

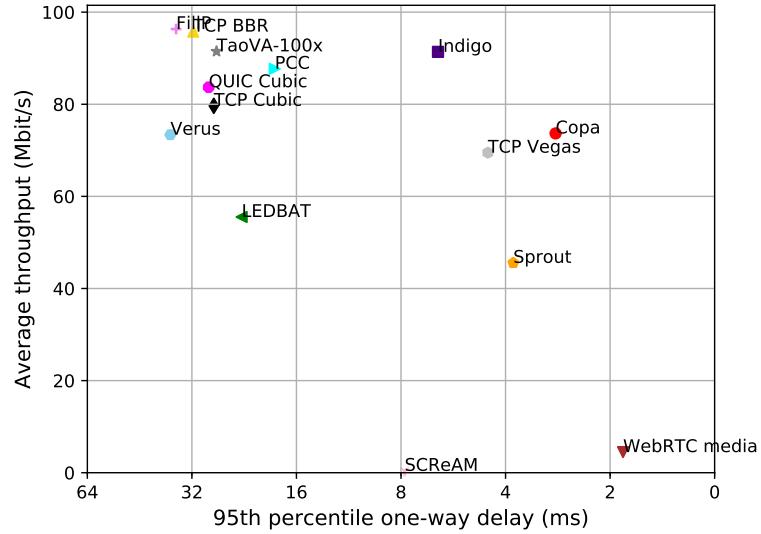
Pantheon Report

Generated at 2017-12-20 11:55:46 (UTC).
Data path: AWS India 1 Ethernet (*local*) → India Ethernet (*remote*).
Repeated the test of 14 congestion control schemes 10 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).
NTP offsets were measured against nets.org.sg and have been applied to correct the timestamps in logs.

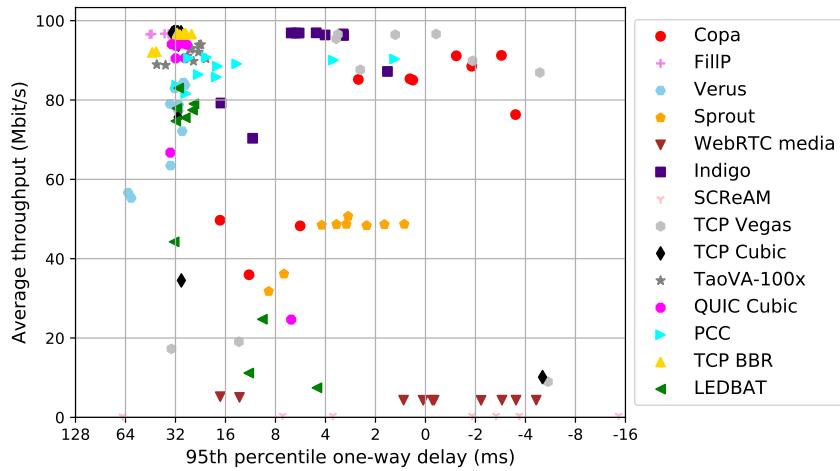
Git summary:

```
branch: master @ 904a5750834816b1e46a2c86405d707788d27c16
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ dcaef6b00654e660f73f7ed679d2eab61ce08639
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
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 India 1 Ethernet to India Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



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



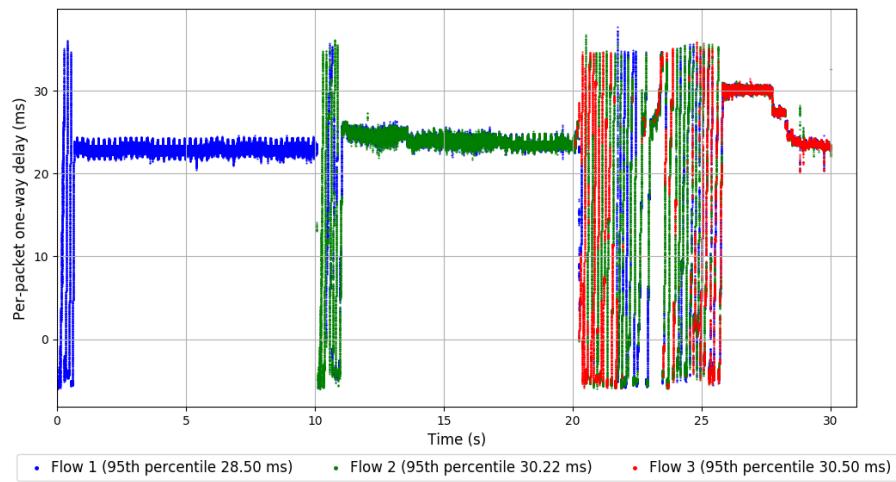
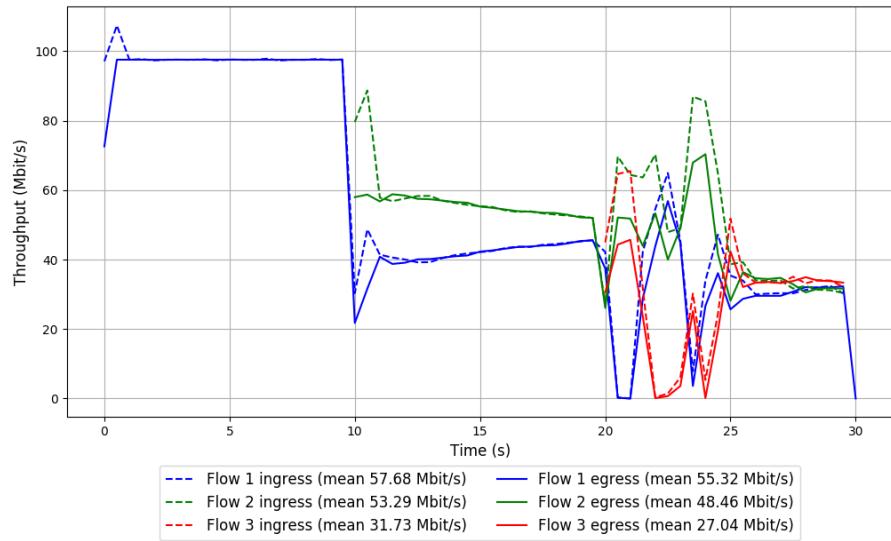
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	59.81	39.25	29.83	30.14	32.27	33.36	7.59	11.77	13.57
TCP Cubic		55.06	27.65	18.72	27.91	25.90	28.13	0.89	0.86	0.82
LEDBAT		33.86	23.47	18.31	21.93	23.39	23.68	0.65	0.73	0.75
PCC		74.23	15.81	8.98	17.91	20.87	16.47	1.08	0.96	0.79
QUIC Cubic		56.20	30.69	21.85	28.64	28.81	28.56	1.57	2.15	2.20
SCReAM		0.21	0.20	0.20	7.47	8.31	6.26	0.20	0.24	1.36
WebRTC media		2.42	1.53	0.54	1.70	1.36	2.24	0.10	0.11	0.04
Sprout		22.81	22.77	22.27	3.96	3.27	3.60	0.10	0.09	0.08
TaoVA-100x		57.07	39.78	31.22	24.15	28.19	30.78	7.67	15.17	19.29
TCP Vegas		40.68	27.61	31.41	4.35	-0.06	2.11	0.39	0.14	0.18
Verus	10	46.61	32.68	16.90	34.28	37.63	32.46	28.98	39.66	35.29
Copa	10	45.43	31.01	29.37	2.43	3.36	3.50	0.09	0.10	0.08
FillP	9	52.68	40.11	51.55	35.13	35.94	36.11	25.97	31.63	34.61
Indigo	10	51.90	39.95	38.36	6.31	6.83	9.51	0.35	0.33	0.29

Run 1: Statistics of TCP BBR

```
Start at: 2017-12-20 08:05:19
End at: 2017-12-20 08:05:49
Local clock offset: 1.069 ms
Remote clock offset: -13.184 ms

# Below is generated by plot.py at 2017-12-20 11:35:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.51 Mbit/s
95th percentile per-packet one-way delay: 30.188 ms
Loss rate: 6.81%
-- Flow 1:
Average throughput: 55.32 Mbit/s
95th percentile per-packet one-way delay: 28.503 ms
Loss rate: 3.97%
-- Flow 2:
Average throughput: 48.46 Mbit/s
95th percentile per-packet one-way delay: 30.220 ms
Loss rate: 9.07%
-- Flow 3:
Average throughput: 27.04 Mbit/s
95th percentile per-packet one-way delay: 30.499 ms
Loss rate: 14.77%
```

Run 1: Report of TCP BBR — Data Link

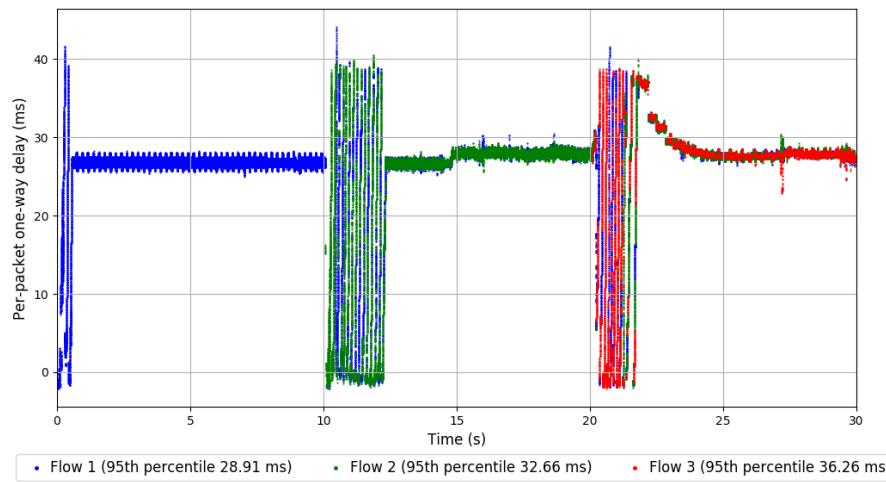
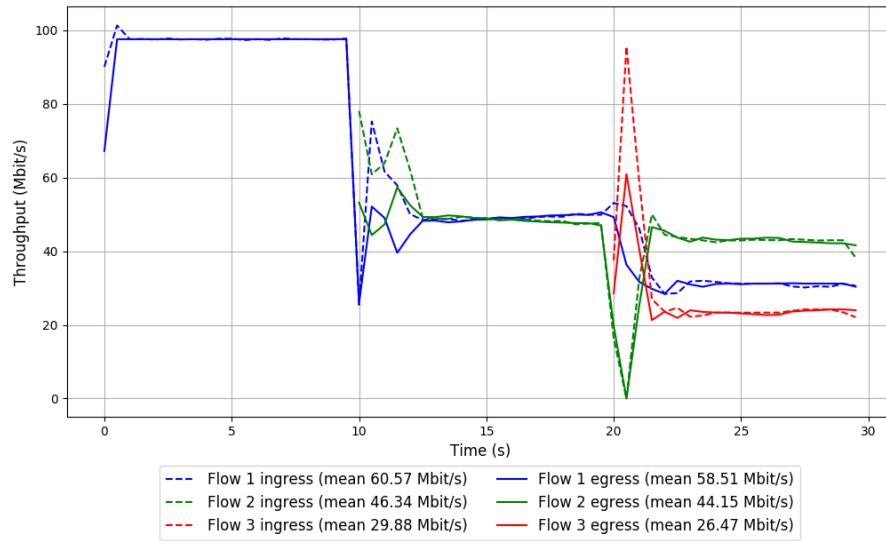


Run 2: Statistics of TCP BBR

```
Start at: 2017-12-20 08:24:03
End at: 2017-12-20 08:24:33
Local clock offset: -0.013 ms
Remote clock offset: -11.587 ms

# Below is generated by plot.py at 2017-12-20 11:35:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.65 Mbit/s
95th percentile per-packet one-way delay: 31.224 ms
Loss rate: 4.53%
-- Flow 1:
Average throughput: 58.51 Mbit/s
95th percentile per-packet one-way delay: 28.905 ms
Loss rate: 3.30%
-- Flow 2:
Average throughput: 44.15 Mbit/s
95th percentile per-packet one-way delay: 32.657 ms
Loss rate: 4.73%
-- Flow 3:
Average throughput: 26.47 Mbit/s
95th percentile per-packet one-way delay: 36.259 ms
Loss rate: 11.41%
```

Run 2: Report of TCP BBR — Data Link

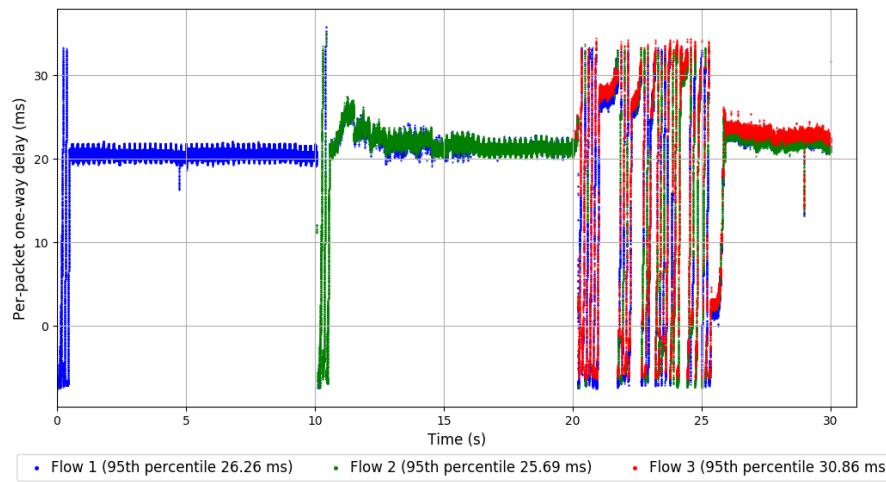
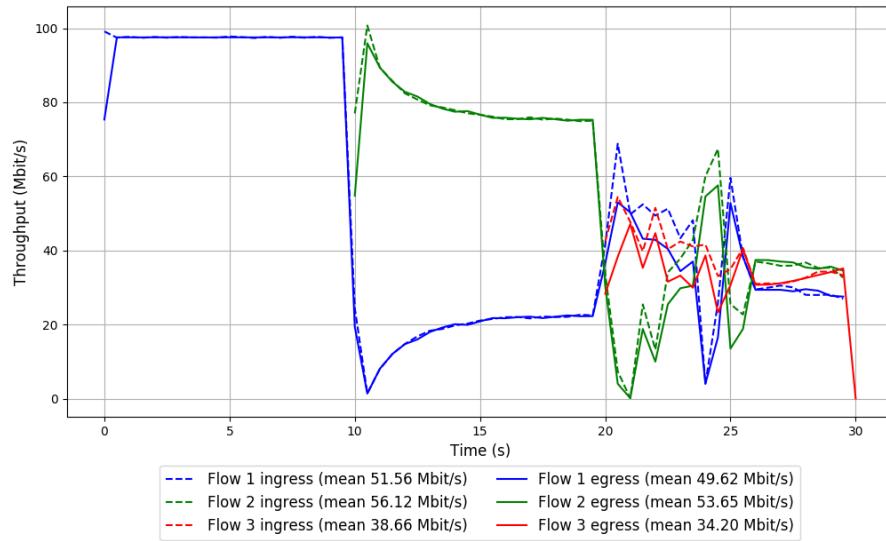


Run 3: Statistics of TCP BBR

```
Start at: 2017-12-20 08:42:04
End at: 2017-12-20 08:42:34
Local clock offset: 4.418 ms
Remote clock offset: -11.377 ms

# Below is generated by plot.py at 2017-12-20 11:35:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.63 Mbit/s
95th percentile per-packet one-way delay: 27.641 ms
Loss rate: 4.92%
-- Flow 1:
Average throughput: 49.62 Mbit/s
95th percentile per-packet one-way delay: 26.260 ms
Loss rate: 3.67%
-- Flow 2:
Average throughput: 53.65 Mbit/s
95th percentile per-packet one-way delay: 25.690 ms
Loss rate: 4.38%
-- Flow 3:
Average throughput: 34.20 Mbit/s
95th percentile per-packet one-way delay: 30.860 ms
Loss rate: 11.48%
```

Run 3: Report of TCP BBR — Data Link

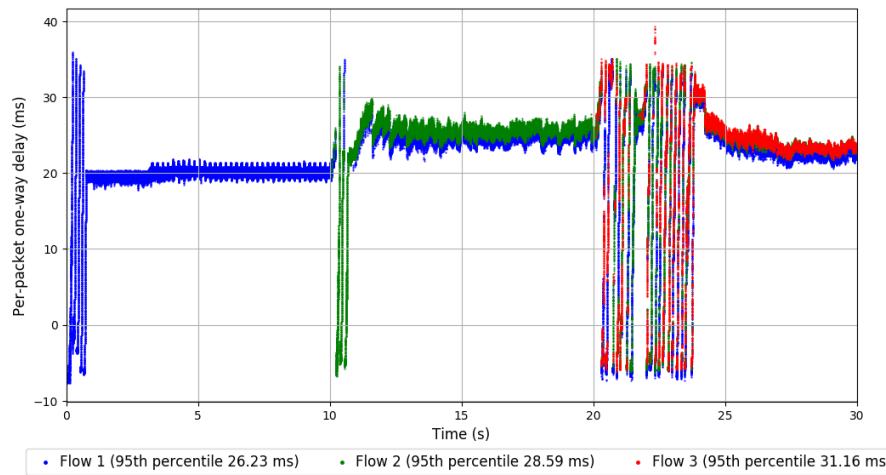
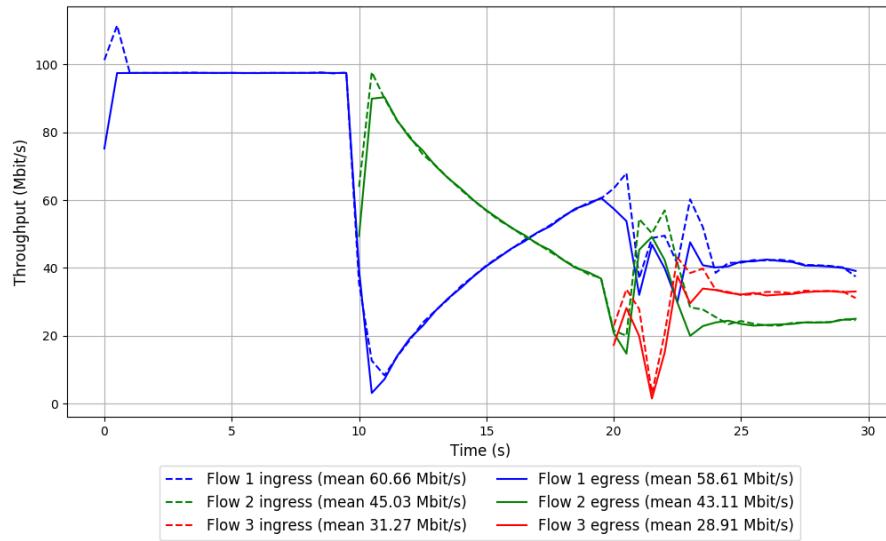


Run 4: Statistics of TCP BBR

```
Start at: 2017-12-20 09:00:18
End at: 2017-12-20 09:00:48
Local clock offset: 3.678 ms
Remote clock offset: -12.176 ms

# Below is generated by plot.py at 2017-12-20 11:35:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.87 Mbit/s
95th percentile per-packet one-way delay: 28.002 ms
Loss rate: 4.03%
-- Flow 1:
Average throughput: 58.61 Mbit/s
95th percentile per-packet one-way delay: 26.228 ms
Loss rate: 3.29%
-- Flow 2:
Average throughput: 43.11 Mbit/s
95th percentile per-packet one-way delay: 28.589 ms
Loss rate: 4.28%
-- Flow 3:
Average throughput: 28.91 Mbit/s
95th percentile per-packet one-way delay: 31.155 ms
Loss rate: 7.59%
```

Run 4: Report of TCP BBR — Data Link

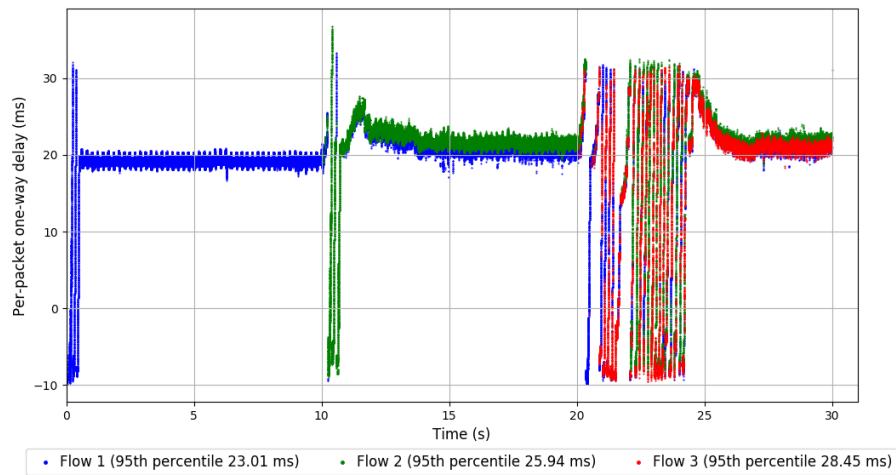
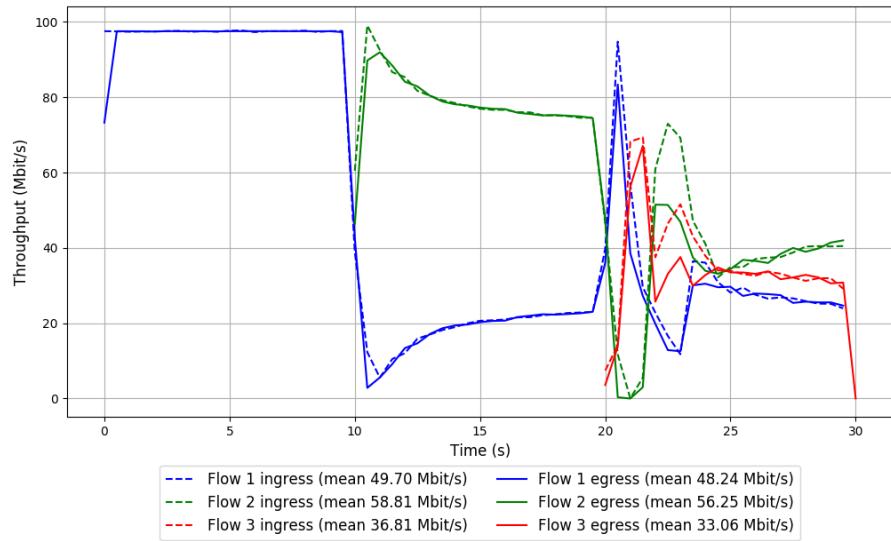


Run 5: Statistics of TCP BBR

```
Start at: 2017-12-20 09:19:34
End at: 2017-12-20 09:20:04
Local clock offset: 3.923 ms
Remote clock offset: -15.805 ms

# Below is generated by plot.py at 2017-12-20 11:35:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.61 Mbit/s
95th percentile per-packet one-way delay: 25.598 ms
Loss rate: 4.30%
-- Flow 1:
Average throughput: 48.24 Mbit/s
95th percentile per-packet one-way delay: 23.011 ms
Loss rate: 2.84%
-- Flow 2:
Average throughput: 56.25 Mbit/s
95th percentile per-packet one-way delay: 25.936 ms
Loss rate: 4.35%
-- Flow 3:
Average throughput: 33.06 Mbit/s
95th percentile per-packet one-way delay: 28.445 ms
Loss rate: 10.07%
```

Run 5: Report of TCP BBR — Data Link

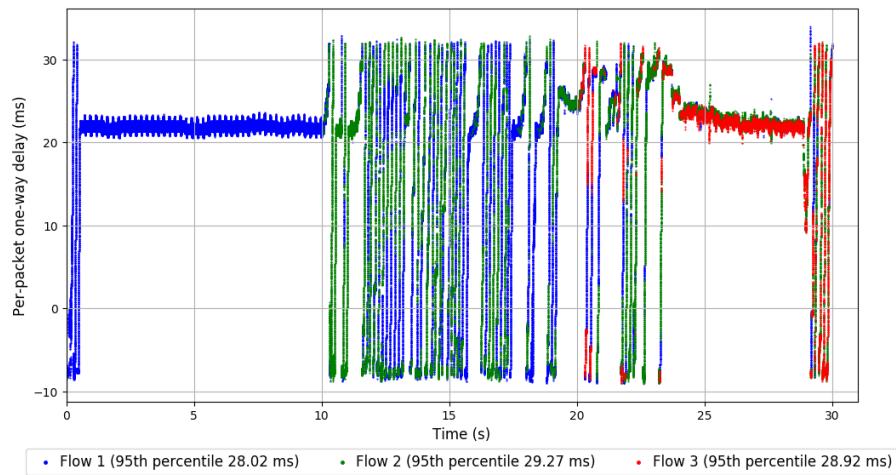
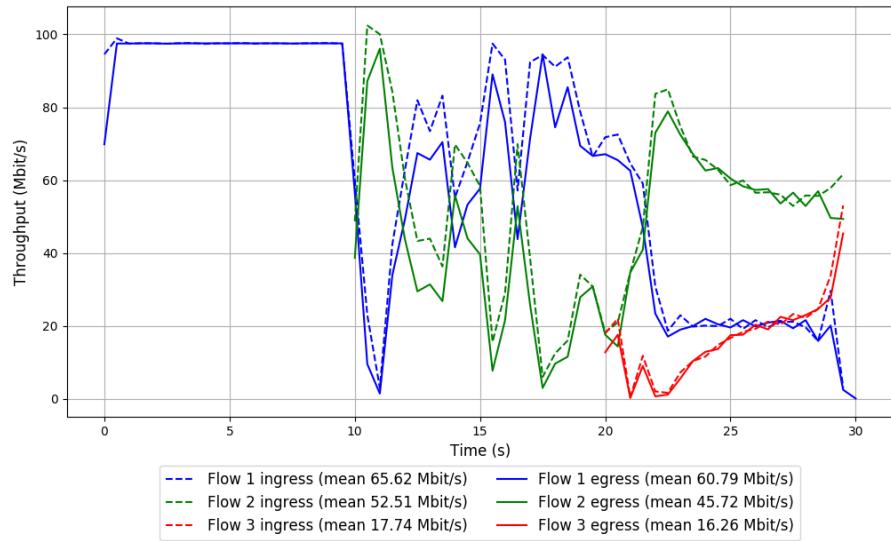


Run 6: Statistics of TCP BBR

```
Start at: 2017-12-20 09:38:18
End at: 2017-12-20 09:38:48
Local clock offset: 4.078 ms
Remote clock offset: -15.404 ms

# Below is generated by plot.py at 2017-12-20 11:35:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.60 Mbit/s
95th percentile per-packet one-way delay: 28.694 ms
Loss rate: 9.17%
-- Flow 1:
Average throughput: 60.79 Mbit/s
95th percentile per-packet one-way delay: 28.024 ms
Loss rate: 7.24%
-- Flow 2:
Average throughput: 45.72 Mbit/s
95th percentile per-packet one-way delay: 29.267 ms
Loss rate: 12.93%
-- Flow 3:
Average throughput: 16.26 Mbit/s
95th percentile per-packet one-way delay: 28.916 ms
Loss rate: 8.33%
```

Run 6: Report of TCP BBR — Data Link

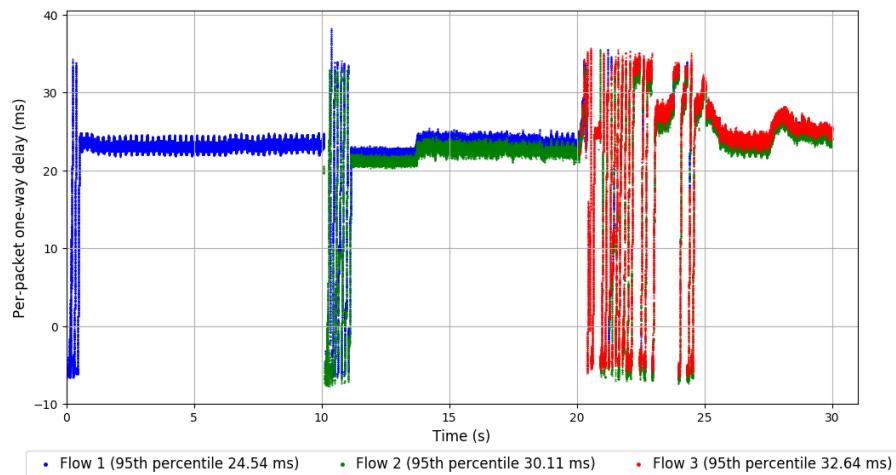
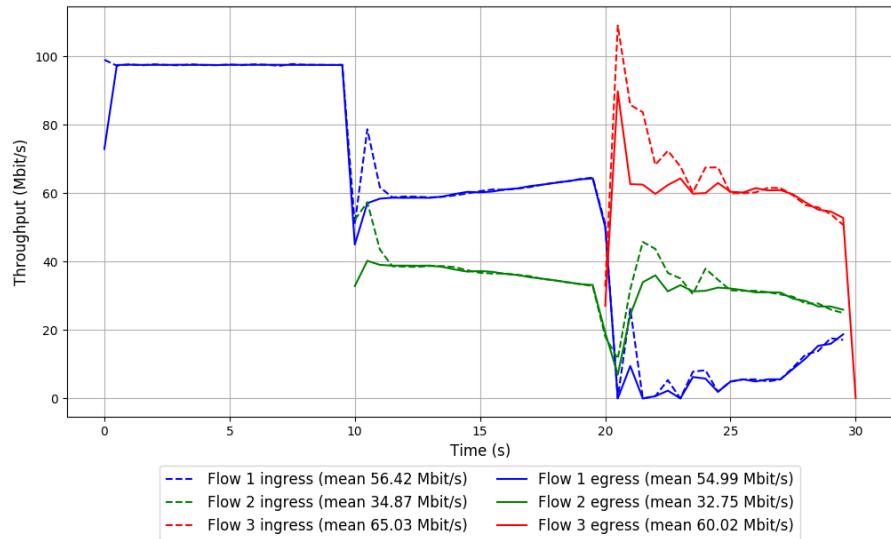


Run 7: Statistics of TCP BBR

```
Start at: 2017-12-20 09:56:57
End at: 2017-12-20 09:57:27
Local clock offset: 2.571 ms
Remote clock offset: -13.854 ms

# Below is generated by plot.py at 2017-12-20 11:35:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.67 Mbit/s
95th percentile per-packet one-way delay: 28.679 ms
Loss rate: 4.39%
-- Flow 1:
Average throughput: 54.99 Mbit/s
95th percentile per-packet one-way delay: 24.541 ms
Loss rate: 2.44%
-- Flow 2:
Average throughput: 32.75 Mbit/s
95th percentile per-packet one-way delay: 30.112 ms
Loss rate: 6.05%
-- Flow 3:
Average throughput: 60.02 Mbit/s
95th percentile per-packet one-way delay: 32.642 ms
Loss rate: 7.70%
```

Run 7: Report of TCP BBR — Data Link

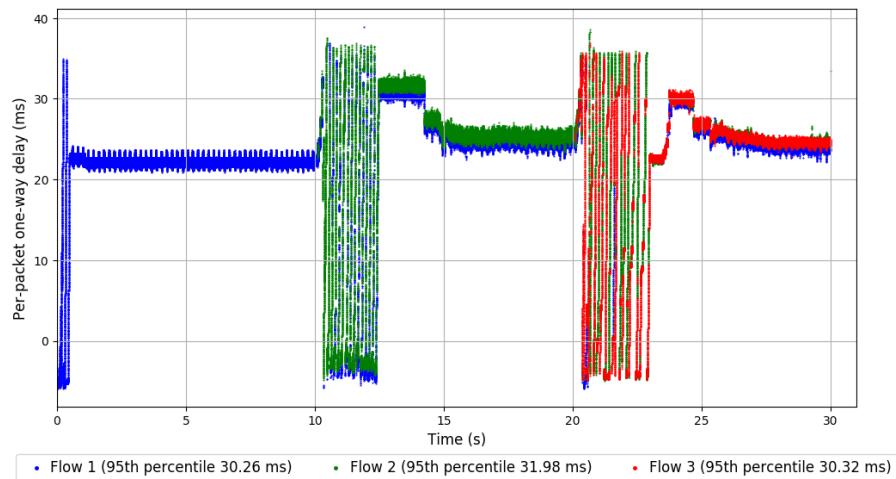
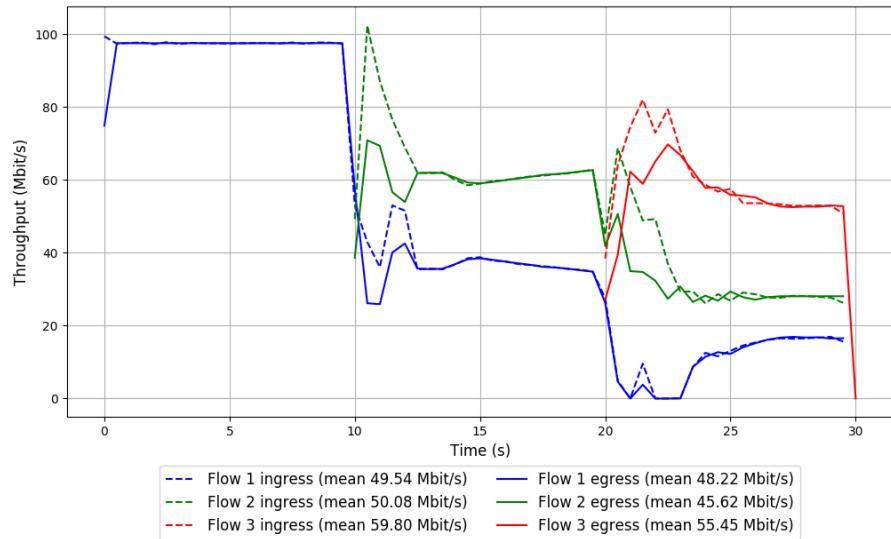


Run 8: Statistics of TCP BBR

```
Start at: 2017-12-20 10:15:53
End at: 2017-12-20 10:16:23
Local clock offset: 0.517 ms
Remote clock offset: -14.153 ms

# Below is generated by plot.py at 2017-12-20 11:35:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.92 Mbit/s
95th percentile per-packet one-way delay: 31.294 ms
Loss rate: 5.51%
-- Flow 1:
Average throughput: 48.22 Mbit/s
95th percentile per-packet one-way delay: 30.263 ms
Loss rate: 2.57%
-- Flow 2:
Average throughput: 45.62 Mbit/s
95th percentile per-packet one-way delay: 31.981 ms
Loss rate: 8.88%
-- Flow 3:
Average throughput: 55.45 Mbit/s
95th percentile per-packet one-way delay: 30.324 ms
Loss rate: 7.21%
```

Run 8: Report of TCP BBR — Data Link

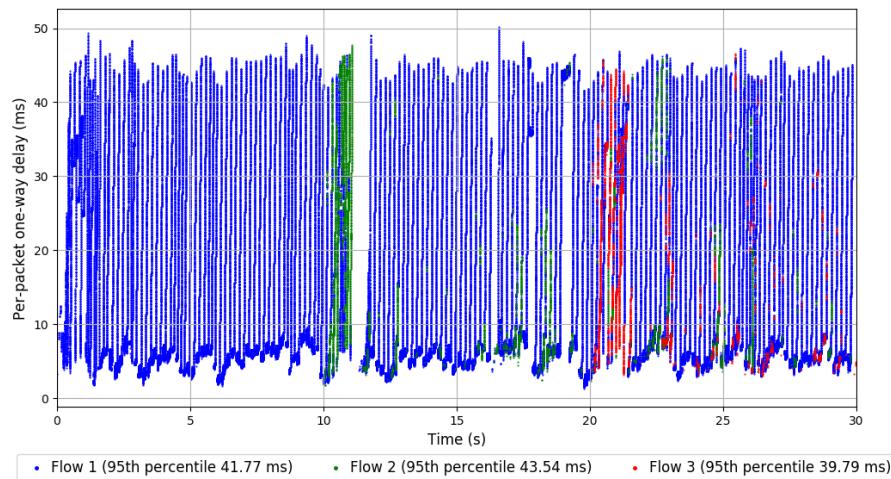
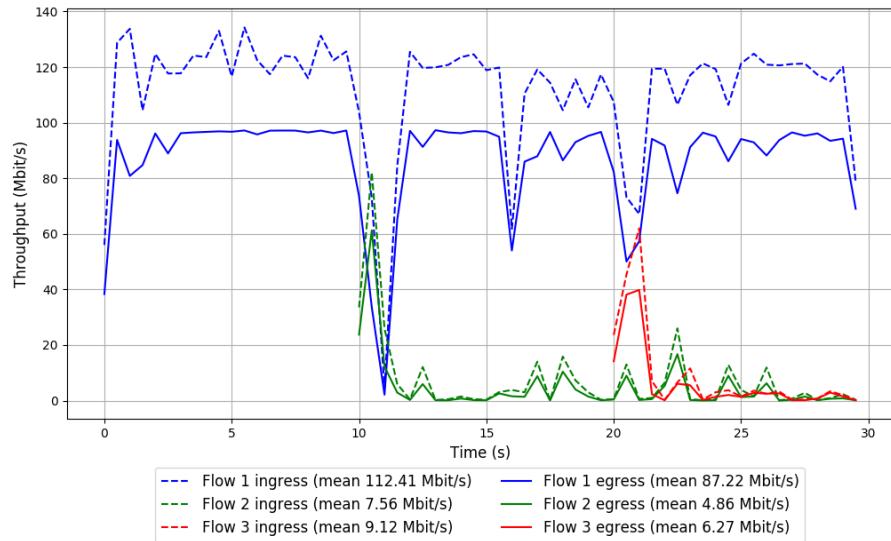


Run 9: Statistics of TCP BBR

```
Start at: 2017-12-20 10:34:31
End at: 2017-12-20 10:35:01
Local clock offset: 2.241 ms
Remote clock offset: -28.73 ms

# Below is generated by plot.py at 2017-12-20 11:37:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.20 Mbit/s
95th percentile per-packet one-way delay: 41.819 ms
Loss rate: 23.11%
-- Flow 1:
Average throughput: 87.22 Mbit/s
95th percentile per-packet one-way delay: 41.772 ms
Loss rate: 22.32%
-- Flow 2:
Average throughput: 4.86 Mbit/s
95th percentile per-packet one-way delay: 43.542 ms
Loss rate: 35.91%
-- Flow 3:
Average throughput: 6.27 Mbit/s
95th percentile per-packet one-way delay: 39.793 ms
Loss rate: 31.28%
```

Run 9: Report of TCP BBR — Data Link

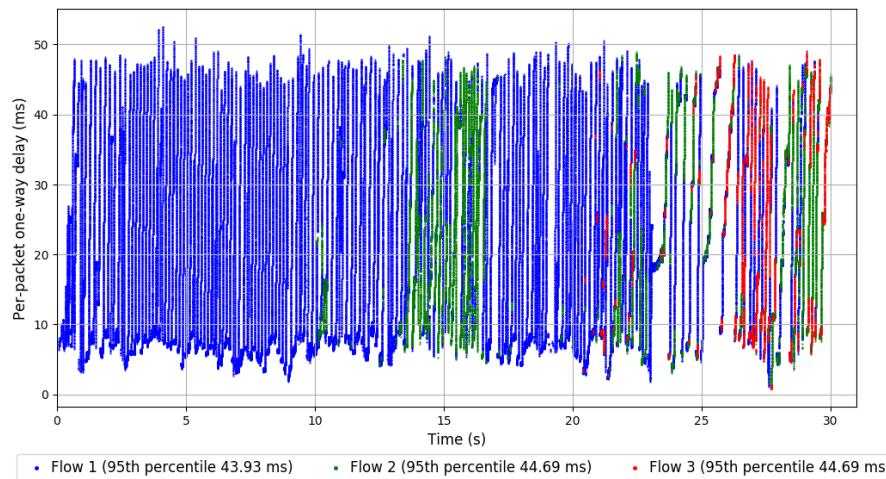
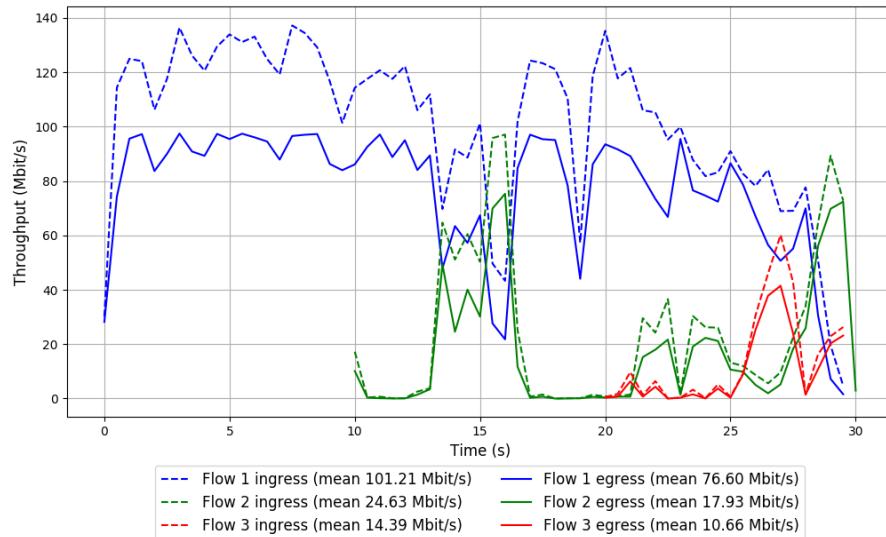


Run 10: Statistics of TCP BBR

```
Start at: 2017-12-20 10:53:33
End at: 2017-12-20 10:54:03
Local clock offset: 2.879 ms
Remote clock offset: -27.616 ms

# Below is generated by plot.py at 2017-12-20 11:37:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.02 Mbit/s
95th percentile per-packet one-way delay: 44.140 ms
Loss rate: 24.67%
-- Flow 1:
Average throughput: 76.60 Mbit/s
95th percentile per-packet one-way delay: 43.934 ms
Loss rate: 24.22%
-- Flow 2:
Average throughput: 17.93 Mbit/s
95th percentile per-packet one-way delay: 44.691 ms
Loss rate: 27.08%
-- Flow 3:
Average throughput: 10.66 Mbit/s
95th percentile per-packet one-way delay: 44.688 ms
Loss rate: 25.82%
```

Run 10: Report of TCP BBR — Data Link

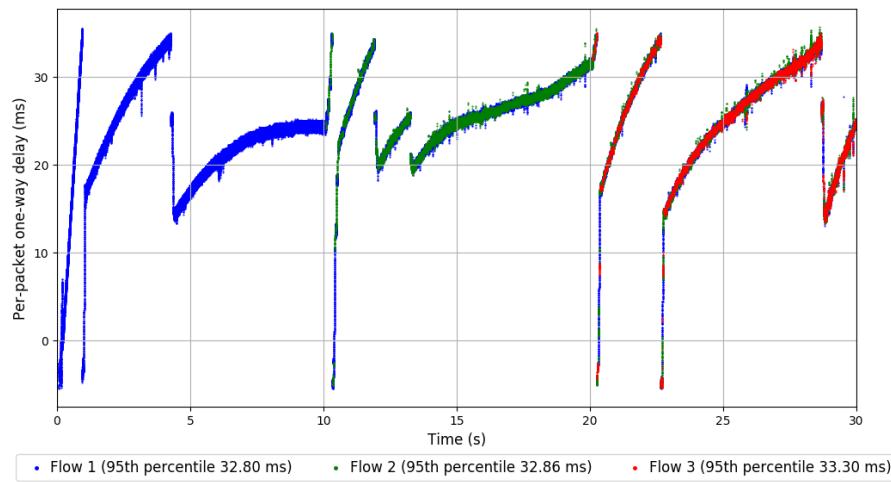
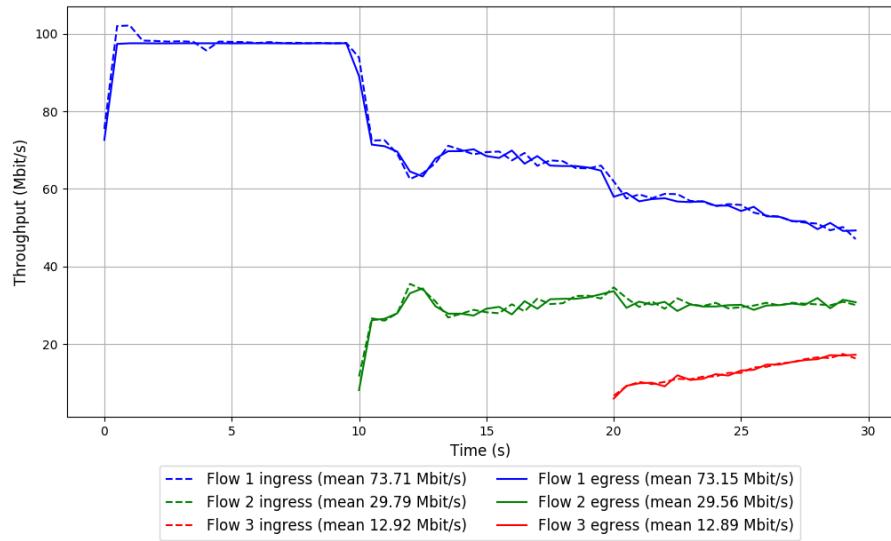


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2017-12-20 08:07:58
End at: 2017-12-20 08:08:28
Local clock offset: 3.429 ms
Remote clock offset: -11.342 ms

# Below is generated by plot.py at 2017-12-20 11:37:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.10 Mbit/s
95th percentile per-packet one-way delay: 32.843 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 73.15 Mbit/s
95th percentile per-packet one-way delay: 32.802 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 29.56 Mbit/s
95th percentile per-packet one-way delay: 32.864 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 12.89 Mbit/s
95th percentile per-packet one-way delay: 33.302 ms
Loss rate: 0.30%
```

Run 1: Report of TCP Cubic — Data Link

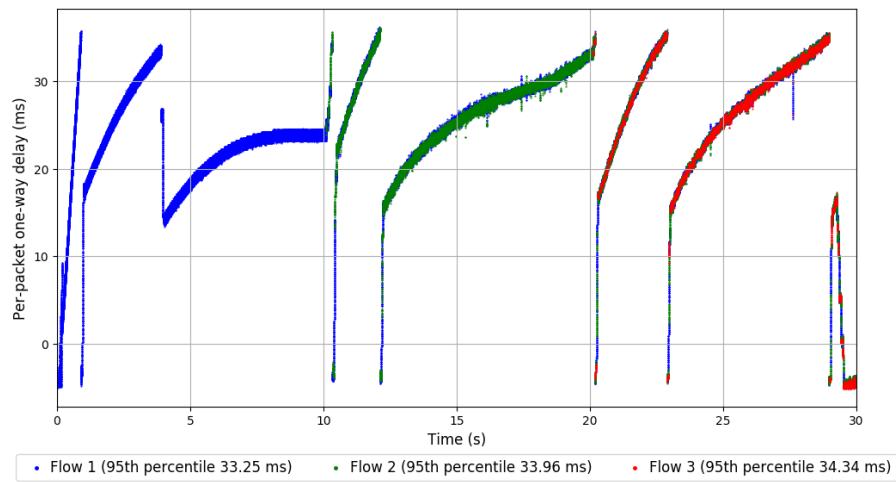
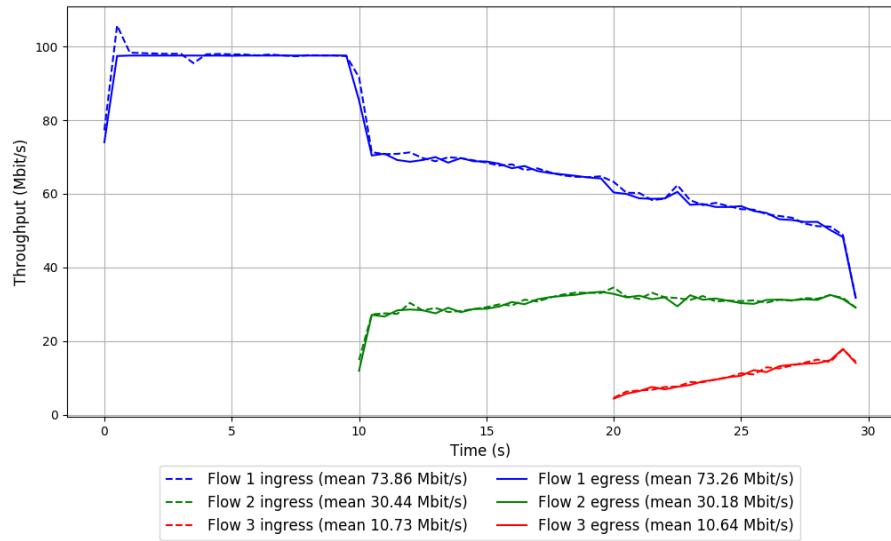


Run 2: Statistics of TCP Cubic

```
Start at: 2017-12-20 08:26:28
End at: 2017-12-20 08:26:58
Local clock offset: 2.225 ms
Remote clock offset: -12.167 ms

# Below is generated by plot.py at 2017-12-20 11:37:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.85 Mbit/s
95th percentile per-packet one-way delay: 33.492 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 73.26 Mbit/s
95th percentile per-packet one-way delay: 33.248 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 30.18 Mbit/s
95th percentile per-packet one-way delay: 33.960 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 10.64 Mbit/s
95th percentile per-packet one-way delay: 34.340 ms
Loss rate: 1.21%
```

Run 2: Report of TCP Cubic — Data Link

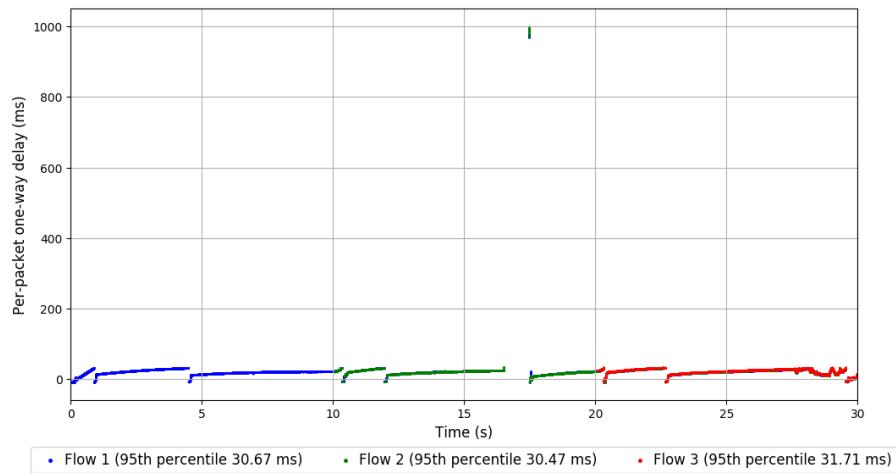
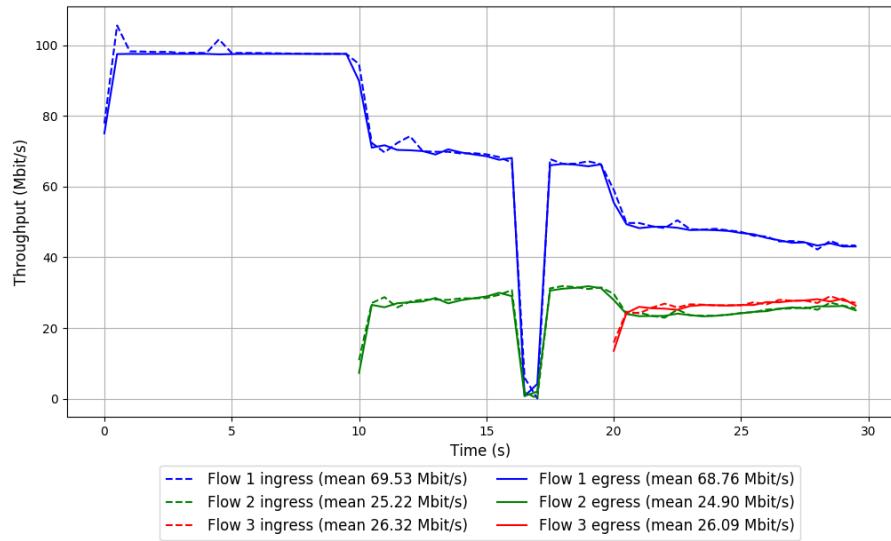


Run 3: Statistics of TCP Cubic

```
Start at: 2017-12-20 08:44:28
End at: 2017-12-20 08:44:58
Local clock offset: 4.568 ms
Remote clock offset: -12.009 ms

# Below is generated by plot.py at 2017-12-20 11:37:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.97 Mbit/s
95th percentile per-packet one-way delay: 30.767 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 68.76 Mbit/s
95th percentile per-packet one-way delay: 30.668 ms
Loss rate: 1.04%
-- Flow 2:
Average throughput: 24.90 Mbit/s
95th percentile per-packet one-way delay: 30.471 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 26.09 Mbit/s
95th percentile per-packet one-way delay: 31.707 ms
Loss rate: 1.00%
```

Run 3: Report of TCP Cubic — Data Link

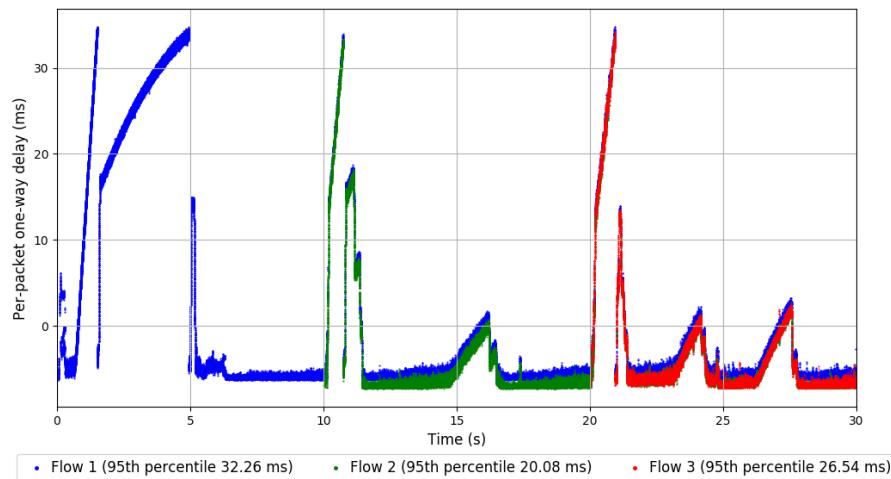
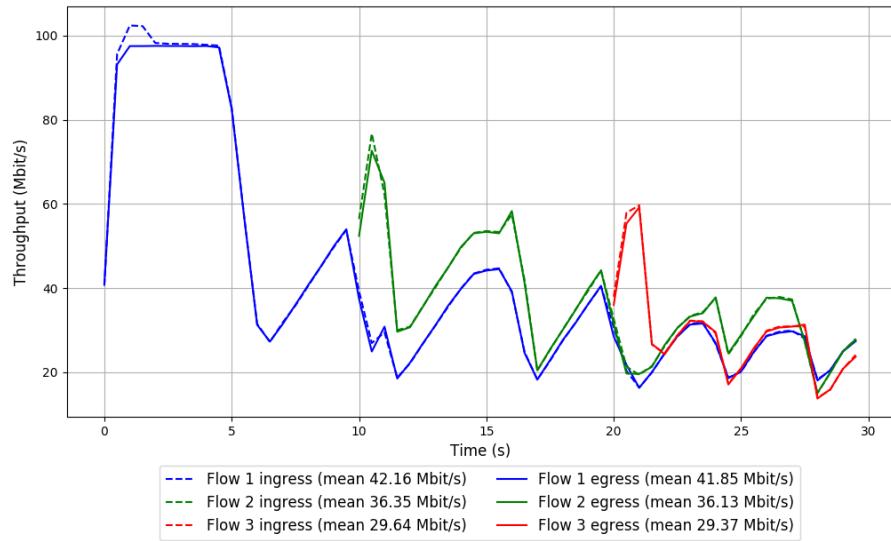


Run 4: Statistics of TCP Cubic

```
Start at: 2017-12-20 09:02:57
End at: 2017-12-20 09:03:27
Local clock offset: 3.595 ms
Remote clock offset: -12.043 ms

# Below is generated by plot.py at 2017-12-20 11:37:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.65 Mbit/s
95th percentile per-packet one-way delay: 30.847 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 41.85 Mbit/s
95th percentile per-packet one-way delay: 32.259 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 36.13 Mbit/s
95th percentile per-packet one-way delay: 20.077 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 29.37 Mbit/s
95th percentile per-packet one-way delay: 26.536 ms
Loss rate: 0.92%
```

Run 4: Report of TCP Cubic — Data Link

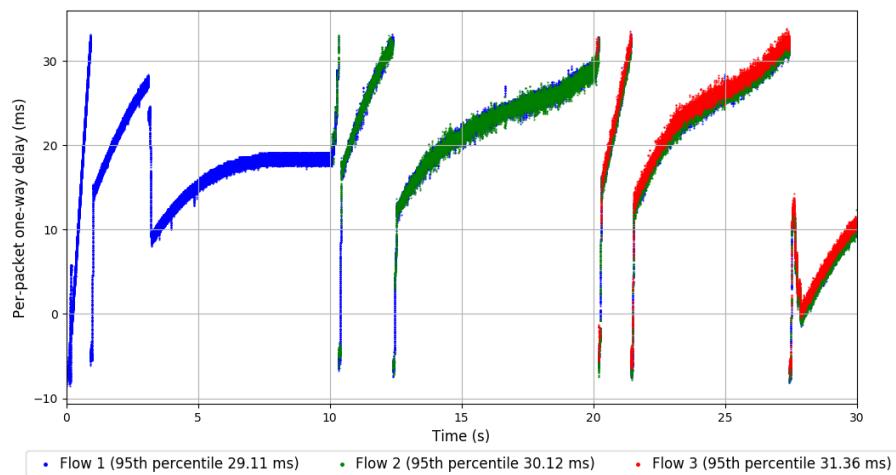
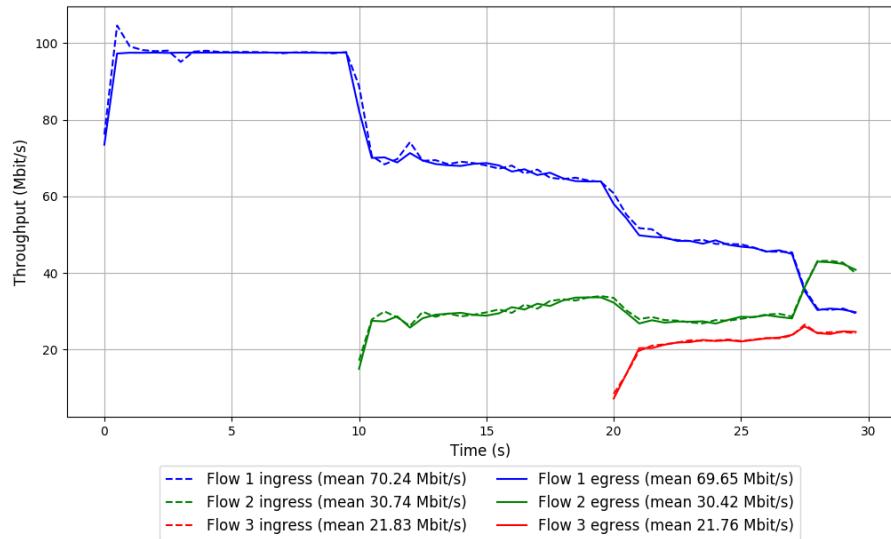


Run 5: Statistics of TCP Cubic

```
Start at: 2017-12-20 09:22:19
End at: 2017-12-20 09:22:49
Local clock offset: 3.97 ms
Remote clock offset: -14.728 ms

# Below is generated by plot.py at 2017-12-20 11:37:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.08 Mbit/s
95th percentile per-packet one-way delay: 29.638 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 69.65 Mbit/s
95th percentile per-packet one-way delay: 29.105 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 30.42 Mbit/s
95th percentile per-packet one-way delay: 30.123 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 21.76 Mbit/s
95th percentile per-packet one-way delay: 31.360 ms
Loss rate: 0.51%
```

Run 5: Report of TCP Cubic — Data Link

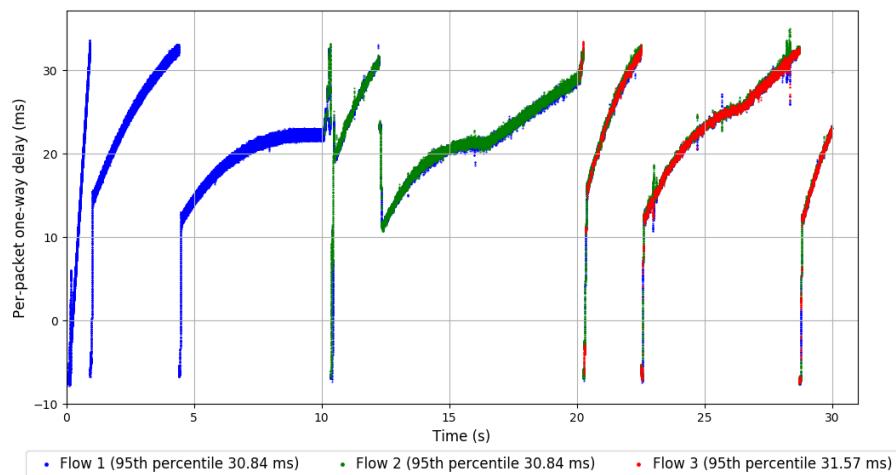
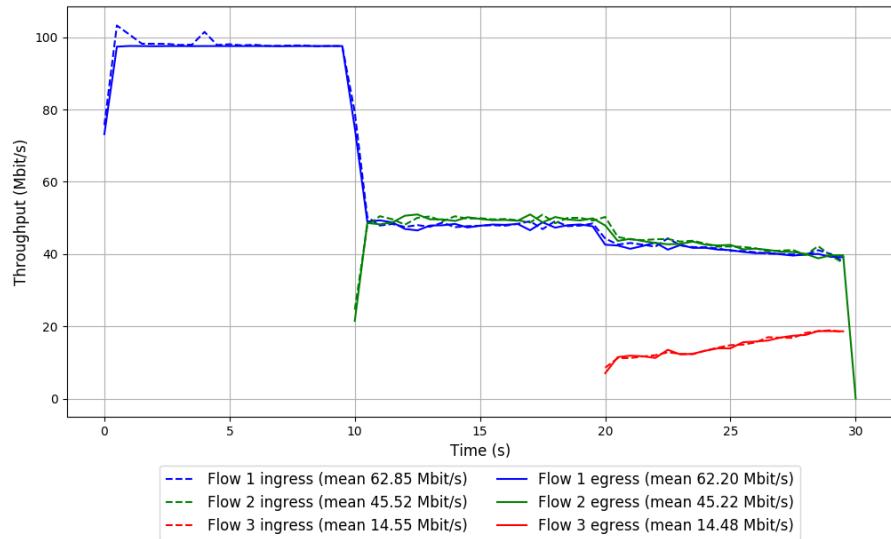


