

Pantheon Report

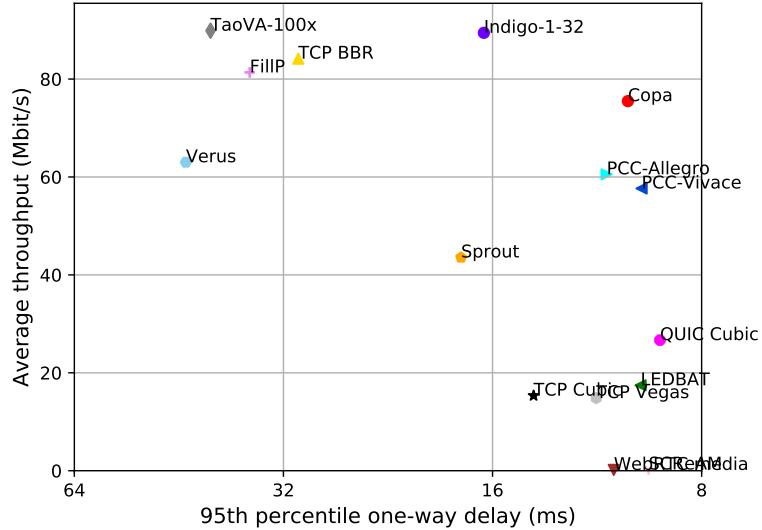
Generated at 2018-04-25 00:31:15 (UTC).
Data path: AWS India 1 Ethernet (*local*) → India Ethernet (*remote*).
Repeated the test of 16 congestion control schemes 10 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.
Increased UDP receive buffer to 16 MB (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:

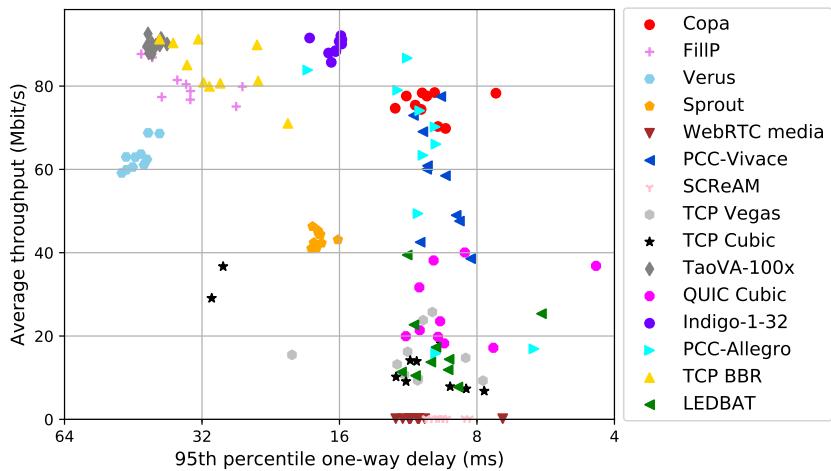
```
branch: master @ 114e807ac1bad7b85168ceb1f8a969063ee6c12c
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
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/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
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/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
```

third_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581

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	52.59	33.39	28.19	28.84	32.83	28.35	9.43	9.52	9.86
TCP Cubic	10	7.77	7.73	7.33	10.40	13.23	13.62	2.30	2.40	2.70
LEDBAT	10	8.75	9.29	8.36	9.56	9.26	10.03	2.35	2.34	2.89
PCC-Allegro	10	49.80	12.92	6.53	10.74	11.25	10.64	6.66	7.07	7.51
QUIC Cubic	10	14.16	12.43	13.00	8.58	9.13	10.35	2.27	2.84	3.53
SCReAM	10	0.12	0.11	0.16	9.14	8.80	9.28	1.70	1.91	1.66
WebRTC media	10	0.06	0.06	0.05	10.37	10.75	10.43	0.41	2.22	3.09
Sprout	10	22.08	21.45	21.85	17.39	17.79	17.66	5.65	6.71	5.46
TaoVA-100x	10	54.21	38.09	31.01	36.38	41.89	44.45	12.93	16.79	21.13
TCP Vegas	10	7.83	7.04	6.94	11.23	12.55	10.29	1.70	2.28	1.77
Verus	10	39.74	28.37	16.18	43.41	44.64	42.56	42.47	46.03	50.67
Copa	10	41.41	37.06	28.35	9.96	10.22	10.22	9.03	9.88	14.42
FillP	10	40.58	35.85	51.04	32.05	39.10	32.71	15.56	19.21	16.45
Indigo-1-32	10	51.68	39.46	35.50	15.60	16.44	17.96	10.45	10.96	11.78
PCC-Vivace	10	39.43	22.01	10.91	9.57	9.99	9.95	6.25	6.82	7.03
PCC-Expr	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

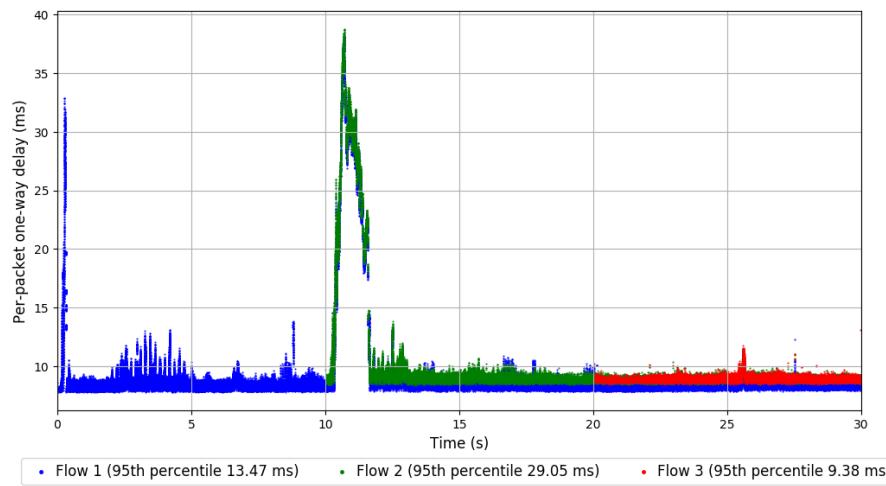
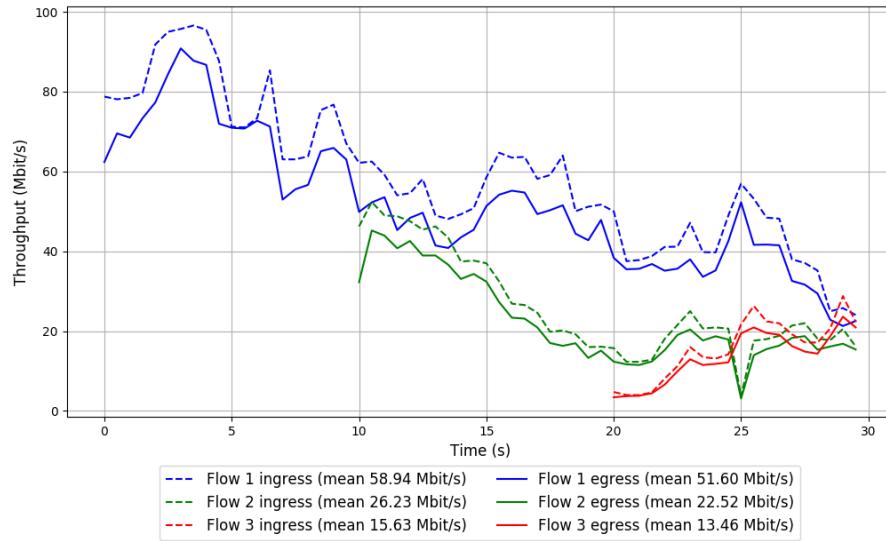
↳

Run 1: Statistics of TCP BBR

```
Start at: 2018-04-24 20:38:29
End at: 2018-04-24 20:38:59
Local clock offset: 0.211 ms
Remote clock offset: -9.81 ms

# Below is generated by plot.py at 2018-04-25 00:14:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.06 Mbit/s
95th percentile per-packet one-way delay: 20.758 ms
Loss rate: 12.90%
-- Flow 1:
Average throughput: 51.60 Mbit/s
95th percentile per-packet one-way delay: 13.474 ms
Loss rate: 12.46%
-- Flow 2:
Average throughput: 22.52 Mbit/s
95th percentile per-packet one-way delay: 29.052 ms
Loss rate: 14.13%
-- Flow 3:
Average throughput: 13.46 Mbit/s
95th percentile per-packet one-way delay: 9.377 ms
Loss rate: 13.85%
```

Run 1: Report of TCP BBR — Data Link

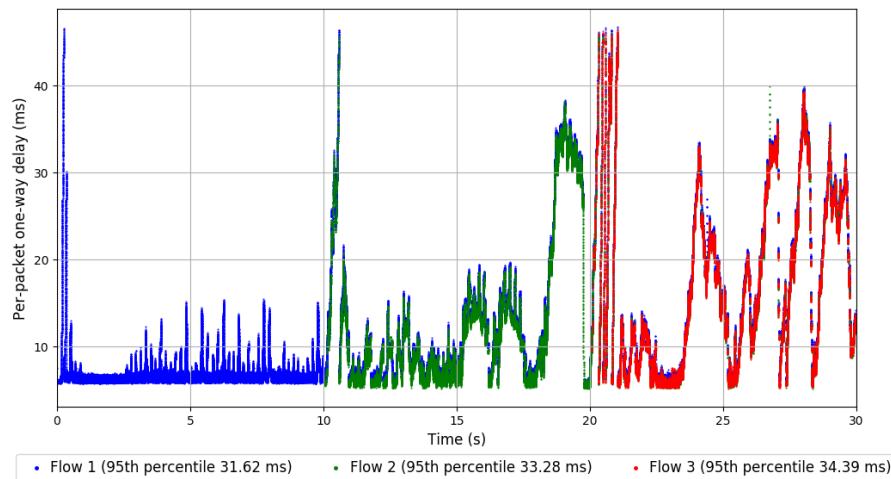
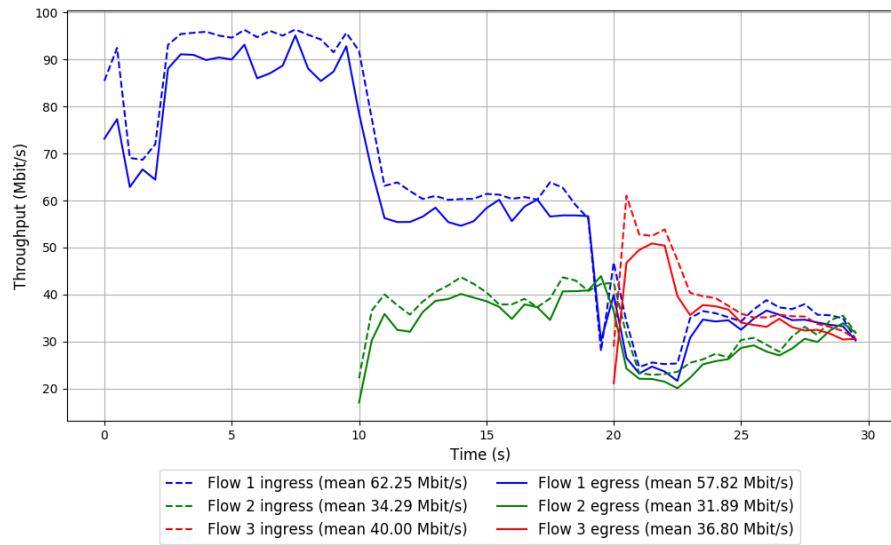


Run 2: Statistics of TCP BBR

```
Start at: 2018-04-24 20:58:12
End at: 2018-04-24 20:58:42
Local clock offset: 4.763 ms
Remote clock offset: -10.533 ms

# Below is generated by plot.py at 2018-04-25 00:14:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.27 Mbit/s
95th percentile per-packet one-way delay: 32.598 ms
Loss rate: 7.19%
-- Flow 1:
Average throughput: 57.82 Mbit/s
95th percentile per-packet one-way delay: 31.620 ms
Loss rate: 7.10%
-- Flow 2:
Average throughput: 31.89 Mbit/s
95th percentile per-packet one-way delay: 33.278 ms
Loss rate: 6.97%
-- Flow 3:
Average throughput: 36.80 Mbit/s
95th percentile per-packet one-way delay: 34.391 ms
Loss rate: 7.97%
```

Run 2: Report of TCP BBR — Data Link

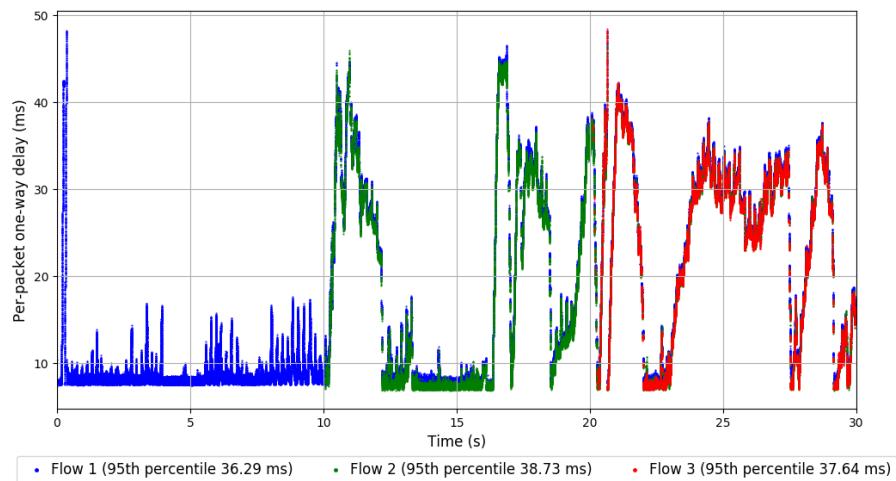
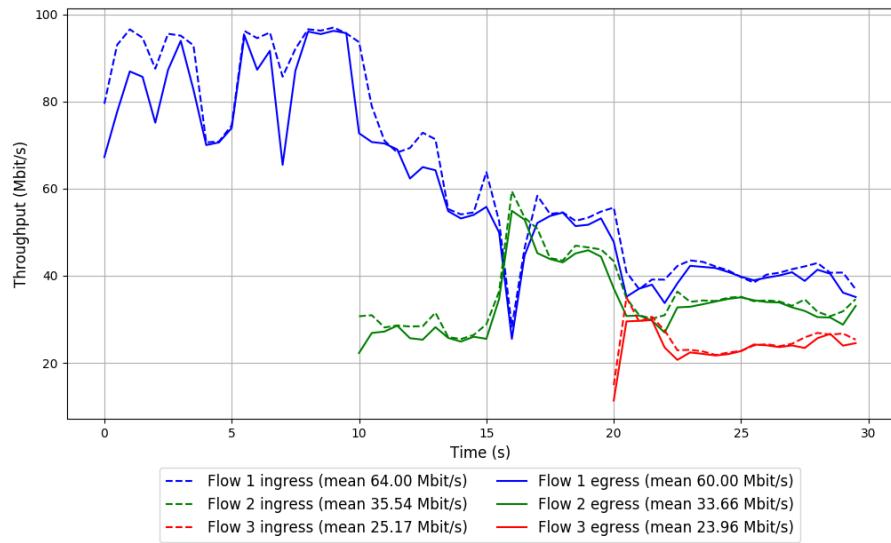


Run 3: Statistics of TCP BBR

```
Start at: 2018-04-24 21:17:46
End at: 2018-04-24 21:18:16
Local clock offset: 1.063 ms
Remote clock offset: -11.299 ms

# Below is generated by plot.py at 2018-04-25 00:14:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.35 Mbit/s
95th percentile per-packet one-way delay: 37.014 ms
Loss rate: 5.88%
-- Flow 1:
Average throughput: 60.00 Mbit/s
95th percentile per-packet one-way delay: 36.287 ms
Loss rate: 6.22%
-- Flow 2:
Average throughput: 33.66 Mbit/s
95th percentile per-packet one-way delay: 38.734 ms
Loss rate: 5.26%
-- Flow 3:
Average throughput: 23.96 Mbit/s
95th percentile per-packet one-way delay: 37.640 ms
Loss rate: 5.01%
```

Run 3: Report of TCP BBR — Data Link

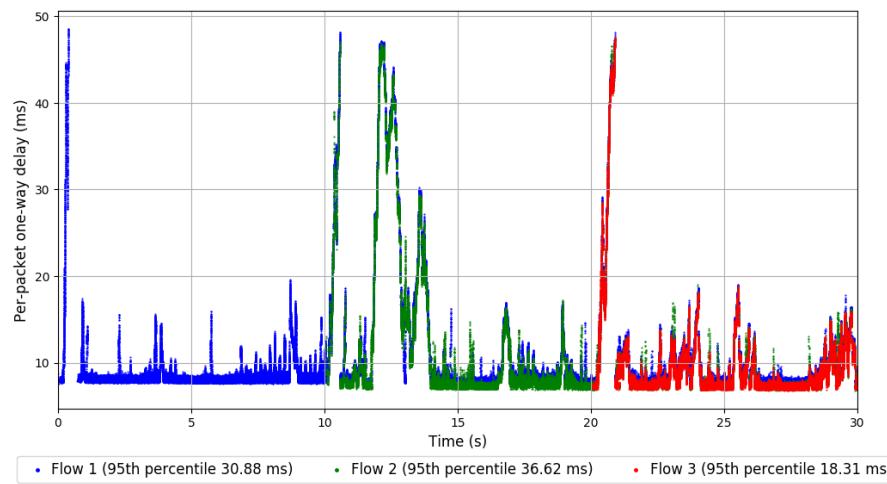
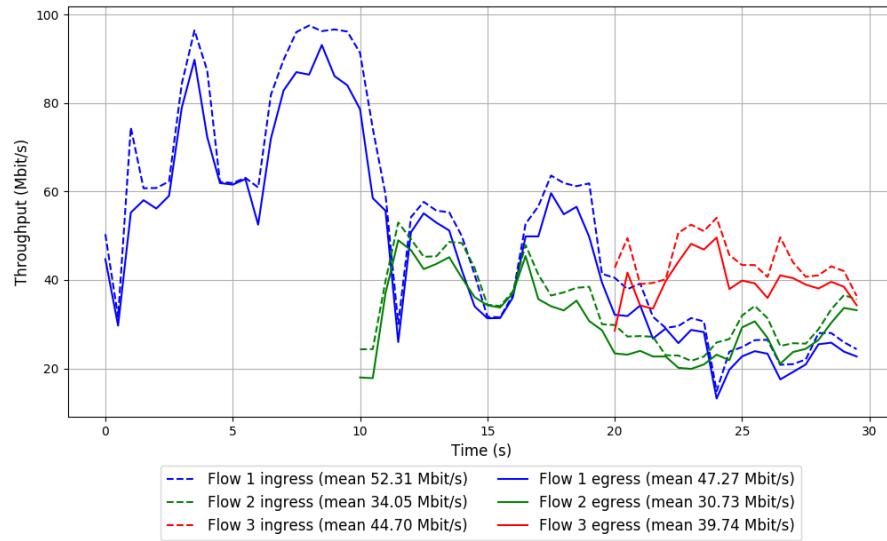


Run 4: Statistics of TCP BBR

```
Start at: 2018-04-24 21:37:12
End at: 2018-04-24 21:37:42
Local clock offset: 0.901 ms
Remote clock offset: -7.74 ms

# Below is generated by plot.py at 2018-04-25 00:14:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.91 Mbit/s
95th percentile per-packet one-way delay: 31.757 ms
Loss rate: 9.93%
-- Flow 1:
Average throughput: 47.27 Mbit/s
95th percentile per-packet one-way delay: 30.878 ms
Loss rate: 9.65%
-- Flow 2:
Average throughput: 30.73 Mbit/s
95th percentile per-packet one-way delay: 36.617 ms
Loss rate: 9.80%
-- Flow 3:
Average throughput: 39.74 Mbit/s
95th percentile per-packet one-way delay: 18.306 ms
Loss rate: 11.11%
```

Run 4: Report of TCP BBR — Data Link

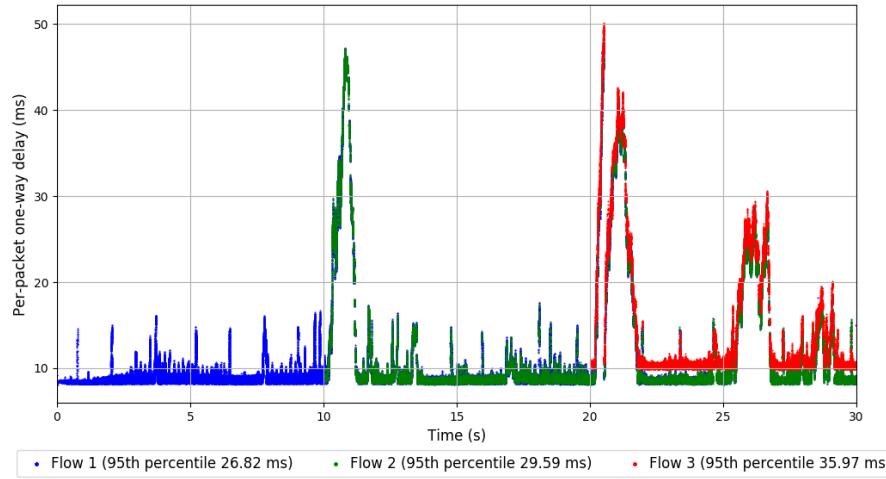
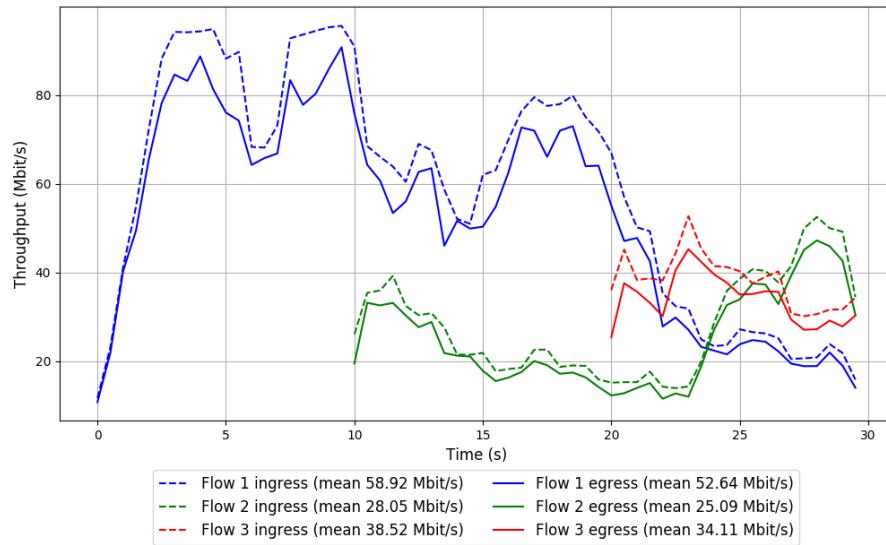


Run 5: Statistics of TCP BBR

```
Start at: 2018-04-24 21:56:48
End at: 2018-04-24 21:57:18
Local clock offset: -0.463 ms
Remote clock offset: -2.766 ms

# Below is generated by plot.py at 2018-04-25 00:14:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.67 Mbit/s
95th percentile per-packet one-way delay: 29.191 ms
Loss rate: 10.75%
-- Flow 1:
Average throughput: 52.64 Mbit/s
95th percentile per-packet one-way delay: 26.821 ms
Loss rate: 10.66%
-- Flow 2:
Average throughput: 25.09 Mbit/s
95th percentile per-packet one-way delay: 29.595 ms
Loss rate: 10.56%
-- Flow 3:
Average throughput: 34.11 Mbit/s
95th percentile per-packet one-way delay: 35.965 ms
Loss rate: 11.43%
```

Run 5: Report of TCP BBR — Data Link

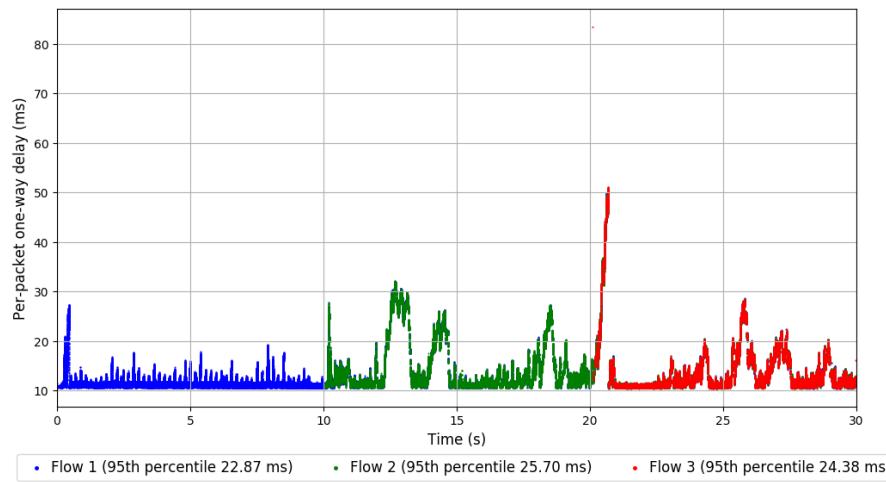
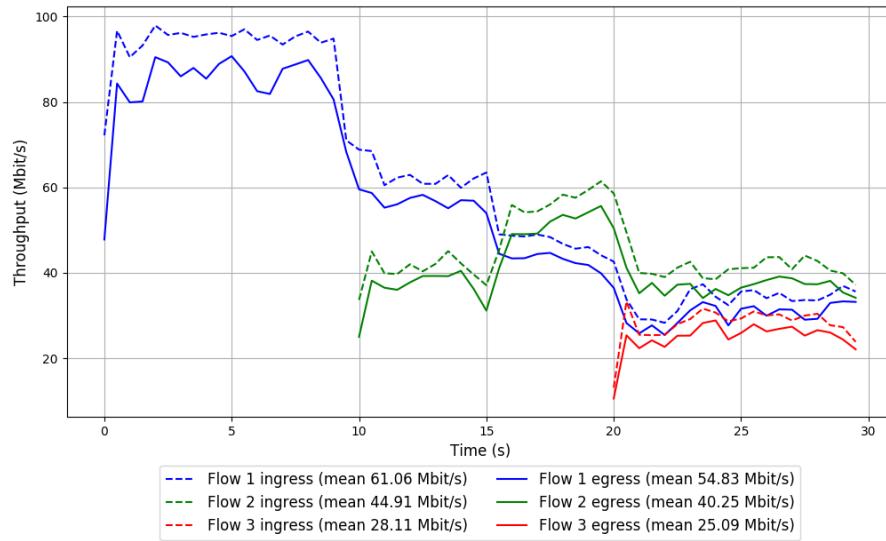


Run 6: Statistics of TCP BBR

```
Start at: 2018-04-24 22:16:27
End at: 2018-04-24 22:16:57
Local clock offset: -8.233 ms
Remote clock offset: -5.752 ms

# Below is generated by plot.py at 2018-04-25 00:14:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.90 Mbit/s
95th percentile per-packet one-way delay: 24.239 ms
Loss rate: 10.35%
-- Flow 1:
Average throughput: 54.83 Mbit/s
95th percentile per-packet one-way delay: 22.867 ms
Loss rate: 10.19%
-- Flow 2:
Average throughput: 40.25 Mbit/s
95th percentile per-packet one-way delay: 25.701 ms
Loss rate: 10.38%
-- Flow 3:
Average throughput: 25.09 Mbit/s
95th percentile per-packet one-way delay: 24.383 ms
Loss rate: 11.35%
```

Run 6: Report of TCP BBR — Data Link

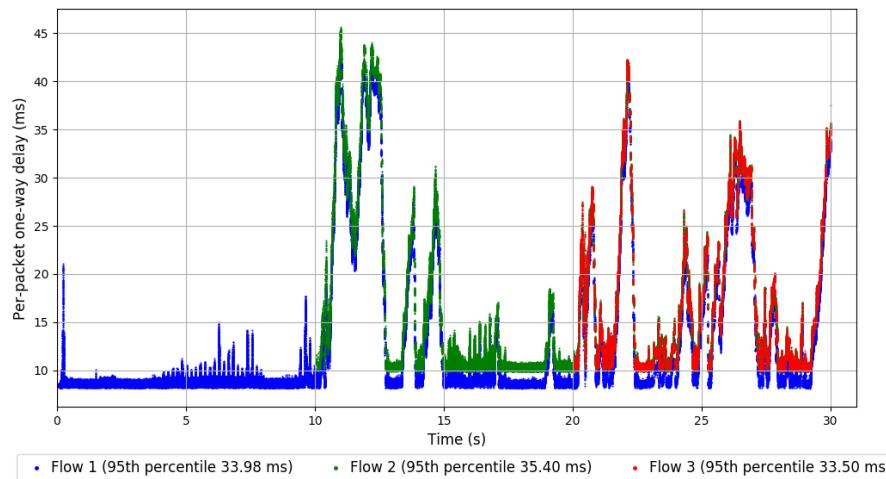
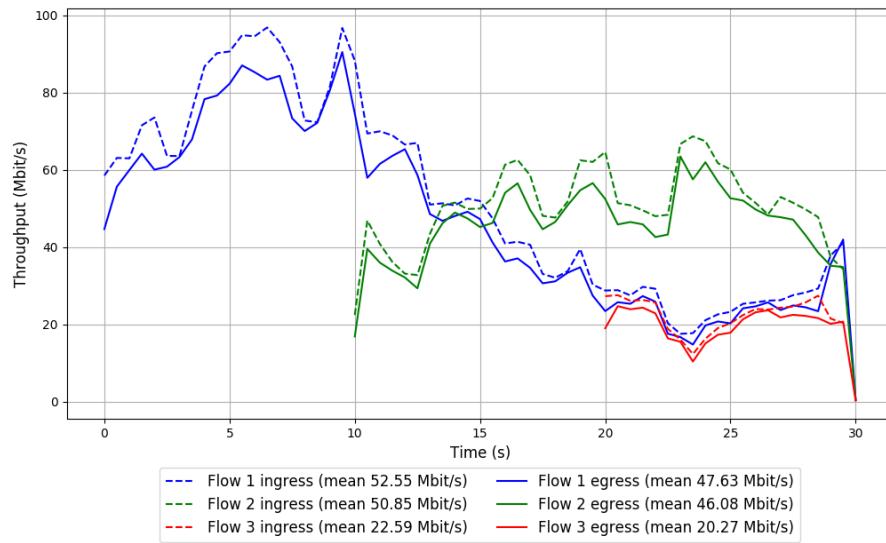


Run 7: Statistics of TCP BBR

```
Start at: 2018-04-24 22:36:21
End at: 2018-04-24 22:36:51
Local clock offset: -13.687 ms
Remote clock offset: -7.637 ms

# Below is generated by plot.py at 2018-04-25 00:14:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.07 Mbit/s
95th percentile per-packet one-way delay: 34.506 ms
Loss rate: 9.34%
-- Flow 1:
Average throughput: 47.63 Mbit/s
95th percentile per-packet one-way delay: 33.984 ms
Loss rate: 9.29%
-- Flow 2:
Average throughput: 46.08 Mbit/s
95th percentile per-packet one-way delay: 35.404 ms
Loss rate: 9.26%
-- Flow 3:
Average throughput: 20.27 Mbit/s
95th percentile per-packet one-way delay: 33.500 ms
Loss rate: 10.09%
```

Run 7: Report of TCP BBR — Data Link

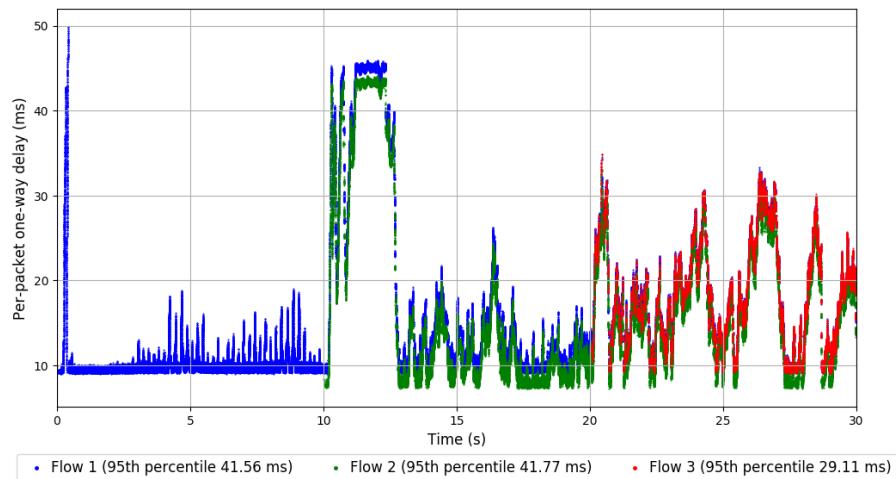
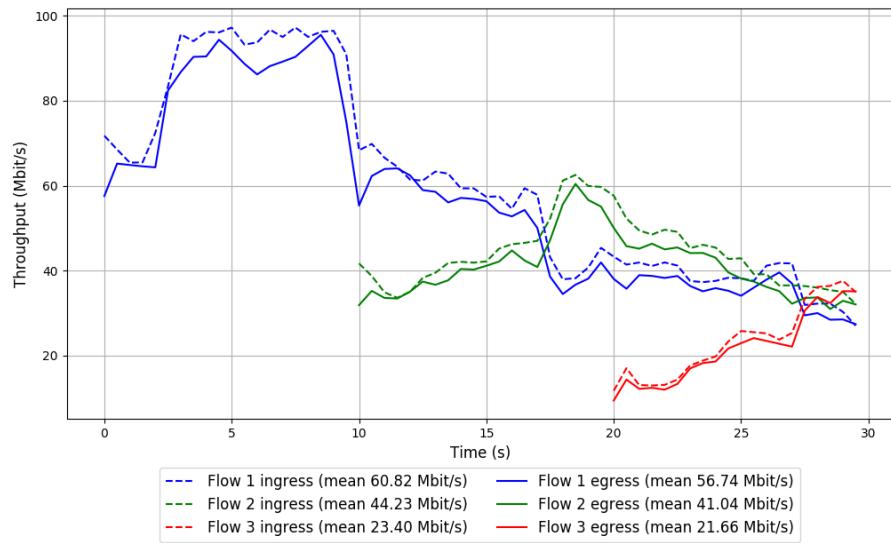


Run 8: Statistics of TCP BBR

```
Start at: 2018-04-24 22:56:12
End at: 2018-04-24 22:56:42
Local clock offset: -14.929 ms
Remote clock offset: -6.88 ms

# Below is generated by plot.py at 2018-04-25 00:14:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.26 Mbit/s
95th percentile per-packet one-way delay: 39.630 ms
Loss rate: 6.89%
-- Flow 1:
Average throughput: 56.74 Mbit/s
95th percentile per-packet one-way delay: 41.564 ms
Loss rate: 6.69%
-- Flow 2:
Average throughput: 41.04 Mbit/s
95th percentile per-packet one-way delay: 41.768 ms
Loss rate: 7.18%
-- Flow 3:
Average throughput: 21.66 Mbit/s
95th percentile per-packet one-way delay: 29.105 ms
Loss rate: 7.39%
```

Run 8: Report of TCP BBR — Data Link

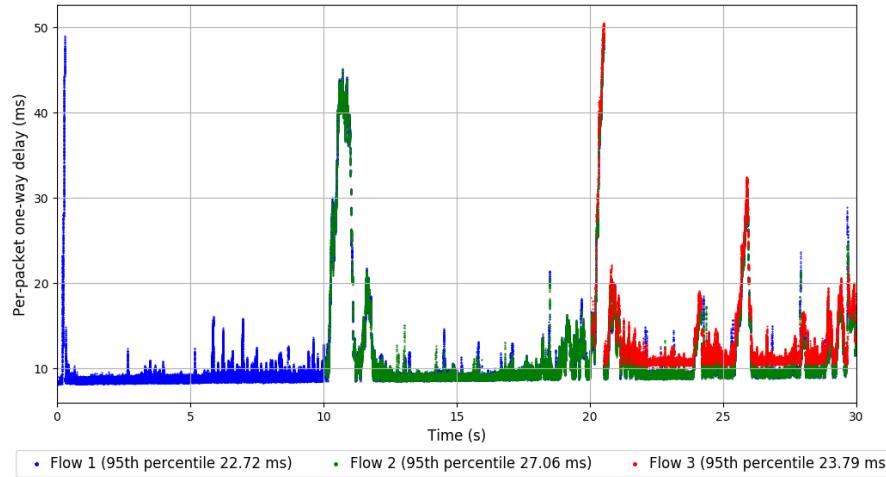
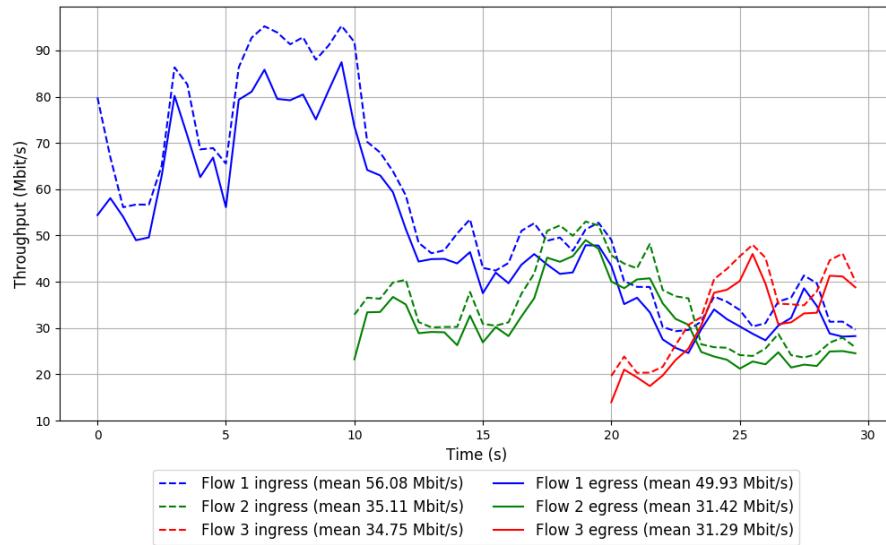


Run 9: Statistics of TCP BBR

```
Start at: 2018-04-24 23:16:15
End at: 2018-04-24 23:16:45
Local clock offset: -17.523 ms
Remote clock offset: -7.278 ms

# Below is generated by plot.py at 2018-04-25 00:15:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.23 Mbit/s
95th percentile per-packet one-way delay: 24.110 ms
Loss rate: 10.72%
-- Flow 1:
Average throughput: 49.93 Mbit/s
95th percentile per-packet one-way delay: 22.716 ms
Loss rate: 10.96%
-- Flow 2:
Average throughput: 31.42 Mbit/s
95th percentile per-packet one-way delay: 27.056 ms
Loss rate: 10.50%
-- Flow 3:
Average throughput: 31.29 Mbit/s
95th percentile per-packet one-way delay: 23.787 ms
Loss rate: 9.98%
```

Run 9: Report of TCP BBR — Data Link

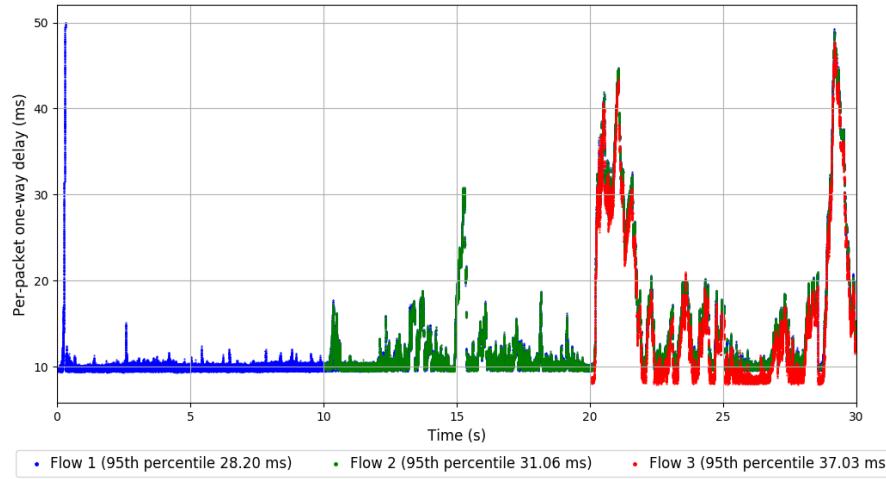
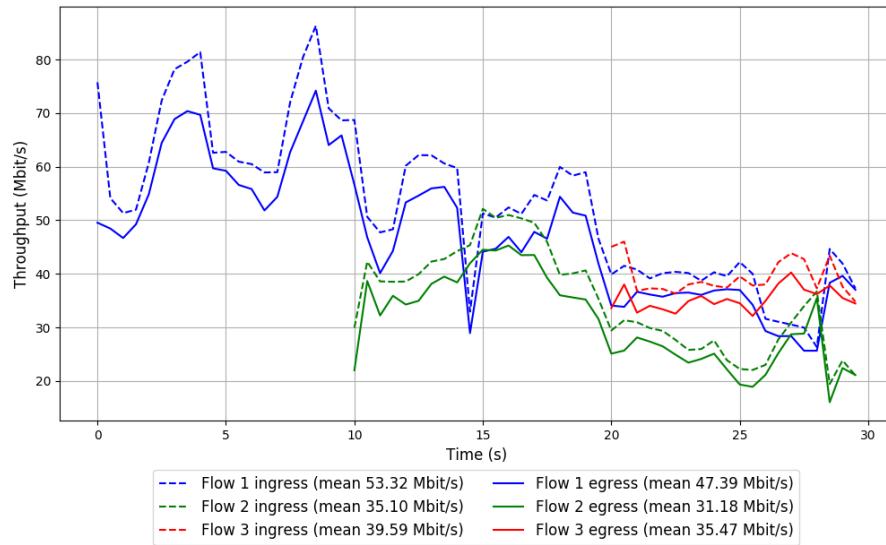


Run 10: Statistics of TCP BBR

```
Start at: 2018-04-24 23:35:59
End at: 2018-04-24 23:36:29
Local clock offset: -3.382 ms
Remote clock offset: -7.363 ms

# Below is generated by plot.py at 2018-04-25 00:15:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.93 Mbit/s
95th percentile per-packet one-way delay: 30.826 ms
Loss rate: 11.02%
-- Flow 1:
Average throughput: 47.39 Mbit/s
95th percentile per-packet one-way delay: 28.197 ms
Loss rate: 11.12%
-- Flow 2:
Average throughput: 31.18 Mbit/s
95th percentile per-packet one-way delay: 31.064 ms
Loss rate: 11.14%
-- Flow 3:
Average throughput: 35.47 Mbit/s
95th percentile per-packet one-way delay: 37.030 ms
Loss rate: 10.37%
```

Run 10: Report of TCP BBR — Data Link

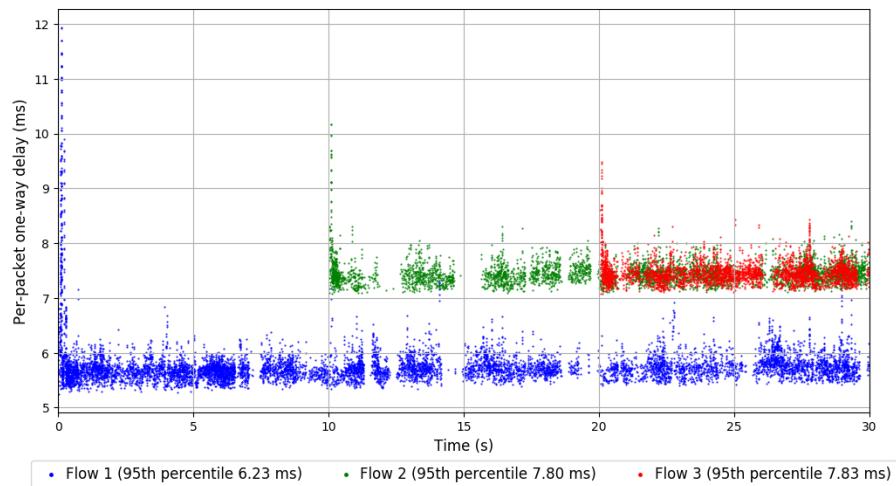
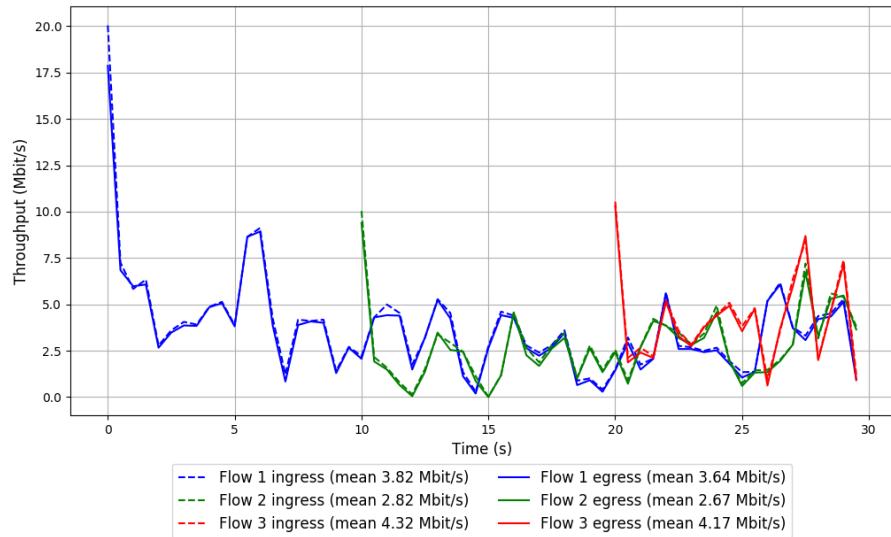


Run 1: Statistics of TCP Cubic

```
Start at: 2018-04-24 20:37:22
End at: 2018-04-24 20:37:52
Local clock offset: 2.012 ms
Remote clock offset: -10.319 ms

# Below is generated by plot.py at 2018-04-25 00:15:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.80 Mbit/s
95th percentile per-packet one-way delay: 7.711 ms
Loss rate: 4.58%
-- Flow 1:
Average throughput: 3.64 Mbit/s
95th percentile per-packet one-way delay: 6.230 ms
Loss rate: 4.70%
-- Flow 2:
Average throughput: 2.67 Mbit/s
95th percentile per-packet one-way delay: 7.800 ms
Loss rate: 5.25%
-- Flow 3:
Average throughput: 4.17 Mbit/s
95th percentile per-packet one-way delay: 7.830 ms
Loss rate: 3.39%
```

Run 1: Report of TCP Cubic — Data Link

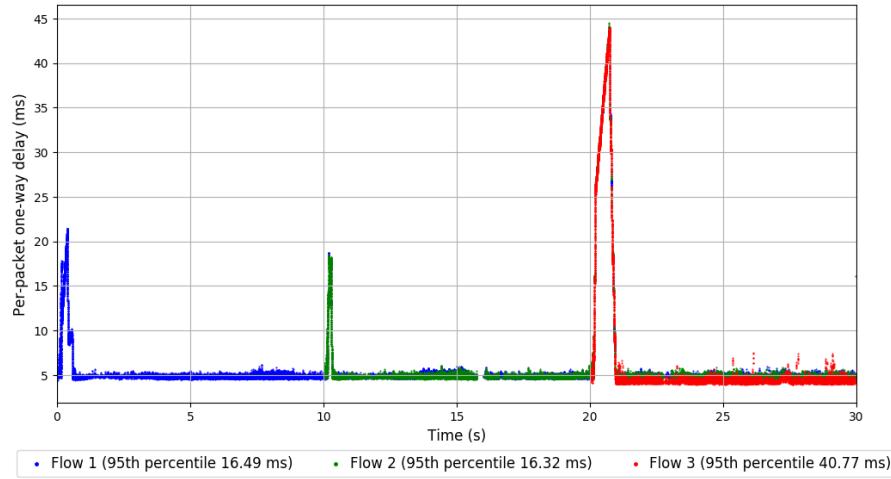
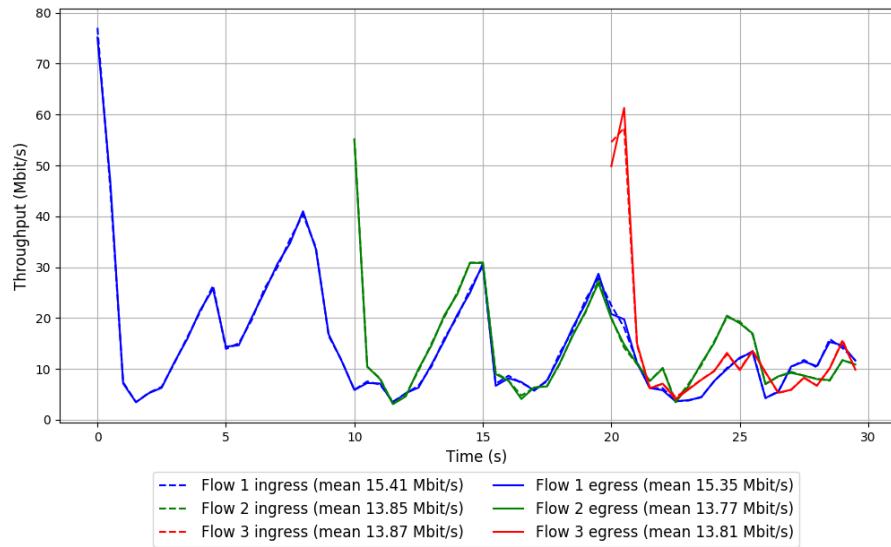


Run 2: Statistics of TCP Cubic

```
Start at: 2018-04-24 20:57:05
End at: 2018-04-24 20:57:35
Local clock offset: 4.888 ms
Remote clock offset: -11.676 ms

# Below is generated by plot.py at 2018-04-25 00:15:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 29.09 Mbit/s
95th percentile per-packet one-way delay: 30.473 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 15.35 Mbit/s
95th percentile per-packet one-way delay: 16.492 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 13.77 Mbit/s
95th percentile per-packet one-way delay: 16.320 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 13.81 Mbit/s
95th percentile per-packet one-way delay: 40.770 ms
Loss rate: 0.44%
```

Run 2: Report of TCP Cubic — Data Link

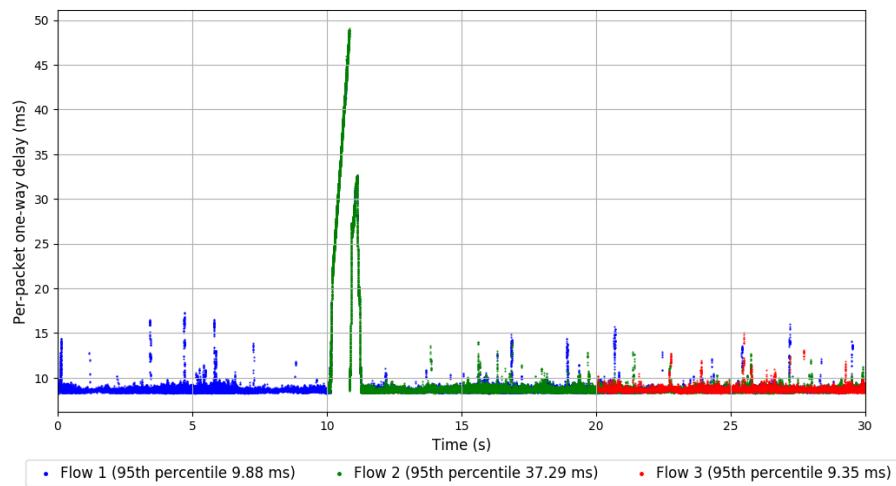
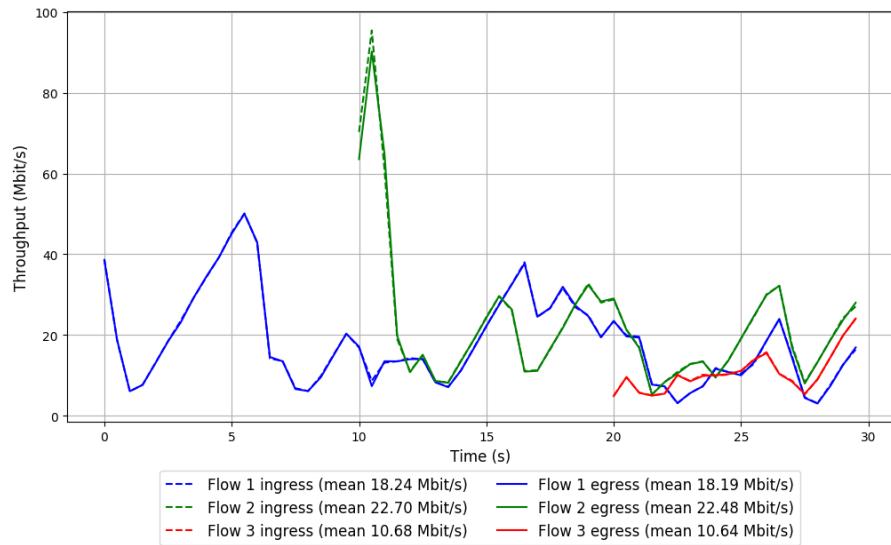


Run 3: Statistics of TCP Cubic

```
Start at: 2018-04-24 21:16:39
End at: 2018-04-24 21:17:09
Local clock offset: -0.469 ms
Remote clock offset: -11.376 ms

# Below is generated by plot.py at 2018-04-25 00:15:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.69 Mbit/s
95th percentile per-packet one-way delay: 28.765 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 18.19 Mbit/s
95th percentile per-packet one-way delay: 9.877 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 22.48 Mbit/s
95th percentile per-packet one-way delay: 37.293 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 10.64 Mbit/s
95th percentile per-packet one-way delay: 9.345 ms
Loss rate: 0.40%
```

Run 3: Report of TCP Cubic — Data Link

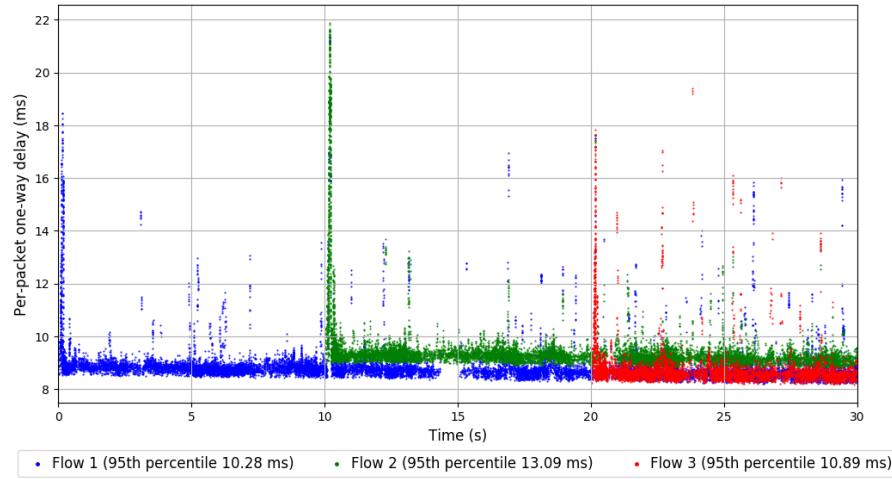
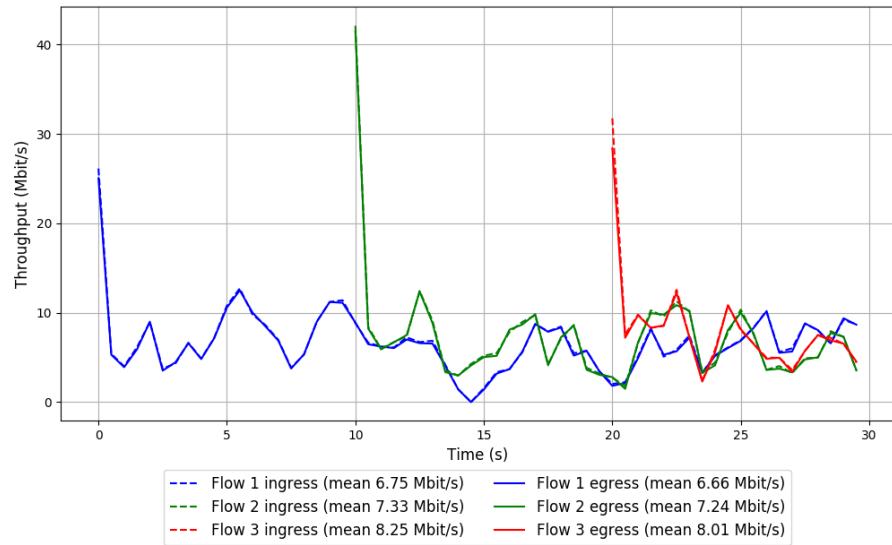


Run 4: Statistics of TCP Cubic

```
Start at: 2018-04-24 21:36:06
End at: 2018-04-24 21:36:36
Local clock offset: 0.061 ms
Remote clock offset: -7.82 ms

# Below is generated by plot.py at 2018-04-25 00:15:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.14 Mbit/s
95th percentile per-packet one-way delay: 11.197 ms
Loss rate: 1.64%
-- Flow 1:
Average throughput: 6.66 Mbit/s
95th percentile per-packet one-way delay: 10.275 ms
Loss rate: 1.37%
-- Flow 2:
Average throughput: 7.24 Mbit/s
95th percentile per-packet one-way delay: 13.091 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 8.01 Mbit/s
95th percentile per-packet one-way delay: 10.892 ms
Loss rate: 2.96%
```

Run 4: Report of TCP Cubic — Data Link

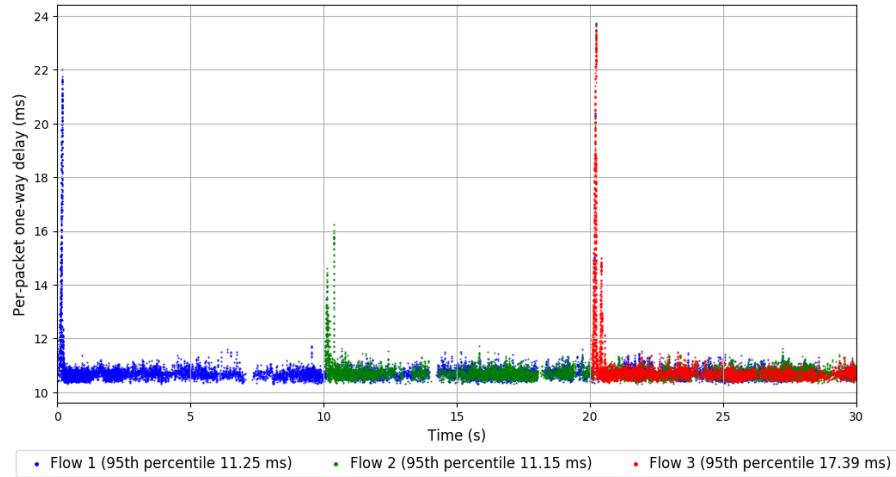
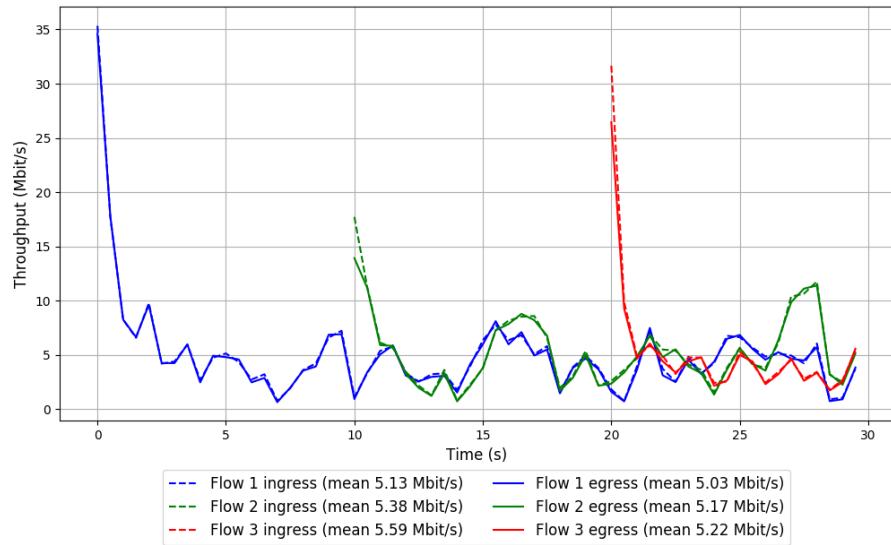


Run 5: Statistics of TCP Cubic

```
Start at: 2018-04-24 21:55:42
End at: 2018-04-24 21:56:12
Local clock offset: -0.976 ms
Remote clock offset: -2.863 ms

# Below is generated by plot.py at 2018-04-25 00:15:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.21 Mbit/s
95th percentile per-packet one-way delay: 12.029 ms
Loss rate: 3.43%
-- Flow 1:
Average throughput: 5.03 Mbit/s
95th percentile per-packet one-way delay: 11.249 ms
Loss rate: 1.97%
-- Flow 2:
Average throughput: 5.17 Mbit/s
95th percentile per-packet one-way delay: 11.152 ms
Loss rate: 3.87%
-- Flow 3:
Average throughput: 5.22 Mbit/s
95th percentile per-packet one-way delay: 17.394 ms
Loss rate: 6.62%
```

Run 5: Report of TCP Cubic — Data Link

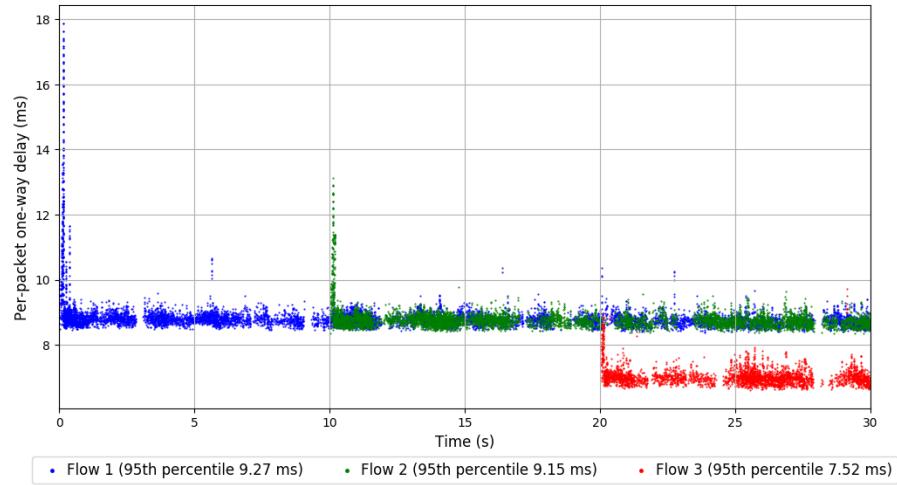
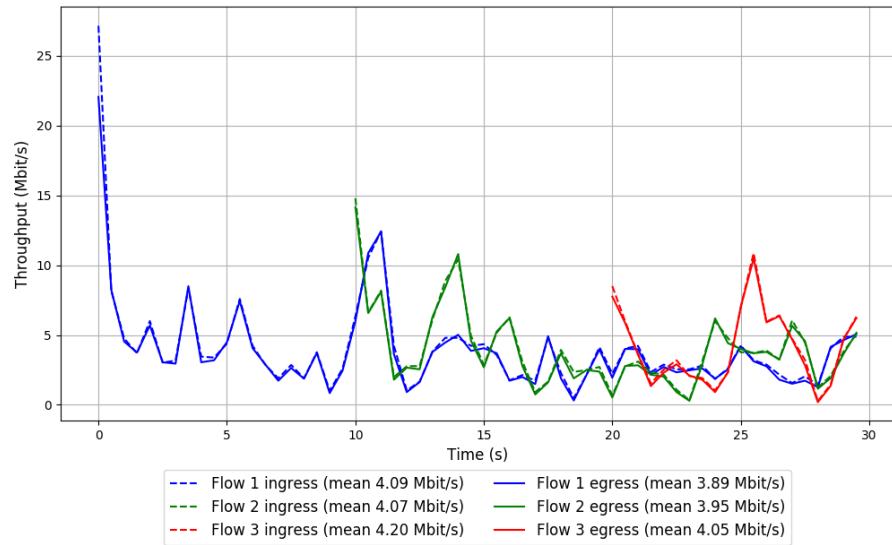


Run 6: Statistics of TCP Cubic

```
Start at: 2018-04-24 22:15:16
End at: 2018-04-24 22:15:46
Local clock offset: -5.82 ms
Remote clock offset: -5.763 ms

# Below is generated by plot.py at 2018-04-25 00:15:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.86 Mbit/s
95th percentile per-packet one-way delay: 9.157 ms
Loss rate: 4.08%
-- Flow 1:
Average throughput: 3.89 Mbit/s
95th percentile per-packet one-way delay: 9.269 ms
Loss rate: 4.92%
-- Flow 2:
Average throughput: 3.95 Mbit/s
95th percentile per-packet one-way delay: 9.150 ms
Loss rate: 3.07%
-- Flow 3:
Average throughput: 4.05 Mbit/s
95th percentile per-packet one-way delay: 7.518 ms
Loss rate: 3.59%
```

Run 6: Report of TCP Cubic — Data Link

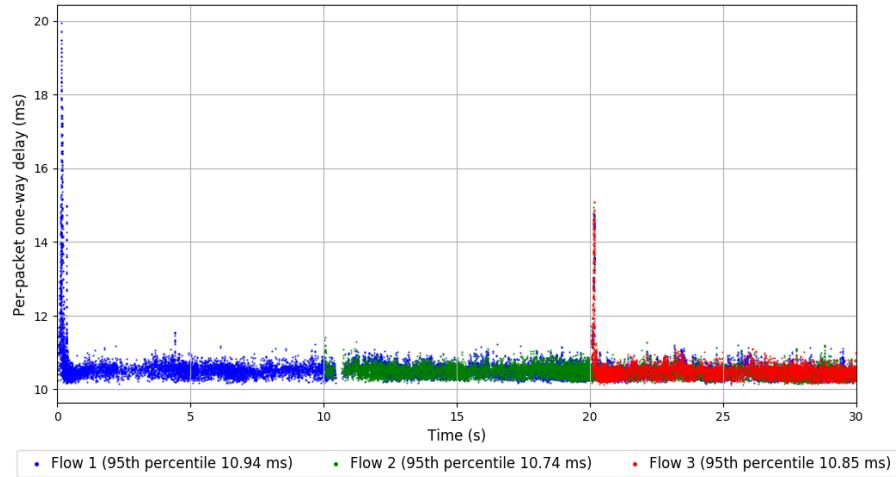
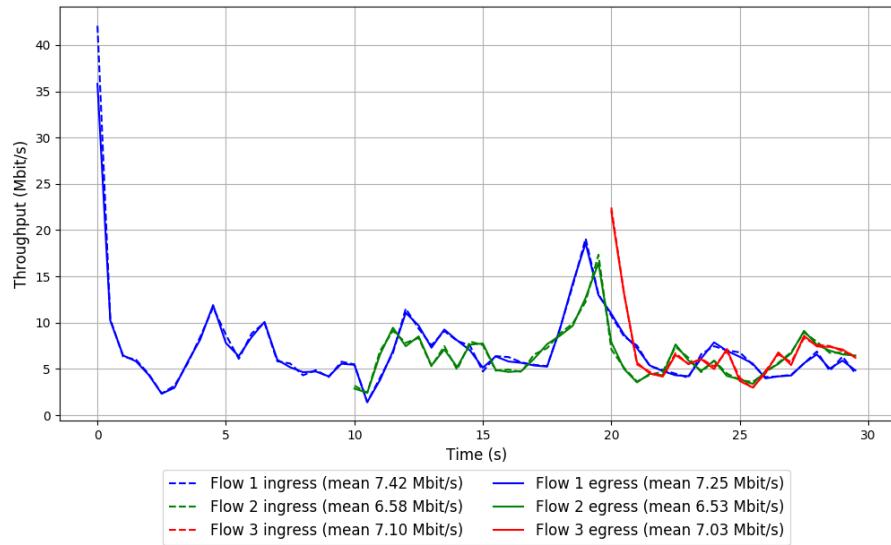


Run 7: Statistics of TCP Cubic

```
Start at: 2018-04-24 22:35:15
End at: 2018-04-24 22:35:45
Local clock offset: -13.262 ms
Remote clock offset: -7.097 ms

# Below is generated by plot.py at 2018-04-25 00:15:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.93 Mbit/s
95th percentile per-packet one-way delay: 10.843 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 7.25 Mbit/s
95th percentile per-packet one-way delay: 10.937 ms
Loss rate: 2.22%
-- Flow 2:
Average throughput: 6.53 Mbit/s
95th percentile per-packet one-way delay: 10.742 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 7.03 Mbit/s
95th percentile per-packet one-way delay: 10.848 ms
Loss rate: 0.95%
```

Run 7: Report of TCP Cubic — Data Link

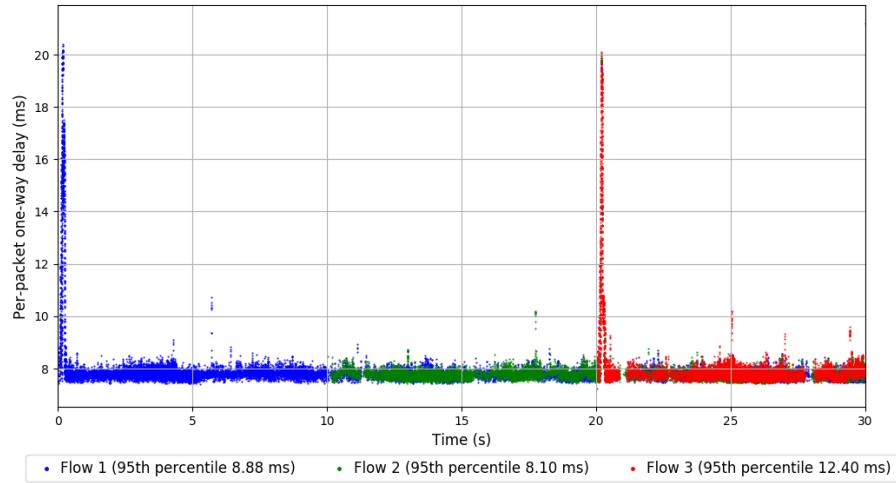
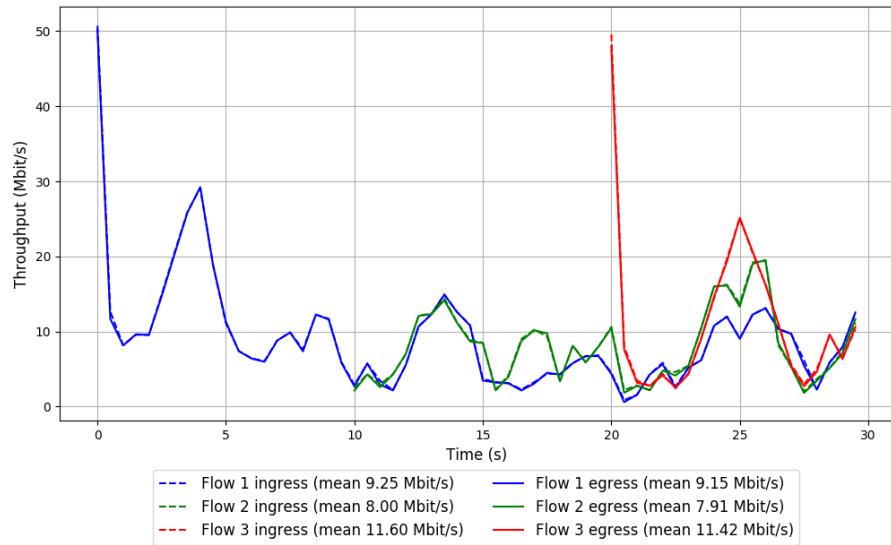


