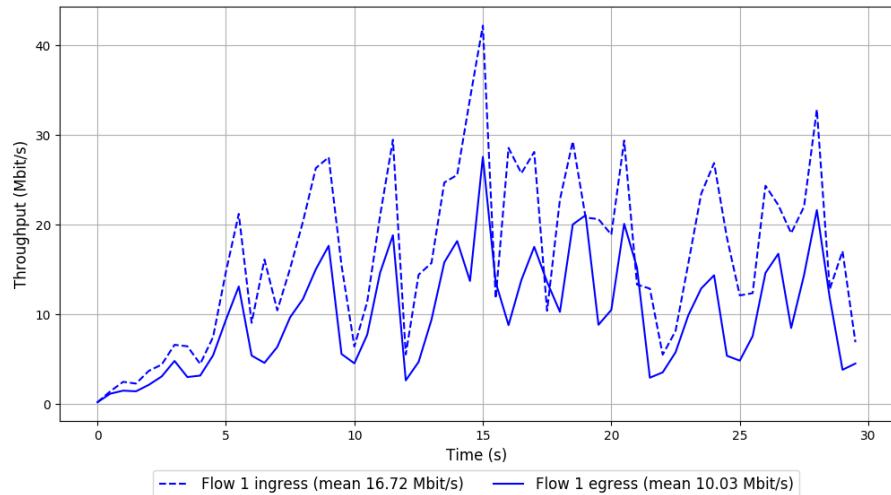


Run 3: Statistics of TCP BBR

```
Start at: Mon, 24 Jul 2017 20:39:45 +0000
End at: Mon, 24 Jul 2017 20:40:15 +0000
Local clock offset: -1.226 ms
Remote clock offset: 8.625 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:37:15 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.03 Mbit/s
95th percentile per-packet one-way delay: 76.410 ms
Loss rate: 40.00%
-- Flow 1:
Average throughput: 10.03 Mbit/s
95th percentile per-packet one-way delay: 76.410 ms
Loss rate: 40.00%
```

Run 3: Report of TCP BBR — Data Link

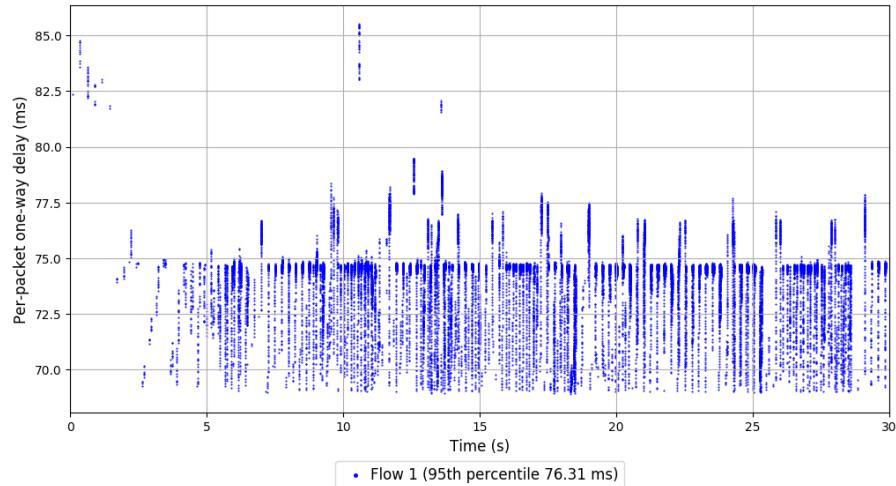
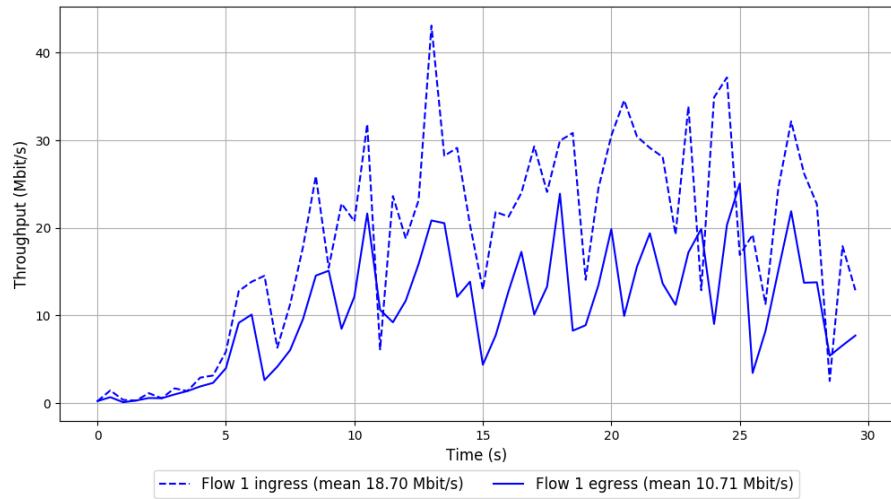


Run 4: Statistics of TCP BBR

```
Start at: Mon, 24 Jul 2017 20:58:52 +0000
End at: Mon, 24 Jul 2017 20:59:22 +0000
Local clock offset: -1.168 ms
Remote clock offset: 7.778 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:37:18 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.71 Mbit/s
95th percentile per-packet one-way delay: 76.309 ms
Loss rate: 42.73%
-- Flow 1:
Average throughput: 10.71 Mbit/s
95th percentile per-packet one-way delay: 76.309 ms
Loss rate: 42.73%
```

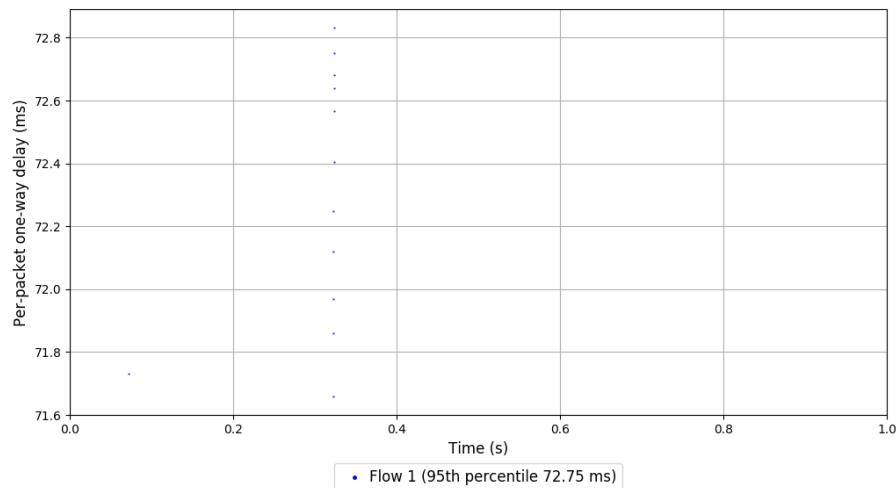
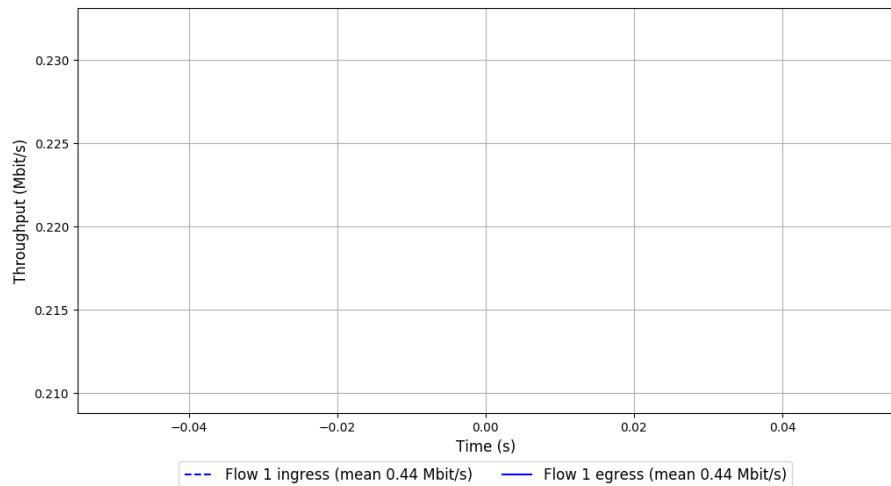
Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: Mon, 24 Jul 2017 21:18:04 +0000
End at: Mon, 24 Jul 2017 21:18:34 +0000
Local clock offset: -1.067 ms
Remote clock offset: 6.921 ms

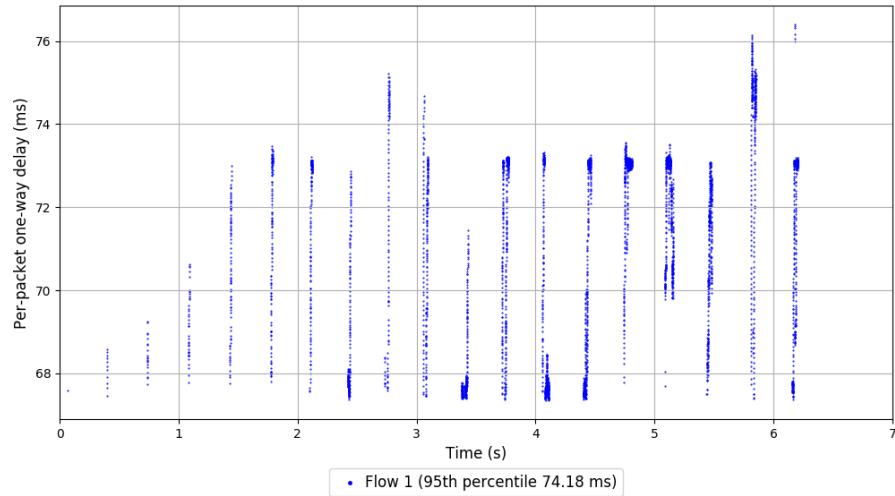
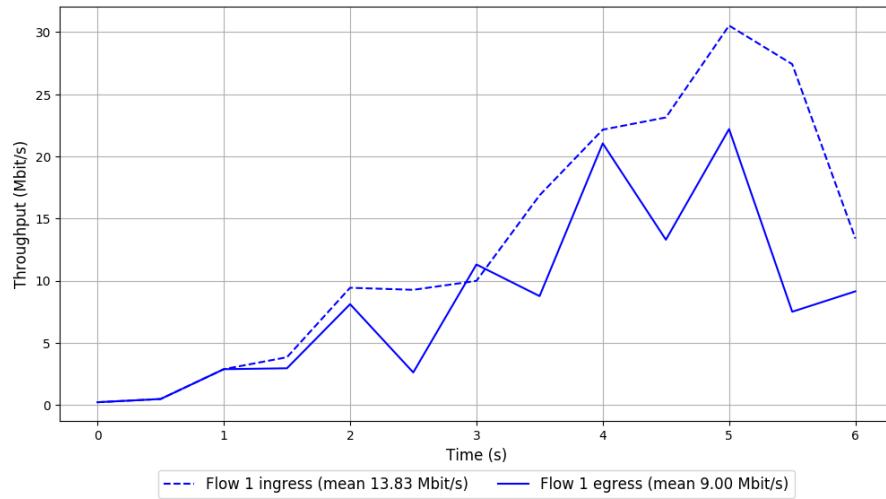
Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: Mon, 24 Jul 2017 21:37:25 +0000
End at: Mon, 24 Jul 2017 21:37:55 +0000
Local clock offset: 0.403 ms
Remote clock offset: 6.732 ms

Run 6: Report of TCP BBR — Data Link

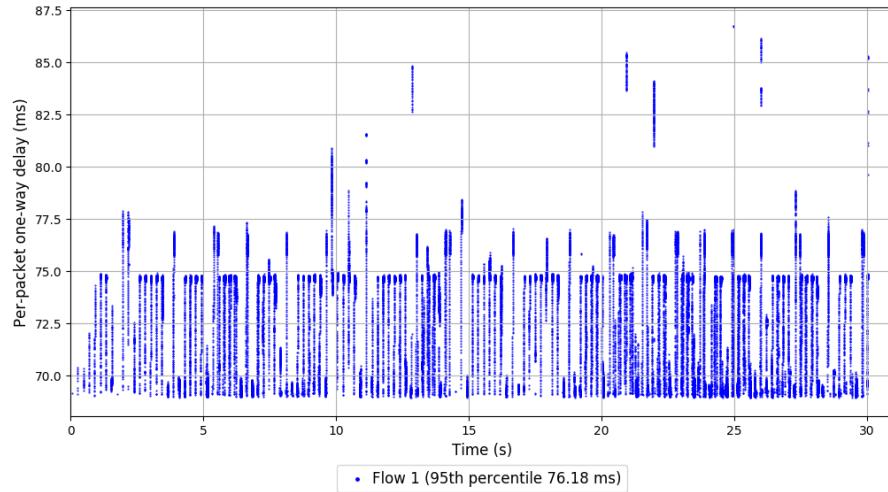
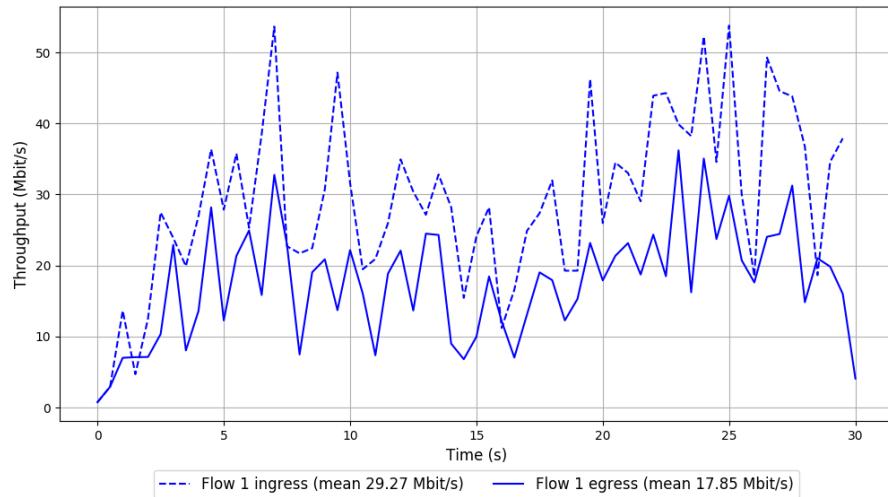


Run 7: Statistics of TCP BBR

```
Start at: Mon, 24 Jul 2017 21:58:20 +0000
End at: Mon, 24 Jul 2017 21:58:50 +0000
Local clock offset: -0.572 ms
Remote clock offset: 7.481 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:37:20 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 17.85 Mbit/s
95th percentile per-packet one-way delay: 76.184 ms
Loss rate: 39.00%
-- Flow 1:
Average throughput: 17.85 Mbit/s
95th percentile per-packet one-way delay: 76.184 ms
Loss rate: 39.00%
```

Run 7: Report of TCP BBR — Data Link

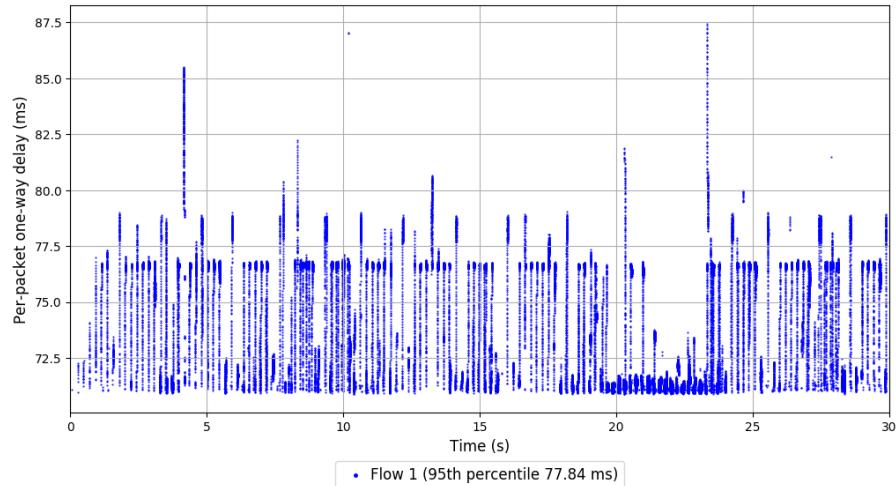
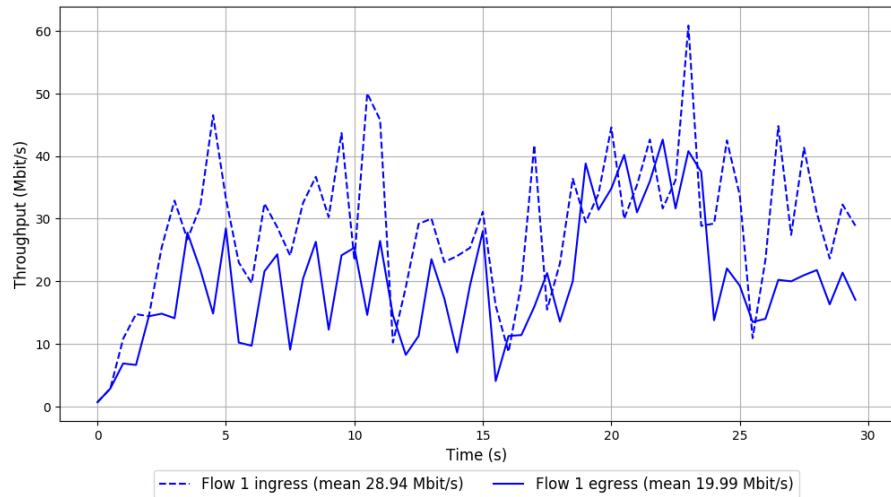


Run 8: Statistics of TCP BBR

```
Start at: Mon, 24 Jul 2017 22:17:30 +0000
End at: Mon, 24 Jul 2017 22:18:00 +0000
Local clock offset: 0.875 ms
Remote clock offset: 8.491 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:37:21 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 19.99 Mbit/s
95th percentile per-packet one-way delay: 77.843 ms
Loss rate: 30.94%
-- Flow 1:
Average throughput: 19.99 Mbit/s
95th percentile per-packet one-way delay: 77.843 ms
Loss rate: 30.94%
```

Run 8: Report of TCP BBR — Data Link

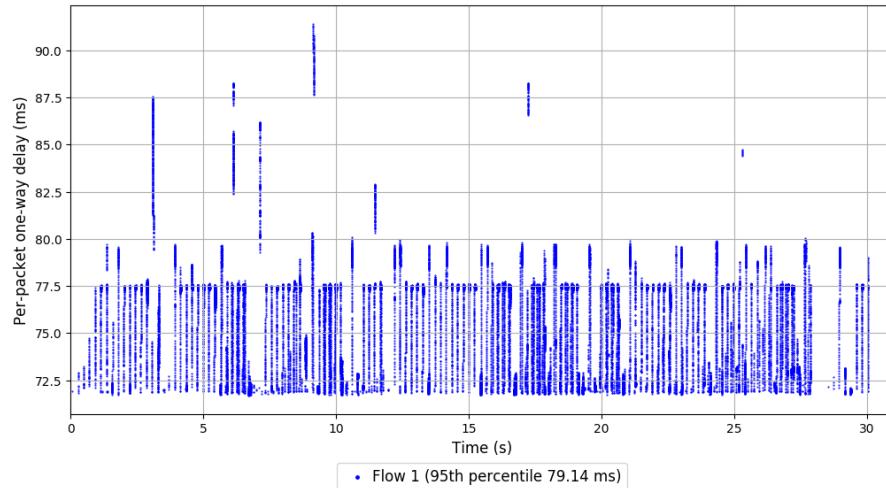
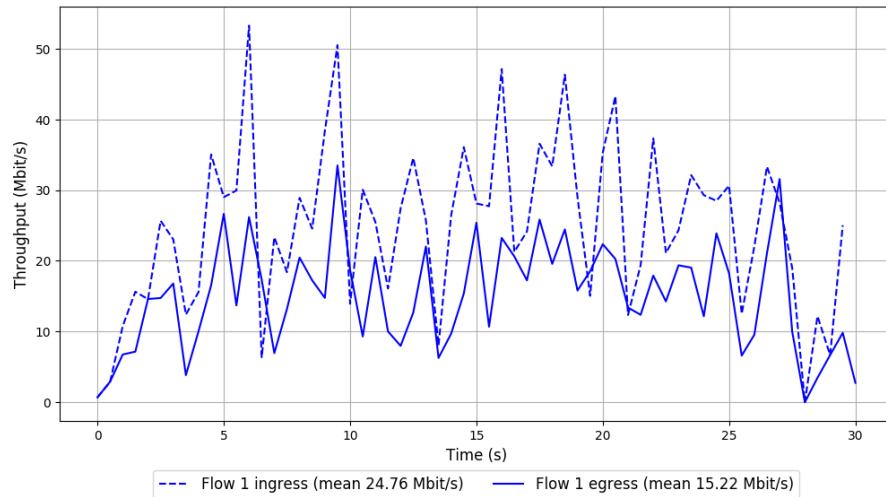


Run 9: Statistics of TCP BBR

```
Start at: Mon, 24 Jul 2017 22:37:23 +0000
End at: Mon, 24 Jul 2017 22:37:53 +0000
Local clock offset: -0.096 ms
Remote clock offset: 8.905 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:37:23 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.22 Mbit/s
95th percentile per-packet one-way delay: 79.145 ms
Loss rate: 38.51%
-- Flow 1:
Average throughput: 15.22 Mbit/s
95th percentile per-packet one-way delay: 79.145 ms
Loss rate: 38.51%
```

Run 9: Report of TCP BBR — Data Link

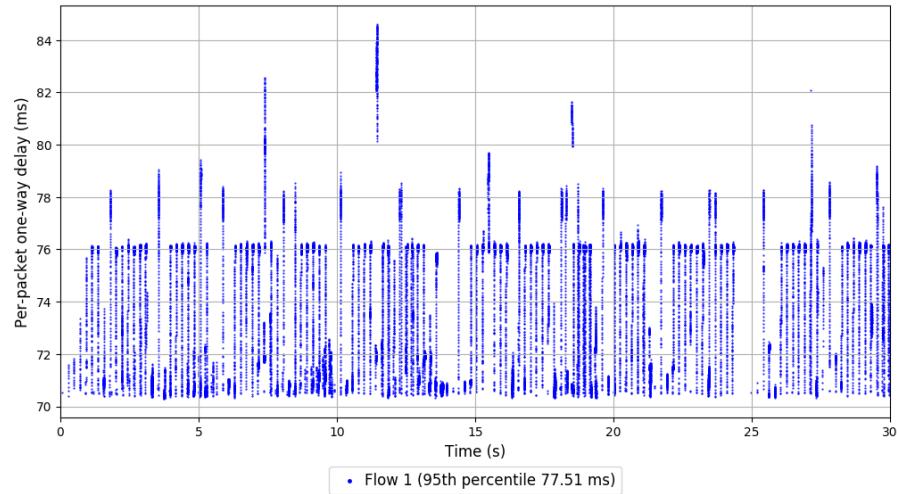
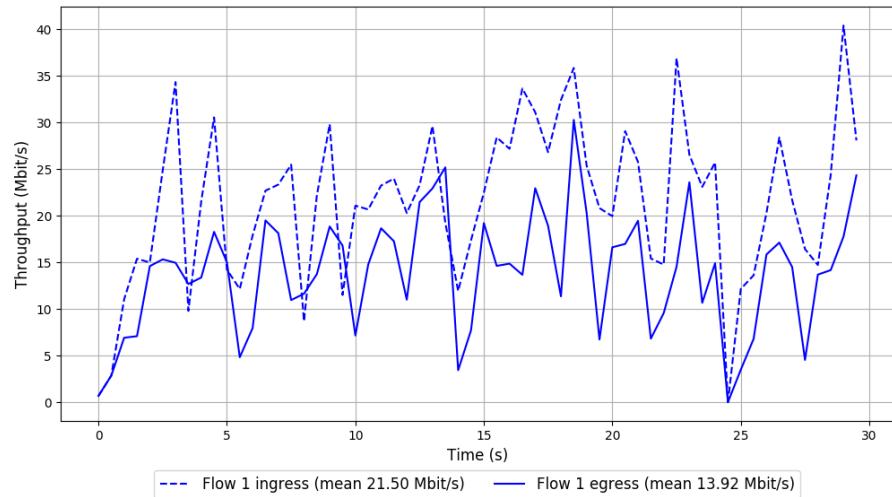


Run 10: Statistics of TCP BBR

```
Start at: Mon, 24 Jul 2017 22:56:24 +0000
End at: Mon, 24 Jul 2017 22:56:54 +0000
Local clock offset: 1.389 ms
Remote clock offset: 8.259 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:37:25 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.92 Mbit/s
95th percentile per-packet one-way delay: 77.508 ms
Loss rate: 35.27%
-- Flow 1:
Average throughput: 13.92 Mbit/s
95th percentile per-packet one-way delay: 77.508 ms
Loss rate: 35.27%
```

Run 10: Report of TCP BBR — Data Link



```
Run 1: Statistics of CalibratedKoho
```

```
Start at: Mon, 24 Jul 2017 20:12:55 +0000
```

```
End at: Mon, 24 Jul 2017 20:13:25 +0000
```

```
Local clock offset: -1.326 ms
```

```
Remote clock offset: 6.578 ms
```

```
# Below is generated by plot.py at Tue, 25 Jul 2017 02:37:29 +0000
```

```
# Datalink statistics
```

```
-- Total of 1 flow:
```

```
Average throughput: 49.85 Mbit/s
```

```
95th percentile per-packet one-way delay: 74.259 ms
```

```
Loss rate: 3.08%
```

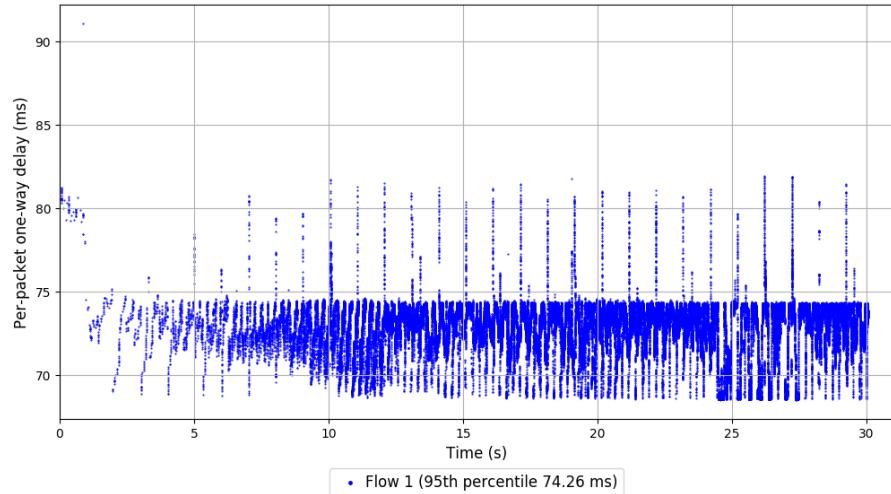
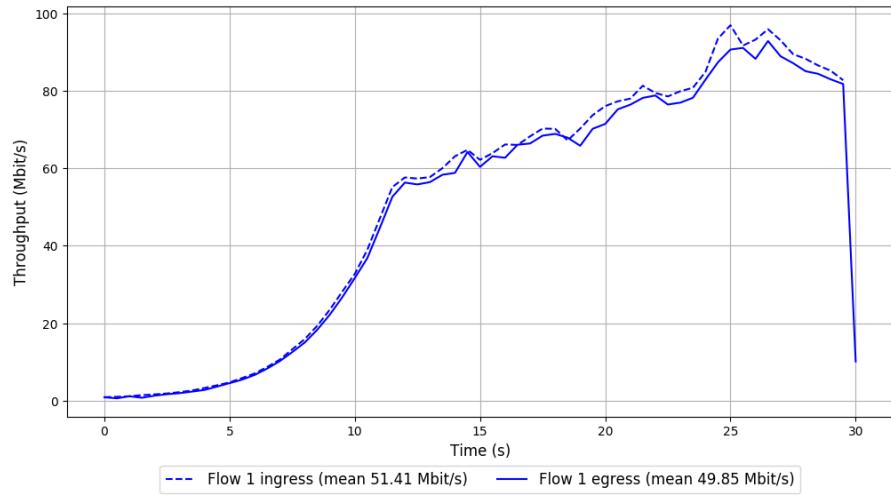
```
-- Flow 1:
```

```
Average throughput: 49.85 Mbit/s
```

```
95th percentile per-packet one-way delay: 74.259 ms
```

```
Loss rate: 3.08%
```

Run 1: Report of CalibratedKoho — Data Link



```
Run 2: Statistics of CalibratedKoho
```

```
Start at: Mon, 24 Jul 2017 20:32:05 +0000
```

```
End at: Mon, 24 Jul 2017 20:32:35 +0000
```

```
Local clock offset: -1.368 ms
```

```
Remote clock offset: 8.207 ms
```

```
# Below is generated by plot.py at Tue, 25 Jul 2017 02:37:33 +0000
```

```
# Datalink statistics
```

```
-- Total of 1 flow:
```

```
Average throughput: 56.91 Mbit/s
```

```
95th percentile per-packet one-way delay: 76.676 ms
```

```
Loss rate: 3.92%
```

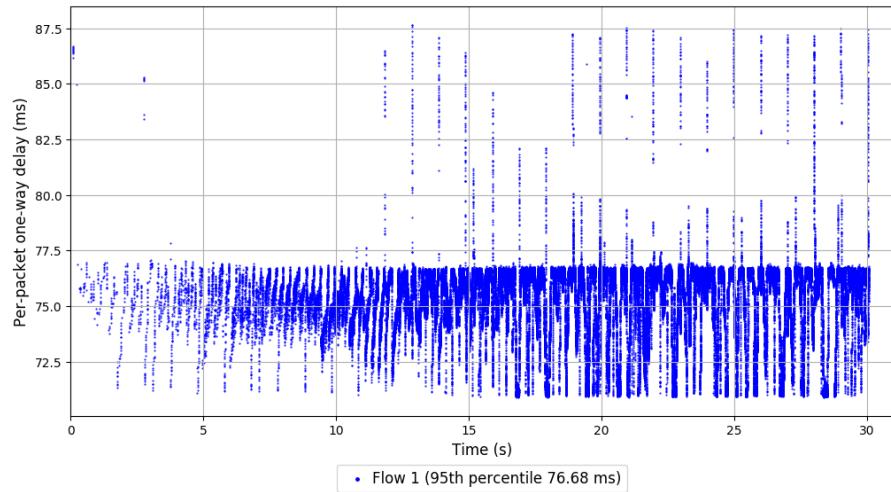
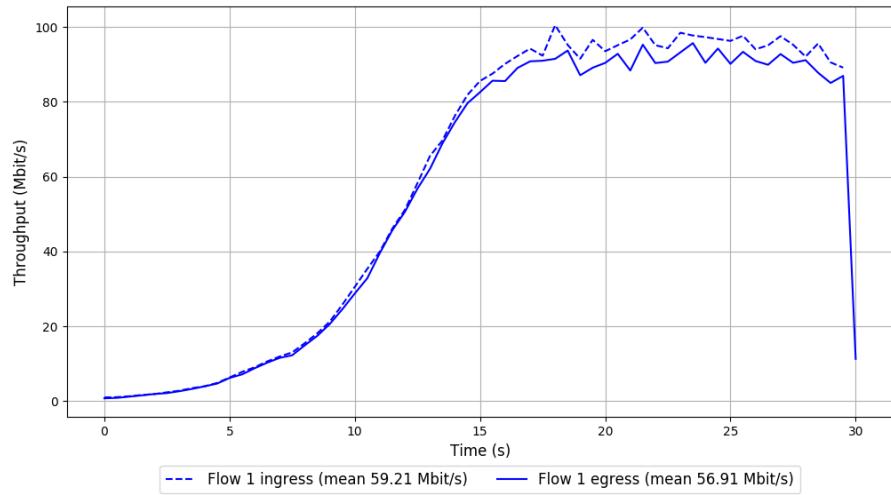
```
-- Flow 1:
```

```
Average throughput: 56.91 Mbit/s
```

```
95th percentile per-packet one-way delay: 76.676 ms
```

```
Loss rate: 3.92%
```

Run 2: Report of CalibratedKoho — Data Link

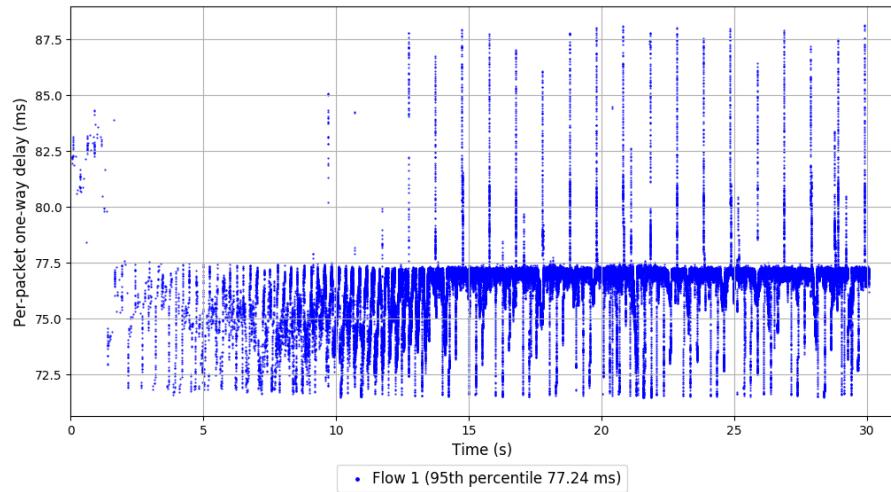
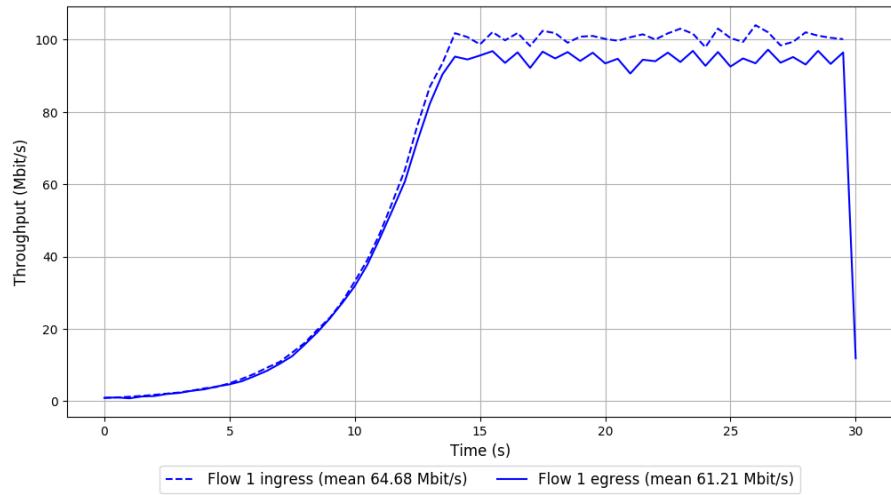


```
Run 3: Statistics of CalibratedKoho
```

```
Start at: Mon, 24 Jul 2017 20:51:10 +0000
End at: Mon, 24 Jul 2017 20:51:40 +0000
Local clock offset: -1.163 ms
Remote clock offset: 8.321 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:37:38 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.21 Mbit/s
95th percentile per-packet one-way delay: 77.239 ms
Loss rate: 5.38%
-- Flow 1:
Average throughput: 61.21 Mbit/s
95th percentile per-packet one-way delay: 77.239 ms
Loss rate: 5.38%
```

Run 3: Report of CalibratedKoho — Data Link

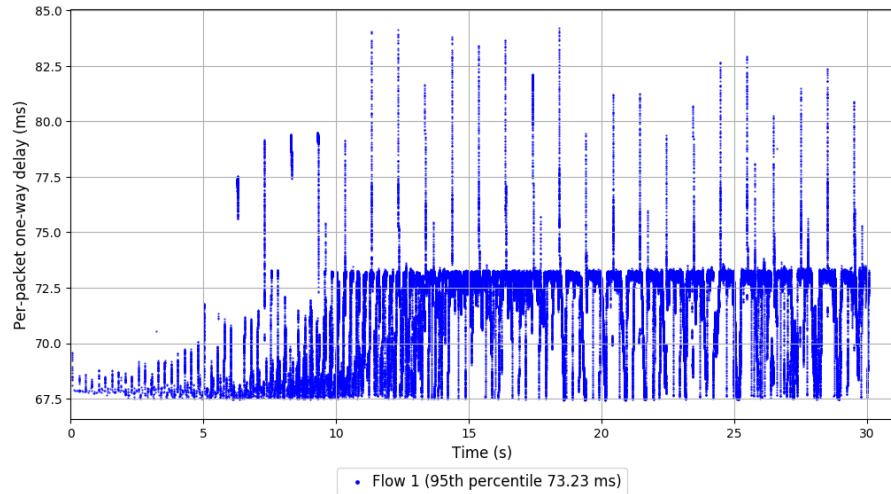
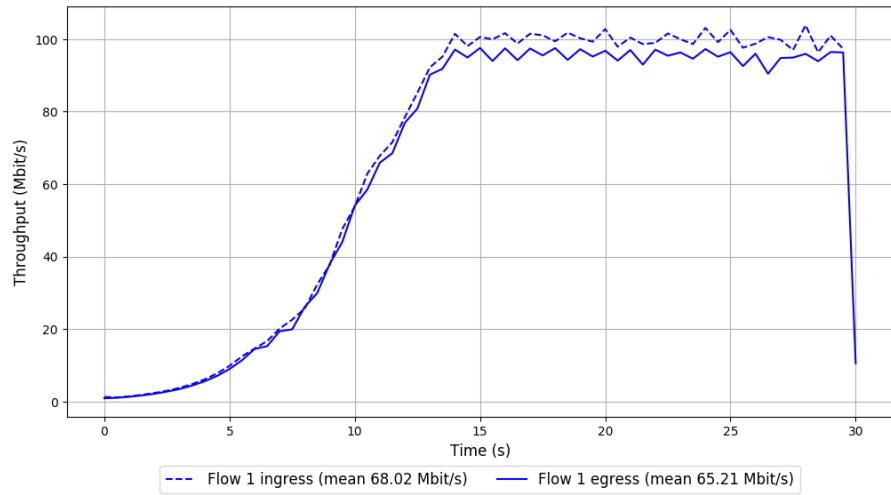


Run 4: Statistics of CalibratedKoho

```
Start at: Mon, 24 Jul 2017 21:10:17 +0000
End at: Mon, 24 Jul 2017 21:10:47 +0000
Local clock offset: 0.141 ms
Remote clock offset: 7.433 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:37:42 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.21 Mbit/s
95th percentile per-packet one-way delay: 73.226 ms
Loss rate: 4.12%
-- Flow 1:
Average throughput: 65.21 Mbit/s
95th percentile per-packet one-way delay: 73.226 ms
Loss rate: 4.12%
```

Run 4: Report of CalibratedKoho — Data Link

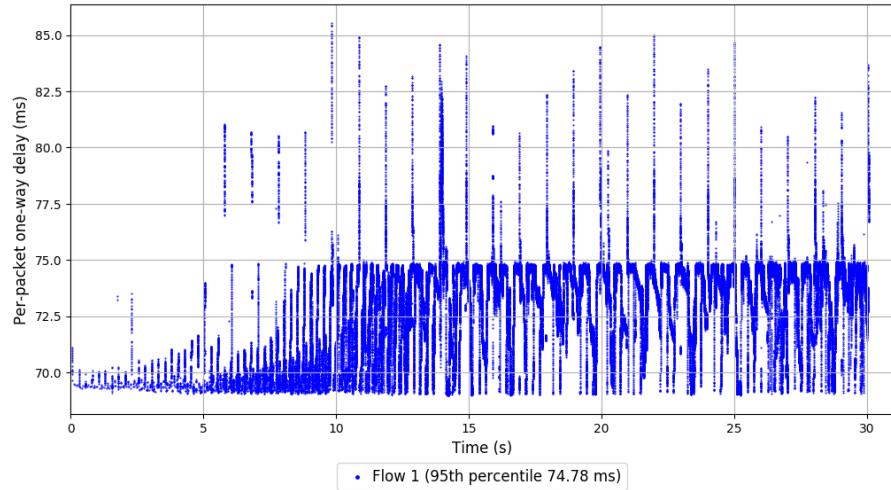
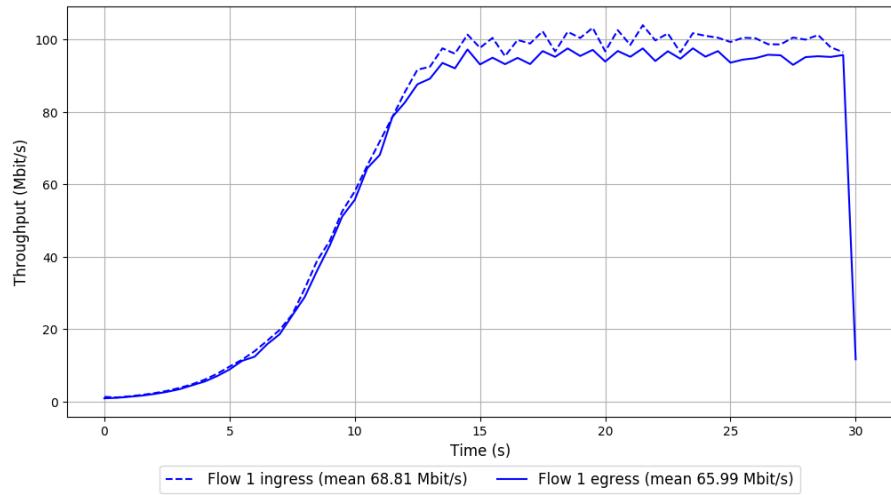


```
Run 5: Statistics of CalibratedKoho
```

```
Start at: Mon, 24 Jul 2017 21:29:34 +0000
End at: Mon, 24 Jul 2017 21:30:04 +0000
Local clock offset: -0.961 ms
Remote clock offset: 6.659 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:37:47 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.99 Mbit/s
95th percentile per-packet one-way delay: 74.785 ms
Loss rate: 4.07%
-- Flow 1:
Average throughput: 65.99 Mbit/s
95th percentile per-packet one-way delay: 74.785 ms
Loss rate: 4.07%
```

Run 5: Report of CalibratedKoho — Data Link

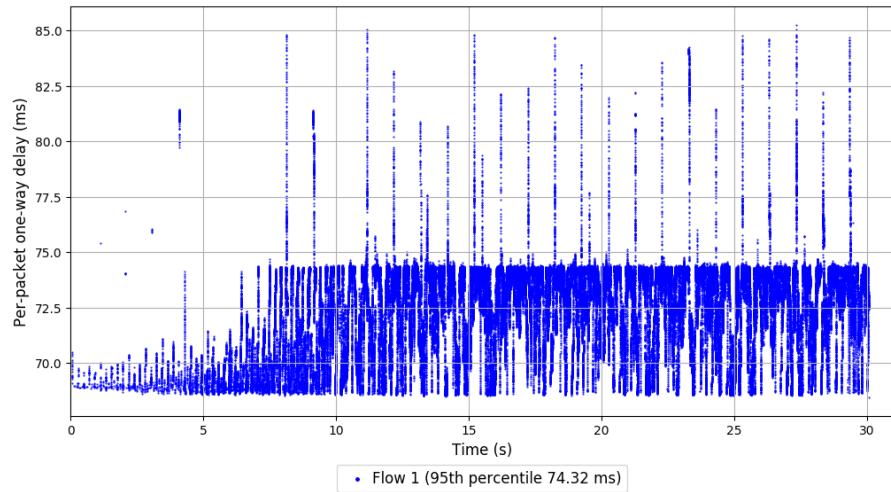
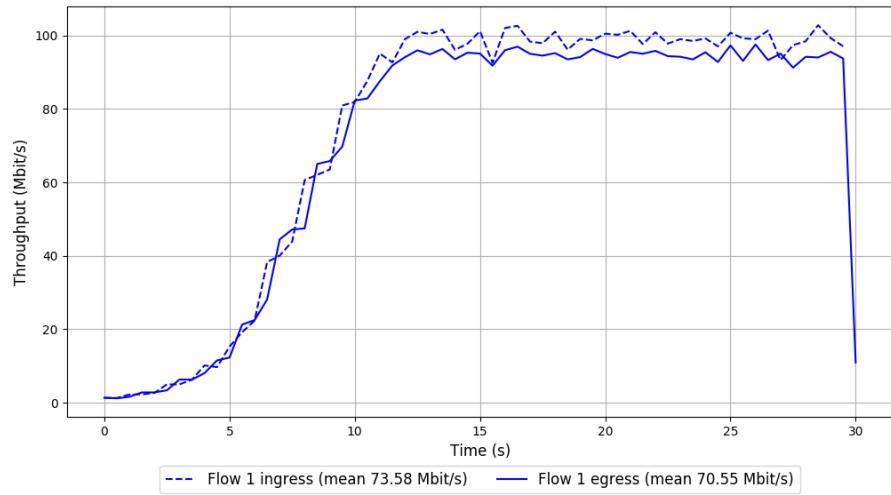


Run 6: Statistics of CalibratedKoho

```
Start at: Mon, 24 Jul 2017 21:50:31 +0000
End at: Mon, 24 Jul 2017 21:51:01 +0000
Local clock offset: -0.661 ms
Remote clock offset: 7.156 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:37:51 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.55 Mbit/s
95th percentile per-packet one-way delay: 74.318 ms
Loss rate: 4.12%
-- Flow 1:
Average throughput: 70.55 Mbit/s
95th percentile per-packet one-way delay: 74.318 ms
Loss rate: 4.12%
```

Run 6: Report of CalibratedKoho — Data Link

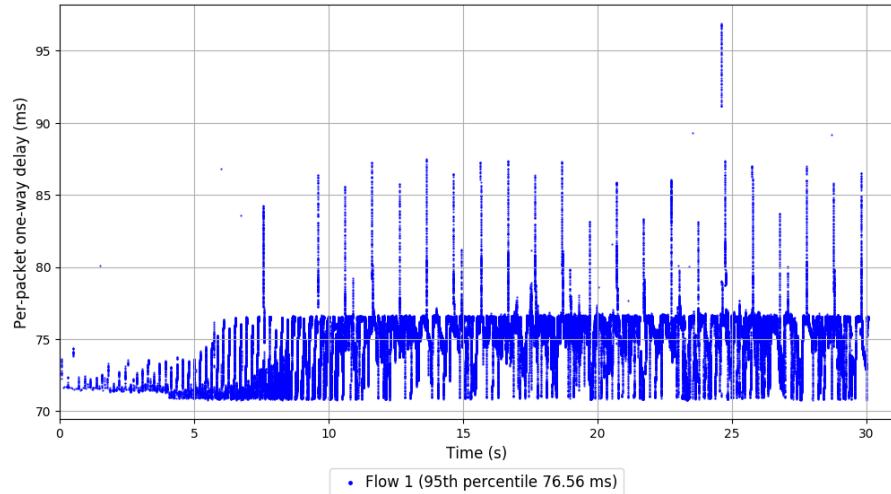
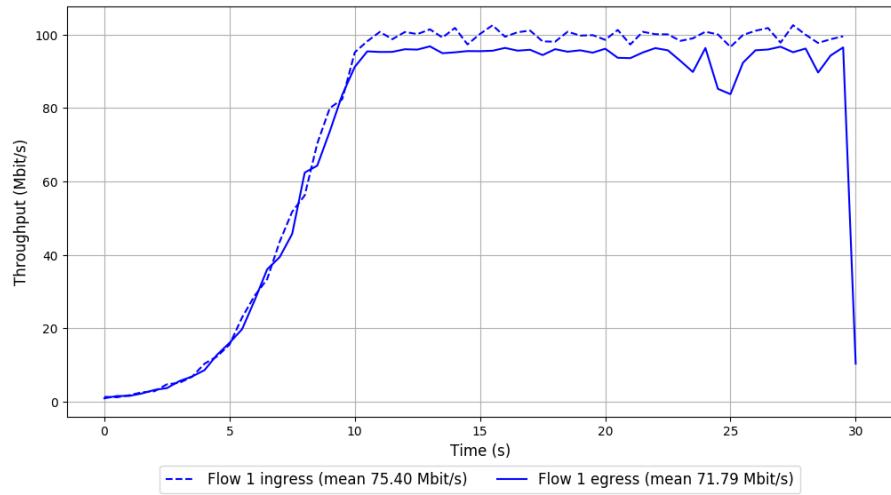


Run 7: Statistics of CalibratedKoho

```
Start at: Mon, 24 Jul 2017 22:09:43 +0000
End at: Mon, 24 Jul 2017 22:10:13 +0000
Local clock offset: 0.812 ms
Remote clock offset: 8.131 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:37:58 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.79 Mbit/s
95th percentile per-packet one-way delay: 76.558 ms
Loss rate: 4.77%
-- Flow 1:
Average throughput: 71.79 Mbit/s
95th percentile per-packet one-way delay: 76.558 ms
Loss rate: 4.77%
```

Run 7: Report of CalibratedKoho — Data Link

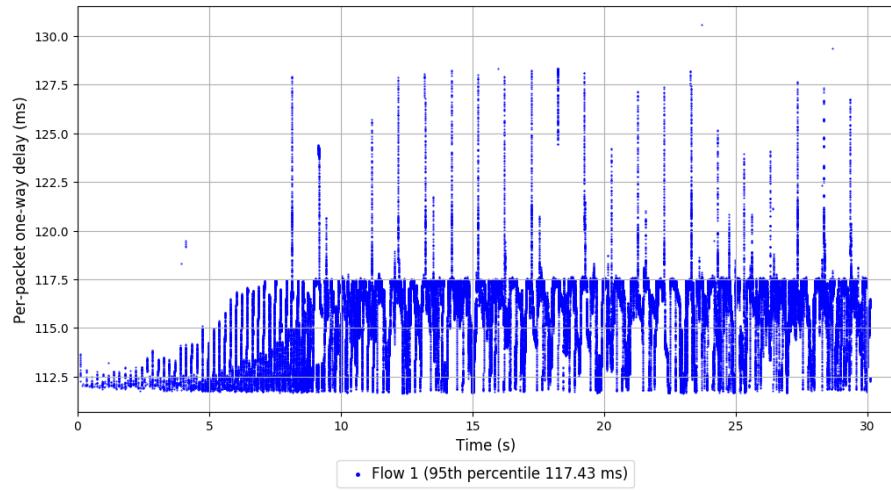
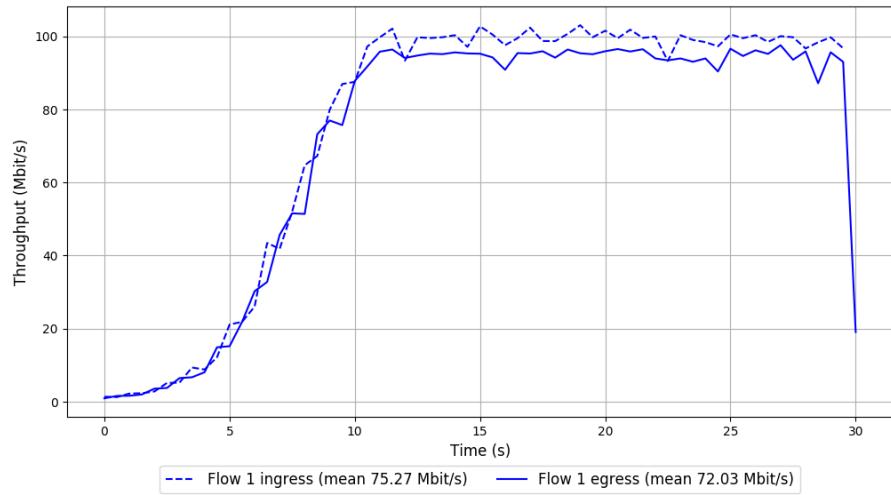


Run 8: Statistics of CalibratedKoho

```
Start at: Mon, 24 Jul 2017 22:29:36 +0000
End at: Mon, 24 Jul 2017 22:30:06 +0000
Local clock offset: -0.169 ms
Remote clock offset: 51.869 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:38:01 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.03 Mbit/s
95th percentile per-packet one-way delay: 117.427 ms
Loss rate: 4.31%
-- Flow 1:
Average throughput: 72.03 Mbit/s
95th percentile per-packet one-way delay: 117.427 ms
Loss rate: 4.31%
```

Run 8: Report of CalibratedKoho — Data Link

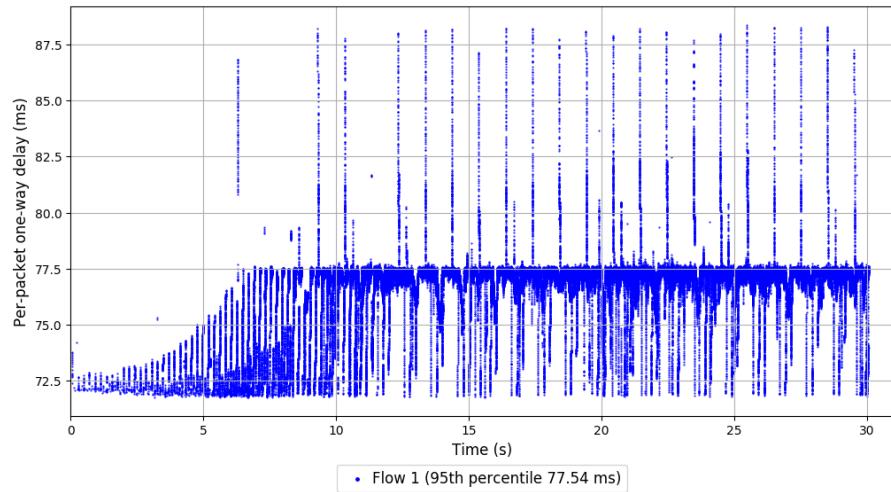
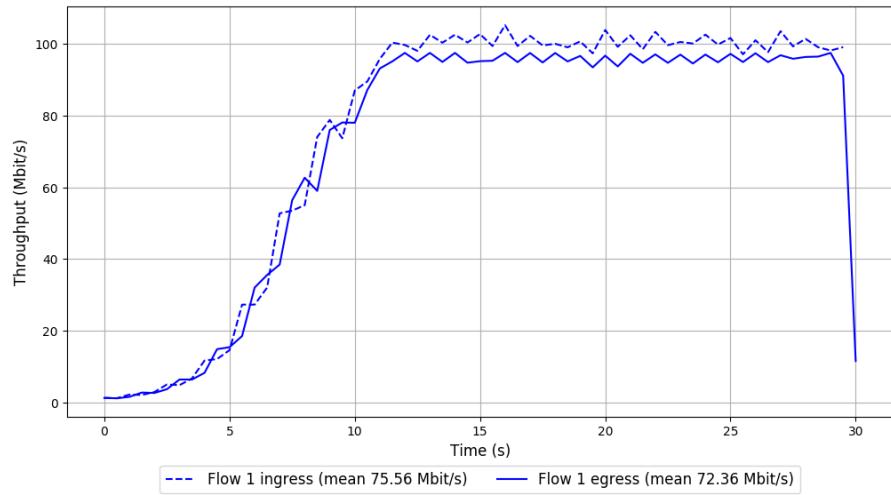


Run 9: Statistics of CalibratedKoho

```
Start at: Mon, 24 Jul 2017 22:48:40 +0000
End at: Mon, 24 Jul 2017 22:49:10 +0000
Local clock offset: -0.06 ms
Remote clock offset: 8.649 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:38:10 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.36 Mbit/s
95th percentile per-packet one-way delay: 77.537 ms
Loss rate: 4.23%
-- Flow 1:
Average throughput: 72.36 Mbit/s
95th percentile per-packet one-way delay: 77.537 ms
Loss rate: 4.23%
```

Run 9: Report of CalibratedKoho — Data Link



```
Run 10: Statistics of CalibratedKoho
```

```
Start at: Mon, 24 Jul 2017 23:07:38 +0000
```

```
End at: Mon, 24 Jul 2017 23:08:08 +0000
```

```
Local clock offset: -0.027 ms
```

```
Remote clock offset: 7.898 ms
```

```
# Below is generated by plot.py at Tue, 25 Jul 2017 02:38:12 +0000
```

```
# Datalink statistics
```

```
-- Total of 1 flow:
```

```
Average throughput: 71.53 Mbit/s
```

```
95th percentile per-packet one-way delay: 74.990 ms
```

```
Loss rate: 4.75%
```

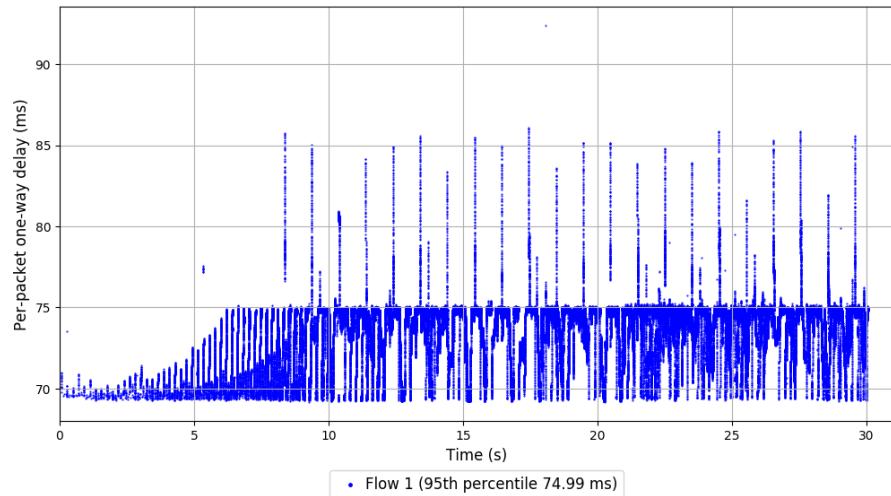
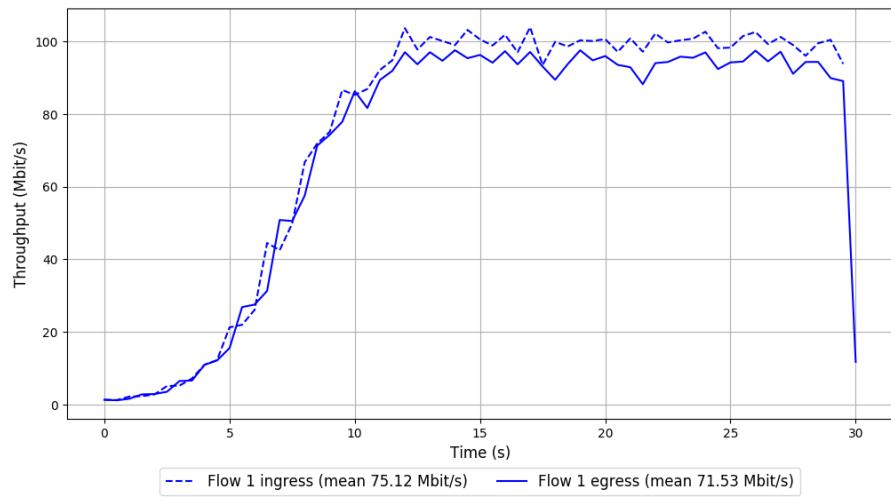
```
-- Flow 1:
```

```
Average throughput: 71.53 Mbit/s
```

```
95th percentile per-packet one-way delay: 74.990 ms
```

```
Loss rate: 4.75%
```