Run 6: Statistics of TCP Cubic

```
Start at: 2017-12-20 09:40:47
End at: 2017-12-20 09:41:17
Local clock offset: 3.569 ms
Remote clock offset: -14.44 ms

# Below is generated by plot.py at 2017-12-20 11:37:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.07 Mbit/s
95th percentile per-packet one-way delay: 30.863 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 62.20 Mbit/s
95th percentile per-packet one-way delay: 30.844 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 45.22 Mbit/s
95th percentile per-packet one-way delay: 30.835 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 14.48 Mbit/s
95th percentile per-packet one-way delay: 31.569 ms
Loss rate: 0.56%
```

Run 6: Report of TCP Cubic — Data Link

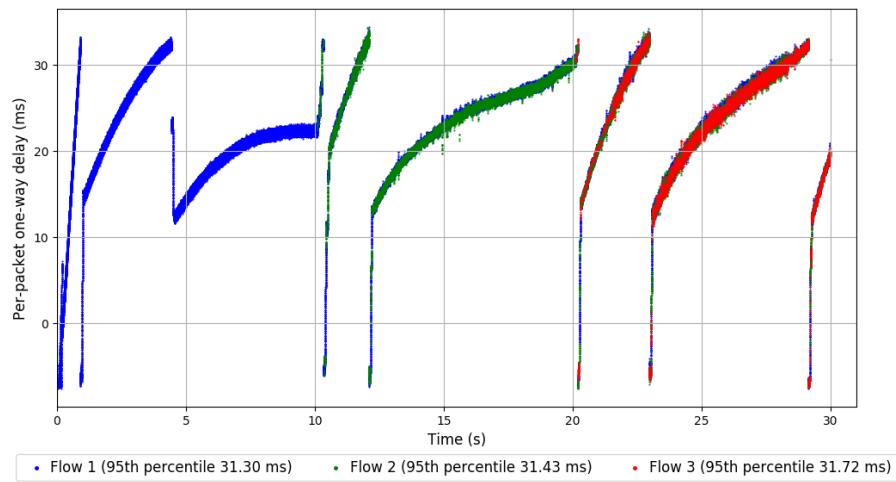
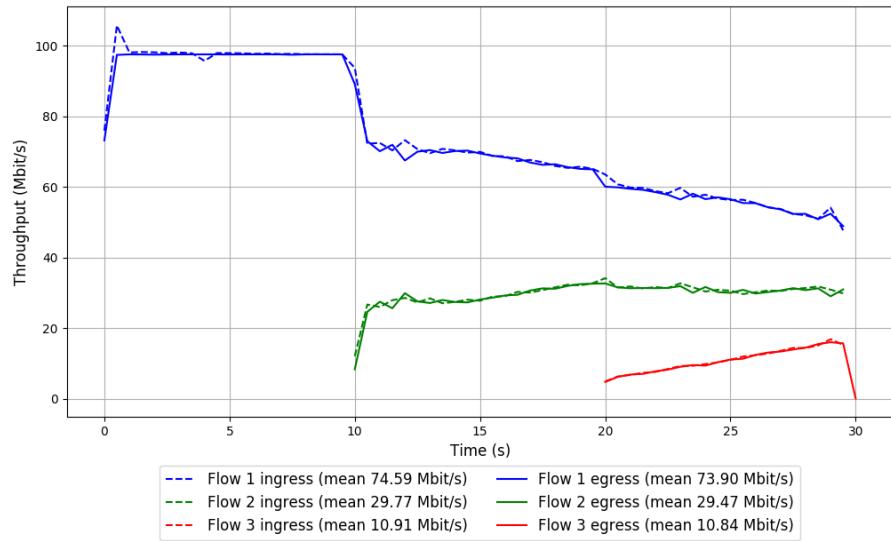


Run 7: Statistics of TCP Cubic

```
Start at: 2017-12-20 09:59:35
End at: 2017-12-20 10:00:05
Local clock offset: 4.383 ms
Remote clock offset: -12.867 ms

# Below is generated by plot.py at 2017-12-20 11:38:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.07 Mbit/s
95th percentile per-packet one-way delay: 31.397 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 73.90 Mbit/s
95th percentile per-packet one-way delay: 31.296 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 29.47 Mbit/s
95th percentile per-packet one-way delay: 31.426 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 10.84 Mbit/s
95th percentile per-packet one-way delay: 31.723 ms
Loss rate: 0.71%
```

Run 7: Report of TCP Cubic — Data Link

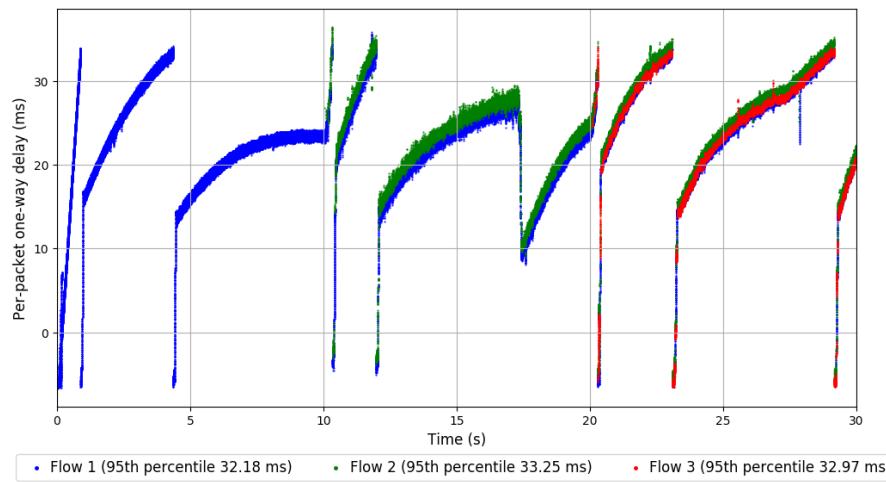
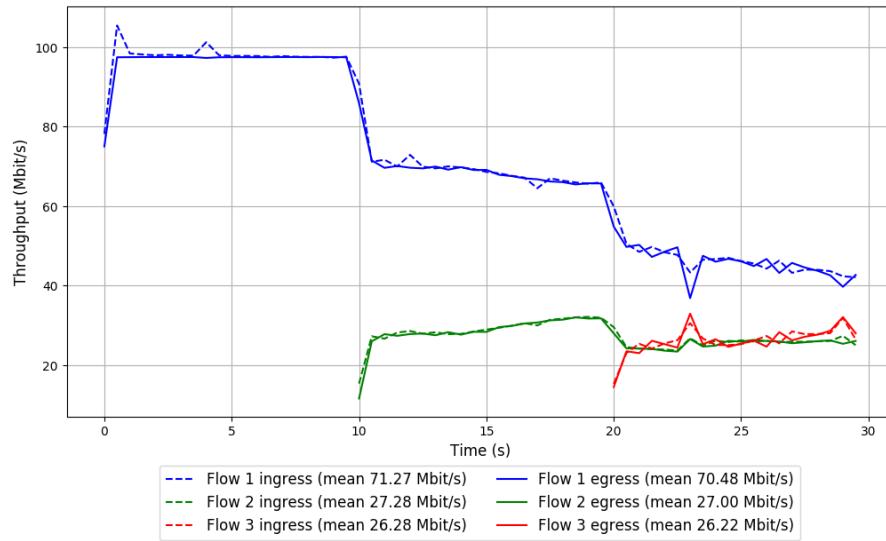


Run 8: Statistics of TCP Cubic

```
Start at: 2017-12-20 10:18:21
End at: 2017-12-20 10:18:51
Local clock offset: 1.315 ms
Remote clock offset: -14.238 ms

# Below is generated by plot.py at 2017-12-20 11:38:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.12 Mbit/s
95th percentile per-packet one-way delay: 32.483 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 70.48 Mbit/s
95th percentile per-packet one-way delay: 32.179 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 27.00 Mbit/s
95th percentile per-packet one-way delay: 33.253 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 26.22 Mbit/s
95th percentile per-packet one-way delay: 32.965 ms
Loss rate: 0.26%
```

Run 8: Report of TCP Cubic — Data Link

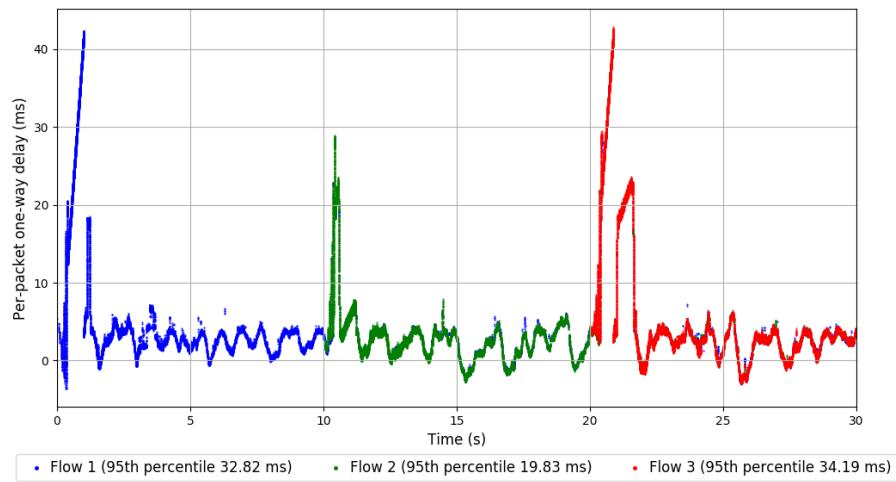
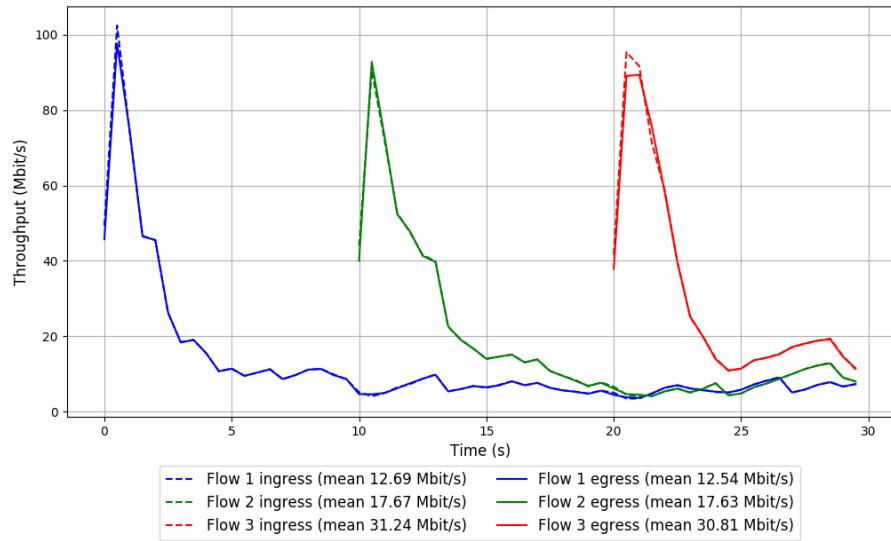


Run 9: Statistics of TCP Cubic

```
Start at: 2017-12-20 10:37:12
End at: 2017-12-20 10:37:42
Local clock offset: 2.55 ms
Remote clock offset: -30.315 ms

# Below is generated by plot.py at 2017-12-20 11:38:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 34.52 Mbit/s
95th percentile per-packet one-way delay: 29.499 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 12.54 Mbit/s
95th percentile per-packet one-way delay: 32.816 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 17.63 Mbit/s
95th percentile per-packet one-way delay: 19.830 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 30.81 Mbit/s
95th percentile per-packet one-way delay: 34.190 ms
Loss rate: 1.40%
```

Run 9: Report of TCP Cubic — Data Link

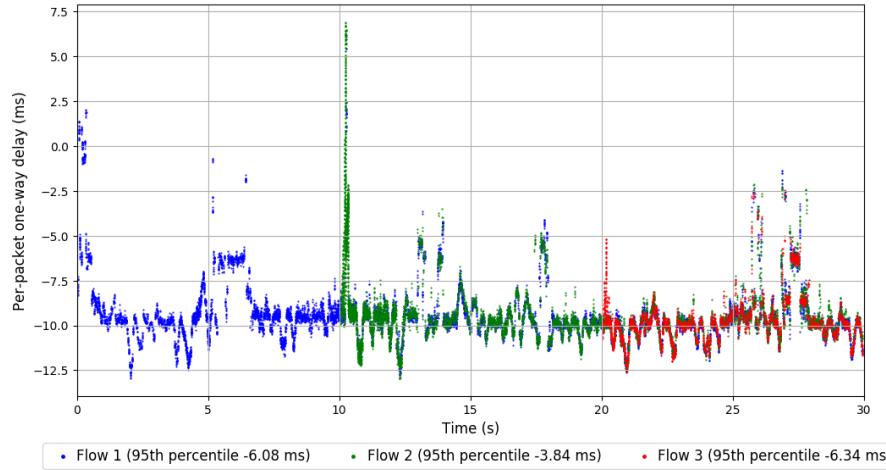
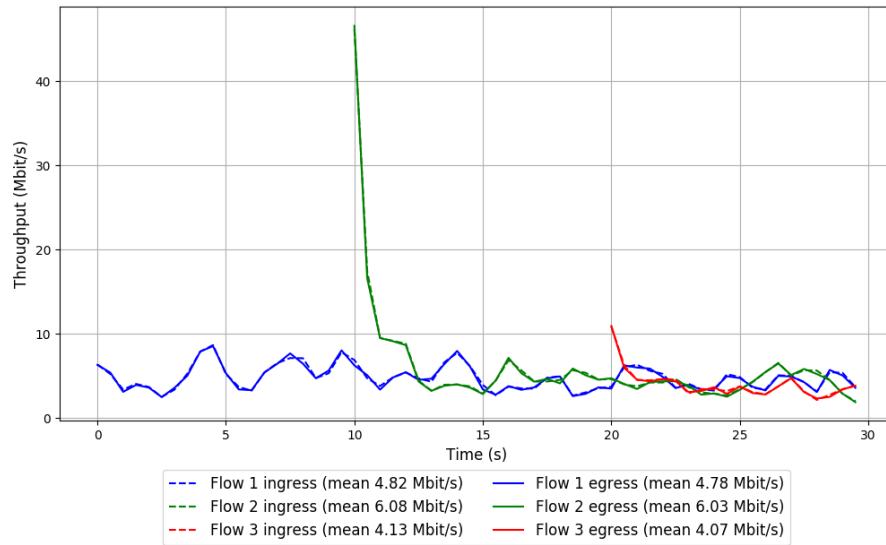


```
Run 10: Statistics of TCP Cubic
```

```
Start at: 2017-12-20 10:55:58
End at: 2017-12-20 10:56:28
Local clock offset: -0.396 ms
Remote clock offset: -28.171 ms

# Below is generated by plot.py at 2017-12-20 11:38:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.15 Mbit/s
95th percentile per-packet one-way delay: -5.069 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 4.78 Mbit/s
95th percentile per-packet one-way delay: -6.077 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 6.03 Mbit/s
95th percentile per-packet one-way delay: -3.843 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 4.07 Mbit/s
95th percentile per-packet one-way delay: -6.343 ms
Loss rate: 1.29%
```

Run 10: Report of TCP Cubic — Data Link

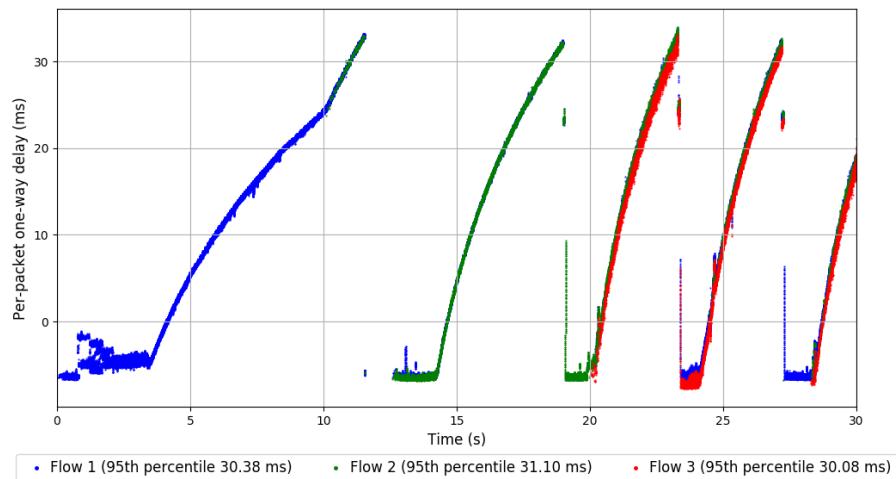
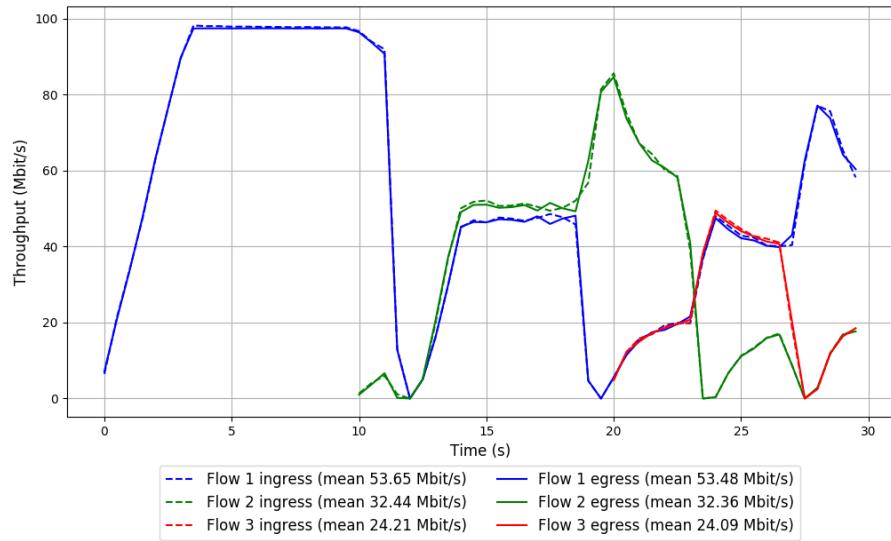


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2017-12-20 08:13:10
End at: 2017-12-20 08:13:40
Local clock offset: 4.492 ms
Remote clock offset: -11.594 ms

# Below is generated by plot.py at 2017-12-20 11:38:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.01 Mbit/s
95th percentile per-packet one-way delay: 30.605 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 53.48 Mbit/s
95th percentile per-packet one-way delay: 30.376 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 32.36 Mbit/s
95th percentile per-packet one-way delay: 31.096 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 24.09 Mbit/s
95th percentile per-packet one-way delay: 30.081 ms
Loss rate: 0.28%
```

Run 1: Report of LEDBAT — Data Link

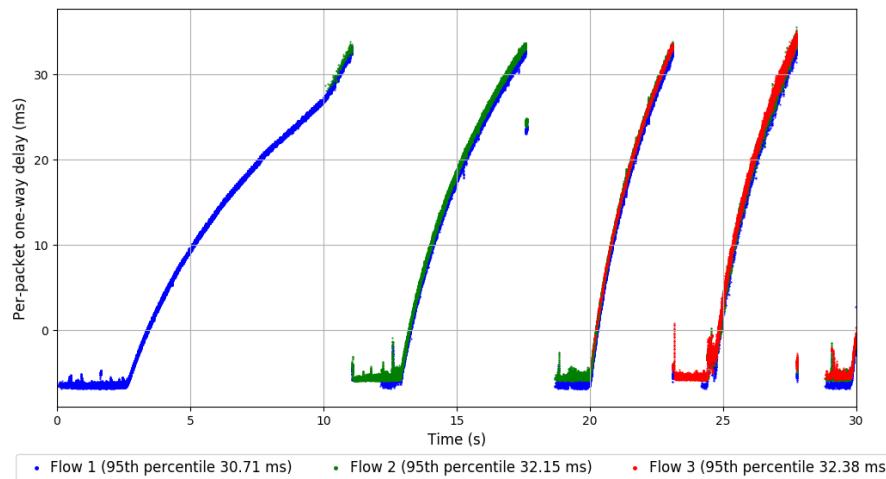
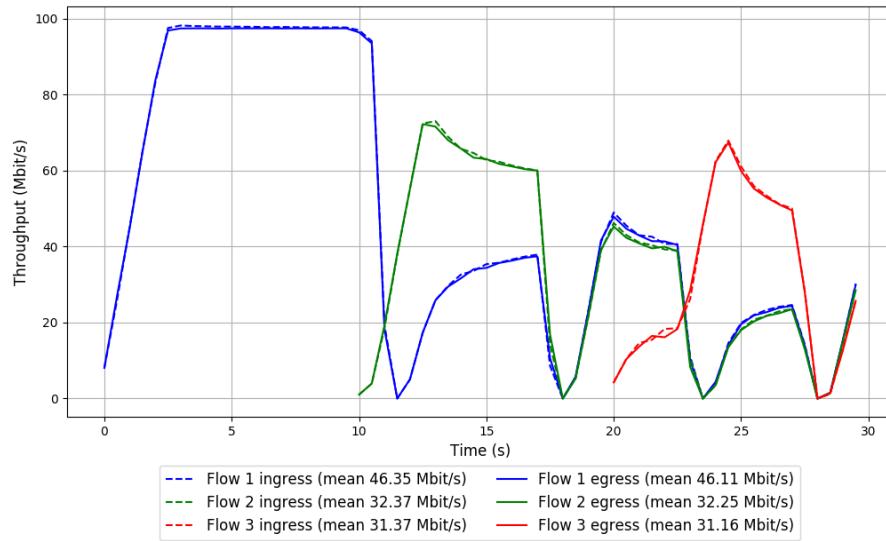


Run 2: Statistics of LEDBAT

```
Start at: 2017-12-20 08:31:16
End at: 2017-12-20 08:31:46
Local clock offset: 2.297 ms
Remote clock offset: -12.898 ms

# Below is generated by plot.py at 2017-12-20 11:38:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.87 Mbit/s
95th percentile per-packet one-way delay: 31.424 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 46.11 Mbit/s
95th percentile per-packet one-way delay: 30.710 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 32.25 Mbit/s
95th percentile per-packet one-way delay: 32.149 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 31.16 Mbit/s
95th percentile per-packet one-way delay: 32.375 ms
Loss rate: 0.62%
```

Run 2: Report of LEDBAT — Data Link

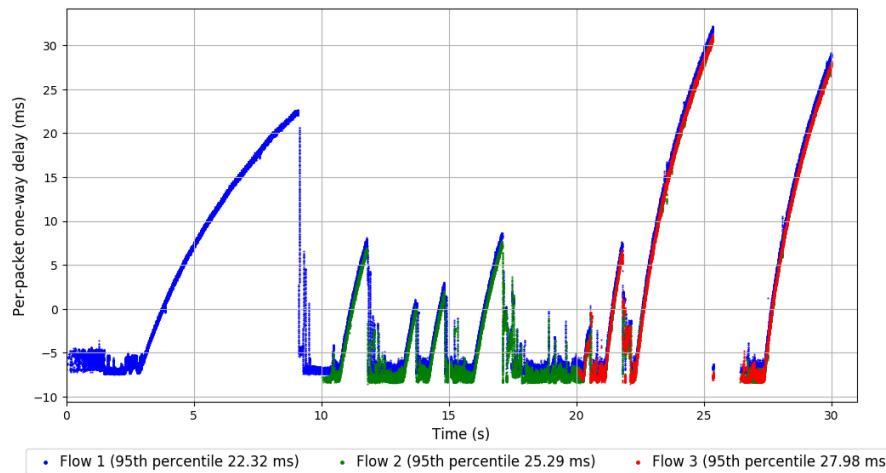
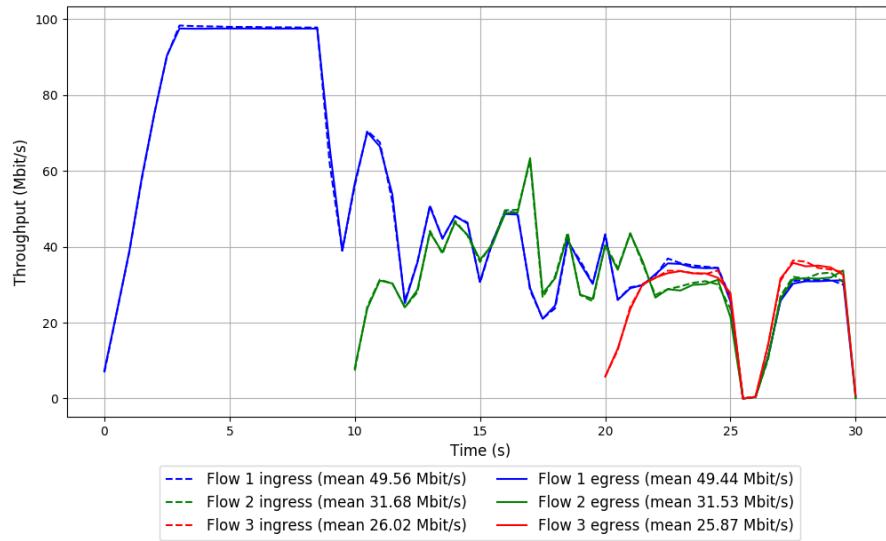


Run 3: Statistics of LEDBAT

```
Start at: 2017-12-20 08:49:16
End at: 2017-12-20 08:49:46
Local clock offset: 4.107 ms
Remote clock offset: -12.48 ms

# Below is generated by plot.py at 2017-12-20 11:38:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.05 Mbit/s
95th percentile per-packet one-way delay: 24.778 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 49.44 Mbit/s
95th percentile per-packet one-way delay: 22.318 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 31.53 Mbit/s
95th percentile per-packet one-way delay: 25.287 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 25.87 Mbit/s
95th percentile per-packet one-way delay: 27.975 ms
Loss rate: 0.21%
```

Run 3: Report of LEDBAT — Data Link

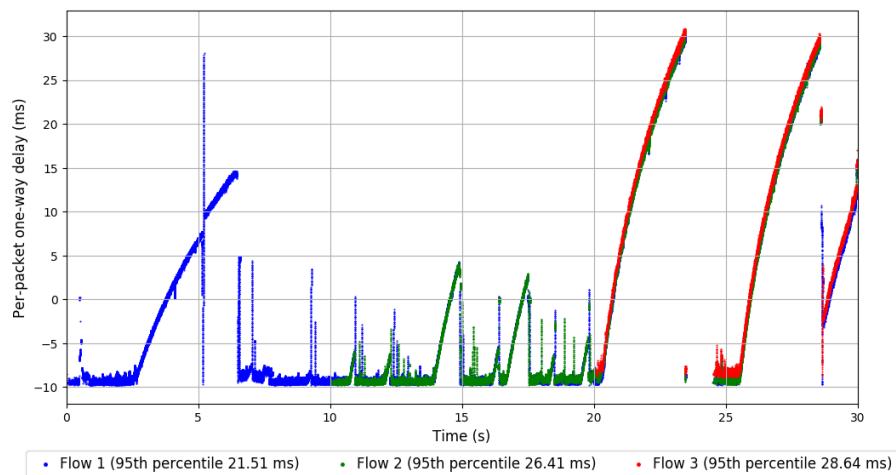
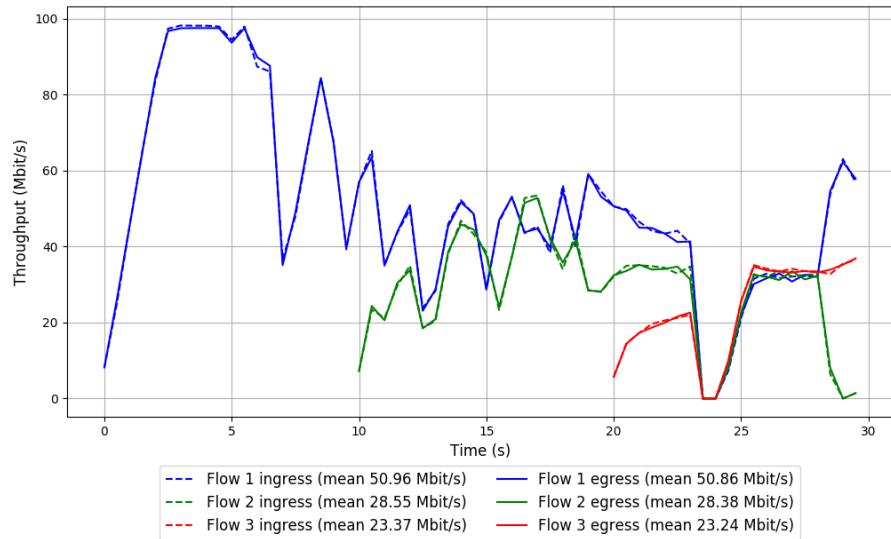


Run 4: Statistics of LEDBAT

```
Start at: 2017-12-20 09:08:15
End at: 2017-12-20 09:08:45
Local clock offset: 3.767 ms
Remote clock offset: -14.867 ms

# Below is generated by plot.py at 2017-12-20 11:38:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.46 Mbit/s
95th percentile per-packet one-way delay: 25.270 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 50.86 Mbit/s
95th percentile per-packet one-way delay: 21.513 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 28.38 Mbit/s
95th percentile per-packet one-way delay: 26.409 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 23.24 Mbit/s
95th percentile per-packet one-way delay: 28.644 ms
Loss rate: 0.31%
```

Run 4: Report of LEDBAT — Data Link

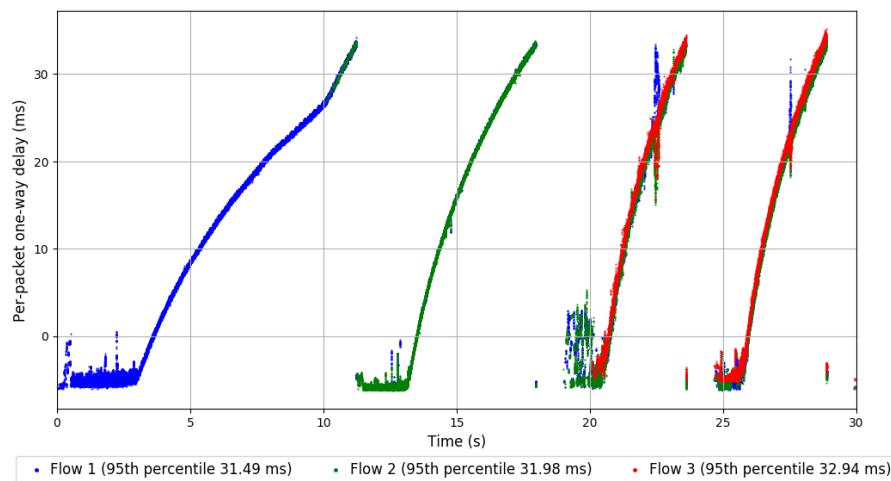
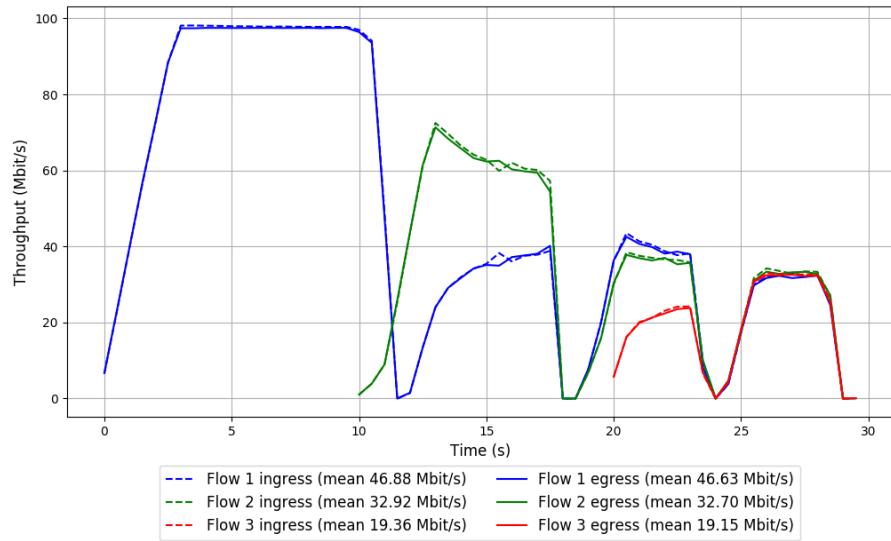


Run 5: Statistics of LEDBAT

```
Start at: 2017-12-20 09:27:12
End at: 2017-12-20 09:27:42
Local clock offset: 1.113 ms
Remote clock offset: -14.785 ms

# Below is generated by plot.py at 2017-12-20 11:38:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.69 Mbit/s
95th percentile per-packet one-way delay: 31.865 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 46.63 Mbit/s
95th percentile per-packet one-way delay: 31.493 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 32.70 Mbit/s
95th percentile per-packet one-way delay: 31.980 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 19.15 Mbit/s
95th percentile per-packet one-way delay: 32.937 ms
Loss rate: 1.12%
```

Run 5: Report of LEDBAT — Data Link

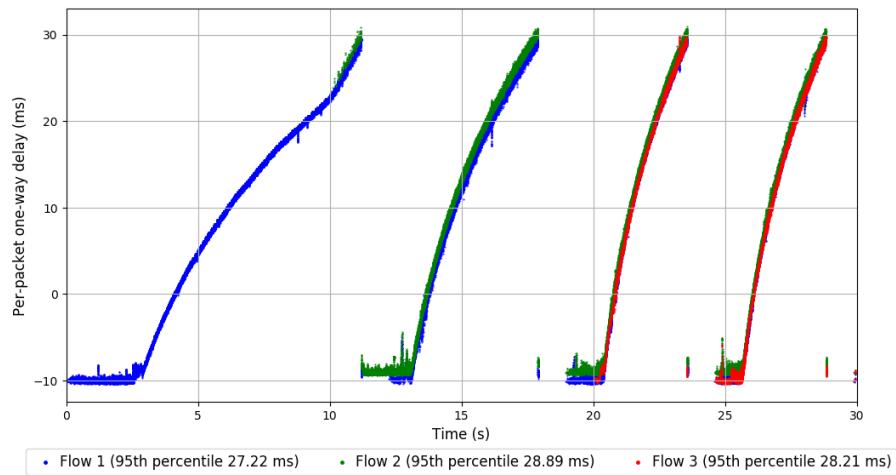
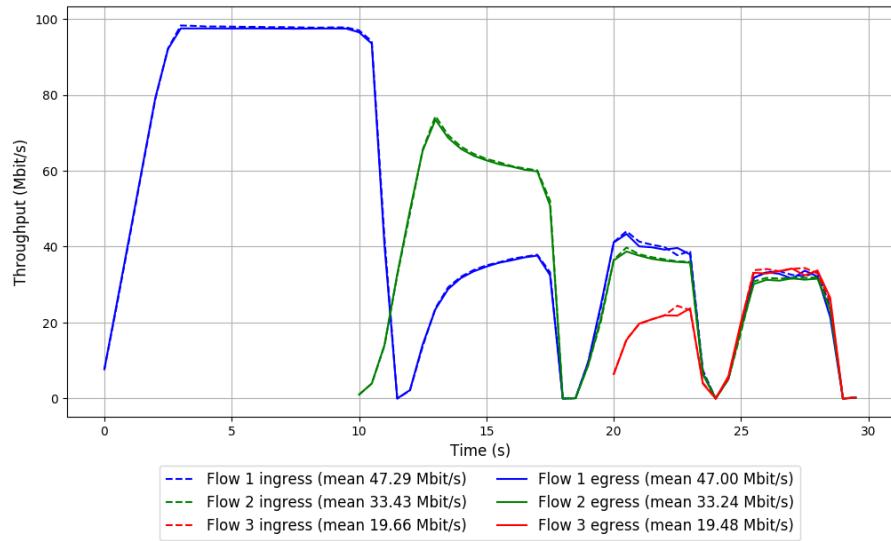


Run 6: Statistics of LEDBAT

```
Start at: 2017-12-20 09:45:53
End at: 2017-12-20 09:46:23
Local clock offset: 3.889 ms
Remote clock offset: -15.595 ms

# Below is generated by plot.py at 2017-12-20 11:38:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.54 Mbit/s
95th percentile per-packet one-way delay: 27.938 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 47.00 Mbit/s
95th percentile per-packet one-way delay: 27.216 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 33.24 Mbit/s
95th percentile per-packet one-way delay: 28.894 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 19.48 Mbit/s
95th percentile per-packet one-way delay: 28.209 ms
Loss rate: 0.87%
```

Run 6: Report of LEDBAT — Data Link

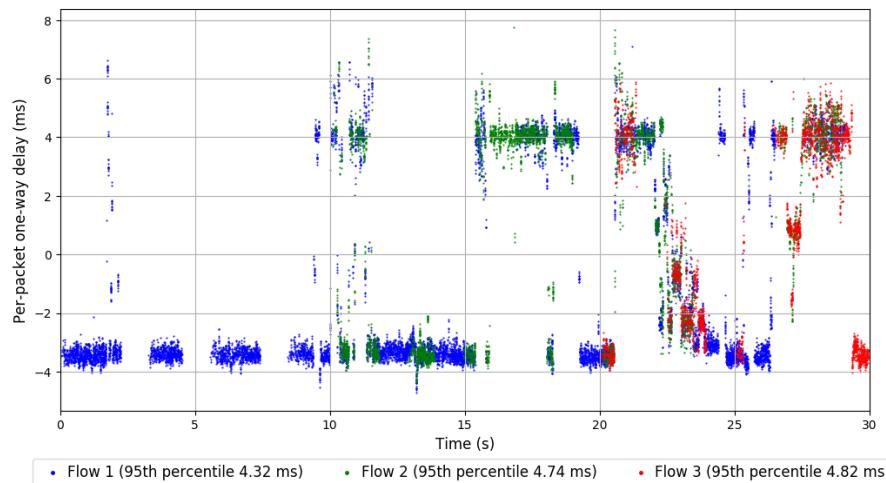
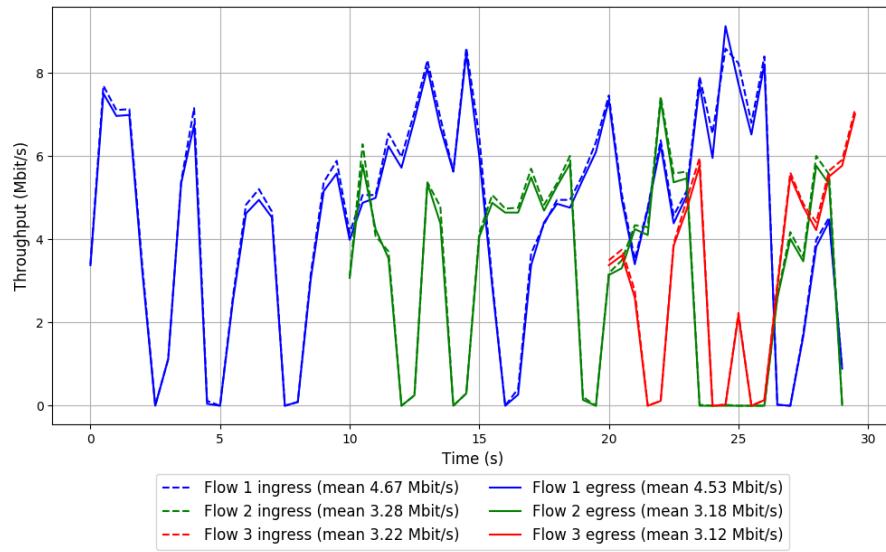


Run 7: Statistics of LEDBAT

```
Start at: 2017-12-20 10:04:30
End at: 2017-12-20 10:05:00
Local clock offset: 2.765 ms
Remote clock offset: -14.043 ms

# Below is generated by plot.py at 2017-12-20 11:38:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.46 Mbit/s
95th percentile per-packet one-way delay: 4.503 ms
Loss rate: 3.03%
-- Flow 1:
Average throughput: 4.53 Mbit/s
95th percentile per-packet one-way delay: 4.324 ms
Loss rate: 3.02%
-- Flow 2:
Average throughput: 3.18 Mbit/s
95th percentile per-packet one-way delay: 4.736 ms
Loss rate: 3.16%
-- Flow 3:
Average throughput: 3.12 Mbit/s
95th percentile per-packet one-way delay: 4.815 ms
Loss rate: 2.81%
```

Run 7: Report of LEDBAT — Data Link

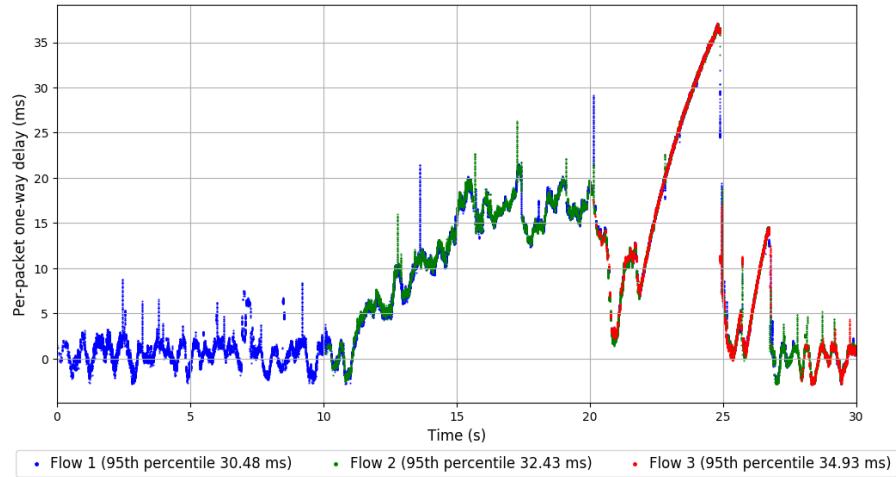
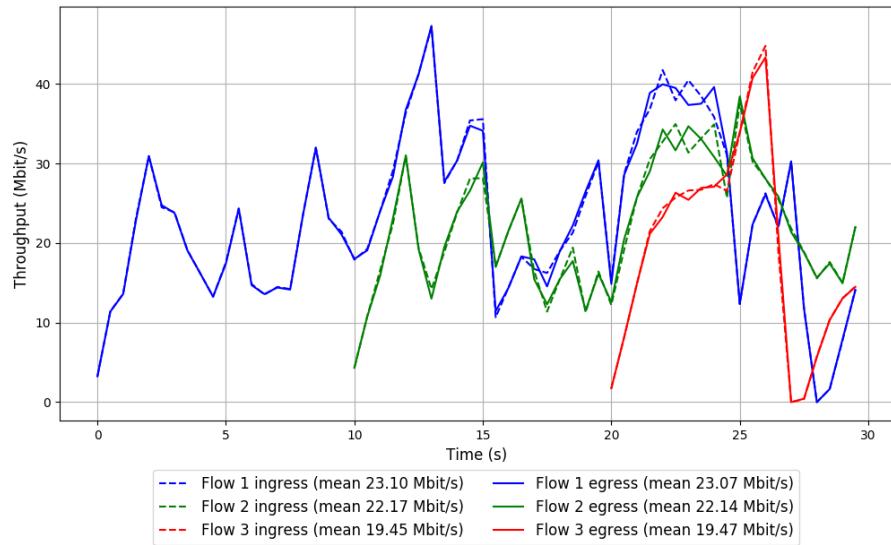


Run 8: Statistics of LEDBAT

```
Start at: 2017-12-20 10:23:02
End at: 2017-12-20 10:23:32
Local clock offset: 3.559 ms
Remote clock offset: -14.281 ms

# Below is generated by plot.py at 2017-12-20 11:39:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 44.25 Mbit/s
95th percentile per-packet one-way delay: 32.593 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 23.07 Mbit/s
95th percentile per-packet one-way delay: 30.484 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 22.14 Mbit/s
95th percentile per-packet one-way delay: 32.430 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 19.47 Mbit/s
95th percentile per-packet one-way delay: 34.931 ms
Loss rate: 0.07%
```

Run 8: Report of LEDBAT — Data Link

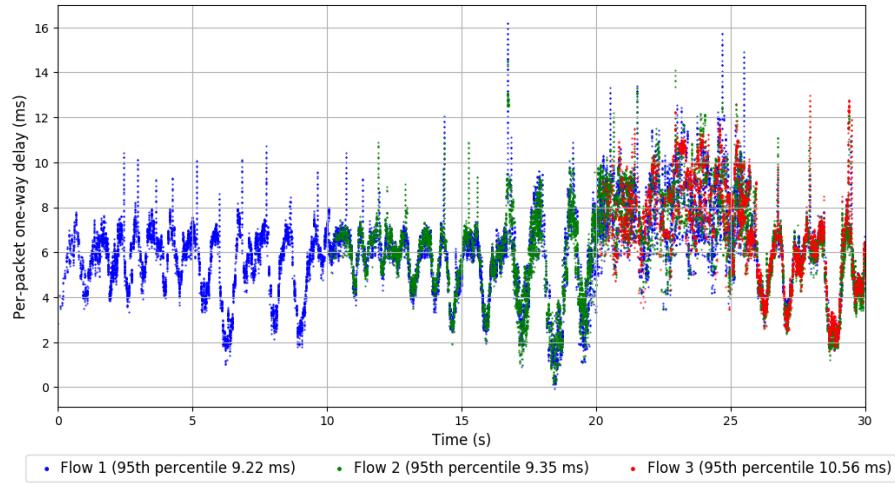
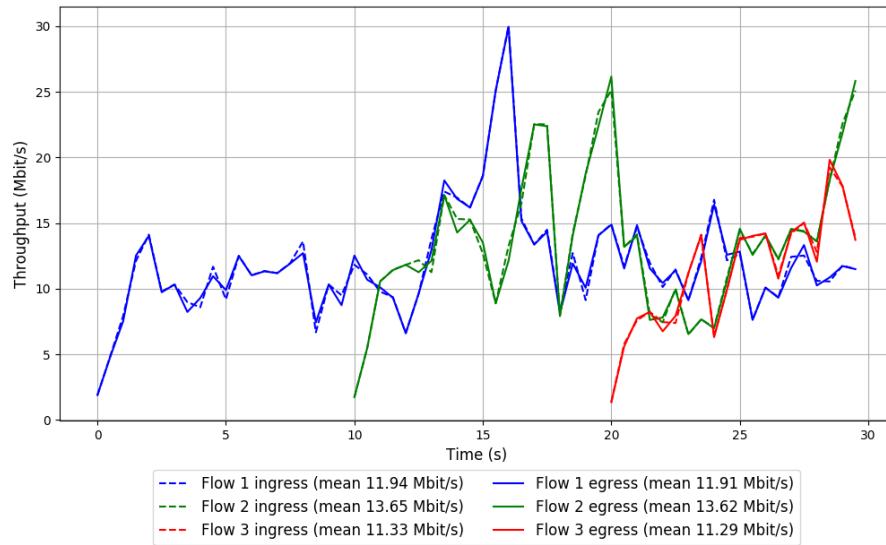


Run 9: Statistics of LEDBAT

```
Start at: 2017-12-20 10:42:08
End at: 2017-12-20 10:42:38
Local clock offset: 1.92 ms
Remote clock offset: -28.35 ms

# Below is generated by plot.py at 2017-12-20 11:39:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.73 Mbit/s
95th percentile per-packet one-way delay: 9.592 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 11.91 Mbit/s
95th percentile per-packet one-way delay: 9.218 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 13.62 Mbit/s
95th percentile per-packet one-way delay: 9.353 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 11.29 Mbit/s
95th percentile per-packet one-way delay: 10.559 ms
Loss rate: 0.35%
```

Run 9: Report of LEDBAT — Data Link

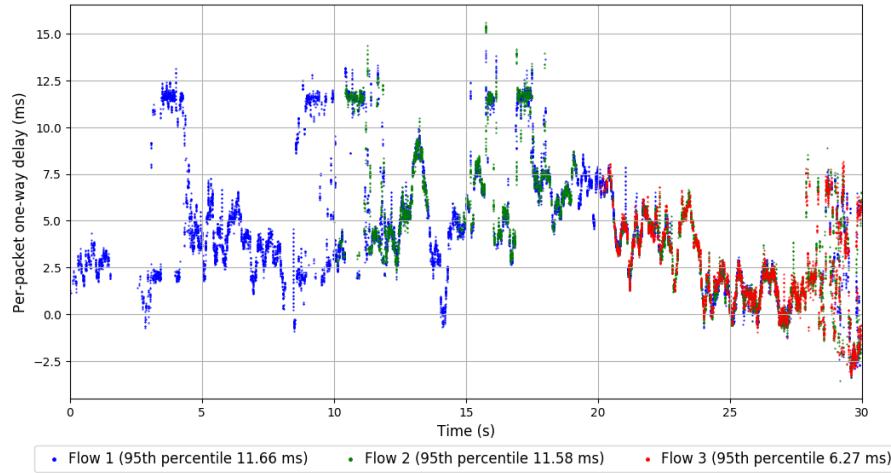
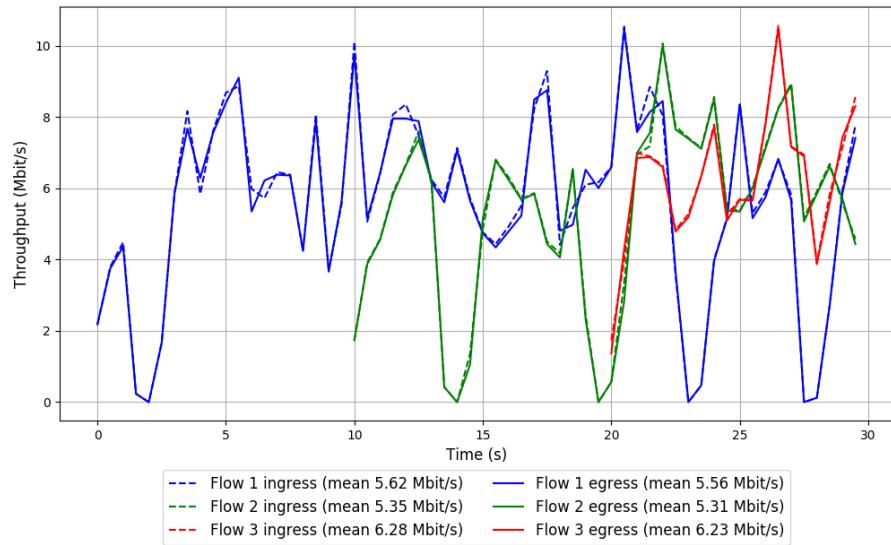


```
Run 10: Statistics of LEDBAT
```

```
Start at: 2017-12-20 11:00:36
End at: 2017-12-20 11:01:06
Local clock offset: 2.059 ms
Remote clock offset: -26.288 ms

# Below is generated by plot.py at 2017-12-20 11:39:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.17 Mbit/s
95th percentile per-packet one-way delay: 11.589 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 5.56 Mbit/s
95th percentile per-packet one-way delay: 11.660 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 5.31 Mbit/s
95th percentile per-packet one-way delay: 11.579 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 6.23 Mbit/s
95th percentile per-packet one-way delay: 6.273 ms
Loss rate: 0.88%
```

Run 10: Report of LEDBAT — Data Link

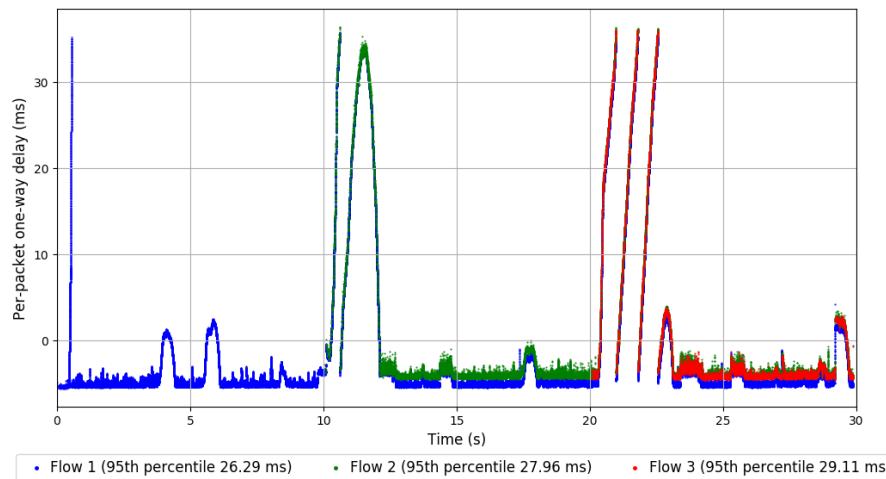
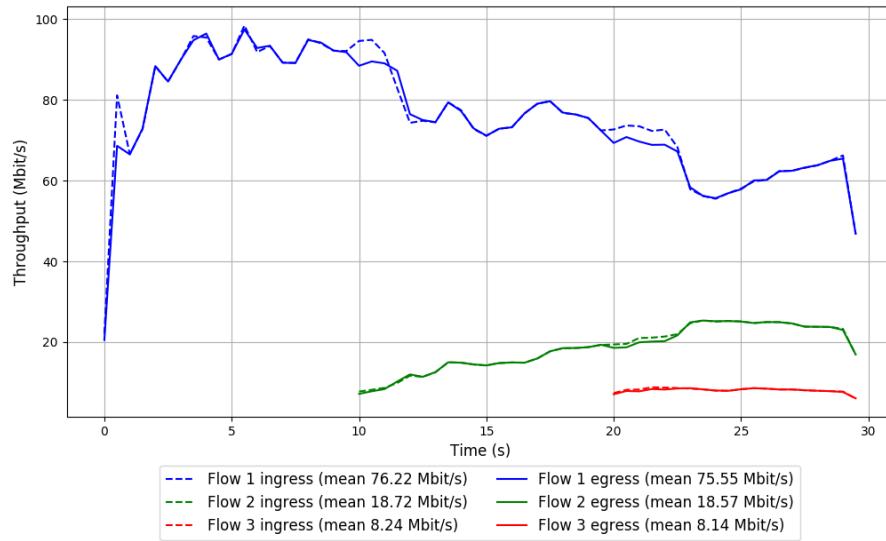


Run 1: Statistics of PCC

```
Start at: 2017-12-20 08:21:47
End at: 2017-12-20 08:22:17
Local clock offset: -0.022 ms
Remote clock offset: -13.828 ms

# Below is generated by plot.py at 2017-12-20 11:39:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.57 Mbit/s
95th percentile per-packet one-way delay: 26.729 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 75.55 Mbit/s
95th percentile per-packet one-way delay: 26.287 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 18.57 Mbit/s
95th percentile per-packet one-way delay: 27.957 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 8.14 Mbit/s
95th percentile per-packet one-way delay: 29.115 ms
Loss rate: 1.24%
```

Run 1: Report of PCC — Data Link

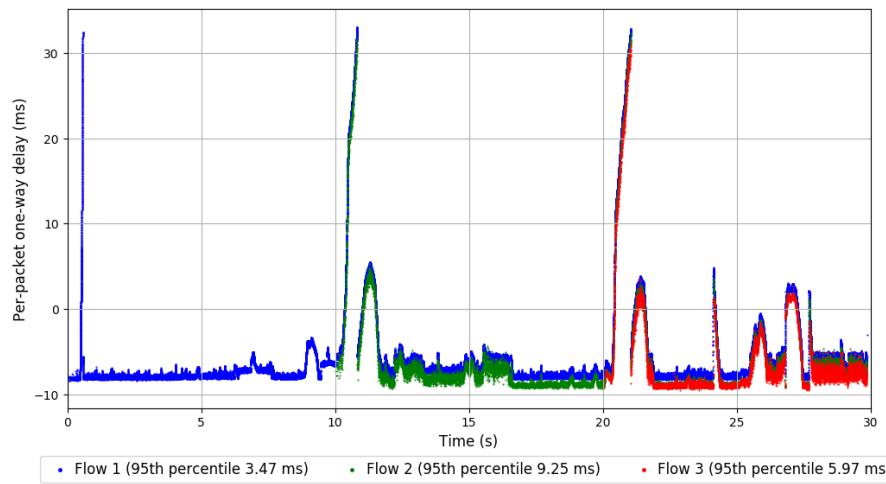
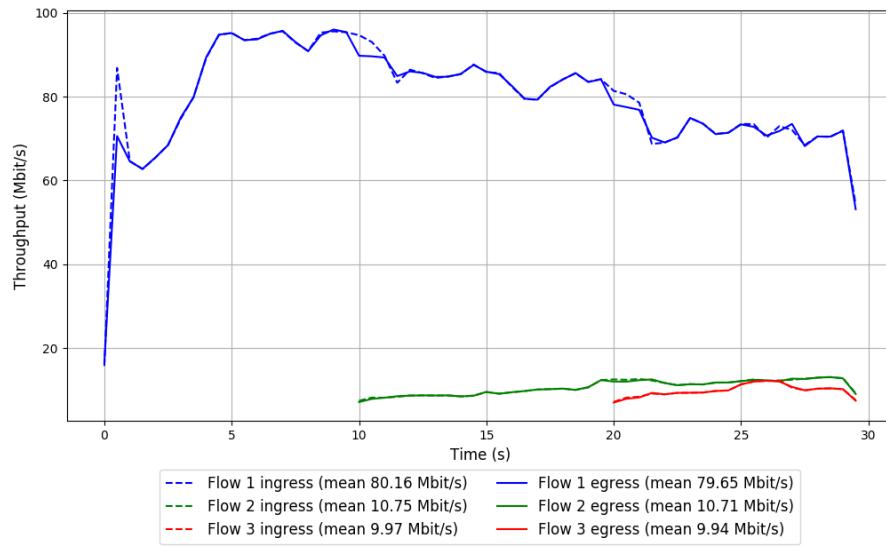


Run 2: Statistics of PCC

```
Start at: 2017-12-20 08:39:48
End at: 2017-12-20 08:40:18
Local clock offset: 4.723 ms
Remote clock offset: -12.893 ms

# Below is generated by plot.py at 2017-12-20 11:40:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.05 Mbit/s
95th percentile per-packet one-way delay: 3.581 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 79.65 Mbit/s
95th percentile per-packet one-way delay: 3.471 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 10.71 Mbit/s
95th percentile per-packet one-way delay: 9.253 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 9.94 Mbit/s
95th percentile per-packet one-way delay: 5.968 ms
Loss rate: 0.32%
```

Run 2: Report of PCC — Data Link

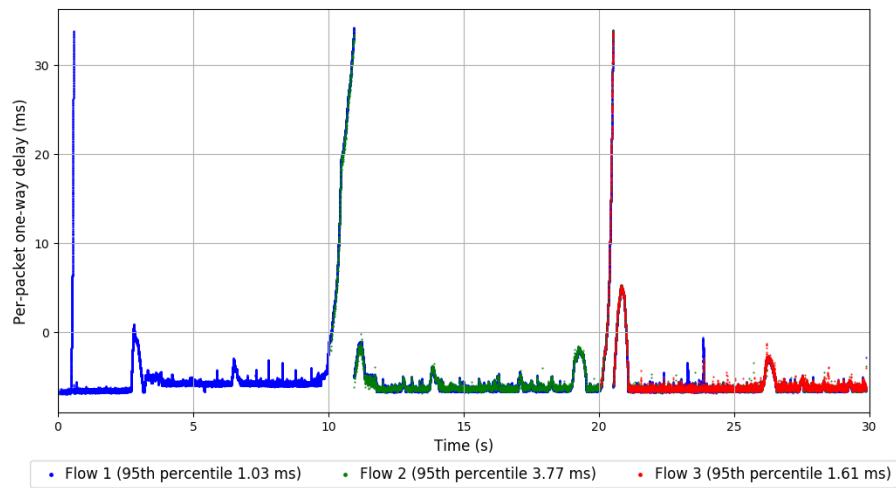
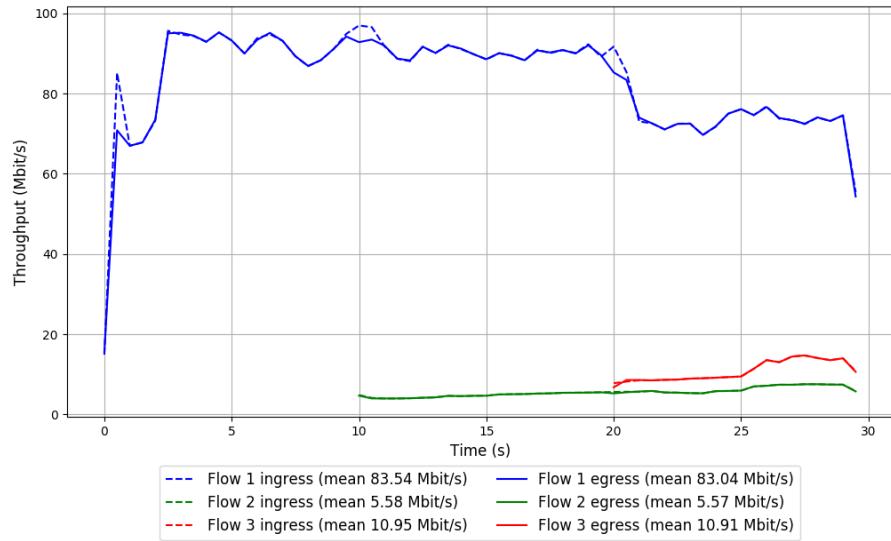


Run 3: Statistics of PCC

```
Start at: 2017-12-20 08:58:01
End at: 2017-12-20 08:58:31
Local clock offset: 4.377 ms
Remote clock offset: -11.309 ms

# Below is generated by plot.py at 2017-12-20 11:40:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.34 Mbit/s
95th percentile per-packet one-way delay: 1.235 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 83.04 Mbit/s
95th percentile per-packet one-way delay: 1.031 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 5.57 Mbit/s
95th percentile per-packet one-way delay: 3.770 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 10.91 Mbit/s
95th percentile per-packet one-way delay: 1.610 ms
Loss rate: 0.30%
```

Run 3: Report of PCC — Data Link

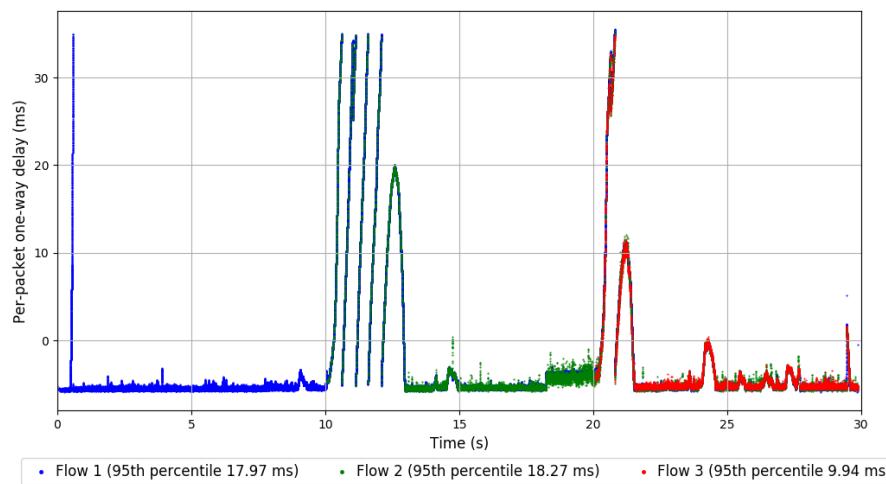
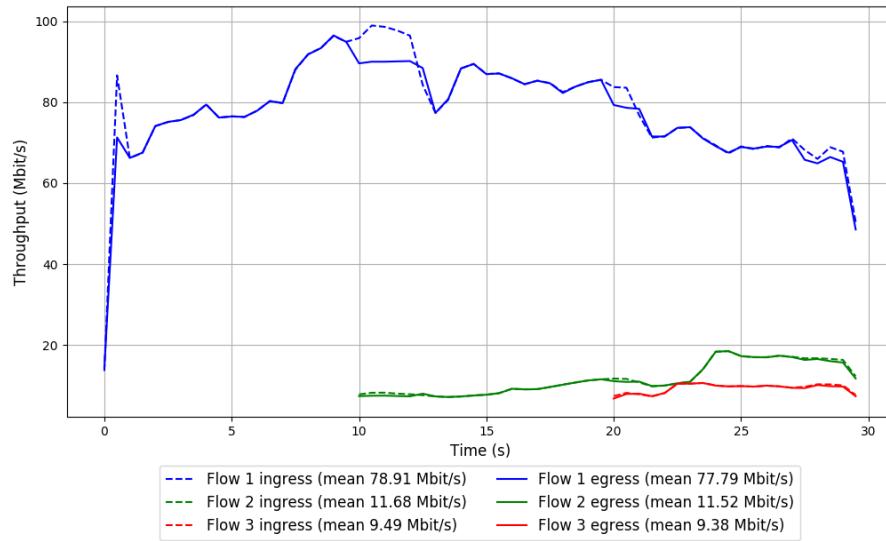


Run 4: Statistics of PCC