Run 8: Statistics of TCP Cubic

```
Start at: 2018-04-24 22:55:05
End at: 2018-04-24 22:55:35
Local clock offset: -15.381 ms
Remote clock offset: -7.349 ms

# Below is generated by plot.py at 2018-04-25 00:15:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.21 Mbit/s
95th percentile per-packet one-way delay: 9.589 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 9.15 Mbit/s
95th percentile per-packet one-way delay: 8.885 ms
Loss rate: 1.04%
-- Flow 2:
Average throughput: 7.91 Mbit/s
95th percentile per-packet one-way delay: 8.096 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 11.42 Mbit/s
95th percentile per-packet one-way delay: 12.403 ms
Loss rate: 1.37%
```

Run 8: Report of TCP Cubic — Data Link

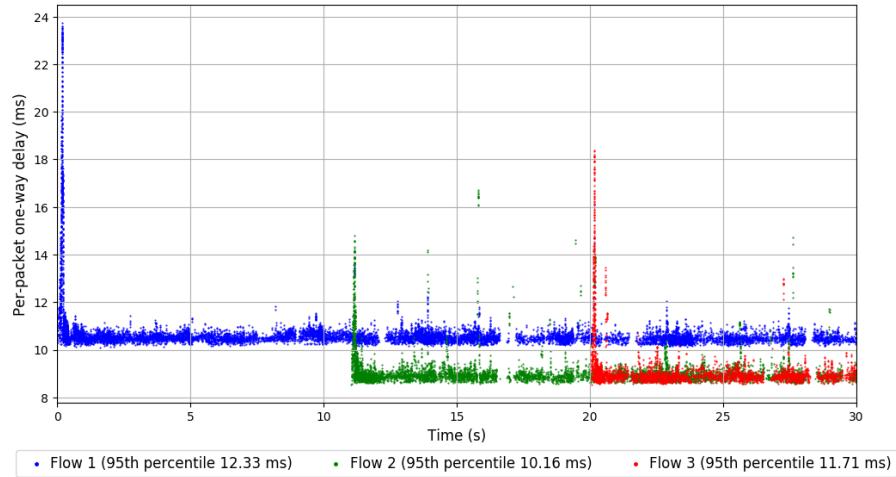
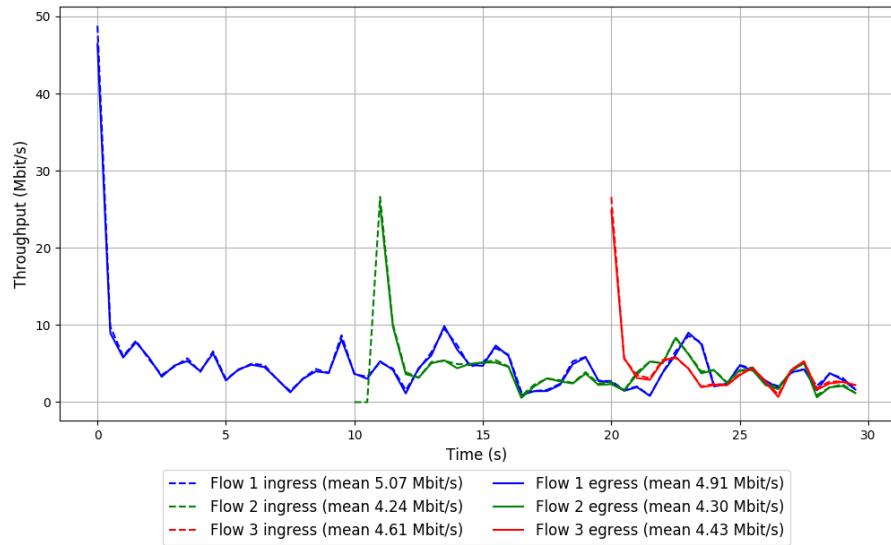


Run 9: Statistics of TCP Cubic

```
Start at: 2018-04-24 23:15:08
End at: 2018-04-24 23:15:38
Local clock offset: -17.766 ms
Remote clock offset: -6.131 ms

# Below is generated by plot.py at 2018-04-25 00:15:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.09 Mbit/s
95th percentile per-packet one-way delay: 11.439 ms
Loss rate: 3.39%
-- Flow 1:
Average throughput: 4.91 Mbit/s
95th percentile per-packet one-way delay: 12.331 ms
Loss rate: 3.15%
-- Flow 2:
Average throughput: 4.30 Mbit/s
95th percentile per-packet one-way delay: 10.156 ms
Loss rate: 3.54%
-- Flow 3:
Average throughput: 4.43 Mbit/s
95th percentile per-packet one-way delay: 11.706 ms
Loss rate: 3.91%
```

Run 9: Report of TCP Cubic — Data Link

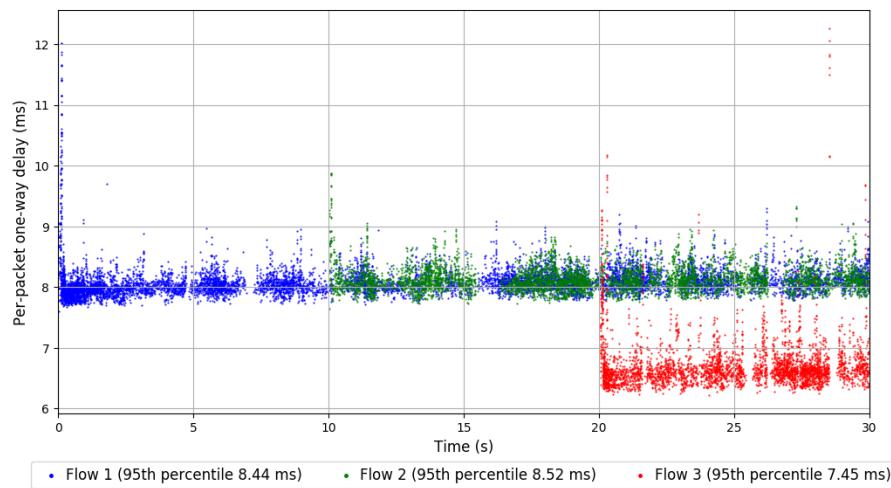
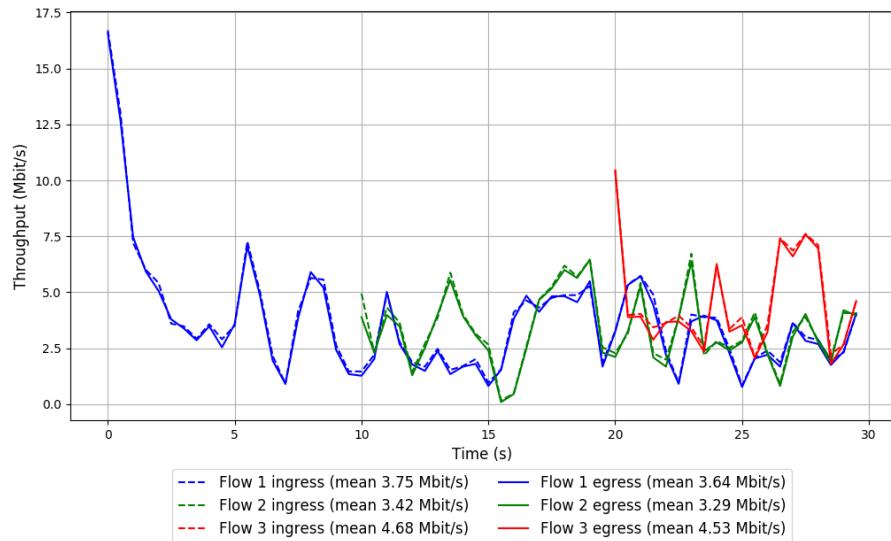


Run 10: Statistics of TCP Cubic

```
Start at: 2018-04-24 23:34:52
End at: 2018-04-24 23:35:22
Local clock offset: -4.638 ms
Remote clock offset: -10.004 ms

# Below is generated by plot.py at 2018-04-25 00:15:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.34 Mbit/s
95th percentile per-packet one-way delay: 8.446 ms
Loss rate: 3.26%
-- Flow 1:
Average throughput: 3.64 Mbit/s
95th percentile per-packet one-way delay: 8.443 ms
Loss rate: 2.93%
-- Flow 2:
Average throughput: 3.29 Mbit/s
95th percentile per-packet one-way delay: 8.516 ms
Loss rate: 3.76%
-- Flow 3:
Average throughput: 4.53 Mbit/s
95th percentile per-packet one-way delay: 7.446 ms
Loss rate: 3.33%
```

Run 10: Report of TCP Cubic — Data Link

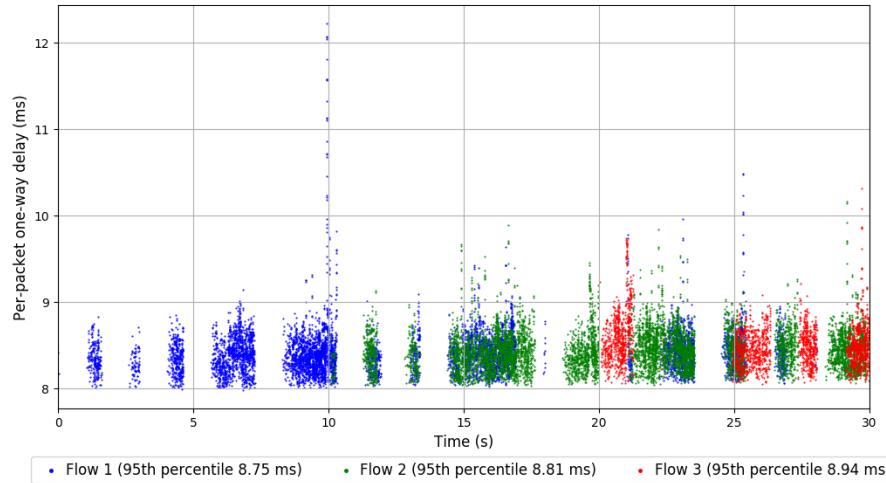
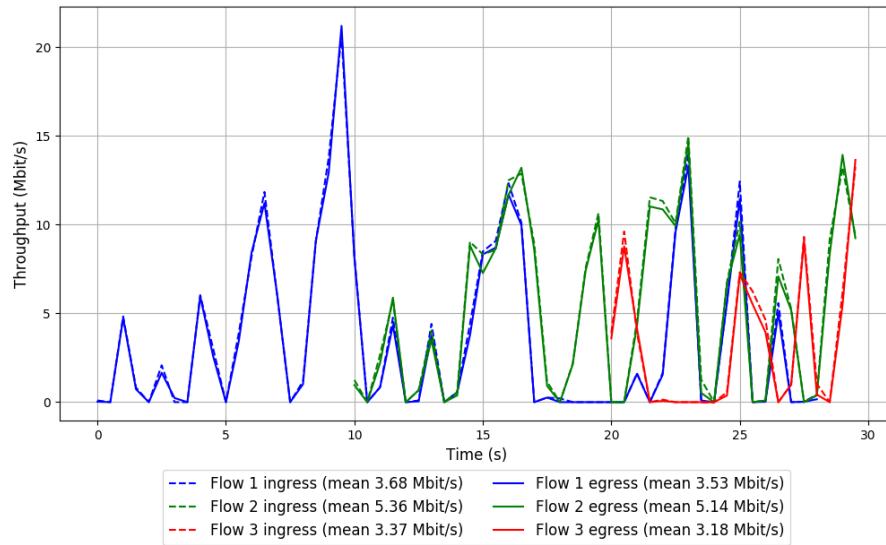


Run 1: Statistics of LEDBAT

```
Start at: 2018-04-24 20:36:15
End at: 2018-04-24 20:36:45
Local clock offset: 0.217 ms
Remote clock offset: -10.886 ms

# Below is generated by plot.py at 2018-04-25 00:15:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.77 Mbit/s
95th percentile per-packet one-way delay: 8.807 ms
Loss rate: 4.32%
-- Flow 1:
Average throughput: 3.53 Mbit/s
95th percentile per-packet one-way delay: 8.746 ms
Loss rate: 4.04%
-- Flow 2:
Average throughput: 5.14 Mbit/s
95th percentile per-packet one-way delay: 8.813 ms
Loss rate: 4.14%
-- Flow 3:
Average throughput: 3.18 Mbit/s
95th percentile per-packet one-way delay: 8.935 ms
Loss rate: 5.73%
```

Run 1: Report of LEDBAT — Data Link

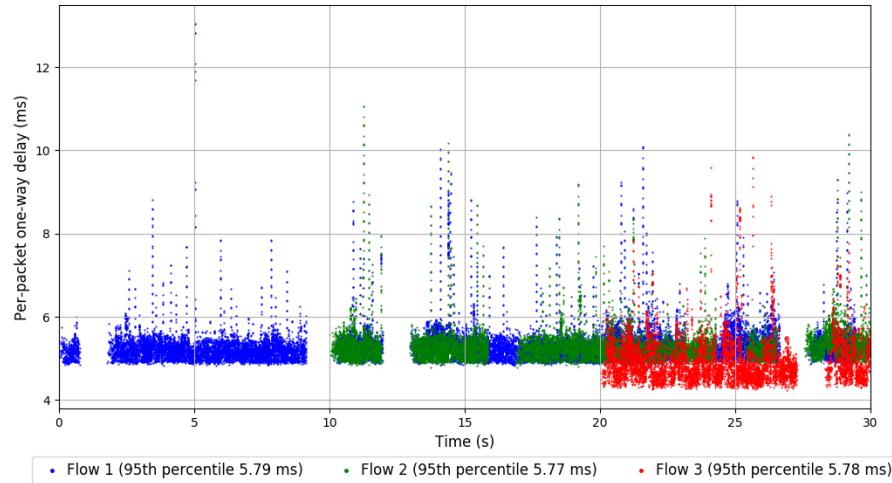
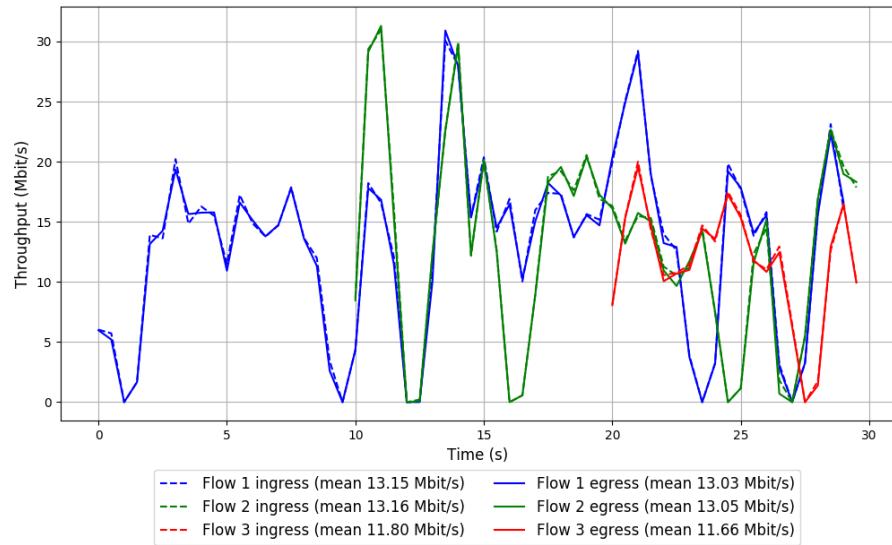


Run 2: Statistics of LEDBAT

```
Start at: 2018-04-24 20:55:58
End at: 2018-04-24 20:56:28
Local clock offset: 4.112 ms
Remote clock offset: -12.01 ms

# Below is generated by plot.py at 2018-04-25 00:15:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 25.37 Mbit/s
95th percentile per-packet one-way delay: 5.780 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 13.03 Mbit/s
95th percentile per-packet one-way delay: 5.789 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 13.05 Mbit/s
95th percentile per-packet one-way delay: 5.767 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 11.66 Mbit/s
95th percentile per-packet one-way delay: 5.780 ms
Loss rate: 1.18%
```

Run 2: Report of LEDBAT — Data Link

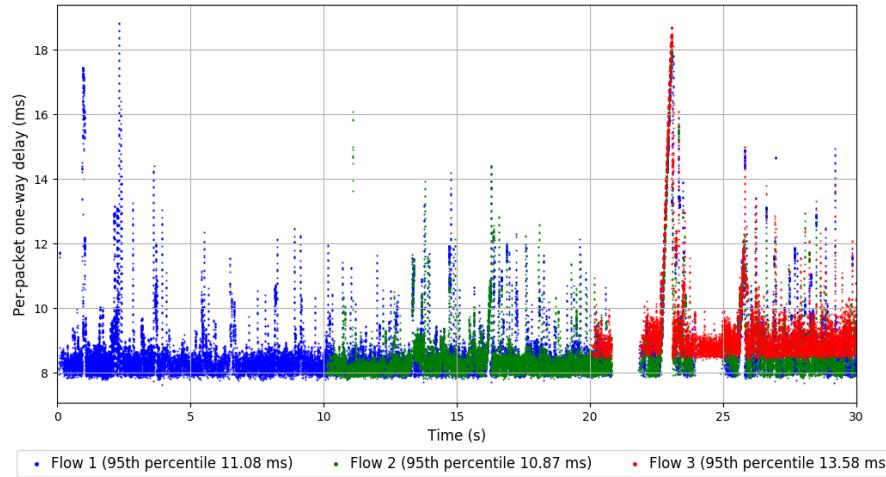
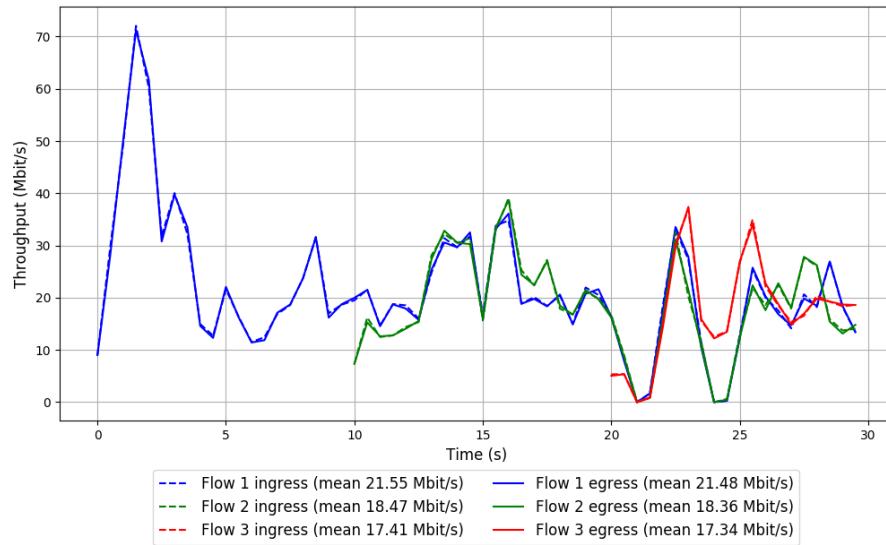


Run 3: Statistics of LEDBAT

```
Start at: 2018-04-24 21:15:31
End at: 2018-04-24 21:16:01
Local clock offset: -0.221 ms
Remote clock offset: -11.577 ms

# Below is generated by plot.py at 2018-04-25 00:15:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.45 Mbit/s
95th percentile per-packet one-way delay: 11.372 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 21.48 Mbit/s
95th percentile per-packet one-way delay: 11.083 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 18.36 Mbit/s
95th percentile per-packet one-way delay: 10.873 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 17.34 Mbit/s
95th percentile per-packet one-way delay: 13.580 ms
Loss rate: 0.40%
```

Run 3: Report of LEDBAT — Data Link

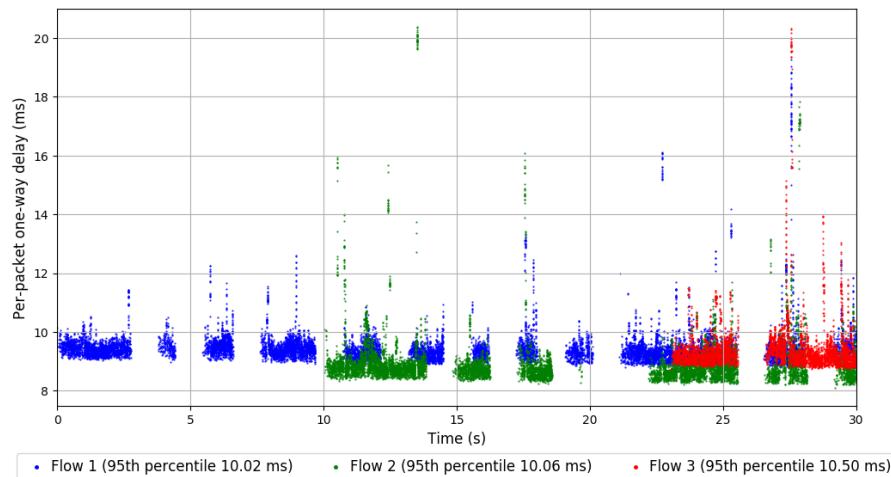
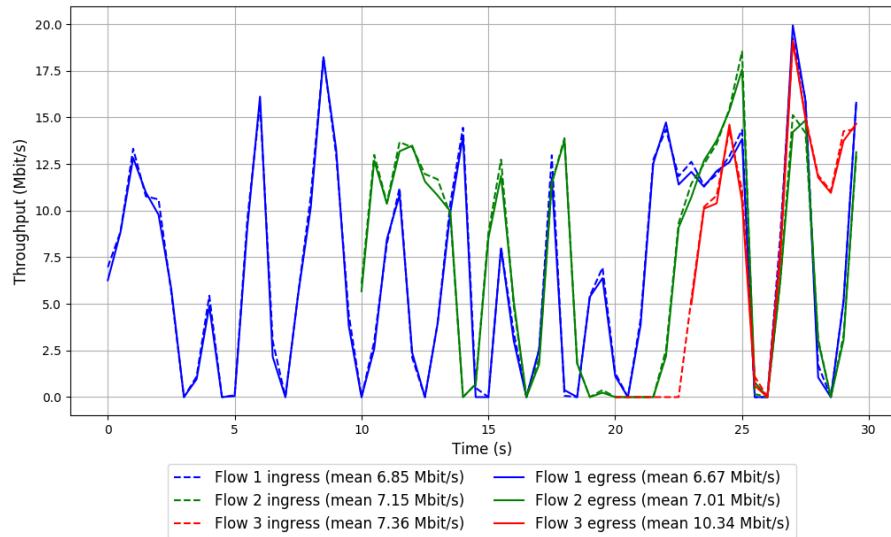


Run 4: Statistics of LEDBAT

```
Start at: 2018-04-24 21:35:00
End at: 2018-04-24 21:35:30
Local clock offset: -0.7 ms
Remote clock offset: -9.381 ms

# Below is generated by plot.py at 2018-04-25 00:15:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.73 Mbit/s
95th percentile per-packet one-way delay: 10.096 ms
Loss rate: 2.28%
-- Flow 1:
Average throughput: 6.67 Mbit/s
95th percentile per-packet one-way delay: 10.023 ms
Loss rate: 2.65%
-- Flow 2:
Average throughput: 7.01 Mbit/s
95th percentile per-packet one-way delay: 10.061 ms
Loss rate: 1.93%
-- Flow 3:
Average throughput: 10.34 Mbit/s
95th percentile per-packet one-way delay: 10.501 ms
Loss rate: 1.95%
```

Run 4: Report of LEDBAT — Data Link

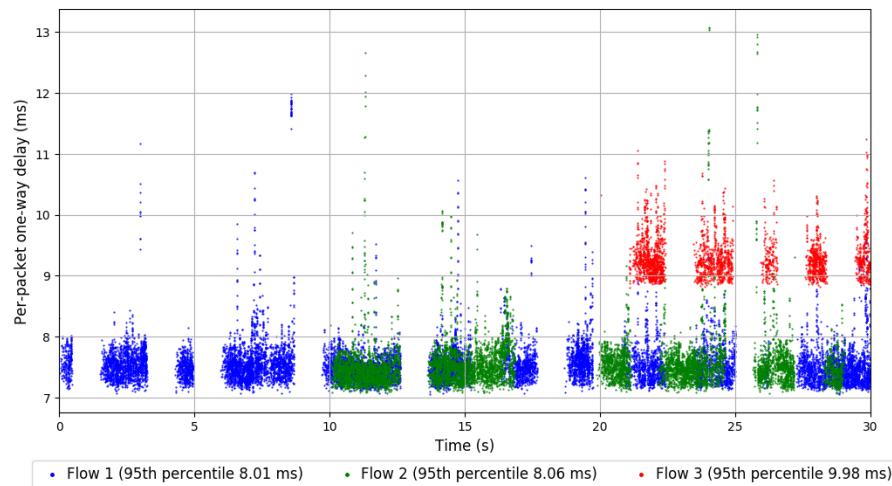
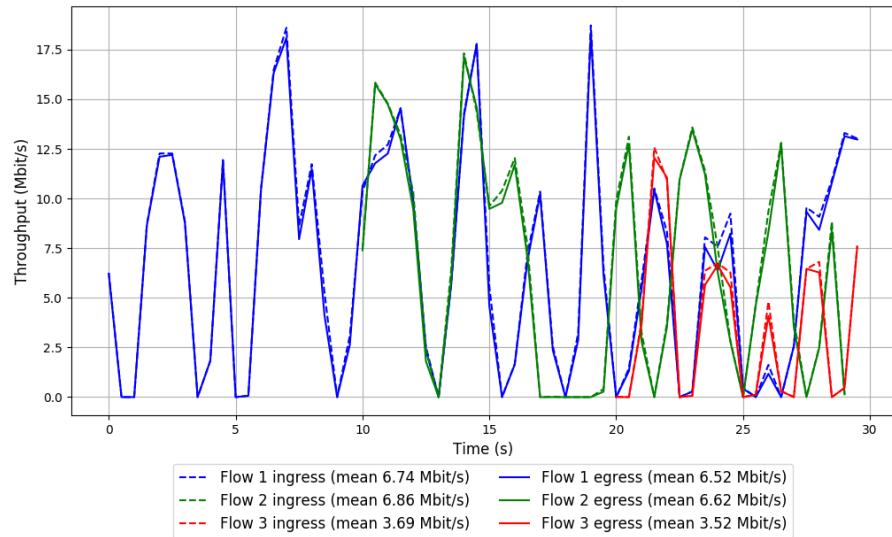


Run 5: Statistics of LEDBAT

```
Start at: 2018-04-24 21:54:36
End at: 2018-04-24 21:55:06
Local clock offset: 0.433 ms
Remote clock offset: -3.085 ms

# Below is generated by plot.py at 2018-04-25 00:15:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.89 Mbit/s
95th percentile per-packet one-way delay: 9.251 ms
Loss rate: 3.46%
-- Flow 1:
Average throughput: 6.52 Mbit/s
95th percentile per-packet one-way delay: 8.011 ms
Loss rate: 3.20%
-- Flow 2:
Average throughput: 6.62 Mbit/s
95th percentile per-packet one-way delay: 8.062 ms
Loss rate: 3.53%
-- Flow 3:
Average throughput: 3.52 Mbit/s
95th percentile per-packet one-way delay: 9.978 ms
Loss rate: 4.67%
```

Run 5: Report of LEDBAT — Data Link

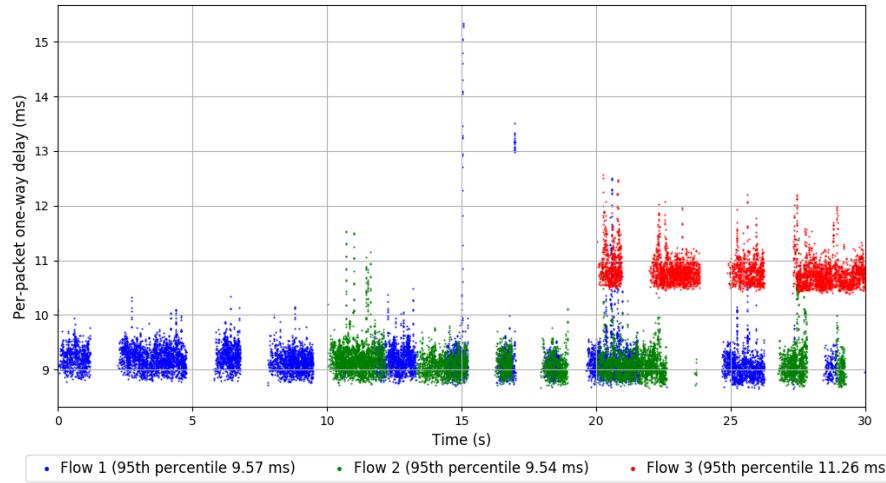
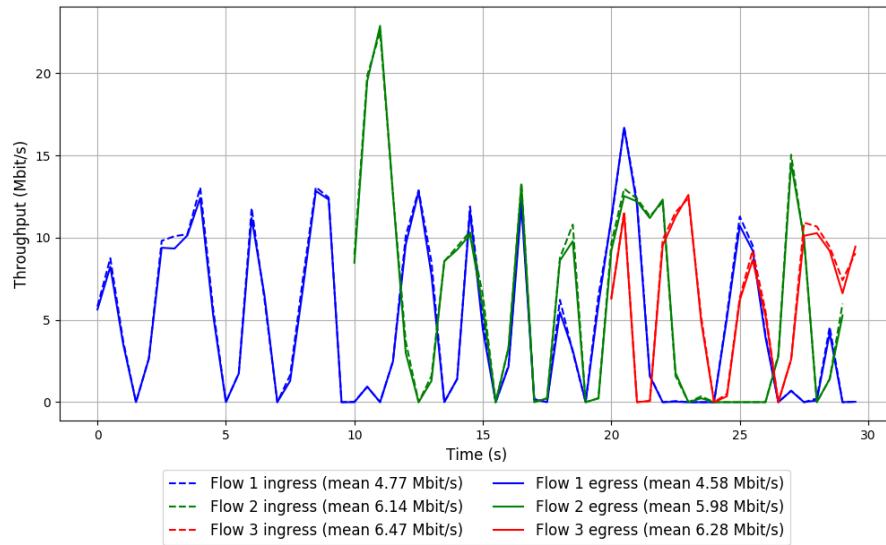


Run 6: Statistics of LEDBAT

```
Start at: 2018-04-24 22:14:09
End at: 2018-04-24 22:14:39
Local clock offset: -6.873 ms
Remote clock offset: -5.15 ms

# Below is generated by plot.py at 2018-04-25 00:15:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.51 Mbit/s
95th percentile per-packet one-way delay: 10.906 ms
Loss rate: 3.22%
-- Flow 1:
Average throughput: 4.58 Mbit/s
95th percentile per-packet one-way delay: 9.568 ms
Loss rate: 3.85%
-- Flow 2:
Average throughput: 5.98 Mbit/s
95th percentile per-packet one-way delay: 9.542 ms
Loss rate: 2.56%
-- Flow 3:
Average throughput: 6.28 Mbit/s
95th percentile per-packet one-way delay: 11.255 ms
Loss rate: 3.01%
```

Run 6: Report of LEDBAT — Data Link

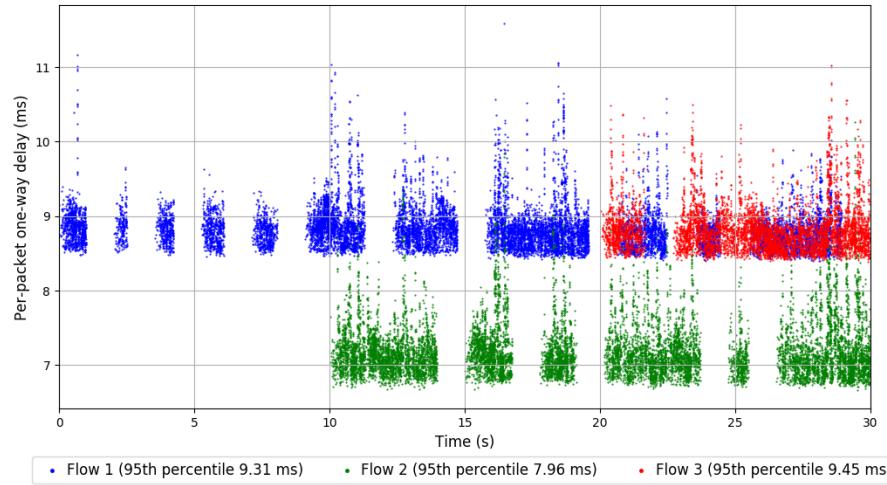
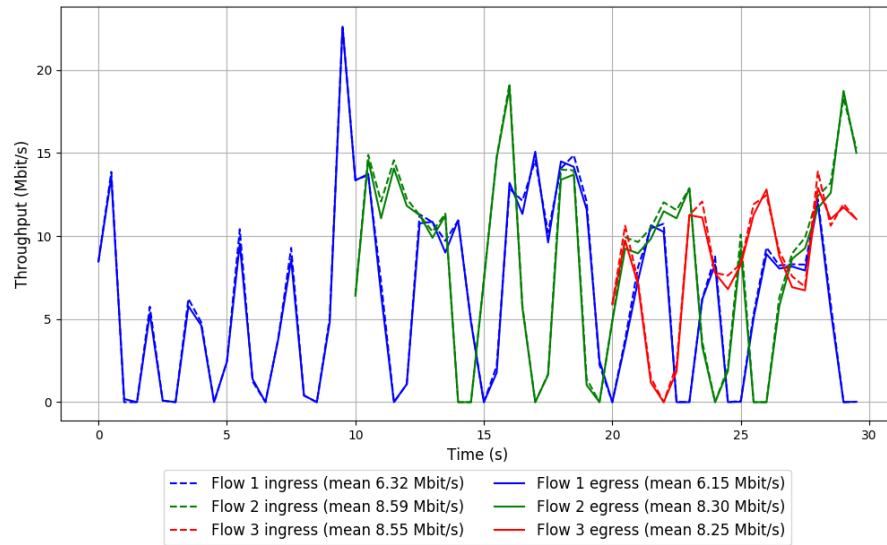


Run 7: Statistics of LEDBAT

```
Start at: 2018-04-24 22:34:07
End at: 2018-04-24 22:34:37
Local clock offset: -11.834 ms
Remote clock offset: -7.579 ms

# Below is generated by plot.py at 2018-04-25 00:15:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.41 Mbit/s
95th percentile per-packet one-way delay: 9.208 ms
Loss rate: 3.12%
-- Flow 1:
Average throughput: 6.15 Mbit/s
95th percentile per-packet one-way delay: 9.309 ms
Loss rate: 2.72%
-- Flow 2:
Average throughput: 8.30 Mbit/s
95th percentile per-packet one-way delay: 7.965 ms
Loss rate: 3.39%
-- Flow 3:
Average throughput: 8.25 Mbit/s
95th percentile per-packet one-way delay: 9.453 ms
Loss rate: 3.48%
```

Run 7: Report of LEDBAT — Data Link

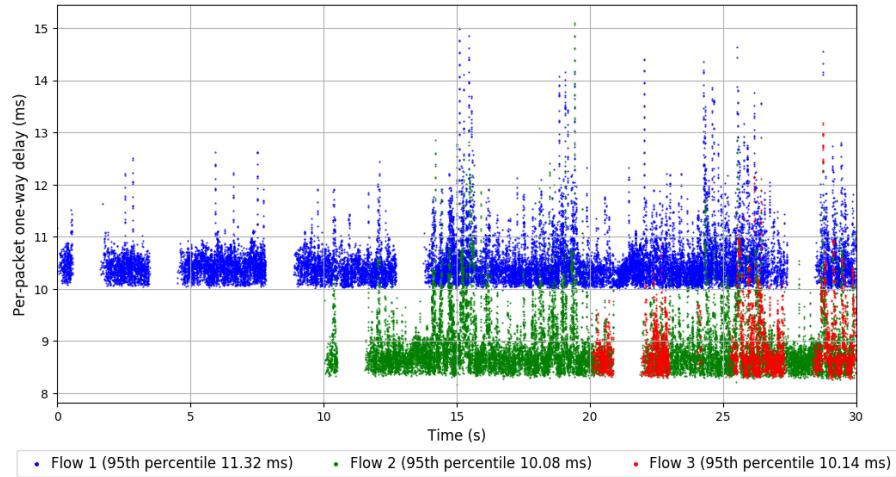
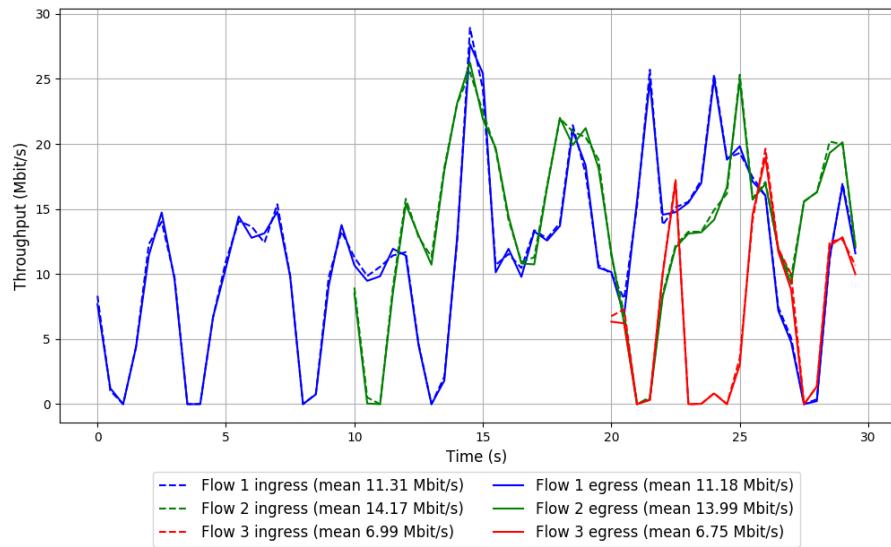


Run 8: Statistics of LEDBAT

```
Start at: 2018-04-24 22:53:59
End at: 2018-04-24 22:54:29
Local clock offset: -15.596 ms
Remote clock offset: -6.828 ms

# Below is generated by plot.py at 2018-04-25 00:15:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.70 Mbit/s
95th percentile per-packet one-way delay: 10.993 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 11.18 Mbit/s
95th percentile per-packet one-way delay: 11.325 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 13.99 Mbit/s
95th percentile per-packet one-way delay: 10.082 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 6.75 Mbit/s
95th percentile per-packet one-way delay: 10.145 ms
Loss rate: 3.49%
```

Run 8: Report of LEDBAT — Data Link

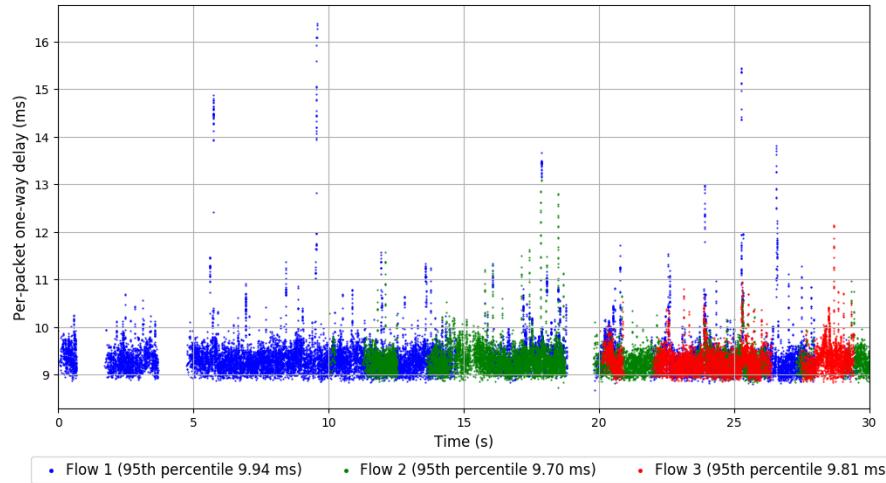
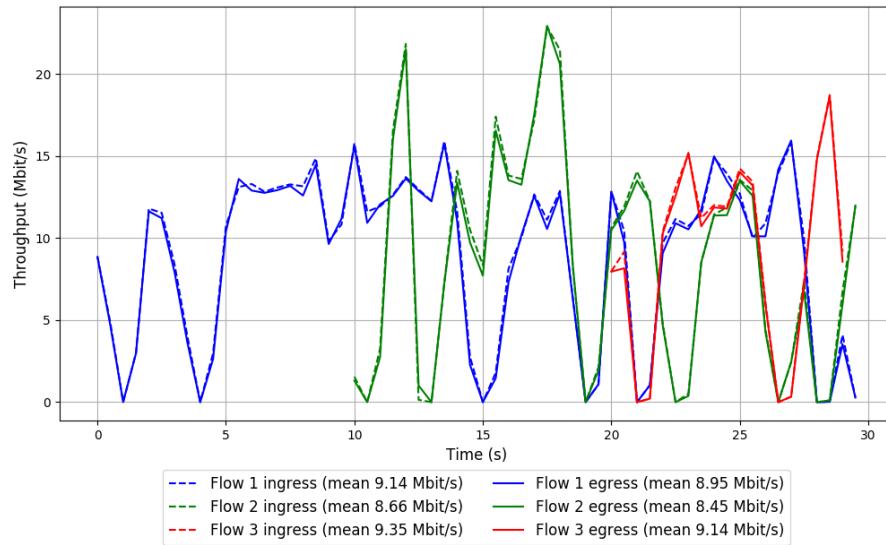


Run 9: Statistics of LEDBAT

```
Start at: 2018-04-24 23:14:00
End at: 2018-04-24 23:14:30
Local clock offset: -18.613 ms
Remote clock offset: -6.724 ms

# Below is generated by plot.py at 2018-04-25 00:15:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.30 Mbit/s
95th percentile per-packet one-way delay: 9.838 ms
Loss rate: 2.24%
-- Flow 1:
Average throughput: 8.95 Mbit/s
95th percentile per-packet one-way delay: 9.942 ms
Loss rate: 2.09%
-- Flow 2:
Average throughput: 8.45 Mbit/s
95th percentile per-packet one-way delay: 9.704 ms
Loss rate: 2.46%
-- Flow 3:
Average throughput: 9.14 Mbit/s
95th percentile per-packet one-way delay: 9.810 ms
Loss rate: 2.26%
```

Run 9: Report of LEDBAT — Data Link

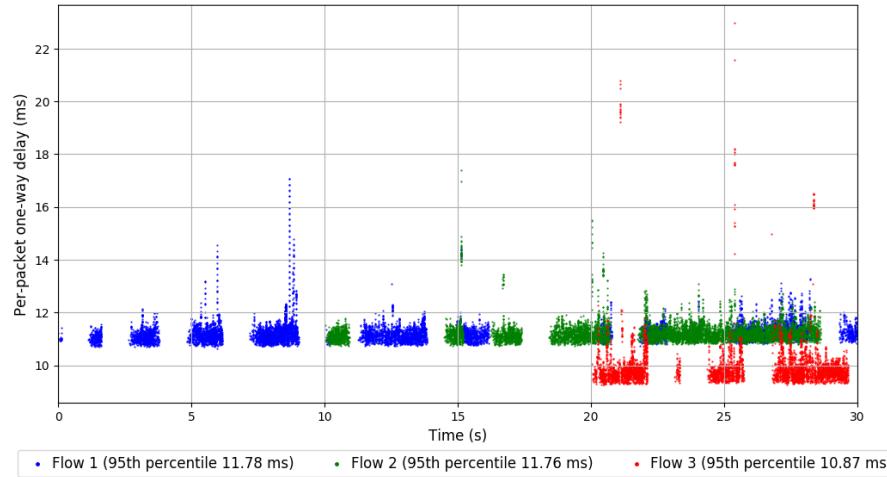
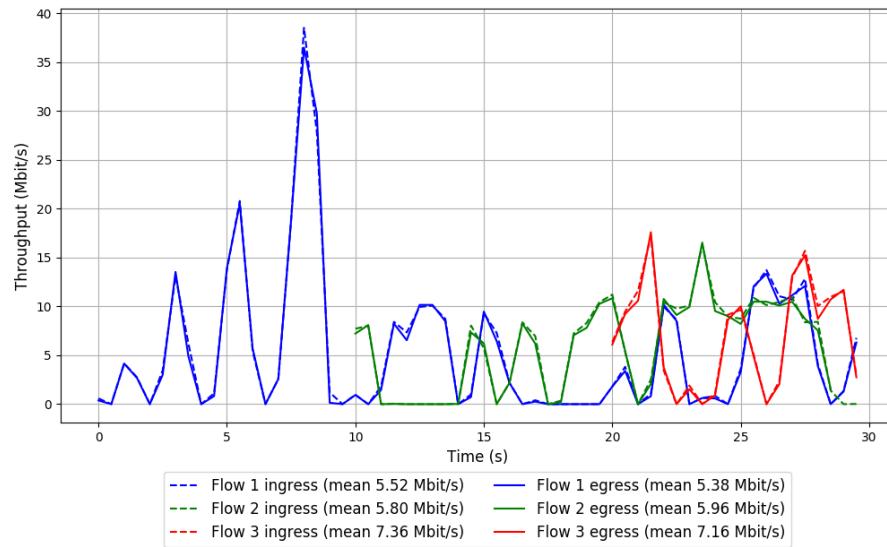


Run 10: Statistics of LEDBAT

```
Start at: 2018-04-24 23:33:46
End at: 2018-04-24 23:34:16
Local clock offset: -5.445 ms
Remote clock offset: -7.413 ms

# Below is generated by plot.py at 2018-04-25 00:15:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.37 Mbit/s
95th percentile per-packet one-way delay: 11.707 ms
Loss rate: 2.67%
-- Flow 1:
Average throughput: 5.38 Mbit/s
95th percentile per-packet one-way delay: 11.783 ms
Loss rate: 2.58%
-- Flow 2:
Average throughput: 5.96 Mbit/s
95th percentile per-packet one-way delay: 11.759 ms
Loss rate: 2.73%
-- Flow 3:
Average throughput: 7.16 Mbit/s
95th percentile per-packet one-way delay: 10.865 ms
Loss rate: 2.77%
```

Run 10: Report of LEDBAT — Data Link

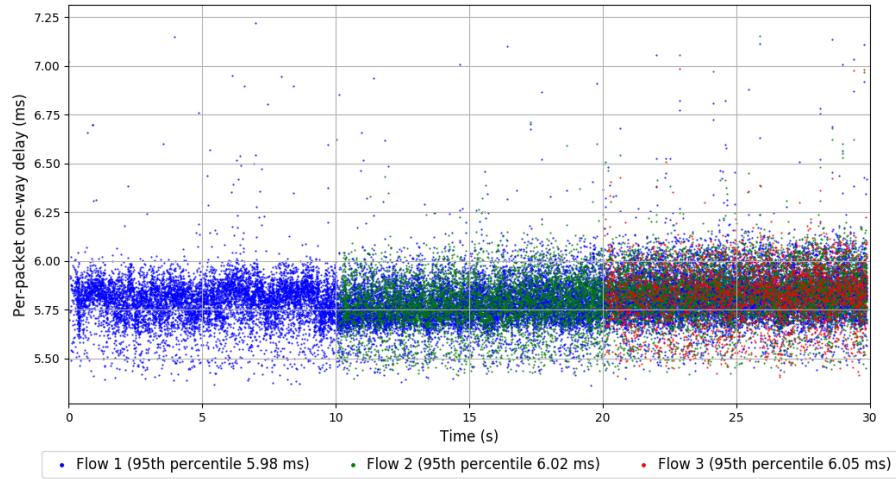
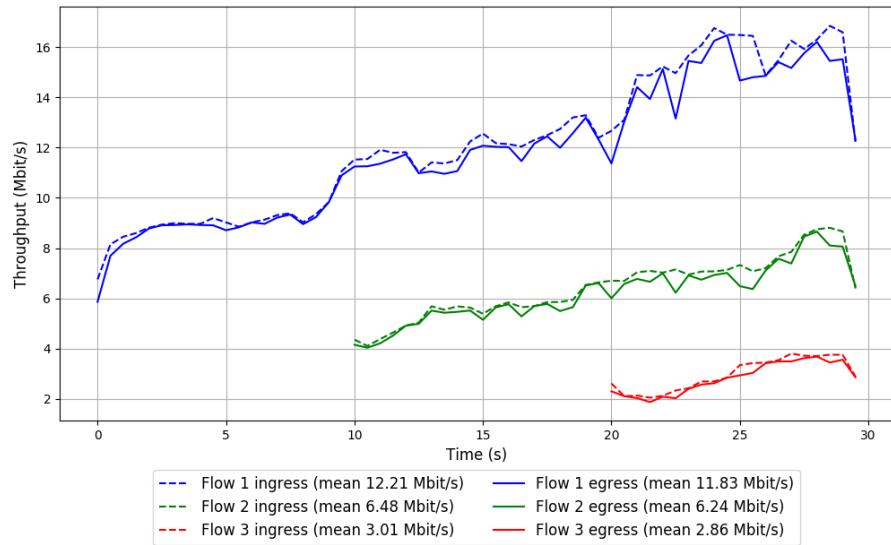


Run 1: Statistics of PCC-Allegro

```
Start at: 2018-04-24 20:41:53
End at: 2018-04-24 20:42:23
Local clock offset: 3.383 ms
Remote clock offset: -10.097 ms

# Below is generated by plot.py at 2018-04-25 00:15:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.92 Mbit/s
95th percentile per-packet one-way delay: 6.004 ms
Loss rate: 3.37%
-- Flow 1:
Average throughput: 11.83 Mbit/s
95th percentile per-packet one-way delay: 5.984 ms
Loss rate: 3.13%
-- Flow 2:
Average throughput: 6.24 Mbit/s
95th percentile per-packet one-way delay: 6.024 ms
Loss rate: 3.66%
-- Flow 3:
Average throughput: 2.86 Mbit/s
95th percentile per-packet one-way delay: 6.051 ms
Loss rate: 5.05%
```

Run 1: Report of PCC-Allegro — Data Link

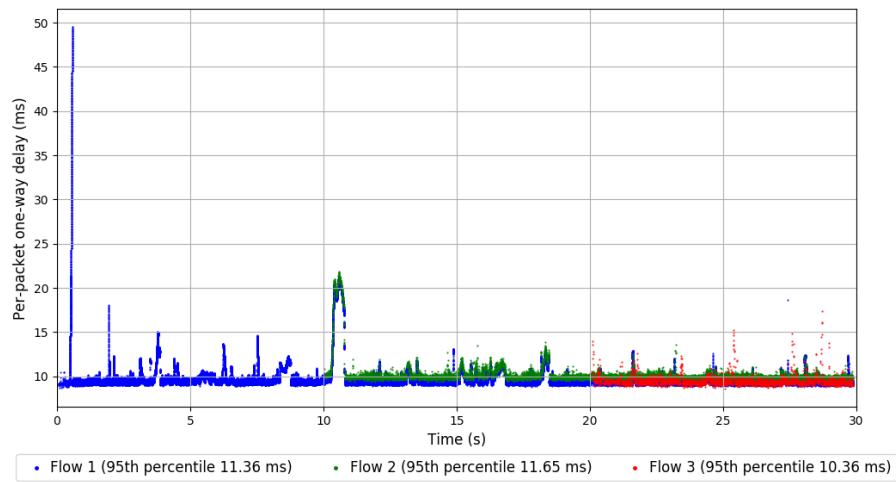
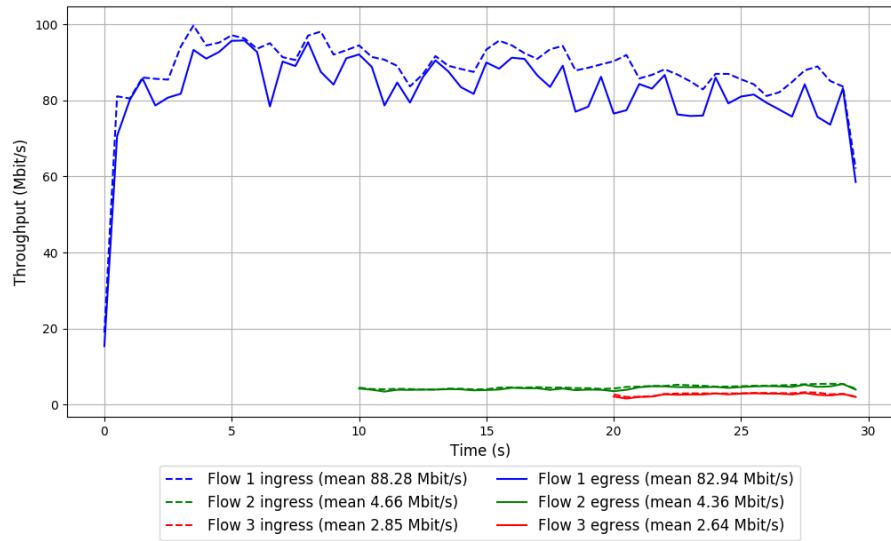


Run 2: Statistics of PCC-Allegro

```
Start at: 2018-04-24 21:01:36
End at: 2018-04-24 21:02:06
Local clock offset: -0.69 ms
Remote clock offset: -11.722 ms

# Below is generated by plot.py at 2018-04-25 00:16:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.71 Mbit/s
95th percentile per-packet one-way delay: 11.368 ms
Loss rate: 6.08%
-- Flow 1:
Average throughput: 82.94 Mbit/s
95th percentile per-packet one-way delay: 11.361 ms
Loss rate: 6.06%
-- Flow 2:
Average throughput: 4.36 Mbit/s
95th percentile per-packet one-way delay: 11.650 ms
Loss rate: 6.43%
-- Flow 3:
Average throughput: 2.64 Mbit/s
95th percentile per-packet one-way delay: 10.363 ms
Loss rate: 7.42%
```

Run 2: Report of PCC-Allegro — Data Link

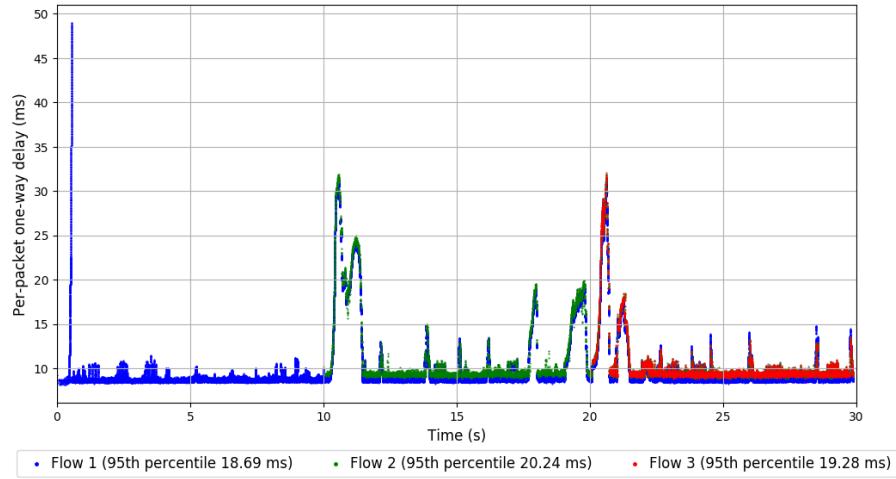
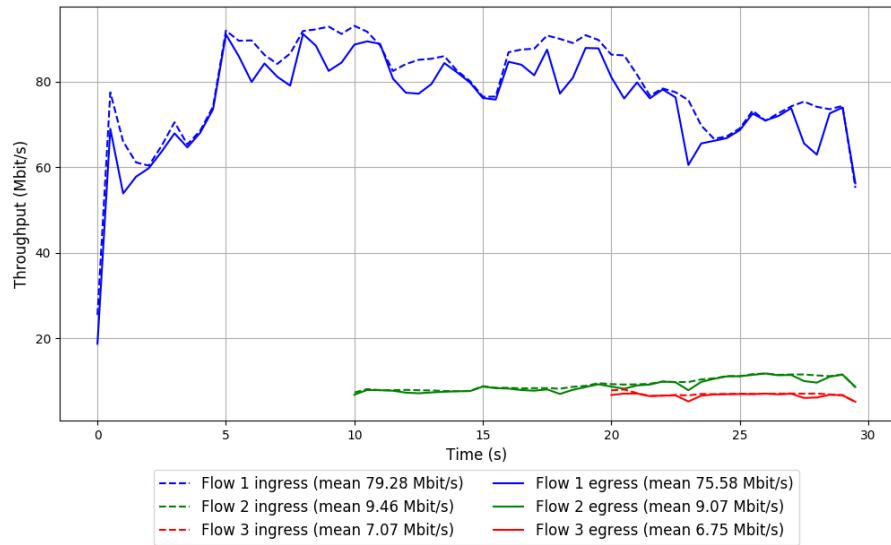


Run 3: Statistics of PCC-Allegro

```
Start at: 2018-04-24 21:21:10
End at: 2018-04-24 21:21:40
Local clock offset: -0.106 ms
Remote clock offset: -11.043 ms

# Below is generated by plot.py at 2018-04-25 00:16:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.83 Mbit/s
95th percentile per-packet one-way delay: 18.776 ms
Loss rate: 4.63%
-- Flow 1:
Average throughput: 75.58 Mbit/s
95th percentile per-packet one-way delay: 18.686 ms
Loss rate: 4.67%
-- Flow 2:
Average throughput: 9.07 Mbit/s
95th percentile per-packet one-way delay: 20.244 ms
Loss rate: 4.14%
-- Flow 3:
Average throughput: 6.75 Mbit/s
95th percentile per-packet one-way delay: 19.284 ms
Loss rate: 4.66%
```

Run 3: Report of PCC-Allegro — Data Link

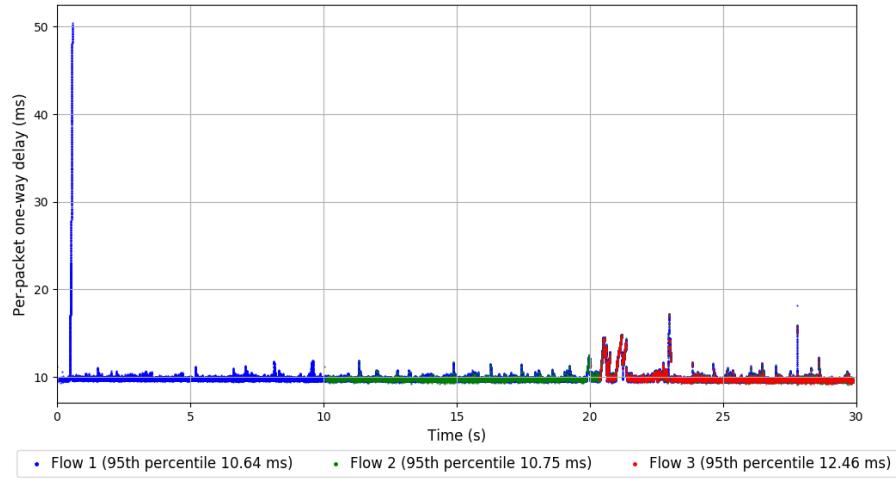
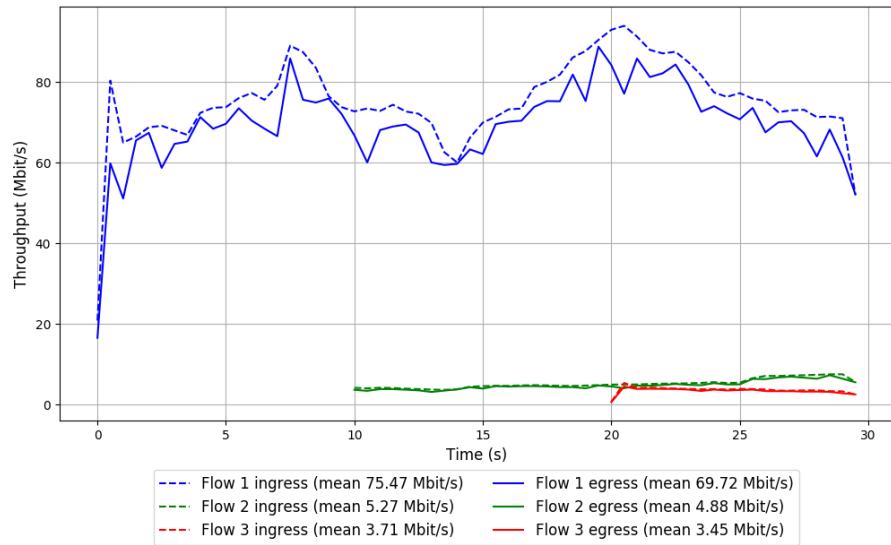


Run 4: Statistics of PCC-Allegro

```
Start at: 2018-04-24 21:40:36
End at: 2018-04-24 21:41:06
Local clock offset: -0.291 ms
Remote clock offset: -5.405 ms

# Below is generated by plot.py at 2018-04-25 00:16:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.10 Mbit/s
95th percentile per-packet one-way delay: 10.675 ms
Loss rate: 7.60%
-- Flow 1:
Average throughput: 69.72 Mbit/s
95th percentile per-packet one-way delay: 10.640 ms
Loss rate: 7.62%
-- Flow 2:
Average throughput: 4.88 Mbit/s
95th percentile per-packet one-way delay: 10.748 ms
Loss rate: 7.31%
-- Flow 3:
Average throughput: 3.45 Mbit/s
95th percentile per-packet one-way delay: 12.459 ms
Loss rate: 7.03%
```

Run 4: Report of PCC-Allegro — Data Link

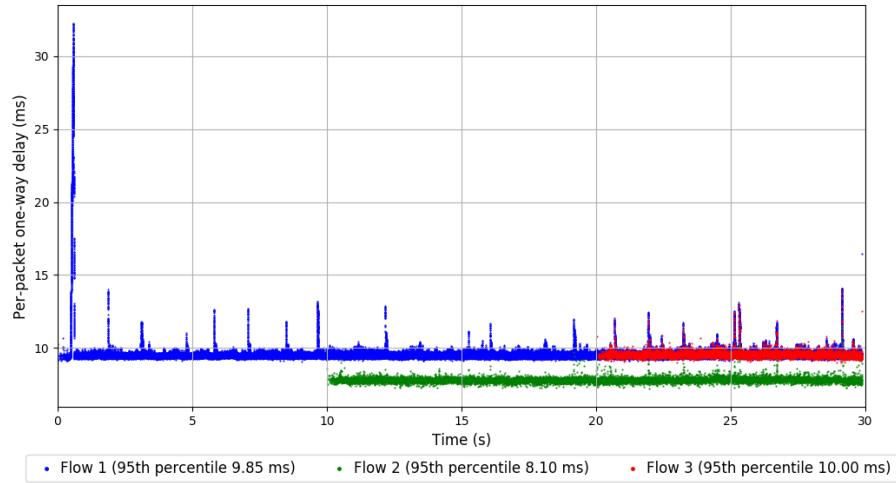
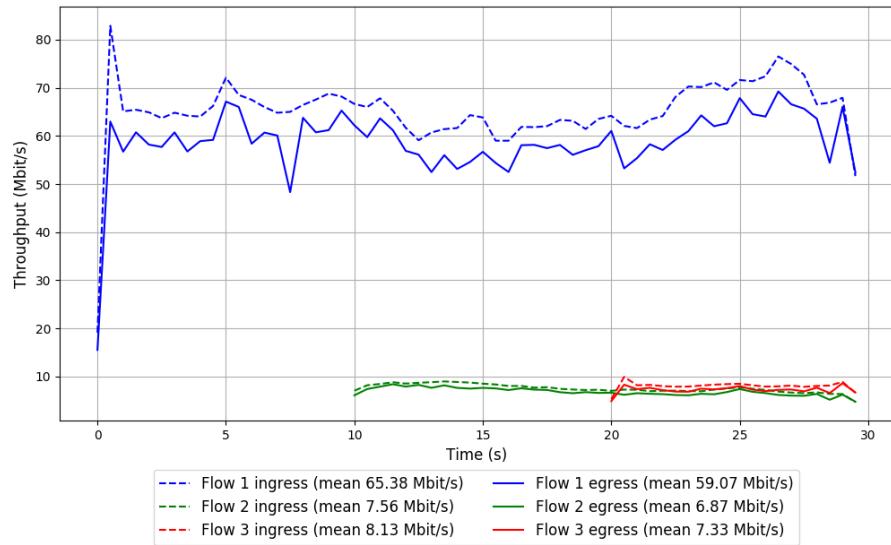


Run 5: Statistics of PCC-Allegro

```
Start at: 2018-04-24 22:00:12
End at: 2018-04-24 22:00:42
Local clock offset: 0.113 ms
Remote clock offset: -2.443 ms

# Below is generated by plot.py at 2018-04-25 00:16:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.06 Mbit/s
95th percentile per-packet one-way delay: 9.839 ms
Loss rate: 9.61%
-- Flow 1:
Average throughput: 59.07 Mbit/s
95th percentile per-packet one-way delay: 9.848 ms
Loss rate: 9.63%
-- Flow 2:
Average throughput: 6.87 Mbit/s
95th percentile per-packet one-way delay: 8.098 ms
Loss rate: 9.13%
-- Flow 3:
Average throughput: 7.33 Mbit/s
95th percentile per-packet one-way delay: 9.996 ms
Loss rate: 9.82%
```

Run 5: Report of PCC-Allegro — Data Link

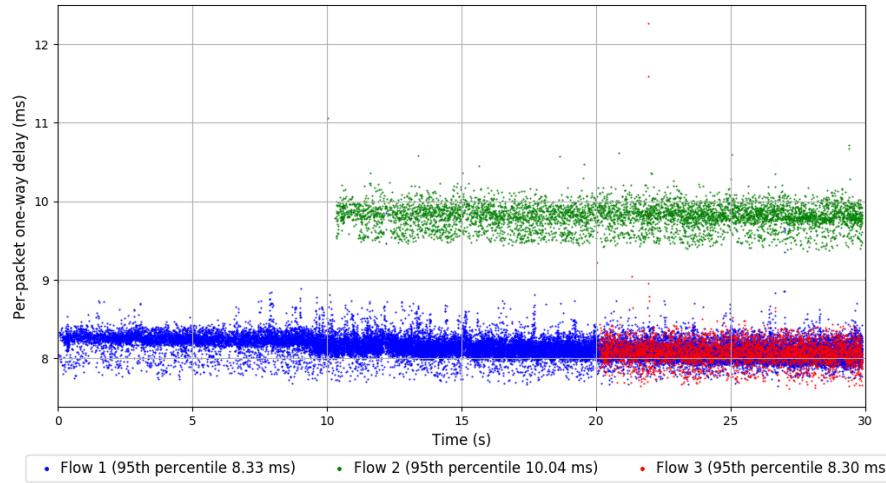
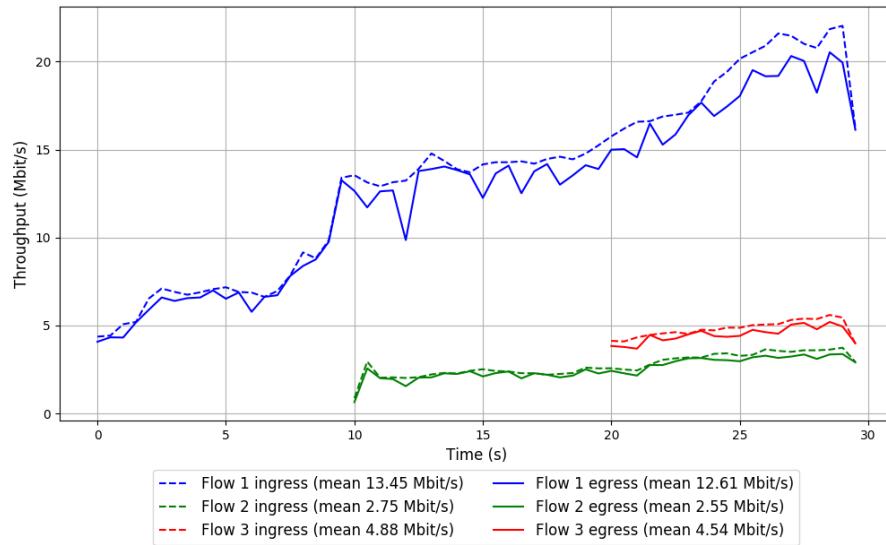


Run 6: Statistics of PCC-Allegro

```
Start at: 2018-04-24 22:19:59
End at: 2018-04-24 22:20:29
Local clock offset: -8.236 ms
Remote clock offset: -5.576 ms

# Below is generated by plot.py at 2018-04-25 00:16:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.80 Mbit/s
95th percentile per-packet one-way delay: 9.852 ms
Loss rate: 6.44%
-- Flow 1:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 8.331 ms
Loss rate: 6.29%
-- Flow 2:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 10.045 ms
Loss rate: 7.16%
-- Flow 3:
Average throughput: 4.54 Mbit/s
95th percentile per-packet one-way delay: 8.296 ms
Loss rate: 6.87%
```