Run 10: Report of CalibratedKoho — Data Link

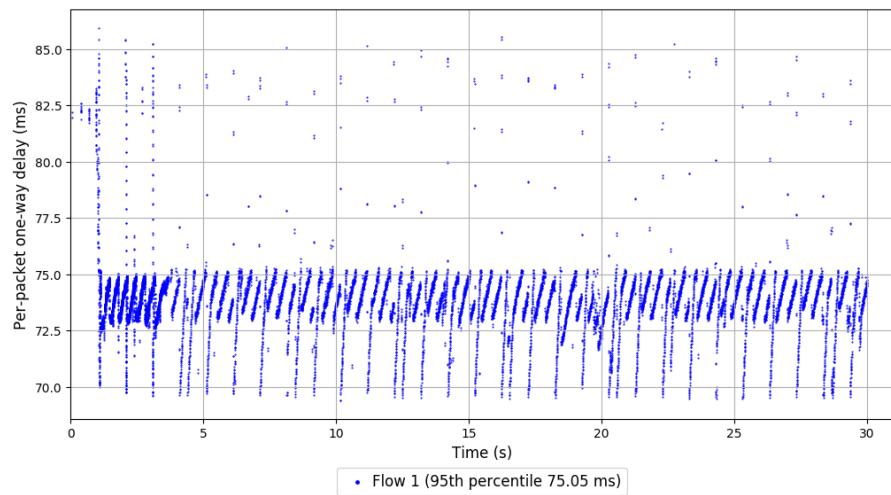
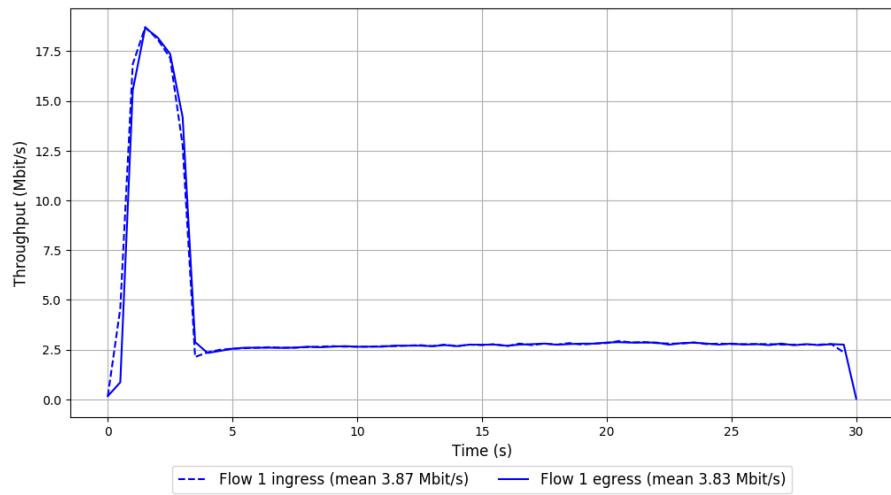


Run 1: Statistics of Copa

```
Start at: Mon, 24 Jul 2017 20:07:53 +0000
End at: Mon, 24 Jul 2017 20:08:23 +0000
Local clock offset: -0.093 ms
Remote clock offset: 4.746 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:38:12 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.83 Mbit/s
95th percentile per-packet one-way delay: 75.047 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 3.83 Mbit/s
95th percentile per-packet one-way delay: 75.047 ms
Loss rate: 1.07%
```

Run 1: Report of Copa — Data Link

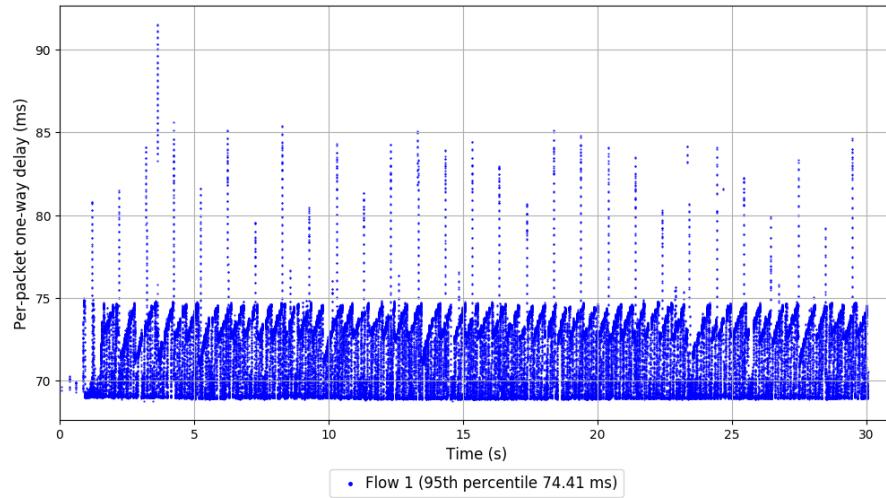
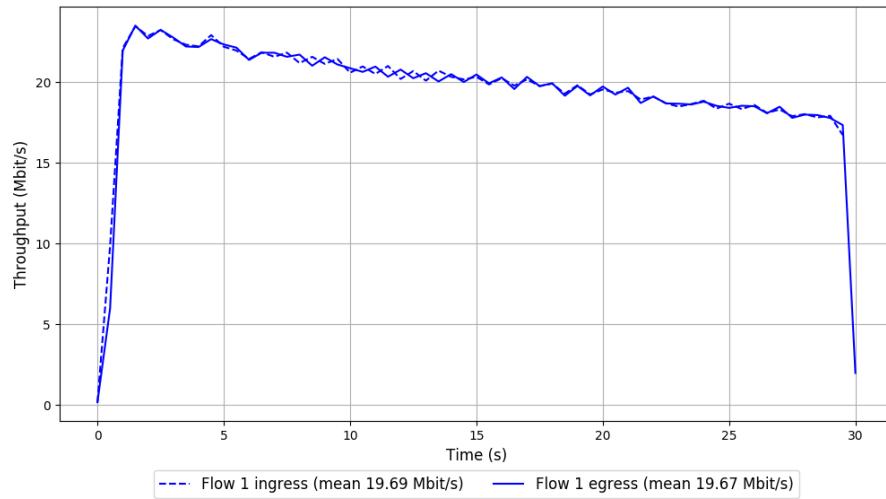


Run 2: Statistics of Copa

```
Start at: Mon, 24 Jul 2017 20:27:00 +0000
End at: Mon, 24 Jul 2017 20:27:30 +0000
Local clock offset: -1.335 ms
Remote clock offset: 8.792 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:38:17 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 19.67 Mbit/s
95th percentile per-packet one-way delay: 74.412 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 19.67 Mbit/s
95th percentile per-packet one-way delay: 74.412 ms
Loss rate: 0.15%
```

Run 2: Report of Copa — Data Link

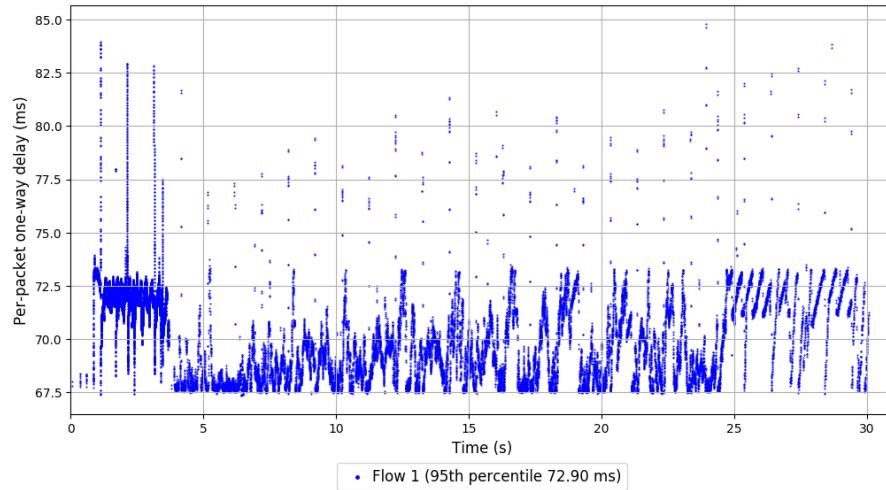
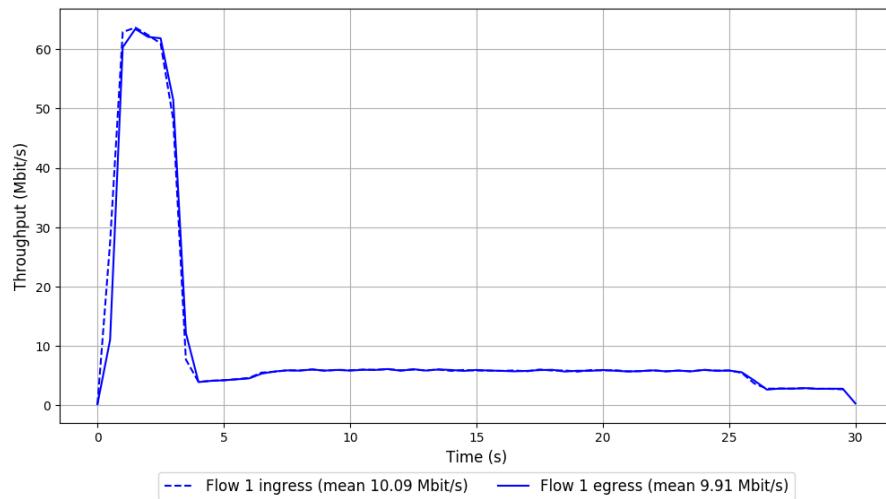


Run 3: Statistics of Copa

```
Start at: Mon, 24 Jul 2017 20:46:04 +0000
End at: Mon, 24 Jul 2017 20:46:35 +0000
Local clock offset: 0.115 ms
Remote clock offset: 8.26 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:38:17 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.91 Mbit/s
95th percentile per-packet one-way delay: 72.896 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 9.91 Mbit/s
95th percentile per-packet one-way delay: 72.896 ms
Loss rate: 1.79%
```

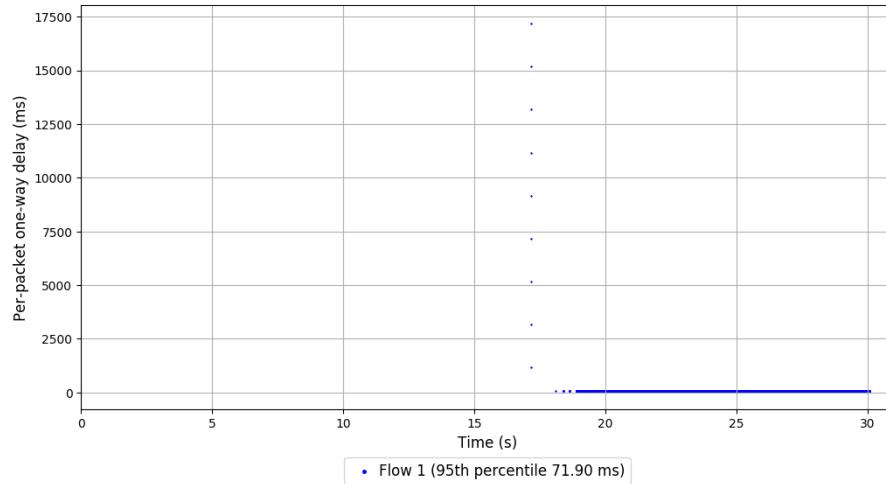
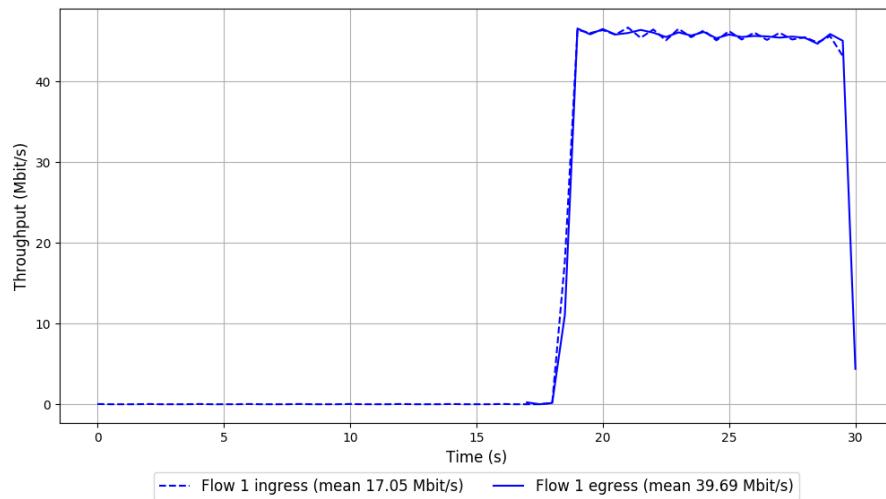
Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: Mon, 24 Jul 2017 21:05:12 +0000
End at: Mon, 24 Jul 2017 21:05:42 +0000
Local clock offset: 0.016 ms
Remote clock offset: 7.585 ms

Run 4: Report of Copa — Data Link

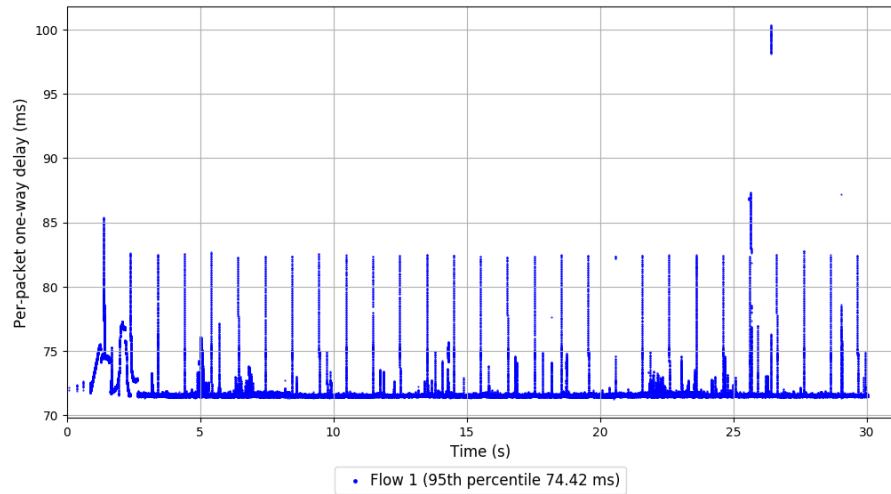
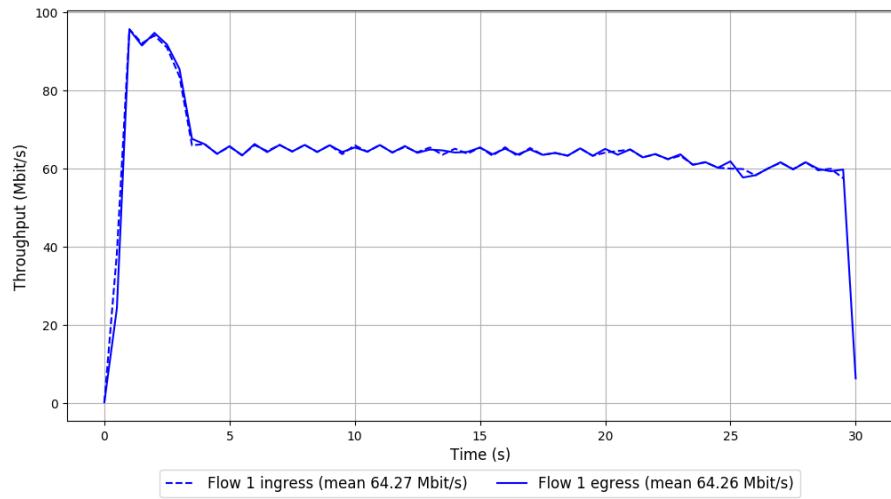


Run 5: Statistics of Copa

```
Start at: Mon, 24 Jul 2017 21:24:25 +0000
End at: Mon, 24 Jul 2017 21:24:55 +0000
Local clock offset: -1.003 ms
Remote clock offset: 6.733 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:38:34 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.26 Mbit/s
95th percentile per-packet one-way delay: 74.425 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 64.26 Mbit/s
95th percentile per-packet one-way delay: 74.425 ms
Loss rate: 0.03%
```

Run 5: Report of Copa — Data Link

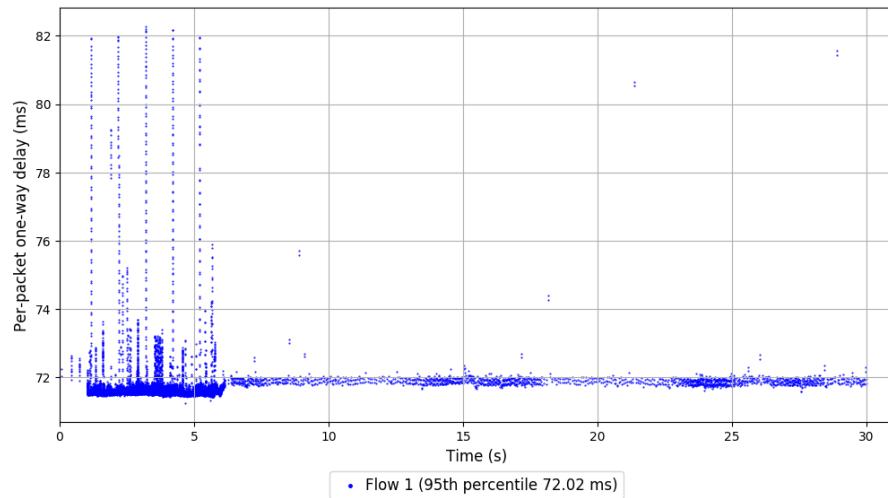
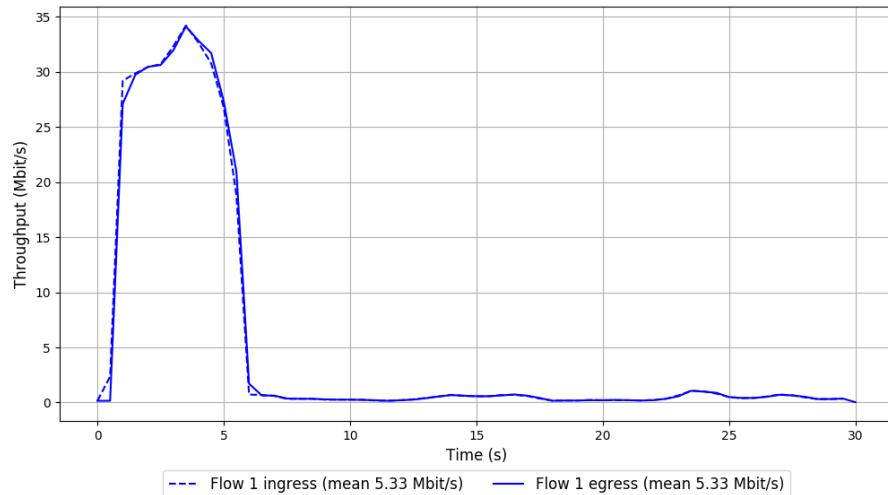


Run 6: Statistics of Copa

```
Start at: Mon, 24 Jul 2017 21:45:04 +0000
End at: Mon, 24 Jul 2017 21:45:35 +0000
Local clock offset: -0.736 ms
Remote clock offset: 7.044 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:38:34 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.33 Mbit/s
95th percentile per-packet one-way delay: 72.023 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.33 Mbit/s
95th percentile per-packet one-way delay: 72.023 ms
Loss rate: 0.00%
```

Run 6: Report of Copa — Data Link

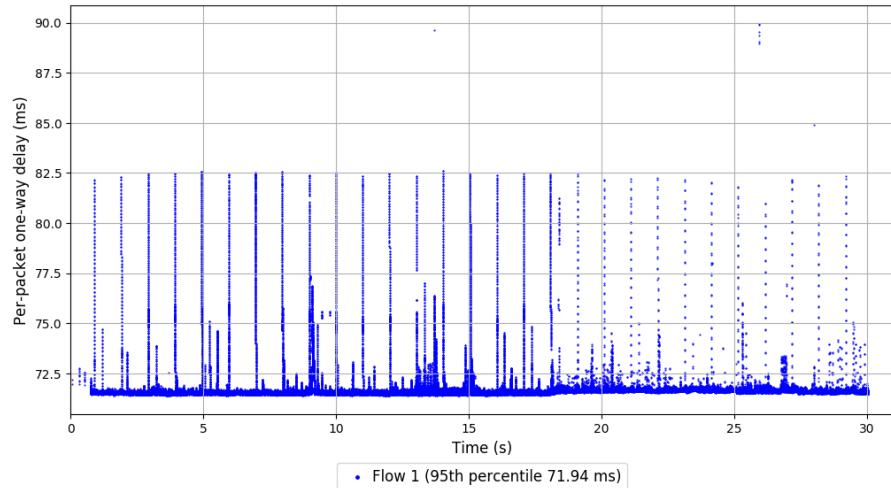
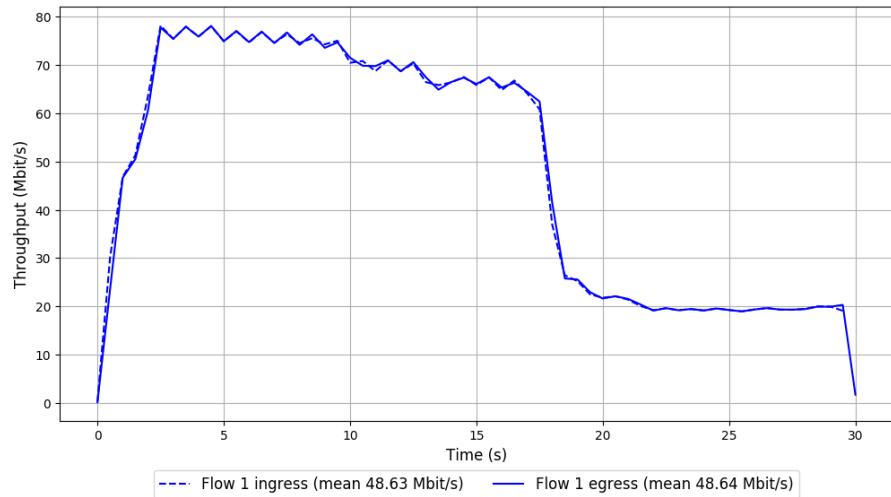


Run 7: Statistics of Copa

```
Start at: Mon, 24 Jul 2017 22:04:41 +0000
End at: Mon, 24 Jul 2017 22:05:11 +0000
Local clock offset: -0.493 ms
Remote clock offset: 7.653 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:38:34 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 48.64 Mbit/s
95th percentile per-packet one-way delay: 71.943 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.64 Mbit/s
95th percentile per-packet one-way delay: 71.943 ms
Loss rate: 0.00%
```

Run 7: Report of Copa — Data Link

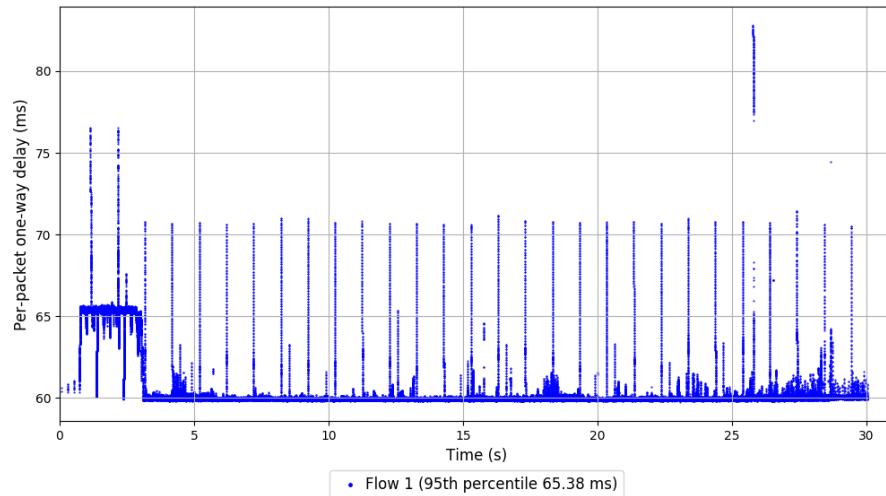
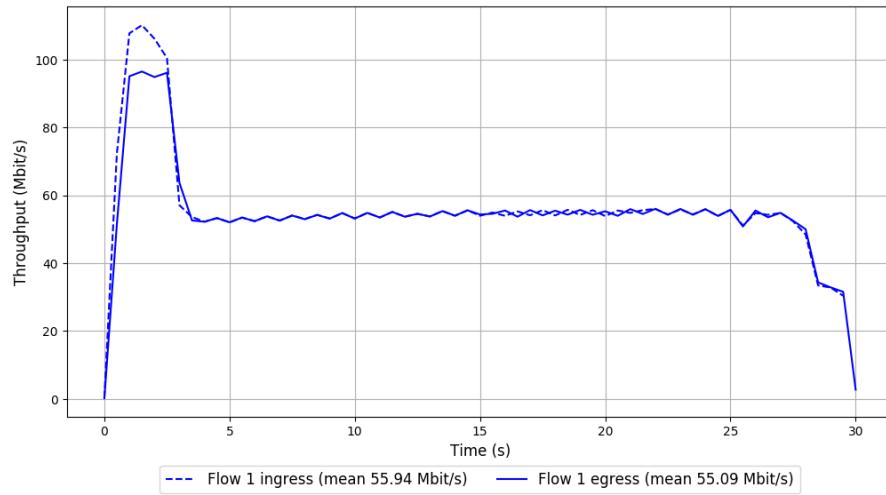


Run 8: Statistics of Copa

```
Start at: Mon, 24 Jul 2017 22:24:34 +0000
End at: Mon, 24 Jul 2017 22:25:04 +0000
Local clock offset: -0.252 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:38:48 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.09 Mbit/s
95th percentile per-packet one-way delay: 65.376 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 55.09 Mbit/s
95th percentile per-packet one-way delay: 65.376 ms
Loss rate: 1.53%
```

Run 8: Report of Copa — Data Link

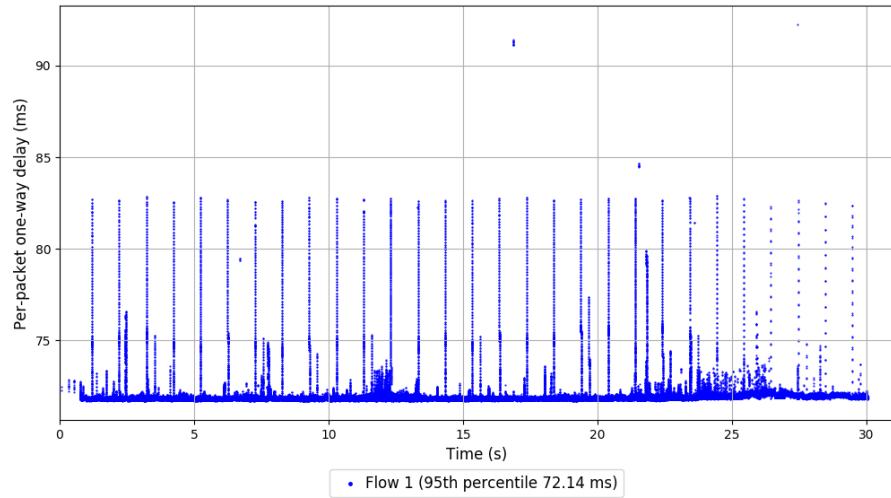
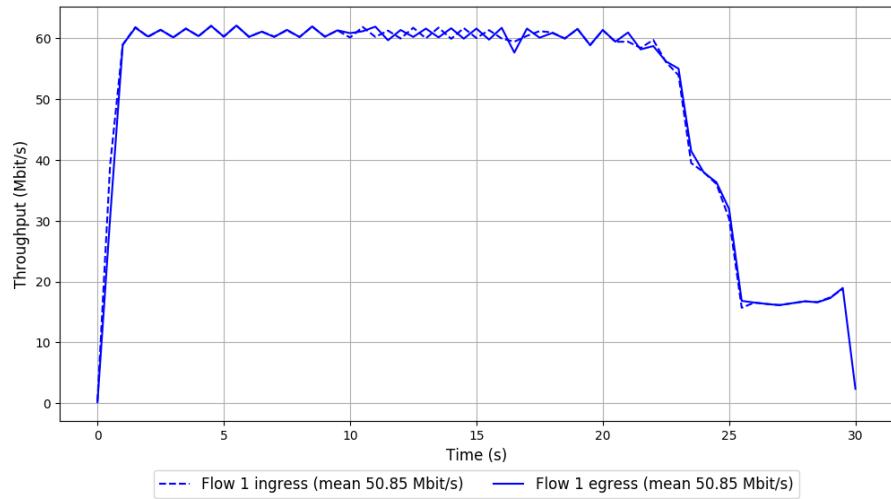


Run 9: Statistics of Copa

```
Start at: Mon, 24 Jul 2017 22:43:38 +0000
End at: Mon, 24 Jul 2017 22:44:08 +0000
Local clock offset: -0.081 ms
Remote clock offset: 8.801 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:38:48 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.85 Mbit/s
95th percentile per-packet one-way delay: 72.136 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.85 Mbit/s
95th percentile per-packet one-way delay: 72.136 ms
Loss rate: 0.00%
```

Run 9: Report of Copa — Data Link

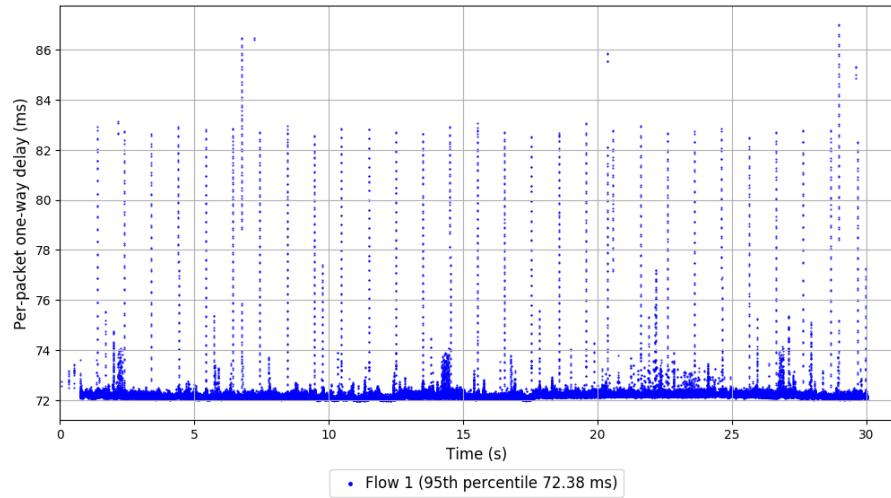
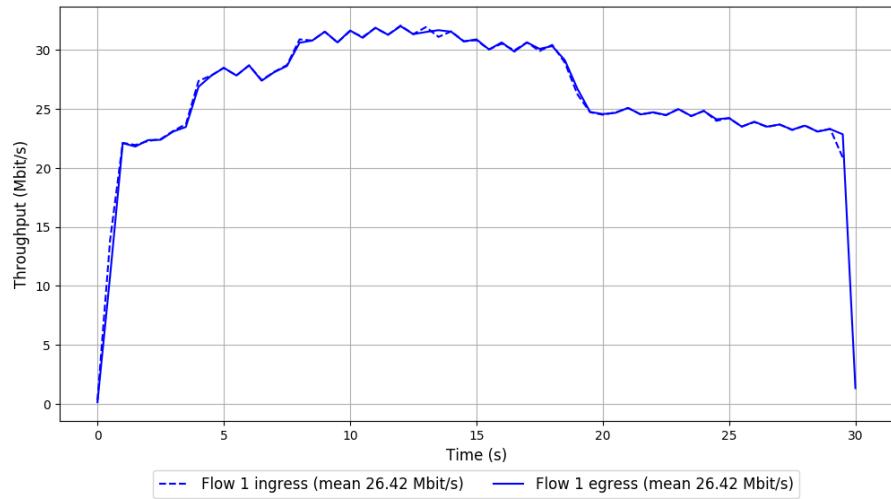


Run 10: Statistics of Copa

```
Start at: Mon, 24 Jul 2017 23:02:39 +0000
End at: Mon, 24 Jul 2017 23:03:09 +0000
Local clock offset: -0.068 ms
Remote clock offset: 8.024 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:38:56 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.42 Mbit/s
95th percentile per-packet one-way delay: 72.383 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 26.42 Mbit/s
95th percentile per-packet one-way delay: 72.383 ms
Loss rate: 0.01%
```

Run 10: Report of Copa — Data Link

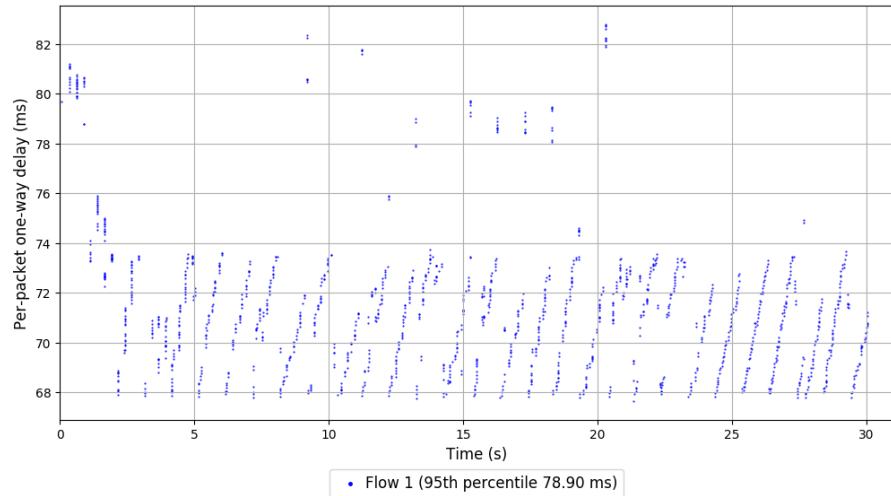
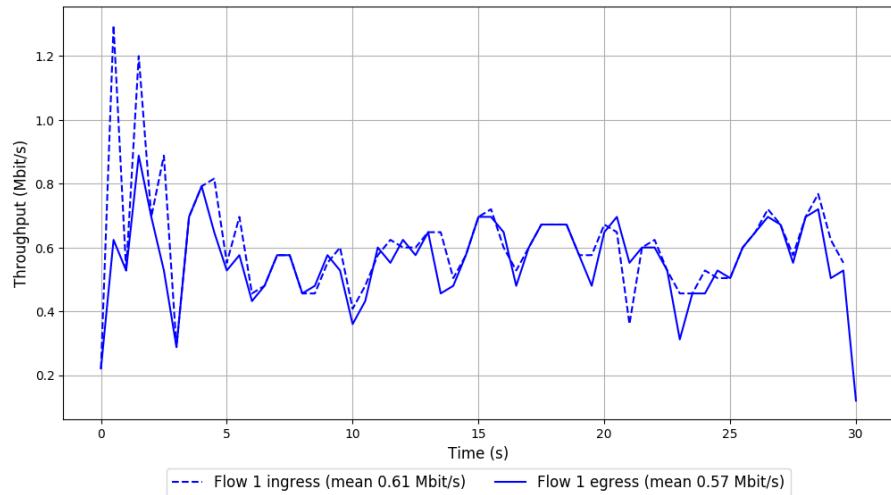


Run 1: Statistics of TCP Cubic

```
Start at: Mon, 24 Jul 2017 20:18:04 +0000
End at: Mon, 24 Jul 2017 20:18:34 +0000
Local clock offset: -0.185 ms
Remote clock offset: 7.292 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:38:56 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 78.899 ms
Loss rate: 6.31%
-- Flow 1:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 78.899 ms
Loss rate: 6.31%
```

Run 1: Report of TCP Cubic — Data Link

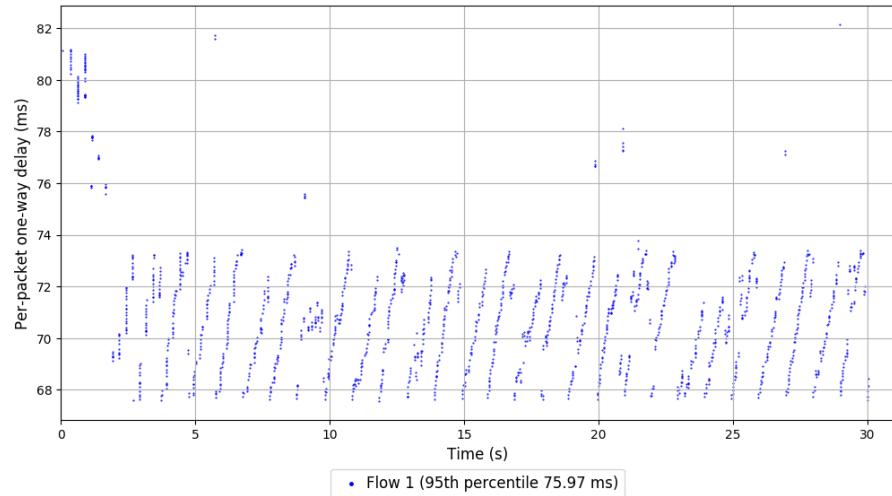
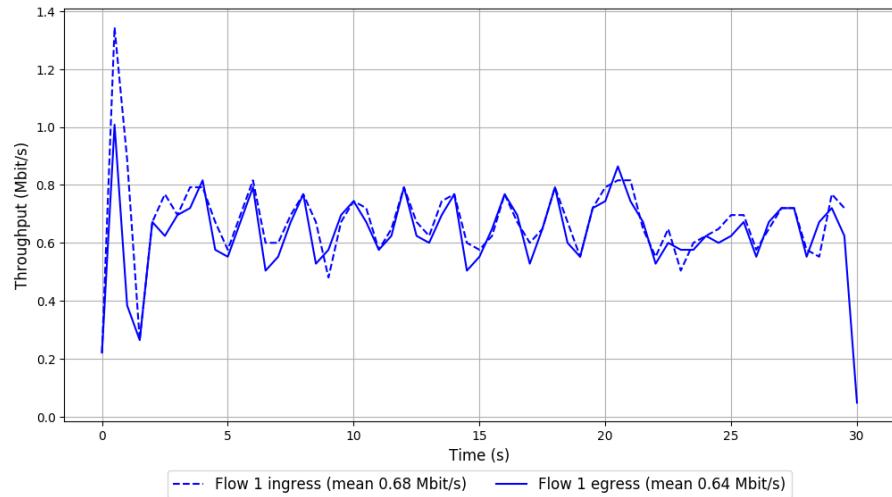


Run 2: Statistics of TCP Cubic

```
Start at: Mon, 24 Jul 2017 20:37:14 +0000
End at: Mon, 24 Jul 2017 20:37:44 +0000
Local clock offset: -1.287 ms
Remote clock offset: 7.218 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:38:56 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 75.967 ms
Loss rate: 4.98%
-- Flow 1:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 75.967 ms
Loss rate: 4.98%
```

Run 2: Report of TCP Cubic — Data Link

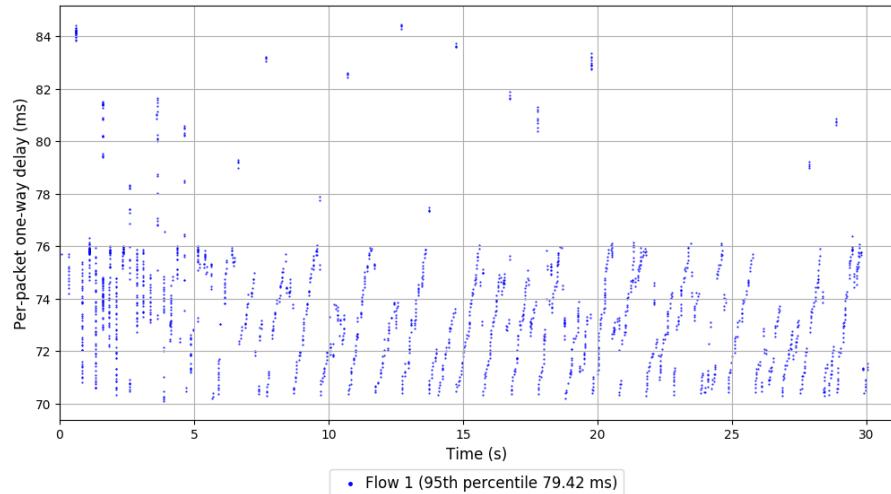
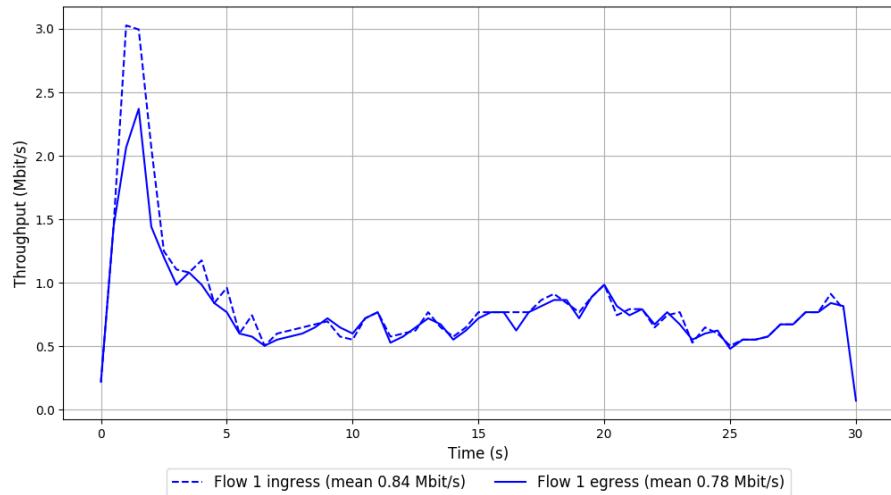


Run 3: Statistics of TCP Cubic

```
Start at: Mon, 24 Jul 2017 20:56:20 +0000
End at: Mon, 24 Jul 2017 20:56:50 +0000
Local clock offset: 0.207 ms
Remote clock offset: 10.436 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:38:56 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 79.419 ms
Loss rate: 6.76%
-- Flow 1:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 79.419 ms
Loss rate: 6.76%
```

Run 3: Report of TCP Cubic — Data Link

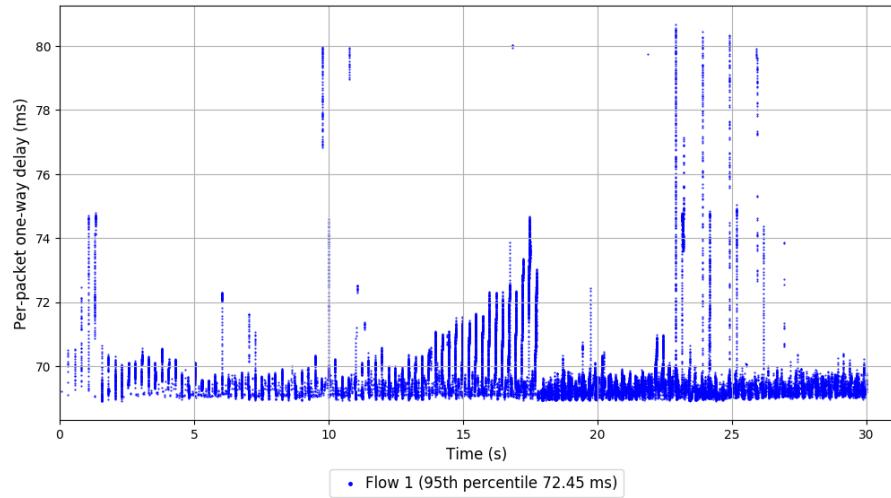
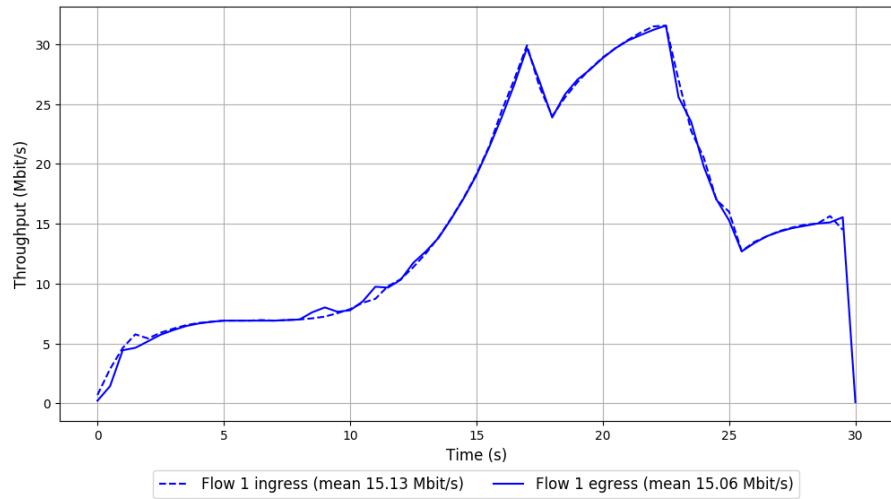


Run 4: Statistics of TCP Cubic

```
Start at: Mon, 24 Jul 2017 21:15:30 +0000
End at: Mon, 24 Jul 2017 21:16:00 +0000
Local clock offset: -1.022 ms
Remote clock offset: 7.116 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:38:56 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.06 Mbit/s
95th percentile per-packet one-way delay: 72.447 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 15.06 Mbit/s
95th percentile per-packet one-way delay: 72.447 ms
Loss rate: 0.47%
```

Run 4: Report of TCP Cubic — Data Link

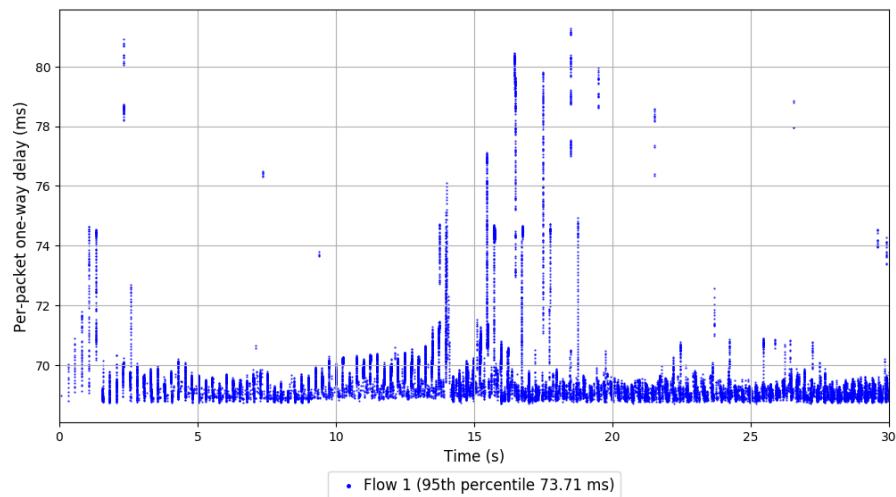
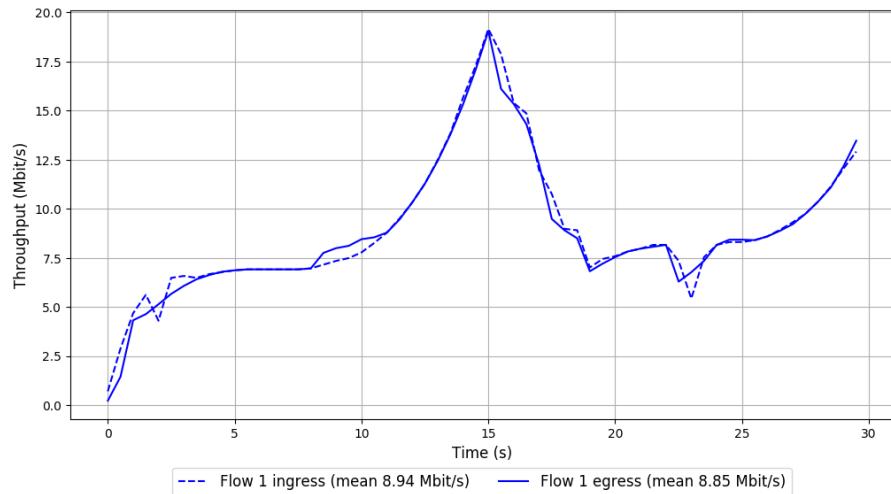


Run 5: Statistics of TCP Cubic

```
Start at: Mon, 24 Jul 2017 21:34:47 +0000
End at: Mon, 24 Jul 2017 21:35:17 +0000
Local clock offset: -0.896 ms
Remote clock offset: 6.728 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:38:56 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.85 Mbit/s
95th percentile per-packet one-way delay: 73.708 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 8.85 Mbit/s
95th percentile per-packet one-way delay: 73.708 ms
Loss rate: 1.00%
```

Run 5: Report of TCP Cubic — Data Link

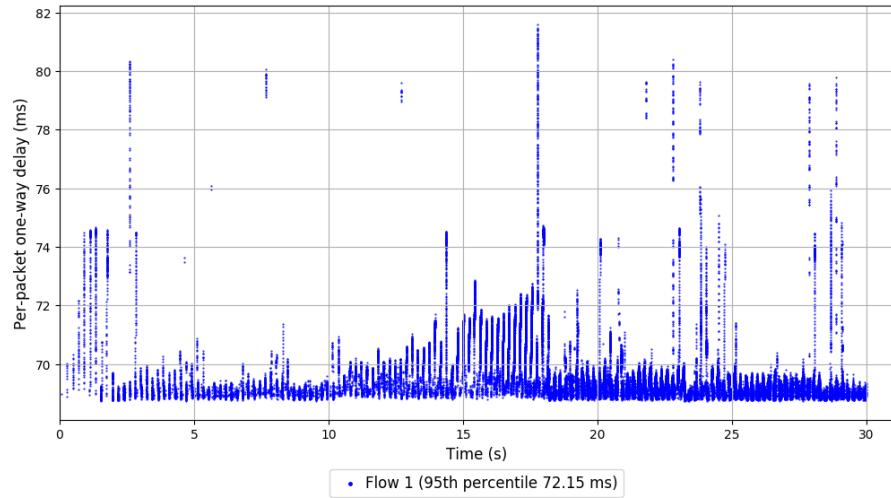
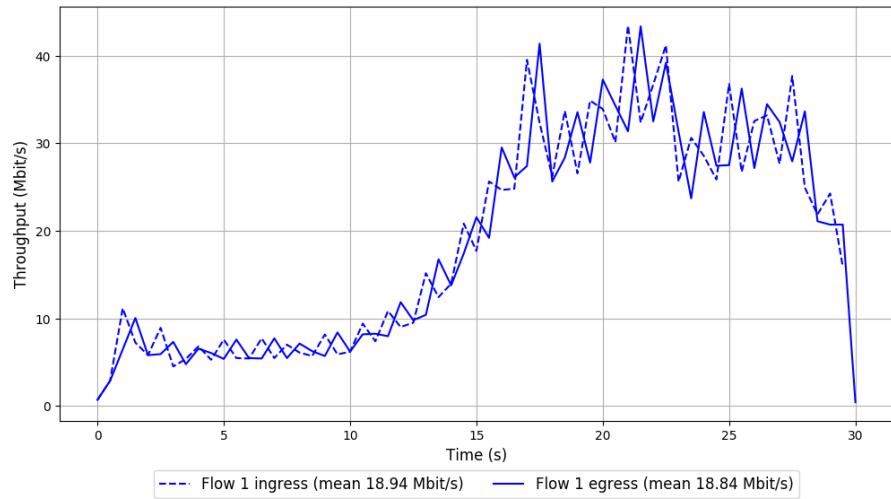


Run 6: Statistics of TCP Cubic

```
Start at: Mon, 24 Jul 2017 21:55:46 +0000
End at: Mon, 24 Jul 2017 21:56:16 +0000
Local clock offset: -0.68 ms
Remote clock offset: 7.48 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:38:58 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 18.84 Mbit/s
95th percentile per-packet one-way delay: 72.146 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 18.84 Mbit/s
95th percentile per-packet one-way delay: 72.146 ms
Loss rate: 0.49%
```

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: Mon, 24 Jul 2017 22:14:52 +0000

End at: Mon, 24 Jul 2017 22:15:22 +0000

Local clock offset: -0.323 ms

Remote clock offset: 8.313 ms

Below is generated by plot.py at Tue, 25 Jul 2017 02:38:59 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.74 Mbit/s

95th percentile per-packet one-way delay: 74.161 ms

Loss rate: 0.62%

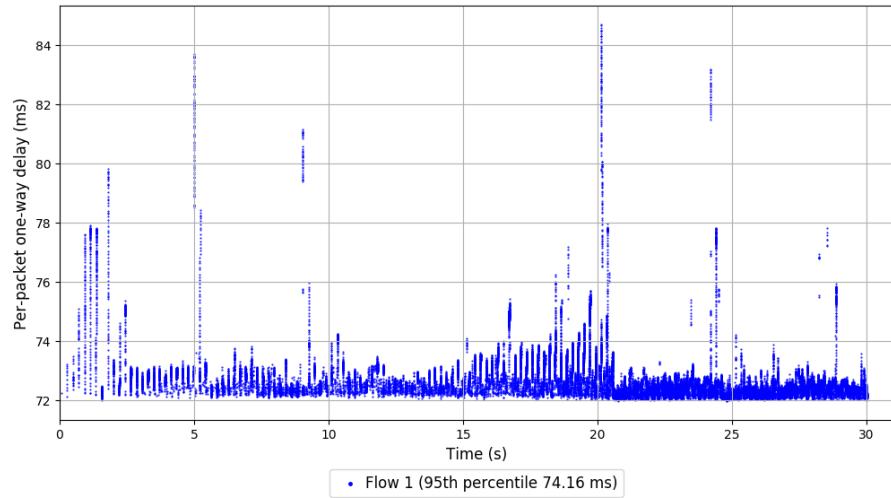
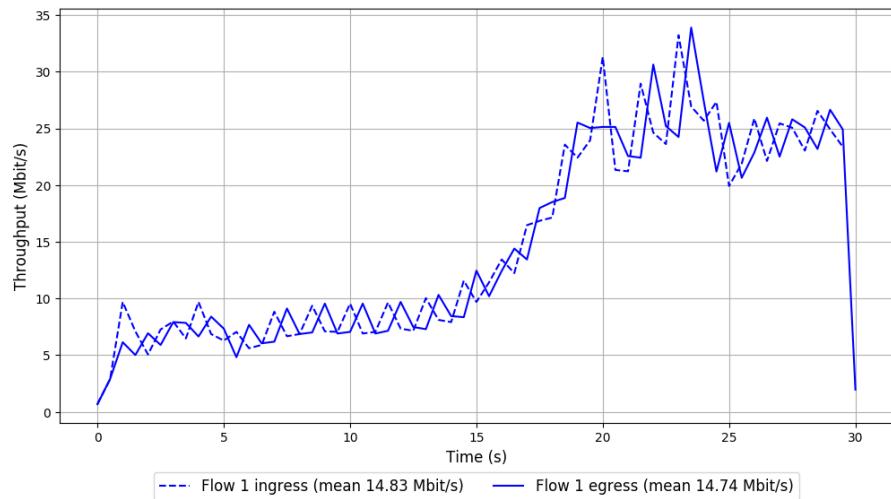
-- Flow 1:

Average throughput: 14.74 Mbit/s

95th percentile per-packet one-way delay: 74.161 ms

Loss rate: 0.62%

Run 7: Report of TCP Cubic — Data Link

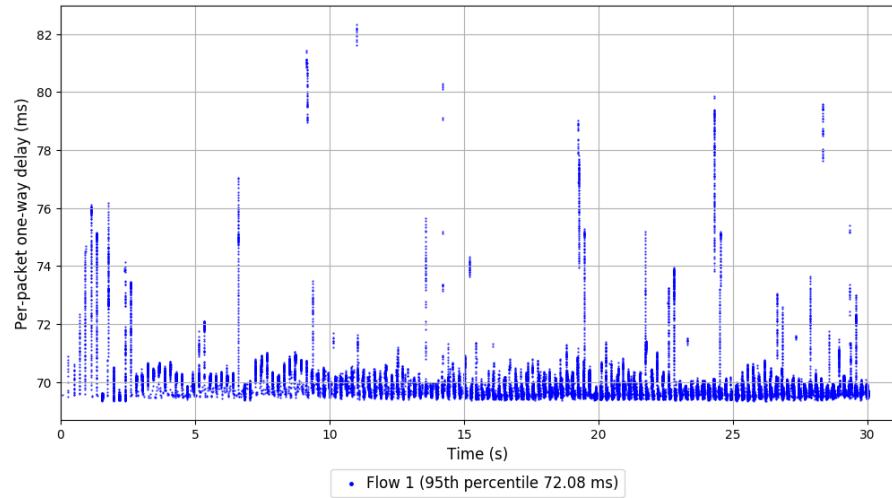
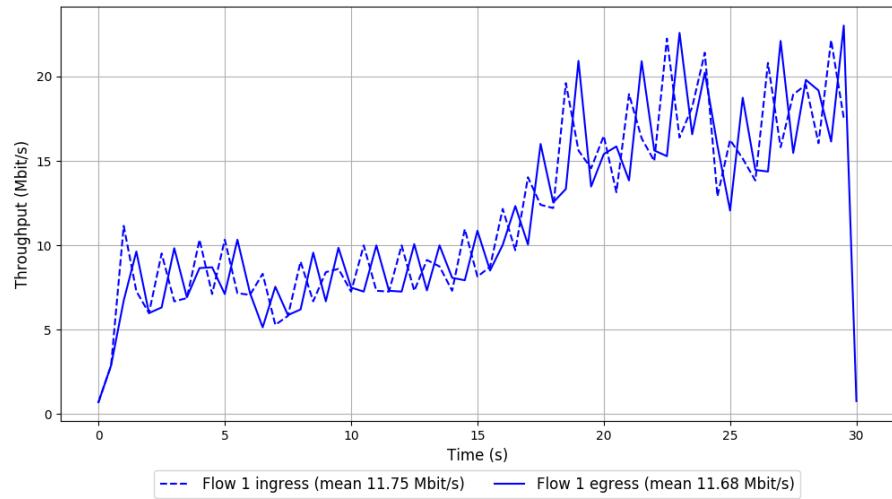


Run 8: Statistics of TCP Cubic

```
Start at: Mon, 24 Jul 2017 22:34:50 +0000
End at: Mon, 24 Jul 2017 22:35:20 +0000
Local clock offset: -0.187 ms
Remote clock offset: 9.07 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:00 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.68 Mbit/s
95th percentile per-packet one-way delay: 72.085 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 11.68 Mbit/s
95th percentile per-packet one-way delay: 72.085 ms
Loss rate: 0.54%
```

Run 8: Report of TCP Cubic — Data Link

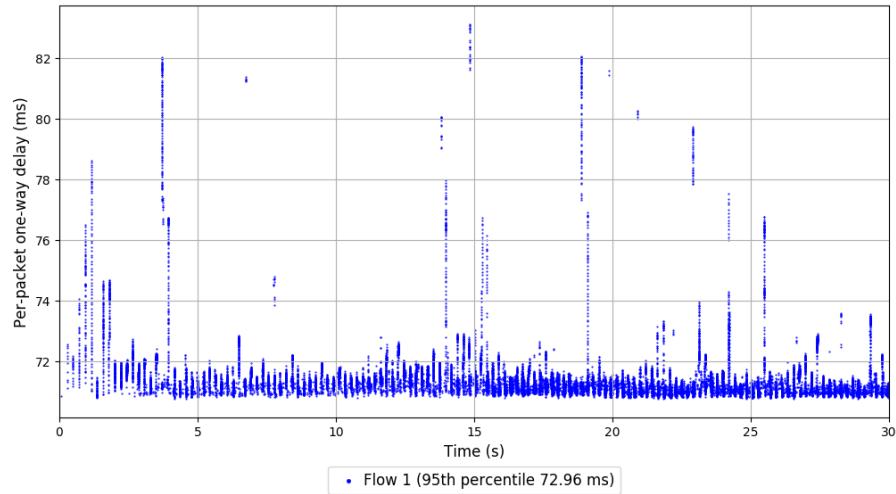
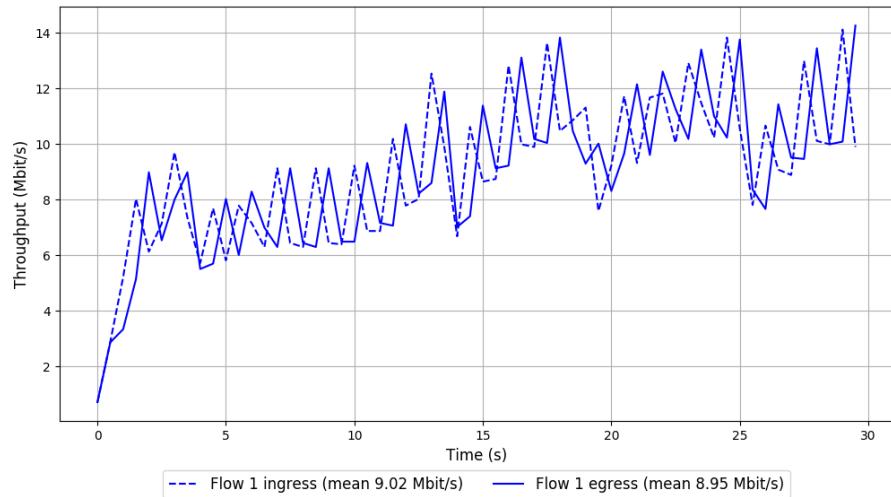