```
Start at: 2017-12-20 09:17:18
End at: 2017-12-20 09:17:48
Local clock offset: 2.35 ms
Remote clock offset: -12.923 ms

# Below is generated by plot.py at 2017-12-20 11:40:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.54 Mbit/s
95th percentile per-packet one-way delay: 17.887 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 77.79 Mbit/s
95th percentile per-packet one-way delay: 17.973 ms
Loss rate: 1.41%
-- Flow 2:
Average throughput: 11.52 Mbit/s
95th percentile per-packet one-way delay: 18.274 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 9.38 Mbit/s
95th percentile per-packet one-way delay: 9.943 ms
Loss rate: 1.22%
```

Run 4: Report of PCC — Data Link

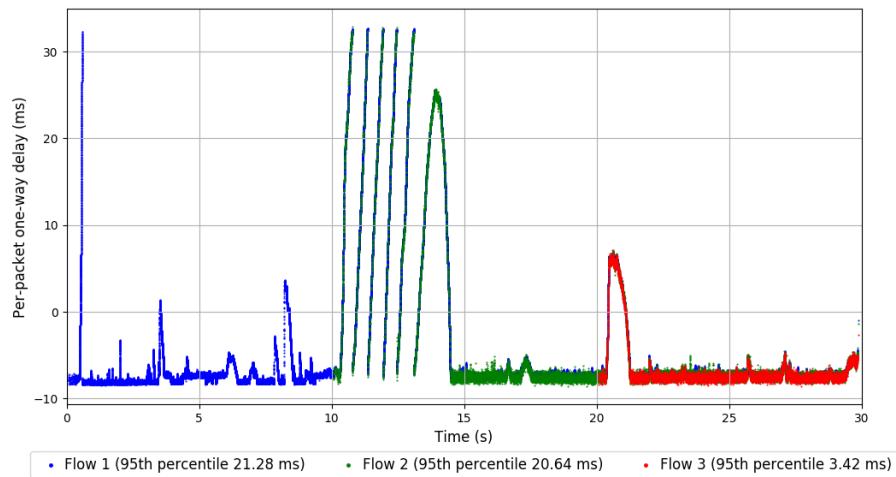
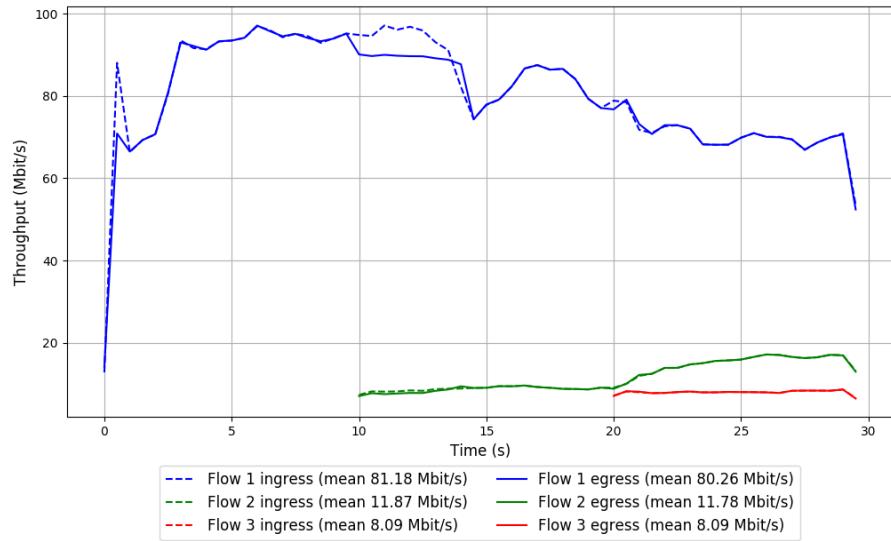


Run 5: Statistics of PCC

```
Start at: 2017-12-20 09:35:57
End at: 2017-12-20 09:36:27
Local clock offset: 4.513 ms
Remote clock offset: -14.327 ms

# Below is generated by plot.py at 2017-12-20 11:40:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.76 Mbit/s
95th percentile per-packet one-way delay: 20.860 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 80.26 Mbit/s
95th percentile per-packet one-way delay: 21.283 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 11.78 Mbit/s
95th percentile per-packet one-way delay: 20.640 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 8.09 Mbit/s
95th percentile per-packet one-way delay: 3.419 ms
Loss rate: 0.00%
```

Run 5: Report of PCC — Data Link

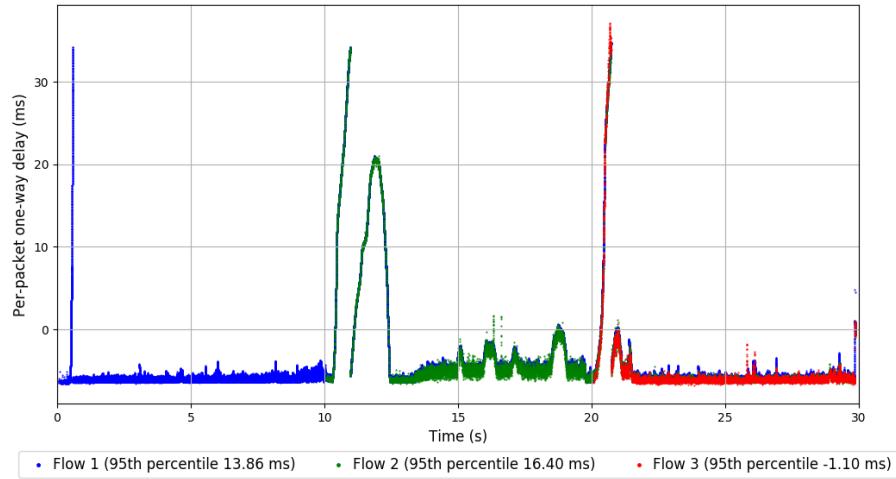
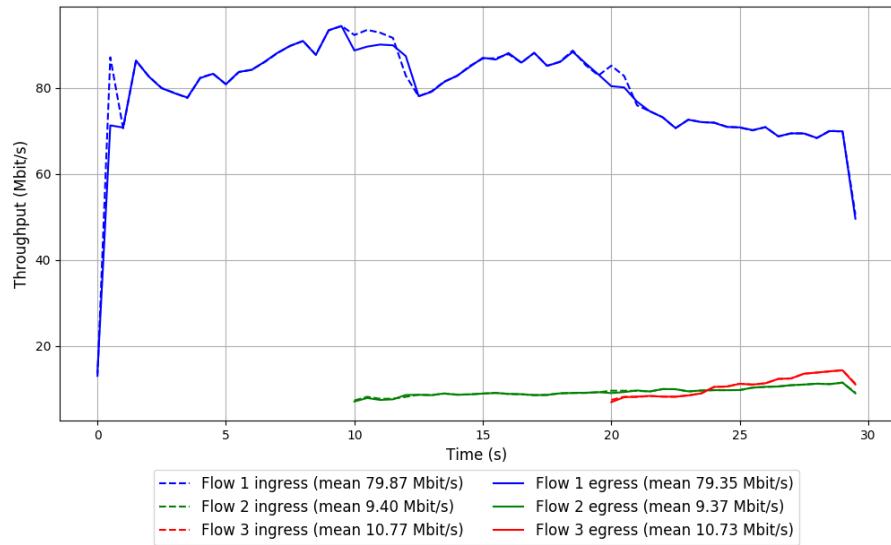


Run 6: Statistics of PCC

```
Start at: 2017-12-20 09:54:39
End at: 2017-12-20 09:55:09
Local clock offset: 3.402 ms
Remote clock offset: -12.842 ms

# Below is generated by plot.py at 2017-12-20 11:40:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.11 Mbit/s
95th percentile per-packet one-way delay: 13.696 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 79.35 Mbit/s
95th percentile per-packet one-way delay: 13.856 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 9.37 Mbit/s
95th percentile per-packet one-way delay: 16.399 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 10.73 Mbit/s
95th percentile per-packet one-way delay: -1.104 ms
Loss rate: 0.31%
```

Run 6: Report of PCC — Data Link

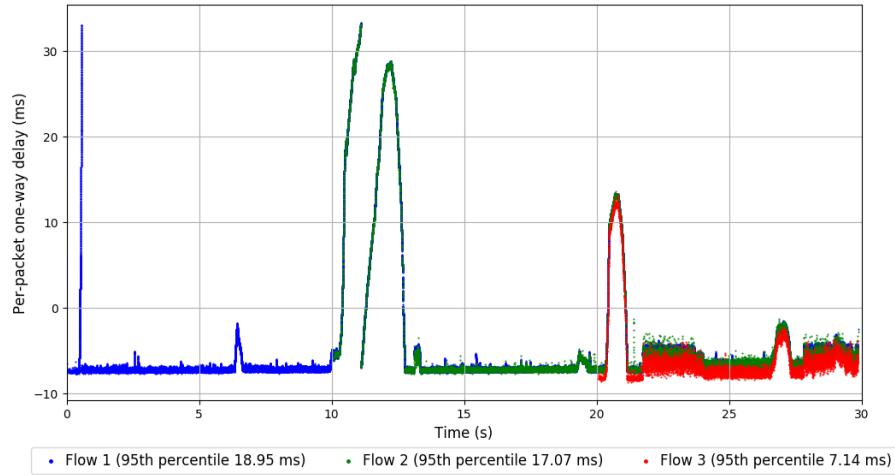
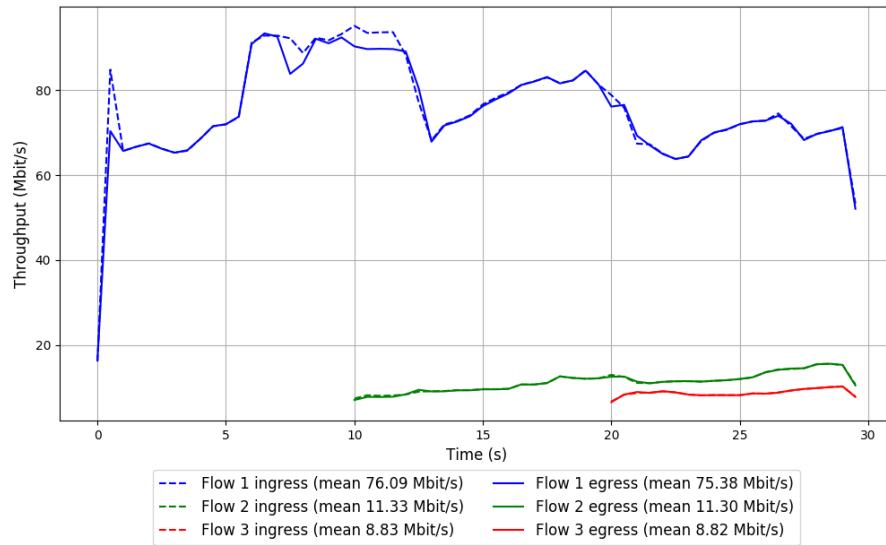


Run 7: Statistics of PCC

```
Start at: 2017-12-20 10:13:35
End at: 2017-12-20 10:14:05
Local clock offset: 2.859 ms
Remote clock offset: -14.33 ms

# Below is generated by plot.py at 2017-12-20 11:40:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.80 Mbit/s
95th percentile per-packet one-way delay: 18.194 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 75.38 Mbit/s
95th percentile per-packet one-way delay: 18.947 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 11.30 Mbit/s
95th percentile per-packet one-way delay: 17.069 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 8.82 Mbit/s
95th percentile per-packet one-way delay: 7.140 ms
Loss rate: 0.00%
```

Run 7: Report of PCC — Data Link

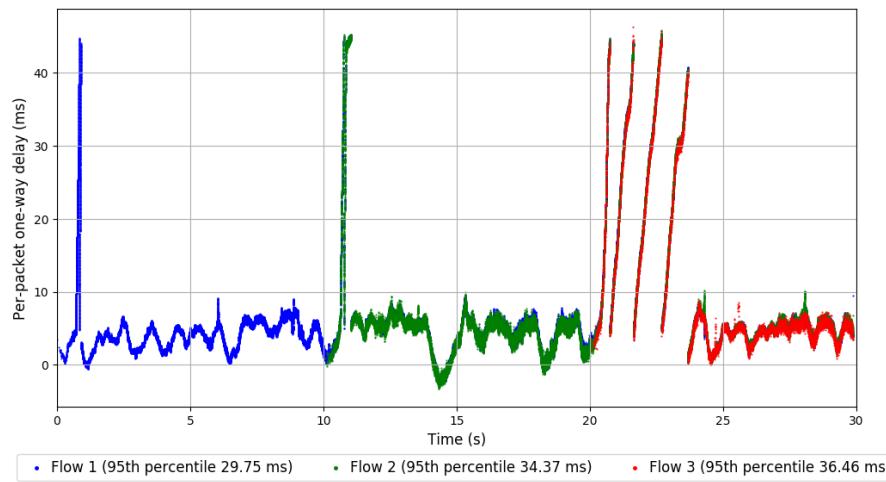
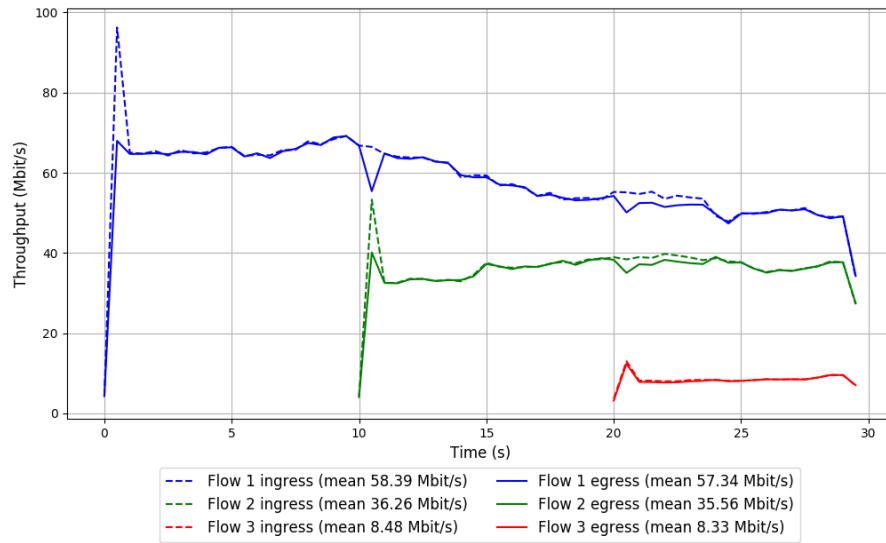


Run 8: Statistics of PCC

```
Start at: 2017-12-20 10:32:01
End at: 2017-12-20 10:32:31
Local clock offset: 3.295 ms
Remote clock offset: -28.202 ms

# Below is generated by plot.py at 2017-12-20 11:40:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.73 Mbit/s
95th percentile per-packet one-way delay: 31.465 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 57.34 Mbit/s
95th percentile per-packet one-way delay: 29.745 ms
Loss rate: 1.78%
-- Flow 2:
Average throughput: 35.56 Mbit/s
95th percentile per-packet one-way delay: 34.367 ms
Loss rate: 1.90%
-- Flow 3:
Average throughput: 8.33 Mbit/s
95th percentile per-packet one-way delay: 36.460 ms
Loss rate: 1.77%
```

Run 8: Report of PCC — Data Link

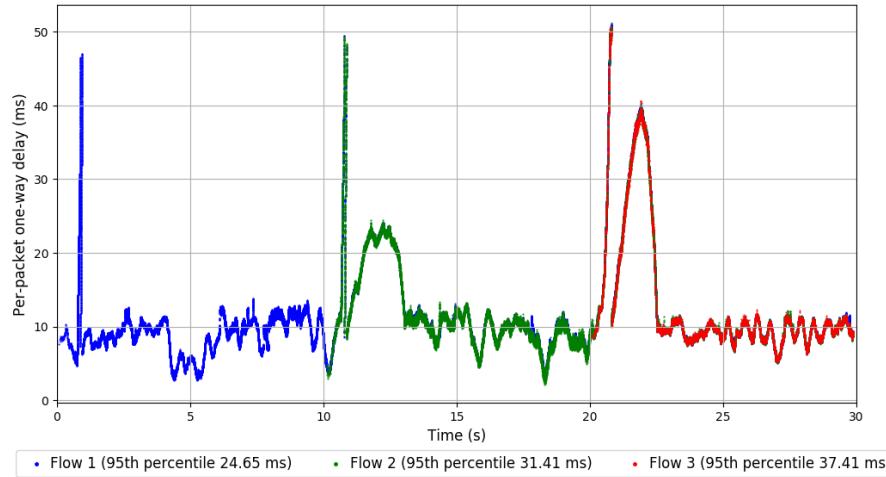
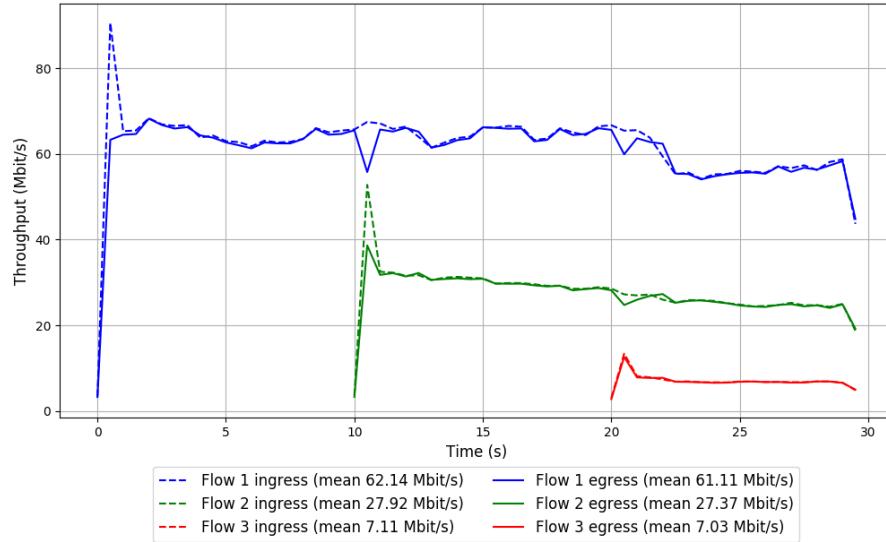


Run 9: Statistics of PCC

```
Start at: 2017-12-20 10:51:04
End at: 2017-12-20 10:51:34
Local clock offset: 3.02 ms
Remote clock offset: -24.65 ms

# Below is generated by plot.py at 2017-12-20 11:41:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.62 Mbit/s
95th percentile per-packet one-way delay: 27.741 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 61.11 Mbit/s
95th percentile per-packet one-way delay: 24.647 ms
Loss rate: 1.65%
-- Flow 2:
Average throughput: 27.37 Mbit/s
95th percentile per-packet one-way delay: 31.411 ms
Loss rate: 1.96%
-- Flow 3:
Average throughput: 7.03 Mbit/s
95th percentile per-packet one-way delay: 37.414 ms
Loss rate: 1.15%
```

Run 9: Report of PCC — Data Link

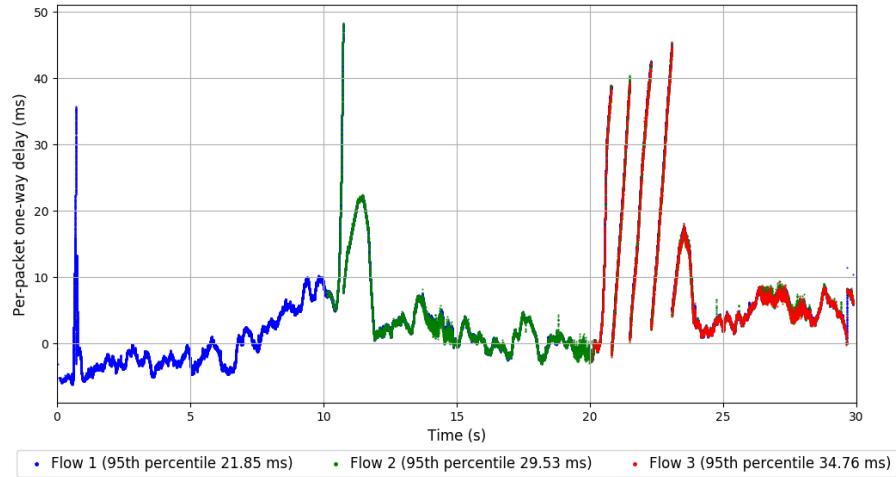
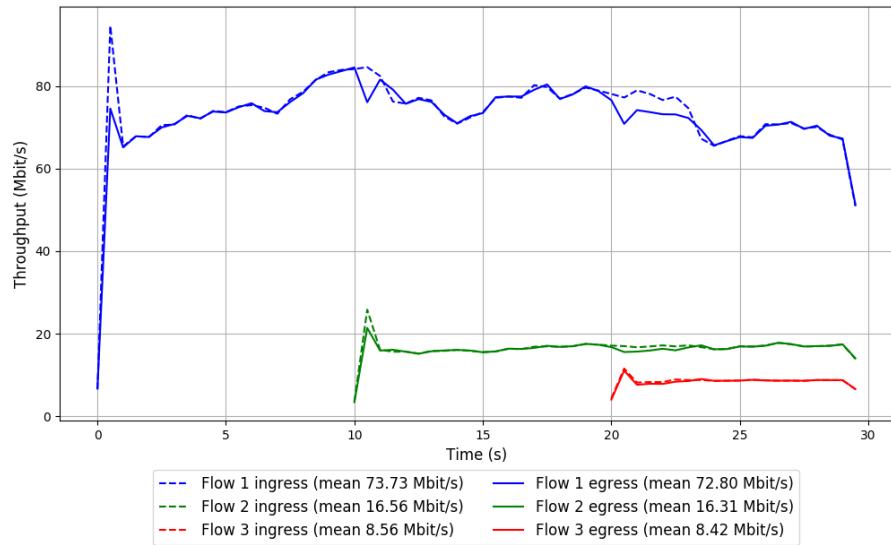


Run 10: Statistics of PCC

```
Start at: 2017-12-20 11:09:16
End at: 2017-12-20 11:09:46
Local clock offset: 1.118 ms
Remote clock offset: -24.099 ms

# Below is generated by plot.py at 2017-12-20 11:41:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.42 Mbit/s
95th percentile per-packet one-way delay: 23.318 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 72.80 Mbit/s
95th percentile per-packet one-way delay: 21.854 ms
Loss rate: 1.22%
-- Flow 2:
Average throughput: 16.31 Mbit/s
95th percentile per-packet one-way delay: 29.532 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 8.42 Mbit/s
95th percentile per-packet one-way delay: 34.763 ms
Loss rate: 1.59%
```

Run 10: Report of PCC — Data Link

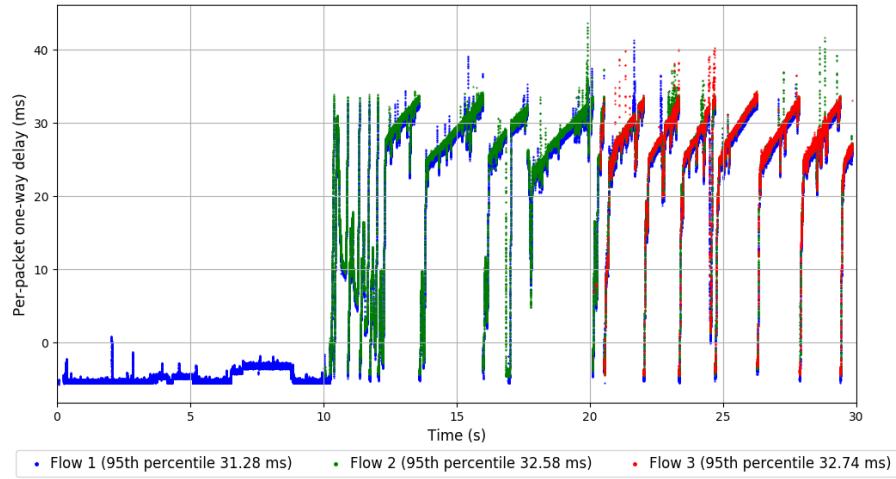
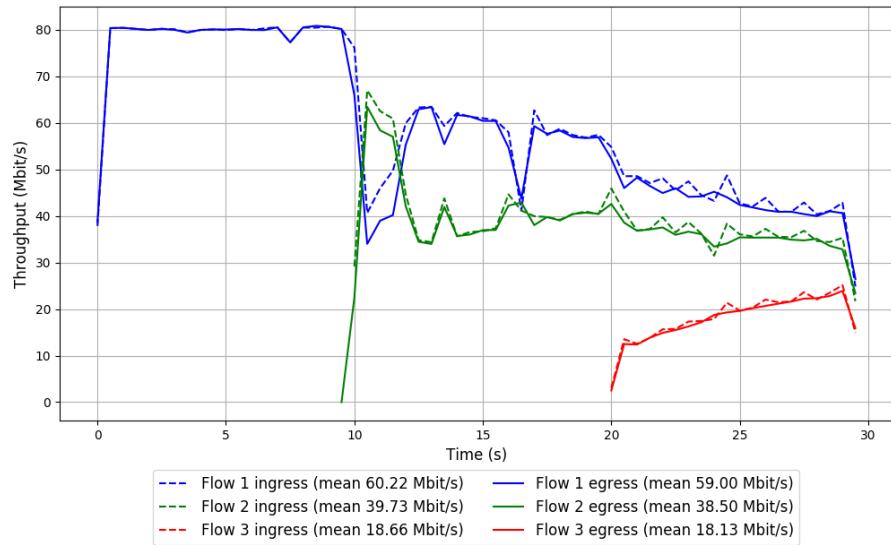


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-12-20 08:06:39
End at: 2017-12-20 08:07:09
Local clock offset: 1.967 ms
Remote clock offset: -11.863 ms

# Below is generated by plot.py at 2017-12-20 11:41:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.49 Mbit/s
95th percentile per-packet one-way delay: 31.945 ms
Loss rate: 2.27%
-- Flow 1:
Average throughput: 59.00 Mbit/s
95th percentile per-packet one-way delay: 31.277 ms
Loss rate: 1.94%
-- Flow 2:
Average throughput: 38.50 Mbit/s
95th percentile per-packet one-way delay: 32.576 ms
Loss rate: 2.96%
-- Flow 3:
Average throughput: 18.13 Mbit/s
95th percentile per-packet one-way delay: 32.738 ms
Loss rate: 2.54%
```

Run 1: Report of QUIC Cubic — Data Link

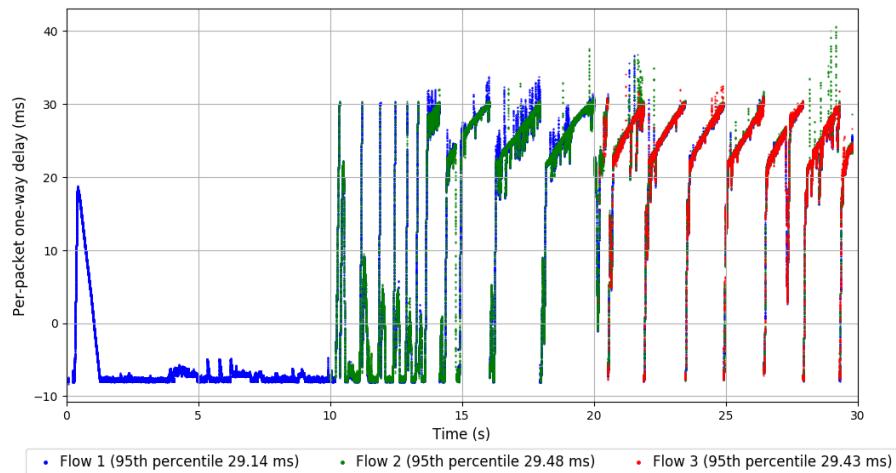
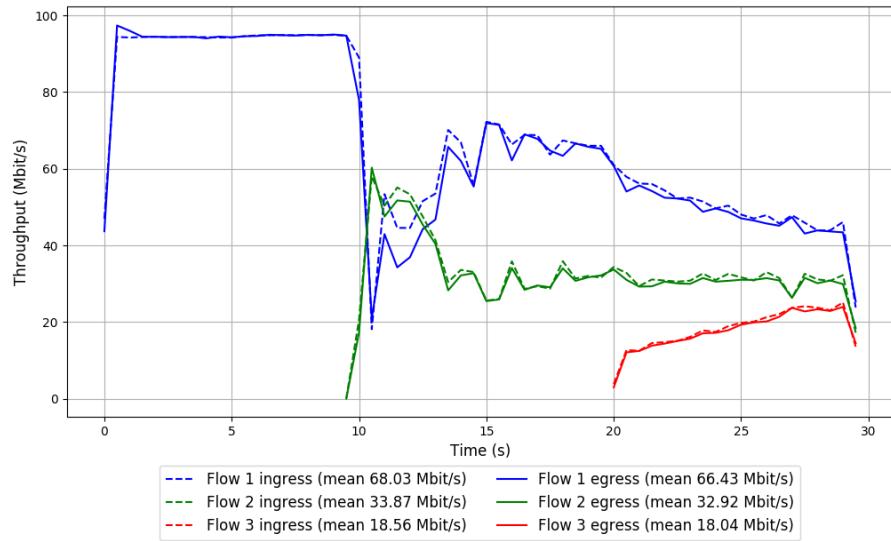


Run 2: Statistics of QUIC Cubic

```
Start at: 2017-12-20 08:25:16
End at: 2017-12-20 08:25:46
Local clock offset: 4.721 ms
Remote clock offset: -12.712 ms

# Below is generated by plot.py at 2017-12-20 11:41:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.22 Mbit/s
95th percentile per-packet one-way delay: 29.263 ms
Loss rate: 2.36%
-- Flow 1:
Average throughput: 66.43 Mbit/s
95th percentile per-packet one-way delay: 29.138 ms
Loss rate: 2.24%
-- Flow 2:
Average throughput: 32.92 Mbit/s
95th percentile per-packet one-way delay: 29.483 ms
Loss rate: 2.63%
-- Flow 3:
Average throughput: 18.04 Mbit/s
95th percentile per-packet one-way delay: 29.428 ms
Loss rate: 2.72%
```

Run 2: Report of QUIC Cubic — Data Link

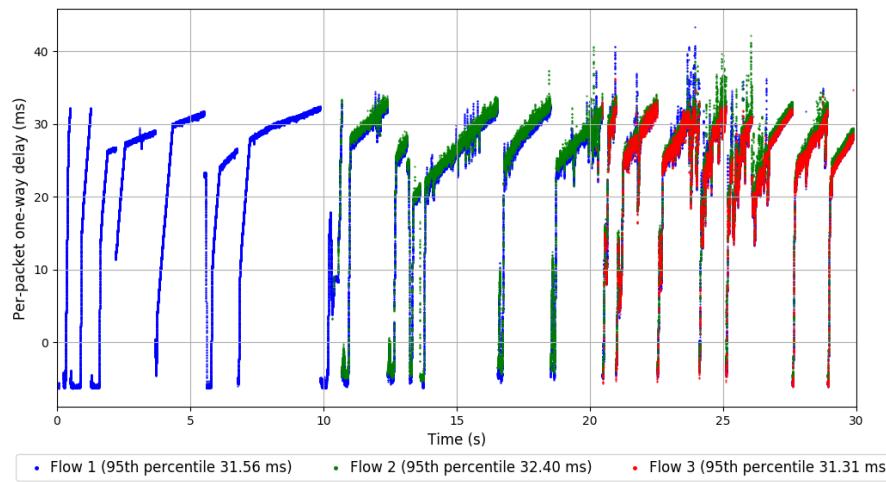
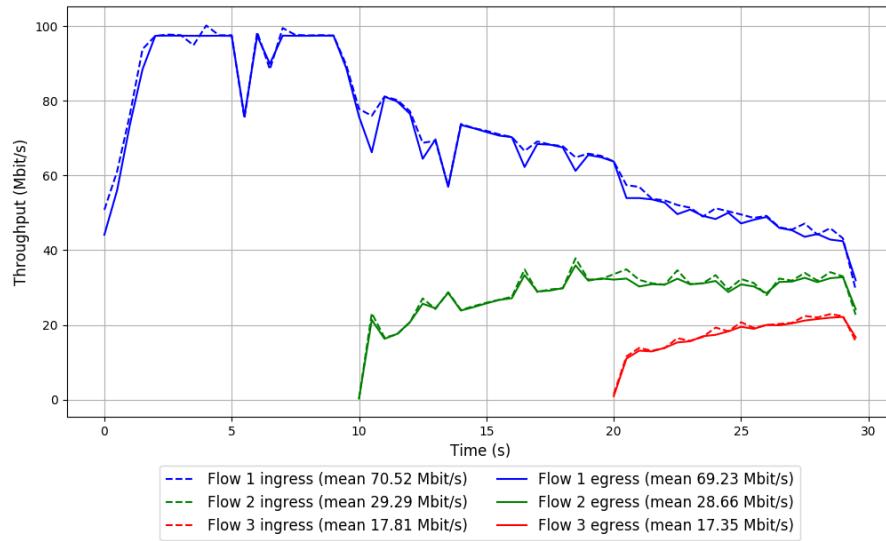


Run 3: Statistics of QUIC Cubic

```
Start at: 2017-12-20 08:43:16
End at: 2017-12-20 08:43:46
Local clock offset: 1.975 ms
Remote clock offset: -12.555 ms

# Below is generated by plot.py at 2017-12-20 11:41:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.65 Mbit/s
95th percentile per-packet one-way delay: 31.702 ms
Loss rate: 1.84%
-- Flow 1:
Average throughput: 69.23 Mbit/s
95th percentile per-packet one-way delay: 31.560 ms
Loss rate: 1.72%
-- Flow 2:
Average throughput: 28.66 Mbit/s
95th percentile per-packet one-way delay: 32.403 ms
Loss rate: 2.05%
-- Flow 3:
Average throughput: 17.35 Mbit/s
95th percentile per-packet one-way delay: 31.311 ms
Loss rate: 2.53%
```

Run 3: Report of QUIC Cubic — Data Link

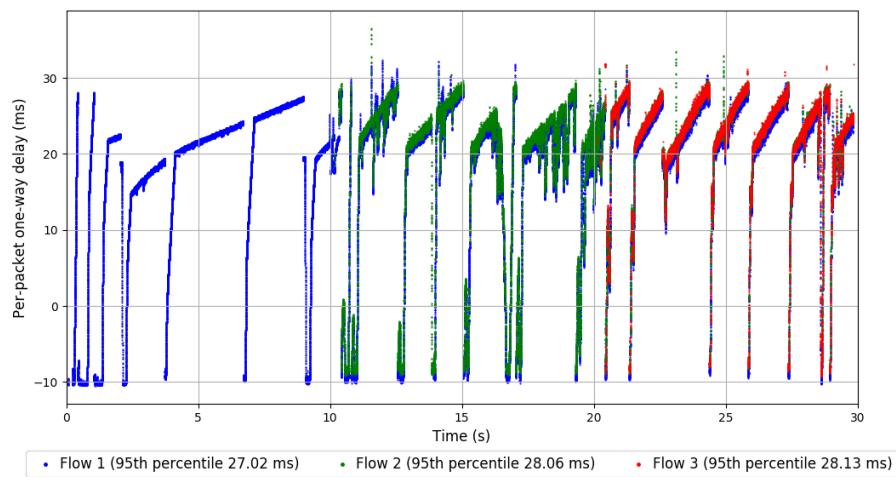
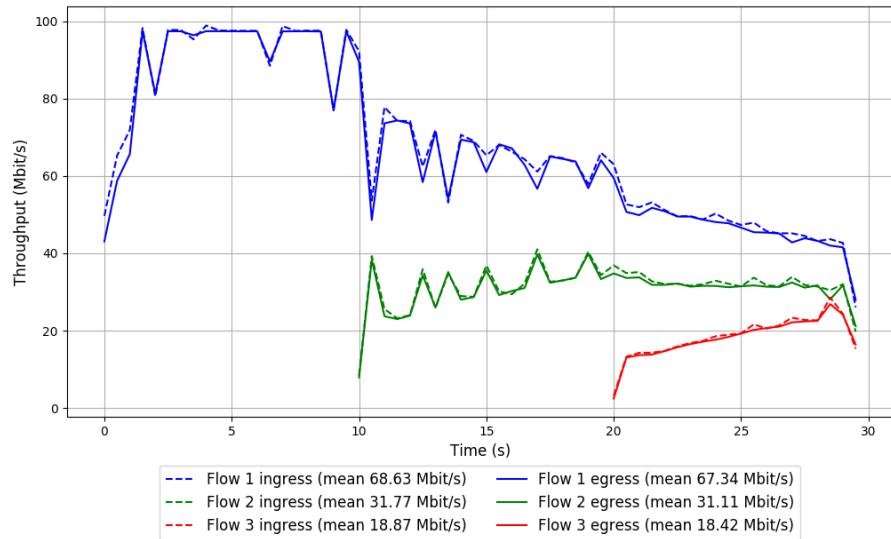


Run 4: Statistics of QUIC Cubic

```
Start at: 2017-12-20 09:01:34
End at: 2017-12-20 09:02:04
Local clock offset: 4.151 ms
Remote clock offset: -14.447 ms

# Below is generated by plot.py at 2017-12-20 11:41:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.99 Mbit/s
95th percentile per-packet one-way delay: 27.393 ms
Loss rate: 1.85%
-- Flow 1:
Average throughput: 67.34 Mbit/s
95th percentile per-packet one-way delay: 27.021 ms
Loss rate: 1.76%
-- Flow 2:
Average throughput: 31.11 Mbit/s
95th percentile per-packet one-way delay: 28.060 ms
Loss rate: 2.04%
-- Flow 3:
Average throughput: 18.42 Mbit/s
95th percentile per-packet one-way delay: 28.133 ms
Loss rate: 2.29%
```

Run 4: Report of QUIC Cubic — Data Link

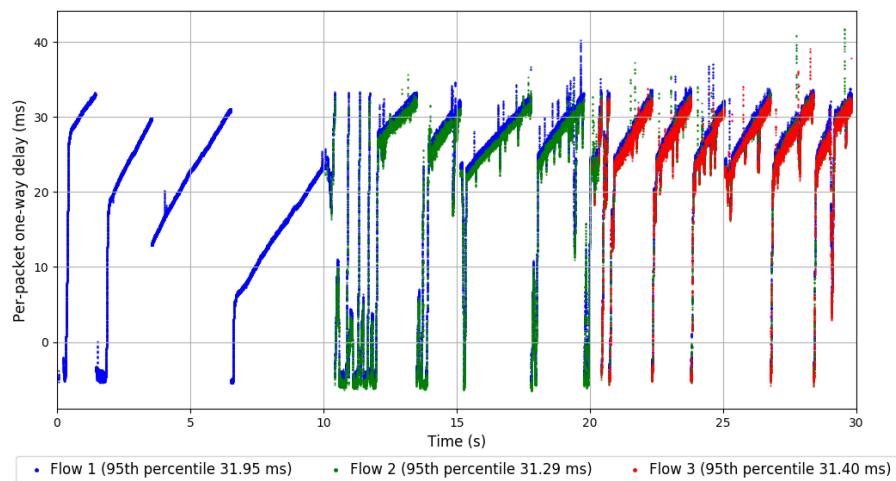
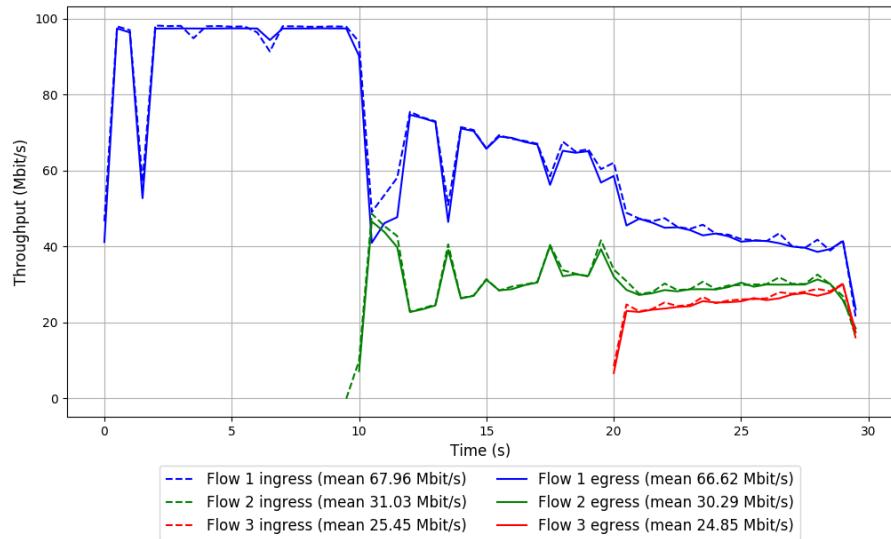


Run 5: Statistics of QUIC Cubic

```
Start at: 2017-12-20 09:20:50
End at: 2017-12-20 09:21:20
Local clock offset: 1.663 ms
Remote clock offset: -14.681 ms

# Below is generated by plot.py at 2017-12-20 11:41:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.89 Mbit/s
95th percentile per-packet one-way delay: 31.760 ms
Loss rate: 1.99%
-- Flow 1:
Average throughput: 66.62 Mbit/s
95th percentile per-packet one-way delay: 31.948 ms
Loss rate: 1.86%
-- Flow 2:
Average throughput: 30.29 Mbit/s
95th percentile per-packet one-way delay: 31.292 ms
Loss rate: 2.32%
-- Flow 3:
Average throughput: 24.85 Mbit/s
95th percentile per-packet one-way delay: 31.398 ms
Loss rate: 2.23%
```

Run 5: Report of QUIC Cubic — Data Link

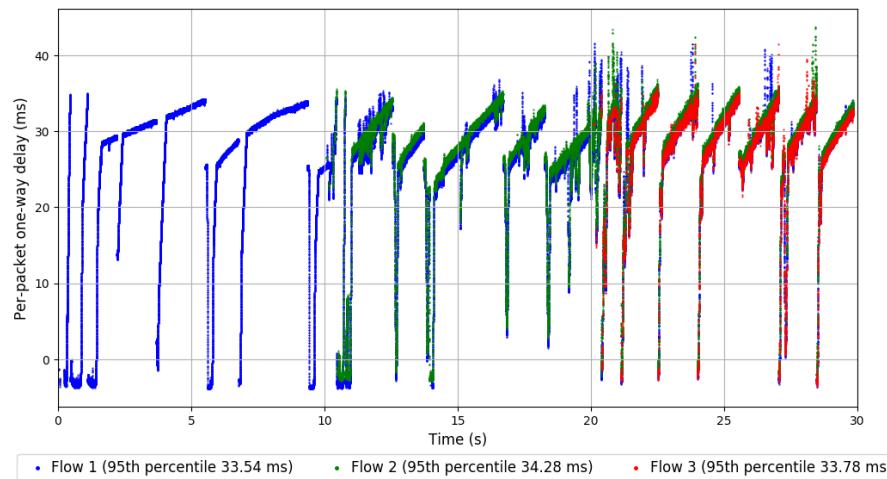
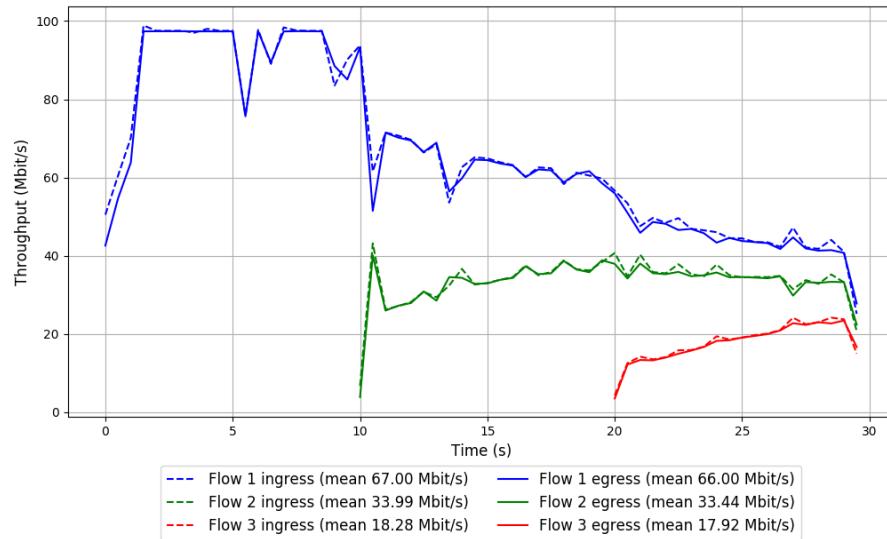


Run 6: Statistics of QUIC Cubic

```
Start at: 2017-12-20 09:39:32
End at: 2017-12-20 09:40:02
Local clock offset: 0.889 ms
Remote clock offset: -12.269 ms

# Below is generated by plot.py at 2017-12-20 11:42:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.06 Mbit/s
95th percentile per-packet one-way delay: 33.682 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 66.00 Mbit/s
95th percentile per-packet one-way delay: 33.541 ms
Loss rate: 1.37%
-- Flow 2:
Average throughput: 33.44 Mbit/s
95th percentile per-packet one-way delay: 34.283 ms
Loss rate: 1.59%
-- Flow 3:
Average throughput: 17.92 Mbit/s
95th percentile per-packet one-way delay: 33.785 ms
Loss rate: 1.94%
```

Run 6: Report of QUIC Cubic — Data Link

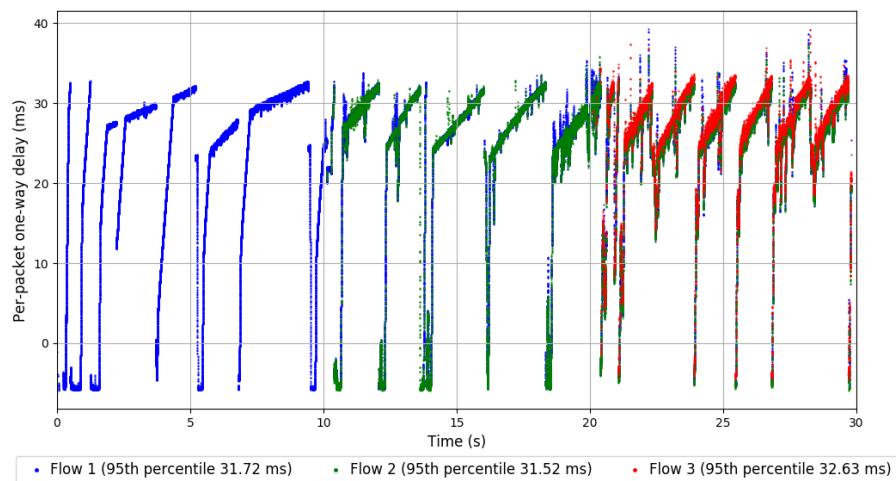
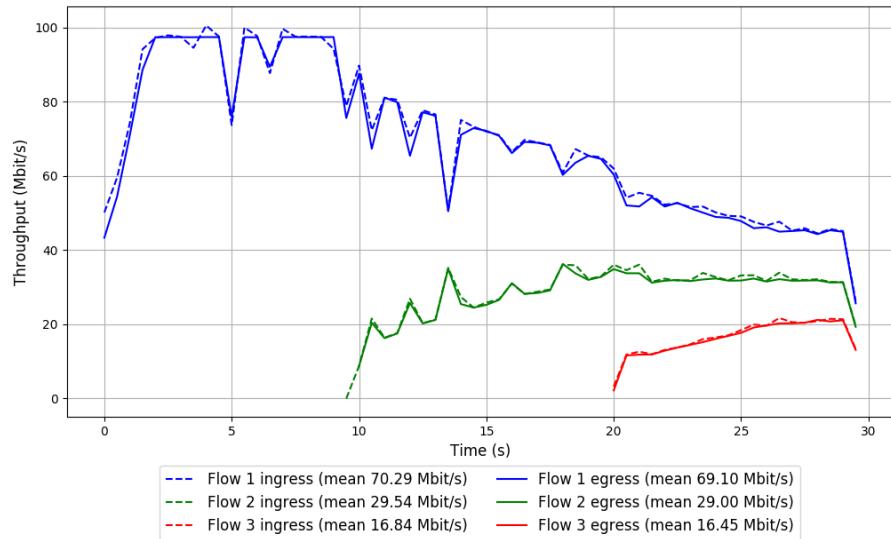


Run 7: Statistics of QUIC Cubic

```
Start at: 2017-12-20 09:58:14
End at: 2017-12-20 09:58:44
Local clock offset: 1.368 ms
Remote clock offset: -13.173 ms

# Below is generated by plot.py at 2017-12-20 11:43:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.74 Mbit/s
95th percentile per-packet one-way delay: 31.731 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 69.10 Mbit/s
95th percentile per-packet one-way delay: 31.716 ms
Loss rate: 1.61%
-- Flow 2:
Average throughput: 29.00 Mbit/s
95th percentile per-packet one-way delay: 31.521 ms
Loss rate: 1.83%
-- Flow 3:
Average throughput: 16.45 Mbit/s
95th percentile per-packet one-way delay: 32.626 ms
Loss rate: 2.43%
```

Run 7: Report of QUIC Cubic — Data Link

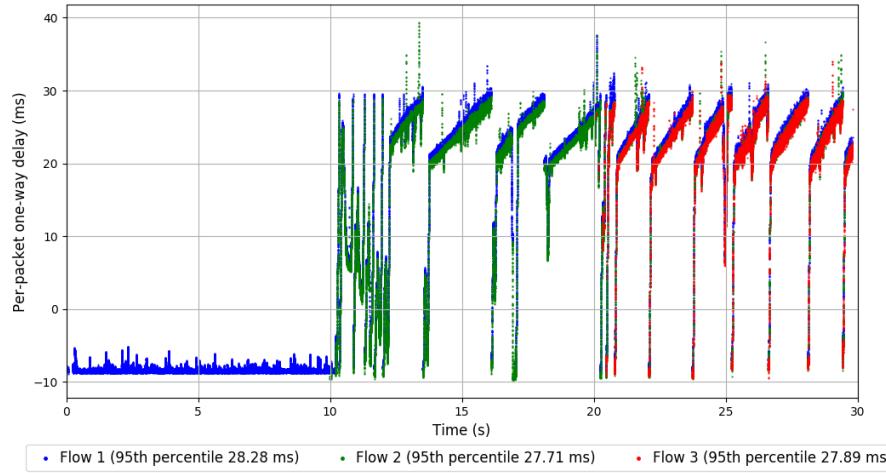
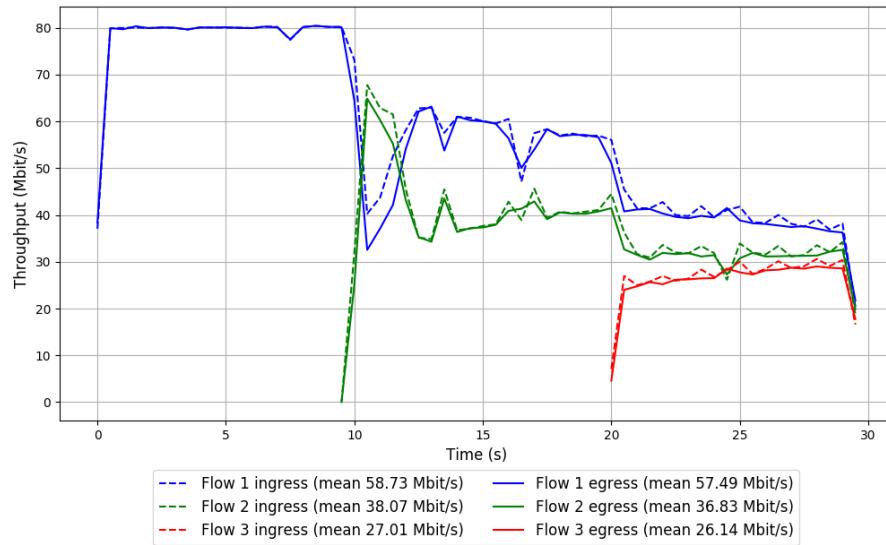


Run 8: Statistics of QUIC Cubic

```
Start at: 2017-12-20 10:17:06
End at: 2017-12-20 10:17:36
Local clock offset: 3.356 ms
Remote clock offset: -15.218 ms

# Below is generated by plot.py at 2017-12-20 11:43:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.56 Mbit/s
95th percentile per-packet one-way delay: 28.065 ms
Loss rate: 2.42%
-- Flow 1:
Average throughput: 57.49 Mbit/s
95th percentile per-packet one-way delay: 28.279 ms
Loss rate: 2.01%
-- Flow 2:
Average throughput: 36.83 Mbit/s
95th percentile per-packet one-way delay: 27.715 ms
Loss rate: 3.11%
-- Flow 3:
Average throughput: 26.14 Mbit/s
95th percentile per-packet one-way delay: 27.889 ms
Loss rate: 3.21%
```

Run 8: Report of QUIC Cubic — Data Link

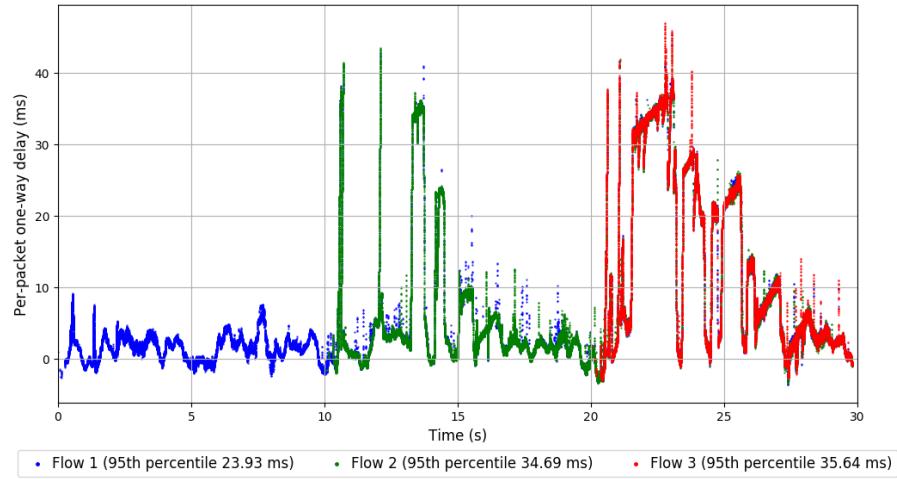
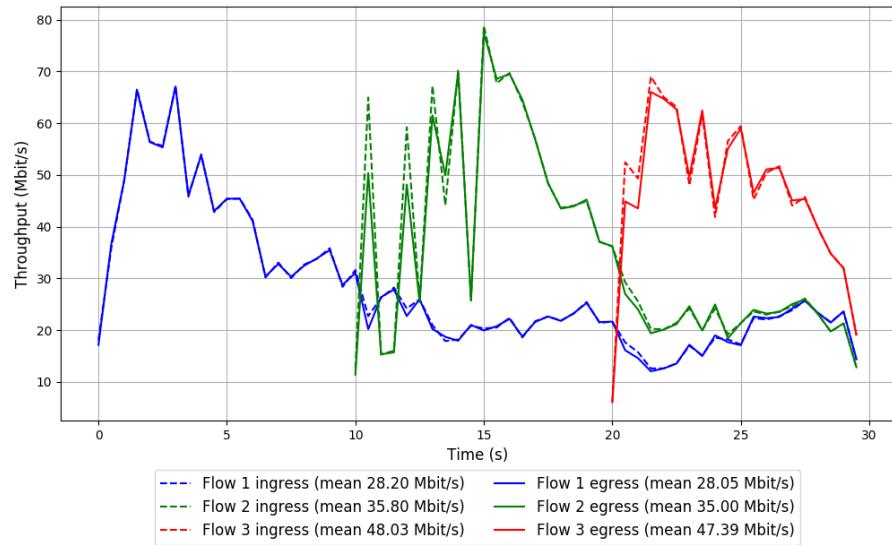


Run 9: Statistics of QUIC Cubic

```
Start at: 2017-12-20 10:35:55
End at: 2017-12-20 10:36:25
Local clock offset: 2.22 ms
Remote clock offset: -31.894 ms

# Below is generated by plot.py at 2017-12-20 11:43:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.74 Mbit/s
95th percentile per-packet one-way delay: 34.344 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 28.05 Mbit/s
95th percentile per-packet one-way delay: 23.930 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 35.00 Mbit/s
95th percentile per-packet one-way delay: 34.687 ms
Loss rate: 2.24%
-- Flow 3:
Average throughput: 47.39 Mbit/s
95th percentile per-packet one-way delay: 35.638 ms
Loss rate: 1.35%
```

Run 9: Report of QUIC Cubic — Data Link

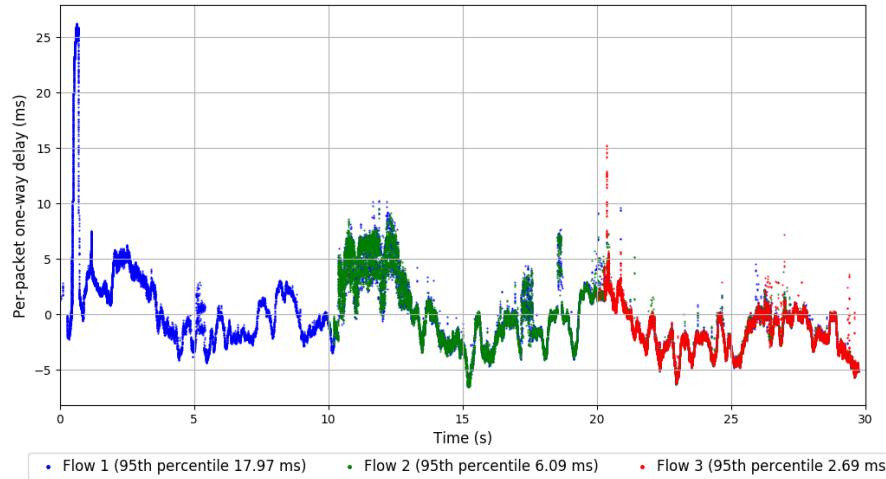
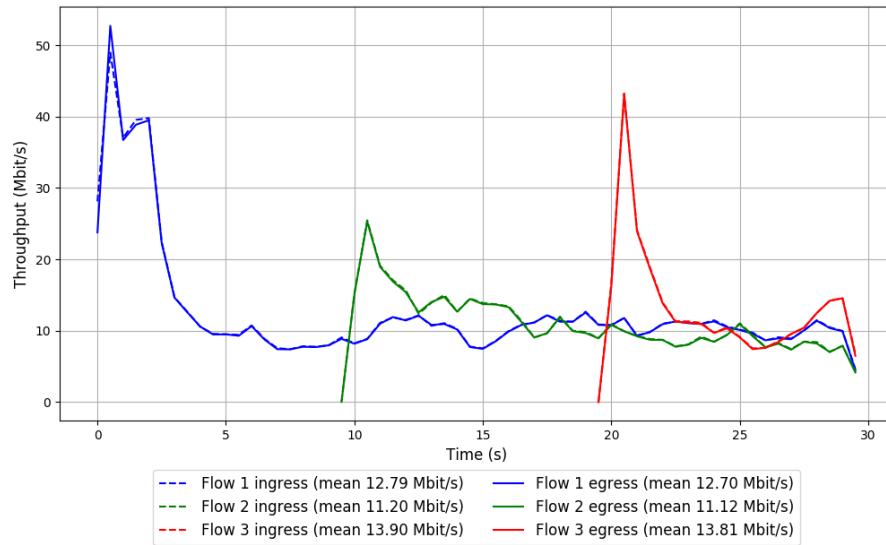


Run 10: Statistics of QUIC Cubic

```
Start at: 2017-12-20 10:54:50
End at: 2017-12-20 10:55:20
Local clock offset: 2.765 ms
Remote clock offset: -25.059 ms

# Below is generated by plot.py at 2017-12-20 11:43:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.64 Mbit/s
95th percentile per-packet one-way delay: 6.433 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 12.70 Mbit/s
95th percentile per-packet one-way delay: 17.972 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 11.12 Mbit/s
95th percentile per-packet one-way delay: 6.094 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 13.81 Mbit/s
95th percentile per-packet one-way delay: 2.686 ms
Loss rate: 0.72%
```

Run 10: Report of QUIC Cubic — Data Link

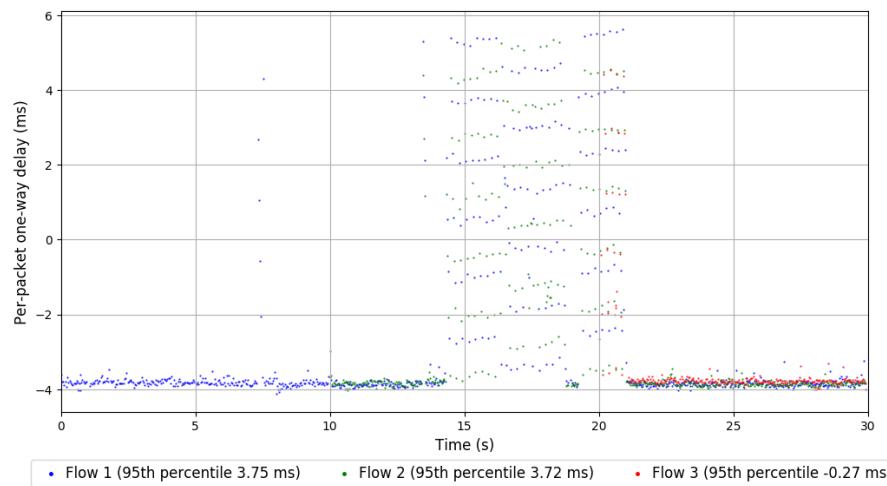
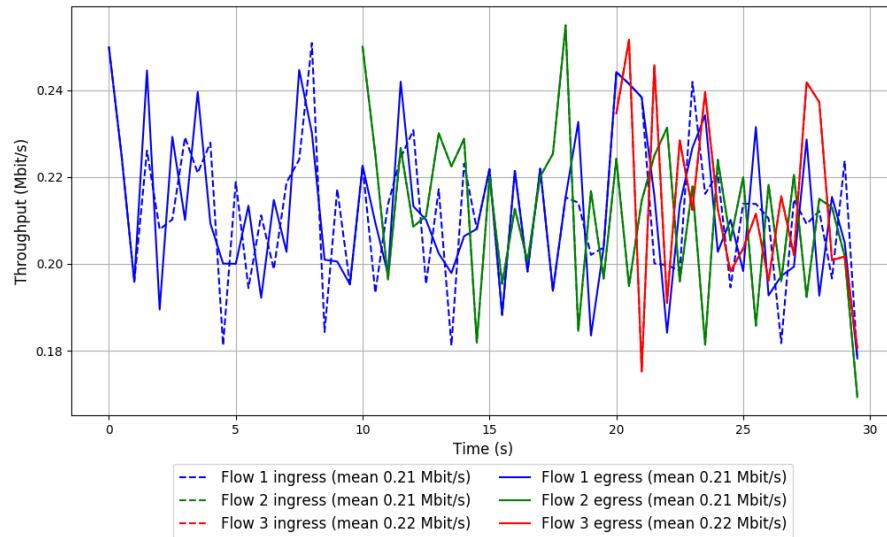