Run 6: Report of PCC-Allegro — Data Link

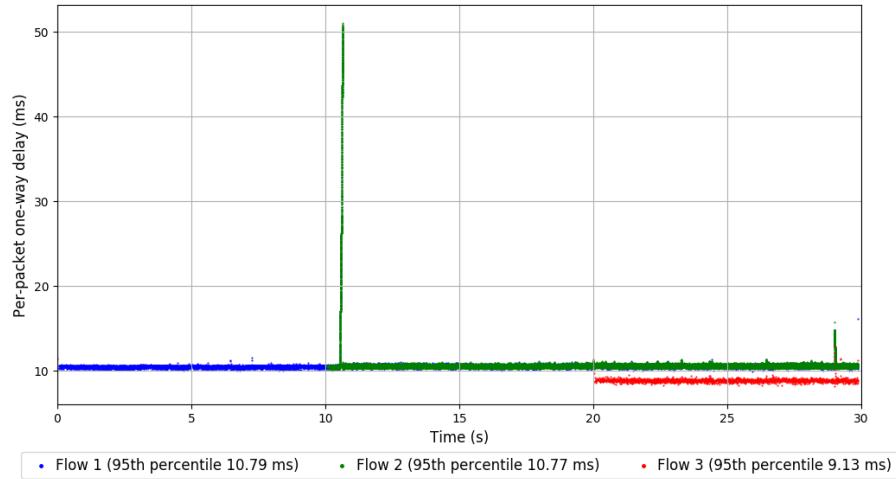
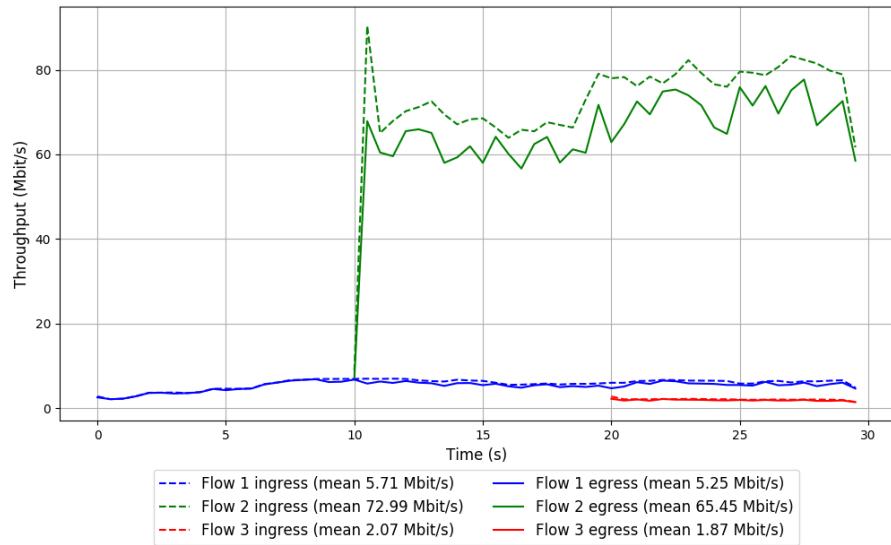


Run 7: Statistics of PCC-Allegro

```
Start at: 2018-04-24 22:39:48
End at: 2018-04-24 22:40:18
Local clock offset: -13.912 ms
Remote clock offset: -6.89 ms

# Below is generated by plot.py at 2018-04-25 00:16:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.40 Mbit/s
95th percentile per-packet one-way delay: 10.769 ms
Loss rate: 10.08%
-- Flow 1:
Average throughput: 5.25 Mbit/s
95th percentile per-packet one-way delay: 10.795 ms
Loss rate: 7.94%
-- Flow 2:
Average throughput: 65.45 Mbit/s
95th percentile per-packet one-way delay: 10.766 ms
Loss rate: 10.34%
-- Flow 3:
Average throughput: 1.87 Mbit/s
95th percentile per-packet one-way delay: 9.131 ms
Loss rate: 9.62%
```

Run 7: Report of PCC-Allegro — Data Link

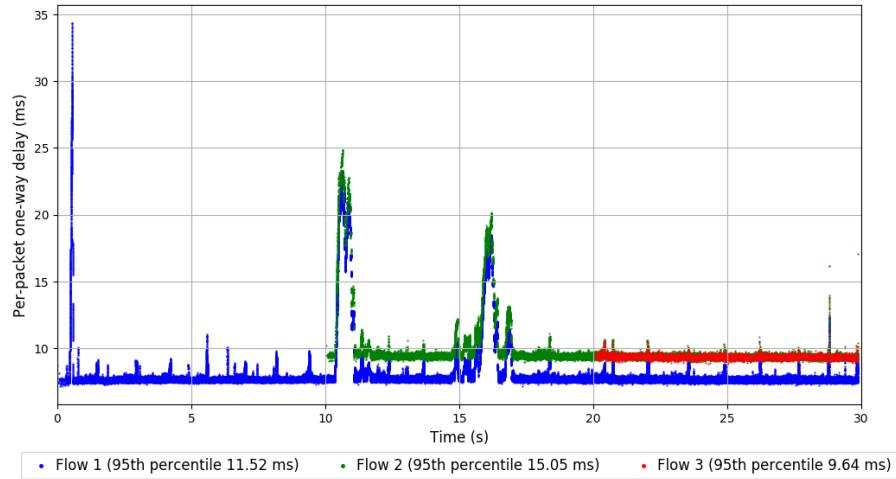
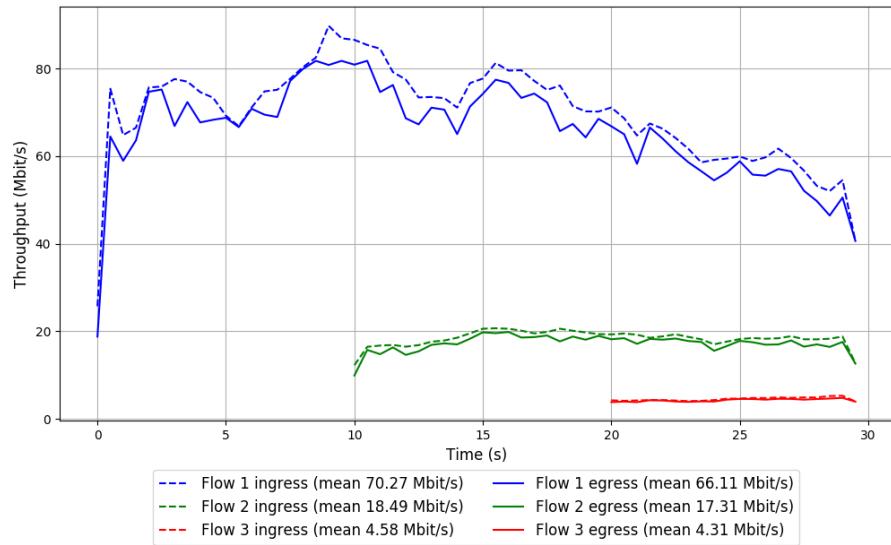


Run 8: Statistics of PCC-Allegro

```
Start at: 2018-04-24 22:59:36
End at: 2018-04-24 23:00:06
Local clock offset: -15.959 ms
Remote clock offset: -7.443 ms

# Below is generated by plot.py at 2018-04-25 00:16:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.02 Mbit/s
95th percentile per-packet one-way delay: 11.933 ms
Loss rate: 5.99%
-- Flow 1:
Average throughput: 66.11 Mbit/s
95th percentile per-packet one-way delay: 11.524 ms
Loss rate: 5.93%
-- Flow 2:
Average throughput: 17.31 Mbit/s
95th percentile per-packet one-way delay: 15.053 ms
Loss rate: 6.34%
-- Flow 3:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 9.636 ms
Loss rate: 5.93%
```

Run 8: Report of PCC-Allegro — Data Link

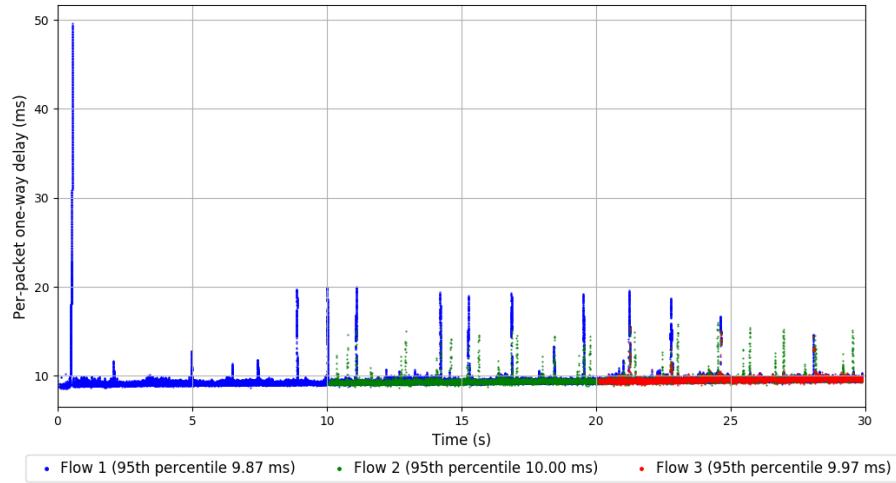
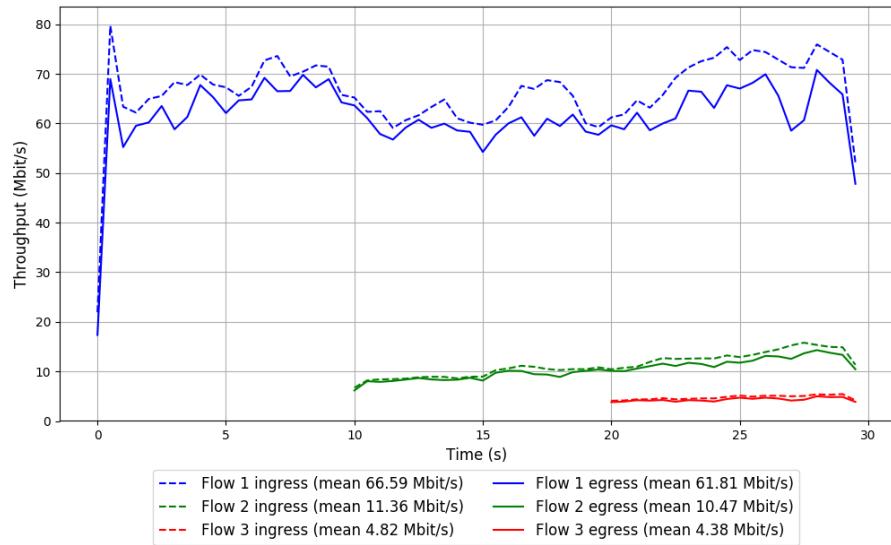


Run 9: Statistics of PCC-Allegro

```
Start at: 2018-04-24 23:19:45
End at: 2018-04-24 23:20:15
Local clock offset: -13.599 ms
Remote clock offset: -7.402 ms

# Below is generated by plot.py at 2018-04-25 00:16:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.21 Mbit/s
95th percentile per-packet one-way delay: 9.883 ms
Loss rate: 7.29%
-- Flow 1:
Average throughput: 61.81 Mbit/s
95th percentile per-packet one-way delay: 9.865 ms
Loss rate: 7.18%
-- Flow 2:
Average throughput: 10.47 Mbit/s
95th percentile per-packet one-way delay: 9.997 ms
Loss rate: 7.89%
-- Flow 3:
Average throughput: 4.38 Mbit/s
95th percentile per-packet one-way delay: 9.967 ms
Loss rate: 9.22%
```

Run 9: Report of PCC-Allegro — Data Link

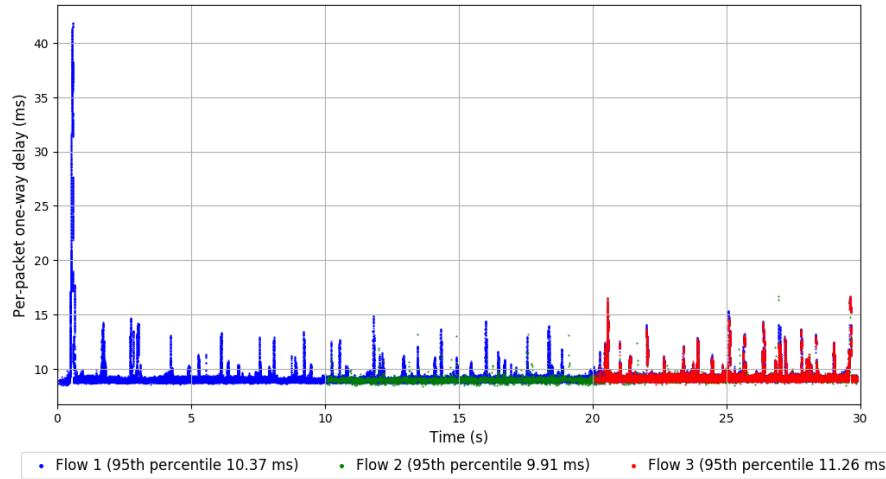
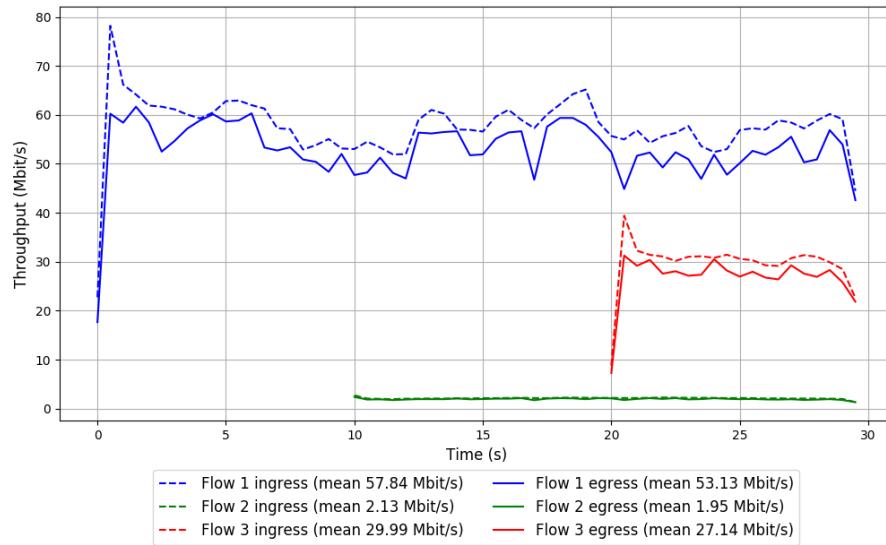


Run 10: Statistics of PCC-Allegro

```
Start at: 2018-04-24 23:39:24
End at: 2018-04-24 23:39:54
Local clock offset: -3.521 ms
Remote clock offset: -7.392 ms

# Below is generated by plot.py at 2018-04-25 00:16:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.38 Mbit/s
95th percentile per-packet one-way delay: 10.504 ms
Loss rate: 8.35%
-- Flow 1:
Average throughput: 53.13 Mbit/s
95th percentile per-packet one-way delay: 10.369 ms
Loss rate: 8.16%
-- Flow 2:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 9.915 ms
Loss rate: 8.32%
-- Flow 3:
Average throughput: 27.14 Mbit/s
95th percentile per-packet one-way delay: 11.258 ms
Loss rate: 9.51%
```

Run 10: Report of PCC-Allegro — Data Link

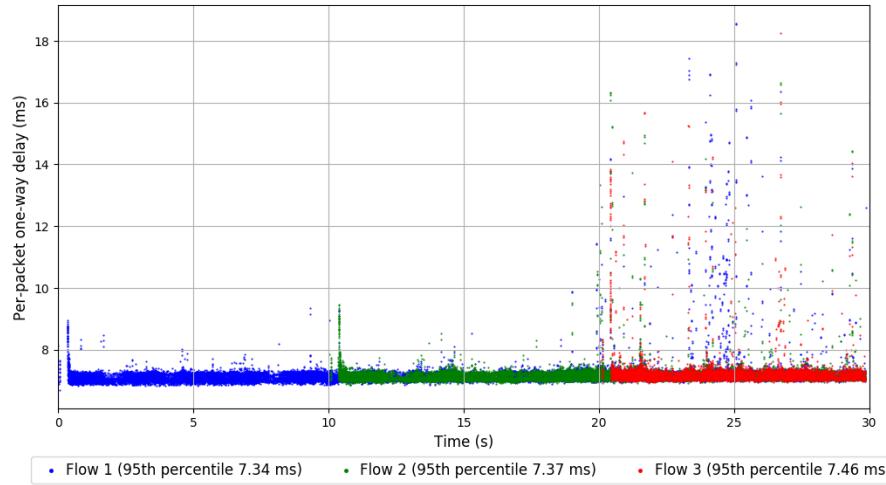
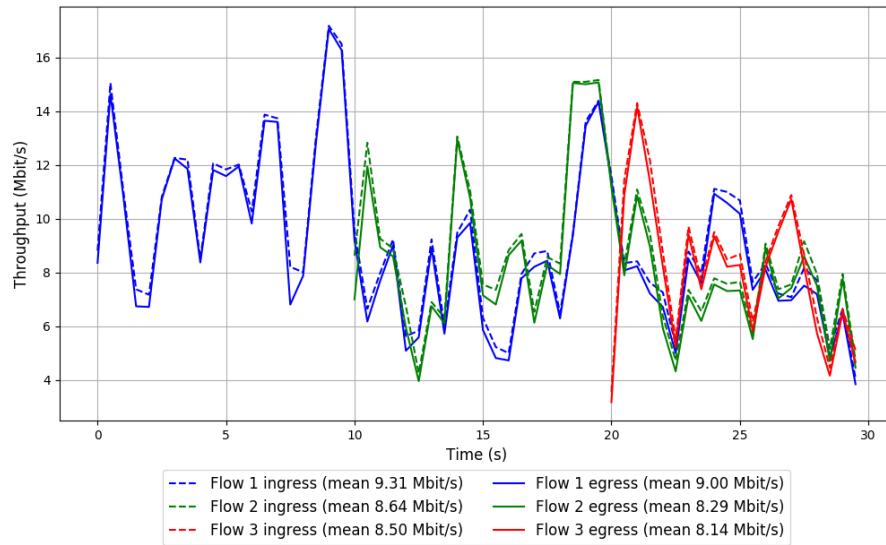


Run 1: Statistics of QUIC Cubic

```
Start at: 2018-04-24 20:40:47
End at: 2018-04-24 20:41:17
Local clock offset: 1.695 ms
Remote clock offset: -10.258 ms

# Below is generated by plot.py at 2018-04-25 00:16:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.17 Mbit/s
95th percentile per-packet one-way delay: 7.366 ms
Loss rate: 3.72%
-- Flow 1:
Average throughput: 9.00 Mbit/s
95th percentile per-packet one-way delay: 7.343 ms
Loss rate: 3.37%
-- Flow 2:
Average throughput: 8.29 Mbit/s
95th percentile per-packet one-way delay: 7.370 ms
Loss rate: 4.04%
-- Flow 3:
Average throughput: 8.14 Mbit/s
95th percentile per-packet one-way delay: 7.457 ms
Loss rate: 4.20%
```

Run 1: Report of QUIC Cubic — Data Link

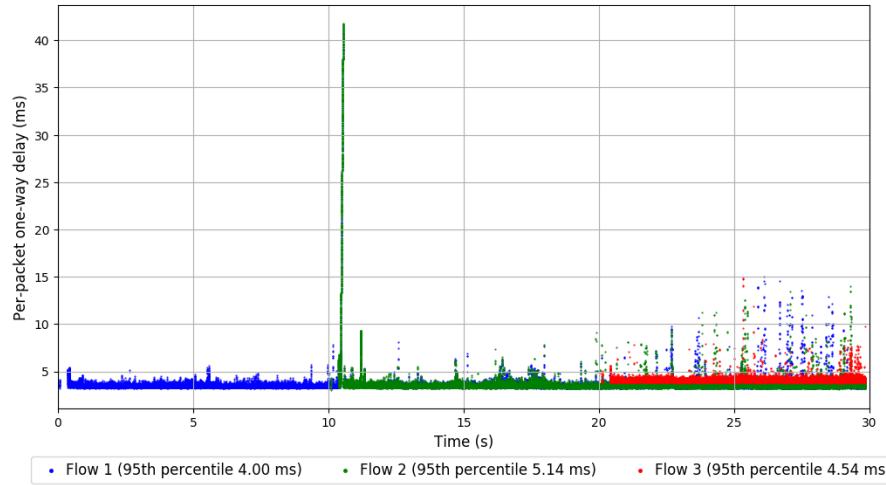
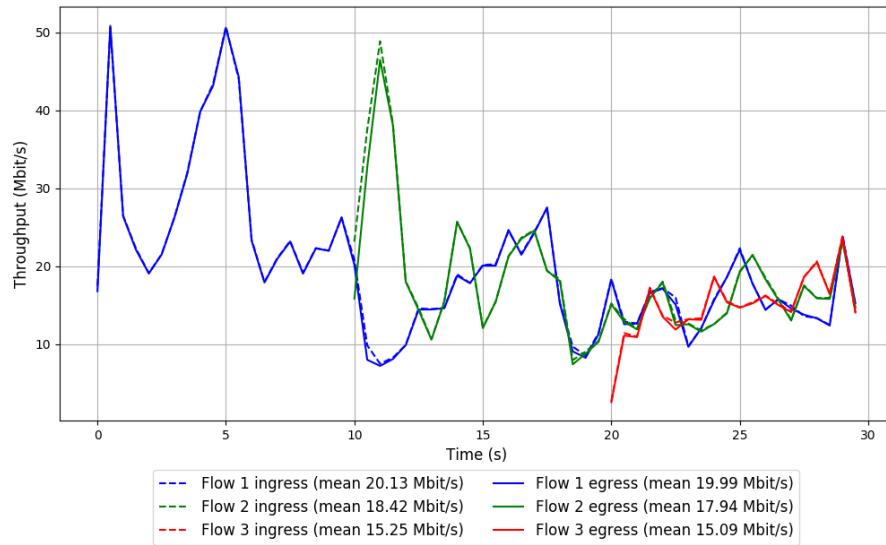


Run 2: Statistics of QUIC Cubic

```
Start at: 2018-04-24 21:00:29
End at: 2018-04-24 21:00:59
Local clock offset: 5.309 ms
Remote clock offset: -11.575 ms

# Below is generated by plot.py at 2018-04-25 00:17:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.84 Mbit/s
95th percentile per-packet one-way delay: 4.389 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 19.99 Mbit/s
95th percentile per-packet one-way delay: 4.000 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 17.94 Mbit/s
95th percentile per-packet one-way delay: 5.143 ms
Loss rate: 2.62%
-- Flow 3:
Average throughput: 15.09 Mbit/s
95th percentile per-packet one-way delay: 4.543 ms
Loss rate: 0.94%
```

Run 2: Report of QUIC Cubic — Data Link

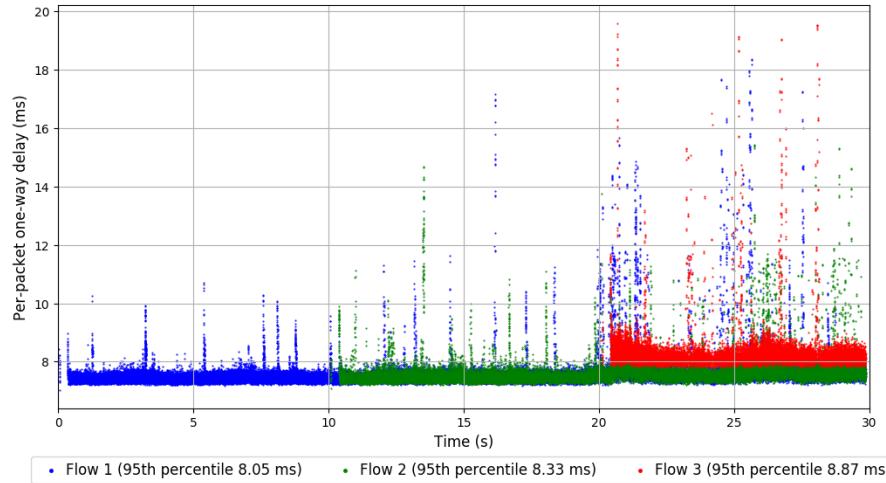
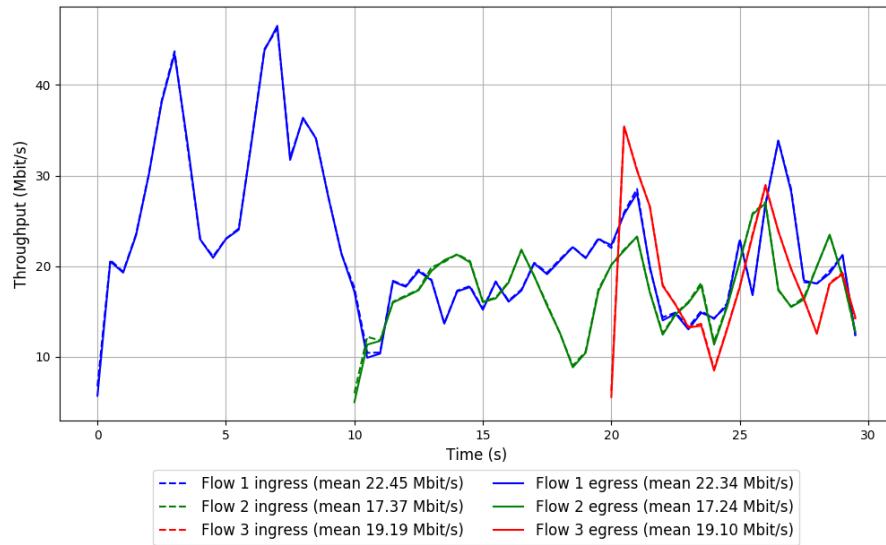


Run 3: Statistics of QUIC Cubic

```
Start at: 2018-04-24 21:20:03
End at: 2018-04-24 21:20:33
Local clock offset: 0.488 ms
Remote clock offset: -11.486 ms

# Below is generated by plot.py at 2018-04-25 00:17:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.05 Mbit/s
95th percentile per-packet one-way delay: 8.507 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 22.34 Mbit/s
95th percentile per-packet one-way delay: 8.048 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 17.24 Mbit/s
95th percentile per-packet one-way delay: 8.328 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 19.10 Mbit/s
95th percentile per-packet one-way delay: 8.868 ms
Loss rate: 0.49%
```

Run 3: Report of QUIC Cubic — Data Link

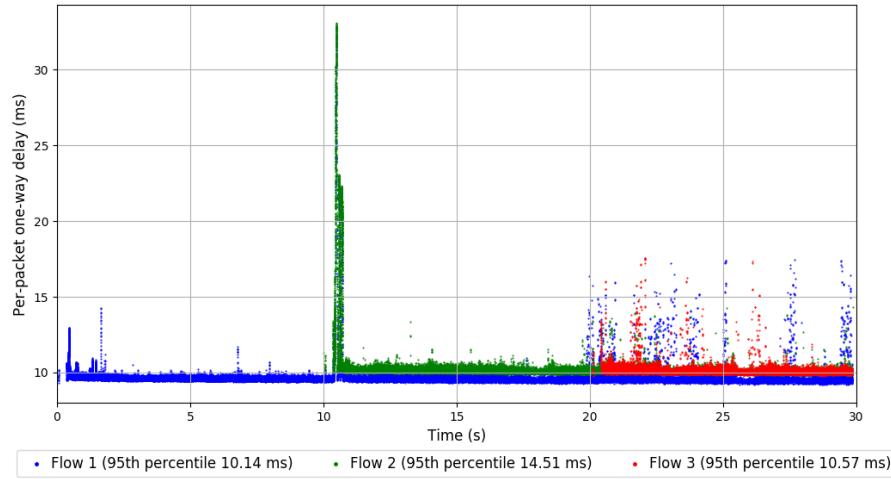
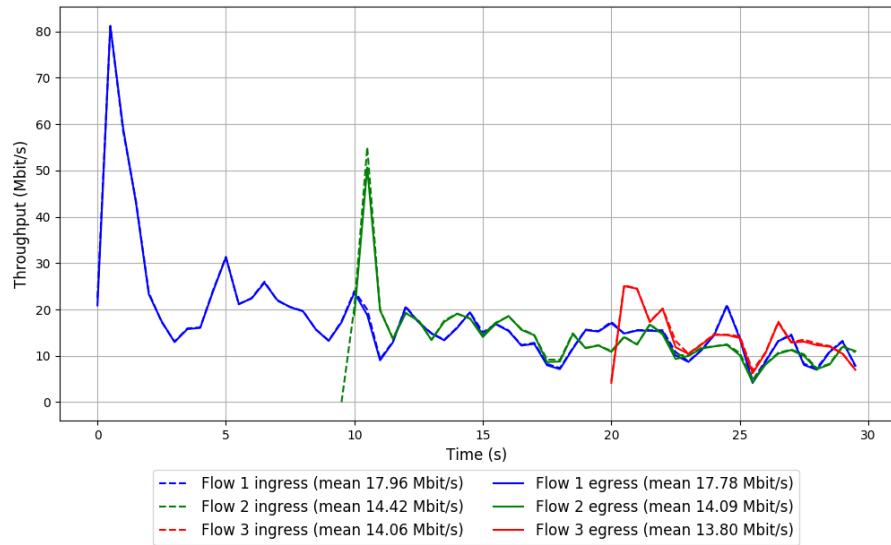


Run 4: Statistics of QUIC Cubic

```
Start at: 2018-04-24 21:39:28
End at: 2018-04-24 21:39:58
Local clock offset: -0.892 ms
Remote clock offset: -5.961 ms

# Below is generated by plot.py at 2018-04-25 00:17:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.67 Mbit/s
95th percentile per-packet one-way delay: 10.698 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 17.78 Mbit/s
95th percentile per-packet one-way delay: 10.143 ms
Loss rate: 1.04%
-- Flow 2:
Average throughput: 14.09 Mbit/s
95th percentile per-packet one-way delay: 14.512 ms
Loss rate: 2.27%
-- Flow 3:
Average throughput: 13.80 Mbit/s
95th percentile per-packet one-way delay: 10.574 ms
Loss rate: 1.82%
```

Run 4: Report of QUIC Cubic — Data Link

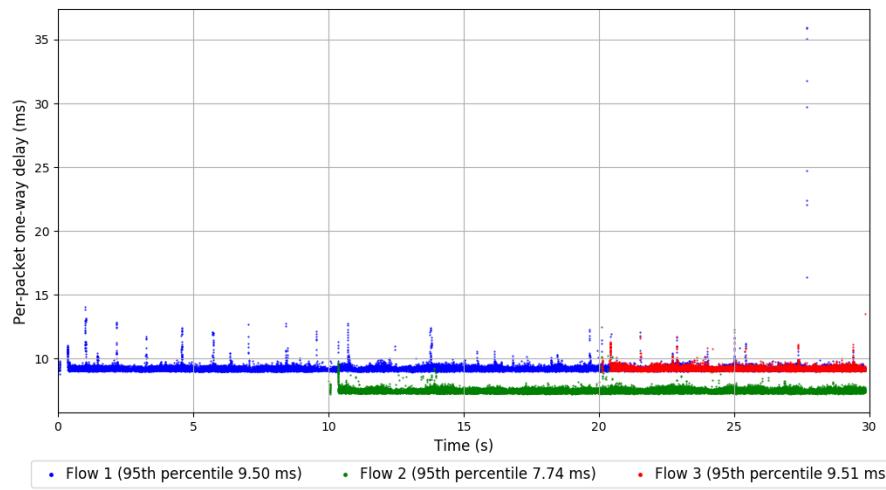
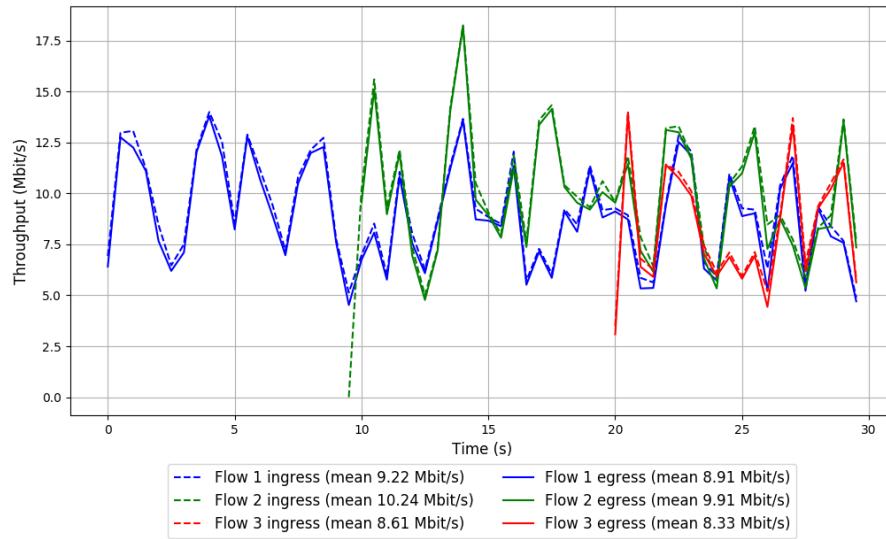


Run 5: Statistics of QUIC Cubic

```
Start at: 2018-04-24 21:59:06
End at: 2018-04-24 21:59:36
Local clock offset: 0.06 ms
Remote clock offset: -2.781 ms

# Below is generated by plot.py at 2018-04-25 00:17:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.24 Mbit/s
95th percentile per-packet one-way delay: 9.436 ms
Loss rate: 3.28%
-- Flow 1:
Average throughput: 8.91 Mbit/s
95th percentile per-packet one-way delay: 9.503 ms
Loss rate: 3.37%
-- Flow 2:
Average throughput: 9.91 Mbit/s
95th percentile per-packet one-way delay: 7.742 ms
Loss rate: 3.18%
-- Flow 3:
Average throughput: 8.33 Mbit/s
95th percentile per-packet one-way delay: 9.509 ms
Loss rate: 3.22%
```

Run 5: Report of QUIC Cubic — Data Link

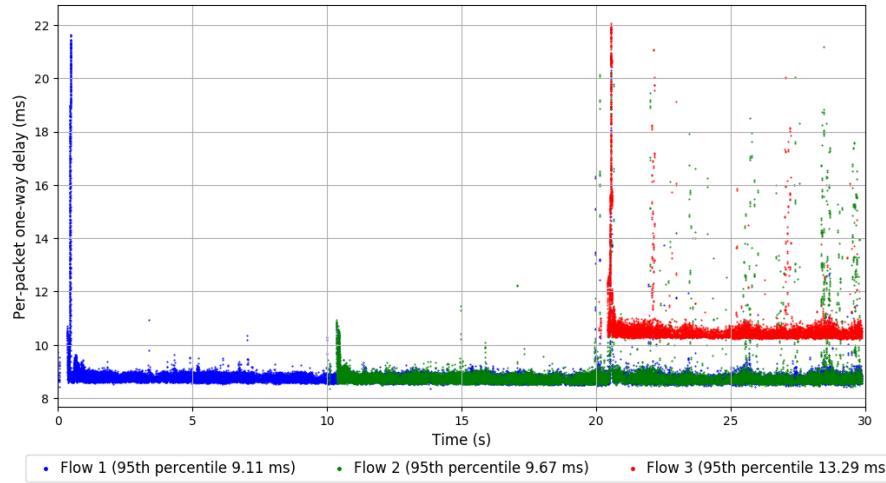
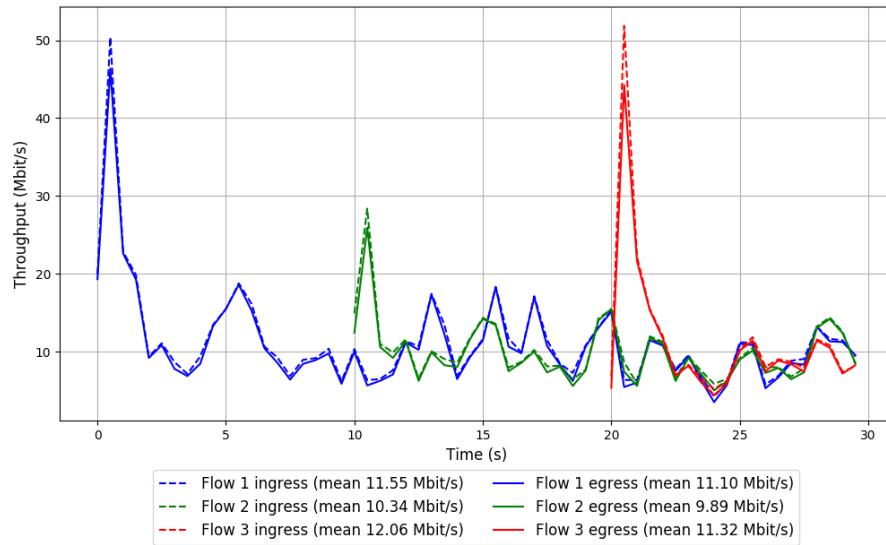


Run 6: Statistics of QUIC Cubic

```
Start at: 2018-04-24 22:18:52
End at: 2018-04-24 22:19:22
Local clock offset: -9.077 ms
Remote clock offset: -6.096 ms

# Below is generated by plot.py at 2018-04-25 00:17:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.39 Mbit/s
95th percentile per-packet one-way delay: 10.677 ms
Loss rate: 4.41%
-- Flow 1:
Average throughput: 11.10 Mbit/s
95th percentile per-packet one-way delay: 9.112 ms
Loss rate: 3.83%
-- Flow 2:
Average throughput: 9.89 Mbit/s
95th percentile per-packet one-way delay: 9.673 ms
Loss rate: 4.36%
-- Flow 3:
Average throughput: 11.32 Mbit/s
95th percentile per-packet one-way delay: 13.285 ms
Loss rate: 6.19%
```

Run 6: Report of QUIC Cubic — Data Link

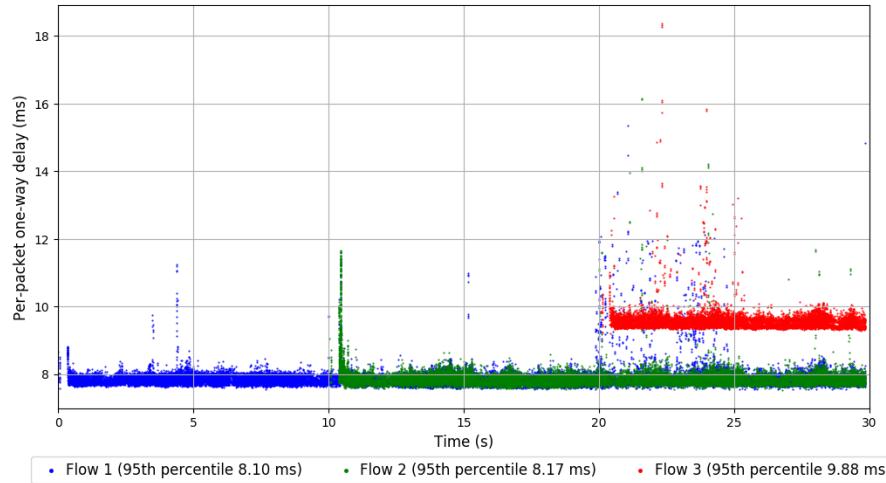
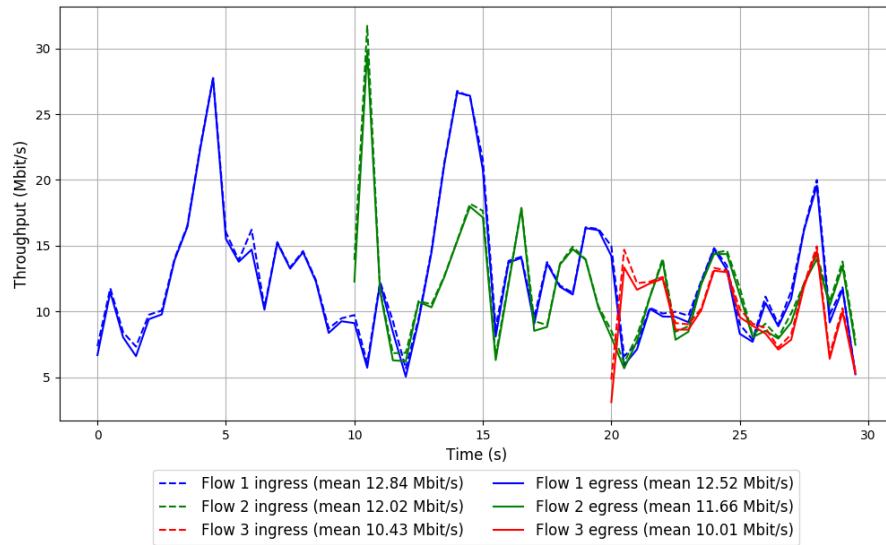


Run 7: Statistics of QUIC Cubic

```
Start at: 2018-04-24 22:38:39
End at: 2018-04-24 22:39:09
Local clock offset: -12.815 ms
Remote clock offset: -6.867 ms

# Below is generated by plot.py at 2018-04-25 00:17:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.54 Mbit/s
95th percentile per-packet one-way delay: 9.632 ms
Loss rate: 2.87%
-- Flow 1:
Average throughput: 12.52 Mbit/s
95th percentile per-packet one-way delay: 8.103 ms
Loss rate: 2.49%
-- Flow 2:
Average throughput: 11.66 Mbit/s
95th percentile per-packet one-way delay: 8.168 ms
Loss rate: 2.99%
-- Flow 3:
Average throughput: 10.01 Mbit/s
95th percentile per-packet one-way delay: 9.879 ms
Loss rate: 4.05%
```

Run 7: Report of QUIC Cubic — Data Link

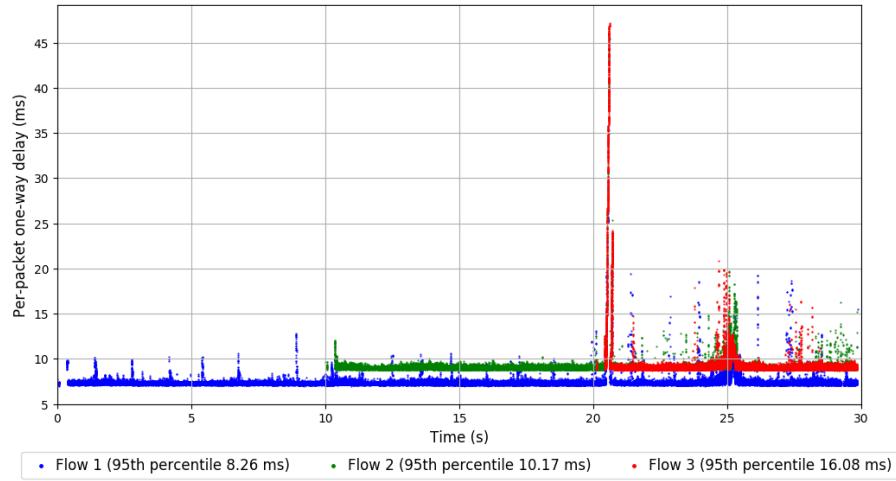
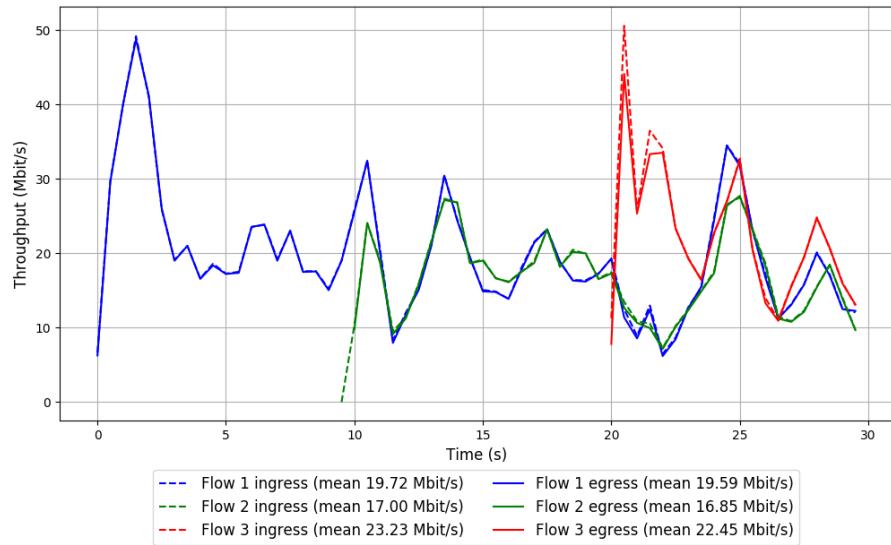


Run 8: Statistics of QUIC Cubic

```
Start at: 2018-04-24 22:58:28
End at: 2018-04-24 22:58:58
Local clock offset: -15.464 ms
Remote clock offset: -7.342 ms

# Below is generated by plot.py at 2018-04-25 00:17:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.14 Mbit/s
95th percentile per-packet one-way delay: 9.955 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 19.59 Mbit/s
95th percentile per-packet one-way delay: 8.259 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 16.85 Mbit/s
95th percentile per-packet one-way delay: 10.174 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 22.45 Mbit/s
95th percentile per-packet one-way delay: 16.079 ms
Loss rate: 3.37%
```

Run 8: Report of QUIC Cubic — Data Link

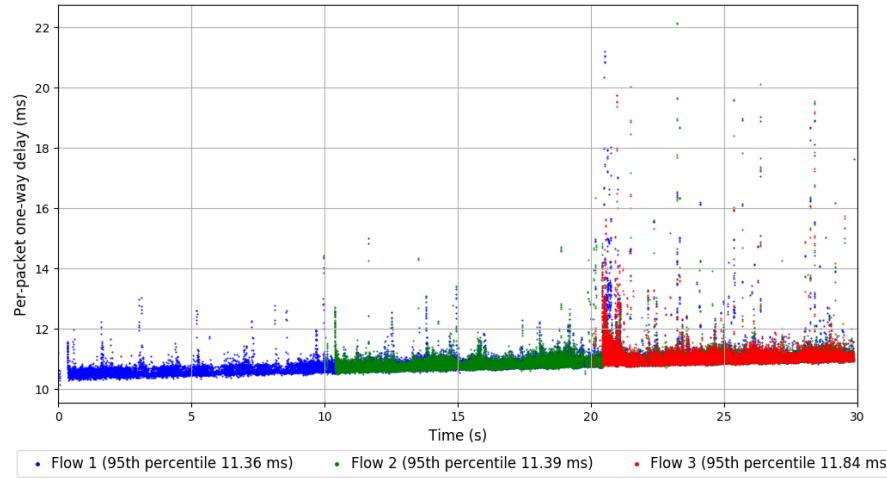
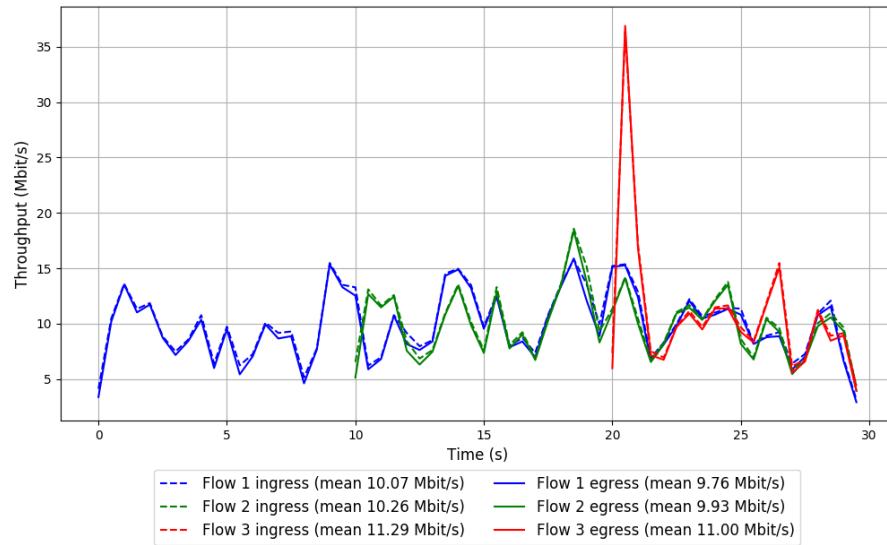


Run 9: Statistics of QUIC Cubic

```
Start at: 2018-04-24 23:18:33
End at: 2018-04-24 23:19:03
Local clock offset: -14.014 ms
Remote clock offset: -6.376 ms

# Below is generated by plot.py at 2018-04-25 00:17:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.96 Mbit/s
95th percentile per-packet one-way delay: 11.451 ms
Loss rate: 3.06%
-- Flow 1:
Average throughput: 9.76 Mbit/s
95th percentile per-packet one-way delay: 11.357 ms
Loss rate: 3.07%
-- Flow 2:
Average throughput: 9.93 Mbit/s
95th percentile per-packet one-way delay: 11.392 ms
Loss rate: 3.28%
-- Flow 3:
Average throughput: 11.00 Mbit/s
95th percentile per-packet one-way delay: 11.837 ms
Loss rate: 2.63%
```

Run 9: Report of QUIC Cubic — Data Link

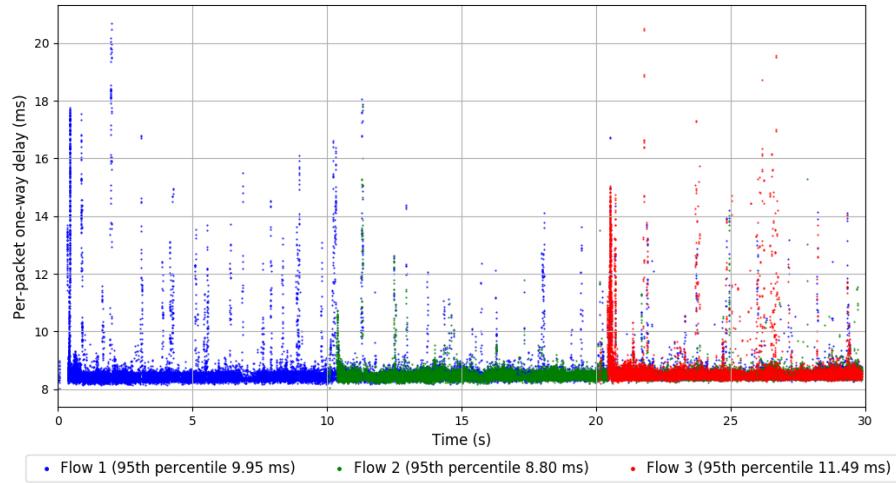
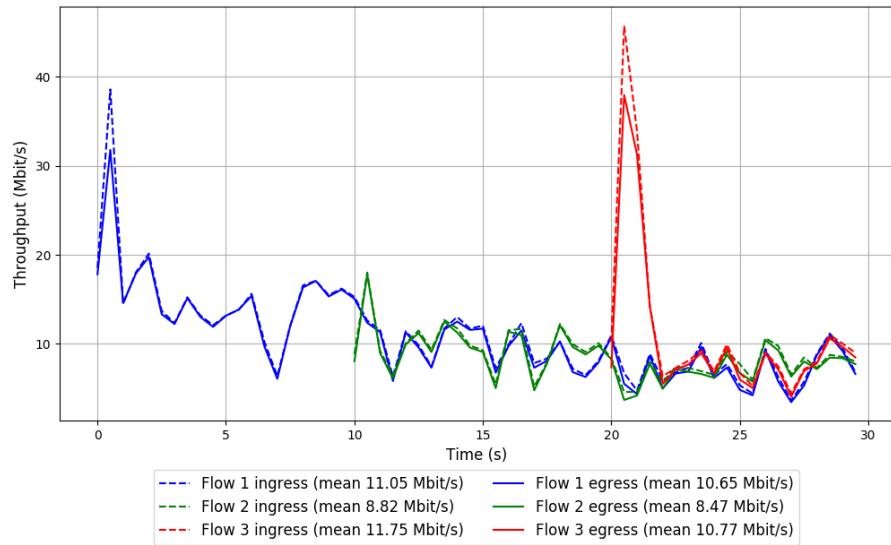


Run 10: Statistics of QUIC Cubic

```
Start at: 2018-04-24 23:38:18
End at: 2018-04-24 23:38:48
Local clock offset: -3.655 ms
Remote clock offset: -7.771 ms

# Below is generated by plot.py at 2018-04-25 00:17:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.81 Mbit/s
95th percentile per-packet one-way delay: 9.737 ms
Loss rate: 4.60%
-- Flow 1:
Average throughput: 10.65 Mbit/s
95th percentile per-packet one-way delay: 9.953 ms
Loss rate: 3.63%
-- Flow 2:
Average throughput: 8.47 Mbit/s
95th percentile per-packet one-way delay: 8.801 ms
Loss rate: 3.97%
-- Flow 3:
Average throughput: 10.77 Mbit/s
95th percentile per-packet one-way delay: 11.488 ms
Loss rate: 8.37%
```

Run 10: Report of QUIC Cubic — Data Link

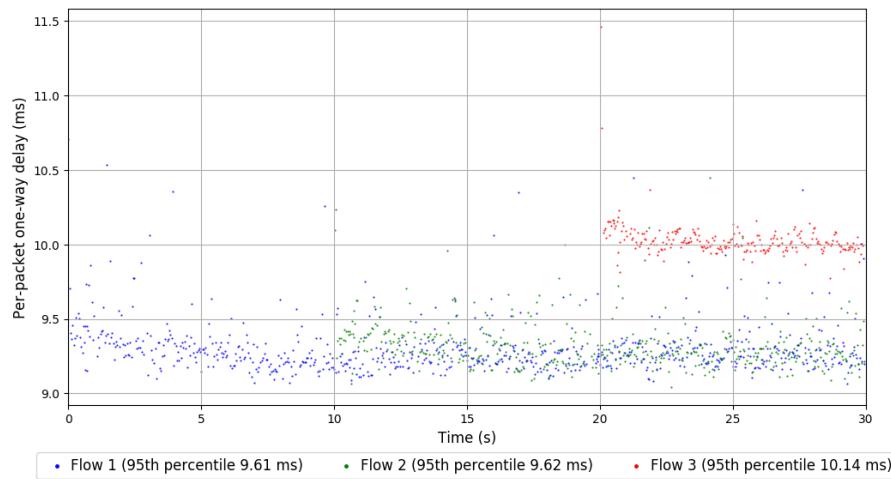
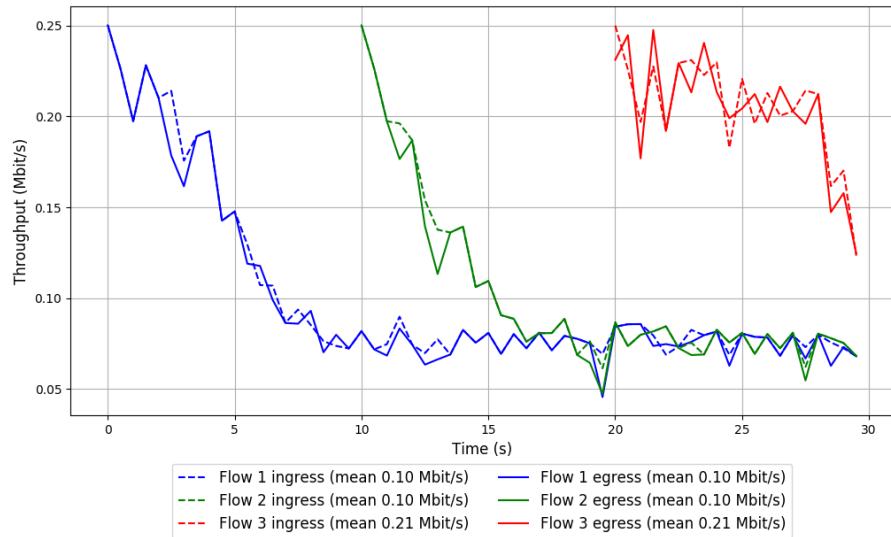


```
Run 1: Statistics of SCReAM

Start at: 2018-04-24 20:44:16
End at: 2018-04-24 20:44:46
Local clock offset: -0.295 ms
Remote clock offset: -9.991 ms

# Below is generated by plot.py at 2018-04-25 00:17:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 10.064 ms
Loss rate: 2.00%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 9.614 ms
Loss rate: 2.35%
-- Flow 2:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 9.617 ms
Loss rate: 2.42%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 10.143 ms
Loss rate: 1.07%
```

Run 1: Report of SCReAM — Data Link

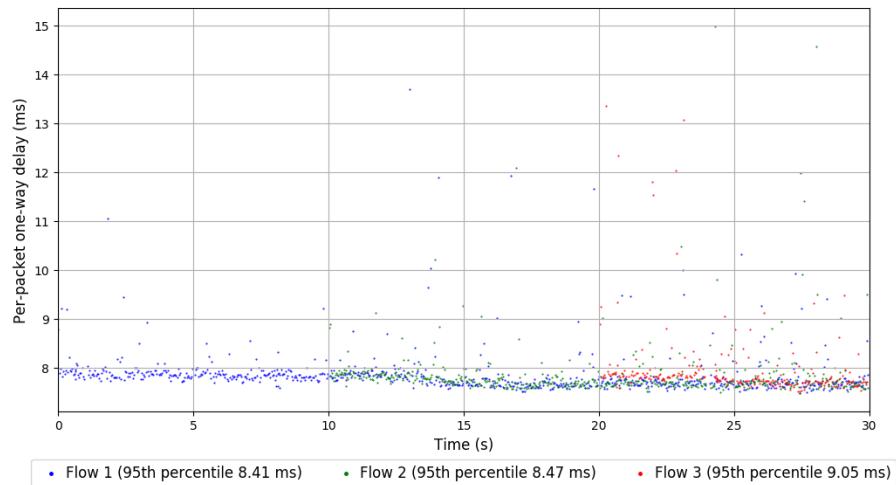
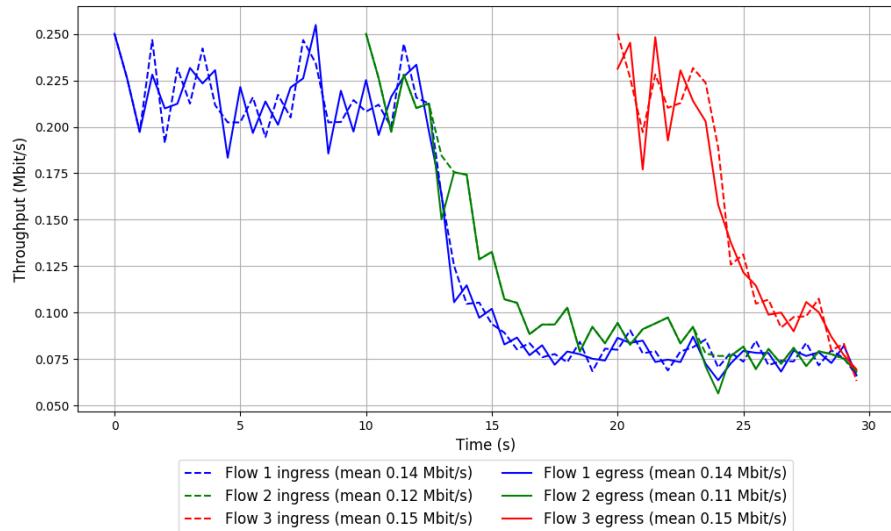


Run 2: Statistics of SCReAM

```
Start at: 2018-04-24 21:03:59
End at: 2018-04-24 21:04:29
Local clock offset: 0.671 ms
Remote clock offset: -11.335 ms

# Below is generated by plot.py at 2018-04-25 00:17:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 8.518 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 8.408 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 8.472 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 9.050 ms
Loss rate: 1.88%
```

Run 2: Report of SCReAM — Data Link

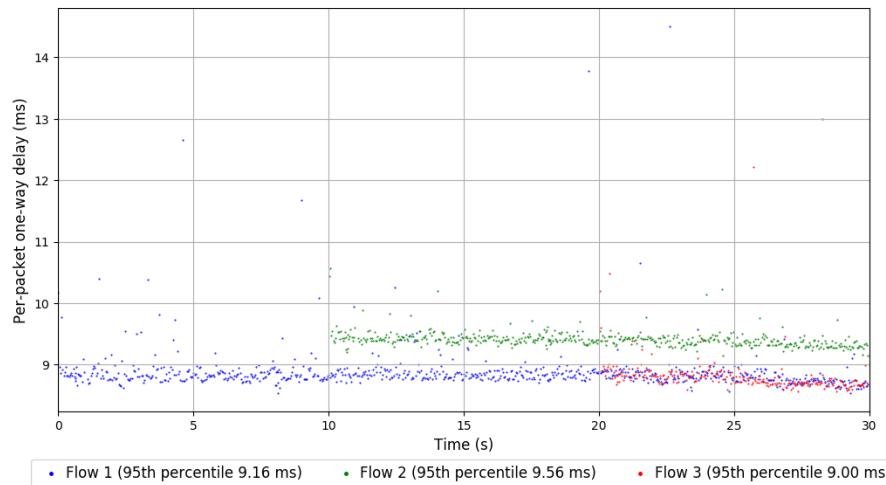
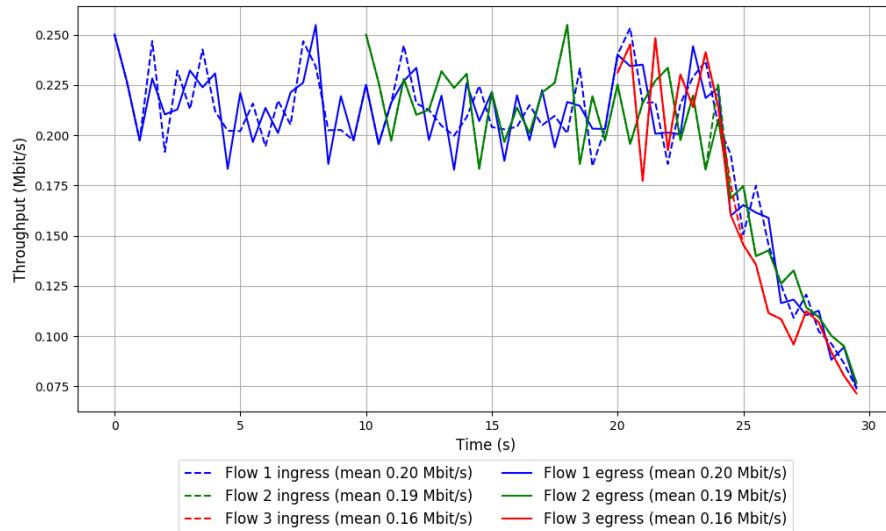


```
Run 3: Statistics of SCReAM

Start at: 2018-04-24 21:23:32
End at: 2018-04-24 21:24:02
Local clock offset: 0.031 ms
Remote clock offset: -10.66 ms

# Below is generated by plot.py at 2018-04-25 00:17:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 9.516 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 9.159 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 9.559 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 9.002 ms
Loss rate: 0.47%
```

Run 3: Report of SCReAM — Data Link

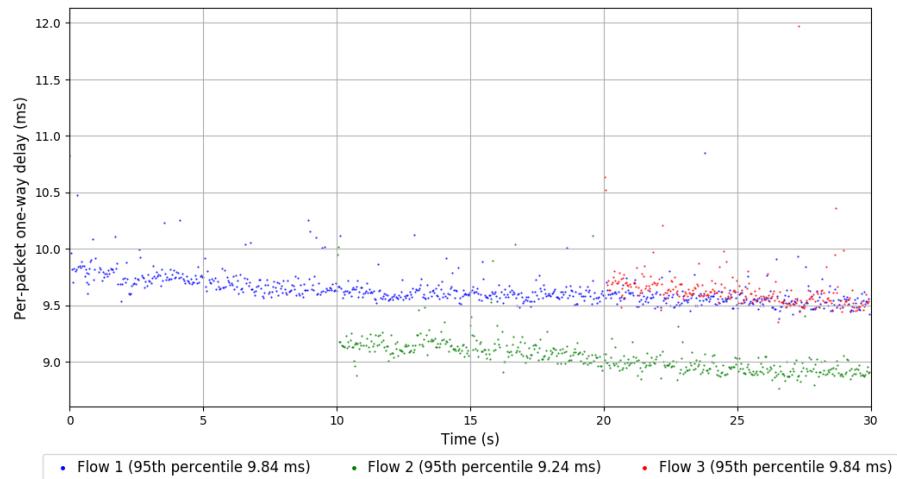
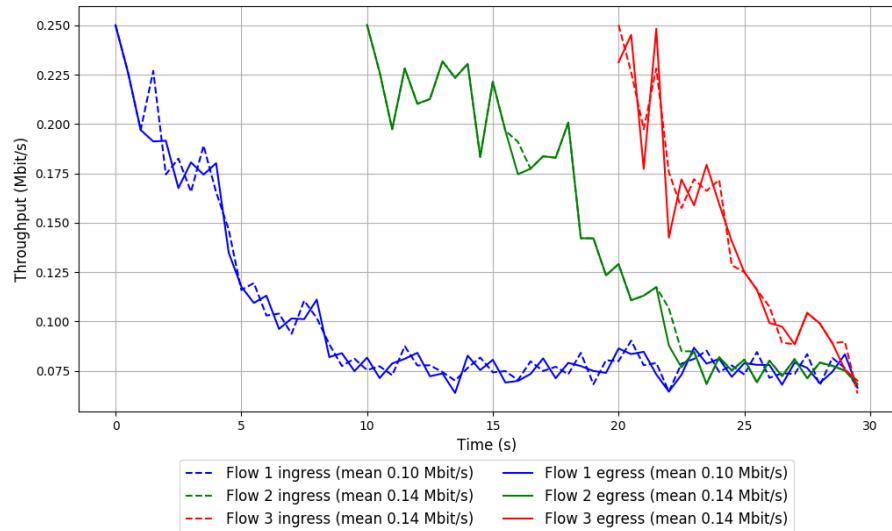


Run 4: Statistics of SCReAM

```
Start at: 2018-04-24 21:42:58
End at: 2018-04-24 21:43:28
Local clock offset: -0.702 ms
Remote clock offset: -4.839 ms

# Below is generated by plot.py at 2018-04-25 00:17:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 9.816 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 9.840 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 9.236 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 9.838 ms
Loss rate: 0.92%
```

Run 4: Report of SCReAM — Data Link

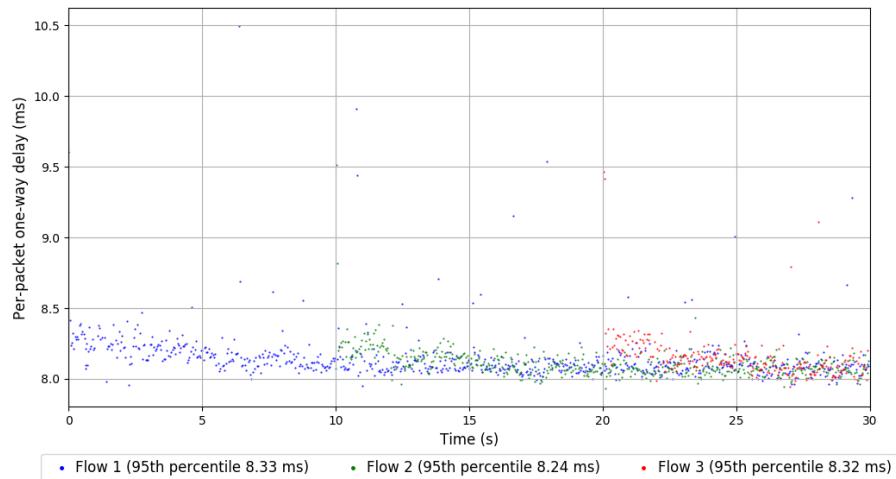
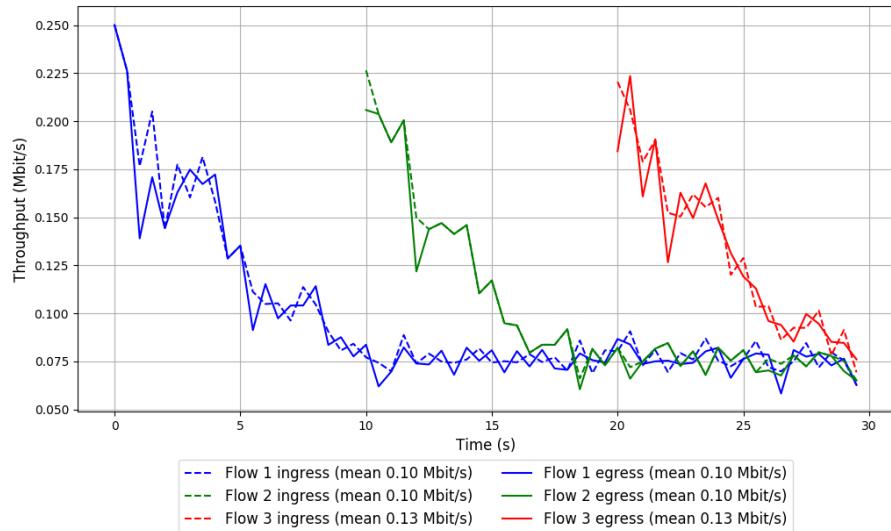


Run 5: Statistics of SCReAM

```
Start at: 2018-04-24 22:02:36
End at: 2018-04-24 22:03:06
Local clock offset: -0.565 ms
Remote clock offset: -2.298 ms

# Below is generated by plot.py at 2018-04-25 00:17:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 8.301 ms
Loss rate: 2.09%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 8.332 ms
Loss rate: 2.31%
-- Flow 2:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 8.245 ms
Loss rate: 1.93%
-- Flow 3:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 8.316 ms
Loss rate: 1.88%
```

Run 5: Report of SCReAM — Data Link

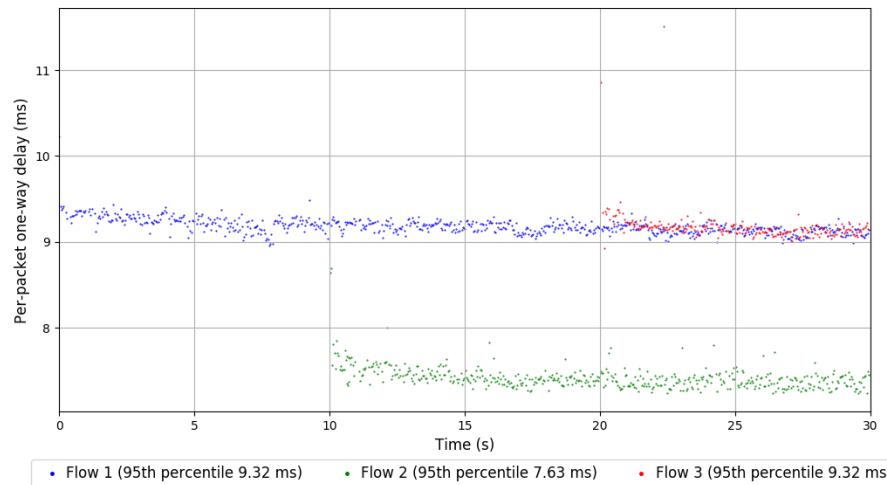
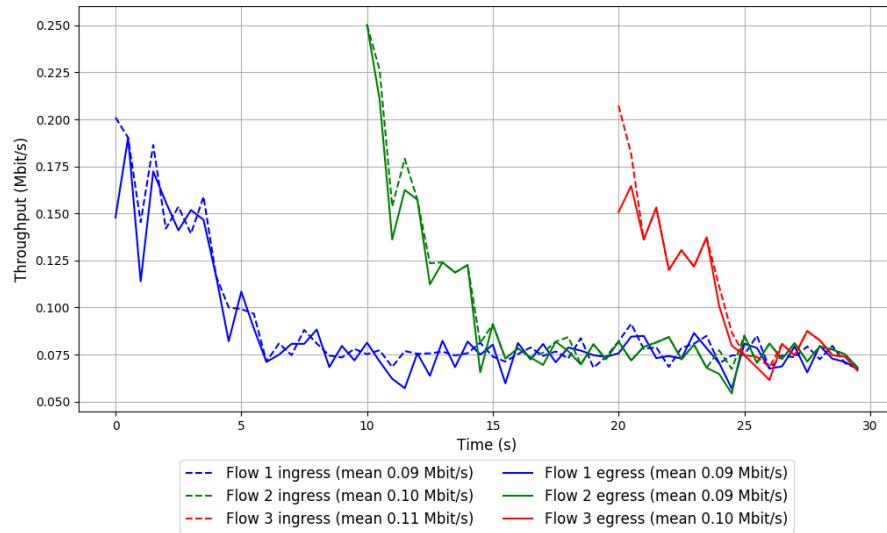