Run 9: Statistics of TCP Cubic

```
Start at: Mon, 24 Jul 2017 22:53:46 +0000
End at: Mon, 24 Jul 2017 22:54:16 +0000
Local clock offset: 1.176 ms
Remote clock offset: 8.442 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:01 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.95 Mbit/s
95th percentile per-packet one-way delay: 72.962 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 8.95 Mbit/s
95th percentile per-packet one-way delay: 72.962 ms
Loss rate: 0.87%
```

Run 9: Report of TCP Cubic — Data Link

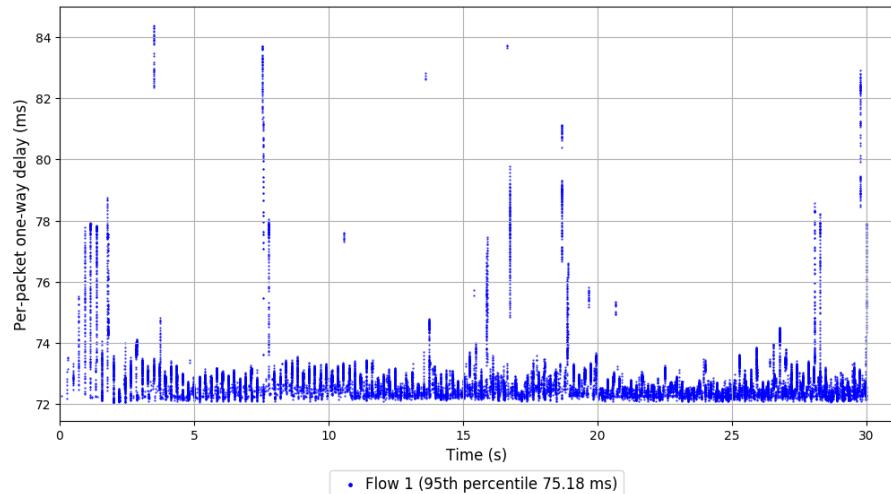
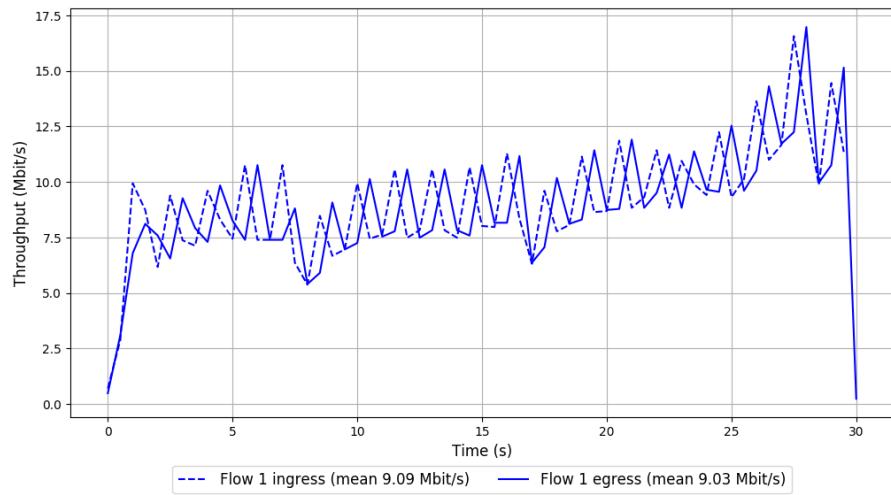


Run 10: Statistics of TCP Cubic

```
Start at: Mon, 24 Jul 2017 23:12:47 +0000
End at: Mon, 24 Jul 2017 23:13:17 +0000
Local clock offset: -0.035 ms
Remote clock offset: 7.8 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:03 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.03 Mbit/s
95th percentile per-packet one-way delay: 75.180 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 9.03 Mbit/s
95th percentile per-packet one-way delay: 75.180 ms
Loss rate: 0.72%
```

Run 10: Report of TCP Cubic — Data Link

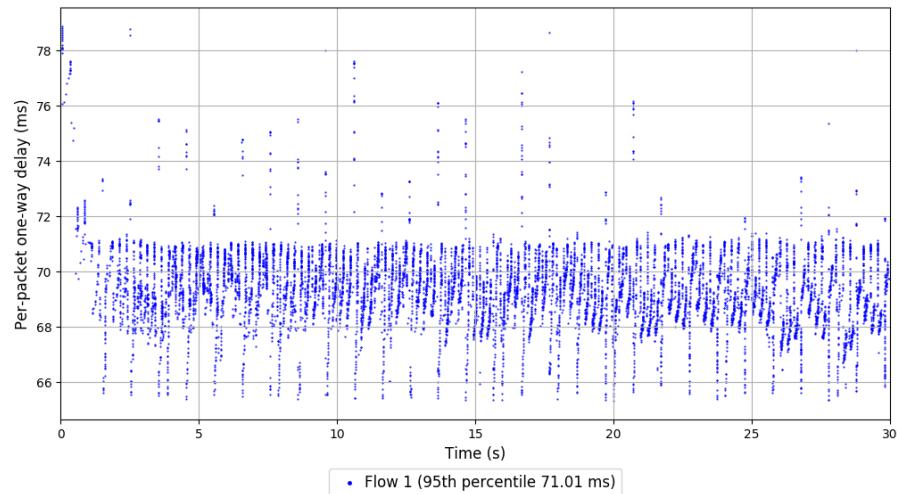
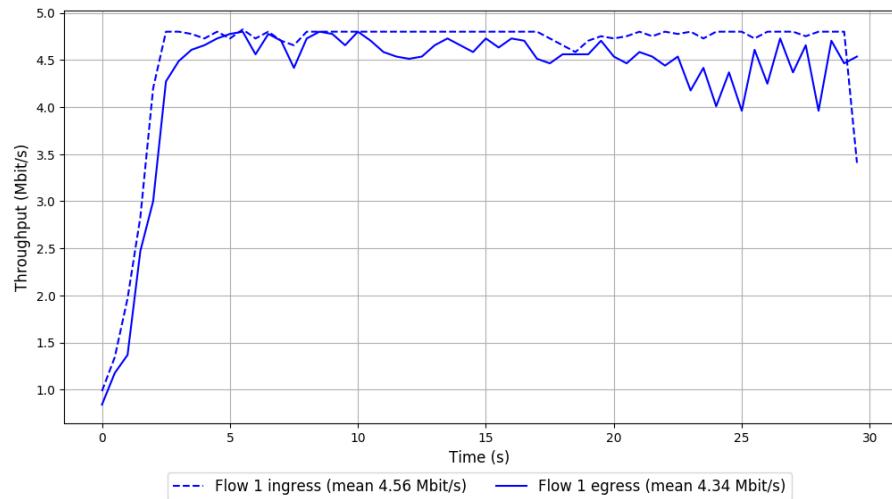


Run 1: Statistics of KohoCC

```
Start at: Mon, 24 Jul 2017 20:06:37 +0000
End at: Mon, 24 Jul 2017 20:07:07 +0000
Local clock offset: -0.096 ms
Remote clock offset: 3.324 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:03 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: 71.010 ms
Loss rate: 4.83%
-- Flow 1:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: 71.010 ms
Loss rate: 4.83%
```

Run 1: Report of KohoCC — Data Link

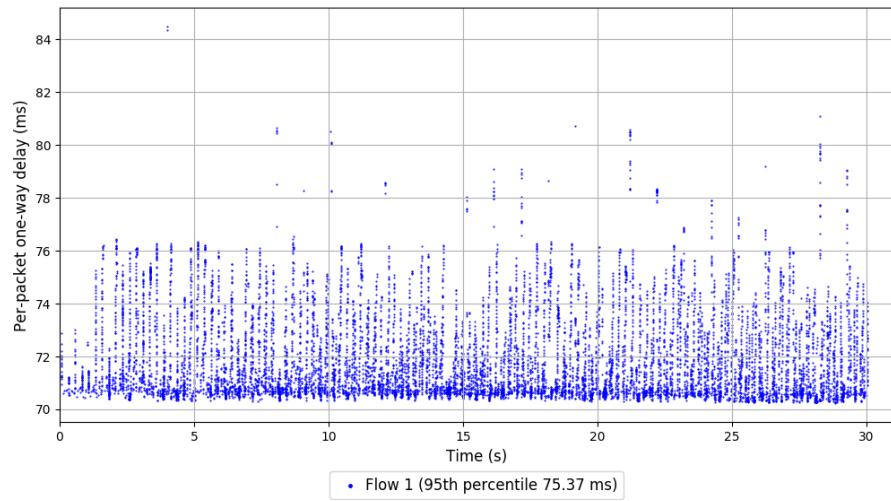
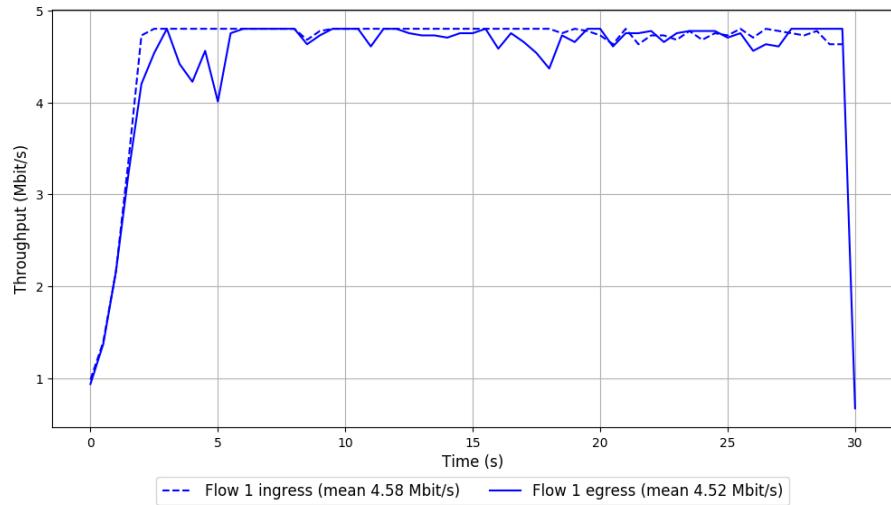


Run 2: Statistics of KohoCC

```
Start at: Mon, 24 Jul 2017 20:25:45 +0000
End at: Mon, 24 Jul 2017 20:26:15 +0000
Local clock offset: -0.175 ms
Remote clock offset: 8.622 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:05 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.52 Mbit/s
95th percentile per-packet one-way delay: 75.374 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 4.52 Mbit/s
95th percentile per-packet one-way delay: 75.374 ms
Loss rate: 1.48%
```

Run 2: Report of KohoCC — Data Link

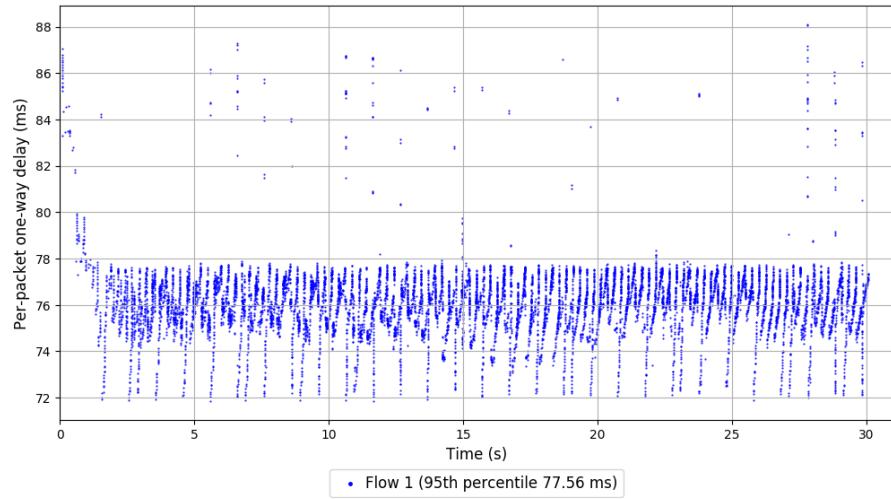
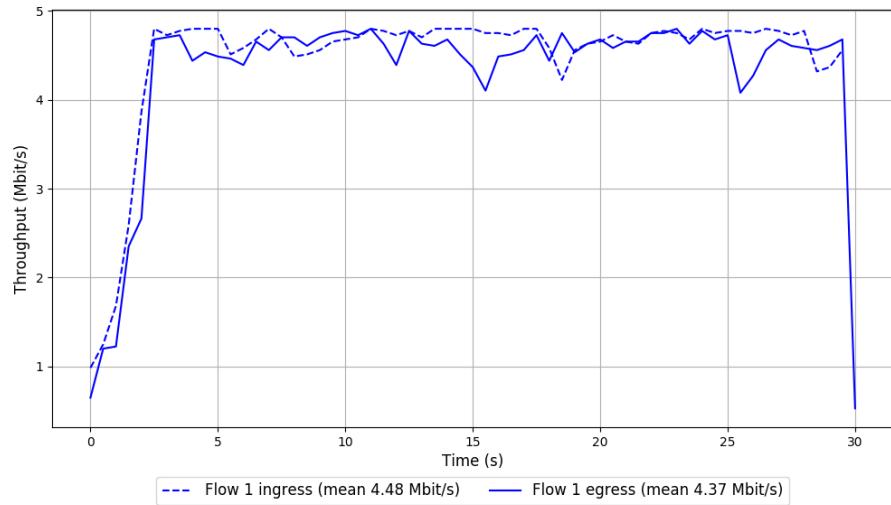


Run 3: Statistics of KohoCC

```
Start at: Mon, 24 Jul 2017 20:44:48 +0000
End at: Mon, 24 Jul 2017 20:45:18 +0000
Local clock offset: -1.215 ms
Remote clock offset: 8.27 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:05 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.37 Mbit/s
95th percentile per-packet one-way delay: 77.564 ms
Loss rate: 2.56%
-- Flow 1:
Average throughput: 4.37 Mbit/s
95th percentile per-packet one-way delay: 77.564 ms
Loss rate: 2.56%
```

Run 3: Report of KohoCC — Data Link

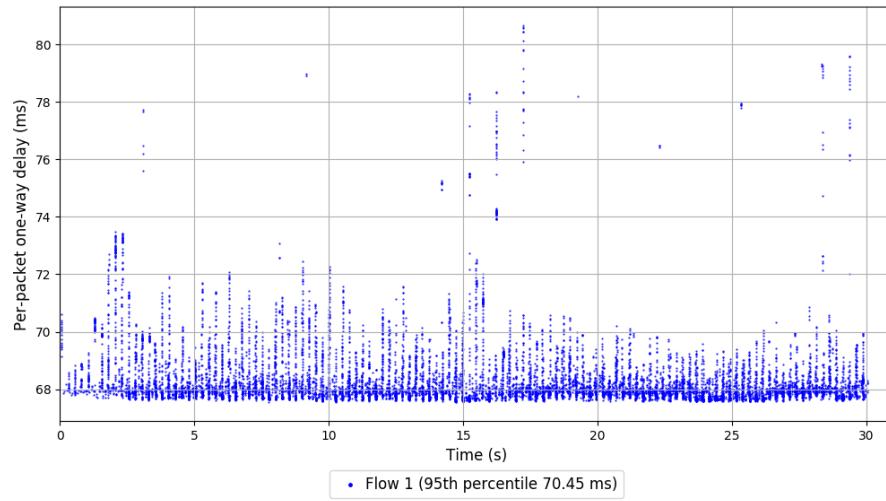
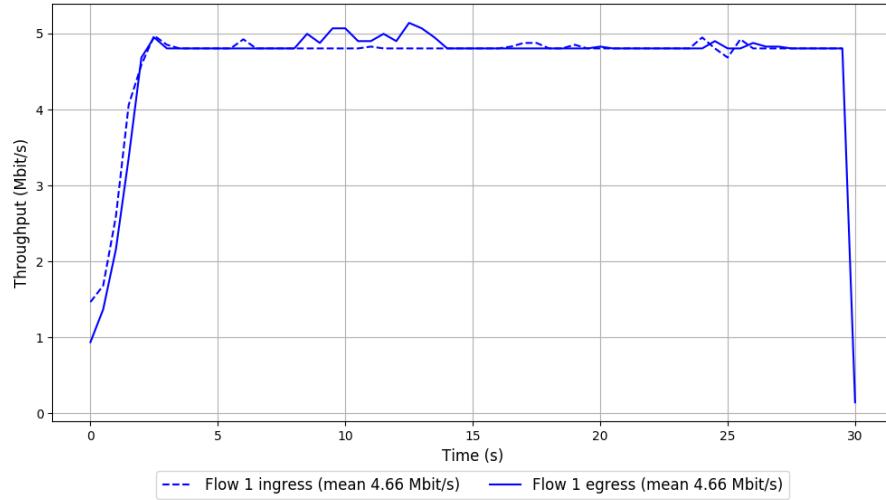


Run 4: Statistics of KohoCC

```
Start at: Mon, 24 Jul 2017 21:03:56 +0000
End at: Mon, 24 Jul 2017 21:04:26 +0000
Local clock offset: 0.0 ms
Remote clock offset: 7.588 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:07 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.66 Mbit/s
95th percentile per-packet one-way delay: 70.449 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 4.66 Mbit/s
95th percentile per-packet one-way delay: 70.449 ms
Loss rate: 0.02%
```

Run 4: Report of KohoCC — Data Link

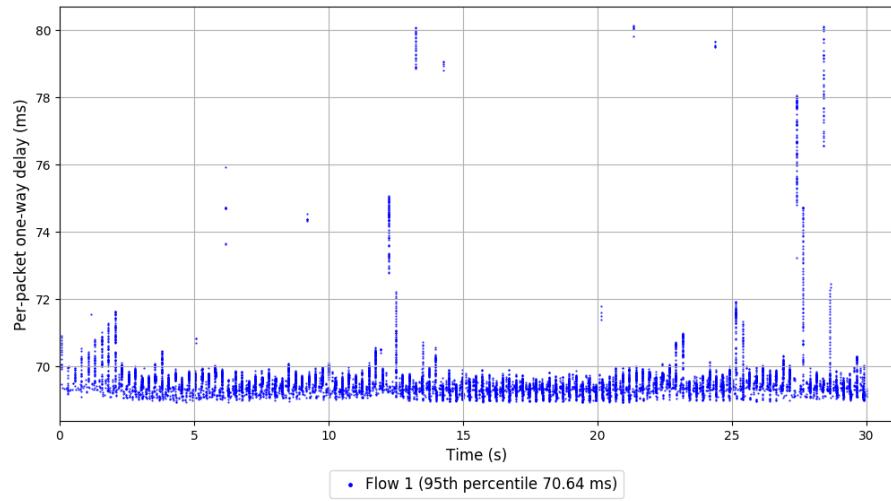
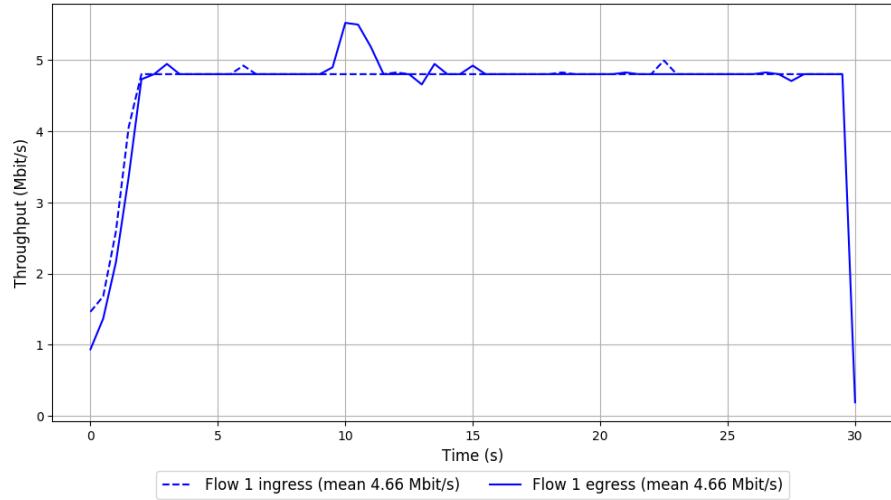


Run 5: Statistics of KohoCC

```
Start at: Mon, 24 Jul 2017 21:23:10 +0000
End at: Mon, 24 Jul 2017 21:23:40 +0000
Local clock offset: -0.976 ms
Remote clock offset: 6.75 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:07 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.66 Mbit/s
95th percentile per-packet one-way delay: 70.643 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 4.66 Mbit/s
95th percentile per-packet one-way delay: 70.643 ms
Loss rate: 0.03%
```

Run 5: Report of KohoCC — Data Link

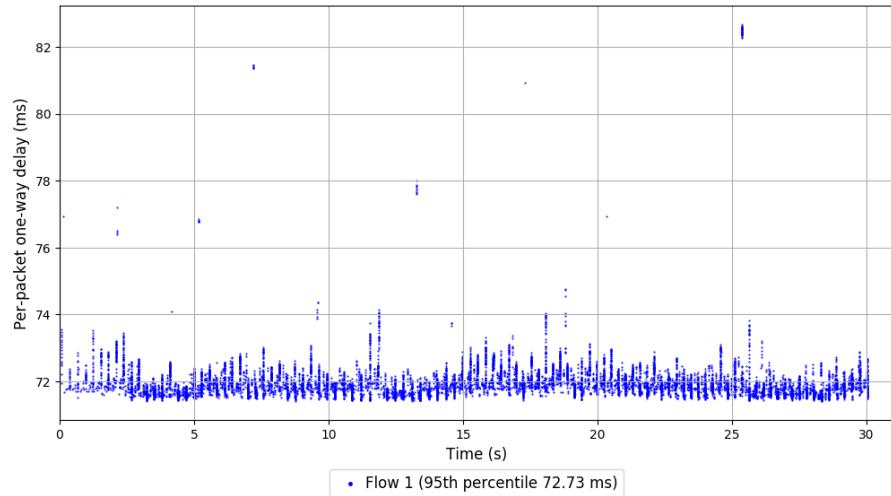
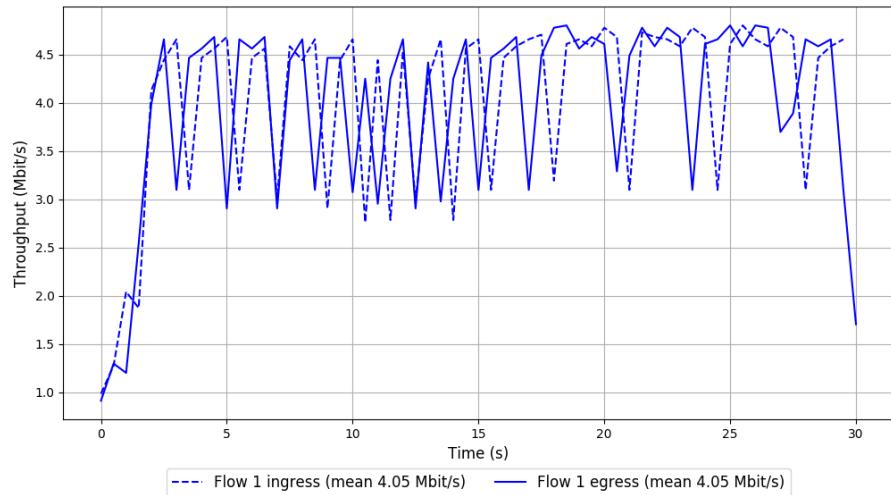


Run 6: Statistics of KohoCC

```
Start at: Mon, 24 Jul 2017 21:43:43 +0000
End at: Mon, 24 Jul 2017 21:44:13 +0000
Local clock offset: -0.754 ms
Remote clock offset: 6.947 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:08 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.05 Mbit/s
95th percentile per-packet one-way delay: 72.731 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.05 Mbit/s
95th percentile per-packet one-way delay: 72.731 ms
Loss rate: 0.00%
```

Run 6: Report of KohoCC — Data Link

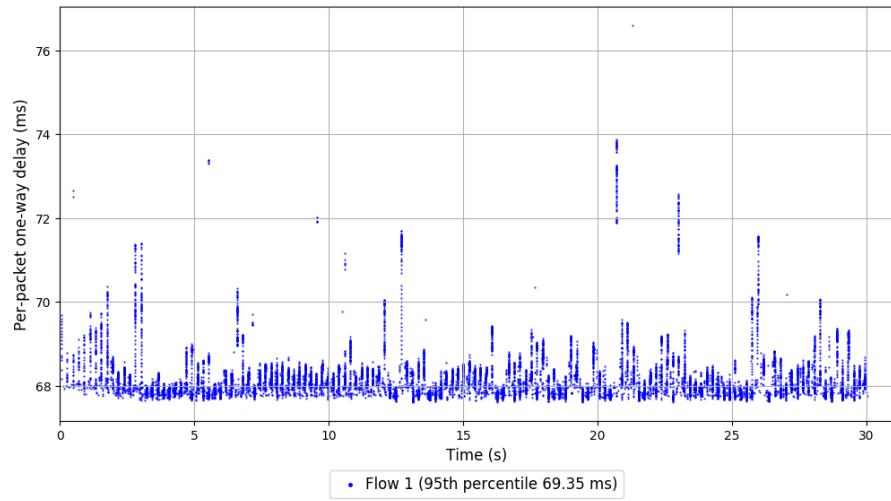
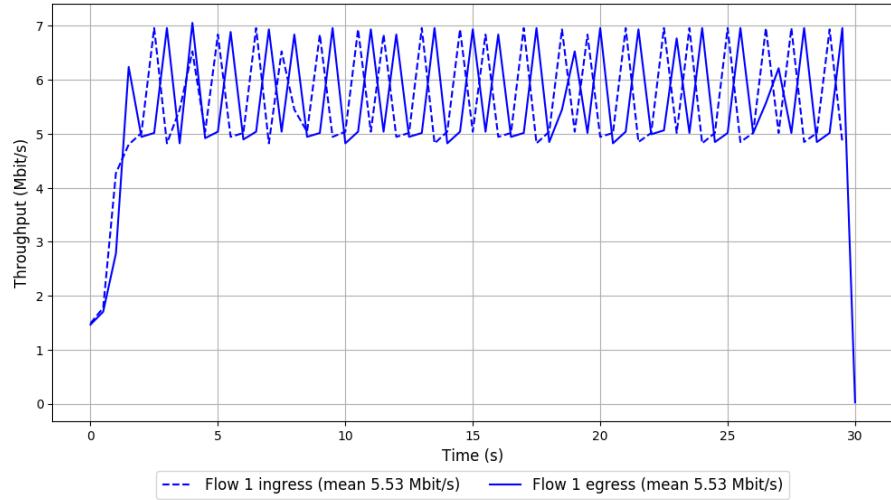


Run 7: Statistics of KohoCC

```
Start at: Mon, 24 Jul 2017 22:03:27 +0000
End at: Mon, 24 Jul 2017 22:03:57 +0000
Local clock offset: 0.765 ms
Remote clock offset: 7.591 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:08 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.53 Mbit/s
95th percentile per-packet one-way delay: 69.350 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.53 Mbit/s
95th percentile per-packet one-way delay: 69.350 ms
Loss rate: 0.00%
```

Run 7: Report of KohoCC — Data Link

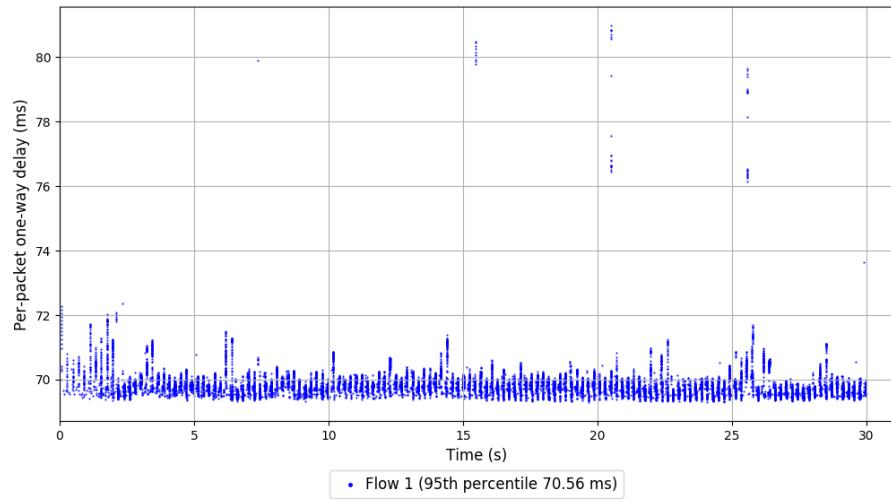
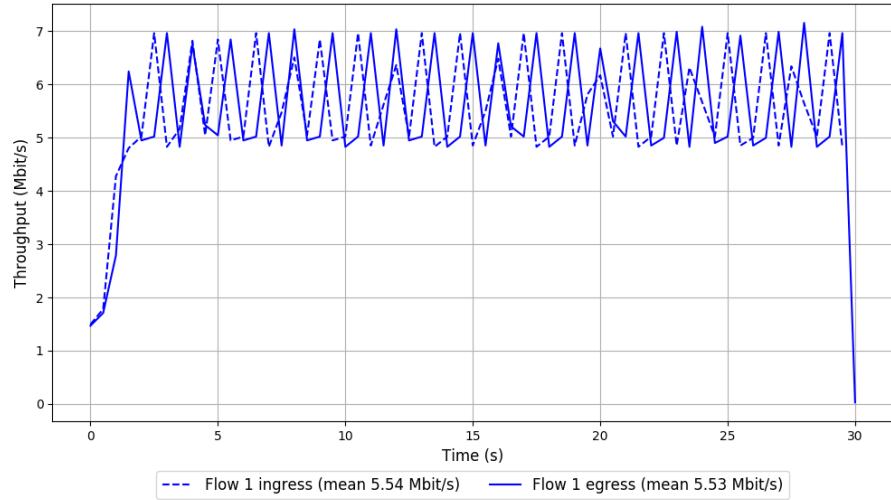


Run 8: Statistics of KohoCC

```
Start at: Mon, 24 Jul 2017 22:22:32 +0000
End at: Mon, 24 Jul 2017 22:23:02 +0000
Local clock offset: -0.318 ms
Remote clock offset: 8.714 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:10 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.53 Mbit/s
95th percentile per-packet one-way delay: 70.565 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 5.53 Mbit/s
95th percentile per-packet one-way delay: 70.565 ms
Loss rate: 0.01%
```

Run 8: Report of KohoCC — Data Link

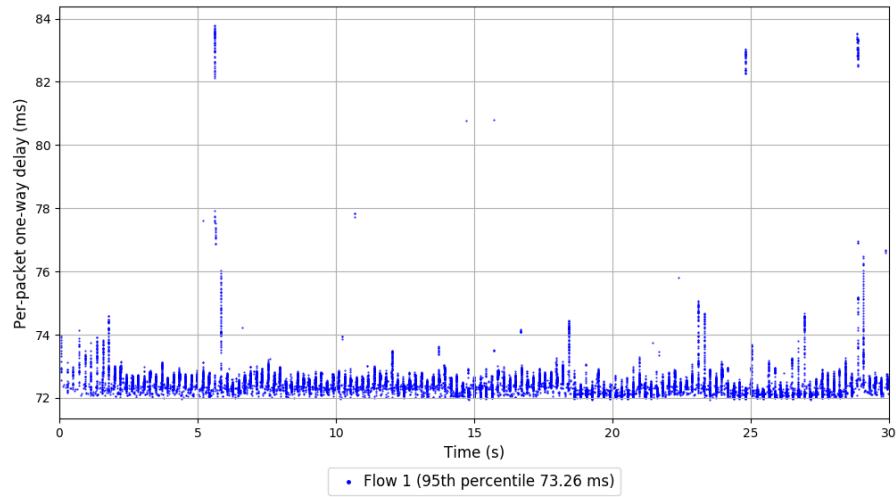
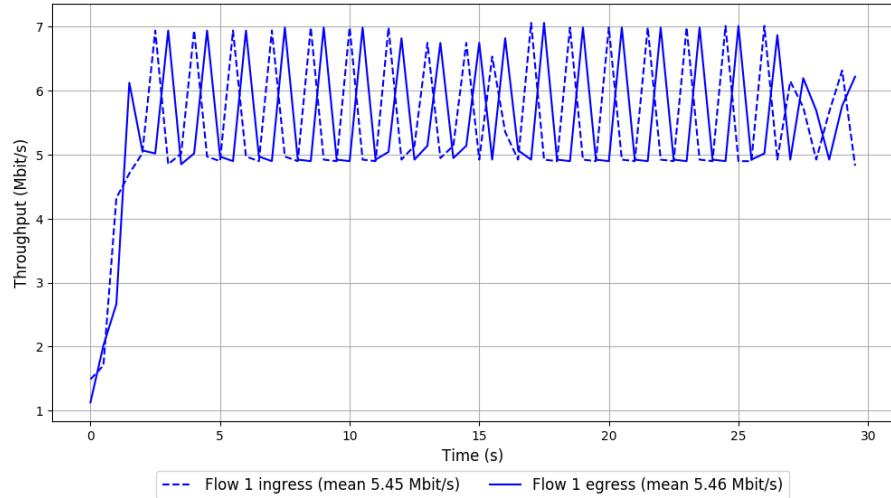


Run 9: Statistics of KohoCC

```
Start at: Mon, 24 Jul 2017 22:42:24 +0000
End at: Mon, 24 Jul 2017 22:42:54 +0000
Local clock offset: -0.056 ms
Remote clock offset: 8.797 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:10 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.46 Mbit/s
95th percentile per-packet one-way delay: 73.259 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 5.46 Mbit/s
95th percentile per-packet one-way delay: 73.259 ms
Loss rate: 0.02%
```

Run 9: Report of KohoCC — Data Link

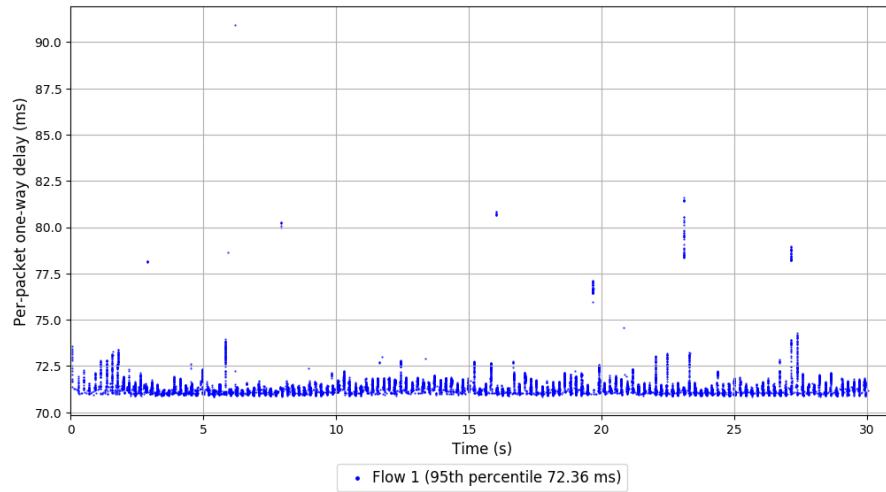
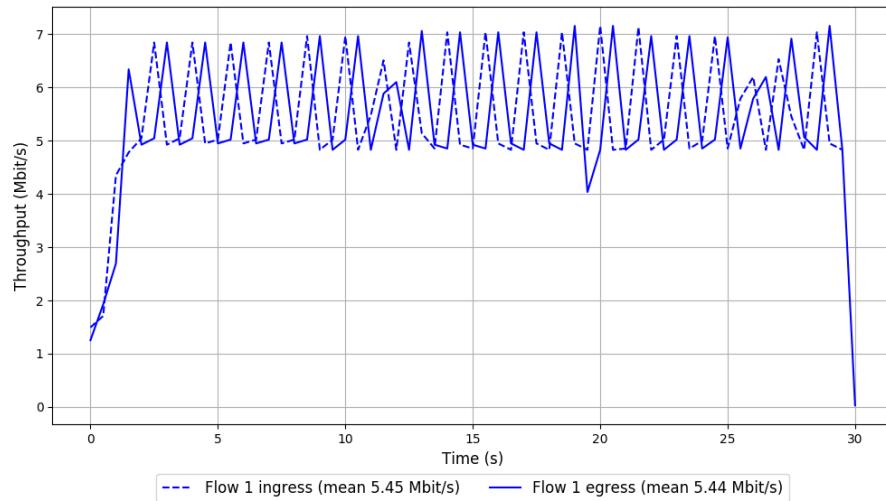


Run 10: Statistics of KohoCC

```
Start at: Mon, 24 Jul 2017 23:01:25 +0000
End at: Mon, 24 Jul 2017 23:01:55 +0000
Local clock offset: 1.118 ms
Remote clock offset: 8.078 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:12 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.44 Mbit/s
95th percentile per-packet one-way delay: 72.359 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 5.44 Mbit/s
95th percentile per-packet one-way delay: 72.359 ms
Loss rate: 0.24%
```

Run 10: Report of KohoCC — Data Link

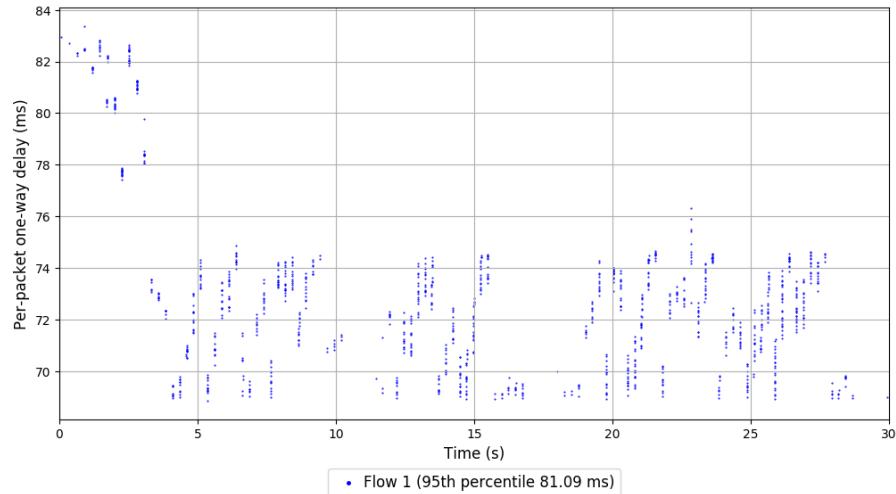
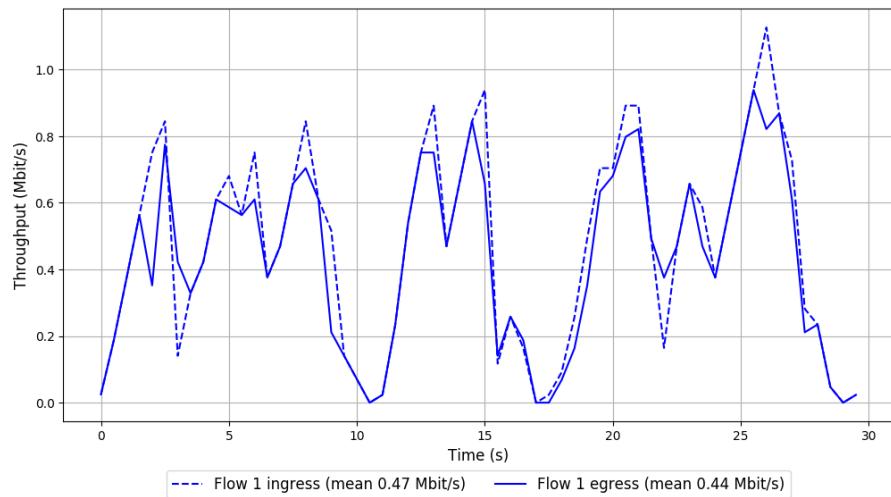


Run 1: Statistics of LEDBAT

```
Start at: Mon, 24 Jul 2017 20:11:40 +0000
End at: Mon, 24 Jul 2017 20:12:10 +0000
Local clock offset: -0.113 ms
Remote clock offset: 4.842 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:12 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 81.087 ms
Loss rate: 7.74%
-- Flow 1:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 81.087 ms
Loss rate: 7.74%
```

Run 1: Report of LEDBAT — Data Link

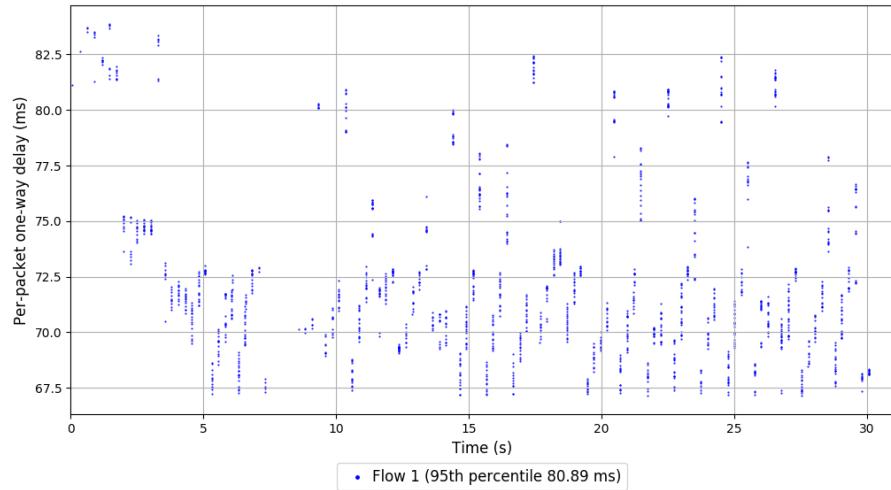
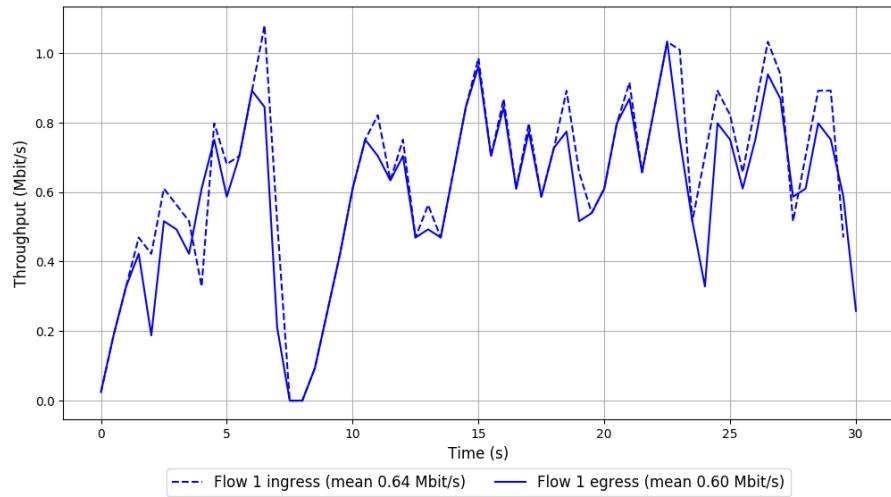


Run 2: Statistics of LEDBAT

```
Start at: Mon, 24 Jul 2017 20:30:49 +0000
End at: Mon, 24 Jul 2017 20:31:19 +0000
Local clock offset: -1.327 ms
Remote clock offset: 6.946 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:13 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 80.890 ms
Loss rate: 6.57%
-- Flow 1:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 80.890 ms
Loss rate: 6.57%
```

Run 2: Report of LEDBAT — Data Link

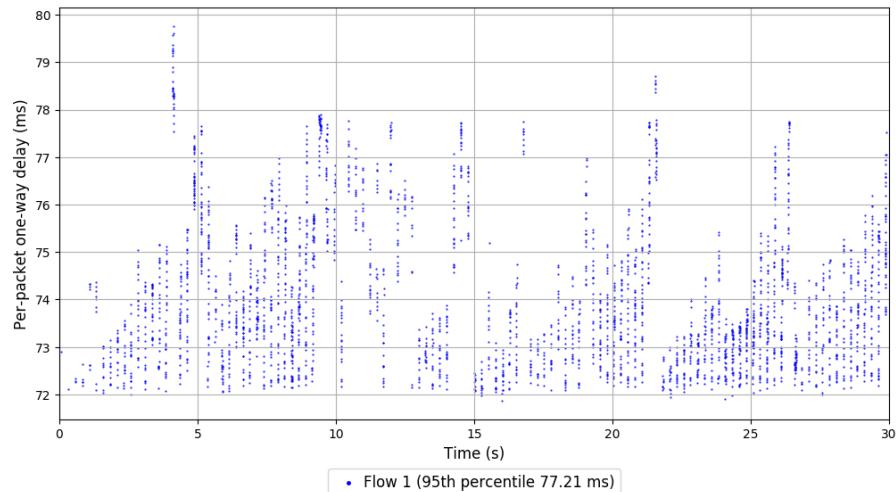
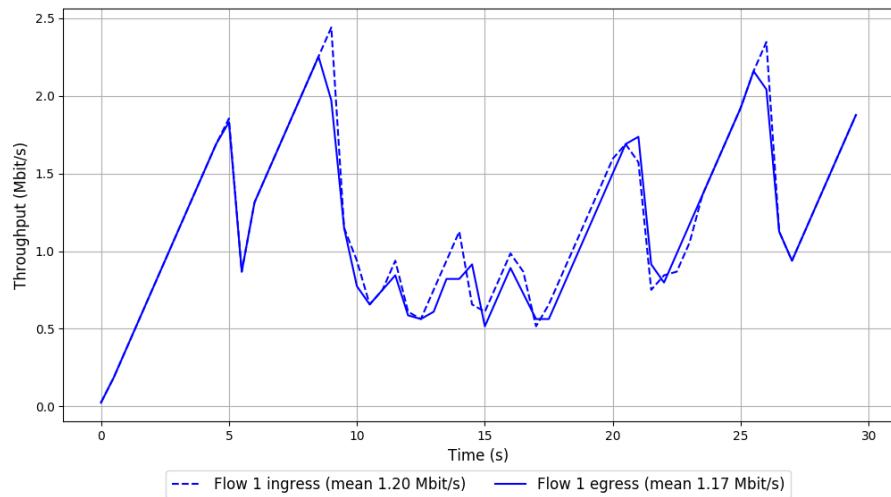


Run 3: Statistics of LEDBAT

```
Start at: Mon, 24 Jul 2017 20:49:55 +0000
End at: Mon, 24 Jul 2017 20:50:25 +0000
Local clock offset: -1.206 ms
Remote clock offset: 8.305 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:13 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.17 Mbit/s
95th percentile per-packet one-way delay: 77.214 ms
Loss rate: 2.53%
-- Flow 1:
Average throughput: 1.17 Mbit/s
95th percentile per-packet one-way delay: 77.214 ms
Loss rate: 2.53%
```

Run 3: Report of LEDBAT — Data Link

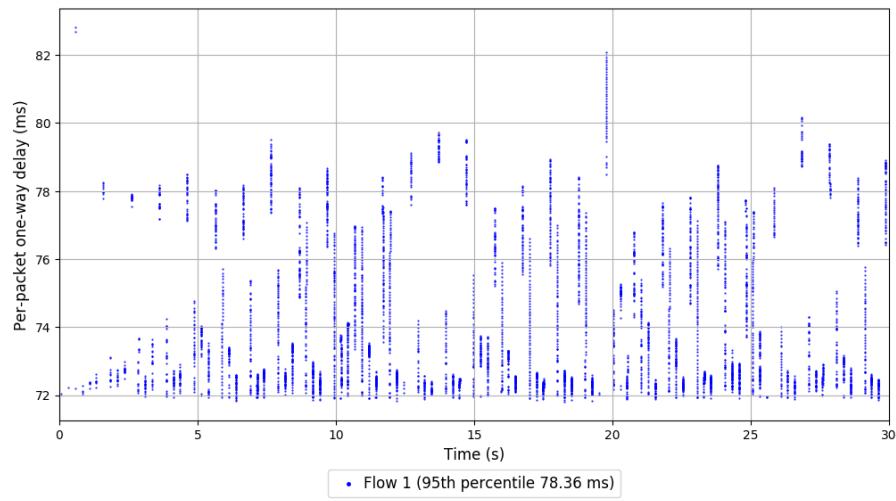
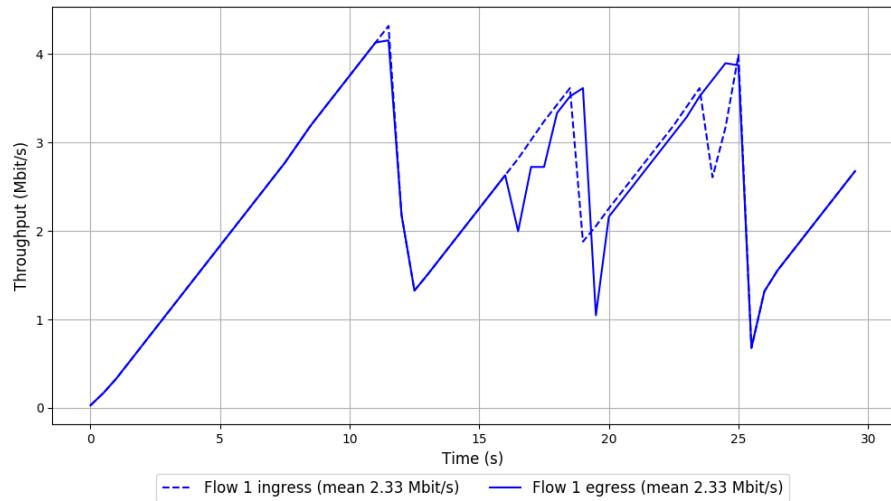


Run 4: Statistics of LEDBAT

```
Start at: Mon, 24 Jul 2017 21:09:02 +0000
End at: Mon, 24 Jul 2017 21:09:32 +0000
Local clock offset: -1.134 ms
Remote clock offset: 7.516 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:14 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 78.363 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 78.363 ms
Loss rate: 0.24%
```

Run 4: Report of LEDBAT — Data Link

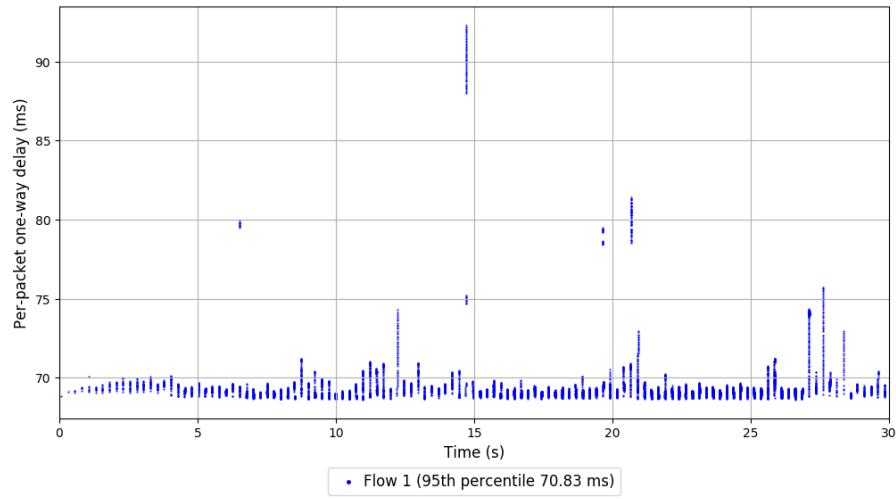
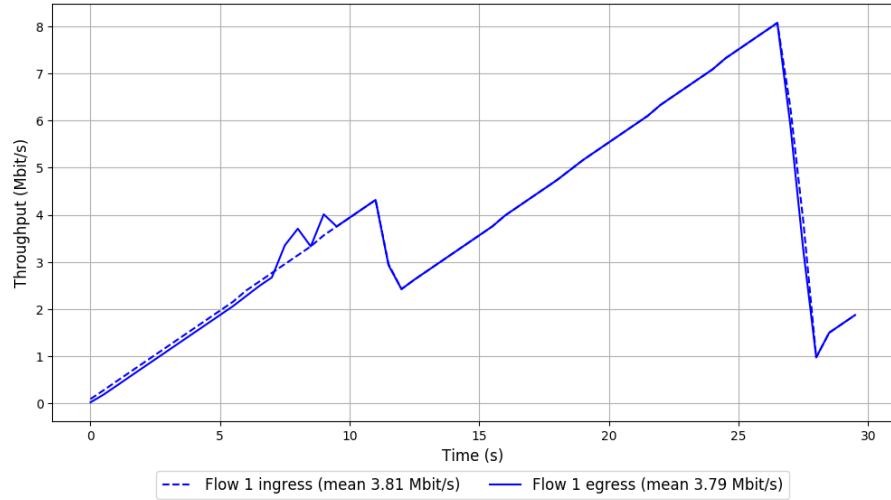


Run 5: Statistics of LEDBAT

```
Start at: Mon, 24 Jul 2017 21:28:18 +0000
End at: Mon, 24 Jul 2017 21:28:48 +0000
Local clock offset: -0.827 ms
Remote clock offset: 6.74 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:14 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.79 Mbit/s
95th percentile per-packet one-way delay: 70.830 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 3.79 Mbit/s
95th percentile per-packet one-way delay: 70.830 ms
Loss rate: 0.44%
```

Run 5: Report of LEDBAT — Data Link

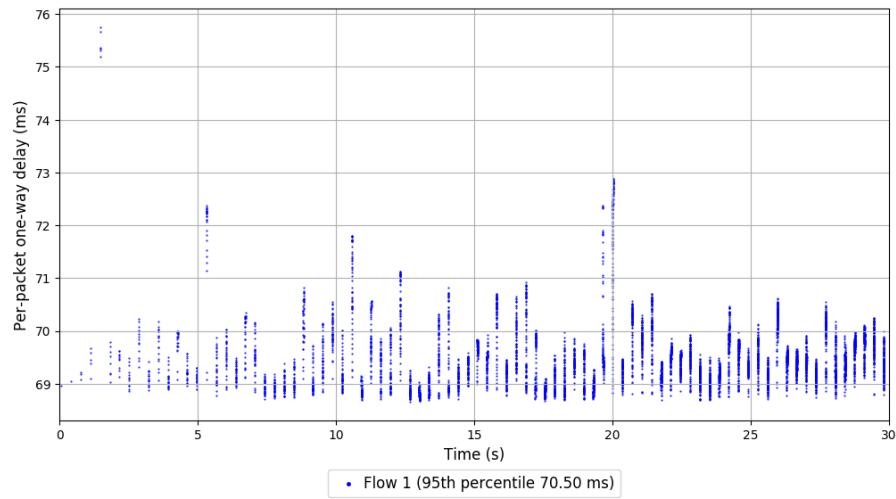
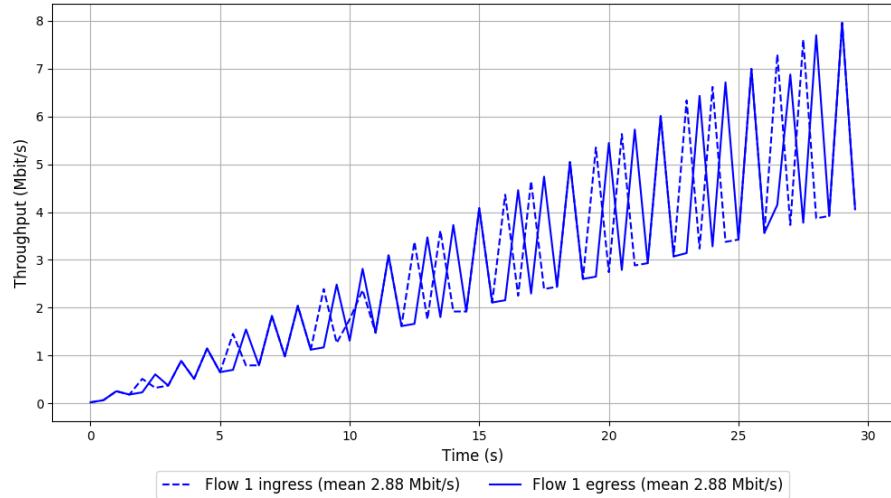


Run 6: Statistics of LEDBAT

```
Start at: Mon, 24 Jul 2017 21:49:07 +0000
End at: Mon, 24 Jul 2017 21:49:37 +0000
Local clock offset: -0.71 ms
Remote clock offset: 7.146 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:15 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.88 Mbit/s
95th percentile per-packet one-way delay: 70.497 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.88 Mbit/s
95th percentile per-packet one-way delay: 70.497 ms
Loss rate: 0.00%
```

Run 6: Report of LEDBAT — Data Link

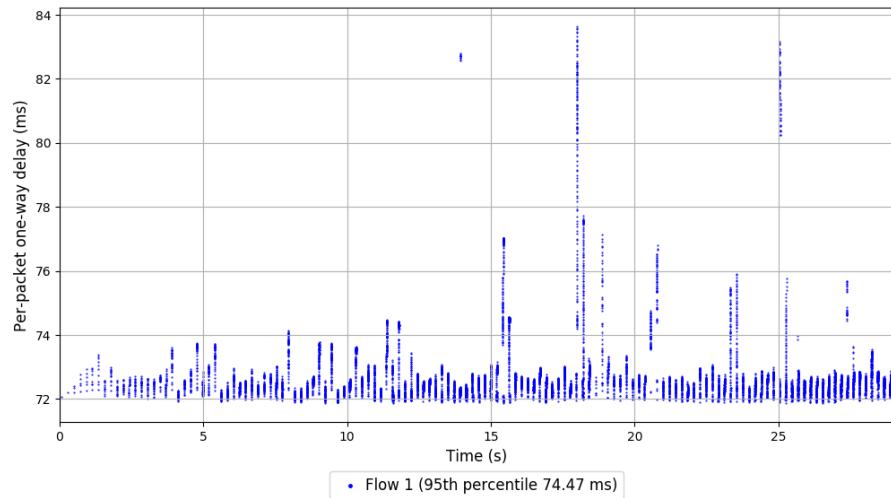
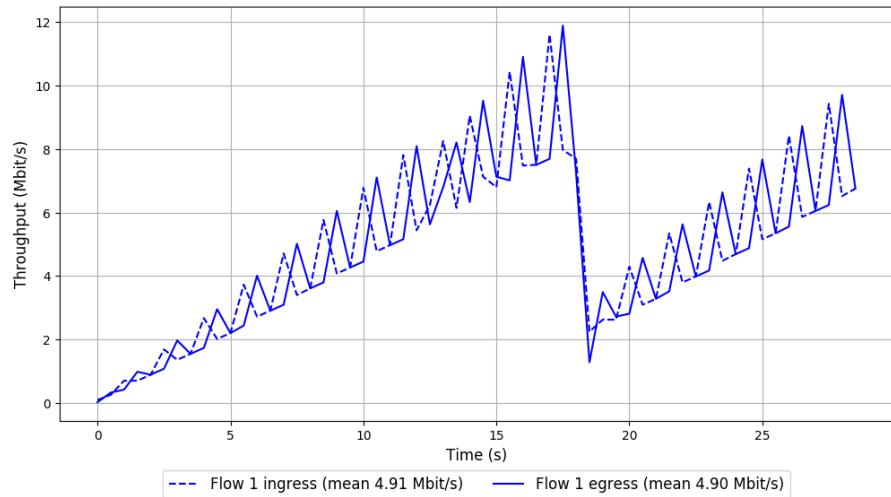