Run 1: Statistics of SCReAM

```
Start at: 2017-12-20 08:16:53
End at: 2017-12-20 08:17:23
Local clock offset: 1.667 ms
Remote clock offset: -10.681 ms

# Below is generated by plot.py at 2017-12-20 11:43:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 3.612 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 3.745 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 3.717 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -0.268 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

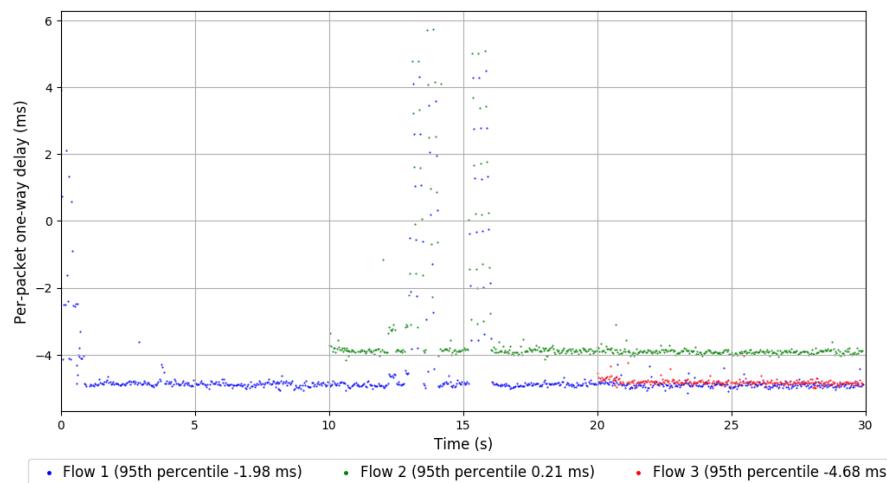
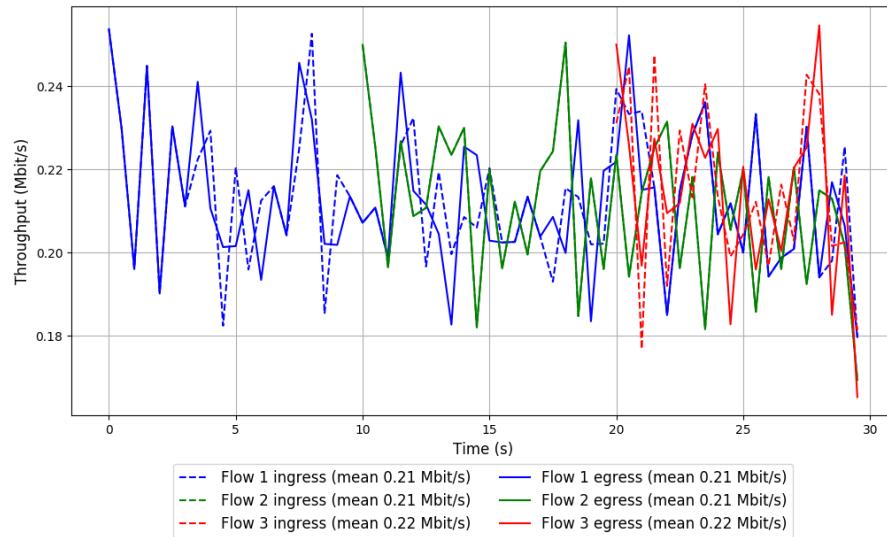


Run 2: Statistics of SCReAM

```
Start at: 2017-12-20 08:34:58
End at: 2017-12-20 08:35:28
Local clock offset: 2.129 ms
Remote clock offset: -11.226 ms

# Below is generated by plot.py at 2017-12-20 11:43:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: -1.865 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -1.983 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 0.212 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -4.685 ms
Loss rate: 0.00%
```

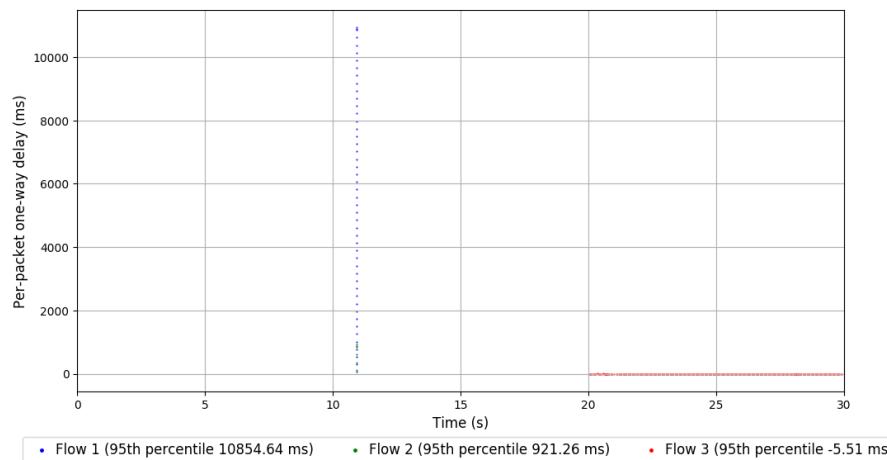
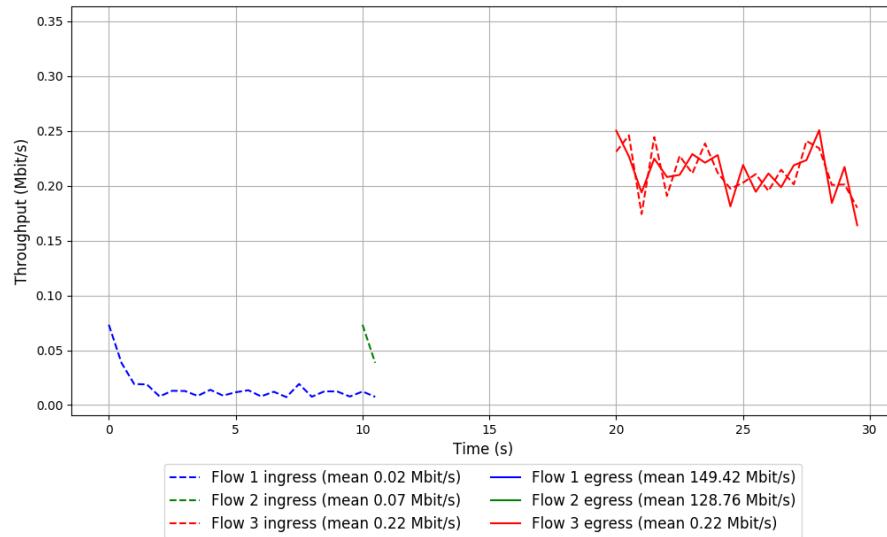
Run 2: Report of SCReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-12-20 08:52:55
End at: 2017-12-20 08:53:25
Local clock offset: 4.43 ms
Remote clock offset: -12.079 ms

Run 3: Report of SCReAM — Data Link

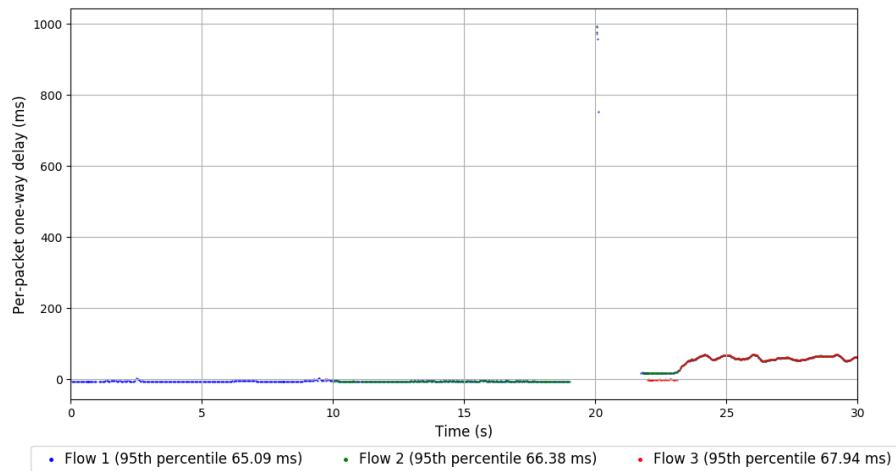
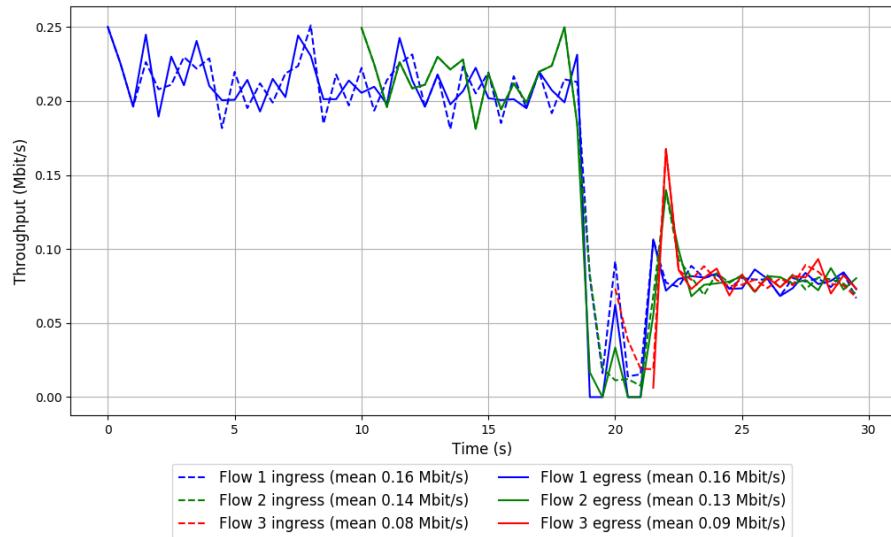


Run 4: Statistics of SCReAM

```
Start at: 2017-12-20 09:12:11
End at: 2017-12-20 09:12:41
Local clock offset: 1.496 ms
Remote clock offset: -14.048 ms

# Below is generated by plot.py at 2017-12-20 11:43:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 66.589 ms
Loss rate: 2.24%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 65.092 ms
Loss rate: 1.43%
-- Flow 2:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 66.376 ms
Loss rate: 1.65%
-- Flow 3:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 67.942 ms
Loss rate: 9.55%
```

Run 4: Report of SCReAM — Data Link

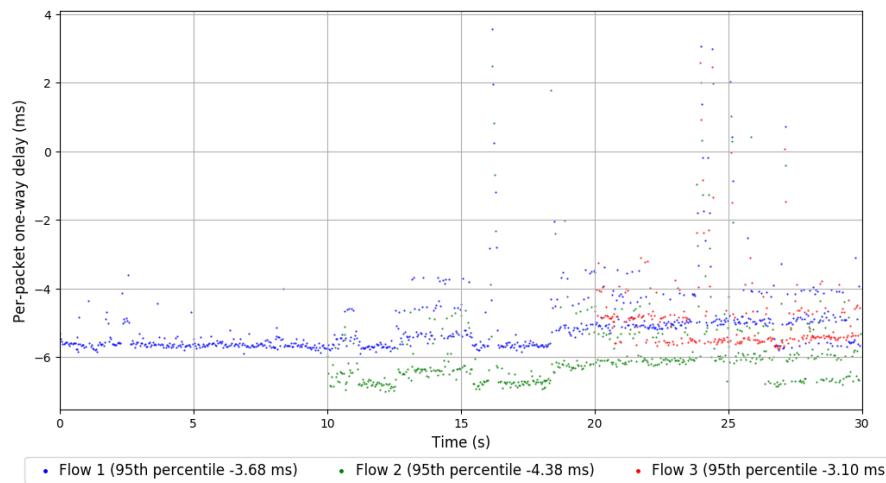
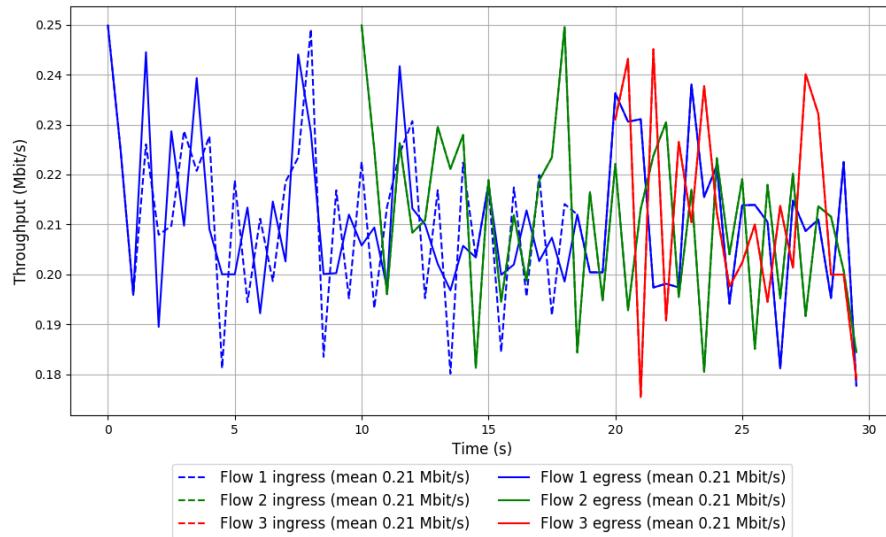


Run 5: Statistics of SCReAM

```
Start at: 2017-12-20 09:30:51
End at: 2017-12-20 09:31:21
Local clock offset: 2.493 ms
Remote clock offset: -13.993 ms

# Below is generated by plot.py at 2017-12-20 11:43:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: -3.675 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -3.677 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -4.382 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -3.100 ms
Loss rate: 0.00%
```

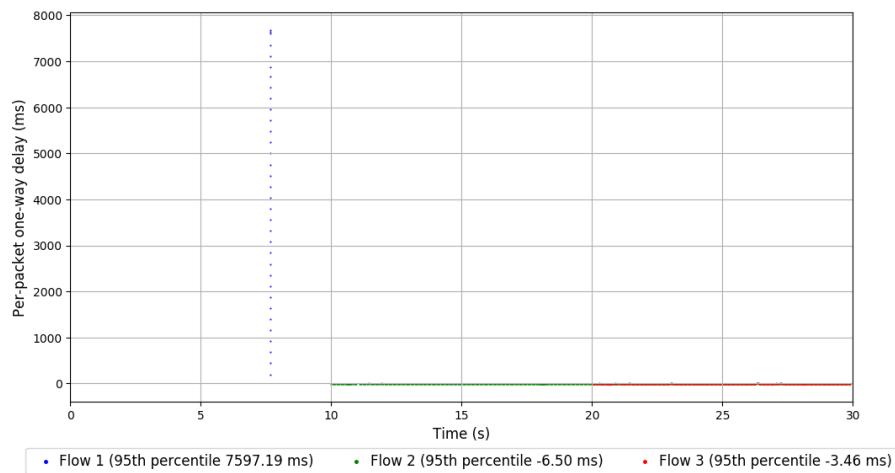
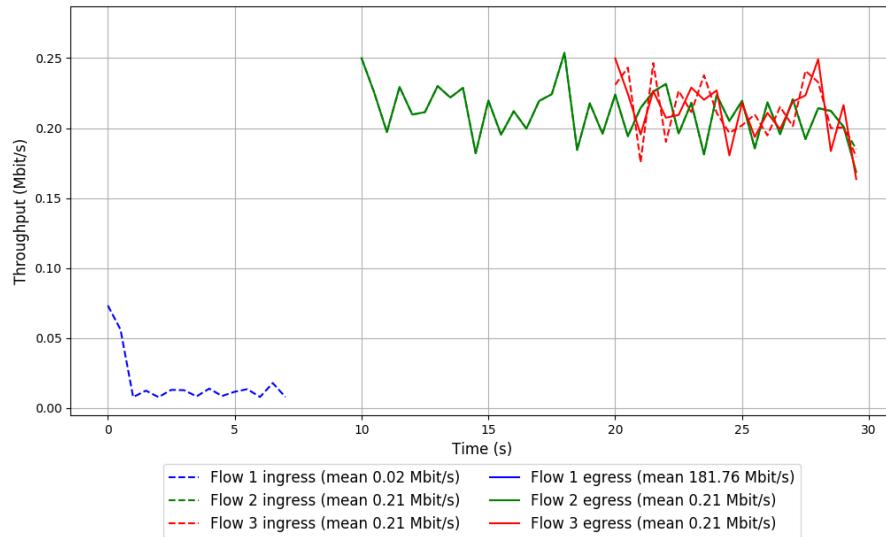
Run 5: Report of SCReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-12-20 09:49:34
End at: 2017-12-20 09:50:04
Local clock offset: 4.172 ms
Remote clock offset: -13.212 ms

Run 6: Report of SCReAM — Data Link

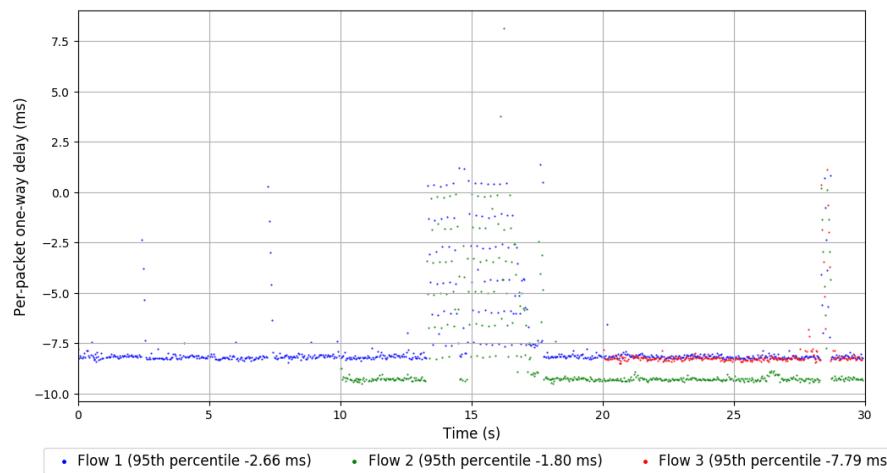
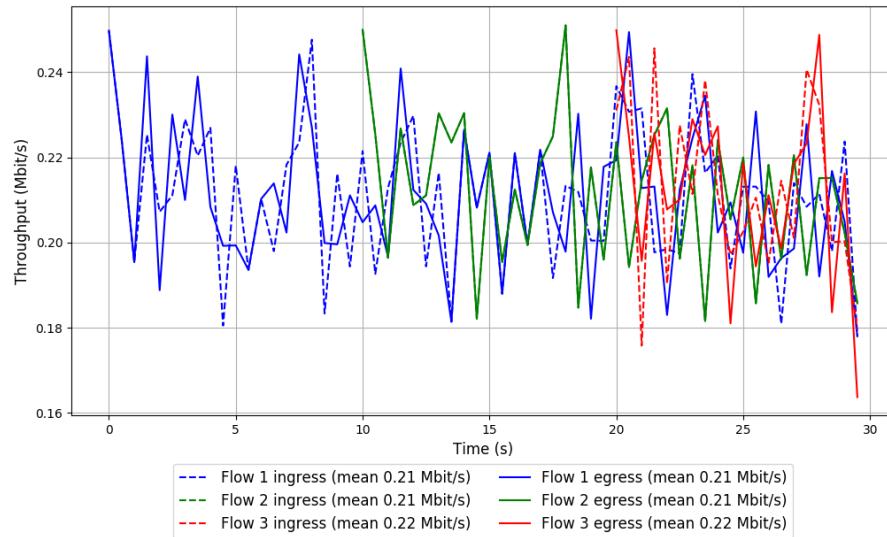


Run 7: Statistics of SCReAM

```
Start at: 2017-12-20 10:08:15
End at: 2017-12-20 10:08:45
Local clock offset: 3.913 ms
Remote clock offset: -13.723 ms

# Below is generated by plot.py at 2017-12-20 11:43:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: -2.663 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -2.663 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: -1.798 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -7.786 ms
Loss rate: 0.00%
```

Run 7: Report of SCReAM — Data Link

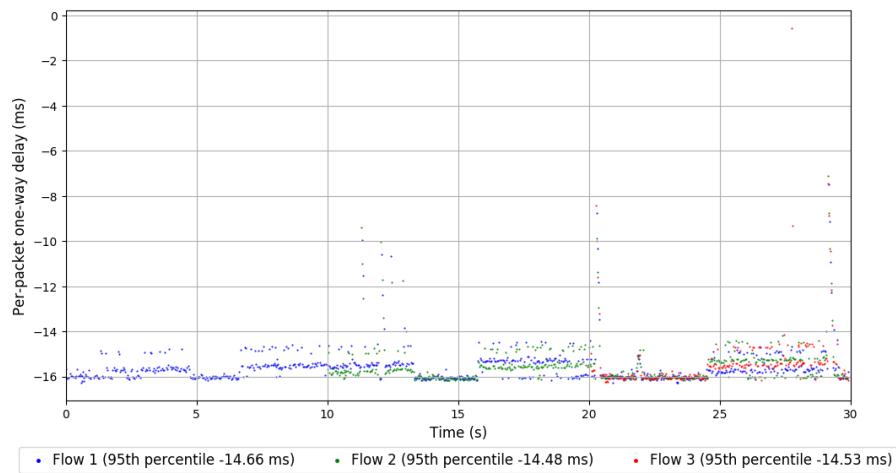
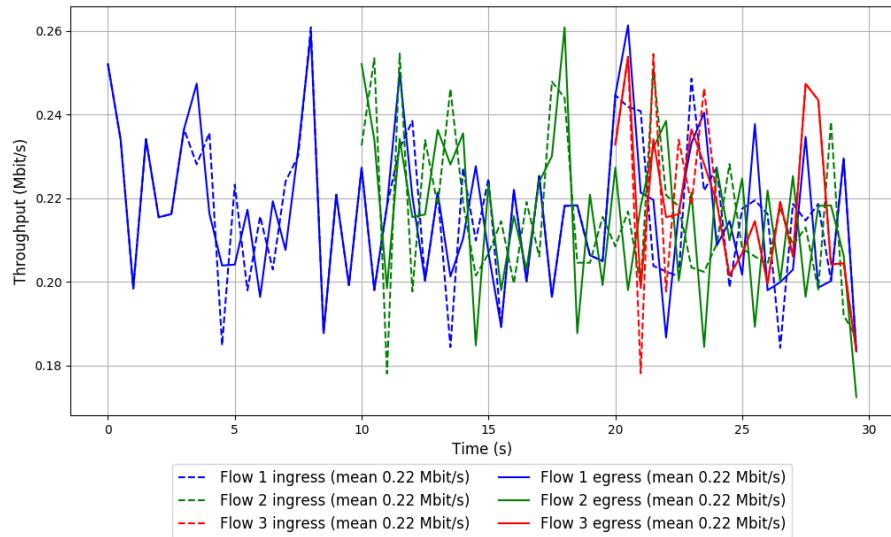


Run 8: Statistics of SCReAM

```
Start at: 2017-12-20 10:26:43
End at: 2017-12-20 10:27:13
Local clock offset: 1.906 ms
Remote clock offset: -29.419 ms

# Below is generated by plot.py at 2017-12-20 11:43:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: -14.571 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -14.665 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -14.478 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: -14.530 ms
Loss rate: 0.00%
```

Run 8: Report of SCReAM — Data Link

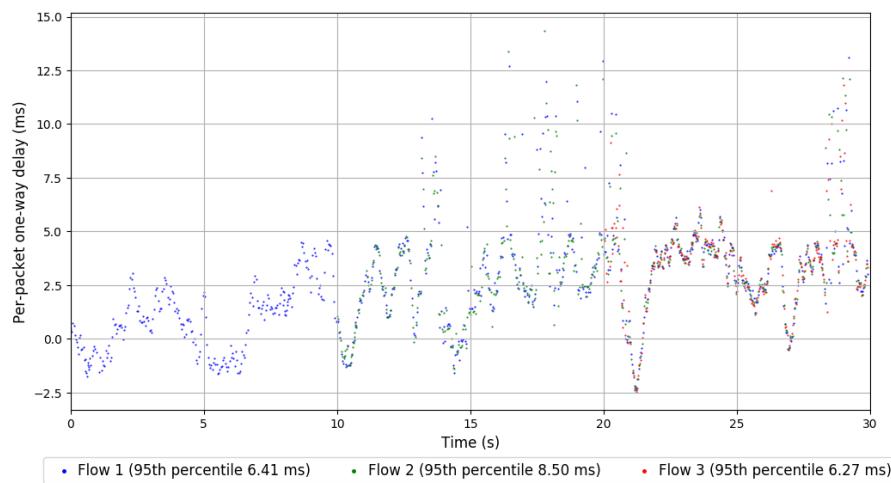
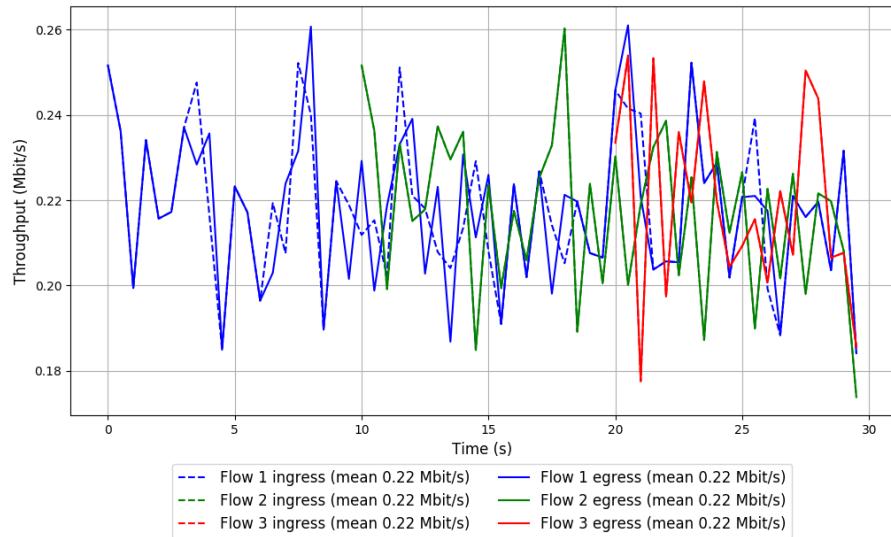


Run 9: Statistics of SCReAM

```
Start at: 2017-12-20 10:45:52
End at: 2017-12-20 10:46:22
Local clock offset: 1.298 ms
Remote clock offset: -29.591 ms

# Below is generated by plot.py at 2017-12-20 11:43:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 7.242 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 6.412 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 8.498 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 6.271 ms
Loss rate: 0.00%
```

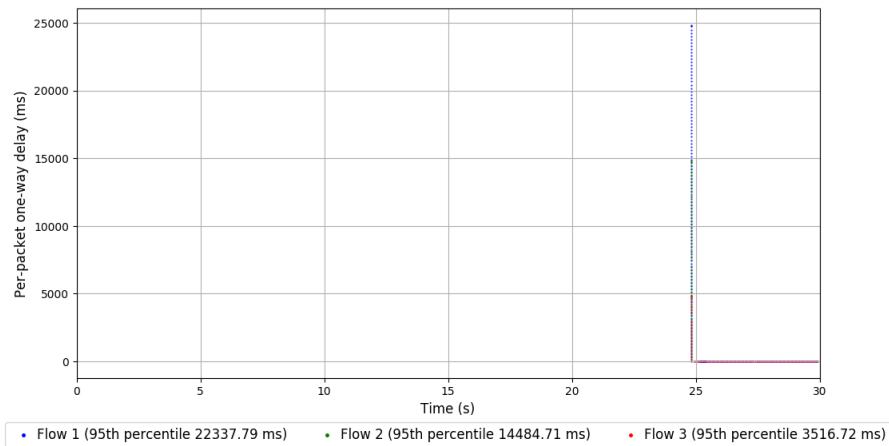
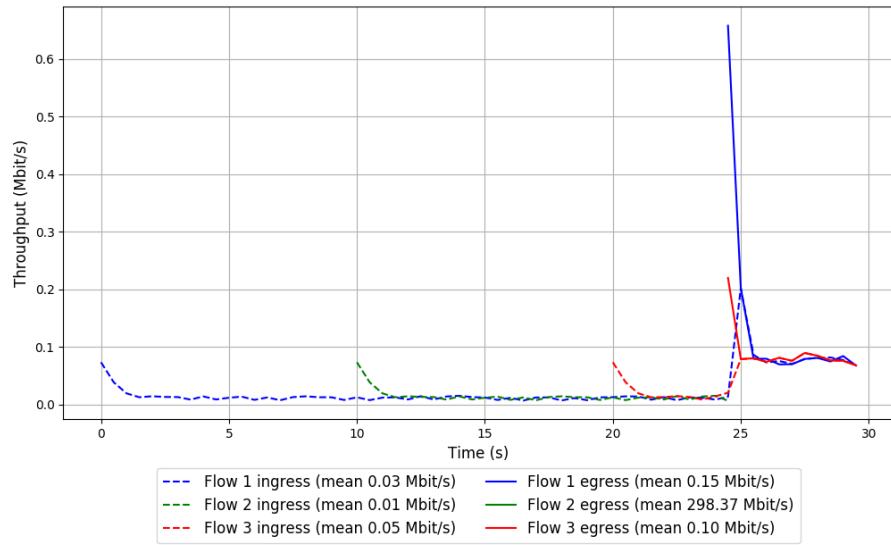
Run 9: Report of SCReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2017-12-20 11:04:18
End at: 2017-12-20 11:04:48
Local clock offset: 1.798 ms
Remote clock offset: -25.686 ms

Run 10: Report of SCReAM — Data Link

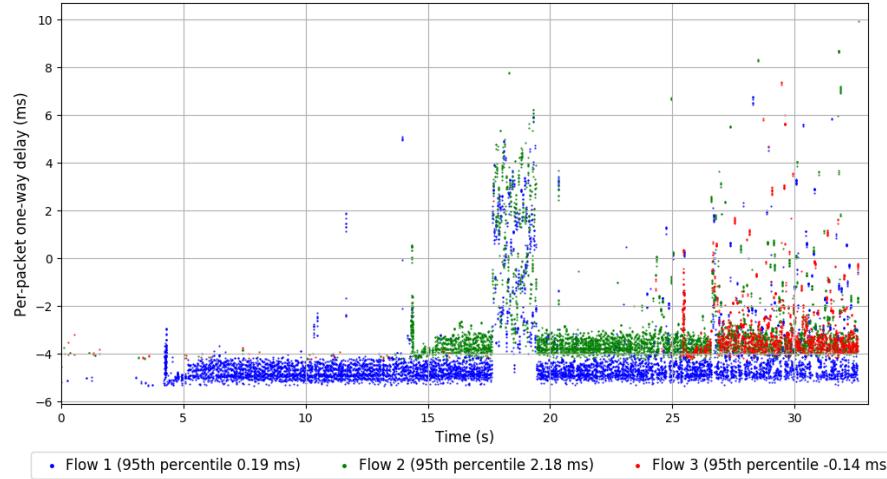
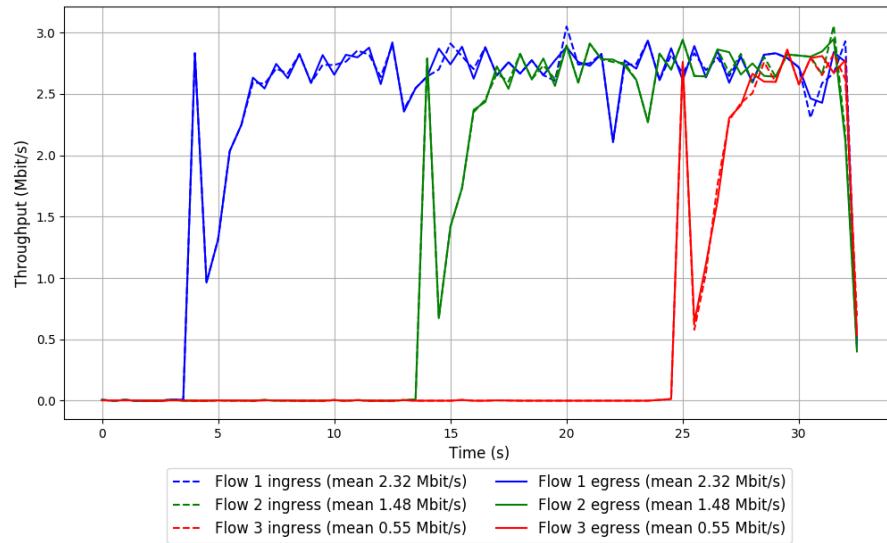


```
Run 1: Statistics of WebRTC media

Start at: 2017-12-20 08:04:12
End at: 2017-12-20 08:04:42
Local clock offset: 0.464 ms
Remote clock offset: -12.887 ms

# Below is generated by plot.py at 2017-12-20 11:43:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: 0.876 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 0.193 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: 2.178 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: -0.142 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

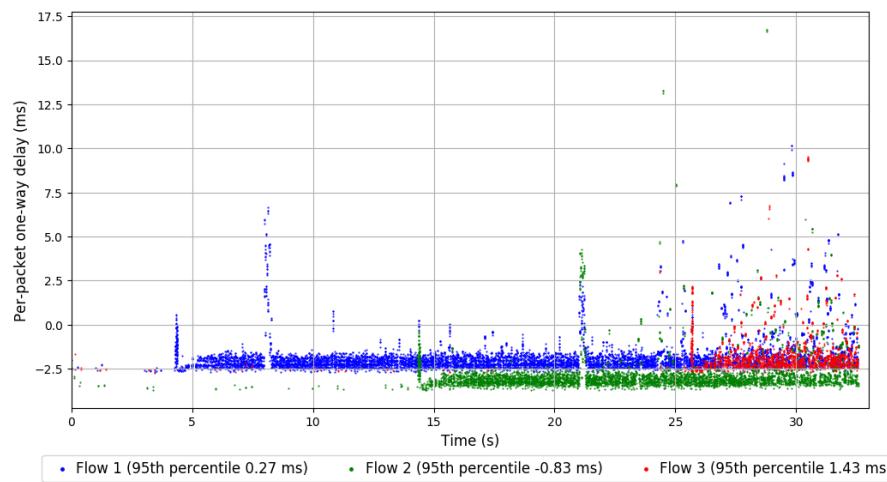
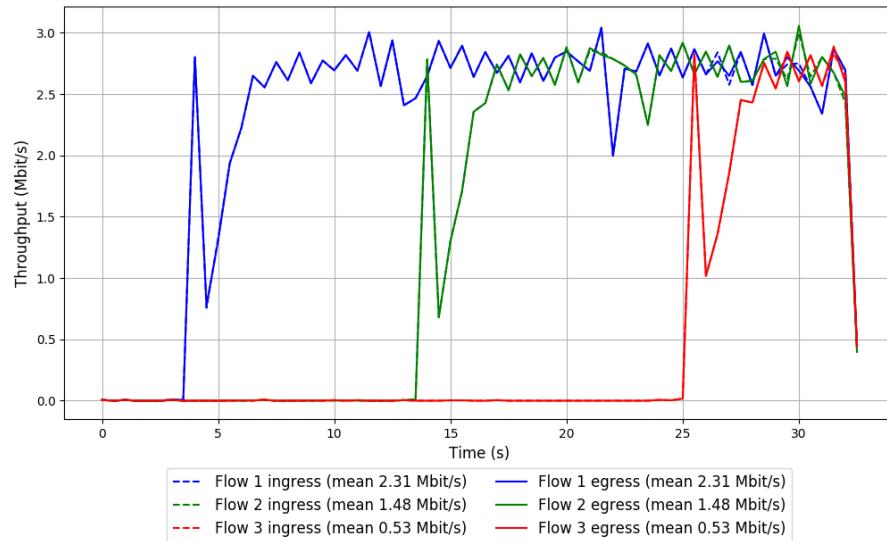


Run 2: Statistics of WebRTC media

```
Start at: 2017-12-20 08:22:57
End at: 2017-12-20 08:23:27
Local clock offset: 1.41 ms
Remote clock offset: -10.414 ms

# Below is generated by plot.py at 2017-12-20 11:43:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 0.092 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 0.270 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: -0.826 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 1.430 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

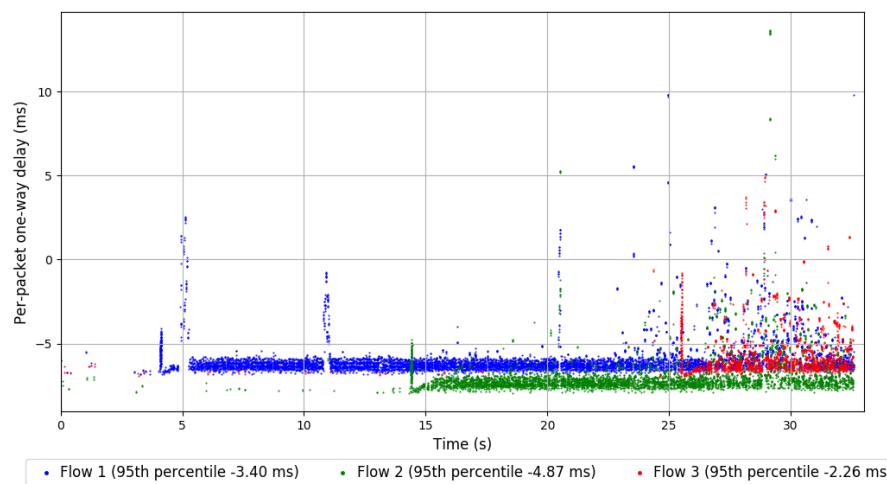
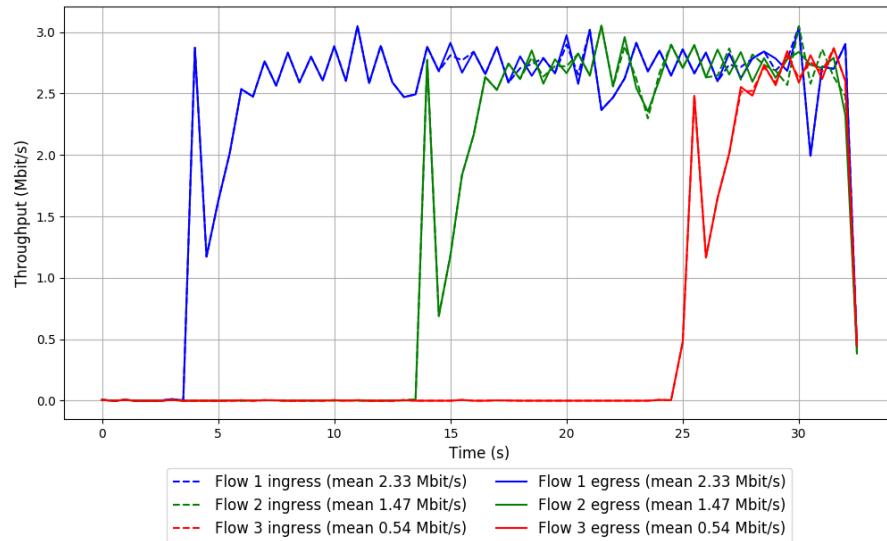


Run 3: Statistics of WebRTC media

```
Start at: 2017-12-20 08:40:58
End at: 2017-12-20 08:41:28
Local clock offset: 3.541 ms
Remote clock offset: -12.457 ms

# Below is generated by plot.py at 2017-12-20 11:43:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: -3.509 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: -3.402 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: -4.866 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: -2.264 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

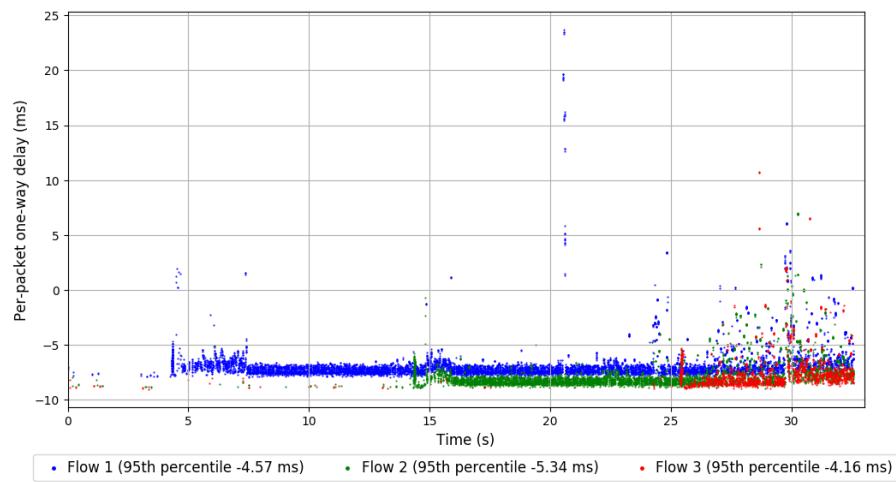
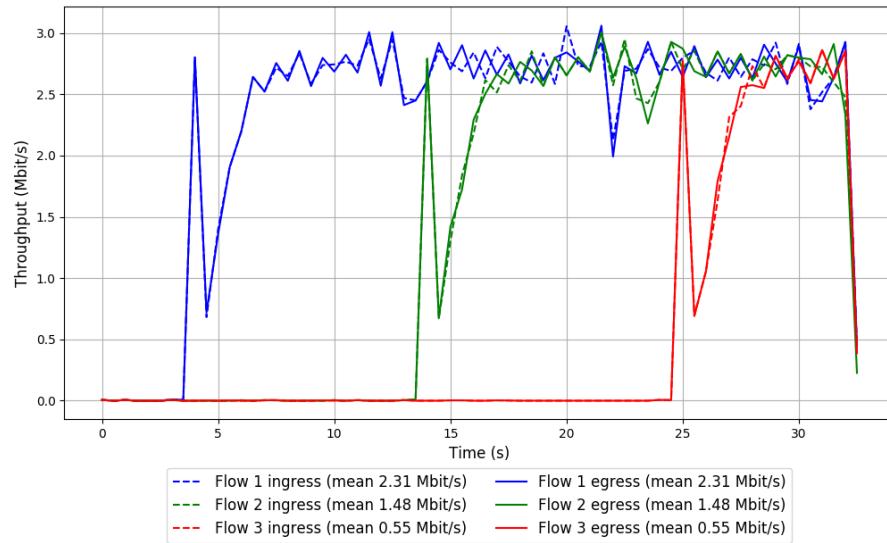


Run 4: Statistics of WebRTC media

```
Start at: 2017-12-20 08:59:12
End at: 2017-12-20 08:59:42
Local clock offset: 3.452 ms
Remote clock offset: -13.378 ms

# Below is generated by plot.py at 2017-12-20 11:43:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.33 Mbit/s
95th percentile per-packet one-way delay: -4.645 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: -4.567 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: -5.336 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: -4.156 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link

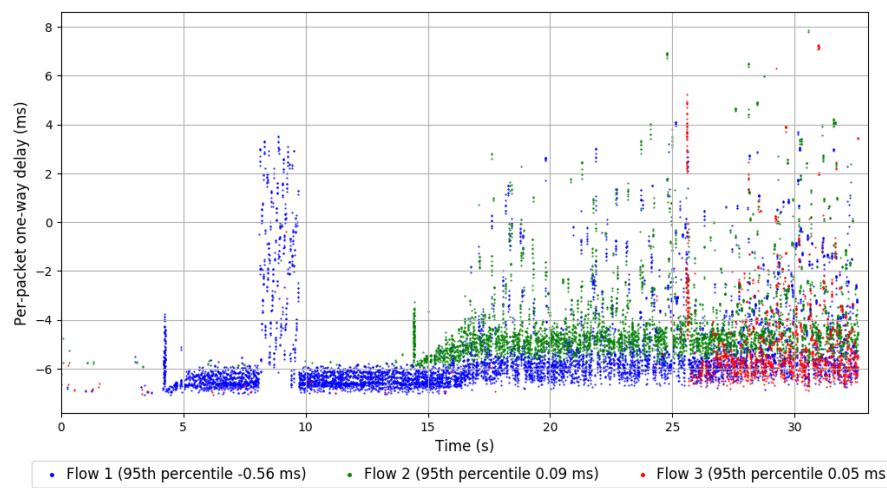
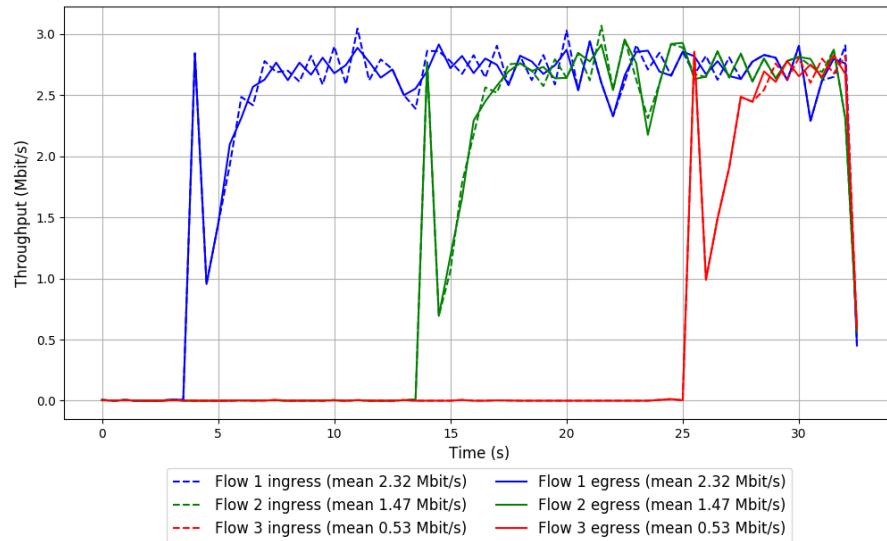


Run 5: Statistics of WebRTC media

```
Start at: 2017-12-20 09:18:29
End at: 2017-12-20 09:18:59
Local clock offset: 2.687 ms
Remote clock offset: -13.762 ms

# Below is generated by plot.py at 2017-12-20 11:43:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.32 Mbit/s
95th percentile per-packet one-way delay: -0.278 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: -0.555 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: 0.093 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 0.049 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

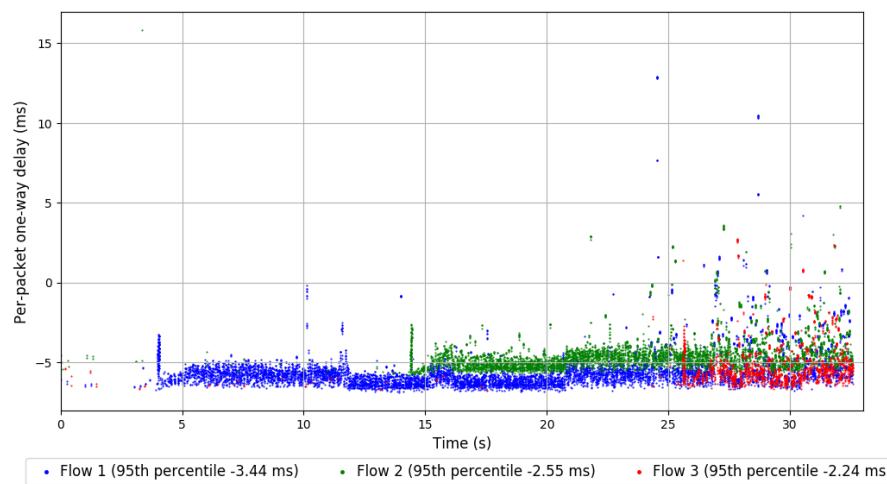
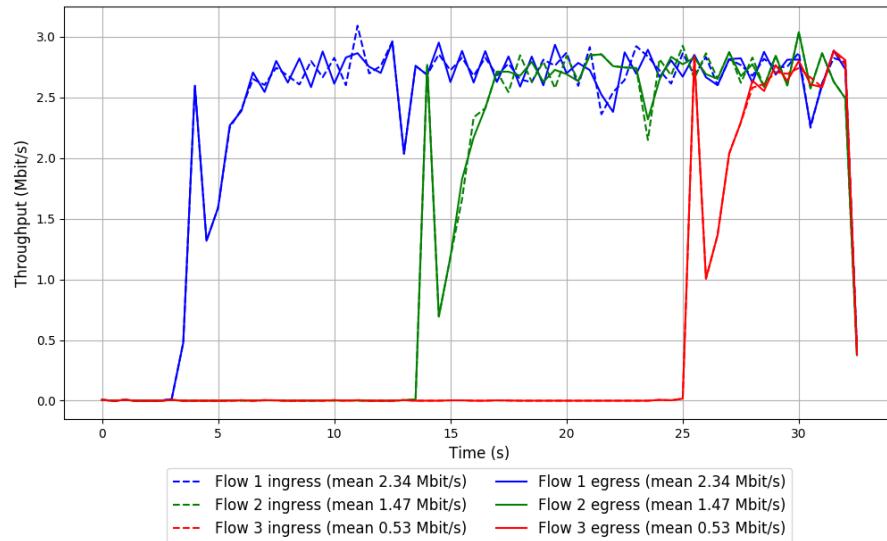


Run 6: Statistics of WebRTC media

```
Start at: 2017-12-20 09:37:12
End at: 2017-12-20 09:37:42
Local clock offset: 0.701 ms
Remote clock offset: -15.269 ms

# Below is generated by plot.py at 2017-12-20 11:43:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.33 Mbit/s
95th percentile per-packet one-way delay: -2.888 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: -3.436 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: -2.554 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: -2.242 ms
Loss rate: 0.00%
```

Run 6: Report of WebRTC media — Data Link

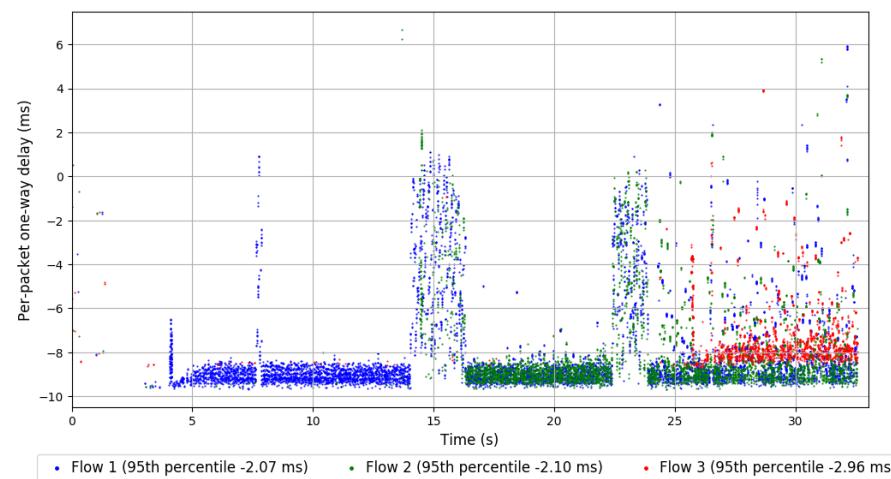
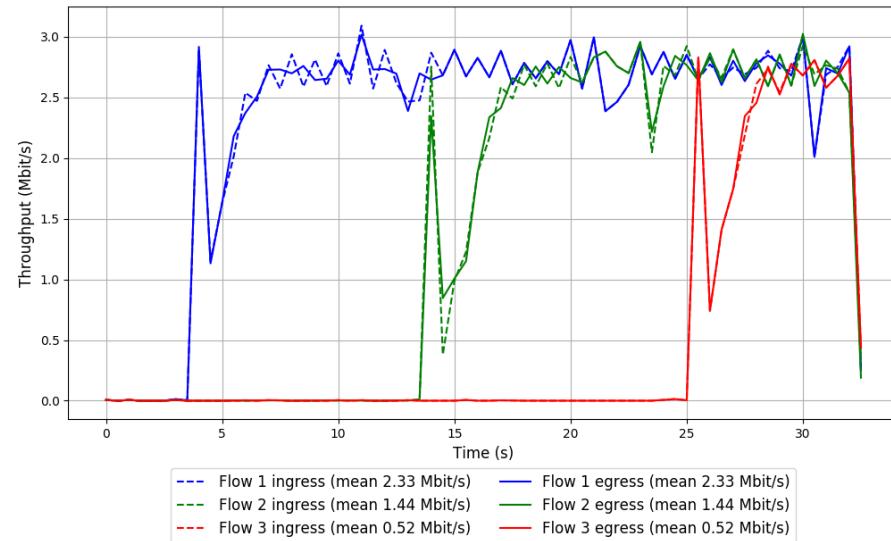


Run 7: Statistics of WebRTC media

```
Start at: 2017-12-20 09:55:51
End at: 2017-12-20 09:56:21
Local clock offset: 3.397 ms
Remote clock offset: -14.819 ms

# Below is generated by plot.py at 2017-12-20 11:43:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.28 Mbit/s
95th percentile per-packet one-way delay: -2.162 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: -2.066 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: -2.098 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: -2.960 ms
Loss rate: 0.00%
```

Run 7: Report of WebRTC media — Data Link

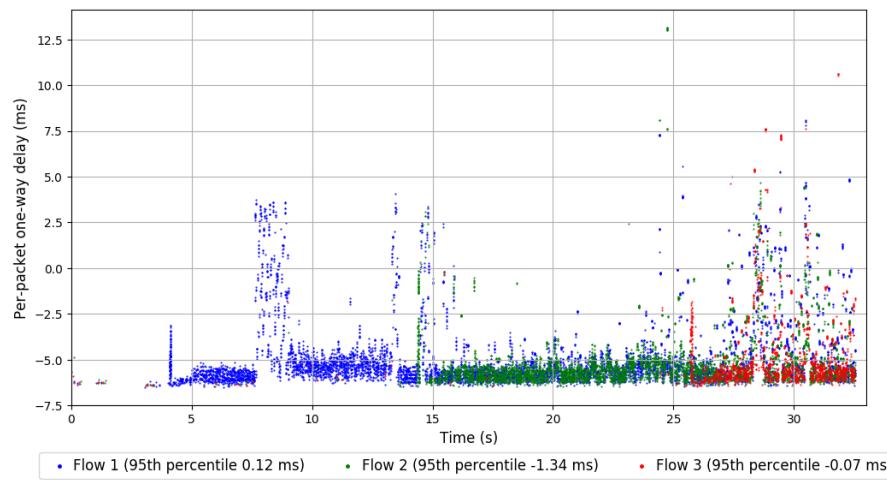
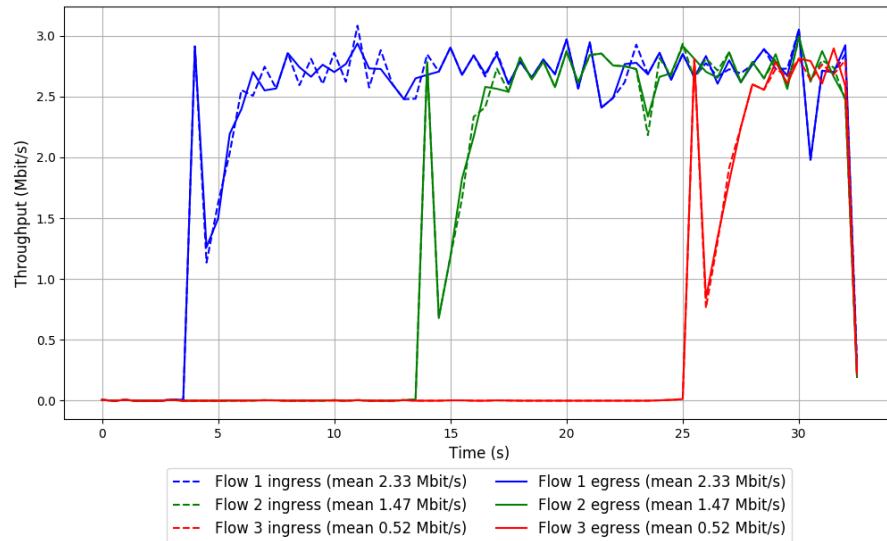


Run 8: Statistics of WebRTC media

```
Start at: 2017-12-20 10:14:47
End at: 2017-12-20 10:15:17
Local clock offset: 1.886 ms
Remote clock offset: -13.121 ms

# Below is generated by plot.py at 2017-12-20 11:43:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: -0.346 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 0.120 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: -1.345 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: -0.069 ms
Loss rate: 0.00%
```

Run 8: Report of WebRTC media — Data Link

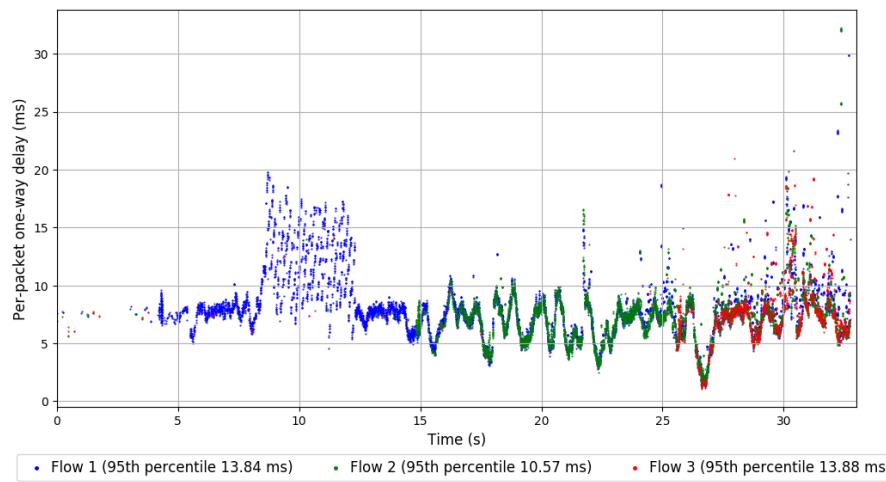
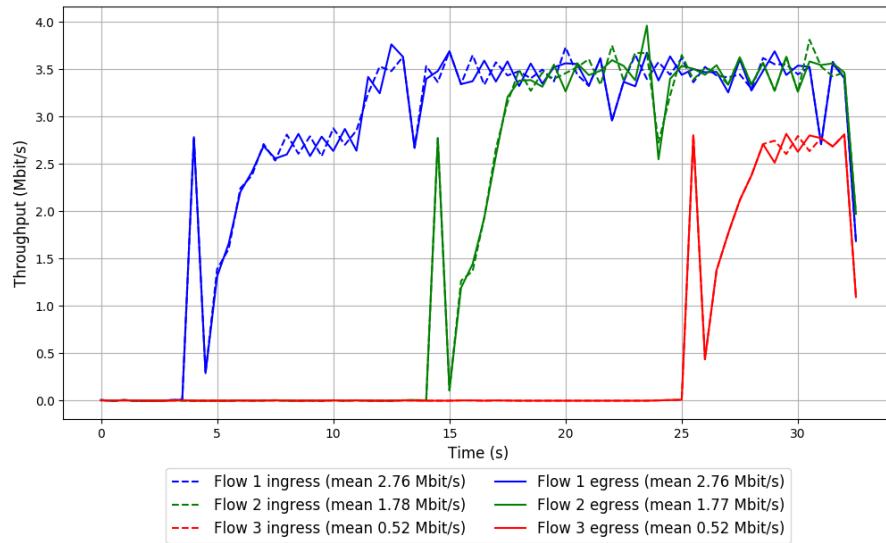


Run 9: Statistics of WebRTC media

```
Start at: 2017-12-20 10:33:23
End at: 2017-12-20 10:33:53
Local clock offset: 1.038 ms
Remote clock offset: -27.106 ms

# Below is generated by plot.py at 2017-12-20 11:43:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.03 Mbit/s
95th percentile per-packet one-way delay: 13.177 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 2.76 Mbit/s
95th percentile per-packet one-way delay: 13.841 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 1.77 Mbit/s
95th percentile per-packet one-way delay: 10.571 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 13.885 ms
Loss rate: 0.05%
```

Run 9: Report of WebRTC media — Data Link

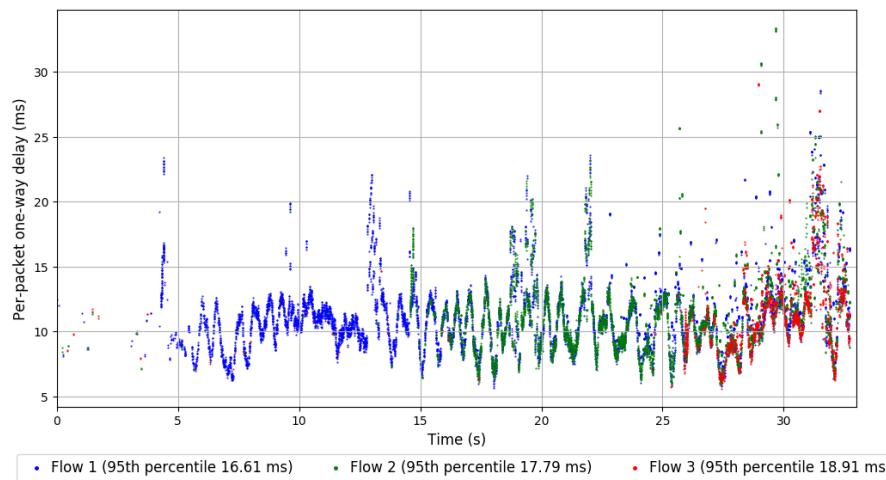
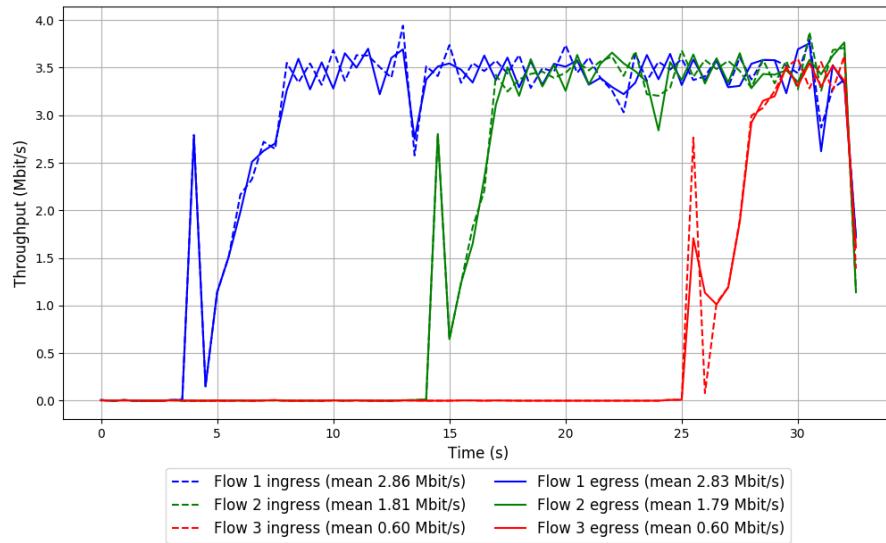


```
Run 10: Statistics of WebRTC media
```

```
Start at: 2017-12-20 10:52:18
End at: 2017-12-20 10:52:48
Local clock offset: -0.179 ms
Remote clock offset: -26.258 ms

# Below is generated by plot.py at 2017-12-20 11:43:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.20 Mbit/s
95th percentile per-packet one-way delay: 17.208 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 2.83 Mbit/s
95th percentile per-packet one-way delay: 16.614 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 17.787 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 18.911 ms
Loss rate: 0.40%
```