Run 6: Statistics of SCReAM

```
Start at: 2018-04-24 22:22:21
End at: 2018-04-24 22:22:51
Local clock offset: -9.223 ms
Remote clock offset: -6.618 ms

# Below is generated by plot.py at 2018-04-25 00:17:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 9.304 ms
Loss rate: 3.70%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 9.325 ms
Loss rate: 3.73%
-- Flow 2:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 7.633 ms
Loss rate: 3.03%
-- Flow 3:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 9.321 ms
Loss rate: 4.85%
```

Run 6: Report of SCReAM — Data Link

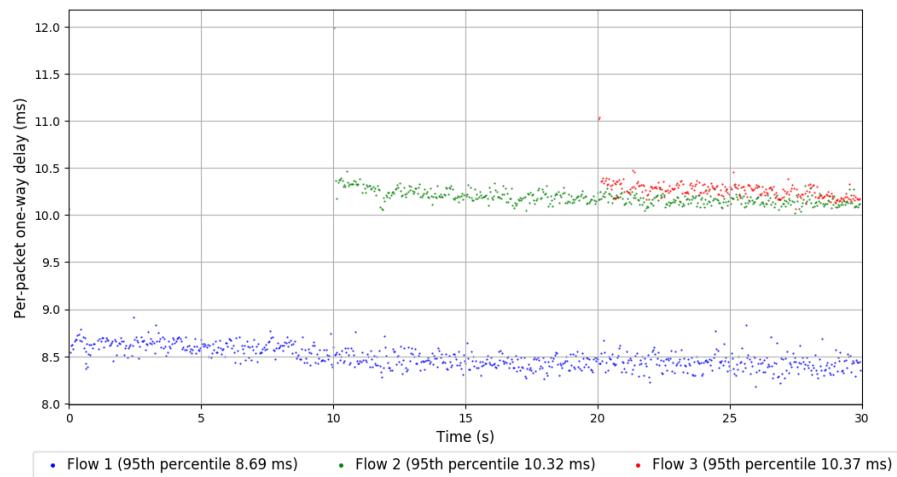
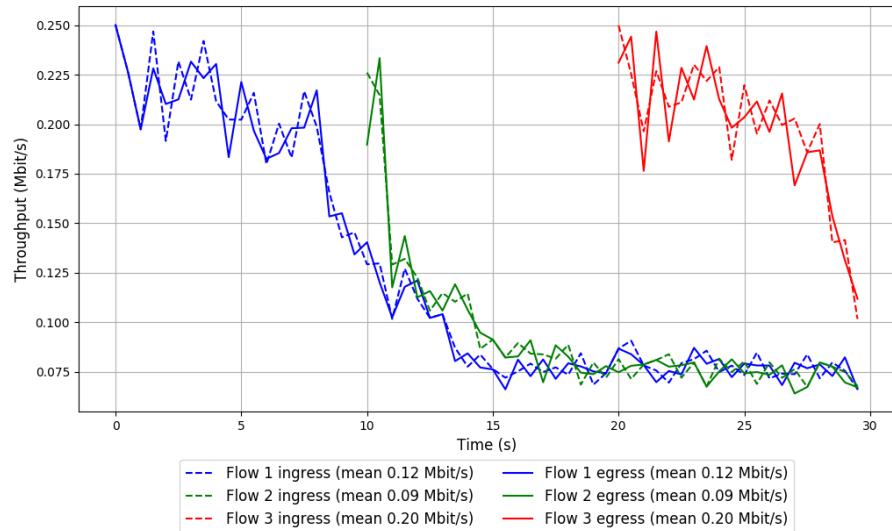


Run 7: Statistics of SCReAM

```
Start at: 2018-04-24 22:42:11
End at: 2018-04-24 22:42:41
Local clock offset: -13.72 ms
Remote clock offset: -6.529 ms

# Below is generated by plot.py at 2018-04-25 00:17:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 10.322 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 8.686 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 10.321 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 10.368 ms
Loss rate: 0.85%
```

Run 7: Report of SCReAM — Data Link

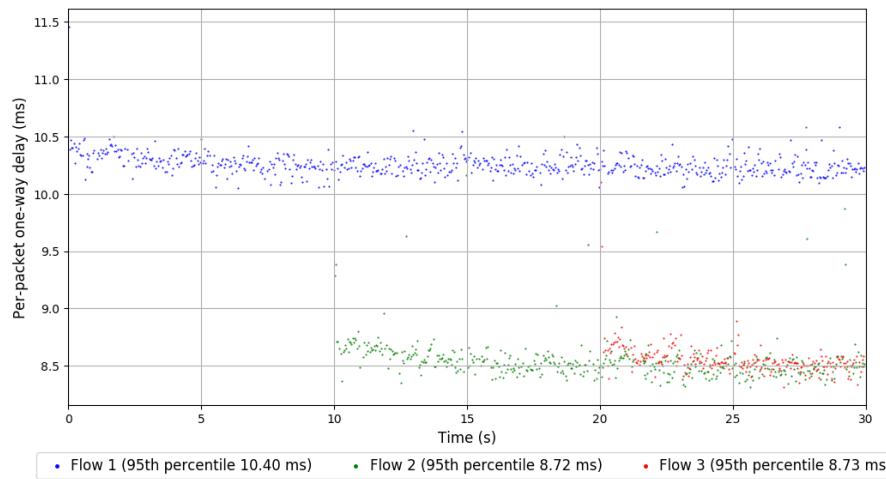
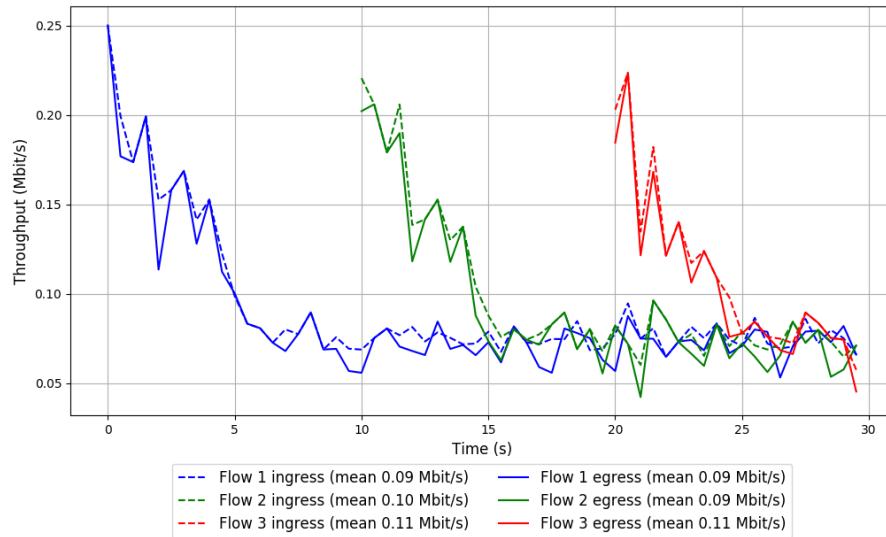


Run 8: Statistics of SCReAM

```
Start at: 2018-04-24 23:02:04
End at: 2018-04-24 23:02:34
Local clock offset: -16.598 ms
Remote clock offset: -6.592 ms

# Below is generated by plot.py at 2018-04-25 00:17:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 10.365 ms
Loss rate: 5.22%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 10.396 ms
Loss rate: 5.01%
-- Flow 2:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 8.720 ms
Loss rate: 5.85%
-- Flow 3:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 8.733 ms
Loss rate: 4.65%
```

Run 8: Report of SCReAM — Data Link

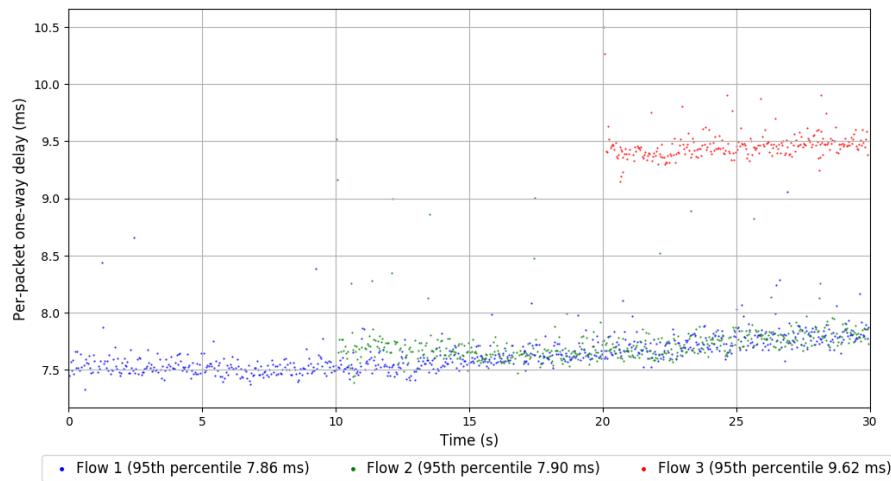
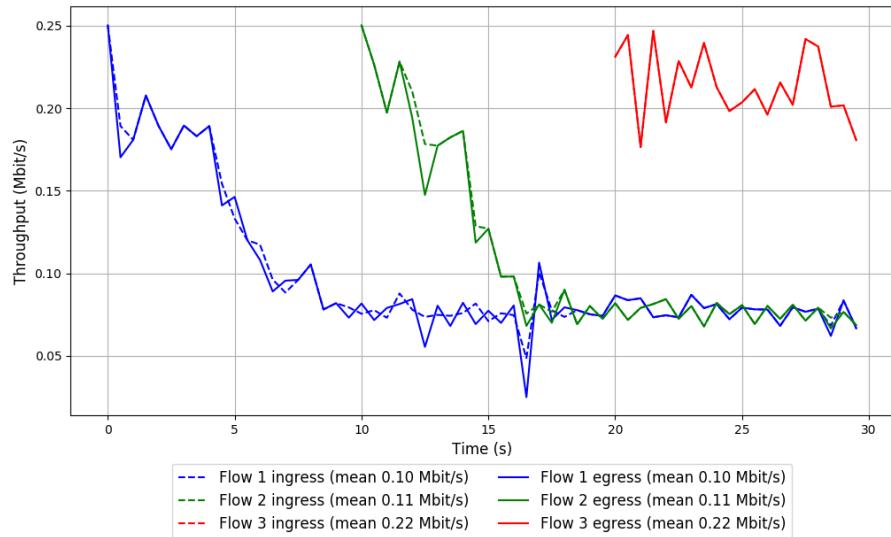


Run 9: Statistics of SCReAM

```
Start at: 2018-04-24 23:22:12
End at: 2018-04-24 23:22:42
Local clock offset: -10.235 ms
Remote clock offset: -7.891 ms

# Below is generated by plot.py at 2018-04-25 00:17:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 9.482 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 7.857 ms
Loss rate: 1.18%
-- Flow 2:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 7.896 ms
Loss rate: 1.77%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 9.619 ms
Loss rate: 0.00%
```

Run 9: Report of SCReAM — Data Link

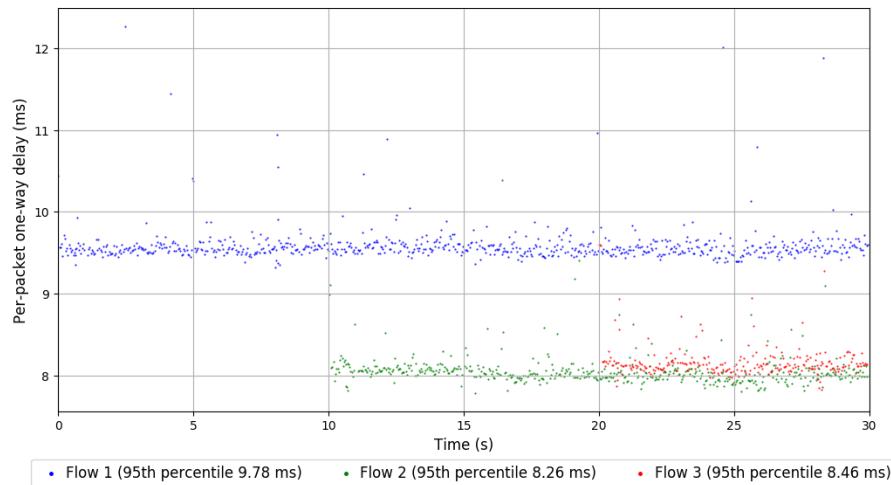
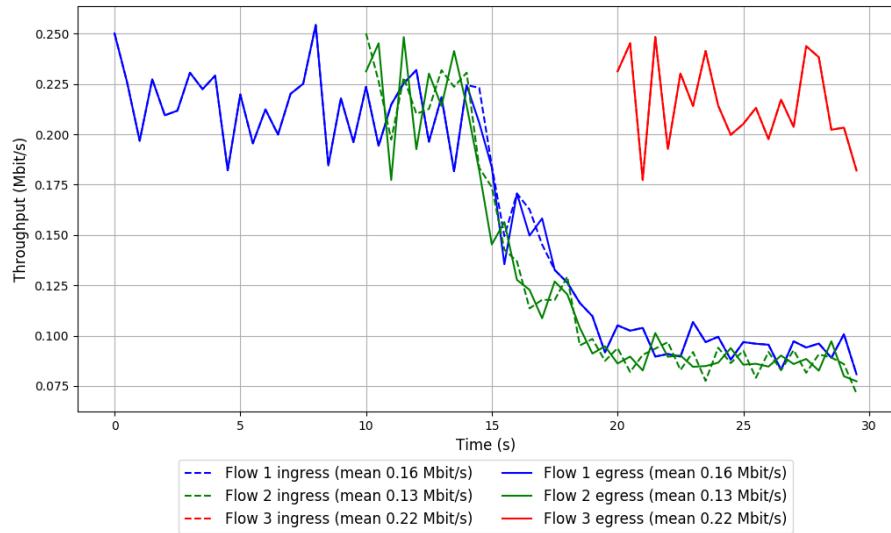


Run 10: Statistics of SCReAM

```
Start at: 2018-04-24 23:41:49
End at: 2018-04-24 23:42:19
Local clock offset: -1.882 ms
Remote clock offset: -7.071 ms

# Below is generated by plot.py at 2018-04-25 00:17:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 9.687 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 9.780 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 8.264 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 8.456 ms
Loss rate: 0.00%
```

Run 10: Report of SCReAM — Data Link

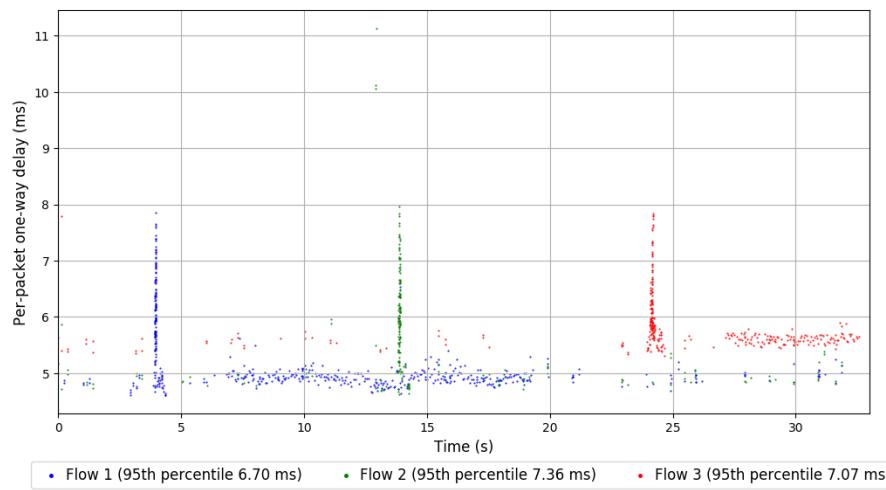
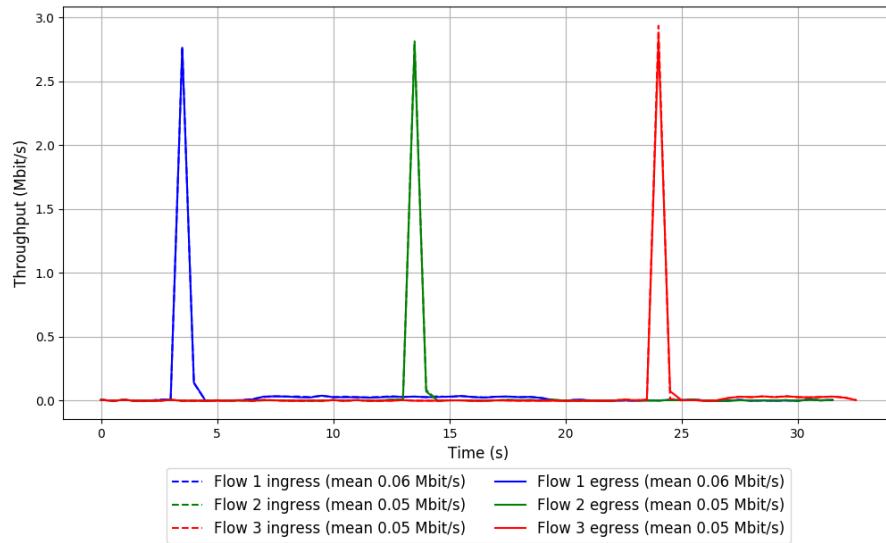


```
Run 1: Statistics of WebRTC media

Start at: 2018-04-24 20:39:41
End at: 2018-04-24 20:40:11
Local clock offset: 2.774 ms
Remote clock offset: -10.437 ms

# Below is generated by plot.py at 2018-04-25 00:17:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 7.027 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 6.703 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 7.362 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 7.074 ms
Loss rate: 1.60%
```

Run 1: Report of WebRTC media — Data Link

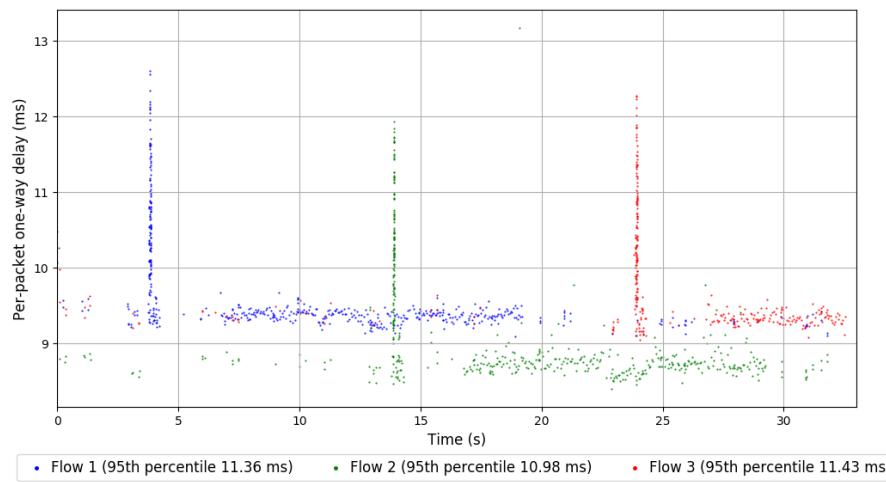
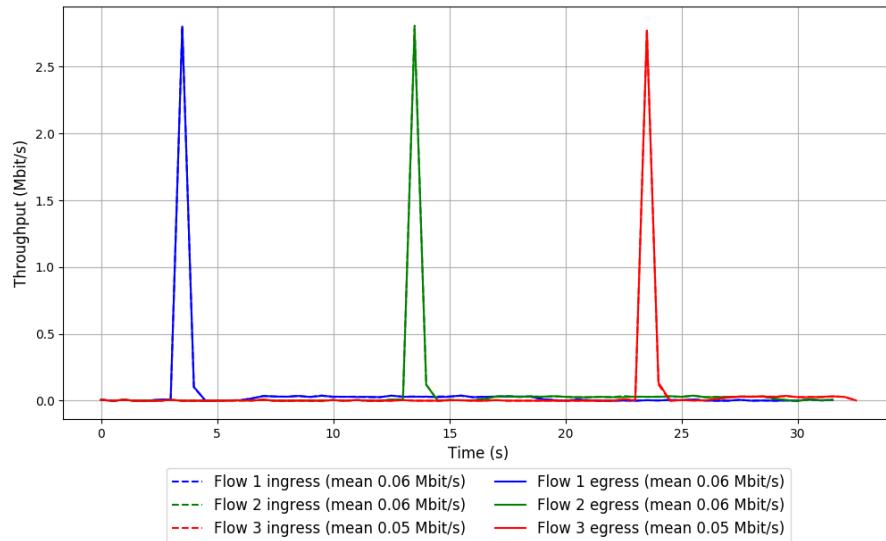


Run 2: Statistics of WebRTC media

```
Start at: 2018-04-24 20:59:24
End at: 2018-04-24 20:59:54
Local clock offset: 0.546 ms
Remote clock offset: -11.105 ms

# Below is generated by plot.py at 2018-04-25 00:17:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 11.270 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 11.357 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 10.982 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 11.433 ms
Loss rate: 0.13%
```

Run 2: Report of WebRTC media — Data Link

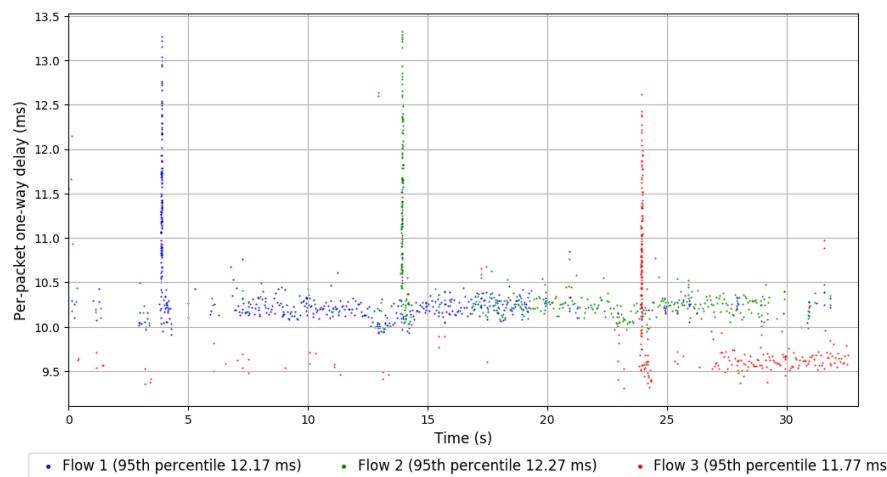
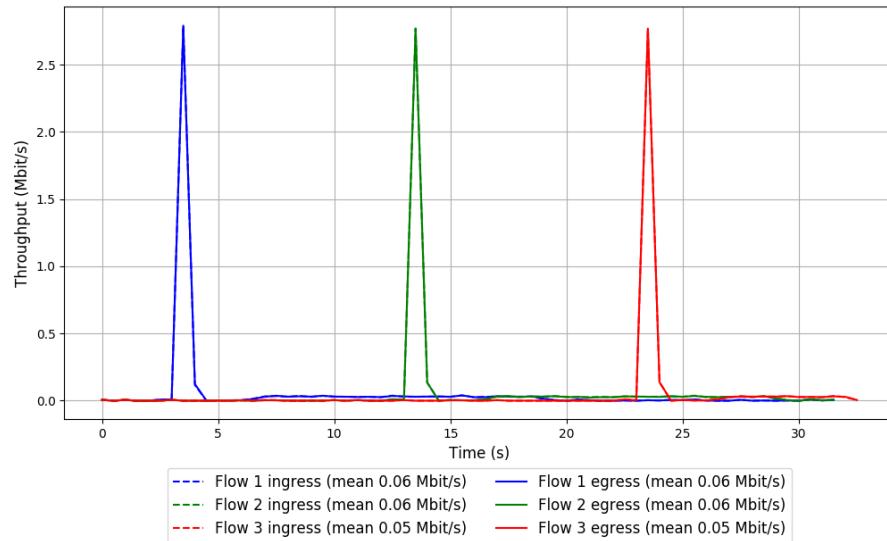


Run 3: Statistics of WebRTC media

```
Start at: 2018-04-24 21:18:57
End at: 2018-04-24 21:19:27
Local clock offset: -0.652 ms
Remote clock offset: -10.31 ms

# Below is generated by plot.py at 2018-04-25 00:17:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 12.046 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 12.170 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 12.267 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 11.773 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

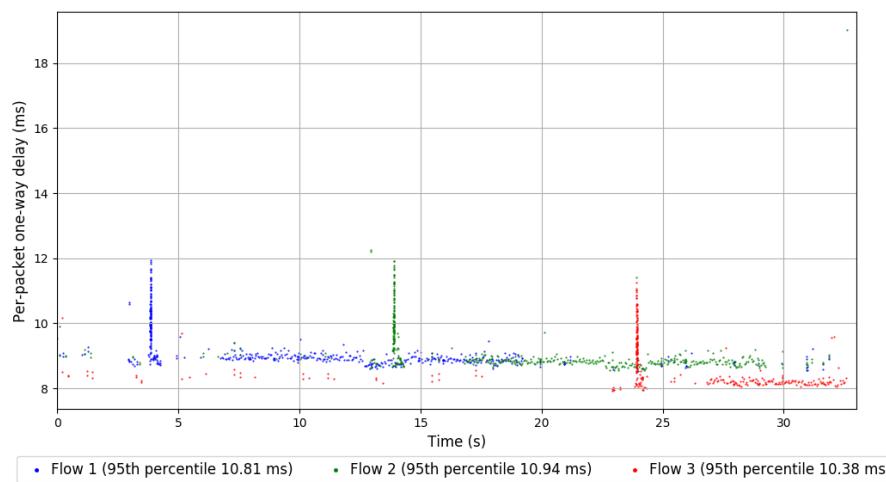
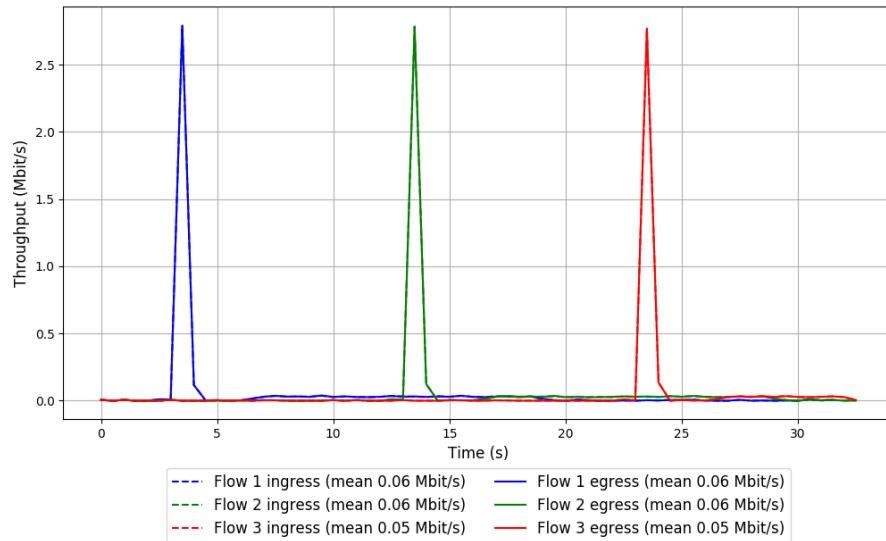


Run 4: Statistics of WebRTC media

```
Start at: 2018-04-24 21:38:23
End at: 2018-04-24 21:38:53
Local clock offset: -0.758 ms
Remote clock offset: -7.481 ms

# Below is generated by plot.py at 2018-04-25 00:17:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 10.728 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 10.808 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 10.938 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 10.380 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link

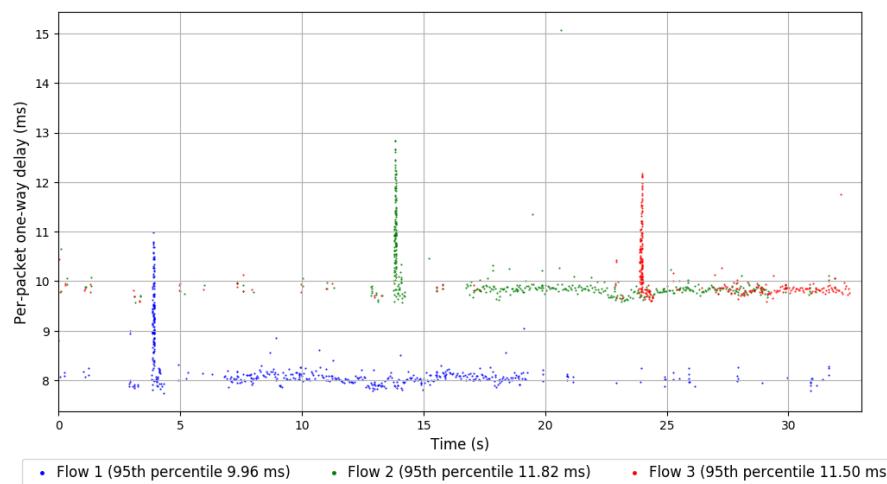
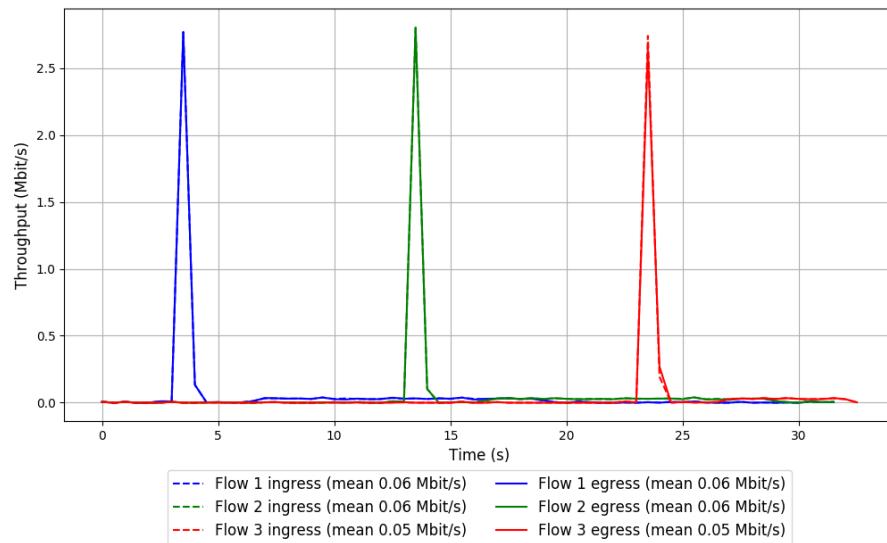


Run 5: Statistics of WebRTC media

```
Start at: 2018-04-24 21:58:01
End at: 2018-04-24 21:58:31
Local clock offset: -0.572 ms
Remote clock offset: -2.804 ms

# Below is generated by plot.py at 2018-04-25 00:17:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 11.249 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 9.955 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 11.824 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 11.502 ms
Loss rate: 1.06%
```

Run 5: Report of WebRTC media — Data Link

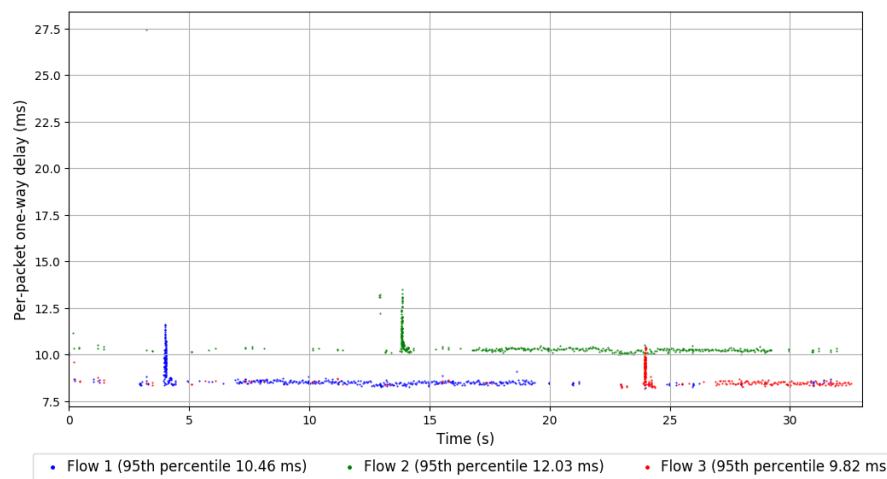
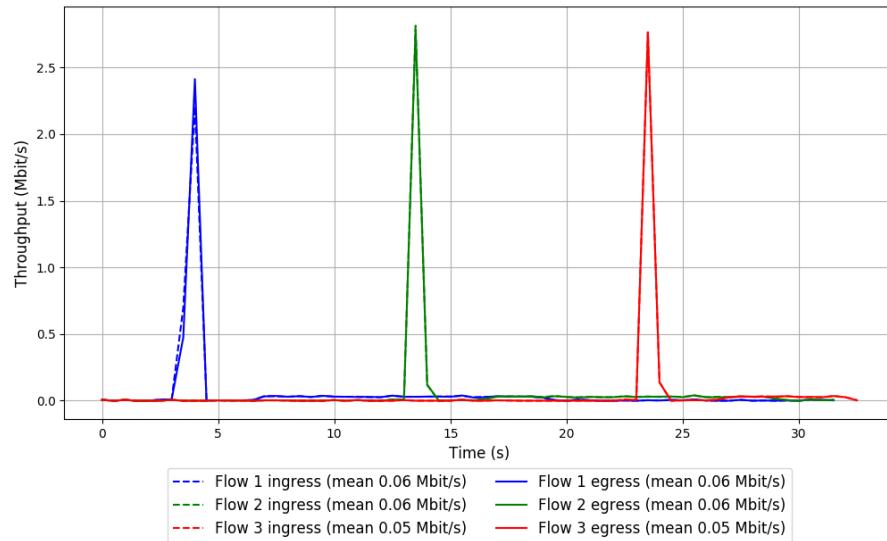


Run 6: Statistics of WebRTC media

```
Start at: 2018-04-24 22:17:41
End at: 2018-04-24 22:18:11
Local clock offset: -8.474 ms
Remote clock offset: -5.899 ms

# Below is generated by plot.py at 2018-04-25 00:17:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 11.178 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 10.462 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 12.026 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 9.825 ms
Loss rate: 0.08%
```

Run 6: Report of WebRTC media — Data Link

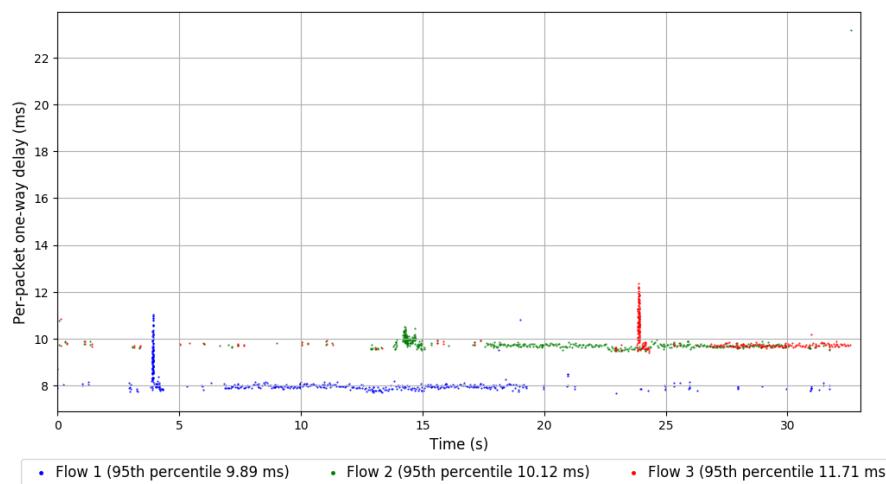
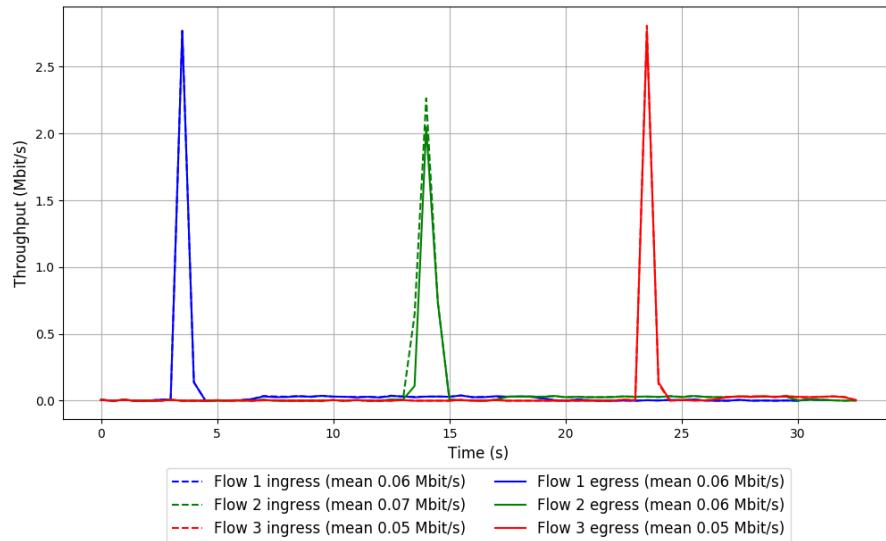


Run 7: Statistics of WebRTC media

```
Start at: 2018-04-24 22:37:33
End at: 2018-04-24 22:38:03
Local clock offset: -12.815 ms
Remote clock offset: -6.767 ms

# Below is generated by plot.py at 2018-04-25 00:17:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 10.795 ms
Loss rate: 6.93%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 9.890 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 10.122 ms
Loss rate: 16.82%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 11.712 ms
Loss rate: 0.76%
```

Run 7: Report of WebRTC media — Data Link

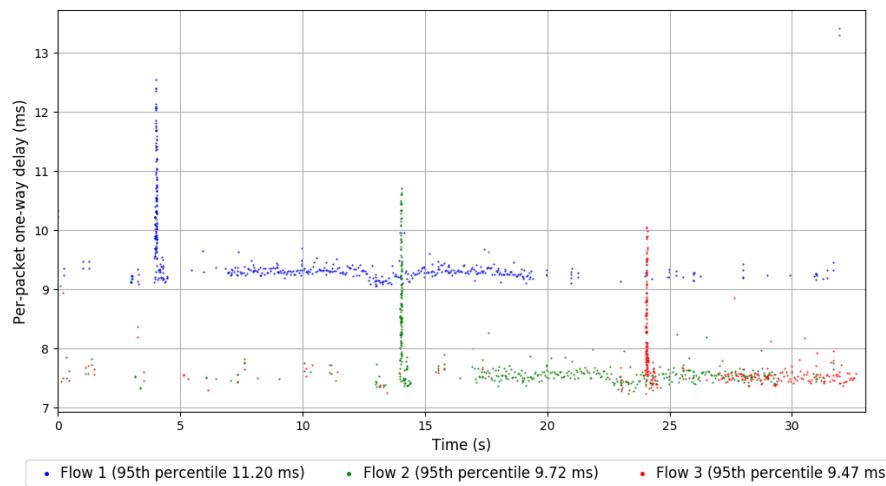
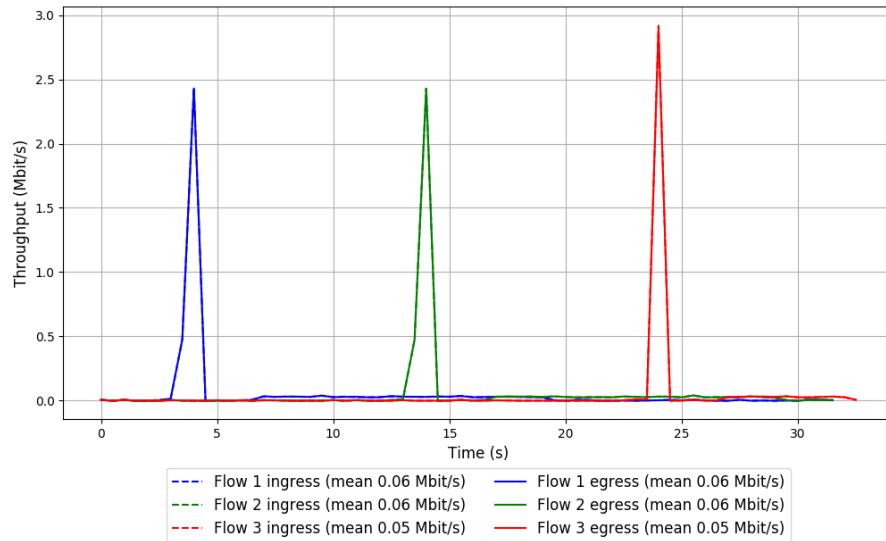


Run 8: Statistics of WebRTC media

```
Start at: 2018-04-24 22:57:23
End at: 2018-04-24 22:57:53
Local clock offset: -15.812 ms
Remote clock offset: -7.388 ms

# Below is generated by plot.py at 2018-04-25 00:17:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 10.408 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 11.202 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 9.720 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 9.473 ms
Loss rate: 0.72%
```

Run 8: Report of WebRTC media — Data Link

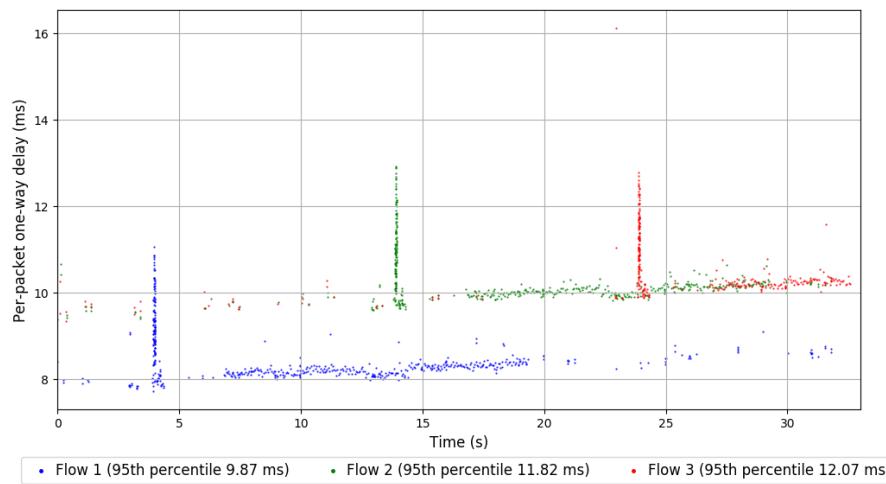
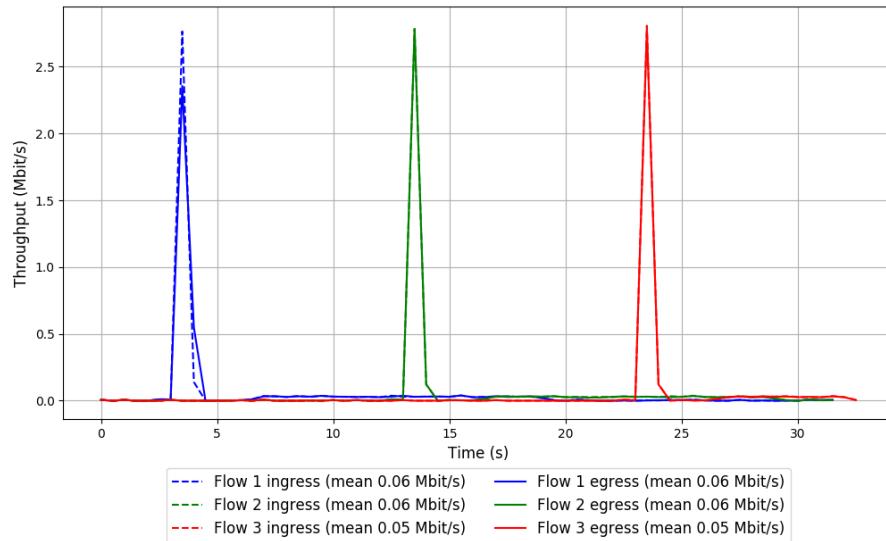


Run 9: Statistics of WebRTC media

```
Start at: 2018-04-24 23:17:28
End at: 2018-04-24 23:17:58
Local clock offset: -15.83 ms
Remote clock offset: -7.532 ms

# Below is generated by plot.py at 2018-04-25 00:17:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 11.633 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 9.874 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 11.819 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 12.070 ms
Loss rate: 1.03%
```

Run 9: Report of WebRTC media — Data Link

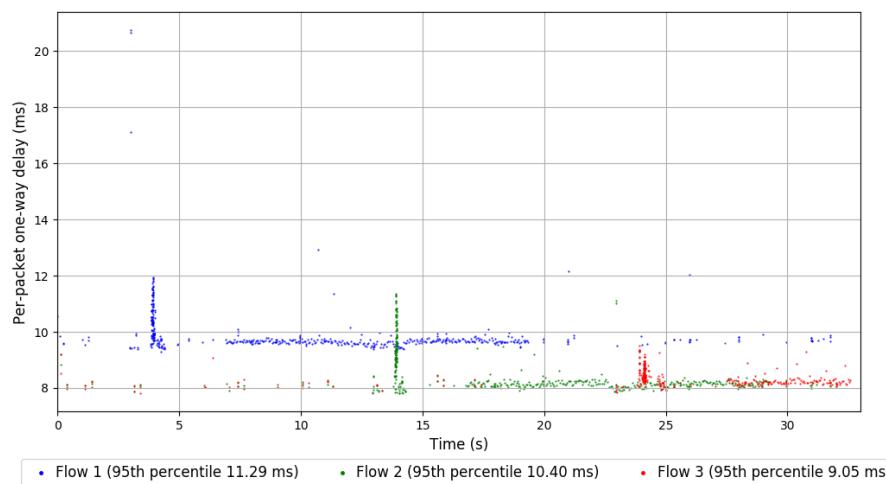
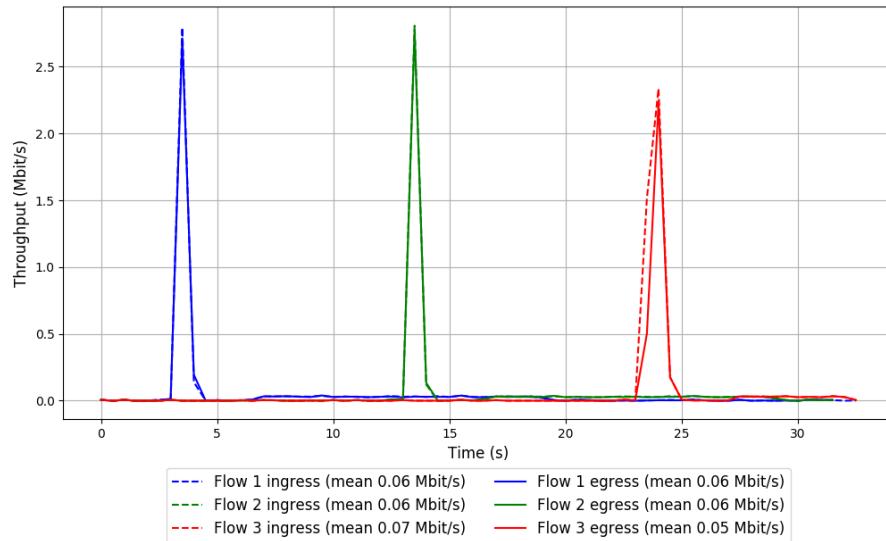


```
Run 10: Statistics of WebRTC media
```

```
Start at: 2018-04-24 23:37:12
End at: 2018-04-24 23:37:42
Local clock offset: -3.692 ms
Remote clock offset: -7.731 ms

# Below is generated by plot.py at 2018-04-25 00:17:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 10.716 ms
Loss rate: 10.16%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 11.290 ms
Loss rate: 1.33%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 10.396 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 9.052 ms
Loss rate: 25.53%
```

Run 10: Report of WebRTC media — Data Link

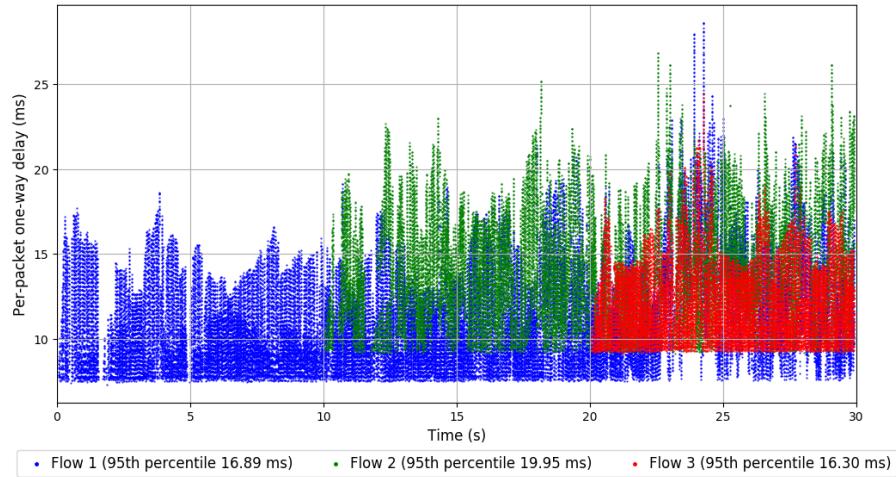
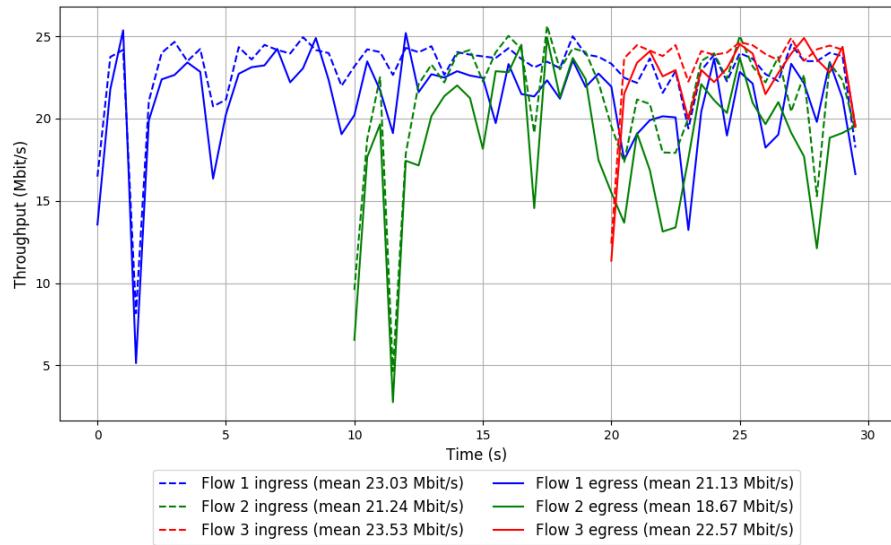


Run 1: Statistics of Sprout

```
Start at: 2018-04-24 20:32:53
End at: 2018-04-24 20:33:23
Local clock offset: -1.086 ms
Remote clock offset: -10.212 ms

# Below is generated by plot.py at 2018-04-25 00:18:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.01 Mbit/s
95th percentile per-packet one-way delay: 18.431 ms
Loss rate: 8.69%
-- Flow 1:
Average throughput: 21.13 Mbit/s
95th percentile per-packet one-way delay: 16.893 ms
Loss rate: 8.21%
-- Flow 2:
Average throughput: 18.67 Mbit/s
95th percentile per-packet one-way delay: 19.949 ms
Loss rate: 12.04%
-- Flow 3:
Average throughput: 22.57 Mbit/s
95th percentile per-packet one-way delay: 16.298 ms
Loss rate: 4.02%
```

Run 1: Report of Sprout — Data Link

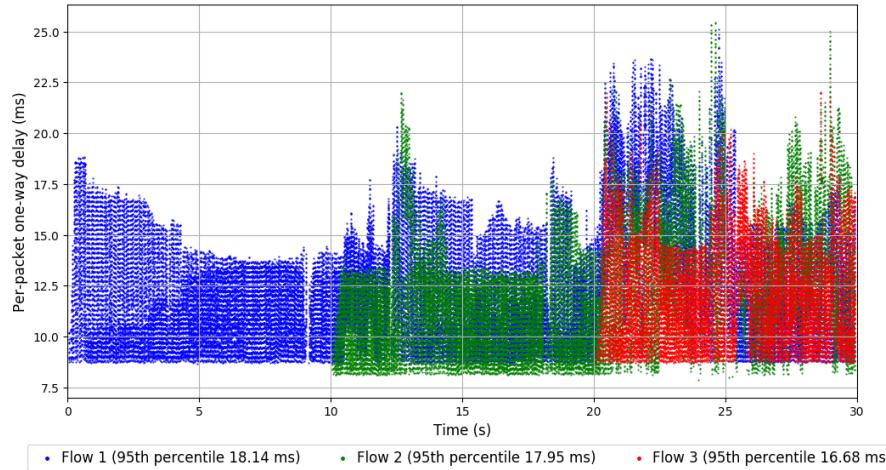
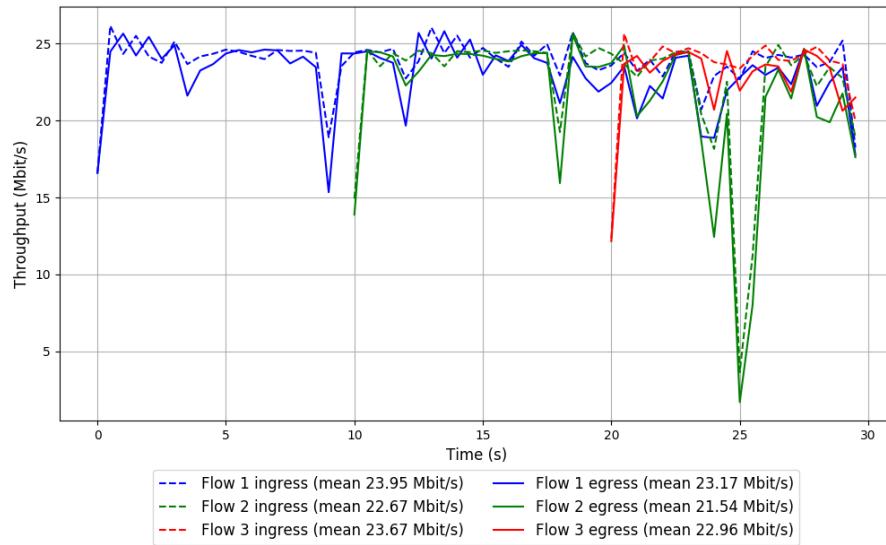


Run 2: Statistics of Sprout

```
Start at: 2018-04-24 20:52:30
End at: 2018-04-24 20:53:00
Local clock offset: 1.091 ms
Remote clock offset: -10.819 ms

# Below is generated by plot.py at 2018-04-25 00:18:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 45.06 Mbit/s
95th percentile per-packet one-way delay: 17.828 ms
Loss rate: 3.76%
-- Flow 1:
Average throughput: 23.17 Mbit/s
95th percentile per-packet one-way delay: 18.142 ms
Loss rate: 3.26%
-- Flow 2:
Average throughput: 21.54 Mbit/s
95th percentile per-packet one-way delay: 17.950 ms
Loss rate: 4.96%
-- Flow 3:
Average throughput: 22.96 Mbit/s
95th percentile per-packet one-way delay: 16.685 ms
Loss rate: 3.01%
```

Run 2: Report of Sprout — Data Link

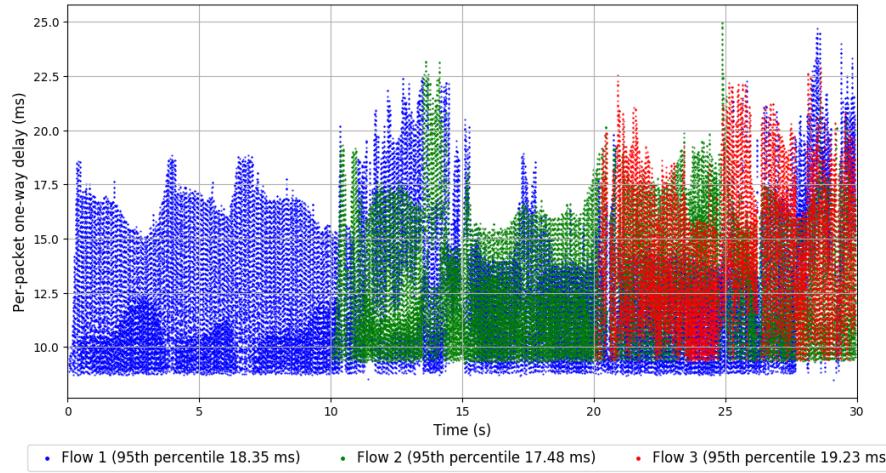
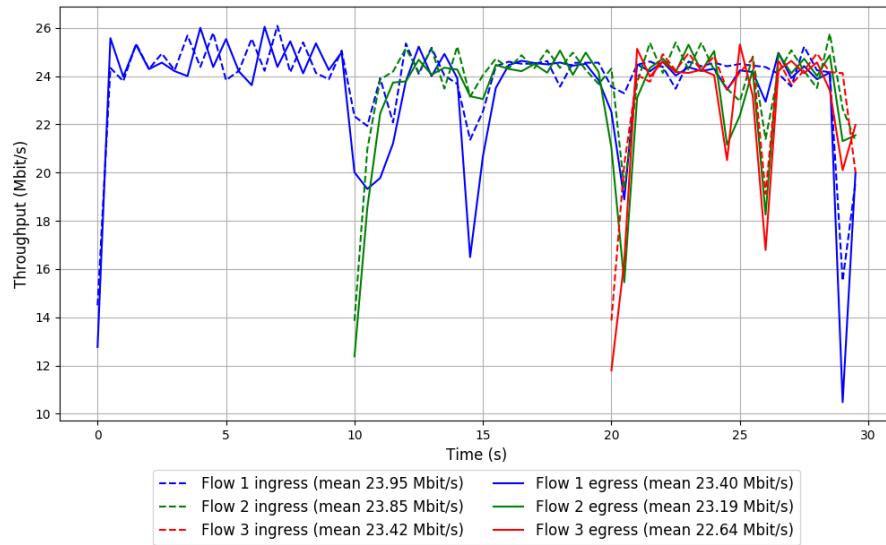


Run 3: Statistics of Sprout

```
Start at: 2018-04-24 21:12:08
End at: 2018-04-24 21:12:38
Local clock offset: 0.294 ms
Remote clock offset: -10.185 ms

# Below is generated by plot.py at 2018-04-25 00:18:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 46.30 Mbit/s
95th percentile per-packet one-way delay: 18.324 ms
Loss rate: 2.58%
-- Flow 1:
Average throughput: 23.40 Mbit/s
95th percentile per-packet one-way delay: 18.349 ms
Loss rate: 2.25%
-- Flow 2:
Average throughput: 23.19 Mbit/s
95th percentile per-packet one-way delay: 17.480 ms
Loss rate: 2.74%
-- Flow 3:
Average throughput: 22.64 Mbit/s
95th percentile per-packet one-way delay: 19.226 ms
Loss rate: 3.27%
```

Run 3: Report of Sprout — Data Link

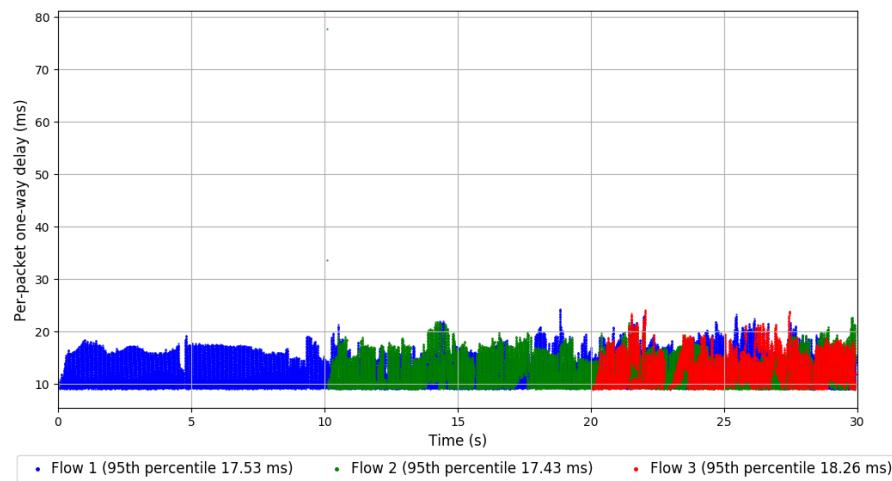
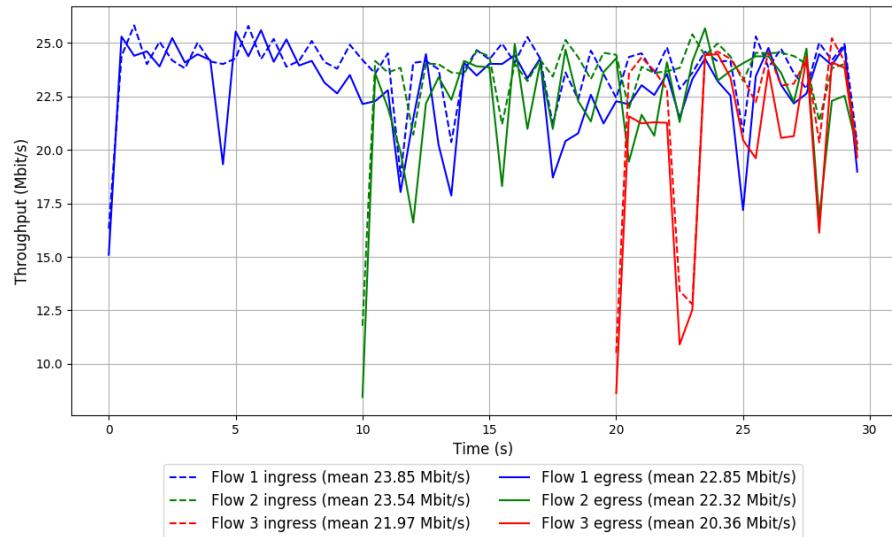


Run 4: Statistics of Sprout

```
Start at: 2018-04-24 21:31:37
End at: 2018-04-24 21:32:07
Local clock offset: 0.377 ms
Remote clock offset: -10.829 ms

# Below is generated by plot.py at 2018-04-25 00:18:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 44.37 Mbit/s
95th percentile per-packet one-way delay: 17.624 ms
Loss rate: 5.11%
-- Flow 1:
Average throughput: 22.85 Mbit/s
95th percentile per-packet one-way delay: 17.532 ms
Loss rate: 4.17%
-- Flow 2:
Average throughput: 22.32 Mbit/s
95th percentile per-packet one-way delay: 17.430 ms
Loss rate: 5.53%
-- Flow 3:
Average throughput: 20.36 Mbit/s
95th percentile per-packet one-way delay: 18.256 ms
Loss rate: 7.33%
```

Run 4: Report of Sprout — Data Link

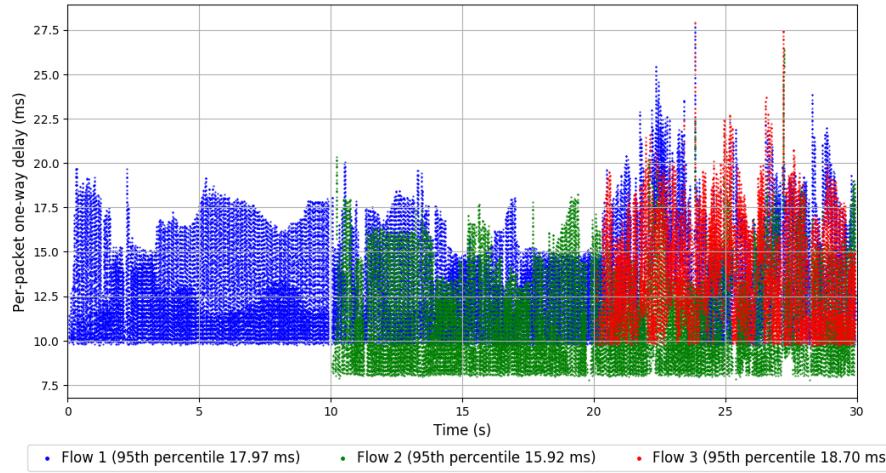
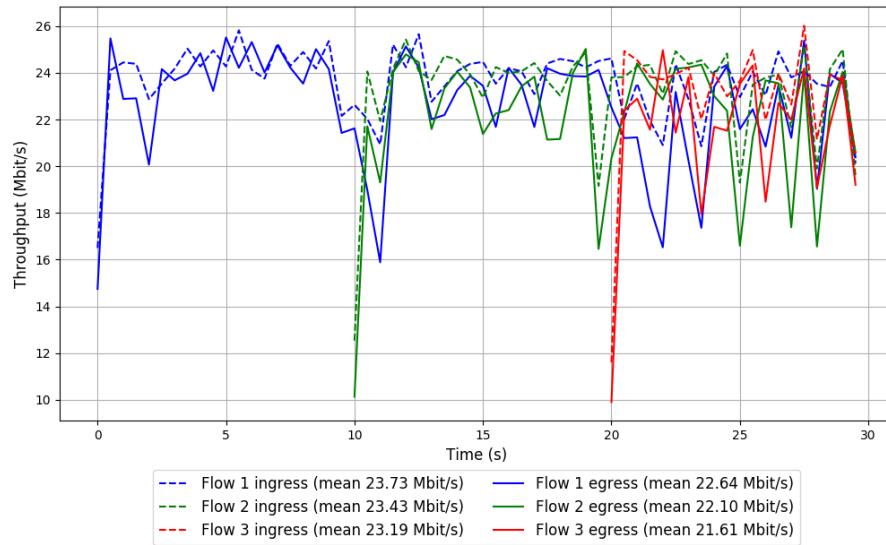


Run 5: Statistics of Sprout

```
Start at: 2018-04-24 21:51:10
End at: 2018-04-24 21:51:40
Local clock offset: -0.66 ms
Remote clock offset: -3.821 ms

# Below is generated by plot.py at 2018-04-25 00:18:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 44.49 Mbit/s
95th percentile per-packet one-way delay: 17.723 ms
Loss rate: 5.27%
-- Flow 1:
Average throughput: 22.64 Mbit/s
95th percentile per-packet one-way delay: 17.970 ms
Loss rate: 4.57%
-- Flow 2:
Average throughput: 22.10 Mbit/s
95th percentile per-packet one-way delay: 15.916 ms
Loss rate: 5.61%
-- Flow 3:
Average throughput: 21.61 Mbit/s
95th percentile per-packet one-way delay: 18.703 ms
Loss rate: 6.78%
```

Run 5: Report of Sprout — Data Link

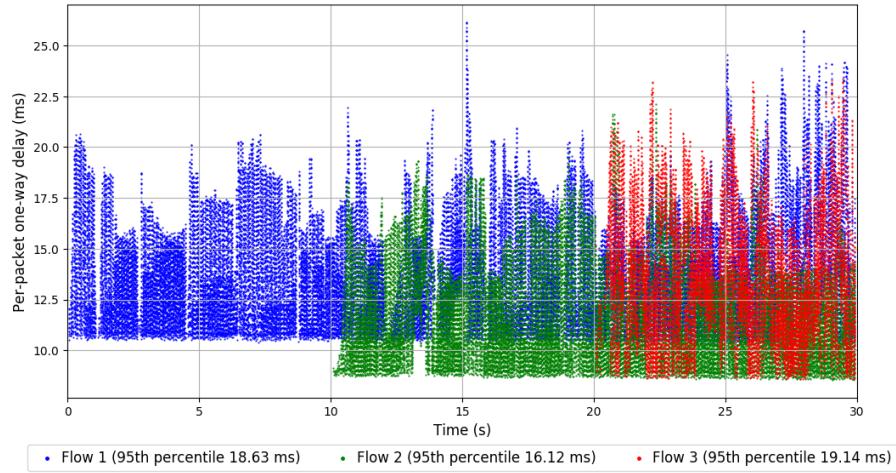
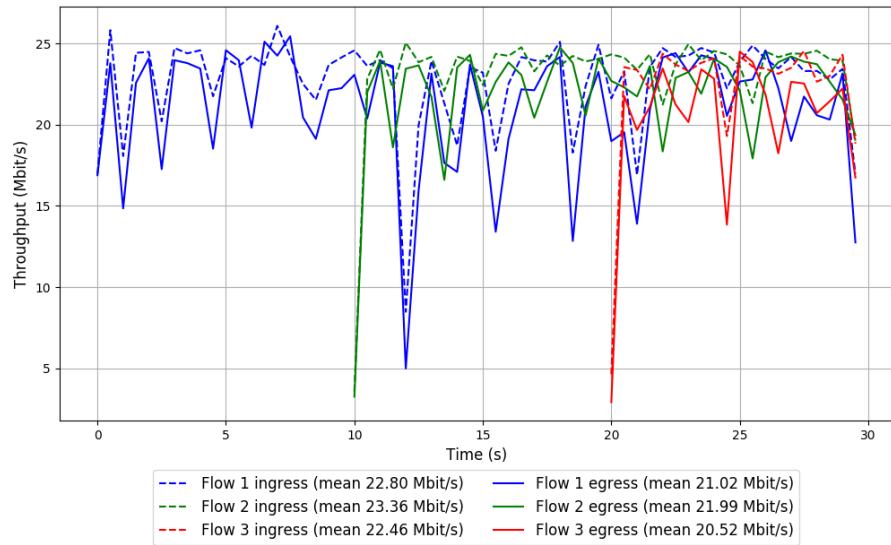