Run 7: Statistics of LEDBAT

```
Start at: Mon, 24 Jul 2017 22:08:29 +0000
End at: Mon, 24 Jul 2017 22:08:59 +0000
Local clock offset: -0.338 ms
Remote clock offset: 7.776 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:16 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.90 Mbit/s
95th percentile per-packet one-way delay: 74.472 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 4.90 Mbit/s
95th percentile per-packet one-way delay: 74.472 ms
Loss rate: 0.17%
```

Run 7: Report of LEDBAT — Data Link

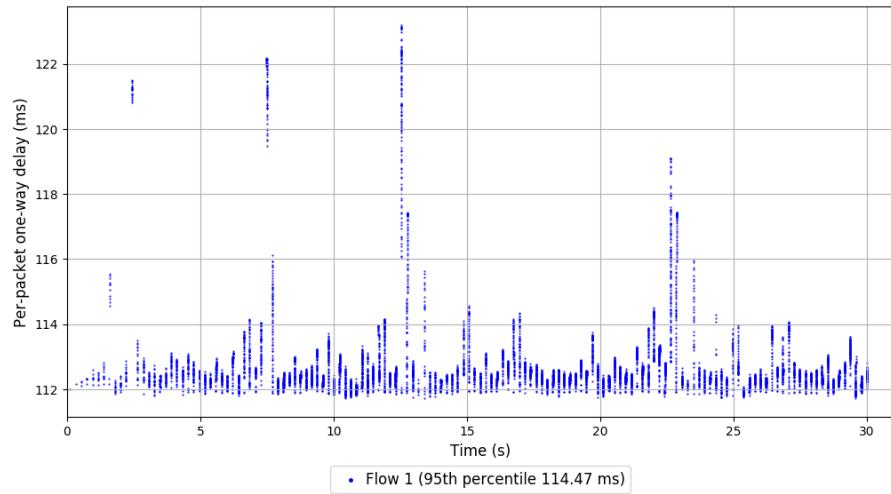
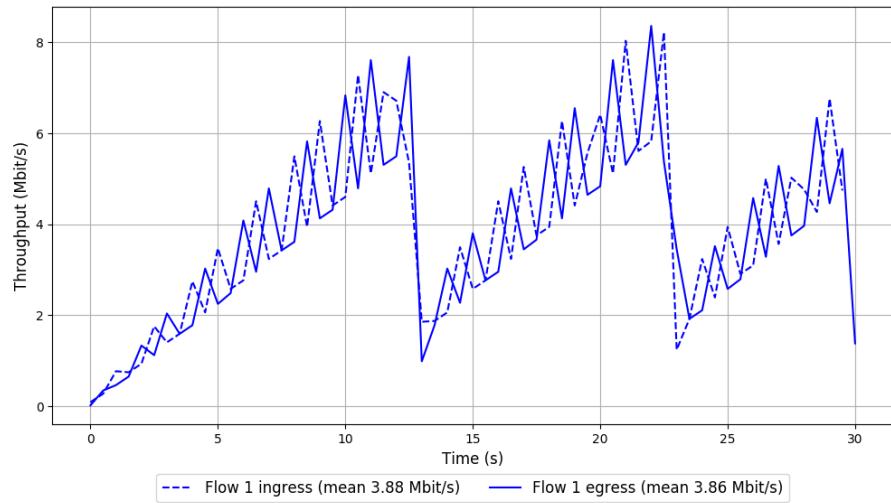


Run 8: Statistics of LEDBAT

```
Start at: Mon, 24 Jul 2017 22:28:22 +0000
End at: Mon, 24 Jul 2017 22:28:52 +0000
Local clock offset: -0.166 ms
Remote clock offset: 51.891 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:17 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.86 Mbit/s
95th percentile per-packet one-way delay: 114.473 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 3.86 Mbit/s
95th percentile per-packet one-way delay: 114.473 ms
Loss rate: 0.49%
```

Run 8: Report of LEDBAT — Data Link

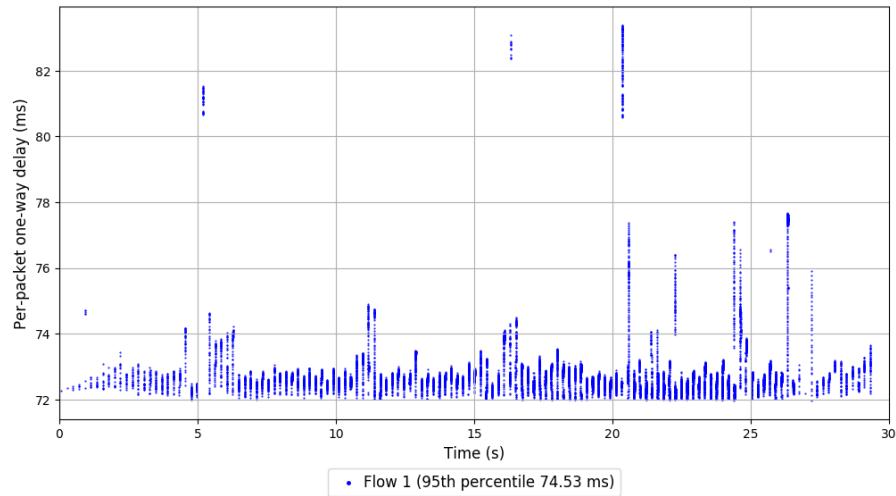
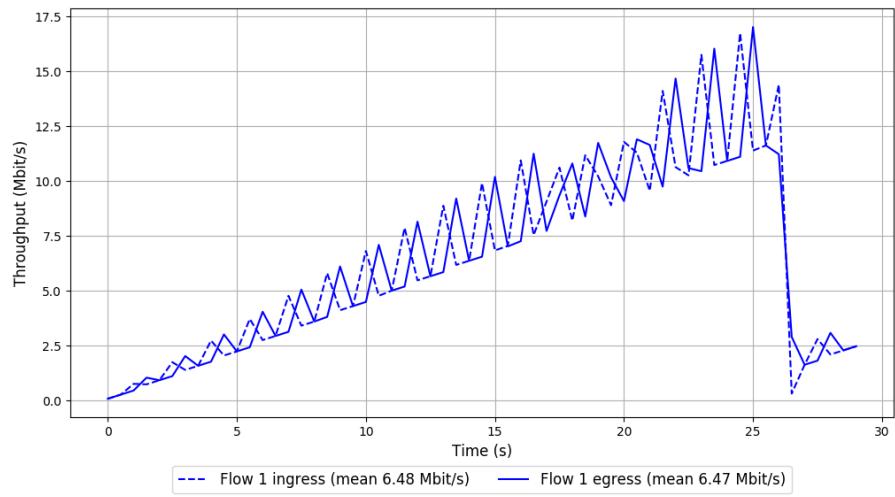


Run 9: Statistics of LEDBAT

```
Start at: Mon, 24 Jul 2017 22:47:26 +0000
End at: Mon, 24 Jul 2017 22:47:56 +0000
Local clock offset: -0.061 ms
Remote clock offset: 8.732 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:18 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.47 Mbit/s
95th percentile per-packet one-way delay: 74.529 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 6.47 Mbit/s
95th percentile per-packet one-way delay: 74.529 ms
Loss rate: 0.15%
```

Run 9: Report of LEDBAT — Data Link

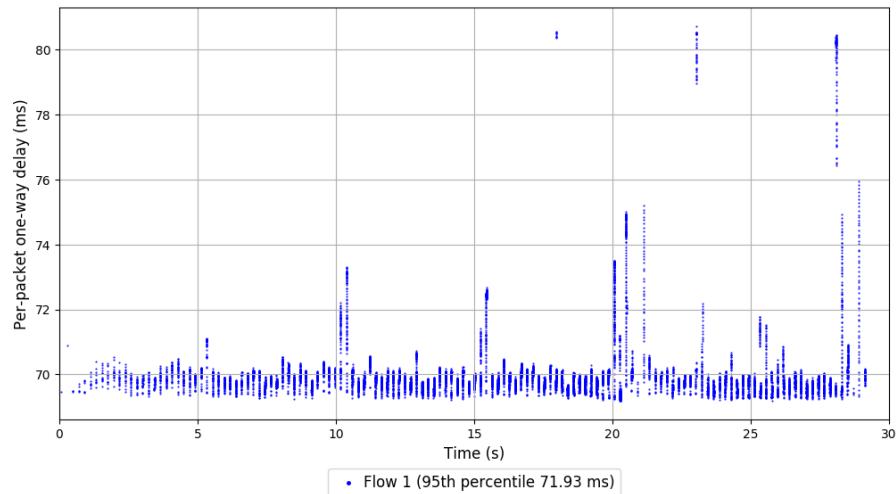
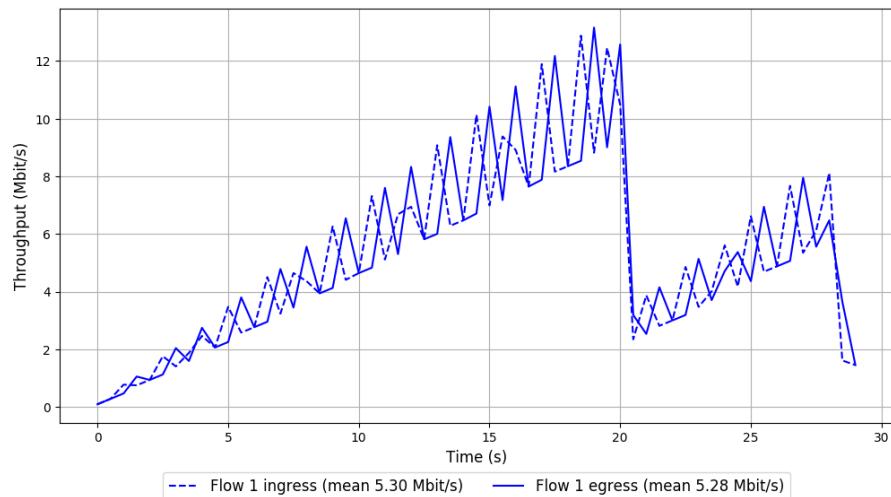


Run 10: Statistics of LEDBAT

```
Start at: Mon, 24 Jul 2017 23:06:24 +0000
End at: Mon, 24 Jul 2017 23:06:54 +0000
Local clock offset: -0.024 ms
Remote clock offset: 7.972 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:18 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.28 Mbit/s
95th percentile per-packet one-way delay: 71.934 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 5.28 Mbit/s
95th percentile per-packet one-way delay: 71.934 ms
Loss rate: 0.22%
```

Run 10: Report of LEDBAT — Data Link

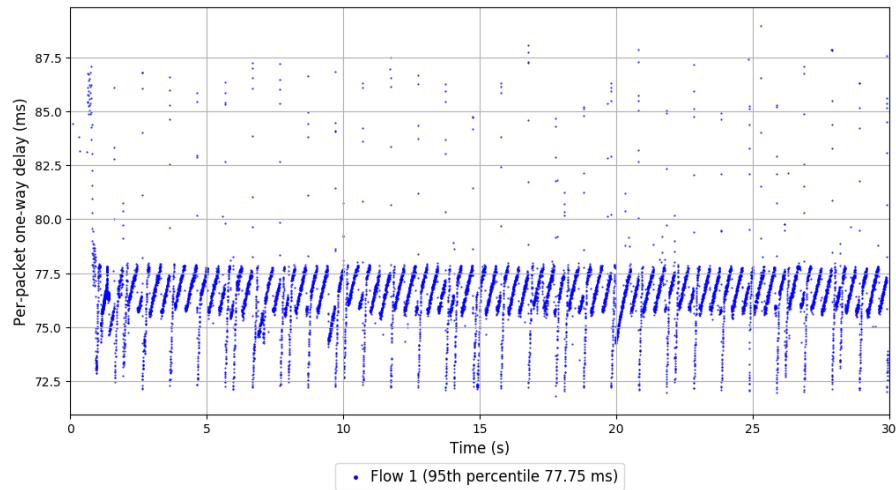
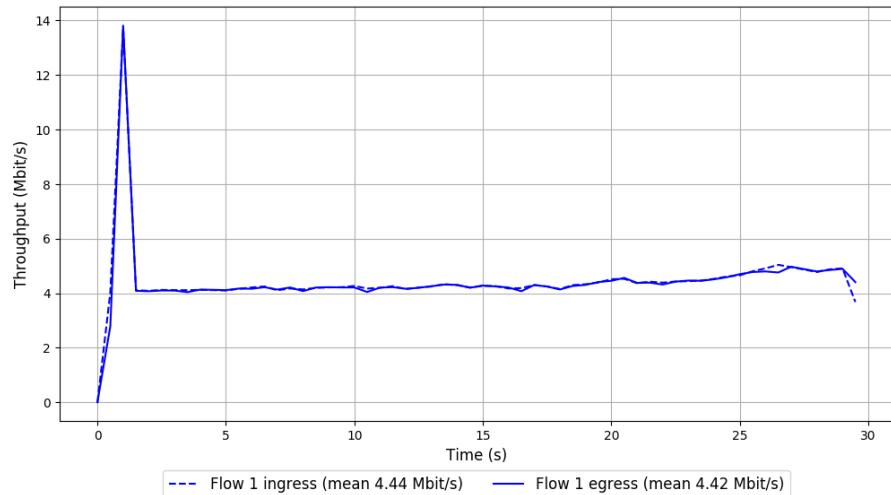


Run 1: Statistics of PCC

```
Start at: Mon, 24 Jul 2017 20:04:05 +0000
End at: Mon, 24 Jul 2017 20:04:35 +0000
Local clock offset: -1.439 ms
Remote clock offset: 5.712 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:19 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.42 Mbit/s
95th percentile per-packet one-way delay: 77.747 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 4.42 Mbit/s
95th percentile per-packet one-way delay: 77.747 ms
Loss rate: 0.55%
```

Run 1: Report of PCC — Data Link

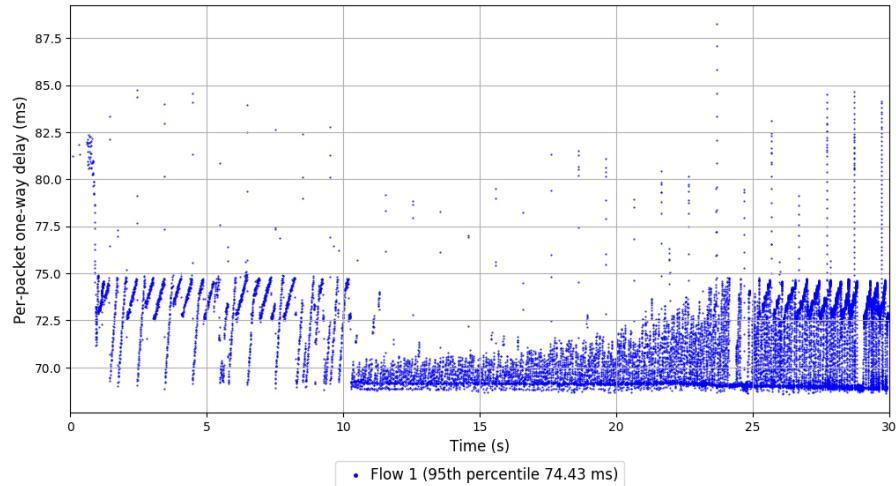
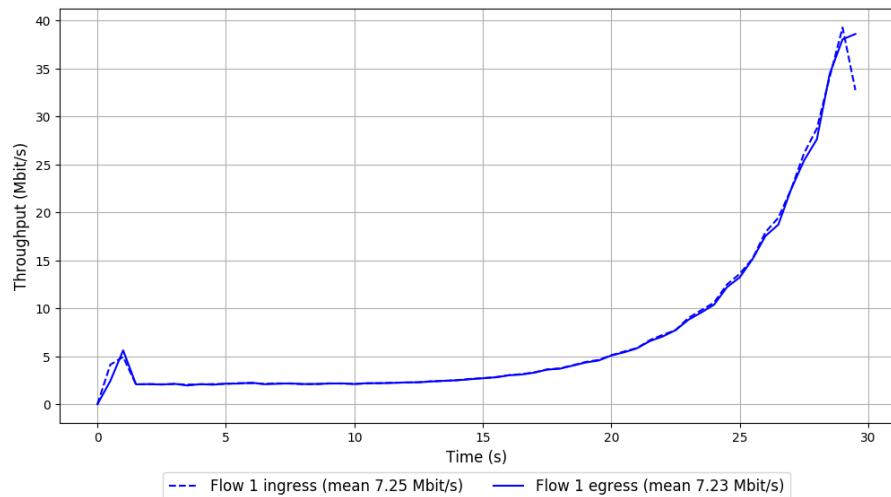


Run 2: Statistics of PCC

```
Start at: Mon, 24 Jul 2017 20:23:12 +0000
End at: Mon, 24 Jul 2017 20:23:43 +0000
Local clock offset: -1.396 ms
Remote clock offset: 8.062 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:21 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.23 Mbit/s
95th percentile per-packet one-way delay: 74.428 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 7.23 Mbit/s
95th percentile per-packet one-way delay: 74.428 ms
Loss rate: 0.31%
```

Run 2: Report of PCC — Data Link

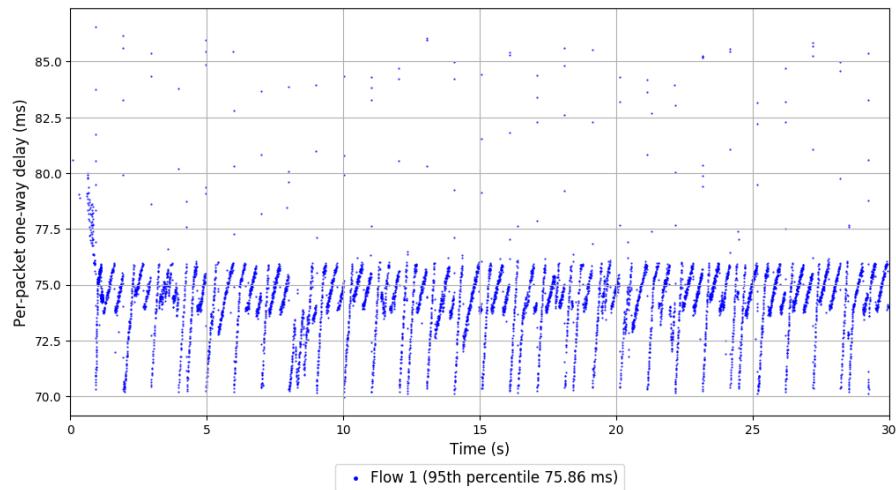
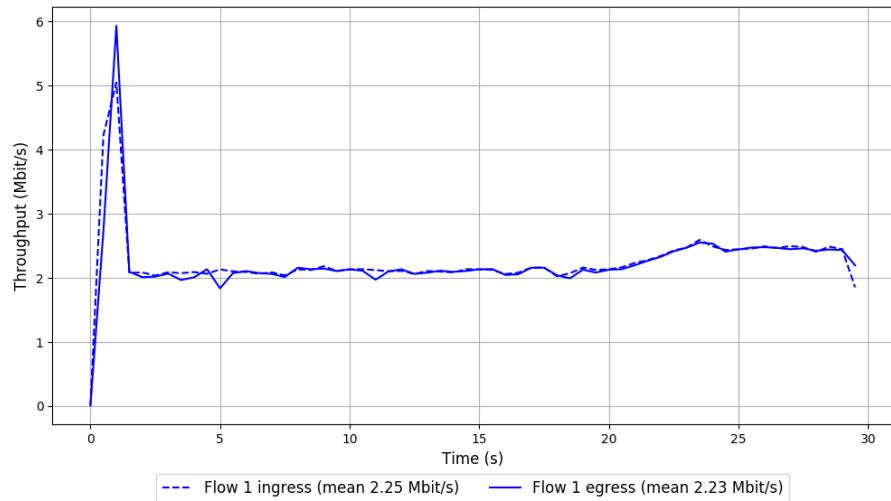


Run 3: Statistics of PCC

```
Start at: Mon, 24 Jul 2017 20:42:17 +0000
End at: Mon, 24 Jul 2017 20:42:47 +0000
Local clock offset: -0.047 ms
Remote clock offset: 7.879 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:21 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 75.865 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 75.865 ms
Loss rate: 1.05%
```

Run 3: Report of PCC — Data Link

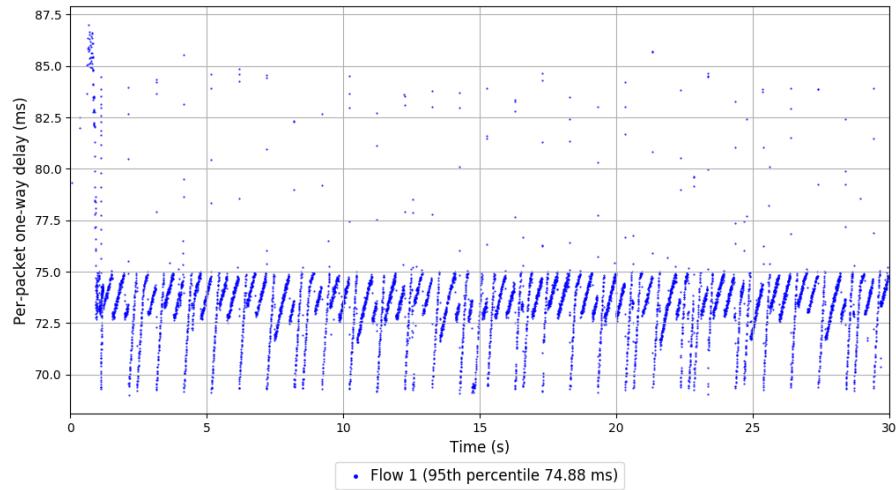
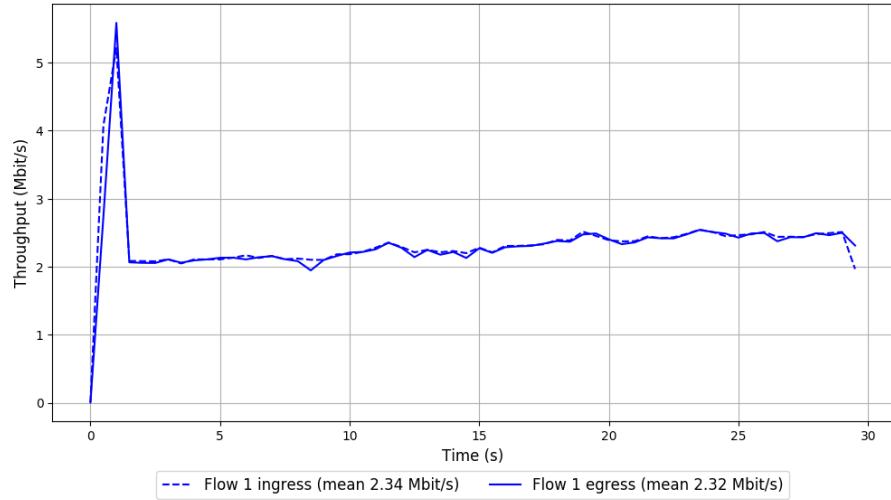


Run 4: Statistics of PCC

```
Start at: Mon, 24 Jul 2017 21:01:24 +0000
End at: Mon, 24 Jul 2017 21:01:55 +0000
Local clock offset: 0.018 ms
Remote clock offset: 6.096 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:22 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 74.875 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 74.875 ms
Loss rate: 1.02%
```

Run 4: Report of PCC — Data Link

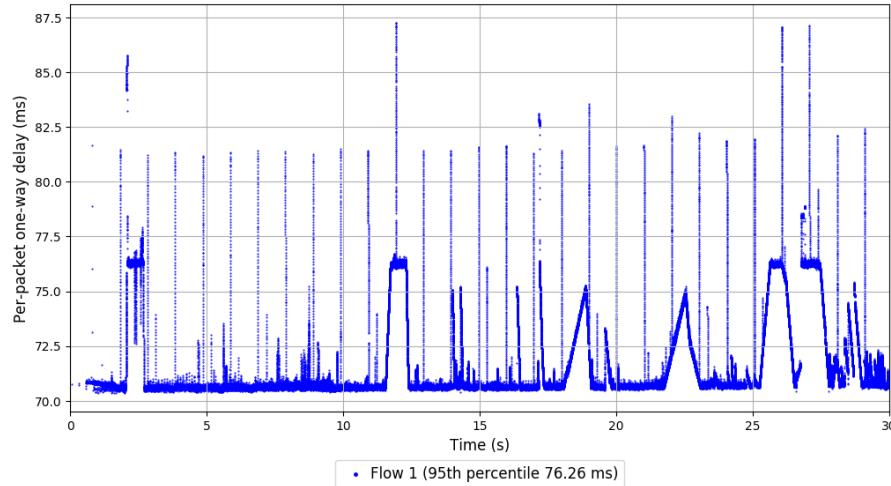
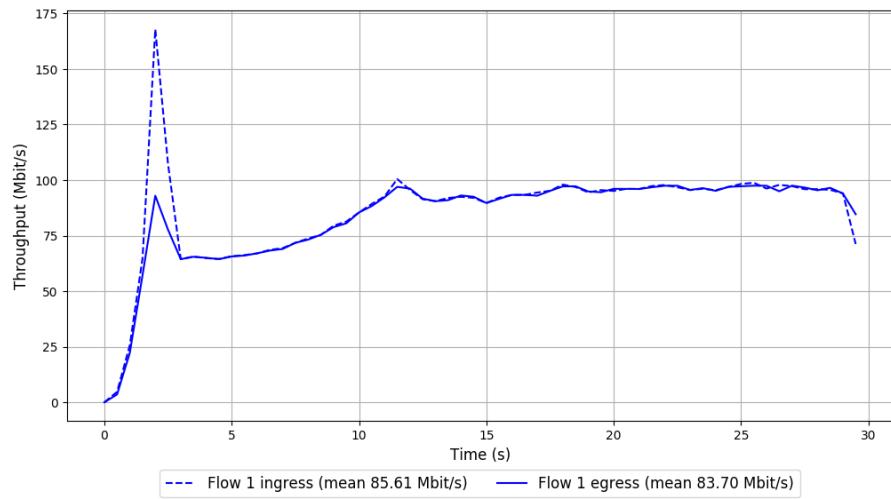


Run 5: Statistics of PCC

```
Start at: Mon, 24 Jul 2017 21:20:33 +0000
End at: Mon, 24 Jul 2017 21:21:03 +0000
Local clock offset: 0.185 ms
Remote clock offset: 6.856 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:33 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.70 Mbit/s
95th percentile per-packet one-way delay: 76.258 ms
Loss rate: 2.25%
-- Flow 1:
Average throughput: 83.70 Mbit/s
95th percentile per-packet one-way delay: 76.258 ms
Loss rate: 2.25%
```

Run 5: Report of PCC — Data Link

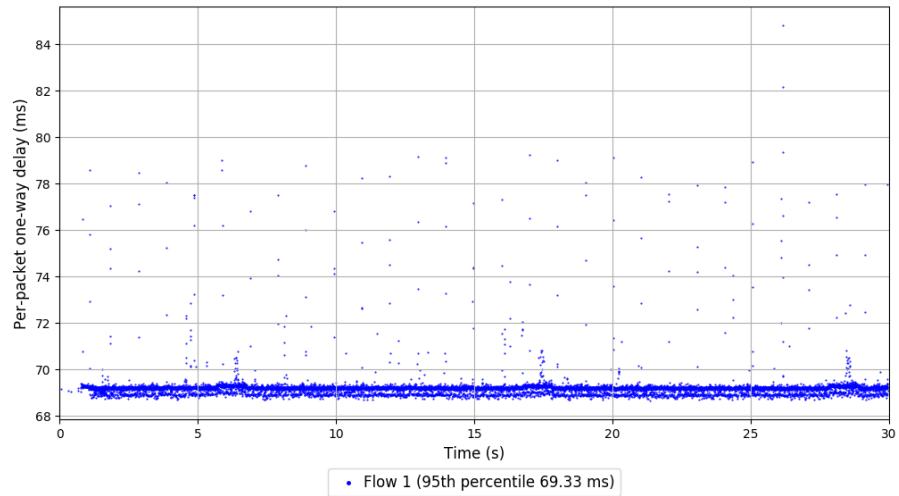
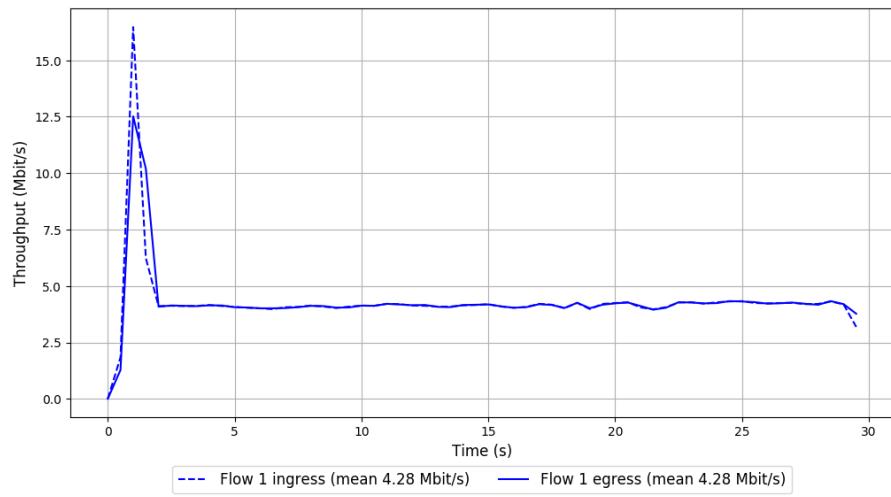


Run 6: Statistics of PCC

```
Start at: Mon, 24 Jul 2017 21:40:04 +0000
End at: Mon, 24 Jul 2017 21:40:34 +0000
Local clock offset: -0.861 ms
Remote clock offset: 6.827 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:33 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.28 Mbit/s
95th percentile per-packet one-way delay: 69.334 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.28 Mbit/s
95th percentile per-packet one-way delay: 69.334 ms
Loss rate: 0.00%
```

Run 6: Report of PCC — Data Link

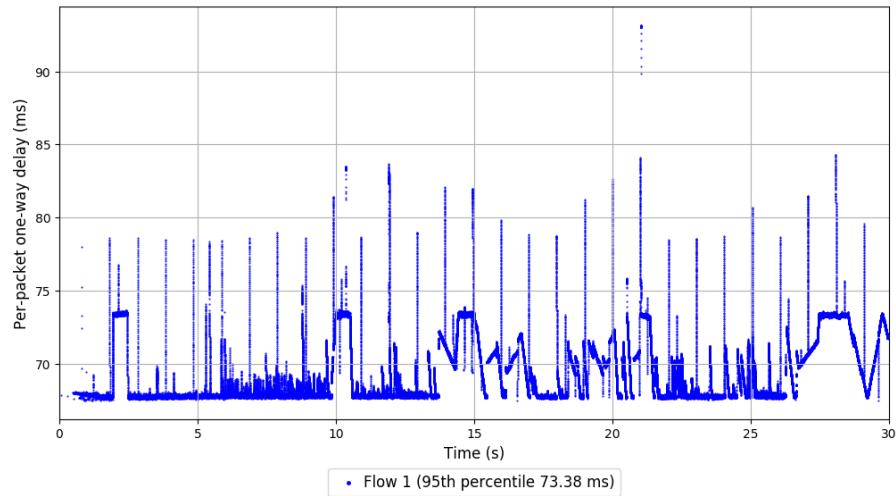
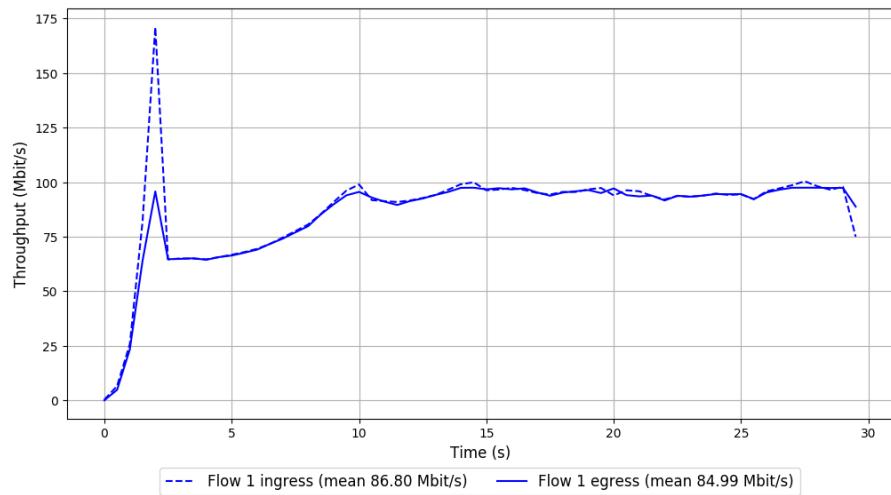


Run 7: Statistics of PCC

```
Start at: Mon, 24 Jul 2017 22:00:54 +0000
End at: Mon, 24 Jul 2017 22:01:24 +0000
Local clock offset: 0.713 ms
Remote clock offset: 7.564 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:34 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.99 Mbit/s
95th percentile per-packet one-way delay: 73.384 ms
Loss rate: 2.09%
-- Flow 1:
Average throughput: 84.99 Mbit/s
95th percentile per-packet one-way delay: 73.384 ms
Loss rate: 2.09%
```

Run 7: Report of PCC — Data Link

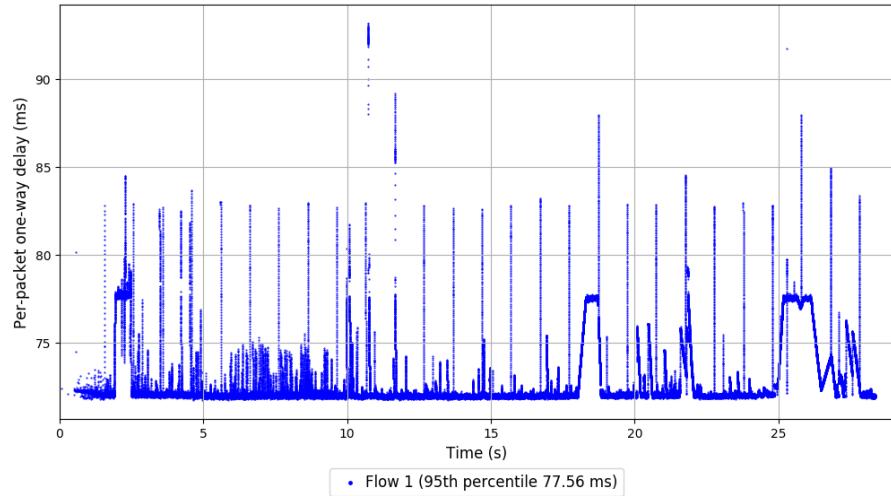
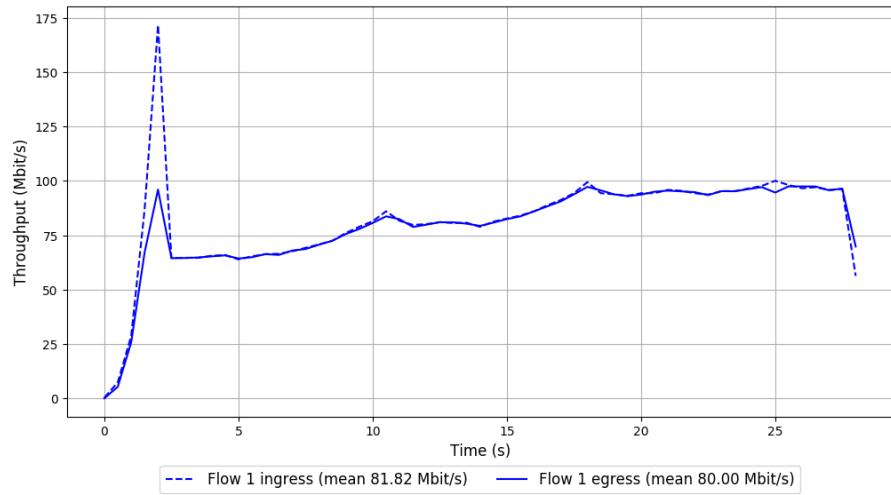


Run 8: Statistics of PCC

```
Start at: Mon, 24 Jul 2017 22:19:59 +0000
End at: Mon, 24 Jul 2017 22:20:29 +0000
Local clock offset: -0.242 ms
Remote clock offset: 8.529 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:45 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.00 Mbit/s
95th percentile per-packet one-way delay: 77.561 ms
Loss rate: 2.23%
-- Flow 1:
Average throughput: 80.00 Mbit/s
95th percentile per-packet one-way delay: 77.561 ms
Loss rate: 2.23%
```

Run 8: Report of PCC — Data Link

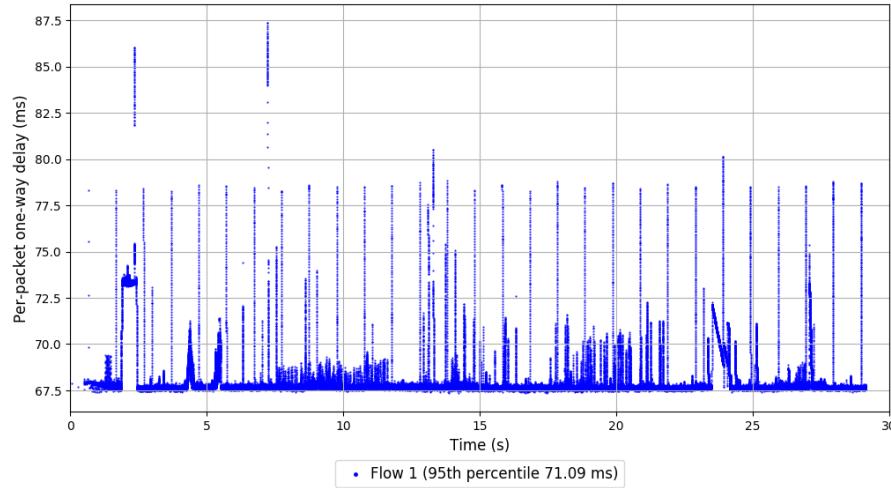
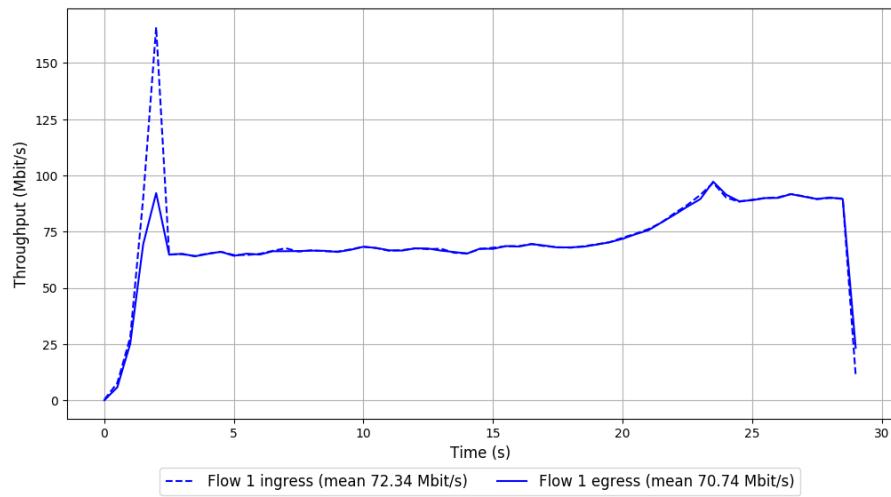


Run 9: Statistics of PCC

```
Start at: Mon, 24 Jul 2017 22:39:52 +0000
End at: Mon, 24 Jul 2017 22:40:22 +0000
Local clock offset: 1.278 ms
Remote clock offset: 8.875 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:45 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.74 Mbit/s
95th percentile per-packet one-way delay: 71.087 ms
Loss rate: 2.21%
-- Flow 1:
Average throughput: 70.74 Mbit/s
95th percentile per-packet one-way delay: 71.087 ms
Loss rate: 2.21%
```

Run 9: Report of PCC — Data Link

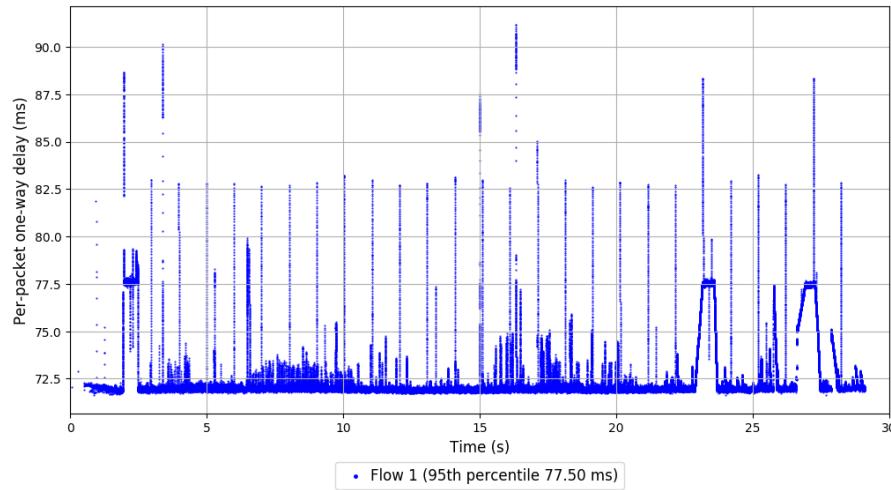
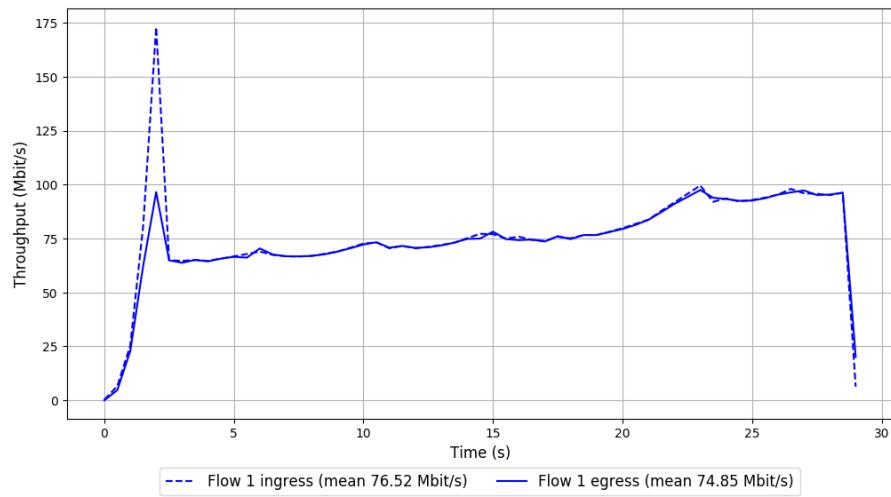


Run 10: Statistics of PCC

```
Start at: Mon, 24 Jul 2017 22:58:53 +0000
End at: Mon, 24 Jul 2017 22:59:23 +0000
Local clock offset: -0.113 ms
Remote clock offset: 8.213 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:56 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.85 Mbit/s
95th percentile per-packet one-way delay: 77.502 ms
Loss rate: 2.17%
-- Flow 1:
Average throughput: 74.85 Mbit/s
95th percentile per-packet one-way delay: 77.502 ms
Loss rate: 2.17%
```

Run 10: Report of PCC — Data Link

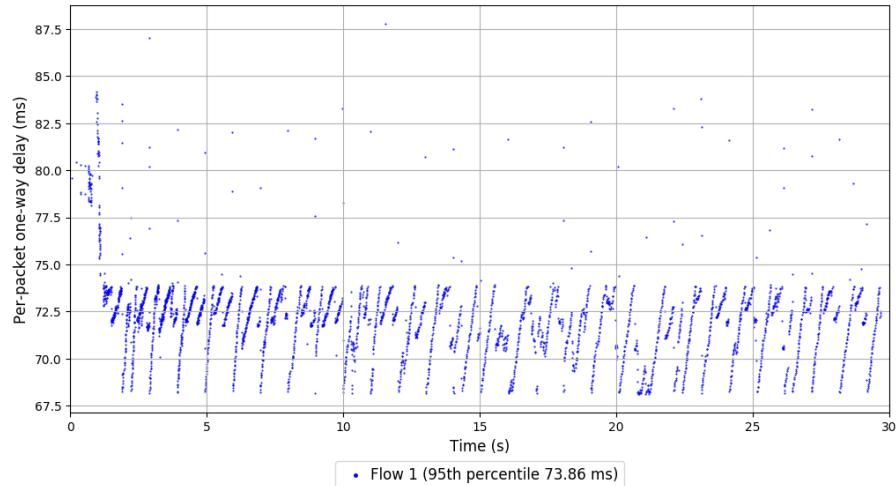
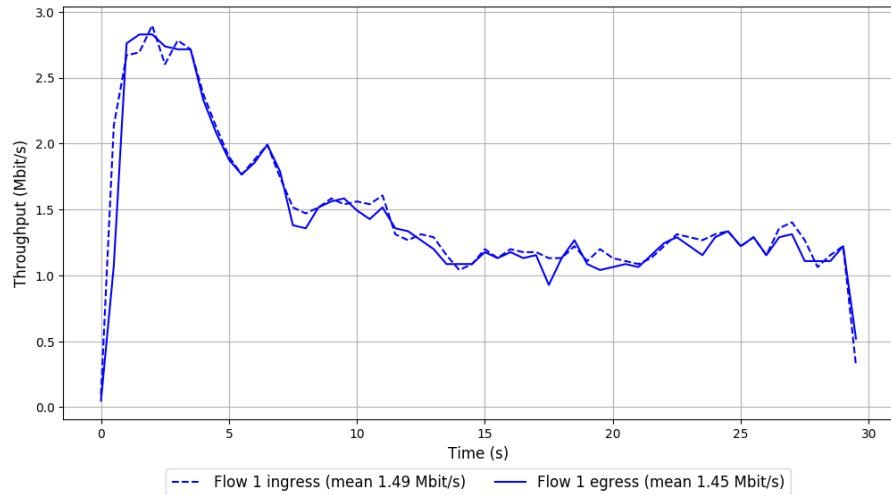


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: Mon, 24 Jul 2017 20:05:21 +0000
End at: Mon, 24 Jul 2017 20:05:51 +0000
Local clock offset: -0.208 ms
Remote clock offset: 3.181 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:56 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.45 Mbit/s
95th percentile per-packet one-way delay: 73.861 ms
Loss rate: 2.69%
-- Flow 1:
Average throughput: 1.45 Mbit/s
95th percentile per-packet one-way delay: 73.861 ms
Loss rate: 2.69%
```

Run 1: Report of QUIC Cubic — Data Link

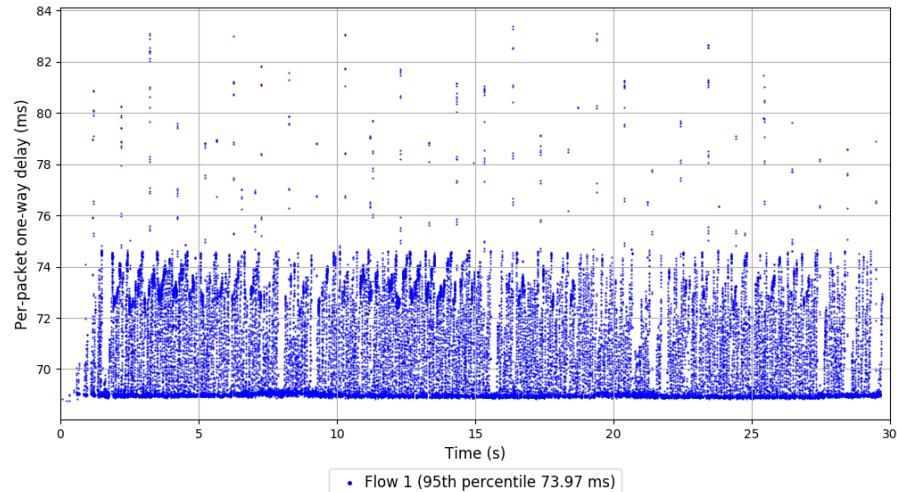
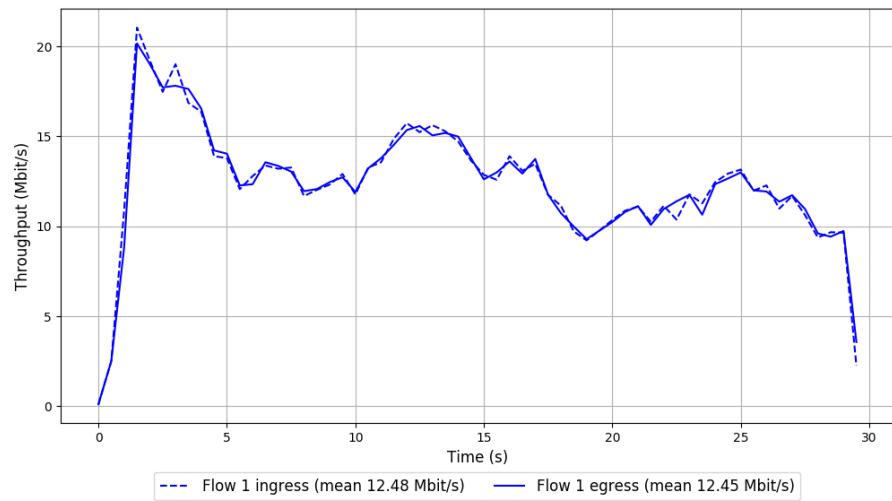


Run 2: Statistics of QUIC Cubic

```
Start at: Mon, 24 Jul 2017 20:24:28 +0000
End at: Mon, 24 Jul 2017 20:24:58 +0000
Local clock offset: -1.276 ms
Remote clock offset: 8.39 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:56 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.45 Mbit/s
95th percentile per-packet one-way delay: 73.965 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 12.45 Mbit/s
95th percentile per-packet one-way delay: 73.965 ms
Loss rate: 0.23%
```

Run 2: Report of QUIC Cubic — Data Link

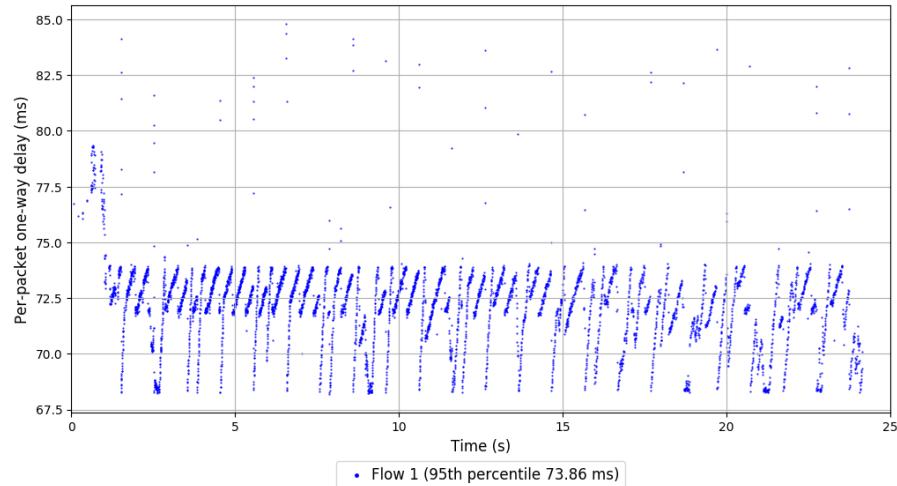
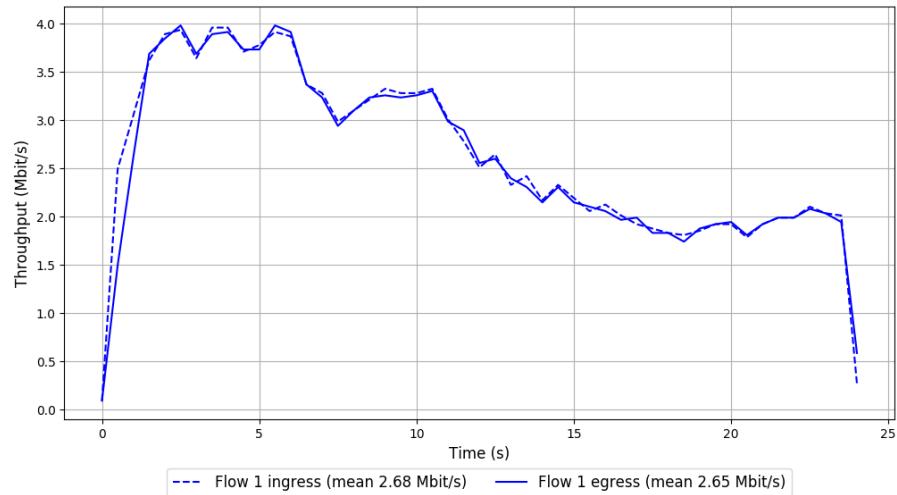


Run 3: Statistics of QUIC Cubic