Run 10: Report of WebRTC media — Data Link

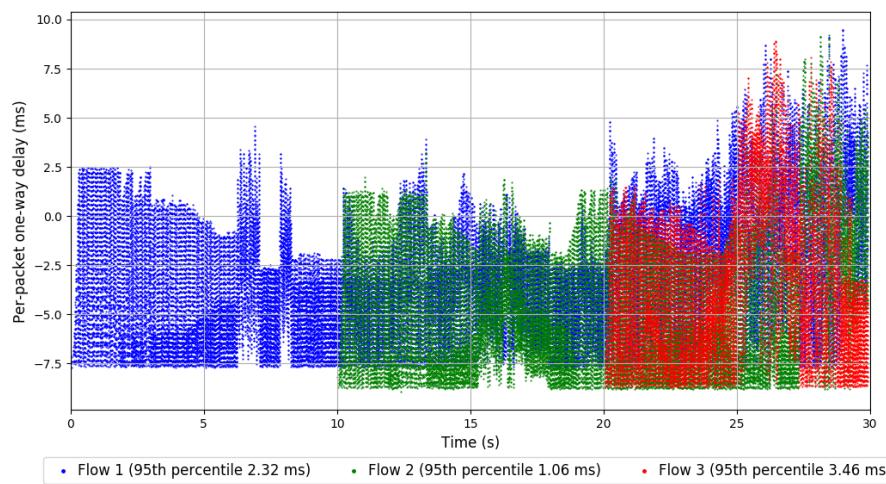
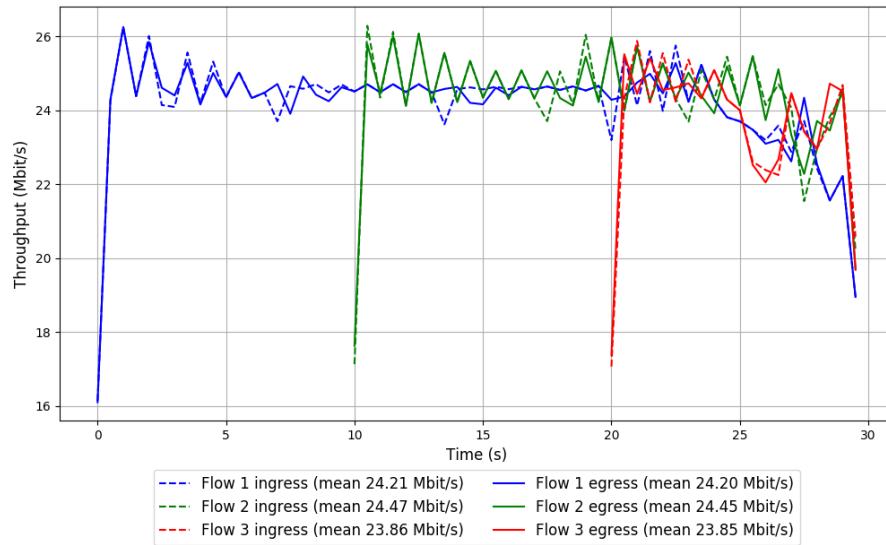


Run 1: Statistics of Sprout

```
Start at: 2017-12-20 08:10:44
End at: 2017-12-20 08:11:14
Local clock offset: 3.063 ms
Remote clock offset: -13.925 ms

# Below is generated by plot.py at 2017-12-20 11:43:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.35 Mbit/s
95th percentile per-packet one-way delay: 2.262 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.20 Mbit/s
95th percentile per-packet one-way delay: 2.316 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.45 Mbit/s
95th percentile per-packet one-way delay: 1.056 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 23.85 Mbit/s
95th percentile per-packet one-way delay: 3.465 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

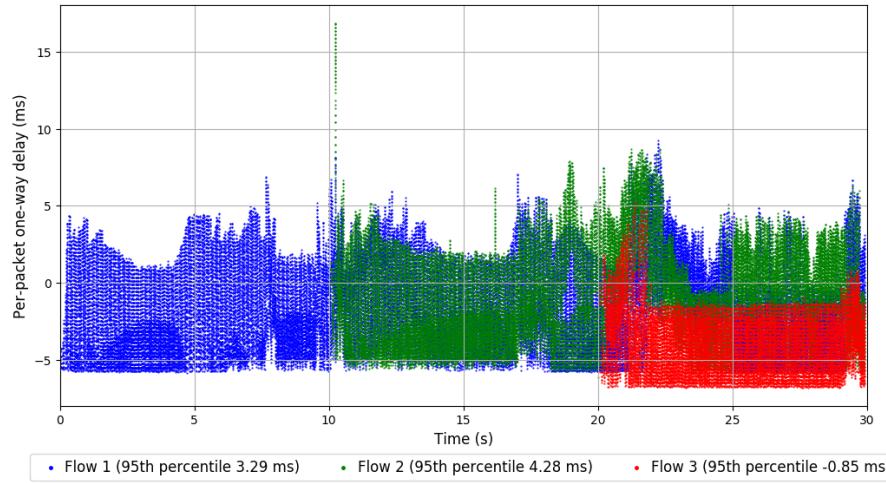
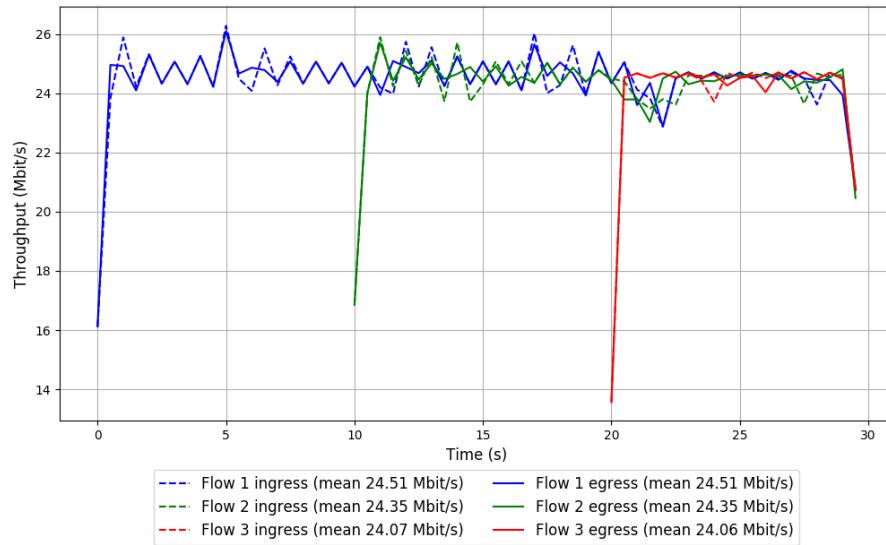


Run 2: Statistics of Sprout

```
Start at: 2017-12-20 08:28:56
End at: 2017-12-20 08:29:26
Local clock offset: 3.511 ms
Remote clock offset: -11.579 ms

# Below is generated by plot.py at 2017-12-20 11:43:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.65 Mbit/s
95th percentile per-packet one-way delay: 3.431 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.51 Mbit/s
95th percentile per-packet one-way delay: 3.289 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.35 Mbit/s
95th percentile per-packet one-way delay: 4.283 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.06 Mbit/s
95th percentile per-packet one-way delay: -0.855 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

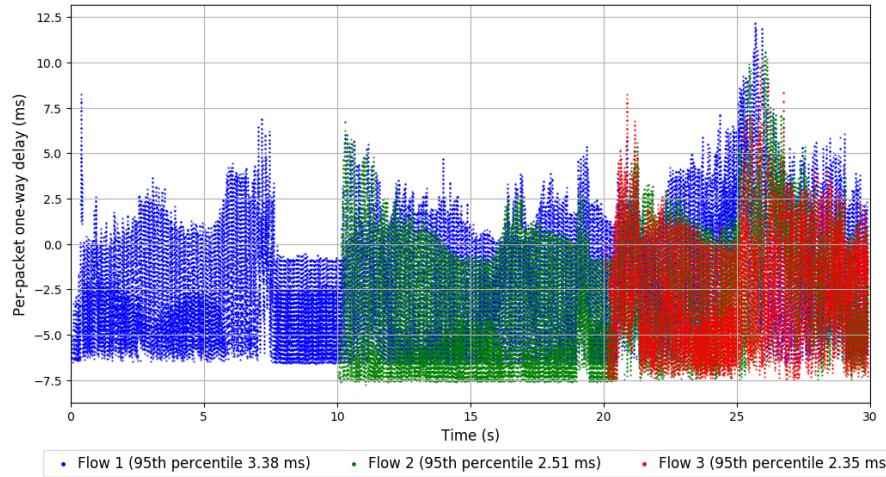
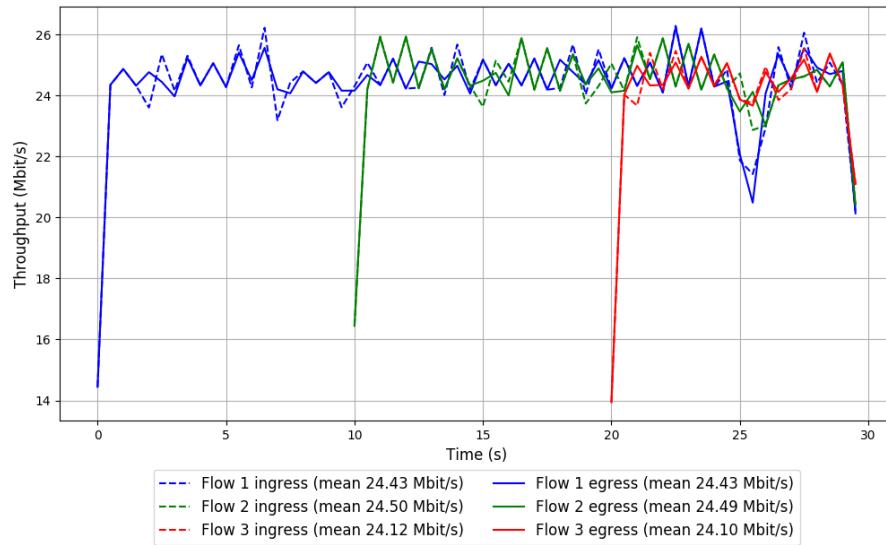


Run 3: Statistics of Sprout

```
Start at: 2017-12-20 08:46:58
End at: 2017-12-20 08:47:28
Local clock offset: 3.621 ms
Remote clock offset: -12.206 ms

# Below is generated by plot.py at 2017-12-20 11:43:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.69 Mbit/s
95th percentile per-packet one-way delay: 2.994 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.43 Mbit/s
95th percentile per-packet one-way delay: 3.381 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.49 Mbit/s
95th percentile per-packet one-way delay: 2.510 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.10 Mbit/s
95th percentile per-packet one-way delay: 2.352 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

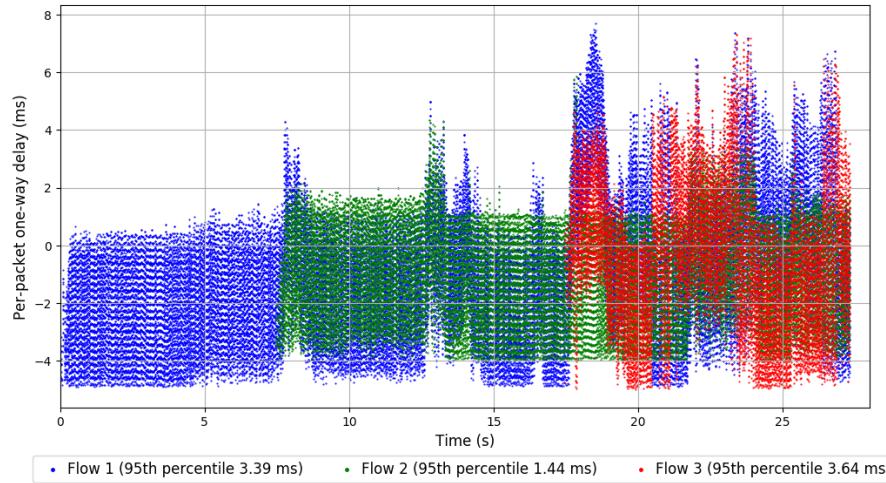
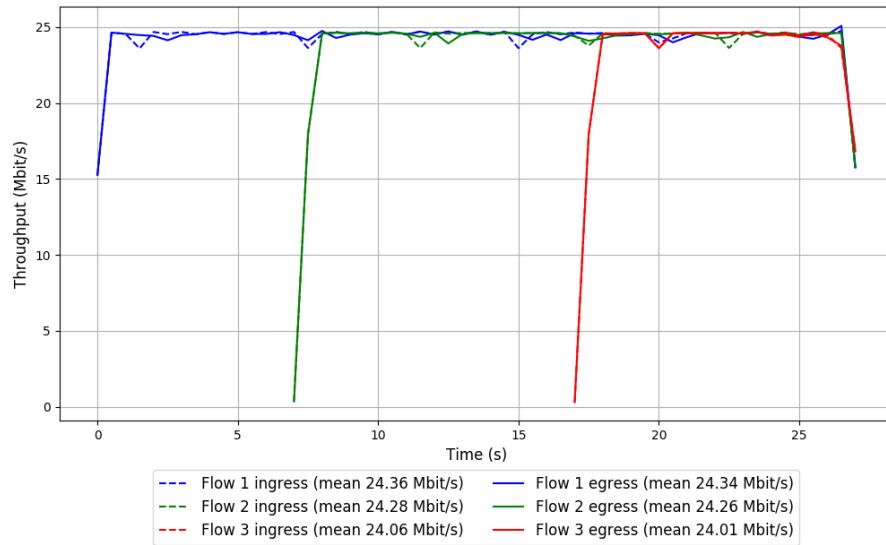


Run 4: Statistics of Sprout

```
Start at: 2017-12-20 09:05:42
End at: 2017-12-20 09:06:12
Local clock offset: 1.078 ms
Remote clock offset: -12.505 ms

# Below is generated by plot.py at 2017-12-20 11:43:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 50.69 Mbit/s
95th percentile per-packet one-way delay: 2.923 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 24.34 Mbit/s
95th percentile per-packet one-way delay: 3.386 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 24.26 Mbit/s
95th percentile per-packet one-way delay: 1.440 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 24.01 Mbit/s
95th percentile per-packet one-way delay: 3.641 ms
Loss rate: 0.10%
```

Run 4: Report of Sprout — Data Link

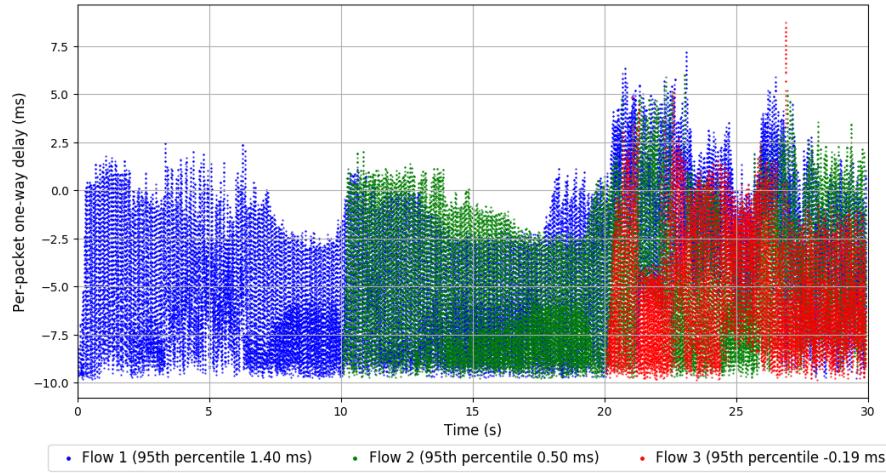
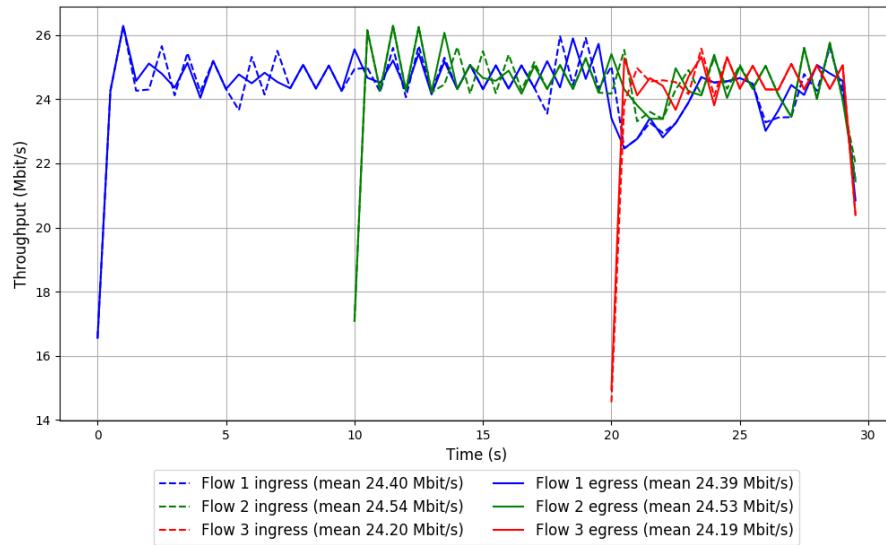


Run 5: Statistics of Sprout

```
Start at: 2017-12-20 09:24:53
End at: 2017-12-20 09:25:23
Local clock offset: 4.071 ms
Remote clock offset: -15.662 ms

# Below is generated by plot.py at 2017-12-20 11:43:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.69 Mbit/s
95th percentile per-packet one-way delay: 0.849 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 24.39 Mbit/s
95th percentile per-packet one-way delay: 1.397 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.53 Mbit/s
95th percentile per-packet one-way delay: 0.498 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 24.19 Mbit/s
95th percentile per-packet one-way delay: -0.189 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

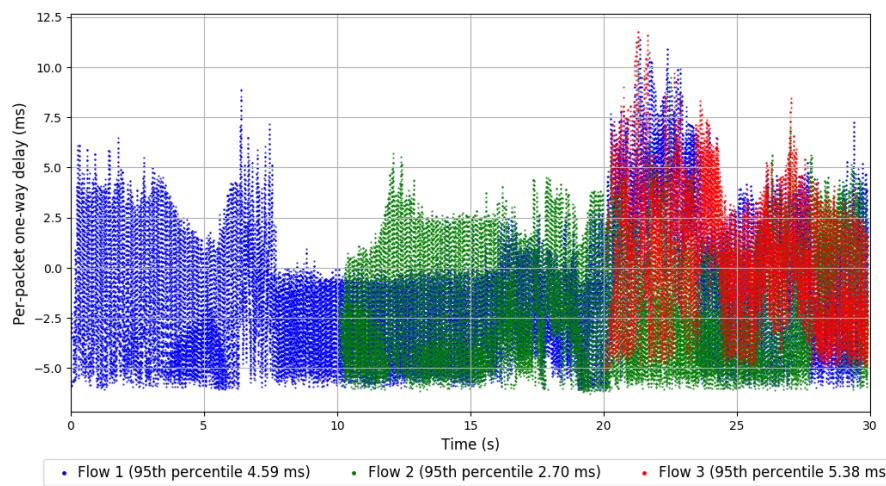
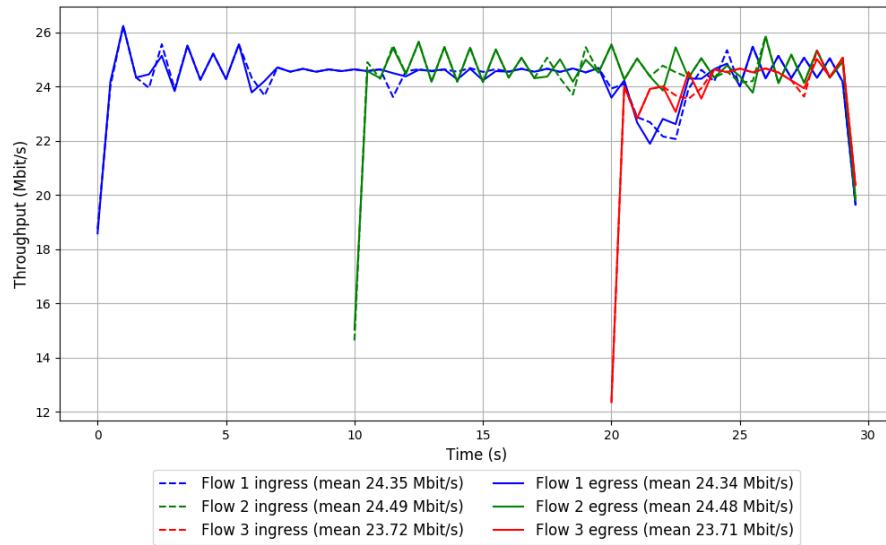


Run 6: Statistics of Sprout

```
Start at: 2017-12-20 09:43:32
End at: 2017-12-20 09:44:02
Local clock offset: 1.005 ms
Remote clock offset: -14.241 ms

# Below is generated by plot.py at 2017-12-20 11:43:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.46 Mbit/s
95th percentile per-packet one-way delay: 4.214 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.34 Mbit/s
95th percentile per-packet one-way delay: 4.591 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.48 Mbit/s
95th percentile per-packet one-way delay: 2.702 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 23.71 Mbit/s
95th percentile per-packet one-way delay: 5.385 ms
Loss rate: 0.00%
```

Run 6: Report of Sprout — Data Link

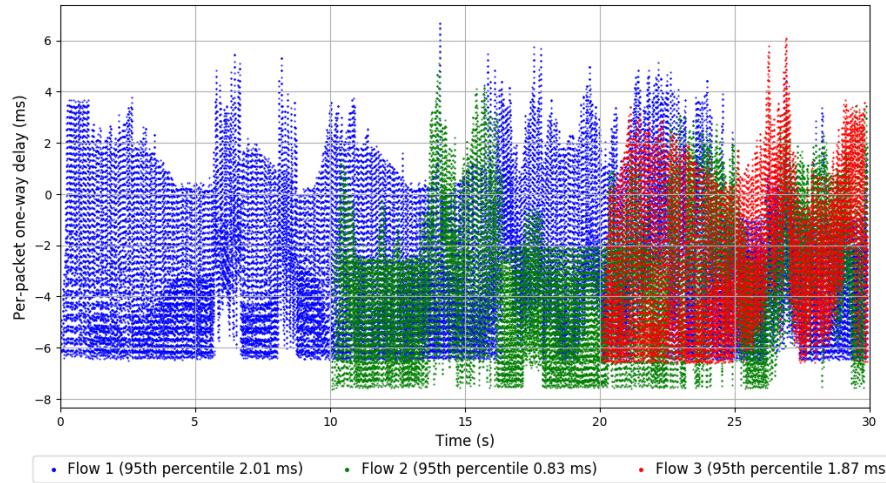
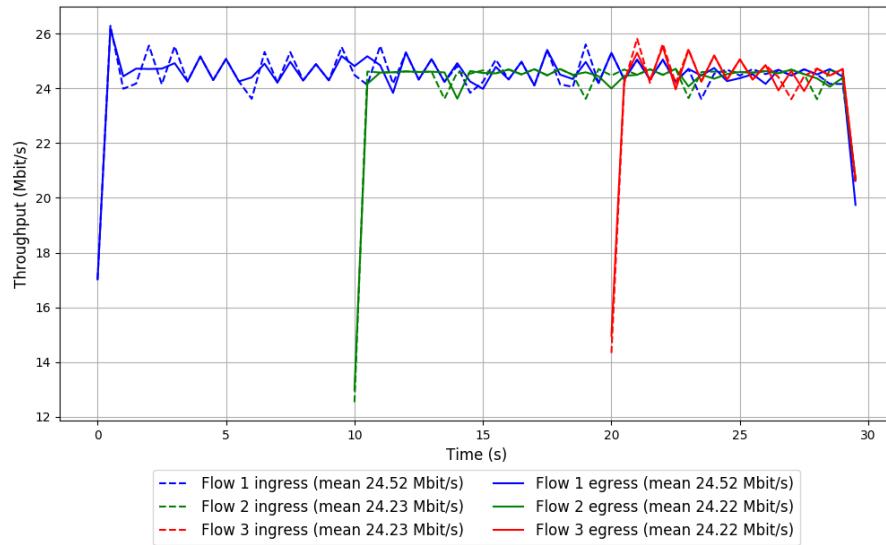


Run 7: Statistics of Sprout

```
Start at: 2017-12-20 10:02:10
End at: 2017-12-20 10:02:40
Local clock offset: 3.148 ms
Remote clock offset: -12.845 ms

# Below is generated by plot.py at 2017-12-20 11:43:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.63 Mbit/s
95th percentile per-packet one-way delay: 1.643 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.52 Mbit/s
95th percentile per-packet one-way delay: 2.006 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.22 Mbit/s
95th percentile per-packet one-way delay: 0.827 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.22 Mbit/s
95th percentile per-packet one-way delay: 1.867 ms
Loss rate: 0.00%
```

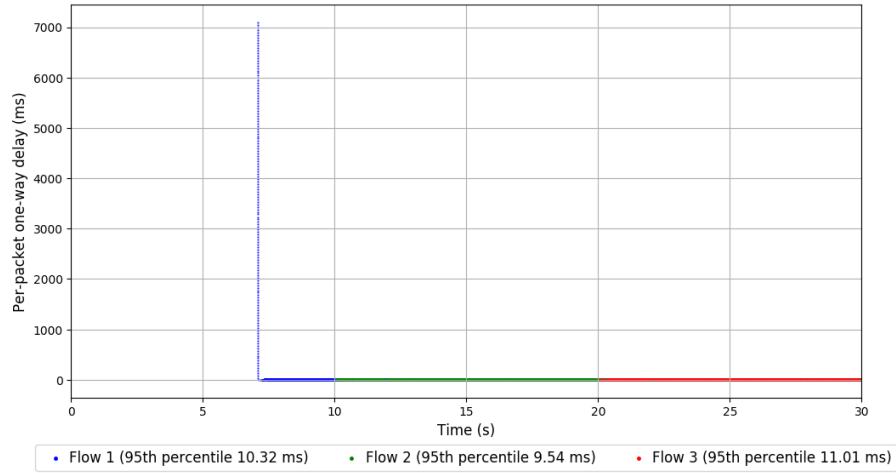
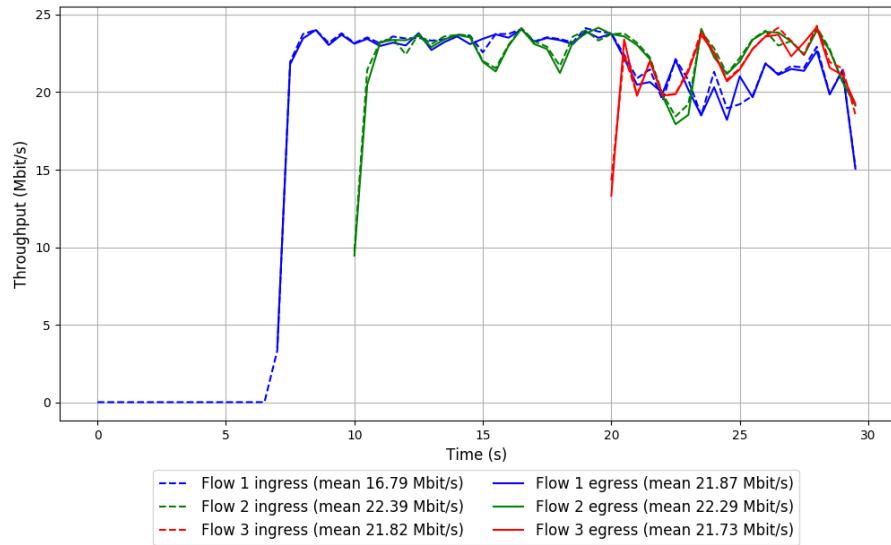
Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-12-20 10:20:46
End at: 2017-12-20 10:21:16
Local clock offset: 1.878 ms
Remote clock offset: -13.076 ms

Run 8: Report of Sprout — Data Link

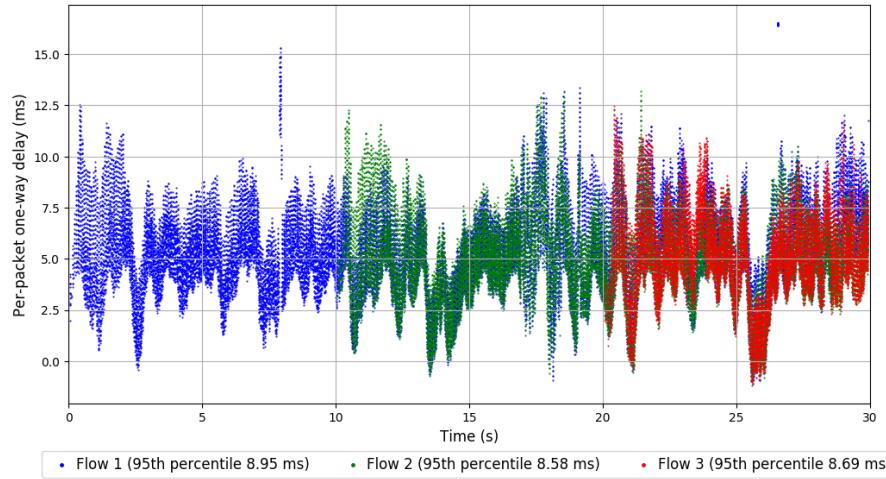
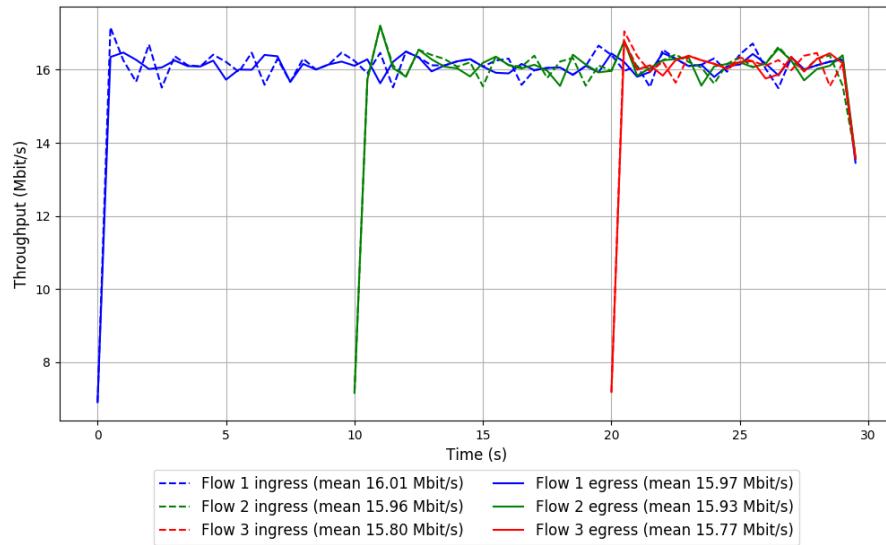


Run 9: Statistics of Sprout

```
Start at: 2017-12-20 10:39:50
End at: 2017-12-20 10:40:20
Local clock offset: 1.661 ms
Remote clock offset: -30.135 ms

# Below is generated by plot.py at 2017-12-20 11:43:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.77 Mbit/s
95th percentile per-packet one-way delay: 8.783 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 15.97 Mbit/s
95th percentile per-packet one-way delay: 8.948 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 15.93 Mbit/s
95th percentile per-packet one-way delay: 8.577 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 15.77 Mbit/s
95th percentile per-packet one-way delay: 8.690 ms
Loss rate: 0.14%
```

Run 9: Report of Sprout — Data Link

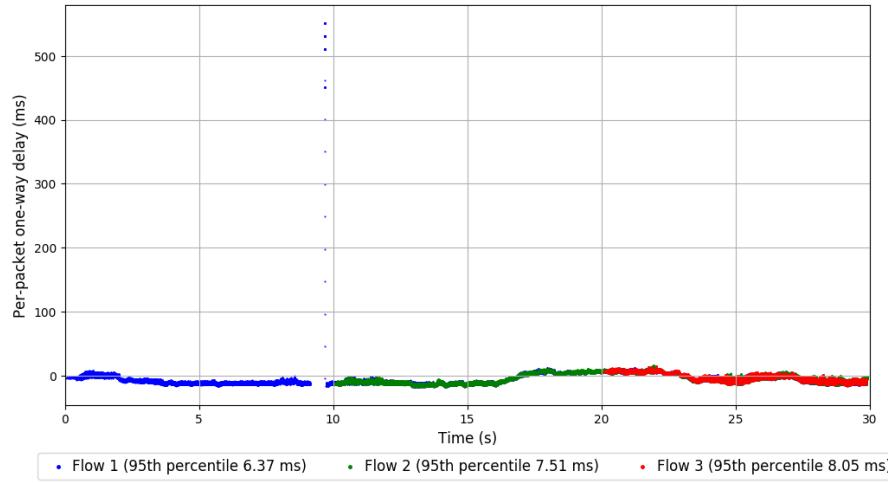
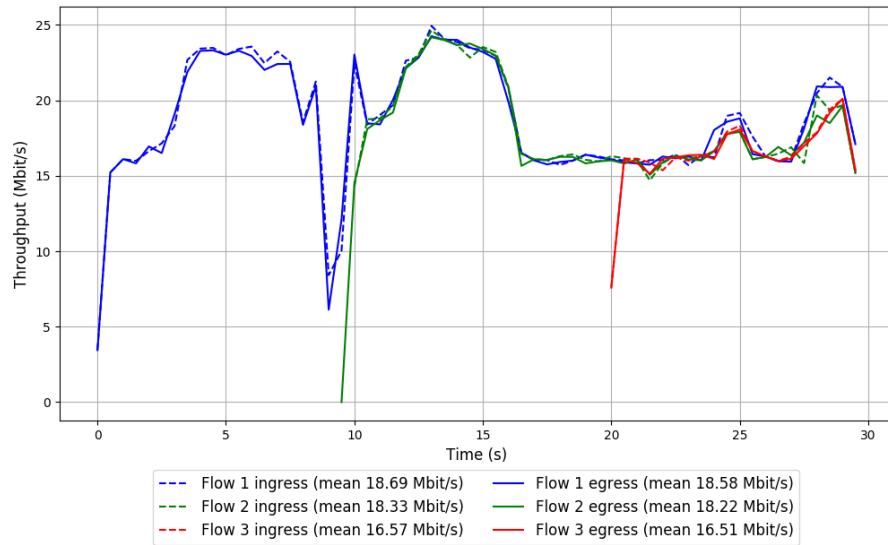


Run 10: Statistics of Sprout

```
Start at: 2017-12-20 10:58:22
End at: 2017-12-20 10:58:52
Local clock offset: 2.649 ms
Remote clock offset: -28.883 ms

# Below is generated by plot.py at 2017-12-20 11:43:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.15 Mbit/s
95th percentile per-packet one-way delay: 7.107 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 18.58 Mbit/s
95th percentile per-packet one-way delay: 6.370 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 18.22 Mbit/s
95th percentile per-packet one-way delay: 7.514 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 16.51 Mbit/s
95th percentile per-packet one-way delay: 8.054 ms
Loss rate: 0.44%
```

Run 10: Report of Sprout — Data Link

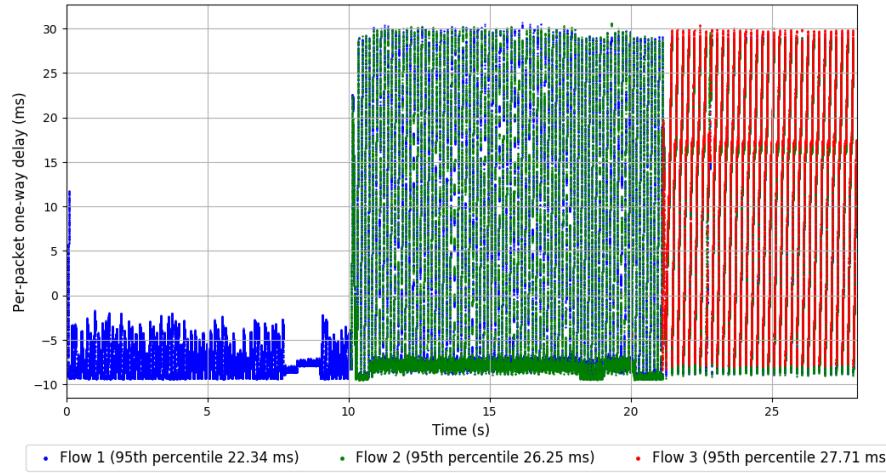
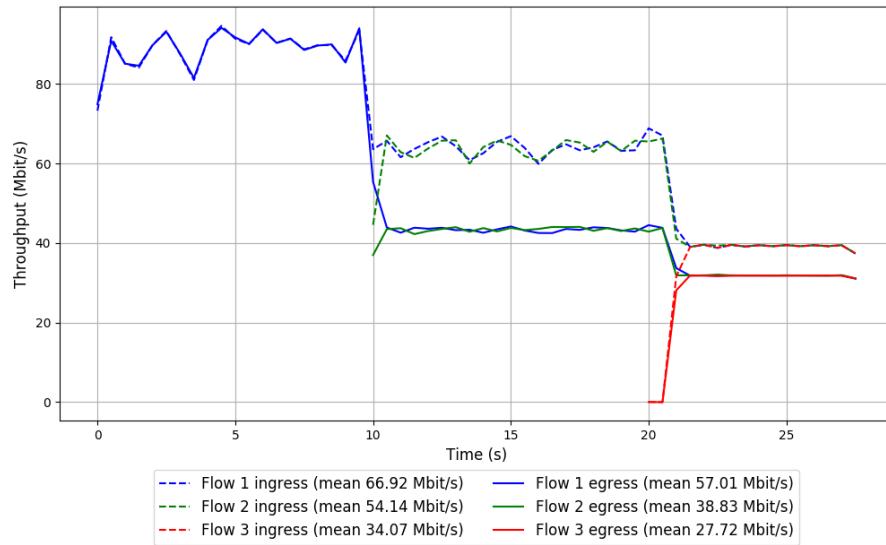


Run 1: Statistics of TaoVA-100x

```
Start at: 2017-12-20 08:19:15
End at: 2017-12-20 08:19:45
Local clock offset: 5.044 ms
Remote clock offset: -12.794 ms

# Below is generated by plot.py at 2017-12-20 11:45:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.80 Mbit/s
95th percentile per-packet one-way delay: 24.943 ms
Loss rate: 19.25%
-- Flow 1:
Average throughput: 57.01 Mbit/s
95th percentile per-packet one-way delay: 22.342 ms
Loss rate: 14.73%
-- Flow 2:
Average throughput: 38.83 Mbit/s
95th percentile per-packet one-way delay: 26.247 ms
Loss rate: 28.19%
-- Flow 3:
Average throughput: 27.72 Mbit/s
95th percentile per-packet one-way delay: 27.711 ms
Loss rate: 18.42%
```

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

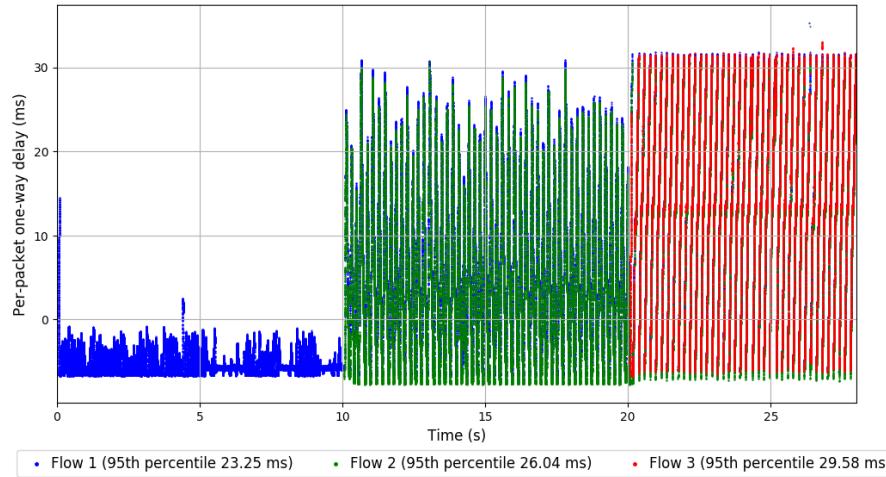
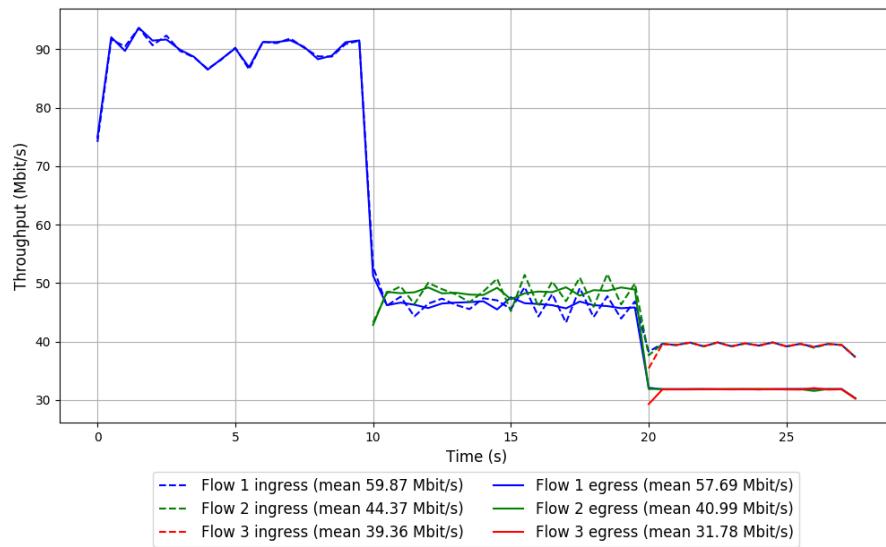


Run 2: Statistics of TaoVA-100x

```
Start at: 2017-12-20 08:37:18
End at: 2017-12-20 08:37:48
Local clock offset: 3.717 ms
Remote clock offset: -12.43 ms

# Below is generated by plot.py at 2017-12-20 11:45:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.03 Mbit/s
95th percentile per-packet one-way delay: 25.591 ms
Loss rate: 6.49%
-- Flow 1:
Average throughput: 57.69 Mbit/s
95th percentile per-packet one-way delay: 23.250 ms
Loss rate: 3.60%
-- Flow 2:
Average throughput: 40.99 Mbit/s
95th percentile per-packet one-way delay: 26.035 ms
Loss rate: 7.56%
-- Flow 3:
Average throughput: 31.78 Mbit/s
95th percentile per-packet one-way delay: 29.583 ms
Loss rate: 19.22%
```

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

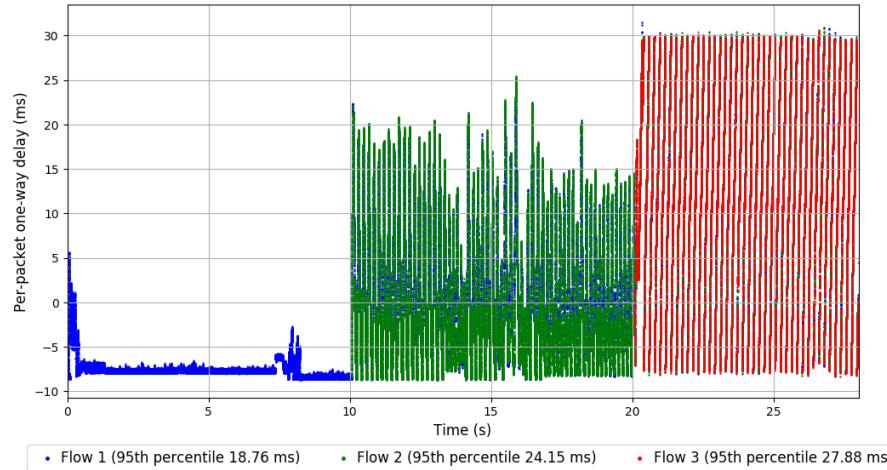
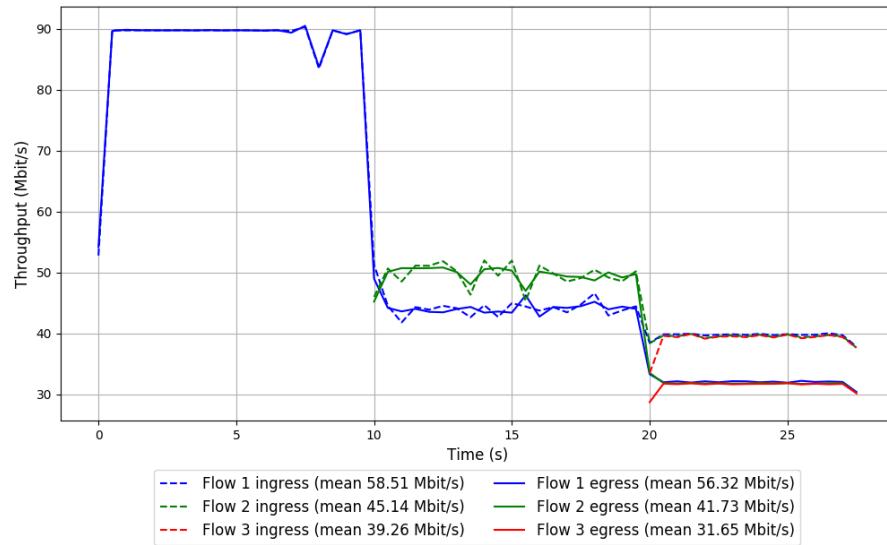


Run 3: Statistics of TaoVA-100x

```
Start at: 2017-12-20 08:55:21
End at: 2017-12-20 08:55:51
Local clock offset: 4.75 ms
Remote clock offset: -11.928 ms

# Below is generated by plot.py at 2017-12-20 11:45:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.09 Mbit/s
95th percentile per-packet one-way delay: 23.263 ms
Loss rate: 6.61%
-- Flow 1:
Average throughput: 56.32 Mbit/s
95th percentile per-packet one-way delay: 18.764 ms
Loss rate: 3.71%
-- Flow 2:
Average throughput: 41.73 Mbit/s
95th percentile per-packet one-way delay: 24.152 ms
Loss rate: 7.51%
-- Flow 3:
Average throughput: 31.65 Mbit/s
95th percentile per-packet one-way delay: 27.884 ms
Loss rate: 19.44%
```

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

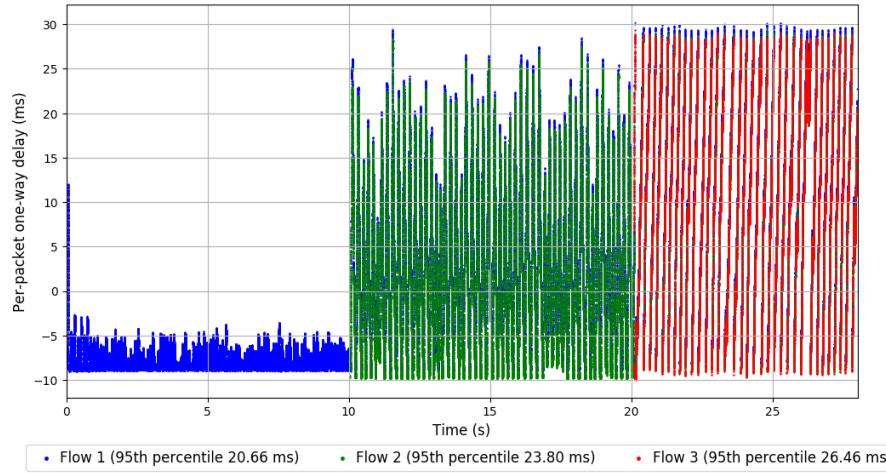
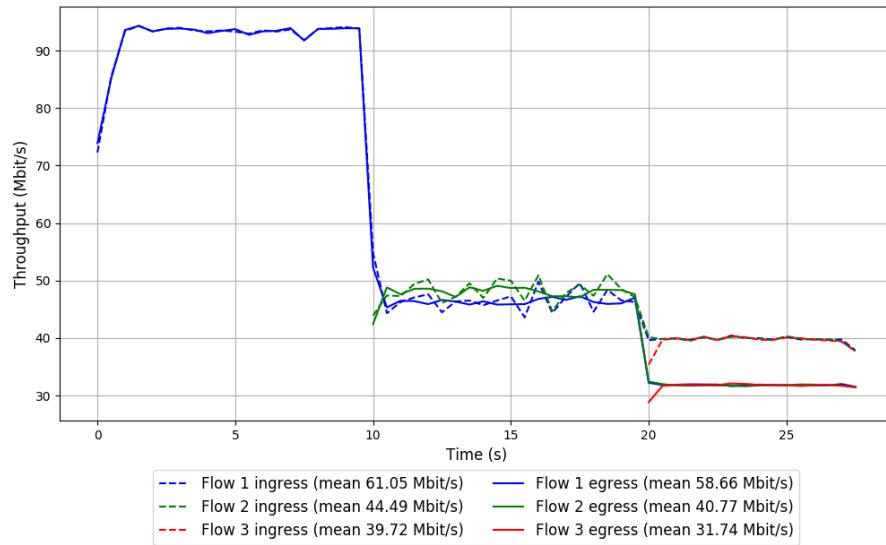


Run 4: Statistics of TaoVA-100x

```
Start at: 2017-12-20 09:14:36
End at: 2017-12-20 09:15:06
Local clock offset: 4.688 ms
Remote clock offset: -14.629 ms

# Below is generated by plot.py at 2017-12-20 11:45:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.89 Mbit/s
95th percentile per-packet one-way delay: 23.075 ms
Loss rate: 6.85%
-- Flow 1:
Average throughput: 58.66 Mbit/s
95th percentile per-packet one-way delay: 20.658 ms
Loss rate: 3.82%
-- Flow 2:
Average throughput: 40.77 Mbit/s
95th percentile per-packet one-way delay: 23.802 ms
Loss rate: 8.22%
-- Flow 3:
Average throughput: 31.74 Mbit/s
95th percentile per-packet one-way delay: 26.463 ms
Loss rate: 19.80%
```

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

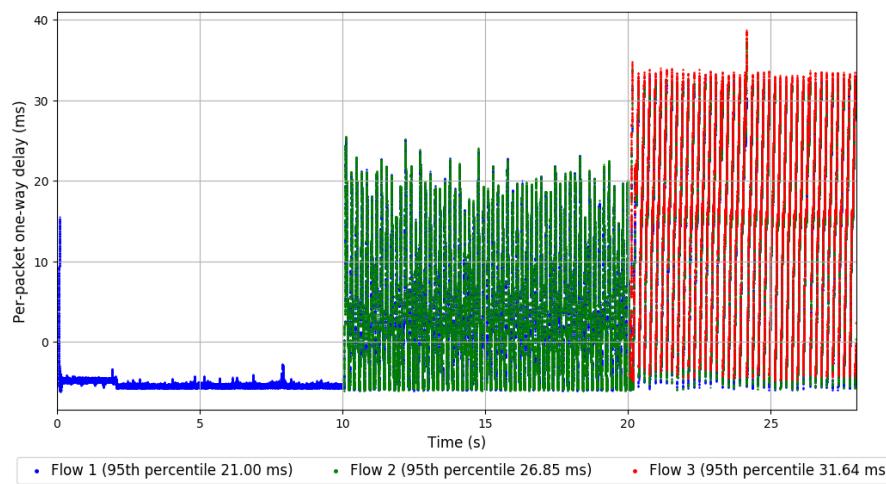
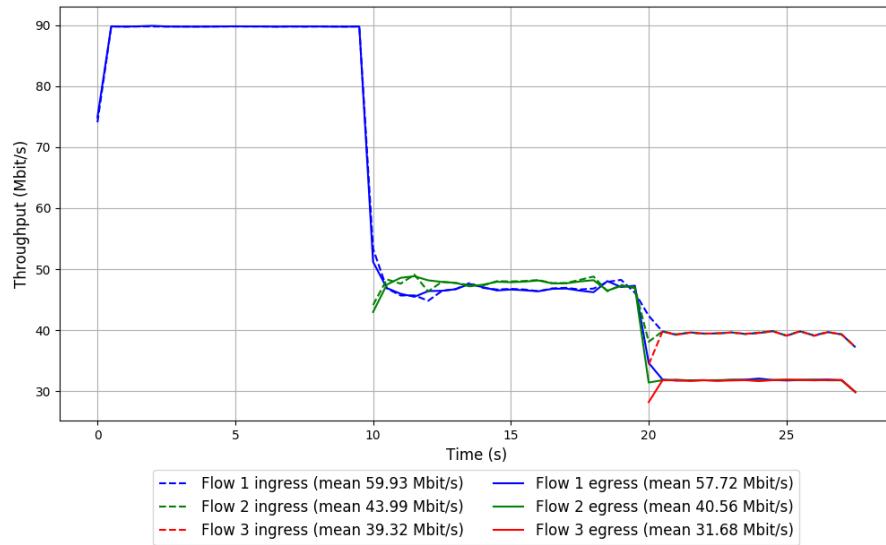


Run 5: Statistics of TaoVA-100x

```
Start at: 2017-12-20 09:33:18
End at: 2017-12-20 09:33:48
Local clock offset: 1.432 ms
Remote clock offset: -14.451 ms

# Below is generated by plot.py at 2017-12-20 11:46:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.75 Mbit/s
95th percentile per-packet one-way delay: 26.084 ms
Loss rate: 6.61%
-- Flow 1:
Average throughput: 57.72 Mbit/s
95th percentile per-packet one-way delay: 20.999 ms
Loss rate: 3.67%
-- Flow 2:
Average throughput: 40.56 Mbit/s
95th percentile per-packet one-way delay: 26.847 ms
Loss rate: 7.75%
-- Flow 3:
Average throughput: 31.68 Mbit/s
95th percentile per-packet one-way delay: 31.642 ms
Loss rate: 19.44%
```

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

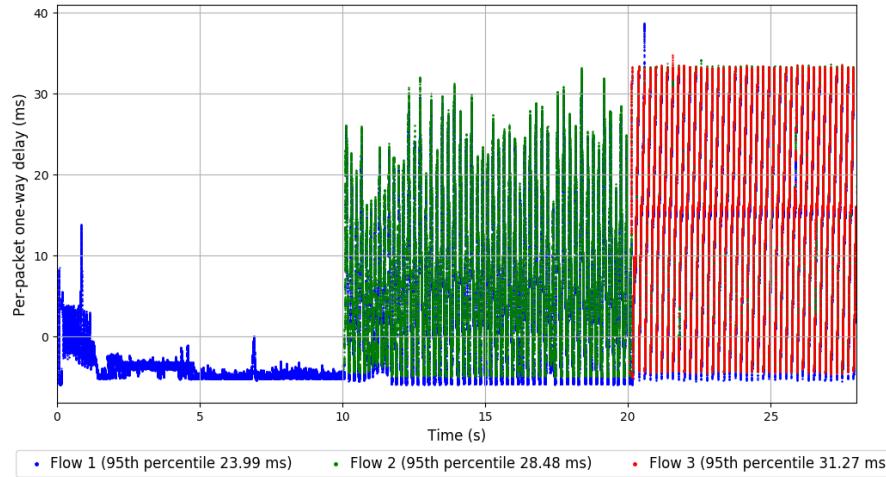
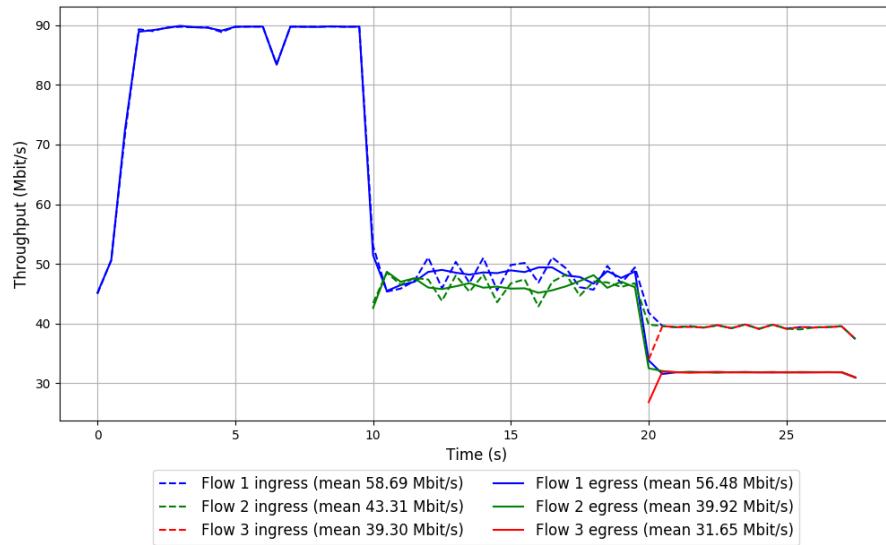


Run 6: Statistics of TaoVA-100x

```
Start at: 2017-12-20 09:51:57
End at: 2017-12-20 09:52:27
Local clock offset: 0.371 ms
Remote clock offset: -14.499 ms

# Below is generated by plot.py at 2017-12-20 11:46:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.11 Mbit/s
95th percentile per-packet one-way delay: 27.145 ms
Loss rate: 6.62%
-- Flow 1:
Average throughput: 56.48 Mbit/s
95th percentile per-packet one-way delay: 23.989 ms
Loss rate: 3.70%
-- Flow 2:
Average throughput: 39.92 Mbit/s
95th percentile per-packet one-way delay: 28.478 ms
Loss rate: 7.72%
-- Flow 3:
Average throughput: 31.65 Mbit/s
95th percentile per-packet one-way delay: 31.266 ms
Loss rate: 19.25%
```

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

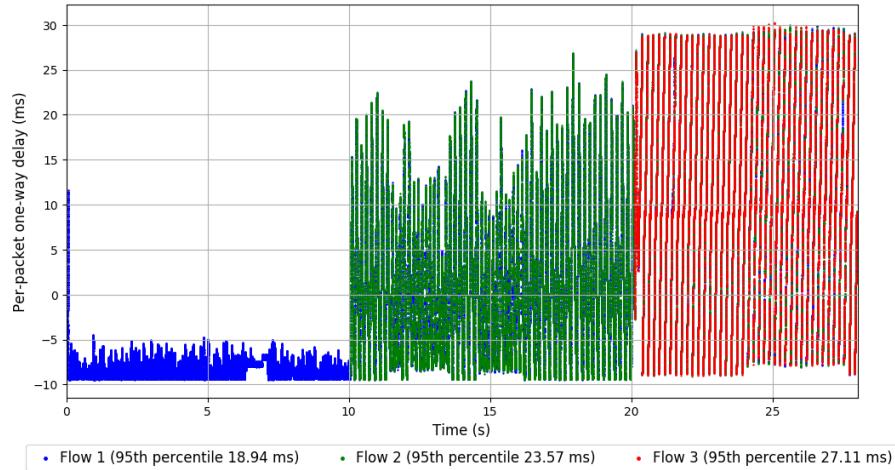
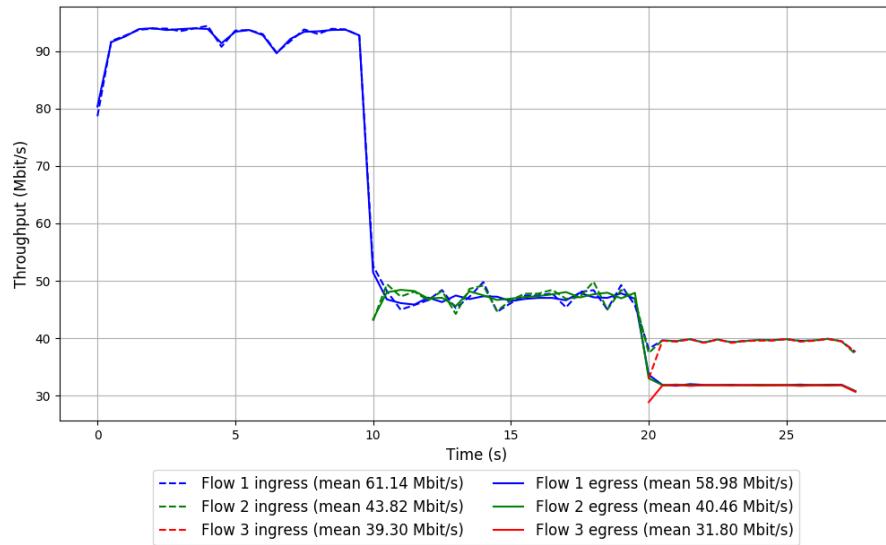


Run 7: Statistics of TaoVA-100x

```
Start at: 2017-12-20 10:10:43
End at: 2017-12-20 10:11:13
Local clock offset: 2.855 ms
Remote clock offset: -15.101 ms

# Below is generated by plot.py at 2017-12-20 11:46:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.97 Mbit/s
95th percentile per-packet one-way delay: 22.515 ms
Loss rate: 6.37%
-- Flow 1:
Average throughput: 58.98 Mbit/s
95th percentile per-packet one-way delay: 18.939 ms
Loss rate: 3.49%
-- Flow 2:
Average throughput: 40.46 Mbit/s
95th percentile per-packet one-way delay: 23.575 ms
Loss rate: 7.57%
-- Flow 3:
Average throughput: 31.80 Mbit/s
95th percentile per-packet one-way delay: 27.112 ms
Loss rate: 19.18%
```

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

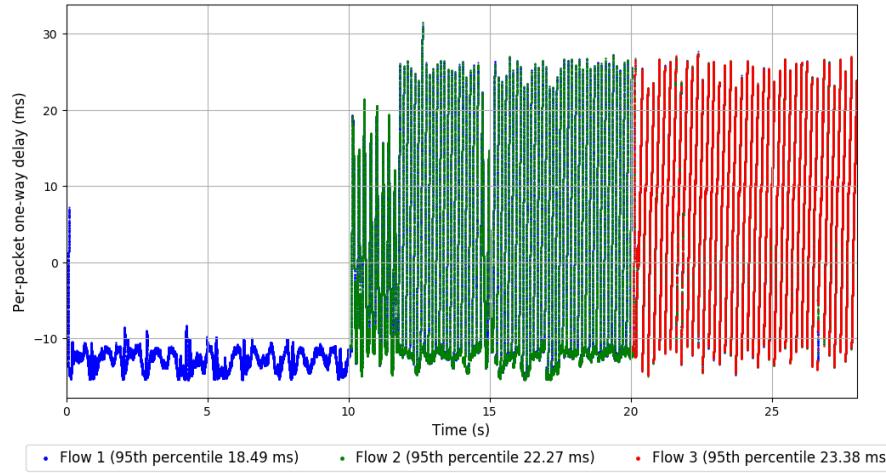
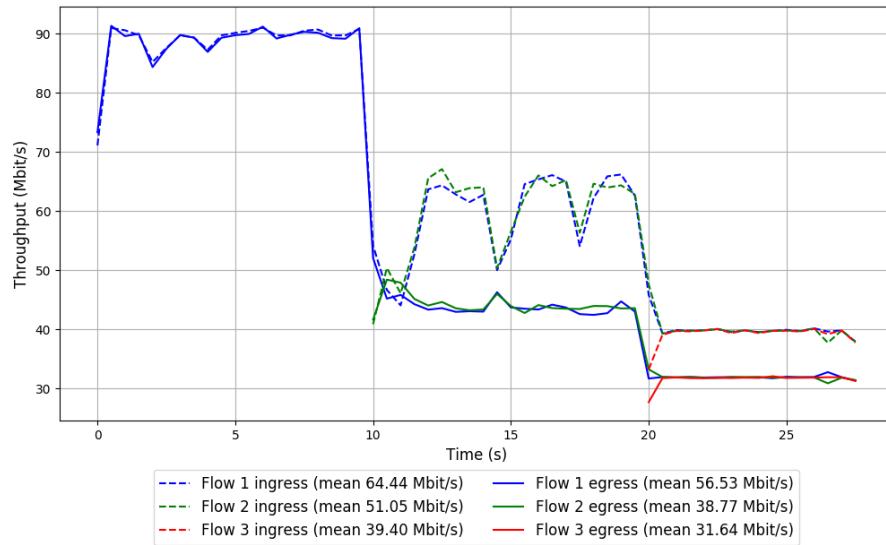


Run 8: Statistics of TaoVA-100x

```
Start at: 2017-12-20 10:29:14
End at: 2017-12-20 10:29:44
Local clock offset: 2.889 ms
Remote clock offset: -27.749 ms

# Below is generated by plot.py at 2017-12-20 11:46:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.42 Mbit/s
95th percentile per-packet one-way delay: 20.956 ms
Loss rate: 16.49%
-- Flow 1:
Average throughput: 56.53 Mbit/s
95th percentile per-packet one-way delay: 18.490 ms
Loss rate: 12.20%
-- Flow 2:
Average throughput: 38.77 Mbit/s
95th percentile per-packet one-way delay: 22.271 ms
Loss rate: 23.94%
-- Flow 3:
Average throughput: 31.64 Mbit/s
95th percentile per-packet one-way delay: 23.376 ms
Loss rate: 19.45%
```

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

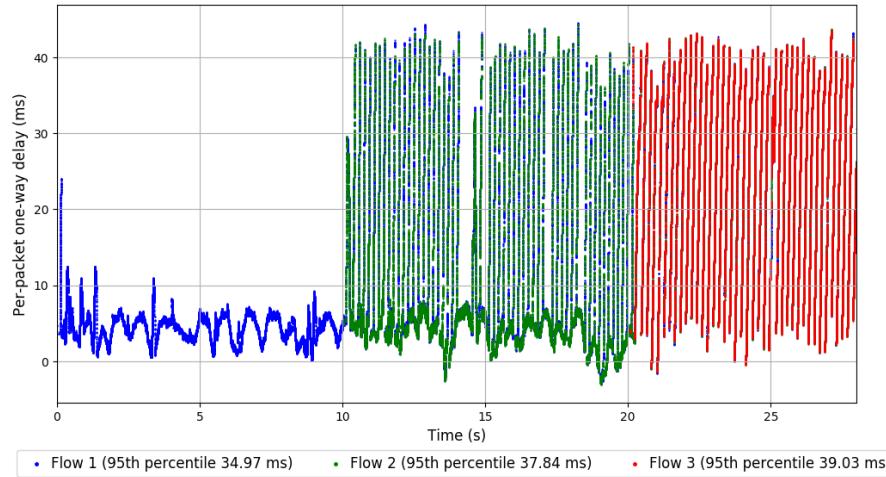
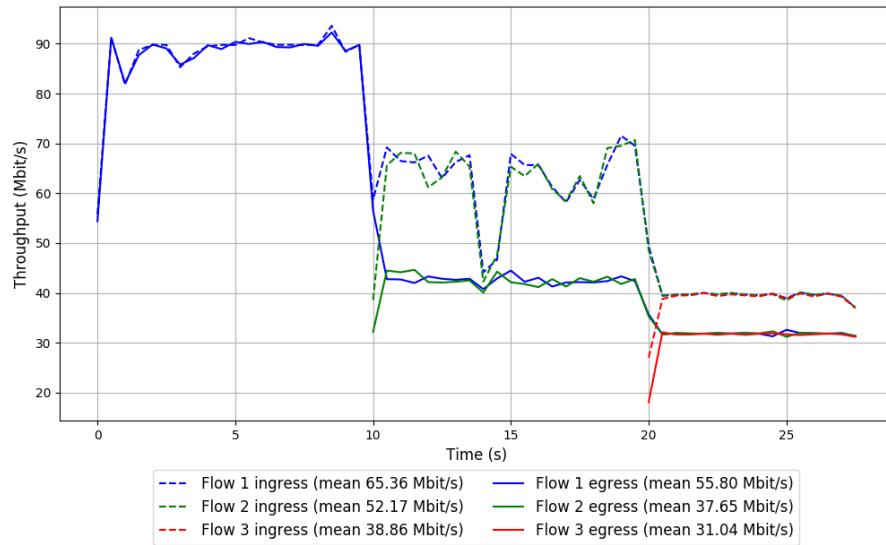


Run 9: Statistics of TaoVA-100x

```
Start at: 2017-12-20 10:48:23
End at: 2017-12-20 10:48:53
Local clock offset: 3.597 ms
Remote clock offset: -29.345 ms

# Below is generated by plot.py at 2017-12-20 11:48:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.79 Mbit/s
95th percentile per-packet one-way delay: 36.721 ms
Loss rate: 19.12%
-- Flow 1:
Average throughput: 55.80 Mbit/s
95th percentile per-packet one-way delay: 34.970 ms
Loss rate: 14.57%
-- Flow 2:
Average throughput: 37.65 Mbit/s
95th percentile per-packet one-way delay: 37.835 ms
Loss rate: 27.73%
-- Flow 3:
Average throughput: 31.04 Mbit/s
95th percentile per-packet one-way delay: 39.027 ms
Loss rate: 19.91%
```

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

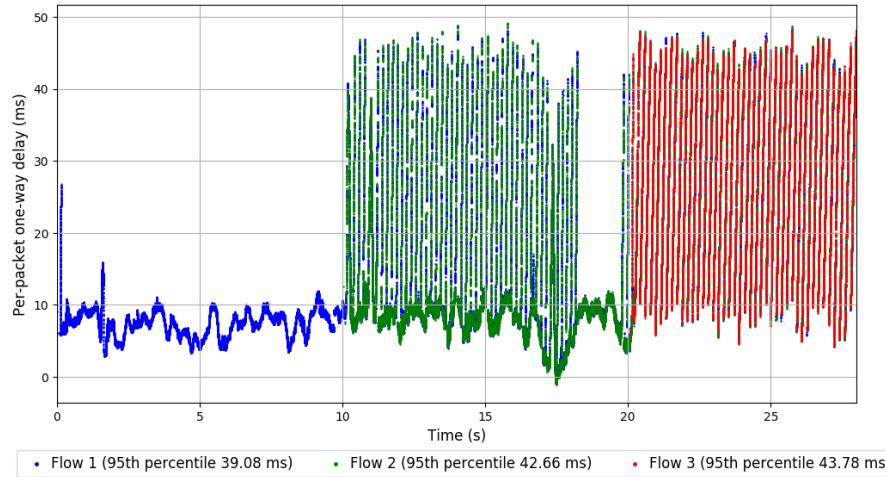
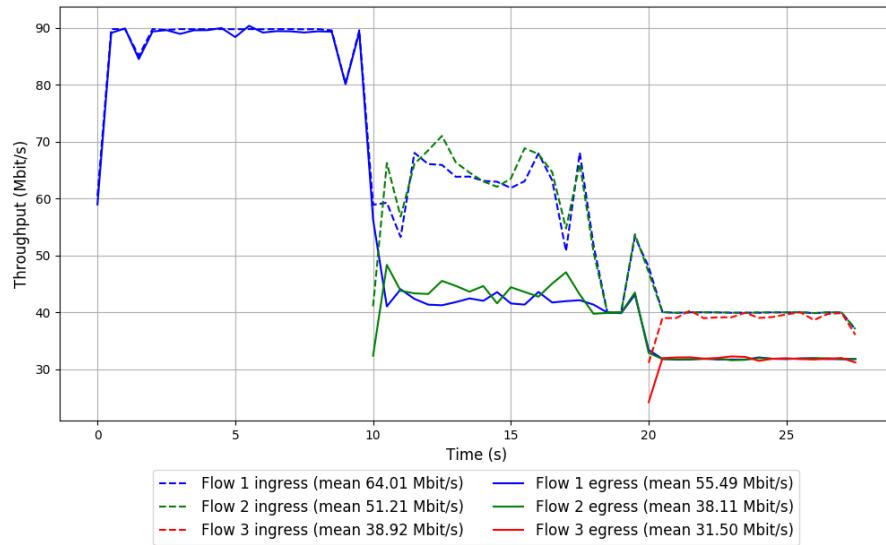


Run 10: Statistics of TaoVA-100x

```
Start at: 2017-12-20 11:06:42
End at: 2017-12-20 11:07:12
Local clock offset: 2.056 ms
Remote clock offset: -24.556 ms

# Below is generated by plot.py at 2017-12-20 11:48:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.93 Mbit/s
95th percentile per-packet one-way delay: 41.501 ms
Loss rate: 17.55%
-- Flow 1:
Average throughput: 55.49 Mbit/s
95th percentile per-packet one-way delay: 39.079 ms
Loss rate: 13.24%
-- Flow 2:
Average throughput: 38.11 Mbit/s
95th percentile per-packet one-way delay: 42.660 ms
Loss rate: 25.51%
-- Flow 3:
Average throughput: 31.50 Mbit/s
95th percentile per-packet one-way delay: 43.780 ms
Loss rate: 18.81%
```

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

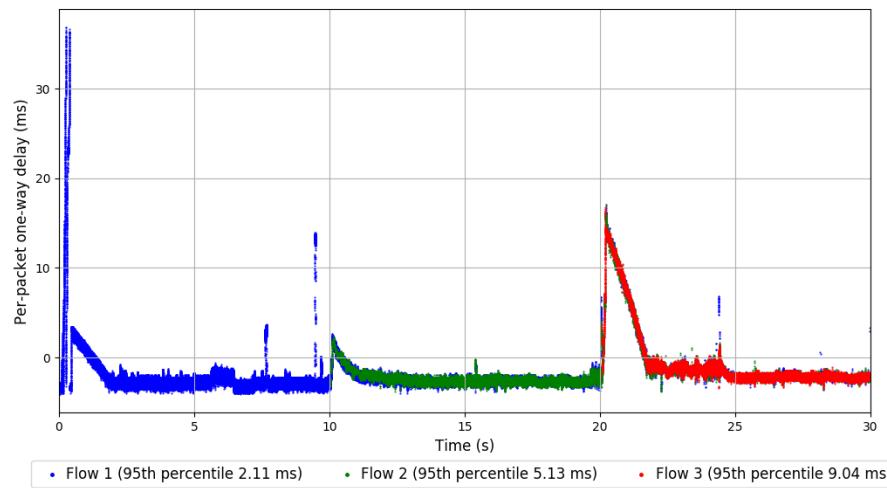
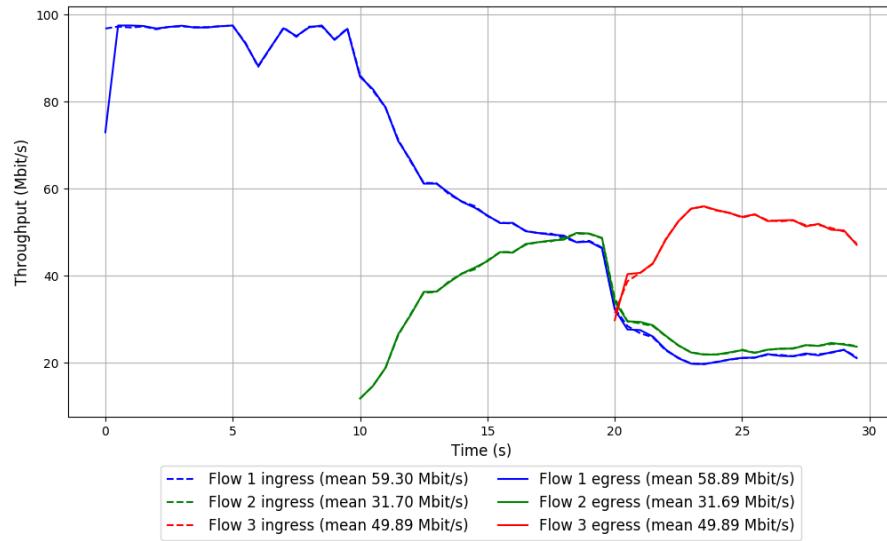


Run 1: Statistics of TCP Vegas

```
Start at: 2017-12-20 08:11:55
End at: 2017-12-20 08:12:25
Local clock offset: 0.285 ms
Remote clock offset: -13.098 ms

# Below is generated by plot.py at 2017-12-20 11:48:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.55 Mbit/s
95th percentile per-packet one-way delay: 3.367 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 58.89 Mbit/s
95th percentile per-packet one-way delay: 2.112 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 31.69 Mbit/s
95th percentile per-packet one-way delay: 5.131 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 49.89 Mbit/s
95th percentile per-packet one-way delay: 9.040 ms
Loss rate: 0.00%
```

Run 1: Report of TCP Vegas — Data Link

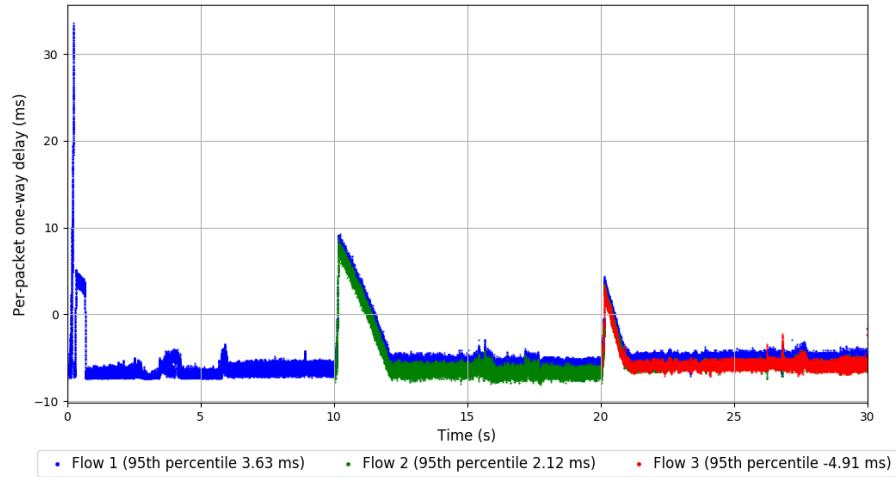
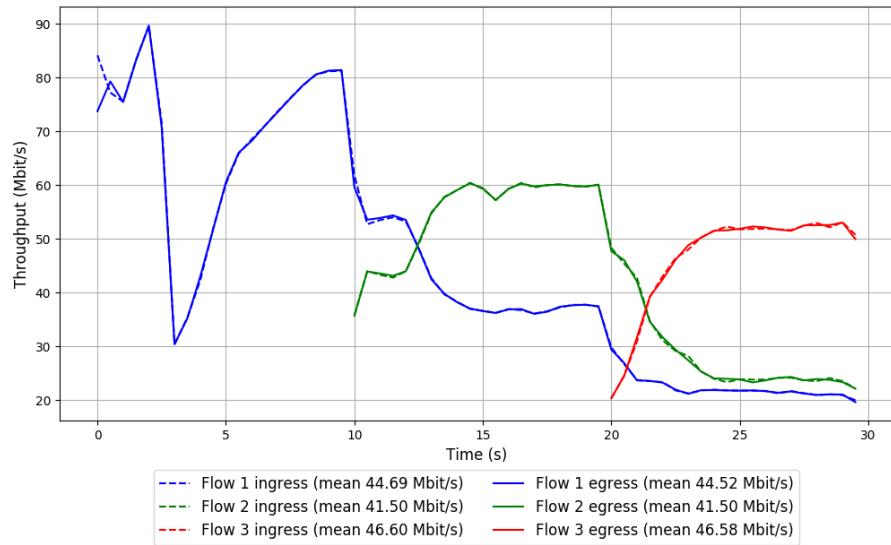


Run 2: Statistics of TCP Vegas

```
Start at: 2017-12-20 08:30:04
End at: 2017-12-20 08:30:34
Local clock offset: 4.699 ms
Remote clock offset: -12.041 ms

# Below is generated by plot.py at 2017-12-20 11:48:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.62 Mbit/s
95th percentile per-packet one-way delay: 2.471 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 44.52 Mbit/s
95th percentile per-packet one-way delay: 3.631 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 41.50 Mbit/s
95th percentile per-packet one-way delay: 2.122 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 46.58 Mbit/s
95th percentile per-packet one-way delay: -4.907 ms
Loss rate: 0.01%
```

Run 2: Report of TCP Vegas — Data Link

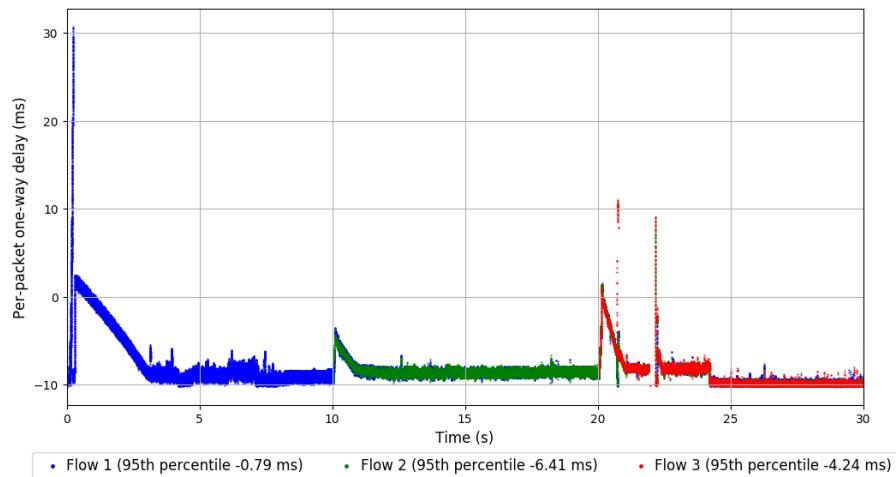
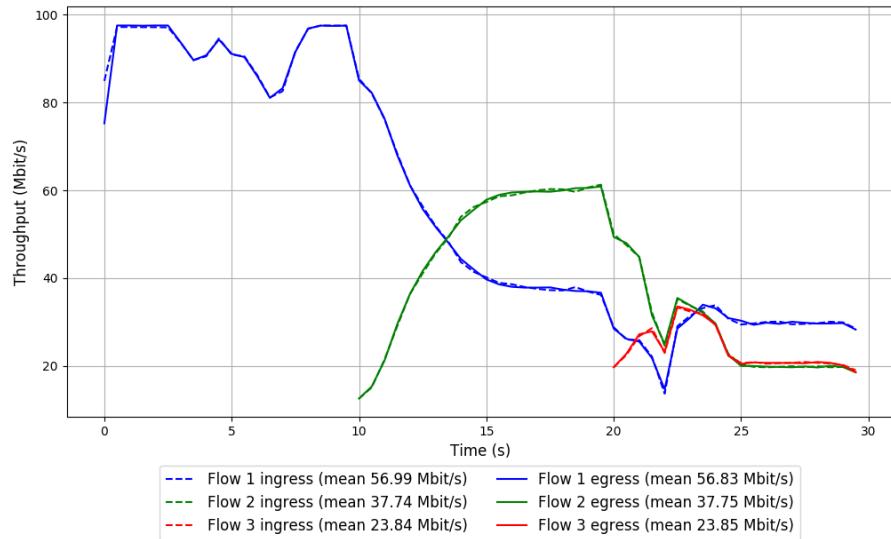


Run 3: Statistics of TCP Vegas

```
Start at: 2017-12-20 08:48:05
End at: 2017-12-20 08:48:35
Local clock offset: 4.656 ms
Remote clock offset: -13.843 ms

# Below is generated by plot.py at 2017-12-20 11:48:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.88 Mbit/s
95th percentile per-packet one-way delay: -1.883 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 56.83 Mbit/s
95th percentile per-packet one-way delay: -0.791 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 37.75 Mbit/s
95th percentile per-packet one-way delay: -6.410 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 23.85 Mbit/s
95th percentile per-packet one-way delay: -4.238 ms
Loss rate: 0.00%
```

Run 3: Report of TCP Vegas — Data Link

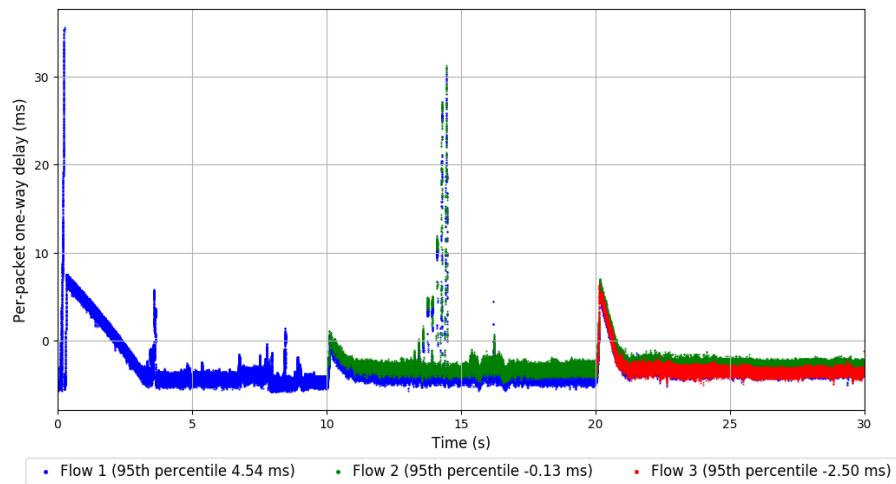
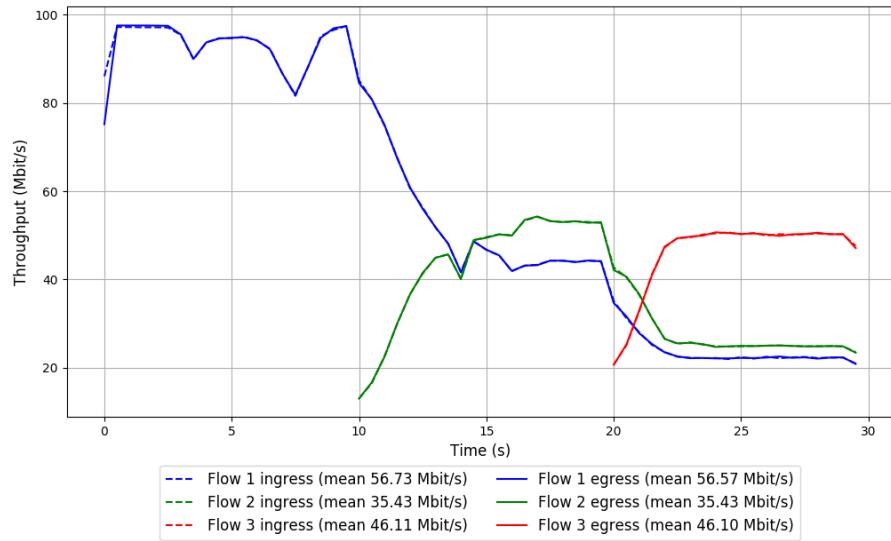


Run 4: Statistics of TCP Vegas

```
Start at: 2017-12-20 09:06:57
End at: 2017-12-20 09:07:27
Local clock offset: 1.012 ms
Remote clock offset: -13.566 ms

# Below is generated by plot.py at 2017-12-20 11:48:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.45 Mbit/s
95th percentile per-packet one-way delay: 3.447 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 56.57 Mbit/s
95th percentile per-packet one-way delay: 4.536 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 35.43 Mbit/s
95th percentile per-packet one-way delay: -0.129 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 46.10 Mbit/s
95th percentile per-packet one-way delay: -2.502 ms
Loss rate: 0.01%
```

Run 4: Report of TCP Vegas — Data Link

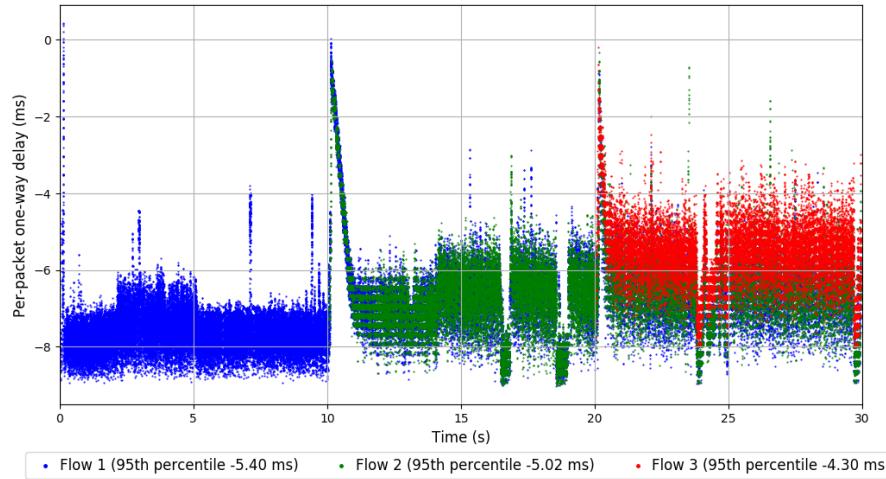
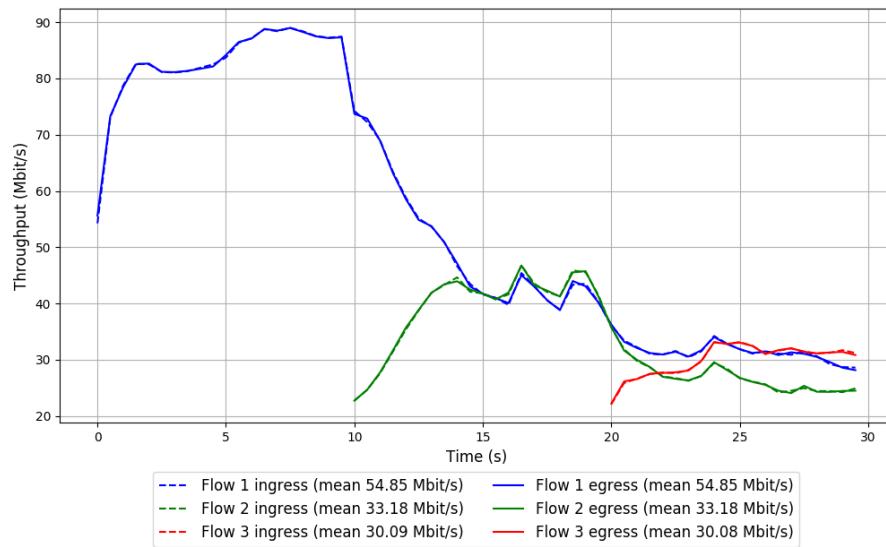


Run 5: Statistics of TCP Vegas

```
Start at: 2017-12-20 09:26:01
End at: 2017-12-20 09:26:31
Local clock offset: 3.766 ms
Remote clock offset: -15.106 ms

# Below is generated by plot.py at 2017-12-20 11:48:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.92 Mbit/s
95th percentile per-packet one-way delay: -4.881 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 54.85 Mbit/s
95th percentile per-packet one-way delay: -5.399 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 33.18 Mbit/s
95th percentile per-packet one-way delay: -5.016 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.08 Mbit/s
95th percentile per-packet one-way delay: -4.304 ms
Loss rate: 0.04%
```

Run 5: Report of TCP Vegas — Data Link

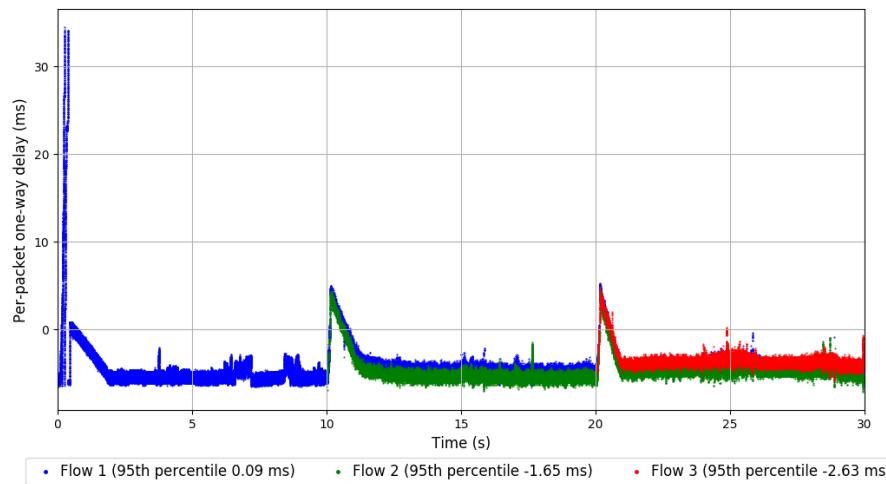
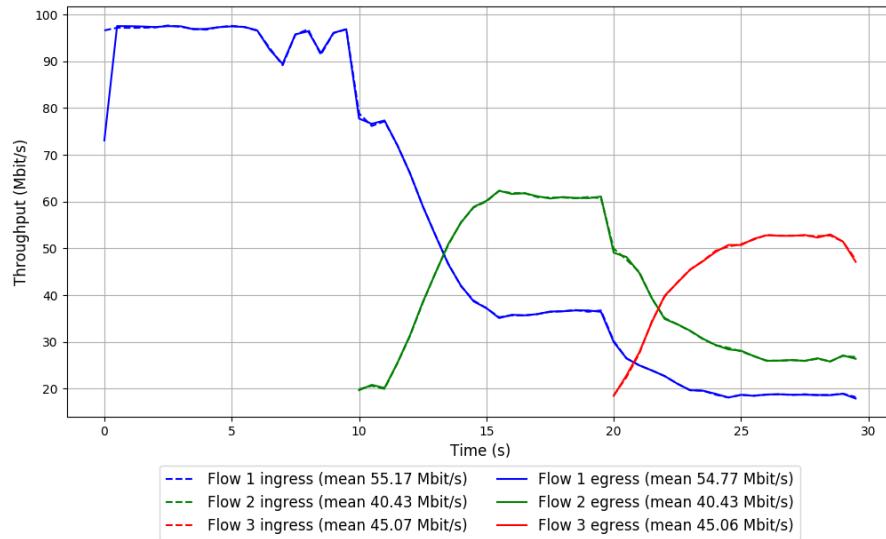


Run 6: Statistics of TCP Vegas

```
Start at: 2017-12-20 09:44:41
End at: 2017-12-20 09:45:11
Local clock offset: 2.108 ms
Remote clock offset: -14.419 ms

# Below is generated by plot.py at 2017-12-20 11:48:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.63 Mbit/s
95th percentile per-packet one-way delay: -0.426 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 54.77 Mbit/s
95th percentile per-packet one-way delay: 0.088 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 40.43 Mbit/s
95th percentile per-packet one-way delay: -1.652 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 45.06 Mbit/s
95th percentile per-packet one-way delay: -2.629 ms
Loss rate: 0.01%
```

Run 6: Report of TCP Vegas — Data Link

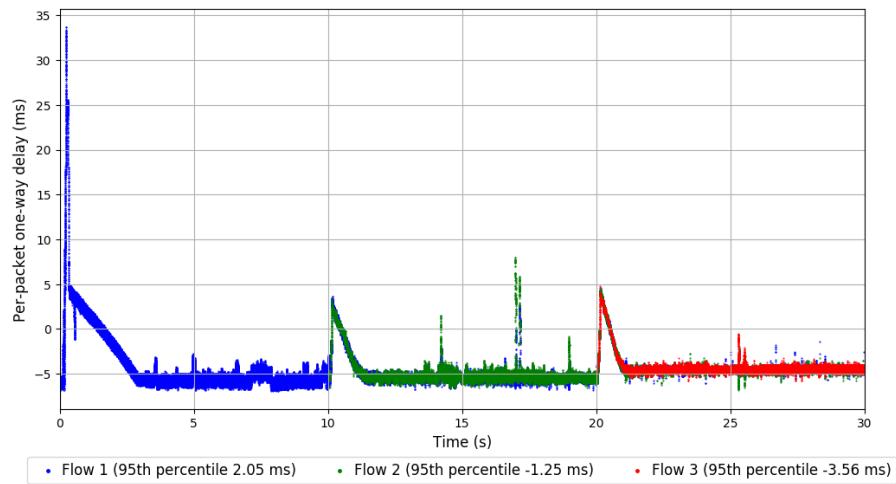
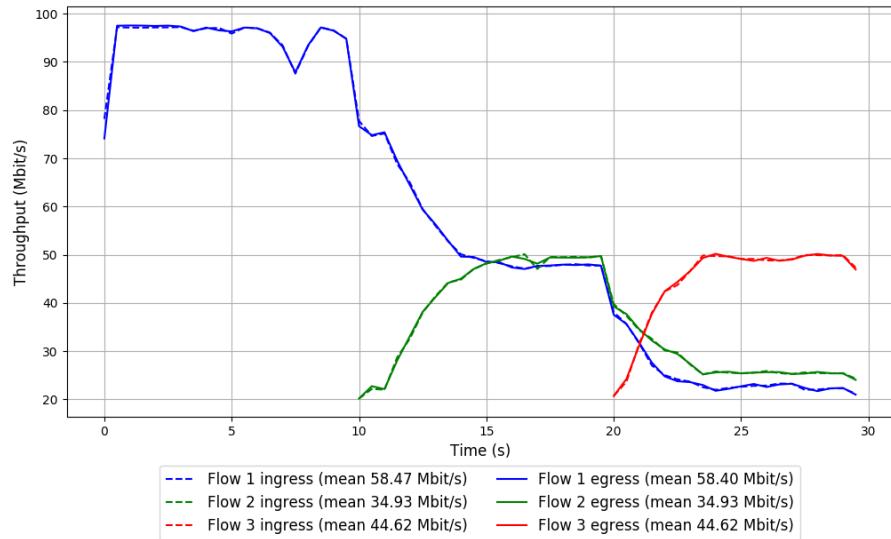


Run 7: Statistics of TCP Vegas

```
Start at: 2017-12-20 10:03:17
End at: 2017-12-20 10:03:47
Local clock offset: 2.524 ms
Remote clock offset: -12.767 ms

# Below is generated by plot.py at 2017-12-20 11:48:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.47 Mbit/s
95th percentile per-packet one-way delay: 1.210 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 58.40 Mbit/s
95th percentile per-packet one-way delay: 2.053 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 34.93 Mbit/s
95th percentile per-packet one-way delay: -1.245 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 44.62 Mbit/s
95th percentile per-packet one-way delay: -3.558 ms
Loss rate: 0.00%
```

Run 7: Report of TCP Vegas — Data Link

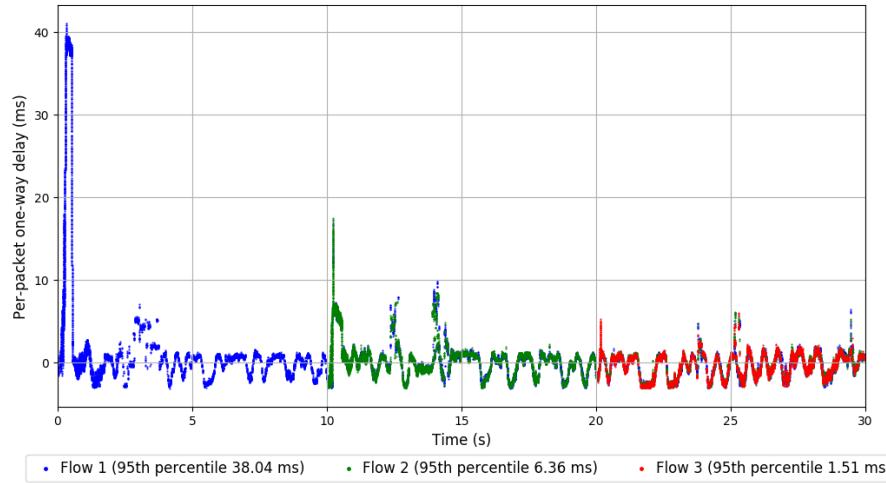
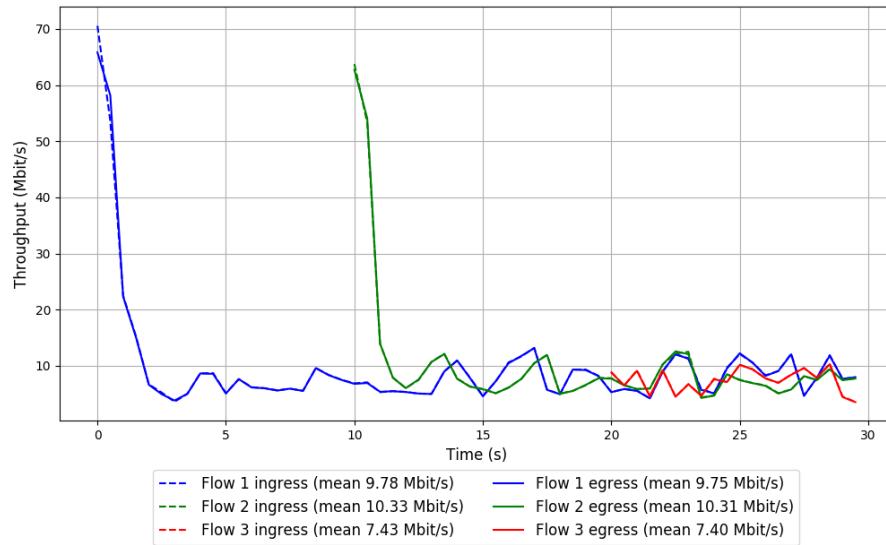


Run 8: Statistics of TCP Vegas

```
Start at: 2017-12-20 10:21:53
End at: 2017-12-20 10:22:23
Local clock offset: 3.3 ms
Remote clock offset: -14.742 ms

# Below is generated by plot.py at 2017-12-20 11:48:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.06 Mbit/s
95th percentile per-packet one-way delay: 13.282 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 9.75 Mbit/s
95th percentile per-packet one-way delay: 38.043 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 10.31 Mbit/s
95th percentile per-packet one-way delay: 6.361 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 7.40 Mbit/s
95th percentile per-packet one-way delay: 1.509 ms
Loss rate: 0.42%
```

Run 8: Report of TCP Vegas — Data Link

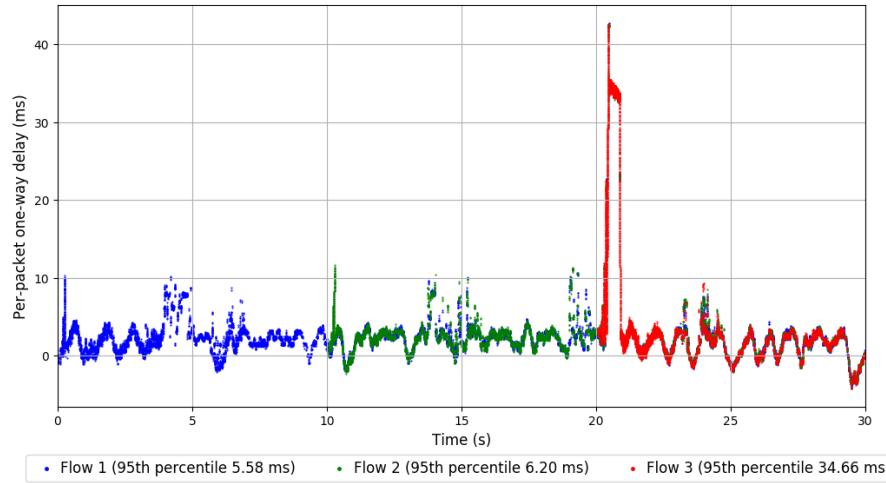
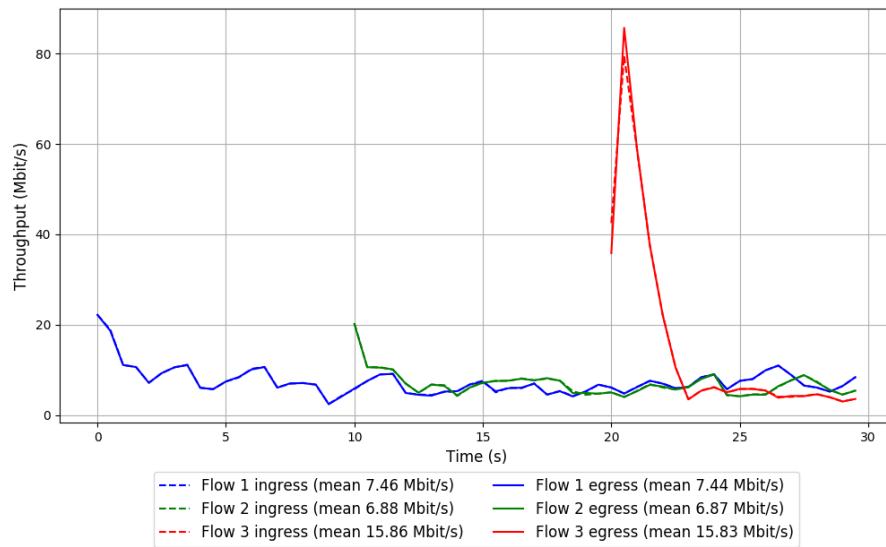


Run 9: Statistics of TCP Vegas

```
Start at: 2017-12-20 10:41:00
End at: 2017-12-20 10:41:30
Local clock offset: 2.265 ms
Remote clock offset: -31.575 ms

# Below is generated by plot.py at 2017-12-20 11:48:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.27 Mbit/s
95th percentile per-packet one-way delay: 33.855 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 7.44 Mbit/s
95th percentile per-packet one-way delay: 5.584 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 6.87 Mbit/s
95th percentile per-packet one-way delay: 6.203 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 15.83 Mbit/s
95th percentile per-packet one-way delay: 34.659 ms
Loss rate: 0.22%
```

Run 9: Report of TCP Vegas — Data Link

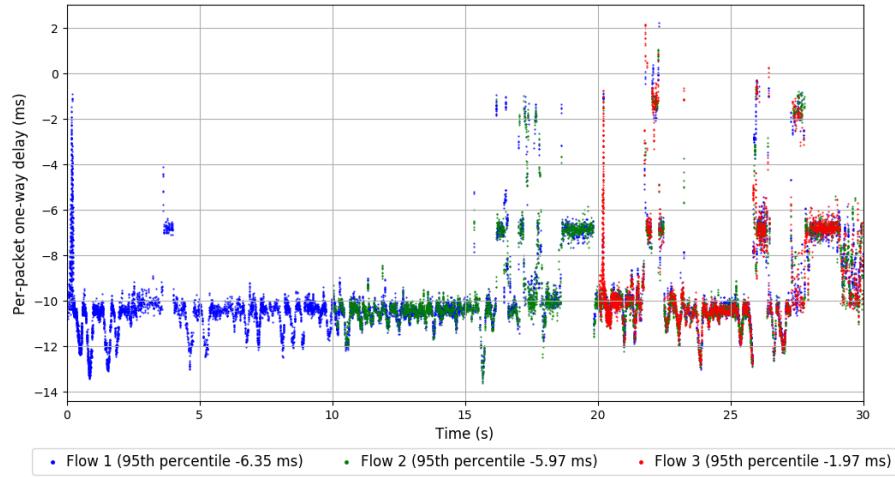
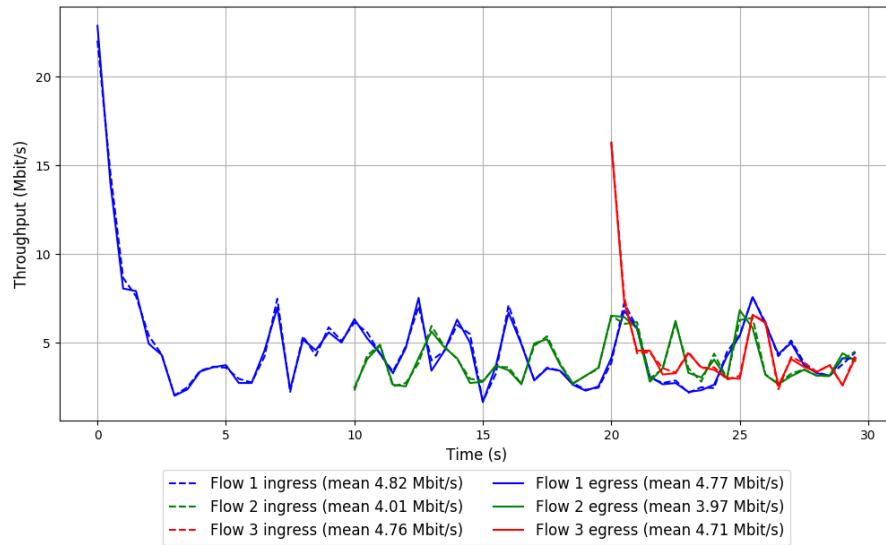


Run 10: Statistics of TCP Vegas

```
Start at: 2017-12-20 10:59:29
End at: 2017-12-20 10:59:59
Local clock offset: 1.751 ms
Remote clock offset: -26.001 ms

# Below is generated by plot.py at 2017-12-20 11:48:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.98 Mbit/s
95th percentile per-packet one-way delay: -5.468 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 4.77 Mbit/s
95th percentile per-packet one-way delay: -6.349 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 3.97 Mbit/s
95th percentile per-packet one-way delay: -5.973 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 4.71 Mbit/s
95th percentile per-packet one-way delay: -1.965 ms
Loss rate: 1.14%
```

Run 10: Report of TCP Vegas — Data Link

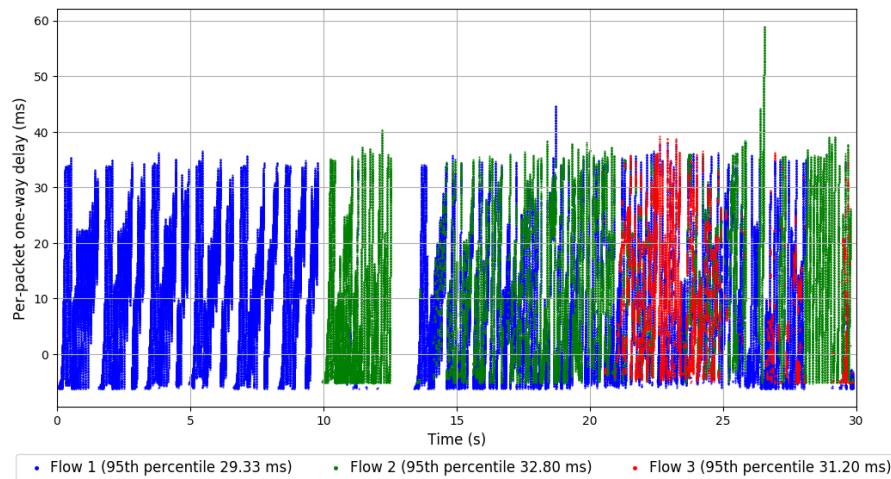
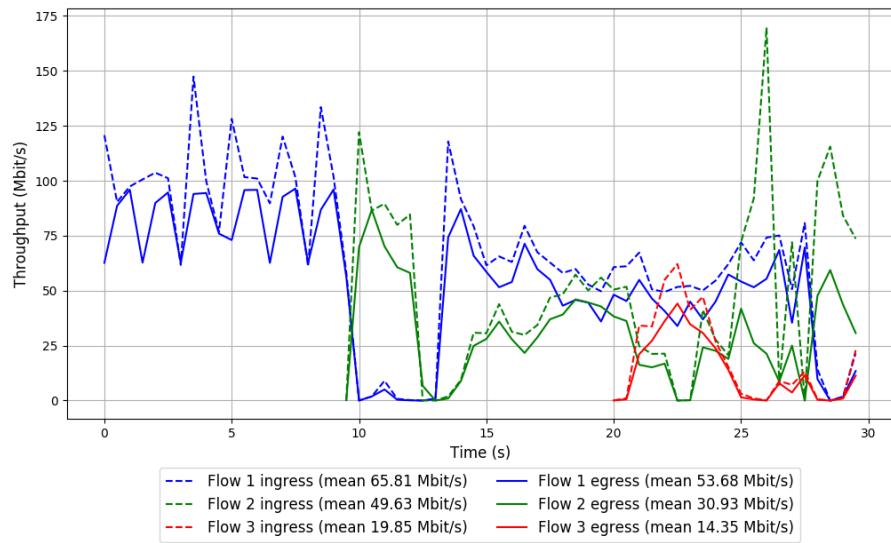


Run 1: Statistics of Verus

```
Start at: 2017-12-20 08:15:39
End at: 2017-12-20 08:16:09
Local clock offset: 1.926 ms
Remote clock offset: -12.567 ms

# Below is generated by plot.py at 2017-12-20 11:48:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.81 Mbit/s
95th percentile per-packet one-way delay: 30.545 ms
Loss rate: 25.08%
-- Flow 1:
Average throughput: 53.68 Mbit/s
95th percentile per-packet one-way delay: 29.328 ms
Loss rate: 18.42%
-- Flow 2:
Average throughput: 30.93 Mbit/s
95th percentile per-packet one-way delay: 32.798 ms
Loss rate: 37.76%
-- Flow 3:
Average throughput: 14.35 Mbit/s
95th percentile per-packet one-way delay: 31.195 ms
Loss rate: 28.01%
```

Run 1: Report of Verus — Data Link

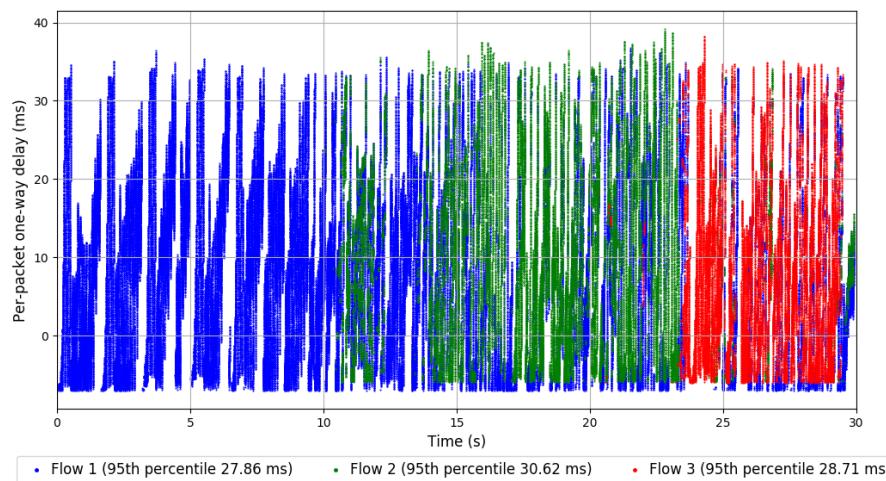
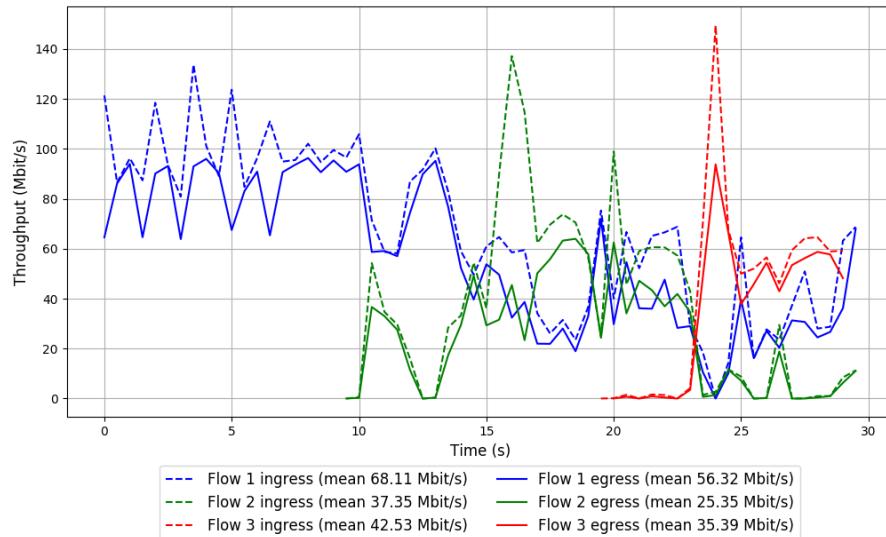


Run 2: Statistics of Verus

```
Start at: 2017-12-20 08:33:40
End at: 2017-12-20 08:34:10
Local clock offset: 3.489 ms
Remote clock offset: -11.85 ms

# Below is generated by plot.py at 2017-12-20 11:48:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.38 Mbit/s
95th percentile per-packet one-way delay: 28.648 ms
Loss rate: 20.71%
-- Flow 1:
Average throughput: 56.32 Mbit/s
95th percentile per-packet one-way delay: 27.857 ms
Loss rate: 17.26%
-- Flow 2:
Average throughput: 25.35 Mbit/s
95th percentile per-packet one-way delay: 30.617 ms
Loss rate: 32.16%
-- Flow 3:
Average throughput: 35.39 Mbit/s
95th percentile per-packet one-way delay: 28.707 ms
Loss rate: 17.02%
```

Run 2: Report of Verus — Data Link

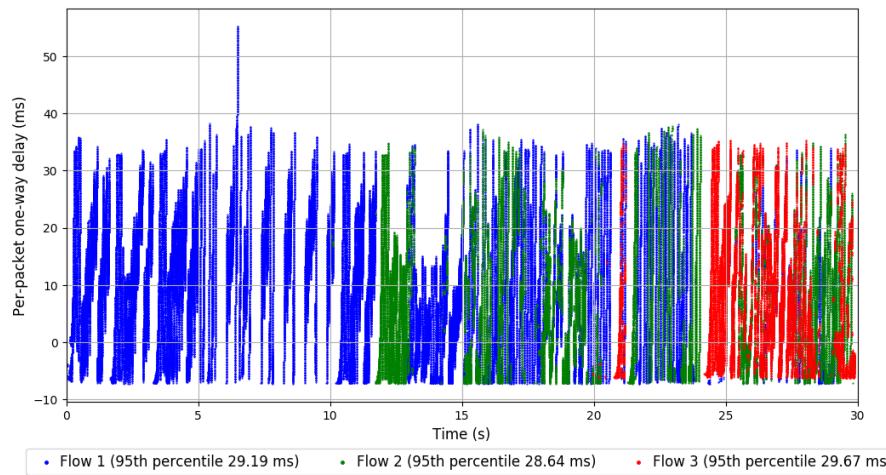
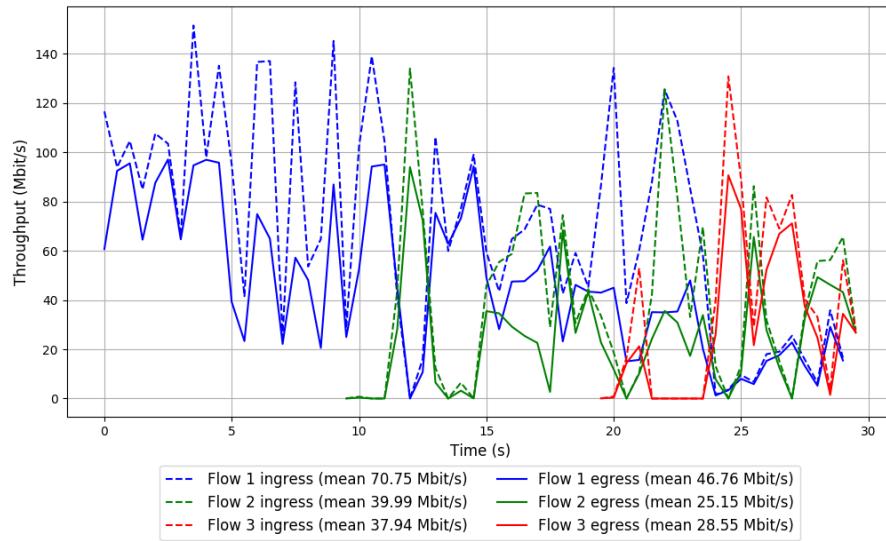


Run 3: Statistics of Verus

```
Start at: 2017-12-20 08:51:41
End at: 2017-12-20 08:52:11
Local clock offset: 2.548 ms
Remote clock offset: -12.793 ms

# Below is generated by plot.py at 2017-12-20 11:48:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.15 Mbit/s
95th percentile per-packet one-way delay: 29.135 ms
Loss rate: 33.63%
-- Flow 1:
Average throughput: 46.76 Mbit/s
95th percentile per-packet one-way delay: 29.187 ms
Loss rate: 33.88%
-- Flow 2:
Average throughput: 25.15 Mbit/s
95th percentile per-packet one-way delay: 28.635 ms
Loss rate: 37.17%
-- Flow 3:
Average throughput: 28.55 Mbit/s
95th percentile per-packet one-way delay: 29.672 ms
Loss rate: 24.73%
```

Run 3: Report of Verus — Data Link

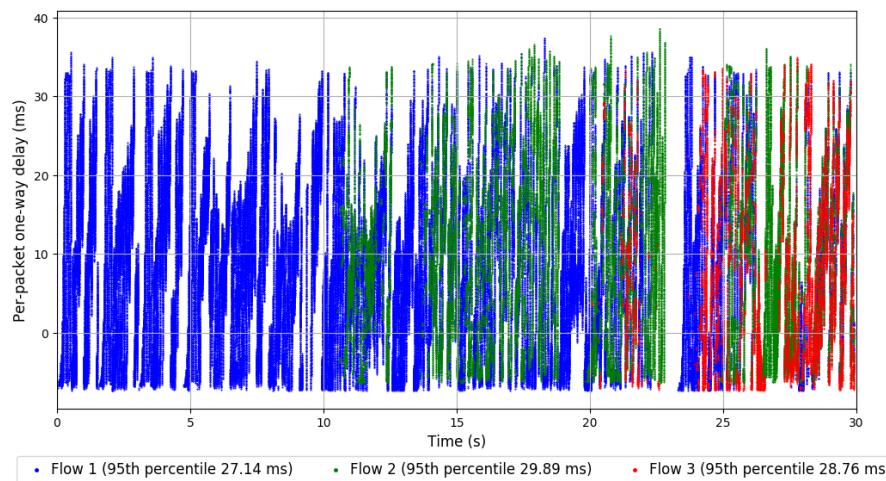
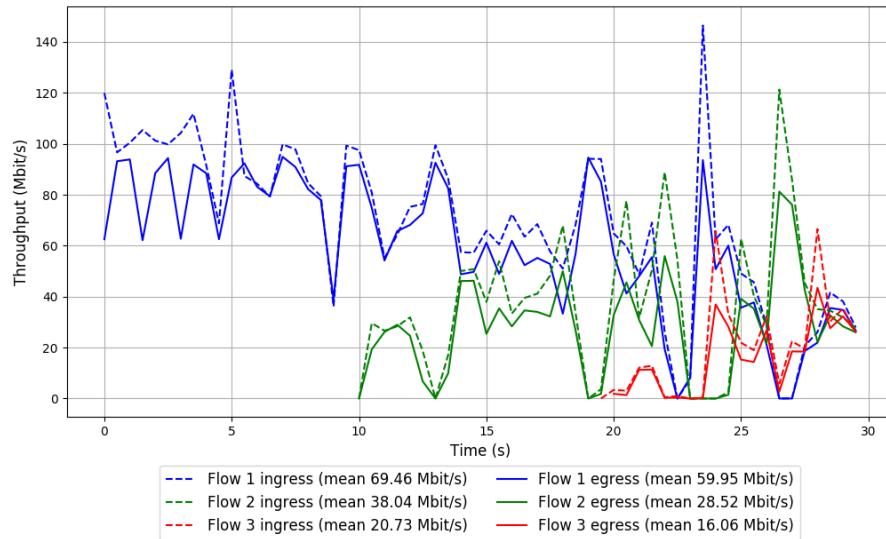


Run 4: Statistics of Verus

```
Start at: 2017-12-20 09:10:49
End at: 2017-12-20 09:11:19
Local clock offset: 4.163 ms
Remote clock offset: -12.175 ms

# Below is generated by plot.py at 2017-12-20 11:48:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.77 Mbit/s
95th percentile per-packet one-way delay: 27.954 ms
Loss rate: 17.08%
-- Flow 1:
Average throughput: 59.95 Mbit/s
95th percentile per-packet one-way delay: 27.143 ms
Loss rate: 13.66%
-- Flow 2:
Average throughput: 28.52 Mbit/s
95th percentile per-packet one-way delay: 29.894 ms
Loss rate: 25.10%
-- Flow 3:
Average throughput: 16.06 Mbit/s
95th percentile per-packet one-way delay: 28.760 ms
Loss rate: 22.80%
```

Run 4: Report of Verus — Data Link

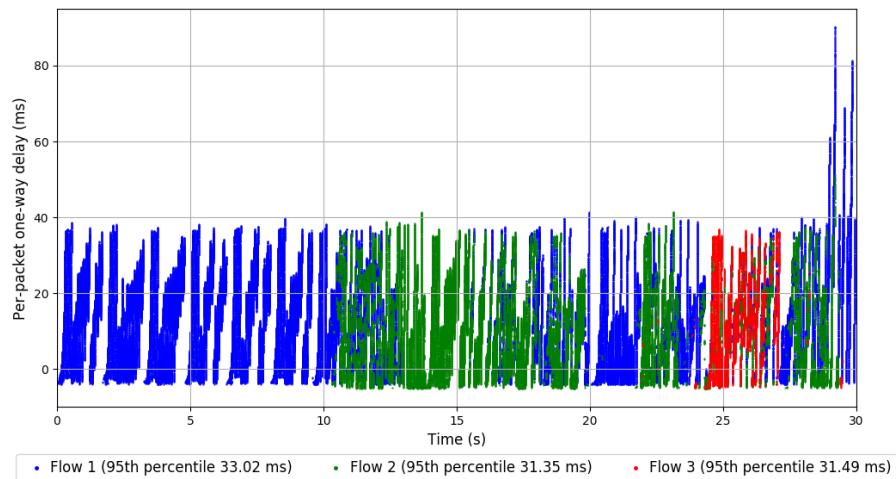
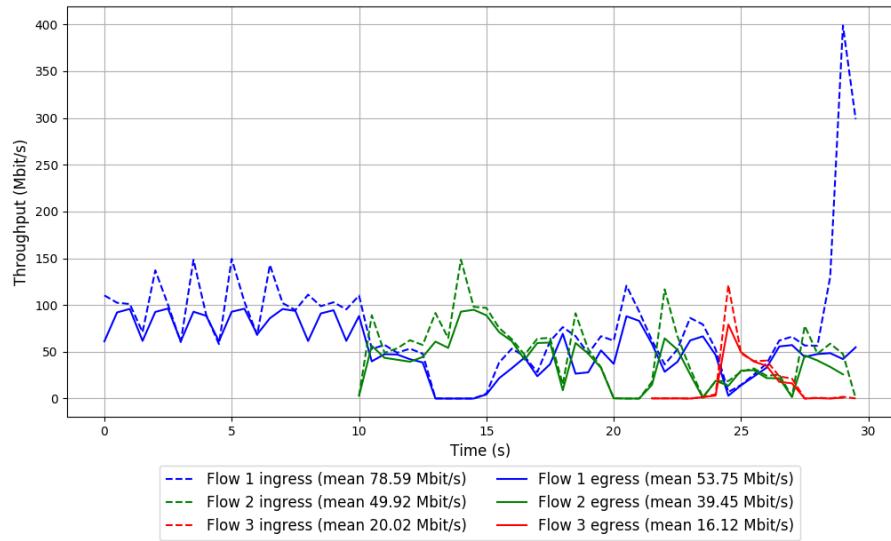


Run 5: Statistics of Verus

```
Start at: 2017-12-20 09:29:37
End at: 2017-12-20 09:30:07
Local clock offset: 1.092 ms
Remote clock offset: -13.649 ms

# Below is generated by plot.py at 2017-12-20 11:49:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.94 Mbit/s
95th percentile per-packet one-way delay: 32.410 ms
Loss rate: 28.50%
-- Flow 1:
Average throughput: 53.75 Mbit/s
95th percentile per-packet one-way delay: 33.022 ms
Loss rate: 31.58%
-- Flow 2:
Average throughput: 39.45 Mbit/s
95th percentile per-packet one-way delay: 31.348 ms
Loss rate: 22.35%
-- Flow 3:
Average throughput: 16.12 Mbit/s
95th percentile per-packet one-way delay: 31.486 ms
Loss rate: 20.09%
```

Run 5: Report of Verus — Data Link

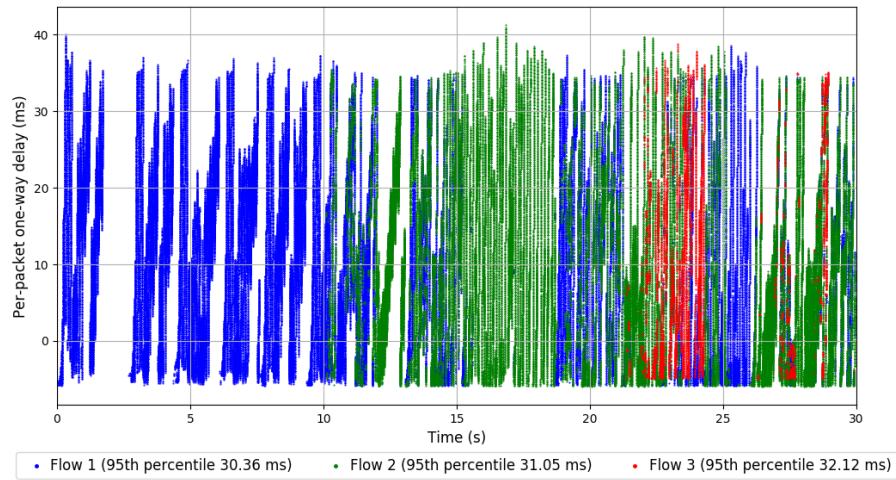
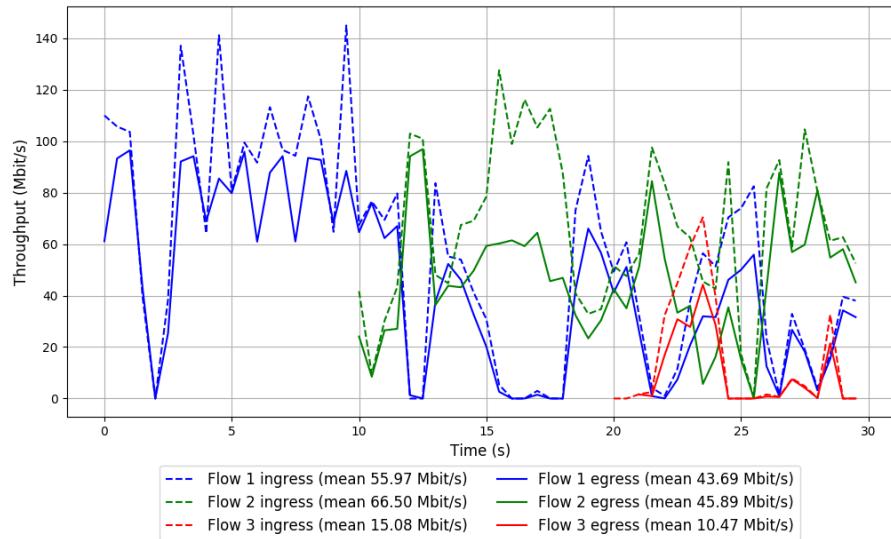


Run 6: Statistics of Verus

```
Start at: 2017-12-20 09:48:18
End at: 2017-12-20 09:48:48
Local clock offset: 1.409 ms
Remote clock offset: -13.462 ms

# Below is generated by plot.py at 2017-12-20 11:49:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.33 Mbit/s
95th percentile per-packet one-way delay: 30.707 ms
Loss rate: 26.47%
-- Flow 1:
Average throughput: 43.69 Mbit/s
95th percentile per-packet one-way delay: 30.363 ms
Loss rate: 21.89%
-- Flow 2:
Average throughput: 45.89 Mbit/s
95th percentile per-packet one-way delay: 31.048 ms
Loss rate: 30.99%
-- Flow 3:
Average throughput: 10.47 Mbit/s
95th percentile per-packet one-way delay: 32.121 ms
Loss rate: 37.72%
```

Run 6: Report of Verus — Data Link

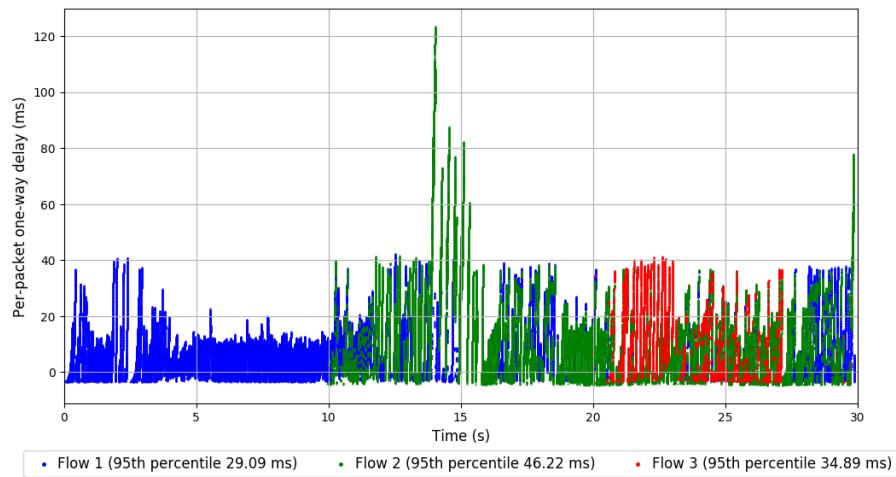
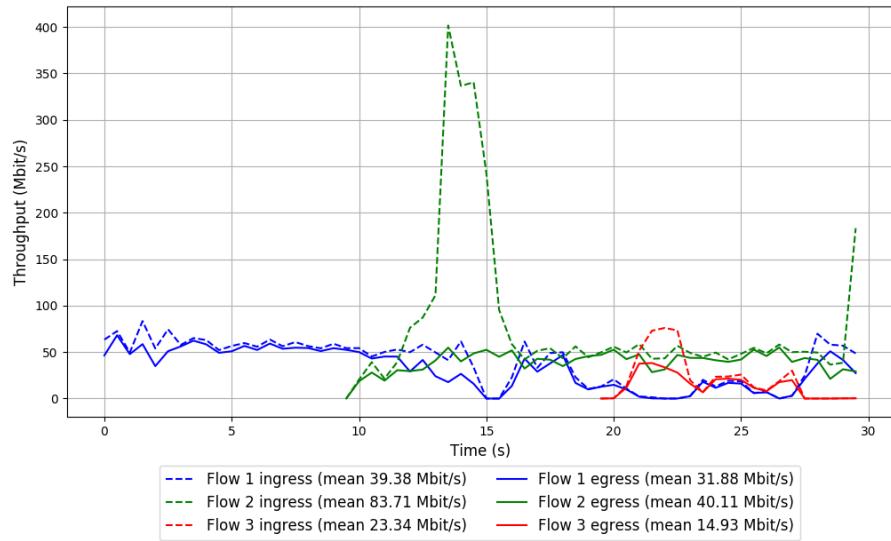


Run 7: Statistics of Verus

```
Start at: 2017-12-20 10:06:55
End at: 2017-12-20 10:07:25
Local clock offset: 2.65 ms
Remote clock offset: -13.766 ms

# Below is generated by plot.py at 2017-12-20 11:49:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.48 Mbit/s
95th percentile per-packet one-way delay: 34.297 ms
Loss rate: 38.12%
-- Flow 1:
Average throughput: 31.88 Mbit/s
95th percentile per-packet one-way delay: 29.094 ms
Loss rate: 19.01%
-- Flow 2:
Average throughput: 40.11 Mbit/s
95th percentile per-packet one-way delay: 46.219 ms
Loss rate: 51.91%
-- Flow 3:
Average throughput: 14.93 Mbit/s
95th percentile per-packet one-way delay: 34.890 ms
Loss rate: 36.29%
```

Run 7: Report of Verus — Data Link

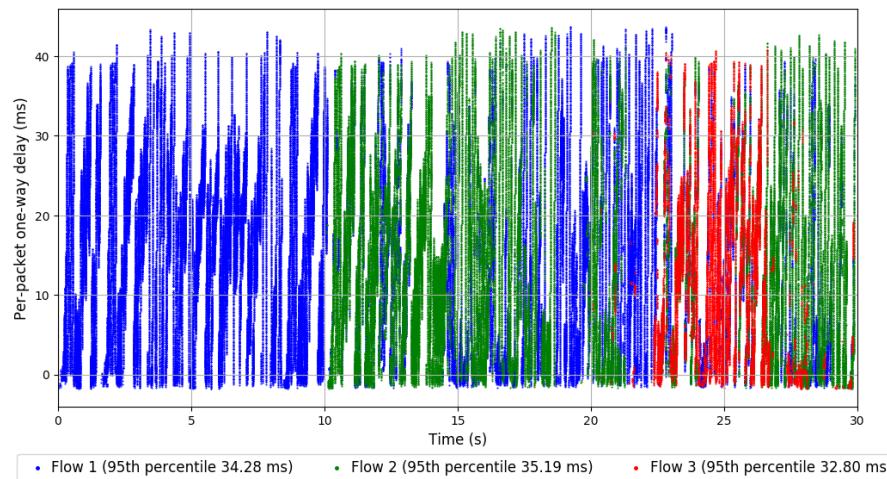
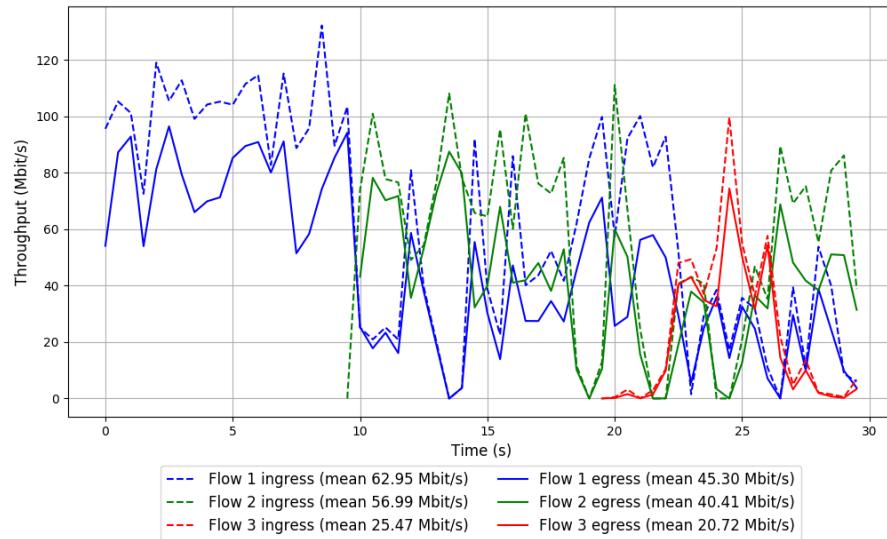


Run 8: Statistics of Verus

```
Start at: 2017-12-20 10:25:27
End at: 2017-12-20 10:25:57
Local clock offset: 3.05 ms
Remote clock offset: -13.719 ms

# Below is generated by plot.py at 2017-12-20 11:49:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.03 Mbit/s
95th percentile per-packet one-way delay: 34.512 ms
Loss rate: 27.66%
-- Flow 1:
Average throughput: 45.30 Mbit/s
95th percentile per-packet one-way delay: 34.279 ms
Loss rate: 27.98%
-- Flow 2:
Average throughput: 40.41 Mbit/s
95th percentile per-packet one-way delay: 35.187 ms
Loss rate: 29.07%
-- Flow 3:
Average throughput: 20.72 Mbit/s
95th percentile per-packet one-way delay: 32.805 ms
Loss rate: 19.02%
```

Run 8: Report of Verus — Data Link

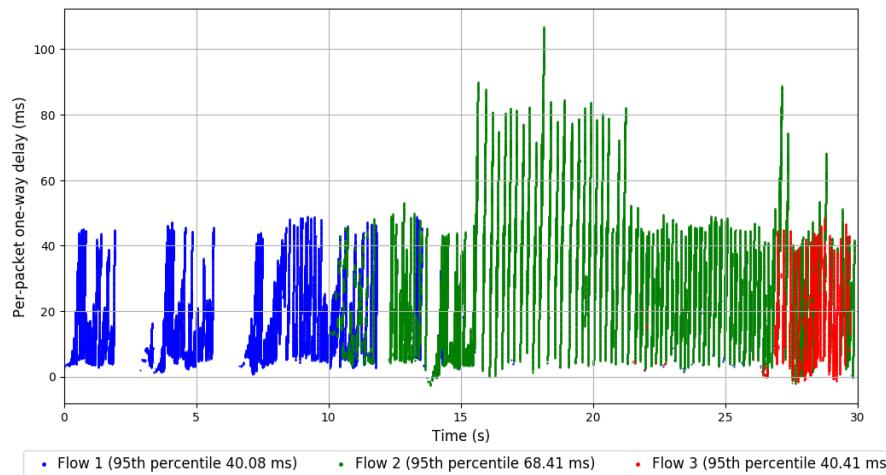
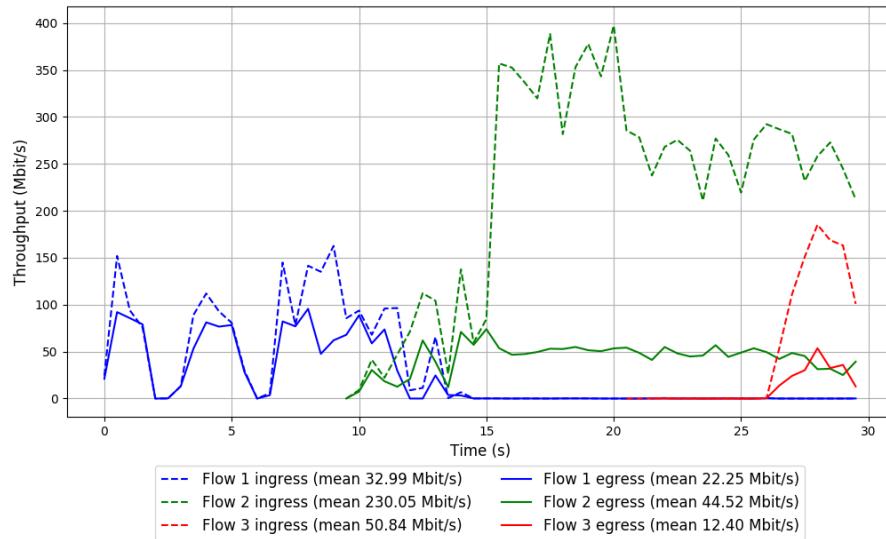


Run 9: Statistics of Verus

```
Start at: 2017-12-20 10:44:36
End at: 2017-12-20 10:45:06
Local clock offset: 0.307 ms
Remote clock offset: -30.152 ms

# Below is generated by plot.py at 2017-12-20 11:50:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 55.31 Mbit/s
95th percentile per-packet one-way delay: 59.149 ms
Loss rate: 72.60%
-- Flow 1:
Average throughput: 22.25 Mbit/s
95th percentile per-packet one-way delay: 40.076 ms
Loss rate: 32.49%
-- Flow 2:
Average throughput: 44.52 Mbit/s
95th percentile per-packet one-way delay: 68.411 ms
Loss rate: 80.64%
-- Flow 3:
Average throughput: 12.40 Mbit/s
95th percentile per-packet one-way delay: 40.412 ms
Loss rate: 78.23%
```

Run 9: Report of Verus — Data Link

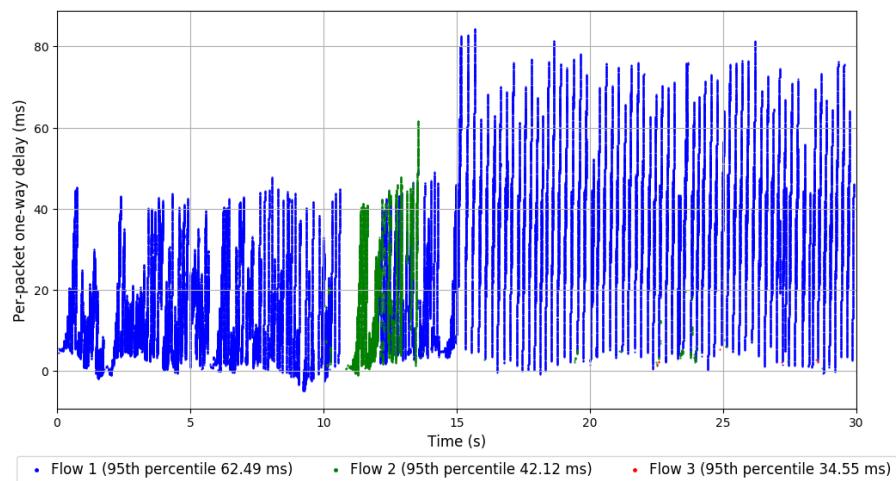
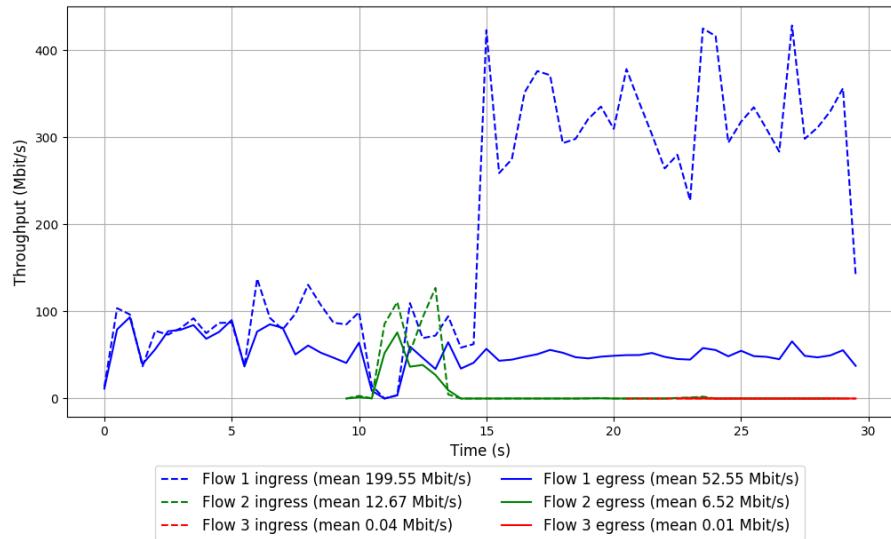


Run 10: Statistics of Verus

```
Start at: 2017-12-20 11:03:01
End at: 2017-12-20 11:03:31
Local clock offset: 3.412 ms
Remote clock offset: -26.654 ms

# Below is generated by plot.py at 2017-12-20 11:50:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 56.64 Mbit/s
95th percentile per-packet one-way delay: 61.781 ms
Loss rate: 72.69%
-- Flow 1:
Average throughput: 52.55 Mbit/s
95th percentile per-packet one-way delay: 62.489 ms
Loss rate: 73.63%
-- Flow 2:
Average throughput: 6.52 Mbit/s
95th percentile per-packet one-way delay: 42.125 ms
Loss rate: 49.43%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 34.550 ms
Loss rate: 68.97%
```

Run 10: Report of Verus — Data Link

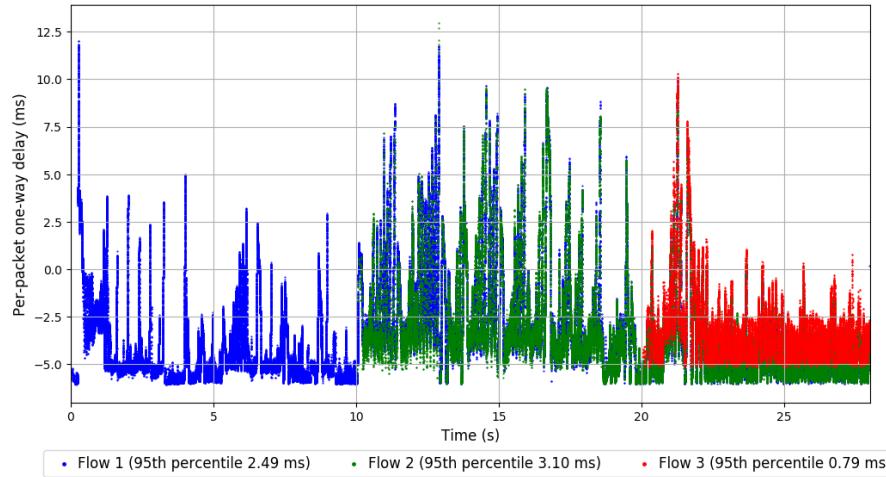
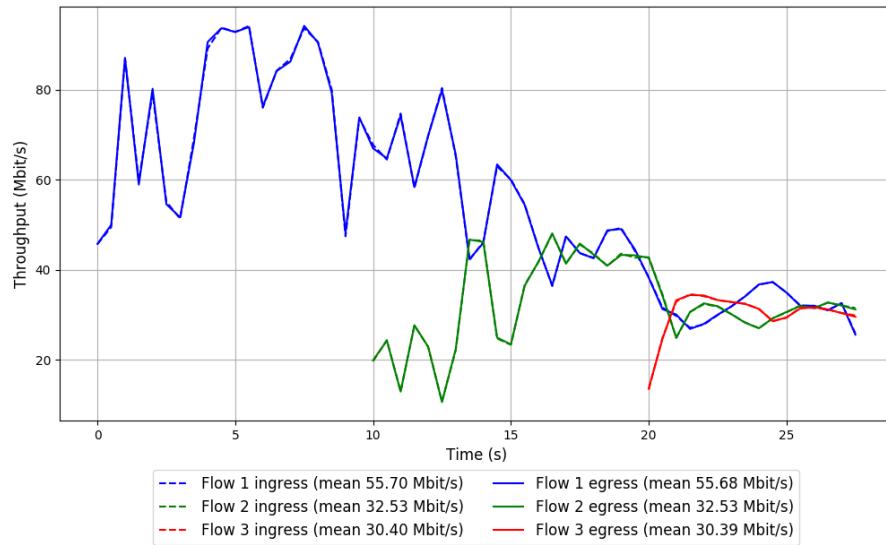


Run 1: Statistics of Copa

```
Start at: 2017-12-20 08:20:34
End at: 2017-12-20 08:21:04
Local clock offset: 2.097 ms
Remote clock offset: -12.377 ms

# Below is generated by plot.py at 2017-12-20 11:51:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.19 Mbit/s
95th percentile per-packet one-way delay: 2.536 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.68 Mbit/s
95th percentile per-packet one-way delay: 2.494 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 32.53 Mbit/s
95th percentile per-packet one-way delay: 3.096 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.39 Mbit/s
95th percentile per-packet one-way delay: 0.794 ms
Loss rate: 0.02%
```

Run 1: Report of Copa — Data Link

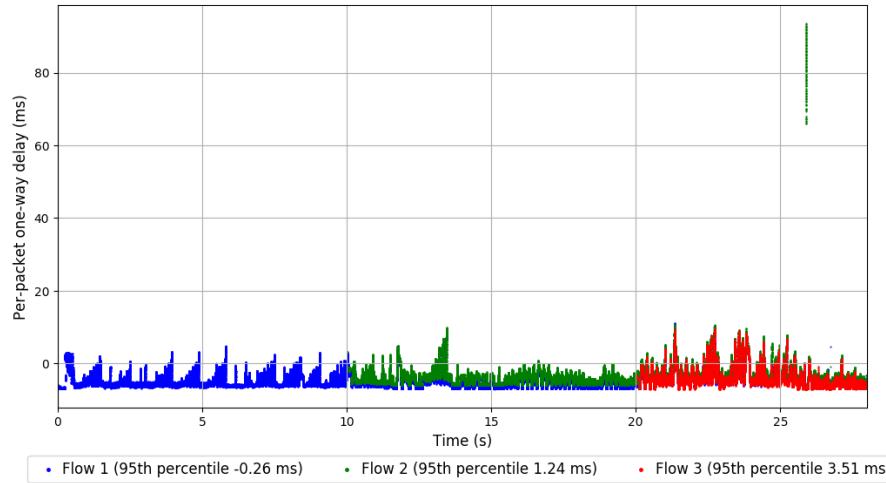
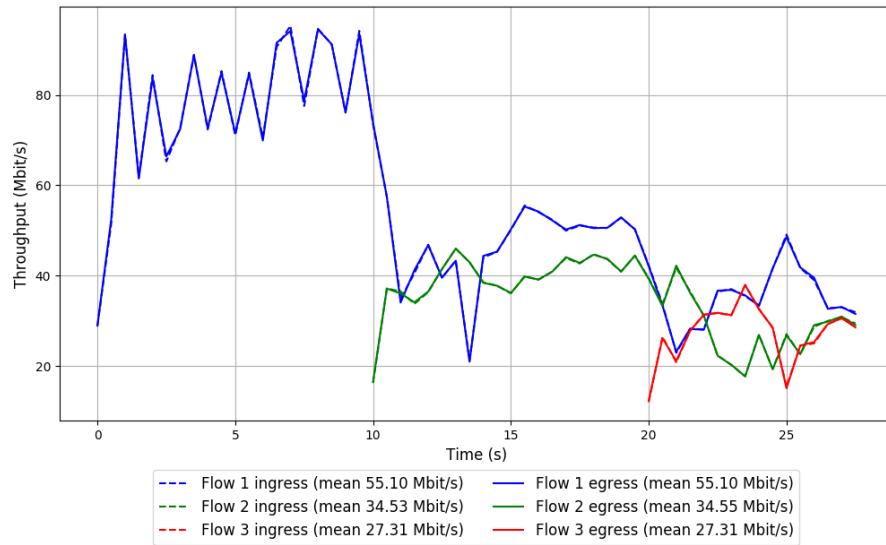


Run 2: Statistics of Copa

```
Start at: 2017-12-20 08:38:34
End at: 2017-12-20 08:39:04
Local clock offset: 3.967 ms
Remote clock offset: -11.487 ms

# Below is generated by plot.py at 2017-12-20 11:51:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.02 Mbit/s
95th percentile per-packet one-way delay: 0.506 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.10 Mbit/s
95th percentile per-packet one-way delay: -0.259 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 34.55 Mbit/s
95th percentile per-packet one-way delay: 1.236 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 27.31 Mbit/s
95th percentile per-packet one-way delay: 3.506 ms
Loss rate: 0.00%
```

Run 2: Report of Copa — Data Link

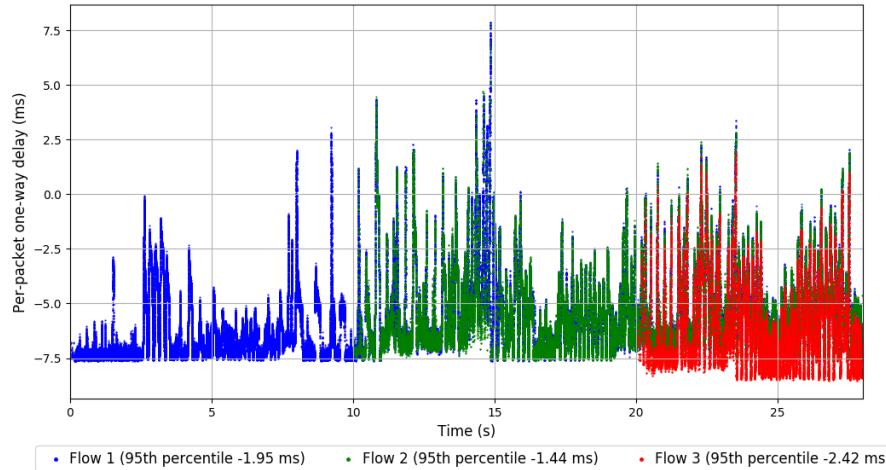
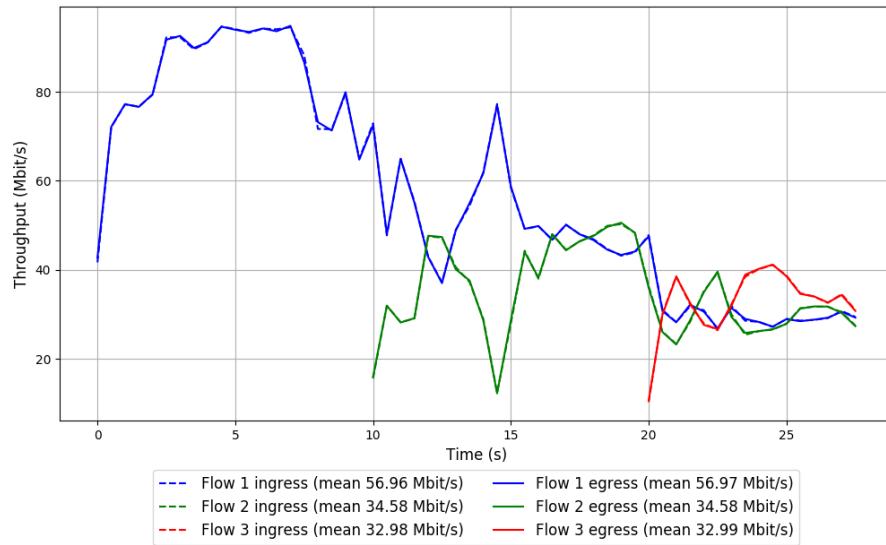


Run 3: Statistics of Copa

```
Start at: 2017-12-20 08:56:42
End at: 2017-12-20 08:57:12
Local clock offset: 4.749 ms
Remote clock offset: -11.712 ms

# Below is generated by plot.py at 2017-12-20 11:51:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.51 Mbit/s
95th percentile per-packet one-way delay: -1.850 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 56.97 Mbit/s
95th percentile per-packet one-way delay: -1.952 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 34.58 Mbit/s
95th percentile per-packet one-way delay: -1.437 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 32.99 Mbit/s
95th percentile per-packet one-way delay: -2.415 ms
Loss rate: 0.00%
```

Run 3: Report of Copa — Data Link

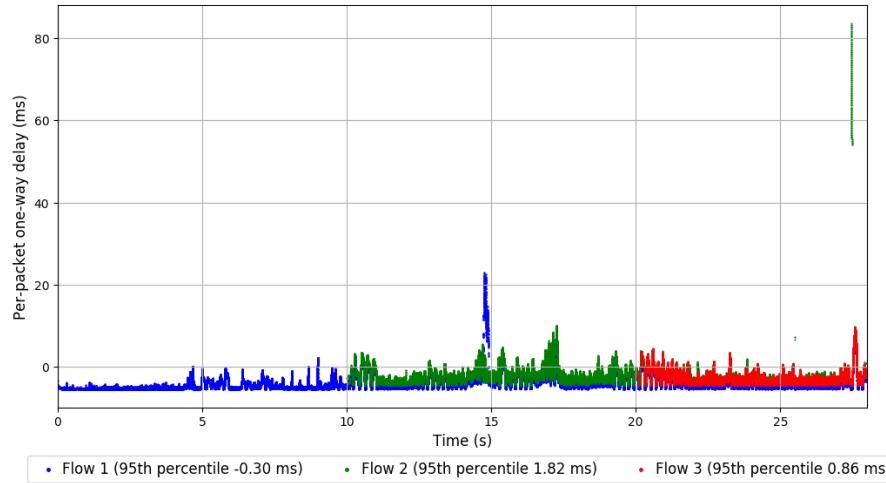
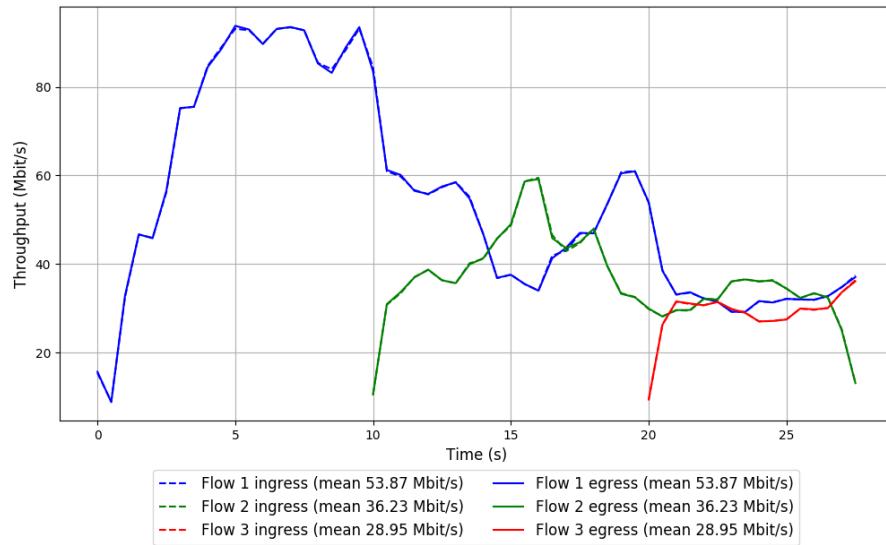


Run 4: Statistics of Copa

```
Start at: 2017-12-20 09:15:58
End at: 2017-12-20 09:16:28
Local clock offset: 1.882 ms
Remote clock offset: -13.093 ms

# Below is generated by plot.py at 2017-12-20 11:51:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.34 Mbit/s
95th percentile per-packet one-way delay: 0.622 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 53.87 Mbit/s
95th percentile per-packet one-way delay: -0.300 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 36.23 Mbit/s
95th percentile per-packet one-way delay: 1.818 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 28.95 Mbit/s
95th percentile per-packet one-way delay: 0.859 ms
Loss rate: 0.01%
```

Run 4: Report of Copa — Data Link

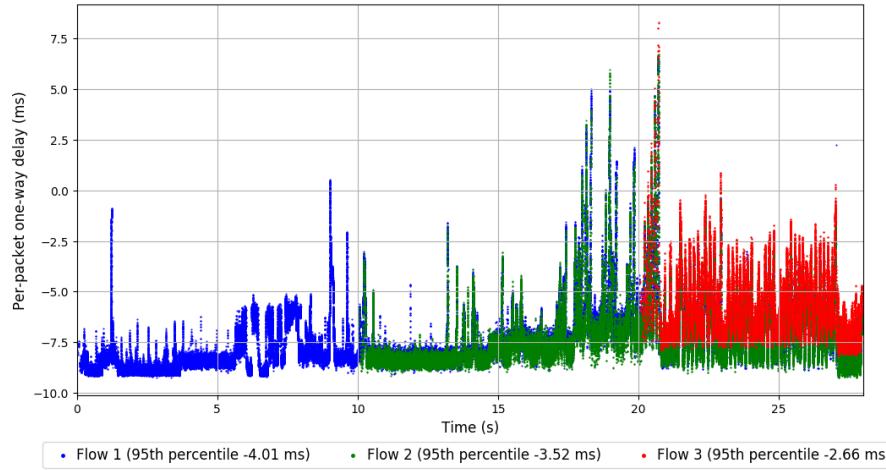
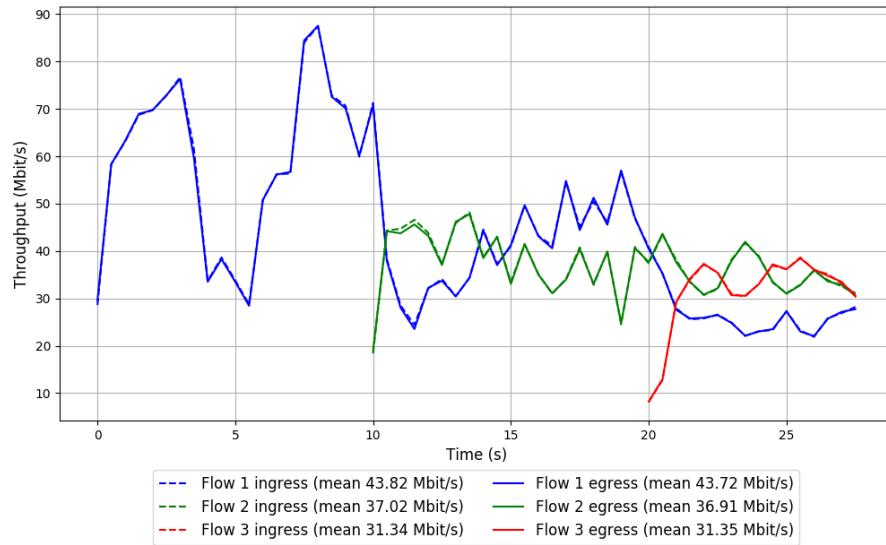


Run 5: Statistics of Copa

```
Start at: 2017-12-20 09:34:36
End at: 2017-12-20 09:35:06
Local clock offset: 4.104 ms
Remote clock offset: -14.561 ms

# Below is generated by plot.py at 2017-12-20 11:51:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.33 Mbit/s
95th percentile per-packet one-way delay: -3.487 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 43.72 Mbit/s
95th percentile per-packet one-way delay: -4.011 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 36.91 Mbit/s
95th percentile per-packet one-way delay: -3.519 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 31.35 Mbit/s
95th percentile per-packet one-way delay: -2.662 ms
Loss rate: 0.01%
```

Run 5: Report of Copa — Data Link

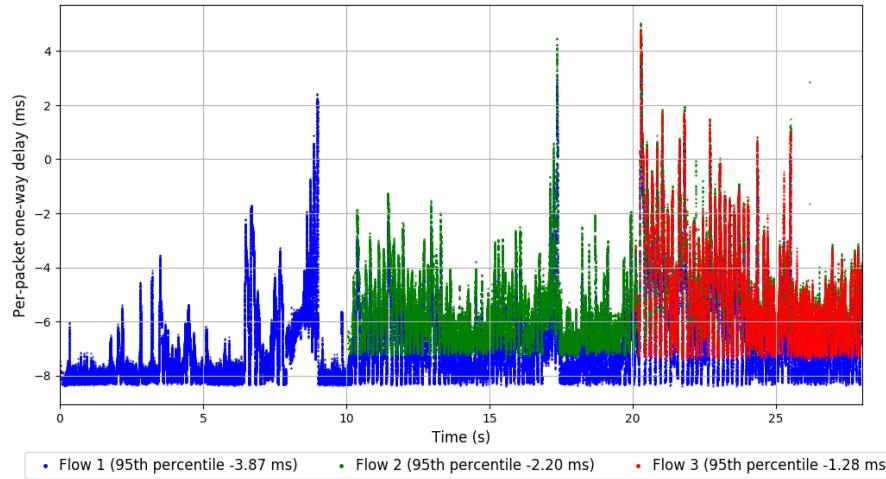
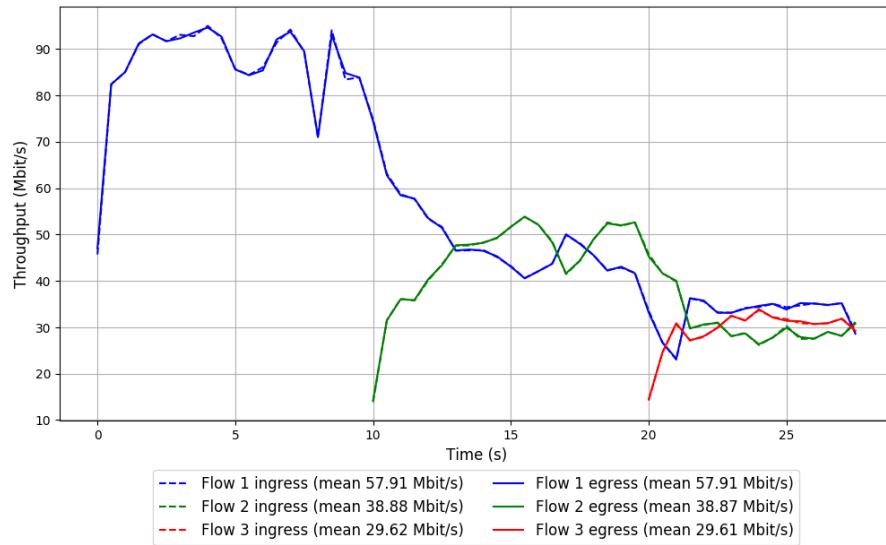


Run 6: Statistics of Copa

```
Start at: 2017-12-20 09:53:19
End at: 2017-12-20 09:53:49
Local clock offset: 2.458 ms
Remote clock offset: -14.686 ms

# Below is generated by plot.py at 2017-12-20 11:52:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.24 Mbit/s
95th percentile per-packet one-way delay: -2.867 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 57.91 Mbit/s
95th percentile per-packet one-way delay: -3.866 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.87 Mbit/s
95th percentile per-packet one-way delay: -2.199 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.61 Mbit/s
95th percentile per-packet one-way delay: -1.279 ms
Loss rate: 0.00%
```

Run 6: Report of Copa — Data Link

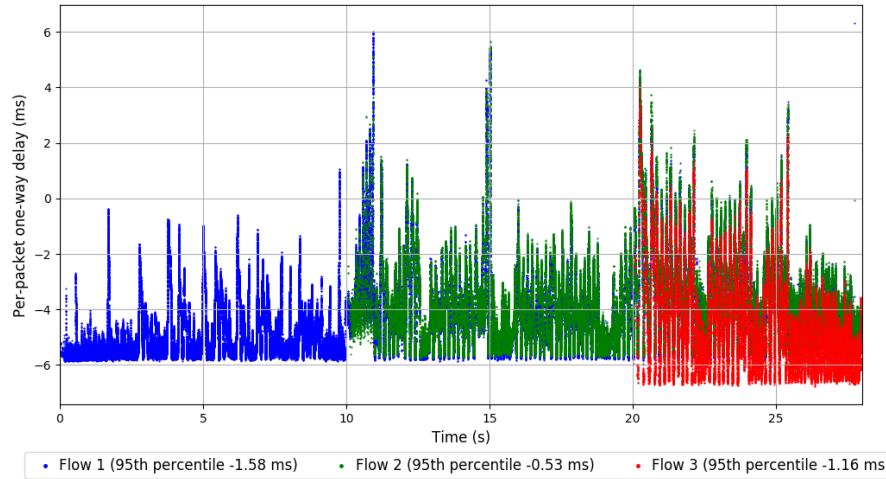
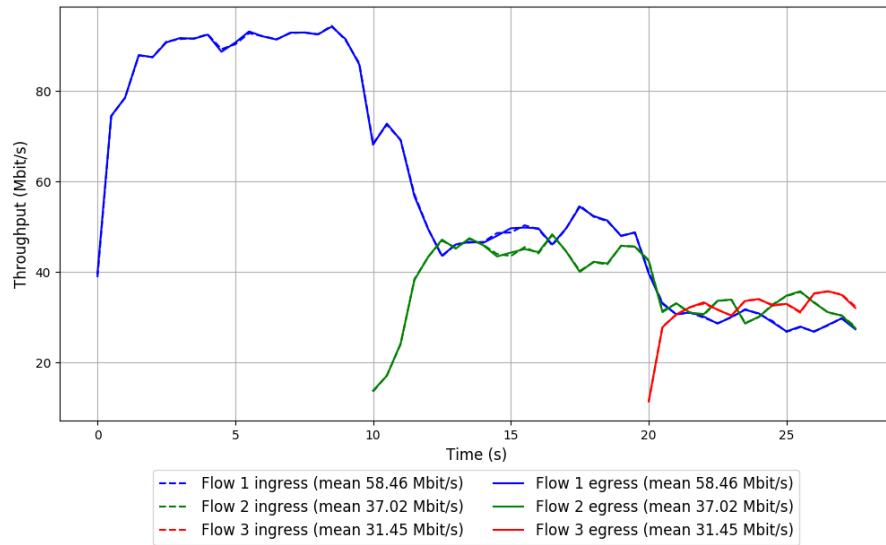


Run 7: Statistics of Copa

```
Start at: 2017-12-20 10:12:15
End at: 2017-12-20 10:12:45
Local clock offset: 2.595 ms
Remote clock offset: -12.748 ms

# Below is generated by plot.py at 2017-12-20 11:52:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.14 Mbit/s
95th percentile per-packet one-way delay: -1.232 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.46 Mbit/s
95th percentile per-packet one-way delay: -1.581 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.02 Mbit/s
95th percentile per-packet one-way delay: -0.530 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 31.45 Mbit/s
95th percentile per-packet one-way delay: -1.163 ms
Loss rate: 0.01%
```

Run 7: Report of Copa — Data Link

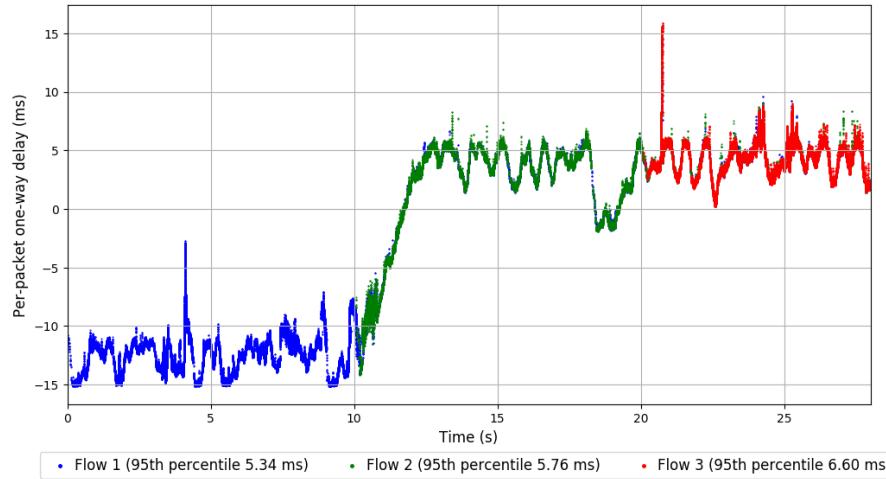
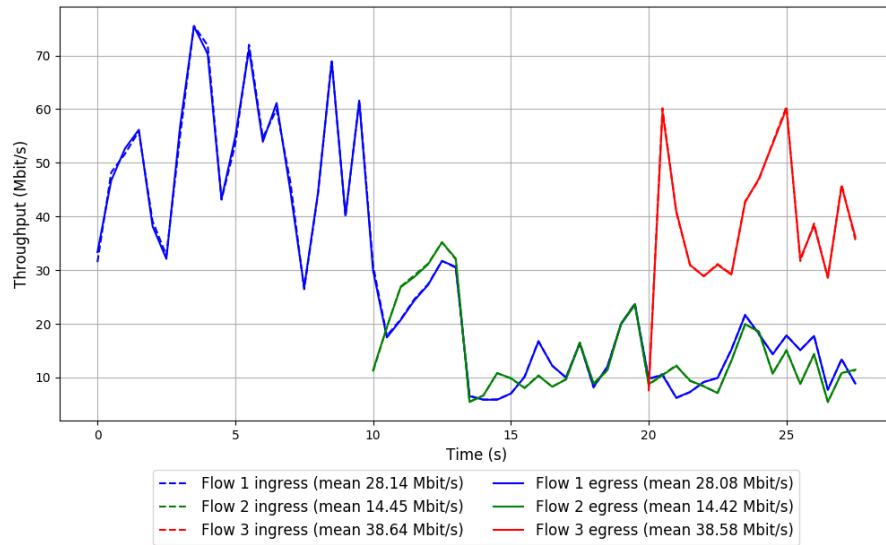


Run 8: Statistics of Copa

```
Start at: 2017-12-20 10:30:33
End at: 2017-12-20 10:31:03
Local clock offset: 1.2 ms
Remote clock offset: -29.185 ms

# Below is generated by plot.py at 2017-12-20 11:52:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.28 Mbit/s
95th percentile per-packet one-way delay: 5.682 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 28.08 Mbit/s
95th percentile per-packet one-way delay: 5.344 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 14.42 Mbit/s
95th percentile per-packet one-way delay: 5.763 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 38.58 Mbit/s
95th percentile per-packet one-way delay: 6.602 ms
Loss rate: 0.19%
```

Run 8: Report of Copa — Data Link

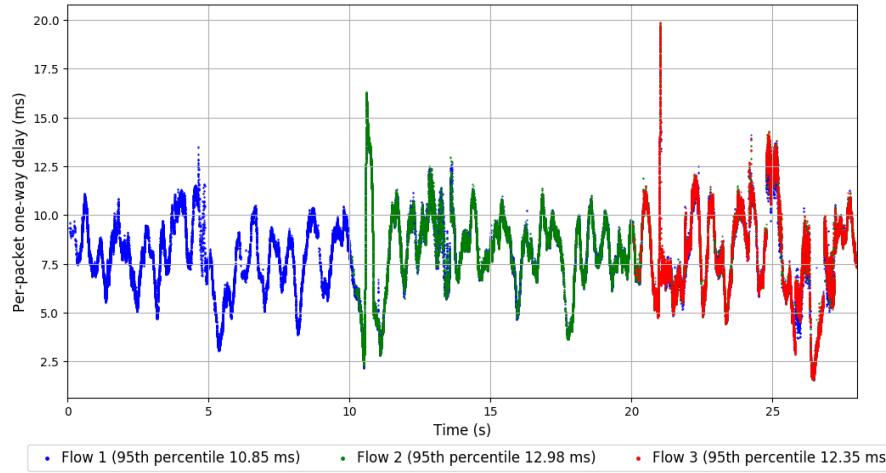
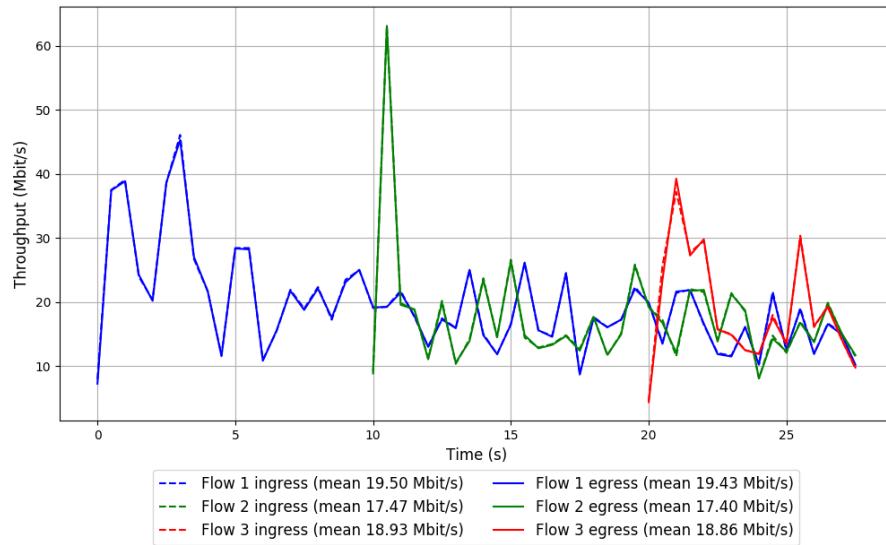


Run 9: Statistics of Copa

```
Start at: 2017-12-20 10:49:49
End at: 2017-12-20 10:50:19
Local clock offset: 0.69 ms
Remote clock offset: -27.225 ms

# Below is generated by plot.py at 2017-12-20 11:52:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.95 Mbit/s
95th percentile per-packet one-way delay: 11.545 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 19.43 Mbit/s
95th percentile per-packet one-way delay: 10.845 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 17.40 Mbit/s
95th percentile per-packet one-way delay: 12.977 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 18.86 Mbit/s
95th percentile per-packet one-way delay: 12.348 ms
Loss rate: 0.40%
```

Run 9: Report of Copa — Data Link

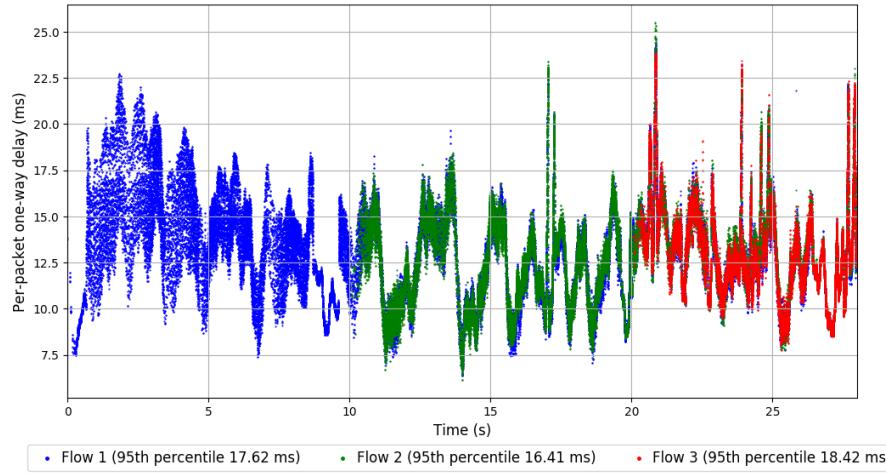
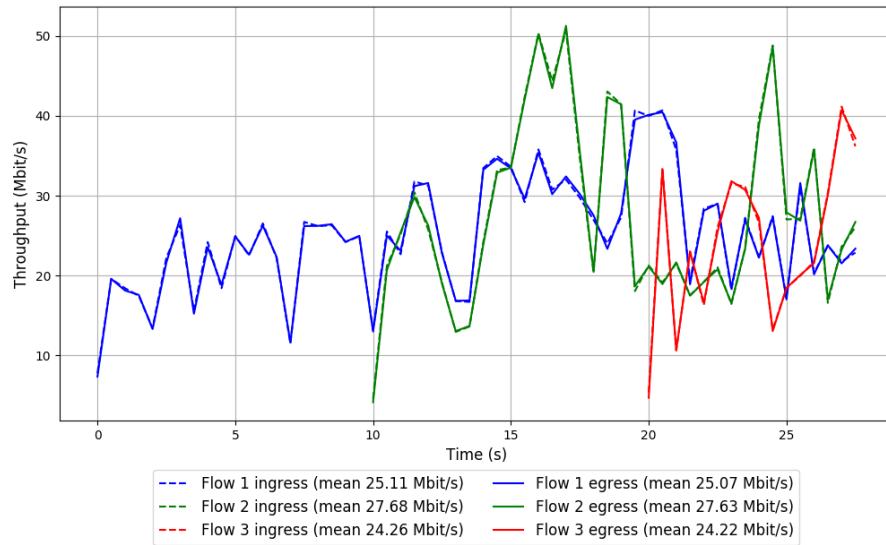


Run 10: Statistics of Copa

```
Start at: 2017-12-20 11:08:01
End at: 2017-12-20 11:08:31
Local clock offset: 1.361 ms
Remote clock offset: -20.613 ms

# Below is generated by plot.py at 2017-12-20 11:52:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.69 Mbit/s
95th percentile per-packet one-way delay: 17.251 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 25.07 Mbit/s
95th percentile per-packet one-way delay: 17.621 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 27.63 Mbit/s
95th percentile per-packet one-way delay: 16.414 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 24.22 Mbit/s
95th percentile per-packet one-way delay: 18.424 ms
Loss rate: 0.17%
```

Run 10: Report of Copa — Data Link

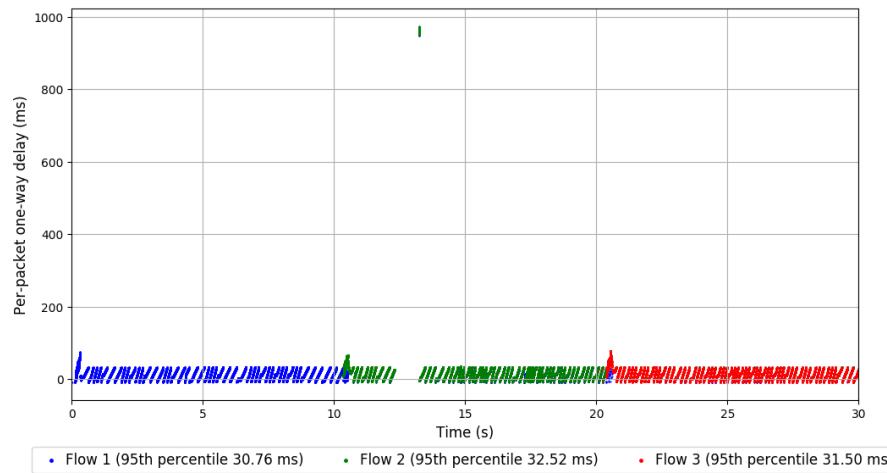
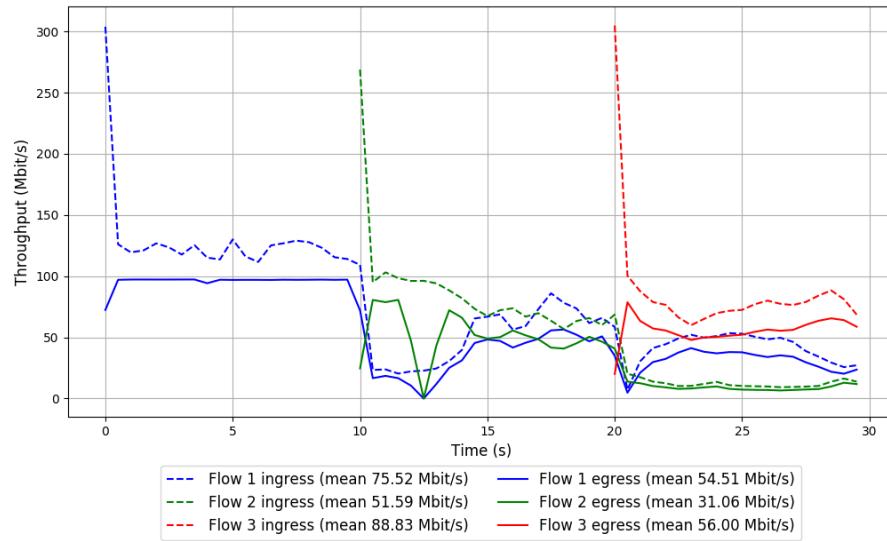


Run 1: Statistics of FillP

```
Start at: 2017-12-20 08:14:25
End at: 2017-12-20 08:14:55
Local clock offset: -1.779 ms
Remote clock offset: -18.296 ms

# Below is generated by plot.py at 2017-12-20 11:53:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.71 Mbit/s
95th percentile per-packet one-way delay: 31.284 ms
Loss rate: 32.65%
-- Flow 1:
Average throughput: 54.51 Mbit/s
95th percentile per-packet one-way delay: 30.759 ms
Loss rate: 27.73%
-- Flow 2:
Average throughput: 31.06 Mbit/s
95th percentile per-packet one-way delay: 32.525 ms
Loss rate: 39.78%
-- Flow 3:
Average throughput: 56.00 Mbit/s
95th percentile per-packet one-way delay: 31.503 ms
Loss rate: 36.96%
```

Run 1: Report of FillP — Data Link

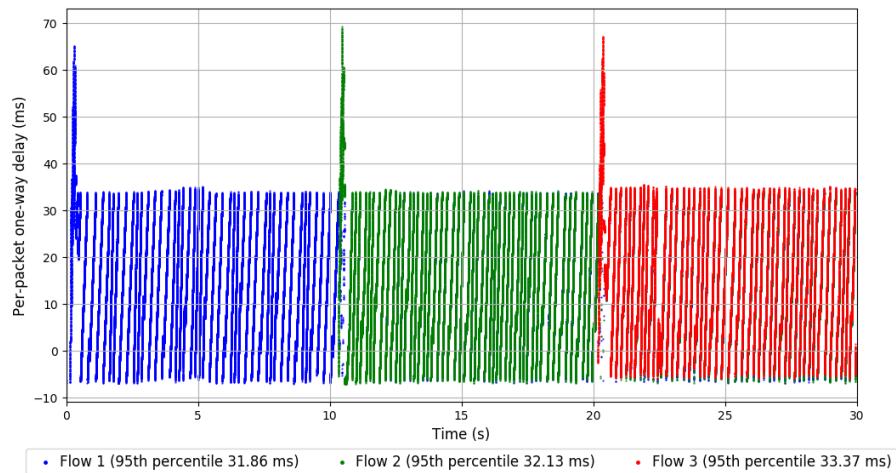
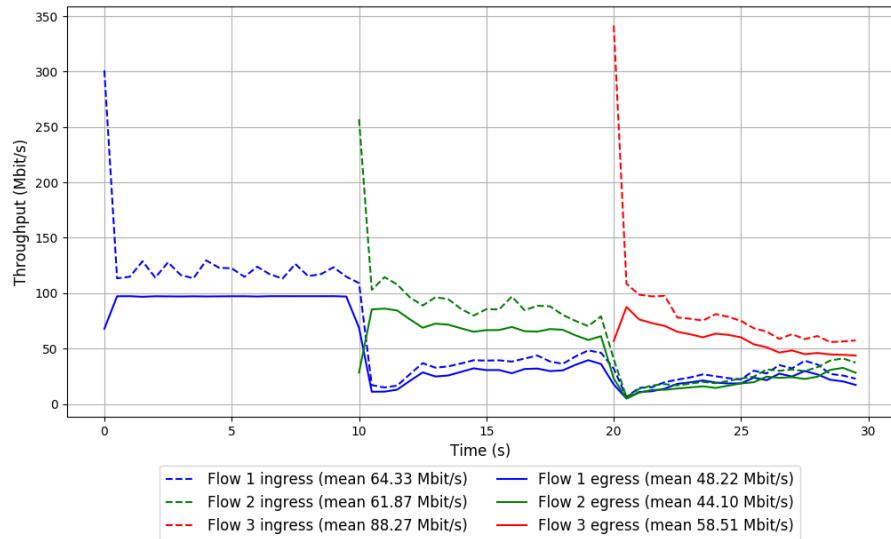


Run 2: Statistics of FillP

```
Start at: 2017-12-20 08:32:28
End at: 2017-12-20 08:32:58
Local clock offset: 2.964 ms
Remote clock offset: -12.474 ms

# Below is generated by plot.py at 2017-12-20 11:53:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.71 Mbit/s
95th percentile per-packet one-way delay: 32.242 ms
Loss rate: 28.23%
-- Flow 1:
Average throughput: 48.22 Mbit/s
95th percentile per-packet one-way delay: 31.864 ms
Loss rate: 25.03%
-- Flow 2:
Average throughput: 44.10 Mbit/s
95th percentile per-packet one-way delay: 32.132 ms
Loss rate: 29.30%
-- Flow 3:
Average throughput: 58.51 Mbit/s
95th percentile per-packet one-way delay: 33.369 ms
Loss rate: 33.75%
```

Run 2: Report of FillP — Data Link

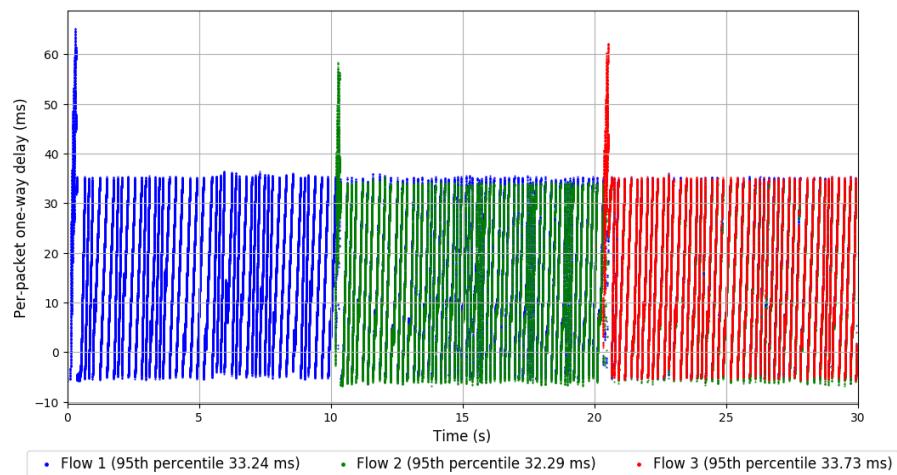
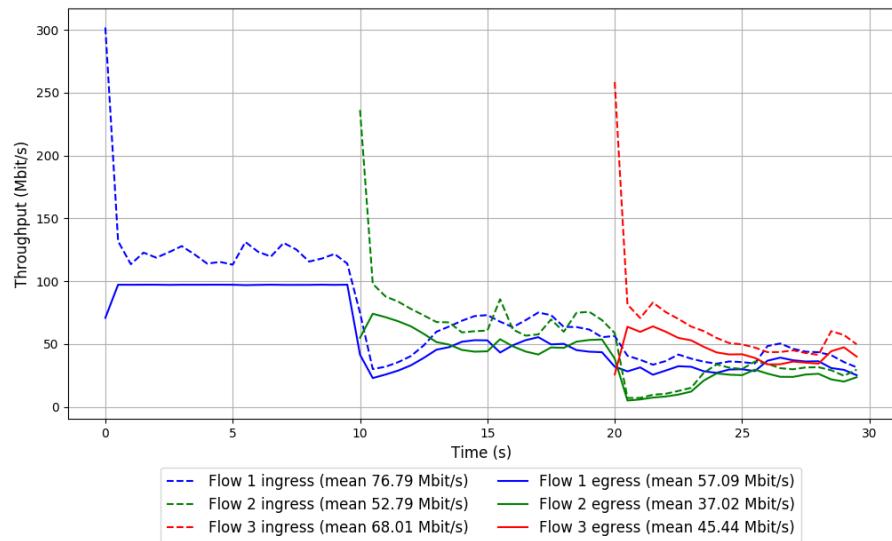


Run 3: Statistics of FillP

```
Start at: 2017-12-20 08:50:27
End at: 2017-12-20 08:50:57
Local clock offset: 3.214 ms
Remote clock offset: -11.714 ms

# Below is generated by plot.py at 2017-12-20 11:53:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.76 Mbit/s
95th percentile per-packet one-way delay: 33.056 ms
Loss rate: 28.03%
-- Flow 1:
Average throughput: 57.09 Mbit/s
95th percentile per-packet one-way delay: 33.239 ms
Loss rate: 25.63%
-- Flow 2:
Average throughput: 37.02 Mbit/s
95th percentile per-packet one-way delay: 32.289 ms
Loss rate: 29.88%
-- Flow 3:
Average throughput: 45.44 Mbit/s
95th percentile per-packet one-way delay: 33.727 ms
Loss rate: 33.30%
```

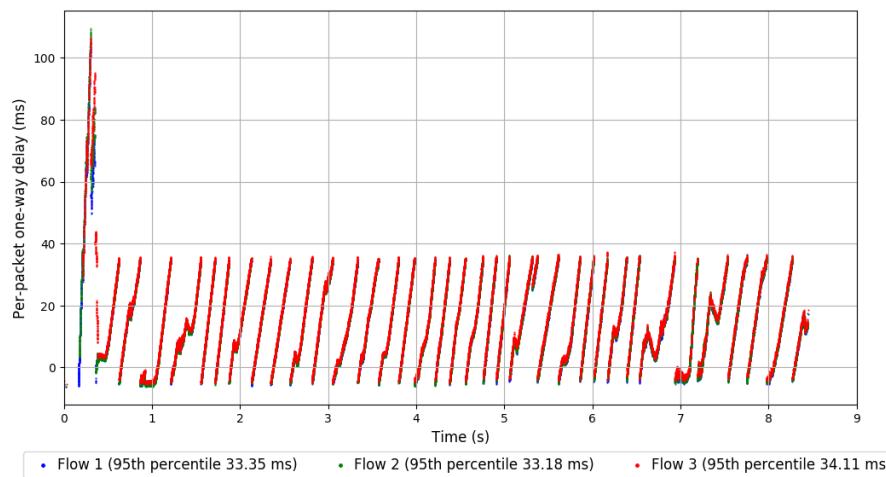
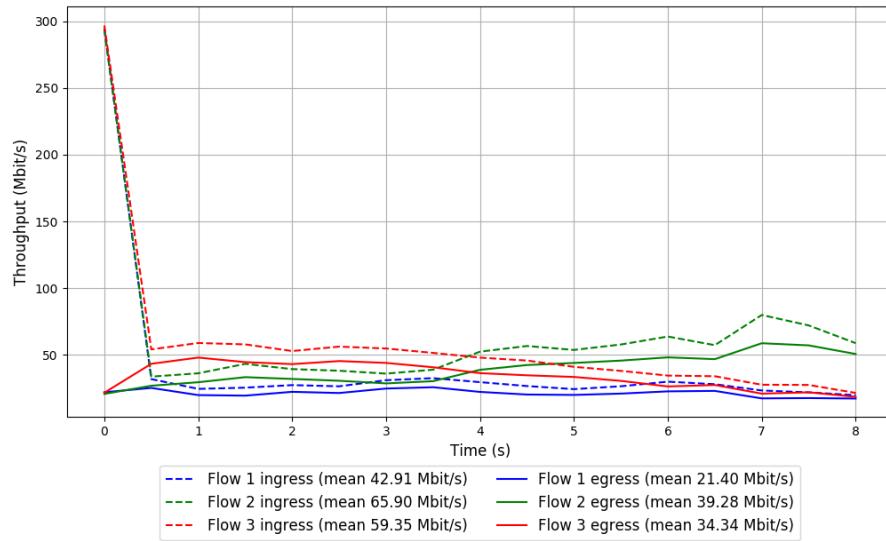
Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2017-12-20 09:09:39
End at: 2017-12-20 09:10:09
Local clock offset: 2.906 ms
Remote clock offset: -12.274 ms

Run 4: Report of FillP — Data Link

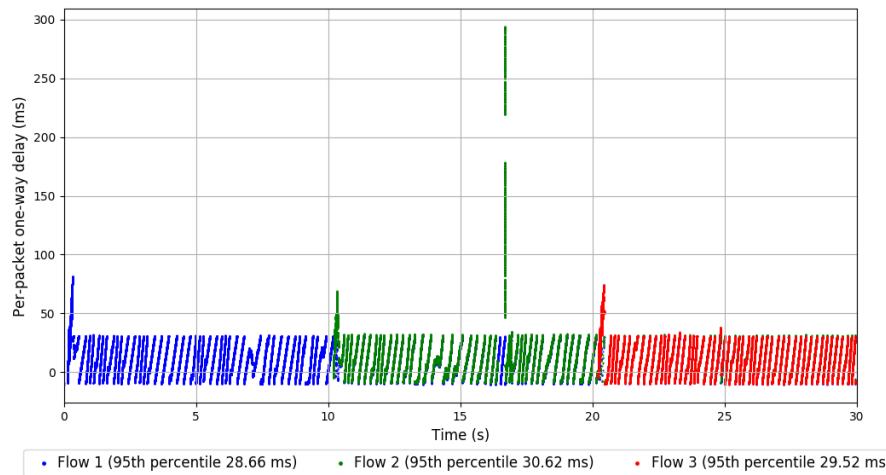
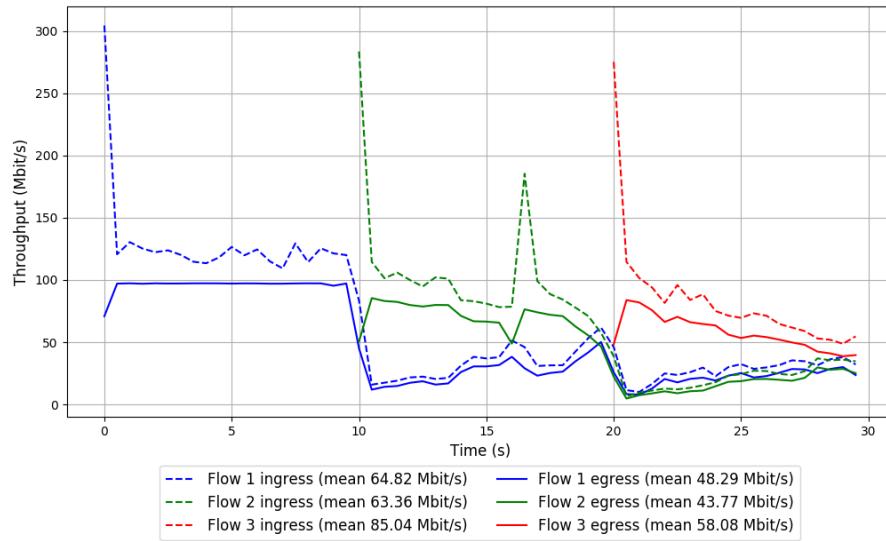


Run 5: Statistics of FillP

```
Start at: 2017-12-20 09:28:24
End at: 2017-12-20 09:28:54
Local clock offset: 4.344 ms
Remote clock offset: -15.76 ms

# Below is generated by plot.py at 2017-12-20 11:53:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.61 Mbit/s
95th percentile per-packet one-way delay: 29.414 ms
Loss rate: 28.54%
-- Flow 1:
Average throughput: 48.29 Mbit/s
95th percentile per-packet one-way delay: 28.665 ms
Loss rate: 25.51%
-- Flow 2:
Average throughput: 43.77 Mbit/s
95th percentile per-packet one-way delay: 30.617 ms
Loss rate: 30.96%
-- Flow 3:
Average throughput: 58.08 Mbit/s
95th percentile per-packet one-way delay: 29.524 ms
Loss rate: 31.88%
```

Run 5: Report of FillP — Data Link

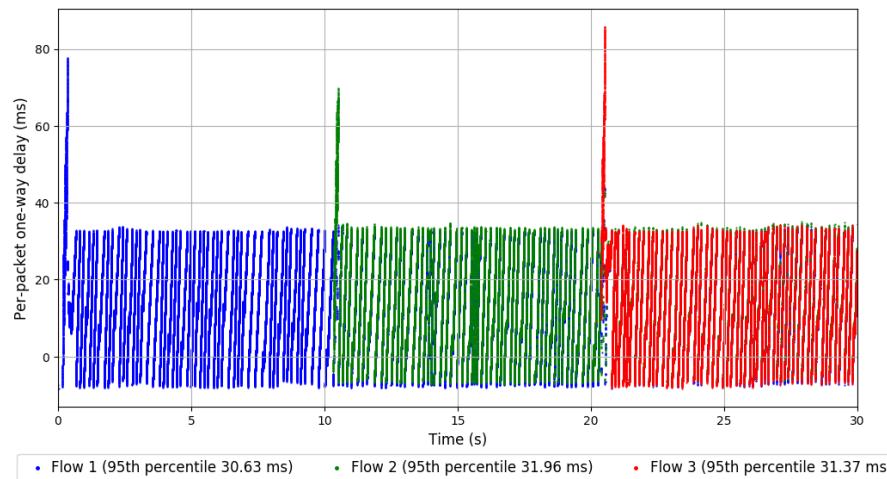
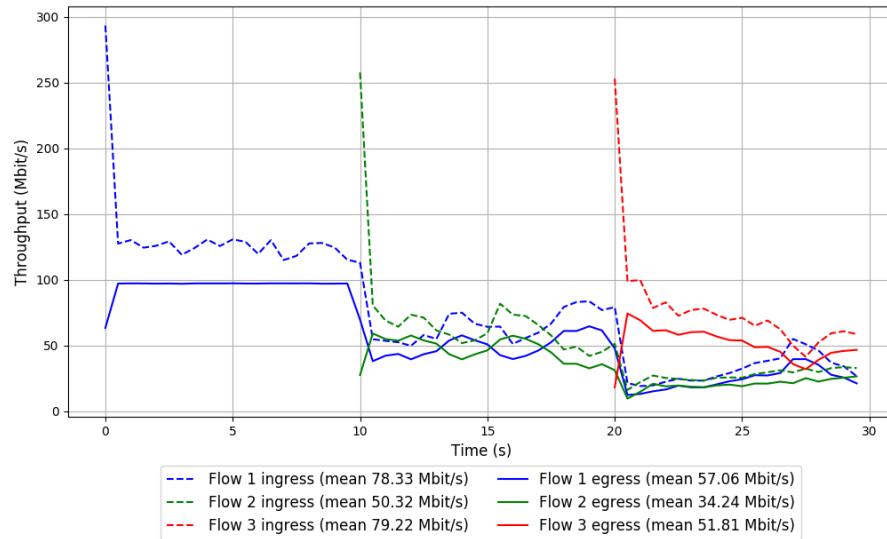


Run 6: Statistics of FillP

```
Start at: 2017-12-20 09:47:06
End at: 2017-12-20 09:47:36
Local clock offset: 3.597 ms
Remote clock offset: -13.669 ms

# Below is generated by plot.py at 2017-12-20 11:53:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.59 Mbit/s
95th percentile per-packet one-way delay: 31.077 ms
Loss rate: 29.96%
-- Flow 1:
Average throughput: 57.06 Mbit/s
95th percentile per-packet one-way delay: 30.630 ms
Loss rate: 27.07%
-- Flow 2:
Average throughput: 34.24 Mbit/s
95th percentile per-packet one-way delay: 31.960 ms
Loss rate: 32.41%
-- Flow 3:
Average throughput: 51.81 Mbit/s
95th percentile per-packet one-way delay: 31.369 ms
Loss rate: 35.48%
```

Run 6: Report of FillP — Data Link

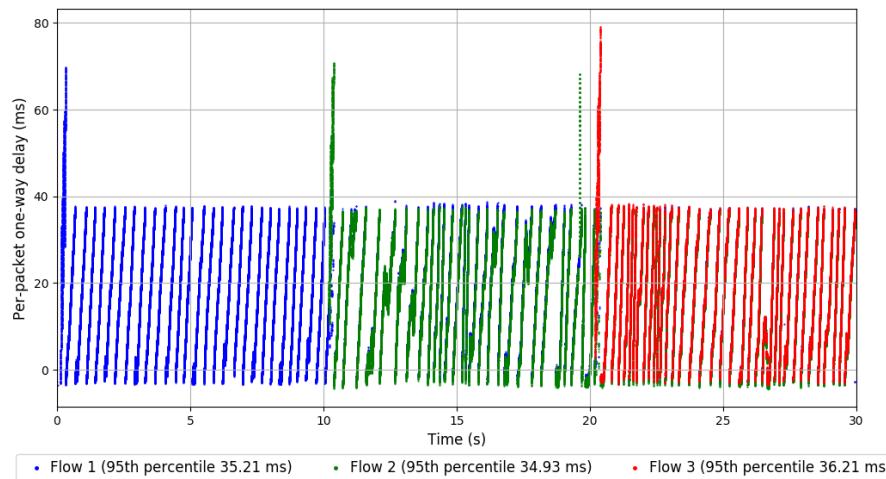
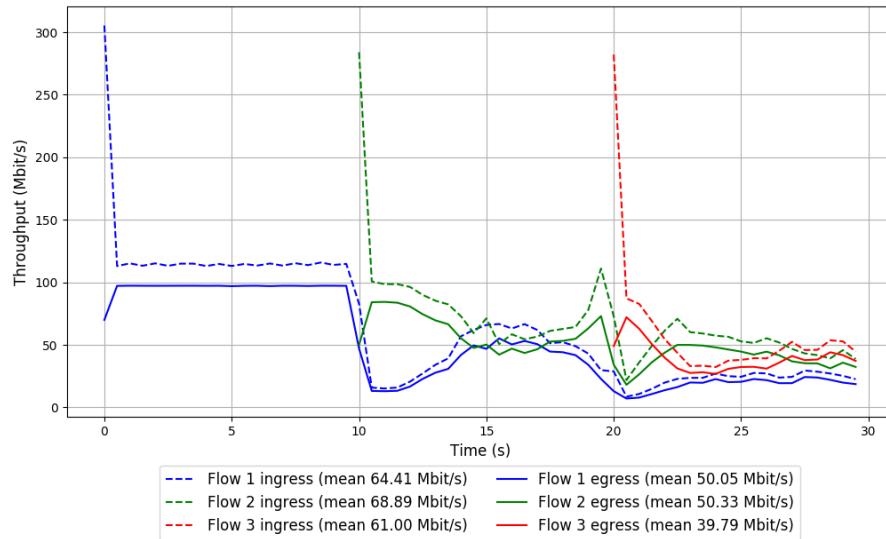


Run 7: Statistics of FillP

```
Start at: 2017-12-20 10:05:38
End at: 2017-12-20 10:06:08
Local clock offset: 4.36 ms
Remote clock offset: -11.978 ms

# Below is generated by plot.py at 2017-12-20 11:54:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.68 Mbit/s
95th percentile per-packet one-way delay: 35.240 ms
Loss rate: 25.93%
-- Flow 1:
Average throughput: 50.05 Mbit/s
95th percentile per-packet one-way delay: 35.209 ms
Loss rate: 22.30%
-- Flow 2:
Average throughput: 50.33 Mbit/s
95th percentile per-packet one-way delay: 34.931 ms
Loss rate: 27.09%
-- Flow 3:
Average throughput: 39.79 Mbit/s
95th percentile per-packet one-way delay: 36.212 ms
Loss rate: 34.83%
```

Run 7: Report of FillP — Data Link

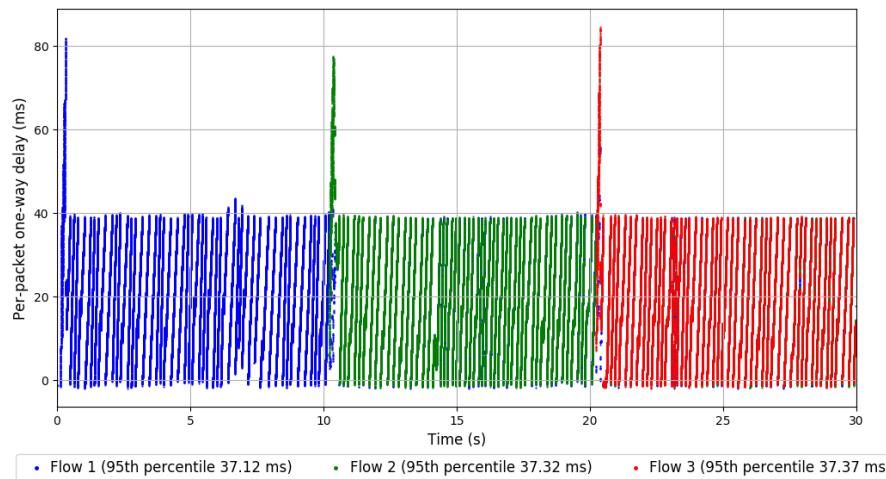
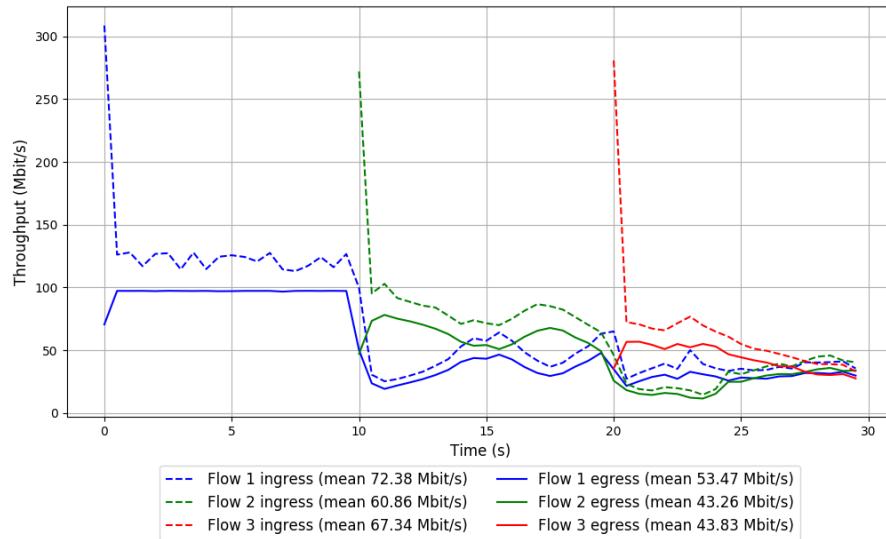


Run 8: Statistics of FillP

```
Start at: 2017-12-20 10:24:14
End at: 2017-12-20 10:24:44
Local clock offset: 1.057 ms
Remote clock offset: -15.914 ms

# Below is generated by plot.py at 2017-12-20 11:54:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.71 Mbit/s
95th percentile per-packet one-way delay: 37.220 ms
Loss rate: 28.44%
-- Flow 1:
Average throughput: 53.47 Mbit/s
95th percentile per-packet one-way delay: 37.121 ms
Loss rate: 26.10%
-- Flow 2:
Average throughput: 43.26 Mbit/s
95th percentile per-packet one-way delay: 37.320 ms
Loss rate: 28.98%
-- Flow 3:
Average throughput: 43.83 Mbit/s
95th percentile per-packet one-way delay: 37.372 ms
Loss rate: 35.08%
```

Run 8: Report of FillP — Data Link

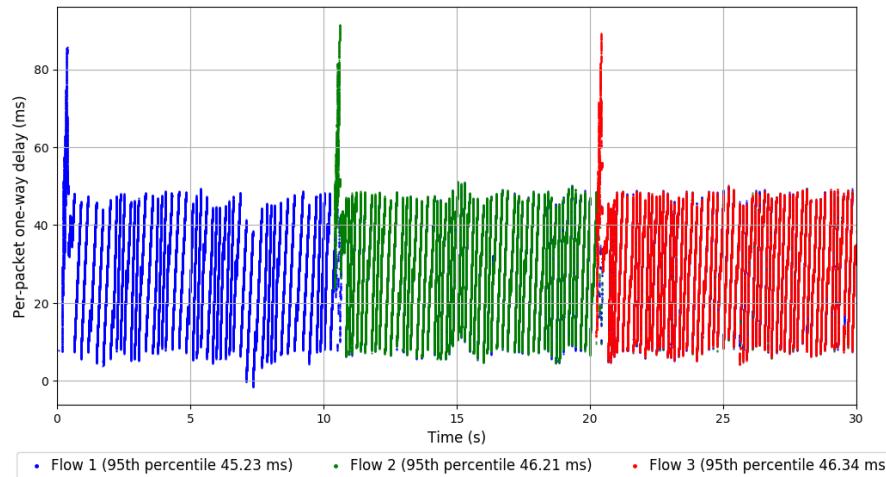
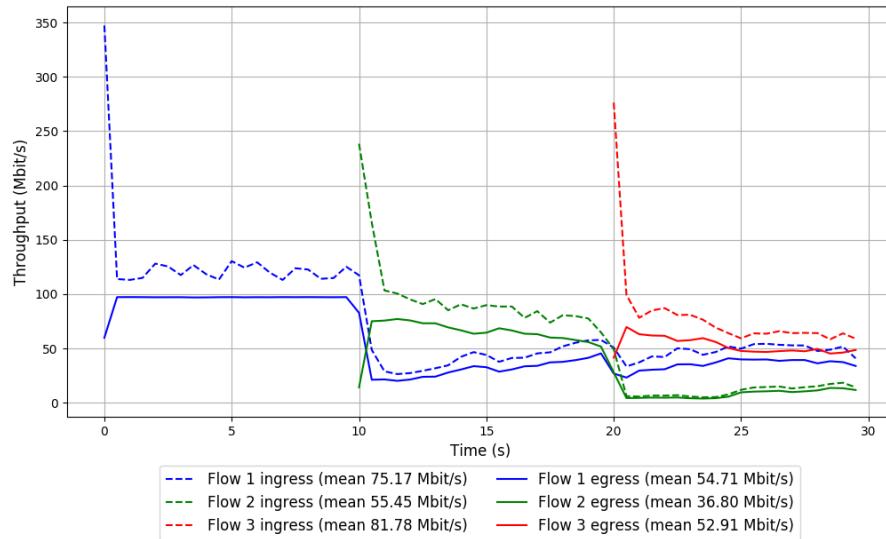


Run 9: Statistics of FillP

```
Start at: 2017-12-20 10:43:18
End at: 2017-12-20 10:43:48
Local clock offset: -6.357 ms
Remote clock offset: -35.162 ms

# Below is generated by plot.py at 2017-12-20 11:54:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.54 Mbit/s
95th percentile per-packet one-way delay: 45.712 ms
Loss rate: 30.57%
-- Flow 1:
Average throughput: 54.71 Mbit/s
95th percentile per-packet one-way delay: 45.233 ms
Loss rate: 27.15%
-- Flow 2:
Average throughput: 36.80 Mbit/s
95th percentile per-packet one-way delay: 46.207 ms
Loss rate: 34.16%
-- Flow 3:
Average throughput: 52.91 Mbit/s
95th percentile per-packet one-way delay: 46.340 ms
Loss rate: 35.18%
```

Run 9: Report of FillP — Data Link

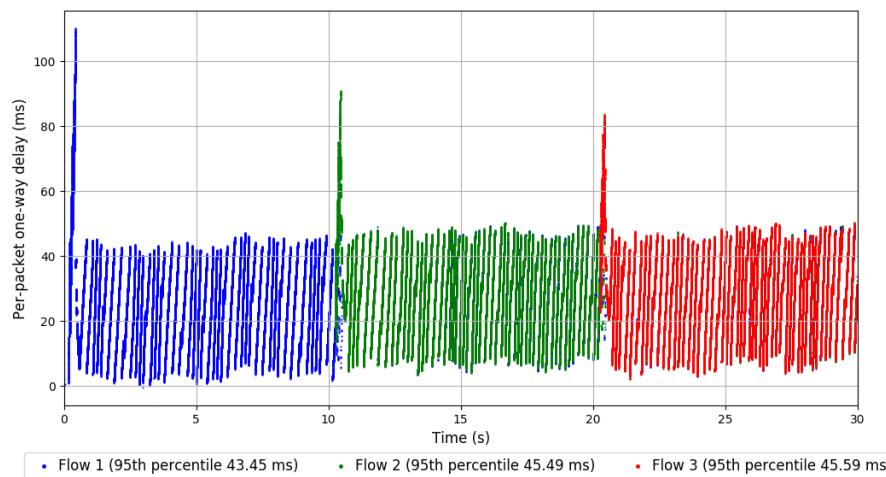
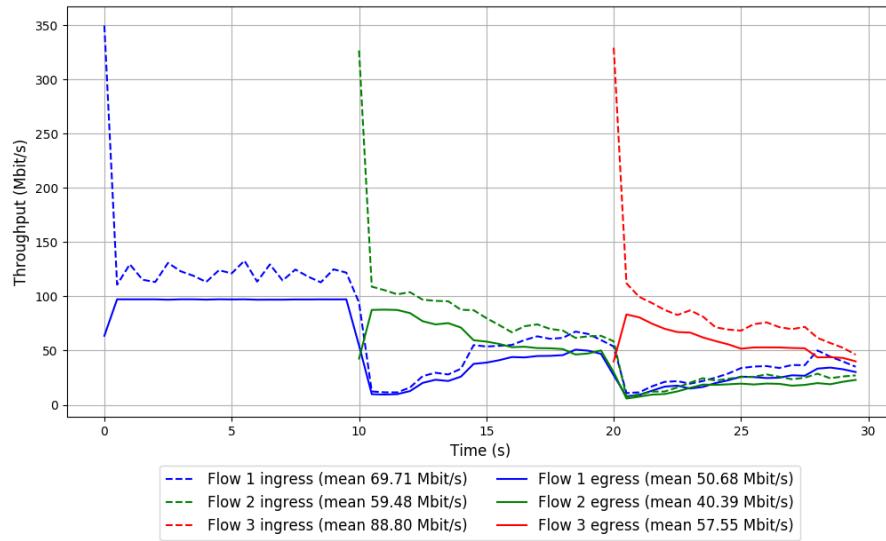


Run 10: Statistics of FillP

```
Start at: 2017-12-20 11:01:44
End at: 2017-12-20 11:02:14
Local clock offset: 2.092 ms
Remote clock offset: -24.876 ms

# Below is generated by plot.py at 2017-12-20 11:54:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.64 Mbit/s
95th percentile per-packet one-way delay: 44.573 ms
Loss rate: 30.27%
-- Flow 1:
Average throughput: 50.68 Mbit/s
95th percentile per-packet one-way delay: 43.454 ms
Loss rate: 27.23%
-- Flow 2:
Average throughput: 40.39 Mbit/s
95th percentile per-packet one-way delay: 45.486 ms
Loss rate: 32.07%
-- Flow 3:
Average throughput: 57.55 Mbit/s
95th percentile per-packet one-way delay: 45.593 ms
Loss rate: 35.06%
```

Run 10: Report of FillP — Data Link

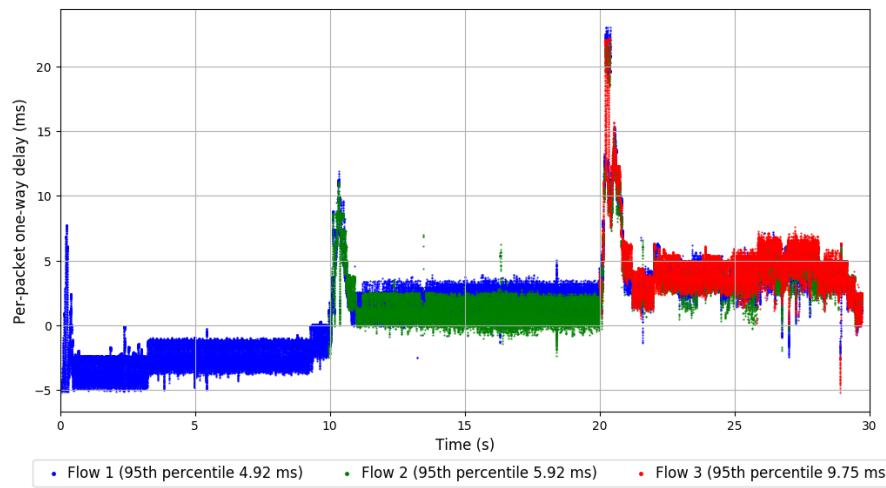
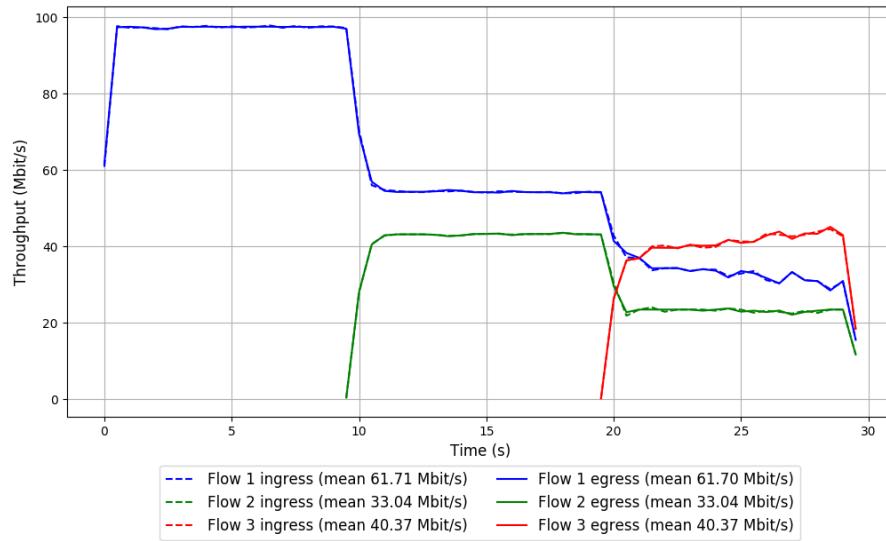


Run 1: Statistics of Indigo

```
Start at: 2017-12-20 08:09:20
End at: 2017-12-20 08:09:50
Local clock offset: 2.394 ms
Remote clock offset: -12.038 ms

# Below is generated by plot.py at 2017-12-20 11:54:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.89 Mbit/s
95th percentile per-packet one-way delay: 6.033 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.70 Mbit/s
95th percentile per-packet one-way delay: 4.919 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 33.04 Mbit/s
95th percentile per-packet one-way delay: 5.921 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 40.37 Mbit/s
95th percentile per-packet one-way delay: 9.747 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

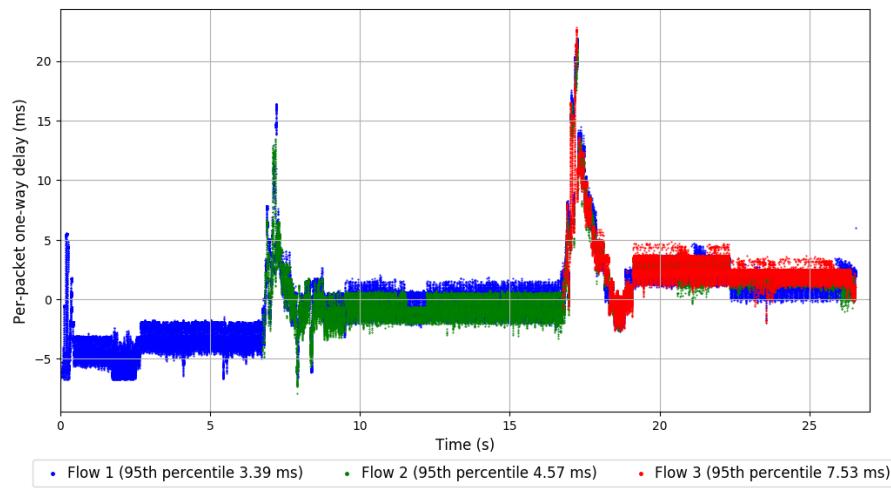
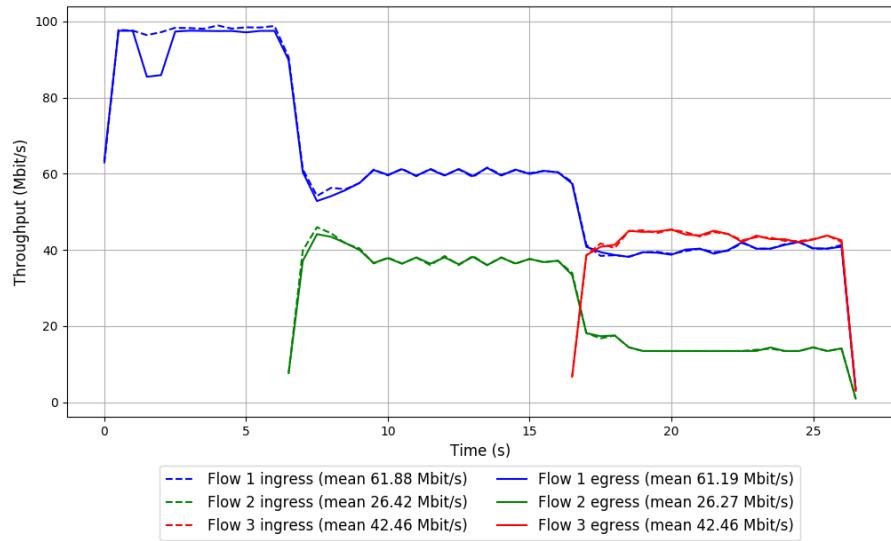


Run 2: Statistics of Indigo

```
Start at: 2017-12-20 08:27:40
End at: 2017-12-20 08:28:10
Local clock offset: 3.448 ms
Remote clock offset: -12.712 ms

# Below is generated by plot.py at 2017-12-20 11:54:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.40 Mbit/s
95th percentile per-packet one-way delay: 4.022 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 61.19 Mbit/s
95th percentile per-packet one-way delay: 3.391 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 26.27 Mbit/s
95th percentile per-packet one-way delay: 4.567 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 42.46 Mbit/s
95th percentile per-packet one-way delay: 7.530 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link

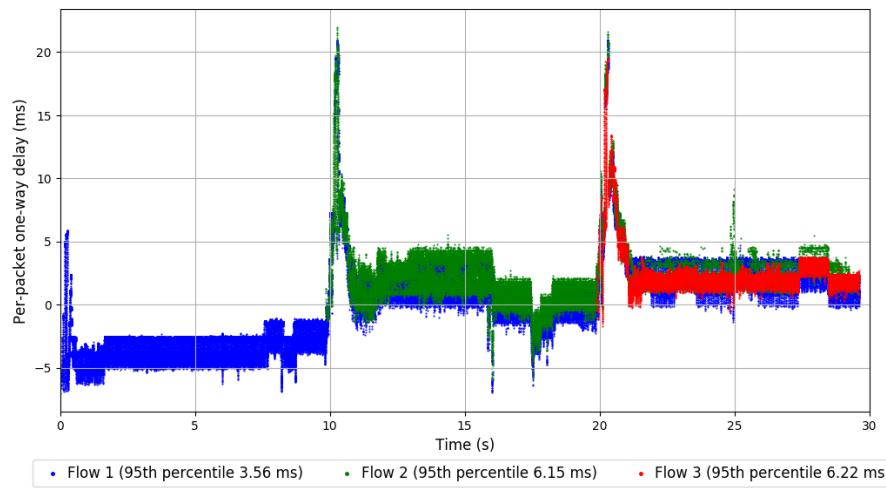
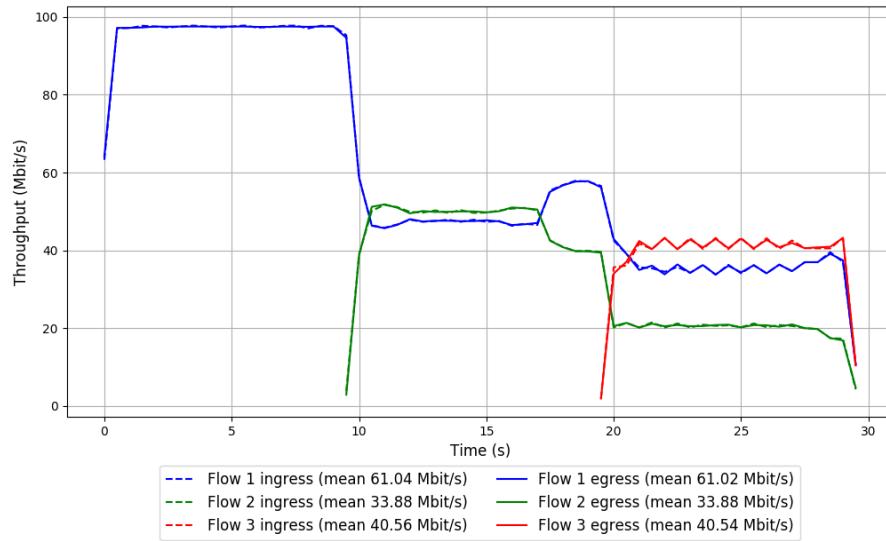


Run 3: Statistics of Indigo

```
Start at: 2017-12-20 08:45:45
End at: 2017-12-20 08:46:15
Local clock offset: 4.427 ms
Remote clock offset: -11.114 ms

# Below is generated by plot.py at 2017-12-20 11:55:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.94 Mbit/s
95th percentile per-packet one-way delay: 4.550 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.02 Mbit/s
95th percentile per-packet one-way delay: 3.555 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 33.88 Mbit/s
95th percentile per-packet one-way delay: 6.151 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 40.54 Mbit/s
95th percentile per-packet one-way delay: 6.218 ms
Loss rate: 0.02%
```

Run 3: Report of Indigo — Data Link

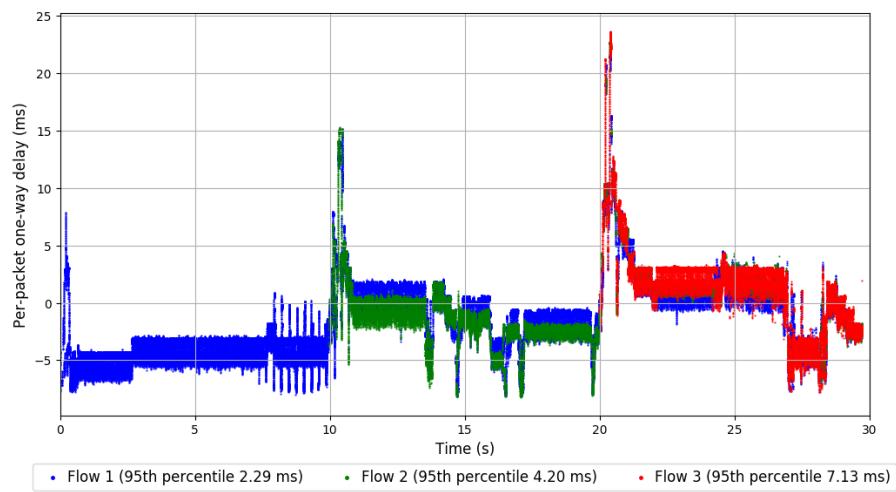
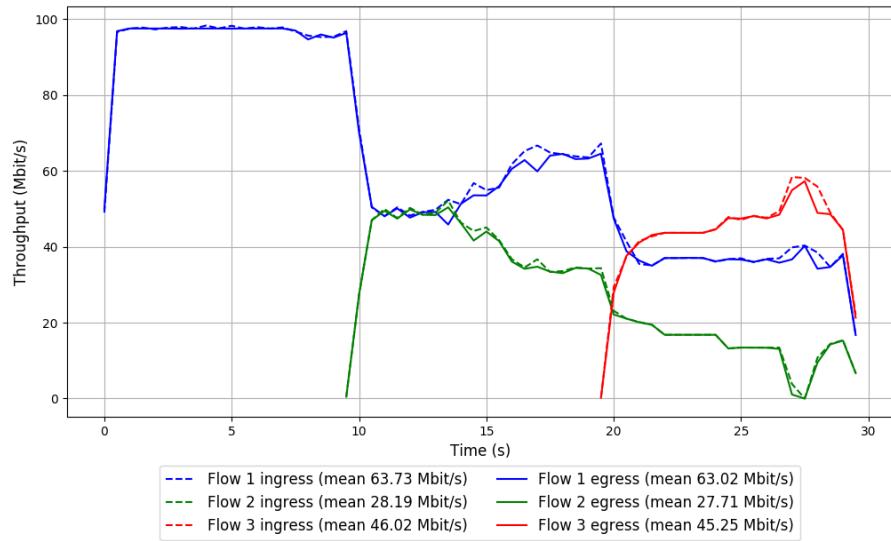


Run 4: Statistics of Indigo

```
Start at: 2017-12-20 09:04:12
End at: 2017-12-20 09:04:42
Local clock offset: 5.247 ms
Remote clock offset: -12.473 ms

# Below is generated by plot.py at 2017-12-20 11:55:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 3.114 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 63.02 Mbit/s
95th percentile per-packet one-way delay: 2.290 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 27.71 Mbit/s
95th percentile per-packet one-way delay: 4.195 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 45.25 Mbit/s
95th percentile per-packet one-way delay: 7.128 ms
Loss rate: 1.65%
```

Run 4: Report of Indigo — Data Link

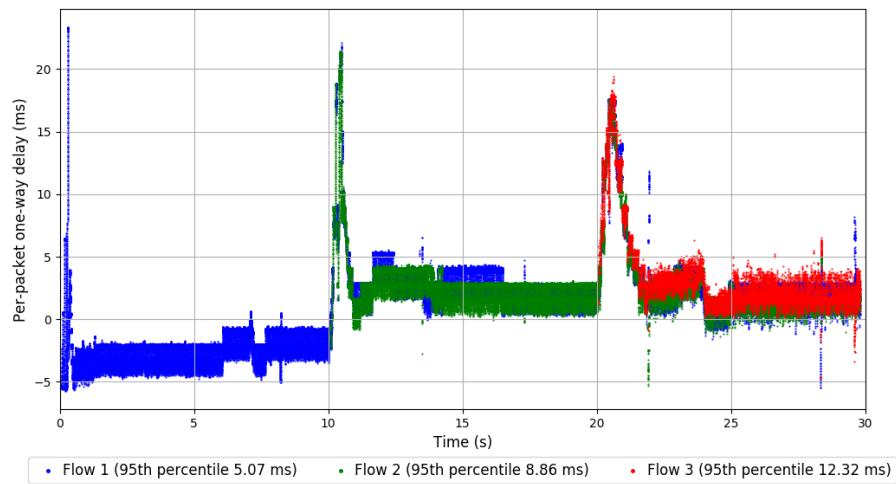
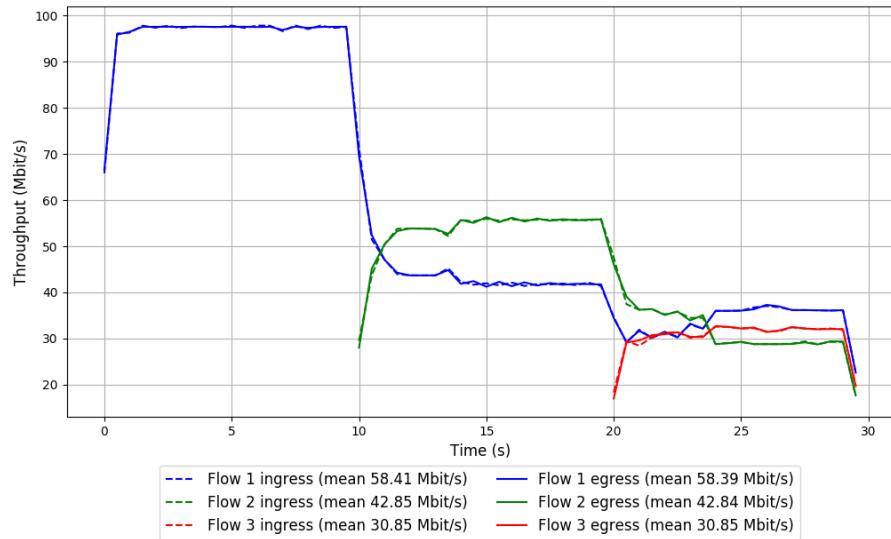


Run 5: Statistics of Indigo

```
Start at: 2017-12-20 09:23:34
End at: 2017-12-20 09:24:04
Local clock offset: 0.936 ms
Remote clock offset: -14.802 ms

# Below is generated by plot.py at 2017-12-20 11:55:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.91 Mbit/s
95th percentile per-packet one-way delay: 6.432 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.39 Mbit/s
95th percentile per-packet one-way delay: 5.074 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 42.84 Mbit/s
95th percentile per-packet one-way delay: 8.856 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.85 Mbit/s
95th percentile per-packet one-way delay: 12.319 ms
Loss rate: 0.02%
```

Run 5: Report of Indigo — Data Link

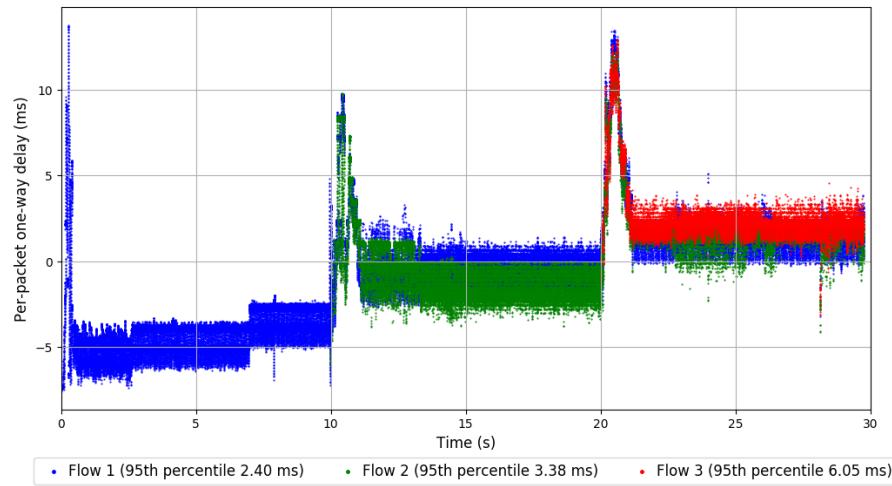
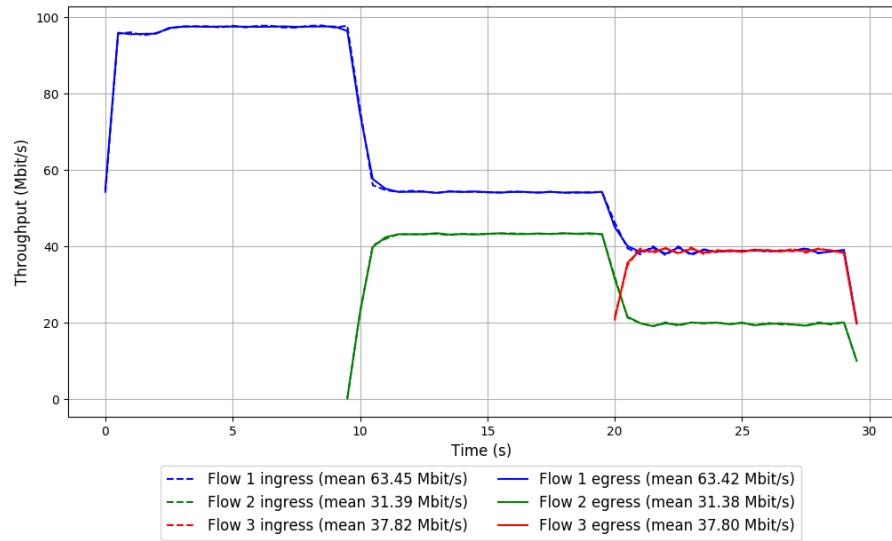


Run 6: Statistics of Indigo

```
Start at: 2017-12-20 09:42:08
End at: 2017-12-20 09:42:38
Local clock offset: 2.197 ms
Remote clock offset: -15.702 ms

# Below is generated by plot.py at 2017-12-20 11:55:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.66 Mbit/s
95th percentile per-packet one-way delay: 3.130 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.42 Mbit/s
95th percentile per-packet one-way delay: 2.402 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 31.38 Mbit/s
95th percentile per-packet one-way delay: 3.385 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 37.80 Mbit/s
95th percentile per-packet one-way delay: 6.052 ms
Loss rate: 0.04%
```

Run 6: Report of Indigo — Data Link

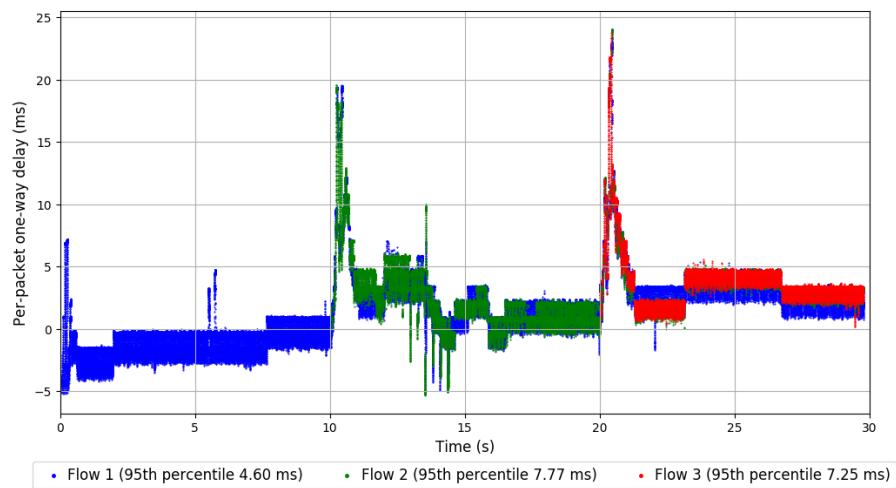
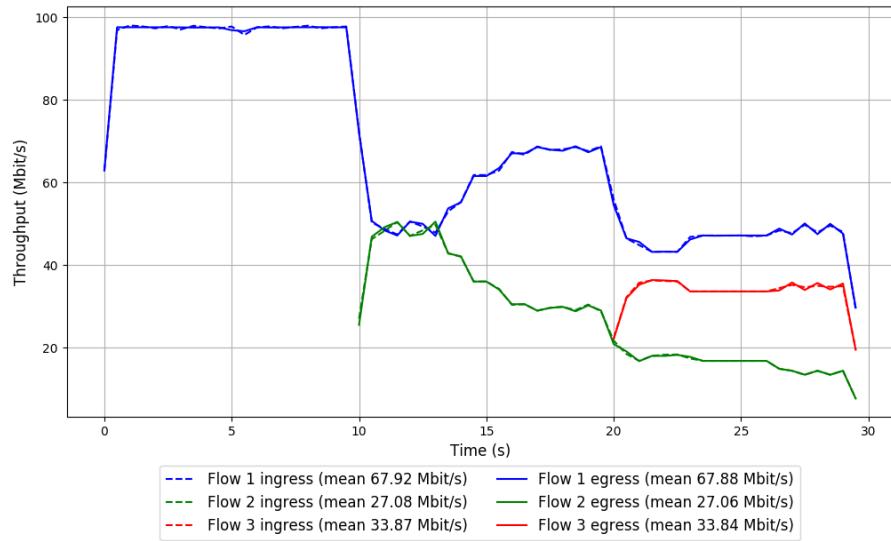


Run 7: Statistics of Indigo

```
Start at: 2017-12-20 10:00:52
End at: 2017-12-20 10:01:22
Local clock offset: 0.691 ms
Remote clock offset: -13.103 ms

# Below is generated by plot.py at 2017-12-20 11:55:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.89 Mbit/s
95th percentile per-packet one-way delay: 5.765 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 67.88 Mbit/s
95th percentile per-packet one-way delay: 4.600 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 27.06 Mbit/s
95th percentile per-packet one-way delay: 7.767 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 33.84 Mbit/s
95th percentile per-packet one-way delay: 7.245 ms
Loss rate: 0.08%
```

Run 7: Report of Indigo — Data Link

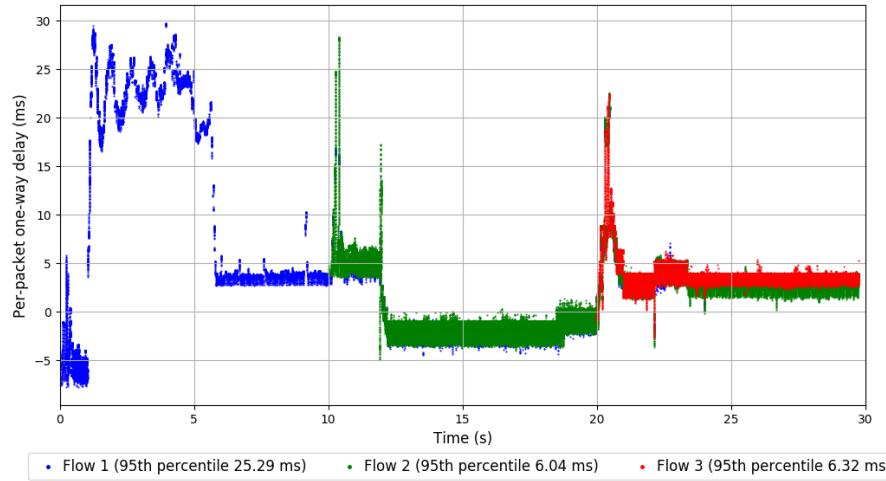
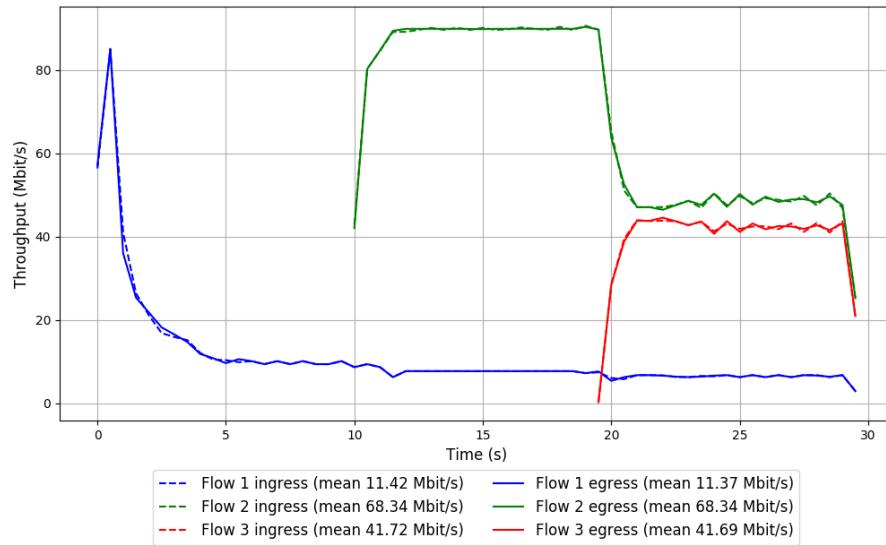


Run 8: Statistics of Indigo

```
Start at: 2017-12-20 10:19:33
End at: 2017-12-20 10:20:03
Local clock offset: 3.313 ms
Remote clock offset: -13.611 ms

# Below is generated by plot.py at 2017-12-20 11:55:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.36 Mbit/s
95th percentile per-packet one-way delay: 10.987 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 11.37 Mbit/s
95th percentile per-packet one-way delay: 25.291 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 68.34 Mbit/s
95th percentile per-packet one-way delay: 6.041 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 41.69 Mbit/s
95th percentile per-packet one-way delay: 6.322 ms
Loss rate: 0.02%
```

Run 8: Report of Indigo — Data Link

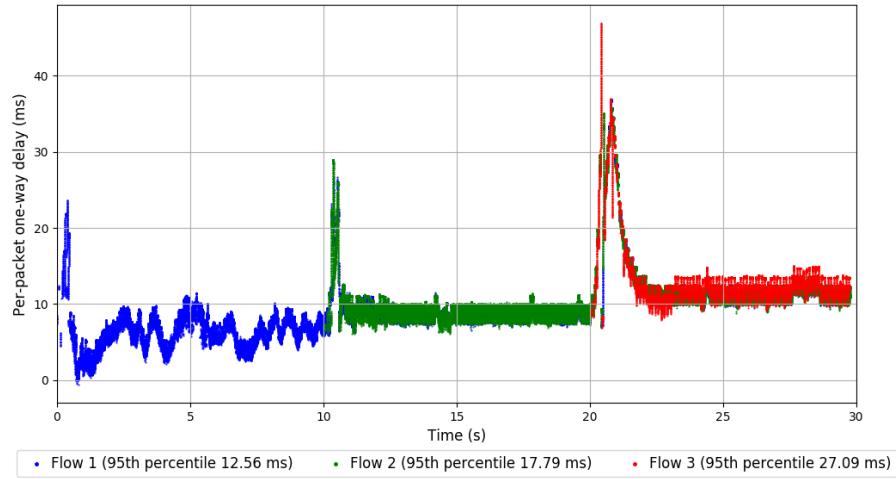
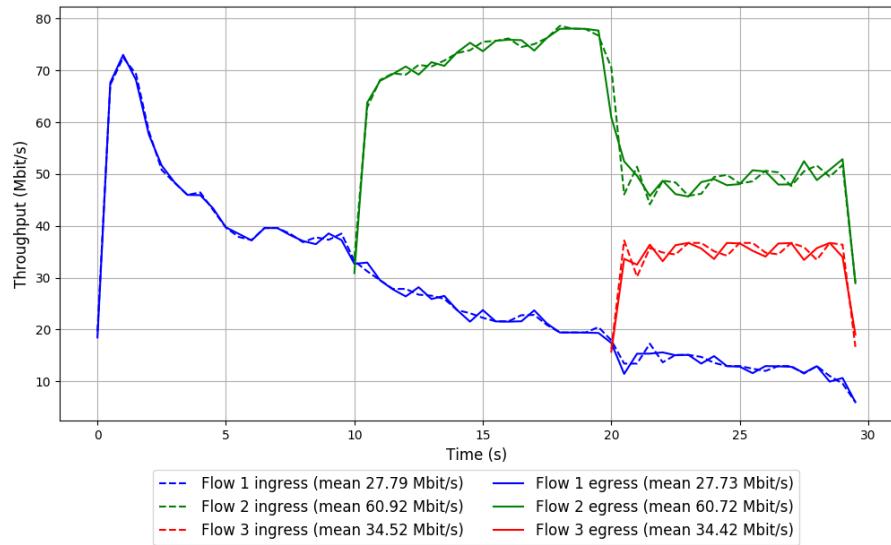


Run 9: Statistics of Indigo

```
Start at: 2017-12-20 10:38:22
End at: 2017-12-20 10:38:52
Local clock offset: 2.913 ms
Remote clock offset: -27.05 ms

# Below is generated by plot.py at 2017-12-20 11:55:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.25 Mbit/s
95th percentile per-packet one-way delay: 17.040 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 27.73 Mbit/s
95th percentile per-packet one-way delay: 12.563 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 60.72 Mbit/s
95th percentile per-packet one-way delay: 17.791 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 34.42 Mbit/s
95th percentile per-packet one-way delay: 27.088 ms
Loss rate: 0.25%
```

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

```
Start at: 2017-12-20 10:57:05
End at: 2017-12-20 10:57:35
Local clock offset: 2.335 ms
Remote clock offset: -26.27 ms

# Below is generated by plot.py at 2017-12-20 11:55:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.20 Mbit/s
95th percentile per-packet one-way delay: 1.521 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 43.29 Mbit/s
95th percentile per-packet one-way delay: -0.998 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 48.31 Mbit/s
95th percentile per-packet one-way delay: 3.581 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 36.33 Mbit/s
95th percentile per-packet one-way delay: 5.440 ms
Loss rate: 0.77%
```

Run 10: Report of Indigo — Data Link