Run 6: Statistics of Sprout

```
Start at: 2018-04-24 22:10:47
End at: 2018-04-24 22:11:17
Local clock offset: -3.343 ms
Remote clock offset: -2.99 ms

# Below is generated by plot.py at 2018-04-25 00:18:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.41 Mbit/s
95th percentile per-packet one-way delay: 18.206 ms
Loss rate: 7.27%
-- Flow 1:
Average throughput: 21.02 Mbit/s
95th percentile per-packet one-way delay: 18.628 ms
Loss rate: 7.78%
-- Flow 2:
Average throughput: 21.99 Mbit/s
95th percentile per-packet one-way delay: 16.121 ms
Loss rate: 5.85%
-- Flow 3:
Average throughput: 20.52 Mbit/s
95th percentile per-packet one-way delay: 19.139 ms
Loss rate: 8.66%
```

Run 6: Report of Sprout — Data Link

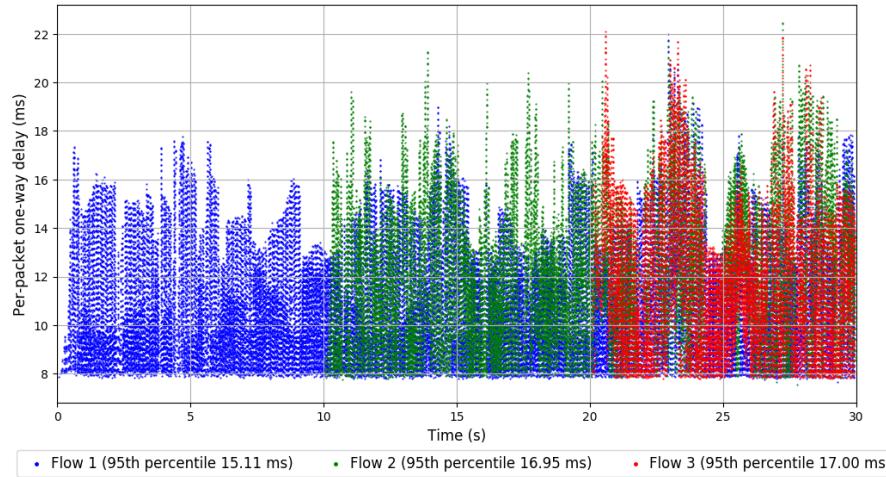
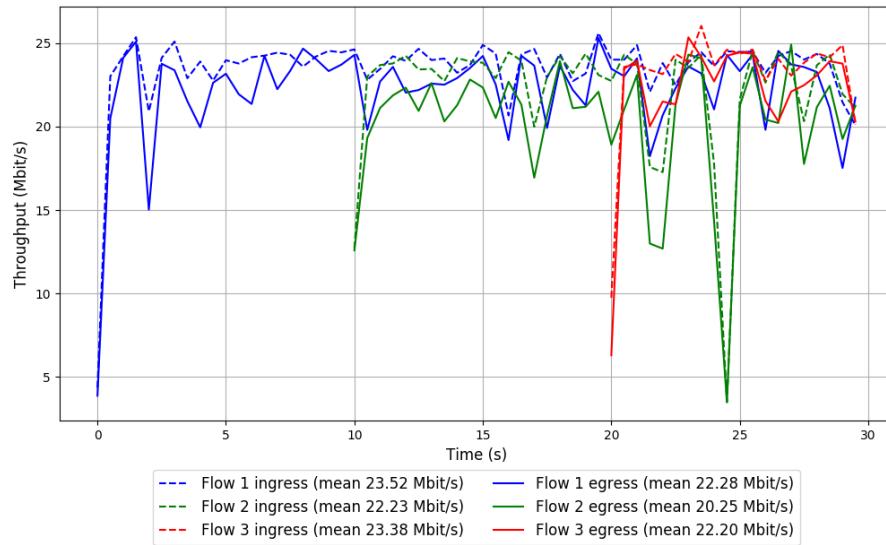


Run 7: Statistics of Sprout

```
Start at: 2018-04-24 22:30:42
End at: 2018-04-24 22:31:12
Local clock offset: -10.873 ms
Remote clock offset: -6.154 ms

# Below is generated by plot.py at 2018-04-25 00:18:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 43.12 Mbit/s
95th percentile per-packet one-way delay: 16.127 ms
Loss rate: 6.45%
-- Flow 1:
Average throughput: 22.28 Mbit/s
95th percentile per-packet one-way delay: 15.105 ms
Loss rate: 5.41%
-- Flow 2:
Average throughput: 20.25 Mbit/s
95th percentile per-packet one-way delay: 16.947 ms
Loss rate: 8.88%
-- Flow 3:
Average throughput: 22.20 Mbit/s
95th percentile per-packet one-way delay: 17.001 ms
Loss rate: 4.98%
```

Run 7: Report of Sprout — Data Link

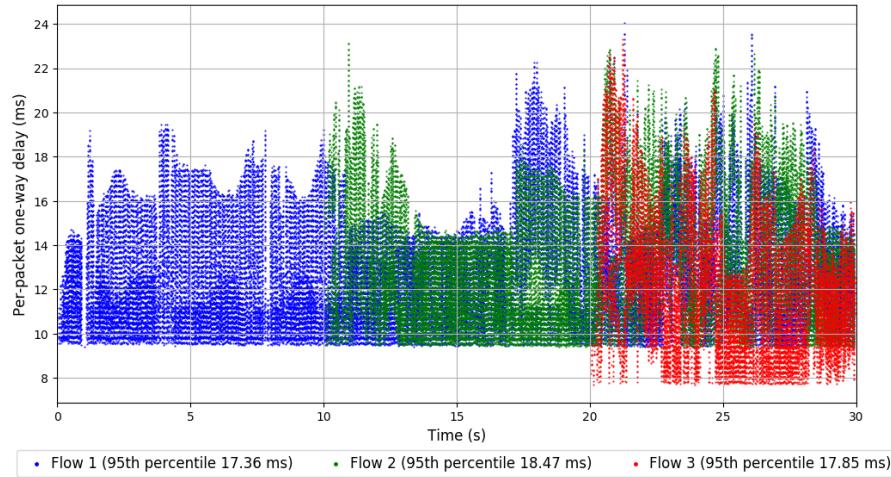
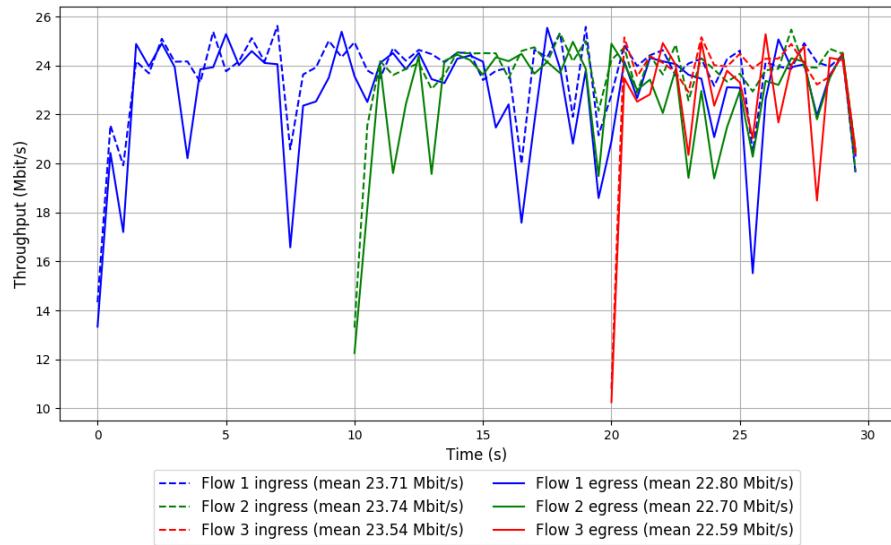


Run 8: Statistics of Sprout

```
Start at: 2018-04-24 22:50:29
End at: 2018-04-24 22:50:59
Local clock offset: -14.924 ms
Remote clock offset: -7.269 ms

# Below is generated by plot.py at 2018-04-25 00:18:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 45.36 Mbit/s
95th percentile per-packet one-way delay: 17.862 ms
Loss rate: 4.03%
-- Flow 1:
Average throughput: 22.80 Mbit/s
95th percentile per-packet one-way delay: 17.358 ms
Loss rate: 3.82%
-- Flow 2:
Average throughput: 22.70 Mbit/s
95th percentile per-packet one-way delay: 18.471 ms
Loss rate: 4.37%
-- Flow 3:
Average throughput: 22.59 Mbit/s
95th percentile per-packet one-way delay: 17.852 ms
Loss rate: 3.96%
```

Run 8: Report of Sprout — Data Link

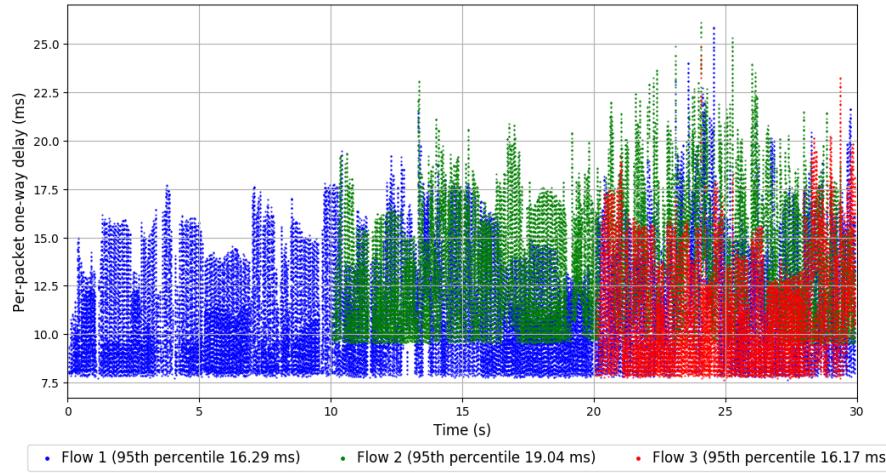
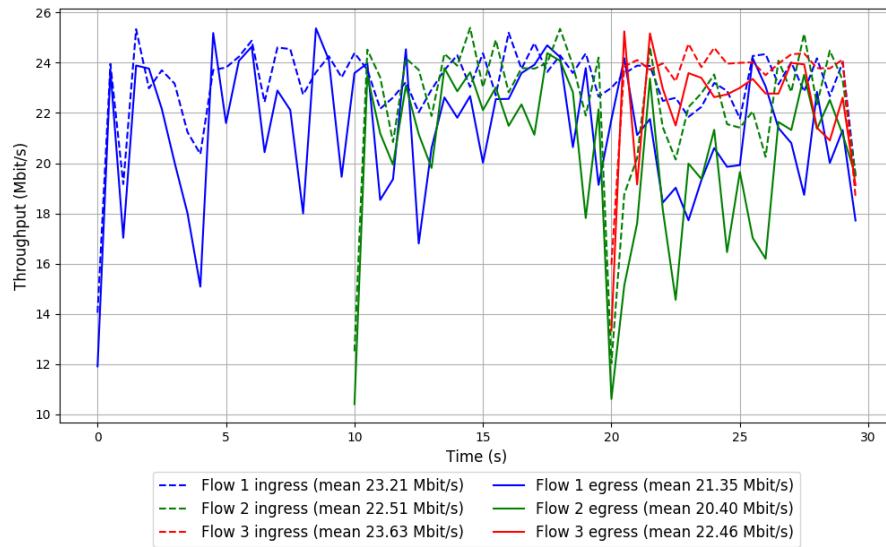


Run 9: Statistics of Sprout

```
Start at: 2018-04-24 23:10:36
End at: 2018-04-24 23:11:06
Local clock offset: -17.542 ms
Remote clock offset: -7.228 ms

# Below is generated by plot.py at 2018-04-25 00:18:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.32 Mbit/s
95th percentile per-packet one-way delay: 17.514 ms
Loss rate: 7.93%
-- Flow 1:
Average throughput: 21.35 Mbit/s
95th percentile per-packet one-way delay: 16.294 ms
Loss rate: 8.01%
-- Flow 2:
Average throughput: 20.40 Mbit/s
95th percentile per-packet one-way delay: 19.037 ms
Loss rate: 9.39%
-- Flow 3:
Average throughput: 22.46 Mbit/s
95th percentile per-packet one-way delay: 16.166 ms
Loss rate: 4.92%
```

Run 9: Report of Sprout — Data Link

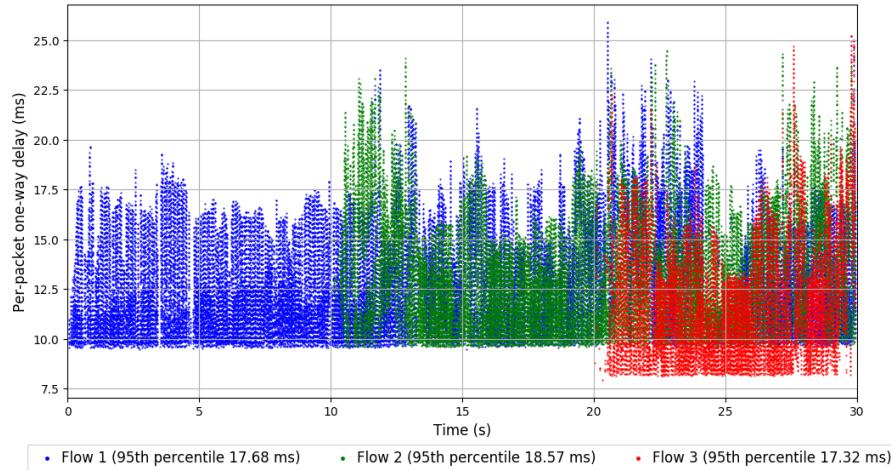
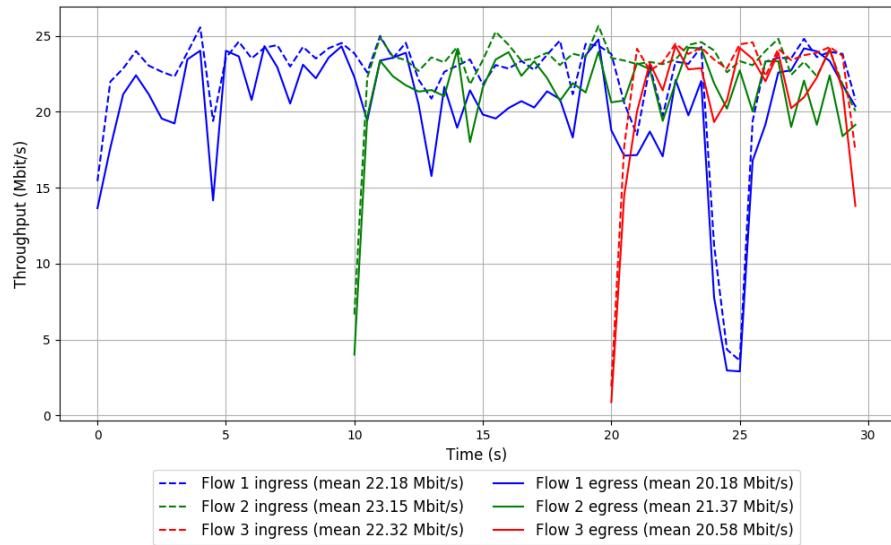


Run 10: Statistics of Sprout

```
Start at: 2018-04-24 23:30:23
End at: 2018-04-24 23:30:53
Local clock offset: -5.947 ms
Remote clock offset: -7.88 ms

# Below is generated by plot.py at 2018-04-25 00:18:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.19 Mbit/s
95th percentile per-packet one-way delay: 17.954 ms
Loss rate: 8.35%
-- Flow 1:
Average throughput: 20.18 Mbit/s
95th percentile per-packet one-way delay: 17.677 ms
Loss rate: 9.02%
-- Flow 2:
Average throughput: 21.37 Mbit/s
95th percentile per-packet one-way delay: 18.573 ms
Loss rate: 7.69%
-- Flow 3:
Average throughput: 20.58 Mbit/s
95th percentile per-packet one-way delay: 17.316 ms
Loss rate: 7.70%
```

Run 10: Report of Sprout — Data Link

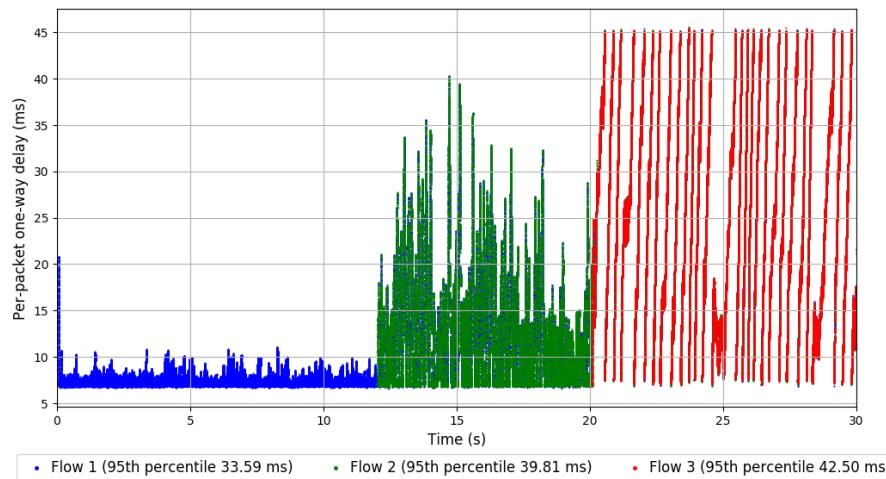
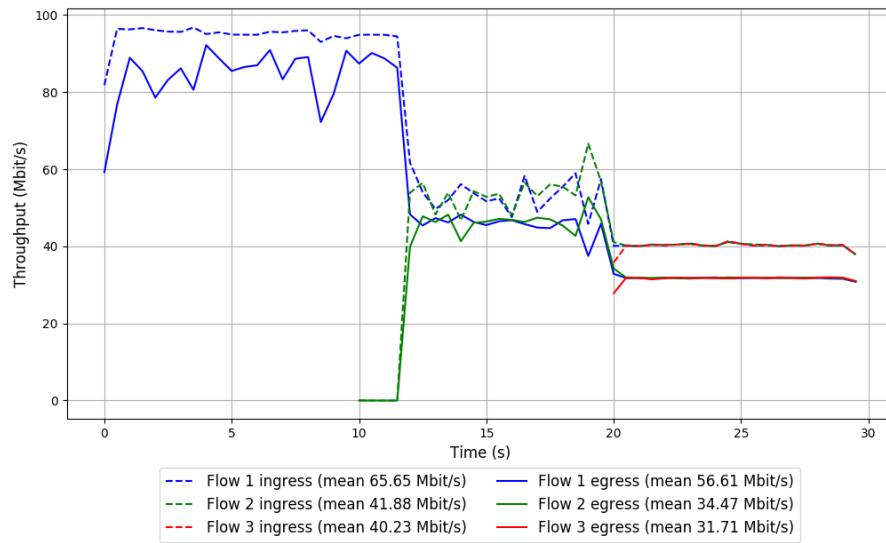


Run 1: Statistics of TaoVA-100x

```
Start at: 2018-04-24 20:42:59
End at: 2018-04-24 20:43:29
Local clock offset: 2.987 ms
Remote clock offset: -9.557 ms

# Below is generated by plot.py at 2018-04-25 00:20:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.09 Mbit/s
95th percentile per-packet one-way delay: 38.161 ms
Loss rate: 15.68%
-- Flow 1:
Average throughput: 56.61 Mbit/s
95th percentile per-packet one-way delay: 33.585 ms
Loss rate: 13.74%
-- Flow 2:
Average throughput: 34.47 Mbit/s
95th percentile per-packet one-way delay: 39.809 ms
Loss rate: 17.65%
-- Flow 3:
Average throughput: 31.71 Mbit/s
95th percentile per-packet one-way delay: 42.497 ms
Loss rate: 21.16%
```

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

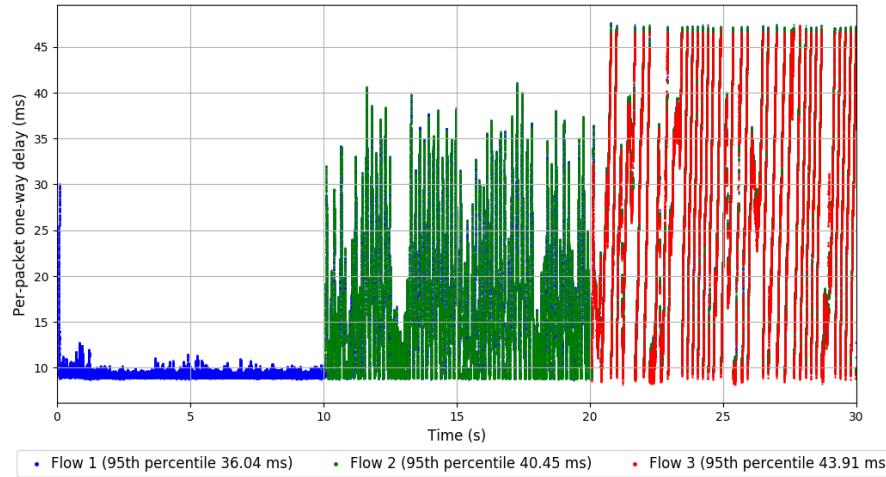
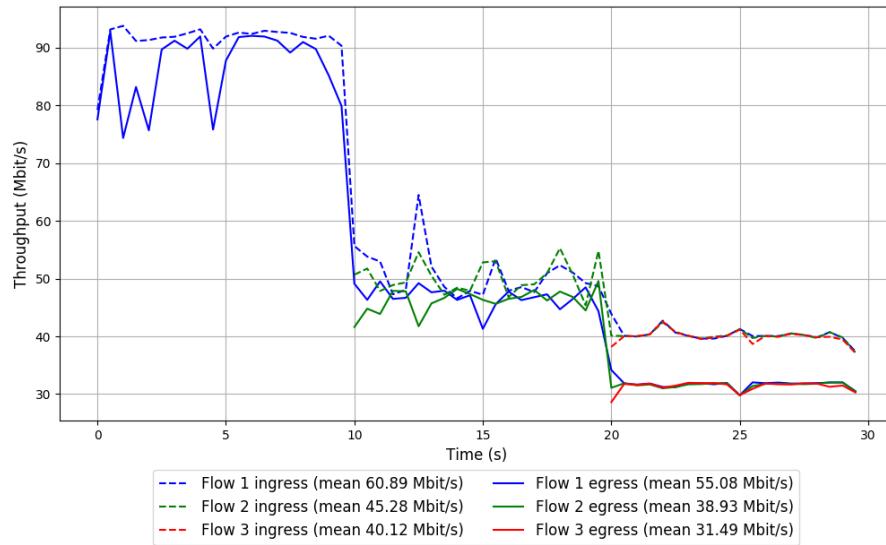


Run 2: Statistics of TaoVA-100x

```
Start at: 2018-04-24 21:02:45
End at: 2018-04-24 21:03:15
Local clock offset: 0.442 ms
Remote clock offset: -11.132 ms

# Below is generated by plot.py at 2018-04-25 00:20:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.45 Mbit/s
95th percentile per-packet one-way delay: 39.331 ms
Loss rate: 12.36%
-- Flow 1:
Average throughput: 55.08 Mbit/s
95th percentile per-packet one-way delay: 36.040 ms
Loss rate: 9.53%
-- Flow 2:
Average throughput: 38.93 Mbit/s
95th percentile per-packet one-way delay: 40.451 ms
Loss rate: 14.02%
-- Flow 3:
Average throughput: 31.49 Mbit/s
95th percentile per-packet one-way delay: 43.911 ms
Loss rate: 21.52%
```

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

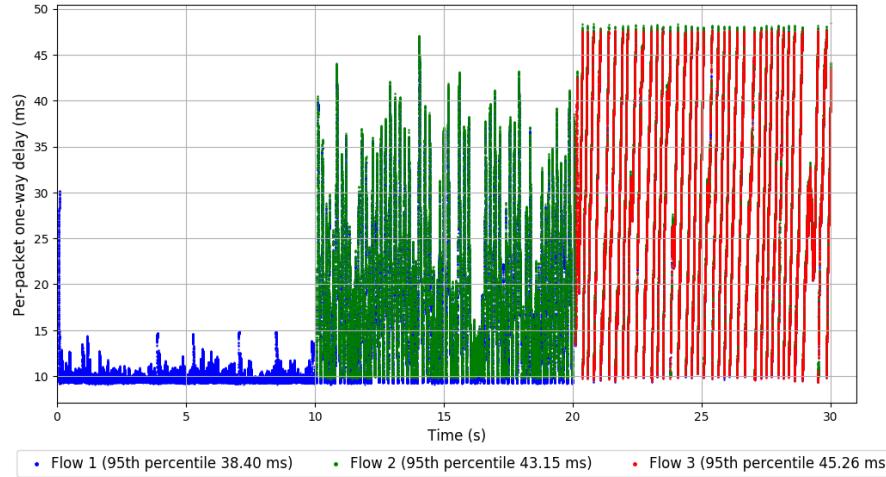
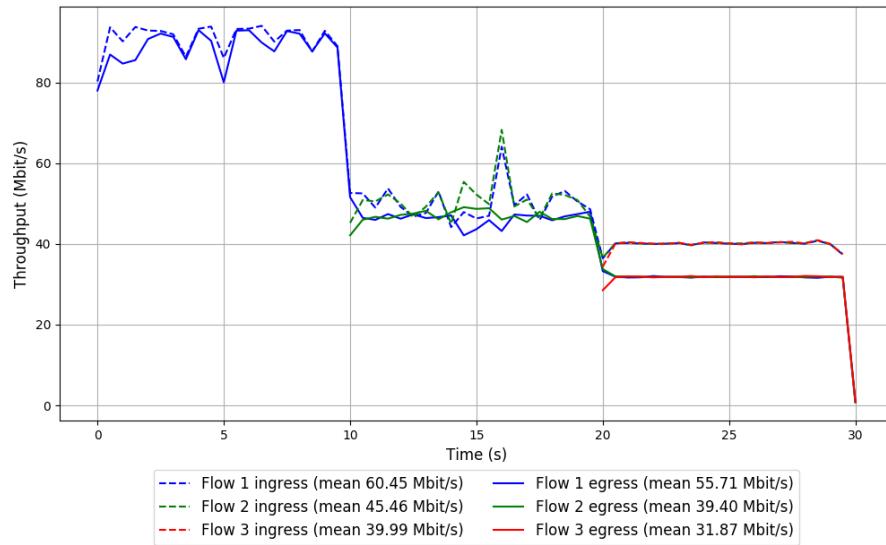


Run 3: Statistics of TaoVA-100x

```
Start at: 2018-04-24 21:22:18
End at: 2018-04-24 21:22:48
Local clock offset: -0.815 ms
Remote clock offset: -10.987 ms

# Below is generated by plot.py at 2018-04-25 00:20:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.52 Mbit/s
95th percentile per-packet one-way delay: 42.004 ms
Loss rate: 10.93%
-- Flow 1:
Average throughput: 55.71 Mbit/s
95th percentile per-packet one-way delay: 38.404 ms
Loss rate: 7.75%
-- Flow 2:
Average throughput: 39.40 Mbit/s
95th percentile per-packet one-way delay: 43.149 ms
Loss rate: 13.18%
-- Flow 3:
Average throughput: 31.87 Mbit/s
95th percentile per-packet one-way delay: 45.258 ms
Loss rate: 20.25%
```

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

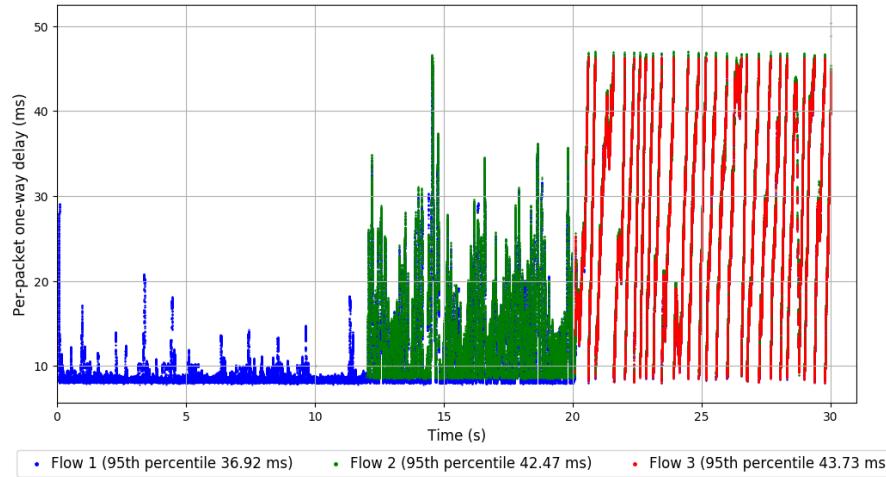
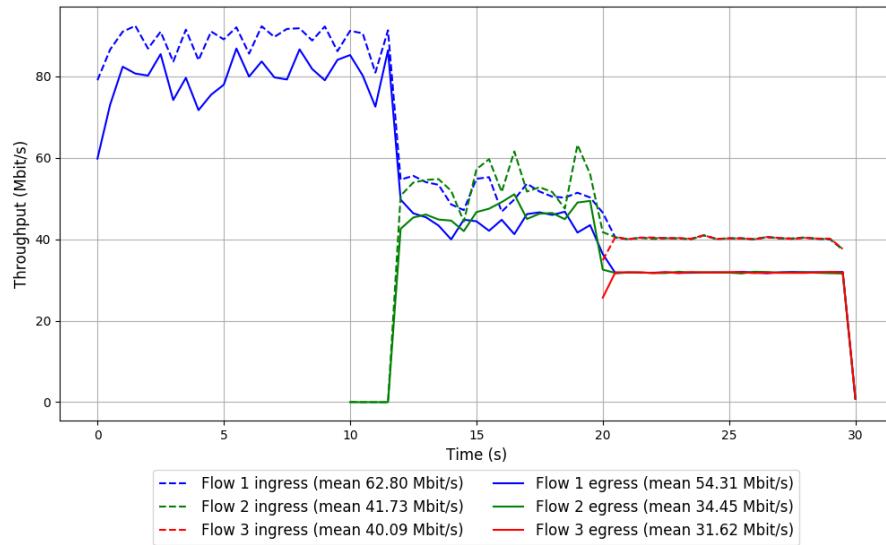


Run 4: Statistics of TaoVA-100x

```
Start at: 2018-04-24 21:41:44
End at: 2018-04-24 21:42:14
Local clock offset: 0.083 ms
Remote clock offset: -5.491 ms

# Below is generated by plot.py at 2018-04-25 00:20:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.77 Mbit/s
95th percentile per-packet one-way delay: 41.180 ms
Loss rate: 15.41%
-- Flow 1:
Average throughput: 54.31 Mbit/s
95th percentile per-packet one-way delay: 36.917 ms
Loss rate: 13.42%
-- Flow 2:
Average throughput: 34.45 Mbit/s
95th percentile per-packet one-way delay: 42.474 ms
Loss rate: 17.29%
-- Flow 3:
Average throughput: 31.62 Mbit/s
95th percentile per-packet one-way delay: 43.732 ms
Loss rate: 20.85%
```

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

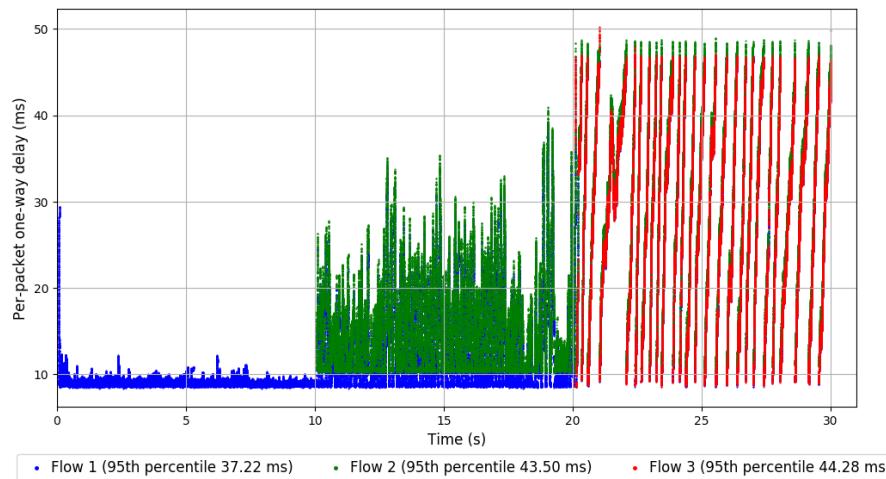
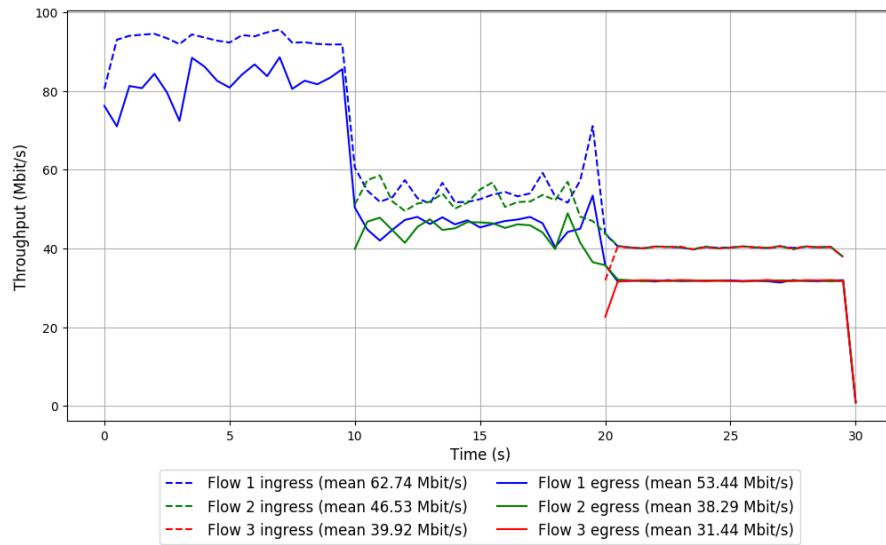


Run 5: Statistics of TaoVA-100x

```
Start at: 2018-04-24 22:01:21
End at: 2018-04-24 22:01:51
Local clock offset: -1.066 ms
Remote clock offset: -2.523 ms

# Below is generated by plot.py at 2018-04-25 00:20:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.40 Mbit/s
95th percentile per-packet one-way delay: 41.622 ms
Loss rate: 16.31%
-- Flow 1:
Average throughput: 53.44 Mbit/s
95th percentile per-packet one-way delay: 37.217 ms
Loss rate: 14.71%
-- Flow 2:
Average throughput: 38.29 Mbit/s
95th percentile per-packet one-way delay: 43.501 ms
Loss rate: 17.56%
-- Flow 3:
Average throughput: 31.44 Mbit/s
95th percentile per-packet one-way delay: 44.280 ms
Loss rate: 20.97%
```

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

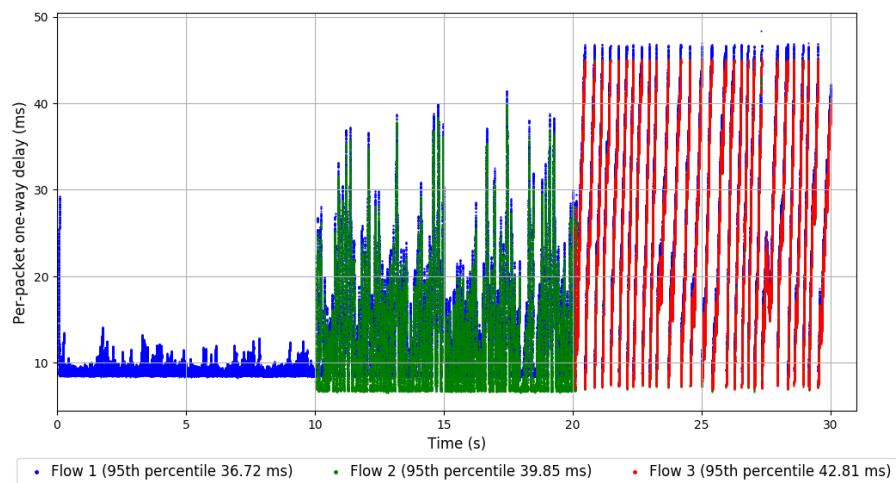
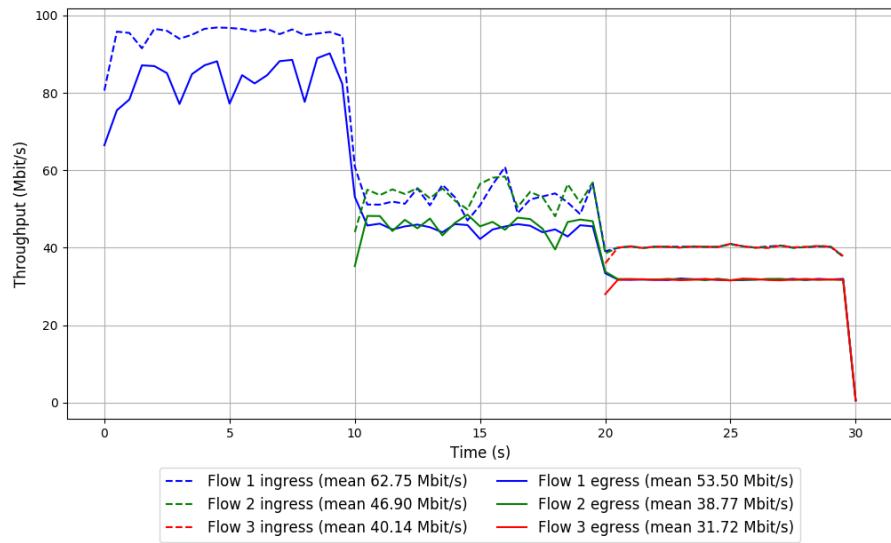


Run 6: Statistics of TaoVA-100x

```
Start at: 2018-04-24 22:21:05
End at: 2018-04-24 22:21:35
Local clock offset: -13.765 ms
Remote clock offset: -12.108 ms

# Below is generated by plot.py at 2018-04-25 00:21:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.88 Mbit/s
95th percentile per-packet one-way delay: 39.596 ms
Loss rate: 16.16%
-- Flow 1:
Average throughput: 53.50 Mbit/s
95th percentile per-packet one-way delay: 36.718 ms
Loss rate: 14.66%
-- Flow 2:
Average throughput: 38.77 Mbit/s
95th percentile per-packet one-way delay: 39.852 ms
Loss rate: 17.20%
-- Flow 3:
Average throughput: 31.72 Mbit/s
95th percentile per-packet one-way delay: 42.813 ms
Loss rate: 20.80%
```

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

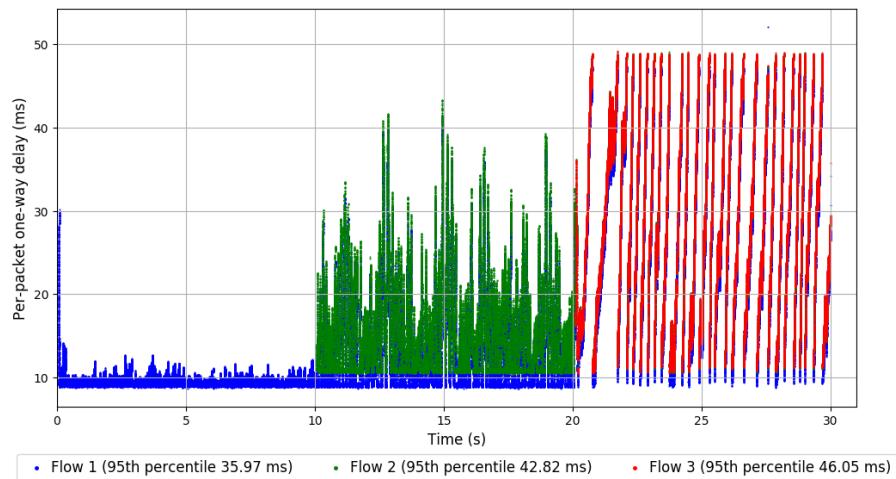
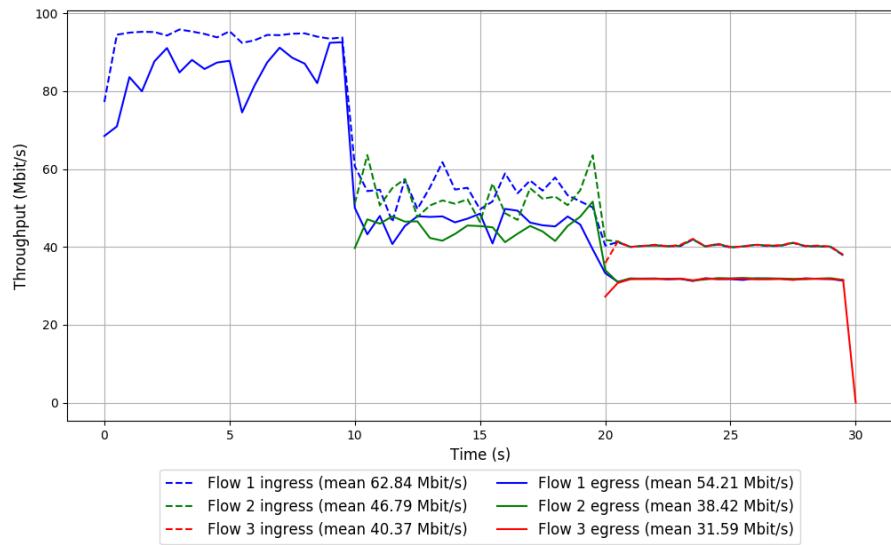


Run 7: Statistics of TaoVA-100x

```
Start at: 2018-04-24 22:40:56
End at: 2018-04-24 22:41:26
Local clock offset: -13.554 ms
Remote clock offset: -6.119 ms

# Below is generated by plot.py at 2018-04-25 00:21:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.28 Mbit/s
95th percentile per-packet one-way delay: 41.195 ms
Loss rate: 15.86%
-- Flow 1:
Average throughput: 54.21 Mbit/s
95th percentile per-packet one-way delay: 35.973 ms
Loss rate: 13.67%
-- Flow 2:
Average throughput: 38.42 Mbit/s
95th percentile per-packet one-way delay: 42.821 ms
Loss rate: 17.80%
-- Flow 3:
Average throughput: 31.59 Mbit/s
95th percentile per-packet one-way delay: 46.047 ms
Loss rate: 21.63%
```

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

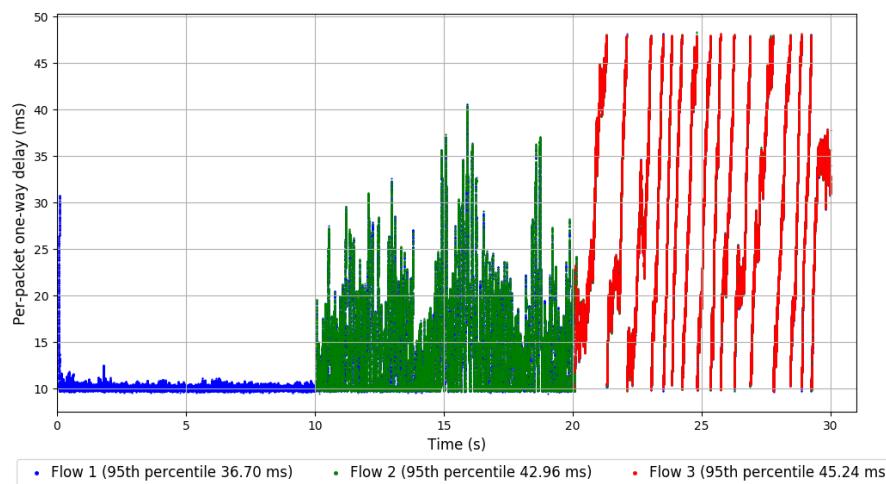
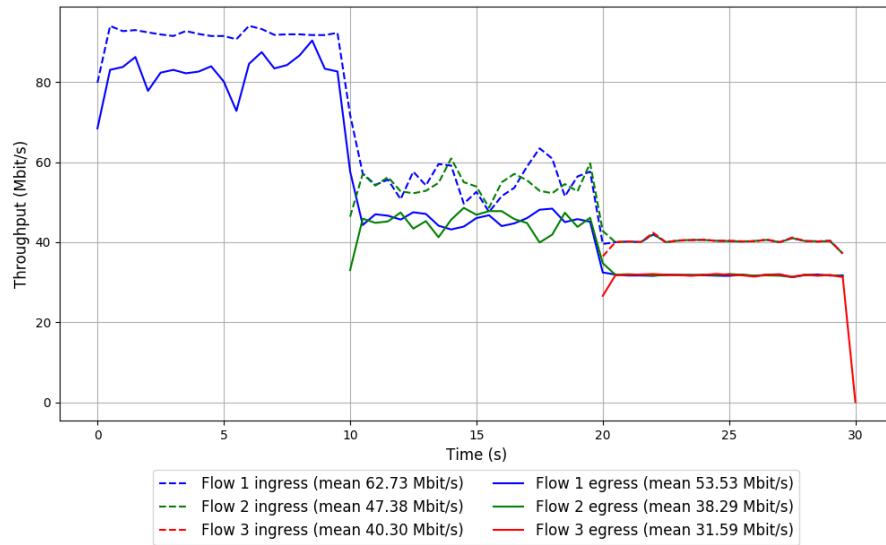


Run 8: Statistics of TaoVA-100x

```
Start at: 2018-04-24 23:00:46
End at: 2018-04-24 23:01:16
Local clock offset: -16.636 ms
Remote clock offset: -7.385 ms

# Below is generated by plot.py at 2018-04-25 00:21:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.53 Mbit/s
95th percentile per-packet one-way delay: 42.257 ms
Loss rate: 16.76%
-- Flow 1:
Average throughput: 53.53 Mbit/s
95th percentile per-packet one-way delay: 36.696 ms
Loss rate: 14.60%
-- Flow 2:
Average throughput: 38.29 Mbit/s
95th percentile per-packet one-way delay: 42.962 ms
Loss rate: 19.09%
-- Flow 3:
Average throughput: 31.59 Mbit/s
95th percentile per-packet one-way delay: 45.239 ms
Loss rate: 21.42%
```

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

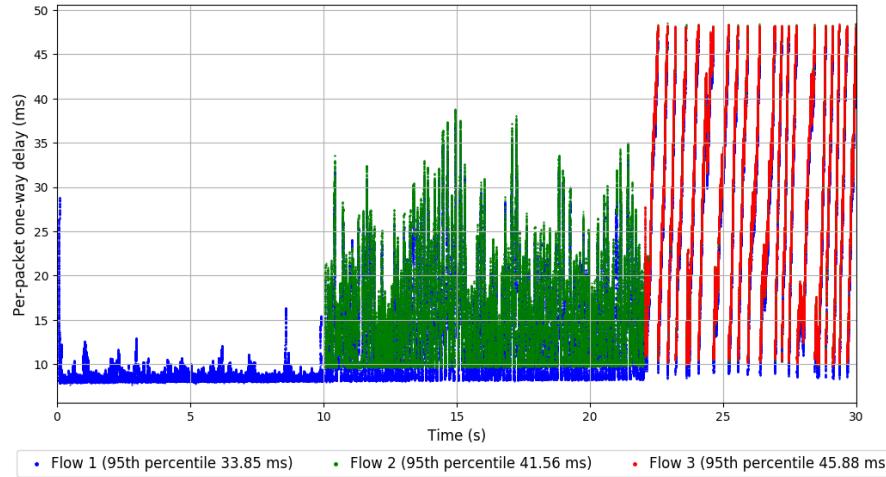
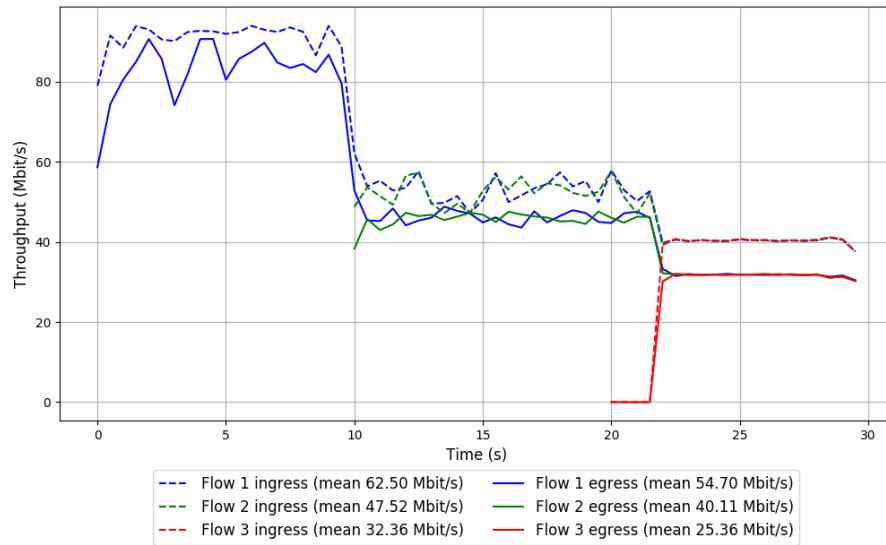


Run 9: Statistics of TaoVA-100x

```
Start at: 2018-04-24 23:20:54
End at: 2018-04-24 23:21:24
Local clock offset: -12.22 ms
Remote clock offset: -8.133 ms

# Below is generated by plot.py at 2018-04-25 00:23:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.84 Mbit/s
95th percentile per-packet one-way delay: 40.344 ms
Loss rate: 14.34%
-- Flow 1:
Average throughput: 54.70 Mbit/s
95th percentile per-packet one-way delay: 33.846 ms
Loss rate: 12.47%
-- Flow 2:
Average throughput: 40.11 Mbit/s
95th percentile per-packet one-way delay: 41.556 ms
Loss rate: 15.57%
-- Flow 3:
Average throughput: 25.36 Mbit/s
95th percentile per-packet one-way delay: 45.884 ms
Loss rate: 21.61%
```

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

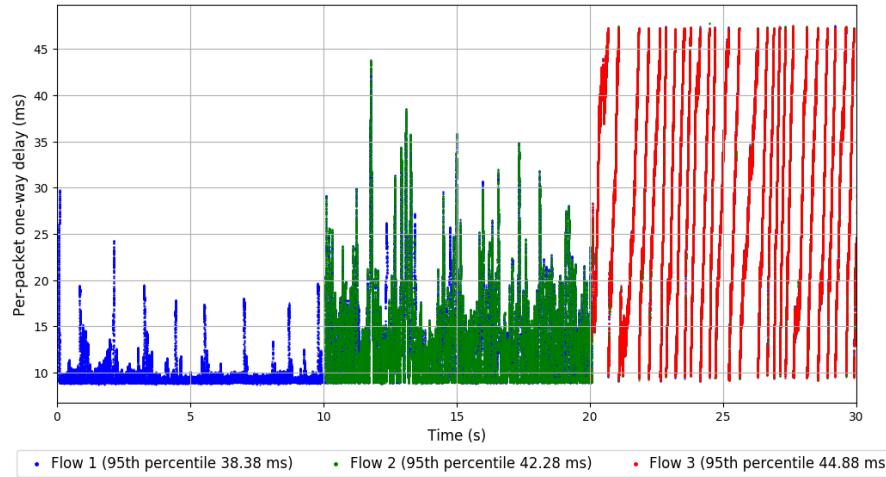
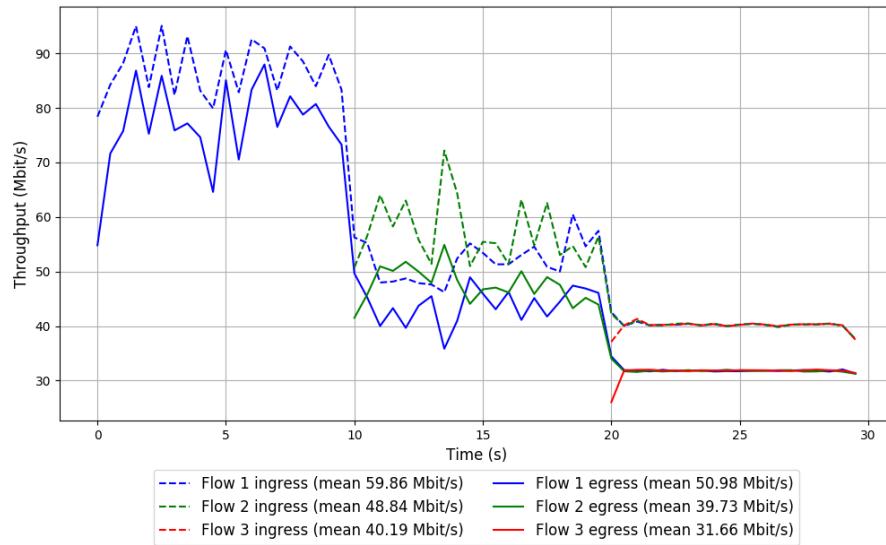


Run 10: Statistics of TaoVA-100x

```
Start at: 2018-04-24 23:40:32
End at: 2018-04-24 23:41:02
Local clock offset: -2.702 ms
Remote clock offset: -6.635 ms

# Below is generated by plot.py at 2018-04-25 00:23:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.96 Mbit/s
95th percentile per-packet one-way delay: 41.838 ms
Loss rate: 16.75%
-- Flow 1:
Average throughput: 50.98 Mbit/s
95th percentile per-packet one-way delay: 38.376 ms
Loss rate: 14.80%
-- Flow 2:
Average throughput: 39.73 Mbit/s
95th percentile per-packet one-way delay: 42.280 ms
Loss rate: 18.57%
-- Flow 3:
Average throughput: 31.66 Mbit/s
95th percentile per-packet one-way delay: 44.878 ms
Loss rate: 21.10%
```

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

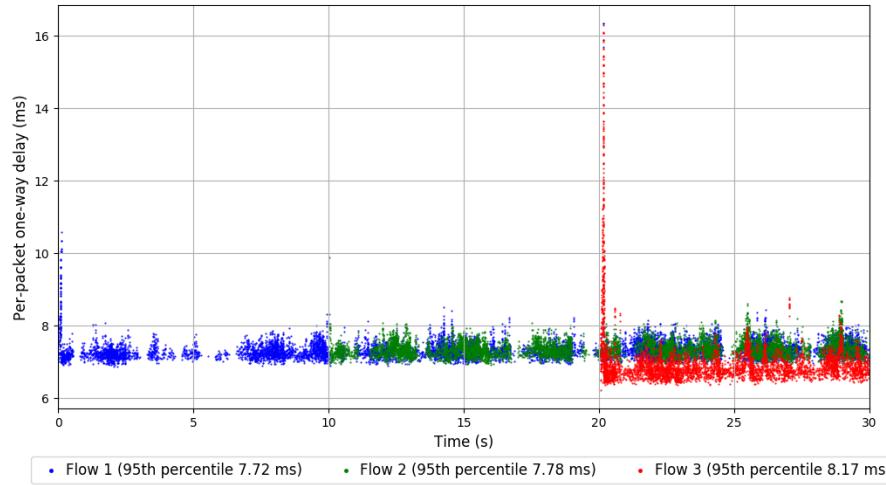
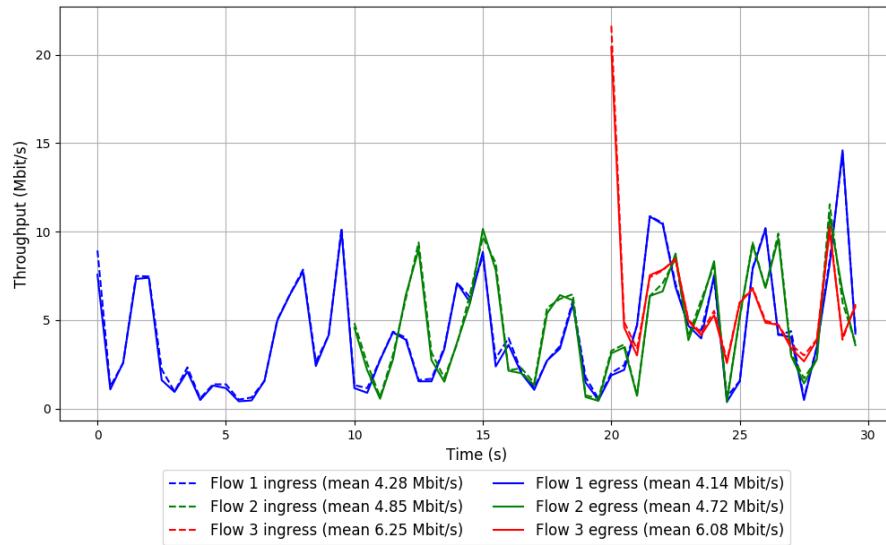


Run 1: Statistics of TCP Vegas

```
Start at: 2018-04-24 20:45:22
End at: 2018-04-24 20:45:52
Local clock offset: 1.742 ms
Remote clock offset: -10.996 ms

# Below is generated by plot.py at 2018-04-25 00:23:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.30 Mbit/s
95th percentile per-packet one-way delay: 7.762 ms
Loss rate: 3.00%
-- Flow 1:
Average throughput: 4.14 Mbit/s
95th percentile per-packet one-way delay: 7.724 ms
Loss rate: 3.35%
-- Flow 2:
Average throughput: 4.72 Mbit/s
95th percentile per-packet one-way delay: 7.778 ms
Loss rate: 2.70%
-- Flow 3:
Average throughput: 6.08 Mbit/s
95th percentile per-packet one-way delay: 8.174 ms
Loss rate: 2.72%
```

Run 1: Report of TCP Vegas — Data Link

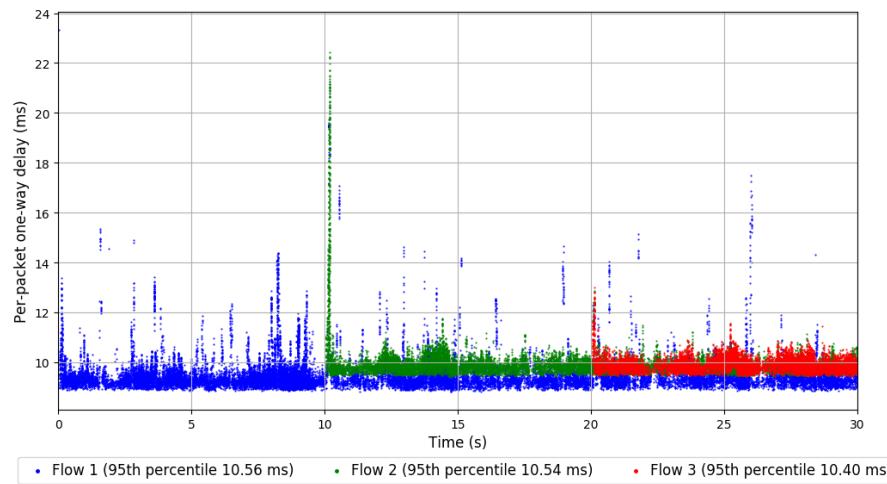
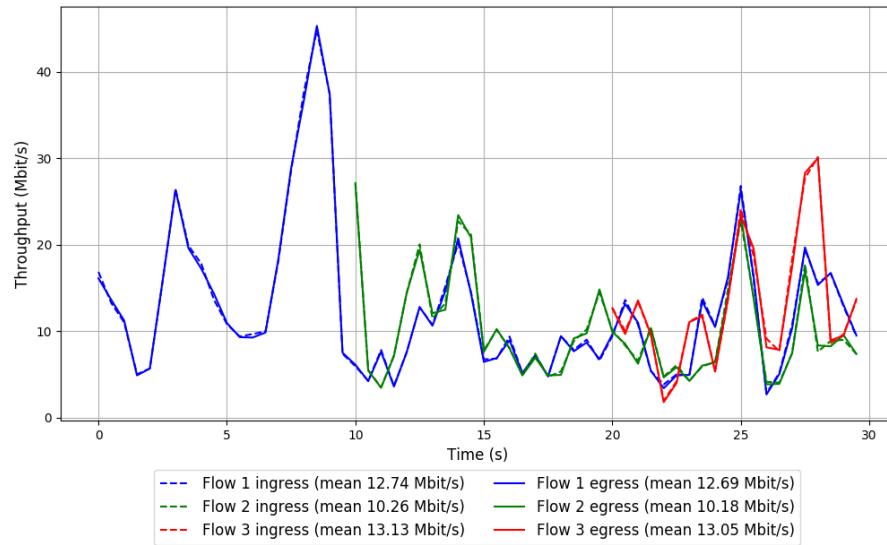


Run 2: Statistics of TCP Vegas

```
Start at: 2018-04-24 21:05:04
End at: 2018-04-24 21:05:34
Local clock offset: -0.235 ms
Remote clock offset: -10.894 ms

# Below is generated by plot.py at 2018-04-25 00:23:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.81 Mbit/s
95th percentile per-packet one-way delay: 10.492 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 12.69 Mbit/s
95th percentile per-packet one-way delay: 10.565 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 10.18 Mbit/s
95th percentile per-packet one-way delay: 10.543 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 13.05 Mbit/s
95th percentile per-packet one-way delay: 10.402 ms
Loss rate: 0.61%
```

Run 2: Report of TCP Vegas — Data Link

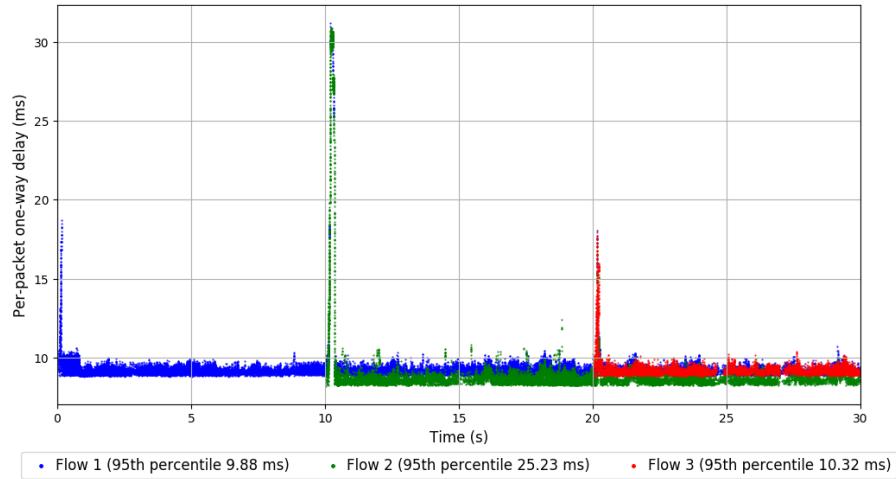
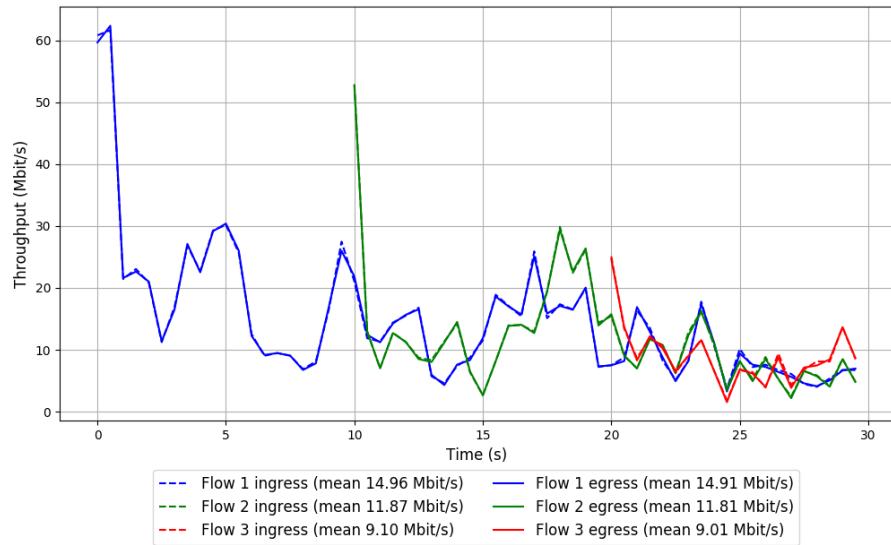


Run 3: Statistics of TCP Vegas

```
Start at: 2018-04-24 21:24:37
End at: 2018-04-24 21:25:07
Local clock offset: 0.555 ms
Remote clock offset: -10.575 ms

# Below is generated by plot.py at 2018-04-25 00:23:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 25.75 Mbit/s
95th percentile per-packet one-way delay: 10.018 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 14.91 Mbit/s
95th percentile per-packet one-way delay: 9.877 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 11.81 Mbit/s
95th percentile per-packet one-way delay: 25.232 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 9.01 Mbit/s
95th percentile per-packet one-way delay: 10.321 ms
Loss rate: 0.94%
```

Run 3: Report of TCP Vegas — Data Link

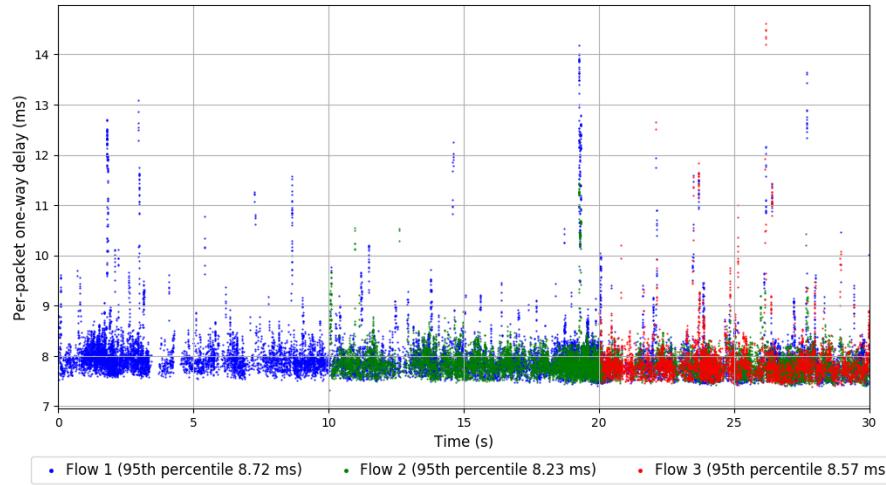
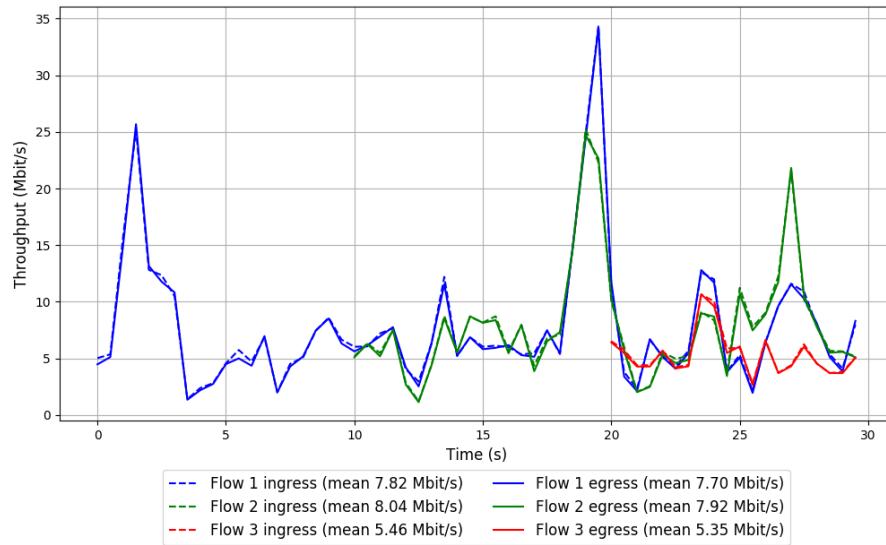


Run 4: Statistics of TCP Vegas

```
Start at: 2018-04-24 21:44:03
End at: 2018-04-24 21:44:33
Local clock offset: 0.163 ms
Remote clock offset: -5.102 ms

# Below is generated by plot.py at 2018-04-25 00:23:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.75 Mbit/s
95th percentile per-packet one-way delay: 8.469 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 7.70 Mbit/s
95th percentile per-packet one-way delay: 8.716 ms
Loss rate: 1.52%
-- Flow 2:
Average throughput: 7.92 Mbit/s
95th percentile per-packet one-way delay: 8.226 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 5.35 Mbit/s
95th percentile per-packet one-way delay: 8.568 ms
Loss rate: 2.05%
```

Run 4: Report of TCP Vegas — Data Link

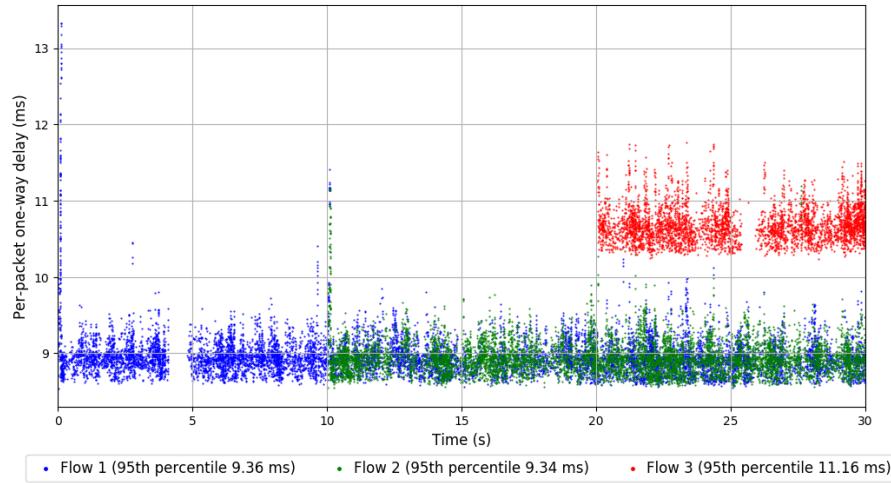
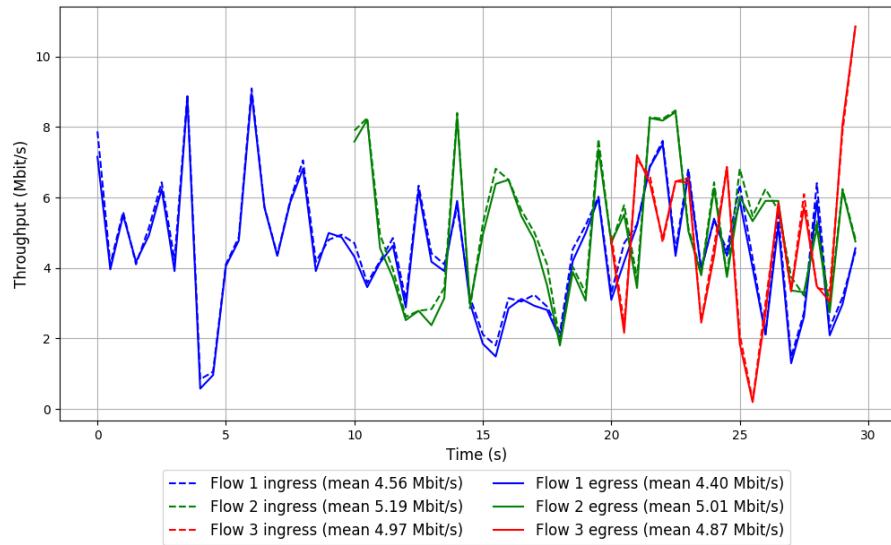