```
Start at: Mon, 24 Jul 2017 20:43:33 +0000
End at: Mon, 24 Jul 2017 20:44:03 +0000
Local clock offset: -1.256 ms
Remote clock offset: 7.527 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:39:56 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.65 Mbit/s
95th percentile per-packet one-way delay: 73.855 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 2.65 Mbit/s
95th percentile per-packet one-way delay: 73.855 ms
Loss rate: 1.11%
```

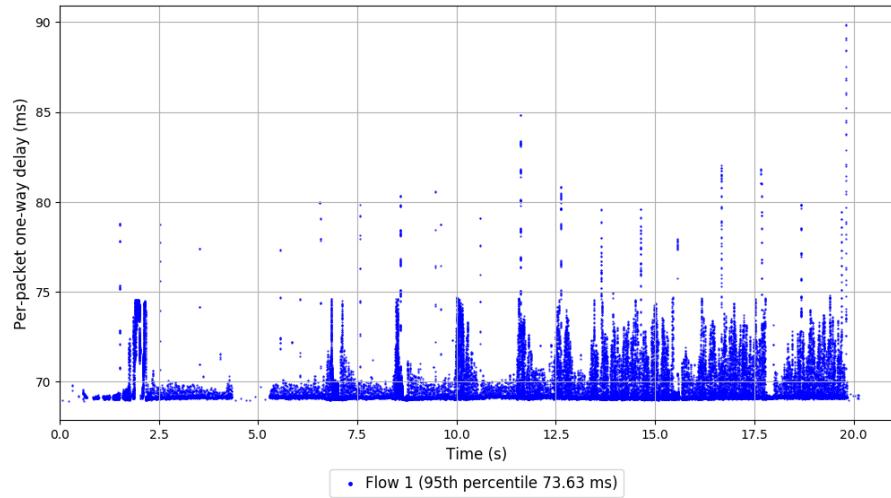
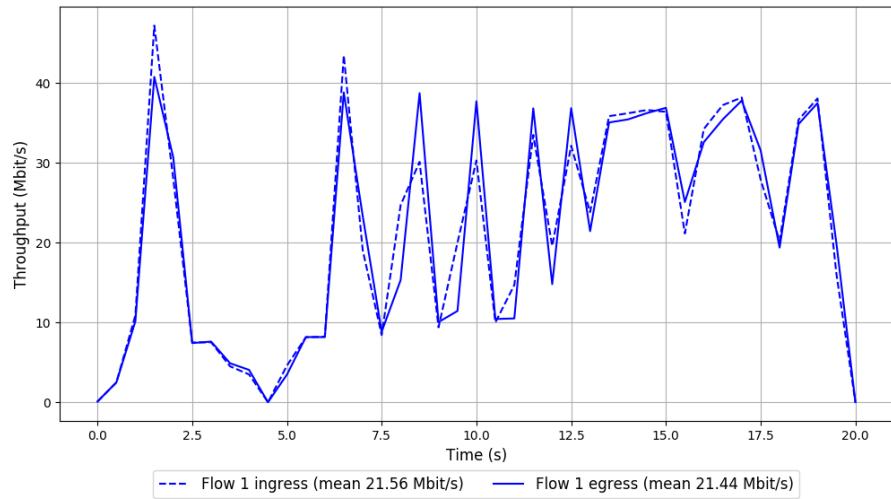
Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: Mon, 24 Jul 2017 21:02:40 +0000
End at: Mon, 24 Jul 2017 21:03:10 +0000
Local clock offset: -1.188 ms
Remote clock offset: 7.678 ms

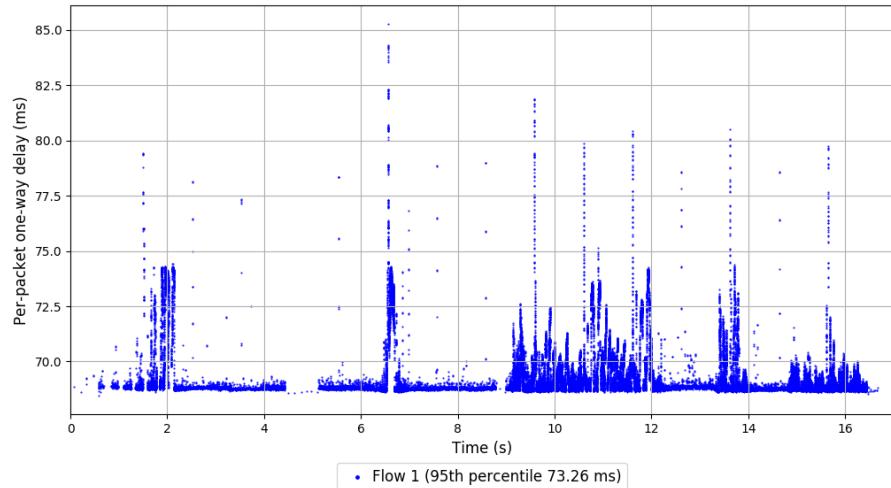
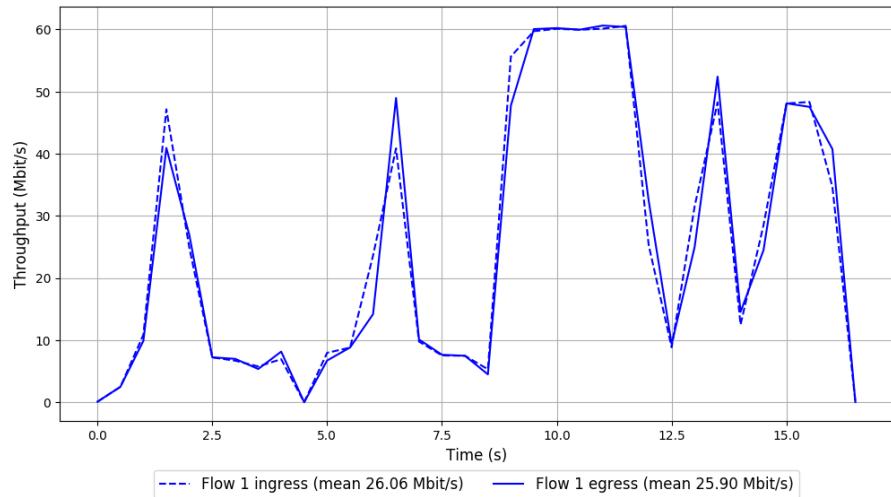
Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: Mon, 24 Jul 2017 21:21:53 +0000
End at: Mon, 24 Jul 2017 21:22:23 +0000
Local clock offset: -0.993 ms
Remote clock offset: 6.787 ms

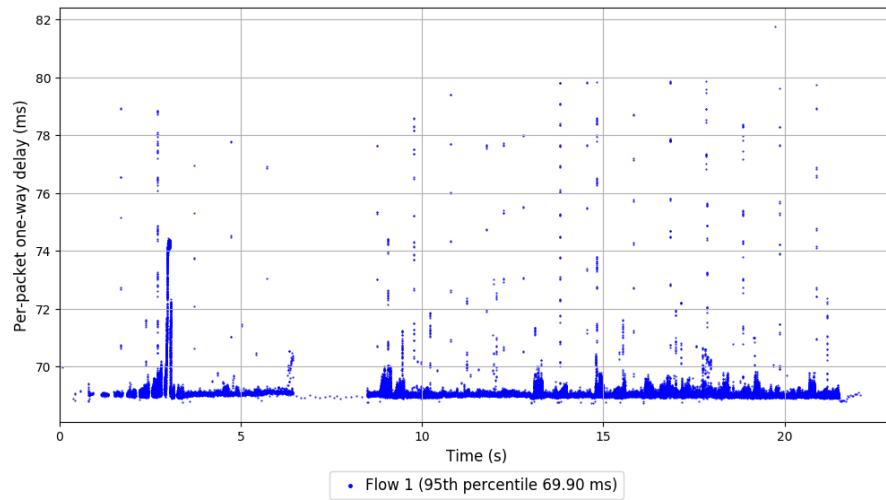
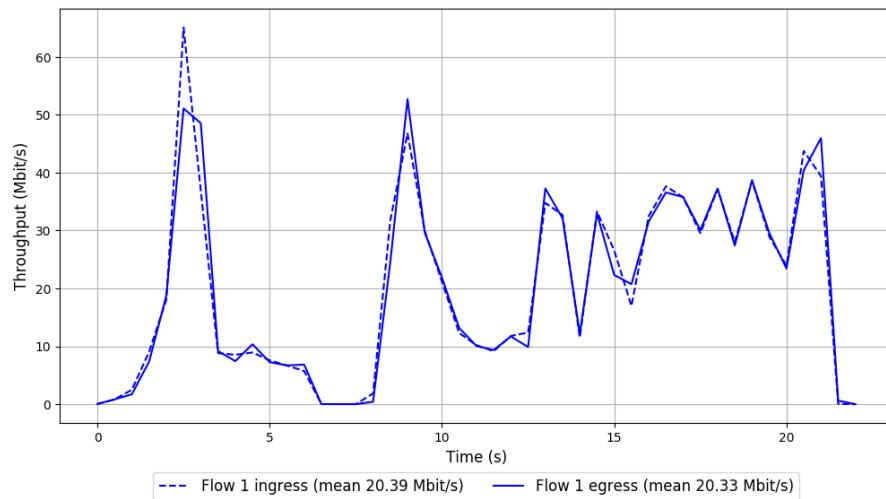
Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: Mon, 24 Jul 2017 21:41:31 +0000
End at: Mon, 24 Jul 2017 21:42:01 +0000
Local clock offset: -0.804 ms
Remote clock offset: 6.89 ms

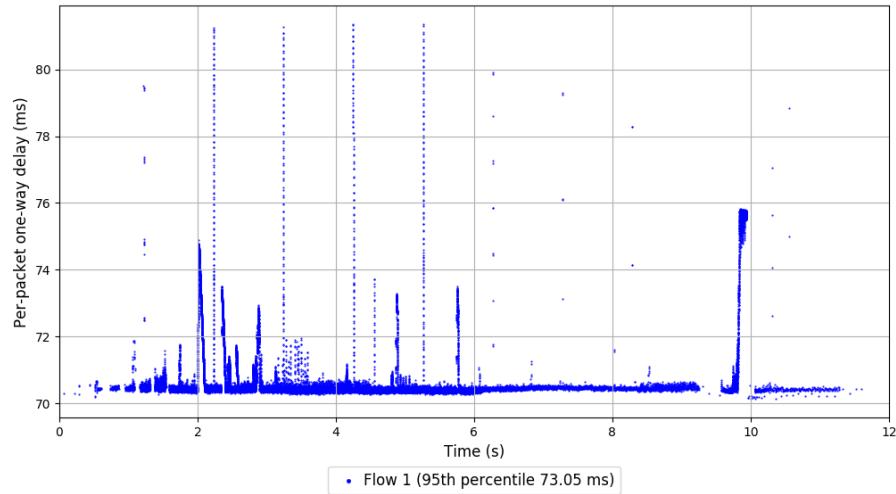
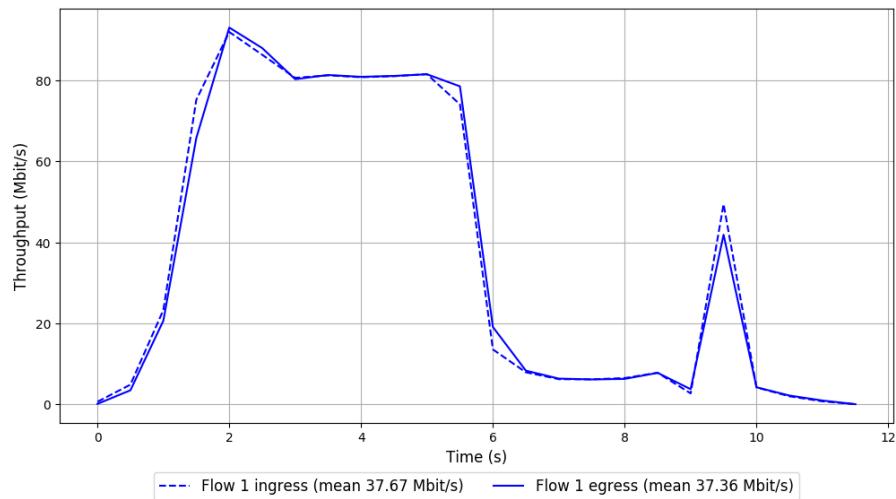
Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: Mon, 24 Jul 2017 22:02:12 +0000
End at: Mon, 24 Jul 2017 22:02:42 +0000
Local clock offset: 0.931 ms
Remote clock offset: 7.649 ms

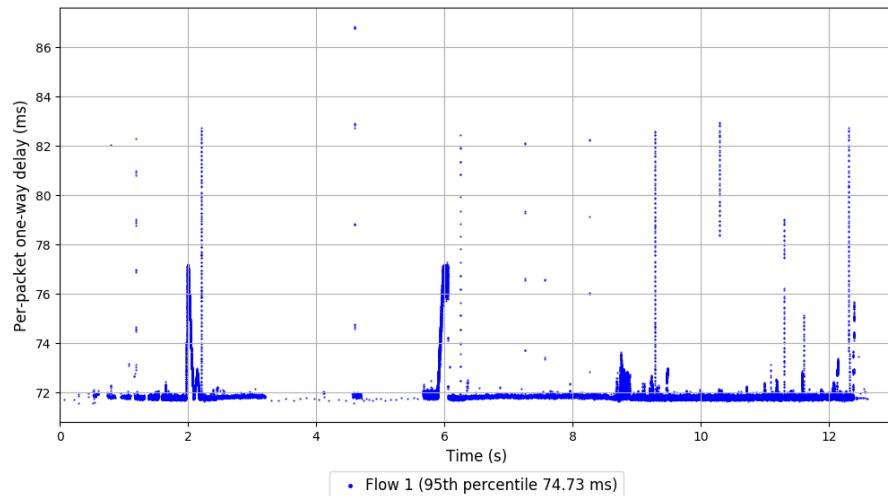
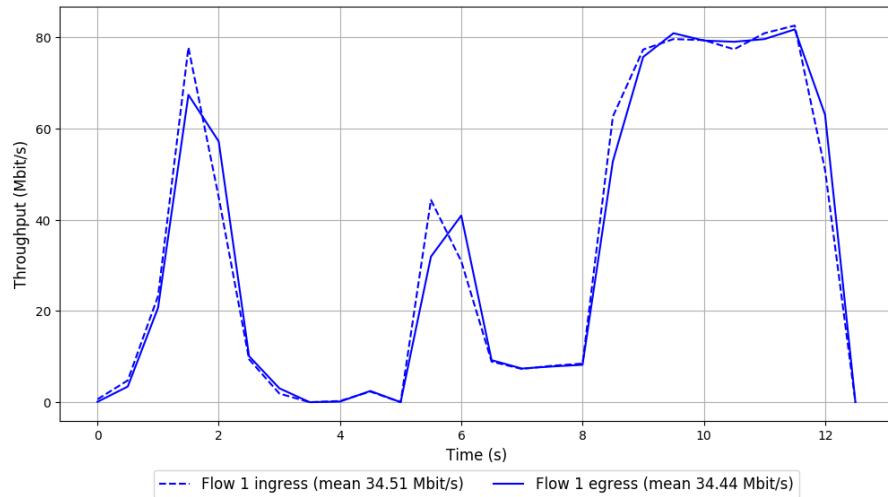
Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: Mon, 24 Jul 2017 22:21:17 +0000
End at: Mon, 24 Jul 2017 22:21:47 +0000
Local clock offset: -0.292 ms
Remote clock offset: 8.617 ms

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

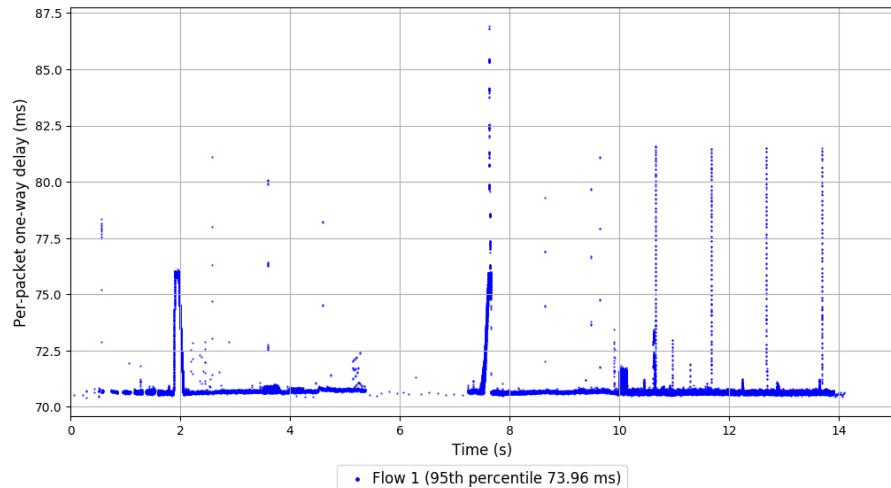
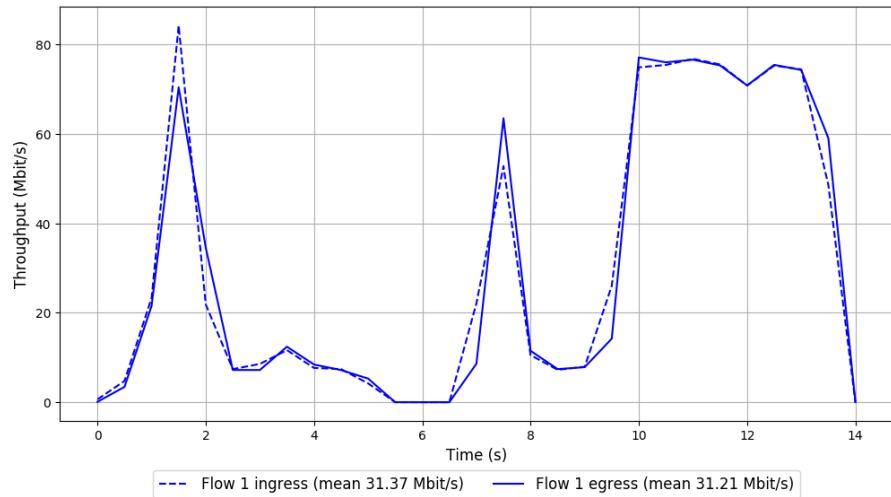
Start at: Mon, 24 Jul 2017 22:41:09 +0000

End at: Mon, 24 Jul 2017 22:41:39 +0000

Local clock offset: 1.094 ms

Remote clock offset: 8.84 ms

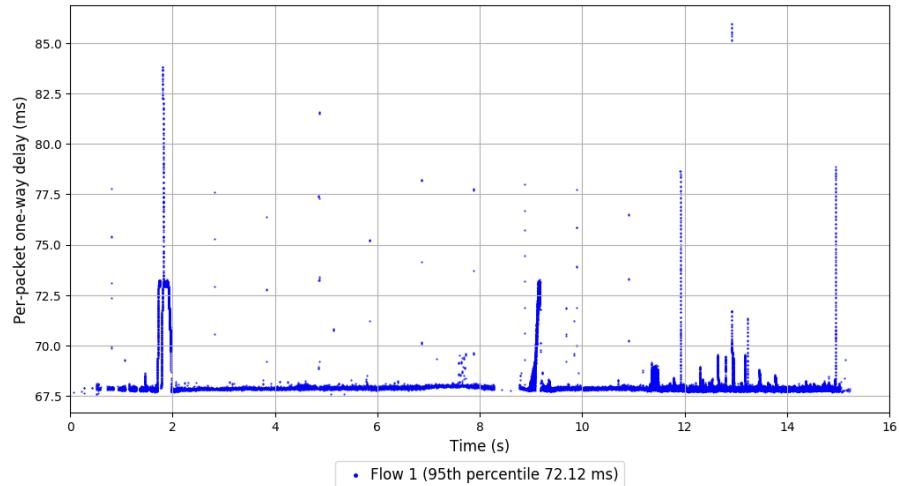
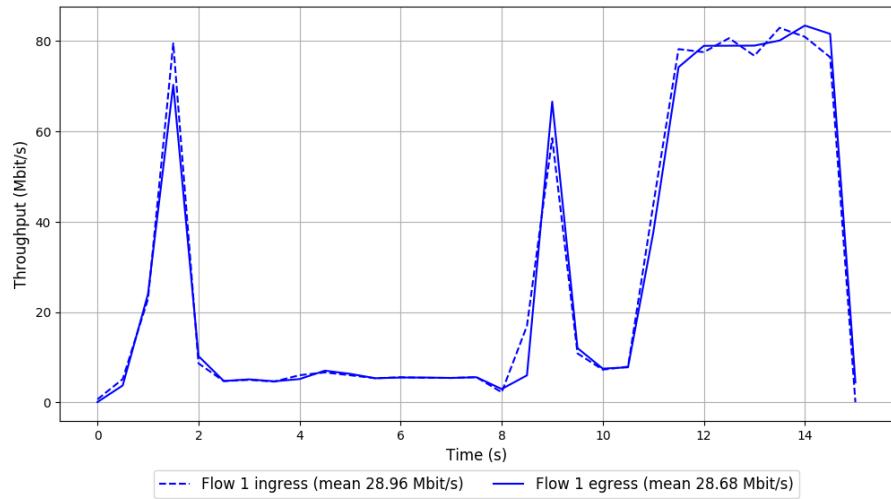
Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: Mon, 24 Jul 2017 23:00:10 +0000
End at: Mon, 24 Jul 2017 23:00:40 +0000
Local clock offset: 1.161 ms
Remote clock offset: 8.101 ms

Run 10: Report of QUIC Cubic — Data Link

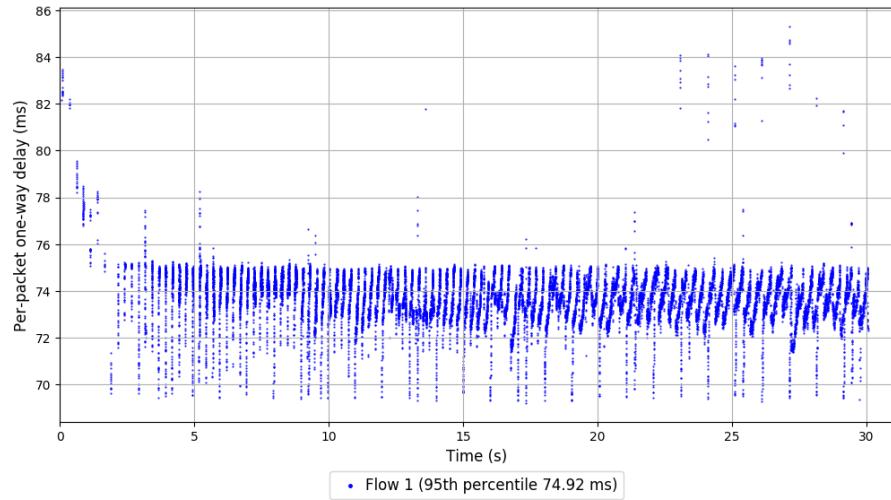
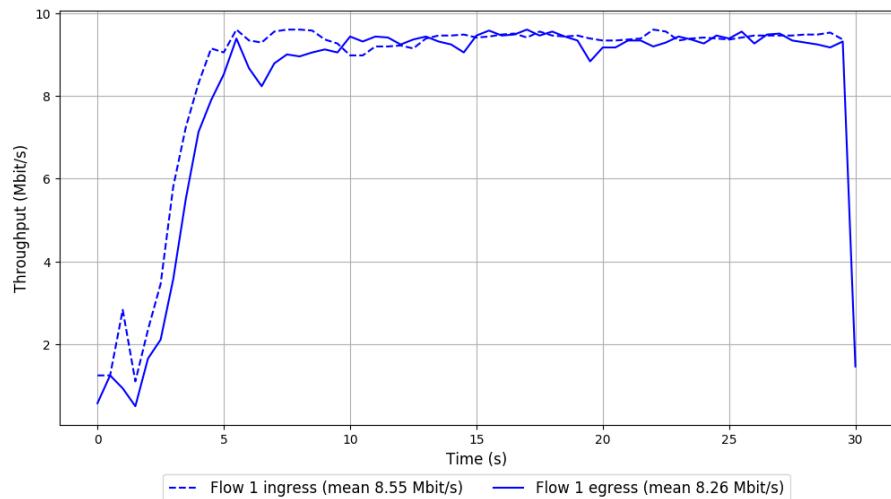


Run 1: Statistics of Saturator

```
Start at: Mon, 24 Jul 2017 20:14:16 +0000
End at: Mon, 24 Jul 2017 20:14:46 +0000
Local clock offset: -0.177 ms
Remote clock offset: 5.727 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:40:04 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.26 Mbit/s
95th percentile per-packet one-way delay: 74.915 ms
Loss rate: 3.35%
-- Flow 1:
Average throughput: 8.26 Mbit/s
95th percentile per-packet one-way delay: 74.915 ms
Loss rate: 3.35%
```

Run 1: Report of Saturator — Data Link

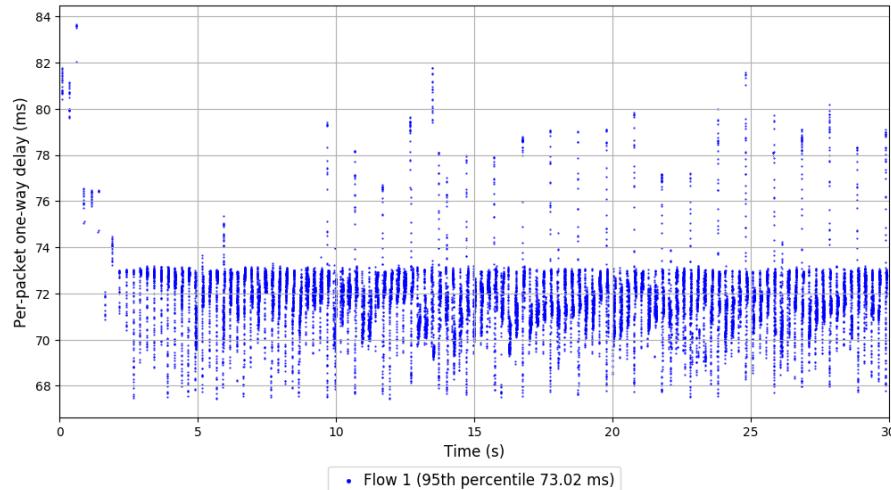
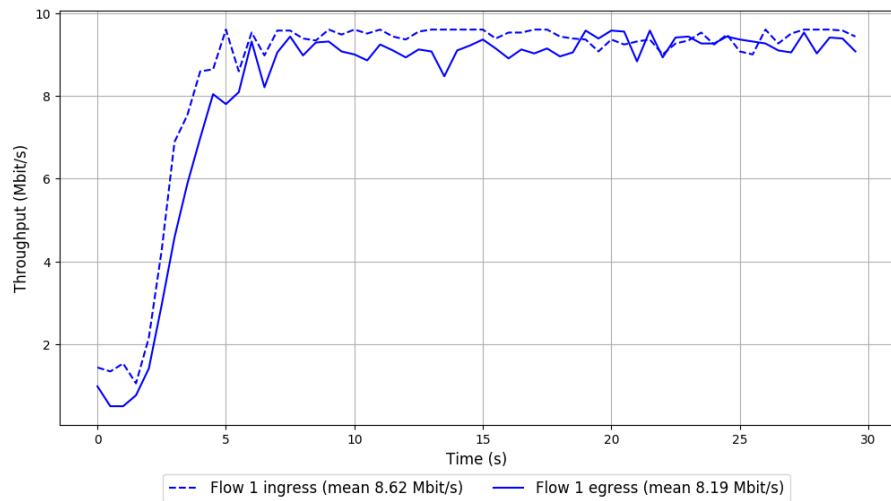


Run 2: Statistics of Saturator

```
Start at: Mon, 24 Jul 2017 20:33:27 +0000
End at: Mon, 24 Jul 2017 20:33:57 +0000
Local clock offset: -0.042 ms
Remote clock offset: 8.234 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:40:05 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.19 Mbit/s
95th percentile per-packet one-way delay: 73.019 ms
Loss rate: 5.01%
-- Flow 1:
Average throughput: 8.19 Mbit/s
95th percentile per-packet one-way delay: 73.019 ms
Loss rate: 5.01%
```

Run 2: Report of Saturator — Data Link

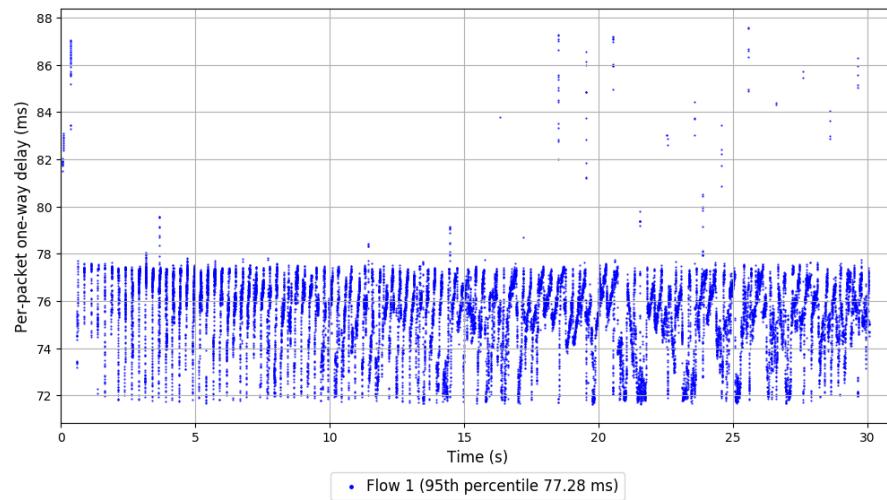
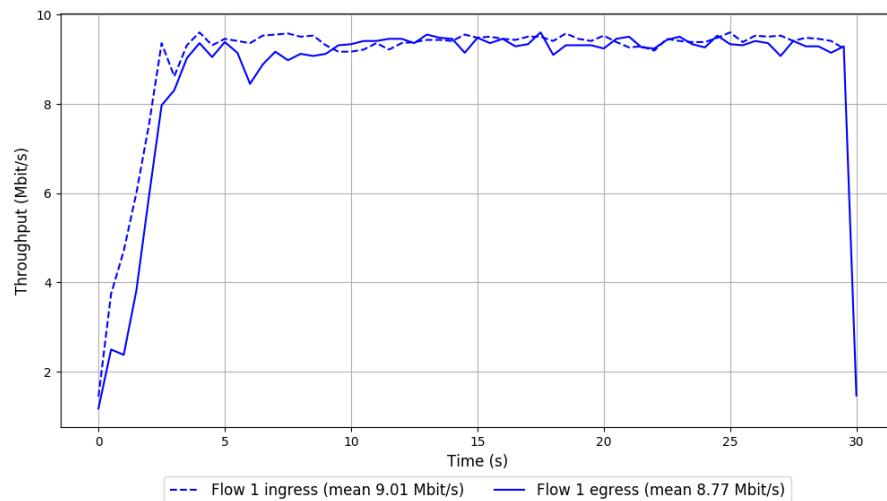


Run 3: Statistics of Saturator

```
Start at: Mon, 24 Jul 2017 20:52:32 +0000
End at: Mon, 24 Jul 2017 20:53:02 +0000
Local clock offset: -1.183 ms
Remote clock offset: 8.19 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:40:06 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.77 Mbit/s
95th percentile per-packet one-way delay: 77.275 ms
Loss rate: 2.72%
-- Flow 1:
Average throughput: 8.77 Mbit/s
95th percentile per-packet one-way delay: 77.275 ms
Loss rate: 2.72%
```

Run 3: Report of Saturator — Data Link

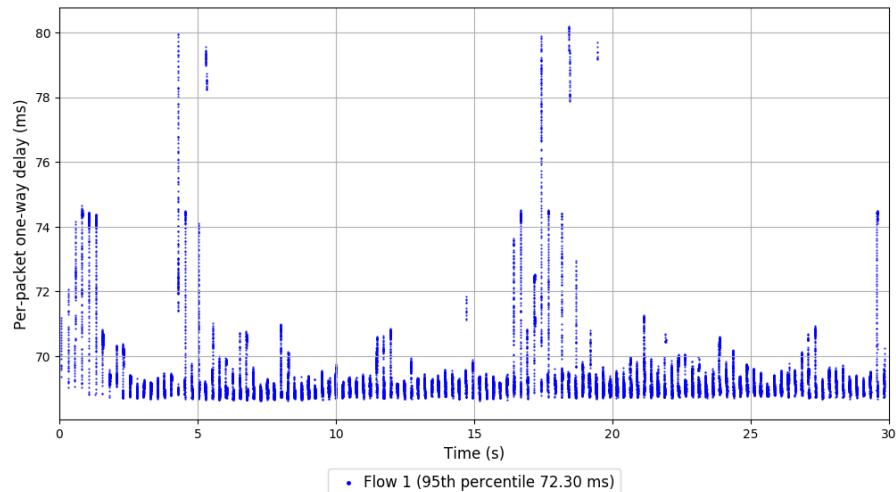
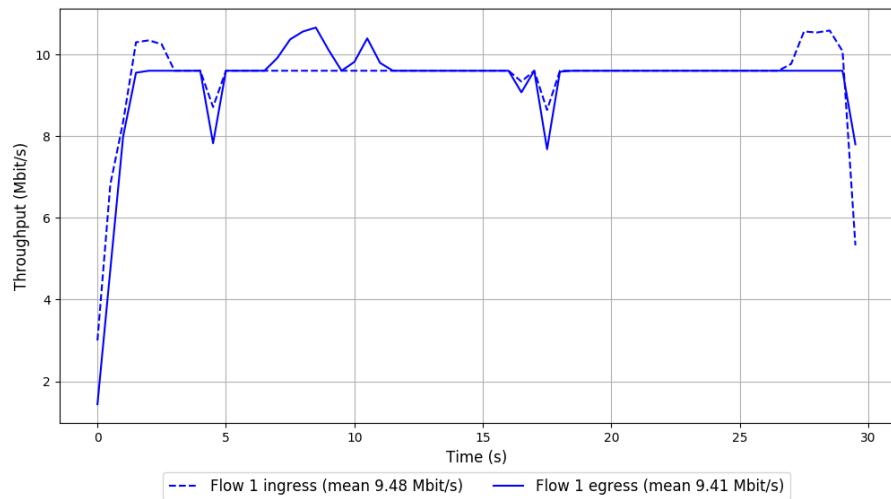


Run 4: Statistics of Saturator

```
Start at: Mon, 24 Jul 2017 21:11:39 +0000
End at: Mon, 24 Jul 2017 21:12:09 +0000
Local clock offset: -1.048 ms
Remote clock offset: 7.388 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:40:07 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.41 Mbit/s
95th percentile per-packet one-way delay: 72.296 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 9.41 Mbit/s
95th percentile per-packet one-way delay: 72.296 ms
Loss rate: 0.80%
```

Run 4: Report of Saturator — Data Link

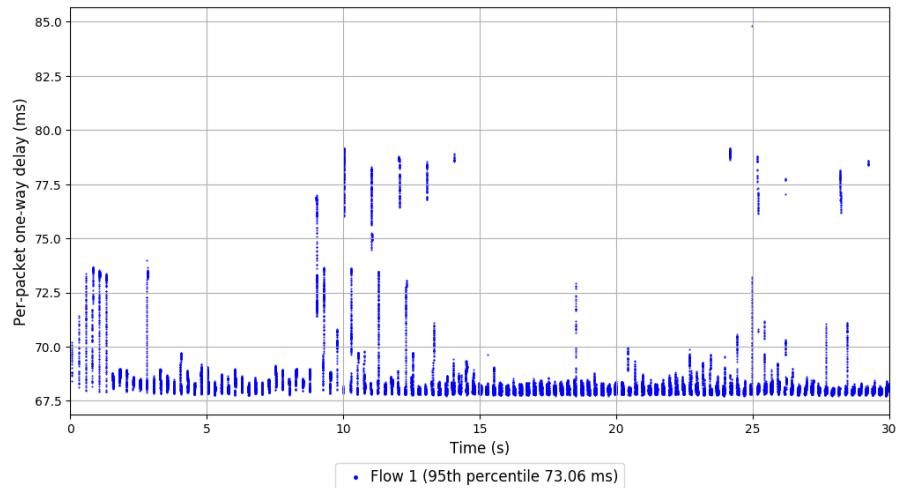
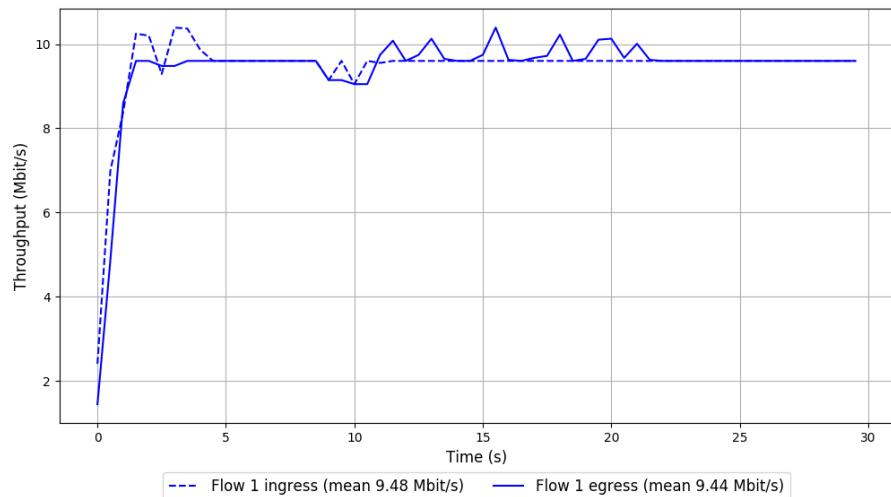


Run 5: Statistics of Saturator

```
Start at: Mon, 24 Jul 2017 21:30:55 +0000
End at: Mon, 24 Jul 2017 21:31:25 +0000
Local clock offset: 0.318 ms
Remote clock offset: 6.739 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:40:09 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.44 Mbit/s
95th percentile per-packet one-way delay: 73.064 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 9.44 Mbit/s
95th percentile per-packet one-way delay: 73.064 ms
Loss rate: 0.38%
```

Run 5: Report of Saturator — Data Link

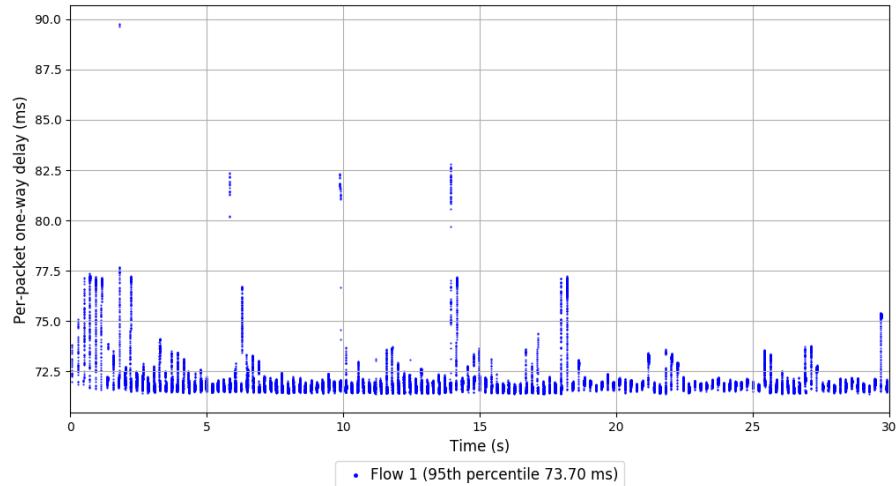
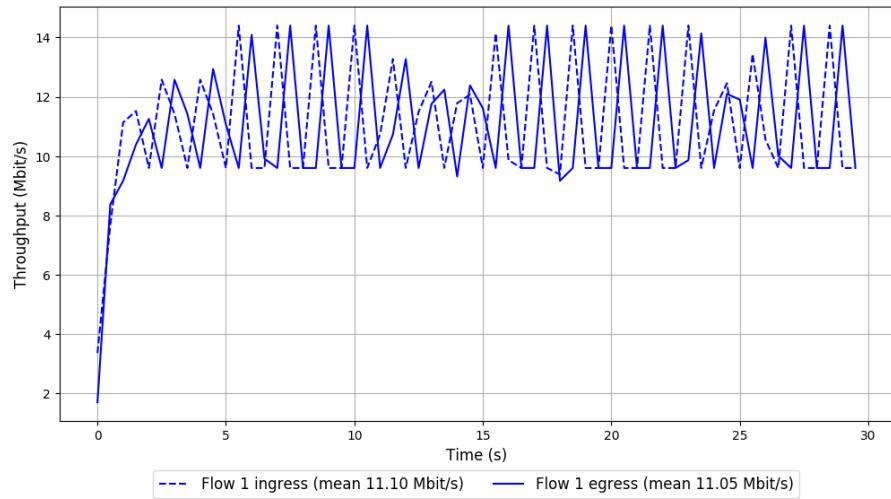


Run 6: Statistics of Saturator

```
Start at: Mon, 24 Jul 2017 21:51:58 +0000
End at: Mon, 24 Jul 2017 21:52:28 +0000
Local clock offset: -0.623 ms
Remote clock offset: 7.228 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:40:10 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.05 Mbit/s
95th percentile per-packet one-way delay: 73.696 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 11.05 Mbit/s
95th percentile per-packet one-way delay: 73.696 ms
Loss rate: 0.42%
```

Run 6: Report of Saturator — Data Link



Run 7: Statistics of Saturator

Start at: Mon, 24 Jul 2017 22:11:04 +0000

End at: Mon, 24 Jul 2017 22:11:34 +0000

Local clock offset: -0.373 ms

Remote clock offset: 8.136 ms

Below is generated by plot.py at Tue, 25 Jul 2017 02:40:11 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.21 Mbit/s

95th percentile per-packet one-way delay: 72.172 ms

Loss rate: 0.37%

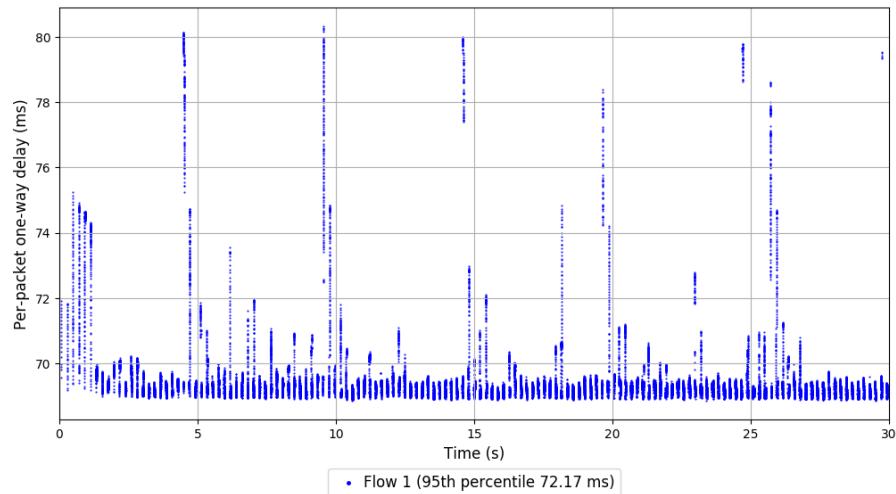
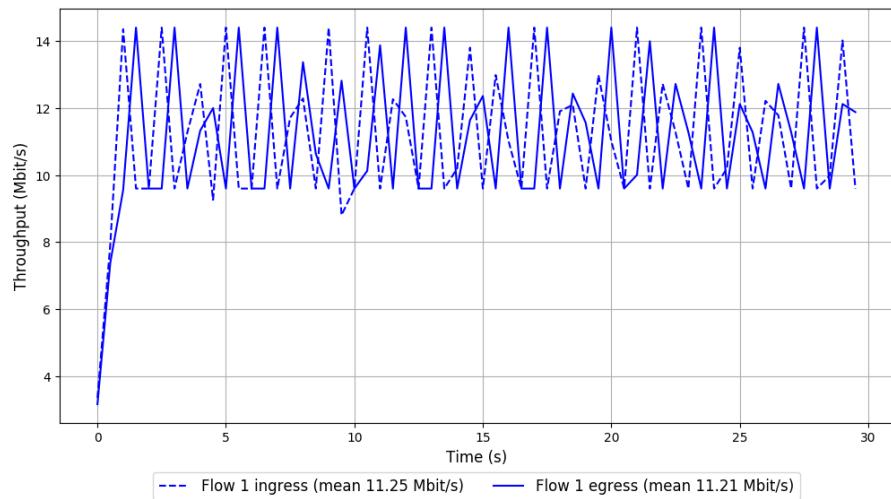
-- Flow 1:

Average throughput: 11.21 Mbit/s

95th percentile per-packet one-way delay: 72.172 ms

Loss rate: 0.37%

Run 7: Report of Saturator — Data Link

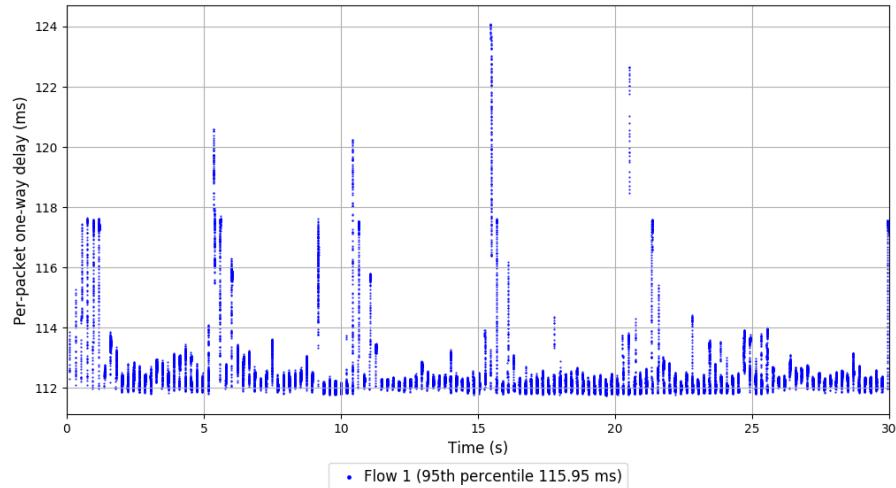
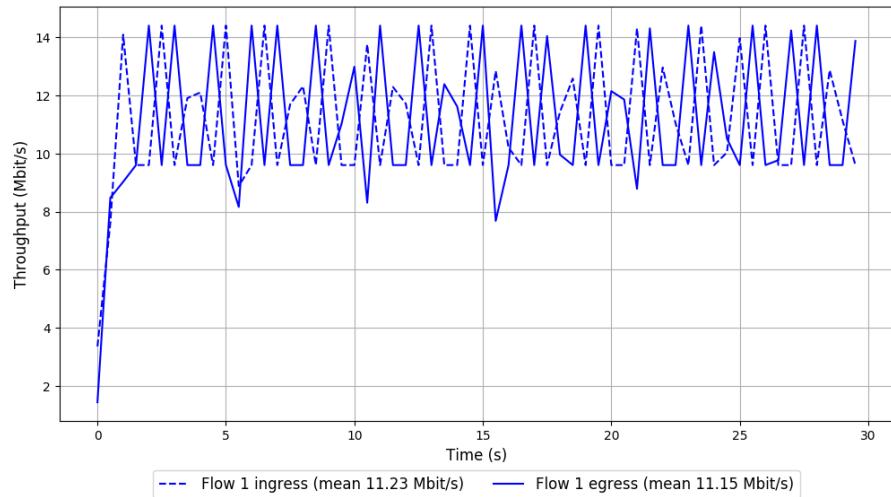


Run 8: Statistics of Saturator

```
Start at: Mon, 24 Jul 2017 22:30:57 +0000
End at: Mon, 24 Jul 2017 22:31:27 +0000
Local clock offset: -0.096 ms
Remote clock offset: 52.016 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:40:12 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.15 Mbit/s
95th percentile per-packet one-way delay: 115.952 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 11.15 Mbit/s
95th percentile per-packet one-way delay: 115.952 ms
Loss rate: 0.74%
```

Run 8: Report of Saturator — Data Link

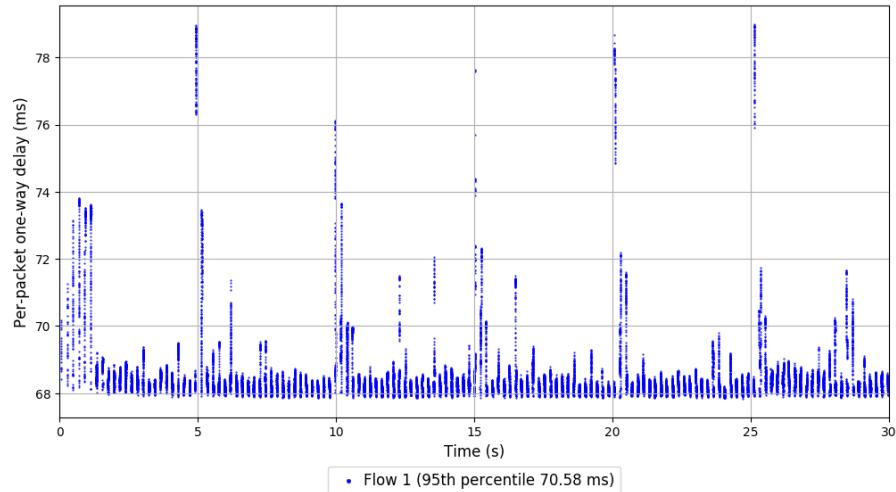
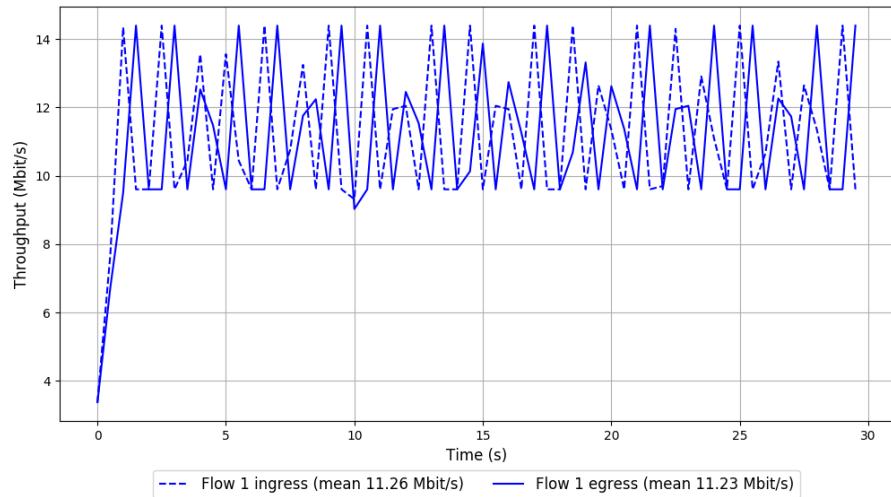


Run 9: Statistics of Saturator

```
Start at: Mon, 24 Jul 2017 22:50:01 +0000
End at: Mon, 24 Jul 2017 22:50:31 +0000
Local clock offset: 1.277 ms
Remote clock offset: 8.621 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:40:13 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.23 Mbit/s
95th percentile per-packet one-way delay: 70.584 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 11.23 Mbit/s
95th percentile per-packet one-way delay: 70.584 ms
Loss rate: 0.19%
```

Run 9: Report of Saturator — Data Link

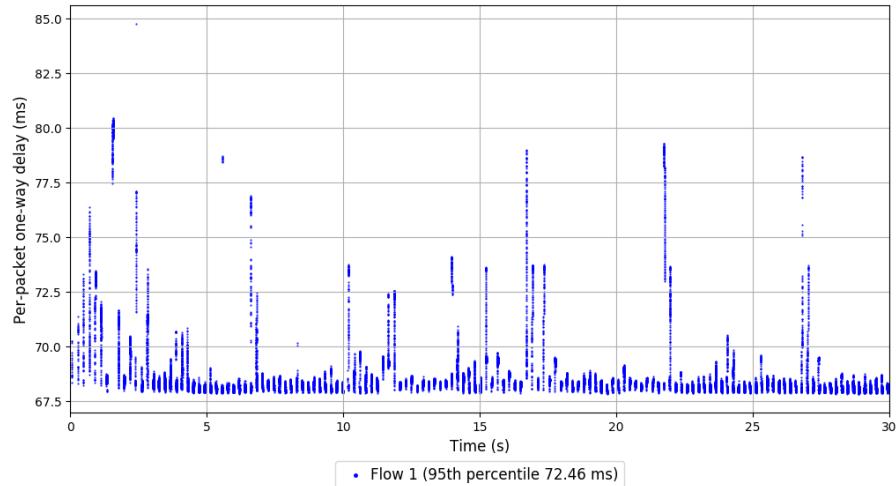
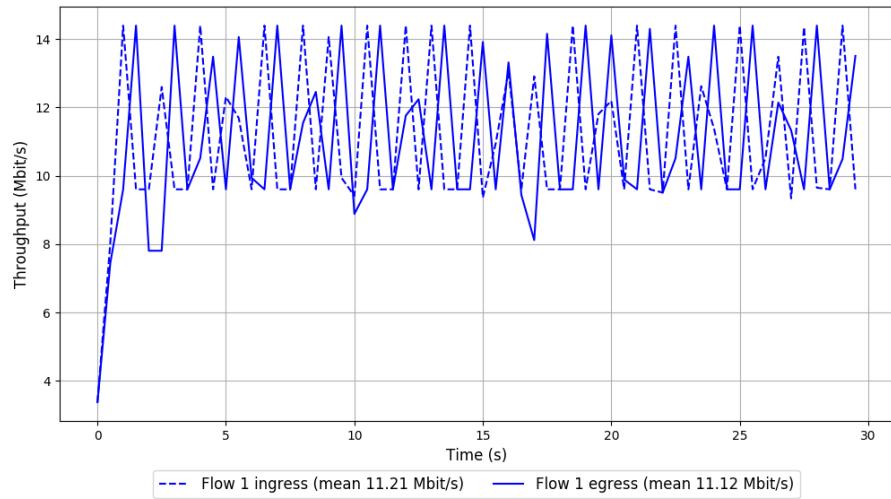


Run 10: Statistics of Saturator

```
Start at: Mon, 24 Jul 2017 23:08:59 +0000
End at: Mon, 24 Jul 2017 23:09:29 +0000
Local clock offset: 1.163 ms
Remote clock offset: 7.895 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:40:16 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.12 Mbit/s
95th percentile per-packet one-way delay: 72.459 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 11.12 Mbit/s
95th percentile per-packet one-way delay: 72.459 ms
Loss rate: 0.75%
```

Run 10: Report of Saturator — Data Link

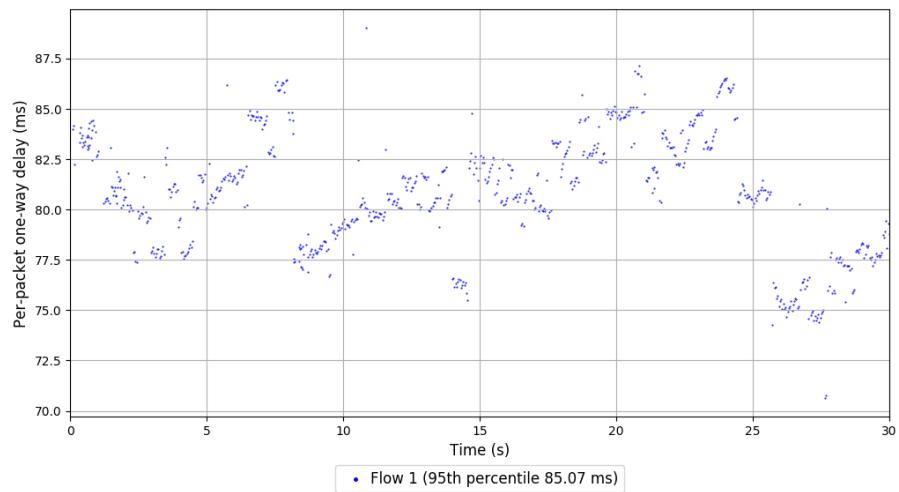
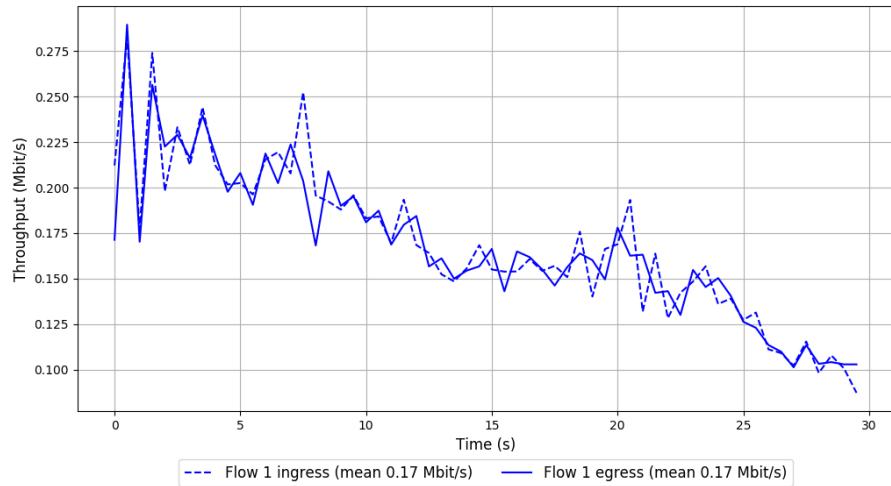


Run 1: Statistics of SCReAM

```
Start at: Mon, 24 Jul 2017 20:10:24 +0000
End at: Mon, 24 Jul 2017 20:10:54 +0000
Local clock offset: -1.369 ms
Remote clock offset: 5.038 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:40:16 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 85.066 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 85.066 ms
Loss rate: 0.88%
```

Run 1: Report of SCReAM — Data Link

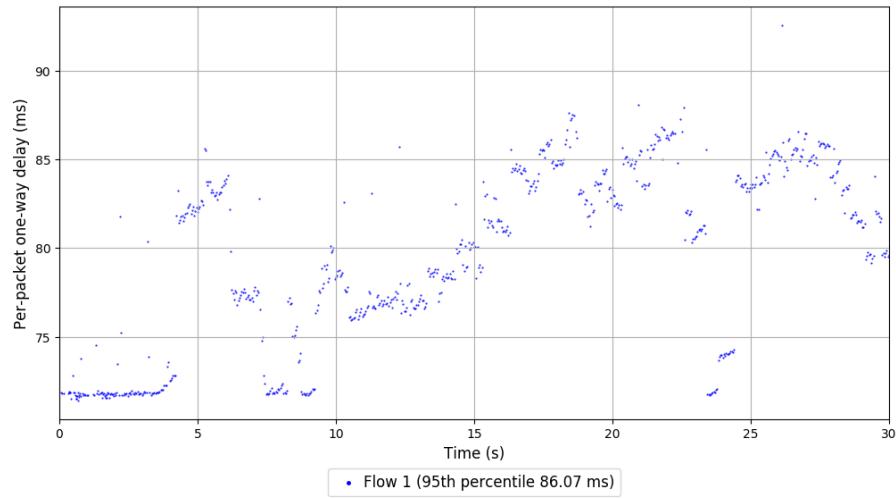
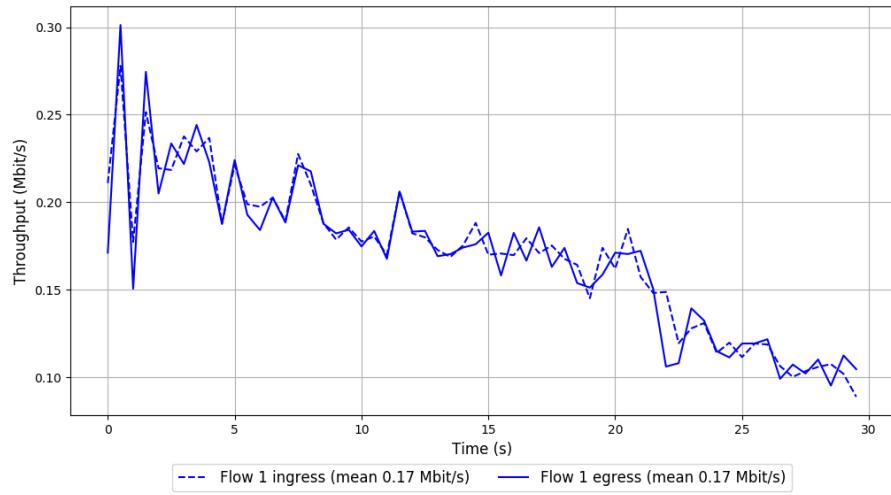


Run 2: Statistics of SCReAM

```
Start at: Mon, 24 Jul 2017 20:29:34 +0000
End at: Mon, 24 Jul 2017 20:30:04 +0000
Local clock offset: -1.355 ms
Remote clock offset: 8.767 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:40:16 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 86.073 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 86.073 ms
Loss rate: 0.80%
```

Run 2: Report of SCReAM — Data Link

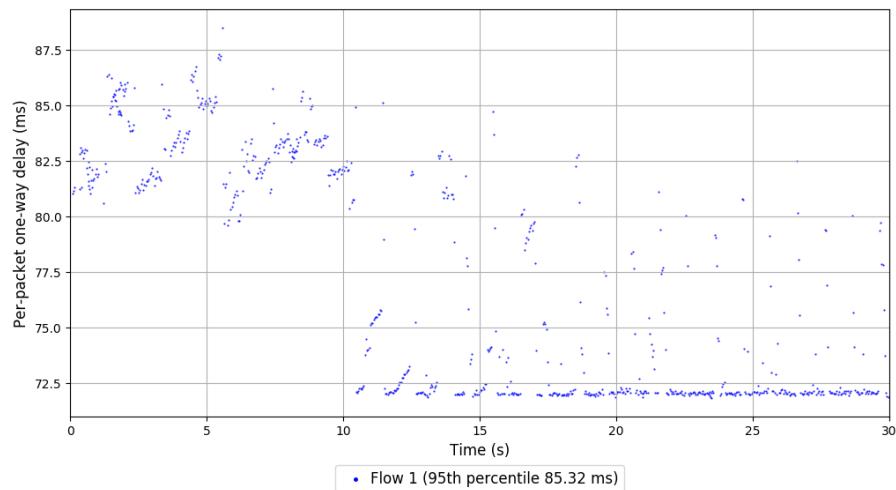
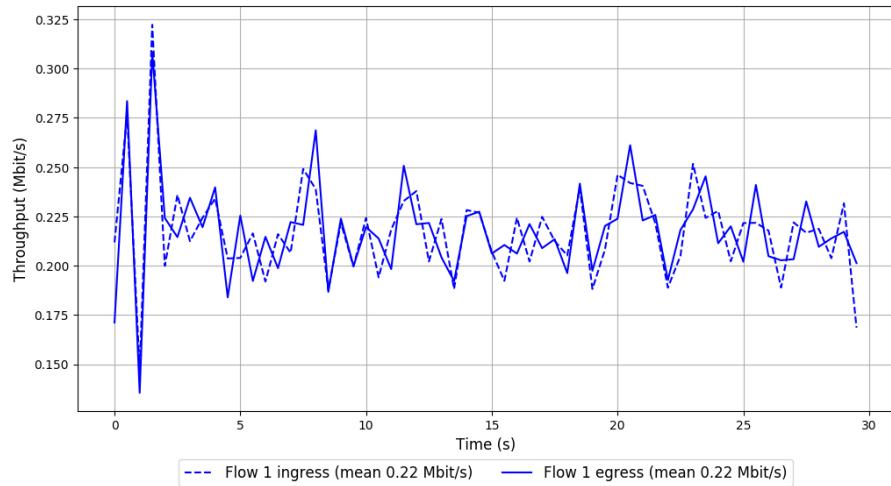


Run 3: Statistics of SCReAM

```
Start at: Mon, 24 Jul 2017 20:48:36 +0000
End at: Mon, 24 Jul 2017 20:49:06 +0000
Local clock offset: -1.207 ms
Remote clock offset: 8.235 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:40:16 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.316 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.316 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

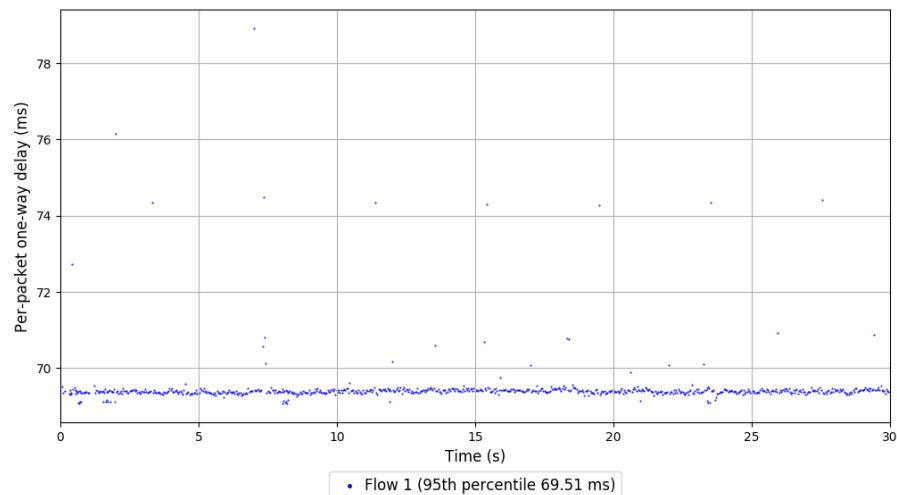
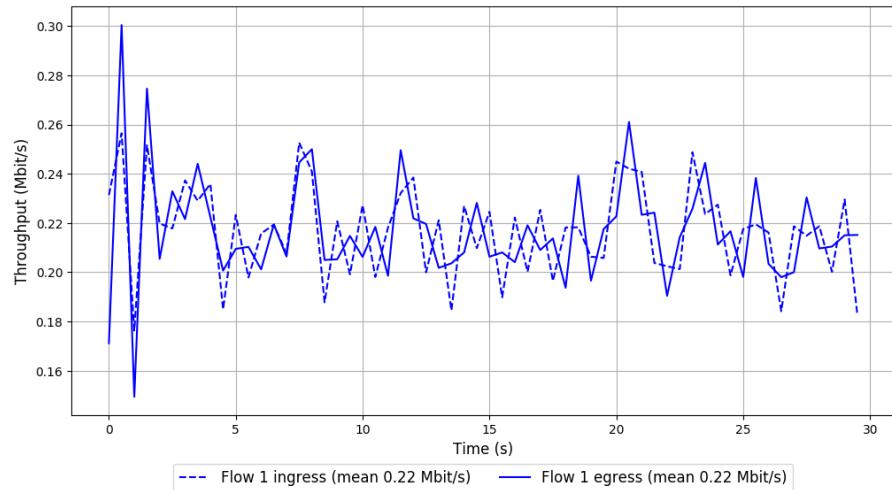