Run 5: Statistics of TCP Vegas

```
Start at: 2018-04-24 22:03:41
End at: 2018-04-24 22:04:11
Local clock offset: -0.244 ms
Remote clock offset: -1.34 ms

# Below is generated by plot.py at 2018-04-25 00:23:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.35 Mbit/s
95th percentile per-packet one-way delay: 10.791 ms
Loss rate: 3.23%
-- Flow 1:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 9.359 ms
Loss rate: 3.59%
-- Flow 2:
Average throughput: 5.01 Mbit/s
95th percentile per-packet one-way delay: 9.335 ms
Loss rate: 3.42%
-- Flow 3:
Average throughput: 4.87 Mbit/s
95th percentile per-packet one-way delay: 11.156 ms
Loss rate: 1.82%
```

Run 5: Report of TCP Vegas — Data Link

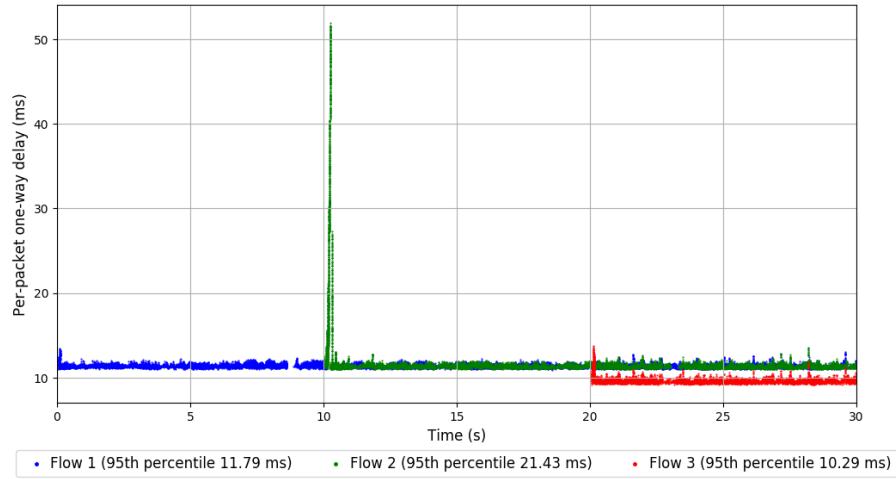
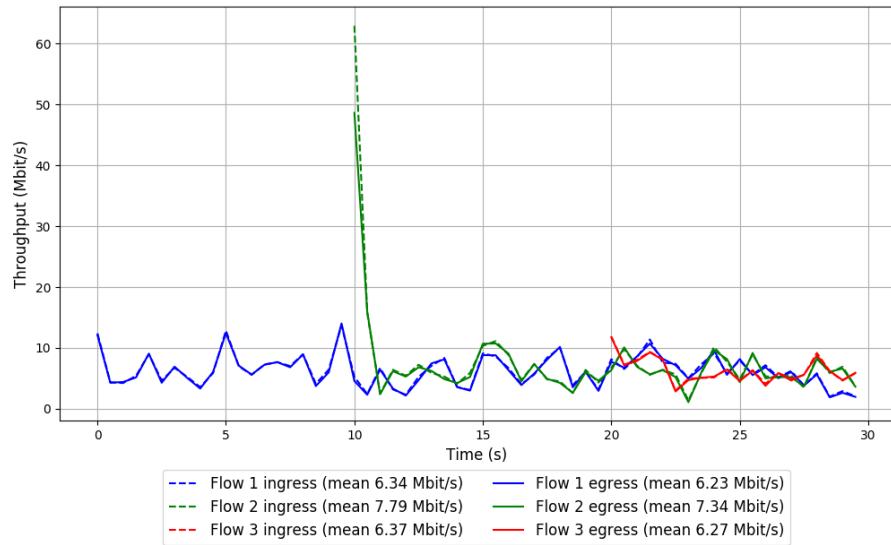


Run 6: Statistics of TCP Vegas

```
Start at: 2018-04-24 22:23:26
End at: 2018-04-24 22:23:56
Local clock offset: -10.501 ms
Remote clock offset: -5.784 ms

# Below is generated by plot.py at 2018-04-25 00:23:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.20 Mbit/s
95th percentile per-packet one-way delay: 11.965 ms
Loss rate: 3.22%
-- Flow 1:
Average throughput: 6.23 Mbit/s
95th percentile per-packet one-way delay: 11.795 ms
Loss rate: 1.69%
-- Flow 2:
Average throughput: 7.34 Mbit/s
95th percentile per-packet one-way delay: 21.427 ms
Loss rate: 5.78%
-- Flow 3:
Average throughput: 6.27 Mbit/s
95th percentile per-packet one-way delay: 10.290 ms
Loss rate: 1.52%
```

Run 6: Report of TCP Vegas — Data Link

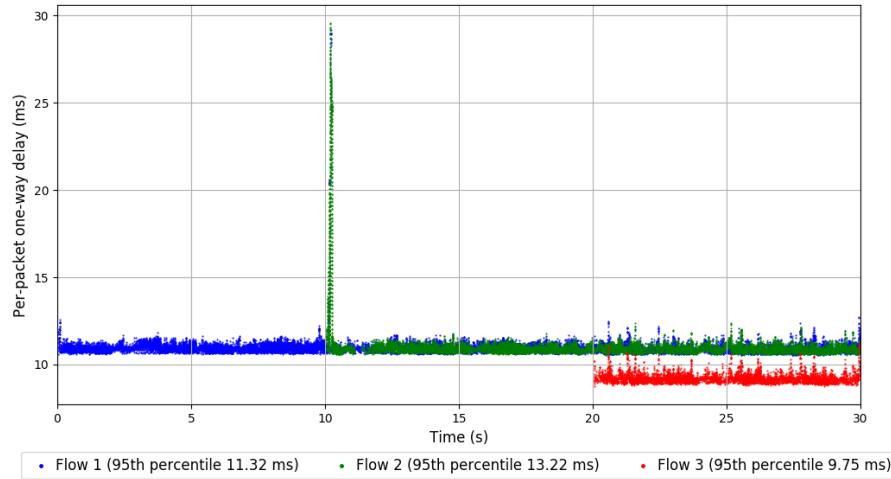
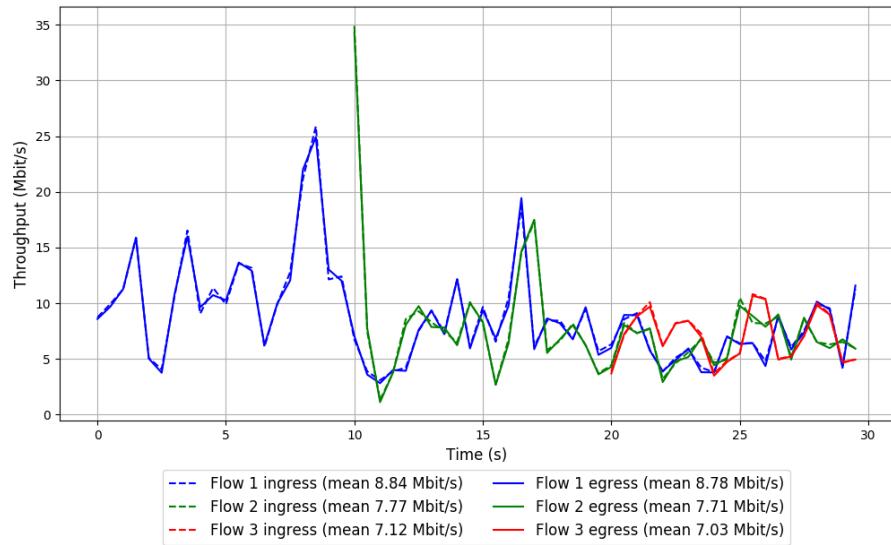


Run 7: Statistics of TCP Vegas

```
Start at: 2018-04-24 22:43:21
End at: 2018-04-24 22:43:51
Local clock offset: -14.216 ms
Remote clock offset: -6.425 ms

# Below is generated by plot.py at 2018-04-25 00:23:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.24 Mbit/s
95th percentile per-packet one-way delay: 11.349 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 8.78 Mbit/s
95th percentile per-packet one-way delay: 11.323 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 7.71 Mbit/s
95th percentile per-packet one-way delay: 13.224 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 7.03 Mbit/s
95th percentile per-packet one-way delay: 9.752 ms
Loss rate: 1.24%
```

Run 7: Report of TCP Vegas — Data Link

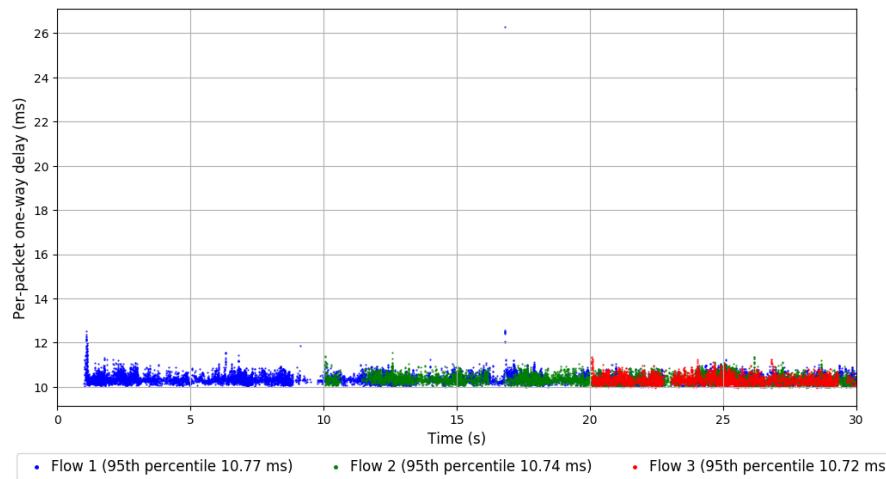
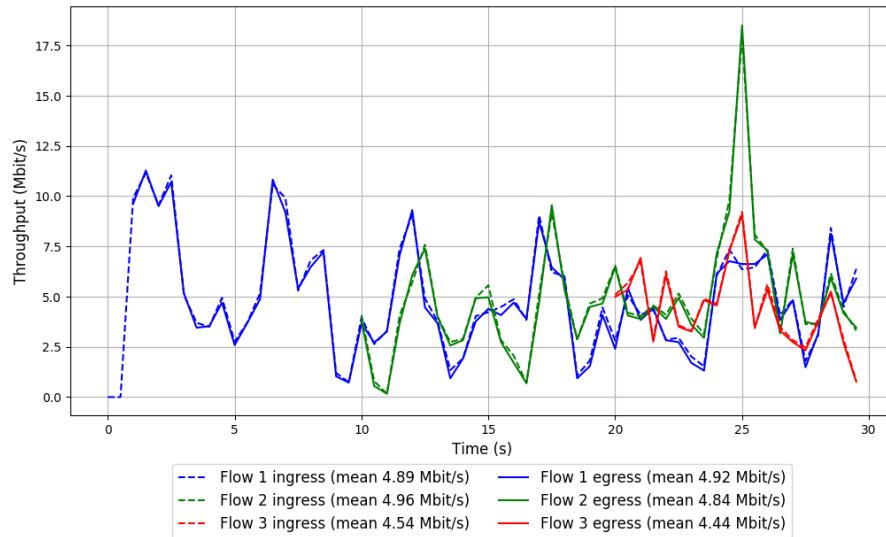


Run 8: Statistics of TCP Vegas

```
Start at: 2018-04-24 23:03:10
End at: 2018-04-24 23:03:40
Local clock offset: -15.977 ms
Remote clock offset: -6.052 ms

# Below is generated by plot.py at 2018-04-25 00:23:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.78 Mbit/s
95th percentile per-packet one-way delay: 10.750 ms
Loss rate: 2.45%
-- Flow 1:
Average throughput: 4.92 Mbit/s
95th percentile per-packet one-way delay: 10.768 ms
Loss rate: 2.64%
-- Flow 2:
Average throughput: 4.84 Mbit/s
95th percentile per-packet one-way delay: 10.741 ms
Loss rate: 2.32%
-- Flow 3:
Average throughput: 4.44 Mbit/s
95th percentile per-packet one-way delay: 10.716 ms
Loss rate: 2.16%
```

Run 8: Report of TCP Vegas — Data Link

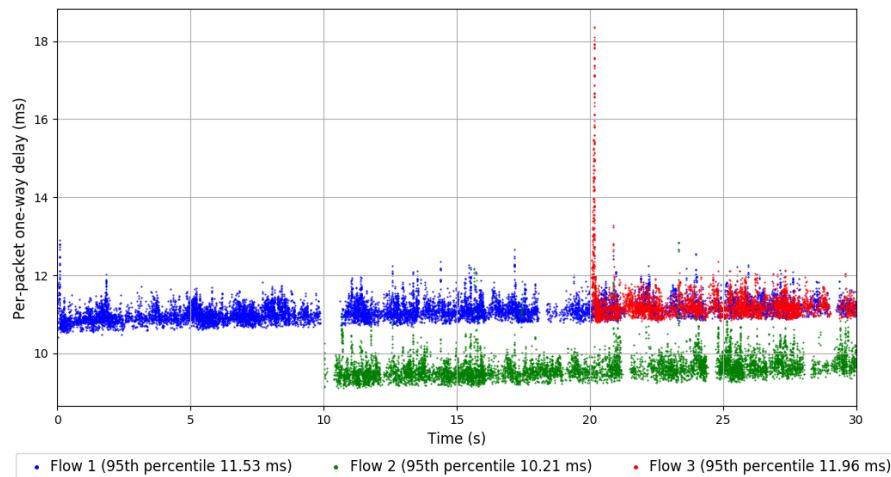
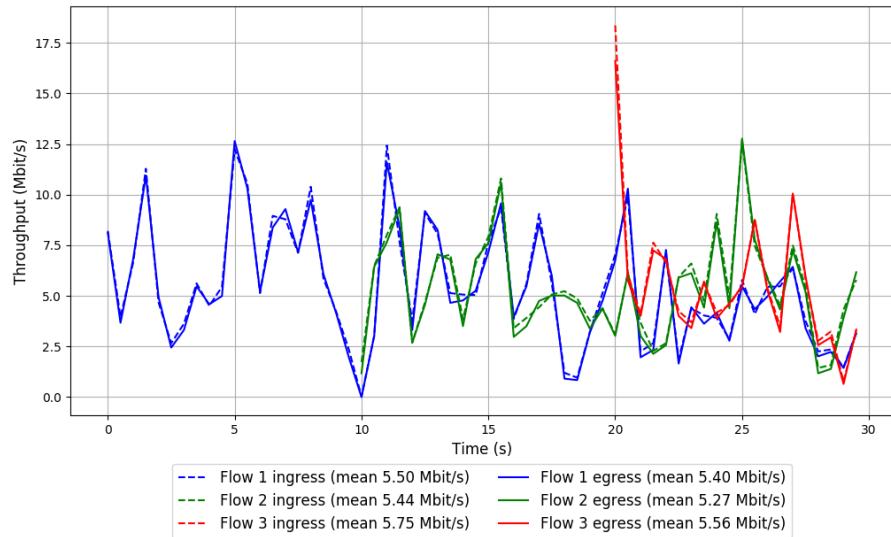


Run 9: Statistics of TCP Vegas

```
Start at: 2018-04-24 23:23:17
End at: 2018-04-24 23:23:47
Local clock offset: -10.56 ms
Remote clock offset: -7.518 ms

# Below is generated by plot.py at 2018-04-25 00:23:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.75 Mbit/s
95th percentile per-packet one-way delay: 11.538 ms
Loss rate: 2.50%
-- Flow 1:
Average throughput: 5.40 Mbit/s
95th percentile per-packet one-way delay: 11.527 ms
Loss rate: 1.77%
-- Flow 2:
Average throughput: 5.27 Mbit/s
95th percentile per-packet one-way delay: 10.213 ms
Loss rate: 3.12%
-- Flow 3:
Average throughput: 5.56 Mbit/s
95th percentile per-packet one-way delay: 11.963 ms
Loss rate: 3.44%
```

Run 9: Report of TCP Vegas — Data Link

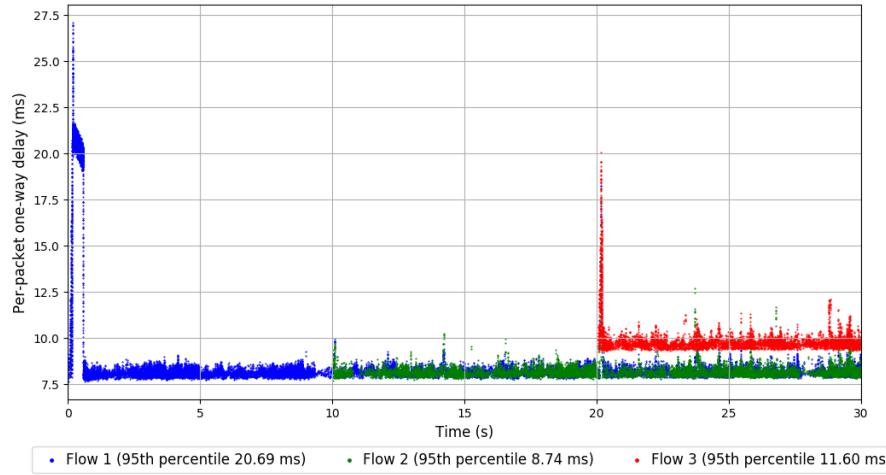
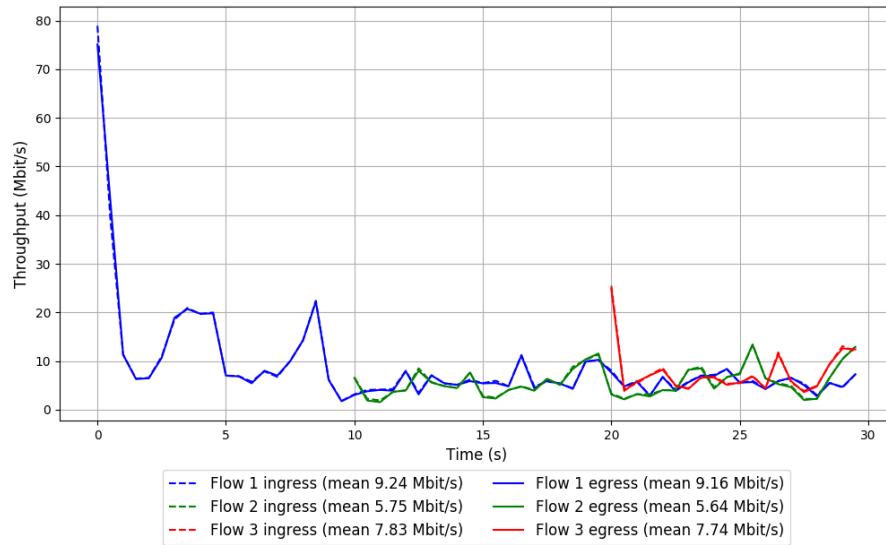


Run 10: Statistics of TCP Vegas

```
Start at: 2018-04-24 23:42:54
End at: 2018-04-24 23:43:24
Local clock offset: -2.258 ms
Remote clock offset: -7.768 ms

# Below is generated by plot.py at 2018-04-25 00:23:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.48 Mbit/s
95th percentile per-packet one-way delay: 20.331 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 9.16 Mbit/s
95th percentile per-packet one-way delay: 20.687 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 5.64 Mbit/s
95th percentile per-packet one-way delay: 8.745 ms
Loss rate: 1.90%
-- Flow 3:
Average throughput: 7.74 Mbit/s
95th percentile per-packet one-way delay: 11.601 ms
Loss rate: 1.16%
```

Run 10: Report of TCP Vegas — Data Link

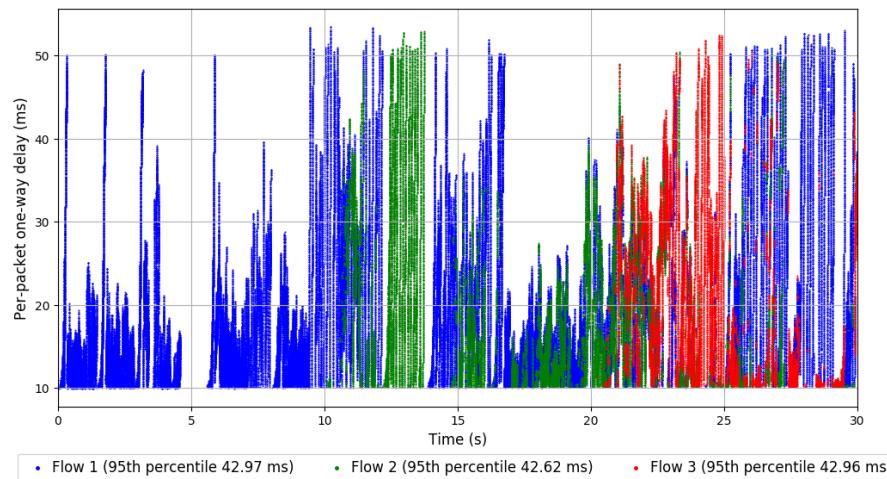
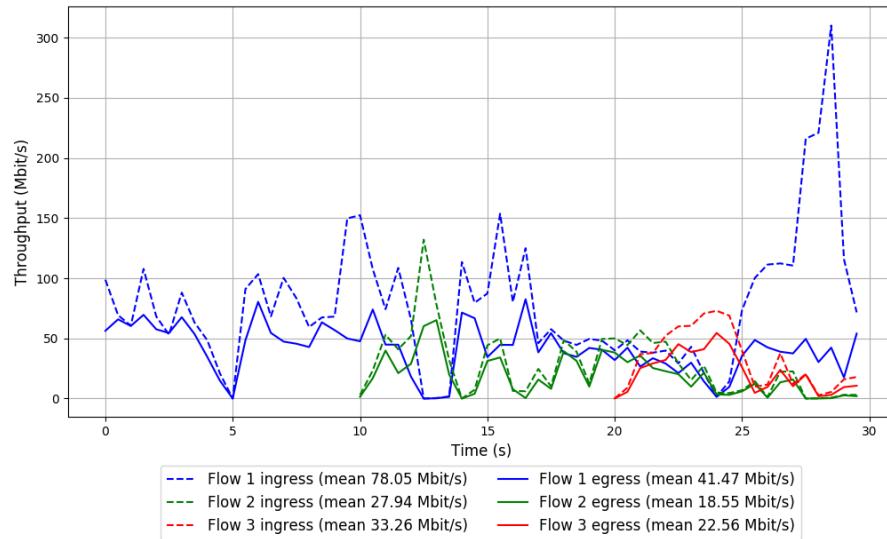


Run 1: Statistics of Verus

```
Start at: 2018-04-24 20:30:22
End at: 2018-04-24 20:30:52
Local clock offset: -2.049 ms
Remote clock offset: -9.506 ms

# Below is generated by plot.py at 2018-04-25 00:23:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.11 Mbit/s
95th percentile per-packet one-way delay: 42.888 ms
Loss rate: 43.04%
-- Flow 1:
Average throughput: 41.47 Mbit/s
95th percentile per-packet one-way delay: 42.969 ms
Loss rate: 46.82%
-- Flow 2:
Average throughput: 18.55 Mbit/s
95th percentile per-packet one-way delay: 42.620 ms
Loss rate: 33.55%
-- Flow 3:
Average throughput: 22.56 Mbit/s
95th percentile per-packet one-way delay: 42.962 ms
Loss rate: 32.05%
```

Run 1: Report of Verus — Data Link

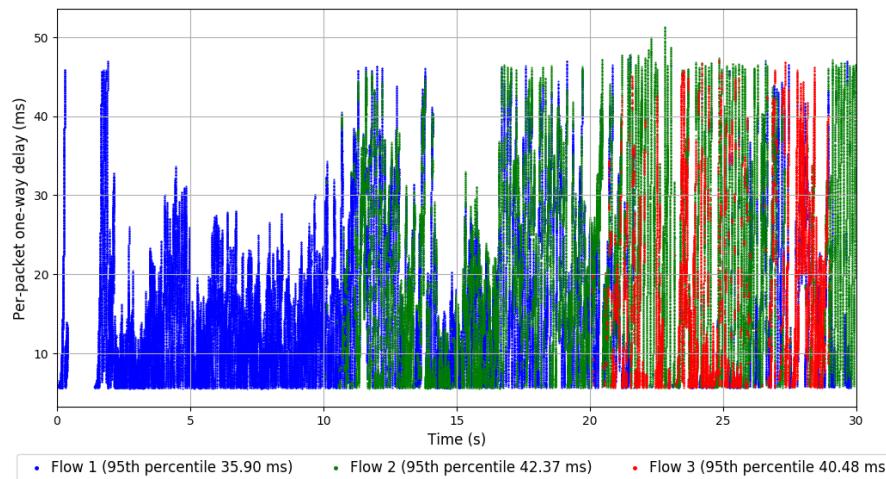
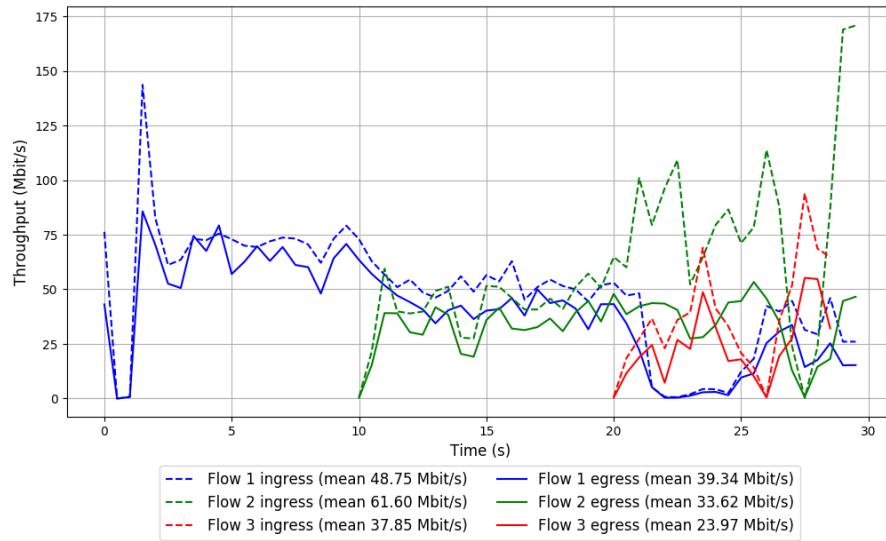


Run 2: Statistics of Verus

```
Start at: 2018-04-24 20:50:06
End at: 2018-04-24 20:50:36
Local clock offset: 3.135 ms
Remote clock offset: -10.909 ms

# Below is generated by plot.py at 2018-04-25 00:23:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.61 Mbit/s
95th percentile per-packet one-way delay: 39.643 ms
Loss rate: 32.02%
-- Flow 1:
Average throughput: 39.34 Mbit/s
95th percentile per-packet one-way delay: 35.904 ms
Loss rate: 19.75%
-- Flow 2:
Average throughput: 33.62 Mbit/s
95th percentile per-packet one-way delay: 42.366 ms
Loss rate: 45.35%
-- Flow 3:
Average throughput: 23.97 Mbit/s
95th percentile per-packet one-way delay: 40.480 ms
Loss rate: 36.60%
```

Run 2: Report of Verus — Data Link

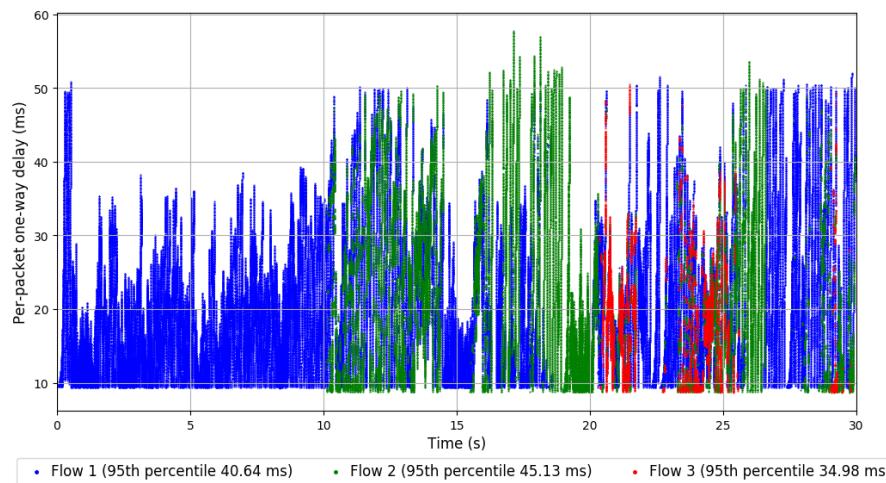
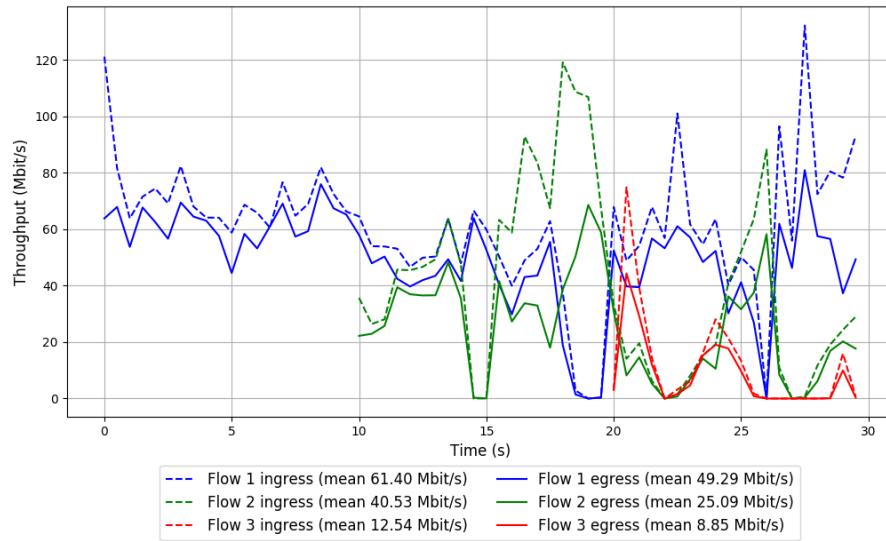


Run 3: Statistics of Verus

```
Start at: 2018-04-24 21:09:44
End at: 2018-04-24 21:10:14
Local clock offset: -0.897 ms
Remote clock offset: -11.409 ms

# Below is generated by plot.py at 2018-04-25 00:23:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.77 Mbit/s
95th percentile per-packet one-way delay: 41.975 ms
Loss rate: 25.48%
-- Flow 1:
Average throughput: 49.29 Mbit/s
95th percentile per-packet one-way delay: 40.642 ms
Loss rate: 19.65%
-- Flow 2:
Average throughput: 25.09 Mbit/s
95th percentile per-packet one-way delay: 45.126 ms
Loss rate: 38.13%
-- Flow 3:
Average throughput: 8.85 Mbit/s
95th percentile per-packet one-way delay: 34.978 ms
Loss rate: 29.71%
```

Run 3: Report of Verus — Data Link

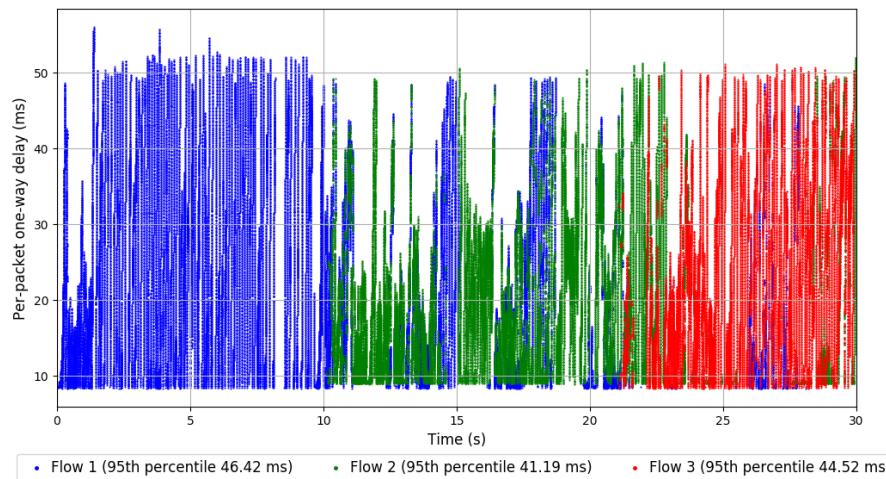
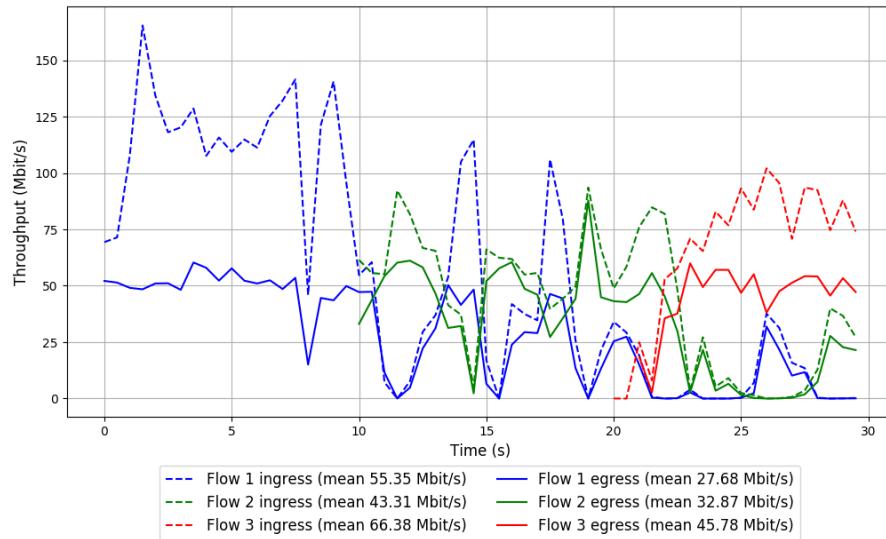


Run 4: Statistics of Verus

```
Start at: 2018-04-24 21:29:15
End at: 2018-04-24 21:29:45
Local clock offset: 0.312 ms
Remote clock offset: -10.909 ms

# Below is generated by plot.py at 2018-04-25 00:23:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.94 Mbit/s
95th percentile per-packet one-way delay: 44.797 ms
Loss rate: 40.48%
-- Flow 1:
Average throughput: 27.68 Mbit/s
95th percentile per-packet one-way delay: 46.421 ms
Loss rate: 50.03%
-- Flow 2:
Average throughput: 32.87 Mbit/s
95th percentile per-packet one-way delay: 41.185 ms
Loss rate: 24.10%
-- Flow 3:
Average throughput: 45.78 Mbit/s
95th percentile per-packet one-way delay: 44.517 ms
Loss rate: 37.93%
```

Run 4: Report of Verus — Data Link

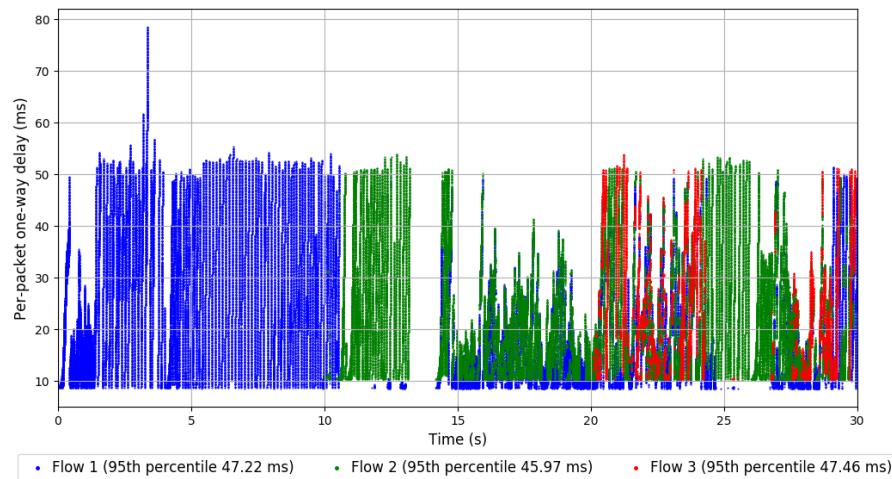
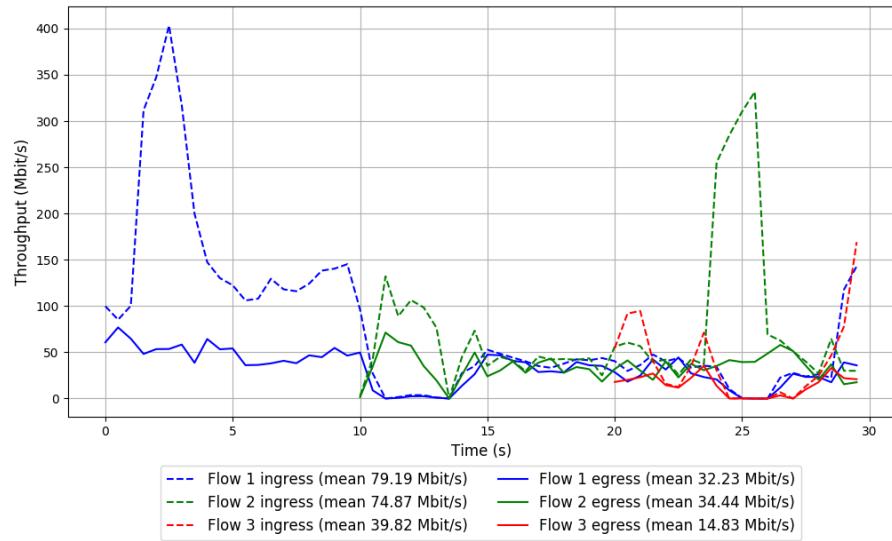


Run 5: Statistics of Verus

```
Start at: 2018-04-24 21:48:47
End at: 2018-04-24 21:49:17
Local clock offset: 0.344 ms
Remote clock offset: -2.689 ms

# Below is generated by plot.py at 2018-04-25 00:23:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.91 Mbit/s
95th percentile per-packet one-way delay: 46.827 ms
Loss rate: 57.76%
-- Flow 1:
Average throughput: 32.23 Mbit/s
95th percentile per-packet one-way delay: 47.220 ms
Loss rate: 59.26%
-- Flow 2:
Average throughput: 34.44 Mbit/s
95th percentile per-packet one-way delay: 45.974 ms
Loss rate: 54.07%
-- Flow 3:
Average throughput: 14.83 Mbit/s
95th percentile per-packet one-way delay: 47.456 ms
Loss rate: 62.70%
```

Run 5: Report of Verus — Data Link

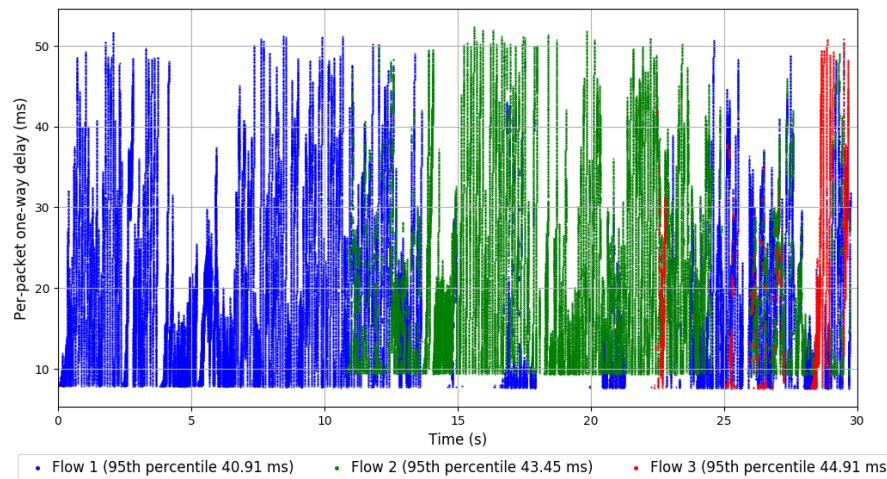
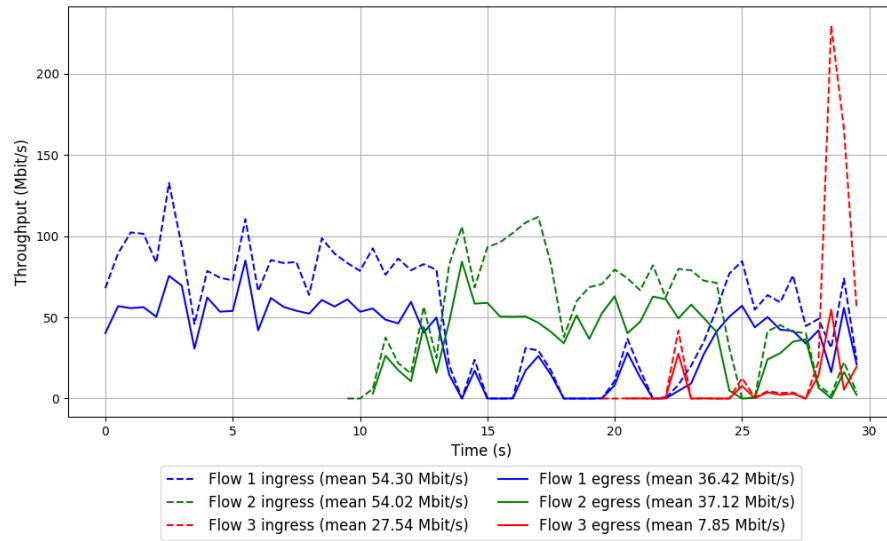


Run 6: Statistics of Verus

```
Start at: 2018-04-24 22:08:25
End at: 2018-04-24 22:08:55
Local clock offset: -1.652 ms
Remote clock offset: -3.497 ms

# Below is generated by plot.py at 2018-04-25 00:23:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.40 Mbit/s
95th percentile per-packet one-way delay: 42.238 ms
Loss rate: 37.34%
-- Flow 1:
Average throughput: 36.42 Mbit/s
95th percentile per-packet one-way delay: 40.910 ms
Loss rate: 32.88%
-- Flow 2:
Average throughput: 37.12 Mbit/s
95th percentile per-packet one-way delay: 43.445 ms
Loss rate: 34.71%
-- Flow 3:
Average throughput: 7.85 Mbit/s
95th percentile per-packet one-way delay: 44.908 ms
Loss rate: 74.33%
```

Run 6: Report of Verus — Data Link

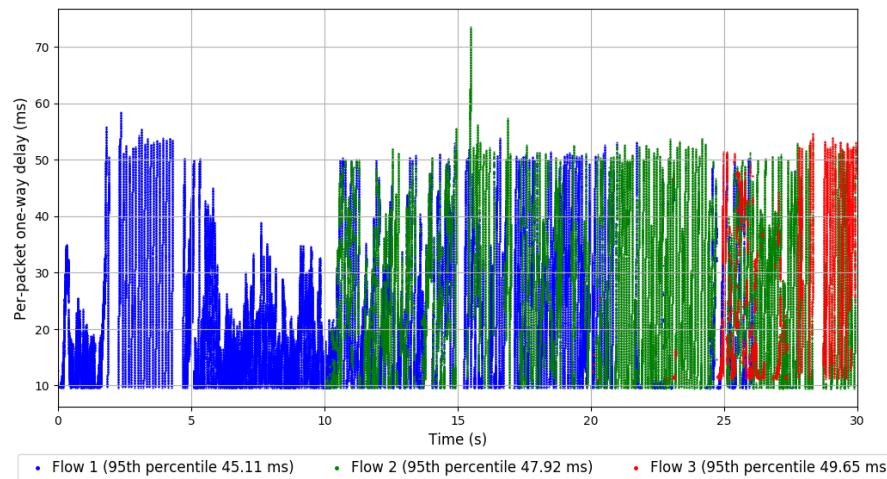
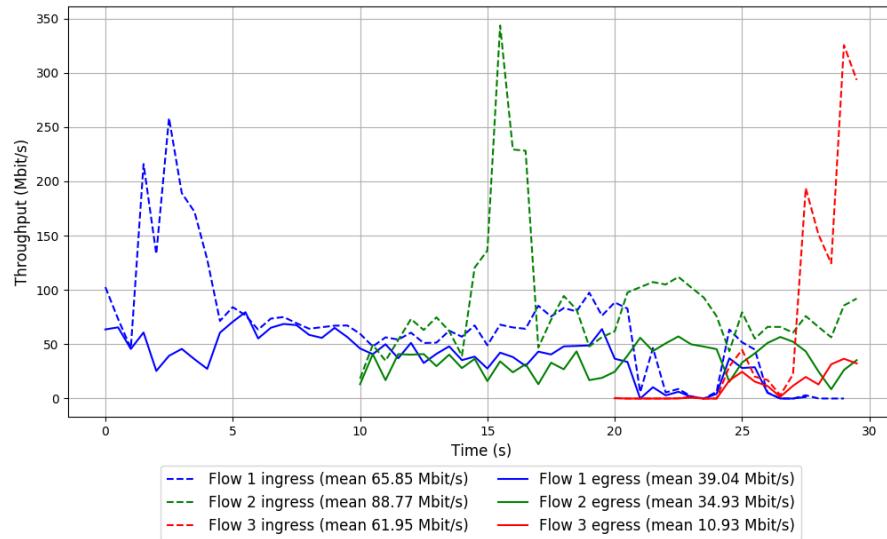


Run 7: Statistics of Verus

```
Start at: 2018-04-24 22:28:11
End at: 2018-04-24 22:28:41
Local clock offset: -11.87 ms
Remote clock offset: -5.904 ms

# Below is generated by plot.py at 2018-04-25 00:24:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.99 Mbit/s
95th percentile per-packet one-way delay: 46.901 ms
Loss rate: 56.10%
-- Flow 1:
Average throughput: 39.04 Mbit/s
95th percentile per-packet one-way delay: 45.111 ms
Loss rate: 43.48%
-- Flow 2:
Average throughput: 34.93 Mbit/s
95th percentile per-packet one-way delay: 47.921 ms
Loss rate: 60.62%
-- Flow 3:
Average throughput: 10.93 Mbit/s
95th percentile per-packet one-way delay: 49.648 ms
Loss rate: 82.40%
```

Run 7: Report of Verus — Data Link

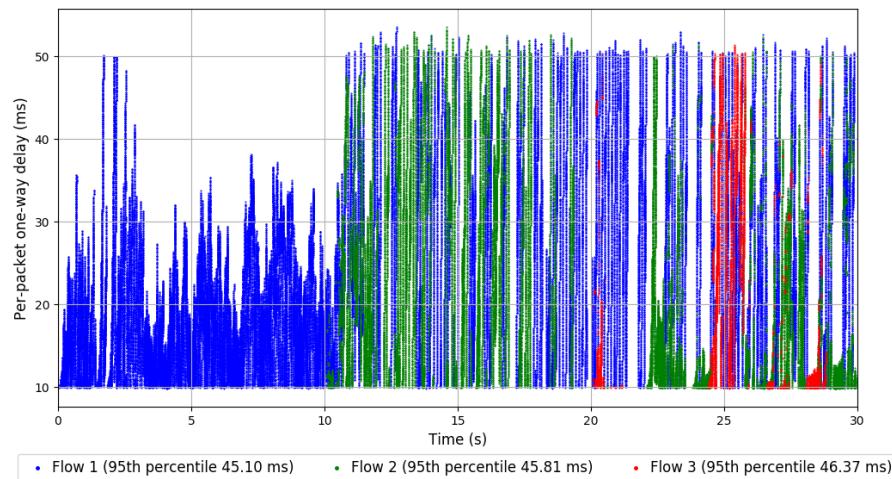
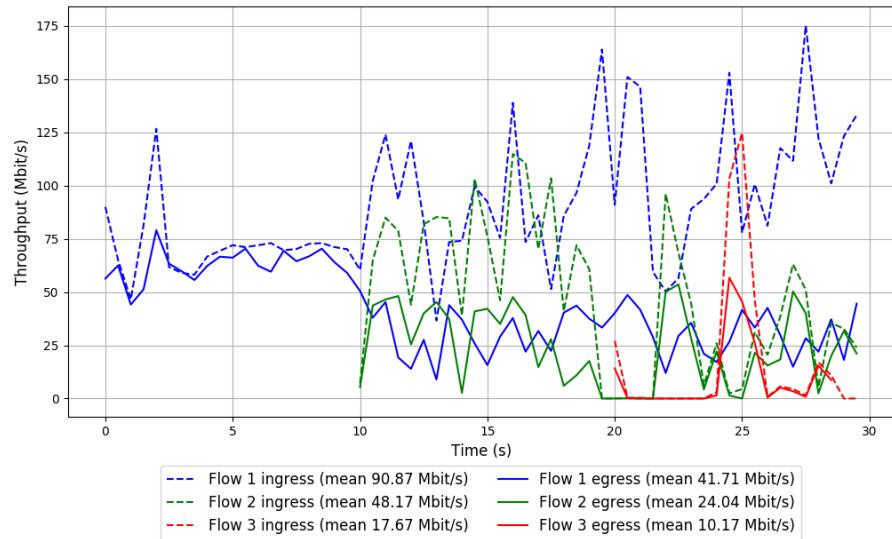


Run 8: Statistics of Verus

```
Start at: 2018-04-24 22:48:01
End at: 2018-04-24 22:48:31
Local clock offset: -14.238 ms
Remote clock offset: -6.535 ms

# Below is generated by plot.py at 2018-04-25 00:24:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.57 Mbit/s
95th percentile per-packet one-way delay: 45.389 ms
Loss rate: 52.84%
-- Flow 1:
Average throughput: 41.71 Mbit/s
95th percentile per-packet one-way delay: 45.100 ms
Loss rate: 54.09%
-- Flow 2:
Average throughput: 24.04 Mbit/s
95th percentile per-packet one-way delay: 45.813 ms
Loss rate: 50.12%
-- Flow 3:
Average throughput: 10.17 Mbit/s
95th percentile per-packet one-way delay: 46.365 ms
Loss rate: 48.45%
```

Run 8: Report of Verus — Data Link

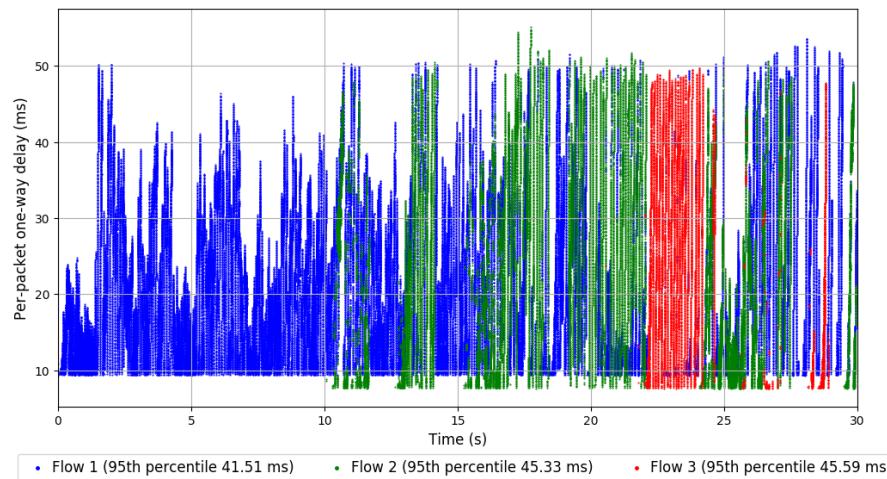
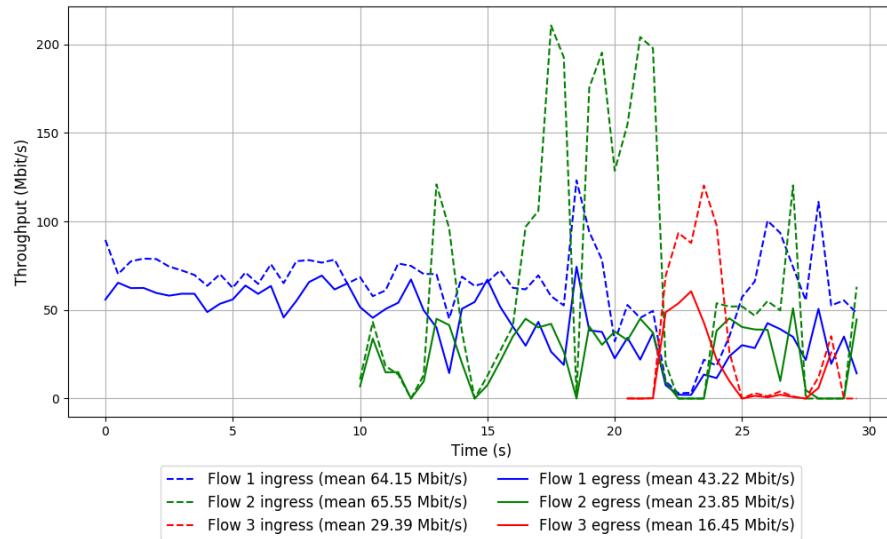


Run 9: Statistics of Verus

```
Start at: 2018-04-24 23:08:05
End at: 2018-04-24 23:08:35
Local clock offset: -16.972 ms
Remote clock offset: -7.072 ms

# Below is generated by plot.py at 2018-04-25 00:24:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.66 Mbit/s
95th percentile per-packet one-way delay: 43.530 ms
Loss rate: 45.54%
-- Flow 1:
Average throughput: 43.22 Mbit/s
95th percentile per-packet one-way delay: 41.507 ms
Loss rate: 32.57%
-- Flow 2:
Average throughput: 23.85 Mbit/s
95th percentile per-packet one-way delay: 45.331 ms
Loss rate: 63.64%
-- Flow 3:
Average throughput: 16.45 Mbit/s
95th percentile per-packet one-way delay: 45.588 ms
Loss rate: 50.12%
```

Run 9: Report of Verus — Data Link

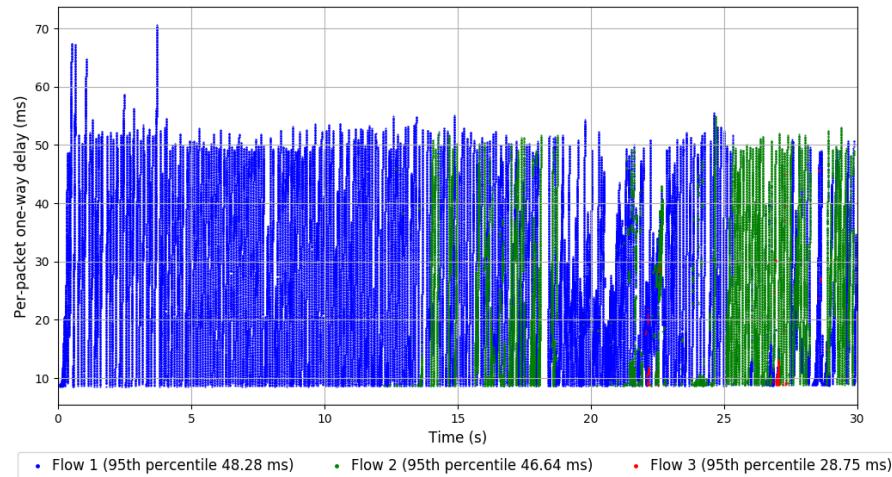
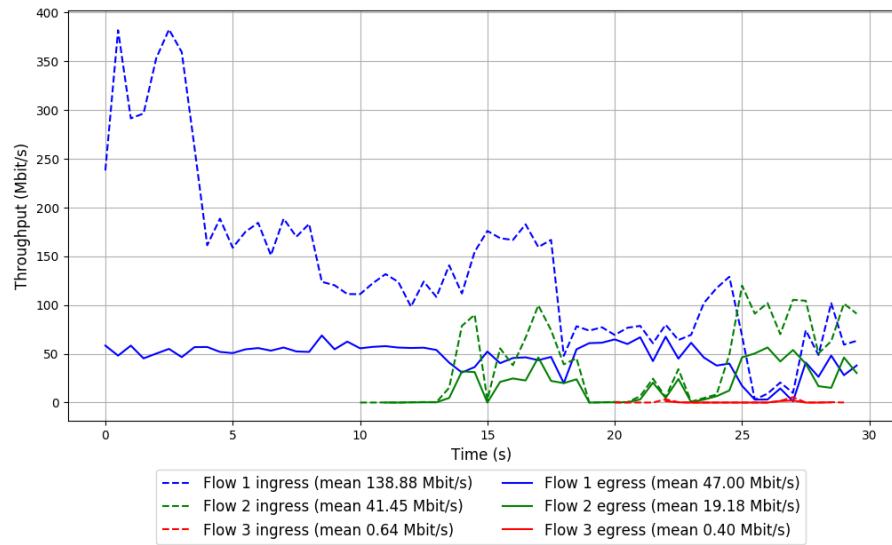


Run 10: Statistics of Verus

```
Start at: 2018-04-24 23:27:58
End at: 2018-04-24 23:28:28
Local clock offset: -7.216 ms
Remote clock offset: -7.481 ms

# Below is generated by plot.py at 2018-04-25 00:24:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.14 Mbit/s
95th percentile per-packet one-way delay: 47.956 ms
Loss rate: 64.45%
-- Flow 1:
Average throughput: 47.00 Mbit/s
95th percentile per-packet one-way delay: 48.279 ms
Loss rate: 66.14%
-- Flow 2:
Average throughput: 19.18 Mbit/s
95th percentile per-packet one-way delay: 46.641 ms
Loss rate: 56.01%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 28.746 ms
Loss rate: 52.36%
```

Run 10: Report of Verus — Data Link

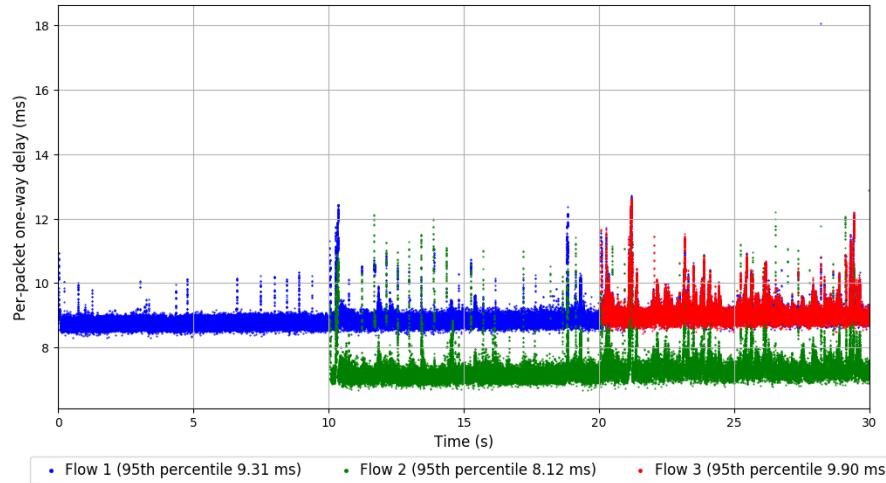
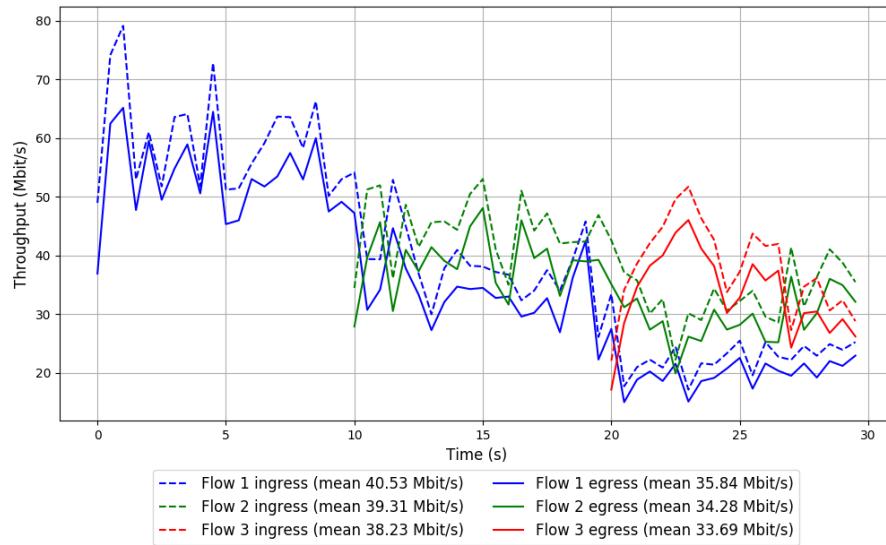


Run 1: Statistics of Copa

```
Start at: 2018-04-24 20:31:38
End at: 2018-04-24 20:32:08
Local clock offset: -0.311 ms
Remote clock offset: -9.72 ms

# Below is generated by plot.py at 2018-04-25 00:24:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.83 Mbit/s
95th percentile per-packet one-way delay: 9.371 ms
Loss rate: 12.03%
-- Flow 1:
Average throughput: 35.84 Mbit/s
95th percentile per-packet one-way delay: 9.306 ms
Loss rate: 11.58%
-- Flow 2:
Average throughput: 34.28 Mbit/s
95th percentile per-packet one-way delay: 8.122 ms
Loss rate: 12.77%
-- Flow 3:
Average throughput: 33.69 Mbit/s
95th percentile per-packet one-way delay: 9.902 ms
Loss rate: 11.92%
```

Run 1: Report of Copa — Data Link

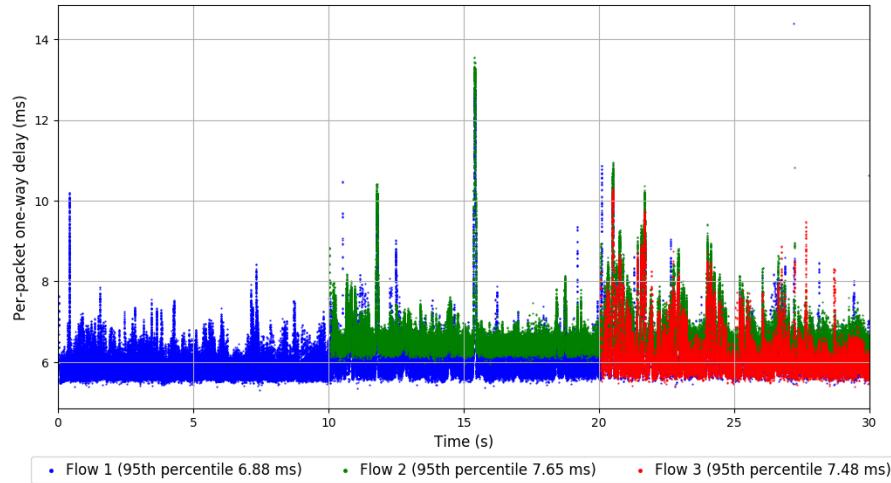
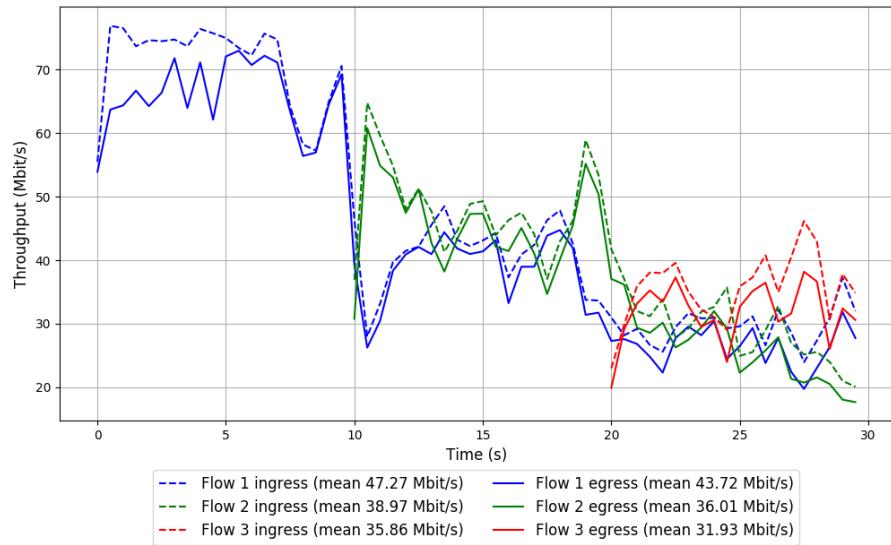


Run 2: Statistics of Copa

```
Start at: 2018-04-24 20:51:17
End at: 2018-04-24 20:51:47
Local clock offset: 3.166 ms
Remote clock offset: -11.185 ms

# Below is generated by plot.py at 2018-04-25 00:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.29 Mbit/s
95th percentile per-packet one-way delay: 7.271 ms
Loss rate: 8.02%
-- Flow 1:
Average throughput: 43.72 Mbit/s
95th percentile per-packet one-way delay: 6.878 ms
Loss rate: 7.51%
-- Flow 2:
Average throughput: 36.01 Mbit/s
95th percentile per-packet one-way delay: 7.651 ms
Loss rate: 7.58%
-- Flow 3:
Average throughput: 31.93 Mbit/s
95th percentile per-packet one-way delay: 7.483 ms
Loss rate: 10.98%
```

Run 2: Report of Copa — Data Link

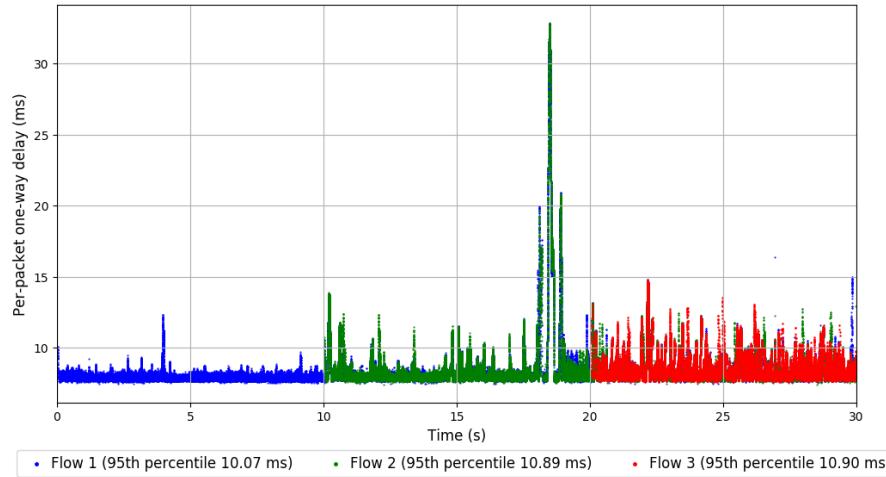
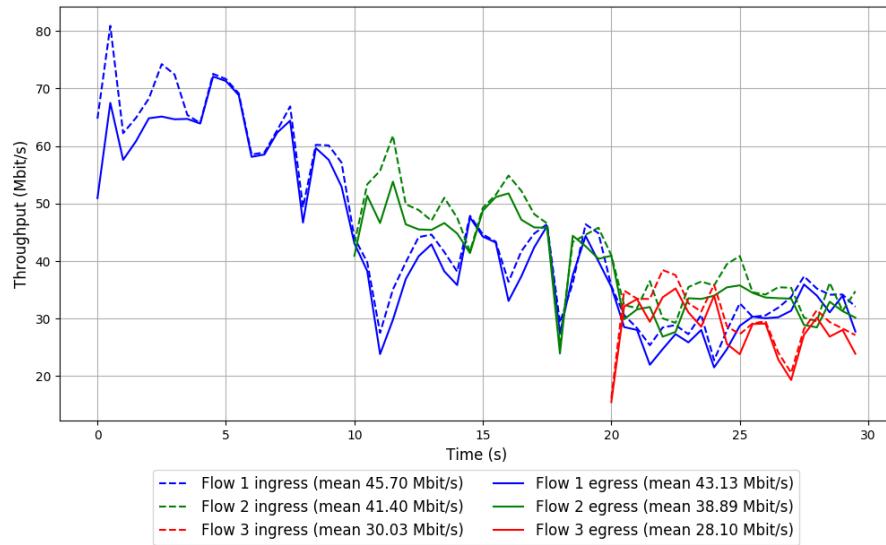


Run 3: Statistics of Copa

```
Start at: 2018-04-24 21:10:55
End at: 2018-04-24 21:11:25
Local clock offset: 0.944 ms
Remote clock offset: -10.678 ms

# Below is generated by plot.py at 2018-04-25 00:25:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.36 Mbit/s
95th percentile per-packet one-way delay: 10.545 ms
Loss rate: 5.85%
-- Flow 1:
Average throughput: 43.13 Mbit/s
95th percentile per-packet one-way delay: 10.067 ms
Loss rate: 5.62%
-- Flow 2:
Average throughput: 38.89 Mbit/s
95th percentile per-packet one-way delay: 10.890 ms
Loss rate: 6.03%
-- Flow 3:
Average throughput: 28.10 Mbit/s
95th percentile per-packet one-way delay: 10.901 ms
Loss rate: 6.44%
```