Run 4: Statistics of SCReAM

```
Start at: Mon, 24 Jul 2017 21:07:47 +0000
End at: Mon, 24 Jul 2017 21:08:17 +0000
Local clock offset: -1.226 ms
Remote clock offset: 7.481 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:40:17 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 69.506 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 69.506 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

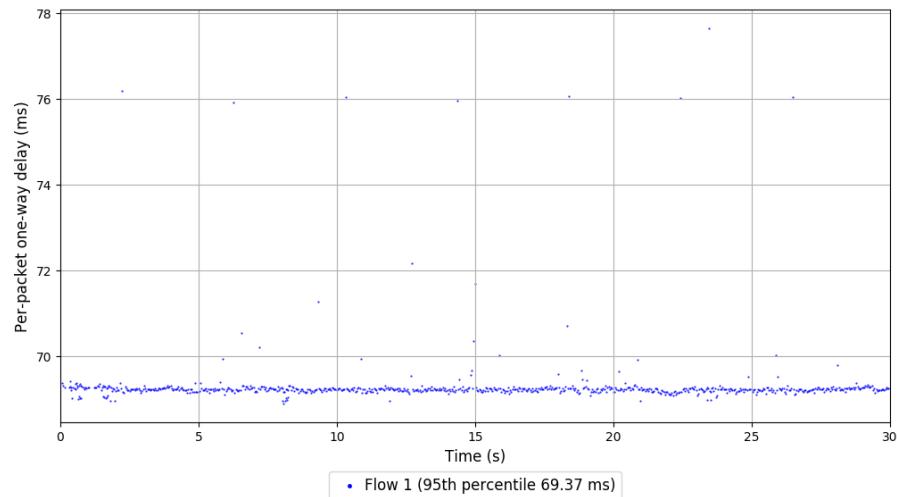
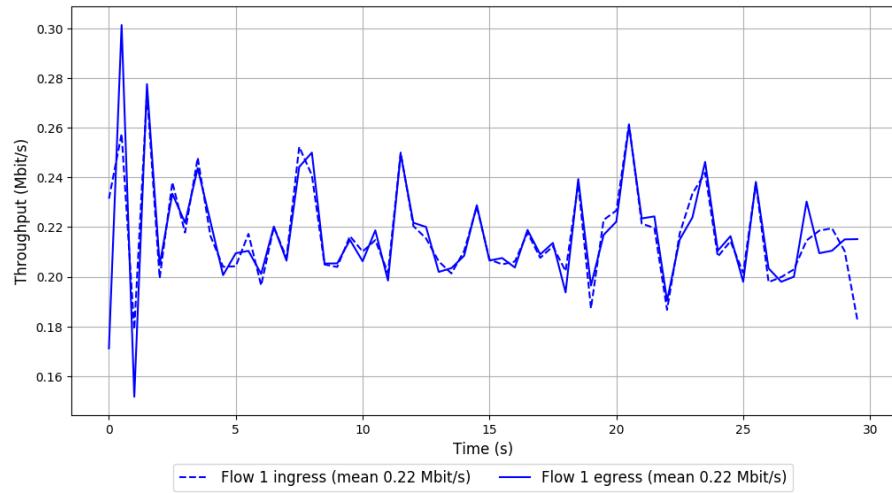


Run 5: Statistics of SCReAM

```
Start at: Mon, 24 Jul 2017 21:27:04 +0000
End at: Mon, 24 Jul 2017 21:27:34 +0000
Local clock offset: -0.931 ms
Remote clock offset: 6.708 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:40:17 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 69.371 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 69.371 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

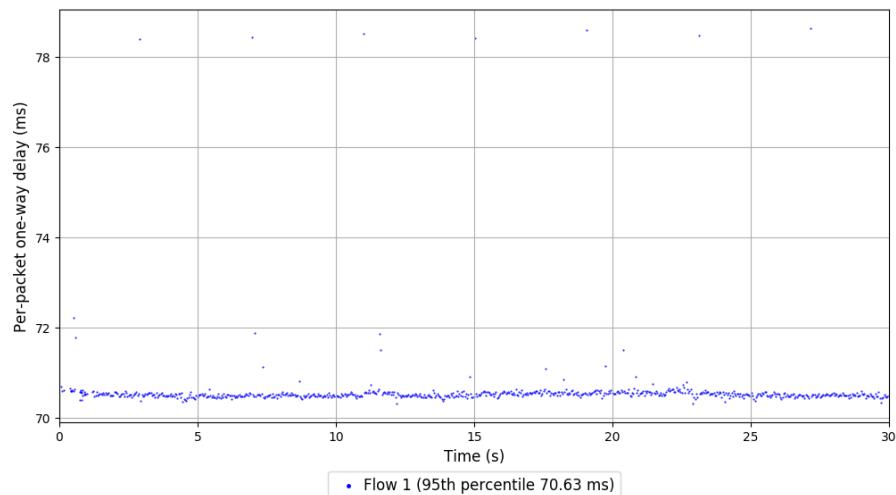
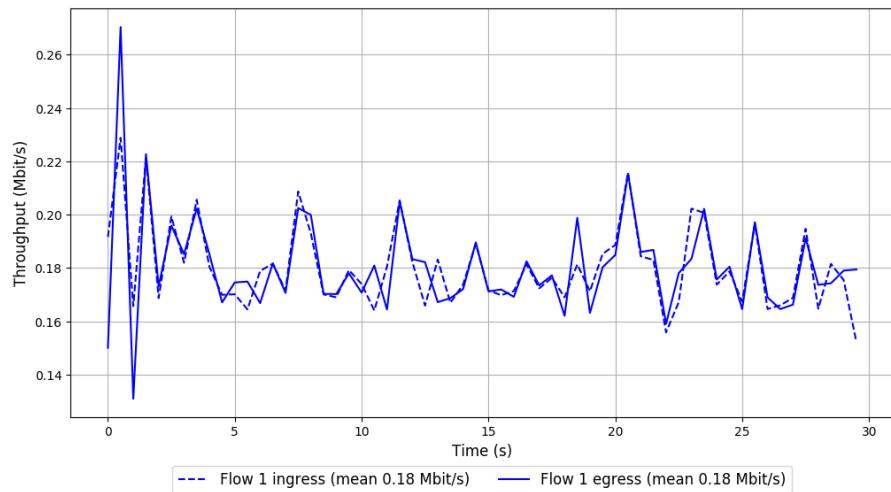


Run 6: Statistics of SCReAM

```
Start at: Mon, 24 Jul 2017 21:47:41 +0000
End at: Mon, 24 Jul 2017 21:48:11 +0000
Local clock offset: 0.534 ms
Remote clock offset: 7.115 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:40:18 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 70.633 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 70.633 ms
Loss rate: 0.00%
```

Run 6: Report of SCReAM — Data Link

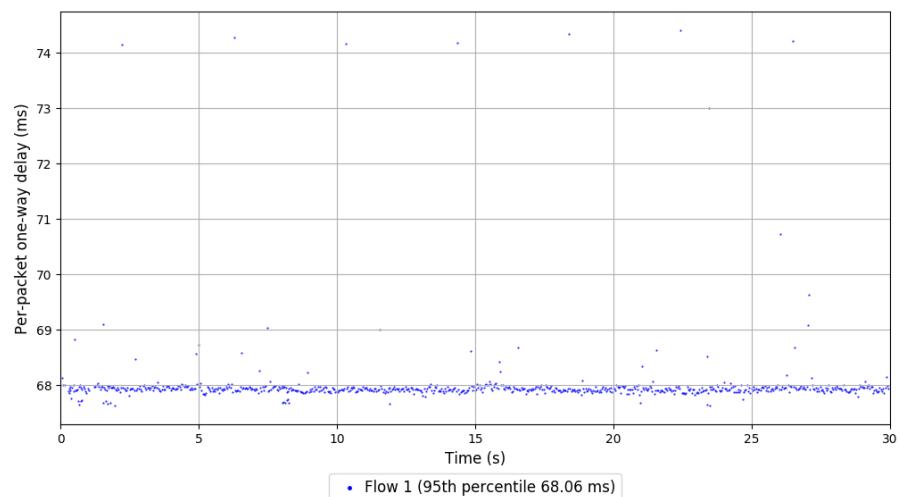
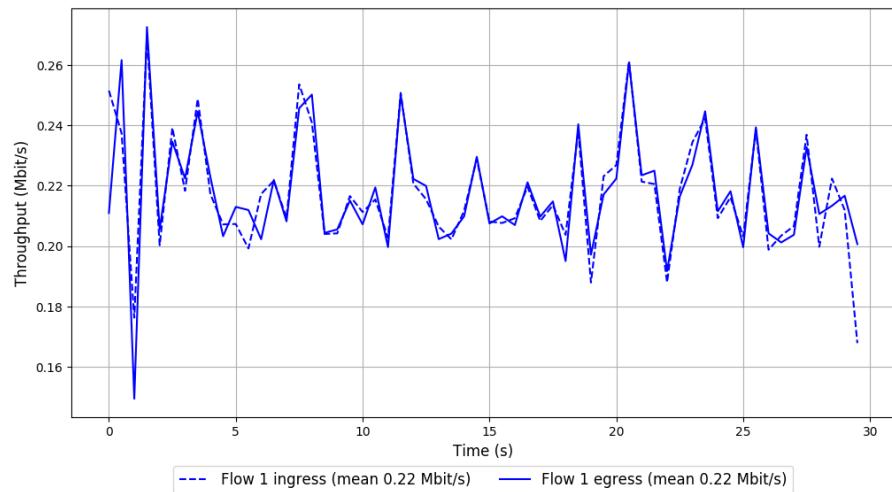


Run 7: Statistics of SCReAM

```
Start at: Mon, 24 Jul 2017 22:07:16 +0000
End at: Mon, 24 Jul 2017 22:07:46 +0000
Local clock offset: 0.866 ms
Remote clock offset: 7.778 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:40:19 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 68.055 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 68.055 ms
Loss rate: 0.00%
```

Run 7: Report of SCReAM — Data Link

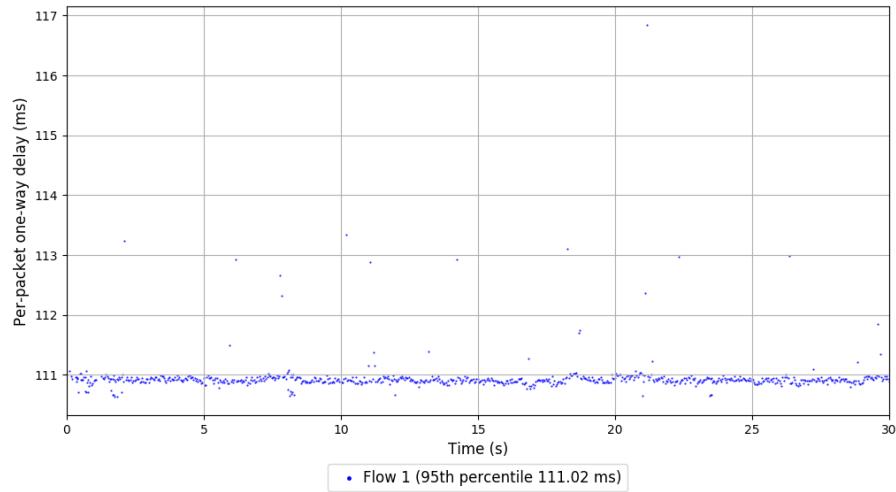
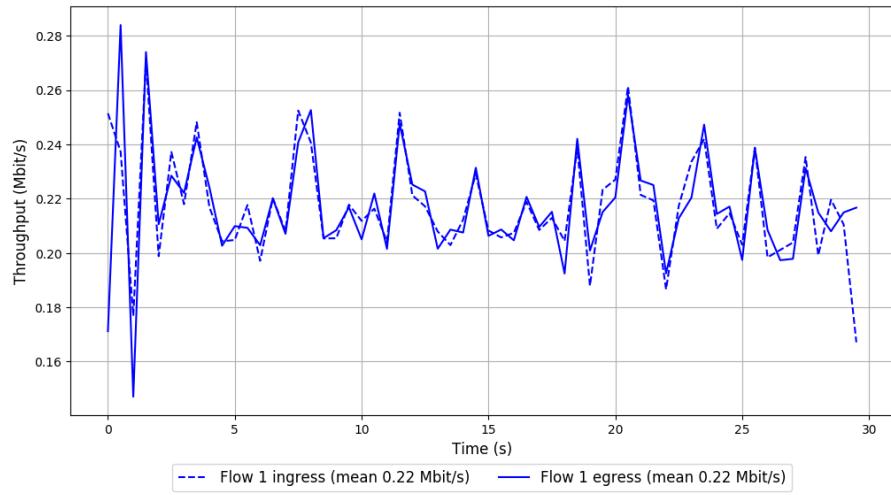


Run 8: Statistics of SCReAM

```
Start at: Mon, 24 Jul 2017 22:27:09 +0000
End at: Mon, 24 Jul 2017 22:27:39 +0000
Local clock offset: 1.007 ms
Remote clock offset: 51.81 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:40:19 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.017 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.017 ms
Loss rate: 0.00%
```

Run 8: Report of SCReAM — Data Link

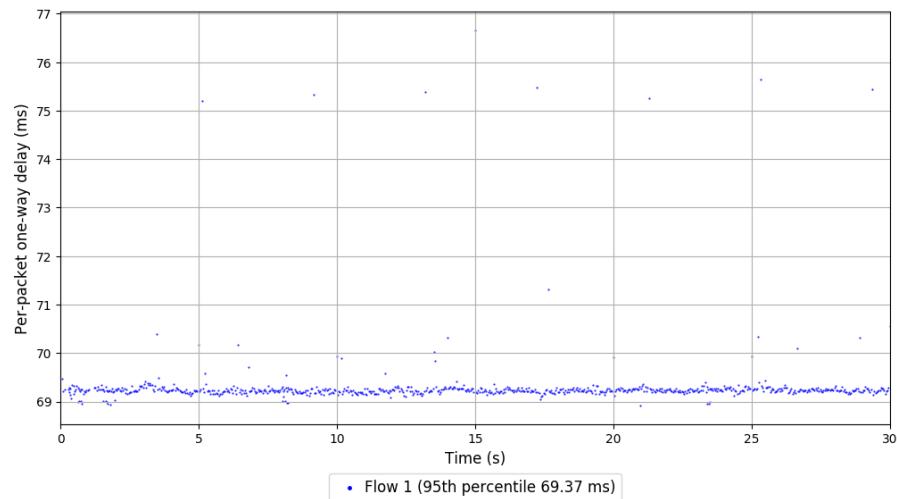
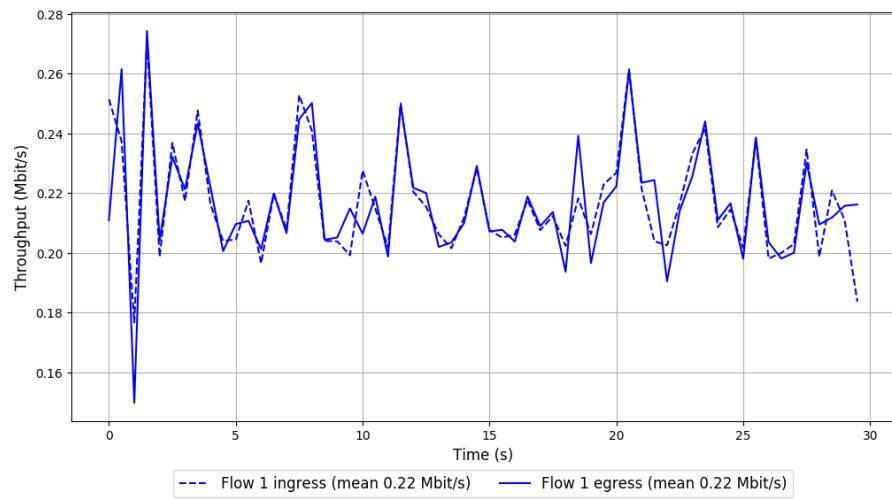


Run 9: Statistics of SCReAM

```
Start at: Mon, 24 Jul 2017 22:46:13 +0000
End at: Mon, 24 Jul 2017 22:46:43 +0000
Local clock offset: -0.095 ms
Remote clock offset: 8.725 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:40:20 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 69.366 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 69.366 ms
Loss rate: 0.00%
```

Run 9: Report of SCReAM — Data Link

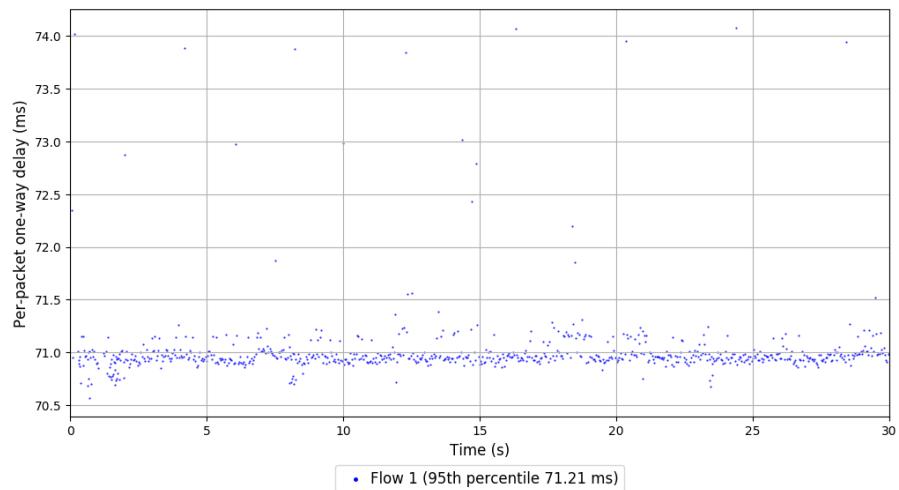
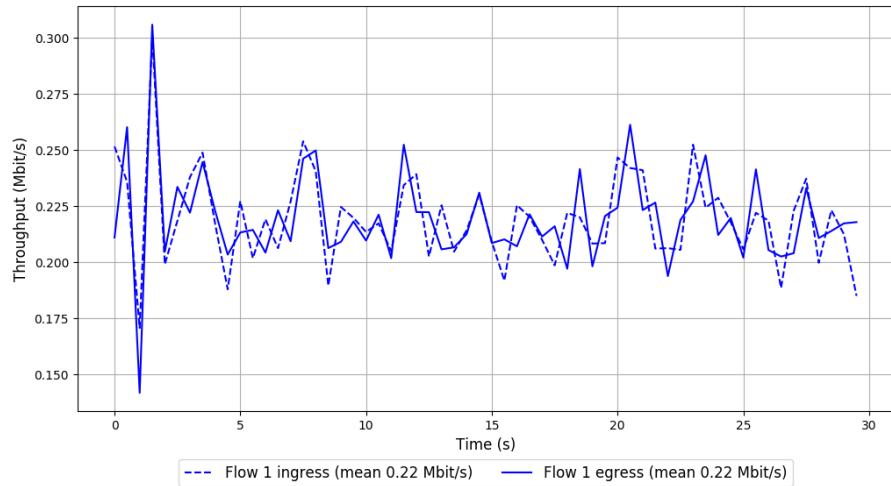


Run 10: Statistics of SCReAM

```
Start at: Mon, 24 Jul 2017 23:05:11 +0000
End at: Mon, 24 Jul 2017 23:05:41 +0000
Local clock offset: 1.118 ms
Remote clock offset: 8.007 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:40:20 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 71.211 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 71.211 ms
Loss rate: 0.00%
```

Run 10: Report of SCReAM — Data Link

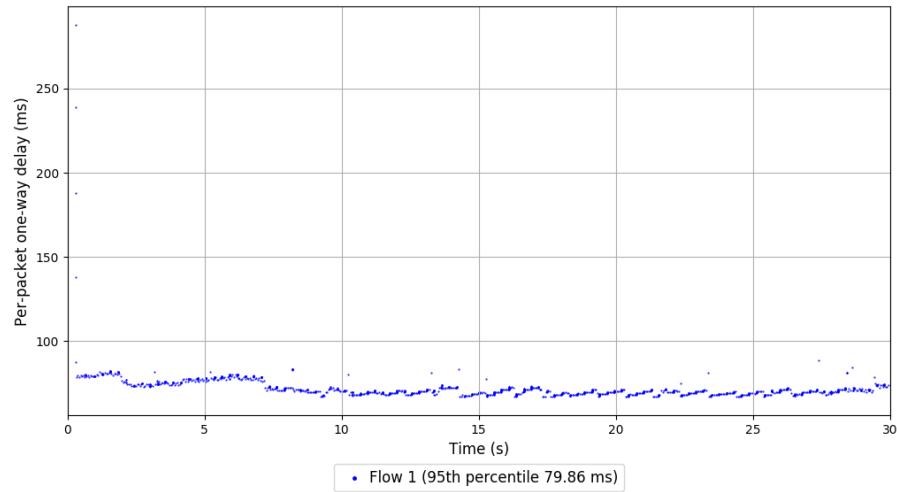
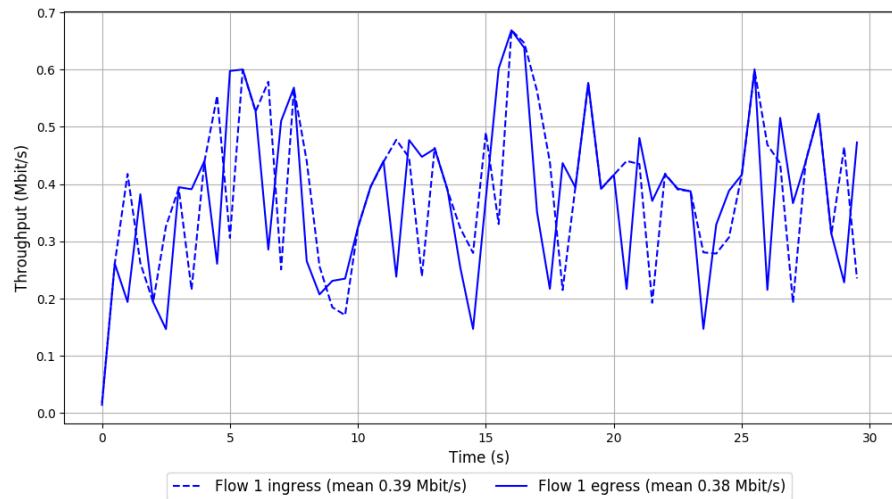


Run 1: Statistics of Sprout

```
Start at: Mon, 24 Jul 2017 20:15:32 +0000
End at: Mon, 24 Jul 2017 20:16:02 +0000
Local clock offset: -0.111 ms
Remote clock offset: 6.168 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:40:21 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 79.857 ms
Loss rate: 2.23%
-- Flow 1:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 79.857 ms
Loss rate: 2.23%
```

Run 1: Report of Sprout — Data Link

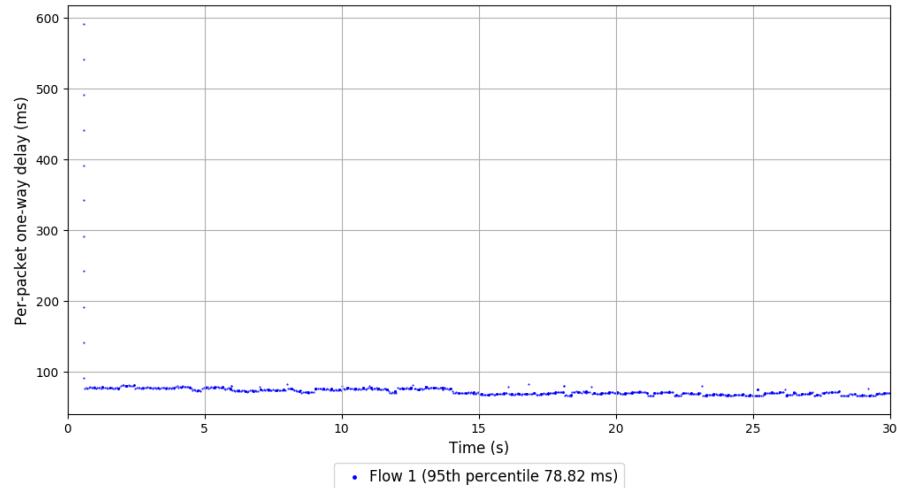
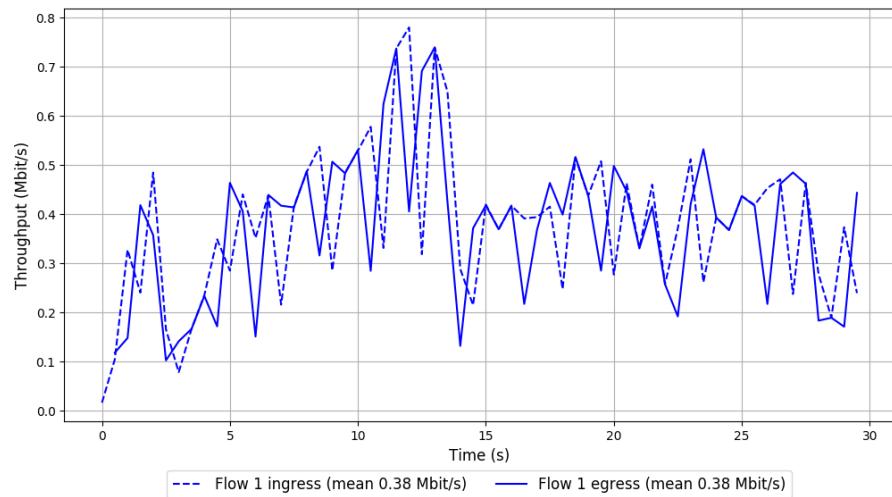


Run 2: Statistics of Sprout

```
Start at: Mon, 24 Jul 2017 20:34:43 +0000
End at: Mon, 24 Jul 2017 20:35:13 +0000
Local clock offset: -0.08 ms
Remote clock offset: 7.646 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:40:22 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 78.818 ms
Loss rate: 2.42%
-- Flow 1:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 78.818 ms
Loss rate: 2.42%
```

Run 2: Report of Sprout — Data Link

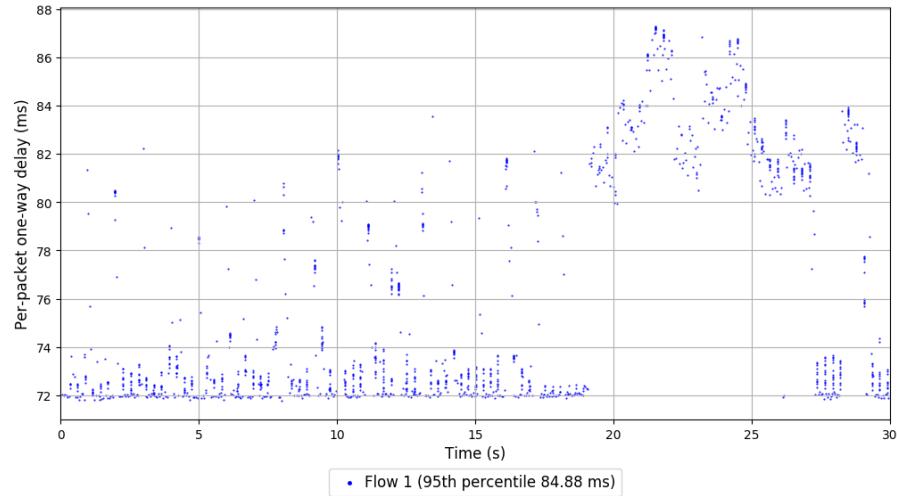
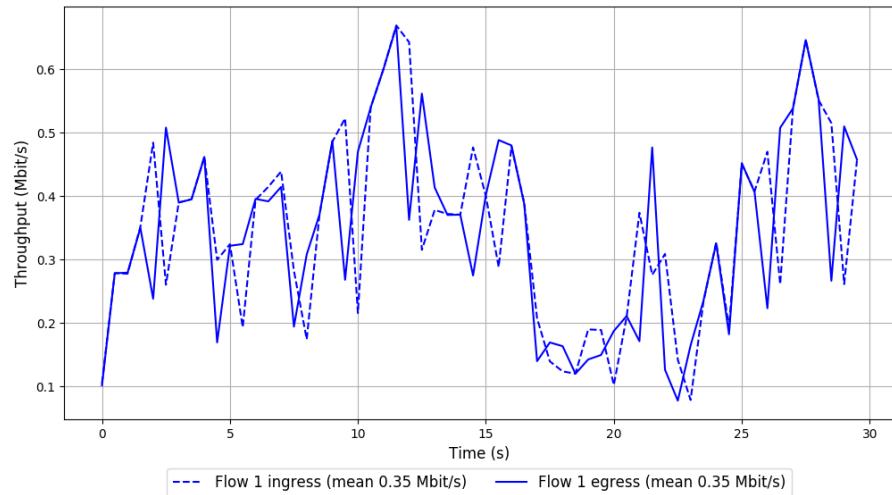


Run 3: Statistics of Sprout

```
Start at: Mon, 24 Jul 2017 20:53:48 +0000
End at: Mon, 24 Jul 2017 20:54:18 +0000
Local clock offset: -1.176 ms
Remote clock offset: 8.32 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:40:22 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 84.880 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 84.880 ms
Loss rate: 0.83%
```

Run 3: Report of Sprout — Data Link

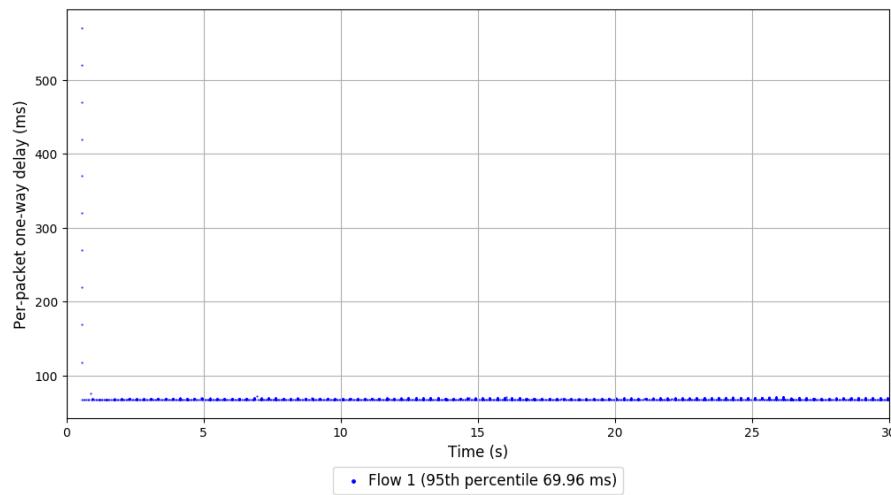
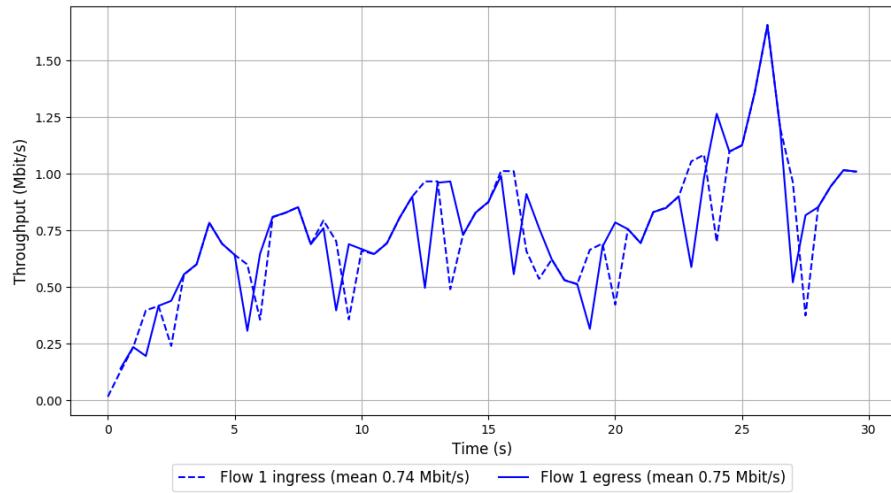


Run 4: Statistics of Sprout

```
Start at: Mon, 24 Jul 2017 21:12:55 +0000
End at: Mon, 24 Jul 2017 21:13:25 +0000
Local clock offset: 0.185 ms
Remote clock offset: 7.315 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:40:23 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.75 Mbit/s
95th percentile per-packet one-way delay: 69.961 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.75 Mbit/s
95th percentile per-packet one-way delay: 69.961 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

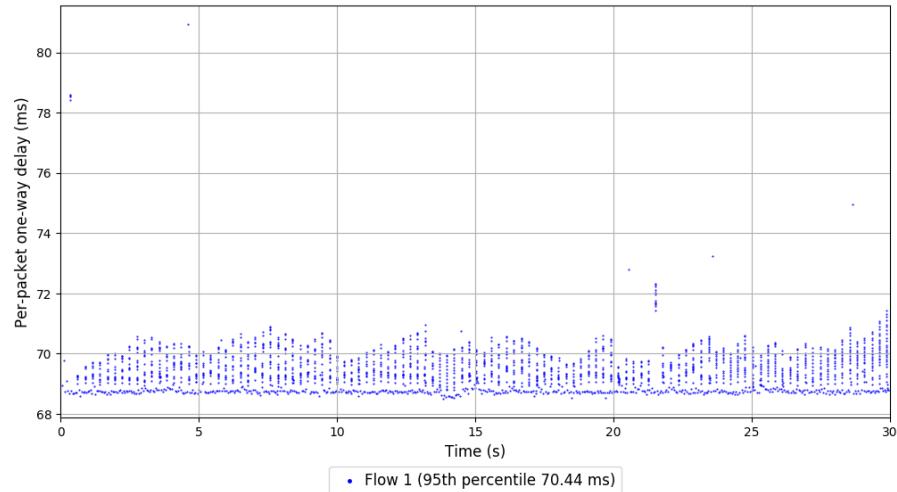
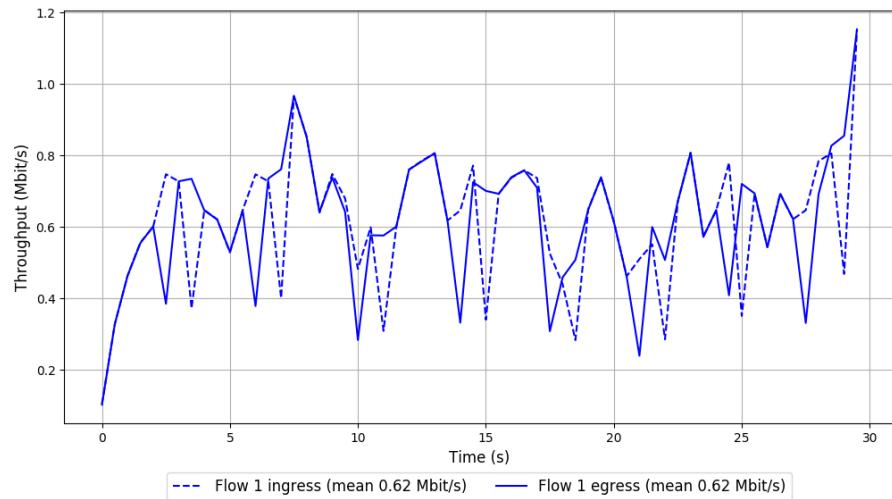


Run 5: Statistics of Sprout

```
Start at: Mon, 24 Jul 2017 21:32:12 +0000
End at: Mon, 24 Jul 2017 21:32:42 +0000
Local clock offset: -0.911 ms
Remote clock offset: 6.688 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:40:23 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 70.439 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 70.439 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

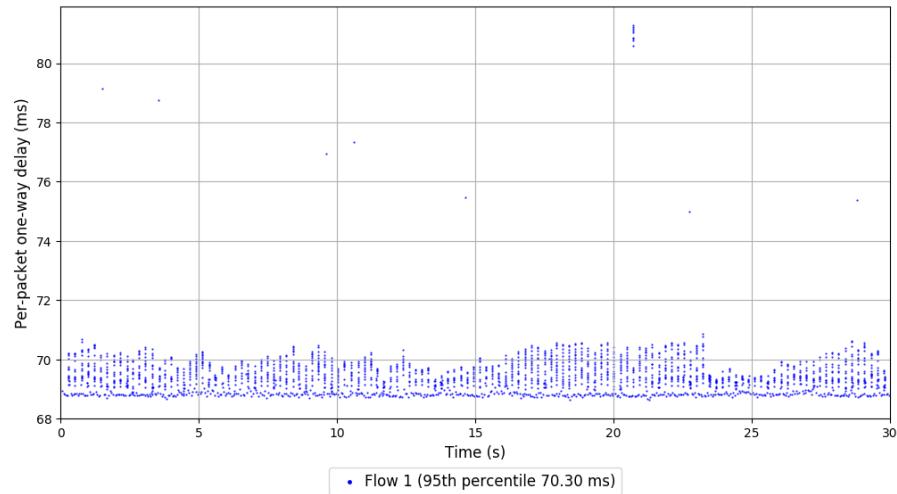
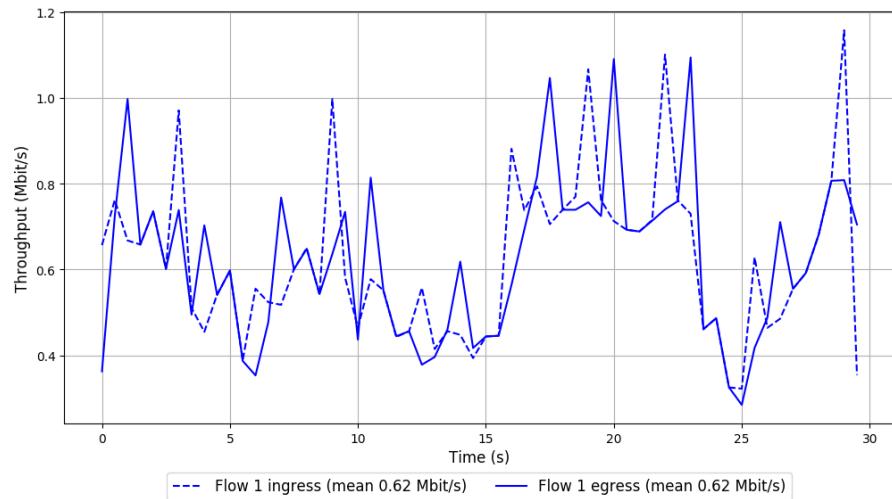


Run 6: Statistics of Sprout

```
Start at: Mon, 24 Jul 2017 21:53:13 +0000
End at: Mon, 24 Jul 2017 21:53:43 +0000
Local clock offset: -0.51 ms
Remote clock offset: 7.297 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:40:24 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 70.302 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 70.302 ms
Loss rate: 0.00%
```

Run 6: Report of Sprout — Data Link

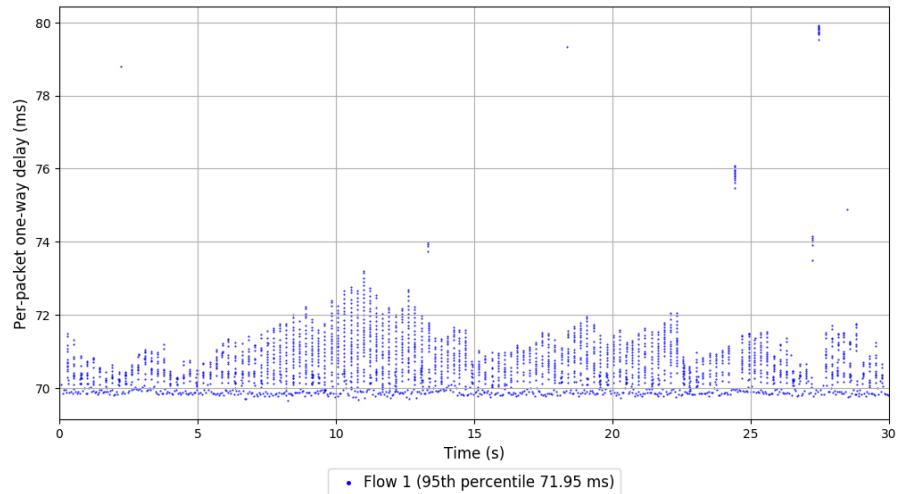
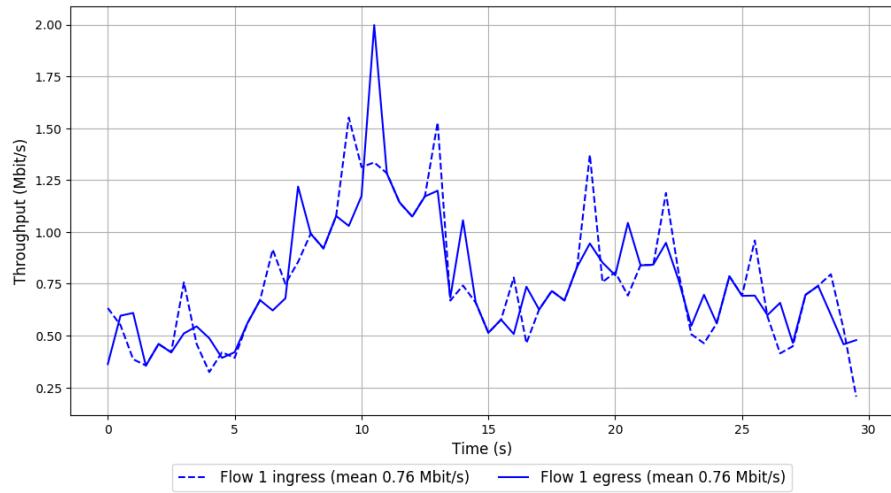


Run 7: Statistics of Sprout

```
Start at: Mon, 24 Jul 2017 22:12:19 +0000
End at: Mon, 24 Jul 2017 22:12:49 +0000
Local clock offset: -0.982 ms
Remote clock offset: 8.187 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:40:24 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.76 Mbit/s
95th percentile per-packet one-way delay: 71.950 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.76 Mbit/s
95th percentile per-packet one-way delay: 71.950 ms
Loss rate: 0.00%
```

Run 7: Report of Sprout — Data Link

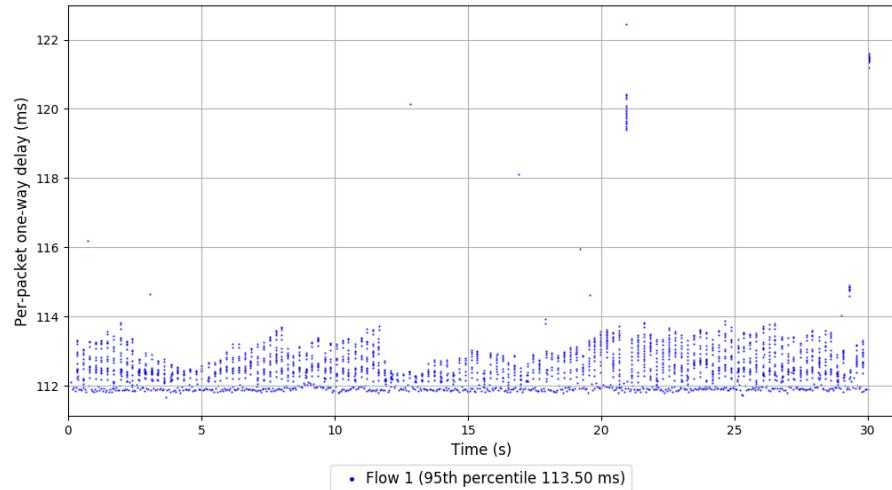
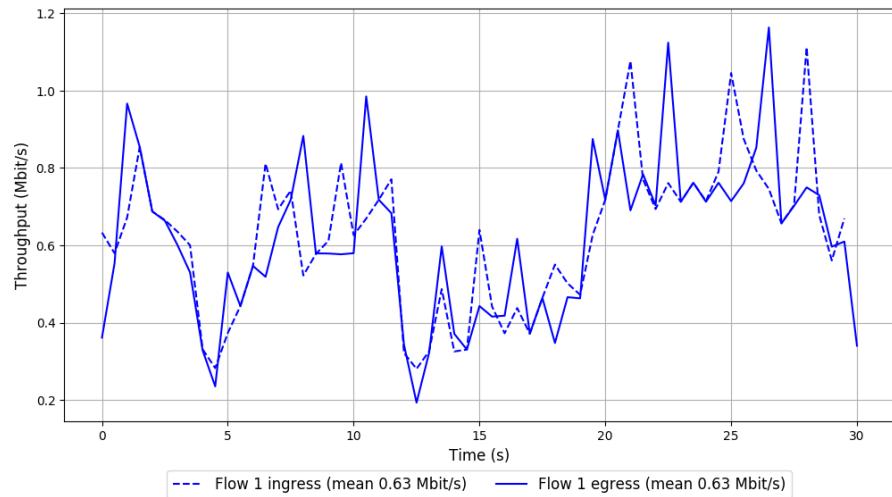


Run 8: Statistics of Sprout

```
Start at: Mon, 24 Jul 2017 22:32:12 +0000
End at: Mon, 24 Jul 2017 22:32:42 +0000
Local clock offset: -0.196 ms
Remote clock offset: 51.933 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:40:25 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 113.503 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 113.503 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link

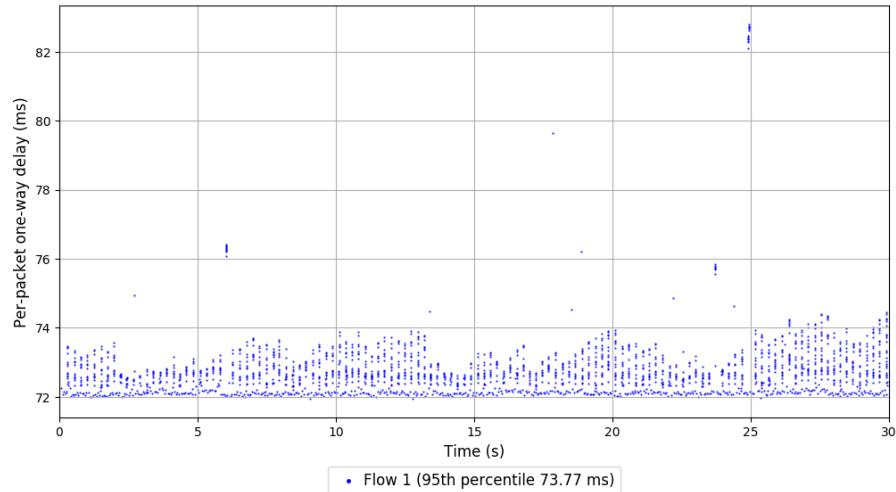
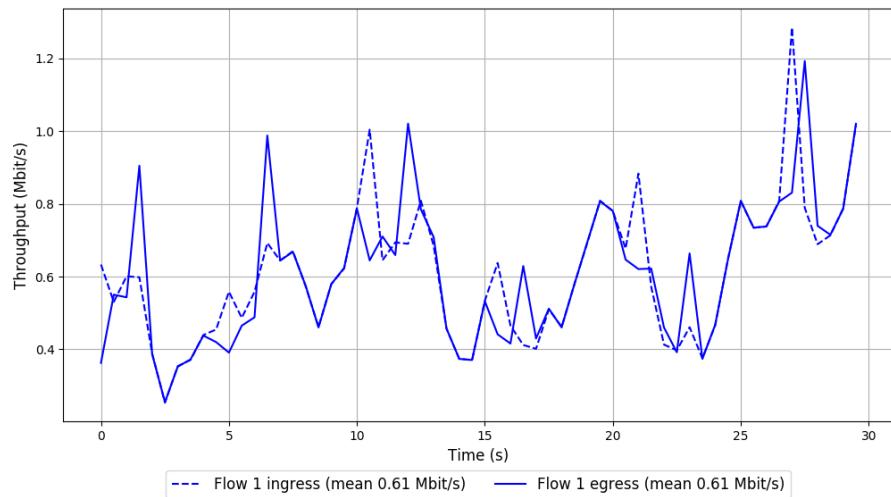


Run 9: Statistics of Sprout

```
Start at: Mon, 24 Jul 2017 22:51:16 +0000
End at: Mon, 24 Jul 2017 22:51:46 +0000
Local clock offset: -0.105 ms
Remote clock offset: 8.492 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:40:25 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 73.774 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 73.774 ms
Loss rate: 0.00%
```

Run 9: Report of Sprout — Data Link

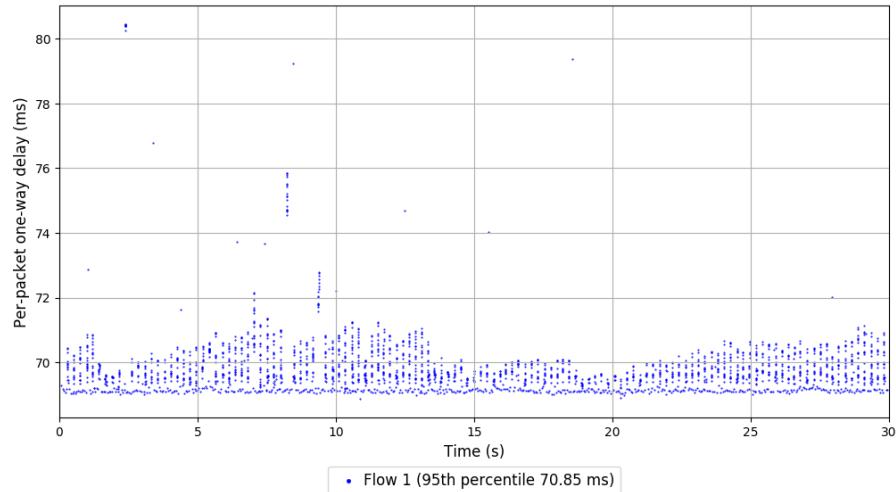
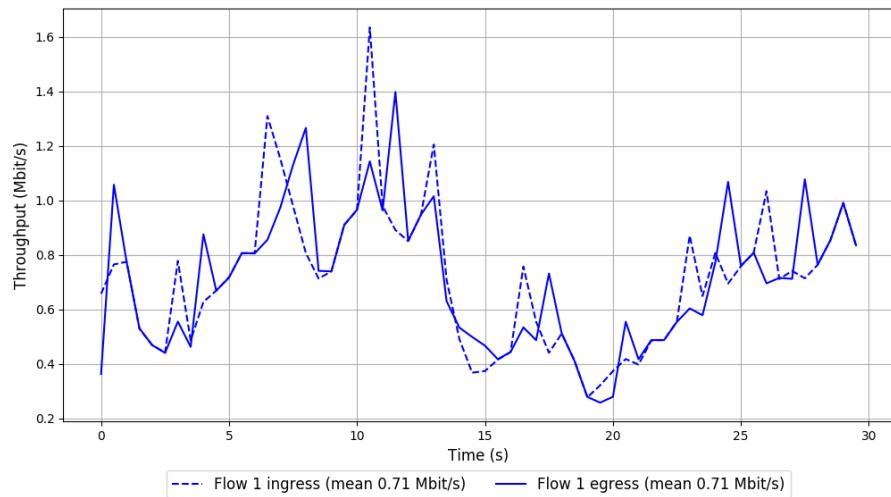


Run 10: Statistics of Sprout

```
Start at: Mon, 24 Jul 2017 23:10:14 +0000
End at: Mon, 24 Jul 2017 23:10:44 +0000
Local clock offset: -0.083 ms
Remote clock offset: 7.87 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:40:26 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.71 Mbit/s
95th percentile per-packet one-way delay: 70.851 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.71 Mbit/s
95th percentile per-packet one-way delay: 70.851 ms
Loss rate: 0.00%
```

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: Mon, 24 Jul 2017 20:16:48 +0000

End at: Mon, 24 Jul 2017 20:17:18 +0000

Local clock offset: -1.313 ms

Remote clock offset: 5.75 ms

Below is generated by plot.py at Tue, 25 Jul 2017 02:40:27 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.85 Mbit/s

95th percentile per-packet one-way delay: 73.330 ms

Loss rate: 2.84%

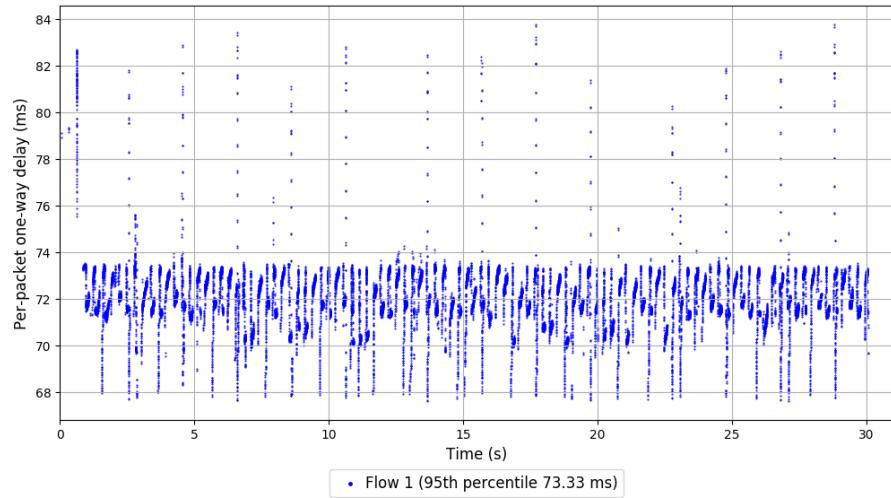
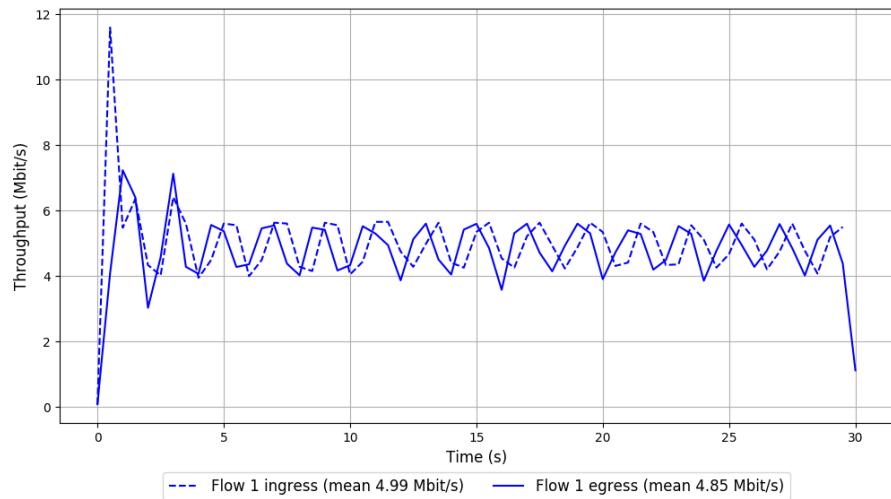
-- Flow 1:

Average throughput: 4.85 Mbit/s

95th percentile per-packet one-way delay: 73.330 ms

Loss rate: 2.84%

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

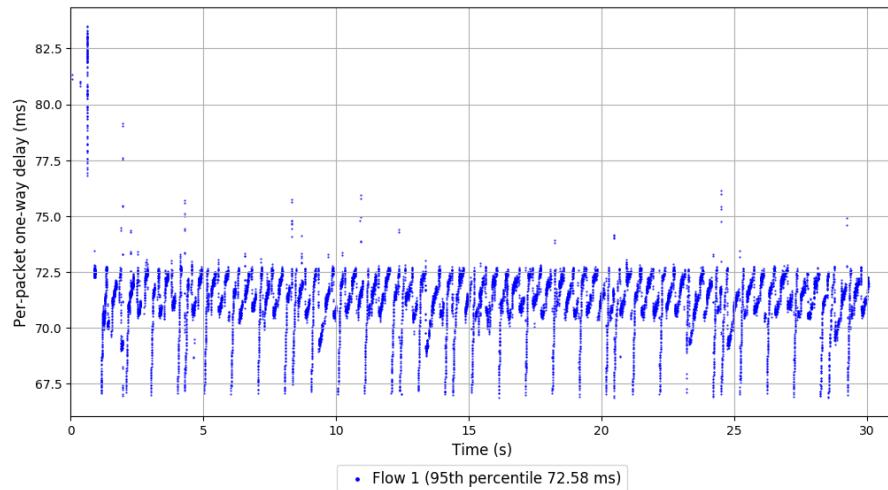
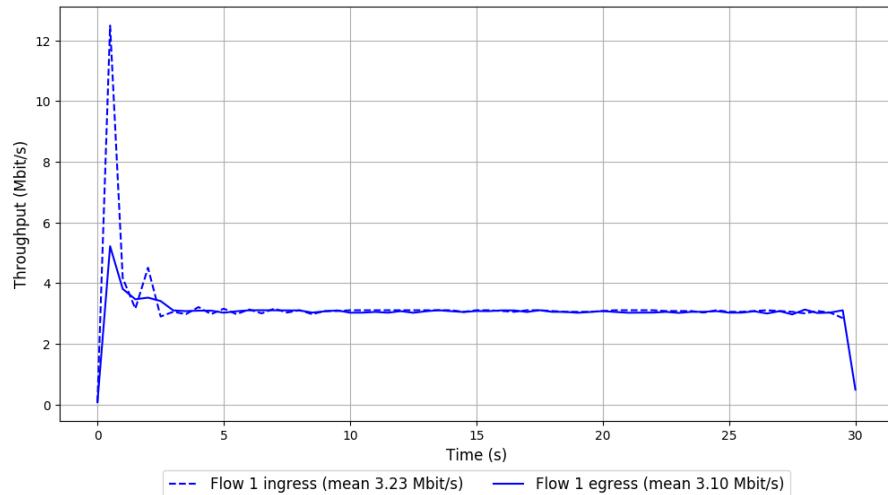


Run 2: Statistics of TaoVA-100x

```
Start at: Mon, 24 Jul 2017 20:35:58 +0000
End at: Mon, 24 Jul 2017 20:36:28 +0000
Local clock offset: -0.035 ms
Remote clock offset: 7.715 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:40:28 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.10 Mbit/s
95th percentile per-packet one-way delay: 72.576 ms
Loss rate: 4.14%
-- Flow 1:
Average throughput: 3.10 Mbit/s
95th percentile per-packet one-way delay: 72.576 ms
Loss rate: 4.14%
```

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

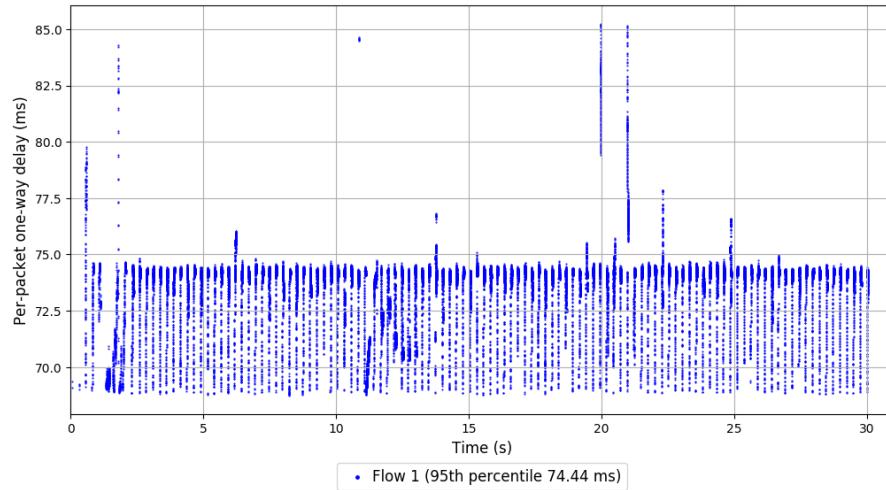
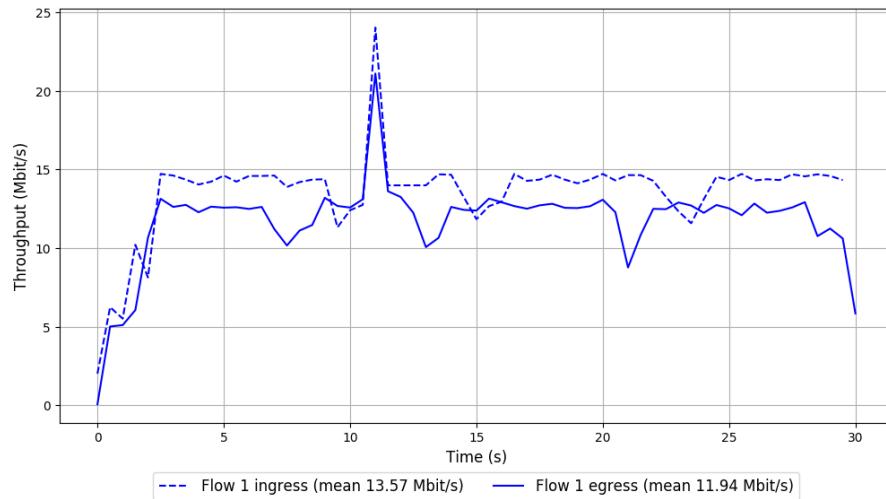


Run 3: Statistics of TaoVA-100x

```
Start at: Mon, 24 Jul 2017 20:55:03 +0000
End at: Mon, 24 Jul 2017 20:55:33 +0000
Local clock offset: -1.202 ms
Remote clock offset: 8.13 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:40:30 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.94 Mbit/s
95th percentile per-packet one-way delay: 74.439 ms
Loss rate: 12.00%
-- Flow 1:
Average throughput: 11.94 Mbit/s
95th percentile per-packet one-way delay: 74.439 ms
Loss rate: 12.00%
```

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

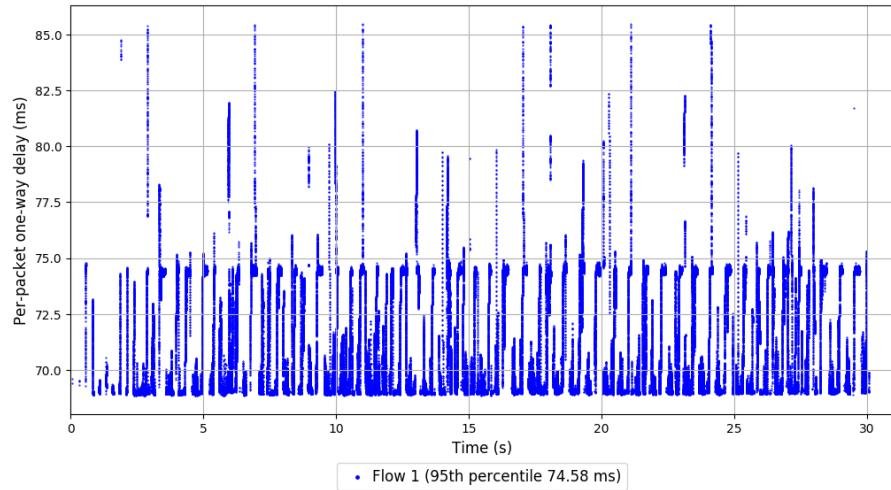
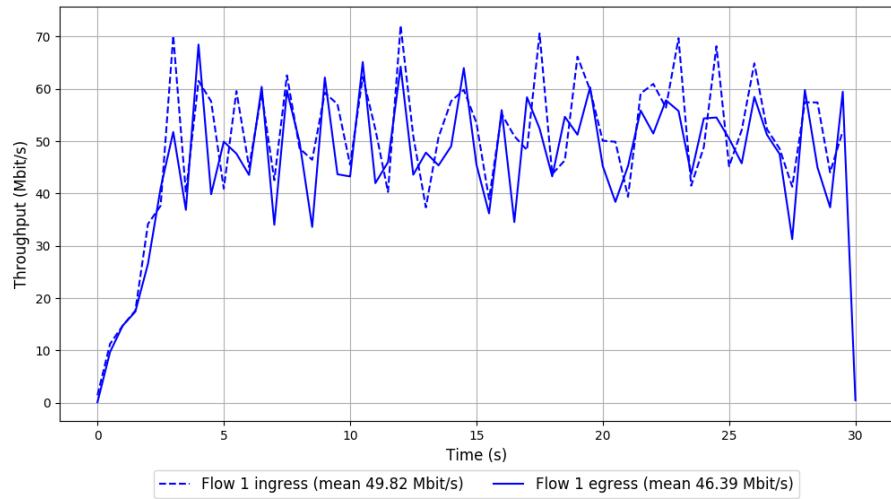


Run 4: Statistics of TaoVA-100x

```
Start at: Mon, 24 Jul 2017 21:14:09 +0000
End at: Mon, 24 Jul 2017 21:14:39 +0000
Local clock offset: -1.061 ms
Remote clock offset: 7.194 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:40:40 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.39 Mbit/s
95th percentile per-packet one-way delay: 74.583 ms
Loss rate: 6.90%
-- Flow 1:
Average throughput: 46.39 Mbit/s
95th percentile per-packet one-way delay: 74.583 ms
Loss rate: 6.90%
```

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

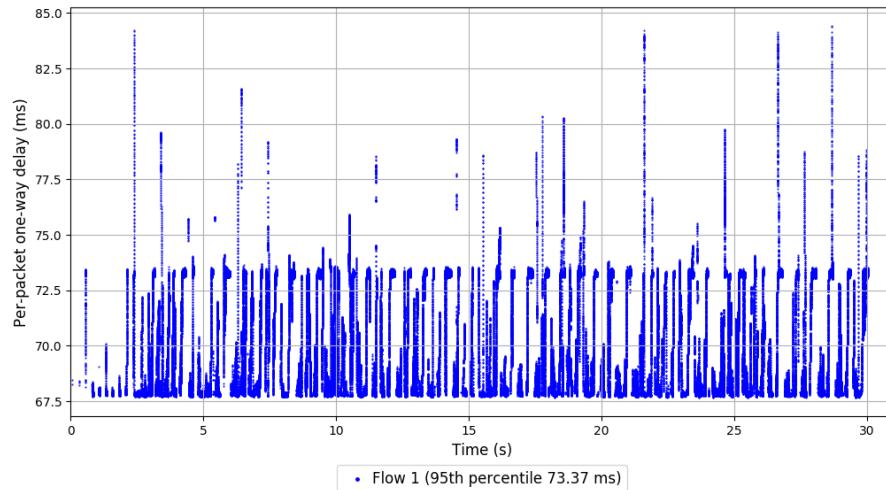
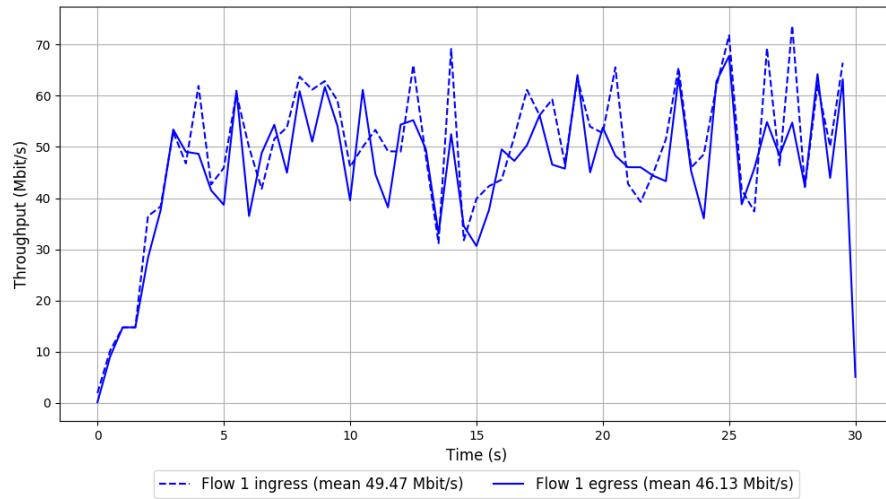


Run 5: Statistics of TaoVA-100x

```
Start at: Mon, 24 Jul 2017 21:33:26 +0000
End at: Mon, 24 Jul 2017 21:33:56 +0000
Local clock offset: 0.305 ms
Remote clock offset: 6.643 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:40:41 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.13 Mbit/s
95th percentile per-packet one-way delay: 73.366 ms
Loss rate: 6.73%
-- Flow 1:
Average throughput: 46.13 Mbit/s
95th percentile per-packet one-way delay: 73.366 ms
Loss rate: 6.73%
```

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

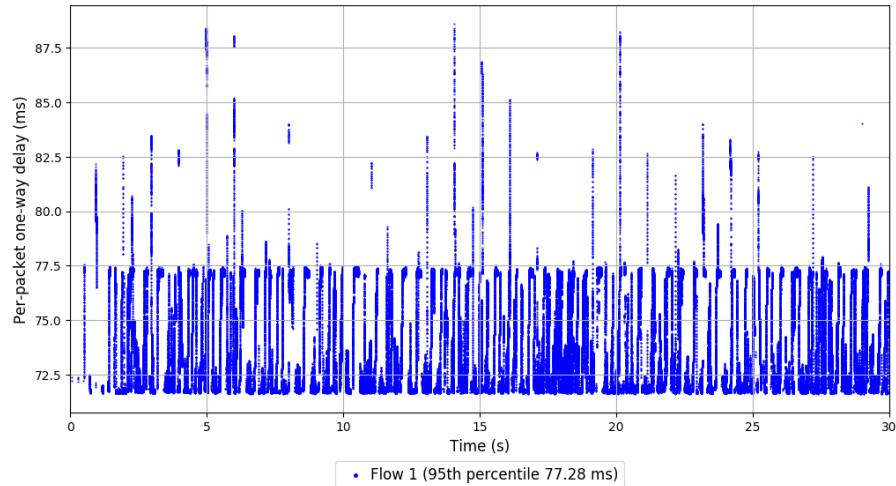
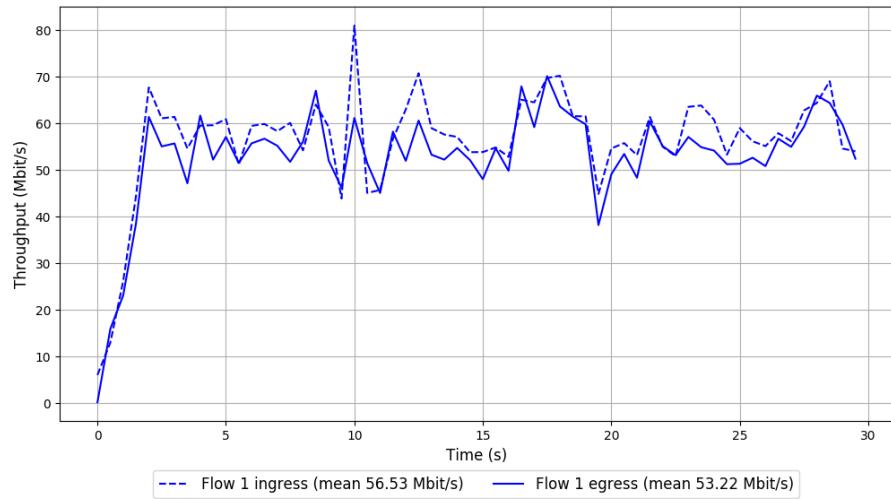


Run 6: Statistics of TaoVA-100x

```
Start at: Mon, 24 Jul 2017 21:54:26 +0000
End at: Mon, 24 Jul 2017 21:54:56 +0000
Local clock offset: -0.537 ms
Remote clock offset: 7.391 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:40:53 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.22 Mbit/s
95th percentile per-packet one-way delay: 77.275 ms
Loss rate: 5.85%
-- Flow 1:
Average throughput: 53.22 Mbit/s
95th percentile per-packet one-way delay: 77.275 ms
Loss rate: 5.85%
```

Run 6: Report of TaoVA-100x — Data Link



Run 7: Statistics of TaoVA-100x

Start at: Mon, 24 Jul 2017 22:13:32 +0000

End at: Mon, 24 Jul 2017 22:14:02 +0000

Local clock offset: -0.315 ms

Remote clock offset: 8.227 ms

Below is generated by plot.py at Tue, 25 Jul 2017 02:40:54 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.77 Mbit/s

95th percentile per-packet one-way delay: 74.510 ms

Loss rate: 6.33%

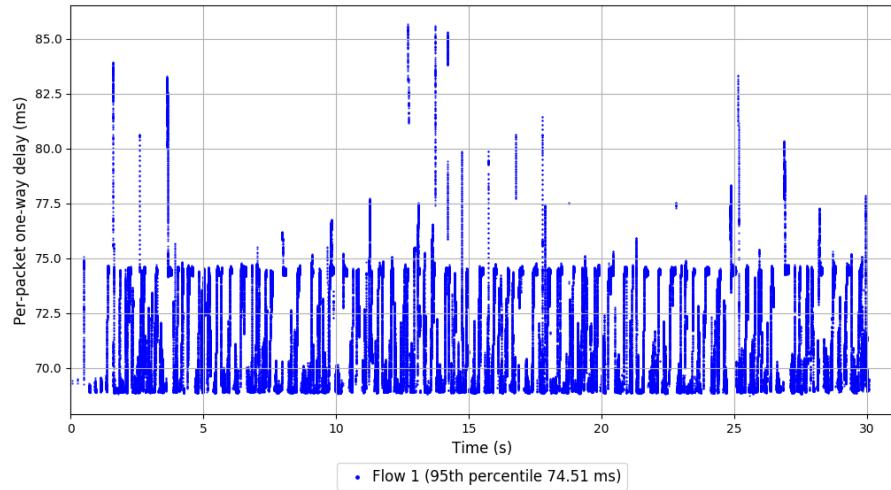
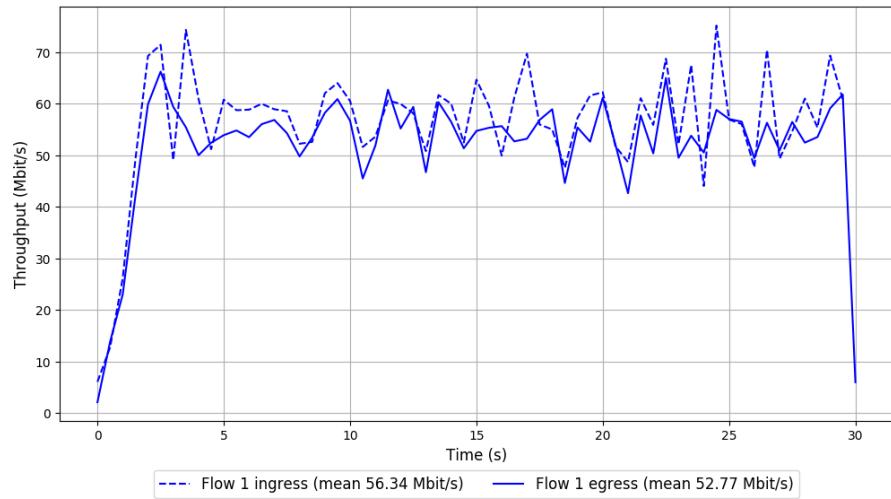
-- Flow 1:

Average throughput: 52.77 Mbit/s

95th percentile per-packet one-way delay: 74.510 ms

Loss rate: 6.33%

Run 7: Report of TaoVA-100x — Data Link

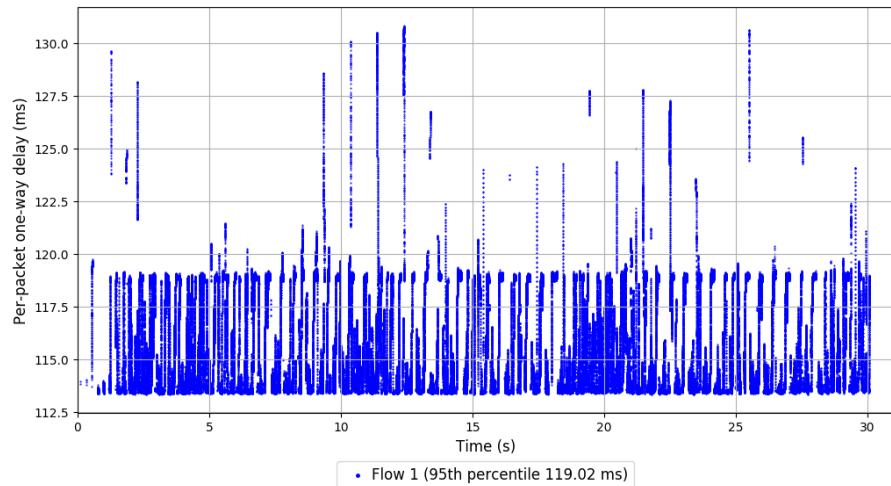
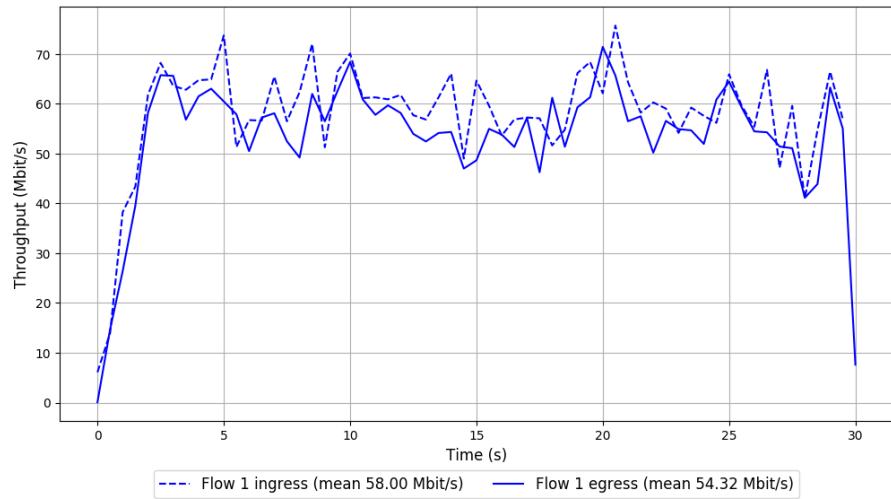


Run 8: Statistics of TaoVA-100x

```
Start at: Mon, 24 Jul 2017 22:33:30 +0000
End at: Mon, 24 Jul 2017 22:34:00 +0000
Local clock offset: 1.088 ms
Remote clock offset: 51.949 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:41:04 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.32 Mbit/s
95th percentile per-packet one-way delay: 119.020 ms
Loss rate: 6.33%
-- Flow 1:
Average throughput: 54.32 Mbit/s
95th percentile per-packet one-way delay: 119.020 ms
Loss rate: 6.33%
```

Run 8: Report of TaoVA-100x — Data Link

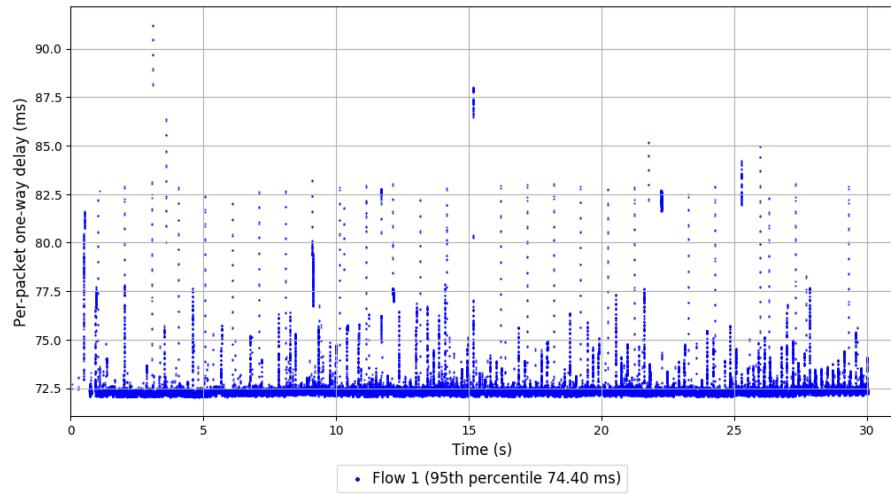
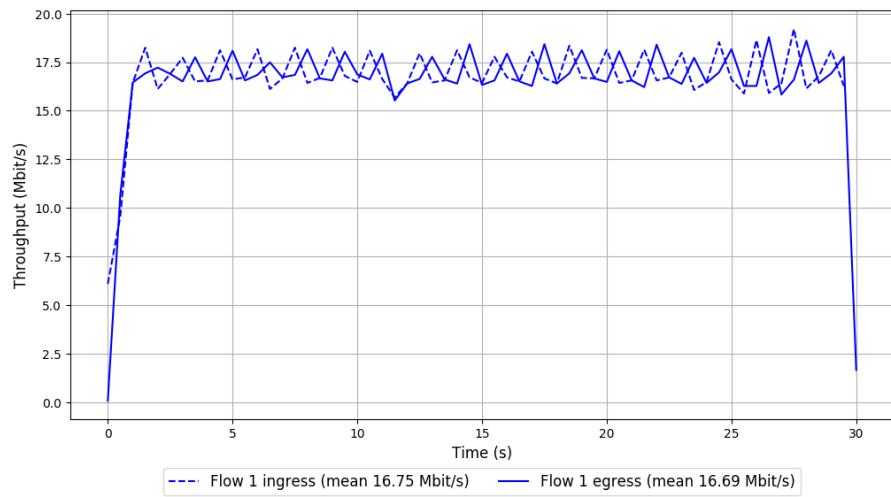


Run 9: Statistics of TaoVA-100x

```
Start at: Mon, 24 Jul 2017 22:52:30 +0000
End at: Mon, 24 Jul 2017 22:53:00 +0000
Local clock offset: -0.047 ms
Remote clock offset: 8.475 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:41:04 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.69 Mbit/s
95th percentile per-packet one-way delay: 74.404 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 16.69 Mbit/s
95th percentile per-packet one-way delay: 74.404 ms
Loss rate: 0.36%
```

Run 9: Report of TaoVA-100x — Data Link



Run 10: Statistics of TaoVA-100x

Start at: Mon, 24 Jul 2017 23:11:27 +0000

End at: Mon, 24 Jul 2017 23:11:57 +0000

Local clock offset: 1.179 ms

Remote clock offset: 7.778 ms

Below is generated by plot.py at Tue, 25 Jul 2017 02:41:16 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.59 Mbit/s

95th percentile per-packet one-way delay: 76.092 ms

Loss rate: 6.34%

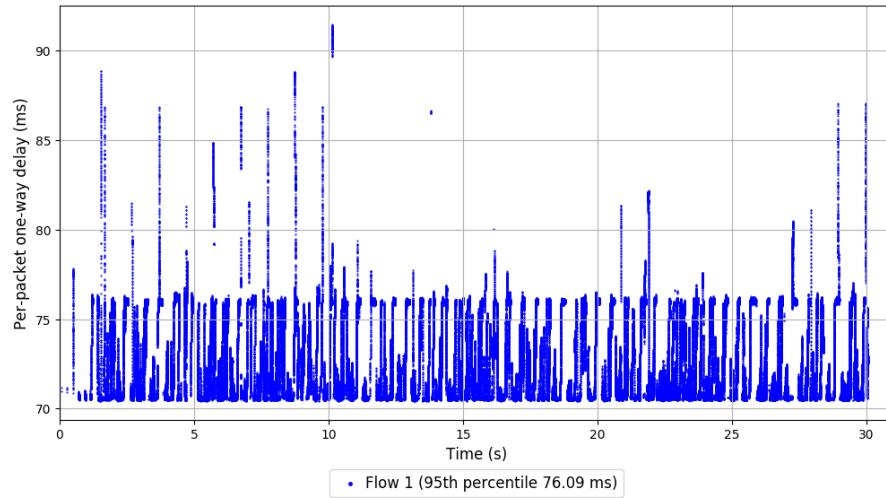
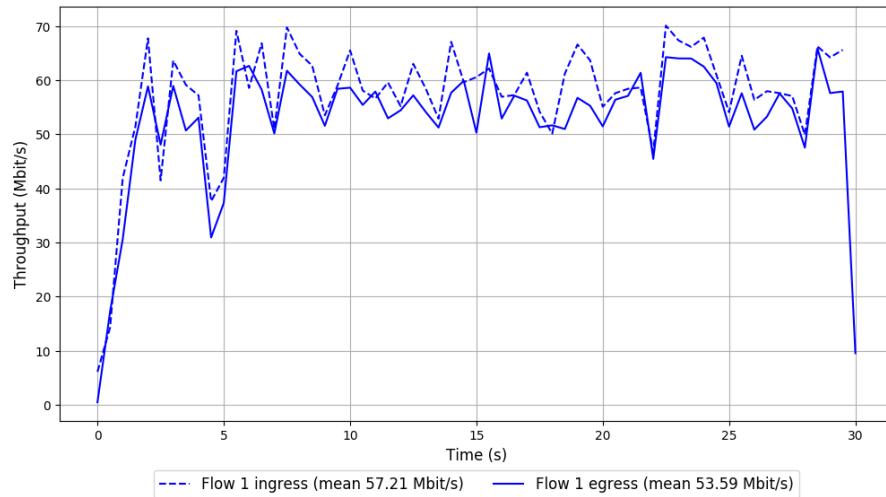
-- Flow 1:

Average throughput: 53.59 Mbit/s

95th percentile per-packet one-way delay: 76.092 ms

Loss rate: 6.34%

Run 10: Report of TaoVA-100x — Data Link

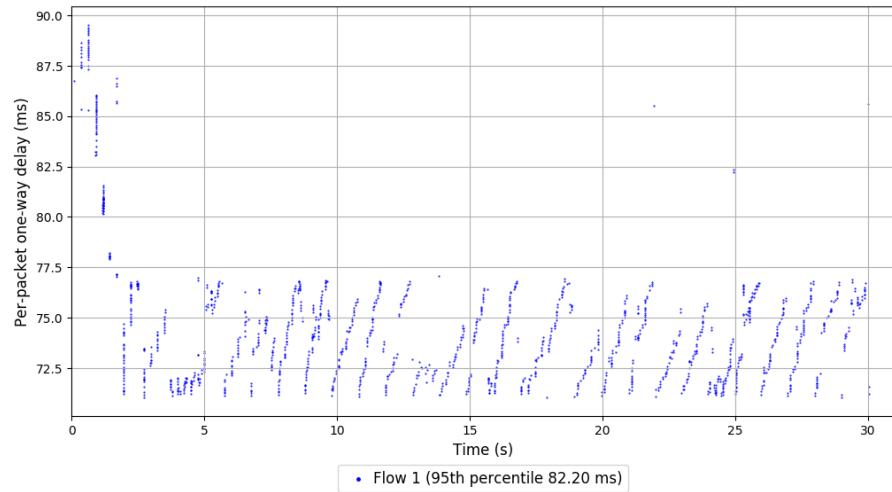
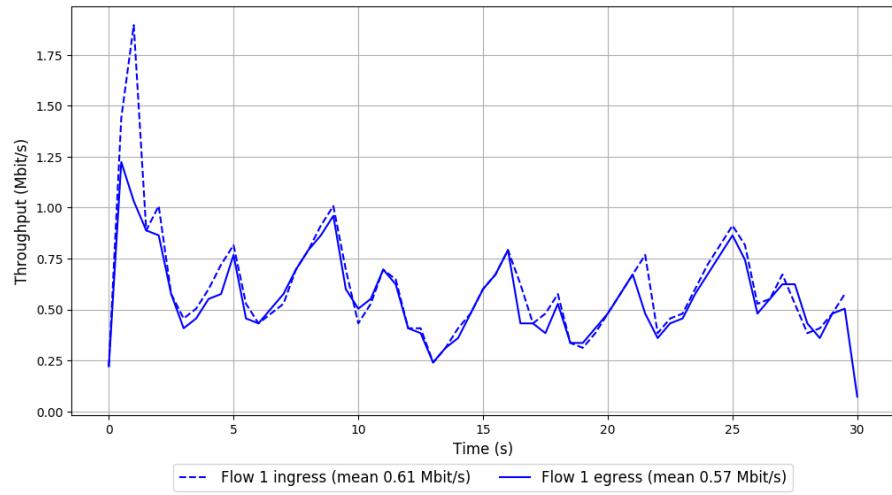


Run 1: Statistics of TCP Vegas

```
Start at: Mon, 24 Jul 2017 20:09:09 +0000
End at: Mon, 24 Jul 2017 20:09:39 +0000
Local clock offset: -1.402 ms
Remote clock offset: 5.405 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:41:16 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 82.201 ms
Loss rate: 7.18%
-- Flow 1:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 82.201 ms
Loss rate: 7.18%
```

Run 1: Report of TCP Vegas — Data Link

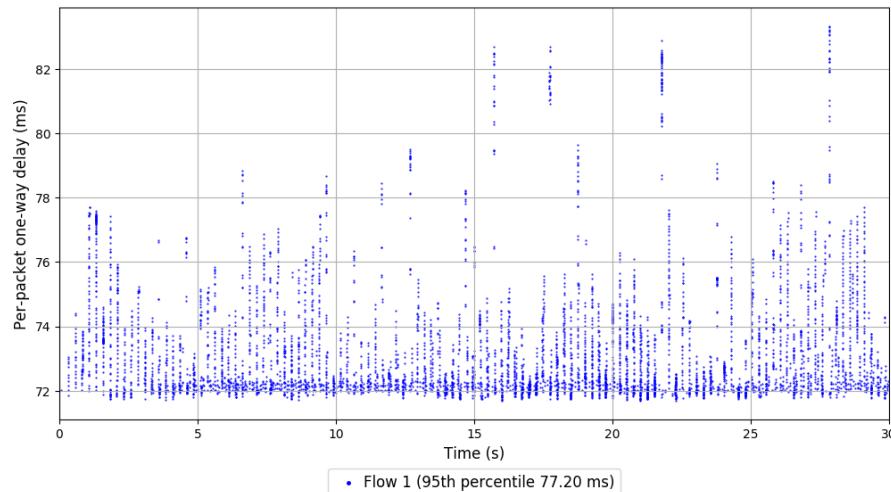
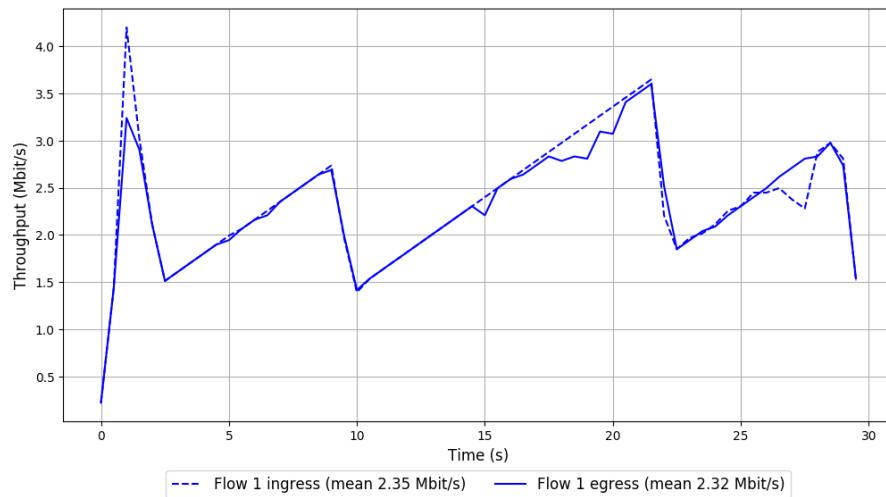


Run 2: Statistics of TCP Vegas

```
Start at: Mon, 24 Jul 2017 20:28:18 +0000
End at: Mon, 24 Jul 2017 20:28:49 +0000
Local clock offset: -1.337 ms
Remote clock offset: 8.785 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:41:16 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 77.197 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 77.197 ms
Loss rate: 1.26%
```

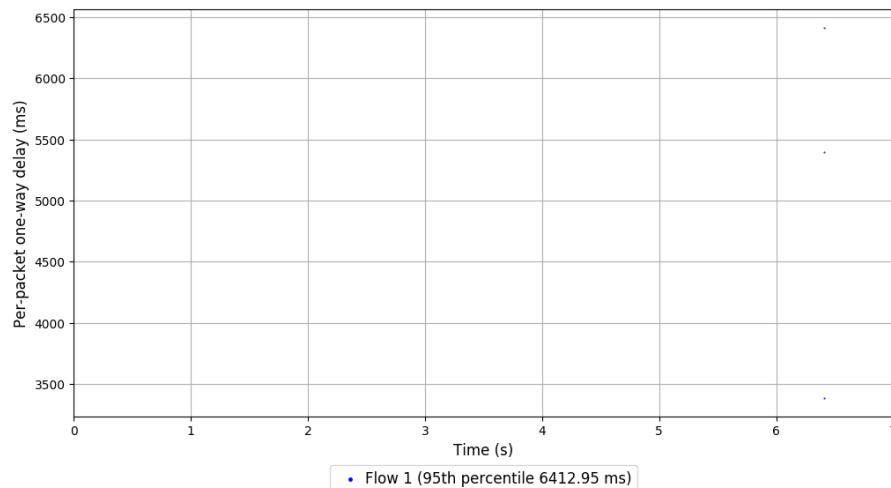
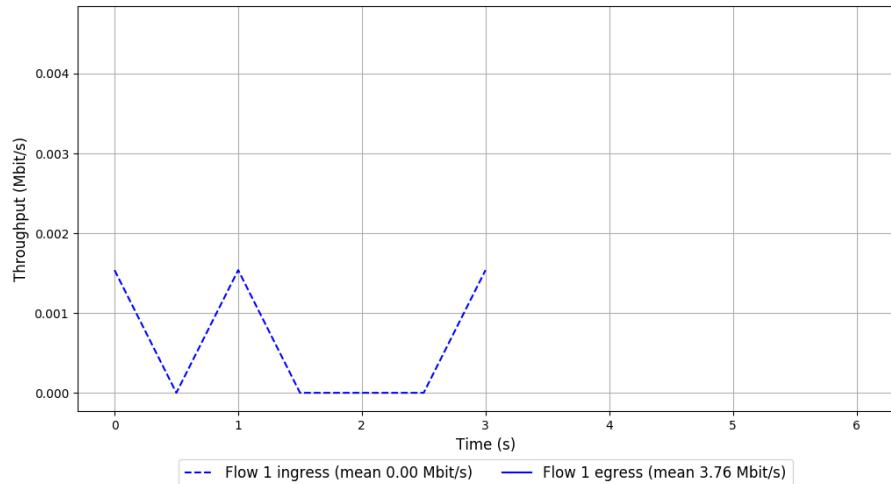
Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: Mon, 24 Jul 2017 20:47:21 +0000
End at: Mon, 24 Jul 2017 20:47:51 +0000
Local clock offset: -1.242 ms
Remote clock offset: 8.252 ms

Run 3: Report of TCP Vegas — Data Link

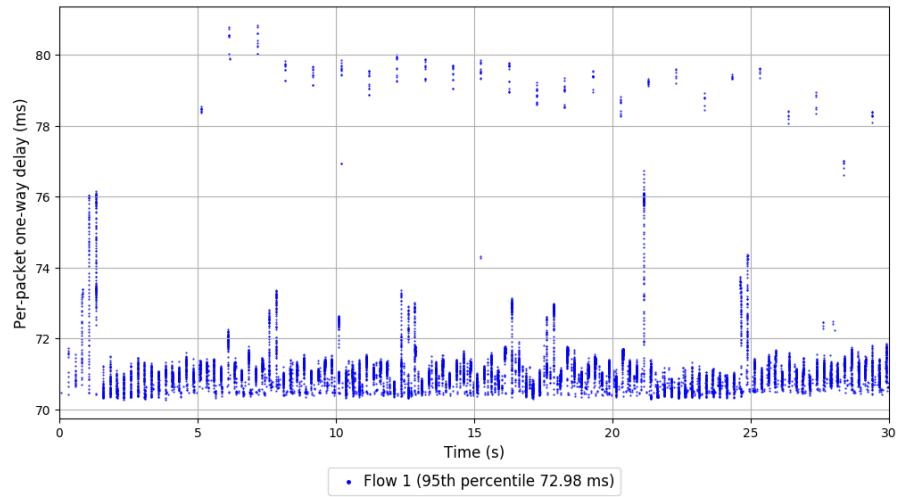
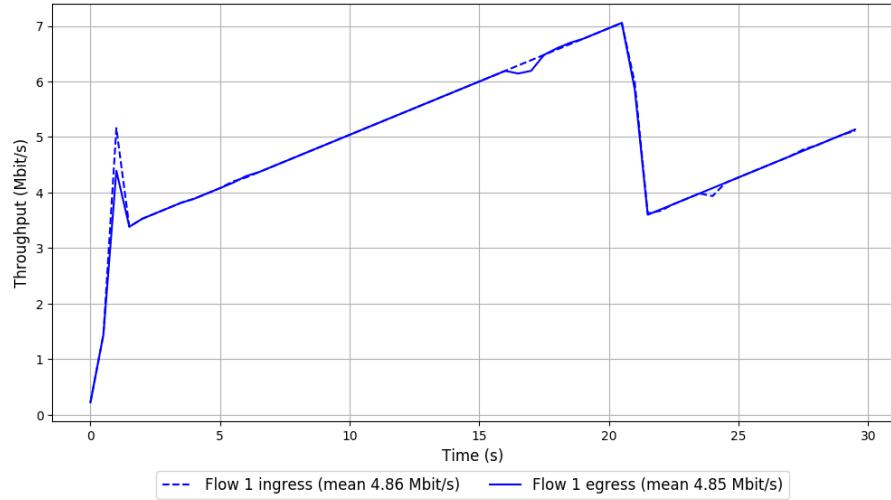


Run 4: Statistics of TCP Vegas

```
Start at: Mon, 24 Jul 2017 21:06:32 +0000
End at: Mon, 24 Jul 2017 21:07:02 +0000
Local clock offset: 0.063 ms
Remote clock offset: 7.572 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:41:16 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.85 Mbit/s
95th percentile per-packet one-way delay: 72.984 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 4.85 Mbit/s
95th percentile per-packet one-way delay: 72.984 ms
Loss rate: 0.35%
```

Run 4: Report of TCP Vegas — Data Link

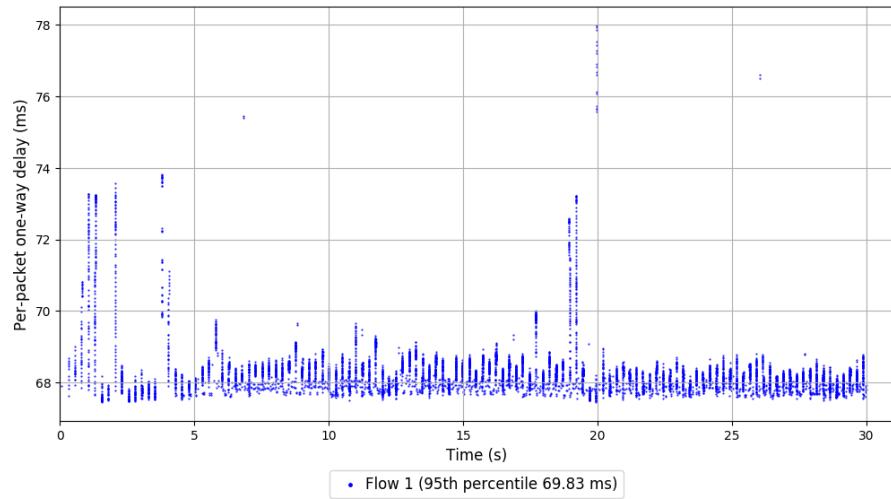
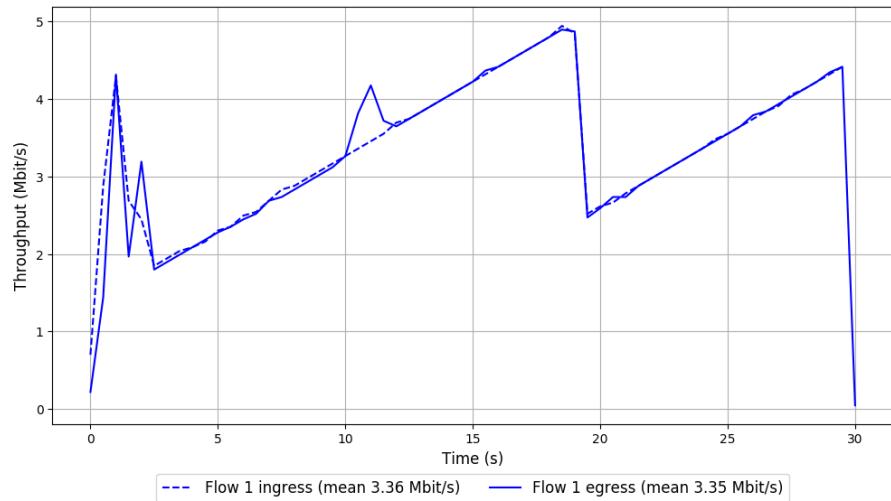


Run 5: Statistics of TCP Vegas

```
Start at: Mon, 24 Jul 2017 21:25:48 +0000
End at: Mon, 24 Jul 2017 21:26:18 +0000
Local clock offset: 0.282 ms
Remote clock offset: 6.683 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:41:16 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.35 Mbit/s
95th percentile per-packet one-way delay: 69.828 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 3.35 Mbit/s
95th percentile per-packet one-way delay: 69.828 ms
Loss rate: 0.50%
```

Run 5: Report of TCP Vegas — Data Link

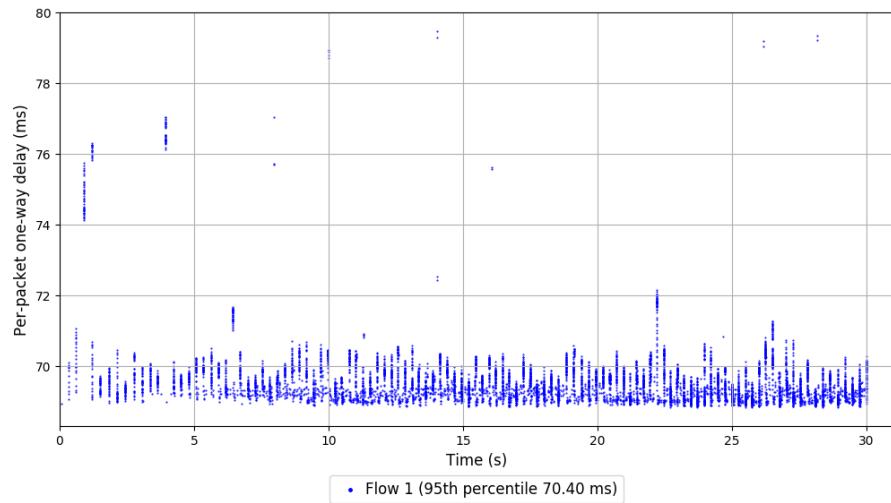
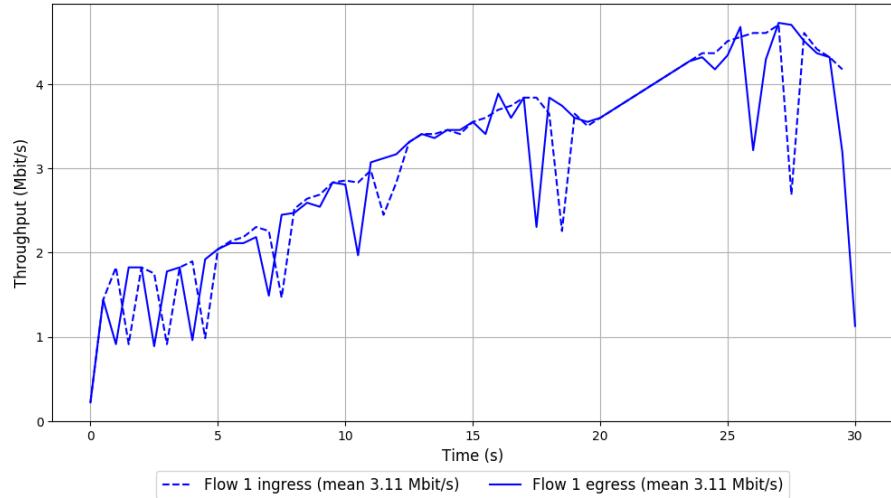


Run 6: Statistics of TCP Vegas

```
Start at: Mon, 24 Jul 2017 21:46:23 +0000
End at: Mon, 24 Jul 2017 21:46:53 +0000
Local clock offset: -0.75 ms
Remote clock offset: 7.005 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:41:16 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.11 Mbit/s
95th percentile per-packet one-way delay: 70.400 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.11 Mbit/s
95th percentile per-packet one-way delay: 70.400 ms
Loss rate: 0.00%
```

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: Mon, 24 Jul 2017 22:06:02 +0000

End at: Mon, 24 Jul 2017 22:06:32 +0000

Local clock offset: -0.414 ms

Remote clock offset: 7.758 ms

Below is generated by plot.py at Tue, 25 Jul 2017 02:41:16 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.26 Mbit/s

95th percentile per-packet one-way delay: 74.490 ms

Loss rate: 0.66%

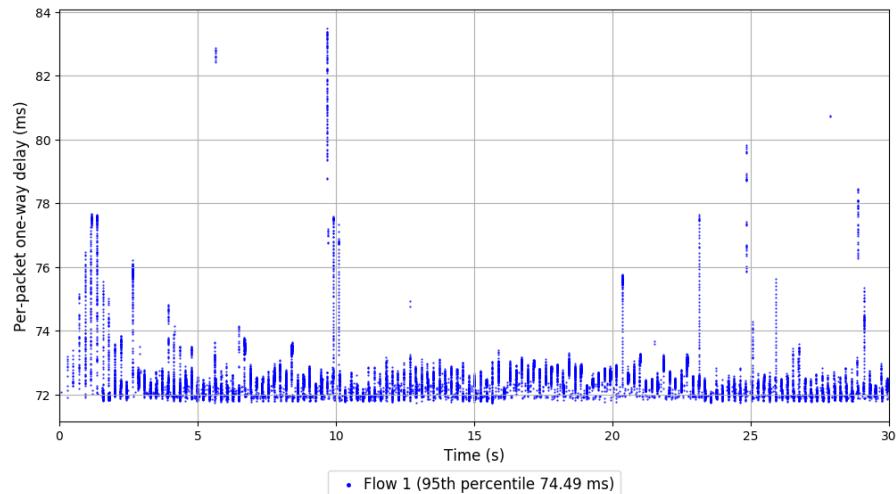
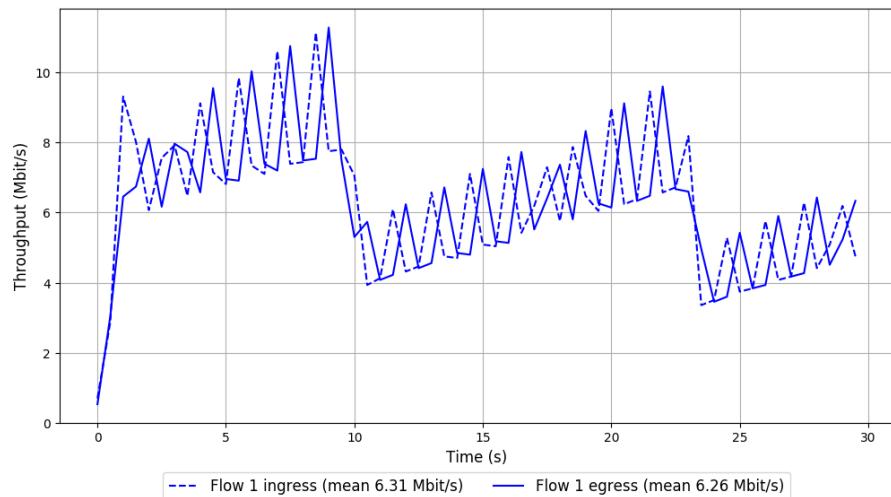
-- Flow 1:

Average throughput: 6.26 Mbit/s

95th percentile per-packet one-way delay: 74.490 ms

Loss rate: 0.66%

Run 7: Report of TCP Vegas — Data Link

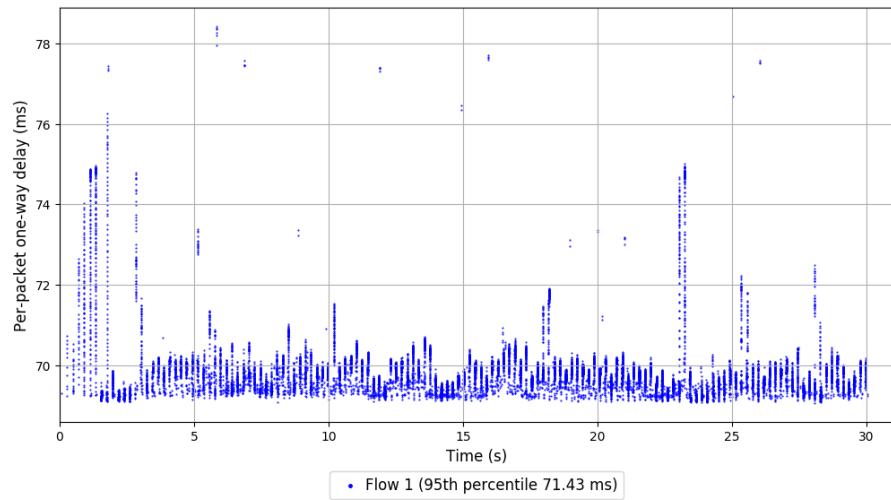
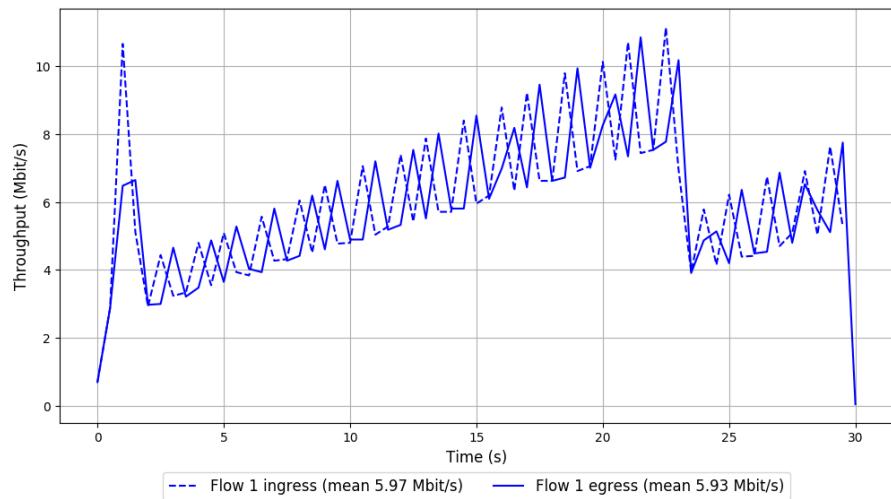


Run 8: Statistics of TCP Vegas

```
Start at: Mon, 24 Jul 2017 22:25:54 +0000
End at: Mon, 24 Jul 2017 22:26:24 +0000
Local clock offset: -0.224 ms
Remote clock offset: 8.806 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:41:16 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.93 Mbit/s
95th percentile per-packet one-way delay: 71.429 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 5.93 Mbit/s
95th percentile per-packet one-way delay: 71.429 ms
Loss rate: 0.77%
```

Run 8: Report of TCP Vegas — Data Link

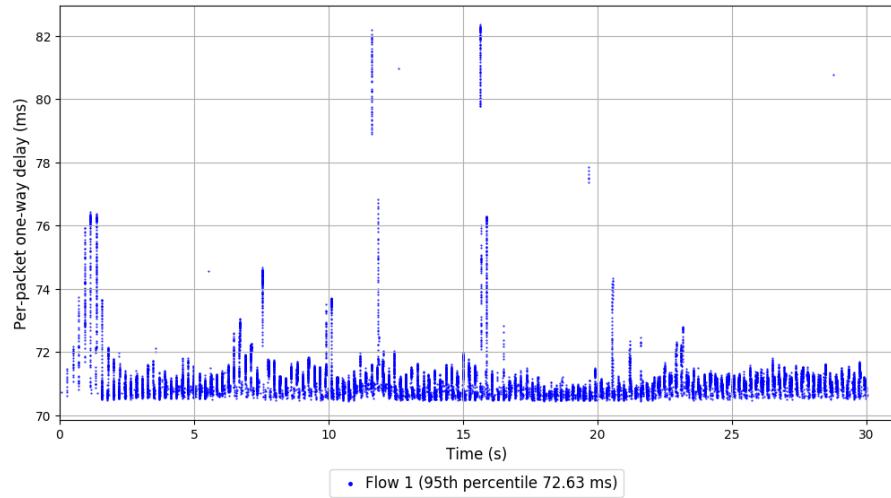
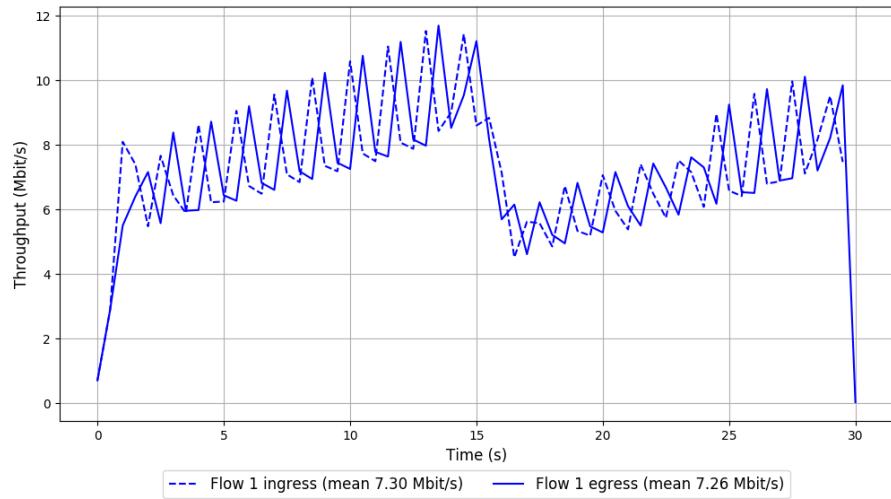


Run 9: Statistics of TCP Vegas

```
Start at: Mon, 24 Jul 2017 22:44:59 +0000
End at: Mon, 24 Jul 2017 22:45:29 +0000
Local clock offset: 1.246 ms
Remote clock offset: 8.742 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:41:16 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.26 Mbit/s
95th percentile per-packet one-way delay: 72.634 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 7.26 Mbit/s
95th percentile per-packet one-way delay: 72.634 ms
Loss rate: 0.53%
```

Run 9: Report of TCP Vegas — Data Link

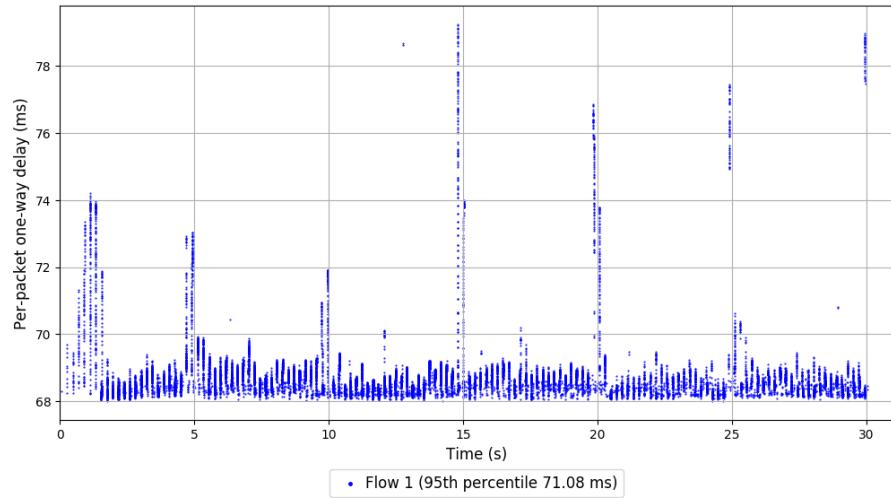
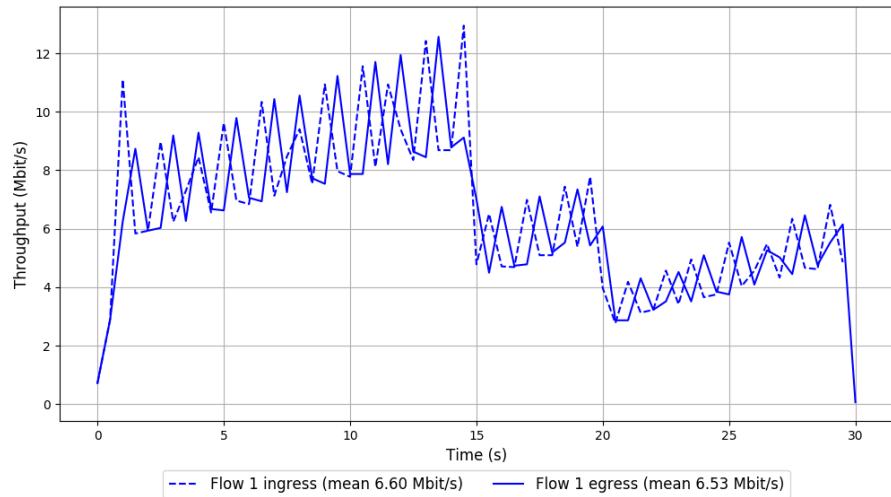


Run 10: Statistics of TCP Vegas

```
Start at: Mon, 24 Jul 2017 23:03:57 +0000
End at: Mon, 24 Jul 2017 23:04:27 +0000
Local clock offset: 1.236 ms
Remote clock offset: 8.078 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:41:17 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.53 Mbit/s
95th percentile per-packet one-way delay: 71.083 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 6.53 Mbit/s
95th percentile per-packet one-way delay: 71.083 ms
Loss rate: 0.95%
```

Run 10: Report of TCP Vegas — Data Link

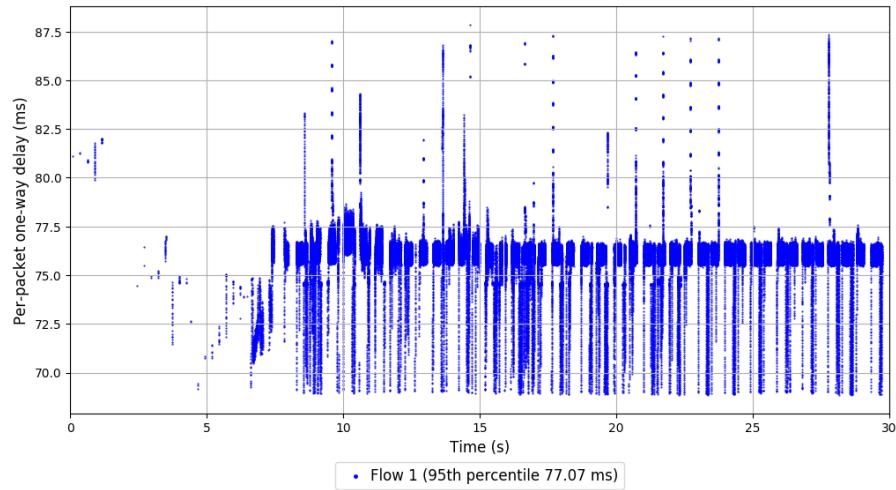
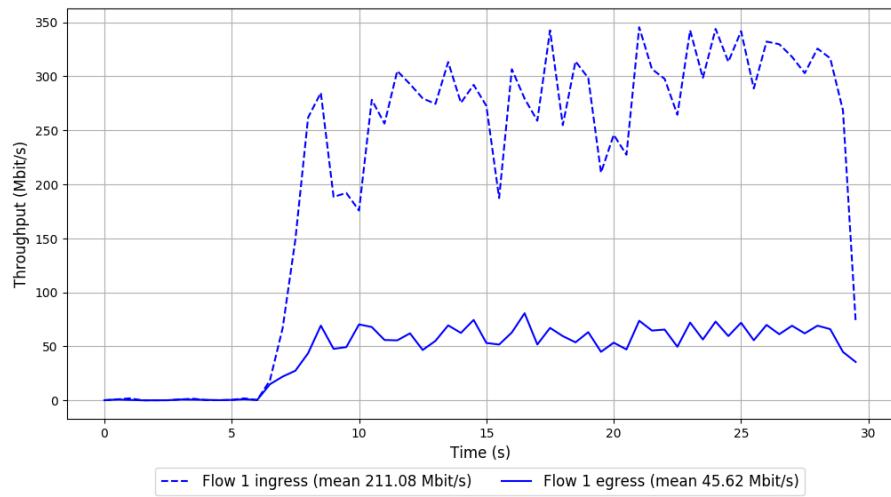


Run 1: Statistics of Verus

```
Start at: Mon, 24 Jul 2017 20:19:19 +0000
End at: Mon, 24 Jul 2017 20:19:49 +0000
Local clock offset: -0.086 ms
Remote clock offset: 5.954 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:41:28 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 45.62 Mbit/s
95th percentile per-packet one-way delay: 77.070 ms
Loss rate: 78.39%
-- Flow 1:
Average throughput: 45.62 Mbit/s
95th percentile per-packet one-way delay: 77.070 ms
Loss rate: 78.39%
```

Run 1: Report of Verus — Data Link

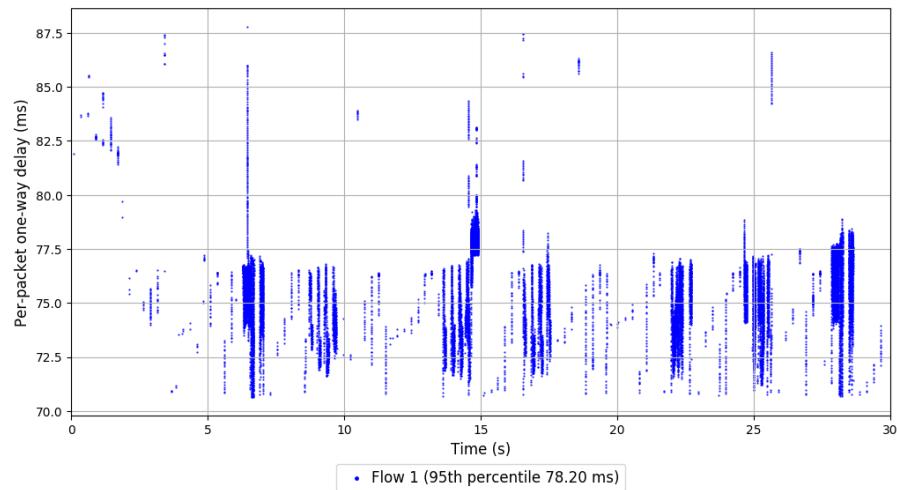
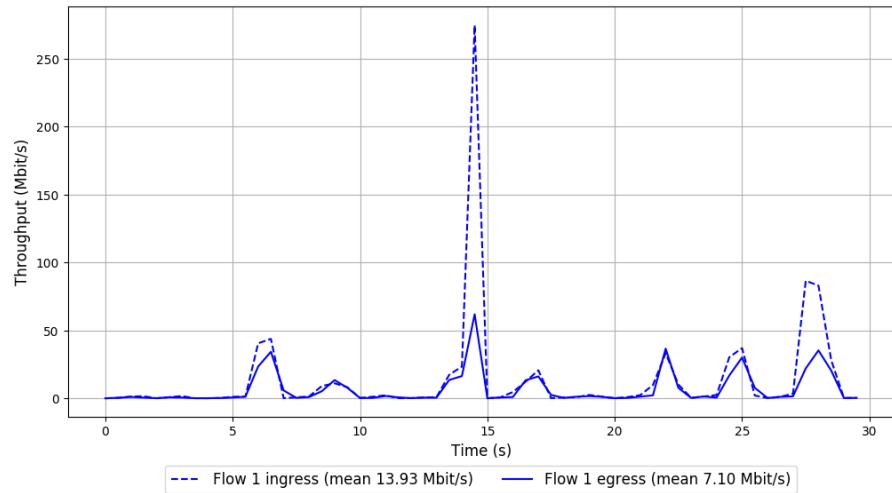


Run 2: Statistics of Verus

```
Start at: Mon, 24 Jul 2017 20:38:28 +0000
End at: Mon, 24 Jul 2017 20:38:58 +0000
Local clock offset: -0.03 ms
Remote clock offset: 8.86 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:41:28 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.10 Mbit/s
95th percentile per-packet one-way delay: 78.198 ms
Loss rate: 49.05%
-- Flow 1:
Average throughput: 7.10 Mbit/s
95th percentile per-packet one-way delay: 78.198 ms
Loss rate: 49.05%
```

Run 2: Report of Verus — Data Link

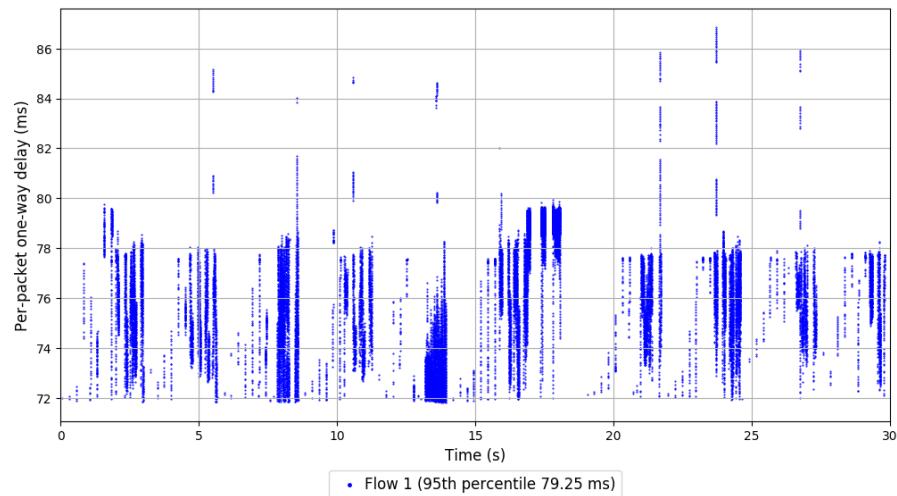
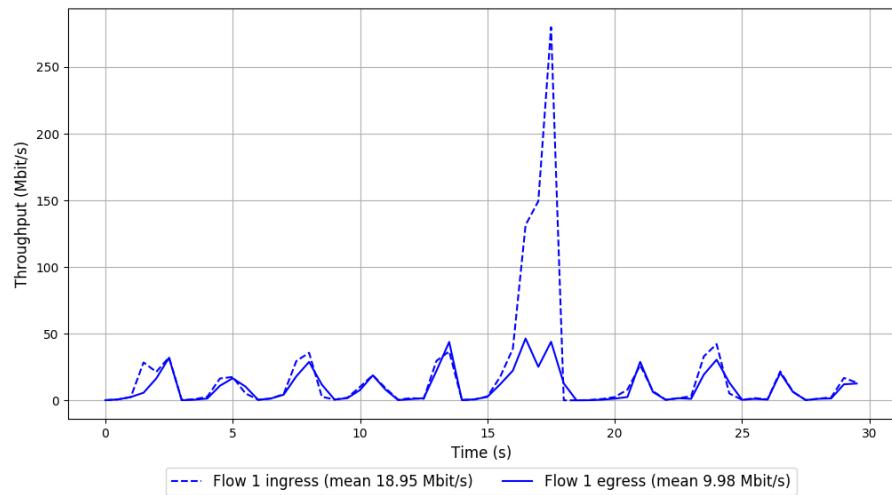


Run 3: Statistics of Verus

```
Start at: Mon, 24 Jul 2017 20:57:35 +0000
End at: Mon, 24 Jul 2017 20:58:05 +0000
Local clock offset: -1.138 ms
Remote clock offset: 8.034 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:41:28 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.98 Mbit/s
95th percentile per-packet one-way delay: 79.246 ms
Loss rate: 47.33%
-- Flow 1:
Average throughput: 9.98 Mbit/s
95th percentile per-packet one-way delay: 79.246 ms
Loss rate: 47.33%
```

Run 3: Report of Verus — Data Link

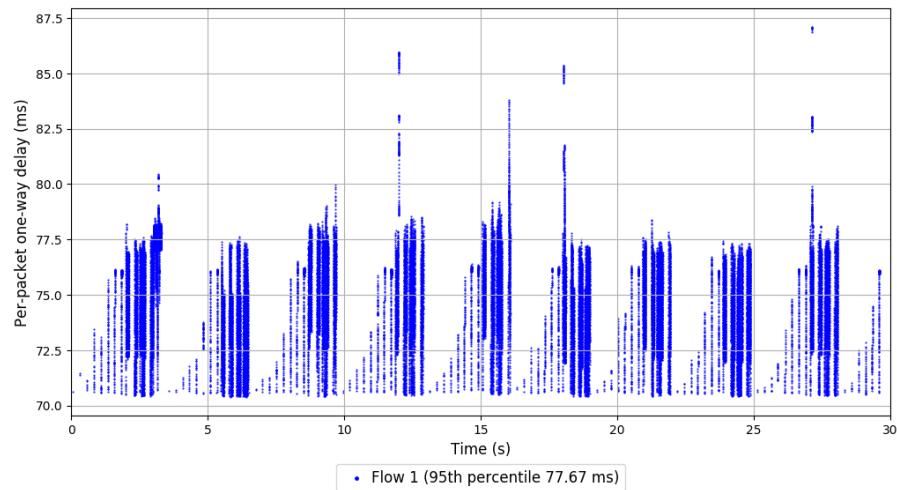
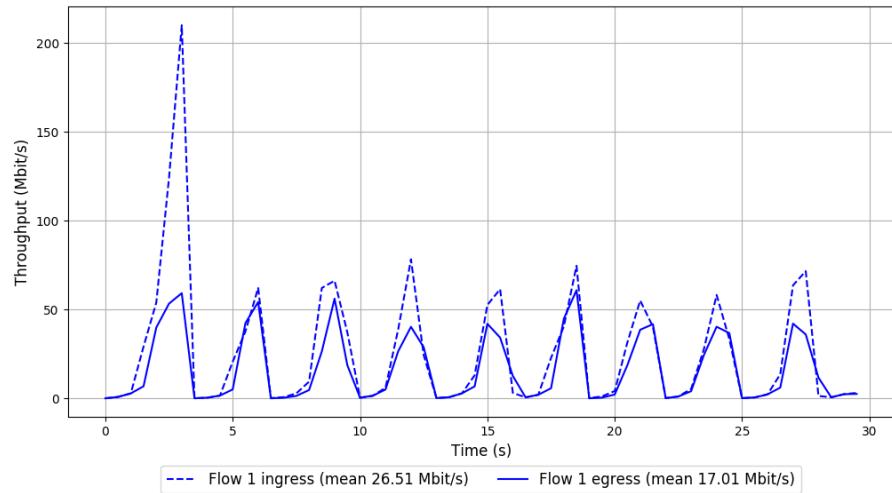


Run 4: Statistics of Verus

```
Start at: Mon, 24 Jul 2017 21:16:47 +0000
End at: Mon, 24 Jul 2017 21:17:17 +0000
Local clock offset: 0.338 ms
Remote clock offset: 7.04 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:41:28 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 17.01 Mbit/s
95th percentile per-packet one-way delay: 77.671 ms
Loss rate: 35.81%
-- Flow 1:
Average throughput: 17.01 Mbit/s
95th percentile per-packet one-way delay: 77.671 ms
Loss rate: 35.81%
```

Run 4: Report of Verus — Data Link

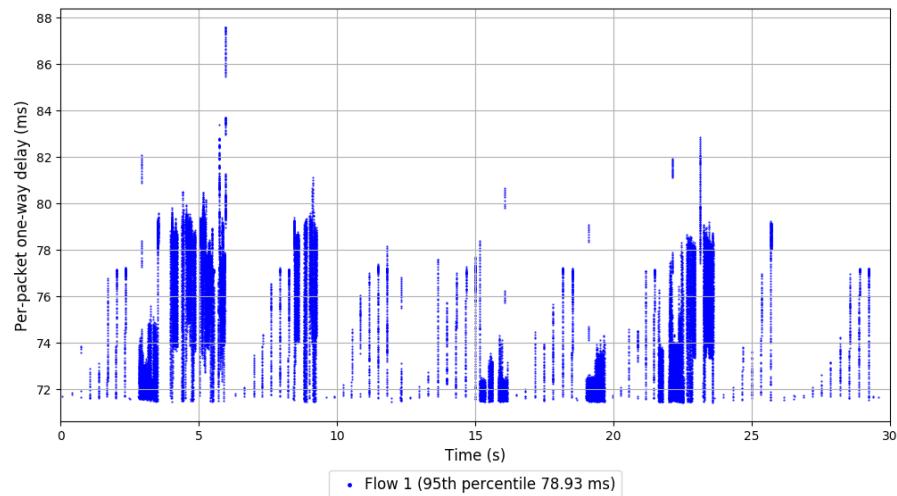
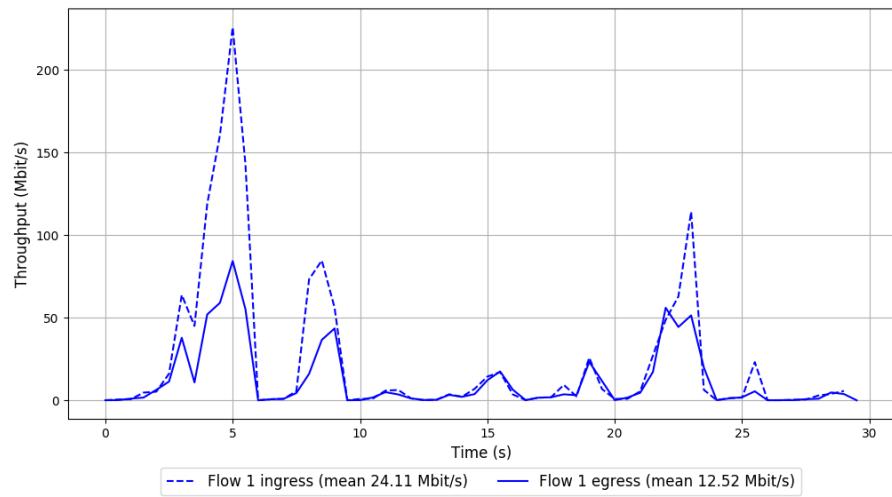


Run 5: Statistics of Verus

```
Start at: Mon, 24 Jul 2017 21:36:05 +0000
End at: Mon, 24 Jul 2017 21:36:35 +0000
Local clock offset: -0.892 ms
Remote clock offset: 6.715 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:41:28 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.52 Mbit/s
95th percentile per-packet one-way delay: 78.926 ms
Loss rate: 48.06%
-- Flow 1:
Average throughput: 12.52 Mbit/s
95th percentile per-packet one-way delay: 78.926 ms
Loss rate: 48.06%
```

Run 5: Report of Verus — Data Link

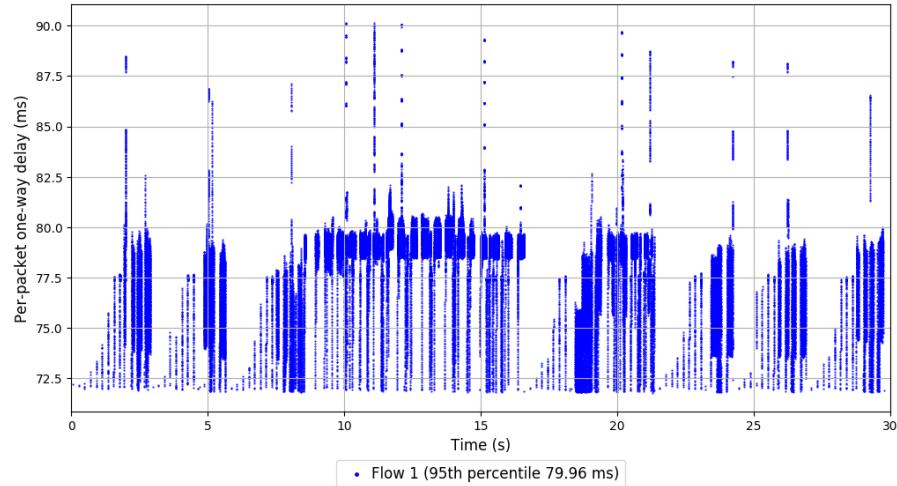
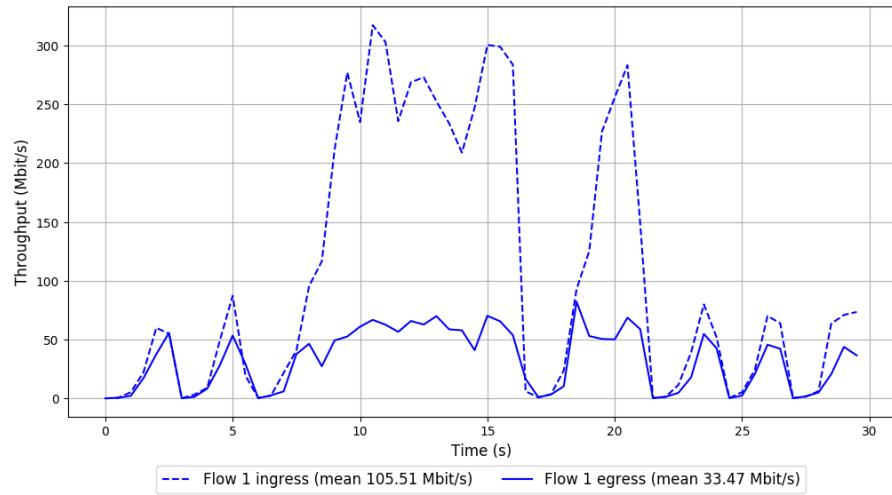


Run 6: Statistics of Verus

```
Start at: Mon, 24 Jul 2017 21:57:02 +0000
End at: Mon, 24 Jul 2017 21:57:32 +0000
Local clock offset: -0.613 ms
Remote clock offset: 7.495 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:41:32 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 33.47 Mbit/s
95th percentile per-packet one-way delay: 79.963 ms
Loss rate: 68.28%
-- Flow 1:
Average throughput: 33.47 Mbit/s
95th percentile per-packet one-way delay: 79.963 ms
Loss rate: 68.28%
```

Run 6: Report of Verus — Data Link

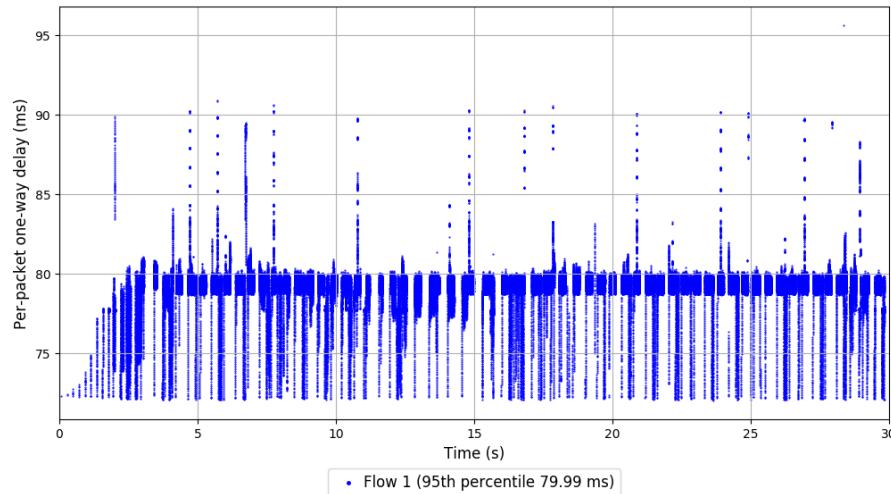
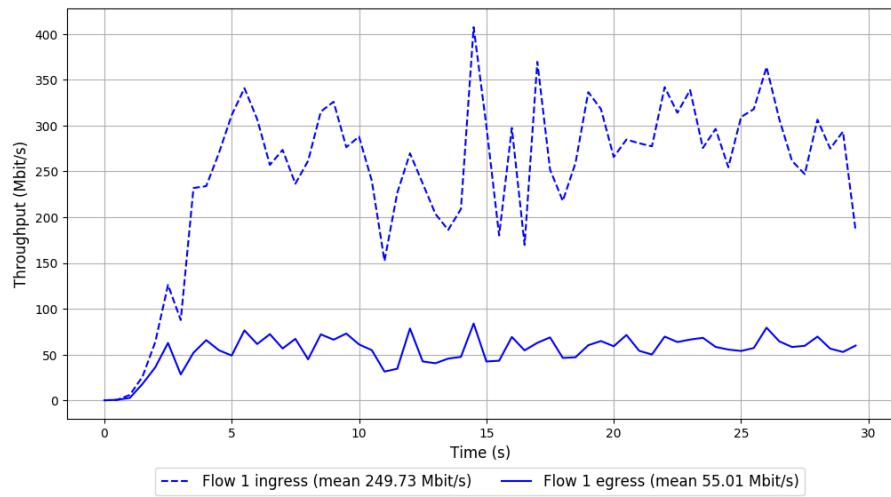


Run 7: Statistics of Verus

```
Start at: Mon, 24 Jul 2017 22:16:07 +0000
End at: Mon, 24 Jul 2017 22:16:37 +0000
Local clock offset: -0.323 ms
Remote clock offset: 8.396 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:41:42 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.01 Mbit/s
95th percentile per-packet one-way delay: 79.989 ms
Loss rate: 77.97%
-- Flow 1:
Average throughput: 55.01 Mbit/s
95th percentile per-packet one-way delay: 79.989 ms
Loss rate: 77.97%
```

Run 7: Report of Verus — Data Link

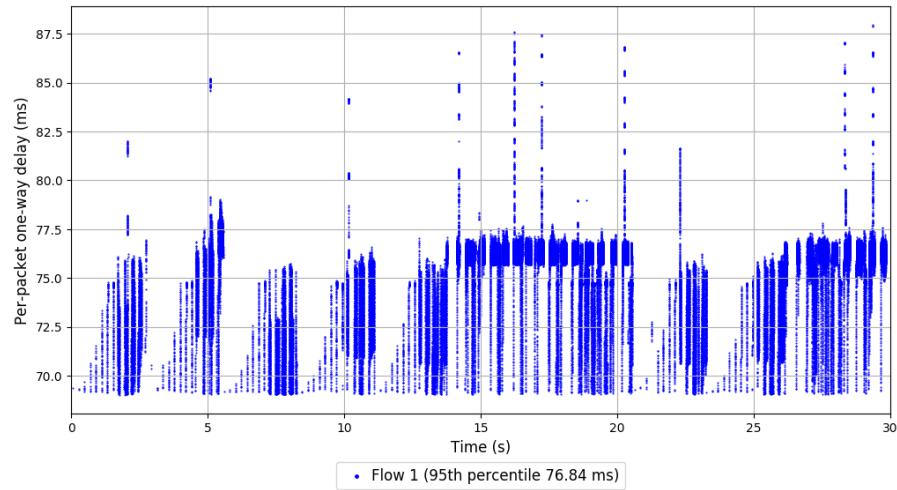
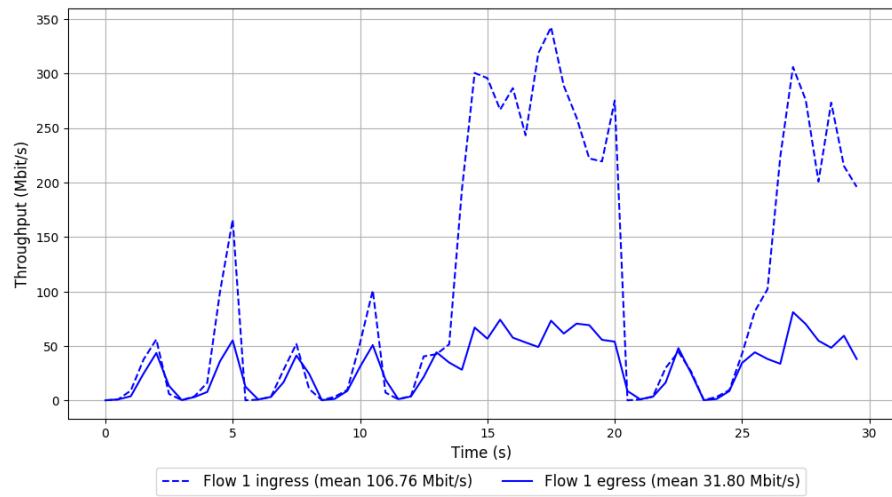


Run 8: Statistics of Verus

```
Start at: Mon, 24 Jul 2017 22:36:05 +0000
End at: Mon, 24 Jul 2017 22:36:35 +0000
Local clock offset: -0.166 ms
Remote clock offset: 8.981 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:41:42 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 31.80 Mbit/s
95th percentile per-packet one-way delay: 76.839 ms
Loss rate: 70.21%
-- Flow 1:
Average throughput: 31.80 Mbit/s
95th percentile per-packet one-way delay: 76.839 ms
Loss rate: 70.21%
```

Run 8: Report of Verus — Data Link

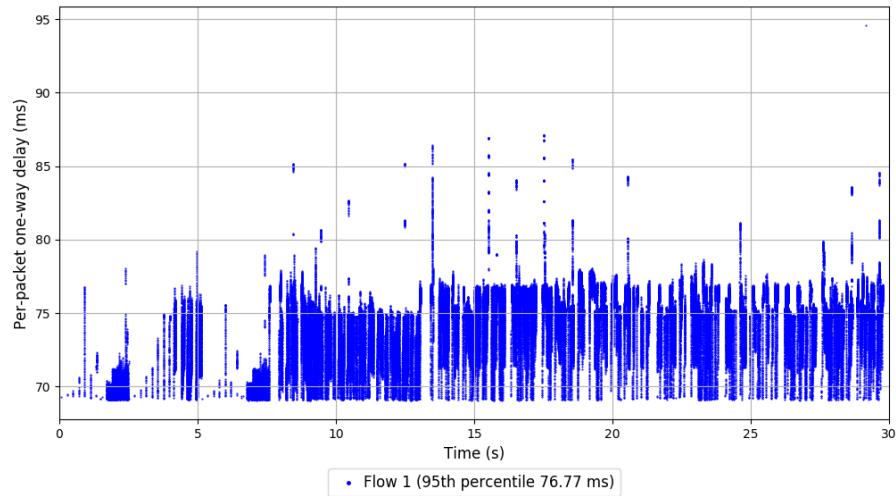
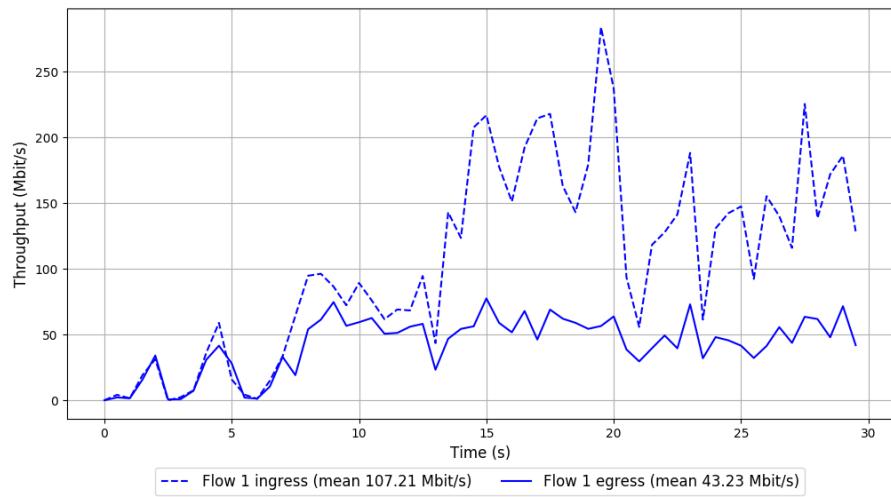


Run 9: Statistics of Verus

```
Start at: Mon, 24 Jul 2017 22:55:05 +0000
End at: Mon, 24 Jul 2017 22:55:35 +0000
Local clock offset: -0.105 ms
Remote clock offset: 8.376 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:41:45 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.23 Mbit/s
95th percentile per-packet one-way delay: 76.772 ms
Loss rate: 59.67%
-- Flow 1:
Average throughput: 43.23 Mbit/s
95th percentile per-packet one-way delay: 76.772 ms
Loss rate: 59.67%
```

Run 9: Report of Verus — Data Link

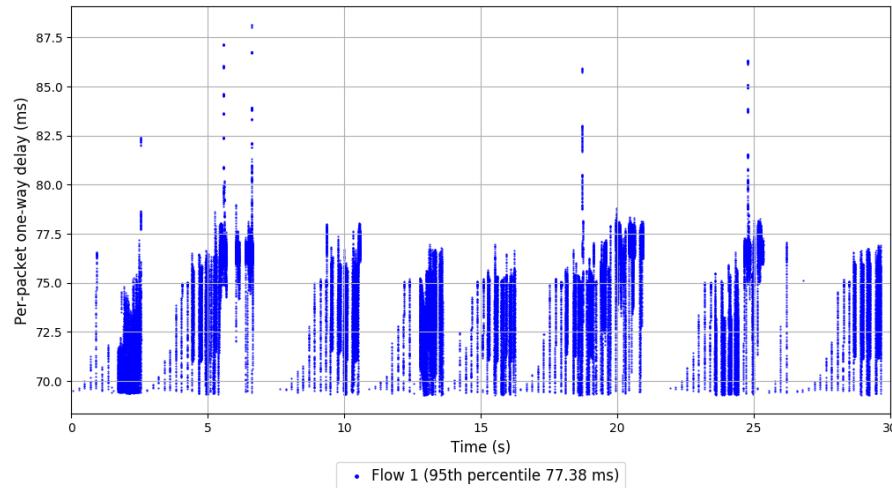
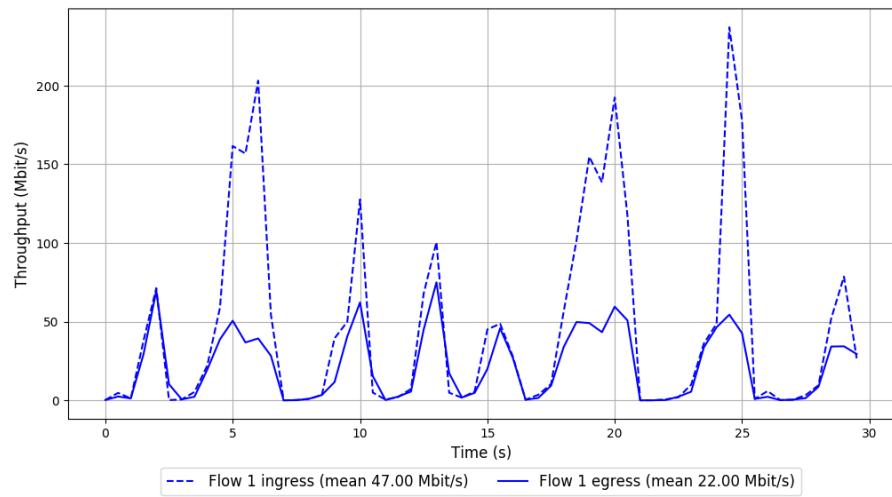


Run 10: Statistics of Verus

```
Start at: Mon, 24 Jul 2017 23:14:02 +0000
End at: Mon, 24 Jul 2017 23:14:32 +0000
Local clock offset: -0.038 ms
Remote clock offset: 7.808 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:41:47 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 22.00 Mbit/s
95th percentile per-packet one-way delay: 77.381 ms
Loss rate: 53.18%
-- Flow 1:
Average throughput: 22.00 Mbit/s
95th percentile per-packet one-way delay: 77.381 ms
Loss rate: 53.18%
```

Run 10: Report of Verus — Data Link

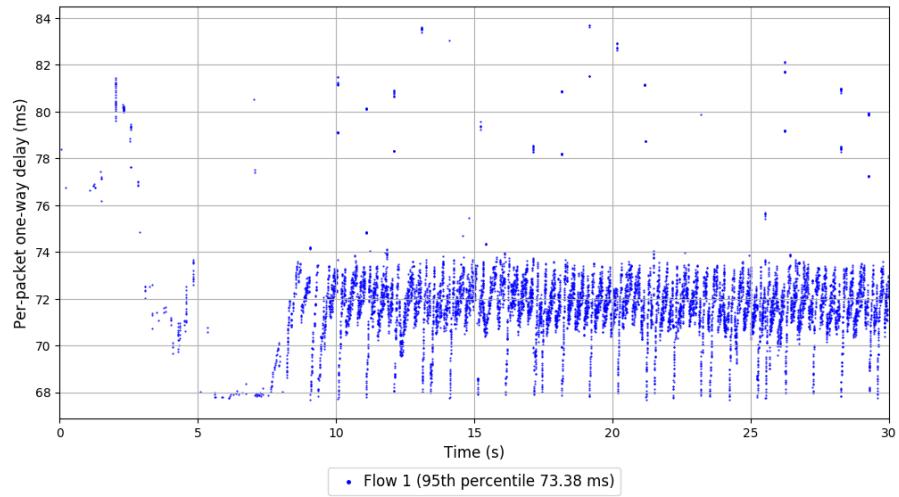
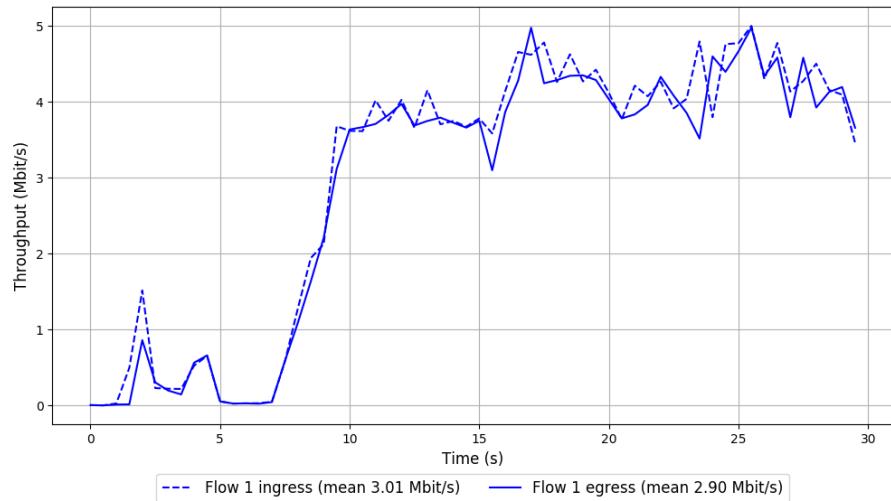


```
Run 1: Statistics of WebRTC media

Start at: Mon, 24 Jul 2017 20:02:49 +0000
End at: Mon, 24 Jul 2017 20:03:19 +0000
Local clock offset: -1.373 ms
Remote clock offset: 4.229 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:41:47 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.90 Mbit/s
95th percentile per-packet one-way delay: 73.382 ms
Loss rate: 3.49%
-- Flow 1:
Average throughput: 2.90 Mbit/s
95th percentile per-packet one-way delay: 73.382 ms
Loss rate: 3.49%
```

Run 1: Report of WebRTC media — Data Link

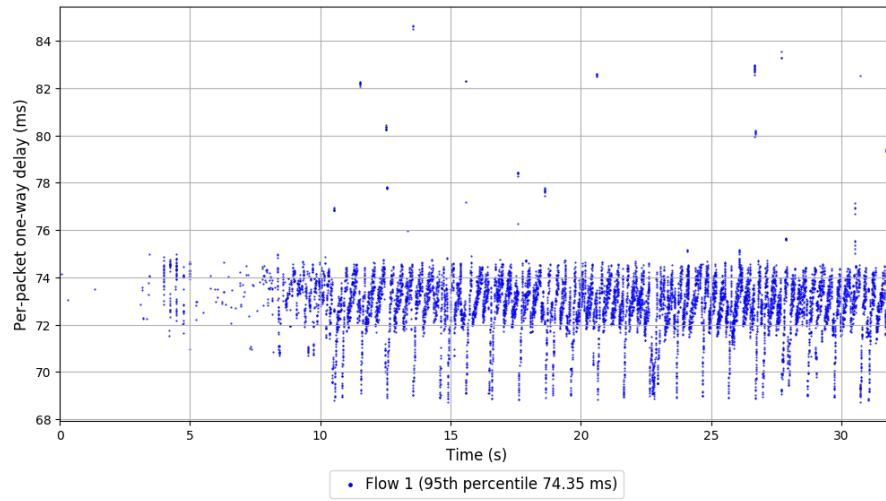
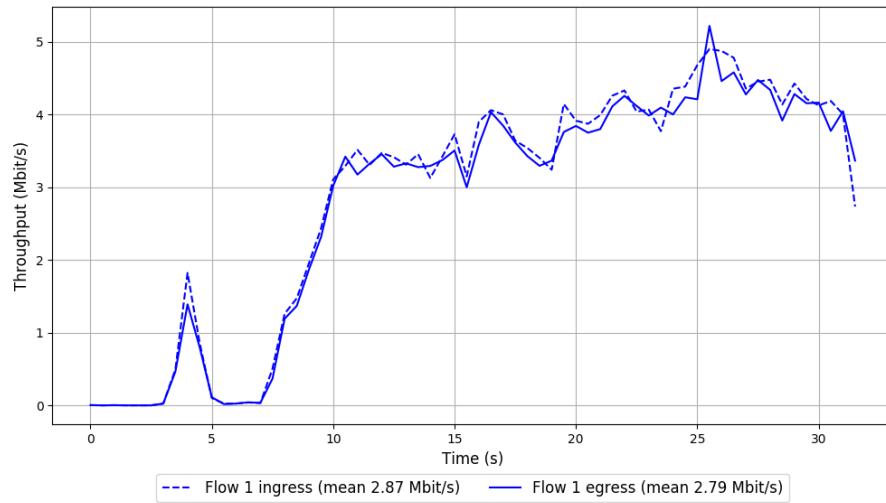


Run 2: Statistics of WebRTC media

```
Start at: Mon, 24 Jul 2017 20:21:57 +0000
End at: Mon, 24 Jul 2017 20:22:27 +0000
Local clock offset: -1.311 ms
Remote clock offset: 7.776 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:41:49 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.79 Mbit/s
95th percentile per-packet one-way delay: 74.354 ms
Loss rate: 2.61%
-- Flow 1:
Average throughput: 2.79 Mbit/s
95th percentile per-packet one-way delay: 74.354 ms
Loss rate: 2.61%
```

Run 2: Report of WebRTC media — Data Link

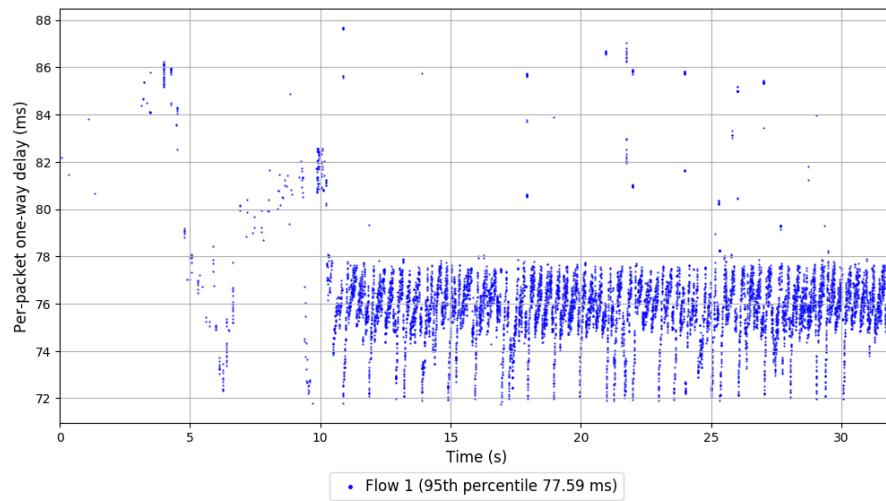
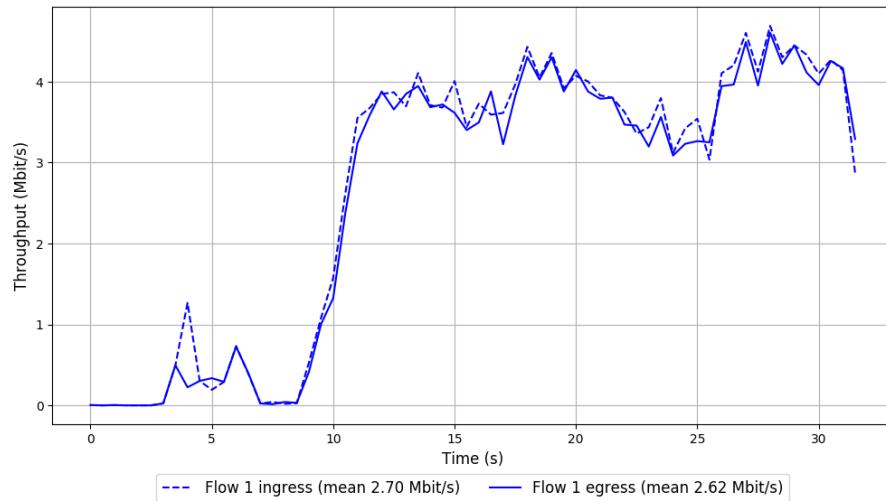


Run 3: Statistics of WebRTC media

```
Start at: Mon, 24 Jul 2017 20:41:02 +0000
End at: Mon, 24 Jul 2017 20:41:32 +0000
Local clock offset: -1.253 ms
Remote clock offset: 8.483 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:41:49 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.62 Mbit/s
95th percentile per-packet one-way delay: 77.587 ms
Loss rate: 2.91%
-- Flow 1:
Average throughput: 2.62 Mbit/s
95th percentile per-packet one-way delay: 77.587 ms
Loss rate: 2.91%
```

Run 3: Report of WebRTC media — Data Link

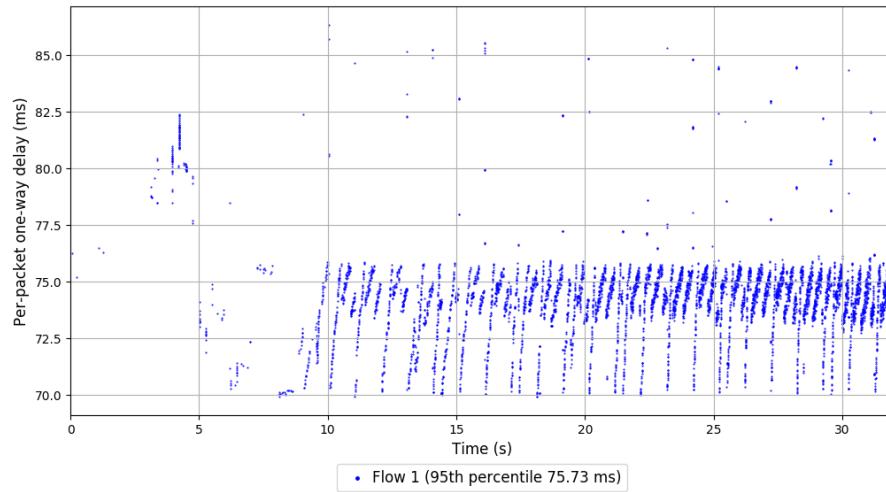
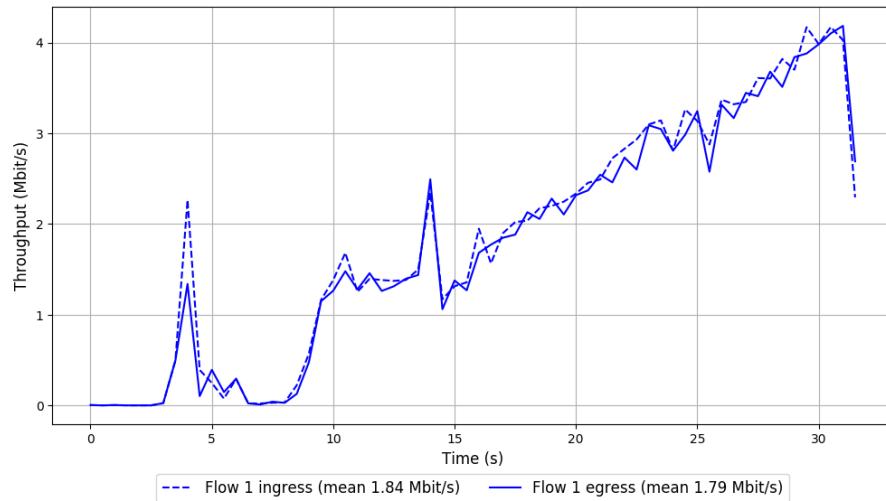


Run 4: Statistics of WebRTC media

```
Start at: Mon, 24 Jul 2017 21:00:09 +0000
End at: Mon, 24 Jul 2017 21:00:39 +0000
Local clock offset: -1.162 ms
Remote clock offset: 6.162 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:41:50 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 75.731 ms
Loss rate: 3.01%
-- Flow 1:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 75.731 ms
Loss rate: 3.01%
```

Run 4: Report of WebRTC media — Data Link

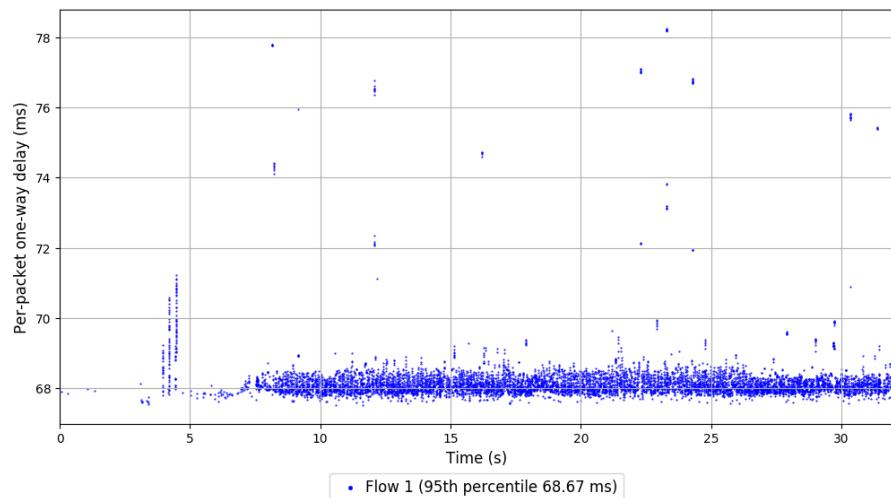
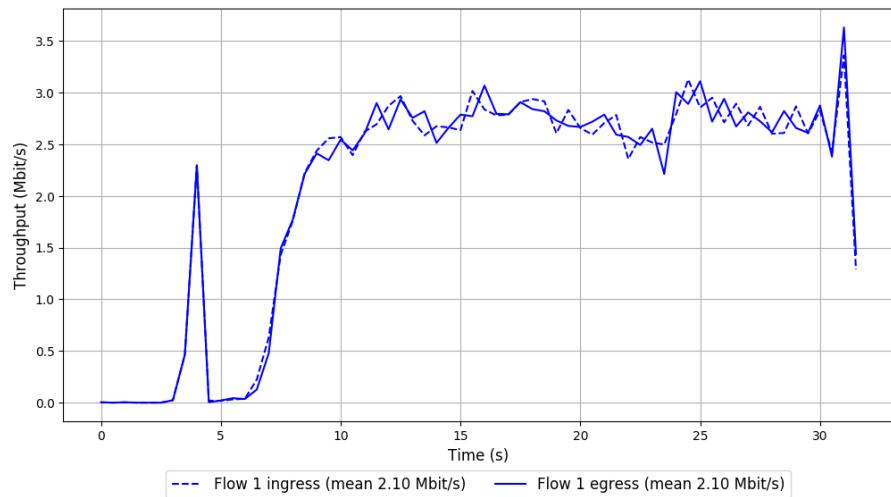


```
Run 5: Statistics of WebRTC media

Start at: Mon, 24 Jul 2017 21:19:18 +0000
End at: Mon, 24 Jul 2017 21:19:48 +0000
Local clock offset: 0.232 ms
Remote clock offset: 6.885 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:41:51 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 68.665 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 68.665 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

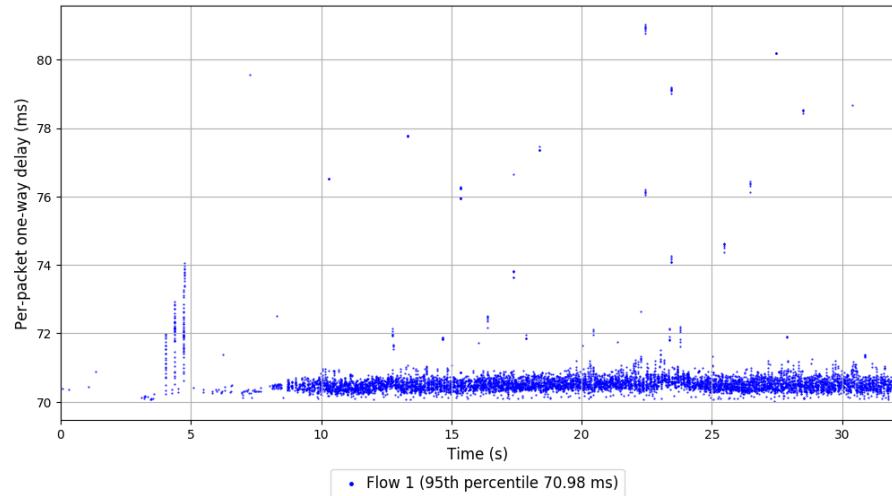
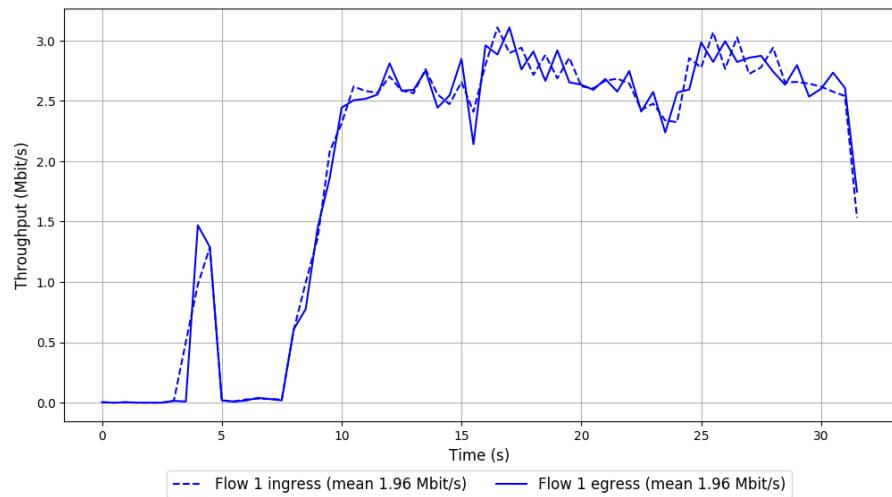


Run 6: Statistics of WebRTC media

```
Start at: Mon, 24 Jul 2017 21:38:42 +0000
End at: Mon, 24 Jul 2017 21:39:13 +0000
Local clock offset: 0.4 ms
Remote clock offset: 6.751 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:41:51 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 70.983 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 70.983 ms
Loss rate: 0.00%
```

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: Mon, 24 Jul 2017 21:59:40 +0000

End at: Mon, 24 Jul 2017 22:00:10 +0000

Local clock offset: -0.562 ms

Remote clock offset: 7.558 ms

Below is generated by plot.py at Tue, 25 Jul 2017 02:41:52 +0000

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 72.518 ms

Loss rate: 0.00%

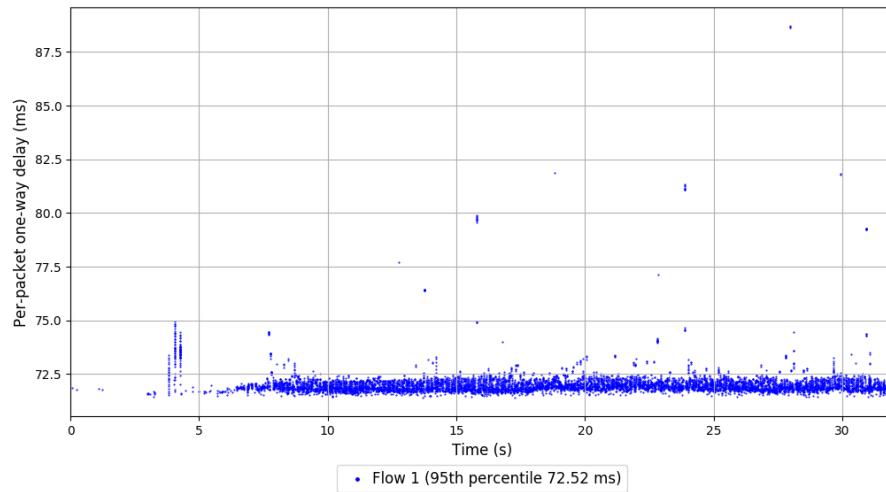
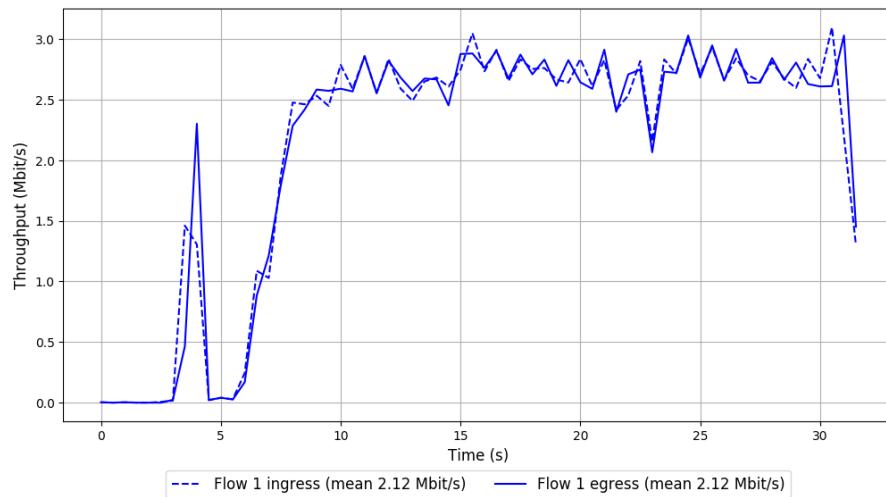
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 72.518 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

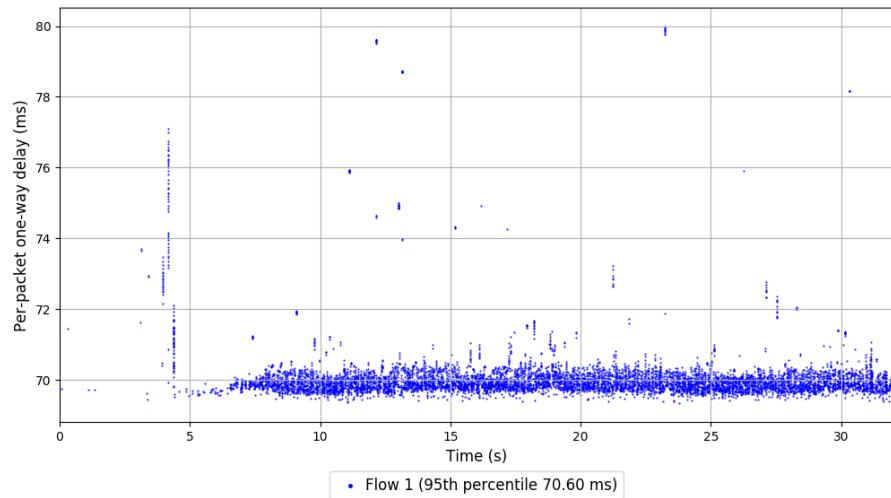
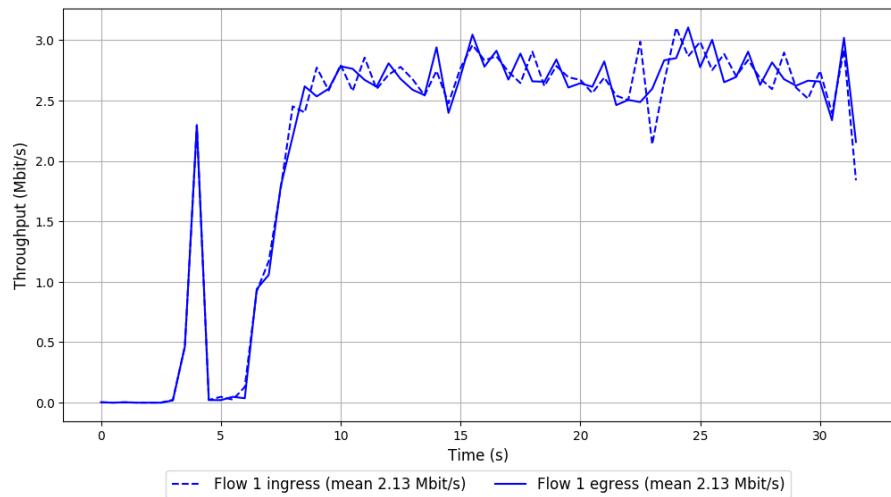


Run 8: Statistics of WebRTC media

```
Start at: Mon, 24 Jul 2017 22:18:46 +0000
End at: Mon, 24 Jul 2017 22:19:16 +0000
Local clock offset: -0.884 ms
Remote clock offset: 8.458 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:41:53 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 70.602 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 70.602 ms
Loss rate: 0.00%
```

Run 8: Report of WebRTC media — Data Link

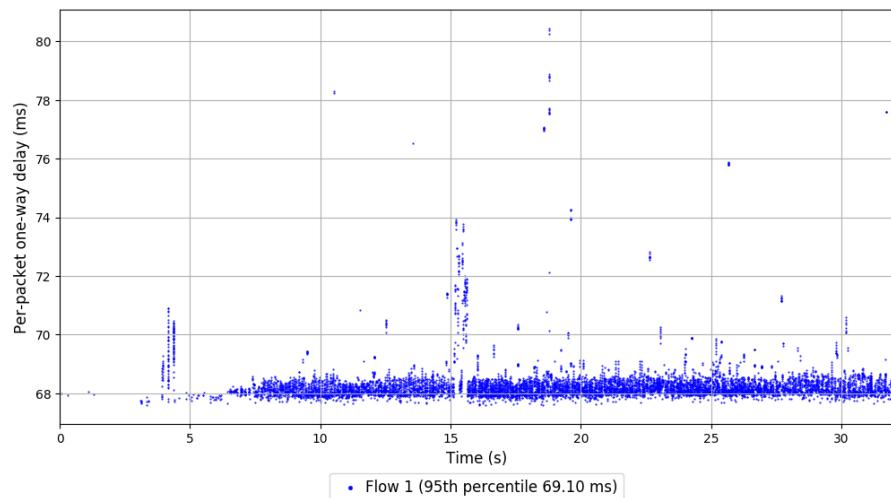
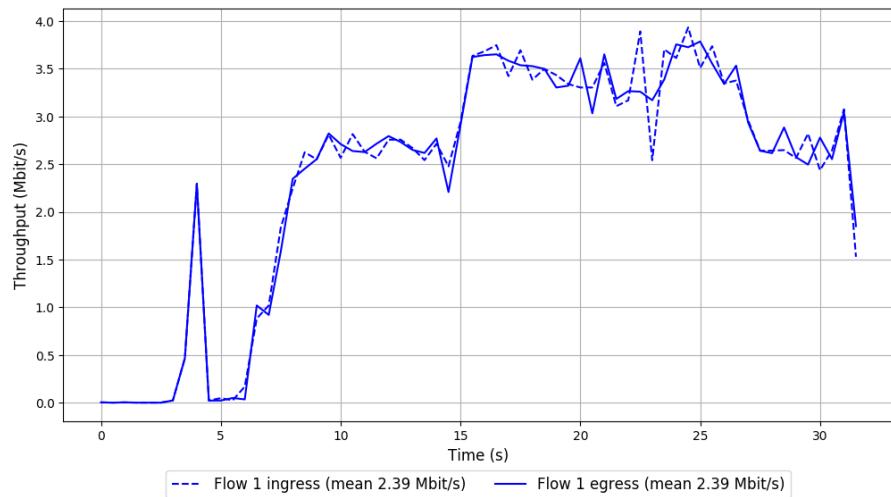


Run 9: Statistics of WebRTC media

```
Start at: Mon, 24 Jul 2017 22:38:38 +0000
End at: Mon, 24 Jul 2017 22:39:08 +0000
Local clock offset: 1.056 ms
Remote clock offset: 8.918 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:41:54 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 69.100 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 69.100 ms
Loss rate: 0.03%
```

Run 9: Report of WebRTC media — Data Link



```
Run 10: Statistics of WebRTC media
```

```
Start at: Mon, 24 Jul 2017 22:57:39 +0000
End at: Mon, 24 Jul 2017 22:58:09 +0000
Local clock offset: 1.183 ms
Remote clock offset: 8.184 ms

# Below is generated by plot.py at Tue, 25 Jul 2017 02:41:54 +0000
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.15 Mbit/s
95th percentile per-packet one-way delay: 71.430 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.15 Mbit/s
95th percentile per-packet one-way delay: 71.430 ms
Loss rate: 0.00%
```

Run 10: Report of WebRTC media — Data Link