Run 3: Report of Copa — Data Link

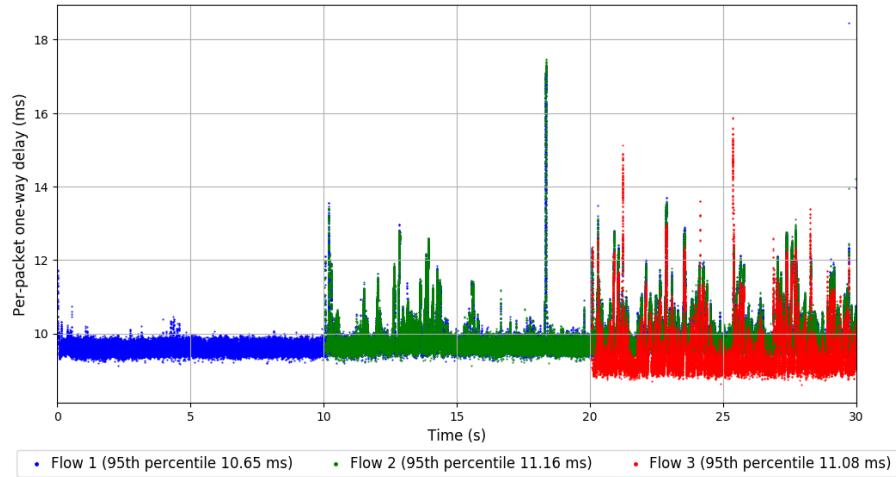
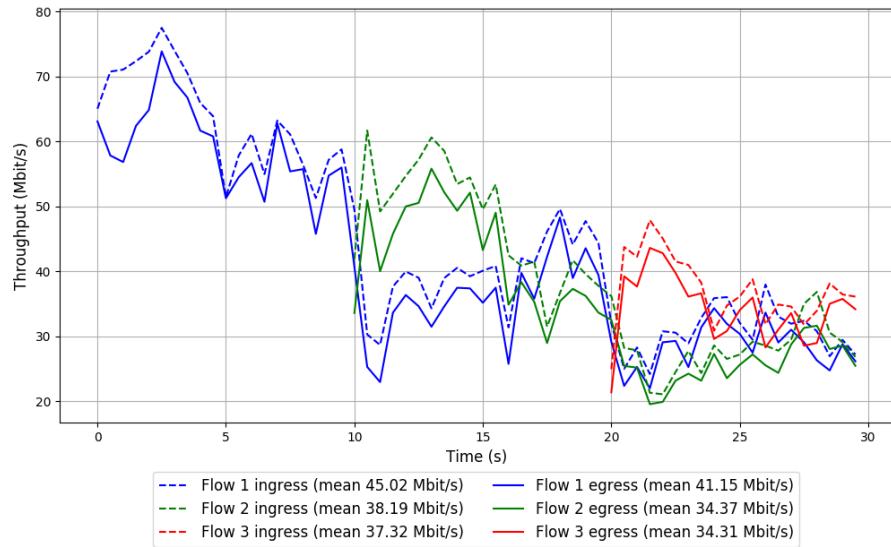


Run 4: Statistics of Copa

```
Start at: 2018-04-24 21:30:24
End at: 2018-04-24 21:30:54
Local clock offset: -0.521 ms
Remote clock offset: -11.411 ms

# Below is generated by plot.py at 2018-04-25 00:25:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.43 Mbit/s
95th percentile per-packet one-way delay: 10.918 ms
Loss rate: 8.93%
-- Flow 1:
Average throughput: 41.15 Mbit/s
95th percentile per-packet one-way delay: 10.651 ms
Loss rate: 8.57%
-- Flow 2:
Average throughput: 34.37 Mbit/s
95th percentile per-packet one-way delay: 11.156 ms
Loss rate: 10.00%
-- Flow 3:
Average throughput: 34.31 Mbit/s
95th percentile per-packet one-way delay: 11.078 ms
Loss rate: 8.08%
```

Run 4: Report of Copa — Data Link

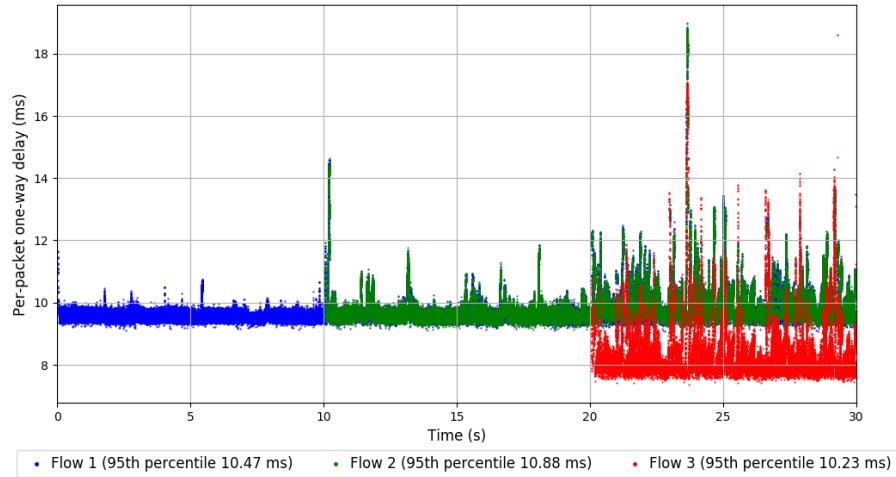
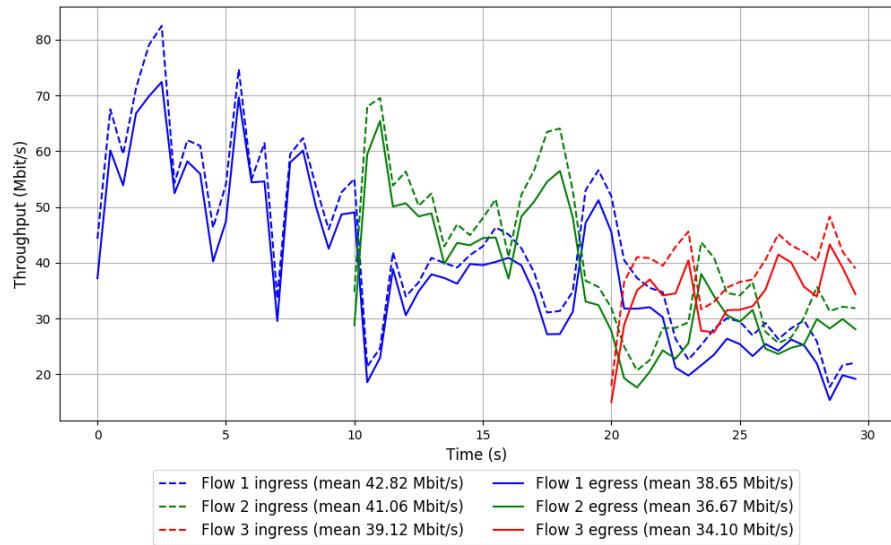


Run 5: Statistics of Copa

```
Start at: 2018-04-24 21:49:58
End at: 2018-04-24 21:50:28
Local clock offset: 0.483 ms
Remote clock offset: -3.369 ms

# Below is generated by plot.py at 2018-04-25 00:26:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.40 Mbit/s
95th percentile per-packet one-way delay: 10.603 ms
Loss rate: 10.52%
-- Flow 1:
Average throughput: 38.65 Mbit/s
95th percentile per-packet one-way delay: 10.473 ms
Loss rate: 9.74%
-- Flow 2:
Average throughput: 36.67 Mbit/s
95th percentile per-packet one-way delay: 10.884 ms
Loss rate: 10.68%
-- Flow 3:
Average throughput: 34.10 Mbit/s
95th percentile per-packet one-way delay: 10.226 ms
Loss rate: 12.79%
```

Run 5: Report of Copa — Data Link

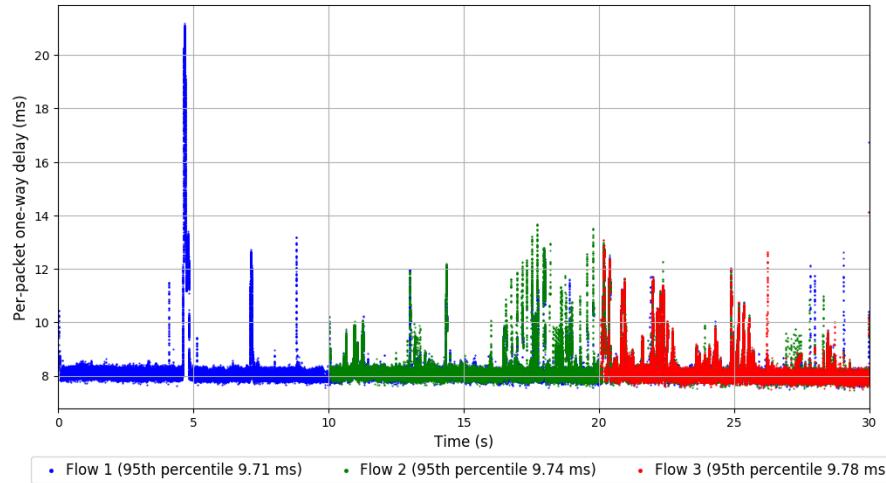
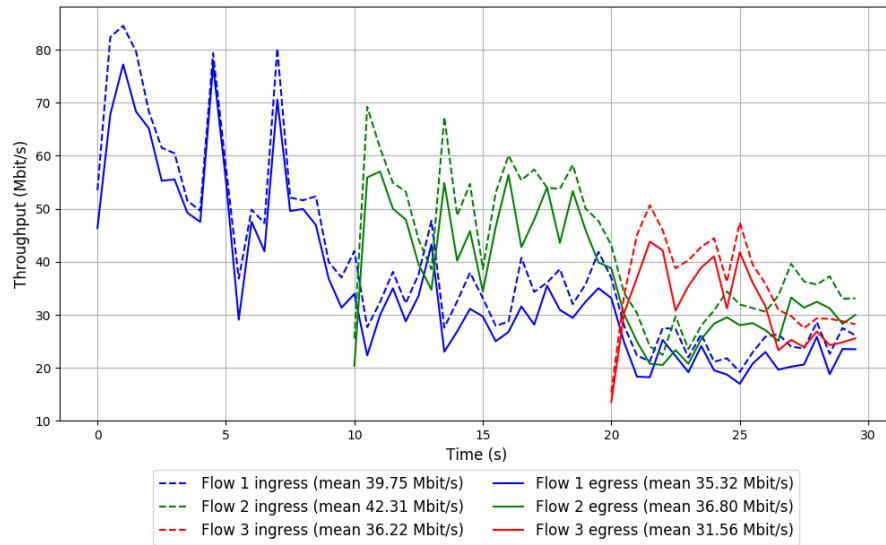


Run 6: Statistics of Copa

```
Start at: 2018-04-24 22:09:35
End at: 2018-04-24 22:10:05
Local clock offset: -2.012 ms
Remote clock offset: -3.224 ms

# Below is generated by plot.py at 2018-04-25 00:26:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.29 Mbit/s
95th percentile per-packet one-way delay: 9.739 ms
Loss rate: 12.04%
-- Flow 1:
Average throughput: 35.32 Mbit/s
95th percentile per-packet one-way delay: 9.713 ms
Loss rate: 11.11%
-- Flow 2:
Average throughput: 36.80 Mbit/s
95th percentile per-packet one-way delay: 9.740 ms
Loss rate: 13.03%
-- Flow 3:
Average throughput: 31.56 Mbit/s
95th percentile per-packet one-way delay: 9.778 ms
Loss rate: 12.81%
```

Run 6: Report of Copa — Data Link

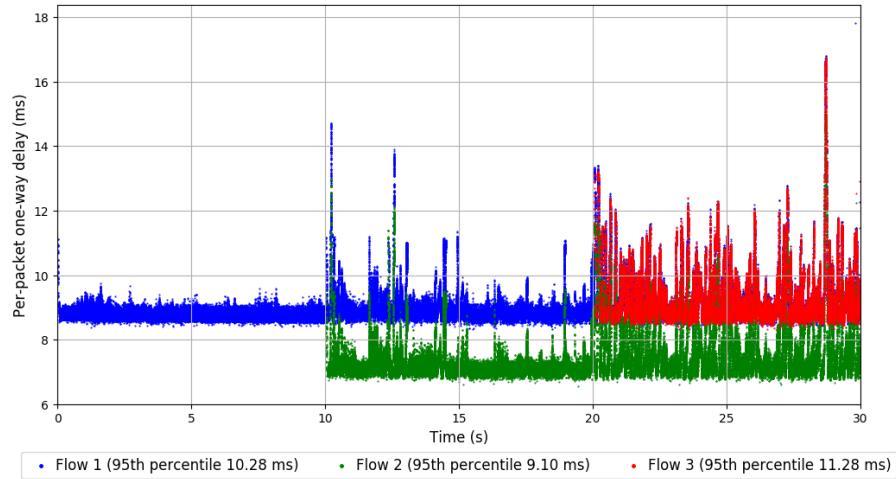
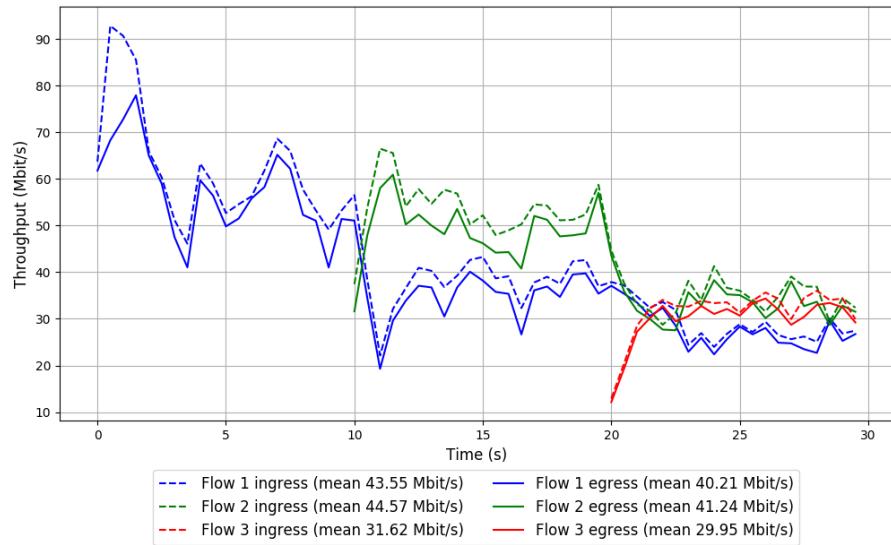


Run 7: Statistics of Copa

```
Start at: 2018-04-24 22:29:26
End at: 2018-04-24 22:29:56
Local clock offset: -10.701 ms
Remote clock offset: -7.255 ms

# Below is generated by plot.py at 2018-04-25 00:26:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.61 Mbit/s
95th percentile per-packet one-way delay: 10.299 ms
Loss rate: 7.28%
-- Flow 1:
Average throughput: 40.21 Mbit/s
95th percentile per-packet one-way delay: 10.277 ms
Loss rate: 7.65%
-- Flow 2:
Average throughput: 41.24 Mbit/s
95th percentile per-packet one-way delay: 9.104 ms
Loss rate: 7.44%
-- Flow 3:
Average throughput: 29.95 Mbit/s
95th percentile per-packet one-way delay: 11.282 ms
Loss rate: 5.27%
```

Run 7: Report of Copa — Data Link

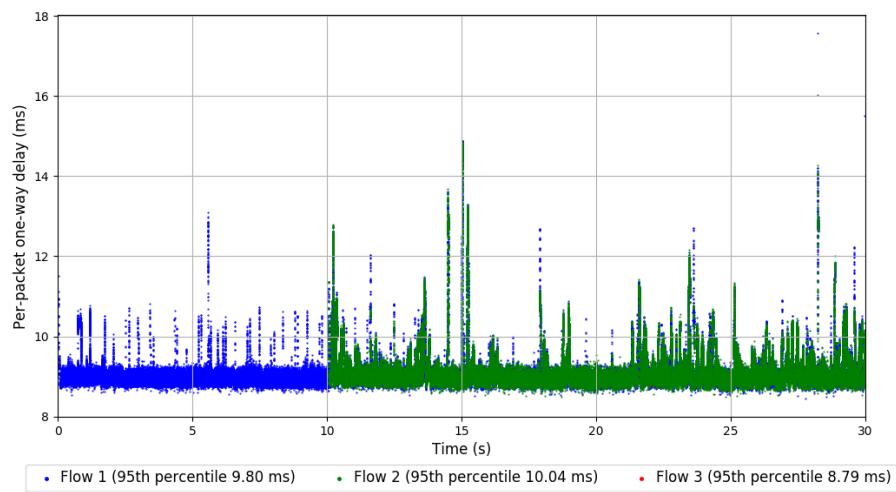
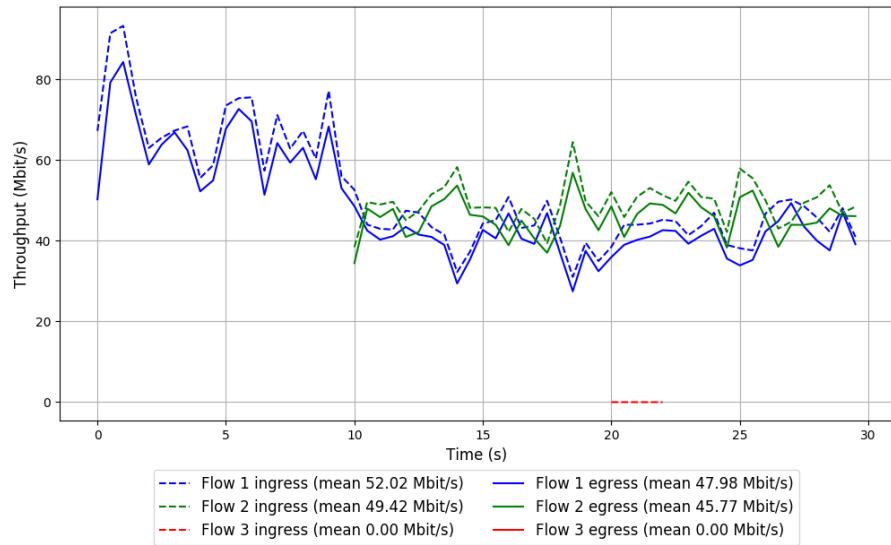


Run 8: Statistics of Copa

```
Start at: 2018-04-24 22:49:12
End at: 2018-04-24 22:49:42
Local clock offset: -15.518 ms
Remote clock offset: -7.124 ms

# Below is generated by plot.py at 2018-04-25 00:26:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.45 Mbit/s
95th percentile per-packet one-way delay: 9.904 ms
Loss rate: 7.61%
-- Flow 1:
Average throughput: 47.98 Mbit/s
95th percentile per-packet one-way delay: 9.804 ms
Loss rate: 7.74%
-- Flow 2:
Average throughput: 45.77 Mbit/s
95th percentile per-packet one-way delay: 10.040 ms
Loss rate: 7.40%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 8.788 ms
Loss rate: 50.00%
```

Run 8: Report of Copa — Data Link

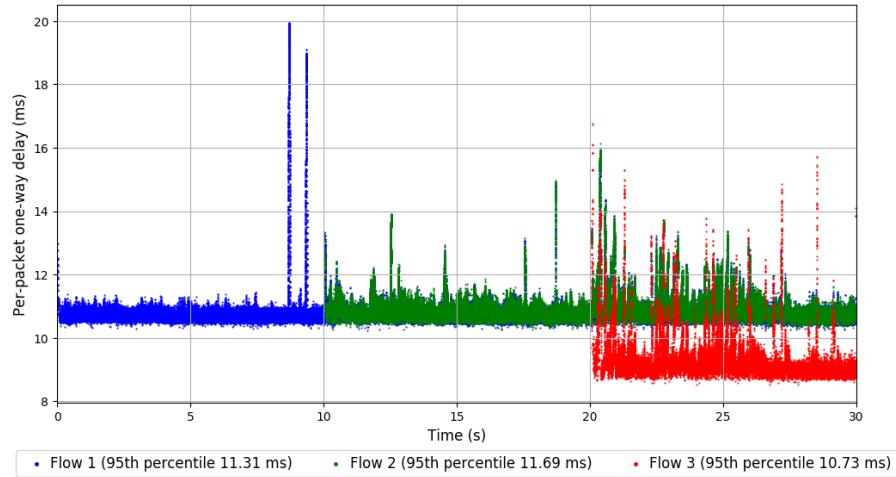
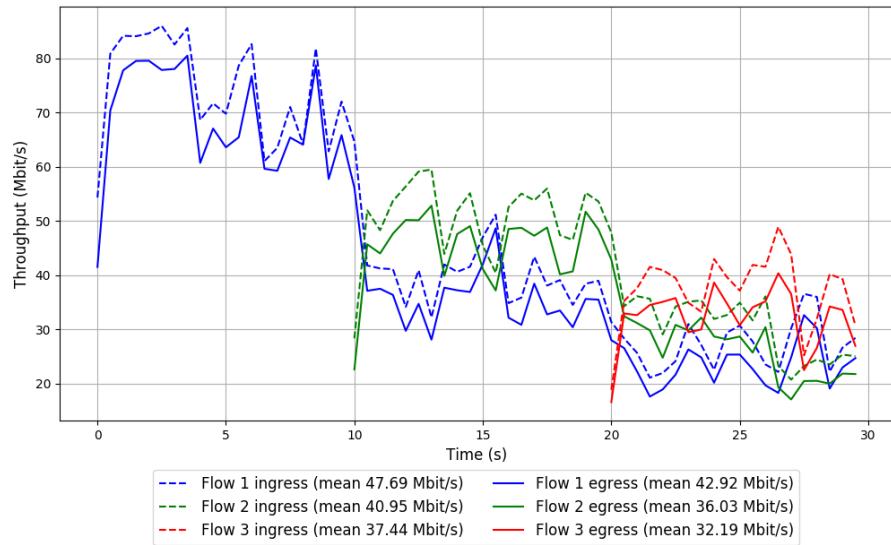


Run 9: Statistics of Copa

```
Start at: 2018-04-24 23:09:18
End at: 2018-04-24 23:09:48
Local clock offset: -17.185 ms
Remote clock offset: -6.133 ms

# Below is generated by plot.py at 2018-04-25 00:27:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.61 Mbit/s
95th percentile per-packet one-way delay: 11.423 ms
Loss rate: 11.19%
-- Flow 1:
Average throughput: 42.92 Mbit/s
95th percentile per-packet one-way delay: 11.309 ms
Loss rate: 10.00%
-- Flow 2:
Average throughput: 36.03 Mbit/s
95th percentile per-packet one-way delay: 11.690 ms
Loss rate: 12.00%
-- Flow 3:
Average throughput: 32.19 Mbit/s
95th percentile per-packet one-way delay: 10.728 ms
Loss rate: 13.97%
```

Run 9: Report of Copa — Data Link

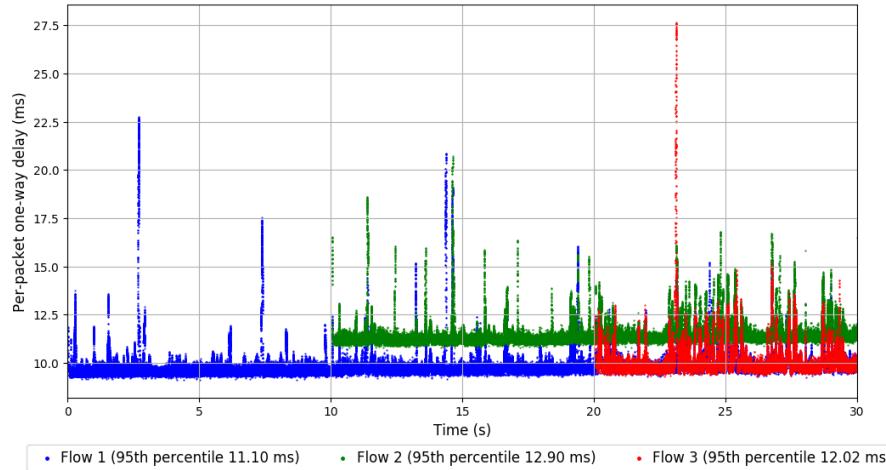
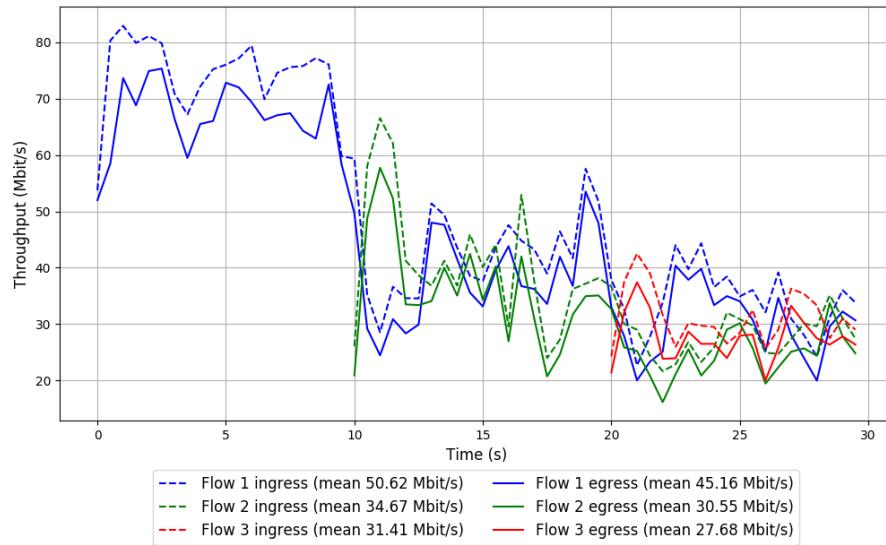


Run 10: Statistics of Copa

```
Start at: 2018-04-24 23:29:09
End at: 2018-04-24 23:29:39
Local clock offset: -7.325 ms
Remote clock offset: -7.432 ms

# Below is generated by plot.py at 2018-04-25 00:27:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.68 Mbit/s
95th percentile per-packet one-way delay: 12.081 ms
Loss rate: 11.23%
-- Flow 1:
Average throughput: 45.16 Mbit/s
95th percentile per-packet one-way delay: 11.098 ms
Loss rate: 10.79%
-- Flow 2:
Average throughput: 30.55 Mbit/s
95th percentile per-packet one-way delay: 12.896 ms
Loss rate: 11.88%
-- Flow 3:
Average throughput: 27.68 Mbit/s
95th percentile per-packet one-way delay: 12.024 ms
Loss rate: 11.89%
```

Run 10: Report of Copa — Data Link

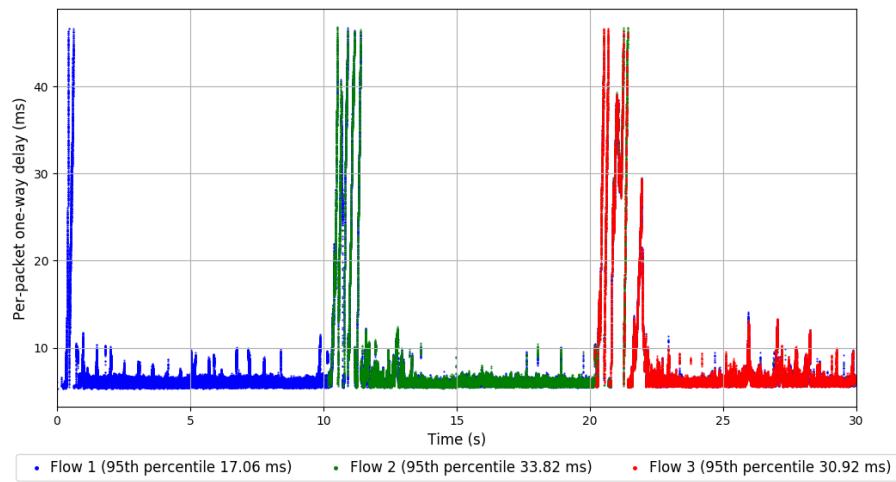
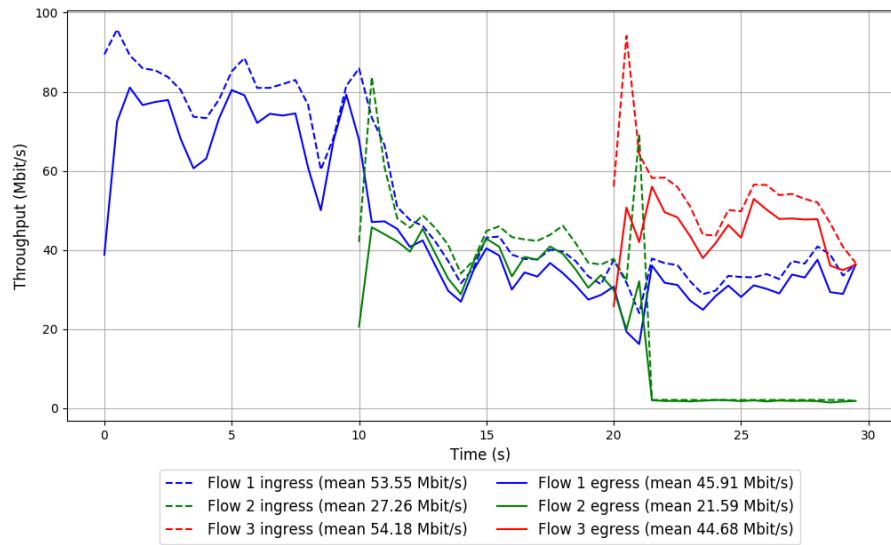


```
Run 1: Statistics of FillP

Start at: 2018-04-24 20:29:11
End at: 2018-04-24 20:29:41
Local clock offset: -0.289 ms
Remote clock offset: -10.216 ms

# Below is generated by plot.py at 2018-04-25 00:27:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.10 Mbit/s
95th percentile per-packet one-way delay: 26.931 ms
Loss rate: 16.24%
-- Flow 1:
Average throughput: 45.91 Mbit/s
95th percentile per-packet one-way delay: 17.060 ms
Loss rate: 14.26%
-- Flow 2:
Average throughput: 21.59 Mbit/s
95th percentile per-packet one-way delay: 33.822 ms
Loss rate: 20.77%
-- Flow 3:
Average throughput: 44.68 Mbit/s
95th percentile per-packet one-way delay: 30.916 ms
Loss rate: 17.55%
```

Run 1: Report of FillP — Data Link

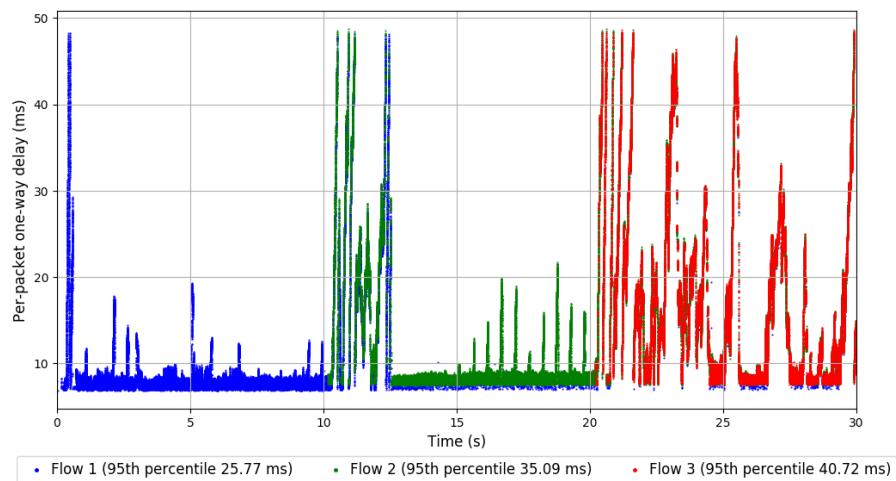
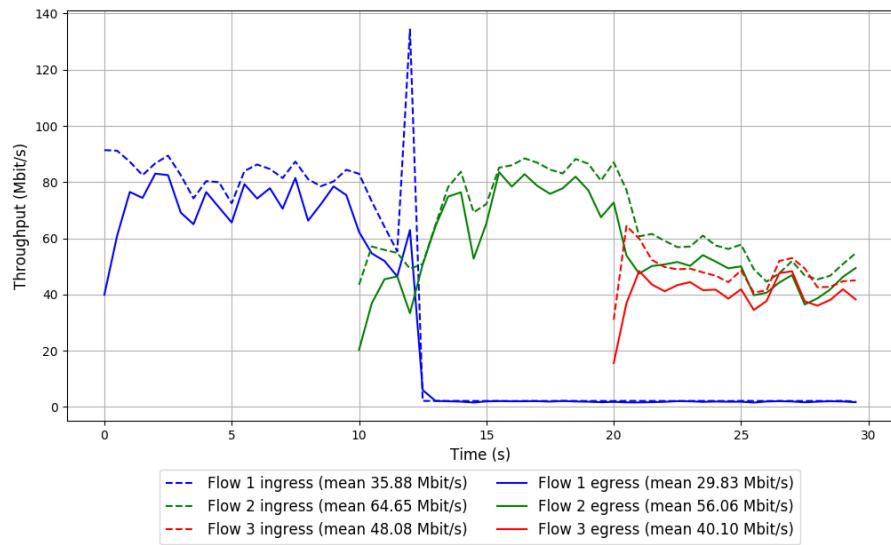


Run 2: Statistics of FillP

```
Start at: 2018-04-24 20:48:57
End at: 2018-04-24 20:49:27
Local clock offset: 1.326 ms
Remote clock offset: -11.361 ms

# Below is generated by plot.py at 2018-04-25 00:27:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.44 Mbit/s
95th percentile per-packet one-way delay: 34.671 ms
Loss rate: 15.17%
-- Flow 1:
Average throughput: 29.83 Mbit/s
95th percentile per-packet one-way delay: 25.773 ms
Loss rate: 16.85%
-- Flow 2:
Average throughput: 56.06 Mbit/s
95th percentile per-packet one-way delay: 35.094 ms
Loss rate: 13.27%
-- Flow 3:
Average throughput: 40.10 Mbit/s
95th percentile per-packet one-way delay: 40.715 ms
Loss rate: 16.53%
```

Run 2: Report of FillP — Data Link

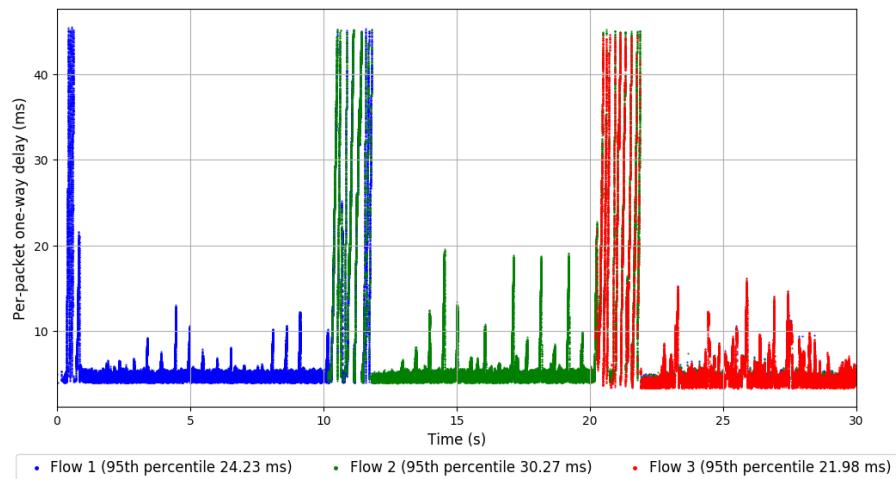
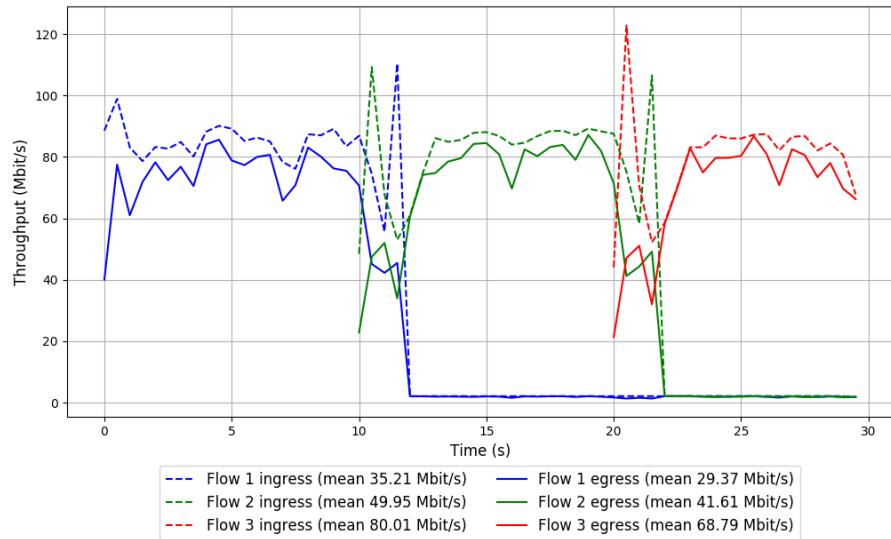


Run 3: Statistics of FillP

```
Start at: 2018-04-24 21:08:35
End at: 2018-04-24 21:09:05
Local clock offset: 5.301 ms
Remote clock offset: -10.608 ms

# Below is generated by plot.py at 2018-04-25 00:27:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.86 Mbit/s
95th percentile per-packet one-way delay: 26.100 ms
Loss rate: 15.91%
-- Flow 1:
Average throughput: 29.37 Mbit/s
95th percentile per-packet one-way delay: 24.230 ms
Loss rate: 16.59%
-- Flow 2:
Average throughput: 41.61 Mbit/s
95th percentile per-packet one-way delay: 30.266 ms
Loss rate: 16.70%
-- Flow 3:
Average throughput: 68.79 Mbit/s
95th percentile per-packet one-way delay: 21.980 ms
Loss rate: 14.02%
```

Run 3: Report of FillP — Data Link

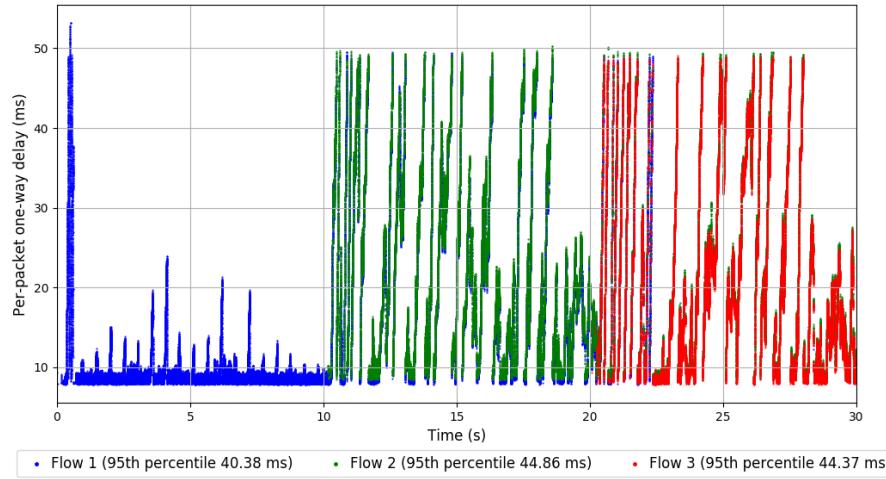
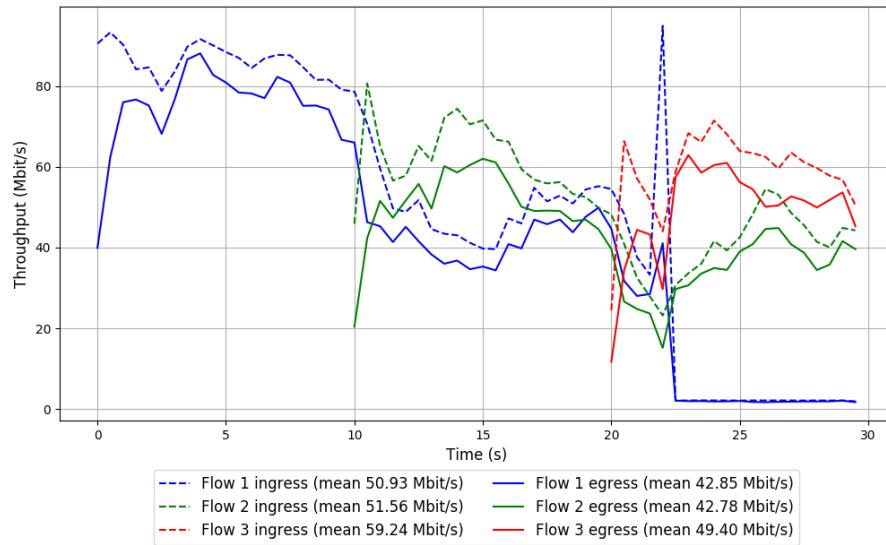


Run 4: Statistics of FillP

```
Start at: 2018-04-24 21:28:06
End at: 2018-04-24 21:28:36
Local clock offset: -0.327 ms
Remote clock offset: -12.0 ms

# Below is generated by plot.py at 2018-04-25 00:27:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.69 Mbit/s
95th percentile per-packet one-way delay: 43.463 ms
Loss rate: 16.38%
-- Flow 1:
Average throughput: 42.85 Mbit/s
95th percentile per-packet one-way delay: 40.385 ms
Loss rate: 15.86%
-- Flow 2:
Average throughput: 42.78 Mbit/s
95th percentile per-packet one-way delay: 44.859 ms
Loss rate: 17.01%
-- Flow 3:
Average throughput: 49.40 Mbit/s
95th percentile per-packet one-way delay: 44.365 ms
Loss rate: 16.63%
```

Run 4: Report of FillP — Data Link

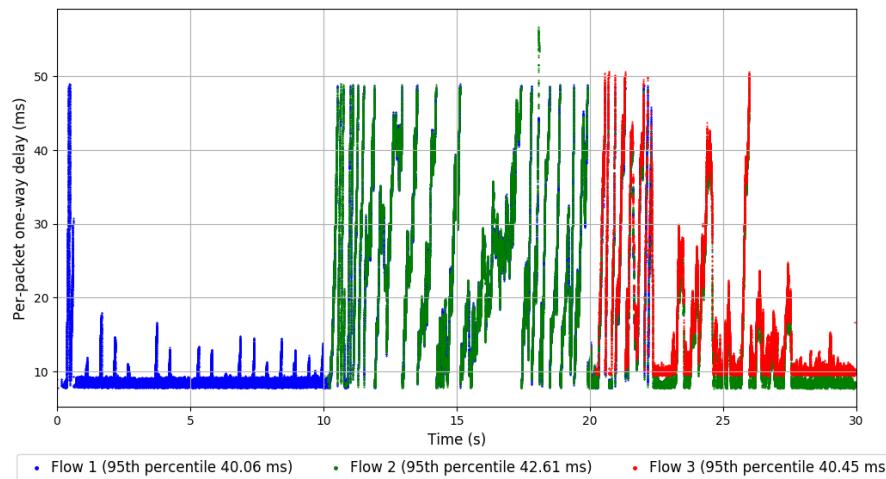
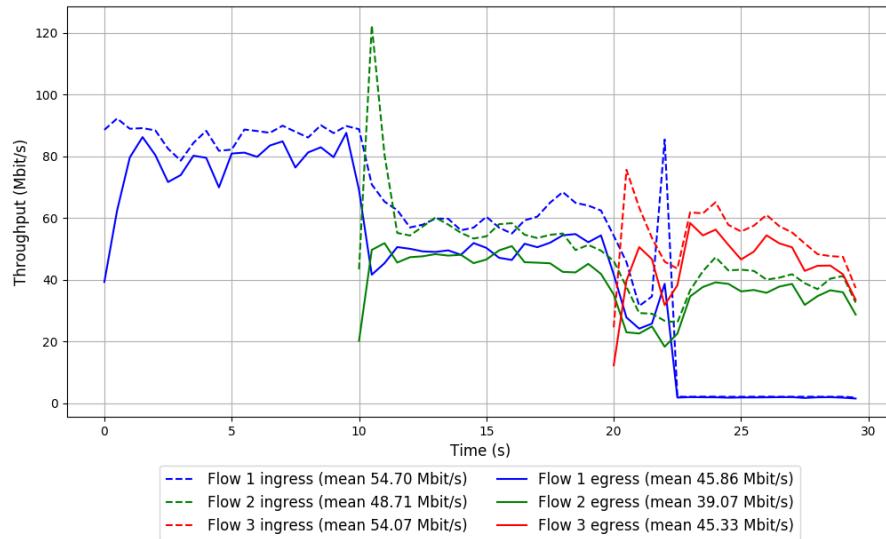


Run 5: Statistics of FillP

```
Start at: 2018-04-24 21:47:38
End at: 2018-04-24 21:48:08
Local clock offset: -0.262 ms
Remote clock offset: -4.398 ms

# Below is generated by plot.py at 2018-04-25 00:27:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.85 Mbit/s
95th percentile per-packet one-way delay: 41.117 ms
Loss rate: 17.29%
-- Flow 1:
Average throughput: 45.86 Mbit/s
95th percentile per-packet one-way delay: 40.060 ms
Loss rate: 16.17%
-- Flow 2:
Average throughput: 39.07 Mbit/s
95th percentile per-packet one-way delay: 42.611 ms
Loss rate: 19.80%
-- Flow 3:
Average throughput: 45.33 Mbit/s
95th percentile per-packet one-way delay: 40.452 ms
Loss rate: 16.13%
```

Run 5: Report of FillP — Data Link

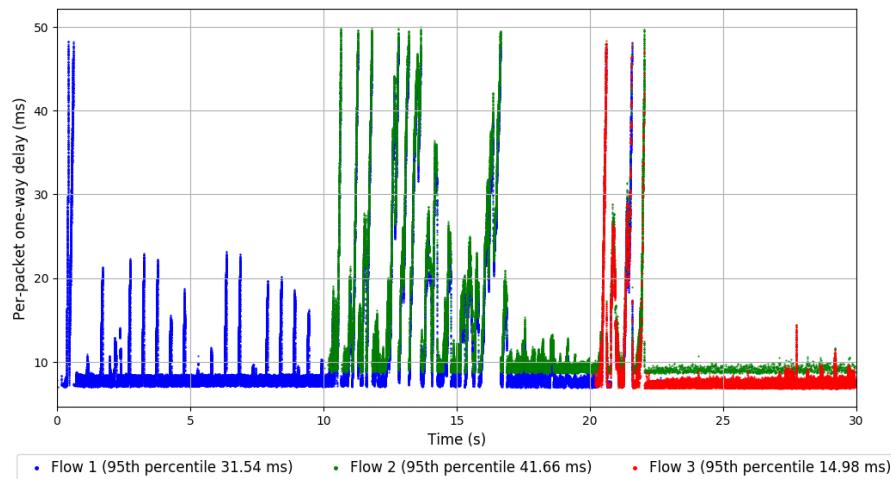
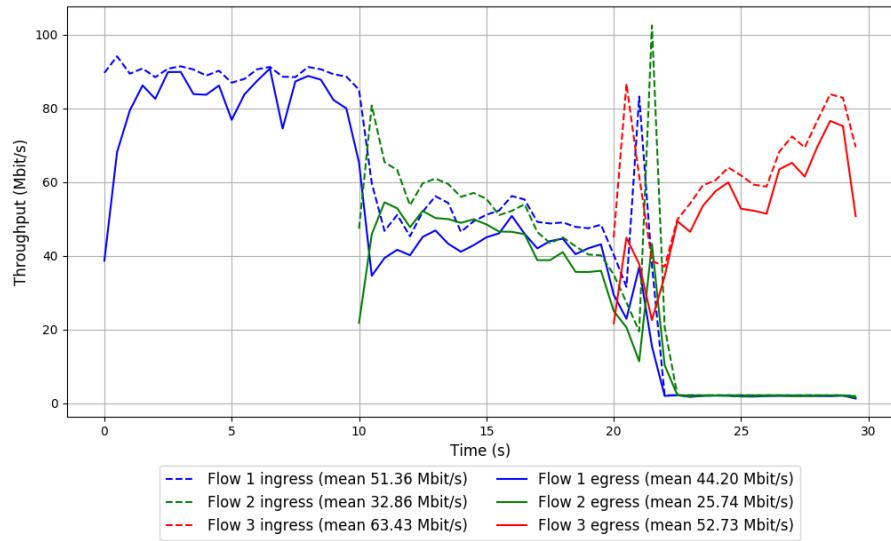


Run 6: Statistics of FillP

```
Start at: 2018-04-24 22:07:16
End at: 2018-04-24 22:07:46
Local clock offset: 0.628 ms
Remote clock offset: -2.62 ms

# Below is generated by plot.py at 2018-04-25 00:27:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.81 Mbit/s
95th percentile per-packet one-way delay: 33.924 ms
Loss rate: 16.39%
-- Flow 1:
Average throughput: 44.20 Mbit/s
95th percentile per-packet one-way delay: 31.542 ms
Loss rate: 13.94%
-- Flow 2:
Average throughput: 25.74 Mbit/s
95th percentile per-packet one-way delay: 41.658 ms
Loss rate: 21.68%
-- Flow 3:
Average throughput: 52.73 Mbit/s
95th percentile per-packet one-way delay: 14.977 ms
Loss rate: 16.87%
```

Run 6: Report of FillP — Data Link

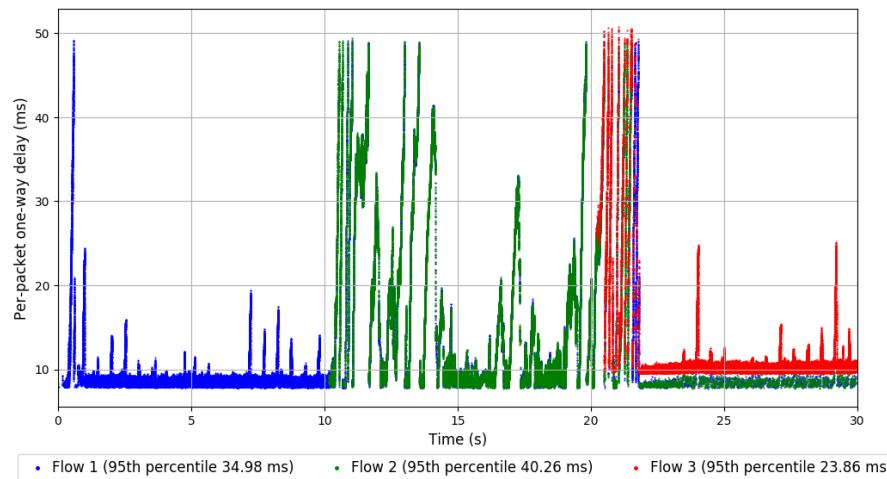
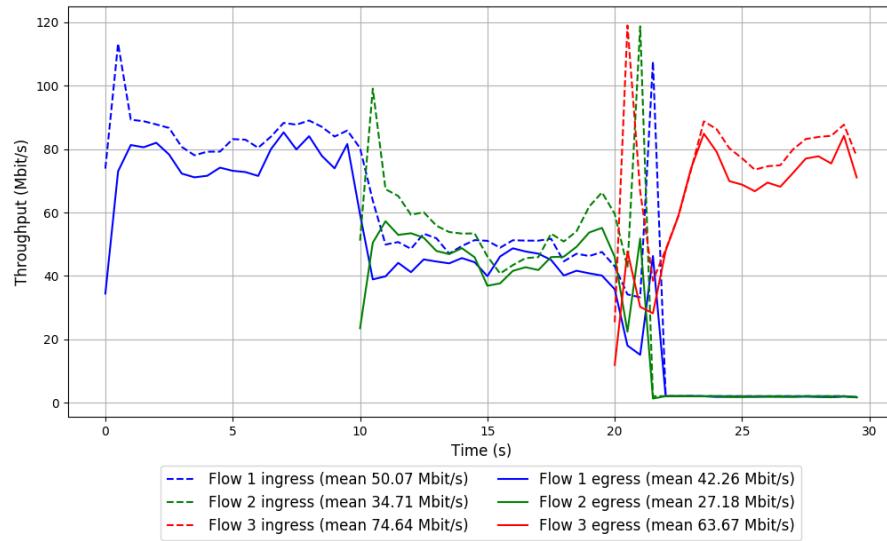


Run 7: Statistics of FillP

```
Start at: 2018-04-24 22:27:02
End at: 2018-04-24 22:27:32
Local clock offset: -10.216 ms
Remote clock offset: -6.193 ms

# Below is generated by plot.py at 2018-04-25 00:28:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.45 Mbit/s
95th percentile per-packet one-way delay: 36.241 ms
Loss rate: 16.82%
-- Flow 1:
Average throughput: 42.26 Mbit/s
95th percentile per-packet one-way delay: 34.975 ms
Loss rate: 15.60%
-- Flow 2:
Average throughput: 27.18 Mbit/s
95th percentile per-packet one-way delay: 40.259 ms
Loss rate: 21.70%
-- Flow 3:
Average throughput: 63.67 Mbit/s
95th percentile per-packet one-way delay: 23.862 ms
Loss rate: 14.72%
```

Run 7: Report of FillP — Data Link

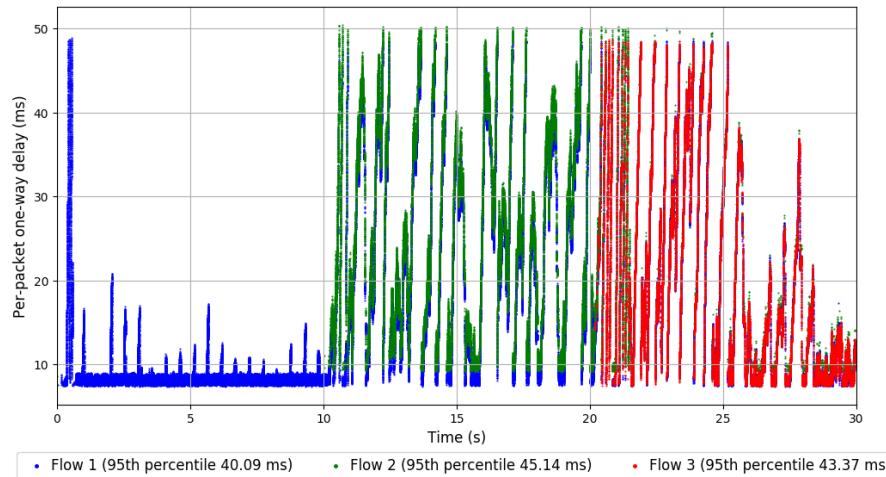
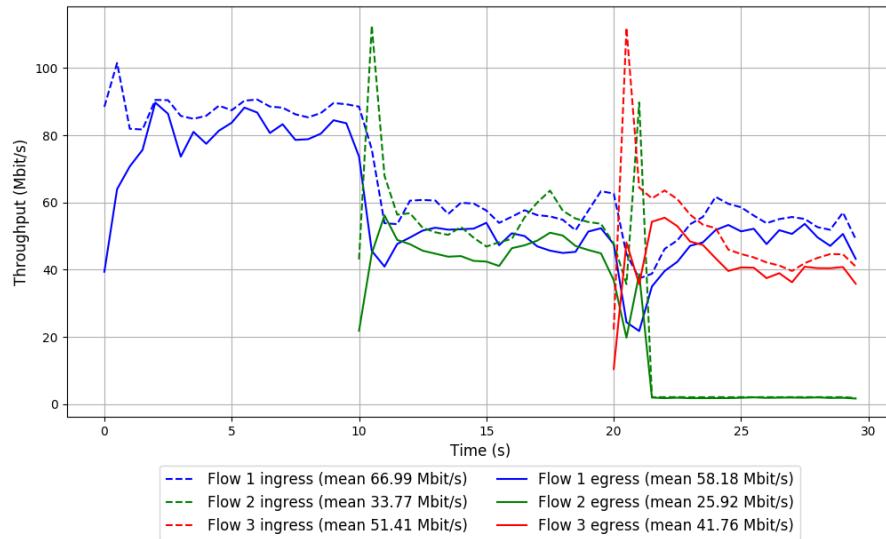


Run 8: Statistics of FillP

```
Start at: 2018-04-24 22:46:52
End at: 2018-04-24 22:47:22
Local clock offset: -13.834 ms
Remote clock offset: -7.005 ms

# Below is generated by plot.py at 2018-04-25 00:28:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.26 Mbit/s
95th percentile per-packet one-way delay: 42.294 ms
Loss rate: 16.17%
-- Flow 1:
Average throughput: 58.18 Mbit/s
95th percentile per-packet one-way delay: 40.087 ms
Loss rate: 13.14%
-- Flow 2:
Average throughput: 25.92 Mbit/s
95th percentile per-packet one-way delay: 45.137 ms
Loss rate: 23.26%
-- Flow 3:
Average throughput: 41.76 Mbit/s
95th percentile per-packet one-way delay: 43.373 ms
Loss rate: 18.77%
```

Run 8: Report of FillP — Data Link

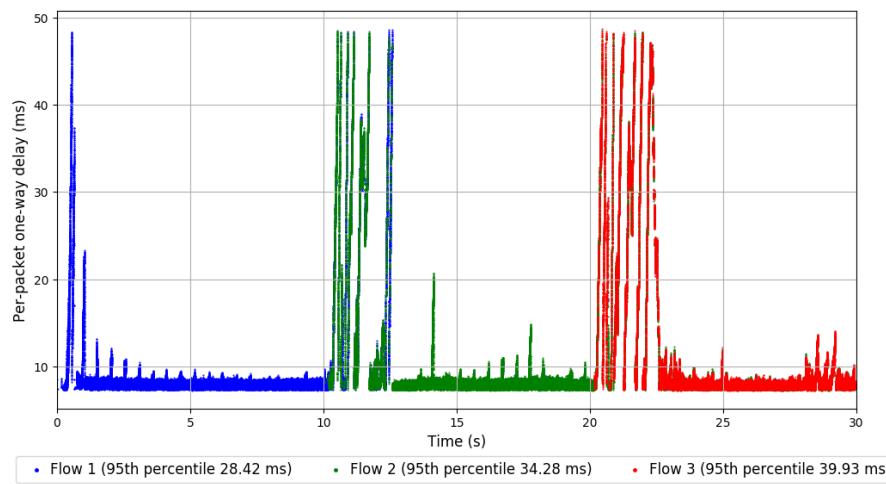
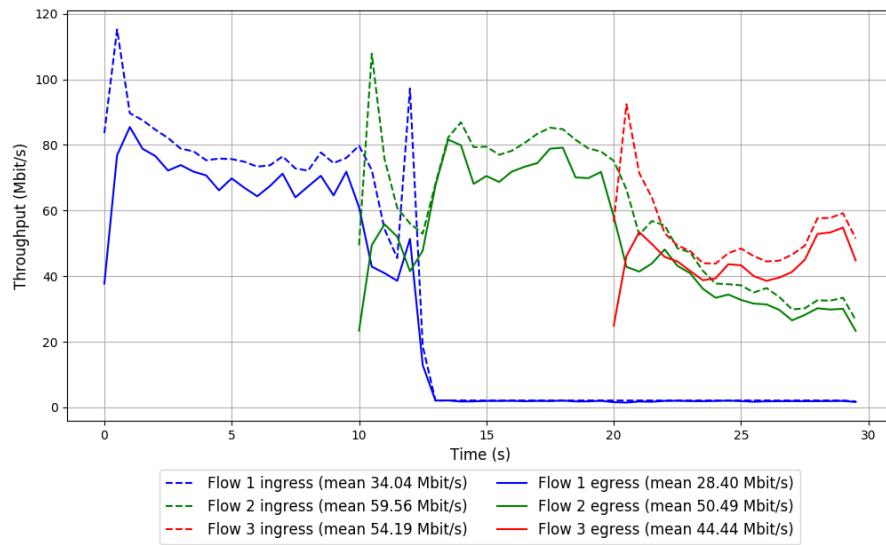


Run 9: Statistics of FillP

```
Start at: 2018-04-24 23:06:54
End at: 2018-04-24 23:07:24
Local clock offset: -16.583 ms
Remote clock offset: -7.201 ms

# Below is generated by plot.py at 2018-04-25 00:28:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.74 Mbit/s
95th percentile per-packet one-way delay: 33.937 ms
Loss rate: 16.27%
-- Flow 1:
Average throughput: 28.40 Mbit/s
95th percentile per-packet one-way delay: 28.417 ms
Loss rate: 16.56%
-- Flow 2:
Average throughput: 50.49 Mbit/s
95th percentile per-packet one-way delay: 34.285 ms
Loss rate: 15.23%
-- Flow 3:
Average throughput: 44.44 Mbit/s
95th percentile per-packet one-way delay: 39.926 ms
Loss rate: 18.00%
```

Run 9: Report of FillP — Data Link

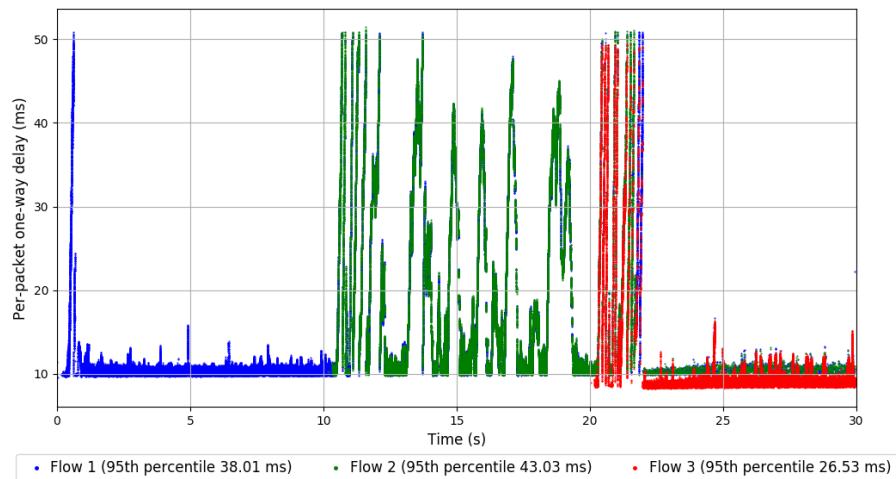
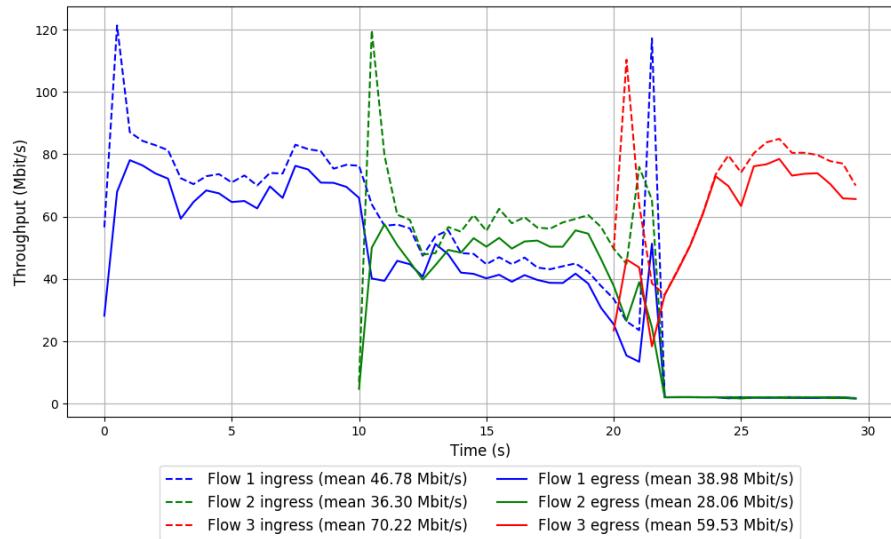


Run 10: Statistics of FillP

```
Start at: 2018-04-24 23:26:48
End at: 2018-04-24 23:27:18
Local clock offset: -7.072 ms
Remote clock offset: -7.167 ms

# Below is generated by plot.py at 2018-04-25 00:28:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.38 Mbit/s
95th percentile per-packet one-way delay: 39.199 ms
Loss rate: 17.84%
-- Flow 1:
Average throughput: 38.98 Mbit/s
95th percentile per-packet one-way delay: 38.012 ms
Loss rate: 16.63%
-- Flow 2:
Average throughput: 28.06 Mbit/s
95th percentile per-packet one-way delay: 43.030 ms
Loss rate: 22.70%
-- Flow 3:
Average throughput: 59.53 Mbit/s
95th percentile per-packet one-way delay: 26.527 ms
Loss rate: 15.23%
```

Run 10: Report of FillP — Data Link

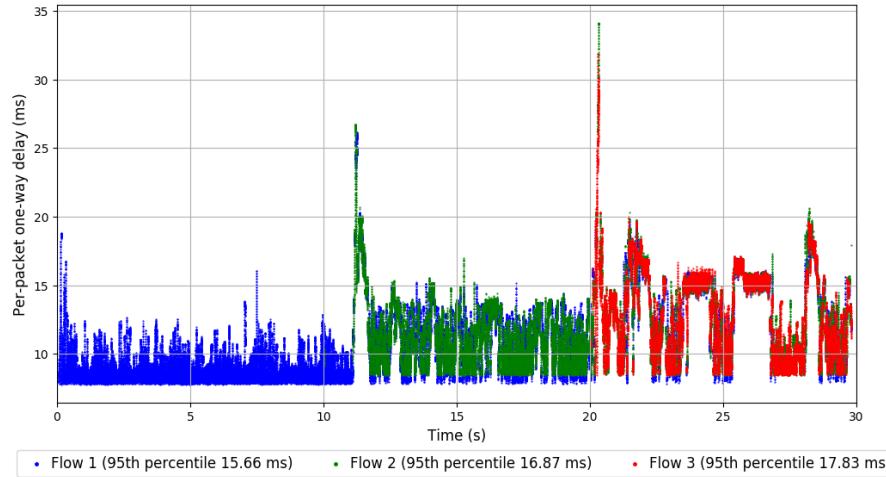
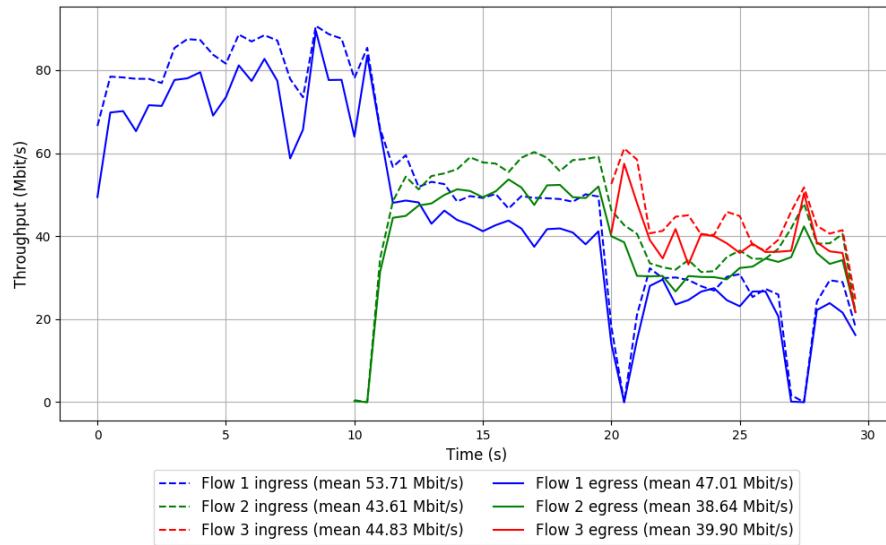


Run 1: Statistics of Indigo-1-32

```
Start at: 2018-04-24 20:46:28
End at: 2018-04-24 20:46:58
Local clock offset: 1.152 ms
Remote clock offset: -10.286 ms

# Below is generated by plot.py at 2018-04-25 00:28:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.71 Mbit/s
95th percentile per-packet one-way delay: 16.676 ms
Loss rate: 11.91%
-- Flow 1:
Average throughput: 47.01 Mbit/s
95th percentile per-packet one-way delay: 15.665 ms
Loss rate: 12.46%
-- Flow 2:
Average throughput: 38.64 Mbit/s
95th percentile per-packet one-way delay: 16.873 ms
Loss rate: 11.36%
-- Flow 3:
Average throughput: 39.90 Mbit/s
95th percentile per-packet one-way delay: 17.833 ms
Loss rate: 10.98%
```

Run 1: Report of Indigo-1-32 — Data Link

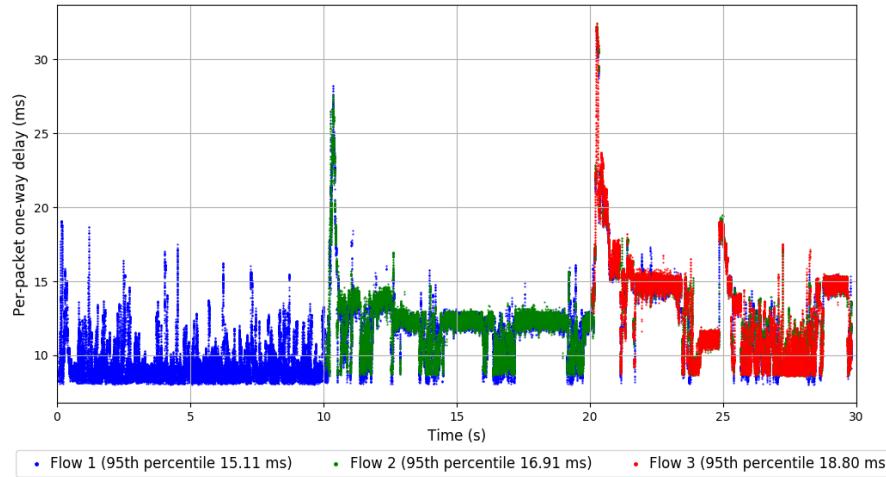
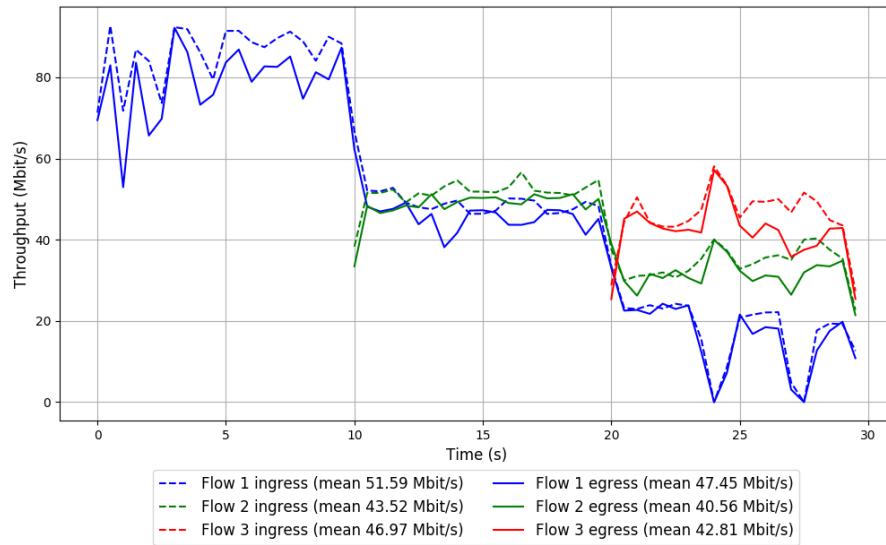


Run 2: Statistics of Indigo-1-32

```
Start at: 2018-04-24 21:06:12
End at: 2018-04-24 21:06:42
Local clock offset: -0.035 ms
Remote clock offset: -11.497 ms

# Below is generated by plot.py at 2018-04-25 00:29:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.31 Mbit/s
95th percentile per-packet one-way delay: 16.319 ms
Loss rate: 7.79%
-- Flow 1:
Average throughput: 47.45 Mbit/s
95th percentile per-packet one-way delay: 15.113 ms
Loss rate: 8.01%
-- Flow 2:
Average throughput: 40.56 Mbit/s
95th percentile per-packet one-way delay: 16.911 ms
Loss rate: 6.81%
-- Flow 3:
Average throughput: 42.81 Mbit/s
95th percentile per-packet one-way delay: 18.797 ms
Loss rate: 8.86%
```

Run 2: Report of Indigo-1-32 — Data Link

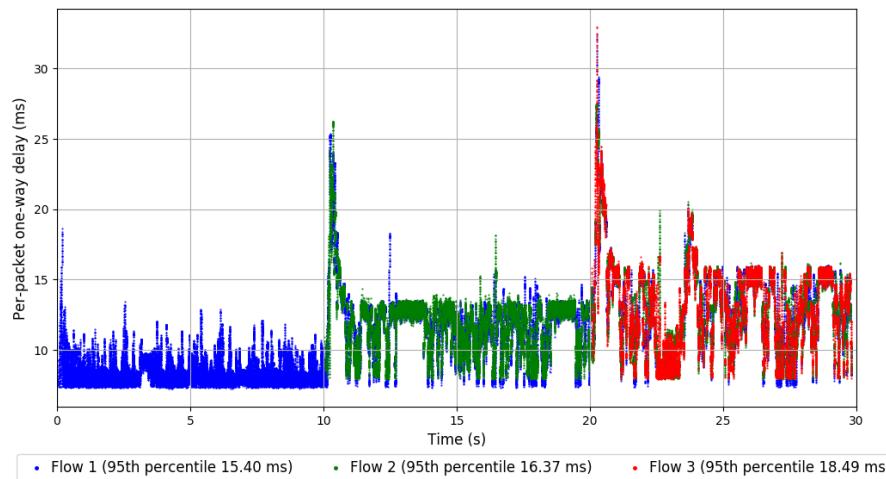
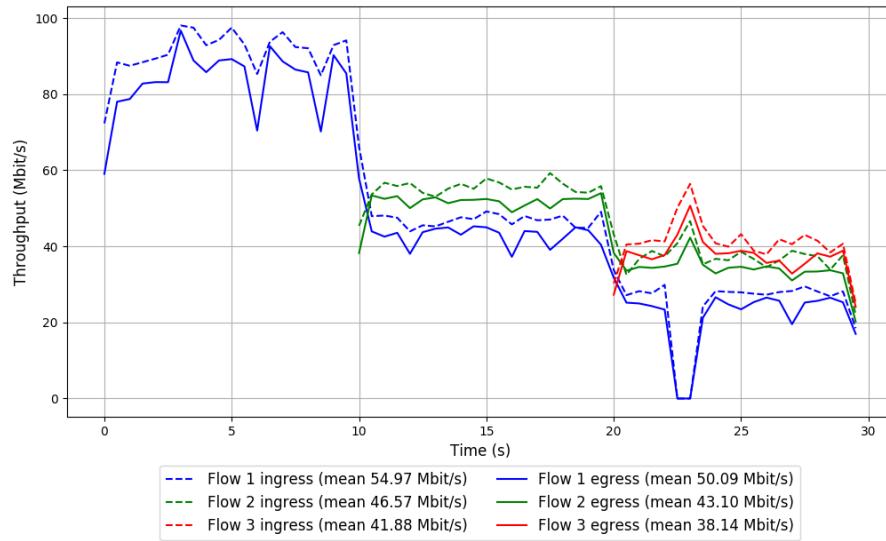


Run 3: Statistics of Indigo-1-32

```
Start at: 2018-04-24 21:25:44
End at: 2018-04-24 21:26:14
Local clock offset: 0.43 ms
Remote clock offset: -11.689 ms

# Below is generated by plot.py at 2018-04-25 00:29:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.15 Mbit/s
95th percentile per-packet one-way delay: 15.810 ms
Loss rate: 8.44%
-- Flow 1:
Average throughput: 50.09 Mbit/s
95th percentile per-packet one-way delay: 15.402 ms
Loss rate: 8.87%
-- Flow 2:
Average throughput: 43.10 Mbit/s
95th percentile per-packet one-way delay: 16.374 ms
Loss rate: 7.45%
-- Flow 3:
Average throughput: 38.14 Mbit/s
95th percentile per-packet one-way delay: 18.492 ms
Loss rate: 8.95%
```

Run 3: Report of Indigo-1-32 — Data Link

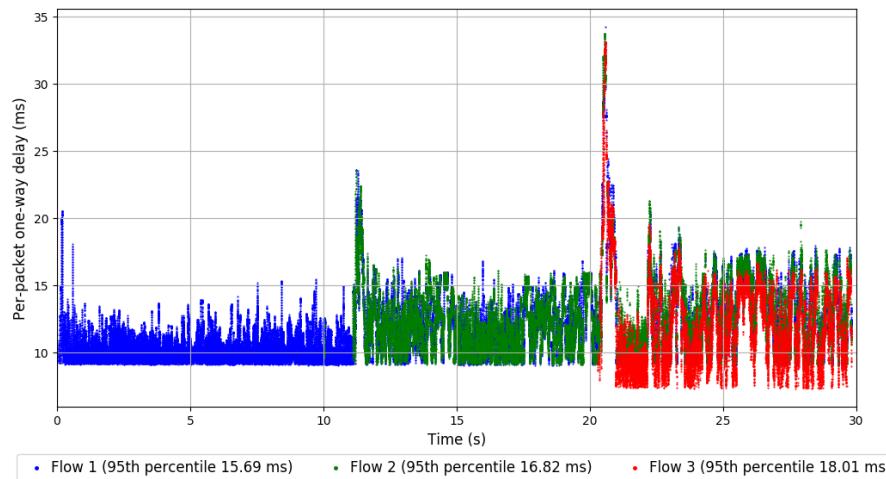
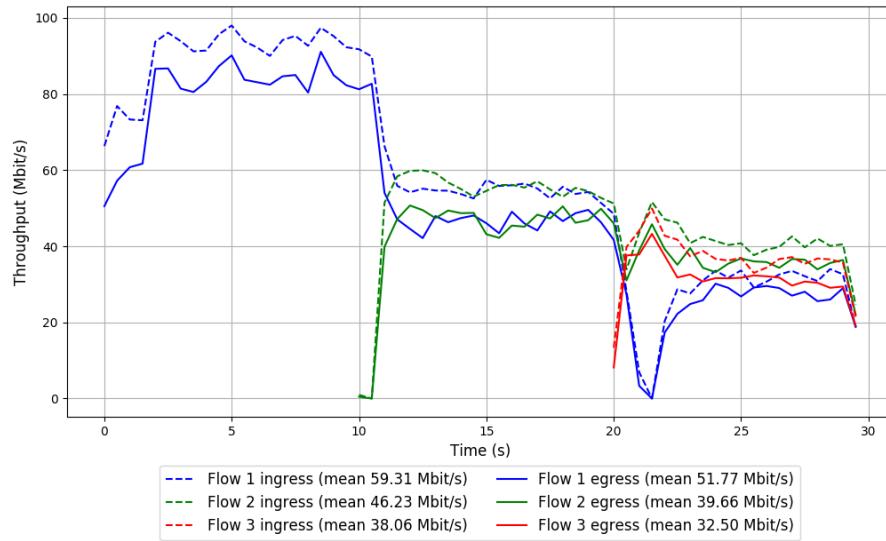


Run 4: Statistics of Indigo-1-32

```
Start at: 2018-04-24 21:45:14
End at: 2018-04-24 21:45:44
Local clock offset: -0.779 ms
Remote clock offset: -5.863 ms

# Below is generated by plot.py at 2018-04-25 00:29:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.49 Mbit/s
95th percentile per-packet one-way delay: 16.317 ms
Loss rate: 13.39%
-- Flow 1:
Average throughput: 51.77 Mbit/s
95th percentile per-packet one-way delay: 15.688 ms
Loss rate: 12.71%
-- Flow 2:
Average throughput: 39.66 Mbit/s
95th percentile per-packet one-way delay: 16.817 ms
Loss rate: 14.21%
-- Flow 3:
Average throughput: 32.50 Mbit/s
95th percentile per-packet one-way delay: 18.012 ms
Loss rate: 14.58%
```

Run 4: Report of Indigo-1-32 — Data Link

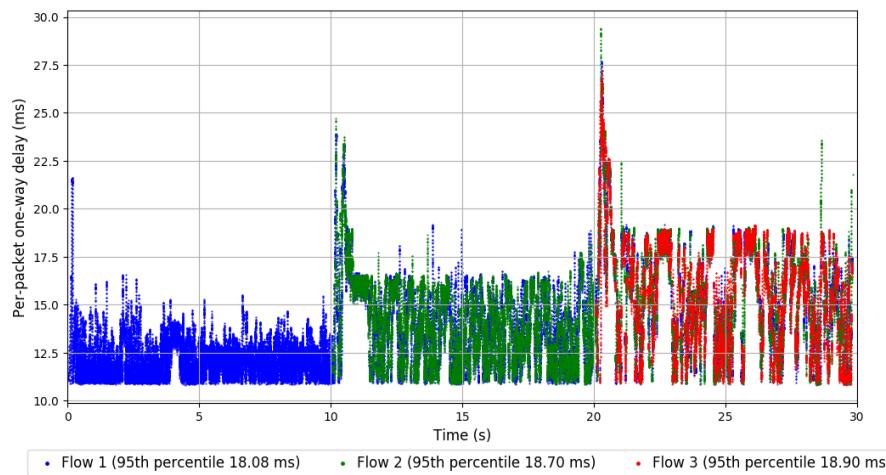
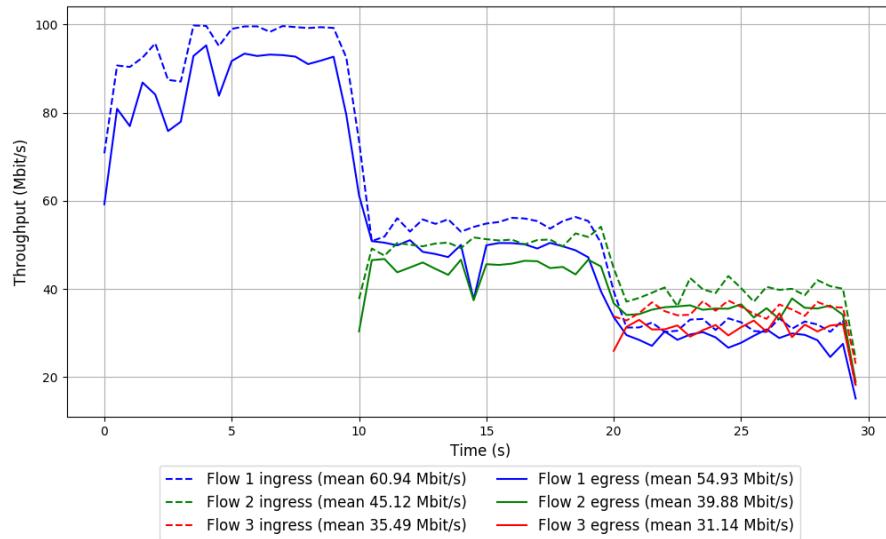


Run 5: Statistics of Indigo-1-32

```
Start at: 2018-04-24 22:04:47
End at: 2018-04-24 22:05:17
Local clock offset: -0.793 ms
Remote clock offset: -1.285 ms

# Below is generated by plot.py at 2018-04-25 00:29:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.54 Mbit/s
95th percentile per-packet one-way delay: 18.600 ms
Loss rate: 10.66%
-- Flow 1:
Average throughput: 54.93 Mbit/s
95th percentile per-packet one-way delay: 18.076 ms
Loss rate: 9.91%
-- Flow 2:
Average throughput: 39.88 Mbit/s
95th percentile per-packet one-way delay: 18.698 ms
Loss rate: 11.57%
-- Flow 3:
Average throughput: 31.14 Mbit/s
95th percentile per-packet one-way delay: 18.903 ms
Loss rate: 12.26%
```

Run 5: Report of Indigo-1-32 — Data Link

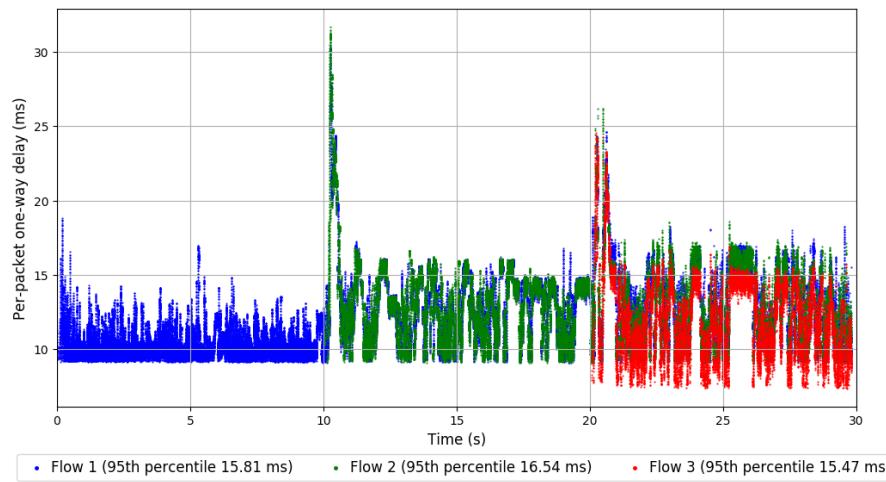
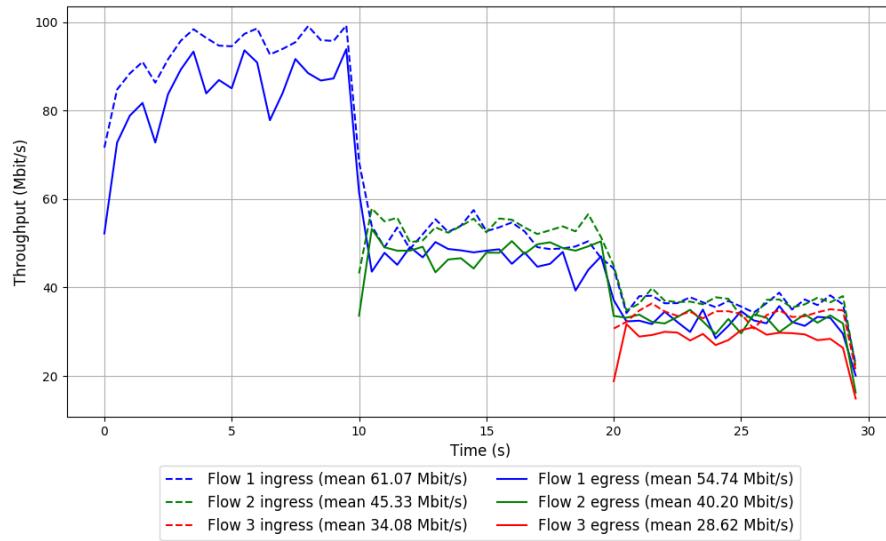


Run 6: Statistics of Indigo-1-32

```
Start at: 2018-04-24 22:24:33
End at: 2018-04-24 22:25:03
Local clock offset: -10.055 ms
Remote clock offset: -6.948 ms

# Below is generated by plot.py at 2018-04-25 00:29:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.73 Mbit/s
95th percentile per-packet one-way delay: 16.024 ms
Loss rate: 11.25%
-- Flow 1:
Average throughput: 54.74 Mbit/s
95th percentile per-packet one-way delay: 15.810 ms
Loss rate: 10.34%
-- Flow 2:
Average throughput: 40.20 Mbit/s
95th percentile per-packet one-way delay: 16.535 ms
Loss rate: 11.31%
-- Flow 3:
Average throughput: 28.62 Mbit/s
95th percentile per-packet one-way delay: 15.472 ms
Loss rate: 16.03%
```

Run 6: Report of Indigo-1-32 — Data Link

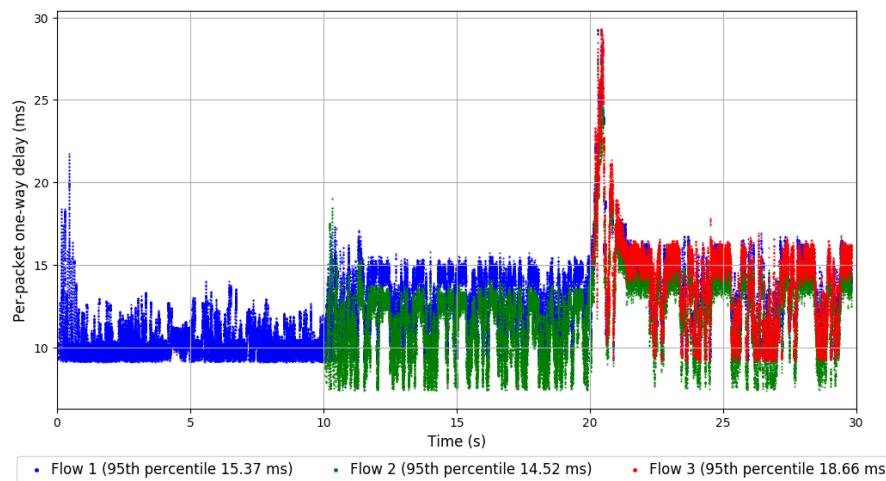
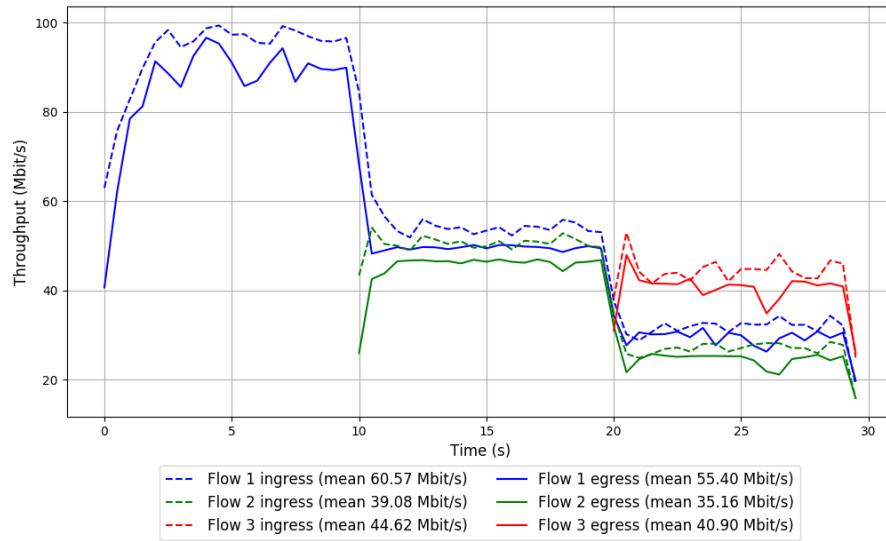


Run 7: Statistics of Indigo-1-32

```
Start at: 2018-04-24 22:44:28
End at: 2018-04-24 22:44:58
Local clock offset: -13.3 ms
Remote clock offset: -6.775 ms

# Below is generated by plot.py at 2018-04-25 00:30:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.10 Mbit/s
95th percentile per-packet one-way delay: 15.889 ms
Loss rate: 8.89%
-- Flow 1:
Average throughput: 55.40 Mbit/s
95th percentile per-packet one-way delay: 15.373 ms
Loss rate: 8.53%
-- Flow 2:
Average throughput: 35.16 Mbit/s
95th percentile per-packet one-way delay: 14.521 ms
Loss rate: 10.02%
-- Flow 3:
Average throughput: 40.90 Mbit/s
95th percentile per-packet one-way delay: 18.662 ms
Loss rate: 8.36%
```

Run 7: Report of Indigo-1-32 — Data Link

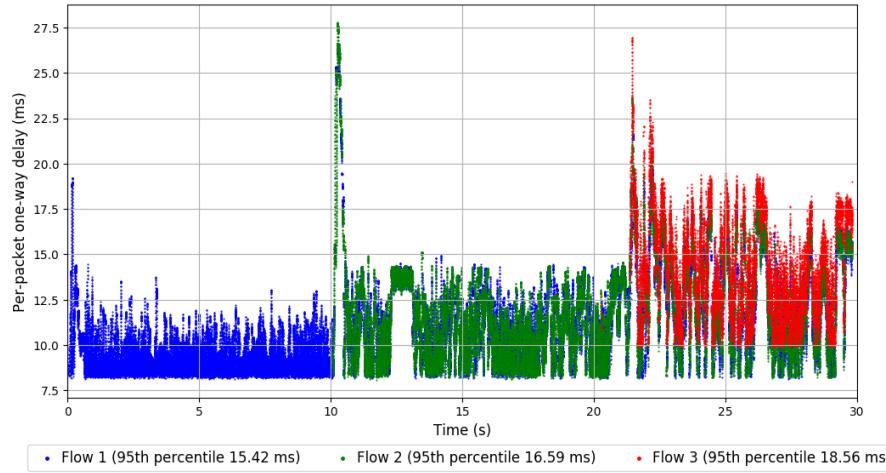
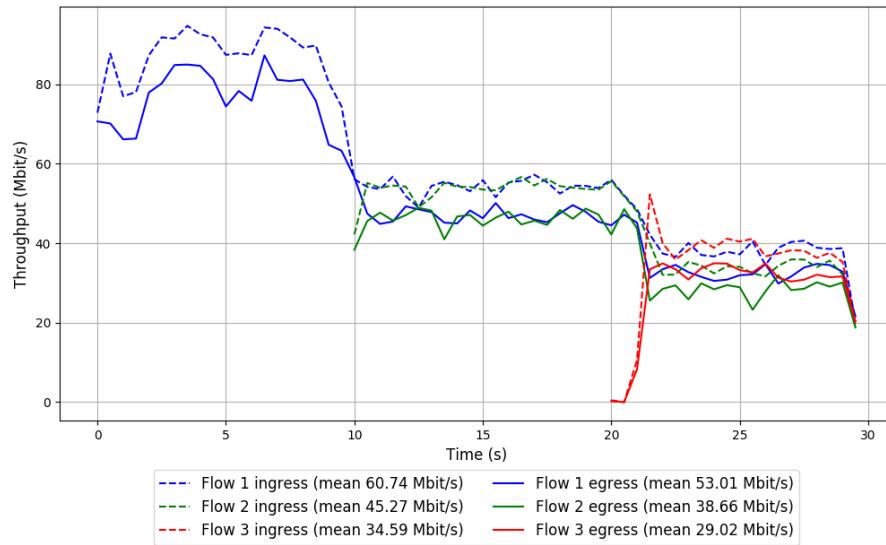


Run 8: Statistics of Indigo-1-32

```
Start at: 2018-04-24 23:04:16
End at: 2018-04-24 23:04:46
Local clock offset: -16.017 ms
Remote clock offset: -6.098 ms

# Below is generated by plot.py at 2018-04-25 00:30:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.94 Mbit/s
95th percentile per-packet one-way delay: 16.902 ms
Loss rate: 13.62%
-- Flow 1:
Average throughput: 53.01 Mbit/s
95th percentile per-packet one-way delay: 15.417 ms
Loss rate: 12.71%
-- Flow 2:
Average throughput: 38.66 Mbit/s
95th percentile per-packet one-way delay: 16.592 ms
Loss rate: 14.58%
-- Flow 3:
Average throughput: 29.02 Mbit/s
95th percentile per-packet one-way delay: 18.558 ms
Loss rate: 16.05%
```

Run 8: Report of Indigo-1-32 — Data Link

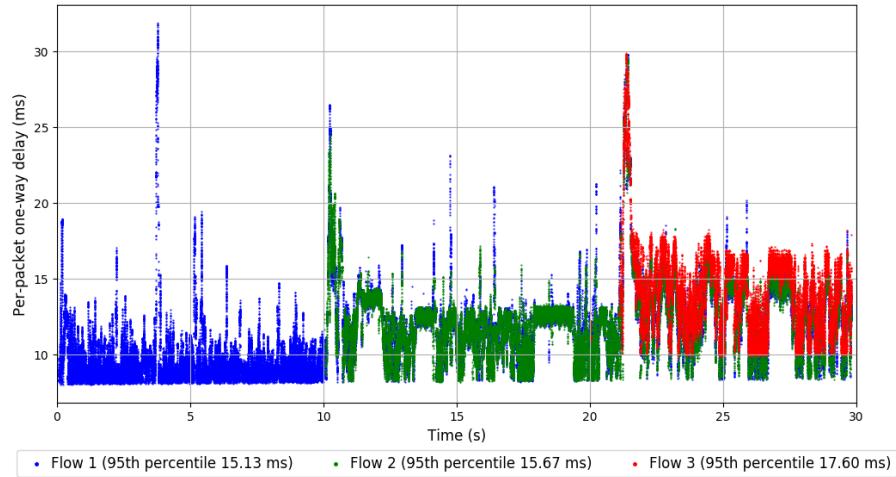
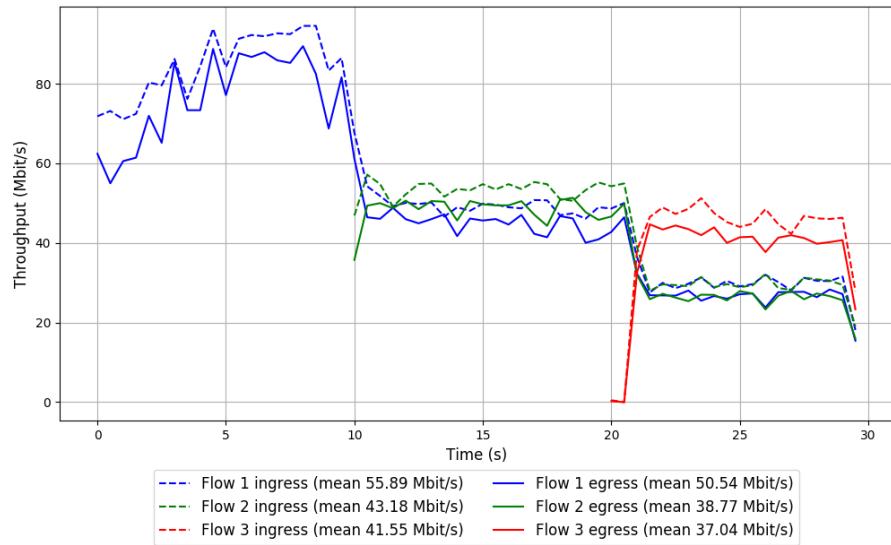


Run 9: Statistics of Indigo-1-32

```
Start at: 2018-04-24 23:24:23
End at: 2018-04-24 23:24:53
Local clock offset: -8.709 ms
Remote clock offset: -7.434 ms

# Below is generated by plot.py at 2018-04-25 00:30:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.38 Mbit/s
95th percentile per-packet one-way delay: 16.296 ms
Loss rate: 9.91%
-- Flow 1:
Average throughput: 50.54 Mbit/s
95th percentile per-packet one-way delay: 15.126 ms
Loss rate: 9.54%
-- Flow 2:
Average throughput: 38.77 Mbit/s
95th percentile per-packet one-way delay: 15.668 ms
Loss rate: 10.22%
-- Flow 3:
Average throughput: 37.04 Mbit/s
95th percentile per-packet one-way delay: 17.597 ms
Loss rate: 10.81%
```

Run 9: Report of Indigo-1-32 — Data Link

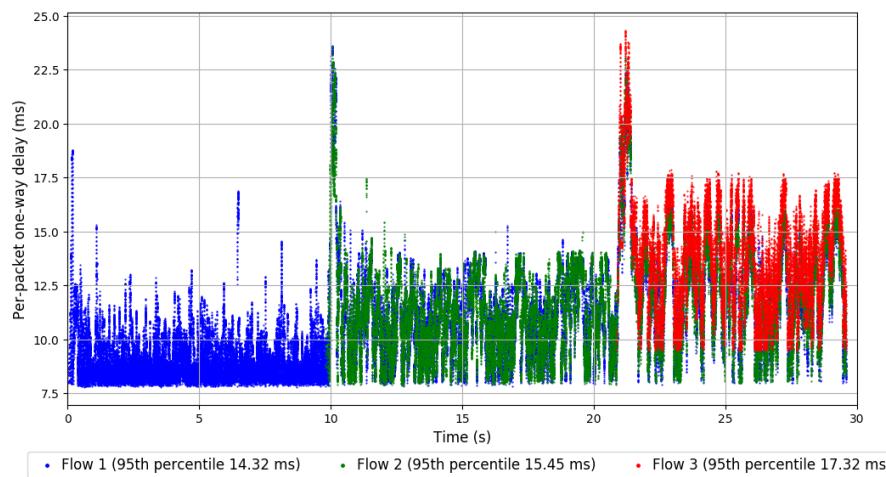
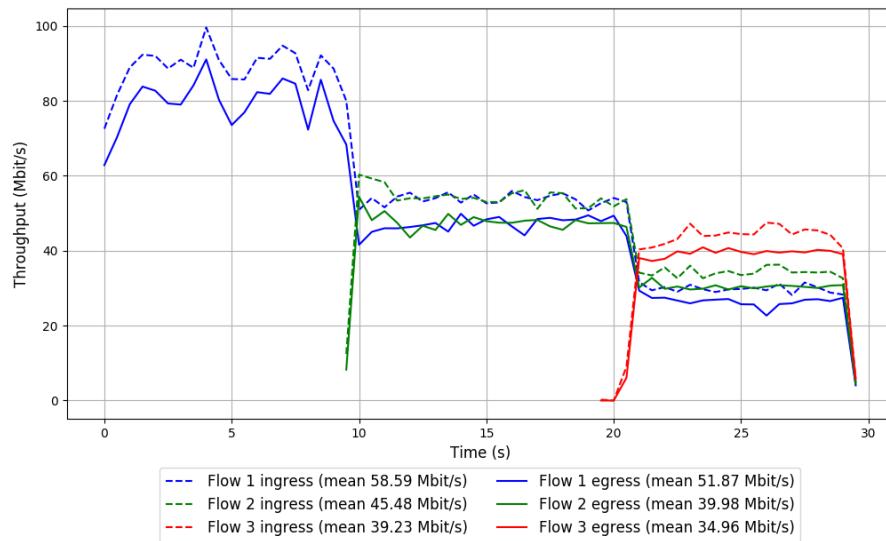


Run 10: Statistics of Indigo-1-32

```
Start at: 2018-04-24 23:44:01
End at: 2018-04-24 23:44:31
Local clock offset: -1.597 ms
Remote clock offset: -7.216 ms

# Below is generated by plot.py at 2018-04-25 00:30:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.10 Mbit/s
95th percentile per-packet one-way delay: 15.825 ms
Loss rate: 11.58%
-- Flow 1:
Average throughput: 51.87 Mbit/s
95th percentile per-packet one-way delay: 14.323 ms
Loss rate: 11.47%
-- Flow 2:
Average throughput: 39.98 Mbit/s
95th percentile per-packet one-way delay: 15.446 ms
Loss rate: 12.10%
-- Flow 3:
Average throughput: 34.96 Mbit/s
95th percentile per-packet one-way delay: 17.318 ms
Loss rate: 10.90%
```

Run 10: Report of Indigo-1-32 — Data Link

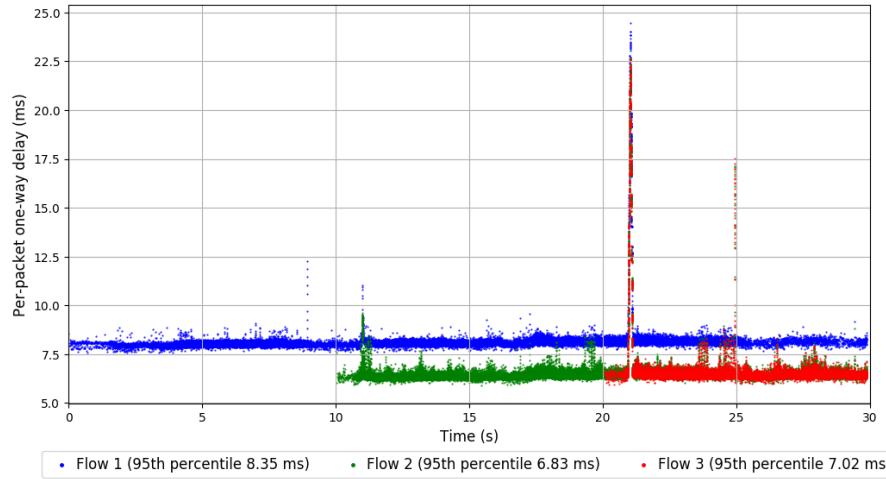
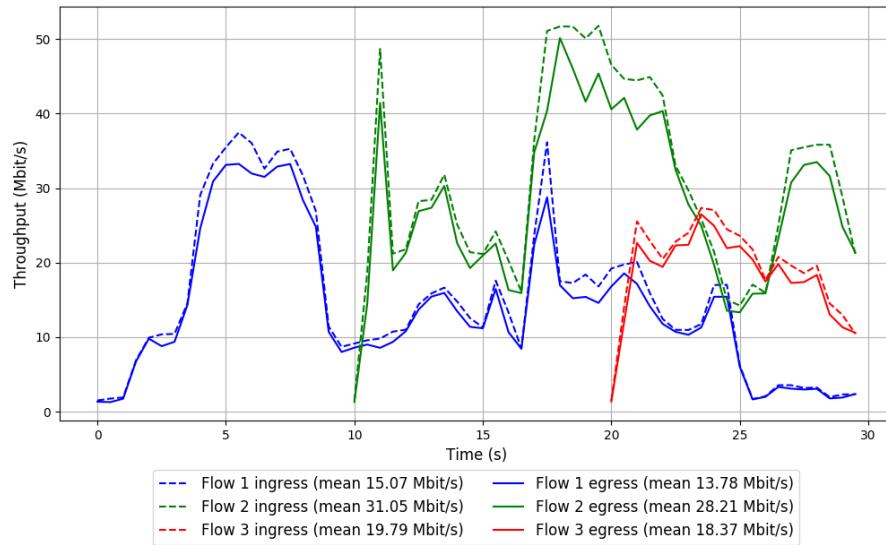


```
Run 1: Statistics of PCC-Vivace

Start at: 2018-04-24 20:34:00
End at: 2018-04-24 20:34:30
Local clock offset: 0.816 ms
Remote clock offset: -9.903 ms

# Below is generated by plot.py at 2018-04-25 00:30:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.58 Mbit/s
95th percentile per-packet one-way delay: 8.262 ms
Loss rate: 8.65%
-- Flow 1:
Average throughput: 13.78 Mbit/s
95th percentile per-packet one-way delay: 8.347 ms
Loss rate: 8.61%
-- Flow 2:
Average throughput: 28.21 Mbit/s
95th percentile per-packet one-way delay: 6.835 ms
Loss rate: 9.16%
-- Flow 3:
Average throughput: 18.37 Mbit/s
95th percentile per-packet one-way delay: 7.023 ms
Loss rate: 7.18%
```

Run 1: Report of PCC-Vivace — Data Link

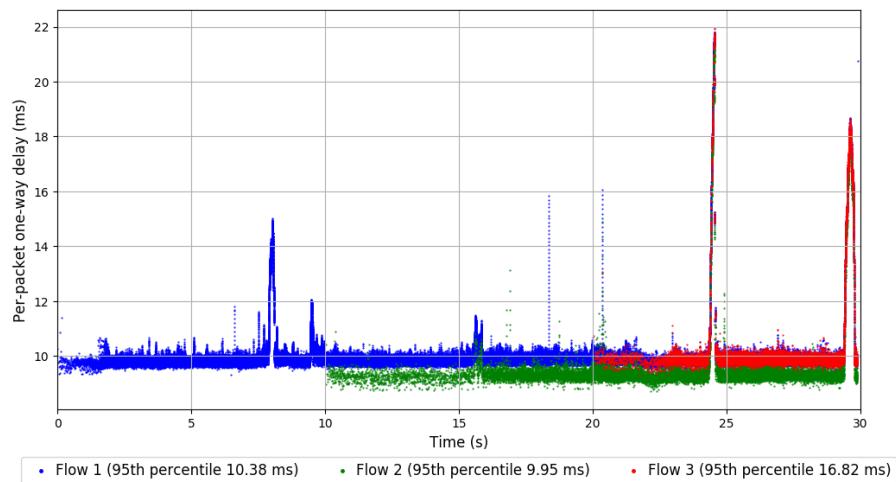
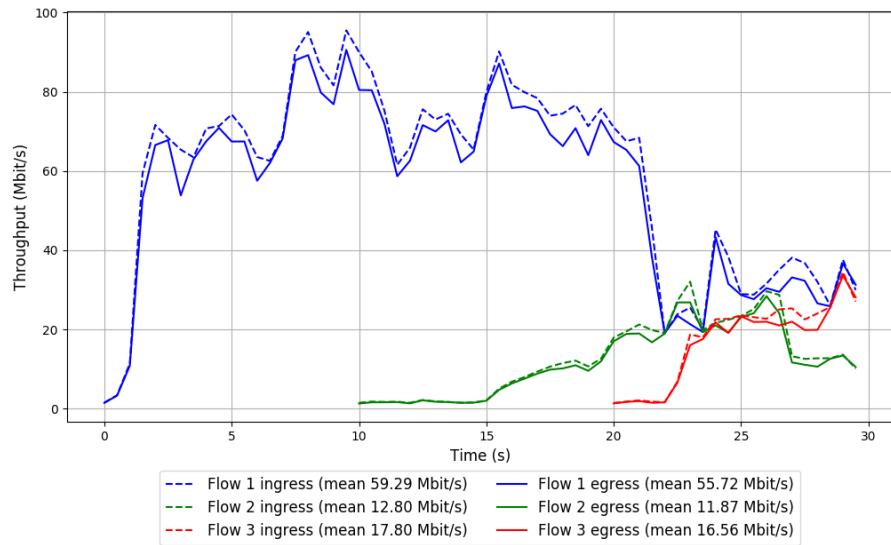


Run 2: Statistics of PCC-Vivace

```
Start at: 2018-04-24 20:53:37
End at: 2018-04-24 20:54:07
Local clock offset: 0.379 ms
Remote clock offset: -10.764 ms

# Below is generated by plot.py at 2018-04-25 00:30:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.06 Mbit/s
95th percentile per-packet one-way delay: 10.510 ms
Loss rate: 6.23%
-- Flow 1:
Average throughput: 55.72 Mbit/s
95th percentile per-packet one-way delay: 10.377 ms
Loss rate: 5.99%
-- Flow 2:
Average throughput: 11.87 Mbit/s
95th percentile per-packet one-way delay: 9.947 ms
Loss rate: 7.32%
-- Flow 3:
Average throughput: 16.56 Mbit/s
95th percentile per-packet one-way delay: 16.820 ms
Loss rate: 7.08%
```

Run 2: Report of PCC-Vivace — Data Link

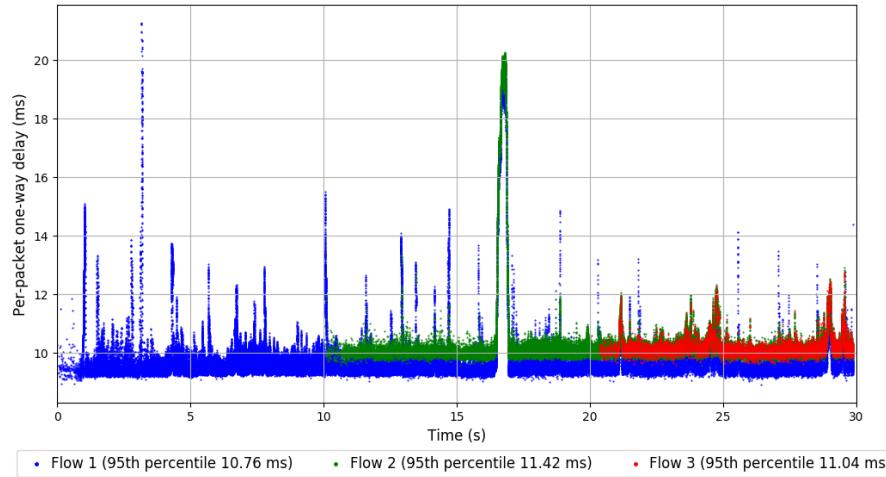
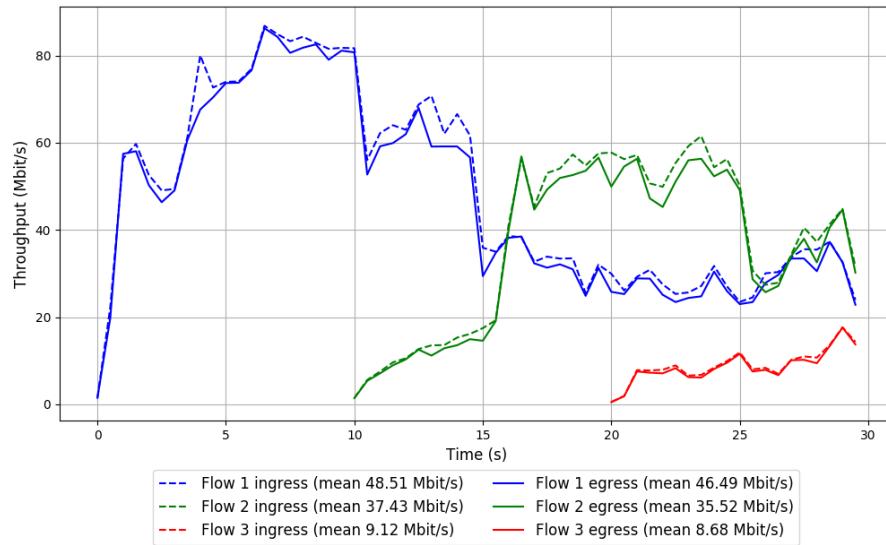


Run 3: Statistics of PCC-Vivace

```
Start at: 2018-04-24 21:13:15
End at: 2018-04-24 21:13:45
Local clock offset: -0.812 ms
Remote clock offset: -10.827 ms

# Below is generated by plot.py at 2018-04-25 00:31:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.95 Mbit/s
95th percentile per-packet one-way delay: 11.020 ms
Loss rate: 4.49%
-- Flow 1:
Average throughput: 46.49 Mbit/s
95th percentile per-packet one-way delay: 10.763 ms
Loss rate: 4.16%
-- Flow 2:
Average throughput: 35.52 Mbit/s
95th percentile per-packet one-way delay: 11.423 ms
Loss rate: 5.10%
-- Flow 3:
Average throughput: 8.68 Mbit/s
95th percentile per-packet one-way delay: 11.045 ms
Loss rate: 4.78%
```

Run 3: Report of PCC-Vivace — Data Link

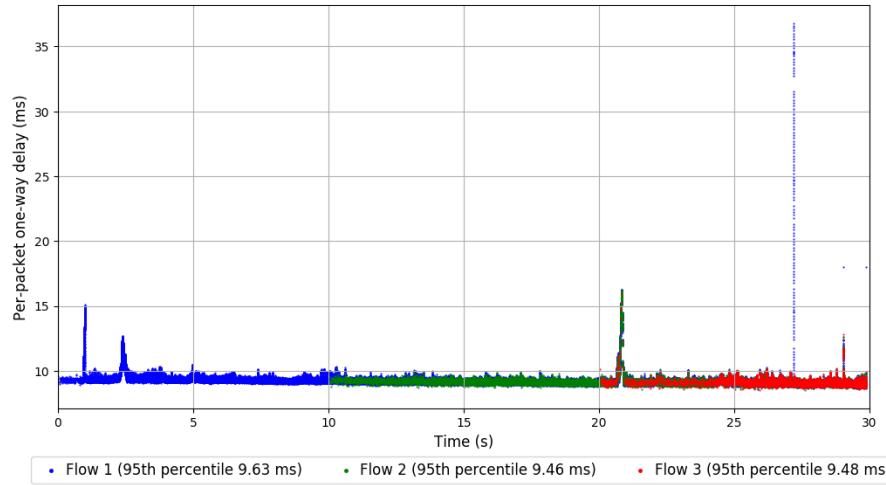
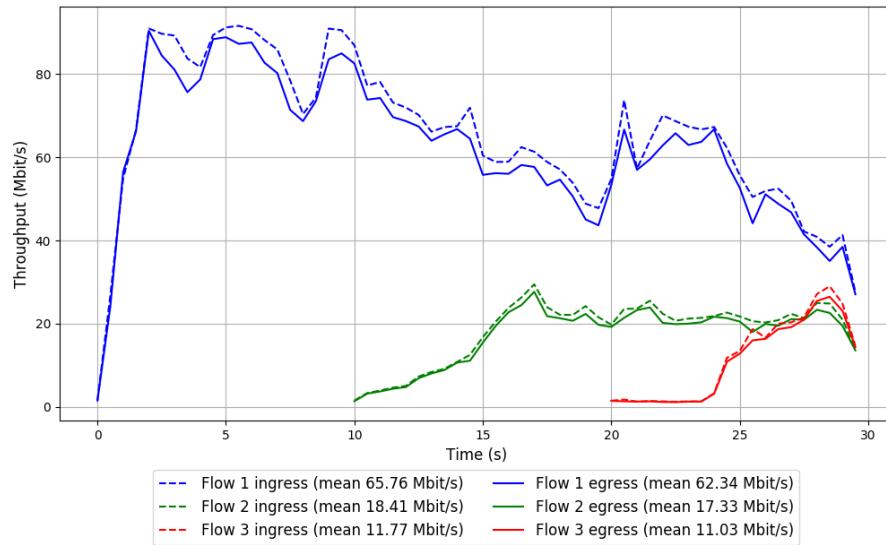


Run 4: Statistics of PCC-Vivace

```
Start at: 2018-04-24 21:32:43
End at: 2018-04-24 21:33:13
Local clock offset: -0.715 ms
Remote clock offset: -11.252 ms

# Below is generated by plot.py at 2018-04-25 00:31:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.49 Mbit/s
95th percentile per-packet one-way delay: 9.601 ms
Loss rate: 5.34%
-- Flow 1:
Average throughput: 62.34 Mbit/s
95th percentile per-packet one-way delay: 9.629 ms
Loss rate: 5.18%
-- Flow 2:
Average throughput: 17.33 Mbit/s
95th percentile per-packet one-way delay: 9.460 ms
Loss rate: 5.88%
-- Flow 3:
Average throughput: 11.03 Mbit/s
95th percentile per-packet one-way delay: 9.485 ms
Loss rate: 6.32%
```

Run 4: Report of PCC-Vivace — Data Link

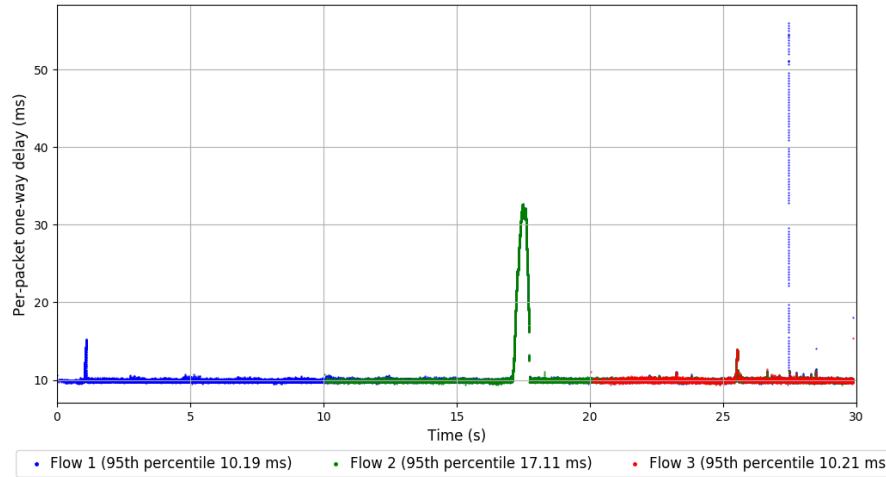
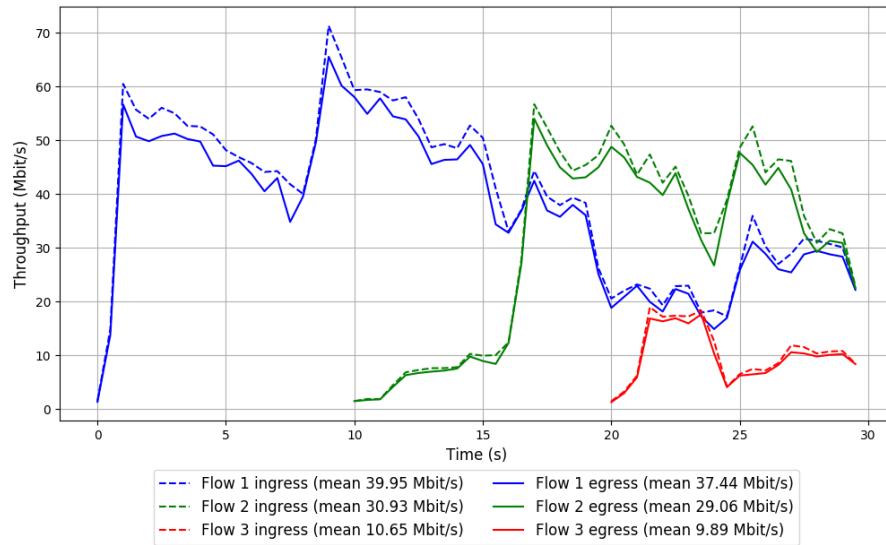


Run 5: Statistics of PCC-Vivace

```
Start at: 2018-04-24 21:52:17
End at: 2018-04-24 21:52:47
Local clock offset: -0.165 ms
Remote clock offset: -3.203 ms

# Below is generated by plot.py at 2018-04-25 00:31:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.02 Mbit/s
95th percentile per-packet one-way delay: 10.308 ms
Loss rate: 6.25%
-- Flow 1:
Average throughput: 37.44 Mbit/s
95th percentile per-packet one-way delay: 10.189 ms
Loss rate: 6.27%
-- Flow 2:
Average throughput: 29.06 Mbit/s
95th percentile per-packet one-way delay: 17.113 ms
Loss rate: 6.06%
-- Flow 3:
Average throughput: 9.89 Mbit/s
95th percentile per-packet one-way delay: 10.209 ms
Loss rate: 7.10%
```

Run 5: Report of PCC-Vivace — Data Link

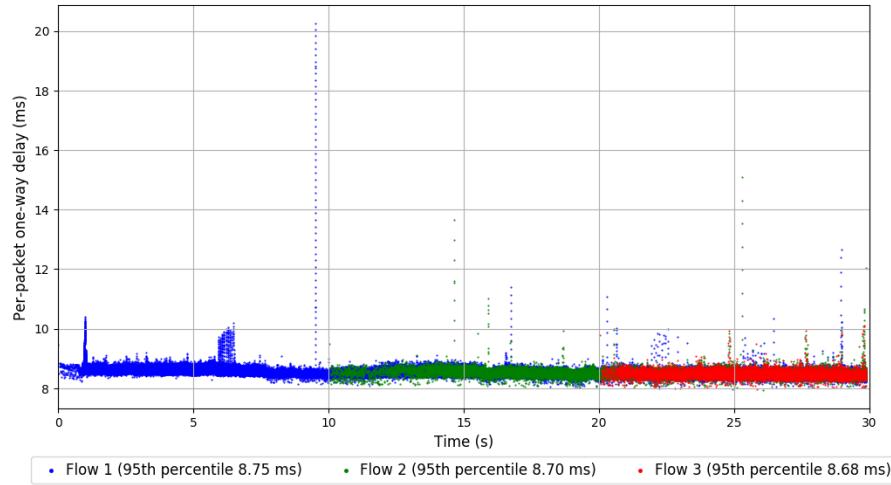
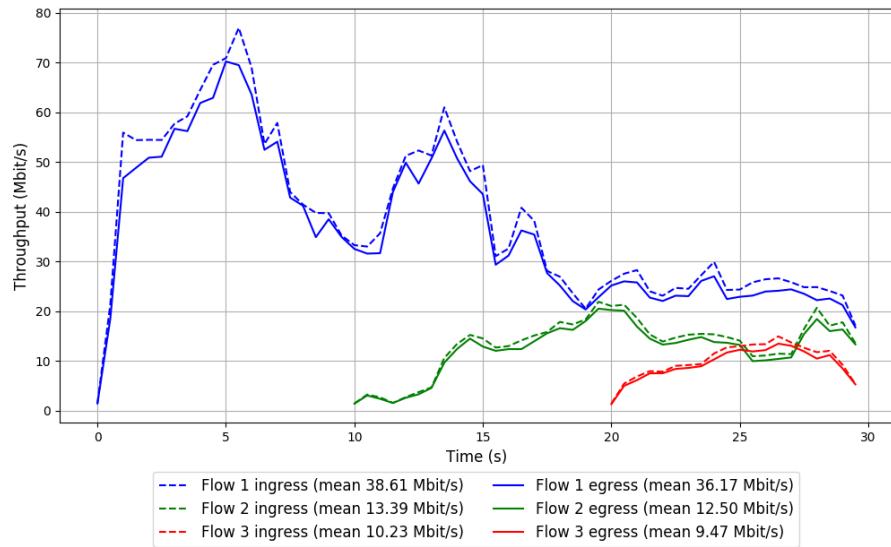


Run 6: Statistics of PCC-Vivace

```
Start at: 2018-04-24 22:11:54
End at: 2018-04-24 22:12:24
Local clock offset: -5.568 ms
Remote clock offset: -5.087 ms

# Below is generated by plot.py at 2018-04-25 00:31:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 47.59 Mbit/s
95th percentile per-packet one-way delay: 8.740 ms
Loss rate: 6.45%
-- Flow 1:
Average throughput: 36.17 Mbit/s
95th percentile per-packet one-way delay: 8.749 ms
Loss rate: 6.32%
-- Flow 2:
Average throughput: 12.50 Mbit/s
95th percentile per-packet one-way delay: 8.700 ms
Loss rate: 6.64%
-- Flow 3:
Average throughput: 9.47 Mbit/s
95th percentile per-packet one-way delay: 8.683 ms
Loss rate: 7.45%
```

Run 6: Report of PCC-Vivace — Data Link

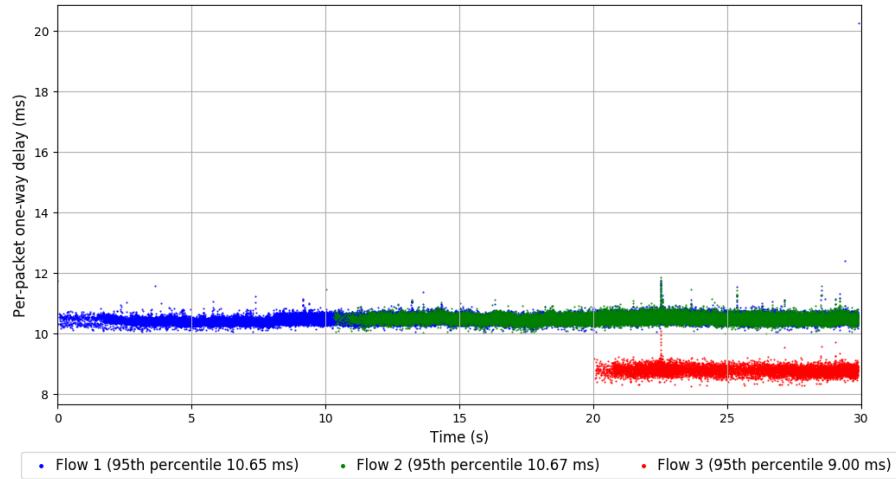
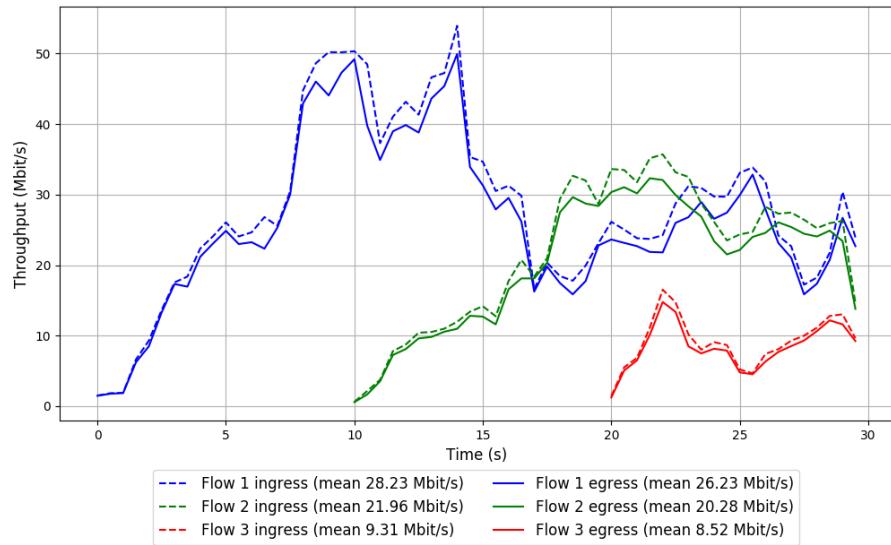


Run 7: Statistics of PCC-Vivace

```
Start at: 2018-04-24 22:31:50
End at: 2018-04-24 22:32:20
Local clock offset: -13.029 ms
Remote clock offset: -7.371 ms

# Below is generated by plot.py at 2018-04-25 00:31:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.52 Mbit/s
95th percentile per-packet one-way delay: 10.654 ms
Loss rate: 7.35%
-- Flow 1:
Average throughput: 26.23 Mbit/s
95th percentile per-packet one-way delay: 10.650 ms
Loss rate: 7.07%
-- Flow 2:
Average throughput: 20.28 Mbit/s
95th percentile per-packet one-way delay: 10.673 ms
Loss rate: 7.65%
-- Flow 3:
Average throughput: 8.52 Mbit/s
95th percentile per-packet one-way delay: 9.000 ms
Loss rate: 8.46%
```

Run 7: Report of PCC-Vivace — Data Link

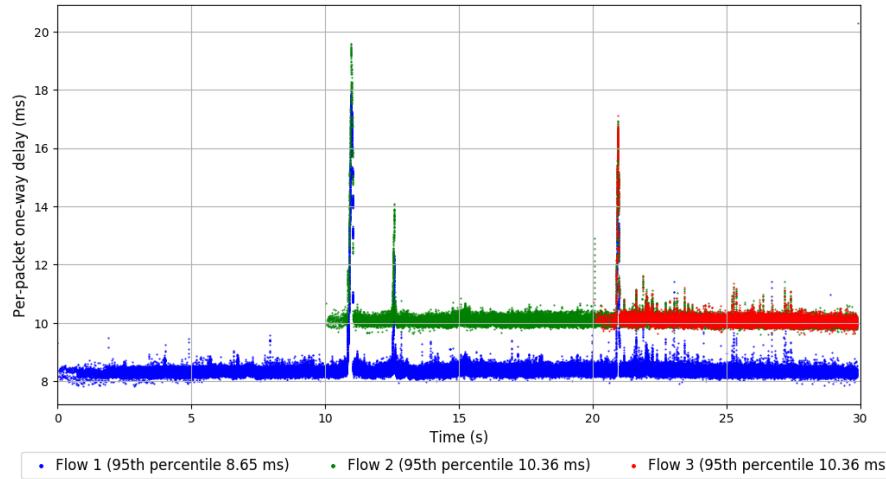
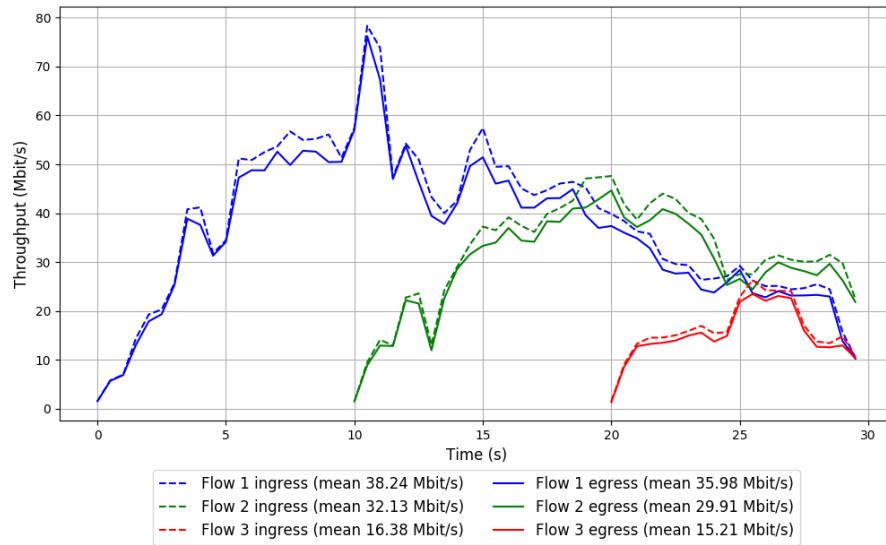


Run 8: Statistics of PCC-Vivace

```
Start at: 2018-04-24 22:51:38
End at: 2018-04-24 22:52:08
Local clock offset: -15.104 ms
Remote clock offset: -6.882 ms

# Below is generated by plot.py at 2018-04-25 00:31:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.88 Mbit/s
95th percentile per-packet one-way delay: 10.269 ms
Loss rate: 6.32%
-- Flow 1:
Average throughput: 35.98 Mbit/s
95th percentile per-packet one-way delay: 8.654 ms
Loss rate: 5.91%
-- Flow 2:
Average throughput: 29.91 Mbit/s
95th percentile per-packet one-way delay: 10.355 ms
Loss rate: 6.87%
-- Flow 3:
Average throughput: 15.21 Mbit/s
95th percentile per-packet one-way delay: 10.363 ms
Loss rate: 7.12%
```

Run 8: Report of PCC-Vivace — Data Link

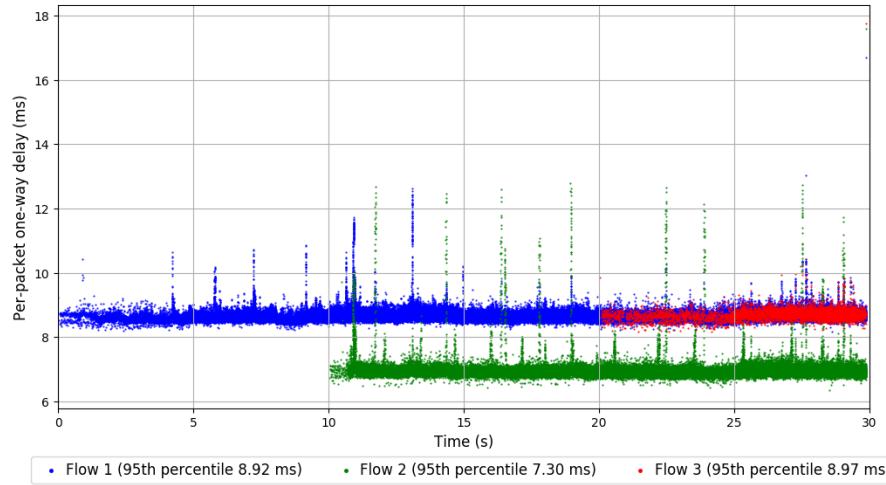
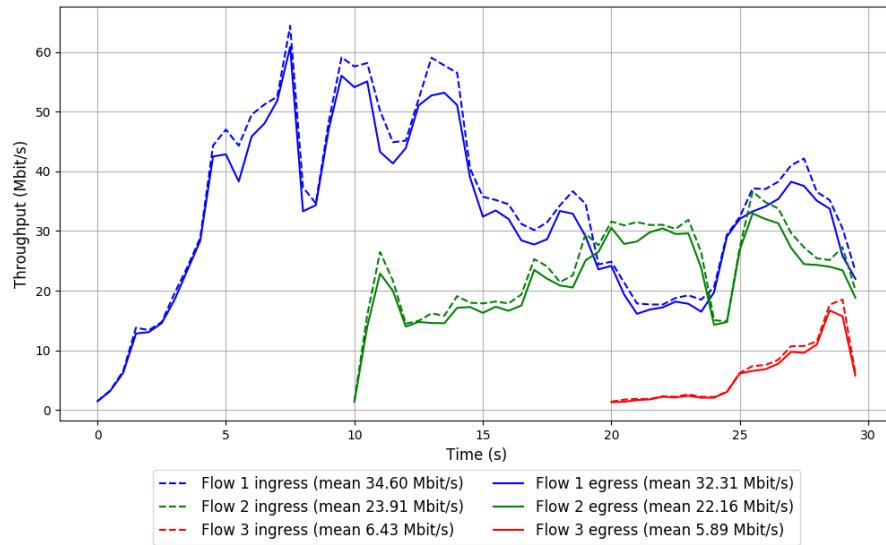


Run 9: Statistics of PCC-Vivace

```
Start at: 2018-04-24 23:11:44
End at: 2018-04-24 23:12:14
Local clock offset: -17.176 ms
Remote clock offset: -7.788 ms

# Below is generated by plot.py at 2018-04-25 00:31:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.99 Mbit/s
95th percentile per-packet one-way delay: 8.886 ms
Loss rate: 6.87%
-- Flow 1:
Average throughput: 32.31 Mbit/s
95th percentile per-packet one-way delay: 8.917 ms
Loss rate: 6.60%
-- Flow 2:
Average throughput: 22.16 Mbit/s
95th percentile per-packet one-way delay: 7.297 ms
Loss rate: 7.28%
-- Flow 3:
Average throughput: 5.89 Mbit/s
95th percentile per-packet one-way delay: 8.966 ms
Loss rate: 8.27%
```

Run 9: Report of PCC-Vivace — Data Link

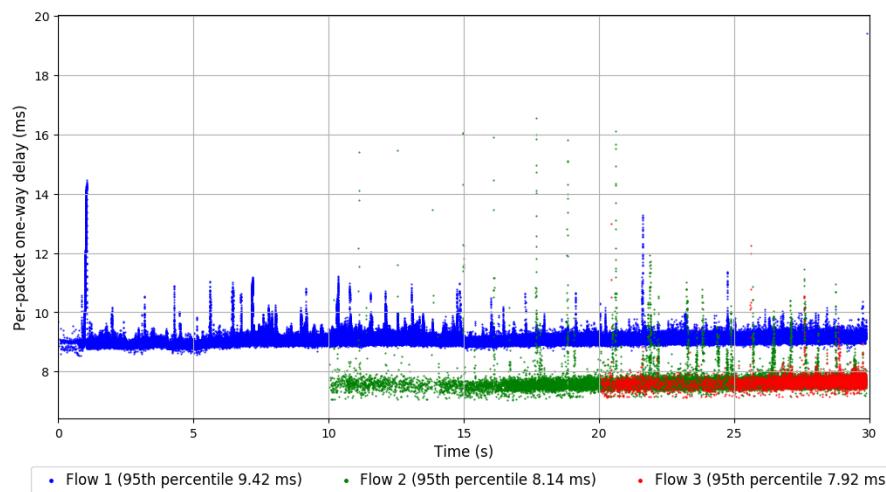
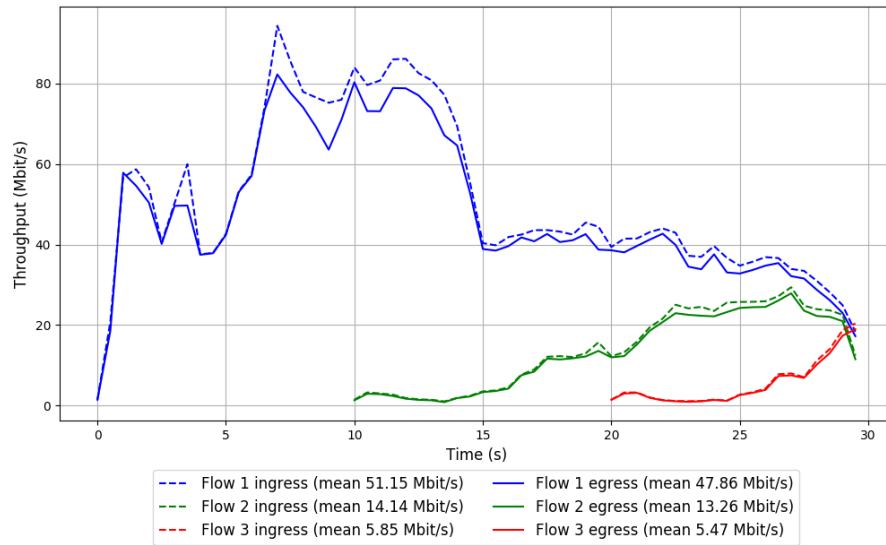


Run 10: Statistics of PCC-Vivace

```
Start at: 2018-04-24 23:31:30
End at: 2018-04-24 23:32:00
Local clock offset: -5.051 ms
Remote clock offset: -8.18 ms

# Below is generated by plot.py at 2018-04-25 00:31:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.48 Mbit/s
95th percentile per-packet one-way delay: 9.380 ms
Loss rate: 6.37%
-- Flow 1:
Average throughput: 47.86 Mbit/s
95th percentile per-packet one-way delay: 9.417 ms
Loss rate: 6.40%
-- Flow 2:
Average throughput: 13.26 Mbit/s
95th percentile per-packet one-way delay: 8.142 ms
Loss rate: 6.19%
-- Flow 3:
Average throughput: 5.47 Mbit/s
95th percentile per-packet one-way delay: 7.923 ms
Loss rate: 6.50%
```

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-24 20:35:09
End at: 2018-04-24 20:35:39
Local clock offset: -0.117 ms
Remote clock offset: -10.268 ms

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-04-24 20:54:48
End at: 2018-04-24 20:55:18
Local clock offset: 0.481 ms
Remote clock offset: -11.356 ms

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-04-24 21:14:26
End at: 2018-04-24 21:14:56
Local clock offset: -0.176 ms
Remote clock offset: -10.839 ms

Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-04-24 21:33:54
End at: 2018-04-24 21:34:24
Local clock offset: 0.607 ms
Remote clock offset: -10.208 ms

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-04-24 21:53:31
End at: 2018-04-24 21:54:01
Local clock offset: -0.096 ms
Remote clock offset: -2.937 ms

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-04-24 22:13:03

End at: 2018-04-24 22:13:33

Local clock offset: -5.041 ms

Remote clock offset: -5.15 ms

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-04-24 22:33:02

End at: 2018-04-24 22:33:32

Local clock offset: -11.614 ms

Remote clock offset: -6.869 ms

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-04-24 22:52:53
End at: 2018-04-24 22:53:23
Local clock offset: -15.226 ms
Remote clock offset: -6.822 ms

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-04-24 23:12:54

End at: 2018-04-24 23:13:24

Local clock offset: -17.562 ms

Remote clock offset: -6.721 ms

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-04-24 23:32:41

End at: 2018-04-24 23:33:11

Local clock offset: -5.17 ms

Remote clock offset: -6.794 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing