

Pantheon Report

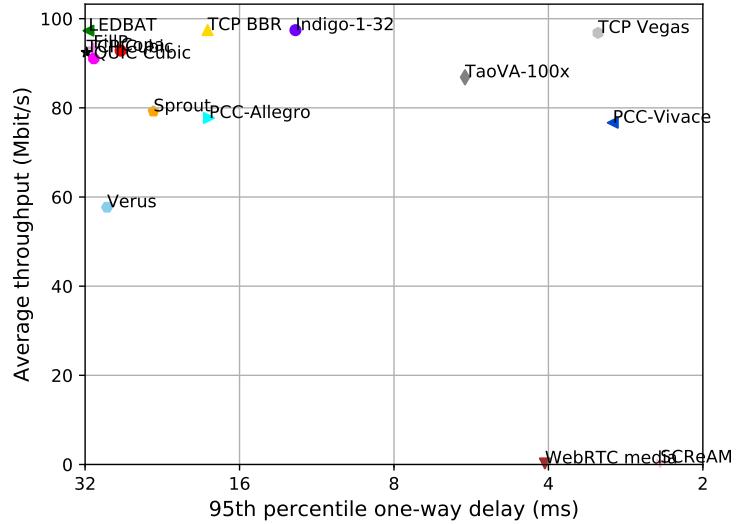
Generated at 2018-04-25 00:12:35 (UTC).
Data path: AWS Brazil 1 Ethernet (*local*) → Brazil Ethernet (*remote*).
Repeated the test of 16 congestion control schemes 10 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.
Increased UDP receive buffer to 16 MB (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 `gps.ntp.br` and have been applied to correct the timestamps in logs.

Git summary:

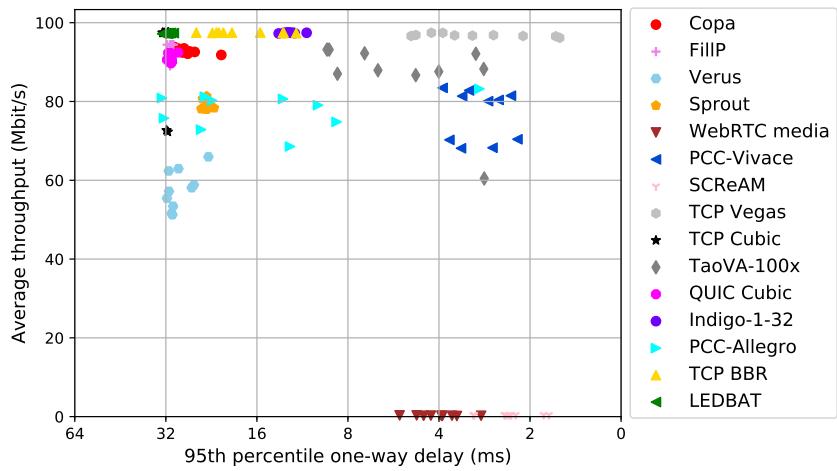
```
branch: master @ 114e807ac1bad7b85168ceb1f8a969063ee6c12c
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo @ 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 Brazil 1 Ethernet to Brazil Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS Brazil 1 Ethernet to Brazil 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	68.14	34.50	19.07	18.02	18.51	20.94	0.00	0.00	0.01
TCP Cubic	10	55.01	39.62	33.34	31.56	31.67	31.80	0.39	0.24	0.08
LEDBAT	10	60.92	40.06	29.73	31.32	31.63	31.13	0.04	0.06	0.16
PCC-Allegro	10	53.10	31.79	10.58	16.02	20.21	19.76	0.32	0.20	0.41
QUIC Cubic	10	58.37	34.28	30.45	30.32	30.74	30.27	0.15	0.42	0.24
SCReAM	10	0.22	0.22	0.22	2.12	1.98	1.84	0.00	0.00	0.00
WebRTC media	10	0.08	0.08	0.08	4.38	3.73	3.80	0.00	0.00	0.16
Sprout	10	43.19	39.39	29.74	21.63	23.25	26.29	0.00	0.19	0.18
TaoVA-100x	10	47.59	40.42	37.23	5.51	6.01	6.35	0.03	0.21	0.20
TCP Vegas	10	52.22	43.63	46.78	2.53	2.85	3.19	0.00	0.00	0.00
Verus	10	33.00	25.57	23.28	25.18	30.46	31.53	4.13	7.24	12.17
Copa	10	57.55	37.72	30.64	23.29	27.47	25.74	0.00	0.00	0.03
FillP	10	57.20	31.34	46.56	30.34	30.13	30.52	10.97	22.51	17.56
Indigo-1-32	10	46.31	44.32	67.04	10.90	12.46	12.44	0.00	0.38	0.00
PCC-Vivace	10	45.91	33.42	25.85	2.59	3.01	4.54	0.00	0.00	0.36
PCC-Expr	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

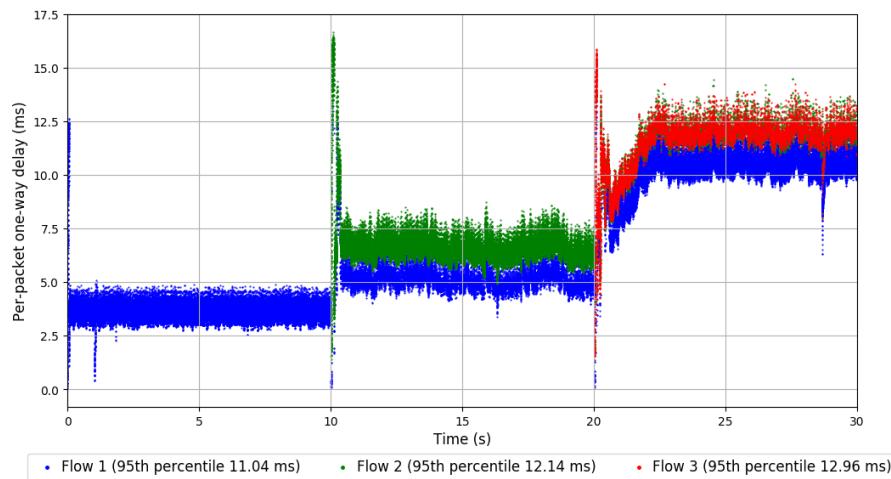
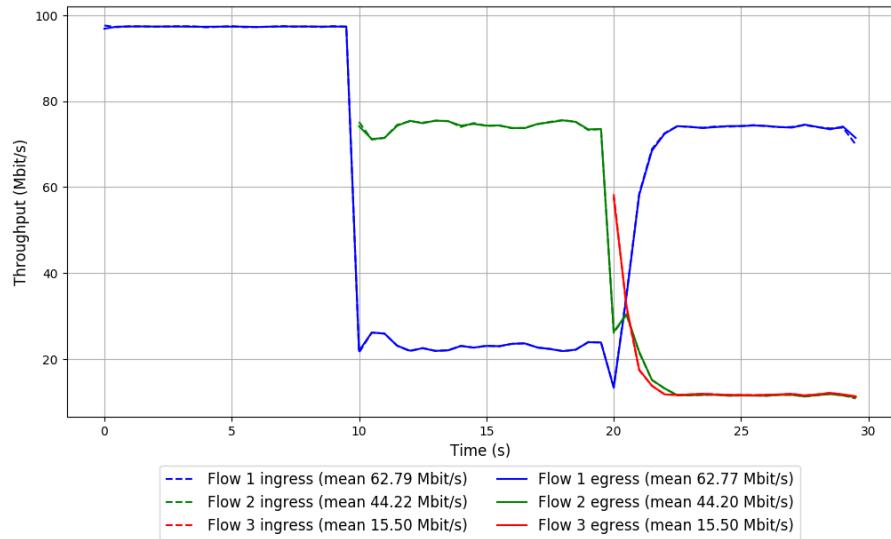
↳

Run 1: Statistics of TCP BBR

```
Start at: 2018-04-24 20:20:20
End at: 2018-04-24 20:20:50
Local clock offset: -4.236 ms
Remote clock offset: -7.607 ms

# Below is generated by plot.py at 2018-04-24 23:48:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.35 Mbit/s
95th percentile per-packet one-way delay: 11.861 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 62.77 Mbit/s
95th percentile per-packet one-way delay: 11.043 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 44.20 Mbit/s
95th percentile per-packet one-way delay: 12.142 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 15.50 Mbit/s
95th percentile per-packet one-way delay: 12.957 ms
Loss rate: 0.00%
```

Run 1: Report of TCP BBR — Data Link

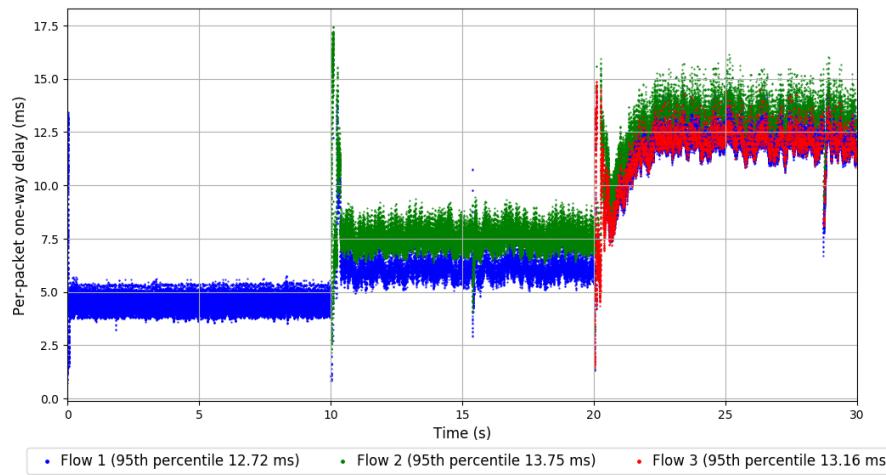
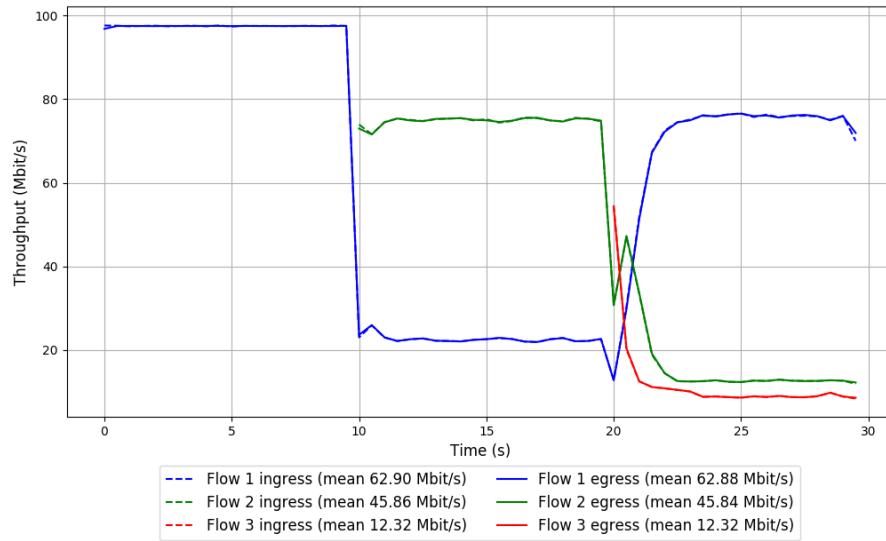


Run 2: Statistics of TCP BBR

```
Start at: 2018-04-24 20:39:33
End at: 2018-04-24 20:40:03
Local clock offset: -4.946 ms
Remote clock offset: -8.046 ms

# Below is generated by plot.py at 2018-04-24 23:48:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.50 Mbit/s
95th percentile per-packet one-way delay: 13.065 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 62.88 Mbit/s
95th percentile per-packet one-way delay: 12.725 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 45.84 Mbit/s
95th percentile per-packet one-way delay: 13.747 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.32 Mbit/s
95th percentile per-packet one-way delay: 13.156 ms
Loss rate: 0.00%
```

Run 2: Report of TCP BBR — Data Link

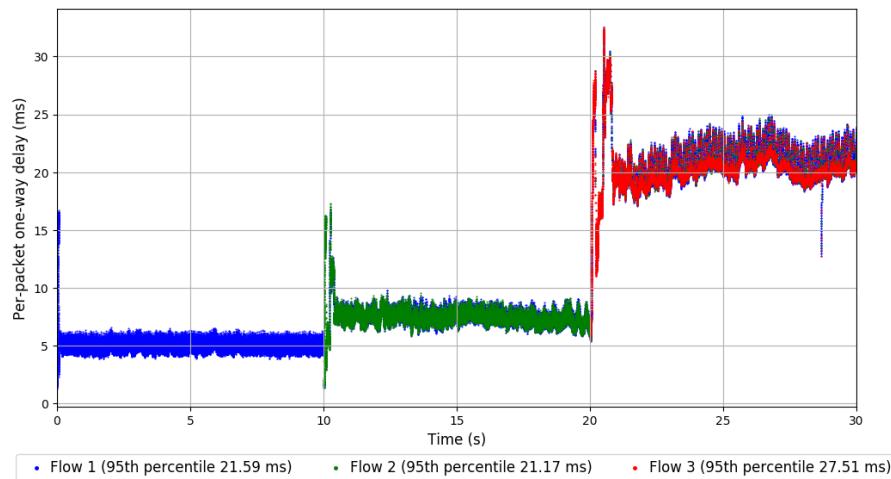
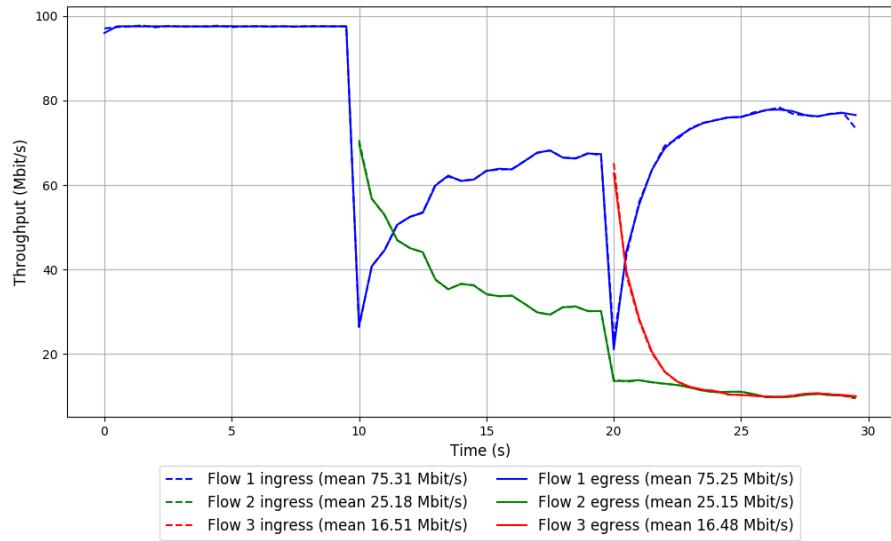


Run 3: Statistics of TCP BBR

```
Start at: 2018-04-24 20:58:45
End at: 2018-04-24 20:59:15
Local clock offset: -4.273 ms
Remote clock offset: -6.931 ms

# Below is generated by plot.py at 2018-04-24 23:48:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 21.765 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 75.25 Mbit/s
95th percentile per-packet one-way delay: 21.585 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 25.15 Mbit/s
95th percentile per-packet one-way delay: 21.167 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 16.48 Mbit/s
95th percentile per-packet one-way delay: 27.512 ms
Loss rate: 0.01%
```

Run 3: Report of TCP BBR — Data Link

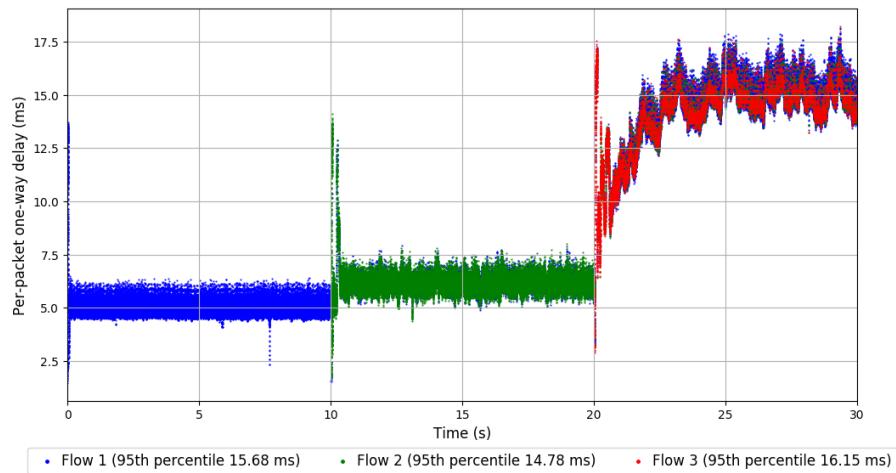
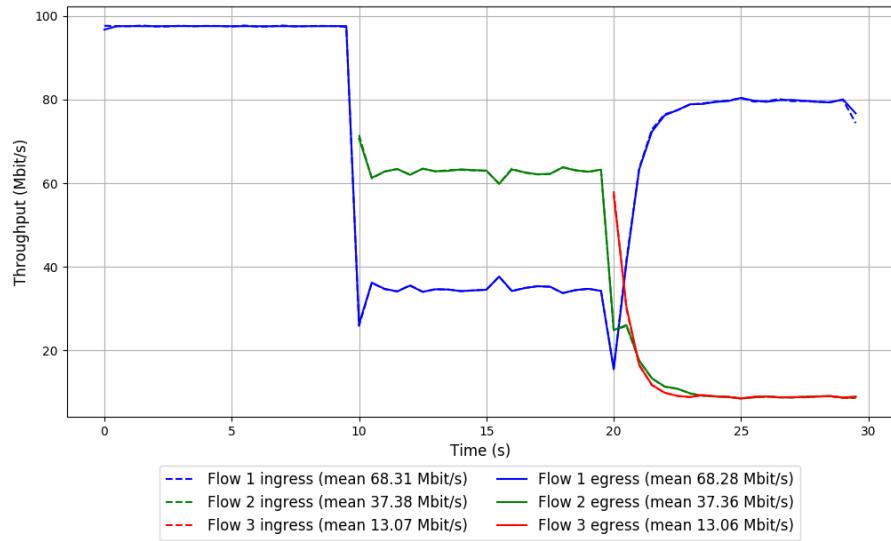


Run 4: Statistics of TCP BBR

```
Start at: 2018-04-24 21:17:57
End at: 2018-04-24 21:18:27
Local clock offset: -5.606 ms
Remote clock offset: -5.104 ms

# Below is generated by plot.py at 2018-04-24 23:48:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.50 Mbit/s
95th percentile per-packet one-way delay: 15.603 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 68.28 Mbit/s
95th percentile per-packet one-way delay: 15.678 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.36 Mbit/s
95th percentile per-packet one-way delay: 14.782 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 13.06 Mbit/s
95th percentile per-packet one-way delay: 16.153 ms
Loss rate: 0.00%
```

Run 4: Report of TCP BBR — Data Link

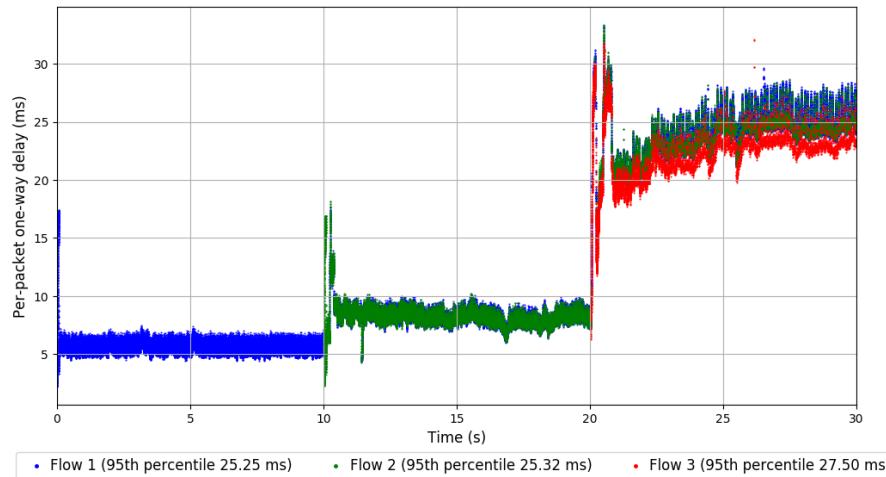
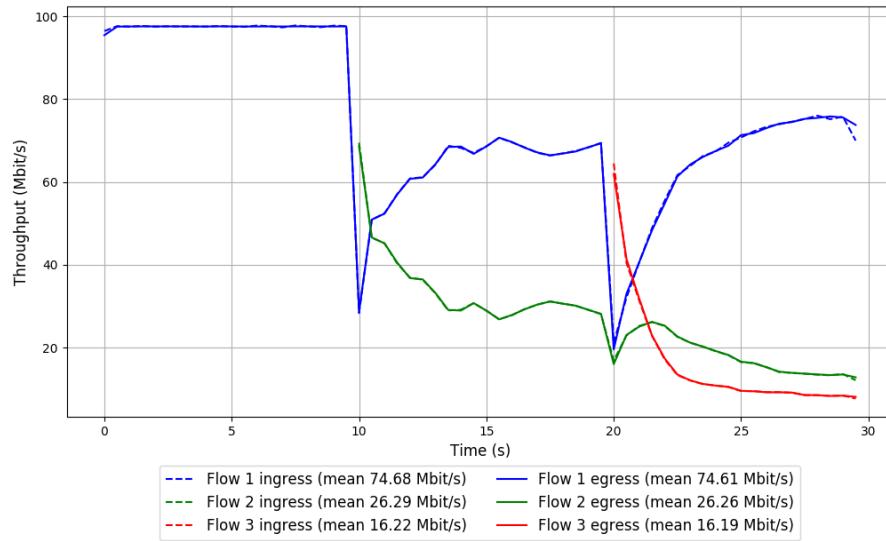


Run 5: Statistics of TCP BBR

```
Start at: 2018-04-24 21:37:09
End at: 2018-04-24 21:37:39
Local clock offset: -4.834 ms
Remote clock offset: -4.766 ms

# Below is generated by plot.py at 2018-04-24 23:48:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 25.378 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 74.61 Mbit/s
95th percentile per-packet one-way delay: 25.252 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 26.26 Mbit/s
95th percentile per-packet one-way delay: 25.325 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 16.19 Mbit/s
95th percentile per-packet one-way delay: 27.502 ms
Loss rate: 0.04%
```

Run 5: Report of TCP BBR — Data Link

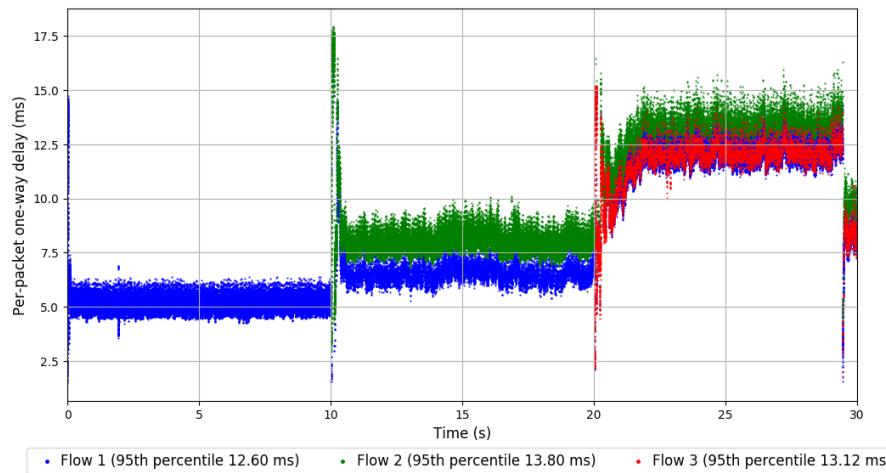
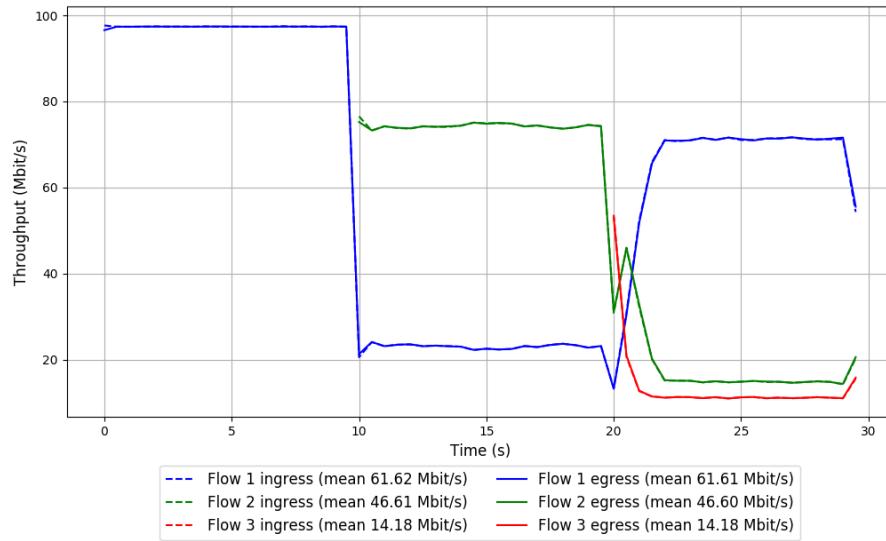


Run 6: Statistics of TCP BBR

```
Start at: 2018-04-24 21:56:18
End at: 2018-04-24 21:56:48
Local clock offset: -5.926 ms
Remote clock offset: -4.48 ms

# Below is generated by plot.py at 2018-04-24 23:48:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.35 Mbit/s
95th percentile per-packet one-way delay: 13.129 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.61 Mbit/s
95th percentile per-packet one-way delay: 12.603 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.60 Mbit/s
95th percentile per-packet one-way delay: 13.801 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 14.18 Mbit/s
95th percentile per-packet one-way delay: 13.117 ms
Loss rate: 0.00%
```

Run 6: Report of TCP BBR — Data Link

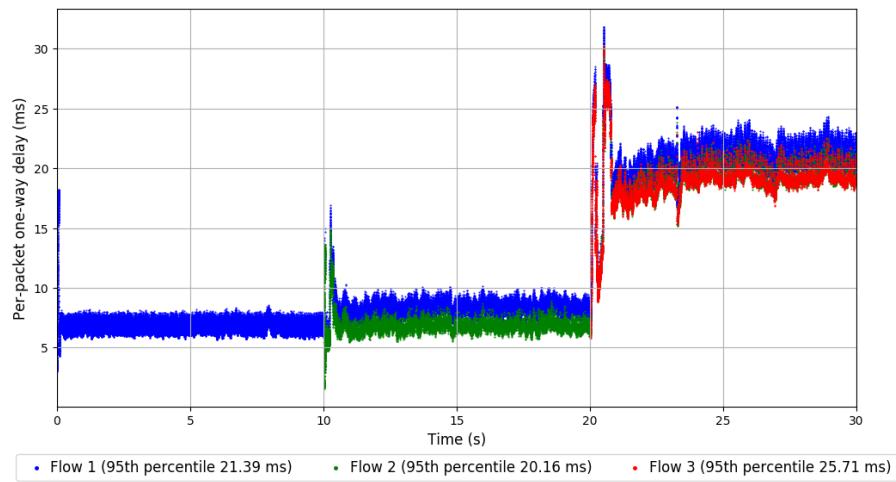
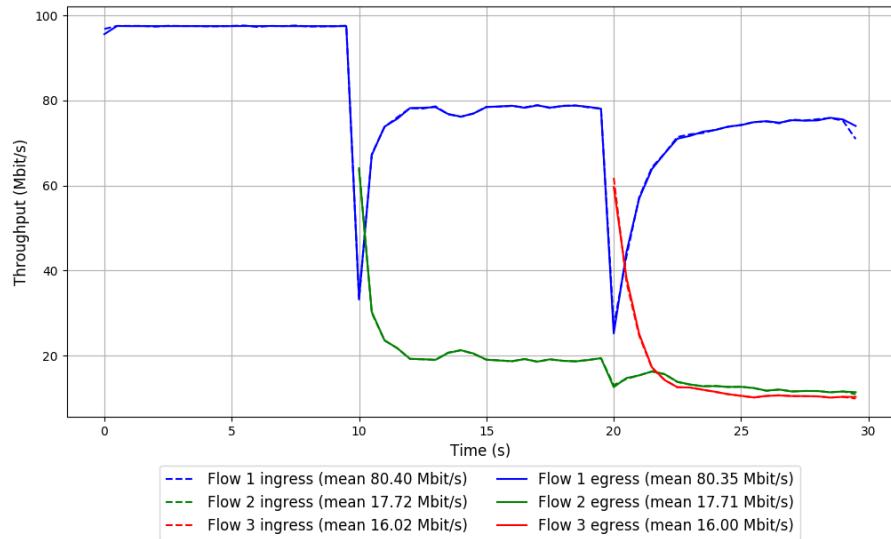


Run 7: Statistics of TCP BBR

```
Start at: 2018-04-24 22:15:29
End at: 2018-04-24 22:15:59
Local clock offset: -6.059 ms
Remote clock offset: -4.138 ms

# Below is generated by plot.py at 2018-04-24 23:48:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 21.392 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 80.35 Mbit/s
95th percentile per-packet one-way delay: 21.390 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 17.71 Mbit/s
95th percentile per-packet one-way delay: 20.159 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 16.00 Mbit/s
95th percentile per-packet one-way delay: 25.712 ms
Loss rate: 0.00%
```

Run 7: Report of TCP BBR — Data Link

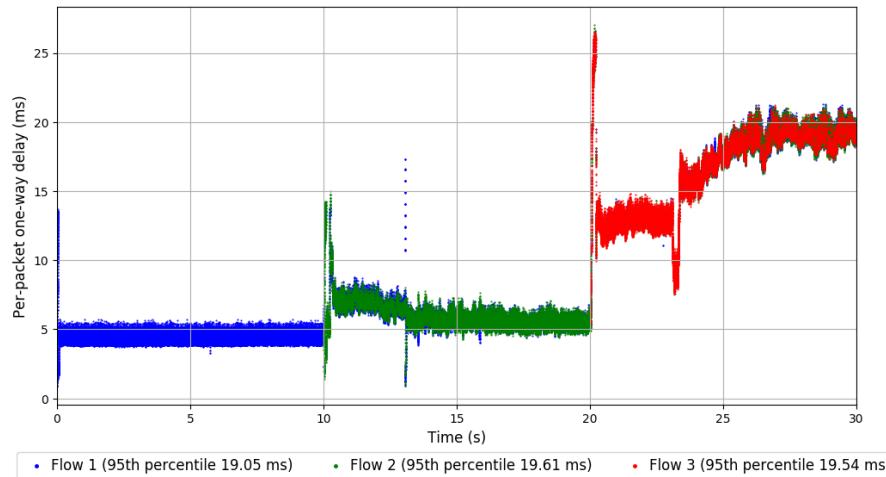
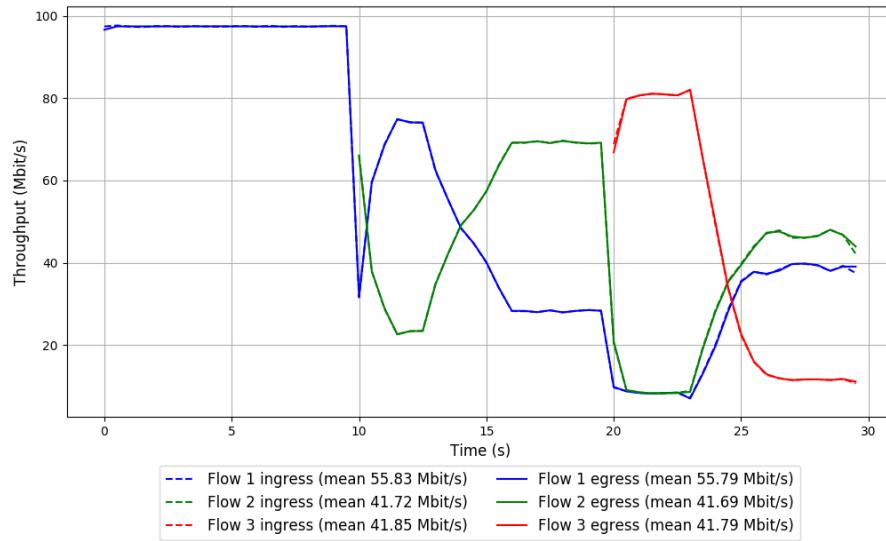


Run 8: Statistics of TCP BBR

```
Start at: 2018-04-24 22:34:41
End at: 2018-04-24 22:35:11
Local clock offset: -5.381 ms
Remote clock offset: -3.741 ms

# Below is generated by plot.py at 2018-04-24 23:48:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 19.342 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.79 Mbit/s
95th percentile per-packet one-way delay: 19.053 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.69 Mbit/s
95th percentile per-packet one-way delay: 19.612 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 41.79 Mbit/s
95th percentile per-packet one-way delay: 19.543 ms
Loss rate: 0.00%
```

Run 8: Report of TCP BBR — Data Link

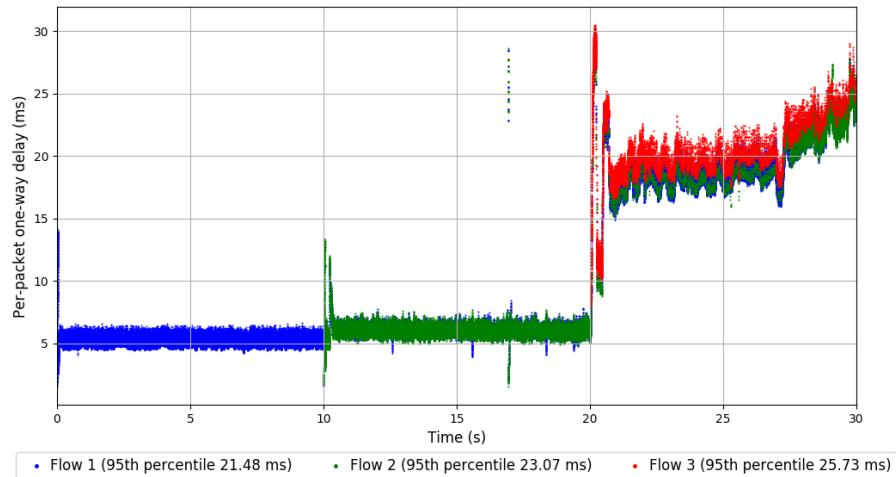
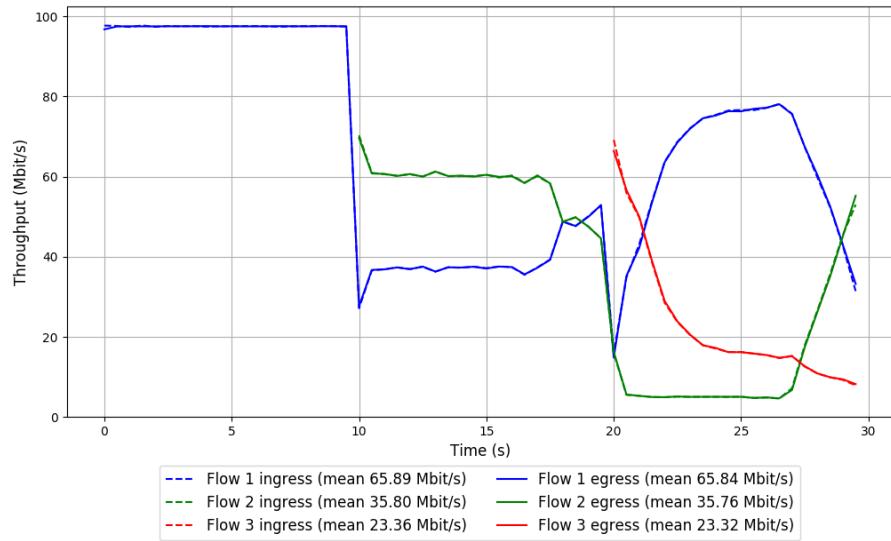


Run 9: Statistics of TCP BBR

```
Start at: 2018-04-24 22:53:53
End at: 2018-04-24 22:54:23
Local clock offset: -5.768 ms
Remote clock offset: -6.155 ms

# Below is generated by plot.py at 2018-04-24 23:50:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.42 Mbit/s
95th percentile per-packet one-way delay: 22.453 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 65.84 Mbit/s
95th percentile per-packet one-way delay: 21.478 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.76 Mbit/s
95th percentile per-packet one-way delay: 23.071 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 23.32 Mbit/s
95th percentile per-packet one-way delay: 25.729 ms
Loss rate: 0.01%
```

Run 9: Report of TCP BBR — Data Link

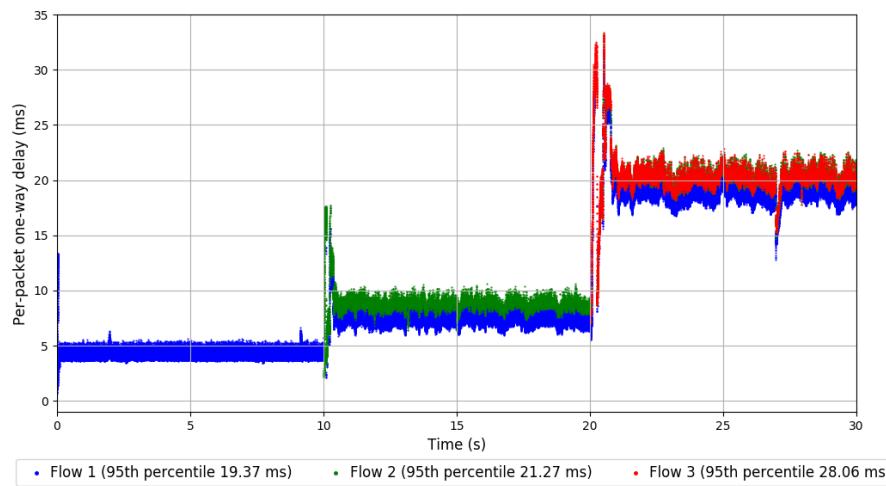
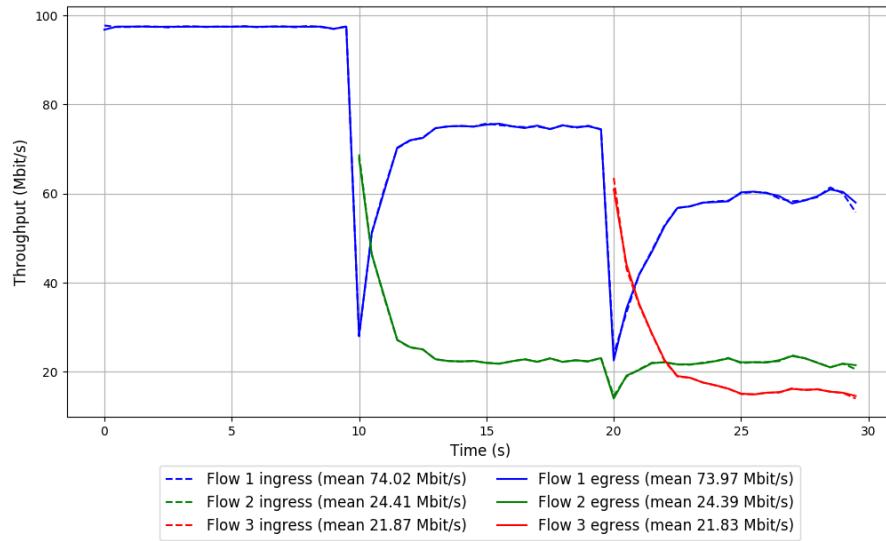


Run 10: Statistics of TCP BBR

```
Start at: 2018-04-24 23:13:04
End at: 2018-04-24 23:13:34
Local clock offset: -4.779 ms
Remote clock offset: -6.734 ms

# Below is generated by plot.py at 2018-04-24 23:50:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 20.655 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 73.97 Mbit/s
95th percentile per-packet one-way delay: 19.370 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.39 Mbit/s
95th percentile per-packet one-way delay: 21.267 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 21.83 Mbit/s
95th percentile per-packet one-way delay: 28.064 ms
Loss rate: 0.03%
```

Run 10: Report of TCP BBR — Data Link

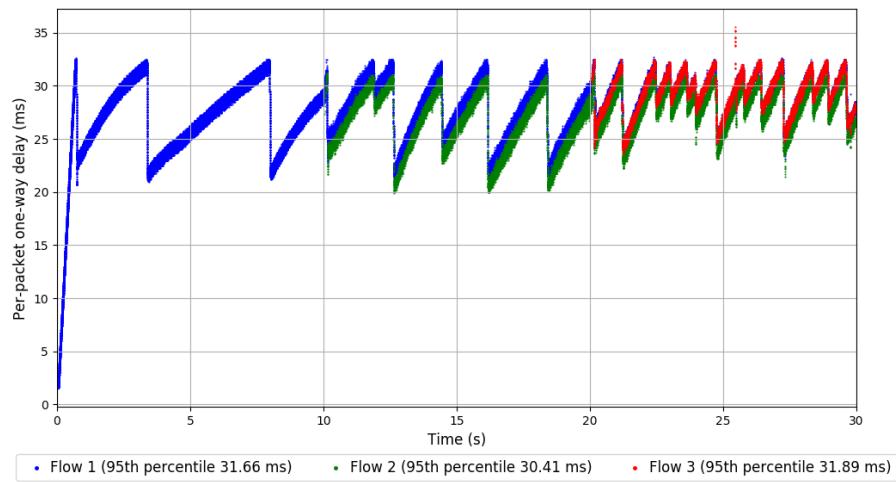
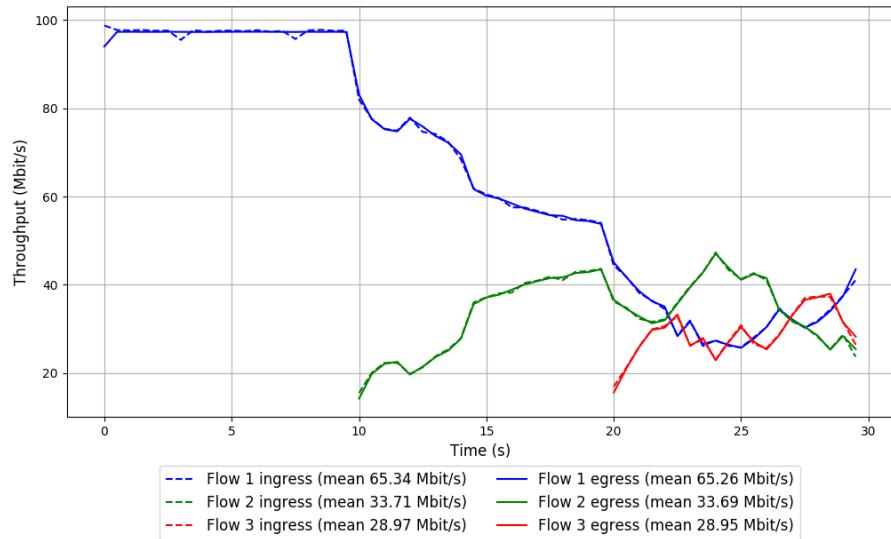


```
Run 1: Statistics of TCP Cubic

Start at: 2018-04-24 20:23:44
End at: 2018-04-24 20:24:14
Local clock offset: -4.259 ms
Remote clock offset: -7.695 ms

# Below is generated by plot.py at 2018-04-24 23:50:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.28 Mbit/s
95th percentile per-packet one-way delay: 31.482 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 65.26 Mbit/s
95th percentile per-packet one-way delay: 31.656 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 33.69 Mbit/s
95th percentile per-packet one-way delay: 30.408 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 28.95 Mbit/s
95th percentile per-packet one-way delay: 31.893 ms
Loss rate: 0.06%
```

Run 1: Report of TCP Cubic — Data Link

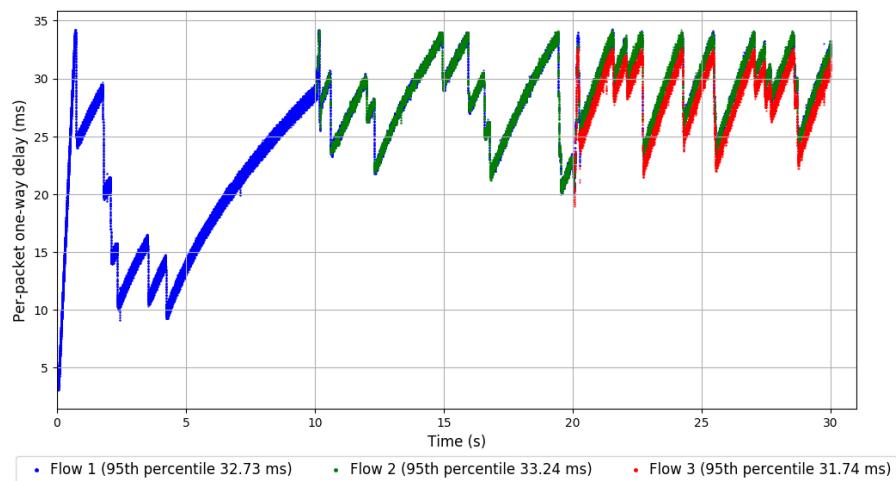
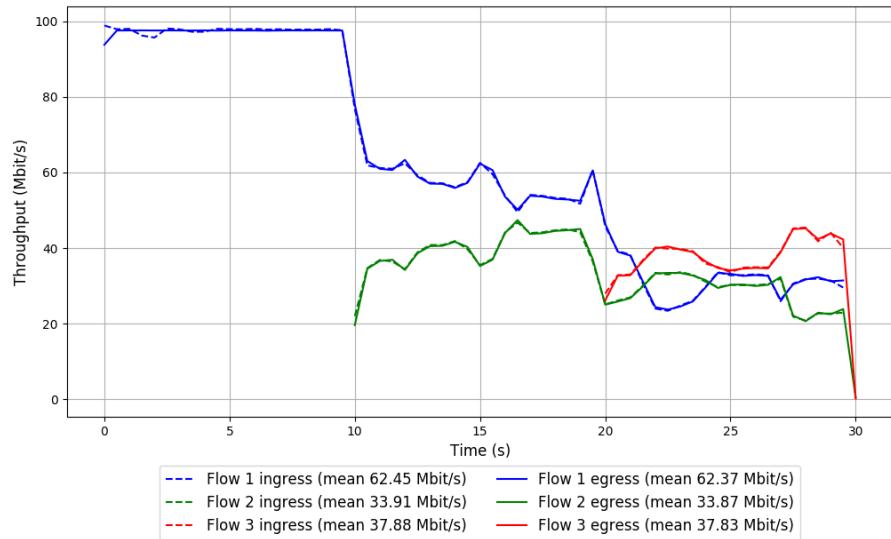


Run 2: Statistics of TCP Cubic

```
Start at: 2018-04-24 20:42:57
End at: 2018-04-24 20:43:27
Local clock offset: -5.706 ms
Remote clock offset: -8.115 ms

# Below is generated by plot.py at 2018-04-24 23:50:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 32.766 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 62.37 Mbit/s
95th percentile per-packet one-way delay: 32.726 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 33.87 Mbit/s
95th percentile per-packet one-way delay: 33.237 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 37.83 Mbit/s
95th percentile per-packet one-way delay: 31.743 ms
Loss rate: 0.03%
```

Run 2: Report of TCP Cubic — Data Link

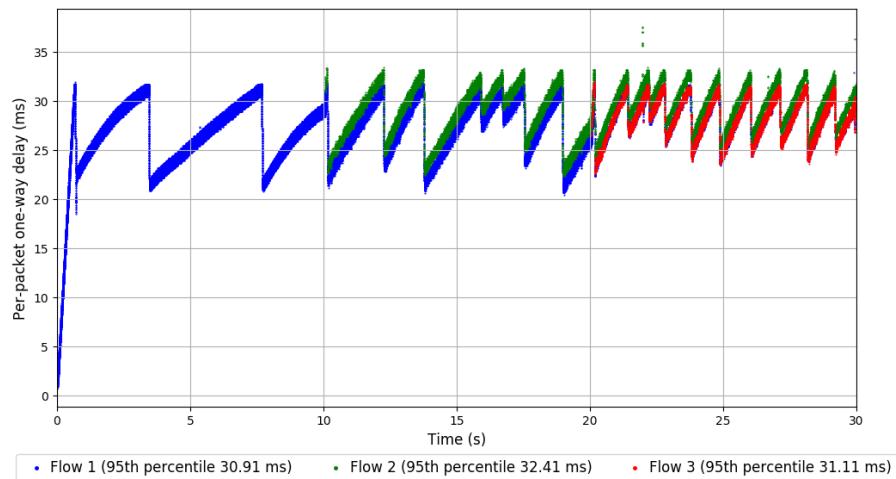
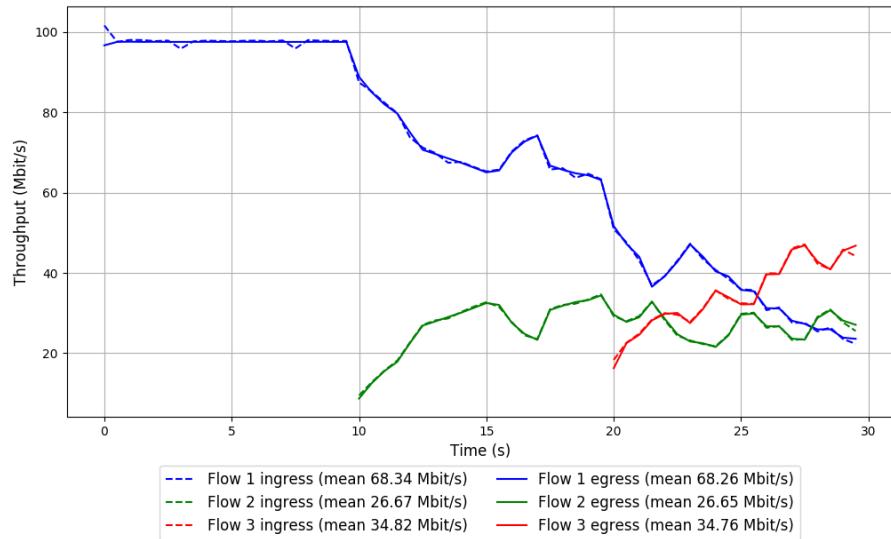


Run 3: Statistics of TCP Cubic

```
Start at: 2018-04-24 21:02:10
End at: 2018-04-24 21:02:40
Local clock offset: -5.037 ms
Remote clock offset: -6.305 ms

# Below is generated by plot.py at 2018-04-24 23:50:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.51 Mbit/s
95th percentile per-packet one-way delay: 31.383 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 68.26 Mbit/s
95th percentile per-packet one-way delay: 30.909 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 26.65 Mbit/s
95th percentile per-packet one-way delay: 32.414 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 34.76 Mbit/s
95th percentile per-packet one-way delay: 31.109 ms
Loss rate: 0.15%
```

Run 3: Report of TCP Cubic — Data Link

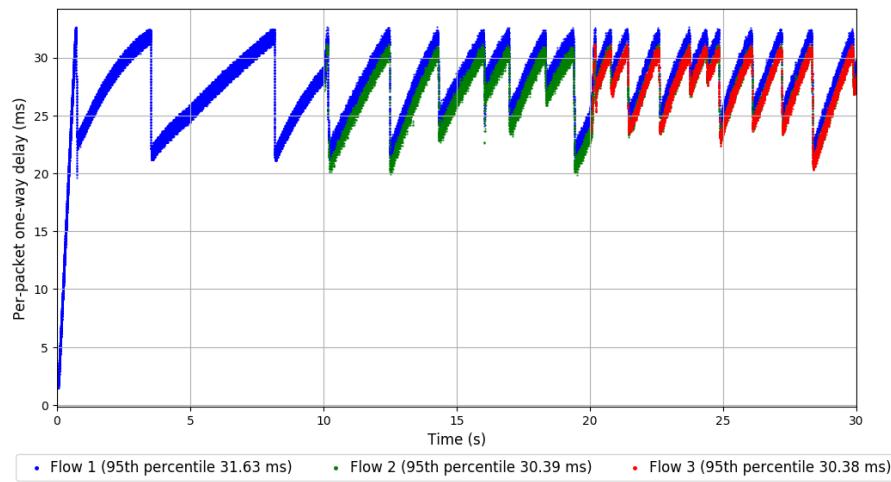
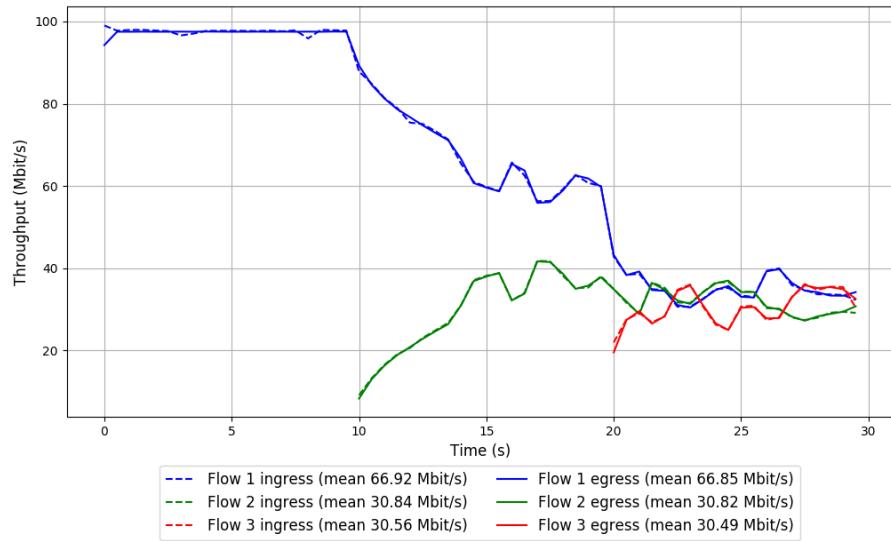


Run 4: Statistics of TCP Cubic

```
Start at: 2018-04-24 21:21:22
End at: 2018-04-24 21:21:52
Local clock offset: -4.087 ms
Remote clock offset: -5.029 ms

# Below is generated by plot.py at 2018-04-24 23:50:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 31.409 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 66.85 Mbit/s
95th percentile per-packet one-way delay: 31.630 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 30.82 Mbit/s
95th percentile per-packet one-way delay: 30.389 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 30.49 Mbit/s
95th percentile per-packet one-way delay: 30.378 ms
Loss rate: 0.18%
```

Run 4: Report of TCP Cubic — Data Link

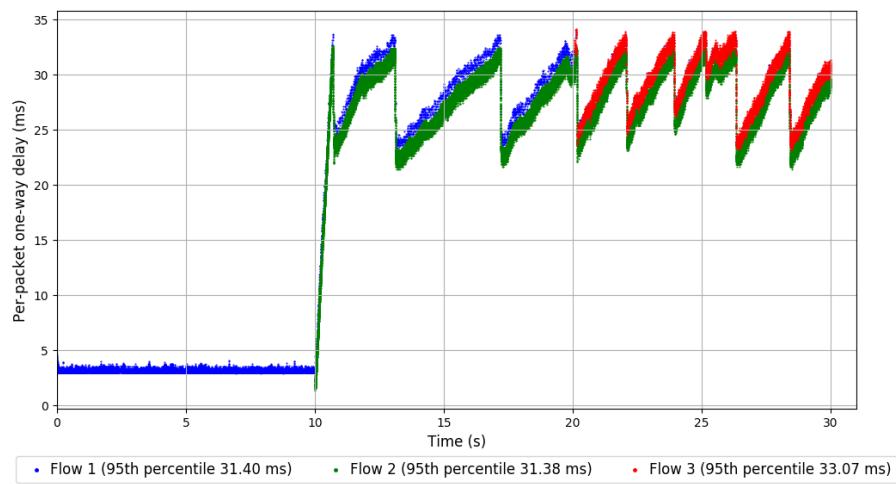
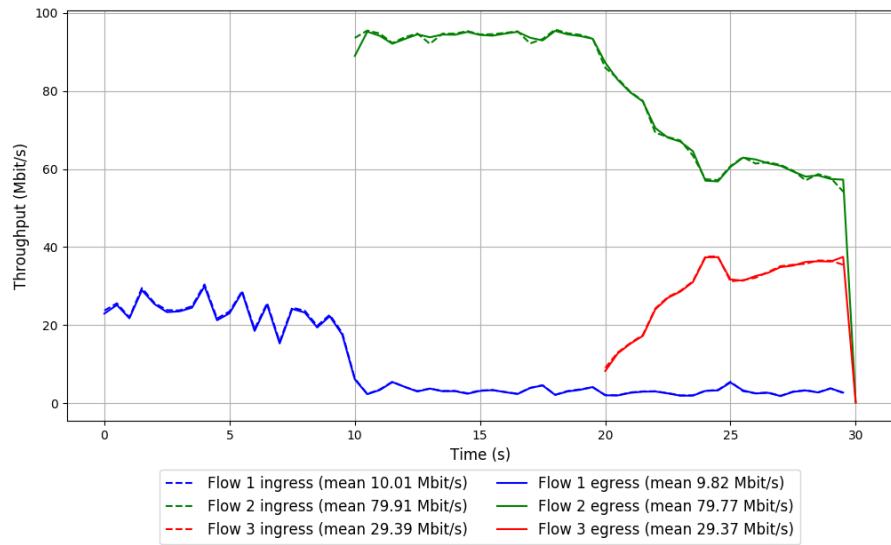


Run 5: Statistics of TCP Cubic

```
Start at: 2018-04-24 21:40:33
End at: 2018-04-24 21:41:03
Local clock offset: -5.658 ms
Remote clock offset: -4.77 ms

# Below is generated by plot.py at 2018-04-24 23:50:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.71 Mbit/s
95th percentile per-packet one-way delay: 31.837 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 9.82 Mbit/s
95th percentile per-packet one-way delay: 31.399 ms
Loss rate: 1.79%
-- Flow 2:
Average throughput: 79.77 Mbit/s
95th percentile per-packet one-way delay: 31.375 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 29.37 Mbit/s
95th percentile per-packet one-way delay: 33.072 ms
Loss rate: 0.06%
```

Run 5: Report of TCP Cubic — Data Link

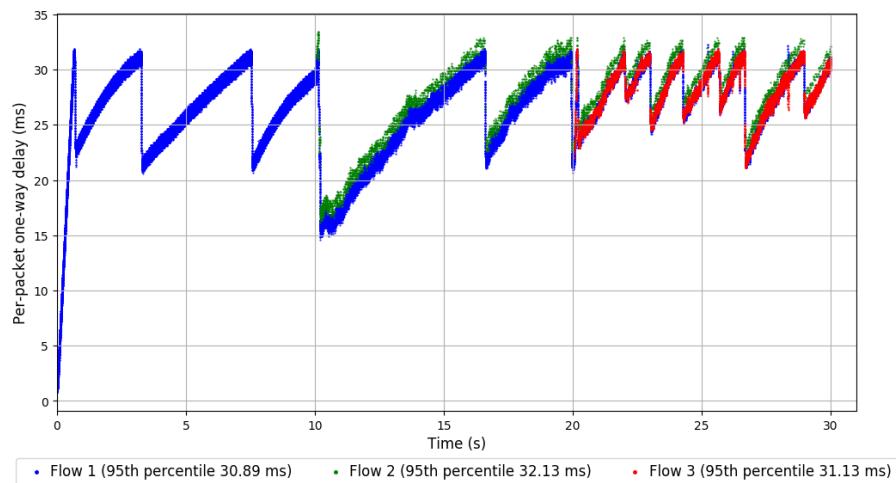
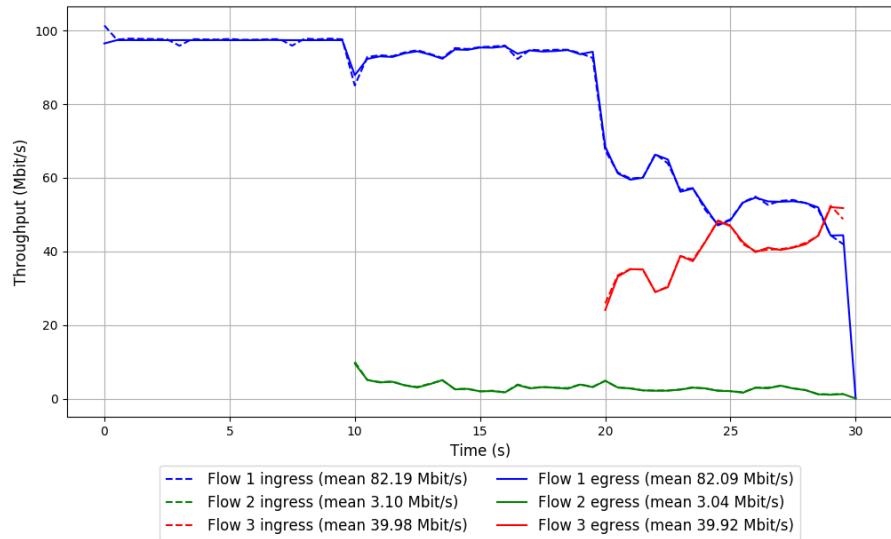


Run 6: Statistics of TCP Cubic

```
Start at: 2018-04-24 21:59:42
End at: 2018-04-24 22:00:12
Local clock offset: -5.171 ms
Remote clock offset: -4.425 ms

# Below is generated by plot.py at 2018-04-24 23:50:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.37 Mbit/s
95th percentile per-packet one-way delay: 30.916 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 82.09 Mbit/s
95th percentile per-packet one-way delay: 30.894 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 3.04 Mbit/s
95th percentile per-packet one-way delay: 32.127 ms
Loss rate: 1.94%
-- Flow 3:
Average throughput: 39.92 Mbit/s
95th percentile per-packet one-way delay: 31.129 ms
Loss rate: 0.05%
```

Run 6: Report of TCP Cubic — Data Link

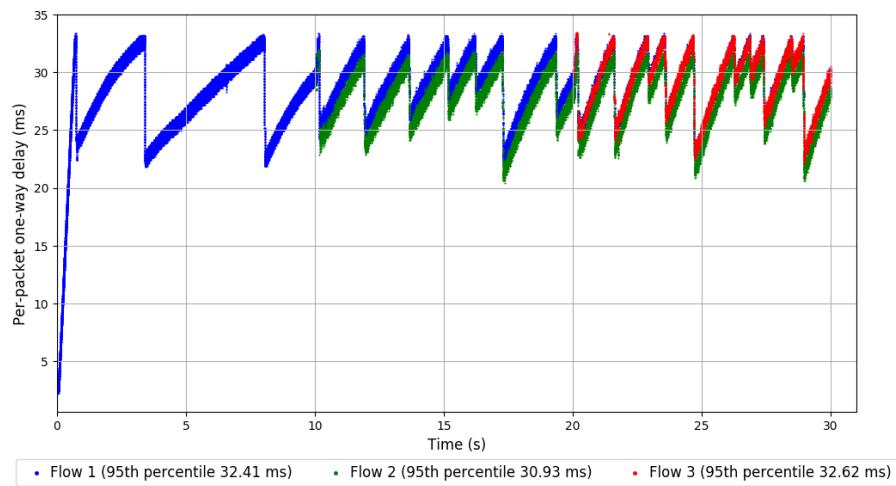
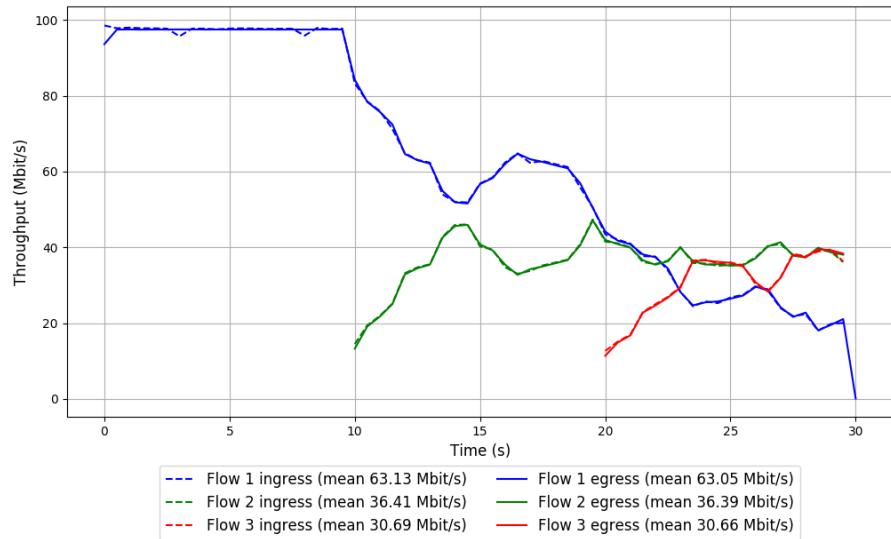


Run 7: Statistics of TCP Cubic

```
Start at: 2018-04-24 22:18:54
End at: 2018-04-24 22:19:24
Local clock offset: -5.243 ms
Remote clock offset: -4.076 ms

# Below is generated by plot.py at 2018-04-24 23:51:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.43 Mbit/s
95th percentile per-packet one-way delay: 32.371 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 63.05 Mbit/s
95th percentile per-packet one-way delay: 32.411 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 36.39 Mbit/s
95th percentile per-packet one-way delay: 30.925 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 30.66 Mbit/s
95th percentile per-packet one-way delay: 32.624 ms
Loss rate: 0.11%
```

Run 7: Report of TCP Cubic — Data Link

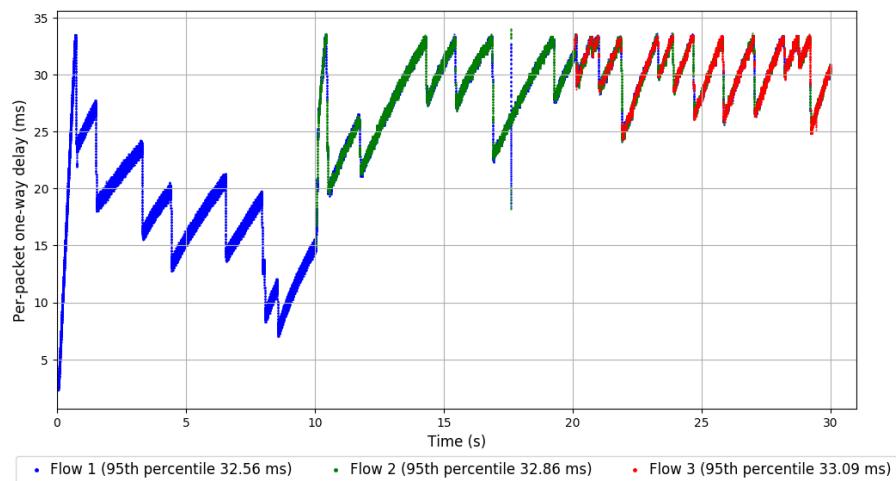
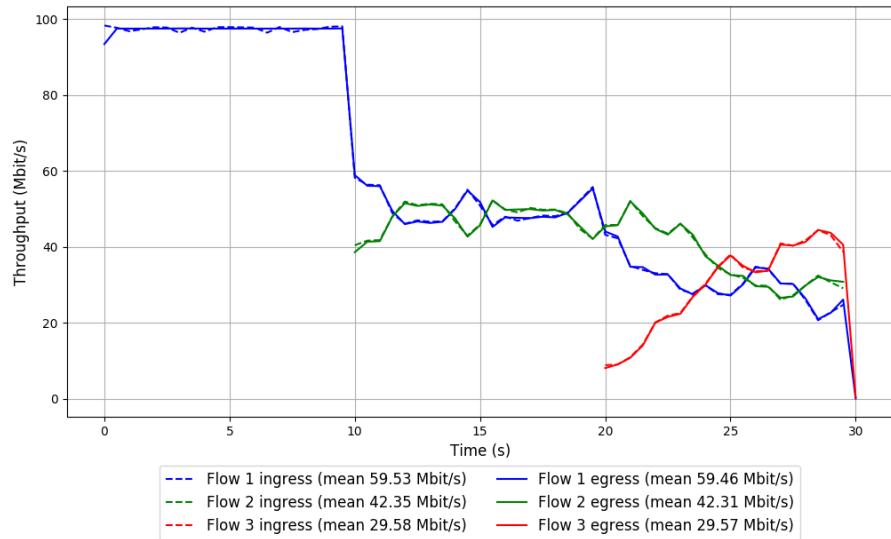


Run 8: Statistics of TCP Cubic

```
Start at: 2018-04-24 22:38:05
End at: 2018-04-24 22:38:35
Local clock offset: -5.379 ms
Remote clock offset: -4.458 ms

# Below is generated by plot.py at 2018-04-24 23:51:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.43 Mbit/s
95th percentile per-packet one-way delay: 32.815 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 59.46 Mbit/s
95th percentile per-packet one-way delay: 32.559 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 42.31 Mbit/s
95th percentile per-packet one-way delay: 32.858 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 29.57 Mbit/s
95th percentile per-packet one-way delay: 33.095 ms
Loss rate: 0.03%
```

Run 8: Report of TCP Cubic — Data Link

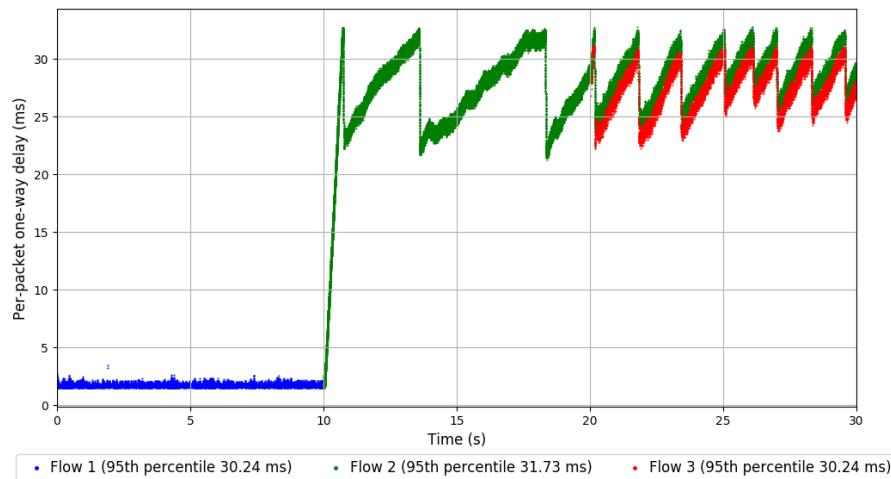
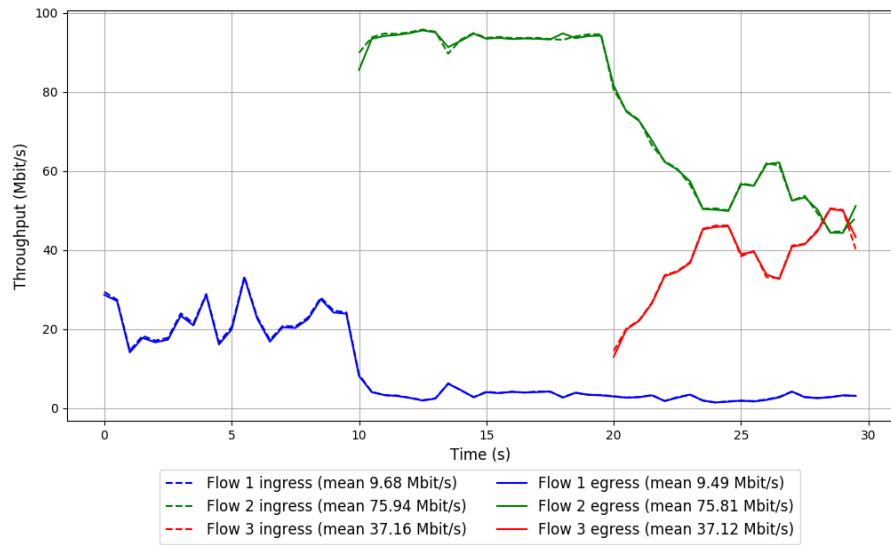


Run 9: Statistics of TCP Cubic

```
Start at: 2018-04-24 22:57:17
End at: 2018-04-24 22:57:47
Local clock offset: -4.207 ms
Remote clock offset: -6.322 ms

# Below is generated by plot.py at 2018-04-24 23:51:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.31 Mbit/s
95th percentile per-packet one-way delay: 31.523 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 9.49 Mbit/s
95th percentile per-packet one-way delay: 30.239 ms
Loss rate: 1.88%
-- Flow 2:
Average throughput: 75.81 Mbit/s
95th percentile per-packet one-way delay: 31.732 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 37.12 Mbit/s
95th percentile per-packet one-way delay: 30.241 ms
Loss rate: 0.09%
```

Run 9: Report of TCP Cubic — Data Link

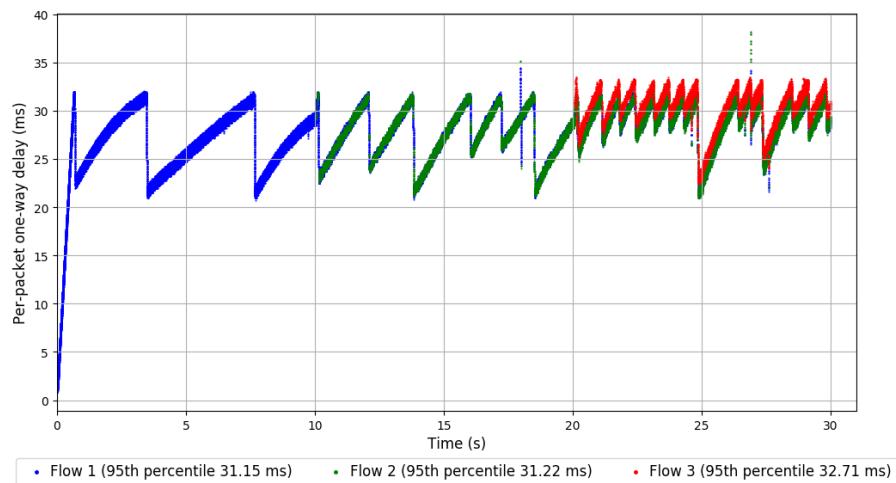
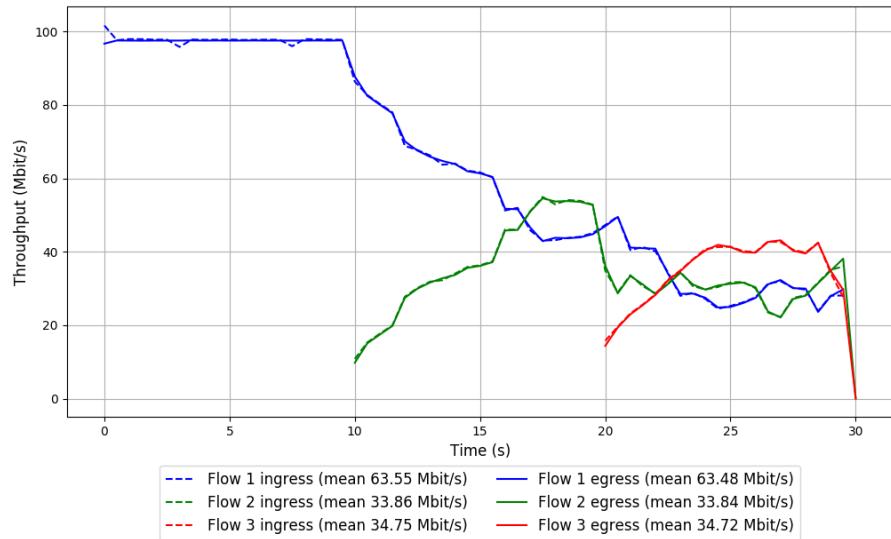


```
Run 10: Statistics of TCP Cubic
```

```
Start at: 2018-04-24 23:16:28
End at: 2018-04-24 23:16:58
Local clock offset: -4.807 ms
Remote clock offset: -6.668 ms

# Below is generated by plot.py at 2018-04-24 23:51:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.51 Mbit/s
95th percentile per-packet one-way delay: 31.471 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 63.48 Mbit/s
95th percentile per-packet one-way delay: 31.149 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 33.84 Mbit/s
95th percentile per-packet one-way delay: 31.216 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 34.72 Mbit/s
95th percentile per-packet one-way delay: 32.709 ms
Loss rate: 0.07%
```

Run 10: Report of TCP Cubic — Data Link

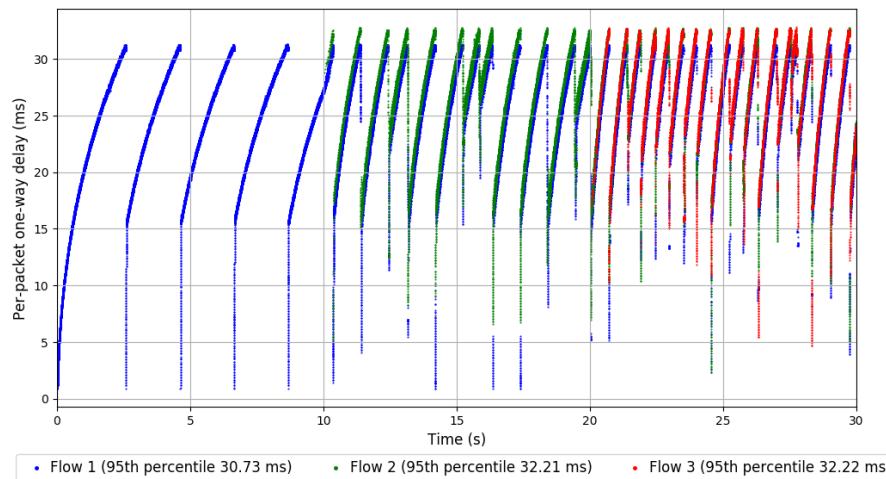
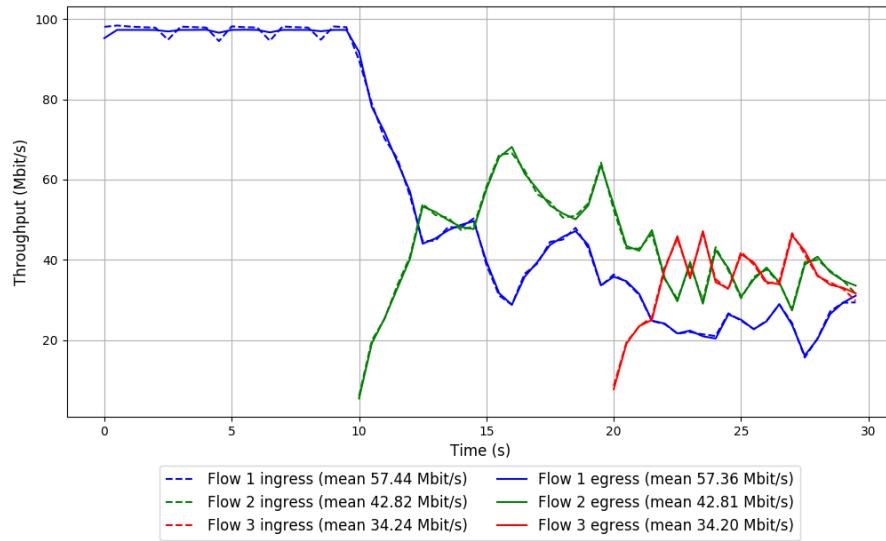


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2018-04-24 20:22:35
End at: 2018-04-24 20:23:05
Local clock offset: -5.067 ms
Remote clock offset: -7.661 ms

# Below is generated by plot.py at 2018-04-24 23:51:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.19 Mbit/s
95th percentile per-packet one-way delay: 31.514 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 57.36 Mbit/s
95th percentile per-packet one-way delay: 30.732 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 42.81 Mbit/s
95th percentile per-packet one-way delay: 32.211 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 34.20 Mbit/s
95th percentile per-packet one-way delay: 32.217 ms
Loss rate: 0.06%
```

Run 1: Report of LEDBAT — Data Link

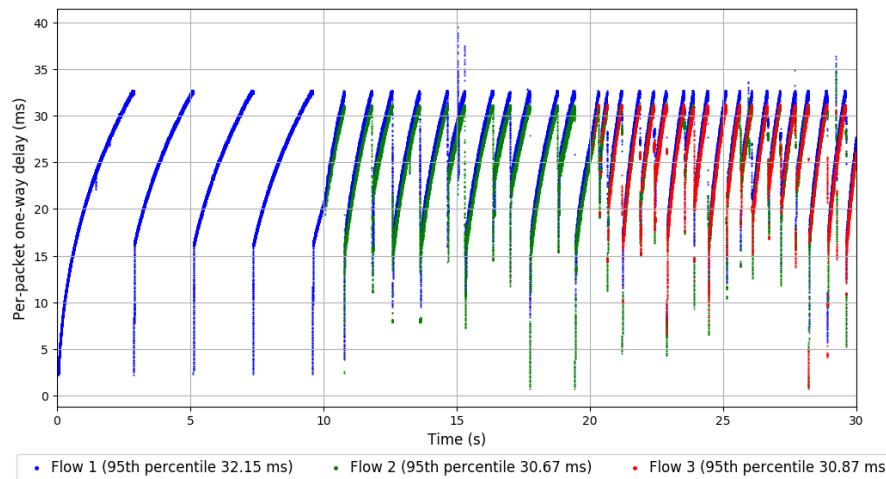
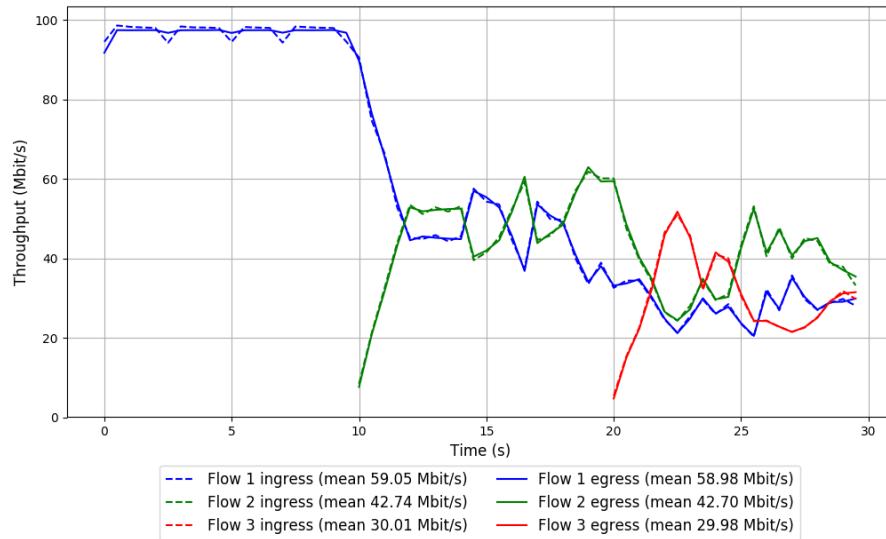


Run 2: Statistics of LEDBAT

```
Start at: 2018-04-24 20:41:47
End at: 2018-04-24 20:42:17
Local clock offset: -4.918 ms
Remote clock offset: -8.088 ms

# Below is generated by plot.py at 2018-04-24 23:51:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.32 Mbit/s
95th percentile per-packet one-way delay: 31.812 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 58.98 Mbit/s
95th percentile per-packet one-way delay: 32.145 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 42.70 Mbit/s
95th percentile per-packet one-way delay: 30.672 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 29.98 Mbit/s
95th percentile per-packet one-way delay: 30.866 ms
Loss rate: 0.12%
```

Run 2: Report of LEDBAT — Data Link

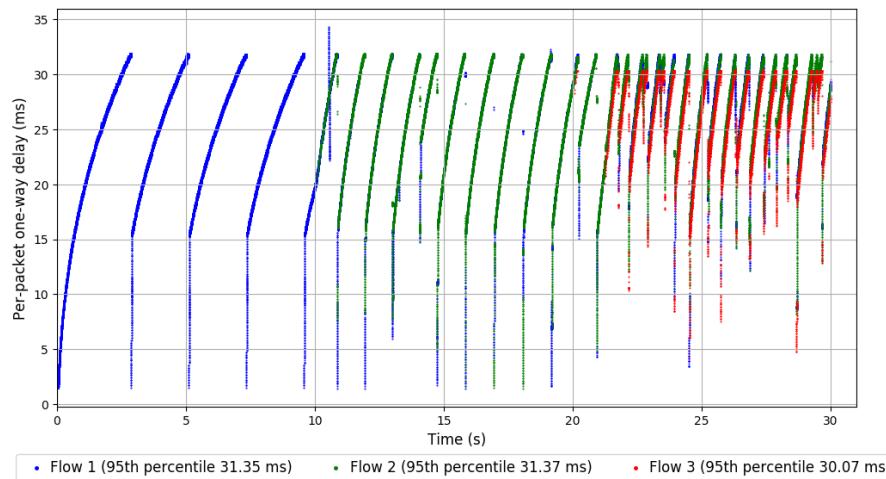
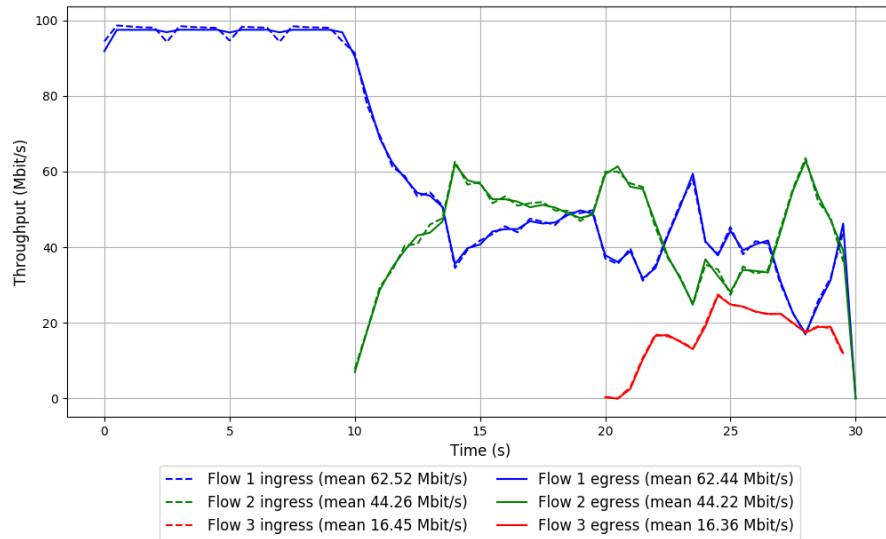


Run 3: Statistics of LEDBAT

```
Start at: 2018-04-24 21:01:00
End at: 2018-04-24 21:01:30
Local clock offset: -4.273 ms
Remote clock offset: -6.49 ms

# Below is generated by plot.py at 2018-04-24 23:51:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.29 Mbit/s
95th percentile per-packet one-way delay: 31.341 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 62.44 Mbit/s
95th percentile per-packet one-way delay: 31.350 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 44.22 Mbit/s
95th percentile per-packet one-way delay: 31.369 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 16.36 Mbit/s
95th percentile per-packet one-way delay: 30.068 ms
Loss rate: 0.53%
```

Run 3: Report of LEDBAT — Data Link

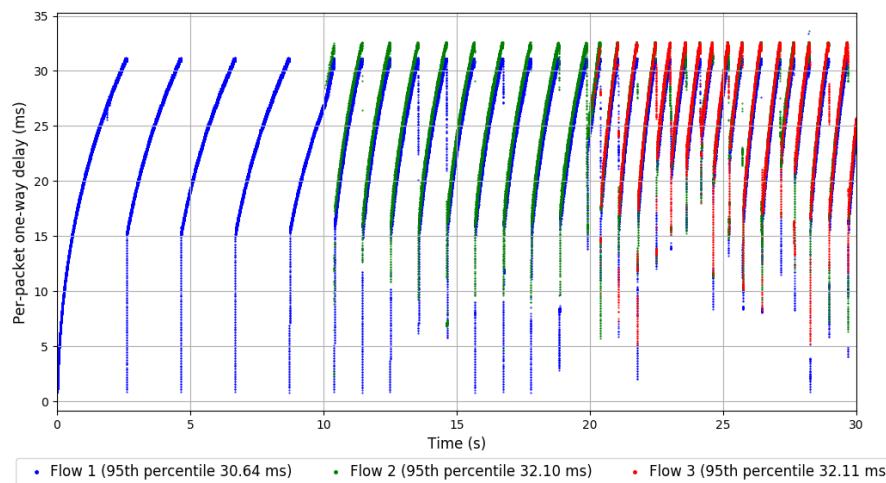
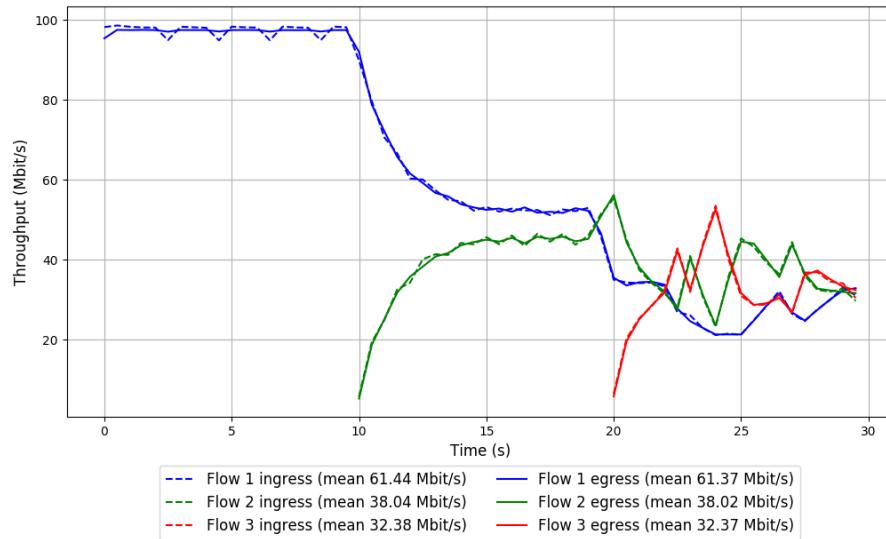


Run 4: Statistics of LEDBAT

```
Start at: 2018-04-24 21:20:12
End at: 2018-04-24 21:20:42
Local clock offset: -4.796 ms
Remote clock offset: -5.01 ms

# Below is generated by plot.py at 2018-04-24 23:51:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.38 Mbit/s
95th percentile per-packet one-way delay: 31.339 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 61.37 Mbit/s
95th percentile per-packet one-way delay: 30.636 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 38.02 Mbit/s
95th percentile per-packet one-way delay: 32.103 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 32.37 Mbit/s
95th percentile per-packet one-way delay: 32.113 ms
Loss rate: 0.05%
```

Run 4: Report of LEDBAT — Data Link

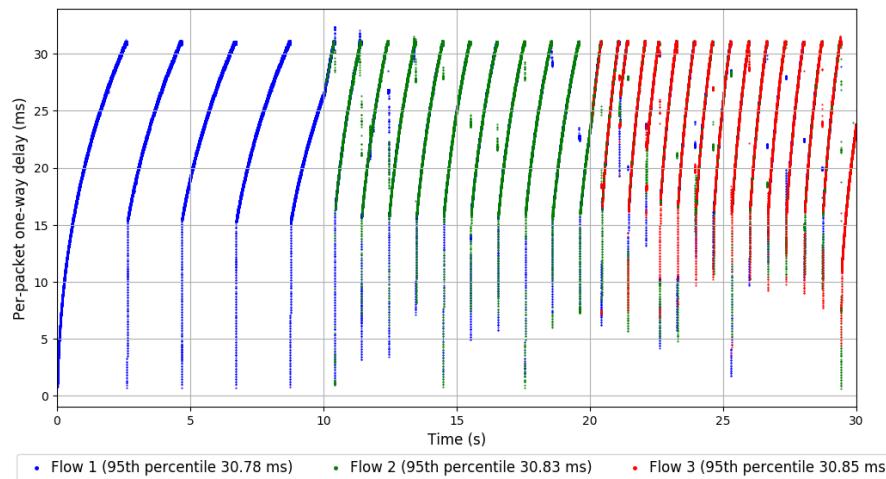
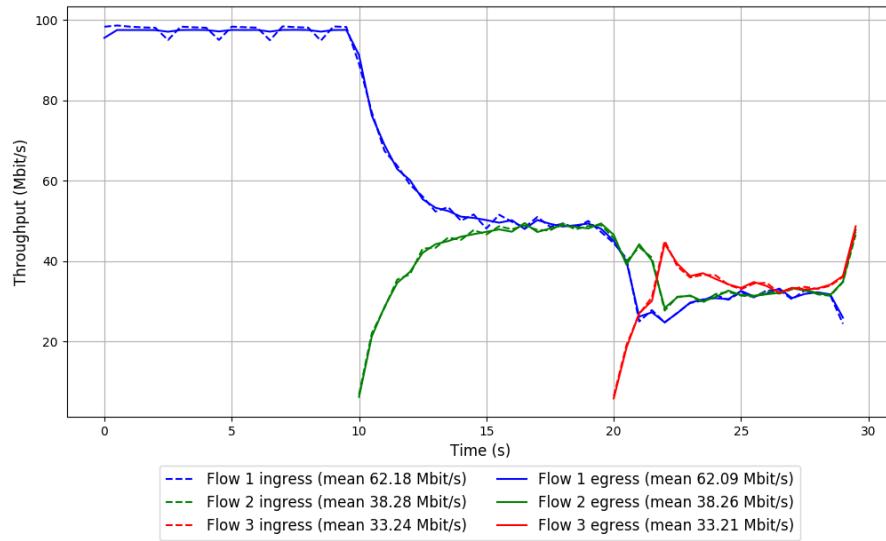


Run 5: Statistics of LEDBAT

```
Start at: 2018-04-24 21:39:23
End at: 2018-04-24 21:39:53
Local clock offset: -4.868 ms
Remote clock offset: -4.795 ms

# Below is generated by plot.py at 2018-04-24 23:52:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.40 Mbit/s
95th percentile per-packet one-way delay: 30.810 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 62.09 Mbit/s
95th percentile per-packet one-way delay: 30.776 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 38.26 Mbit/s
95th percentile per-packet one-way delay: 30.831 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 33.21 Mbit/s
95th percentile per-packet one-way delay: 30.853 ms
Loss rate: 0.09%
```

Run 5: Report of LEDBAT — Data Link

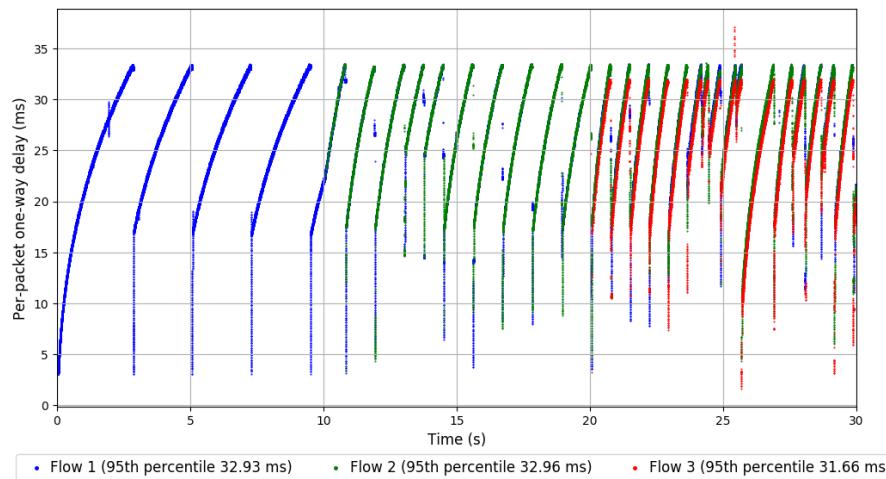
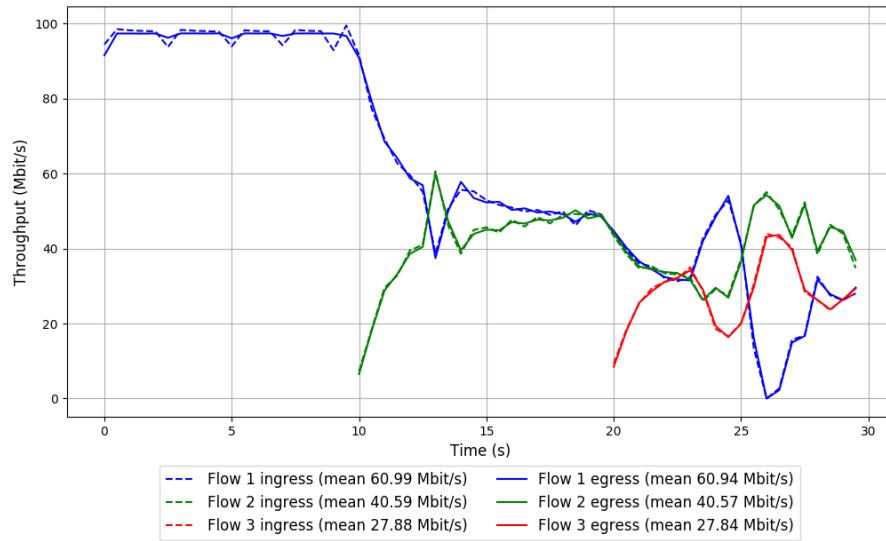


Run 6: Statistics of LEDBAT

```
Start at: 2018-04-24 21:58:32
End at: 2018-04-24 21:59:02
Local clock offset: -5.988 ms
Remote clock offset: -4.441 ms

# Below is generated by plot.py at 2018-04-24 23:52:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.17 Mbit/s
95th percentile per-packet one-way delay: 32.921 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 60.94 Mbit/s
95th percentile per-packet one-way delay: 32.932 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 40.57 Mbit/s
95th percentile per-packet one-way delay: 32.957 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 27.84 Mbit/s
95th percentile per-packet one-way delay: 31.661 ms
Loss rate: 0.20%
```

Run 6: Report of LEDBAT — Data Link

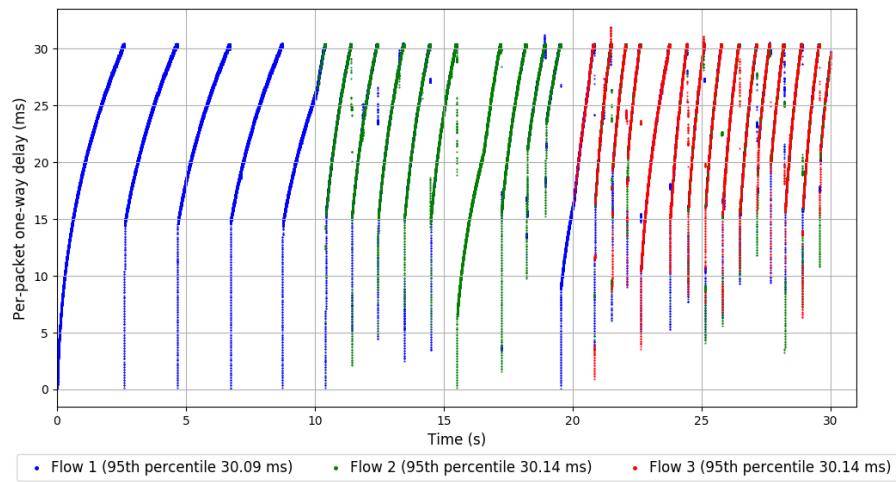
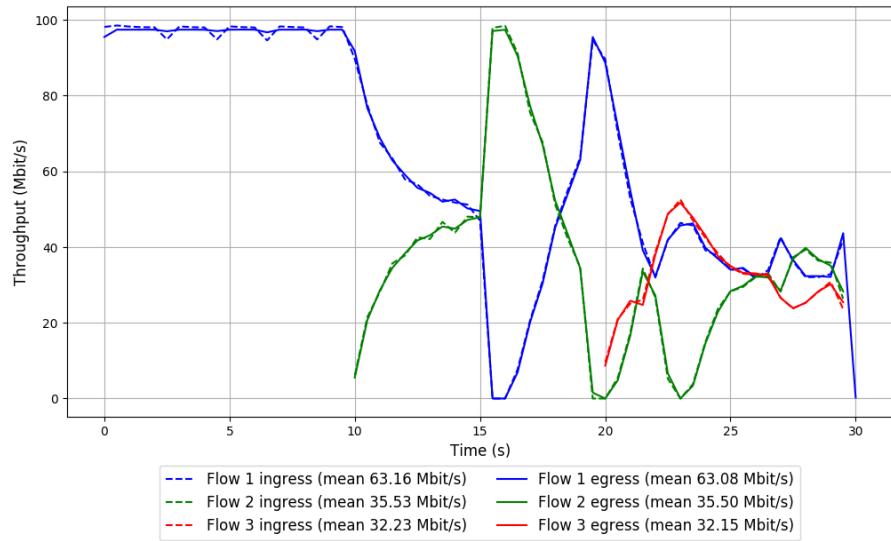


Run 7: Statistics of LEDBAT

```
Start at: 2018-04-24 22:17:44
End at: 2018-04-24 22:18:14
Local clock offset: -4.509 ms
Remote clock offset: -4.086 ms

# Below is generated by plot.py at 2018-04-24 23:53:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.35 Mbit/s
95th percentile per-packet one-way delay: 30.121 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 63.08 Mbit/s
95th percentile per-packet one-way delay: 30.085 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 35.50 Mbit/s
95th percentile per-packet one-way delay: 30.142 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 32.15 Mbit/s
95th percentile per-packet one-way delay: 30.145 ms
Loss rate: 0.12%
```

Run 7: Report of LEDBAT — Data Link

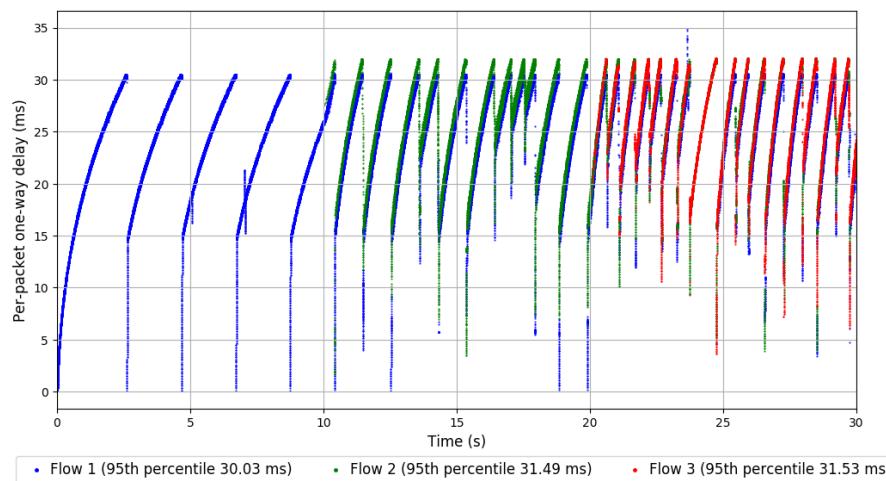
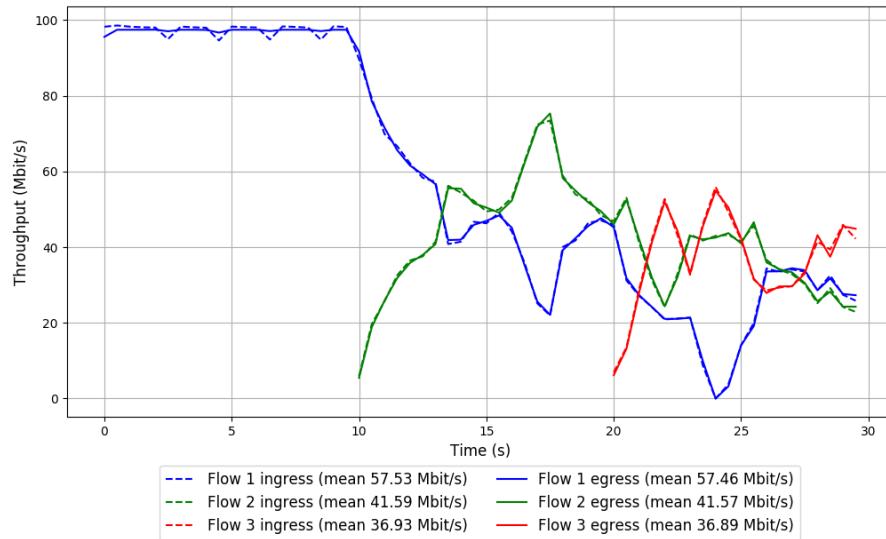


Run 8: Statistics of LEDBAT

```
Start at: 2018-04-24 22:36:56
End at: 2018-04-24 22:37:26
Local clock offset: -4.559 ms
Remote clock offset: -4.169 ms

# Below is generated by plot.py at 2018-04-24 23:53:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.35 Mbit/s
95th percentile per-packet one-way delay: 30.950 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 57.46 Mbit/s
95th percentile per-packet one-way delay: 30.027 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 41.57 Mbit/s
95th percentile per-packet one-way delay: 31.488 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 36.89 Mbit/s
95th percentile per-packet one-way delay: 31.532 ms
Loss rate: 0.07%
```

Run 8: Report of LEDBAT — Data Link

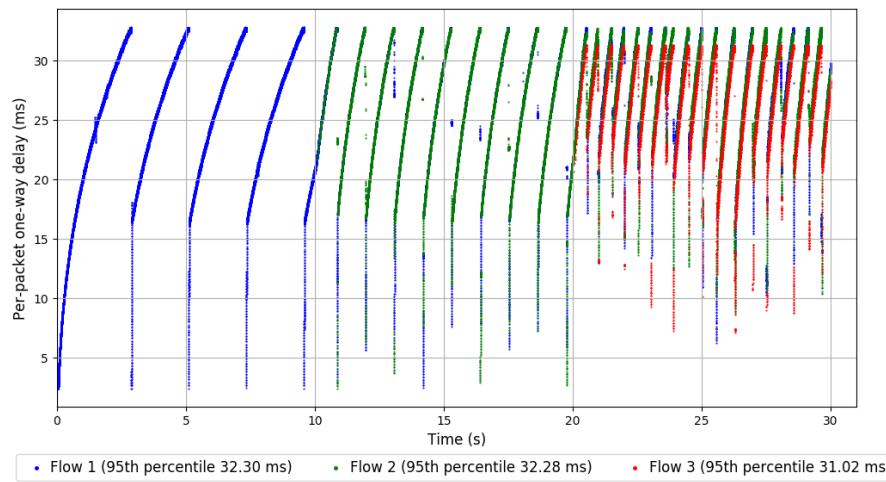
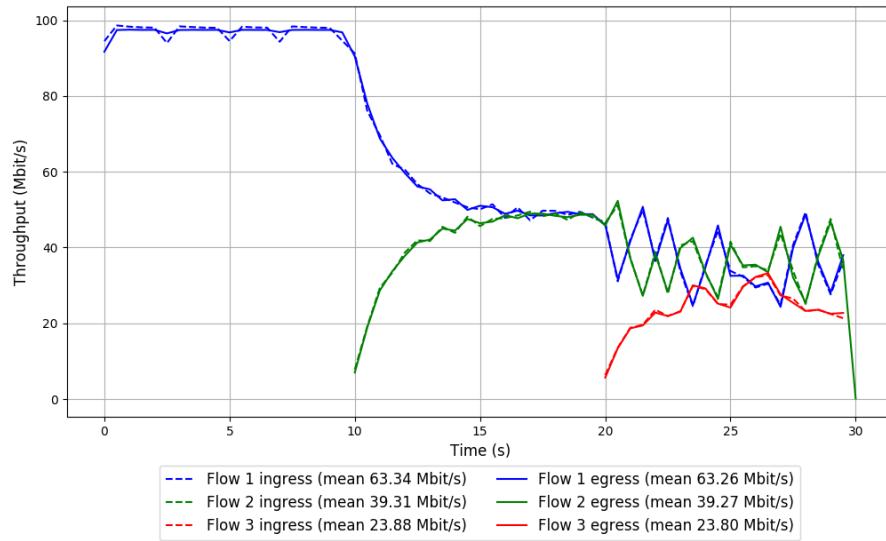


Run 9: Statistics of LEDBAT

```
Start at: 2018-04-24 22:56:07
End at: 2018-04-24 22:56:37
Local clock offset: -5.043 ms
Remote clock offset: -6.267 ms

# Below is generated by plot.py at 2018-04-24 23:53:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.30 Mbit/s
95th percentile per-packet one-way delay: 32.270 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 63.26 Mbit/s
95th percentile per-packet one-way delay: 32.295 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 39.27 Mbit/s
95th percentile per-packet one-way delay: 32.280 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 23.80 Mbit/s
95th percentile per-packet one-way delay: 31.021 ms
Loss rate: 0.26%
```

Run 9: Report of LEDBAT — Data Link

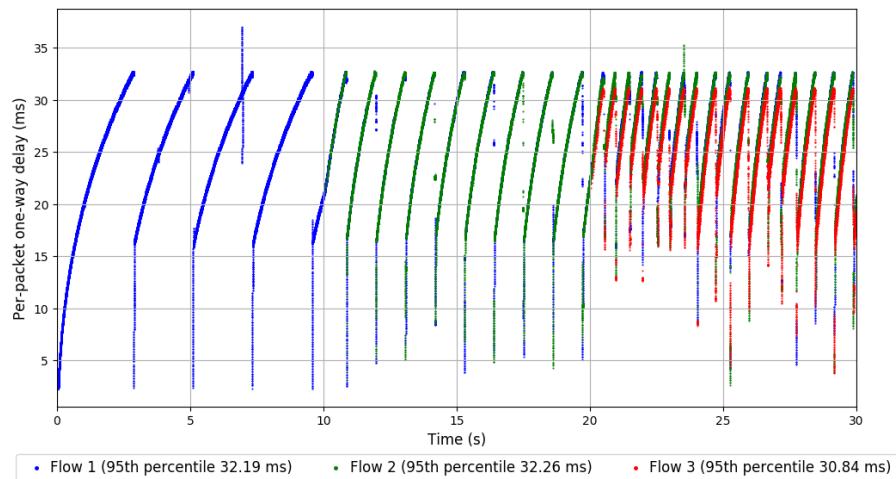
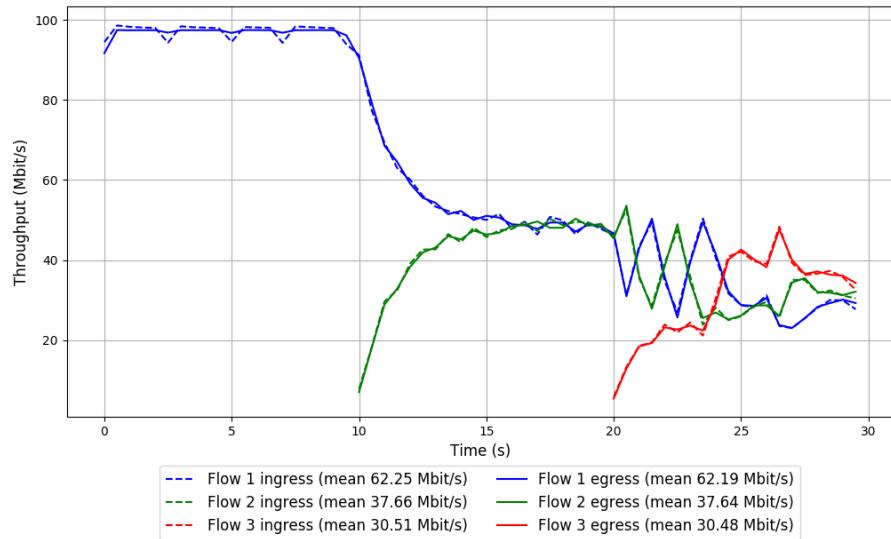


Run 10: Statistics of LEDBAT

```
Start at: 2018-04-24 23:15:19
End at: 2018-04-24 23:15:49
Local clock offset: -4.811 ms
Remote clock offset: -6.674 ms

# Below is generated by plot.py at 2018-04-24 23:53:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.32 Mbit/s
95th percentile per-packet one-way delay: 32.172 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 62.19 Mbit/s
95th percentile per-packet one-way delay: 32.189 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 37.64 Mbit/s
95th percentile per-packet one-way delay: 32.259 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 30.48 Mbit/s
95th percentile per-packet one-way delay: 30.841 ms
Loss rate: 0.10%
```

Run 10: Report of LEDBAT — Data Link

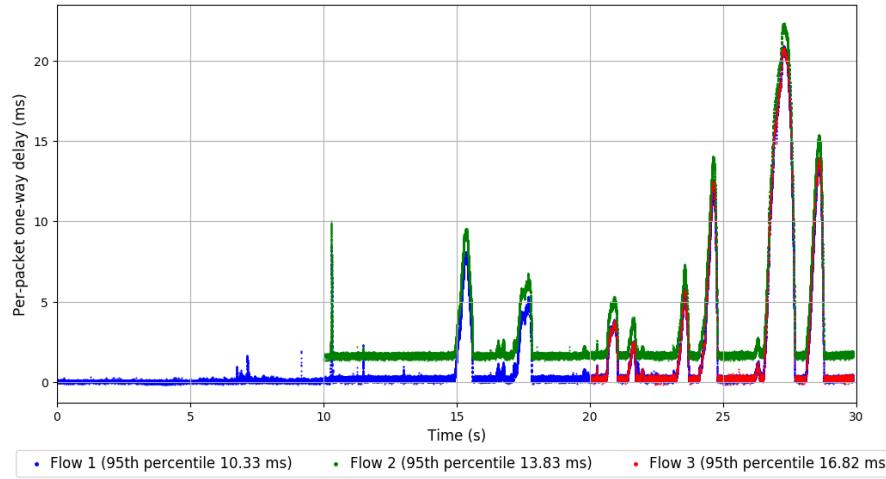
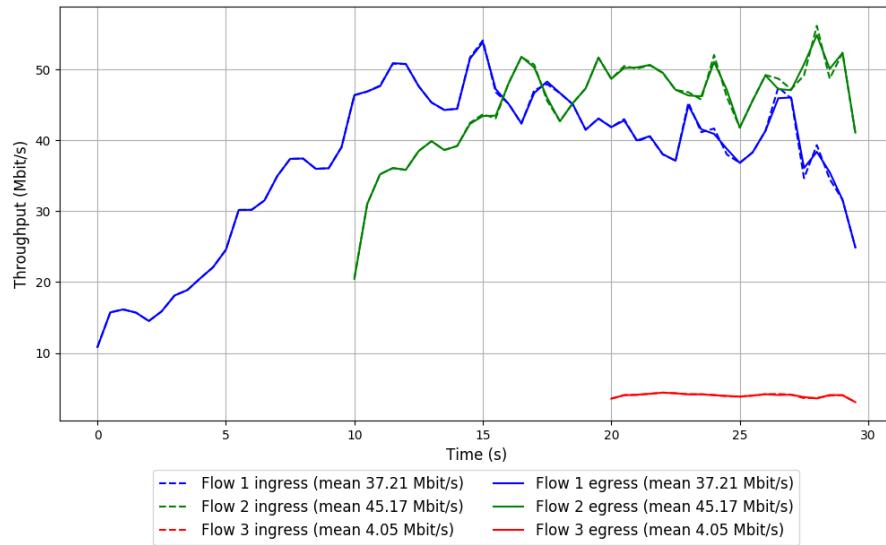


Run 1: Statistics of PCC-Allegro

```
Start at: 2018-04-24 20:21:29
End at: 2018-04-24 20:21:59
Local clock offset: -4.24 ms
Remote clock offset: -7.699 ms

# Below is generated by plot.py at 2018-04-24 23:53:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.57 Mbit/s
95th percentile per-packet one-way delay: 12.436 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 37.21 Mbit/s
95th percentile per-packet one-way delay: 10.328 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 45.17 Mbit/s
95th percentile per-packet one-way delay: 13.833 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.05 Mbit/s
95th percentile per-packet one-way delay: 16.817 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Allegro — Data Link

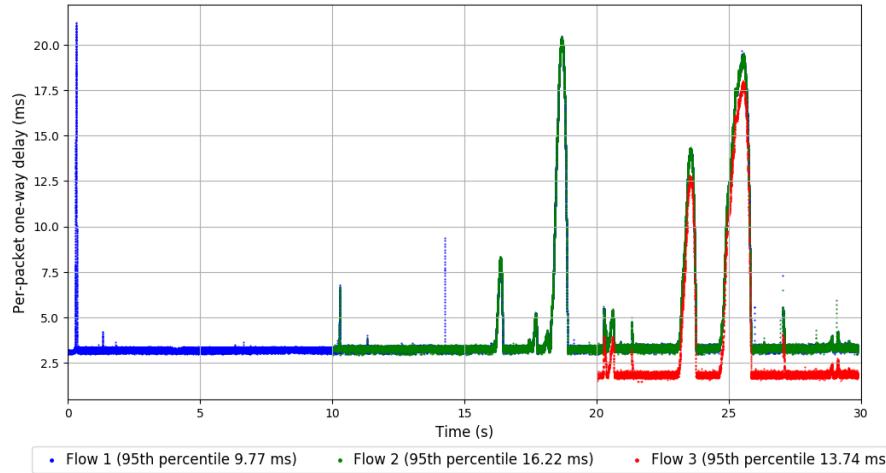
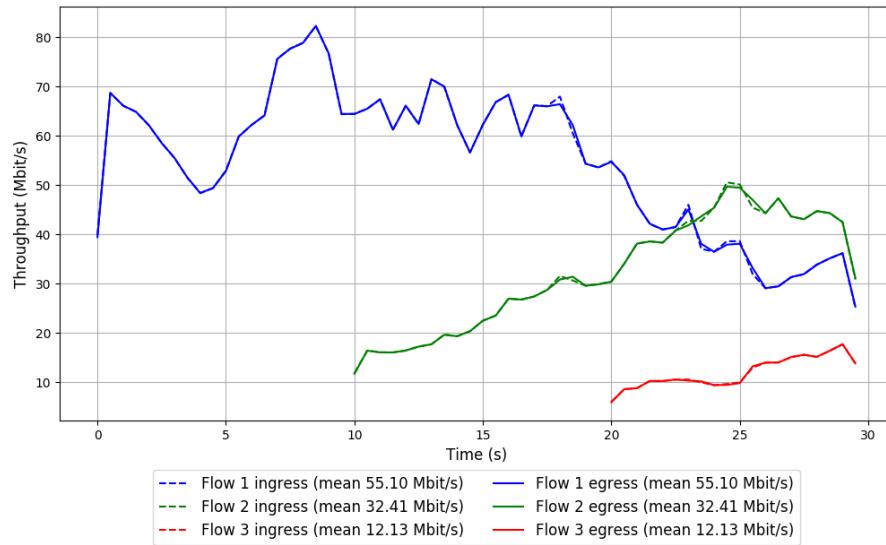


Run 2: Statistics of PCC-Allegro

```
Start at: 2018-04-24 20:40:41
End at: 2018-04-24 20:41:11
Local clock offset: -5.733 ms
Remote clock offset: -8.073 ms

# Below is generated by plot.py at 2018-04-24 23:53:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.64 Mbit/s
95th percentile per-packet one-way delay: 13.114 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.10 Mbit/s
95th percentile per-packet one-way delay: 9.766 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 32.41 Mbit/s
95th percentile per-packet one-way delay: 16.220 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.13 Mbit/s
95th percentile per-packet one-way delay: 13.740 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Allegro — Data Link

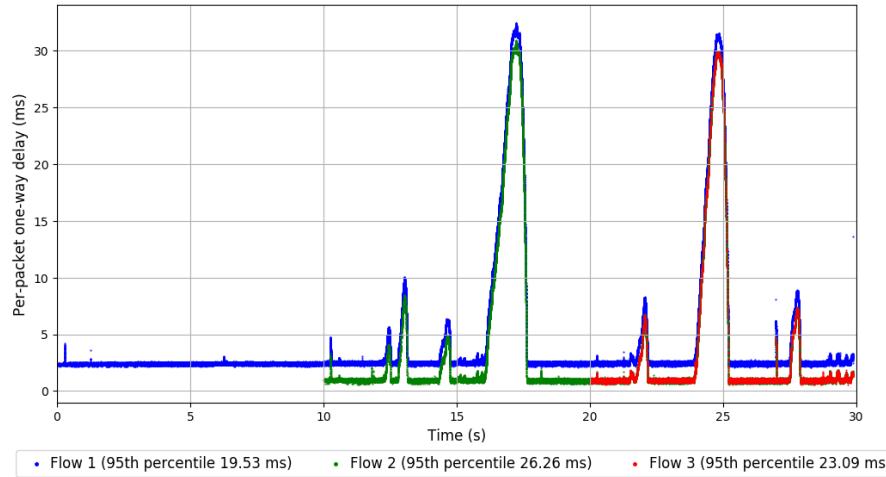
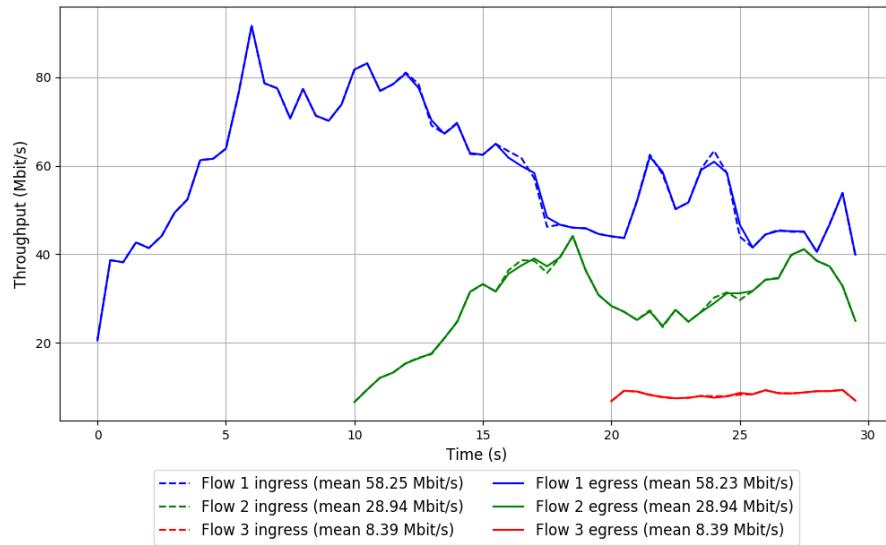


Run 3: Statistics of PCC-Allegro

```
Start at: 2018-04-24 20:59:53
End at: 2018-04-24 21:00:23
Local clock offset: -5.105 ms
Remote clock offset: -6.69 ms

# Below is generated by plot.py at 2018-04-24 23:53:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.23 Mbit/s
95th percentile per-packet one-way delay: 22.495 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.23 Mbit/s
95th percentile per-packet one-way delay: 19.529 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 28.94 Mbit/s
95th percentile per-packet one-way delay: 26.256 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 8.39 Mbit/s
95th percentile per-packet one-way delay: 23.095 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Allegro — Data Link

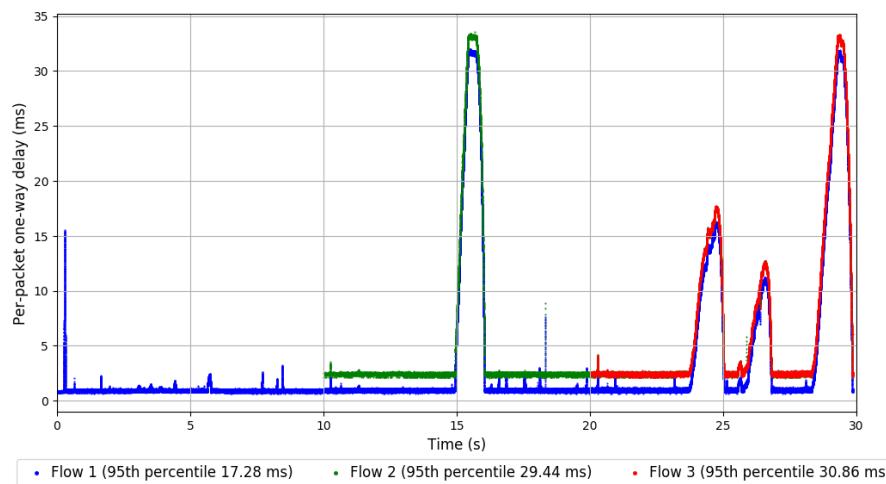
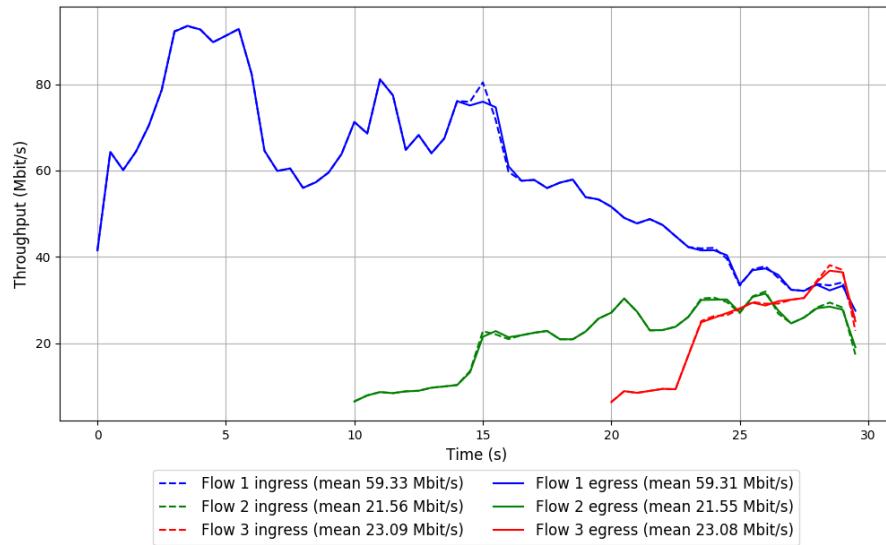


Run 4: Statistics of PCC-Allegro

```
Start at: 2018-04-24 21:19:05
End at: 2018-04-24 21:19:35
Local clock offset: -4.859 ms
Remote clock offset: -5.105 ms

# Below is generated by plot.py at 2018-04-24 23:54:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.24 Mbit/s
95th percentile per-packet one-way delay: 23.778 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 59.31 Mbit/s
95th percentile per-packet one-way delay: 17.276 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 21.55 Mbit/s
95th percentile per-packet one-way delay: 29.437 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 23.08 Mbit/s
95th percentile per-packet one-way delay: 30.856 ms
Loss rate: 0.01%
```

Run 4: Report of PCC-Allegro — Data Link

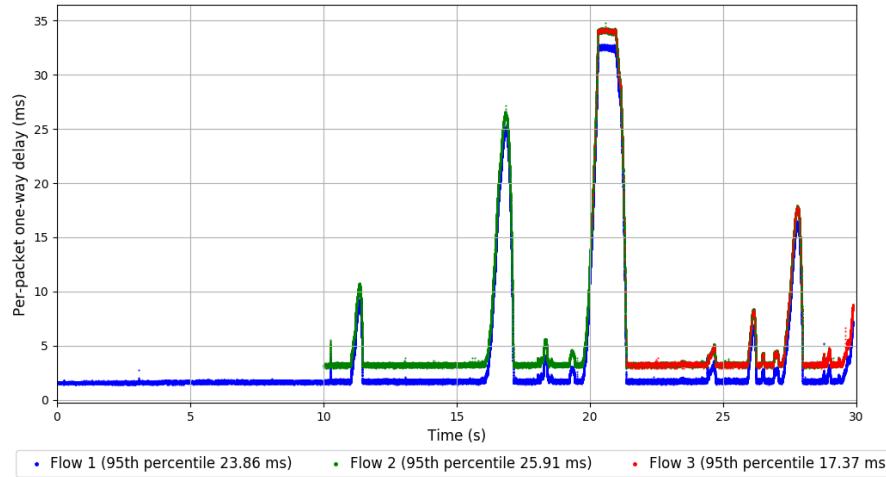
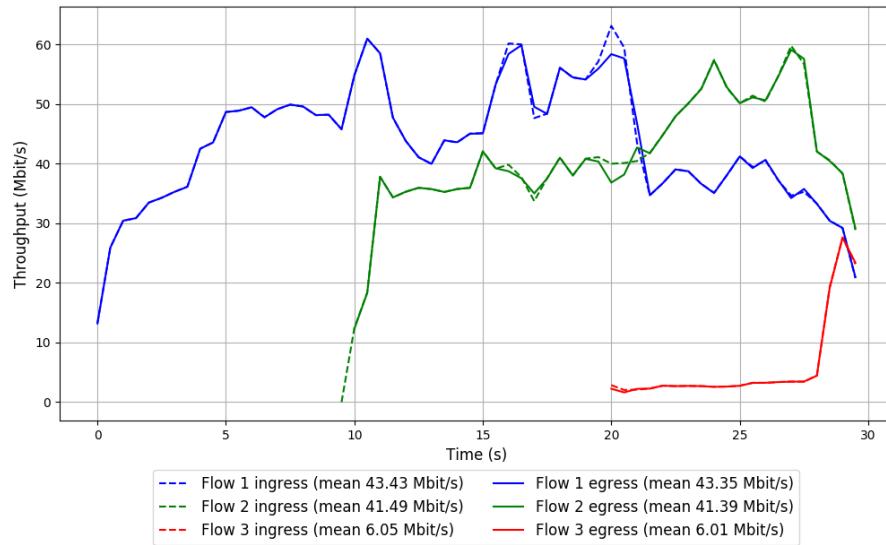


Run 5: Statistics of PCC-Allegro

```
Start at: 2018-04-24 21:38:17
End at: 2018-04-24 21:38:47
Local clock offset: -5.635 ms
Remote clock offset: -4.75 ms

# Below is generated by plot.py at 2018-04-24 23:54:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.86 Mbit/s
95th percentile per-packet one-way delay: 24.480 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 43.35 Mbit/s
95th percentile per-packet one-way delay: 23.864 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 41.39 Mbit/s
95th percentile per-packet one-way delay: 25.909 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 6.01 Mbit/s
95th percentile per-packet one-way delay: 17.370 ms
Loss rate: 0.73%
```

Run 5: Report of PCC-Allegro — Data Link

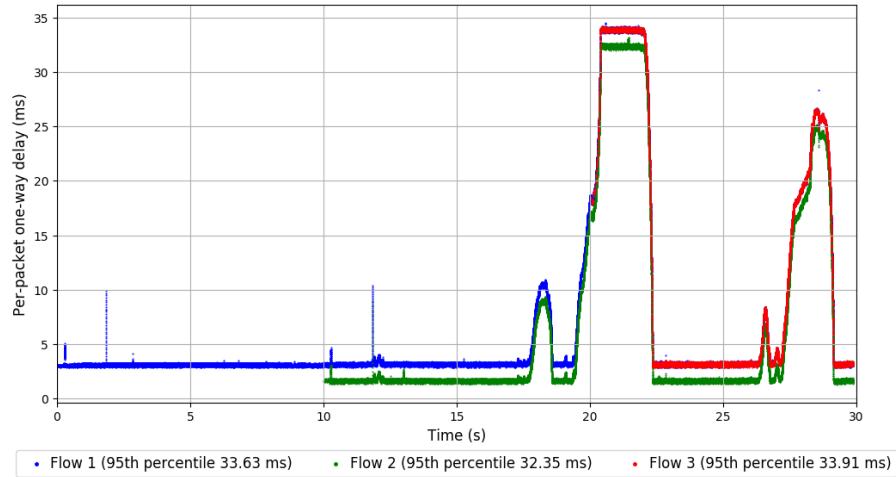
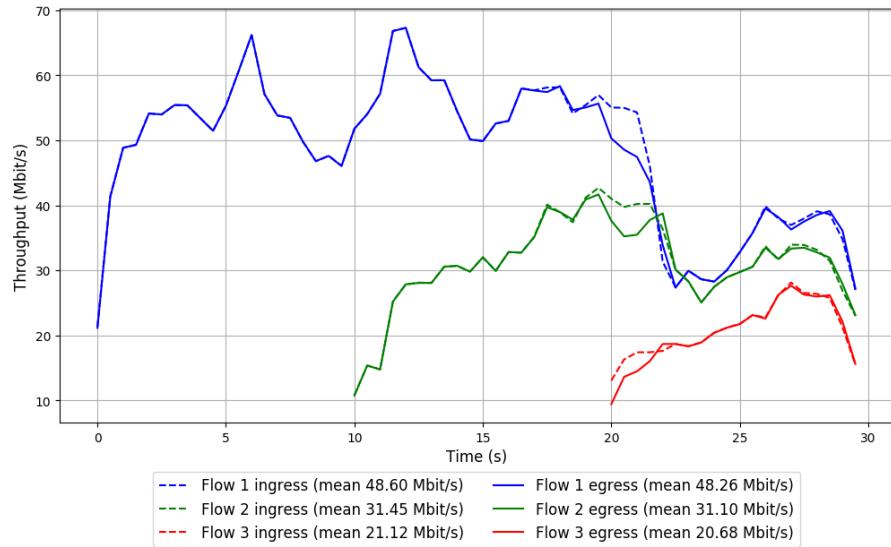


Run 6: Statistics of PCC-Allegro

```
Start at: 2018-04-24 21:57:26
End at: 2018-04-24 21:57:56
Local clock offset: -5.954 ms
Remote clock offset: -4.514 ms

# Below is generated by plot.py at 2018-04-24 23:54:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.76 Mbit/s
95th percentile per-packet one-way delay: 32.455 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 48.26 Mbit/s
95th percentile per-packet one-way delay: 33.635 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 31.10 Mbit/s
95th percentile per-packet one-way delay: 32.348 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 20.68 Mbit/s
95th percentile per-packet one-way delay: 33.915 ms
Loss rate: 2.26%
```

Run 6: Report of PCC-Allegro — Data Link

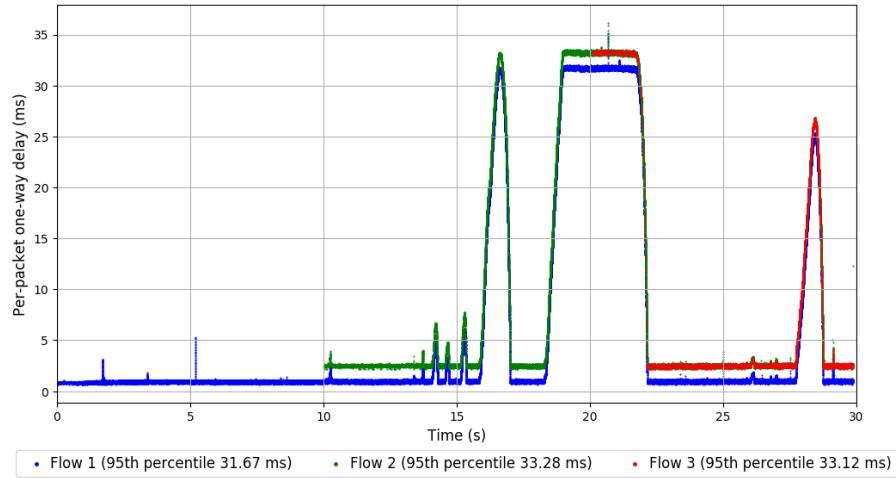
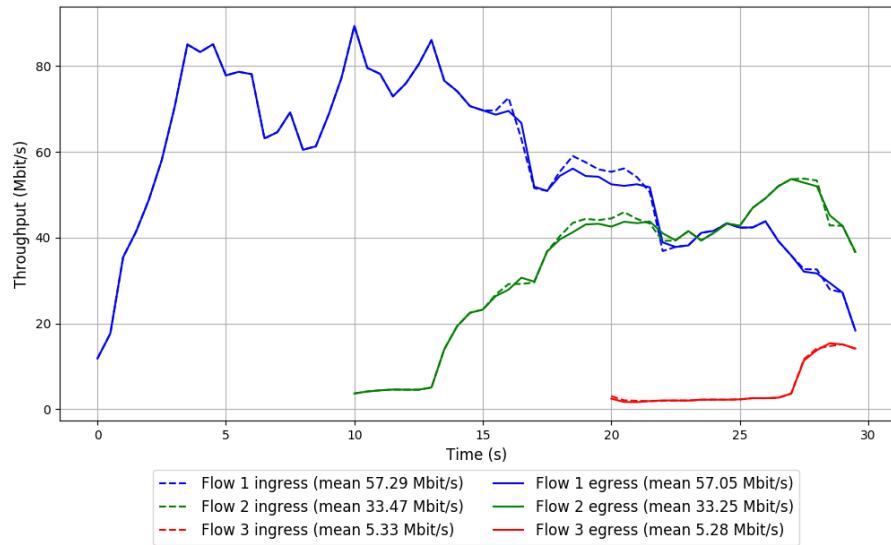


Run 7: Statistics of PCC-Allegro

```
Start at: 2018-04-24 22:16:37
End at: 2018-04-24 22:17:07
Local clock offset: -5.281 ms
Remote clock offset: -4.096 ms

# Below is generated by plot.py at 2018-04-24 23:54:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.88 Mbit/s
95th percentile per-packet one-way delay: 32.980 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 57.05 Mbit/s
95th percentile per-packet one-way delay: 31.671 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 33.25 Mbit/s
95th percentile per-packet one-way delay: 33.277 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 5.28 Mbit/s
95th percentile per-packet one-way delay: 33.118 ms
Loss rate: 1.11%
```

Run 7: Report of PCC-Allegro — Data Link

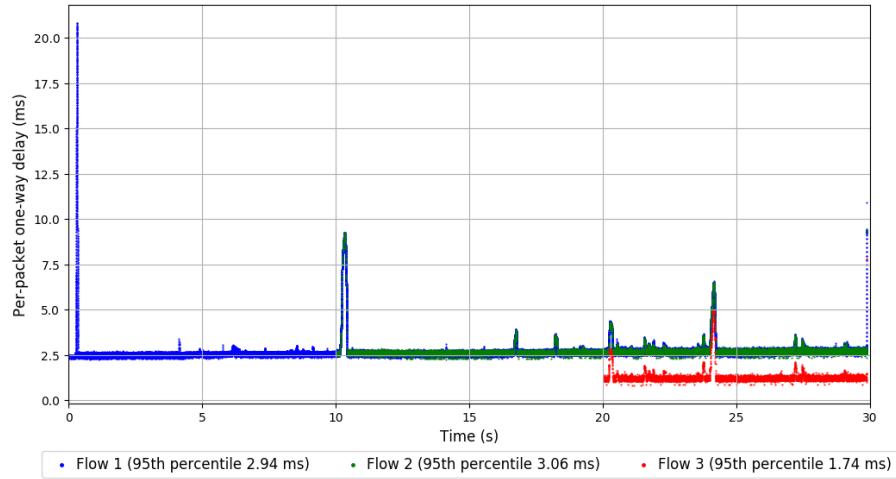
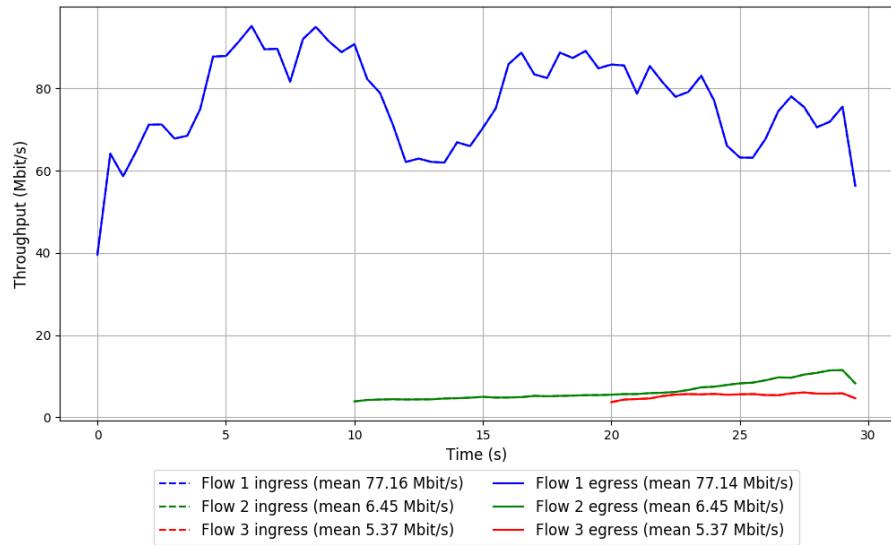


Run 8: Statistics of PCC-Allegro

```
Start at: 2018-04-24 22:35:49
End at: 2018-04-24 22:36:19
Local clock offset: -5.312 ms
Remote clock offset: -3.811 ms

# Below is generated by plot.py at 2018-04-24 23:54:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.20 Mbit/s
95th percentile per-packet one-way delay: 2.941 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 77.14 Mbit/s
95th percentile per-packet one-way delay: 2.945 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.45 Mbit/s
95th percentile per-packet one-way delay: 3.060 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.37 Mbit/s
95th percentile per-packet one-way delay: 1.736 ms
Loss rate: 0.00%
```

Run 8: Report of PCC-Allegro — Data Link

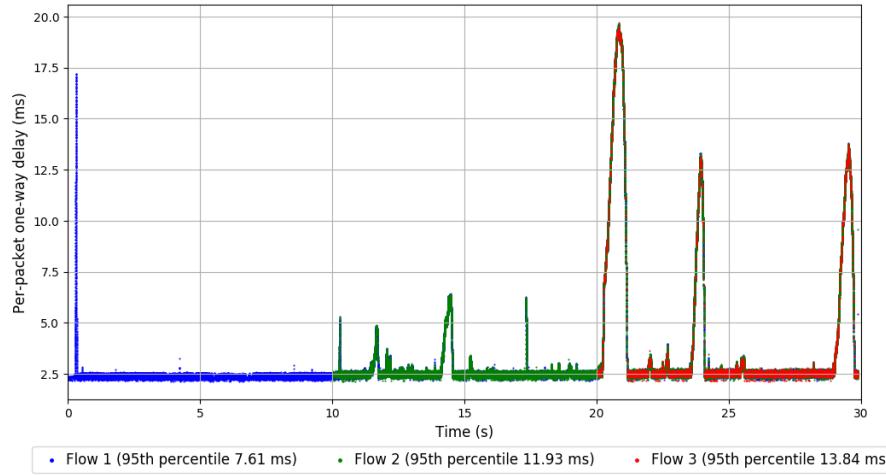
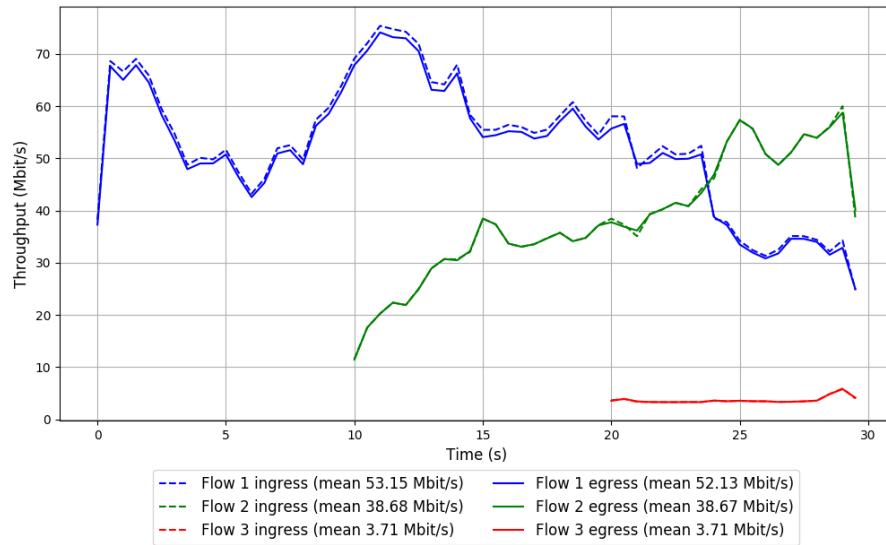


Run 9: Statistics of PCC-Allegro

```
Start at: 2018-04-24 22:55:01
End at: 2018-04-24 22:55:31
Local clock offset: -4.984 ms
Remote clock offset: -6.234 ms

# Below is generated by plot.py at 2018-04-24 23:54:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.06 Mbit/s
95th percentile per-packet one-way delay: 10.049 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 52.13 Mbit/s
95th percentile per-packet one-way delay: 7.614 ms
Loss rate: 1.90%
-- Flow 2:
Average throughput: 38.67 Mbit/s
95th percentile per-packet one-way delay: 11.932 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.71 Mbit/s
95th percentile per-packet one-way delay: 13.844 ms
Loss rate: 0.00%
```

Run 9: Report of PCC-Allegro — Data Link

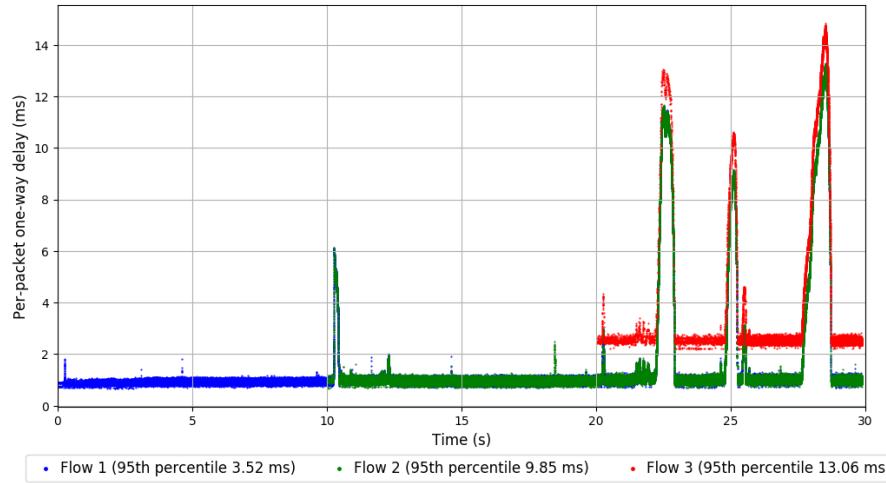
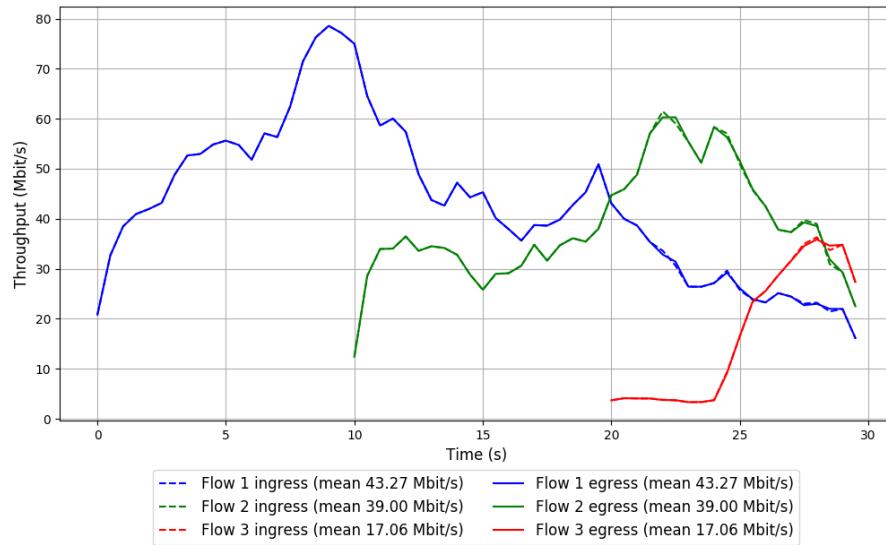


Run 10: Statistics of PCC-Allegro

```
Start at: 2018-04-24 23:14:12
End at: 2018-04-24 23:14:42
Local clock offset: -4.802 ms
Remote clock offset: -6.624 ms

# Below is generated by plot.py at 2018-04-24 23:54:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.82 Mbit/s
95th percentile per-packet one-way delay: 8.724 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 43.27 Mbit/s
95th percentile per-packet one-way delay: 3.523 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.00 Mbit/s
95th percentile per-packet one-way delay: 9.847 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 17.06 Mbit/s
95th percentile per-packet one-way delay: 13.065 ms
Loss rate: 0.00%
```

Run 10: Report of PCC-Allegro — Data Link

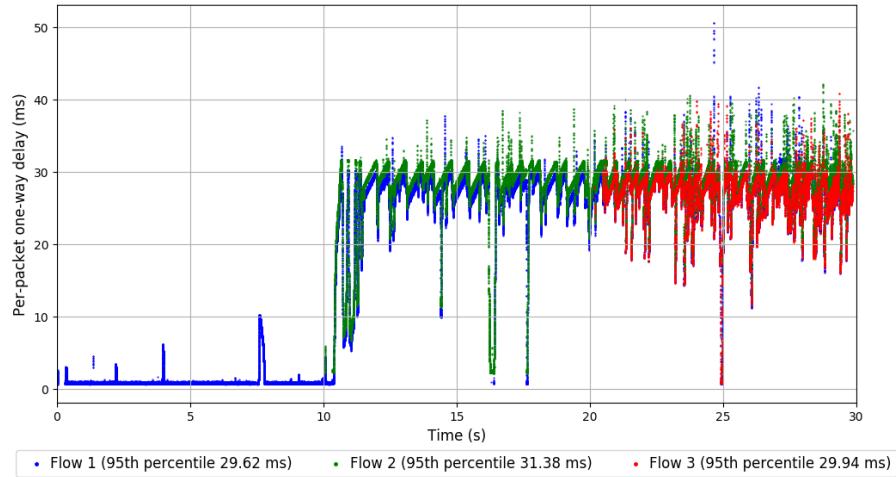
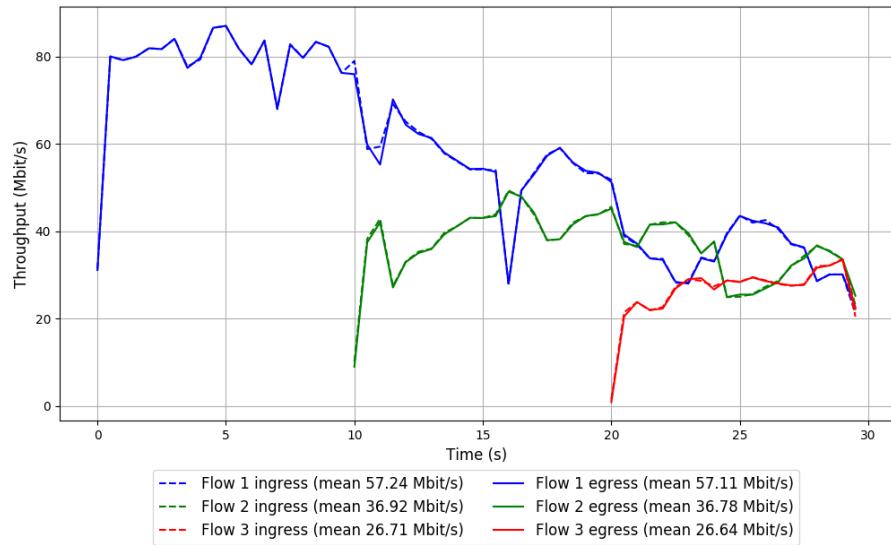


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-04-24 20:15:53
End at: 2018-04-24 20:16:23
Local clock offset: -4.938 ms
Remote clock offset: -7.5 ms

# Below is generated by plot.py at 2018-04-24 23:55:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.22 Mbit/s
95th percentile per-packet one-way delay: 30.863 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 57.11 Mbit/s
95th percentile per-packet one-way delay: 29.620 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 36.78 Mbit/s
95th percentile per-packet one-way delay: 31.382 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 26.64 Mbit/s
95th percentile per-packet one-way delay: 29.939 ms
Loss rate: 0.24%
```

Run 1: Report of QUIC Cubic — Data Link

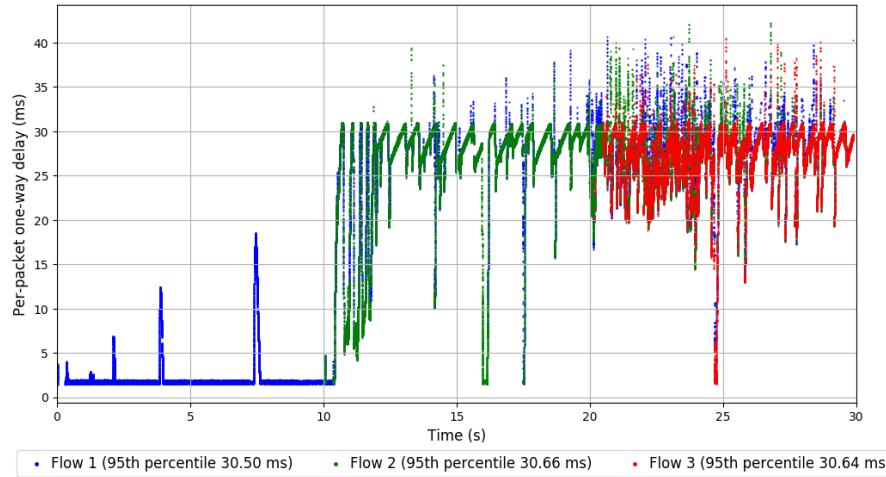
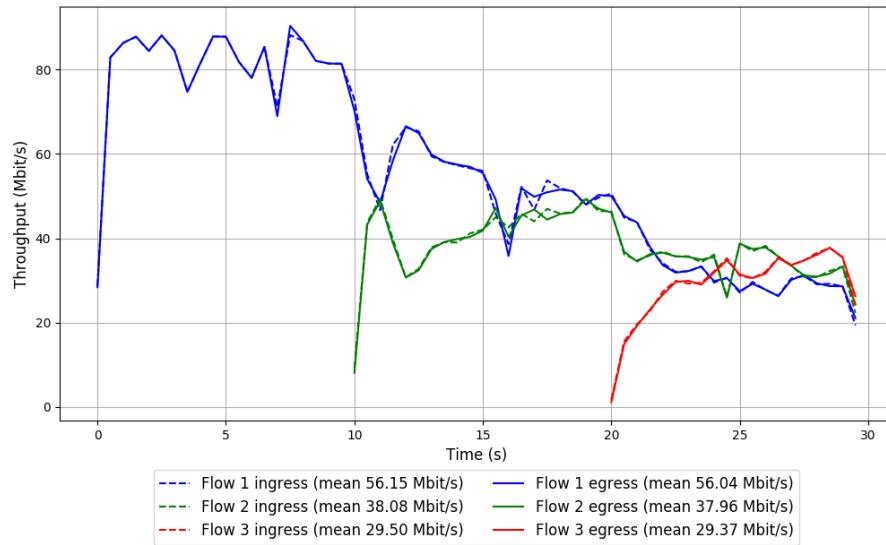


Run 2: Statistics of QUIC Cubic

```
Start at: 2018-04-24 20:35:05
End at: 2018-04-24 20:35:35
Local clock offset: -4.226 ms
Remote clock offset: -7.954 ms

# Below is generated by plot.py at 2018-04-24 23:55:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.80 Mbit/s
95th percentile per-packet one-way delay: 30.590 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 56.04 Mbit/s
95th percentile per-packet one-way delay: 30.502 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 37.96 Mbit/s
95th percentile per-packet one-way delay: 30.656 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 29.37 Mbit/s
95th percentile per-packet one-way delay: 30.643 ms
Loss rate: 0.21%
```

Run 2: Report of QUIC Cubic — Data Link

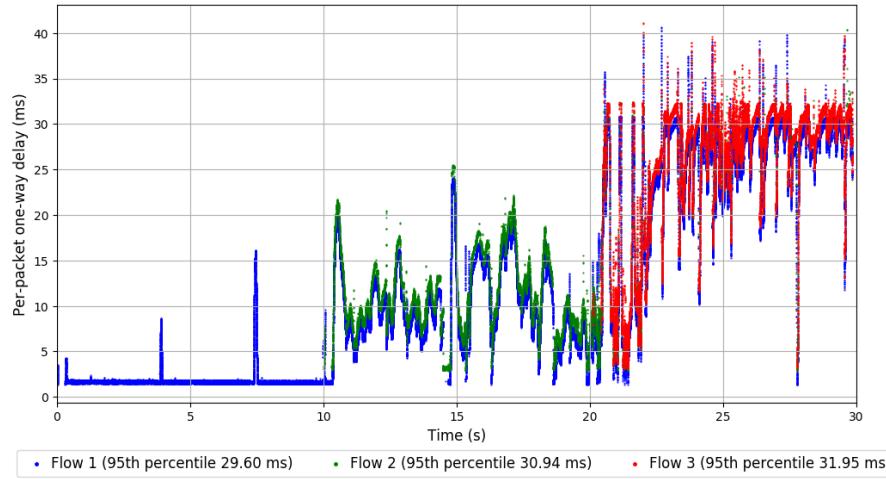
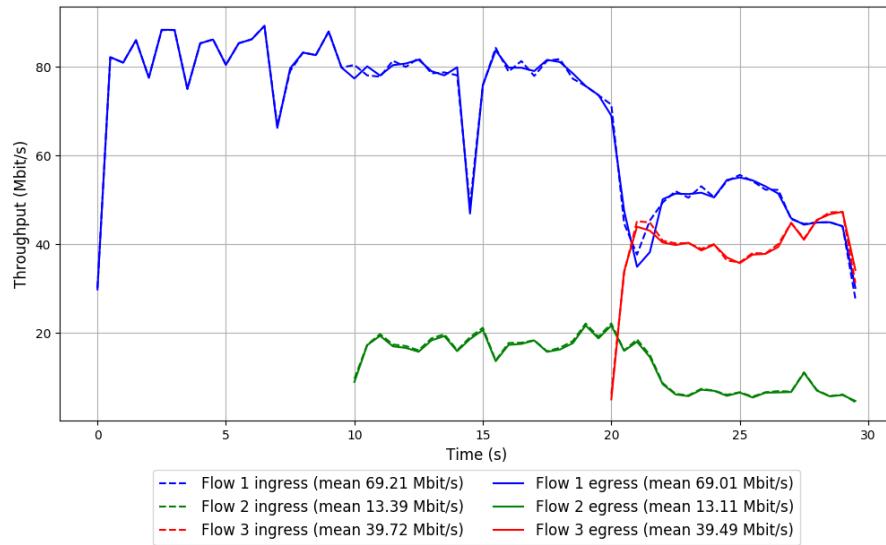


Run 3: Statistics of QUIC Cubic

```
Start at: 2018-04-24 20:54:18
End at: 2018-04-24 20:54:48
Local clock offset: -5.815 ms
Remote clock offset: -7.981 ms

# Below is generated by plot.py at 2018-04-24 23:55:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.65 Mbit/s
95th percentile per-packet one-way delay: 30.702 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 69.01 Mbit/s
95th percentile per-packet one-way delay: 29.597 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 13.11 Mbit/s
95th percentile per-packet one-way delay: 30.937 ms
Loss rate: 1.99%
-- Flow 3:
Average throughput: 39.49 Mbit/s
95th percentile per-packet one-way delay: 31.945 ms
Loss rate: 0.43%
```

Run 3: Report of QUIC Cubic — Data Link

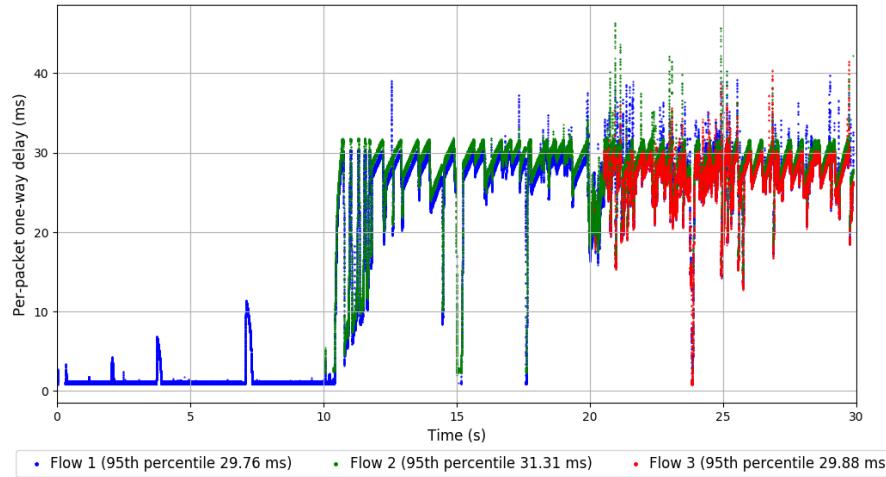
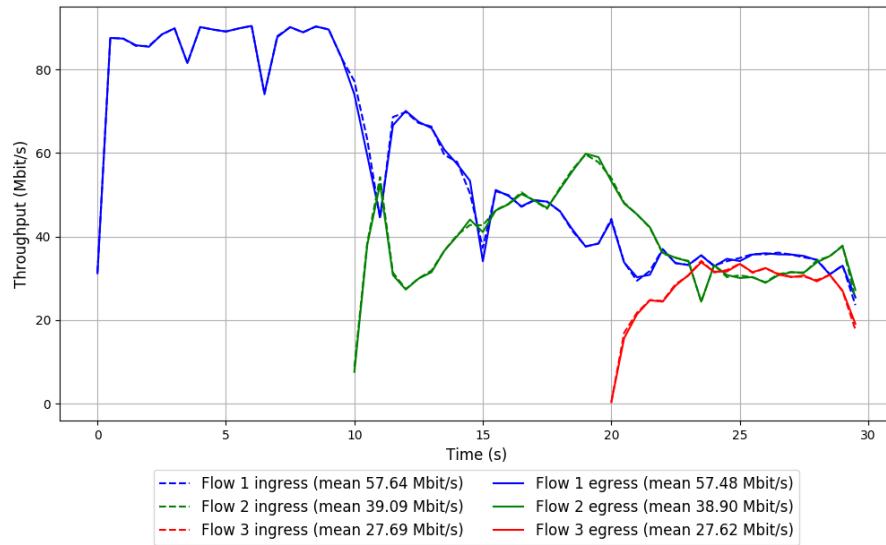


Run 4: Statistics of QUIC Cubic

```
Start at: 2018-04-24 21:13:30
End at: 2018-04-24 21:14:00
Local clock offset: -4.928 ms
Remote clock offset: -5.321 ms

# Below is generated by plot.py at 2018-04-24 23:55:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.29 Mbit/s
95th percentile per-packet one-way delay: 30.886 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 57.48 Mbit/s
95th percentile per-packet one-way delay: 29.763 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 38.90 Mbit/s
95th percentile per-packet one-way delay: 31.310 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 27.62 Mbit/s
95th percentile per-packet one-way delay: 29.881 ms
Loss rate: 0.22%
```

Run 4: Report of QUIC Cubic — Data Link

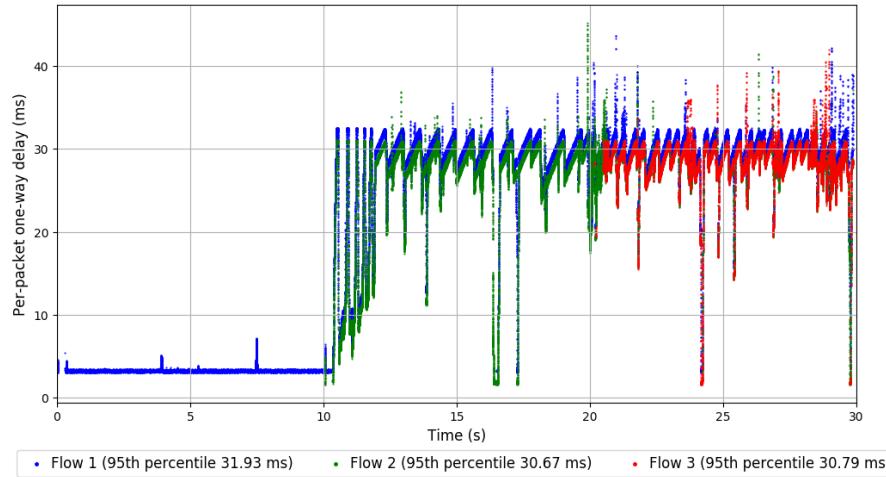
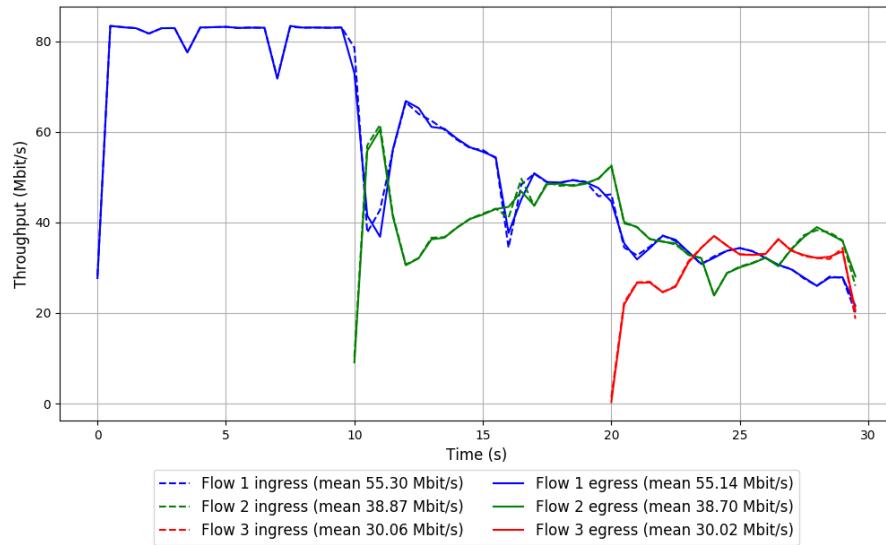


Run 5: Statistics of QUIC Cubic

```
Start at: 2018-04-24 21:32:42
End at: 2018-04-24 21:33:12
Local clock offset: -5.658 ms
Remote clock offset: -4.806 ms

# Below is generated by plot.py at 2018-04-24 23:55:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.59 Mbit/s
95th percentile per-packet one-way delay: 31.718 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 55.14 Mbit/s
95th percentile per-packet one-way delay: 31.935 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 38.70 Mbit/s
95th percentile per-packet one-way delay: 30.667 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 30.02 Mbit/s
95th percentile per-packet one-way delay: 30.789 ms
Loss rate: 0.14%
```

Run 5: Report of QUIC Cubic — Data Link

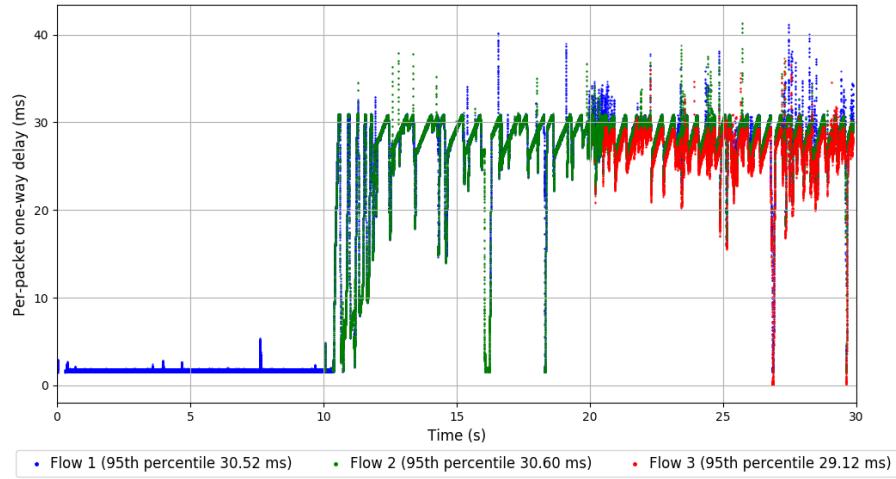
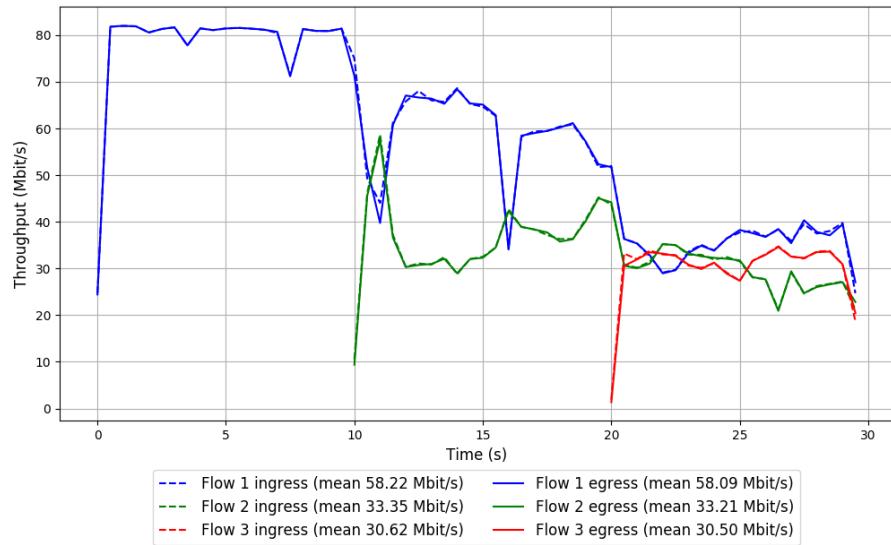


Run 6: Statistics of QUIC Cubic

```
Start at: 2018-04-24 21:51:51
End at: 2018-04-24 21:52:21
Local clock offset: -4.377 ms
Remote clock offset: -4.559 ms

# Below is generated by plot.py at 2018-04-24 23:56:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.09 Mbit/s
95th percentile per-packet one-way delay: 30.522 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 58.09 Mbit/s
95th percentile per-packet one-way delay: 30.515 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 33.21 Mbit/s
95th percentile per-packet one-way delay: 30.597 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 30.50 Mbit/s
95th percentile per-packet one-way delay: 29.120 ms
Loss rate: 0.41%
```

Run 6: Report of QUIC Cubic — Data Link

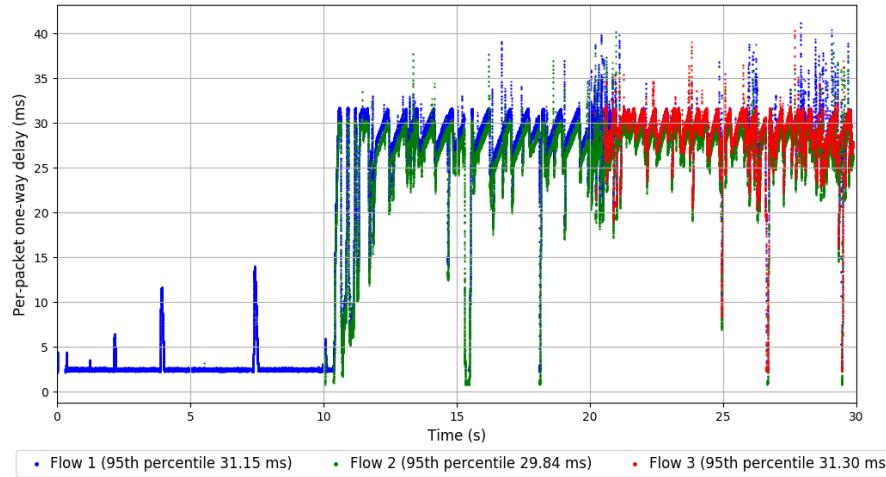
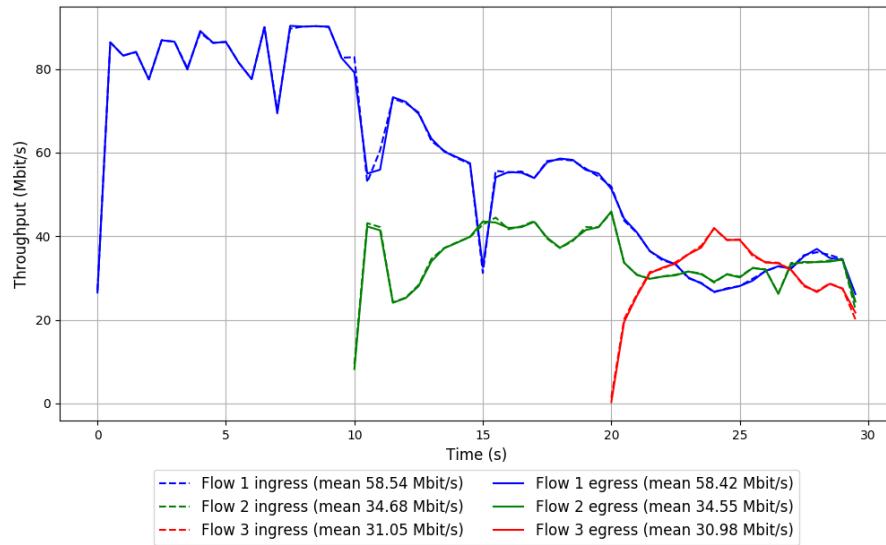


Run 7: Statistics of QUIC Cubic

```
Start at: 2018-04-24 22:11:02
End at: 2018-04-24 22:11:32
Local clock offset: -5.28 ms
Remote clock offset: -4.221 ms

# Below is generated by plot.py at 2018-04-24 23:56:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.45 Mbit/s
95th percentile per-packet one-way delay: 31.103 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 58.42 Mbit/s
95th percentile per-packet one-way delay: 31.153 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 34.55 Mbit/s
95th percentile per-packet one-way delay: 29.844 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 30.98 Mbit/s
95th percentile per-packet one-way delay: 31.297 ms
Loss rate: 0.21%
```

Run 7: Report of QUIC Cubic — Data Link

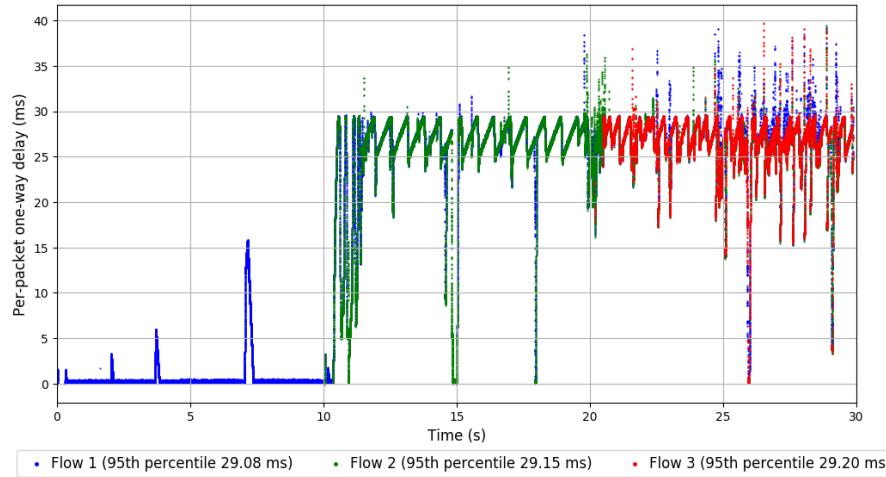
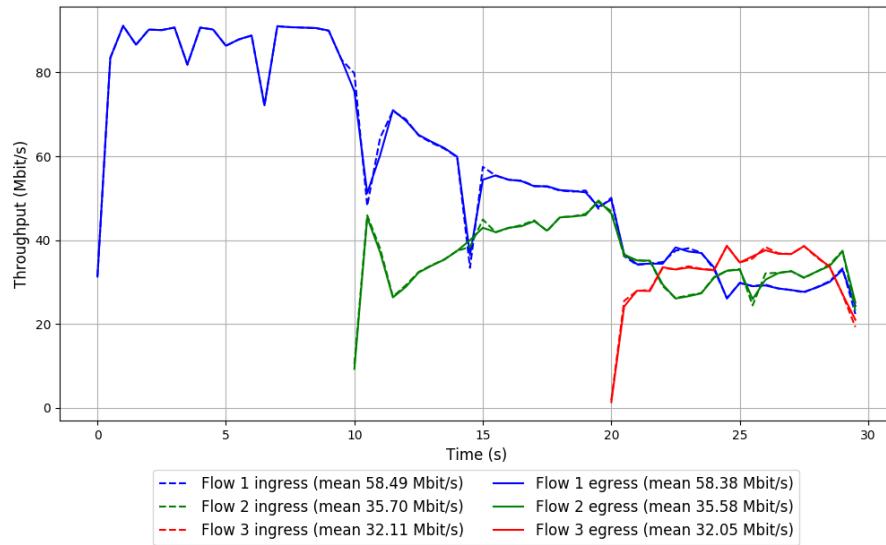


Run 8: Statistics of QUIC Cubic

```
Start at: 2018-04-24 22:30:13
End at: 2018-04-24 22:30:43
Local clock offset: -4.531 ms
Remote clock offset: -3.813 ms

# Below is generated by plot.py at 2018-04-24 23:56:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.44 Mbit/s
95th percentile per-packet one-way delay: 29.123 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 58.38 Mbit/s
95th percentile per-packet one-way delay: 29.084 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 35.58 Mbit/s
95th percentile per-packet one-way delay: 29.146 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 32.05 Mbit/s
95th percentile per-packet one-way delay: 29.204 ms
Loss rate: 0.14%
```

Run 8: Report of QUIC Cubic — Data Link

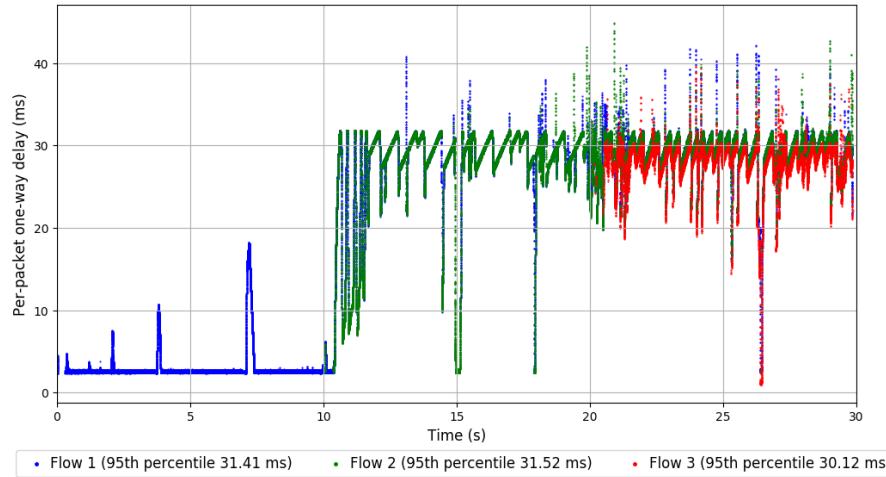
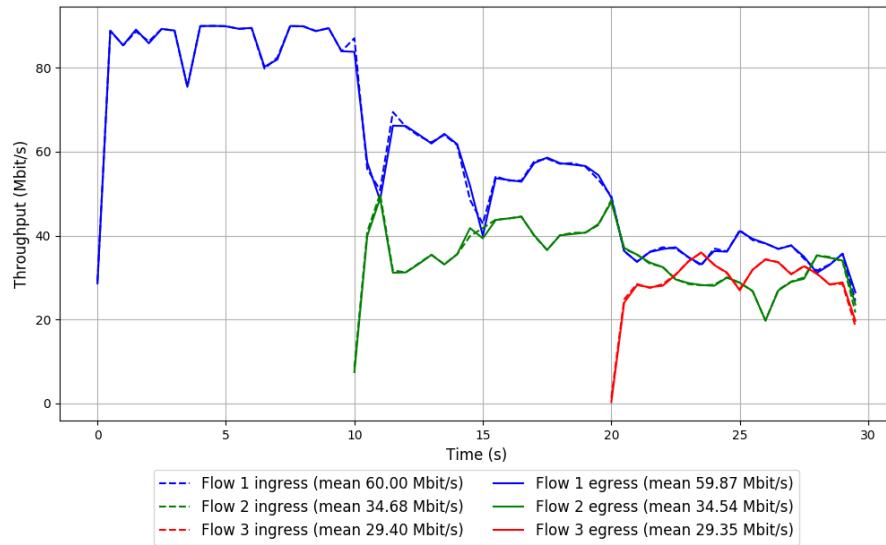


Run 9: Statistics of QUIC Cubic

```
Start at: 2018-04-24 22:49:25
End at: 2018-04-24 22:49:55
Local clock offset: -5.255 ms
Remote clock offset: -5.895 ms

# Below is generated by plot.py at 2018-04-24 23:57:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.36 Mbit/s
95th percentile per-packet one-way delay: 31.441 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 59.87 Mbit/s
95th percentile per-packet one-way delay: 31.413 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 34.54 Mbit/s
95th percentile per-packet one-way delay: 31.518 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 29.35 Mbit/s
95th percentile per-packet one-way delay: 30.121 ms
Loss rate: 0.22%
```

Run 9: Report of QUIC Cubic — Data Link

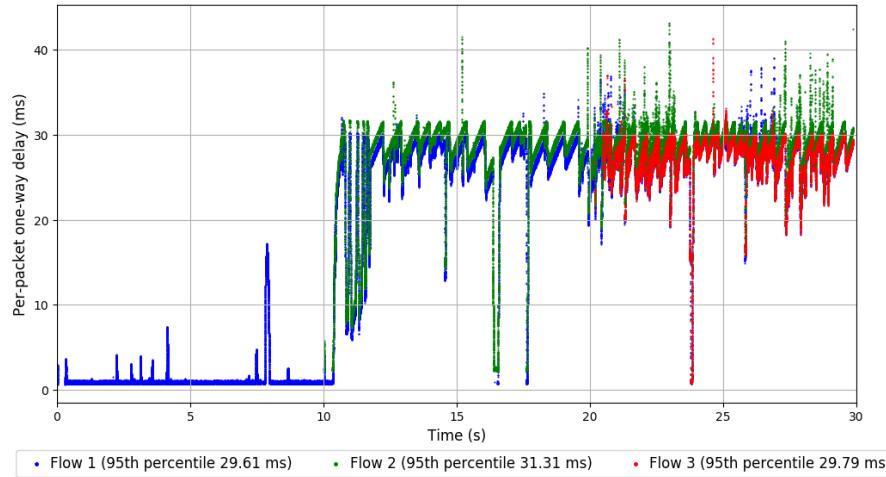
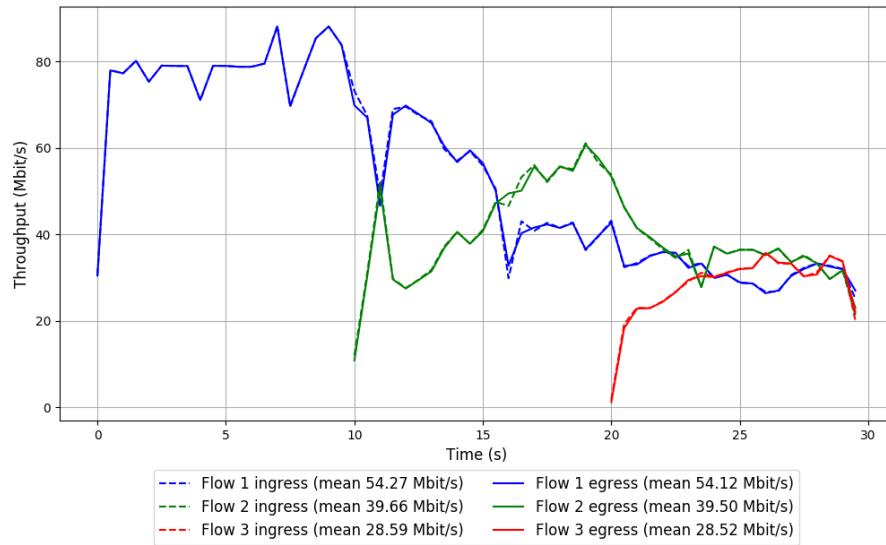


Run 10: Statistics of QUIC Cubic

```
Start at: 2018-04-24 23:08:37
End at: 2018-04-24 23:09:07
Local clock offset: -4.812 ms
Remote clock offset: -6.701 ms

# Below is generated by plot.py at 2018-04-24 23:57:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.68 Mbit/s
95th percentile per-packet one-way delay: 30.775 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 54.12 Mbit/s
95th percentile per-packet one-way delay: 29.614 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 39.50 Mbit/s
95th percentile per-packet one-way delay: 31.314 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 28.52 Mbit/s
95th percentile per-packet one-way delay: 29.794 ms
Loss rate: 0.20%
```

Run 10: Report of QUIC Cubic — Data Link

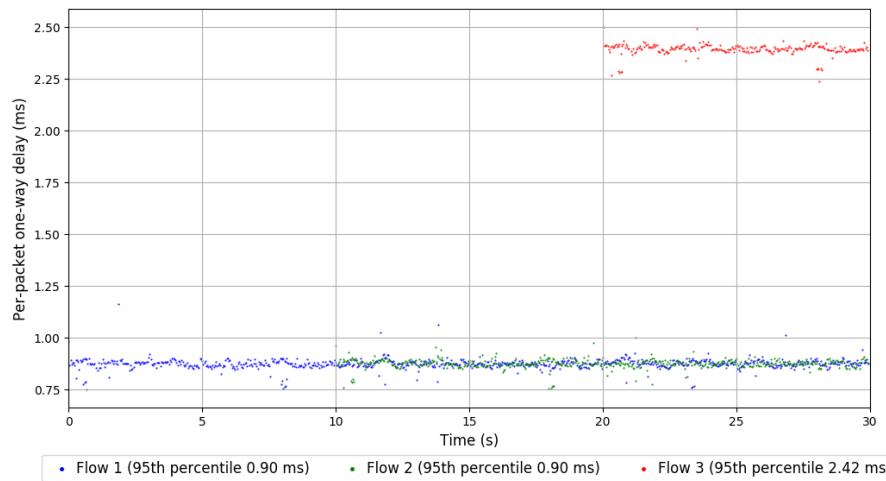
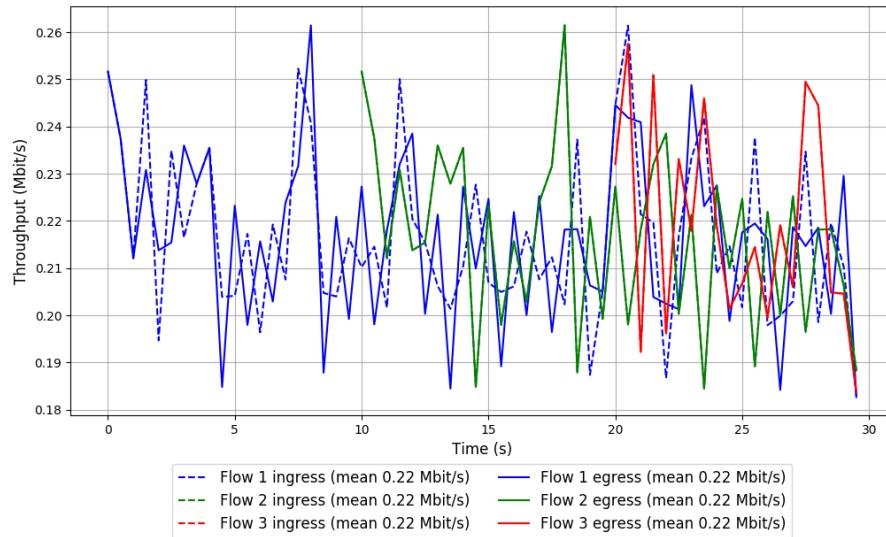


```
Run 1: Statistics of SCReAM

Start at: 2018-04-24 20:19:16
End at: 2018-04-24 20:19:46
Local clock offset: -5.051 ms
Remote clock offset: -7.584 ms

# Below is generated by plot.py at 2018-04-24 23:57:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 2.406 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.902 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.903 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.423 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

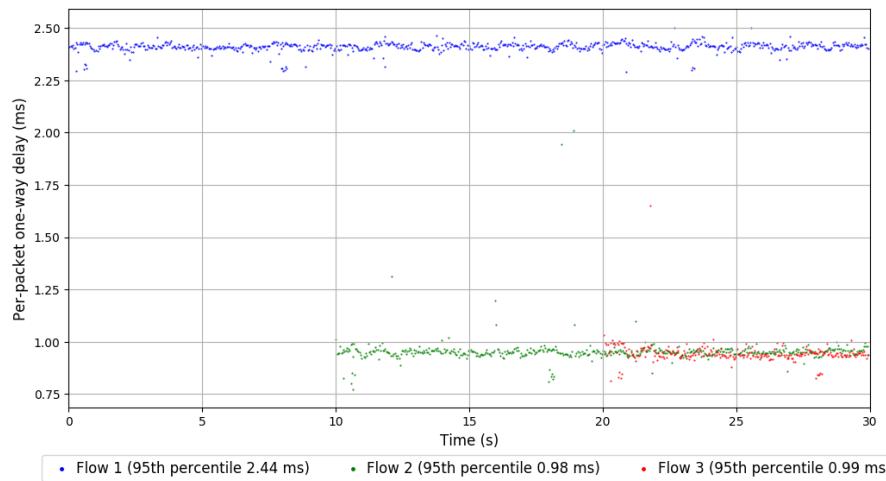
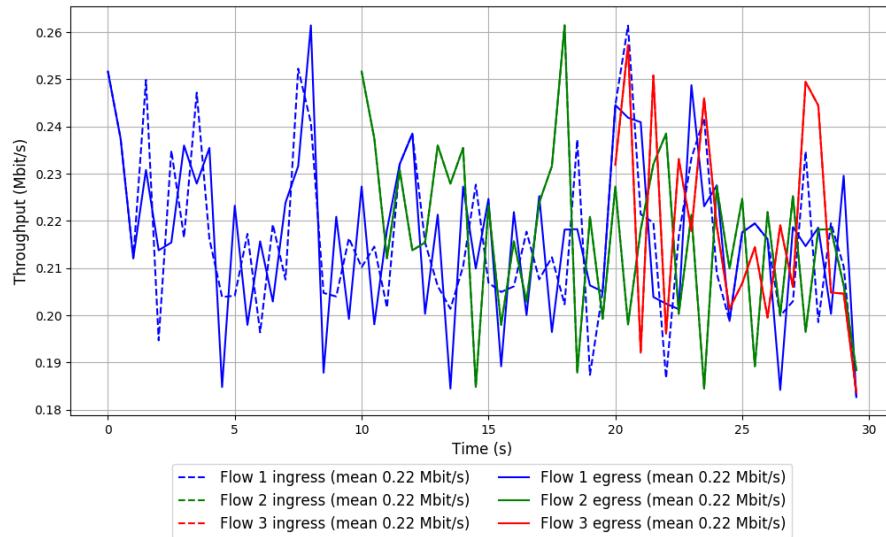


Run 2: Statistics of SCReAM

```
Start at: 2018-04-24 20:38:29
End at: 2018-04-24 20:38:59
Local clock offset: -5.029 ms
Remote clock offset: -8.032 ms

# Below is generated by plot.py at 2018-04-24 23:57:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 2.430 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.435 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.984 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.994 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

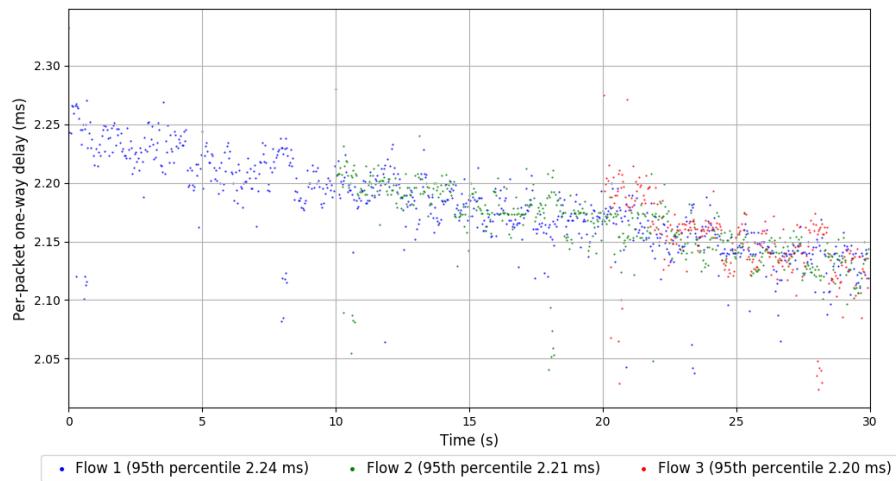
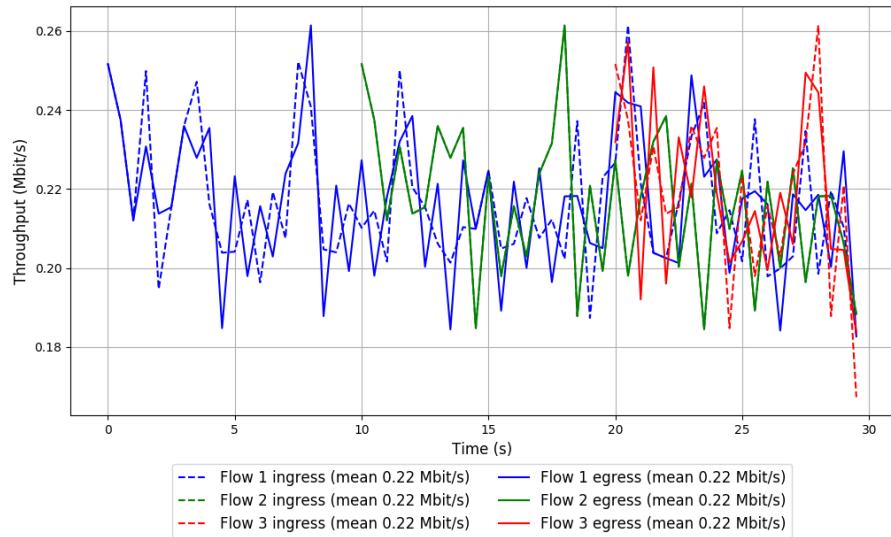


Run 3: Statistics of SCReAM

```
Start at: 2018-04-24 20:57:41
End at: 2018-04-24 20:58:11
Local clock offset: -4.984 ms
Remote clock offset: -7.108 ms

# Below is generated by plot.py at 2018-04-24 23:57:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 2.231 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.242 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.206 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.201 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

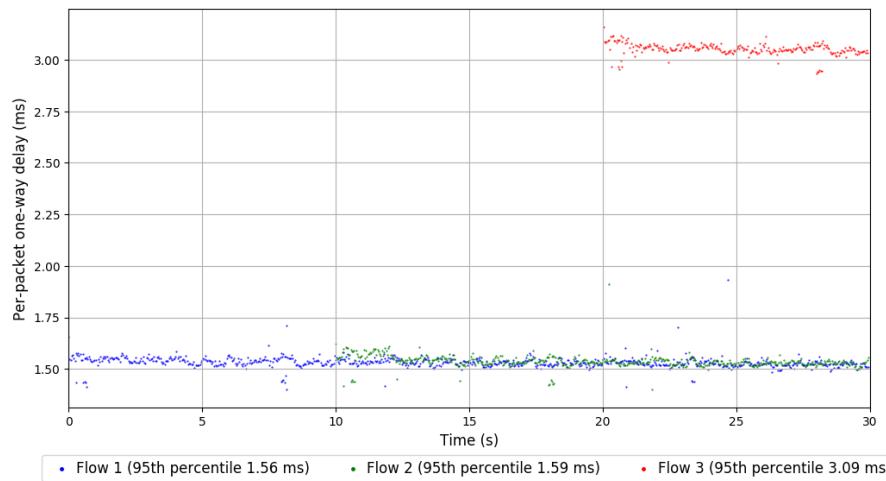
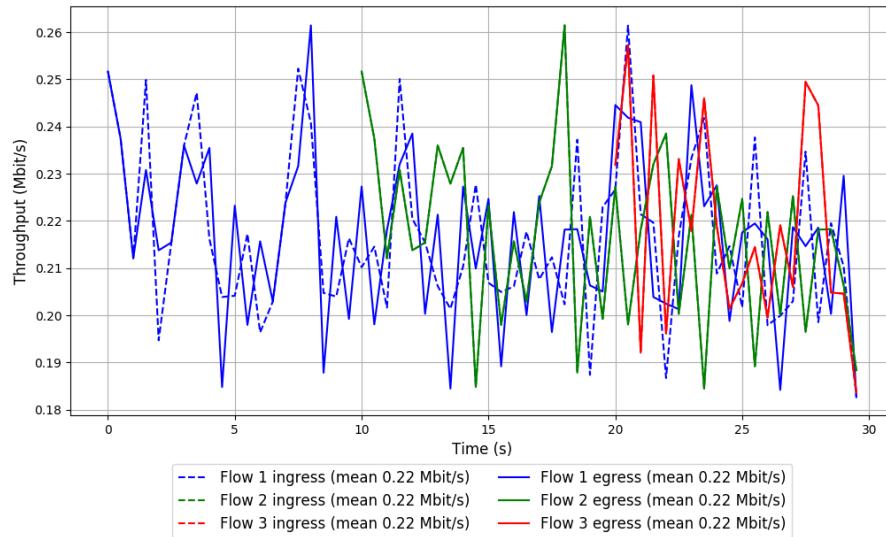


Run 4: Statistics of SCReAM

```
Start at: 2018-04-24 21:16:53
End at: 2018-04-24 21:17:23
Local clock offset: -5.665 ms
Remote clock offset: -5.222 ms

# Below is generated by plot.py at 2018-04-24 23:57:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 3.064 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.565 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.586 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.093 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

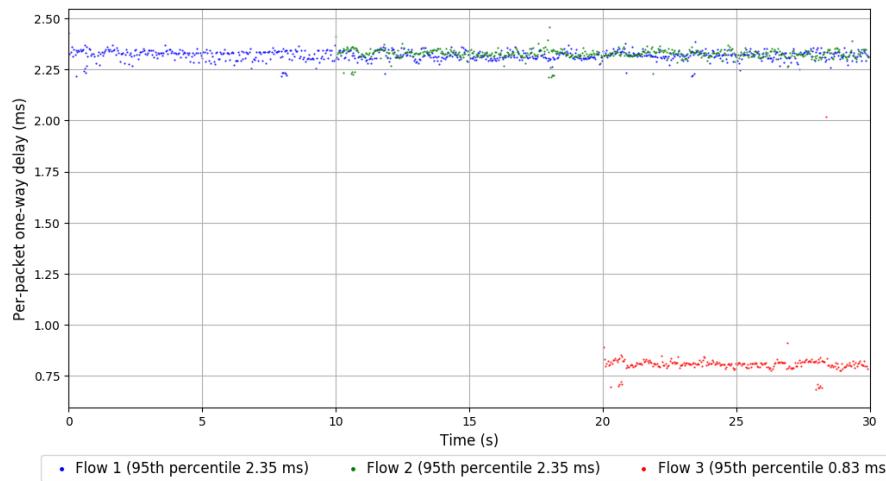
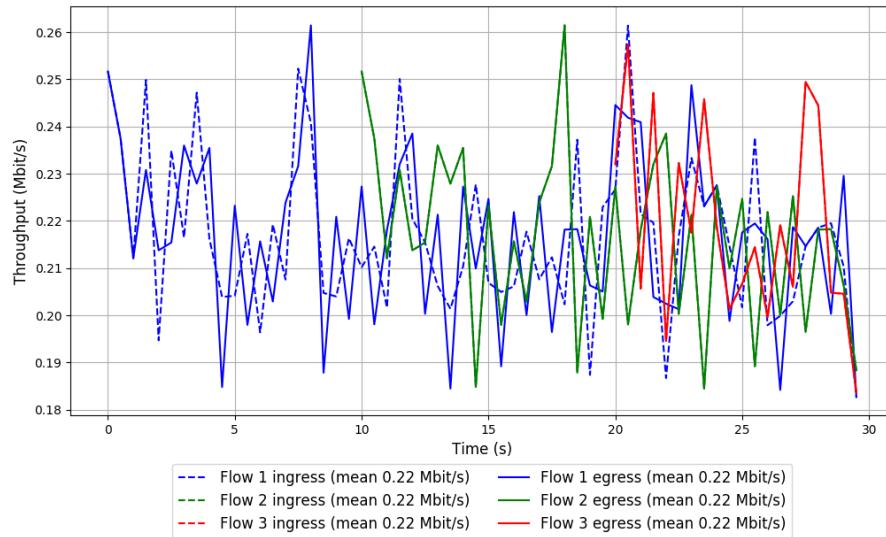


Run 5: Statistics of SCReAM

```
Start at: 2018-04-24 21:36:05
End at: 2018-04-24 21:36:35
Local clock offset: -4.838 ms
Remote clock offset: -4.776 ms

# Below is generated by plot.py at 2018-04-24 23:57:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 2.353 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.353 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.355 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.835 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

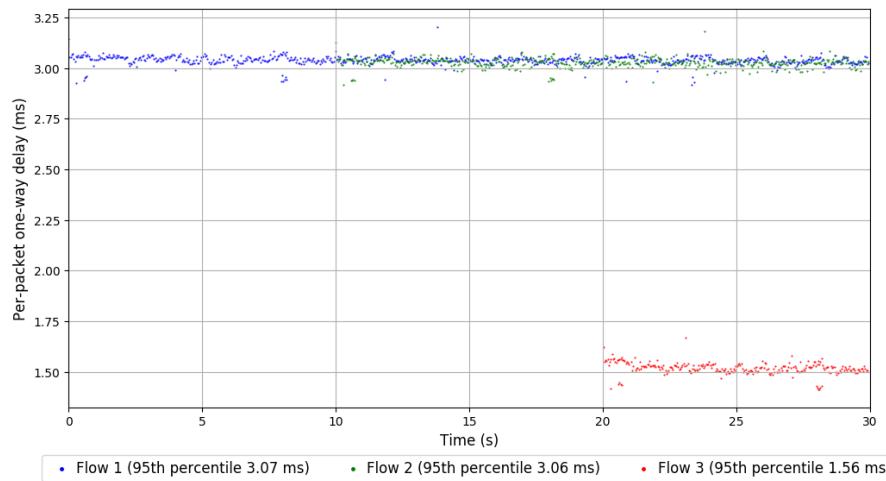
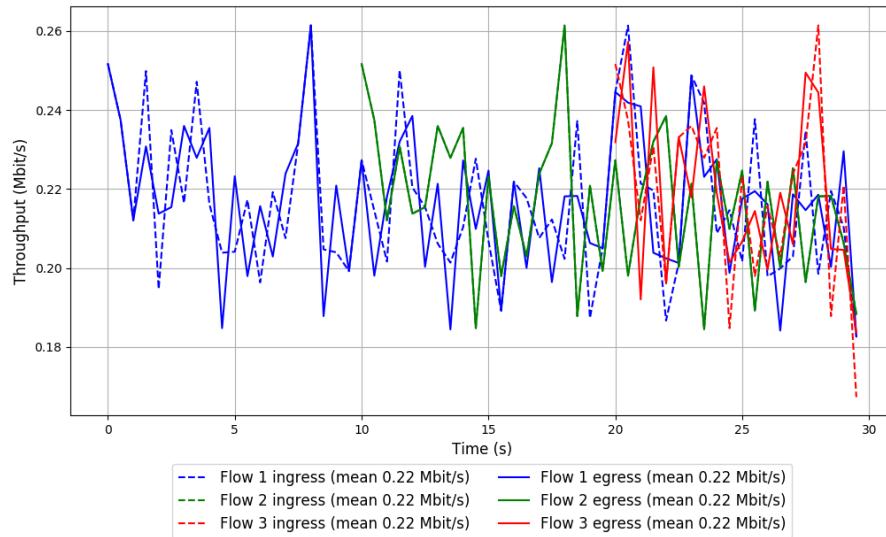


Run 6: Statistics of SCReAM

```
Start at: 2018-04-24 21:55:14
End at: 2018-04-24 21:55:44
Local clock offset: -5.899 ms
Remote clock offset: -4.504 ms

# Below is generated by plot.py at 2018-04-24 23:57:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 3.063 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.066 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.060 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.560 ms
Loss rate: 0.00%
```

Run 6: Report of SCReAM — Data Link

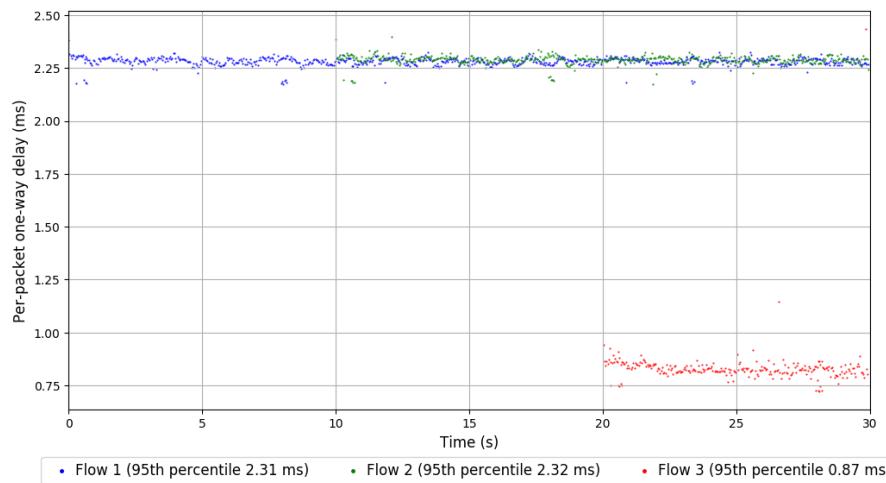
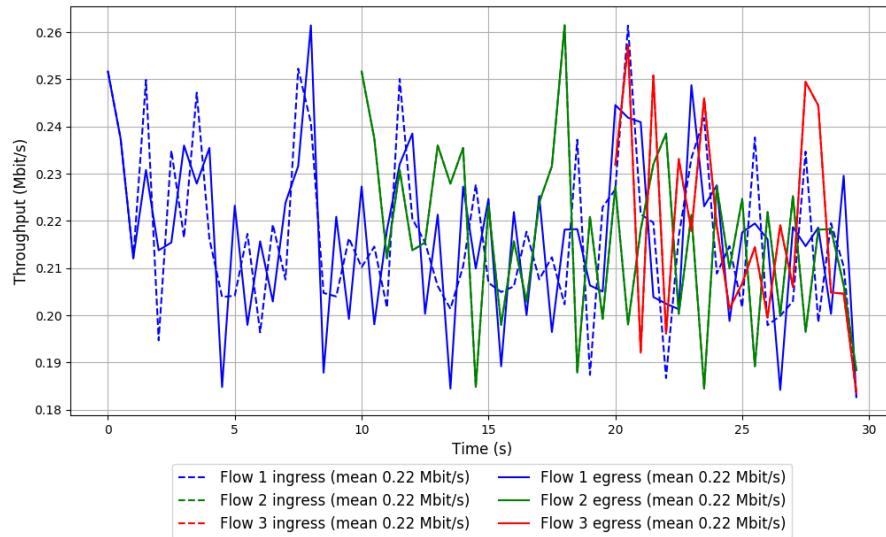


Run 7: Statistics of SCReAM

```
Start at: 2018-04-24 22:14:25
End at: 2018-04-24 22:14:55
Local clock offset: -5.265 ms
Remote clock offset: -4.167 ms

# Below is generated by plot.py at 2018-04-24 23:57:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 2.309 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.306 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.317 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.874 ms
Loss rate: 0.00%
```

Run 7: Report of SCReAM — Data Link

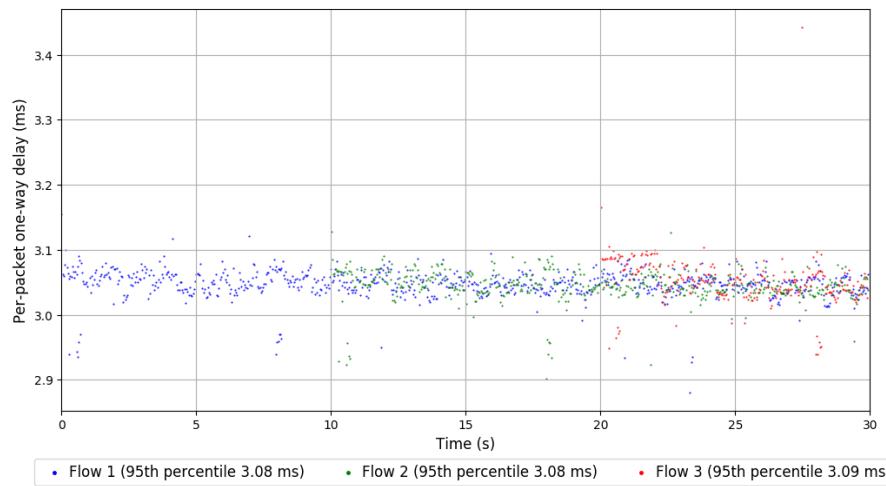
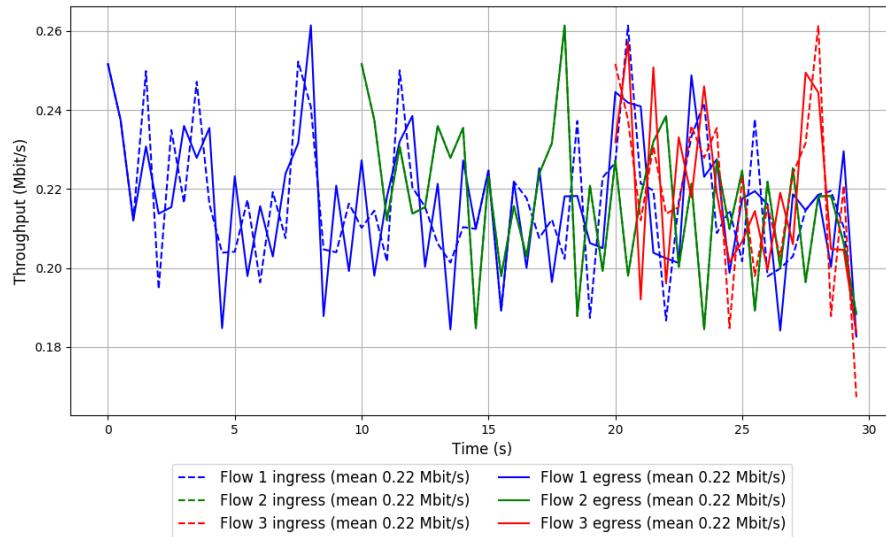


Run 8: Statistics of SCReAM

```
Start at: 2018-04-24 22:33:37
End at: 2018-04-24 22:34:07
Local clock offset: -6.032 ms
Remote clock offset: -3.769 ms

# Below is generated by plot.py at 2018-04-24 23:57:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 3.081 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.076 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.077 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.093 ms
Loss rate: 0.00%
```

Run 8: Report of SCReAM — Data Link

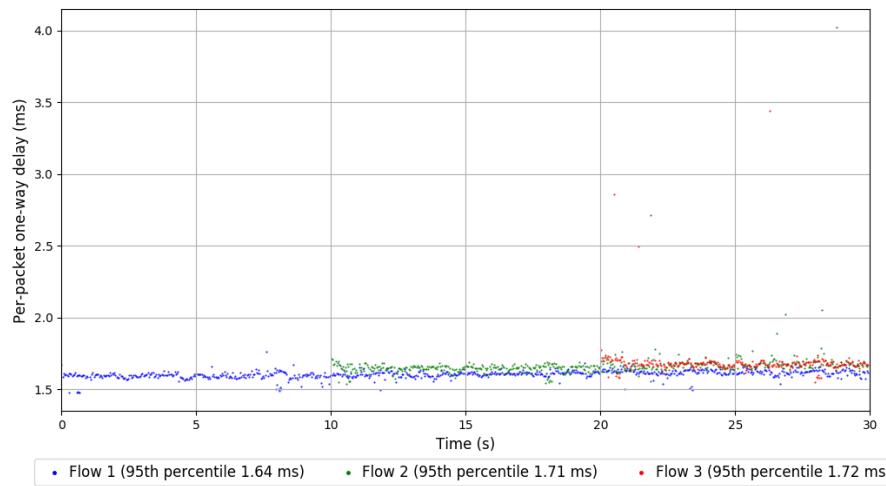
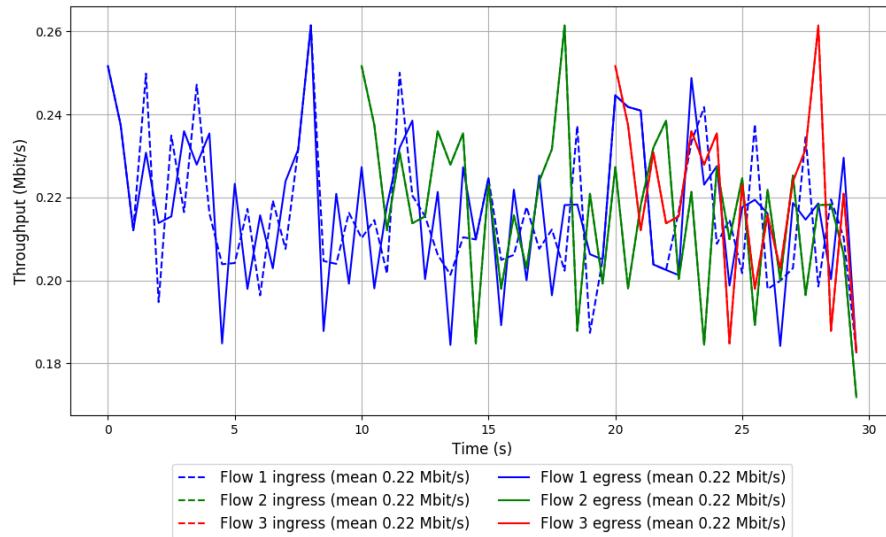


Run 9: Statistics of SCReAM

```
Start at: 2018-04-24 22:52:49
End at: 2018-04-24 22:53:19
Local clock offset: -5.881 ms
Remote clock offset: -6.168 ms

# Below is generated by plot.py at 2018-04-24 23:57:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.700 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.642 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.712 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.718 ms
Loss rate: 0.00%
```

Run 9: Report of SCReAM — Data Link

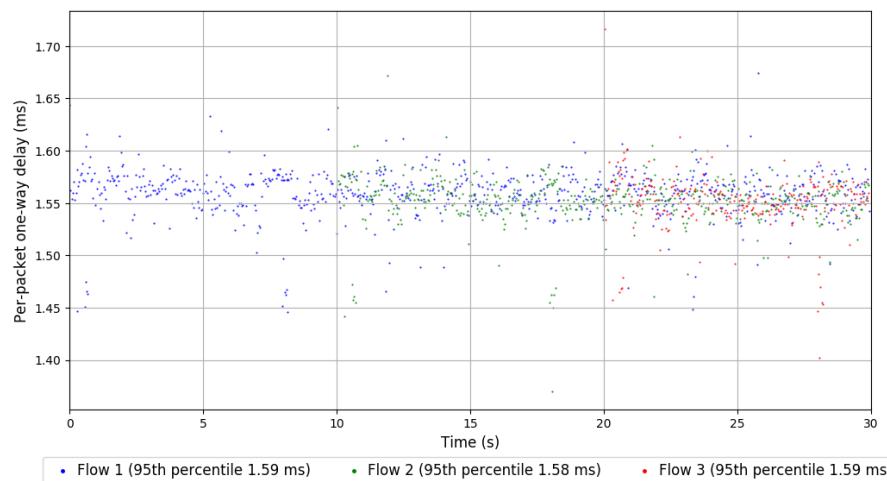
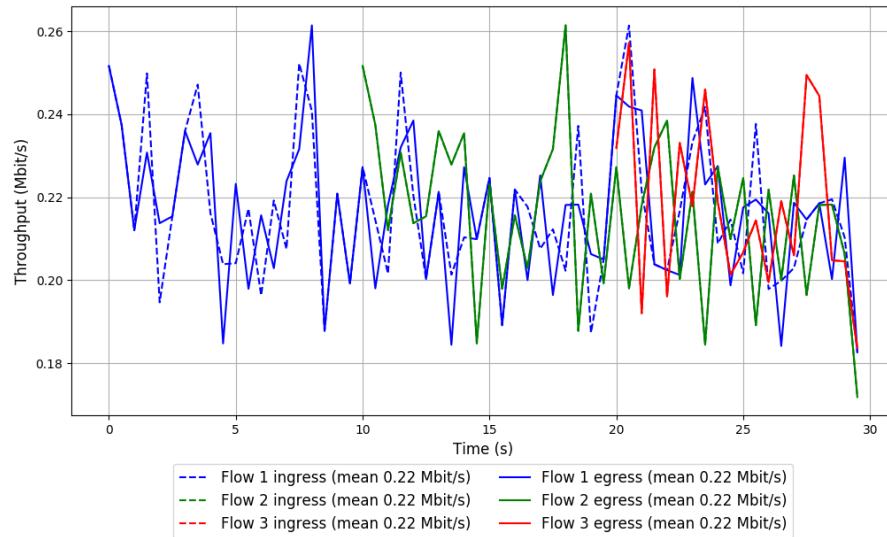


Run 10: Statistics of SCReAM

```
Start at: 2018-04-24 23:12:00
End at: 2018-04-24 23:12:30
Local clock offset: -4.068 ms
Remote clock offset: -6.702 ms

# Below is generated by plot.py at 2018-04-24 23:57:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.584 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.587 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.581 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.589 ms
Loss rate: 0.00%
```

Run 10: Report of SCReAM — Data Link

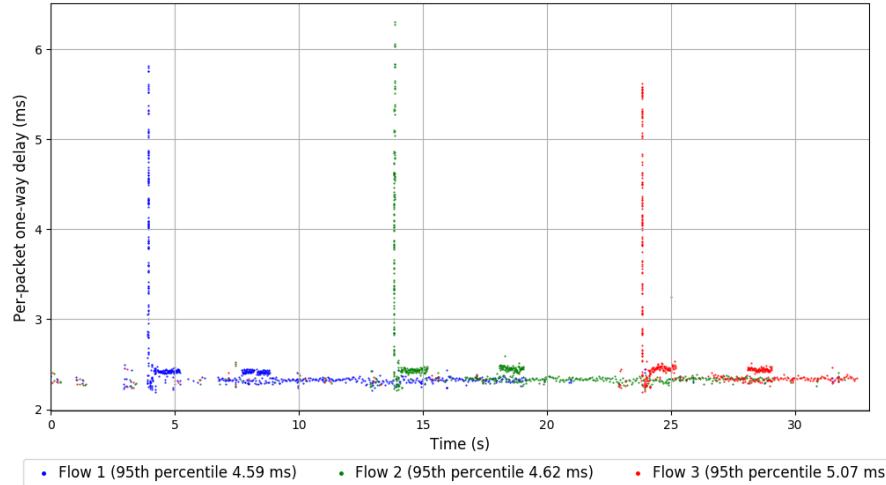
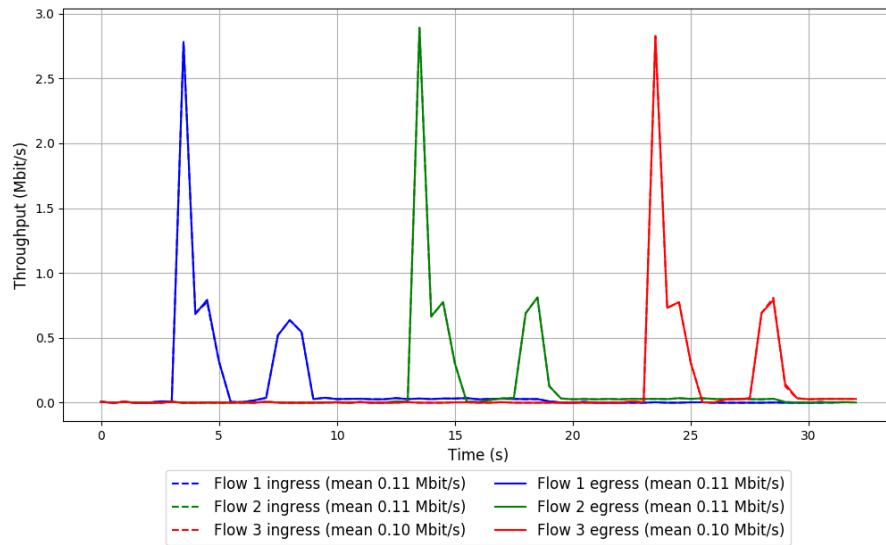


```
Run 1: Statistics of WebRTC media

Start at: 2018-04-24 20:25:59
End at: 2018-04-24 20:26:29
Local clock offset: -5.104 ms
Remote clock offset: -7.75 ms

# Below is generated by plot.py at 2018-04-24 23:57:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 4.741 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 4.595 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 4.625 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 5.072 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

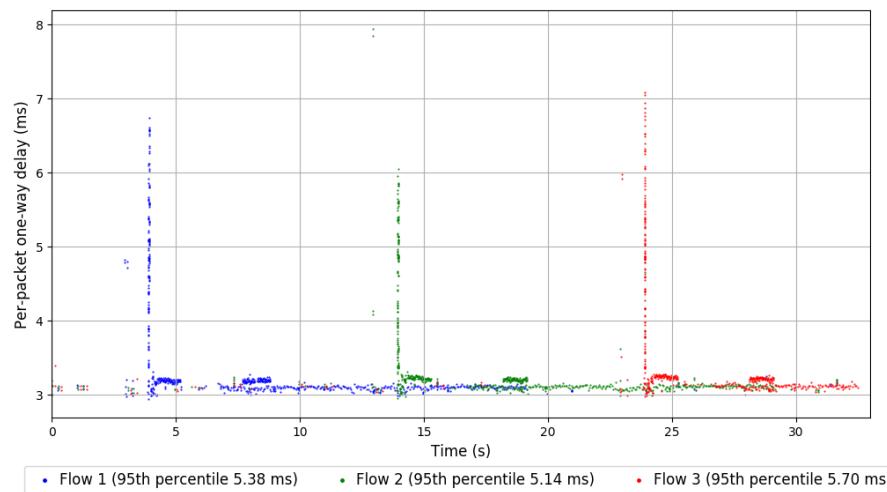
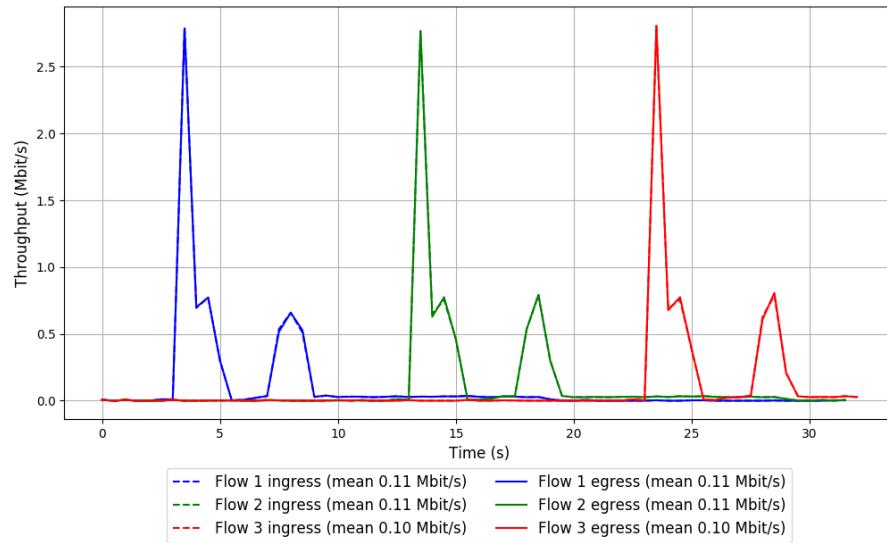


Run 2: Statistics of WebRTC media

```
Start at: 2018-04-24 20:45:11
End at: 2018-04-24 20:45:41
Local clock offset: -5.747 ms
Remote clock offset: -8.139 ms

# Below is generated by plot.py at 2018-04-24 23:57:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 5.398 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 5.385 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 5.142 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 5.700 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

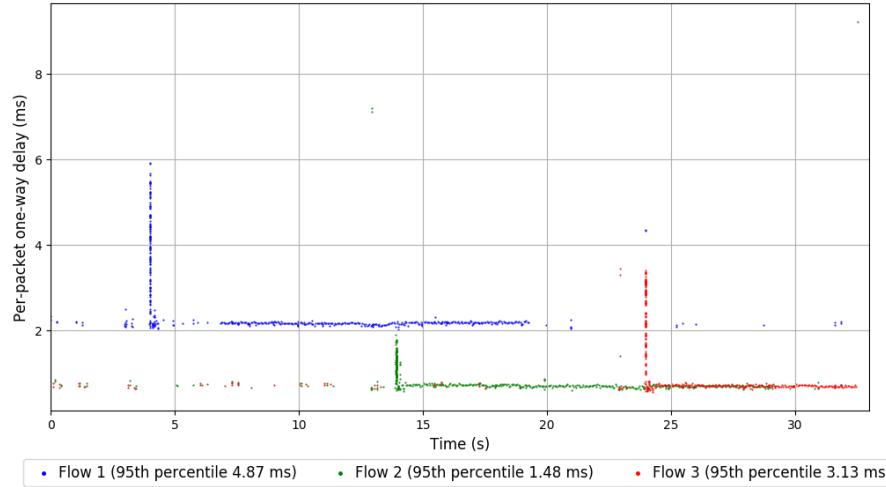
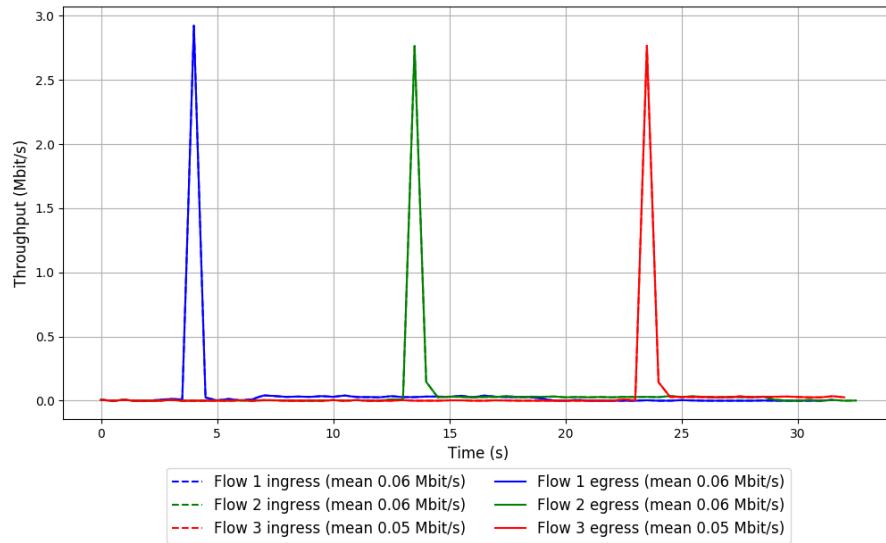


Run 3: Statistics of WebRTC media

```
Start at: 2018-04-24 21:04:24
End at: 2018-04-24 21:04:54
Local clock offset: -5.016 ms
Remote clock offset: -6.094 ms

# Below is generated by plot.py at 2018-04-24 23:57:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 3.901 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 4.872 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 1.483 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 3.133 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

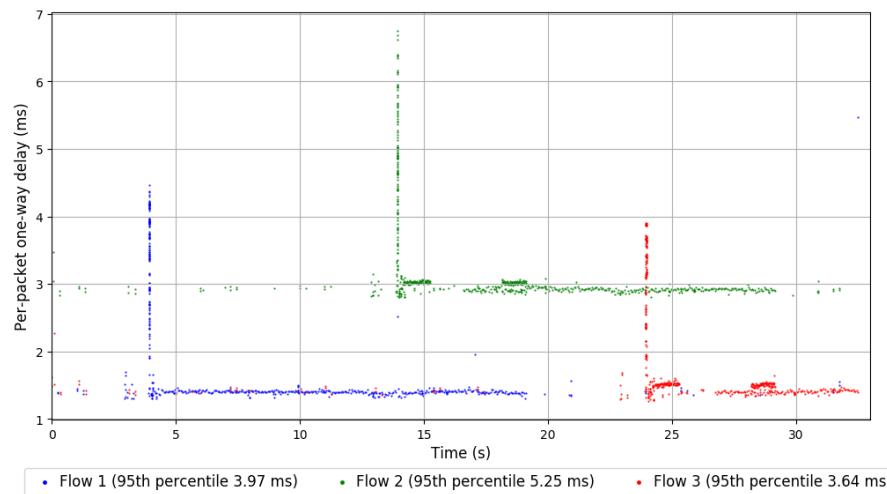
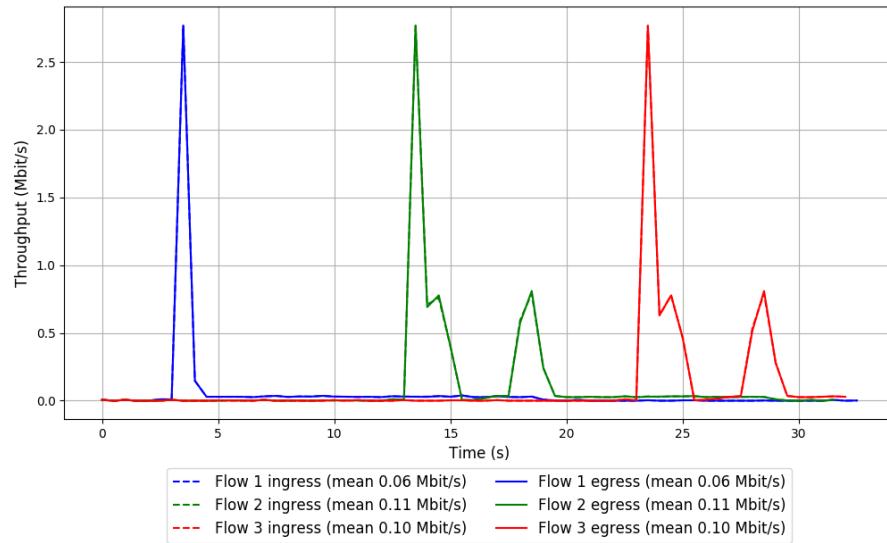


Run 4: Statistics of WebRTC media

```
Start at: 2018-04-24 21:23:36
End at: 2018-04-24 21:24:06
Local clock offset: -5.552 ms
Remote clock offset: -4.931 ms

# Below is generated by plot.py at 2018-04-24 23:57:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 4.255 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 3.968 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 5.253 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 3.640 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link

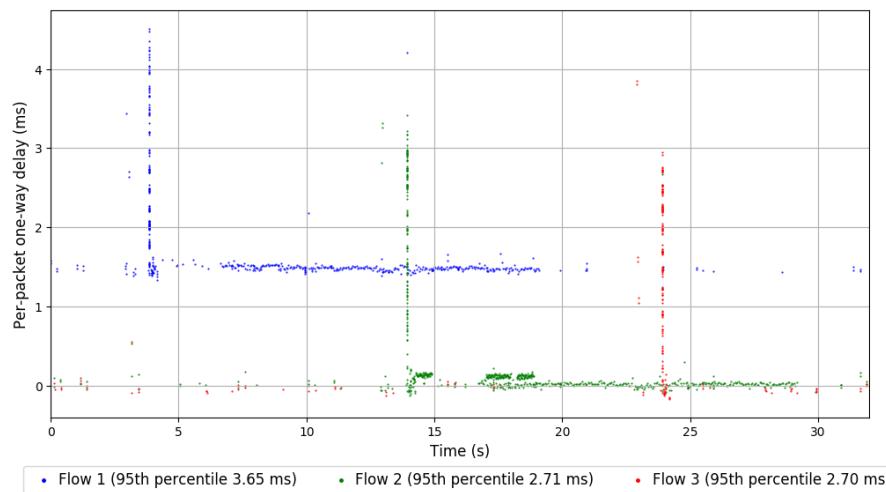
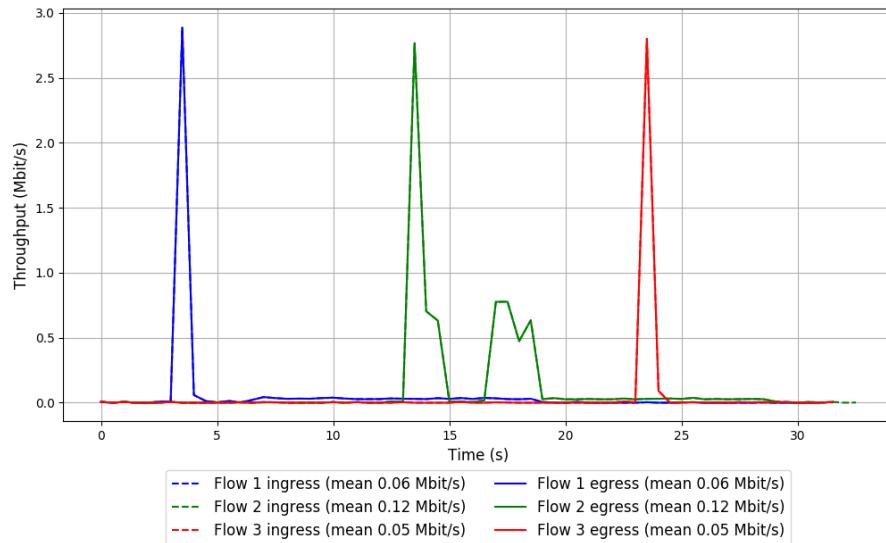


Run 5: Statistics of WebRTC media

```
Start at: 2018-04-24 21:42:46
End at: 2018-04-24 21:43:16
Local clock offset: -4.238 ms
Remote clock offset: -4.715 ms

# Below is generated by plot.py at 2018-04-24 23:57:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.903 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 3.648 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 2.713 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 2.704 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

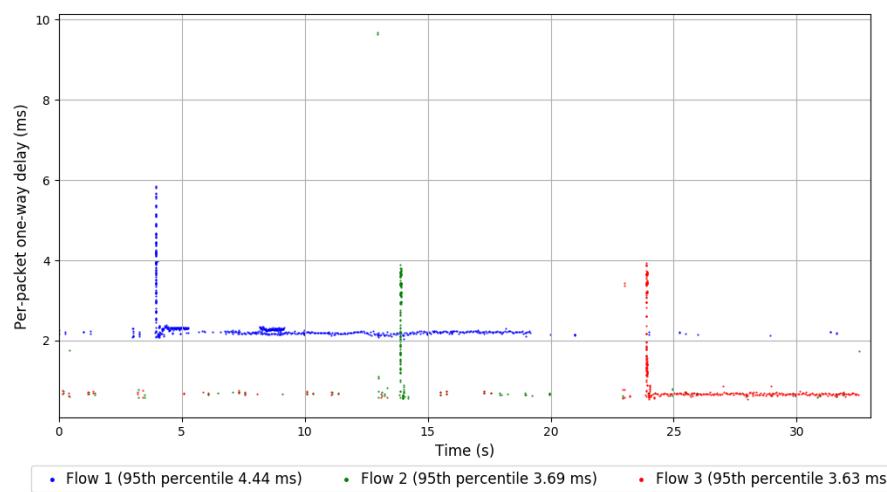
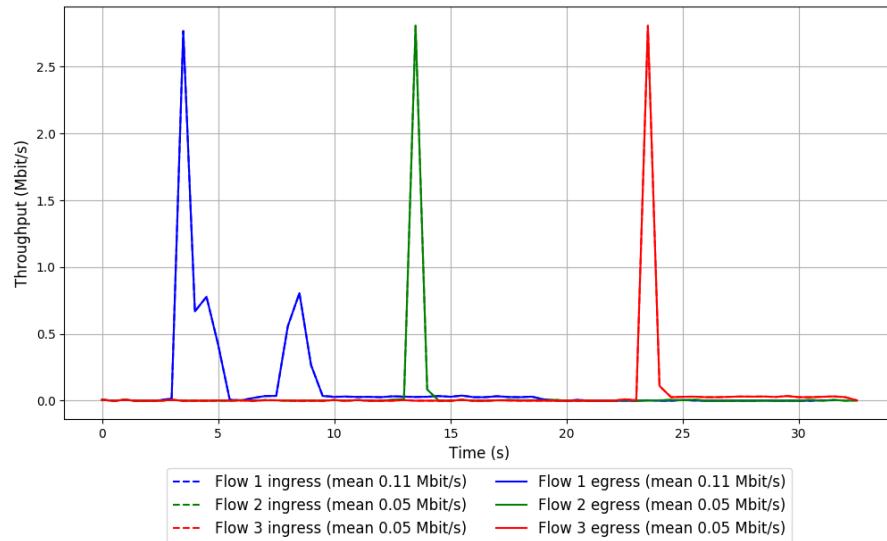


```
Run 6: Statistics of WebRTC media

Start at: 2018-04-24 22:01:56
End at: 2018-04-24 22:02:26
Local clock offset: -5.22 ms
Remote clock offset: -4.445 ms

# Below is generated by plot.py at 2018-04-24 23:57:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 3.925 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 4.443 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 3.693 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 3.635 ms
Loss rate: 0.00%
```

Run 6: Report of WebRTC media — Data Link

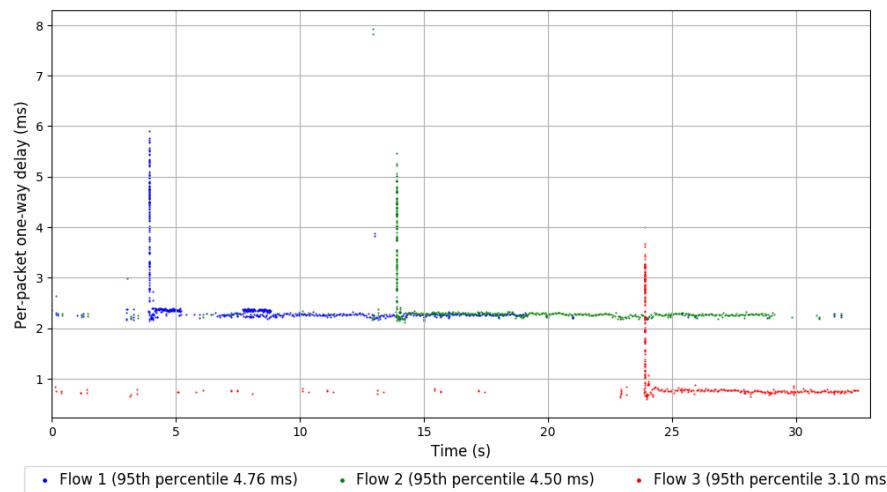
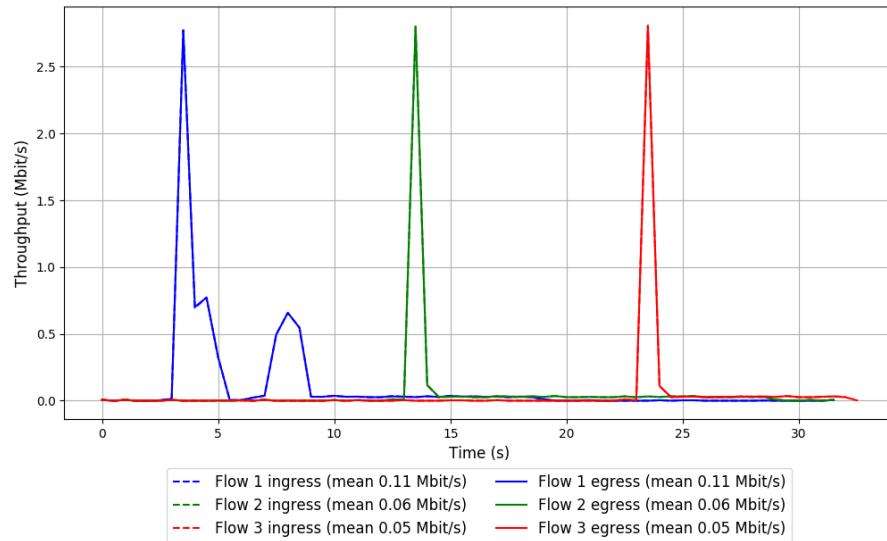


```
Run 7: Statistics of WebRTC media

Start at: 2018-04-24 22:21:08
End at: 2018-04-24 22:21:38
Local clock offset: -5.346 ms
Remote clock offset: -4.075 ms

# Below is generated by plot.py at 2018-04-24 23:57:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 4.498 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 4.765 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 4.498 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 3.103 ms
Loss rate: 0.00%
```

Run 7: Report of WebRTC media — Data Link

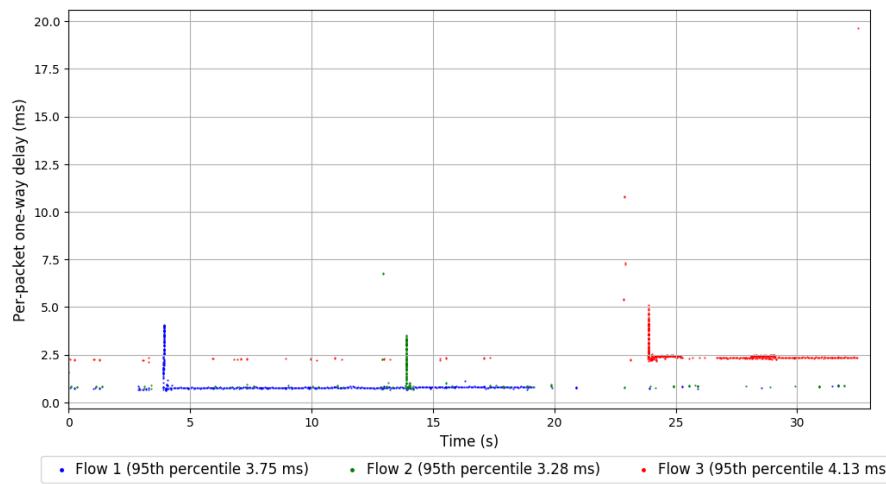
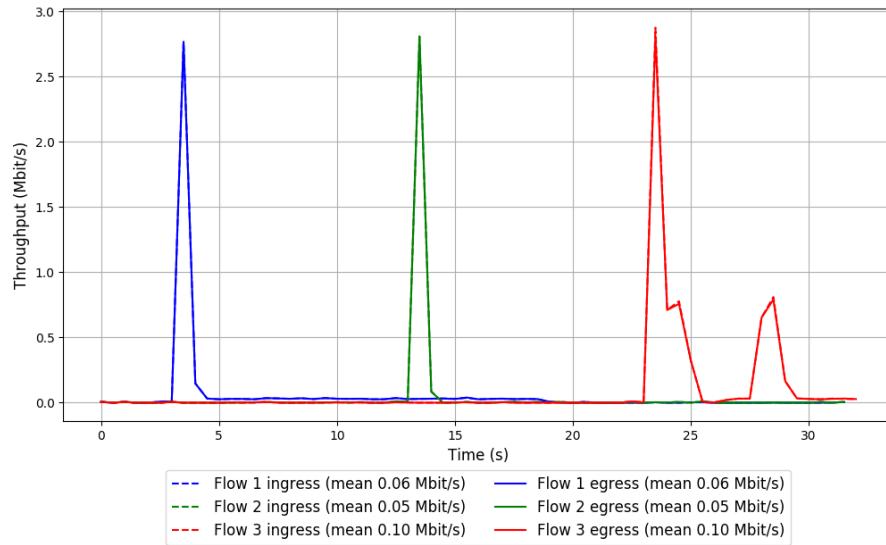


Run 8: Statistics of WebRTC media

```
Start at: 2018-04-24 22:40:20
End at: 2018-04-24 22:40:50
Local clock offset: -5.387 ms
Remote clock offset: -4.932 ms

# Below is generated by plot.py at 2018-04-24 23:57:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 3.911 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 3.752 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 3.282 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 4.128 ms
Loss rate: 1.61%
```

Run 8: Report of WebRTC media — Data Link

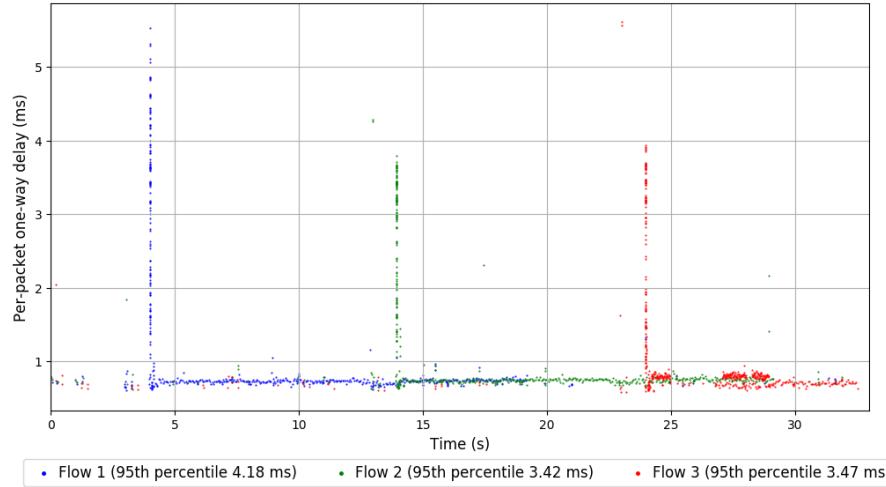
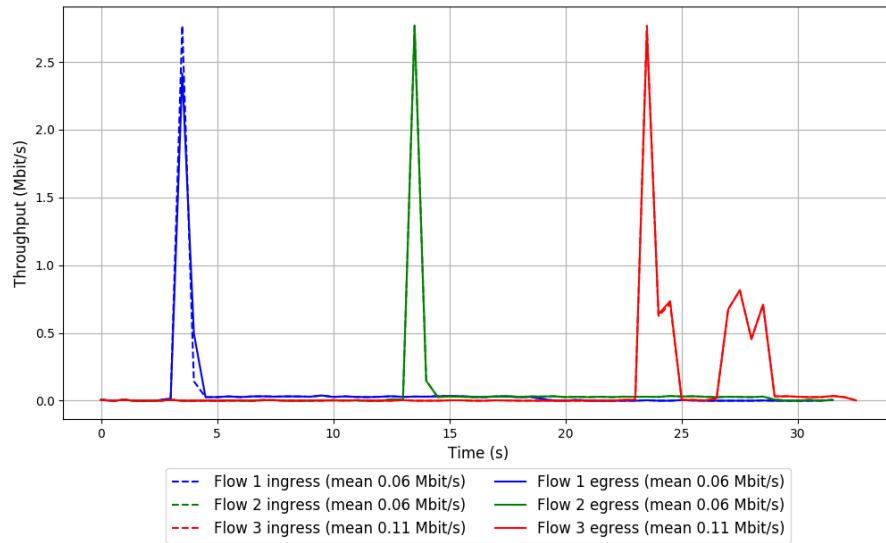


Run 9: Statistics of WebRTC media

```
Start at: 2018-04-24 22:59:30
End at: 2018-04-24 23:00:00
Local clock offset: -4.914 ms
Remote clock offset: -6.482 ms

# Below is generated by plot.py at 2018-04-24 23:57:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 3.623 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 4.183 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 3.425 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 3.474 ms
Loss rate: 0.00%
```

Run 9: Report of WebRTC media — Data Link

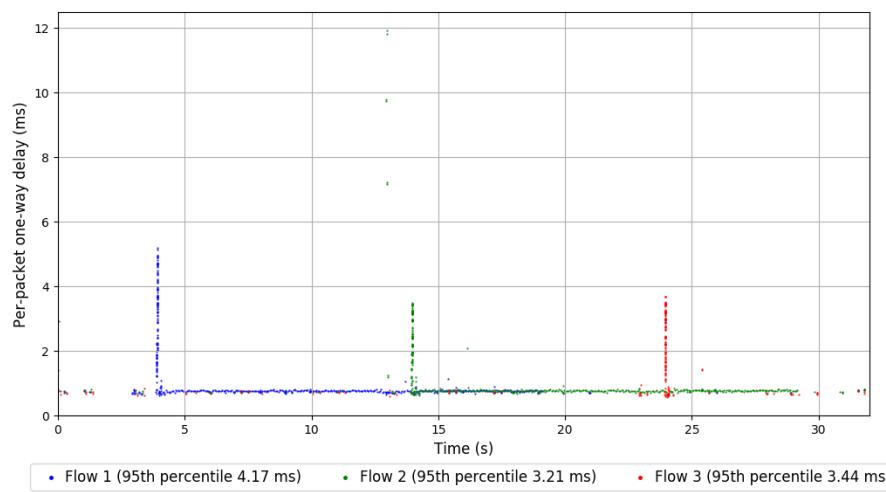
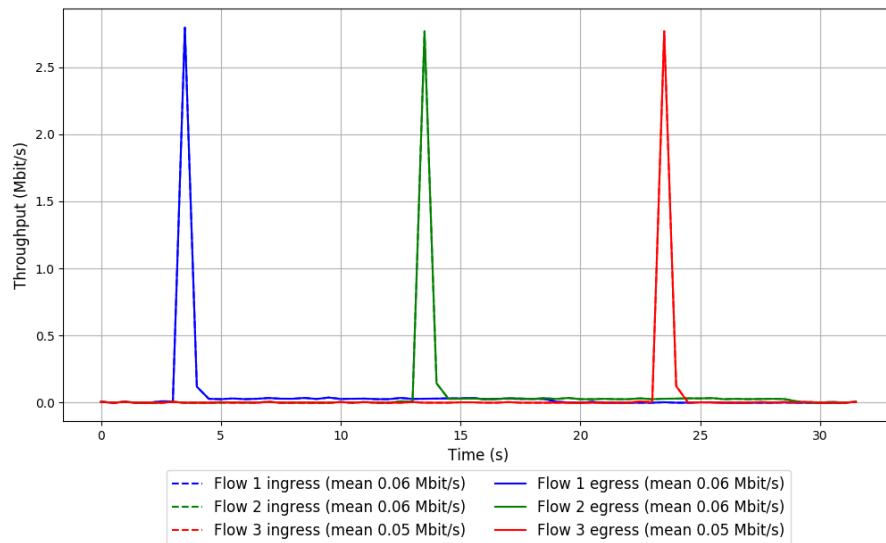


```
Run 10: Statistics of WebRTC media
```

```
Start at: 2018-04-24 23:18:43
End at: 2018-04-24 23:19:13
Local clock offset: -4.795 ms
Remote clock offset: -6.719 ms

# Below is generated by plot.py at 2018-04-24 23:57:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 3.491 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 4.165 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 3.211 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 3.445 ms
Loss rate: 0.00%
```

Run 10: Report of WebRTC media — Data Link

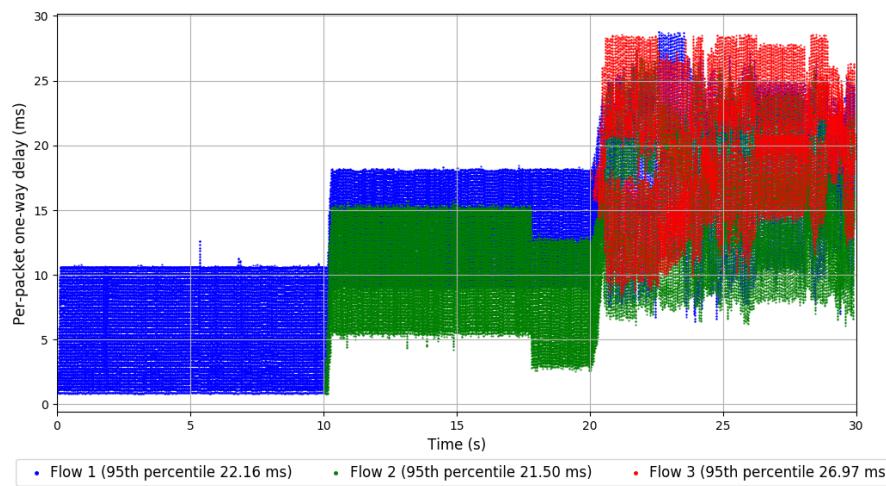
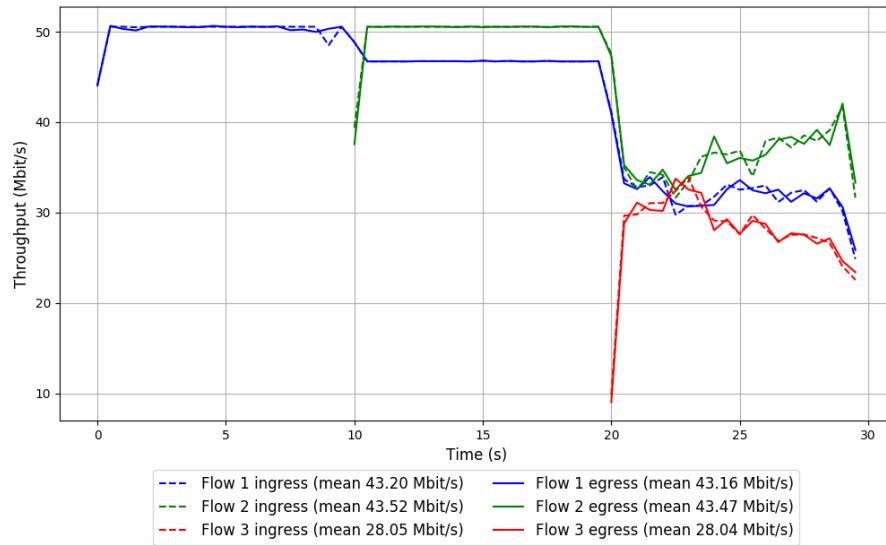


Run 1: Statistics of Sprout

```
Start at: 2018-04-24 20:24:52
End at: 2018-04-24 20:25:22
Local clock offset: -5.041 ms
Remote clock offset: -7.739 ms

# Below is generated by plot.py at 2018-04-24 23:57:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.34 Mbit/s
95th percentile per-packet one-way delay: 23.471 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 43.16 Mbit/s
95th percentile per-packet one-way delay: 22.159 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 43.47 Mbit/s
95th percentile per-packet one-way delay: 21.503 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 28.04 Mbit/s
95th percentile per-packet one-way delay: 26.974 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

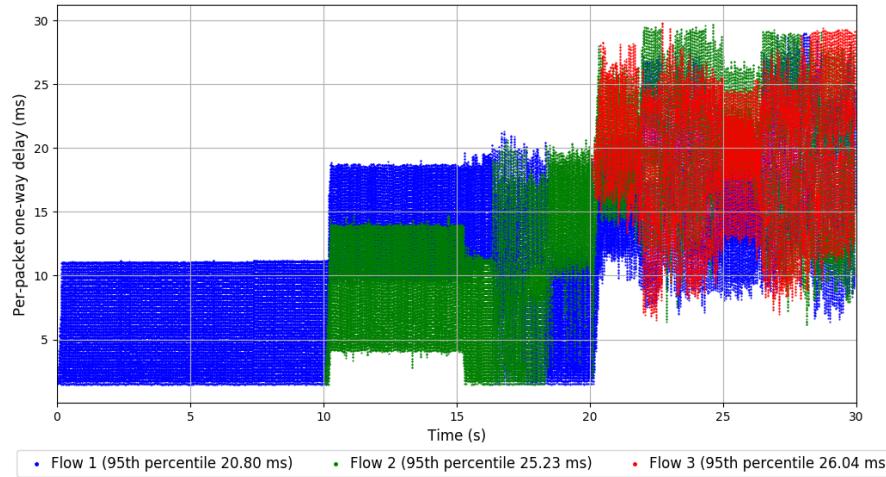
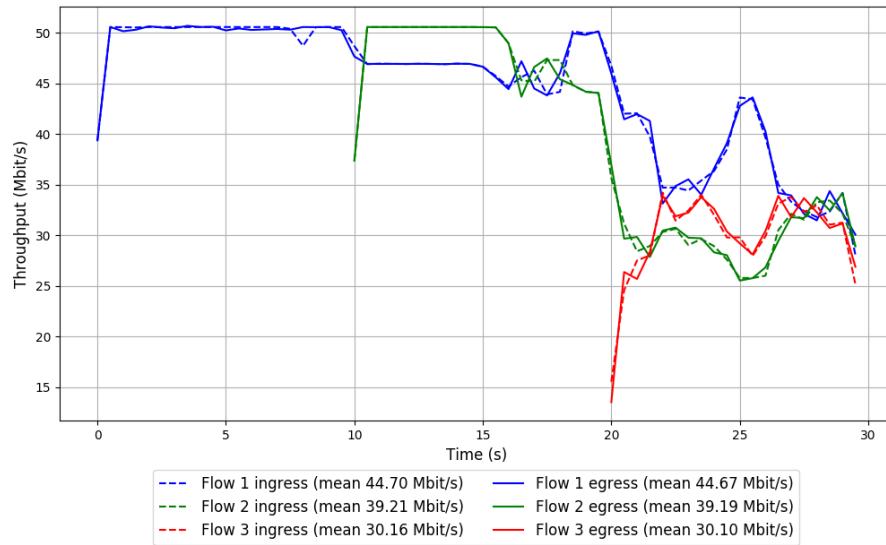


Run 2: Statistics of Sprout

```
Start at: 2018-04-24 20:44:05
End at: 2018-04-24 20:44:35
Local clock offset: -5.674 ms
Remote clock offset: -8.212 ms

# Below is generated by plot.py at 2018-04-24 23:57:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.67 Mbit/s
95th percentile per-packet one-way delay: 24.196 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.67 Mbit/s
95th percentile per-packet one-way delay: 20.797 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.19 Mbit/s
95th percentile per-packet one-way delay: 25.232 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.10 Mbit/s
95th percentile per-packet one-way delay: 26.040 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

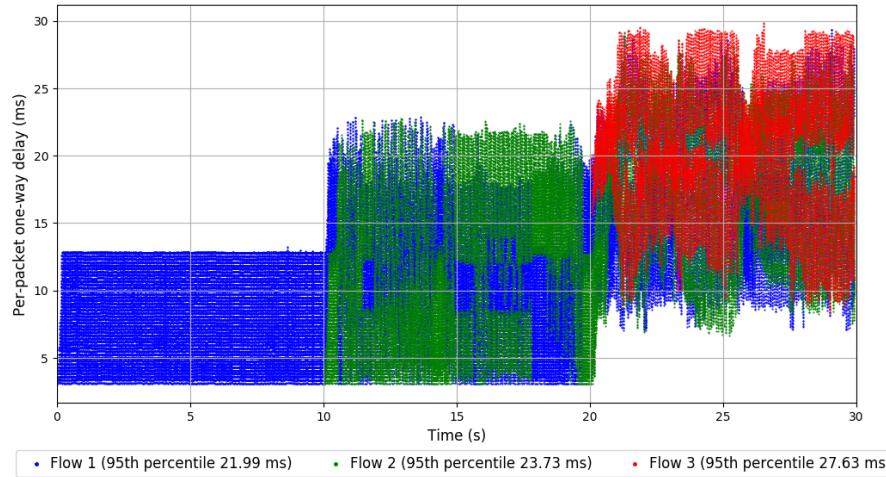
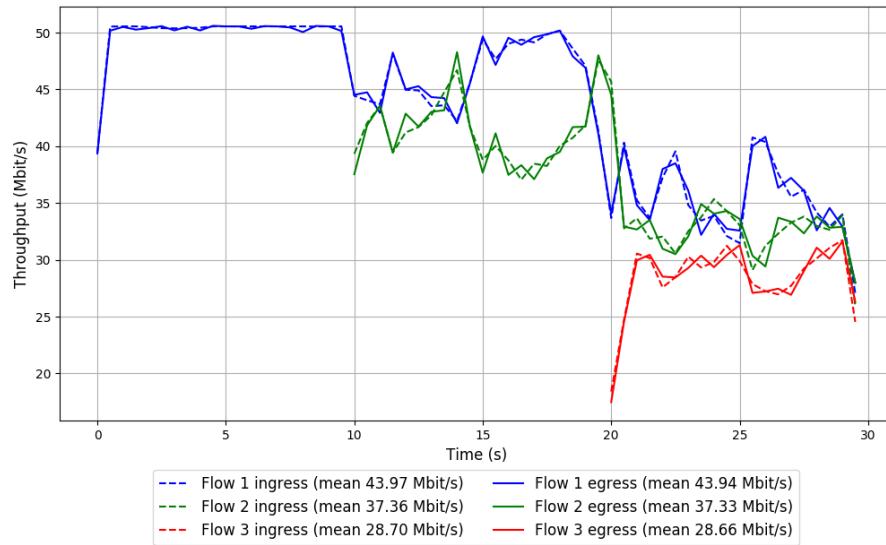


Run 3: Statistics of Sprout

```
Start at: 2018-04-24 21:03:18
End at: 2018-04-24 21:03:48
Local clock offset: -5.831 ms
Remote clock offset: -6.128 ms

# Below is generated by plot.py at 2018-04-24 23:57:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.23 Mbit/s
95th percentile per-packet one-way delay: 24.318 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 43.94 Mbit/s
95th percentile per-packet one-way delay: 21.990 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 37.33 Mbit/s
95th percentile per-packet one-way delay: 23.732 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 28.66 Mbit/s
95th percentile per-packet one-way delay: 27.627 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

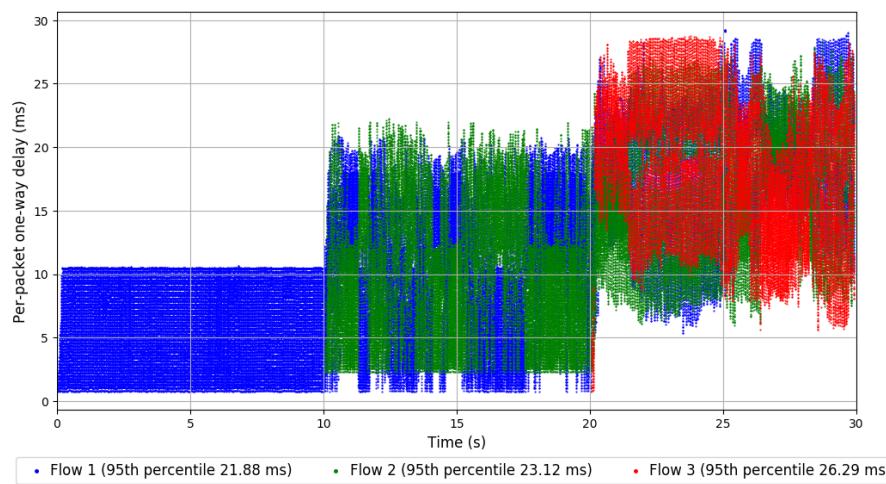
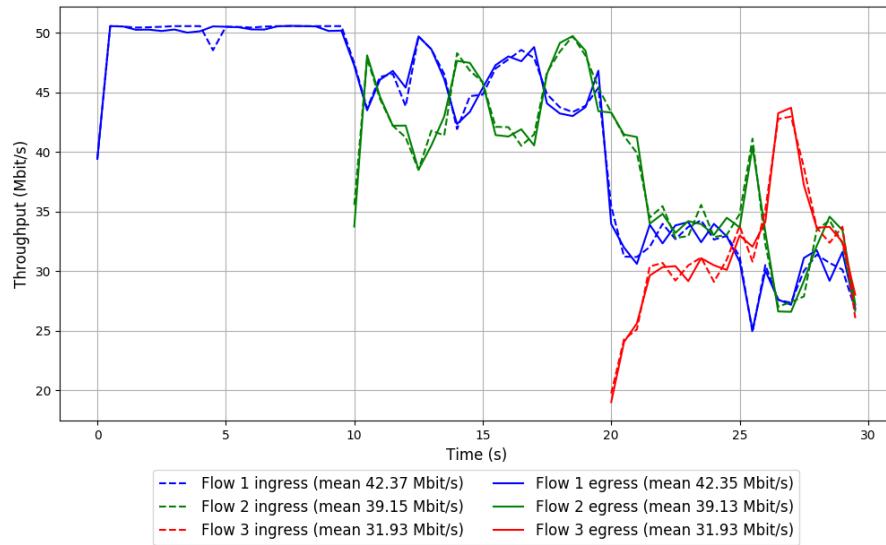


Run 4: Statistics of Sprout

```
Start at: 2018-04-24 21:22:30
End at: 2018-04-24 21:23:00
Local clock offset: -4.834 ms
Remote clock offset: -4.914 ms

# Below is generated by plot.py at 2018-04-24 23:57:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.91 Mbit/s
95th percentile per-packet one-way delay: 23.421 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.35 Mbit/s
95th percentile per-packet one-way delay: 21.882 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.13 Mbit/s
95th percentile per-packet one-way delay: 23.120 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 31.93 Mbit/s
95th percentile per-packet one-way delay: 26.292 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

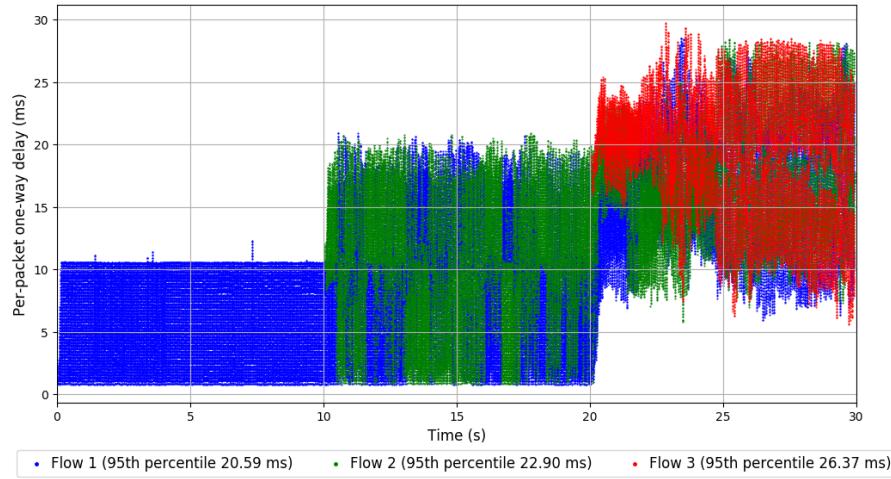
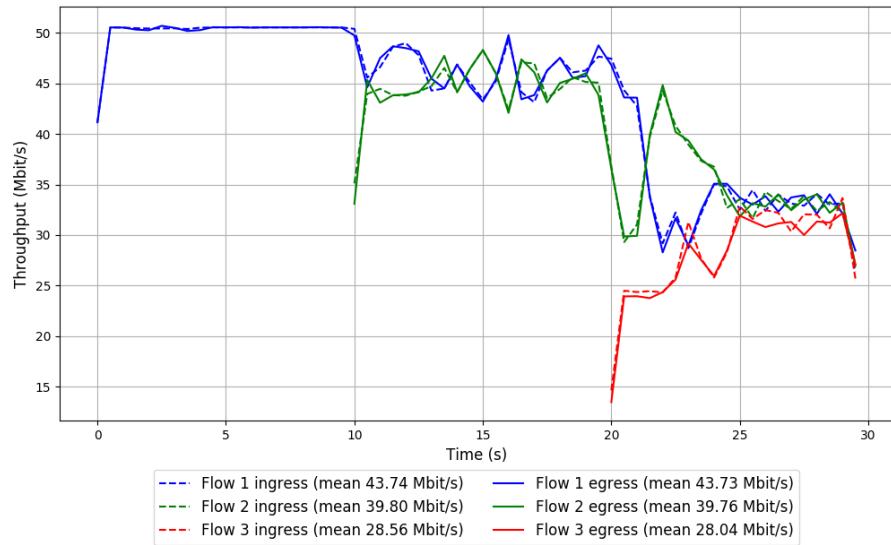


Run 5: Statistics of Sprout

```
Start at: 2018-04-24 21:41:40
End at: 2018-04-24 21:42:10
Local clock offset: -4.978 ms
Remote clock offset: -4.705 ms

# Below is generated by plot.py at 2018-04-24 23:57:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.43 Mbit/s
95th percentile per-packet one-way delay: 23.145 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 43.73 Mbit/s
95th percentile per-packet one-way delay: 20.593 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.76 Mbit/s
95th percentile per-packet one-way delay: 22.904 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 28.04 Mbit/s
95th percentile per-packet one-way delay: 26.367 ms
Loss rate: 1.80%
```

Run 5: Report of Sprout — Data Link

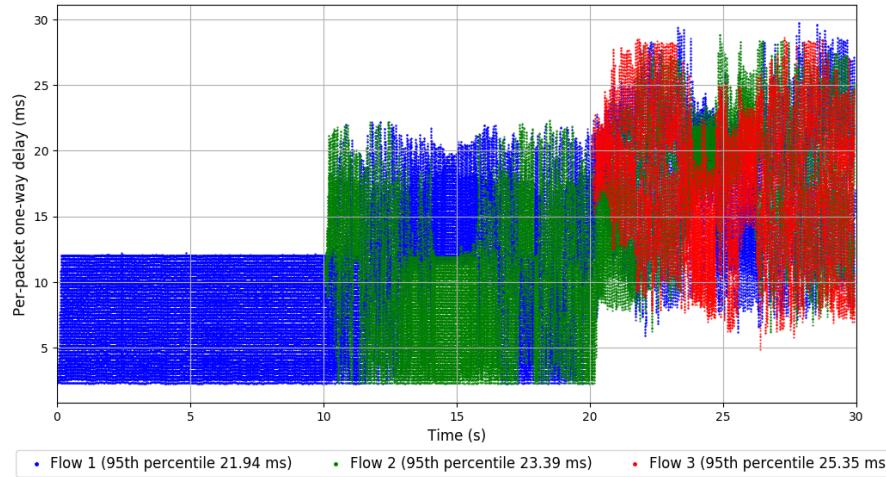
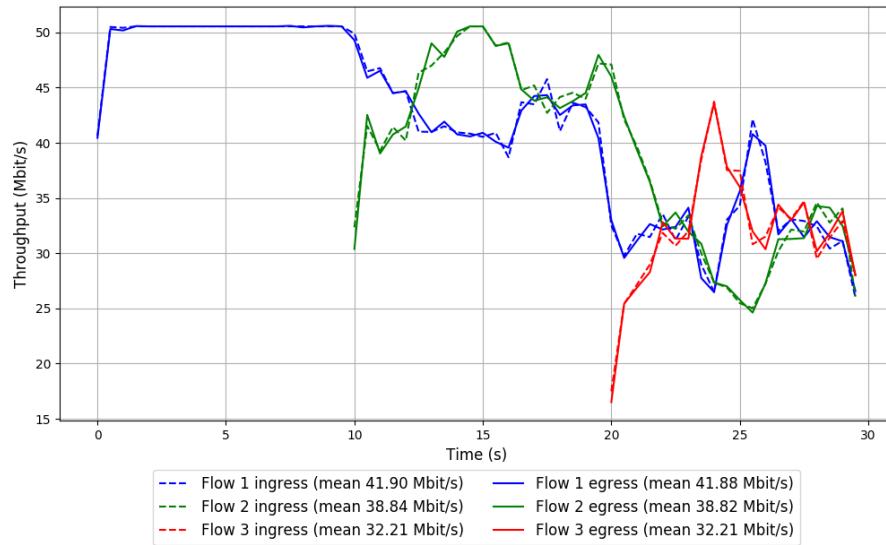


Run 6: Statistics of Sprout

```
Start at: 2018-04-24 22:00:50
End at: 2018-04-24 22:01:20
Local clock offset: -5.218 ms
Remote clock offset: -4.396 ms

# Below is generated by plot.py at 2018-04-24 23:57:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.34 Mbit/s
95th percentile per-packet one-way delay: 23.293 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.88 Mbit/s
95th percentile per-packet one-way delay: 21.943 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.82 Mbit/s
95th percentile per-packet one-way delay: 23.395 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 32.21 Mbit/s
95th percentile per-packet one-way delay: 25.353 ms
Loss rate: 0.00%
```

Run 6: Report of Sprout — Data Link

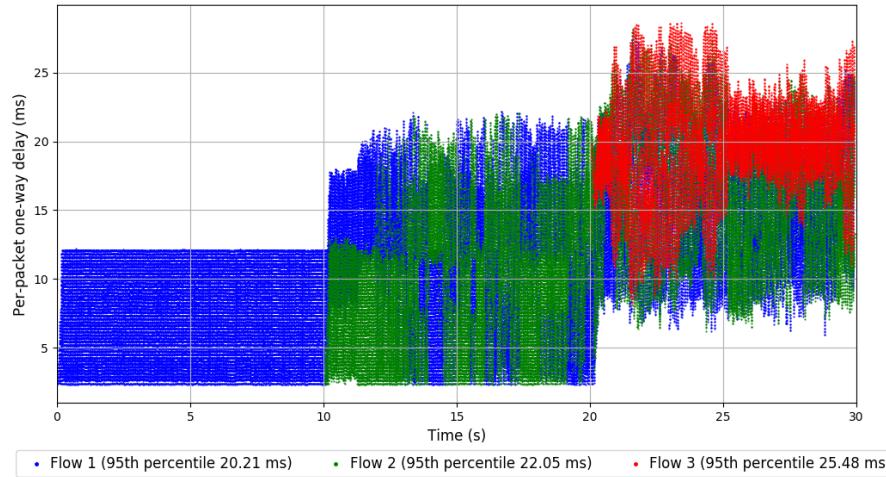
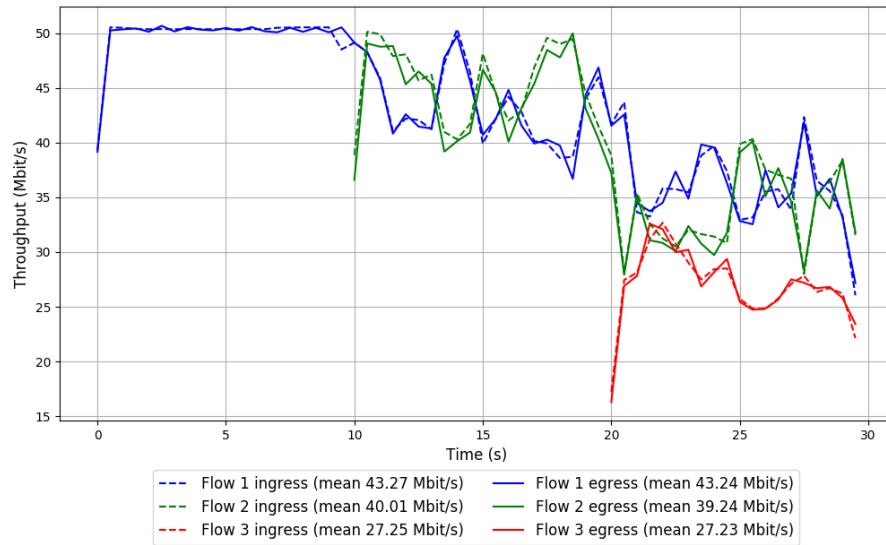


Run 7: Statistics of Sprout

```
Start at: 2018-04-24 22:20:02
End at: 2018-04-24 22:20:32
Local clock offset: -5.348 ms
Remote clock offset: -4.045 ms

# Below is generated by plot.py at 2018-04-24 23:58:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.33 Mbit/s
95th percentile per-packet one-way delay: 22.166 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 43.24 Mbit/s
95th percentile per-packet one-way delay: 20.206 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.24 Mbit/s
95th percentile per-packet one-way delay: 22.053 ms
Loss rate: 1.89%
-- Flow 3:
Average throughput: 27.23 Mbit/s
95th percentile per-packet one-way delay: 25.475 ms
Loss rate: 0.00%
```

Run 7: Report of Sprout — Data Link

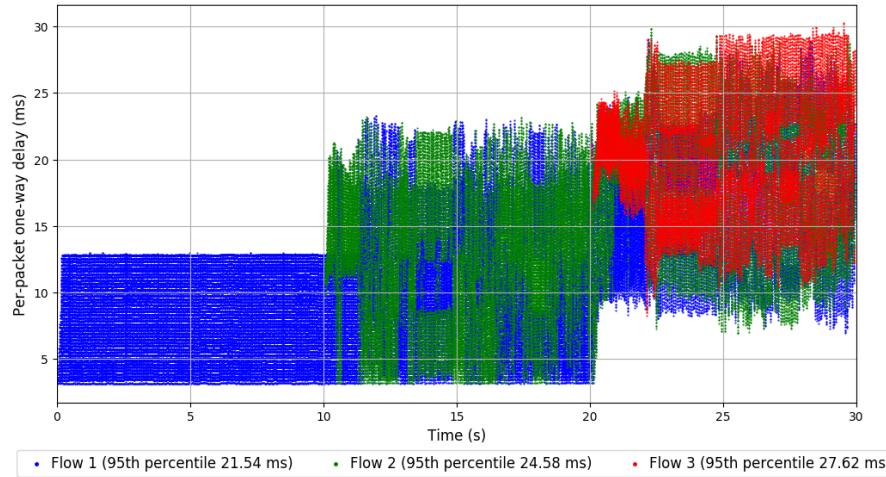
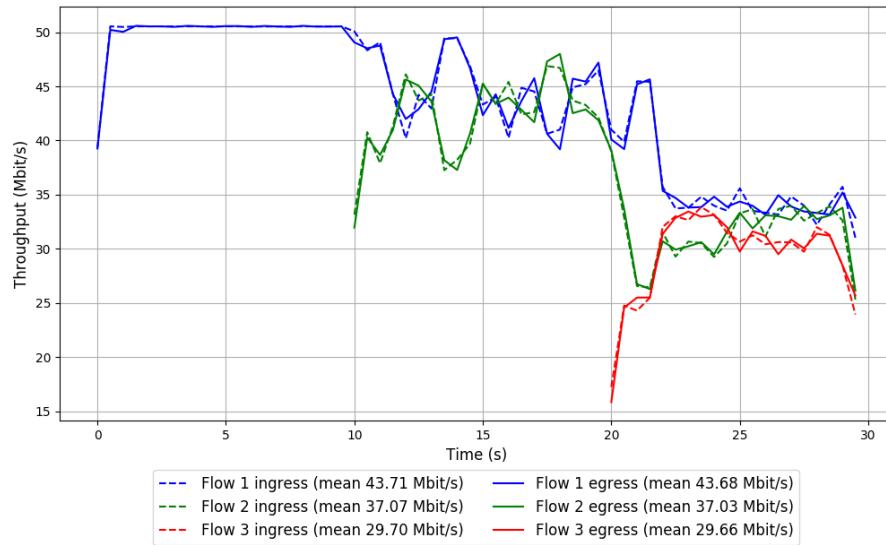


Run 8: Statistics of Sprout

```
Start at: 2018-04-24 22:39:13
End at: 2018-04-24 22:39:43
Local clock offset: -6.113 ms
Remote clock offset: -4.617 ms

# Below is generated by plot.py at 2018-04-24 23:58:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.10 Mbit/s
95th percentile per-packet one-way delay: 24.434 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 43.68 Mbit/s
95th percentile per-packet one-way delay: 21.542 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.03 Mbit/s
95th percentile per-packet one-way delay: 24.578 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 29.66 Mbit/s
95th percentile per-packet one-way delay: 27.621 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link

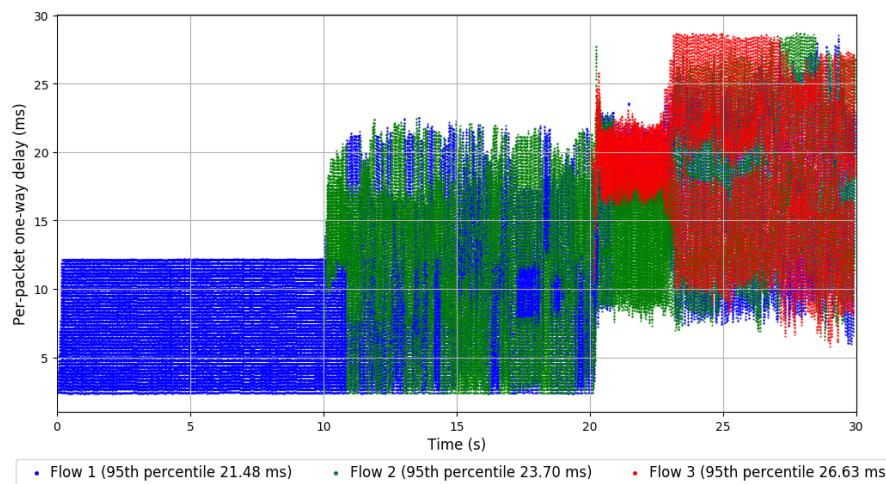
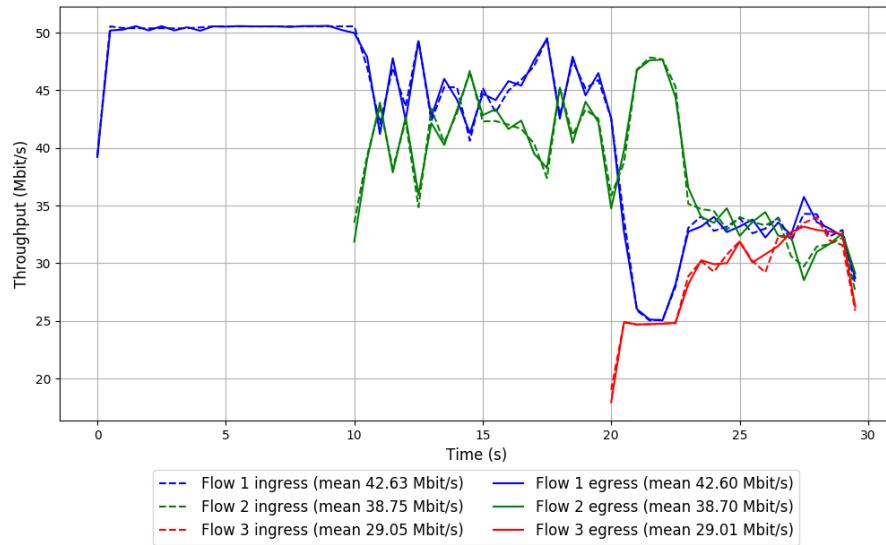


Run 9: Statistics of Sprout

```
Start at: 2018-04-24 22:58:24
End at: 2018-04-24 22:58:54
Local clock offset: -5.002 ms
Remote clock offset: -6.358 ms

# Below is generated by plot.py at 2018-04-24 23:58:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.96 Mbit/s
95th percentile per-packet one-way delay: 23.516 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.60 Mbit/s
95th percentile per-packet one-way delay: 21.479 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.70 Mbit/s
95th percentile per-packet one-way delay: 23.700 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.01 Mbit/s
95th percentile per-packet one-way delay: 26.629 ms
Loss rate: 0.00%
```

Run 9: Report of Sprout — Data Link

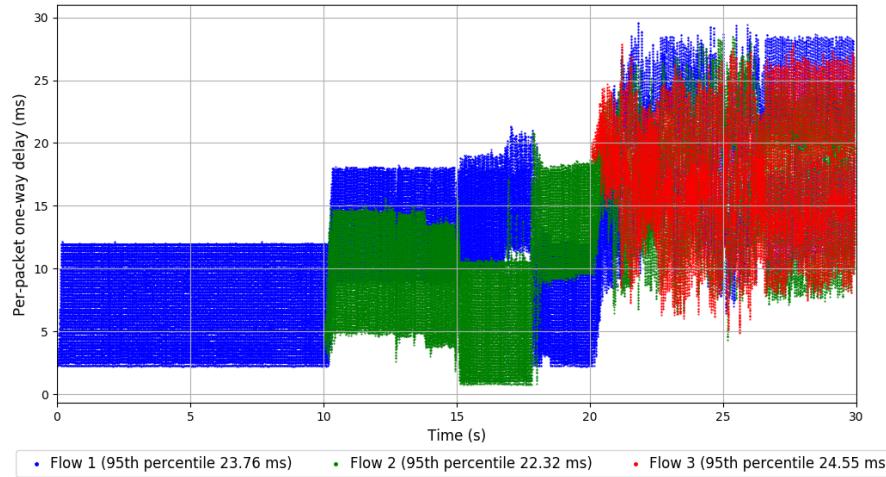
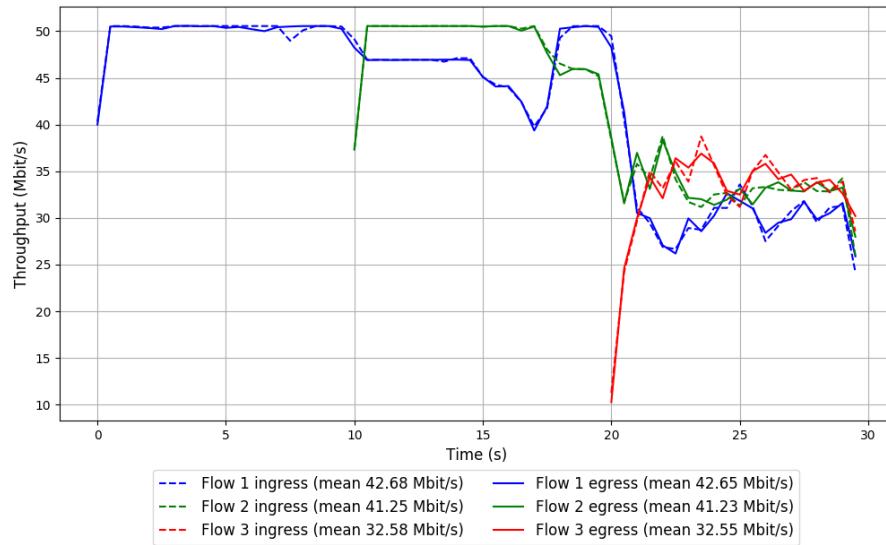


Run 10: Statistics of Sprout

```
Start at: 2018-04-24 23:17:37
End at: 2018-04-24 23:18:07
Local clock offset: -4.746 ms
Remote clock offset: -6.665 ms

# Below is generated by plot.py at 2018-04-24 23:58:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.82 Mbit/s
95th percentile per-packet one-way delay: 23.499 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.65 Mbit/s
95th percentile per-packet one-way delay: 23.756 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.23 Mbit/s
95th percentile per-packet one-way delay: 22.321 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 32.55 Mbit/s
95th percentile per-packet one-way delay: 24.551 ms
Loss rate: 0.00%
```

Run 10: Report of Sprout — Data Link

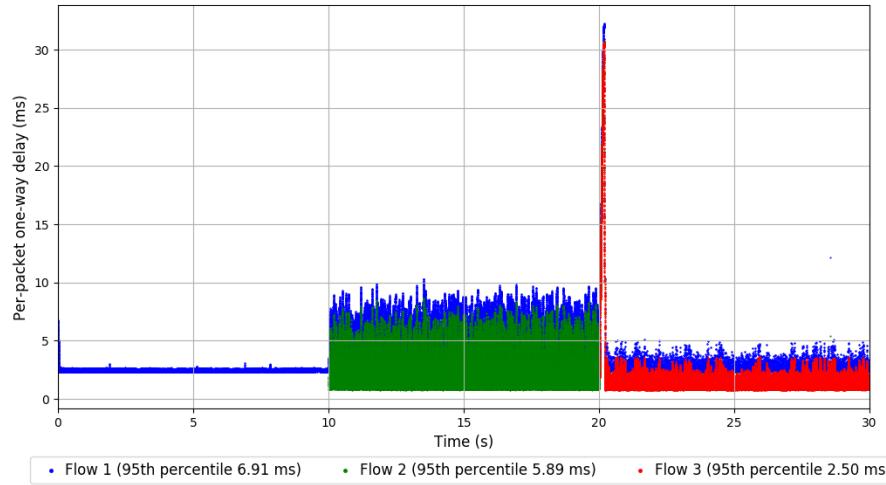
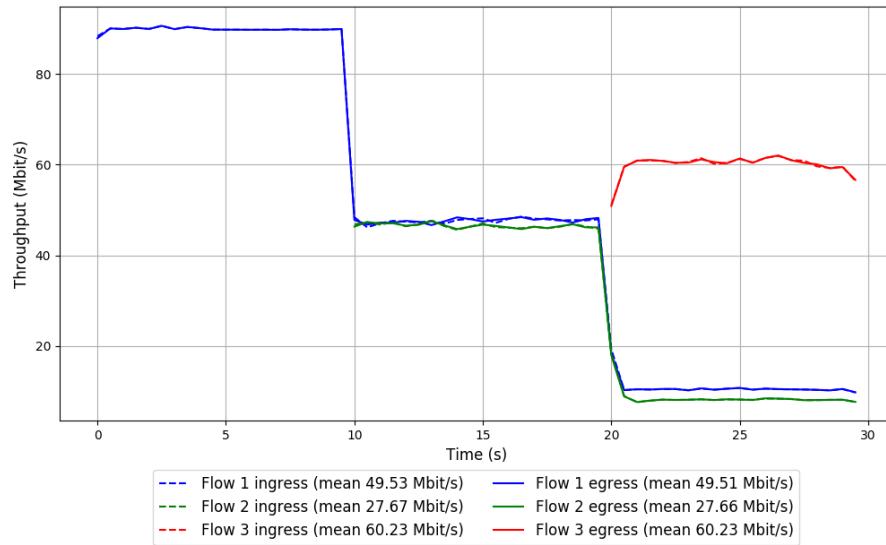


Run 1: Statistics of TaoVA-100x

```
Start at: 2018-04-24 20:11:18
End at: 2018-04-24 20:11:48
Local clock offset: -4.97 ms
Remote clock offset: -7.382 ms

# Below is generated by plot.py at 2018-04-24 23:59:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.93 Mbit/s
95th percentile per-packet one-way delay: 6.365 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 49.51 Mbit/s
95th percentile per-packet one-way delay: 6.907 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 27.66 Mbit/s
95th percentile per-packet one-way delay: 5.893 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 60.23 Mbit/s
95th percentile per-packet one-way delay: 2.501 ms
Loss rate: 0.00%
```

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

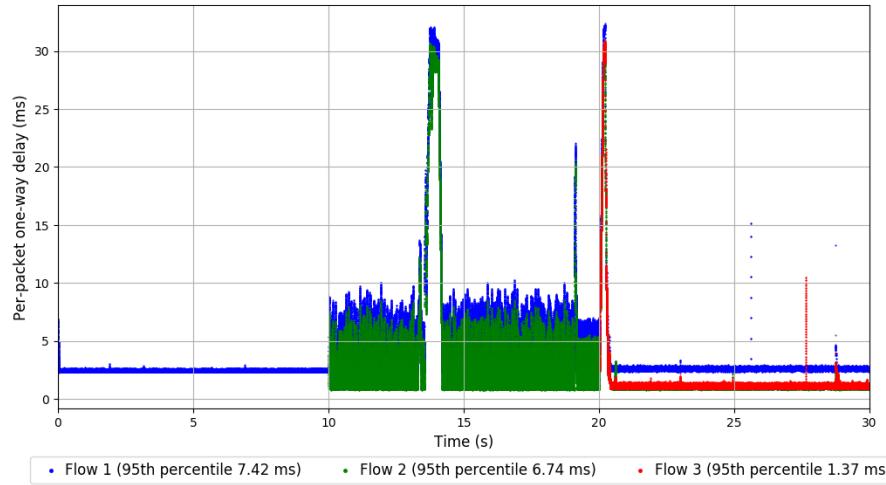
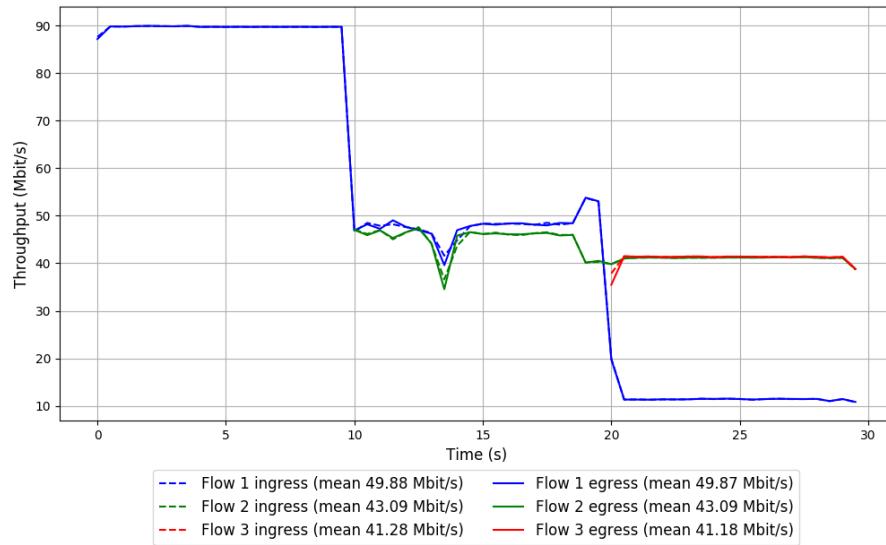


Run 2: Statistics of TaoVA-100x

```
Start at: 2018-04-24 20:30:30
End at: 2018-04-24 20:31:00
Local clock offset: -5.039 ms
Remote clock offset: -7.848 ms

# Below is generated by plot.py at 2018-04-24 23:59:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.23 Mbit/s
95th percentile per-packet one-way delay: 7.047 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 49.87 Mbit/s
95th percentile per-packet one-way delay: 7.417 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 43.09 Mbit/s
95th percentile per-packet one-way delay: 6.738 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 41.18 Mbit/s
95th percentile per-packet one-way delay: 1.374 ms
Loss rate: 0.28%
```

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

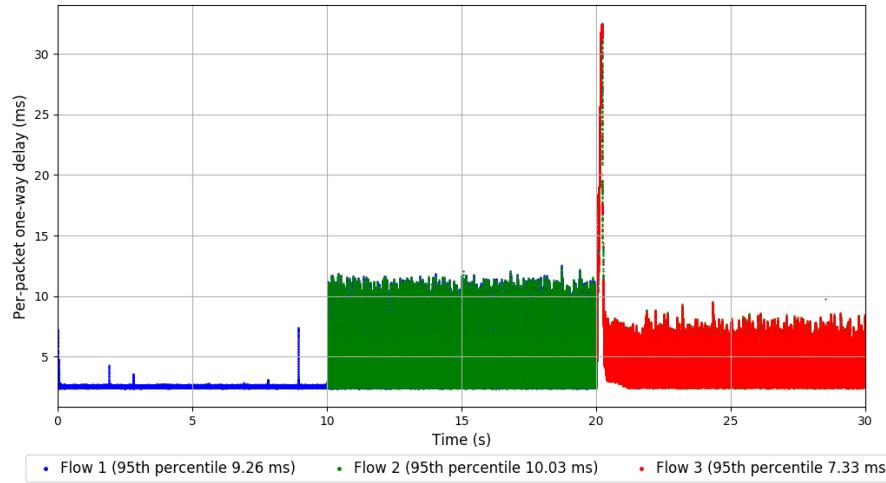
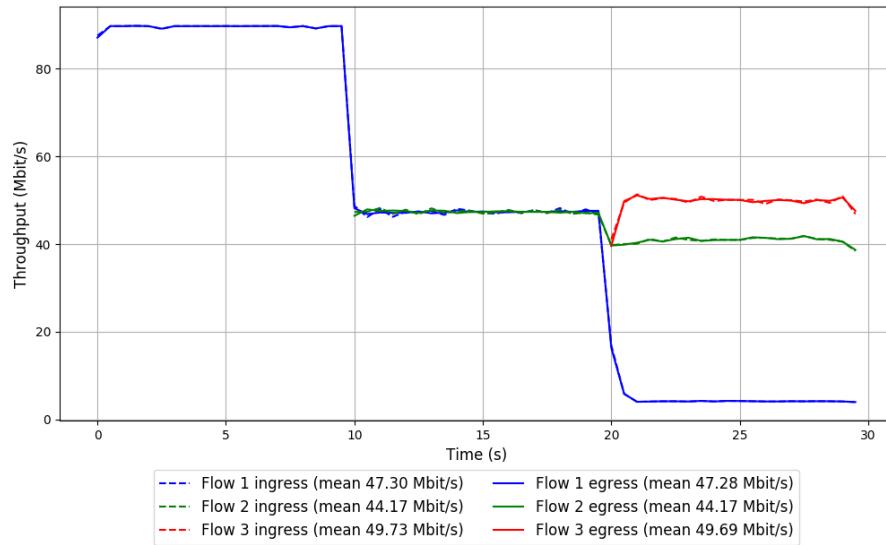


Run 3: Statistics of TaoVA-100x

```
Start at: 2018-04-24 20:49:43
End at: 2018-04-24 20:50:13
Local clock offset: -5.029 ms
Remote clock offset: -8.25 ms

# Below is generated by plot.py at 2018-04-24 23:59:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.18 Mbit/s
95th percentile per-packet one-way delay: 9.385 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 47.28 Mbit/s
95th percentile per-packet one-way delay: 9.263 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 44.17 Mbit/s
95th percentile per-packet one-way delay: 10.025 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 49.69 Mbit/s
95th percentile per-packet one-way delay: 7.328 ms
Loss rate: 0.08%
```

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

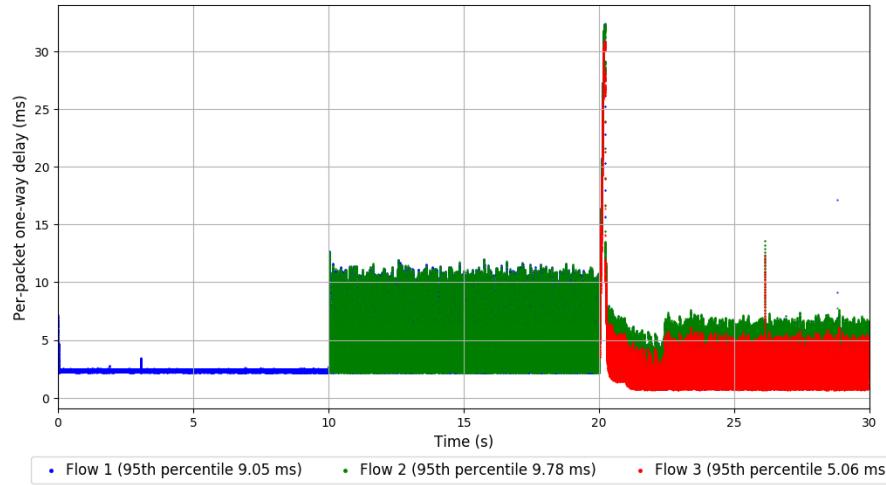
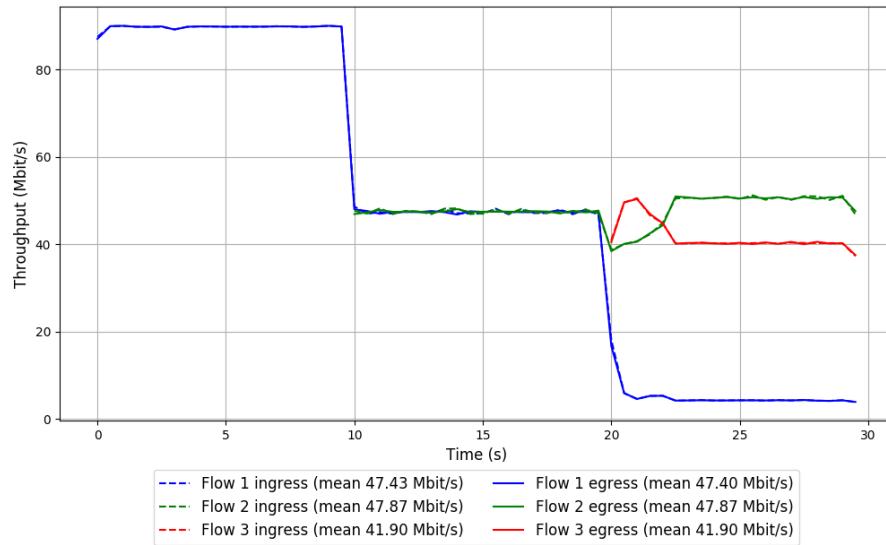


Run 4: Statistics of TaoVA-100x

```
Start at: 2018-04-24 21:08:55
End at: 2018-04-24 21:09:25
Local clock offset: -4.893 ms
Remote clock offset: -5.687 ms

# Below is generated by plot.py at 2018-04-24 23:59:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.16 Mbit/s
95th percentile per-packet one-way delay: 9.225 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 47.40 Mbit/s
95th percentile per-packet one-way delay: 9.054 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 47.87 Mbit/s
95th percentile per-packet one-way delay: 9.778 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 41.90 Mbit/s
95th percentile per-packet one-way delay: 5.057 ms
Loss rate: 0.02%
```

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

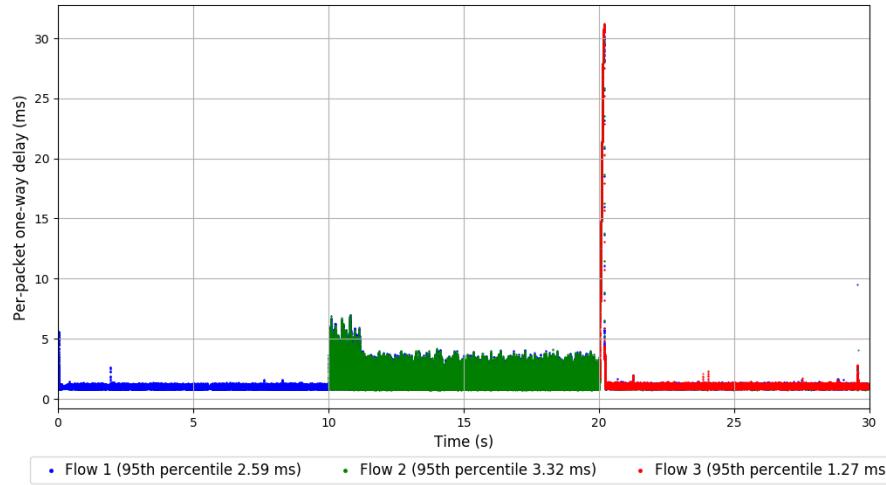
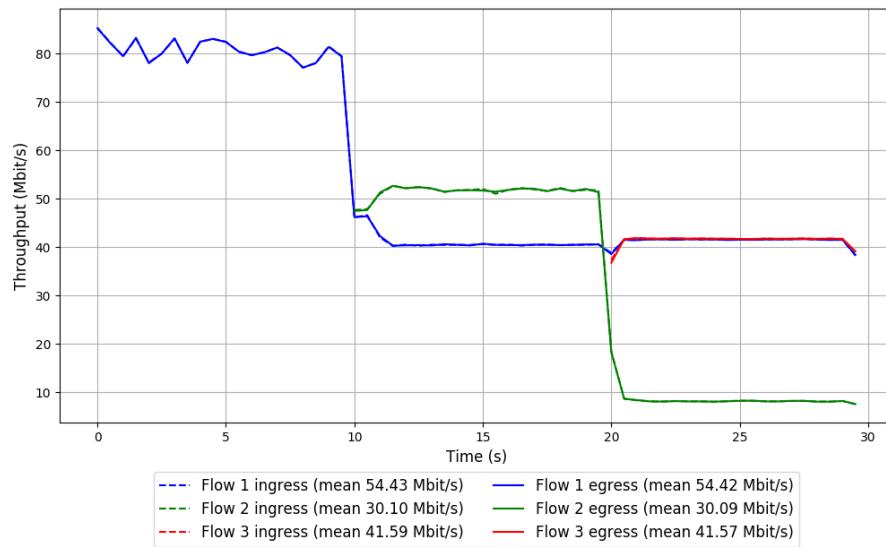


Run 5: Statistics of TaoVA-100x

```
Start at: 2018-04-24 21:28:07
End at: 2018-04-24 21:28:37
Local clock offset: -4.912 ms
Remote clock offset: -4.848 ms

# Below is generated by plot.py at 2018-04-25 00:00:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.26 Mbit/s
95th percentile per-packet one-way delay: 2.845 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 54.42 Mbit/s
95th percentile per-packet one-way delay: 2.593 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 30.09 Mbit/s
95th percentile per-packet one-way delay: 3.324 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 41.57 Mbit/s
95th percentile per-packet one-way delay: 1.270 ms
Loss rate: 0.06%
```

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

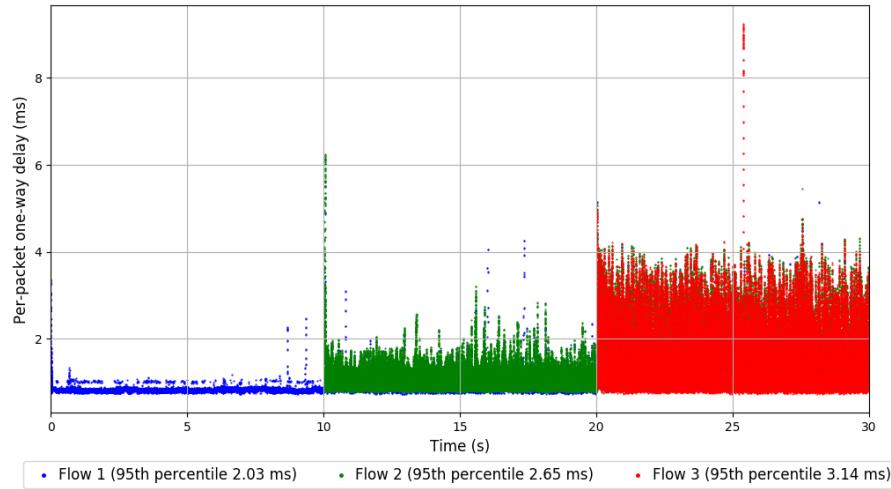
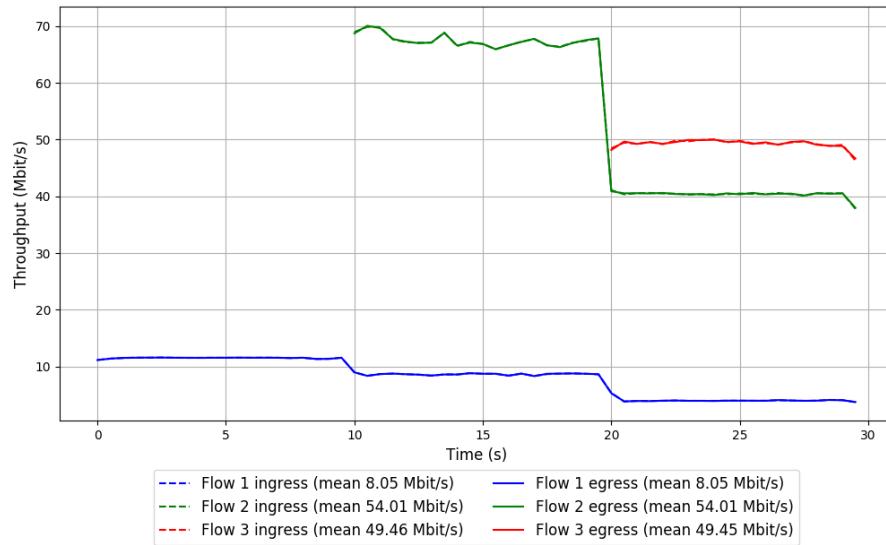


Run 6: Statistics of TaoVA-100x

```
Start at: 2018-04-24 21:47:17
End at: 2018-04-24 21:47:47
Local clock offset: -5.06 ms
Remote clock offset: -4.635 ms

# Below is generated by plot.py at 2018-04-25 00:00:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.45 Mbit/s
95th percentile per-packet one-way delay: 2.834 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.05 Mbit/s
95th percentile per-packet one-way delay: 2.033 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 54.01 Mbit/s
95th percentile per-packet one-way delay: 2.651 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 49.45 Mbit/s
95th percentile per-packet one-way delay: 3.140 ms
Loss rate: 0.00%
```

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

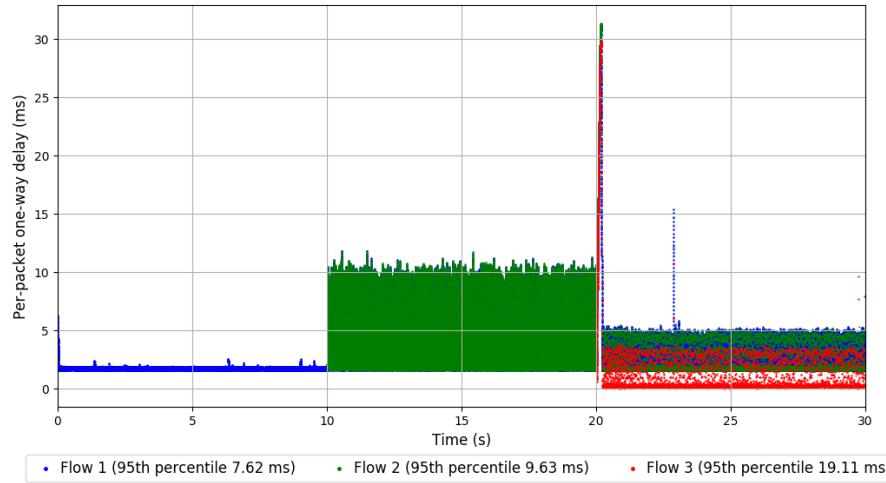
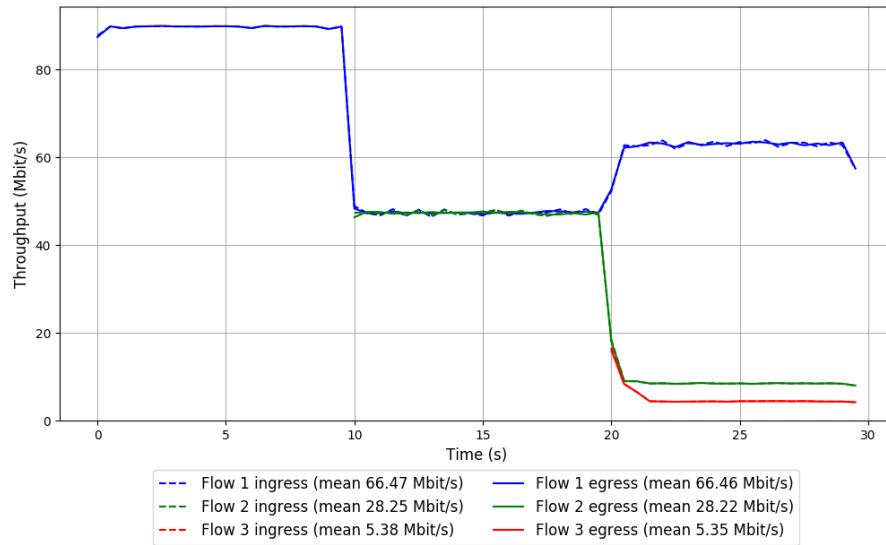


Run 7: Statistics of TaoVA-100x

```
Start at: 2018-04-24 22:06:27
End at: 2018-04-24 22:06:57
Local clock offset: -4.511 ms
Remote clock offset: -4.3 ms

# Below is generated by plot.py at 2018-04-25 00:00:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.02 Mbit/s
95th percentile per-packet one-way delay: 8.664 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 66.46 Mbit/s
95th percentile per-packet one-way delay: 7.622 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 28.22 Mbit/s
95th percentile per-packet one-way delay: 9.631 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 5.35 Mbit/s
95th percentile per-packet one-way delay: 19.106 ms
Loss rate: 0.57%
```

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

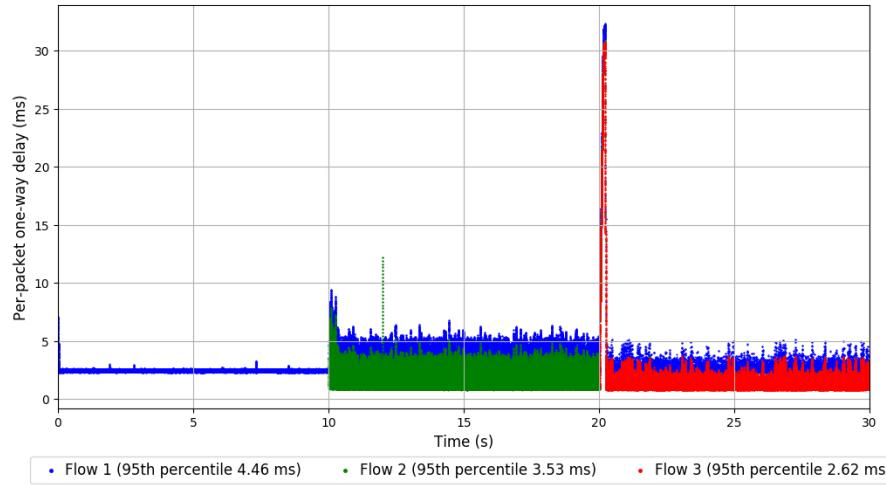
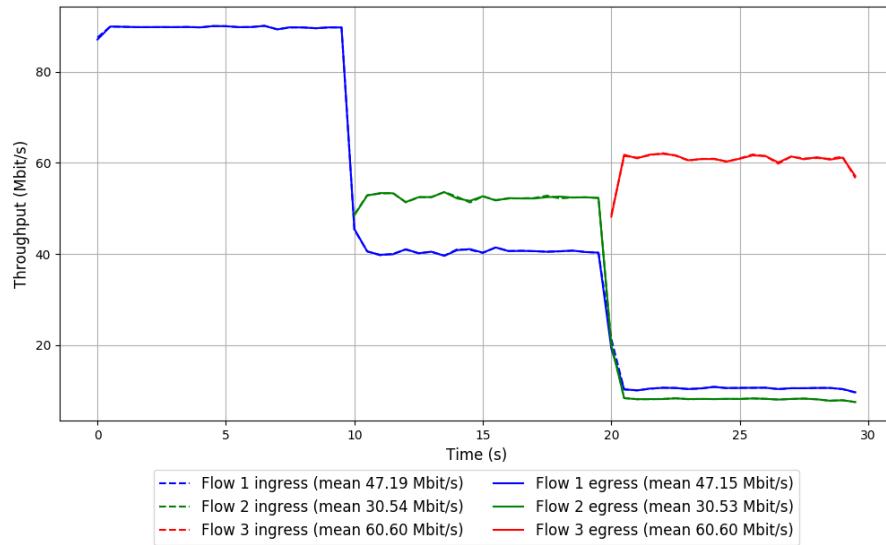


Run 8: Statistics of TaoVA-100x

```
Start at: 2018-04-24 22:25:39
End at: 2018-04-24 22:26:09
Local clock offset: -5.287 ms
Remote clock offset: -3.928 ms

# Below is generated by plot.py at 2018-04-25 00:00:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.59 Mbit/s
95th percentile per-packet one-way delay: 4.006 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 47.15 Mbit/s
95th percentile per-packet one-way delay: 4.455 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 30.53 Mbit/s
95th percentile per-packet one-way delay: 3.532 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 60.60 Mbit/s
95th percentile per-packet one-way delay: 2.624 ms
Loss rate: 0.00%
```

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

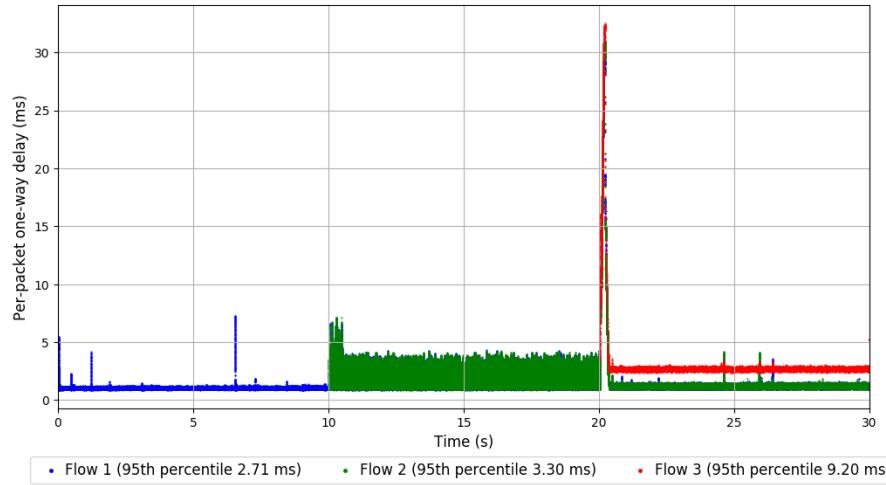
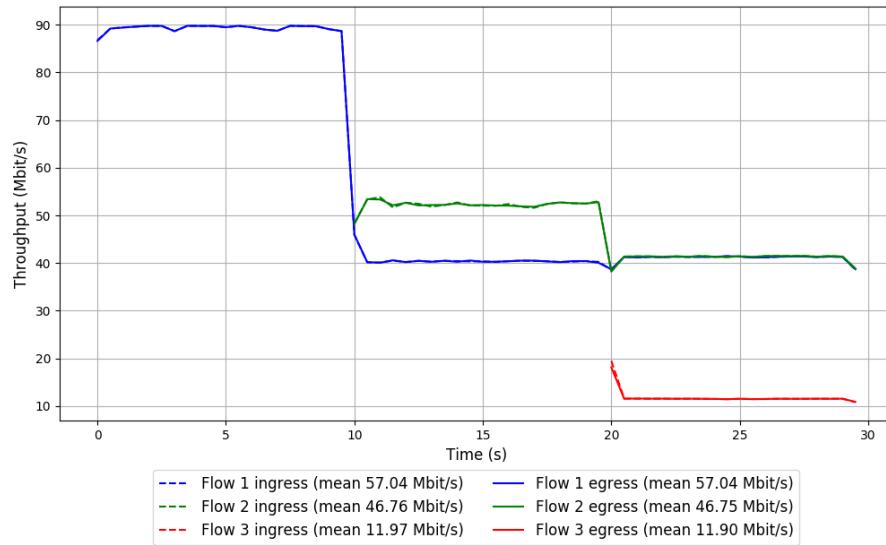


Run 9: Statistics of TaoVA-100x

```
Start at: 2018-04-24 22:44:50
End at: 2018-04-24 22:45:20
Local clock offset: -5.327 ms
Remote clock offset: -5.451 ms

# Below is generated by plot.py at 2018-04-25 00:02:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.11 Mbit/s
95th percentile per-packet one-way delay: 3.022 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 57.04 Mbit/s
95th percentile per-packet one-way delay: 2.707 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.75 Mbit/s
95th percentile per-packet one-way delay: 3.300 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 11.90 Mbit/s
95th percentile per-packet one-way delay: 9.199 ms
Loss rate: 0.55%
```

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

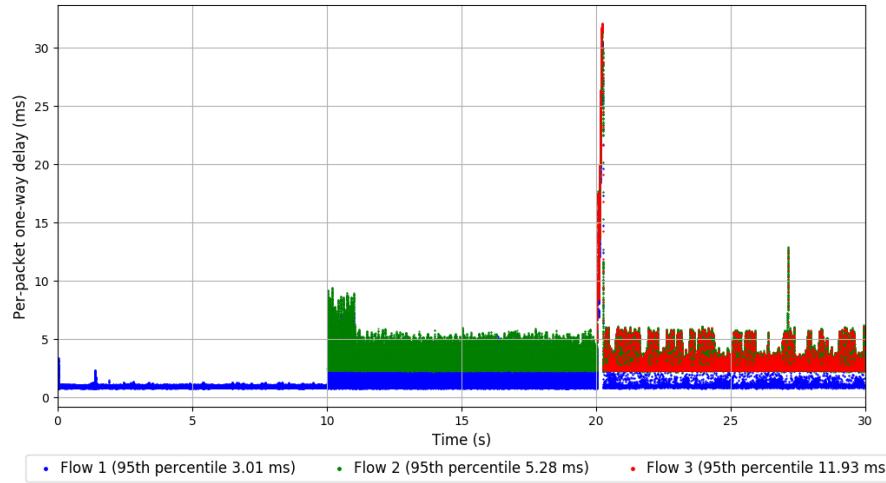
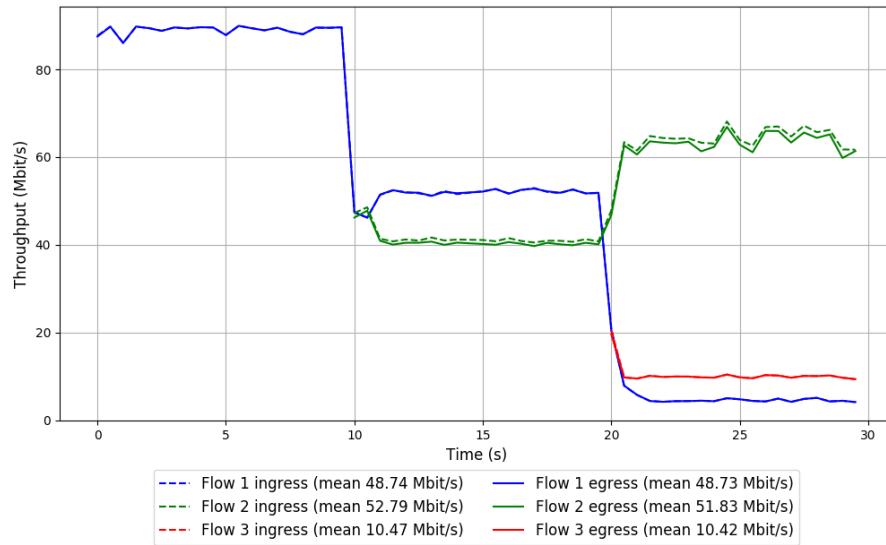


Run 10: Statistics of TaoVA-100x

```
Start at: 2018-04-24 23:04:01
End at: 2018-04-24 23:04:31
Local clock offset: -4.94 ms
Remote clock offset: -6.628 ms

# Below is generated by plot.py at 2018-04-25 00:02:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.68 Mbit/s
95th percentile per-packet one-way delay: 4.774 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 48.73 Mbit/s
95th percentile per-packet one-way delay: 3.012 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 51.83 Mbit/s
95th percentile per-packet one-way delay: 5.278 ms
Loss rate: 1.81%
-- Flow 3:
Average throughput: 10.42 Mbit/s
95th percentile per-packet one-way delay: 11.929 ms
Loss rate: 0.44%
```

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

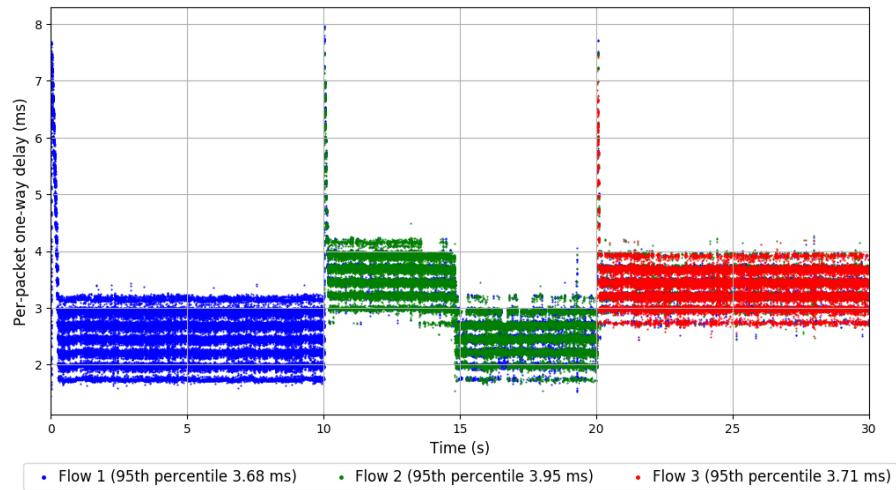
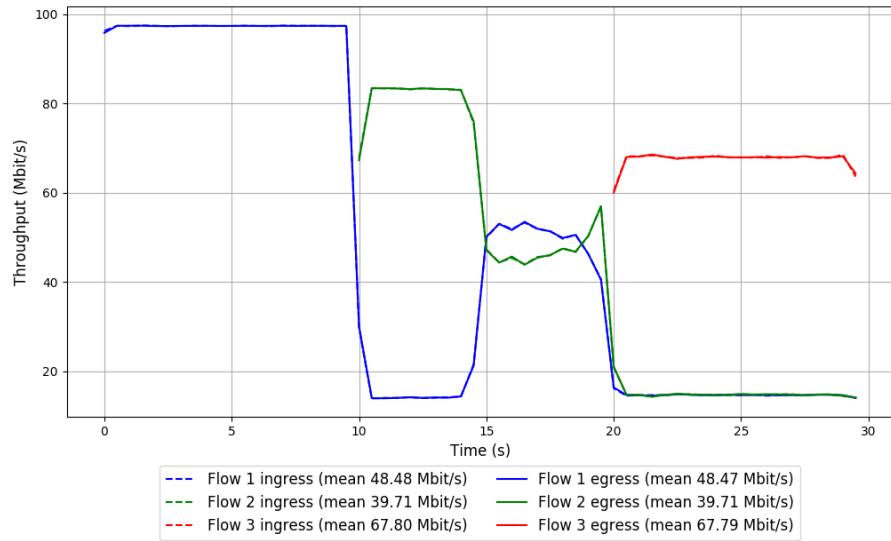


Run 1: Statistics of TCP Vegas

```
Start at: 2018-04-24 20:14:45
End at: 2018-04-24 20:15:15
Local clock offset: -4.203 ms
Remote clock offset: -7.472 ms

# Below is generated by plot.py at 2018-04-25 00:02:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.42 Mbit/s
95th percentile per-packet one-way delay: 3.886 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.47 Mbit/s
95th percentile per-packet one-way delay: 3.683 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.71 Mbit/s
95th percentile per-packet one-way delay: 3.948 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 67.79 Mbit/s
95th percentile per-packet one-way delay: 3.715 ms
Loss rate: 0.00%
```

Run 1: Report of TCP Vegas — Data Link

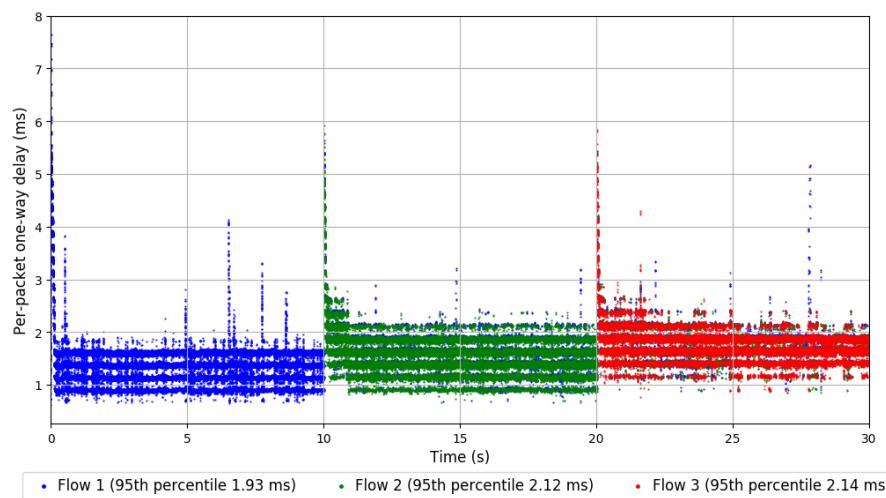
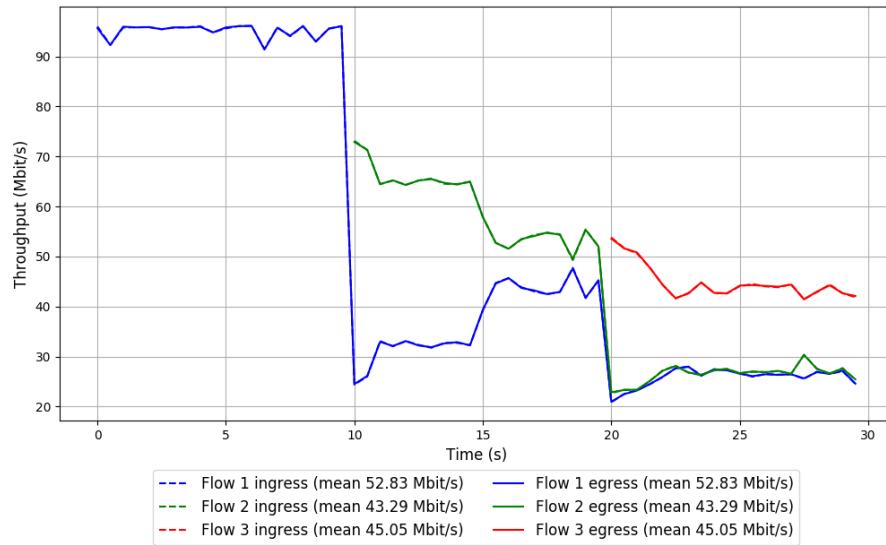


Run 2: Statistics of TCP Vegas

```
Start at: 2018-04-24 20:33:57
End at: 2018-04-24 20:34:27
Local clock offset: -4.949 ms
Remote clock offset: -7.989 ms

# Below is generated by plot.py at 2018-04-25 00:02:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.62 Mbit/s
95th percentile per-packet one-way delay: 2.109 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 52.83 Mbit/s
95th percentile per-packet one-way delay: 1.926 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 43.29 Mbit/s
95th percentile per-packet one-way delay: 2.122 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 45.05 Mbit/s
95th percentile per-packet one-way delay: 2.141 ms
Loss rate: 0.00%
```

Run 2: Report of TCP Vegas — Data Link

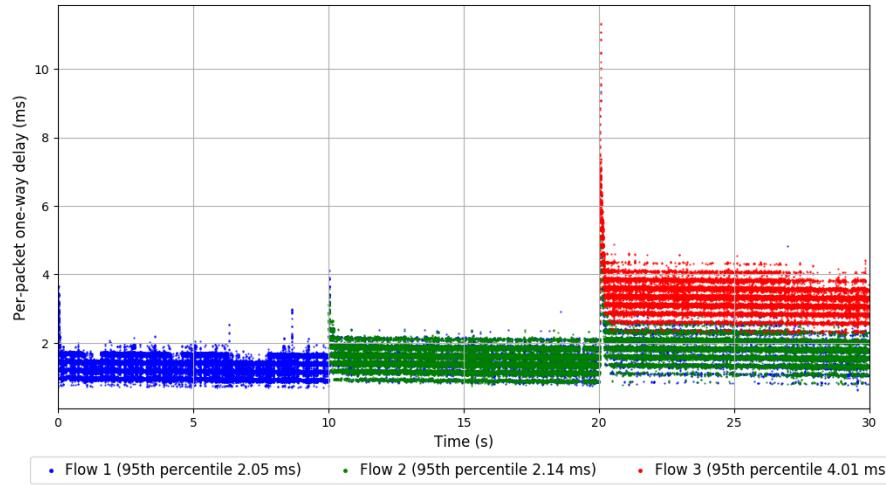
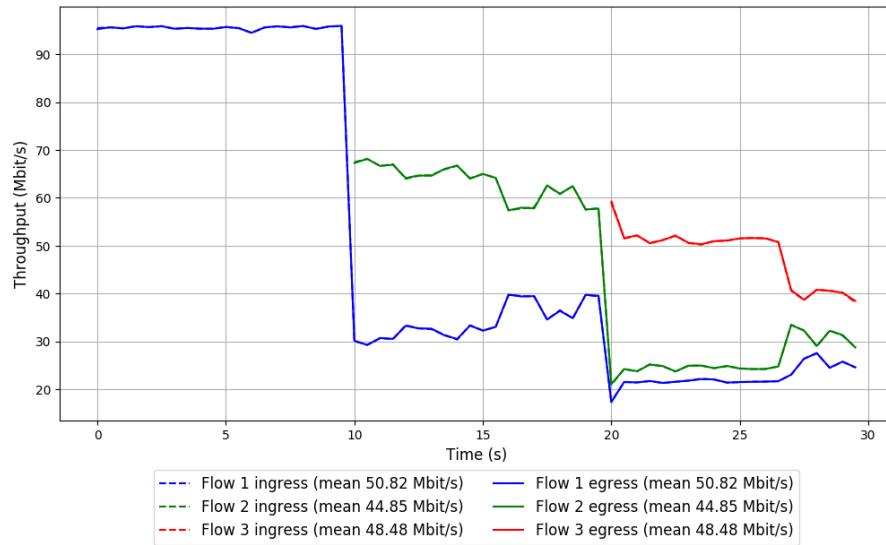


Run 3: Statistics of TCP Vegas

```
Start at: 2018-04-24 20:53:10
End at: 2018-04-24 20:53:40
Local clock offset: -5.04 ms
Remote clock offset: -8.31 ms

# Below is generated by plot.py at 2018-04-25 00:02:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.78 Mbit/s
95th percentile per-packet one-way delay: 3.552 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.82 Mbit/s
95th percentile per-packet one-way delay: 2.050 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 44.85 Mbit/s
95th percentile per-packet one-way delay: 2.140 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 48.48 Mbit/s
95th percentile per-packet one-way delay: 4.014 ms
Loss rate: 0.00%
```

Run 3: Report of TCP Vegas — Data Link

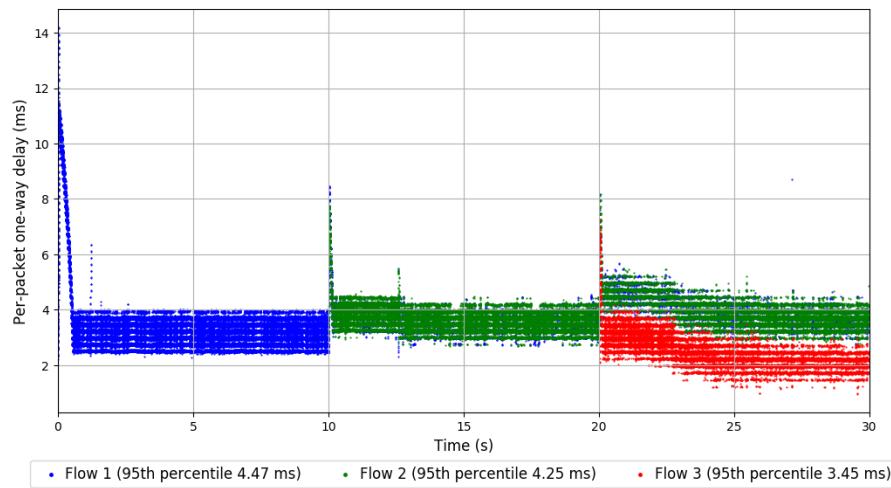
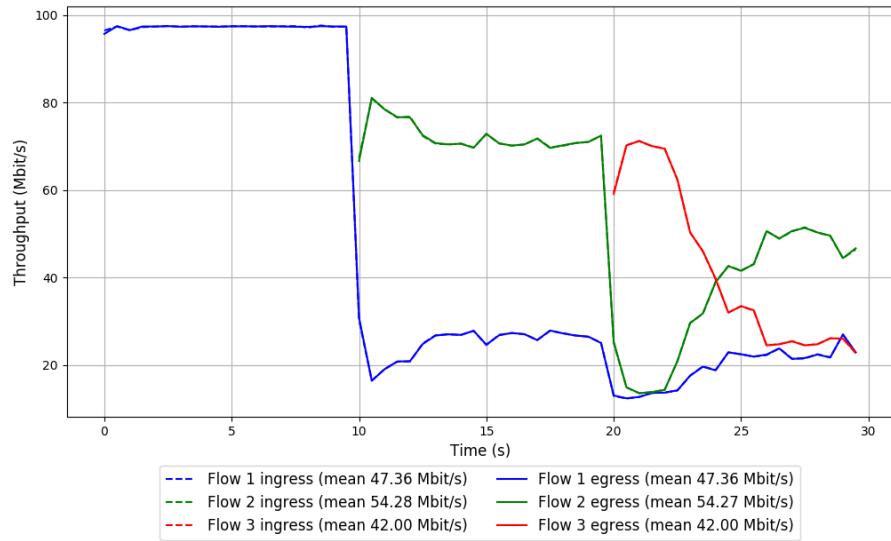


Run 4: Statistics of TCP Vegas

```
Start at: 2018-04-24 21:12:22
End at: 2018-04-24 21:12:52
Local clock offset: -4.879 ms
Remote clock offset: -5.371 ms

# Below is generated by plot.py at 2018-04-25 00:02:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.44 Mbit/s
95th percentile per-packet one-way delay: 4.238 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.36 Mbit/s
95th percentile per-packet one-way delay: 4.466 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 54.27 Mbit/s
95th percentile per-packet one-way delay: 4.248 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 42.00 Mbit/s
95th percentile per-packet one-way delay: 3.446 ms
Loss rate: 0.00%
```

Run 4: Report of TCP Vegas — Data Link

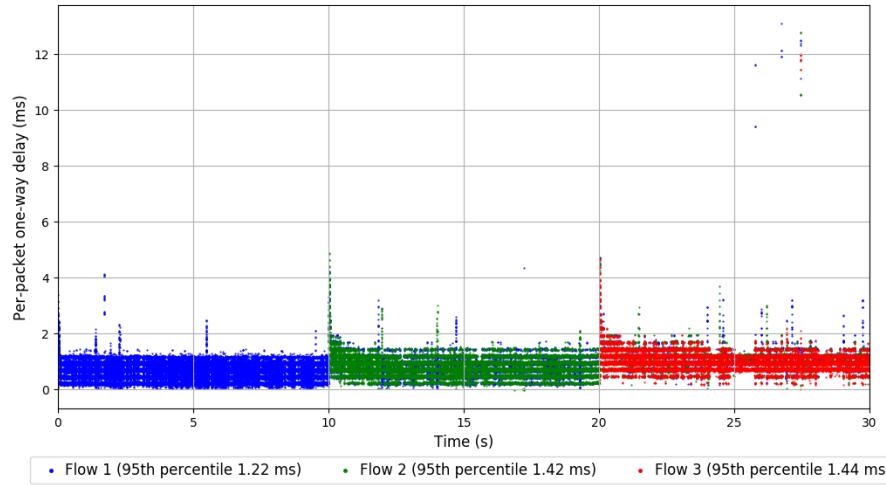
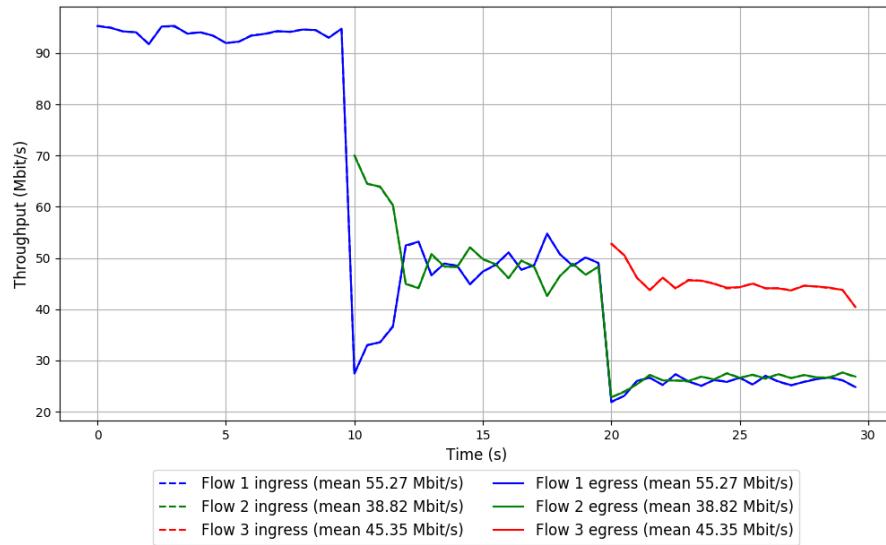


Run 5: Statistics of TCP Vegas

```
Start at: 2018-04-24 21:31:34
End at: 2018-04-24 21:32:04
Local clock offset: -4.072 ms
Remote clock offset: -4.802 ms

# Below is generated by plot.py at 2018-04-25 00:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.17 Mbit/s
95th percentile per-packet one-way delay: 1.349 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.27 Mbit/s
95th percentile per-packet one-way delay: 1.217 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.82 Mbit/s
95th percentile per-packet one-way delay: 1.420 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 45.35 Mbit/s
95th percentile per-packet one-way delay: 1.442 ms
Loss rate: 0.00%
```

Run 5: Report of TCP Vegas — Data Link

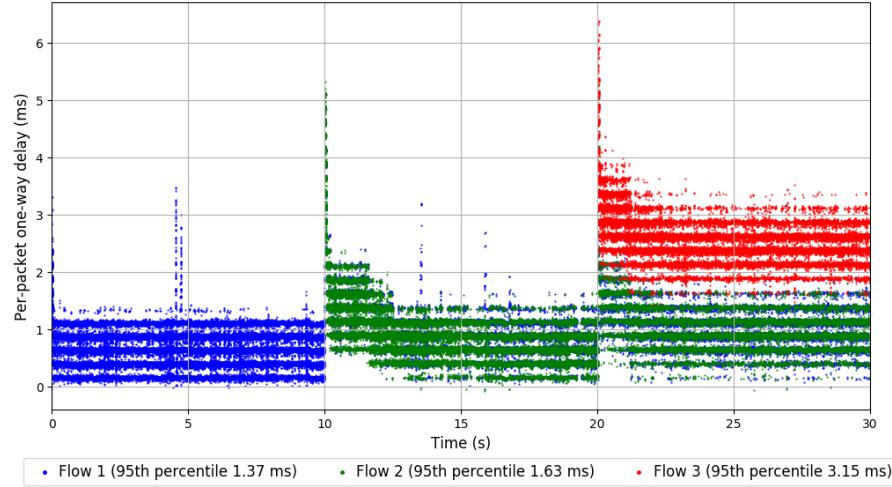
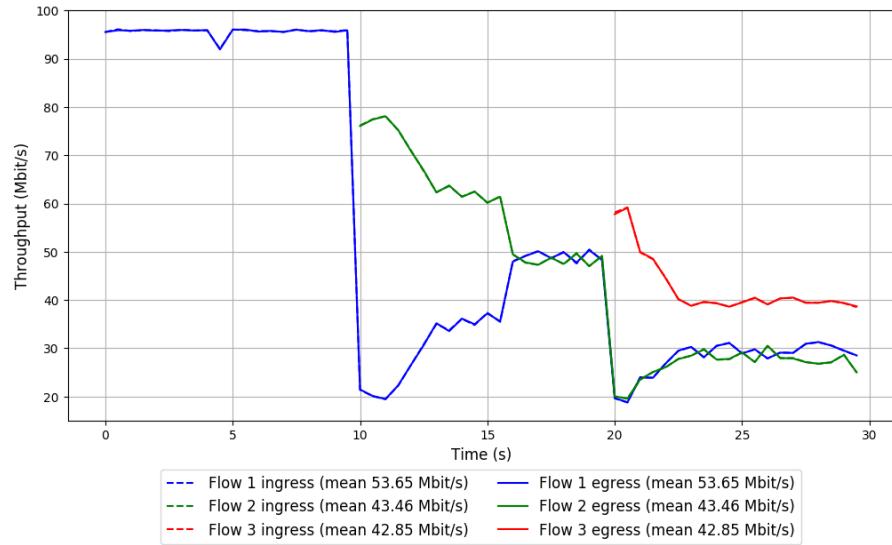


Run 6: Statistics of TCP Vegas

```
Start at: 2018-04-24 21:50:42
End at: 2018-04-24 21:51:12
Local clock offset: -4.363 ms
Remote clock offset: -4.639 ms

# Below is generated by plot.py at 2018-04-25 00:02:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.83 Mbit/s
95th percentile per-packet one-way delay: 2.641 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 53.65 Mbit/s
95th percentile per-packet one-way delay: 1.371 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 43.46 Mbit/s
95th percentile per-packet one-way delay: 1.634 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 42.85 Mbit/s
95th percentile per-packet one-way delay: 3.147 ms
Loss rate: 0.01%
```

Run 6: Report of TCP Vegas — Data Link

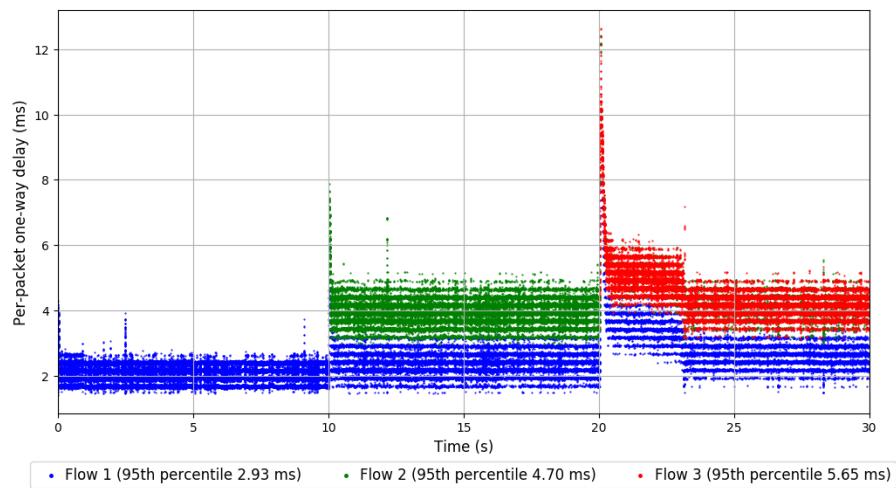
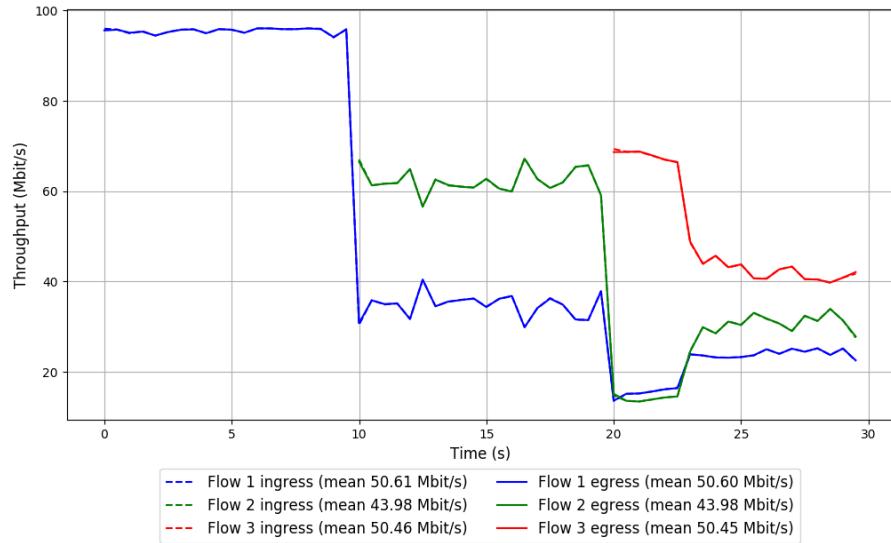


Run 7: Statistics of TCP Vegas

```
Start at: 2018-04-24 22:09:54
End at: 2018-04-24 22:10:24
Local clock offset: -6.058 ms
Remote clock offset: -4.307 ms

# Below is generated by plot.py at 2018-04-25 00:02:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.63 Mbit/s
95th percentile per-packet one-way delay: 4.944 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.60 Mbit/s
95th percentile per-packet one-way delay: 2.931 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 43.98 Mbit/s
95th percentile per-packet one-way delay: 4.699 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 50.45 Mbit/s
95th percentile per-packet one-way delay: 5.654 ms
Loss rate: 0.01%
```

Run 7: Report of TCP Vegas — Data Link

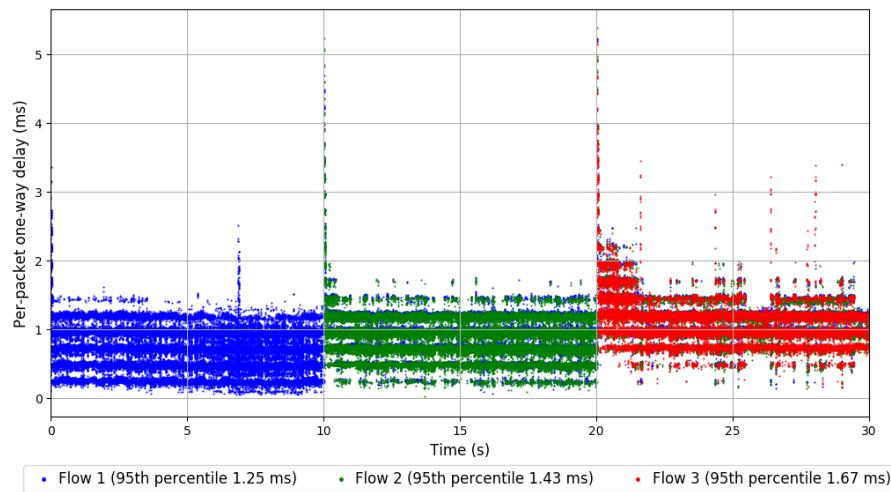
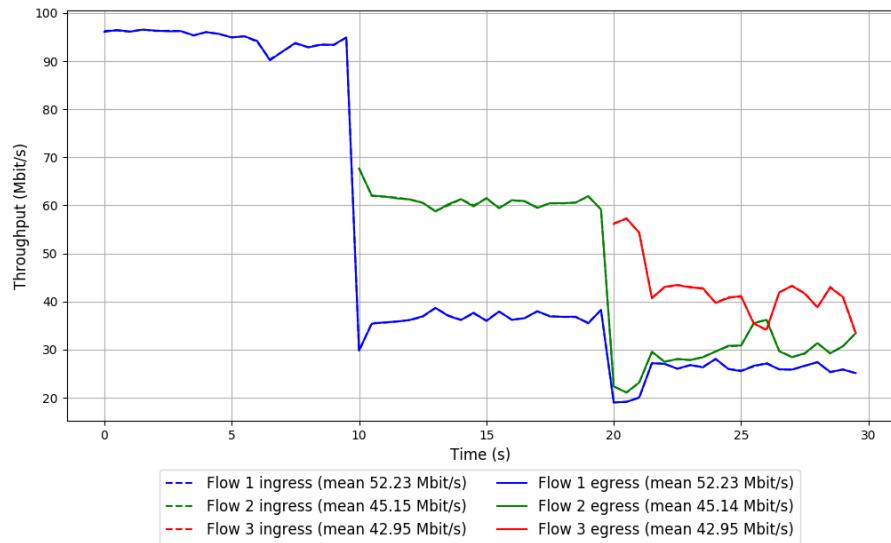


Run 8: Statistics of TCP Vegas

```
Start at: 2018-04-24 22:29:05
End at: 2018-04-24 22:29:35
Local clock offset: -4.536 ms
Remote clock offset: -3.847 ms

# Below is generated by plot.py at 2018-04-25 00:02:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.55 Mbit/s
95th percentile per-packet one-way delay: 1.435 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 52.23 Mbit/s
95th percentile per-packet one-way delay: 1.247 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 45.14 Mbit/s
95th percentile per-packet one-way delay: 1.431 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 42.95 Mbit/s
95th percentile per-packet one-way delay: 1.668 ms
Loss rate: 0.00%
```

Run 8: Report of TCP Vegas — Data Link

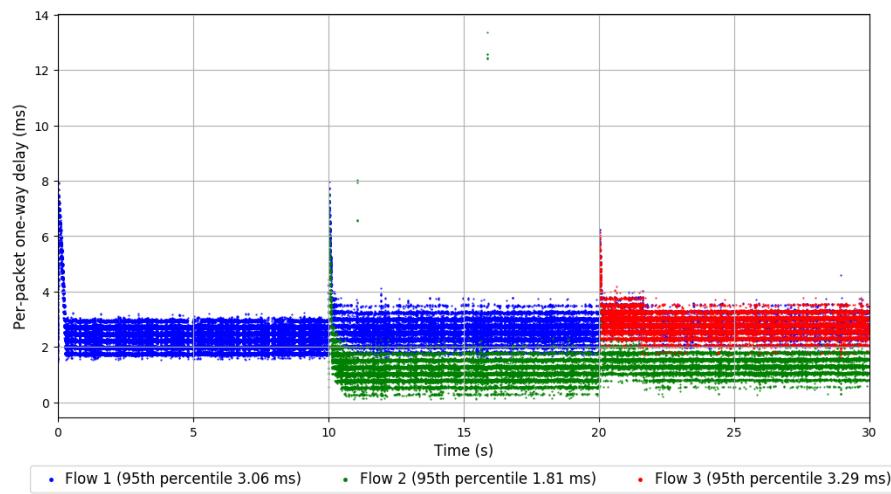
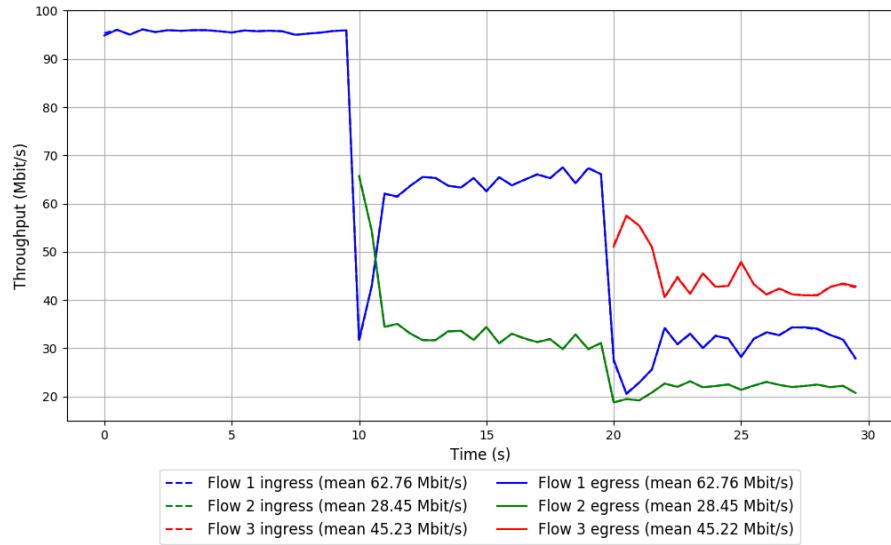


Run 9: Statistics of TCP Vegas

```
Start at: 2018-04-24 22:48:17
End at: 2018-04-24 22:48:47
Local clock offset: -4.46 ms
Remote clock offset: -5.805 ms

# Below is generated by plot.py at 2018-04-25 00:03:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.72 Mbit/s
95th percentile per-packet one-way delay: 3.100 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 62.76 Mbit/s
95th percentile per-packet one-way delay: 3.065 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 28.45 Mbit/s
95th percentile per-packet one-way delay: 1.807 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 45.22 Mbit/s
95th percentile per-packet one-way delay: 3.292 ms
Loss rate: 0.00%
```

Run 9: Report of TCP Vegas — Data Link

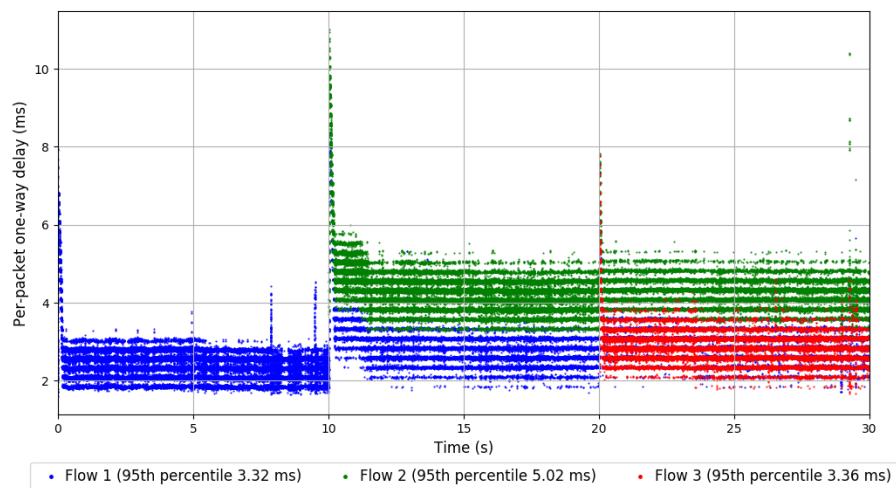
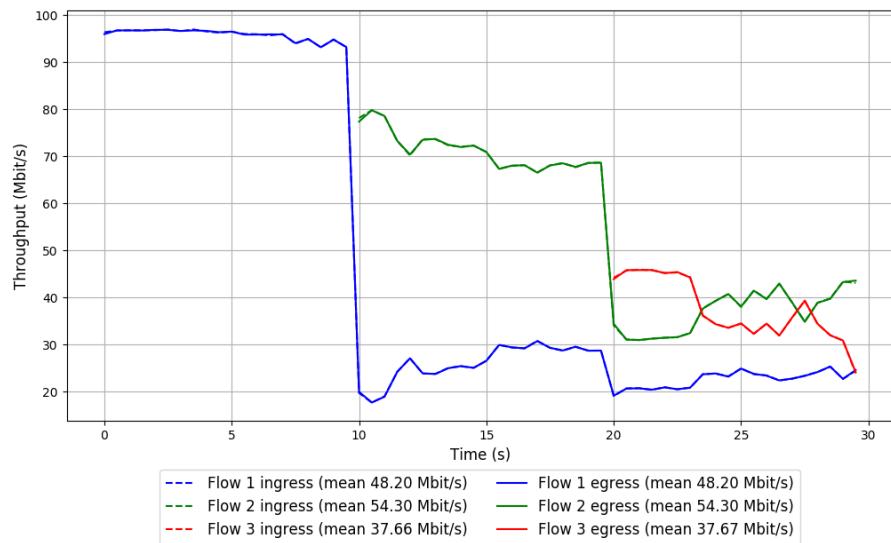


Run 10: Statistics of TCP Vegas

```
Start at: 2018-04-24 23:07:29
End at: 2018-04-24 23:07:59
Local clock offset: -5.65 ms
Remote clock offset: -6.634 ms

# Below is generated by plot.py at 2018-04-25 00:03:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.87 Mbit/s
95th percentile per-packet one-way delay: 4.769 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.20 Mbit/s
95th percentile per-packet one-way delay: 3.316 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 54.30 Mbit/s
95th percentile per-packet one-way delay: 5.022 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 37.67 Mbit/s
95th percentile per-packet one-way delay: 3.360 ms
Loss rate: 0.00%
```

Run 10: Report of TCP Vegas — Data Link

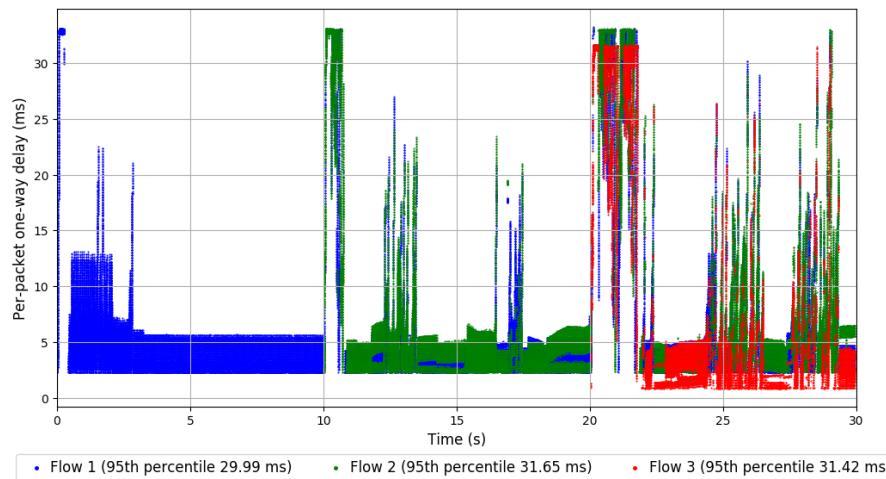
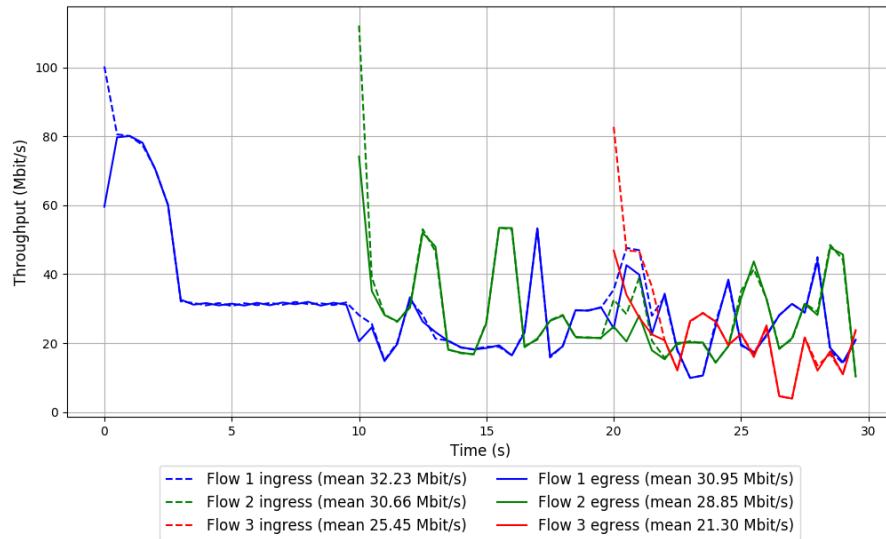


Run 1: Statistics of Verus

```
Start at: 2018-04-24 20:13:38
End at: 2018-04-24 20:14:08
Local clock offset: -4.972 ms
Remote clock offset: -7.431 ms

# Below is generated by plot.py at 2018-04-25 00:03:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 57.21 Mbit/s
95th percentile per-packet one-way delay: 31.248 ms
Loss rate: 6.32%
-- Flow 1:
Average throughput: 30.95 Mbit/s
95th percentile per-packet one-way delay: 29.989 ms
Loss rate: 3.98%
-- Flow 2:
Average throughput: 28.85 Mbit/s
95th percentile per-packet one-way delay: 31.654 ms
Loss rate: 5.88%
-- Flow 3:
Average throughput: 21.30 Mbit/s
95th percentile per-packet one-way delay: 31.416 ms
Loss rate: 16.31%
```

Run 1: Report of Verus — Data Link

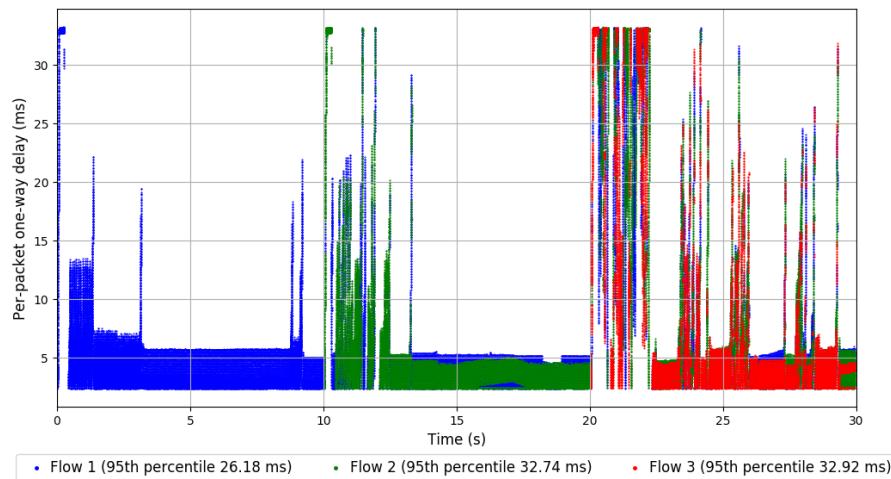
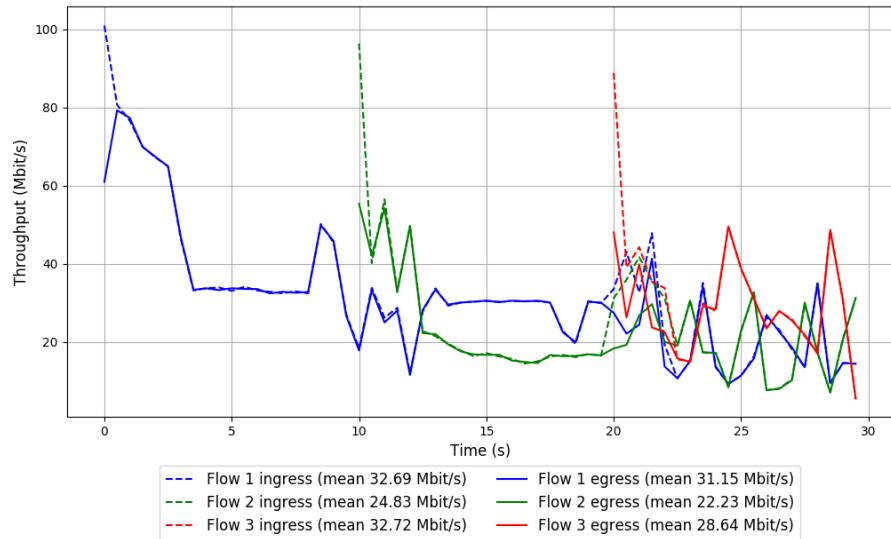


Run 2: Statistics of Verus

```
Start at: 2018-04-24 20:32:50
End at: 2018-04-24 20:33:20
Local clock offset: -5.081 ms
Remote clock offset: -7.903 ms

# Below is generated by plot.py at 2018-04-25 00:03:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 55.43 Mbit/s
95th percentile per-packet one-way delay: 31.740 ms
Loss rate: 7.68%
-- Flow 1:
Average throughput: 31.15 Mbit/s
95th percentile per-packet one-way delay: 26.179 ms
Loss rate: 4.69%
-- Flow 2:
Average throughput: 22.23 Mbit/s
95th percentile per-packet one-way delay: 32.738 ms
Loss rate: 10.46%
-- Flow 3:
Average throughput: 28.64 Mbit/s
95th percentile per-packet one-way delay: 32.922 ms
Loss rate: 12.43%
```

Run 2: Report of Verus — Data Link

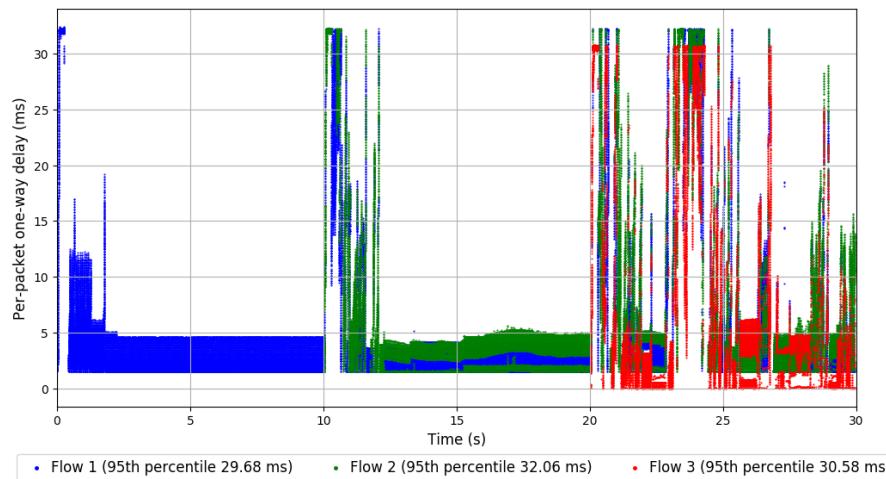
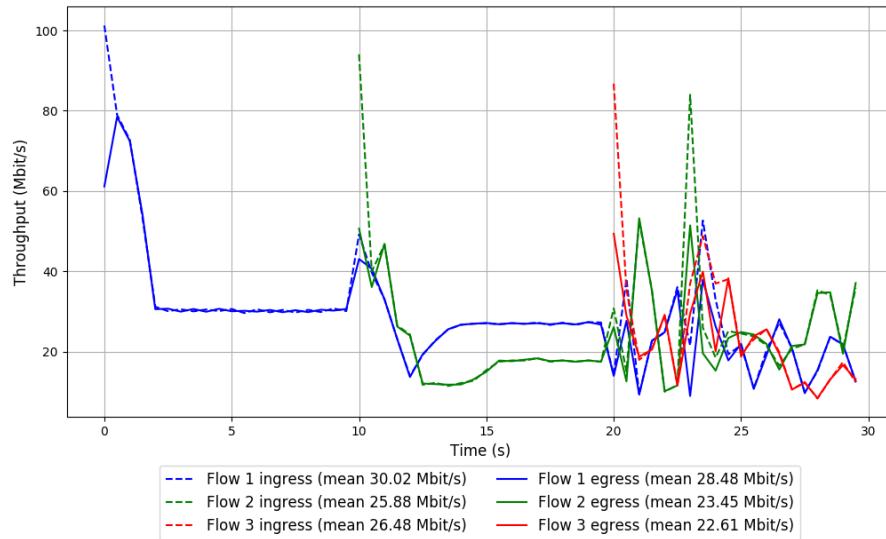


Run 3: Statistics of Verus

```
Start at: 2018-04-24 20:52:03
End at: 2018-04-24 20:52:33
Local clock offset: -4.22 ms
Remote clock offset: -8.344 ms

# Below is generated by plot.py at 2018-04-25 00:03:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 51.57 Mbit/s
95th percentile per-packet one-way delay: 30.649 ms
Loss rate: 7.94%
-- Flow 1:
Average throughput: 28.48 Mbit/s
95th percentile per-packet one-way delay: 29.682 ms
Loss rate: 5.16%
-- Flow 2:
Average throughput: 23.45 Mbit/s
95th percentile per-packet one-way delay: 32.064 ms
Loss rate: 9.39%
-- Flow 3:
Average throughput: 22.61 Mbit/s
95th percentile per-packet one-way delay: 30.584 ms
Loss rate: 14.62%
```

Run 3: Report of Verus — Data Link

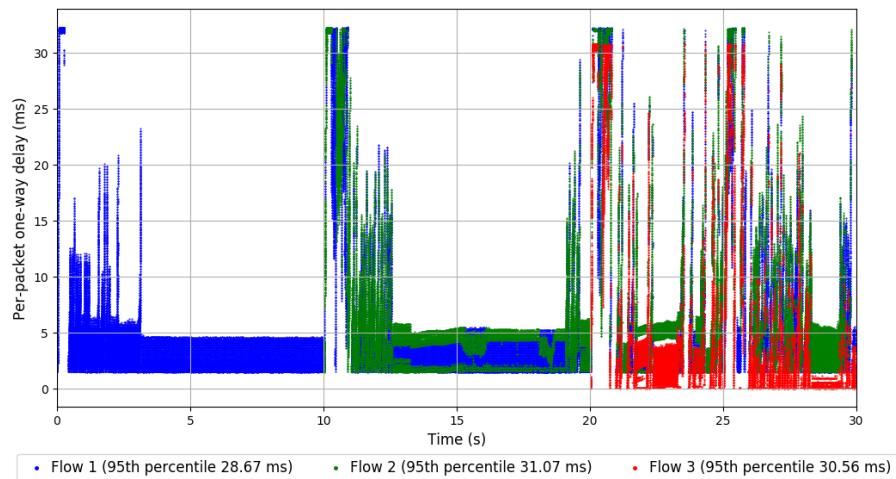
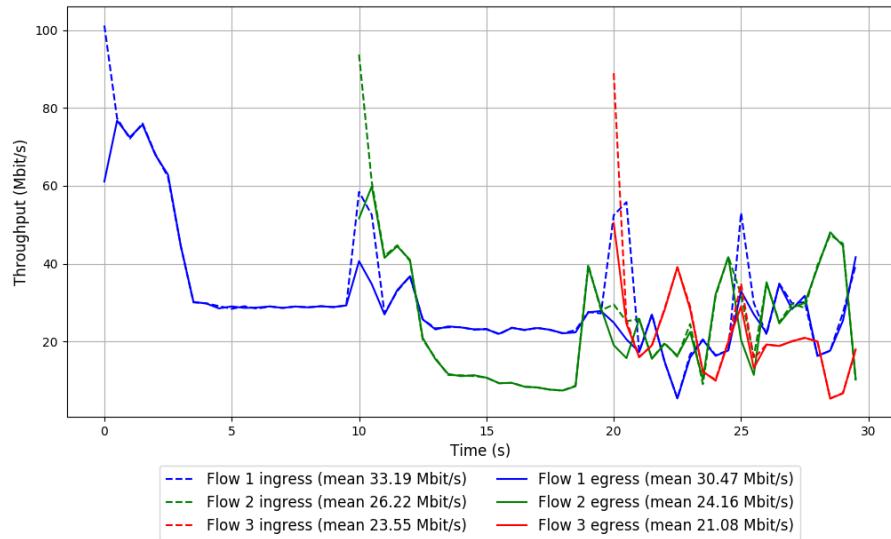


Run 4: Statistics of Verus

```
Start at: 2018-04-24 21:11:15
End at: 2018-04-24 21:11:45
Local clock offset: -4.132 ms
Remote clock offset: -5.451 ms

# Below is generated by plot.py at 2018-04-25 00:03:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 53.42 Mbit/s
95th percentile per-packet one-way delay: 30.285 ms
Loss rate: 8.34%
-- Flow 1:
Average throughput: 30.47 Mbit/s
95th percentile per-packet one-way delay: 28.667 ms
Loss rate: 8.17%
-- Flow 2:
Average throughput: 24.16 Mbit/s
95th percentile per-packet one-way delay: 31.073 ms
Loss rate: 7.71%
-- Flow 3:
Average throughput: 21.08 Mbit/s
95th percentile per-packet one-way delay: 30.563 ms
Loss rate: 10.48%
```

Run 4: Report of Verus — Data Link

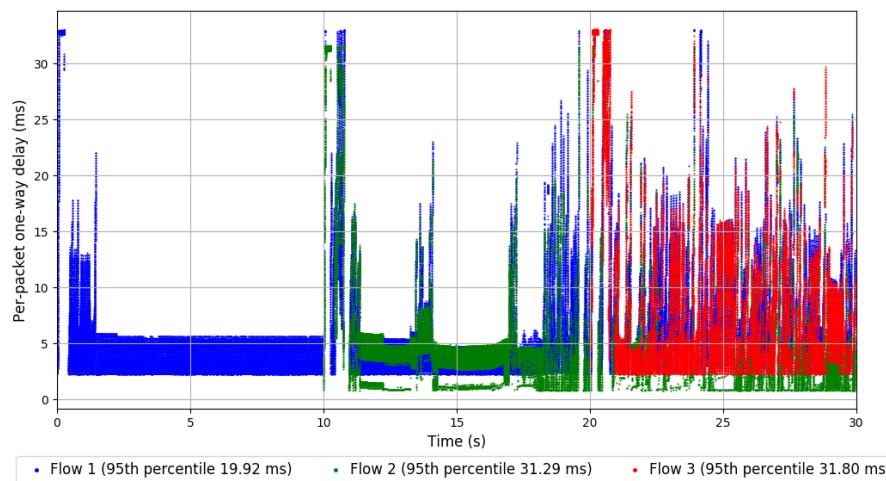
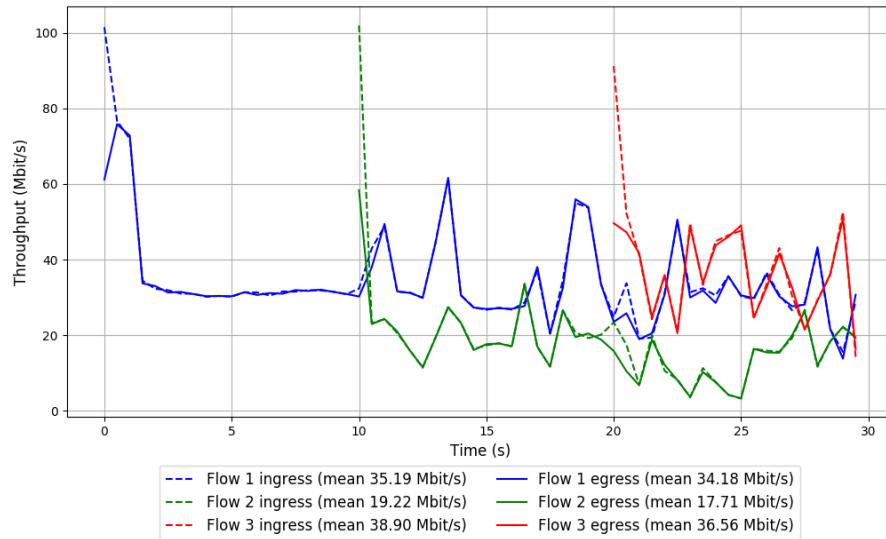


Run 5: Statistics of Verus

```
Start at: 2018-04-24 21:30:26
End at: 2018-04-24 21:30:56
Local clock offset: -4.806 ms
Remote clock offset: -4.792 ms

# Below is generated by plot.py at 2018-04-25 00:03:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.10 Mbit/s
95th percentile per-packet one-way delay: 26.282 ms
Loss rate: 4.53%
-- Flow 1:
Average throughput: 34.18 Mbit/s
95th percentile per-packet one-way delay: 19.919 ms
Loss rate: 2.82%
-- Flow 2:
Average throughput: 17.71 Mbit/s
95th percentile per-packet one-way delay: 31.285 ms
Loss rate: 7.83%
-- Flow 3:
Average throughput: 36.56 Mbit/s
95th percentile per-packet one-way delay: 31.805 ms
Loss rate: 5.93%
```

Run 5: Report of Verus — Data Link

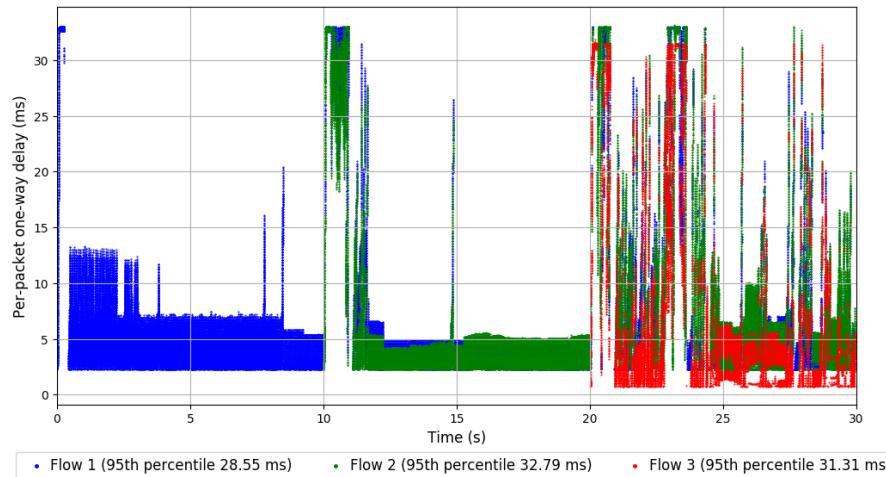
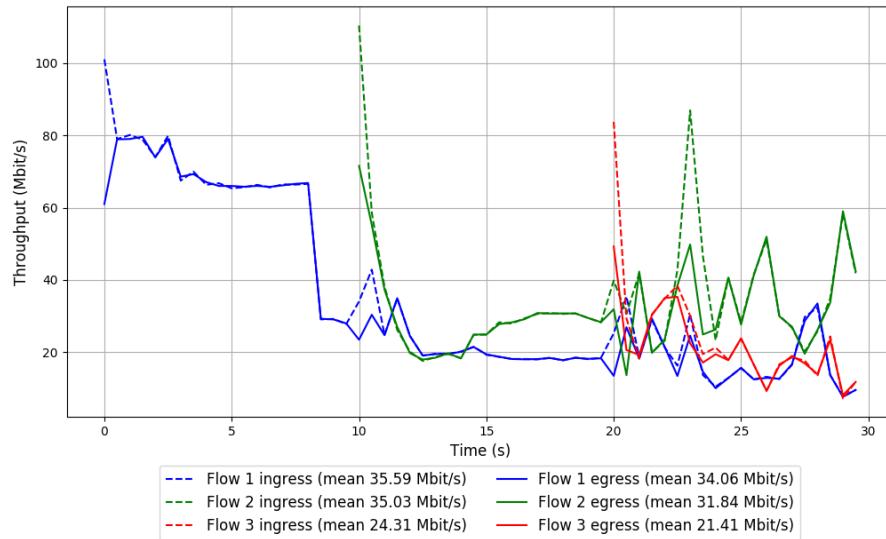


Run 6: Statistics of Verus

```
Start at: 2018-04-24 21:49:35
End at: 2018-04-24 21:50:05
Local clock offset: -5.119 ms
Remote clock offset: -4.596 ms

# Below is generated by plot.py at 2018-04-25 00:03:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.36 Mbit/s
95th percentile per-packet one-way delay: 31.305 ms
Loss rate: 6.88%
-- Flow 1:
Average throughput: 34.06 Mbit/s
95th percentile per-packet one-way delay: 28.549 ms
Loss rate: 4.30%
-- Flow 2:
Average throughput: 31.84 Mbit/s
95th percentile per-packet one-way delay: 32.786 ms
Loss rate: 9.09%
-- Flow 3:
Average throughput: 21.41 Mbit/s
95th percentile per-packet one-way delay: 31.309 ms
Loss rate: 11.88%
```

Run 6: Report of Verus — Data Link

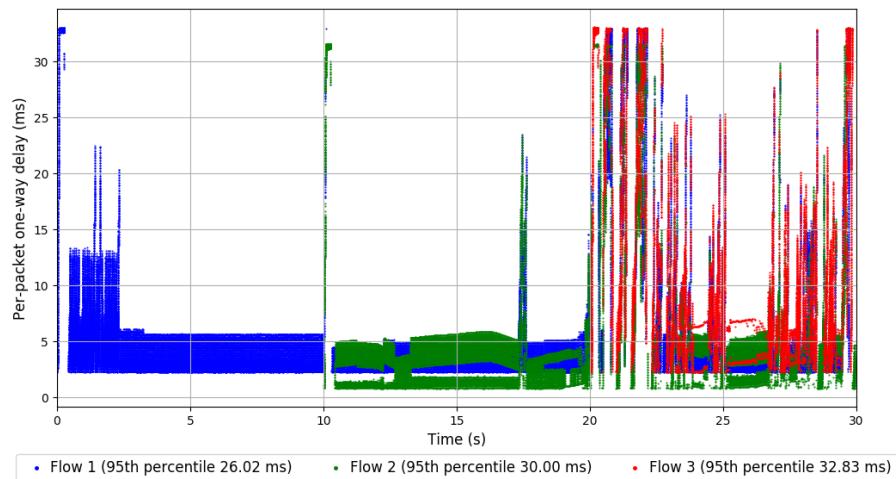
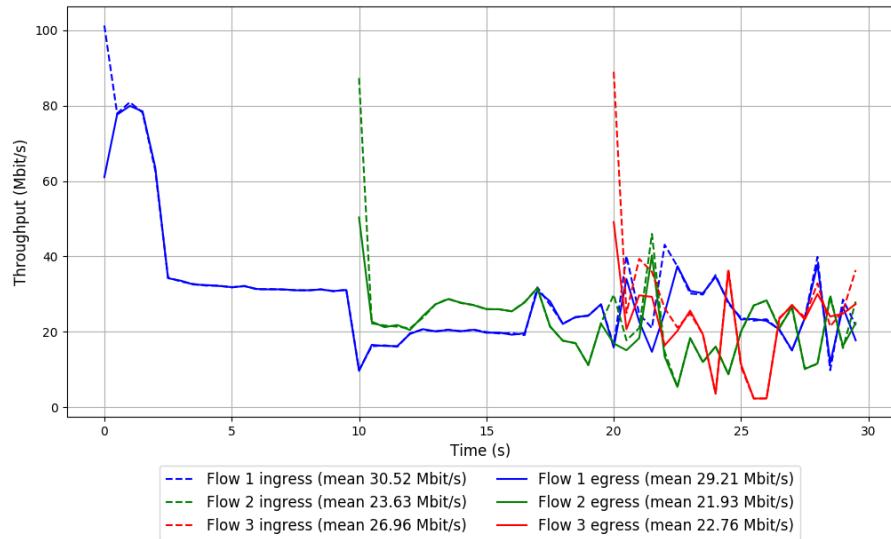


Run 7: Statistics of Verus

```
Start at: 2018-04-24 22:08:47
End at: 2018-04-24 22:09:17
Local clock offset: -5.266 ms
Remote clock offset: -4.265 ms

# Below is generated by plot.py at 2018-04-25 00:03:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 51.25 Mbit/s
95th percentile per-packet one-way delay: 30.438 ms
Loss rate: 6.90%
-- Flow 1:
Average throughput: 29.21 Mbit/s
95th percentile per-packet one-way delay: 26.019 ms
Loss rate: 4.31%
-- Flow 2:
Average throughput: 21.93 Mbit/s
95th percentile per-packet one-way delay: 29.996 ms
Loss rate: 7.19%
-- Flow 3:
Average throughput: 22.76 Mbit/s
95th percentile per-packet one-way delay: 32.829 ms
Loss rate: 15.38%
```

Run 7: Report of Verus — Data Link

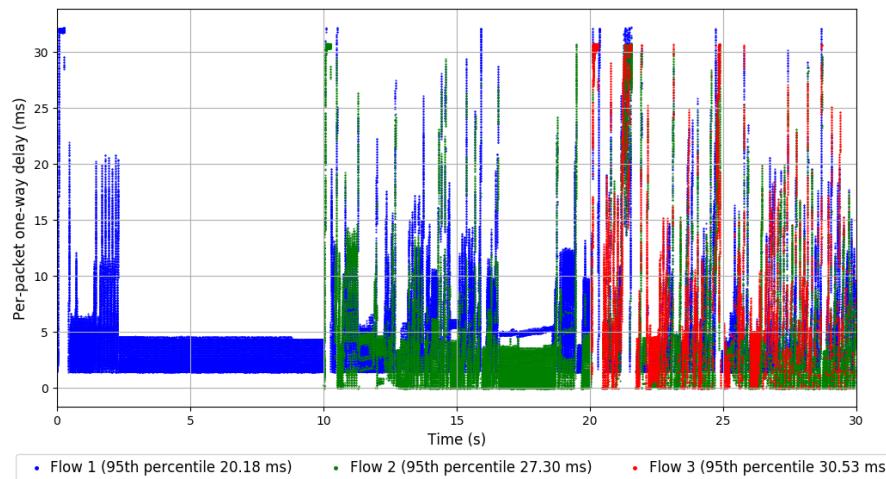
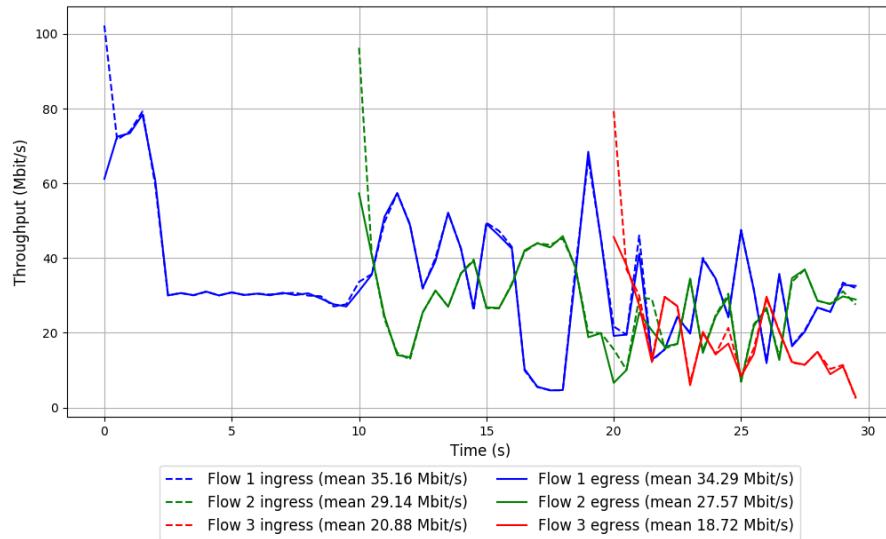


Run 8: Statistics of Verus

```
Start at: 2018-04-24 22:27:58
End at: 2018-04-24 22:28:28
Local clock offset: -4.526 ms
Remote clock offset: -3.938 ms

# Below is generated by plot.py at 2018-04-25 00:04:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.84 Mbit/s
95th percentile per-packet one-way delay: 25.836 ms
Loss rate: 4.28%
-- Flow 1:
Average throughput: 34.29 Mbit/s
95th percentile per-packet one-way delay: 20.182 ms
Loss rate: 2.47%
-- Flow 2:
Average throughput: 27.57 Mbit/s
95th percentile per-packet one-way delay: 27.300 ms
Loss rate: 5.37%
-- Flow 3:
Average throughput: 18.72 Mbit/s
95th percentile per-packet one-way delay: 30.533 ms
Loss rate: 10.40%
```

Run 8: Report of Verus — Data Link

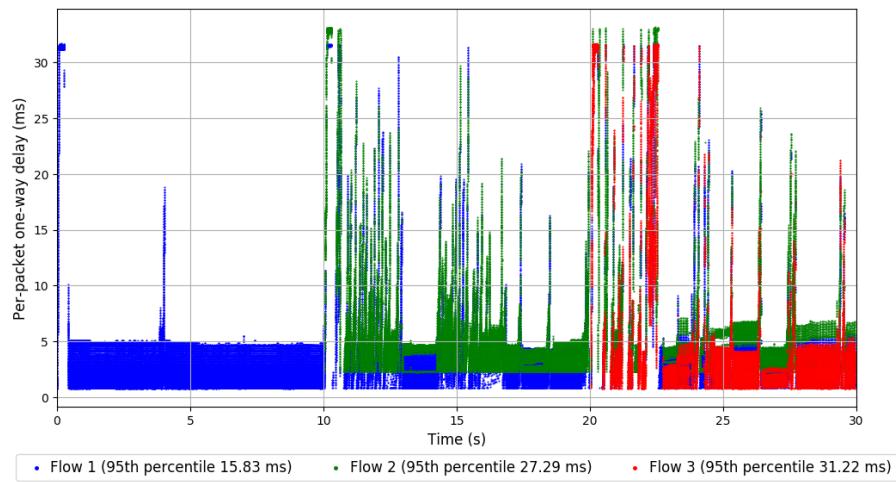
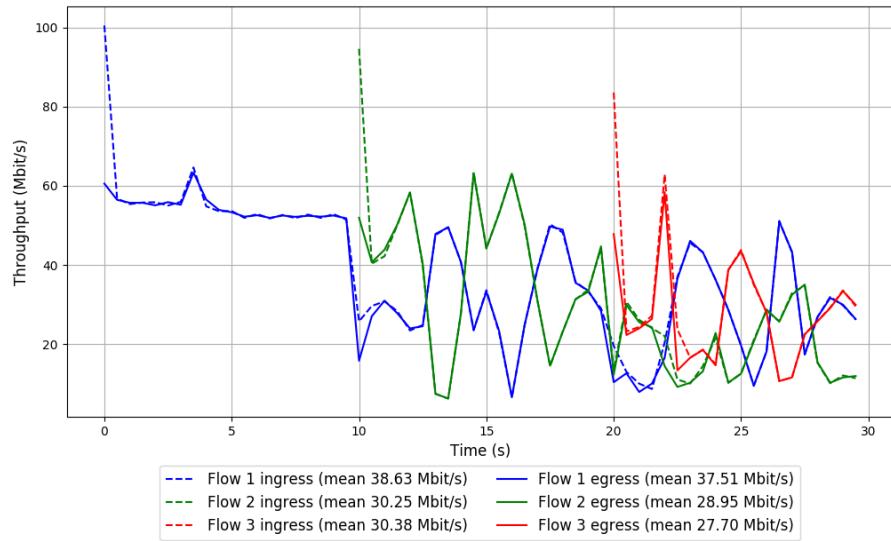


Run 9: Statistics of Verus

```
Start at: 2018-04-24 22:47:10
End at: 2018-04-24 22:47:40
Local clock offset: -5.248 ms
Remote clock offset: -5.718 ms

# Below is generated by plot.py at 2018-04-25 00:04:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.95 Mbit/s
95th percentile per-packet one-way delay: 23.146 ms
Loss rate: 4.17%
-- Flow 1:
Average throughput: 37.51 Mbit/s
95th percentile per-packet one-way delay: 15.826 ms
Loss rate: 2.90%
-- Flow 2:
Average throughput: 28.95 Mbit/s
95th percentile per-packet one-way delay: 27.294 ms
Loss rate: 4.28%
-- Flow 3:
Average throughput: 27.70 Mbit/s
95th percentile per-packet one-way delay: 31.217 ms
Loss rate: 8.81%
```

Run 9: Report of Verus — Data Link

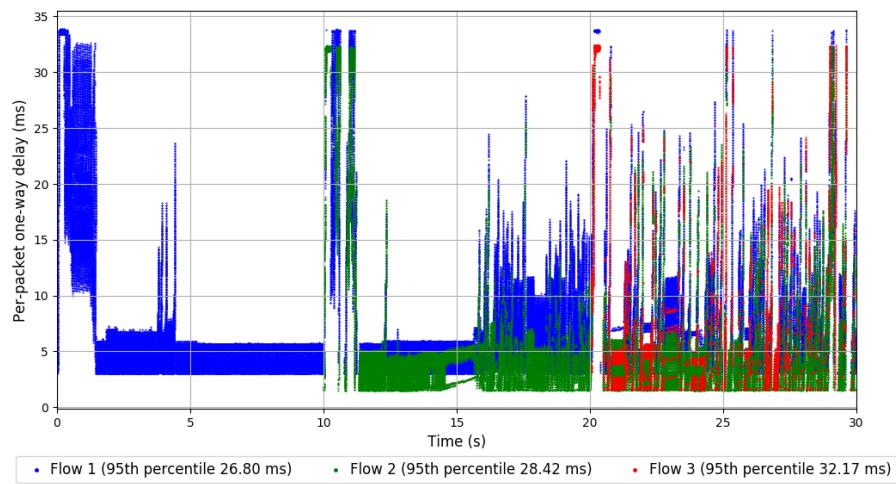
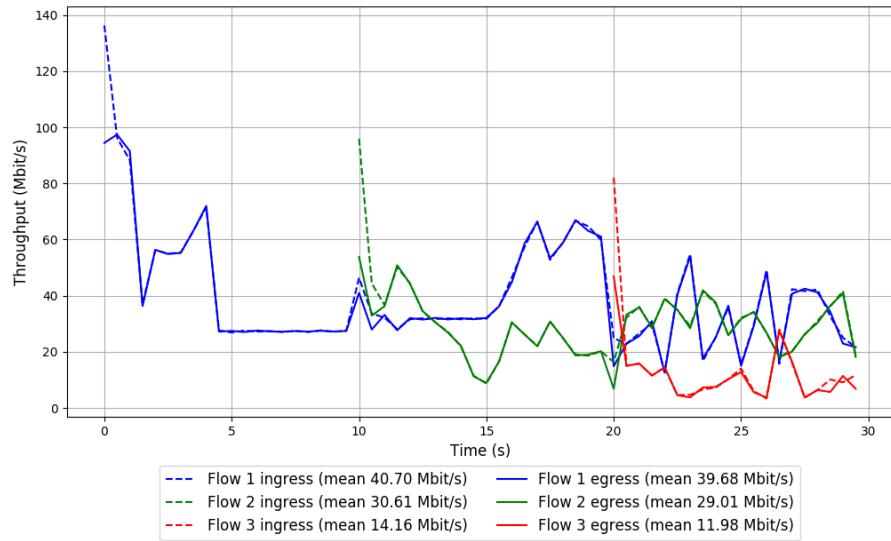


Run 10: Statistics of Verus

```
Start at: 2018-04-24 23:06:21
End at: 2018-04-24 23:06:51
Local clock offset: -5.593 ms
Remote clock offset: -6.621 ms

# Below is generated by plot.py at 2018-04-25 00:04:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.95 Mbit/s
95th percentile per-packet one-way delay: 29.065 ms
Loss rate: 4.28%
-- Flow 1:
Average throughput: 39.68 Mbit/s
95th percentile per-packet one-way delay: 26.805 ms
Loss rate: 2.50%
-- Flow 2:
Average throughput: 29.01 Mbit/s
95th percentile per-packet one-way delay: 28.424 ms
Loss rate: 5.24%
-- Flow 3:
Average throughput: 11.98 Mbit/s
95th percentile per-packet one-way delay: 32.167 ms
Loss rate: 15.47%
```

Run 10: Report of Verus — Data Link

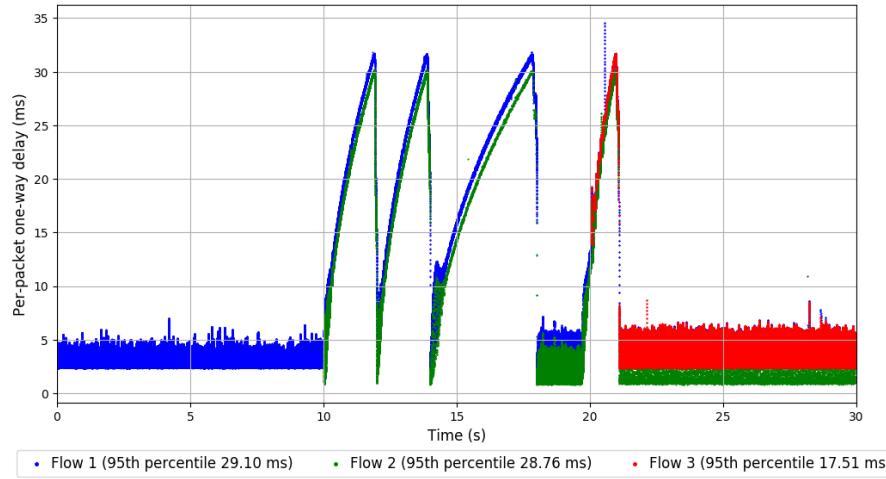
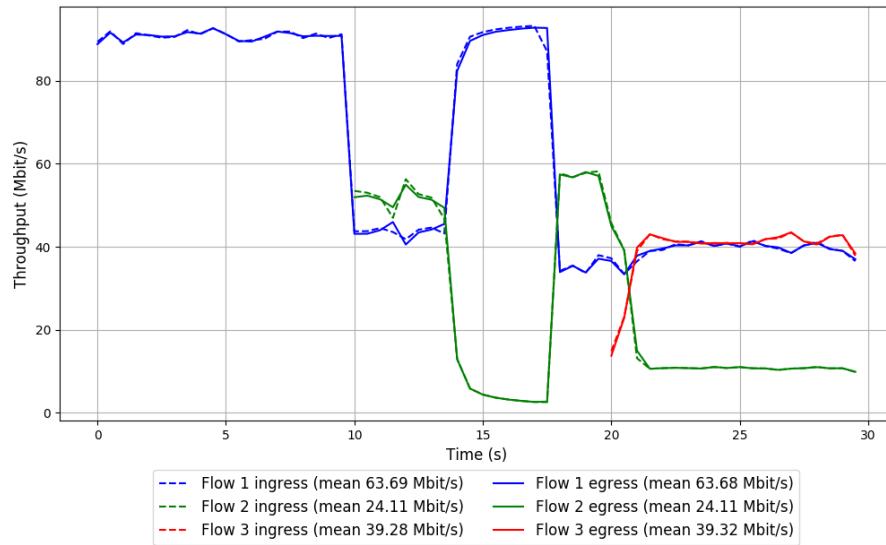


Run 1: Statistics of Copa

```
Start at: 2018-04-24 20:17:01
End at: 2018-04-24 20:17:31
Local clock offset: -5.049 ms
Remote clock offset: -7.53 ms

# Below is generated by plot.py at 2018-04-25 00:05:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.77 Mbit/s
95th percentile per-packet one-way delay: 28.683 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.68 Mbit/s
95th percentile per-packet one-way delay: 29.099 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.11 Mbit/s
95th percentile per-packet one-way delay: 28.763 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 39.32 Mbit/s
95th percentile per-packet one-way delay: 17.506 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link

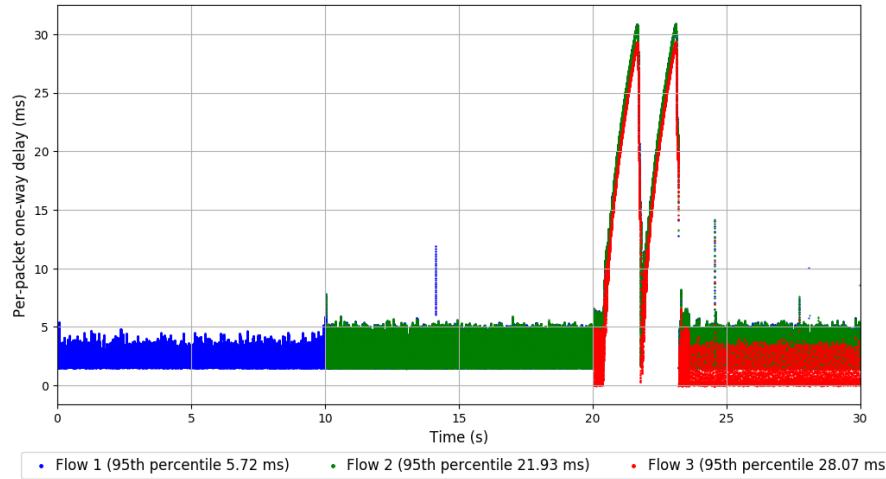
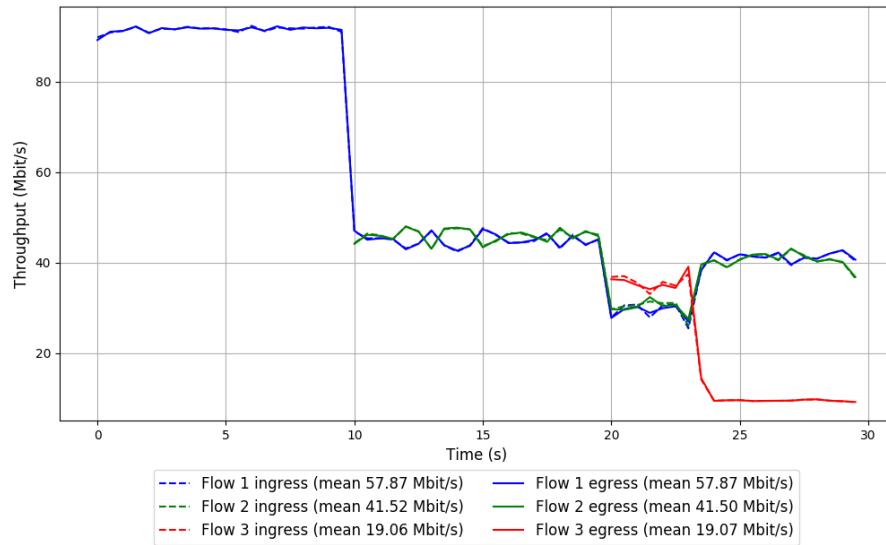


Run 2: Statistics of Copa

```
Start at: 2018-04-24 20:36:14
End at: 2018-04-24 20:36:44
Local clock offset: -4.207 ms
Remote clock offset: -8.051 ms

# Below is generated by plot.py at 2018-04-25 00:06:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.82 Mbit/s
95th percentile per-packet one-way delay: 20.981 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 57.87 Mbit/s
95th percentile per-packet one-way delay: 5.721 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.50 Mbit/s
95th percentile per-packet one-way delay: 21.925 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 19.07 Mbit/s
95th percentile per-packet one-way delay: 28.065 ms
Loss rate: 0.02%
```

Run 2: Report of Copa — Data Link

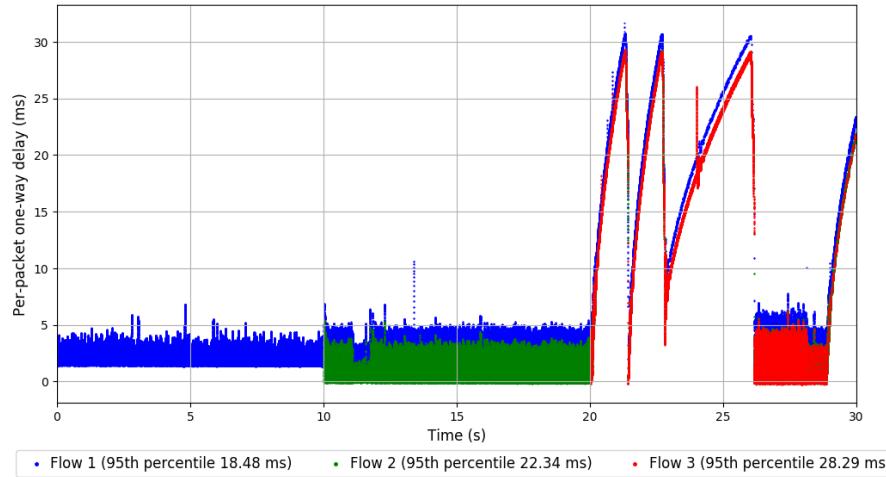
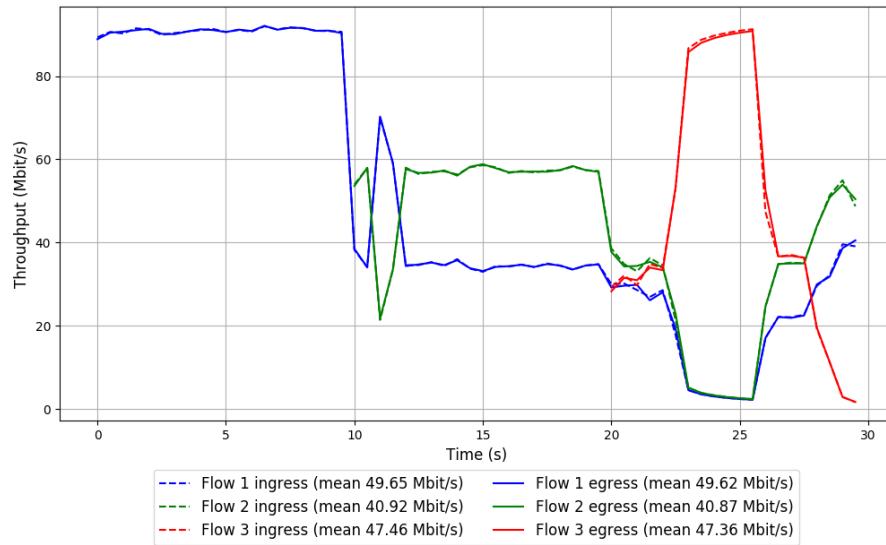


Run 3: Statistics of Copa

```
Start at: 2018-04-24 20:55:26
End at: 2018-04-24 20:55:56
Local clock offset: -4.249 ms
Remote clock offset: -7.72 ms

# Below is generated by plot.py at 2018-04-25 00:06:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.57 Mbit/s
95th percentile per-packet one-way delay: 25.689 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.62 Mbit/s
95th percentile per-packet one-way delay: 18.477 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.87 Mbit/s
95th percentile per-packet one-way delay: 22.335 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 47.36 Mbit/s
95th percentile per-packet one-way delay: 28.287 ms
Loss rate: 0.00%
```

Run 3: Report of Copa — Data Link

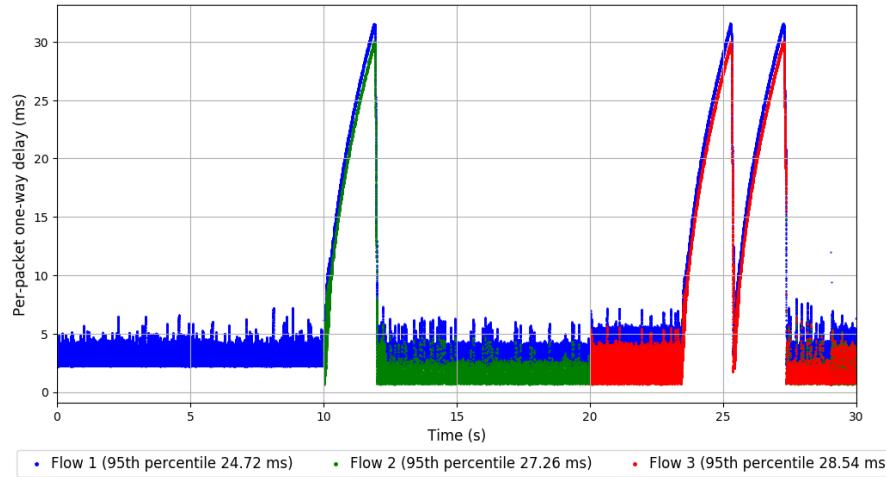
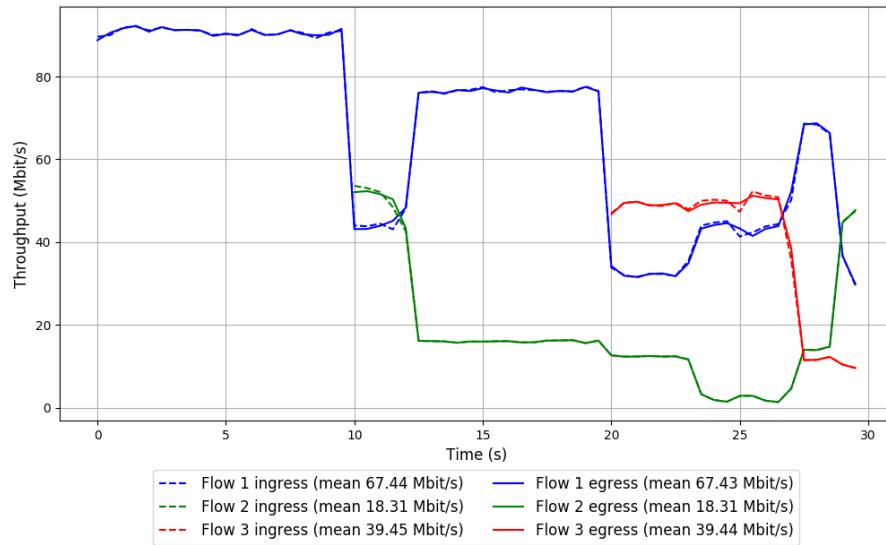


Run 4: Statistics of Copa

```
Start at: 2018-04-24 21:14:38
End at: 2018-04-24 21:15:08
Local clock offset: -4.83 ms
Remote clock offset: -5.307 ms

# Below is generated by plot.py at 2018-04-25 00:06:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.70 Mbit/s
95th percentile per-packet one-way delay: 26.690 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 67.43 Mbit/s
95th percentile per-packet one-way delay: 24.724 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 18.31 Mbit/s
95th percentile per-packet one-way delay: 27.258 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 39.44 Mbit/s
95th percentile per-packet one-way delay: 28.539 ms
Loss rate: 0.01%
```

Run 4: Report of Copa — Data Link

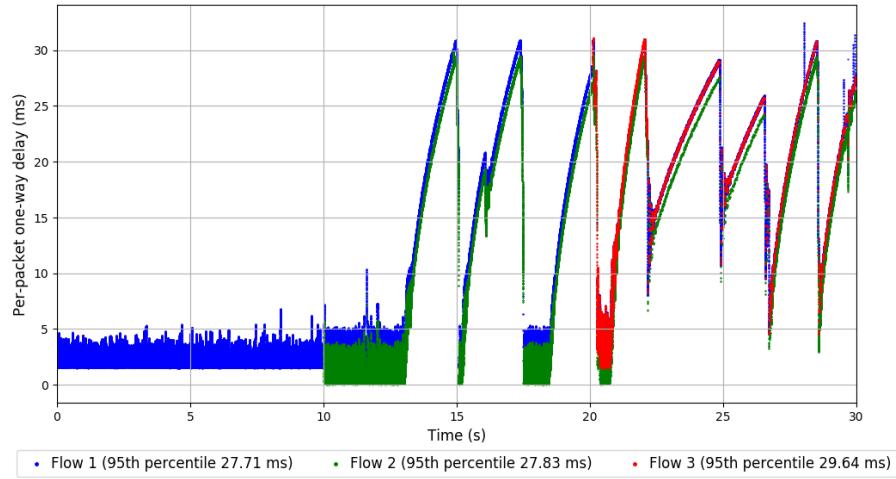
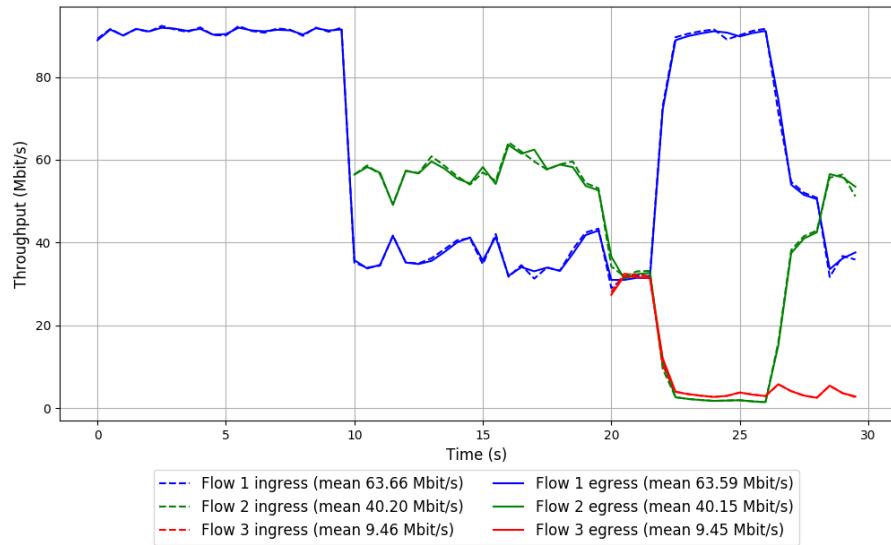


Run 5: Statistics of Copa

```
Start at: 2018-04-24 21:33:50
End at: 2018-04-24 21:34:20
Local clock offset: -4.076 ms
Remote clock offset: -4.806 ms

# Below is generated by plot.py at 2018-04-25 00:06:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.47 Mbit/s
95th percentile per-packet one-way delay: 27.844 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 63.59 Mbit/s
95th percentile per-packet one-way delay: 27.712 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 40.15 Mbit/s
95th percentile per-packet one-way delay: 27.834 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 9.45 Mbit/s
95th percentile per-packet one-way delay: 29.637 ms
Loss rate: 0.19%
```

Run 5: Report of Copa — Data Link

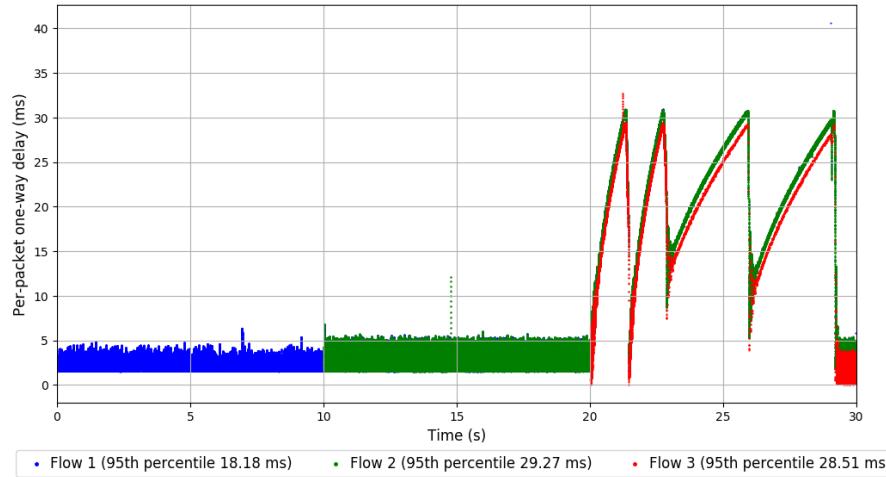
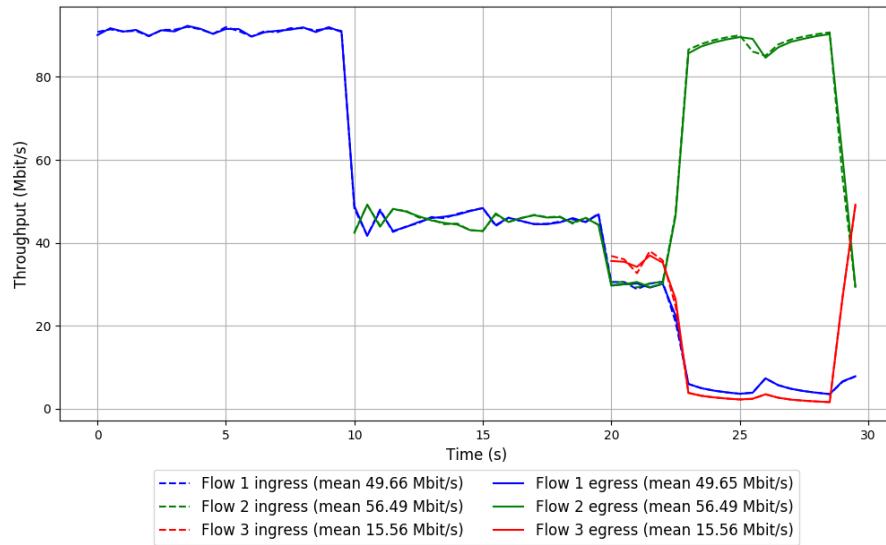


Run 6: Statistics of Copa

```
Start at: 2018-04-24 21:52:59
End at: 2018-04-24 21:53:29
Local clock offset: -4.392 ms
Remote clock offset: -4.522 ms

# Below is generated by plot.py at 2018-04-25 00:06:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.44 Mbit/s
95th percentile per-packet one-way delay: 28.177 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.65 Mbit/s
95th percentile per-packet one-way delay: 18.182 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 56.49 Mbit/s
95th percentile per-packet one-way delay: 29.266 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 15.56 Mbit/s
95th percentile per-packet one-way delay: 28.512 ms
Loss rate: 0.02%
```

Run 6: Report of Copa — Data Link

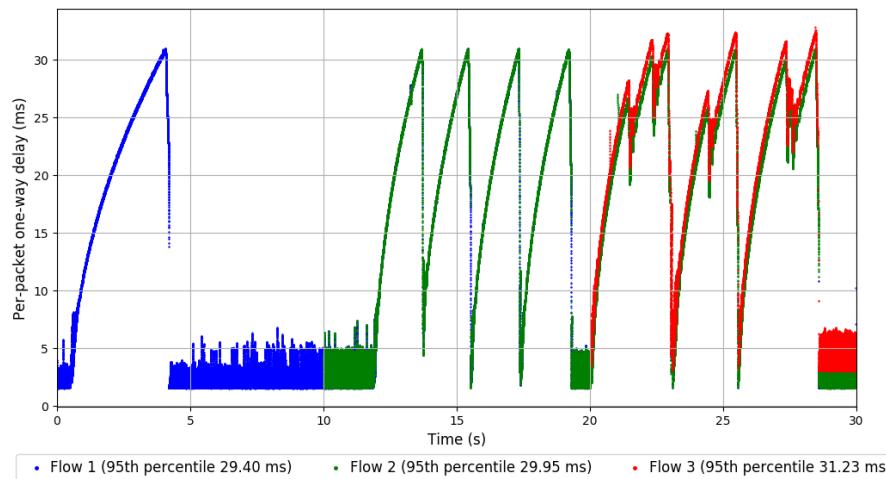
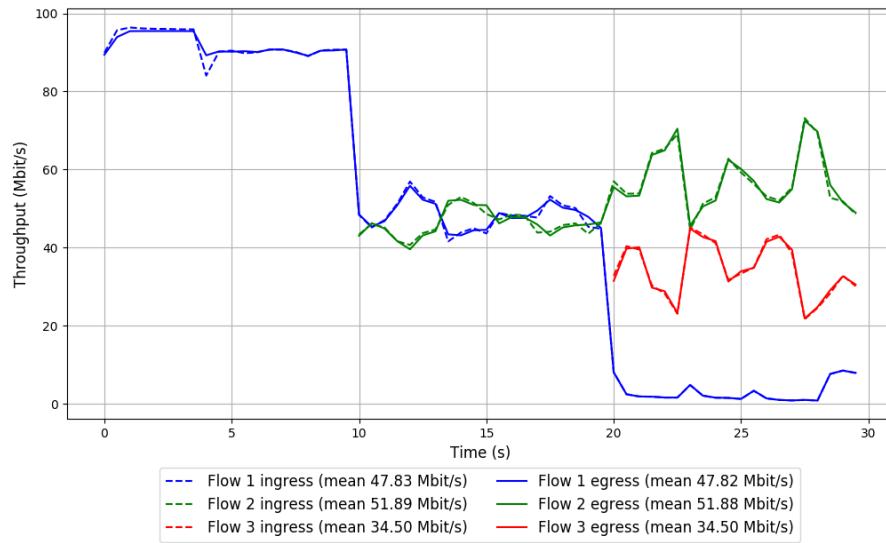


Run 7: Statistics of Copa

```
Start at: 2018-04-24 22:12:10
End at: 2018-04-24 22:12:40
Local clock offset: -6.103 ms
Remote clock offset: -4.267 ms

# Below is generated by plot.py at 2018-04-25 00:06:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.81 Mbit/s
95th percentile per-packet one-way delay: 29.937 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 47.82 Mbit/s
95th percentile per-packet one-way delay: 29.401 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 51.88 Mbit/s
95th percentile per-packet one-way delay: 29.953 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 34.50 Mbit/s
95th percentile per-packet one-way delay: 31.233 ms
Loss rate: 0.03%
```

Run 7: Report of Copa — Data Link

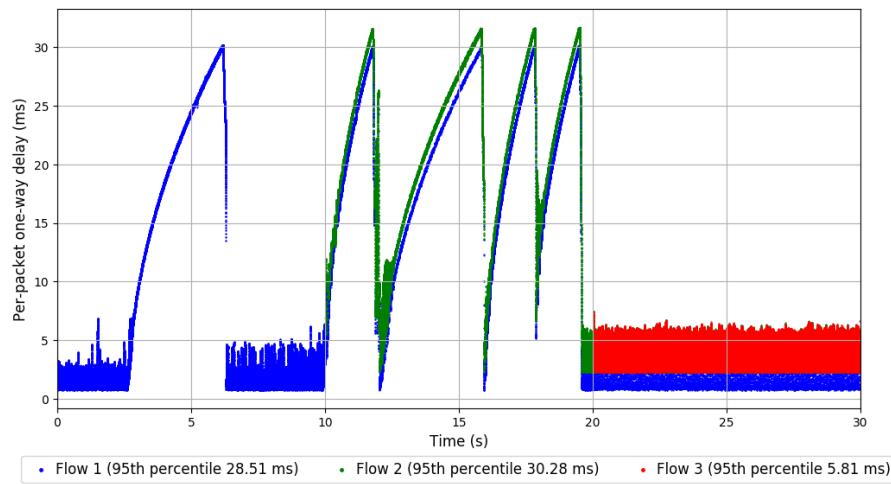
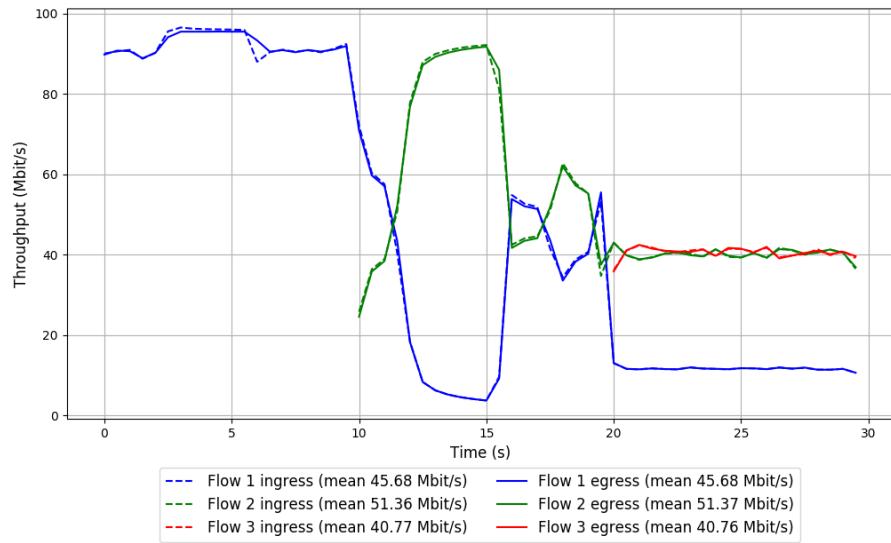


Run 8: Statistics of Copa

```
Start at: 2018-04-24 22:31:22
End at: 2018-04-24 22:31:52
Local clock offset: -5.291 ms
Remote clock offset: -3.805 ms

# Below is generated by plot.py at 2018-04-25 00:06:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.39 Mbit/s
95th percentile per-packet one-way delay: 29.096 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 45.68 Mbit/s
95th percentile per-packet one-way delay: 28.509 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 51.37 Mbit/s
95th percentile per-packet one-way delay: 30.283 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 40.76 Mbit/s
95th percentile per-packet one-way delay: 5.811 ms
Loss rate: 0.00%
```

Run 8: Report of Copa — Data Link

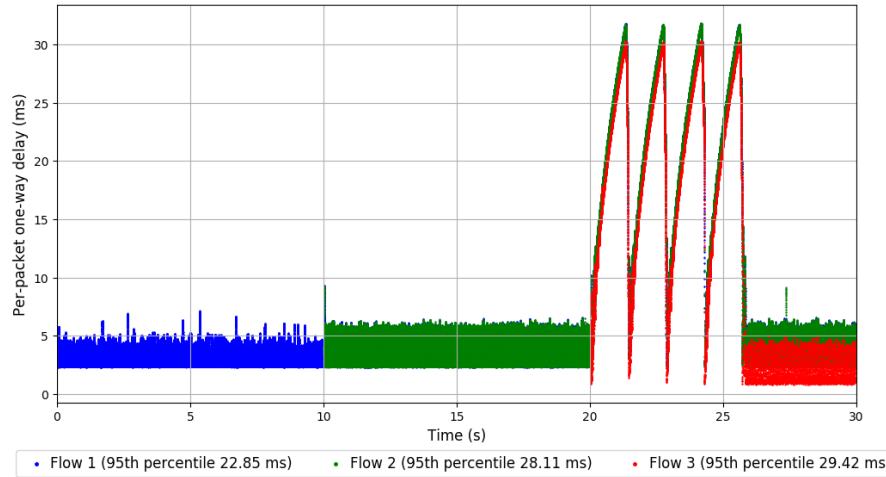
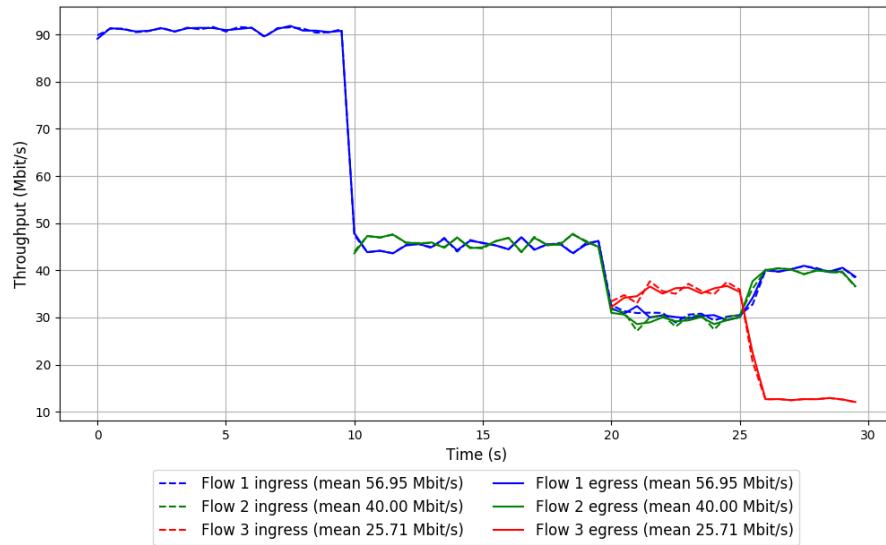


Run 9: Statistics of Copa

```
Start at: 2018-04-24 22:50:34
End at: 2018-04-24 22:51:04
Local clock offset: -5.098 ms
Remote clock offset: -5.937 ms

# Below is generated by plot.py at 2018-04-25 00:08:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.12 Mbit/s
95th percentile per-packet one-way delay: 27.091 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 56.95 Mbit/s
95th percentile per-packet one-way delay: 22.851 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.00 Mbit/s
95th percentile per-packet one-way delay: 28.113 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 25.71 Mbit/s
95th percentile per-packet one-way delay: 29.416 ms
Loss rate: 0.02%
```

Run 9: Report of Copa — Data Link

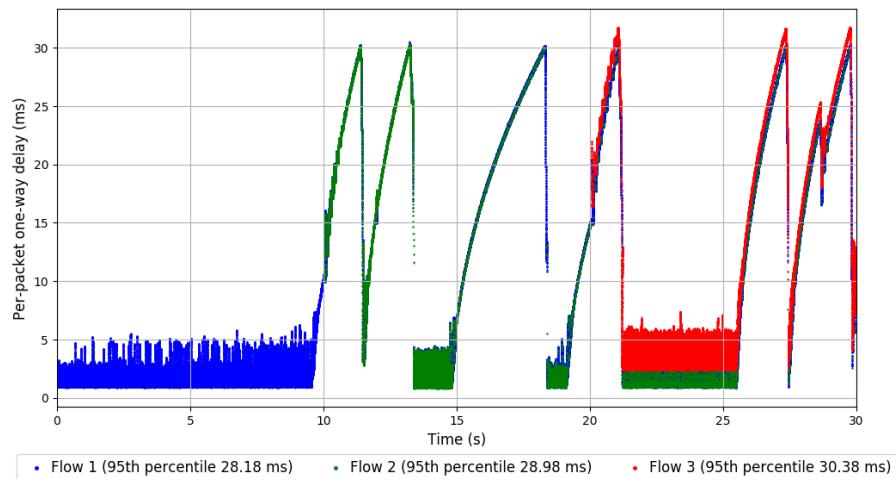
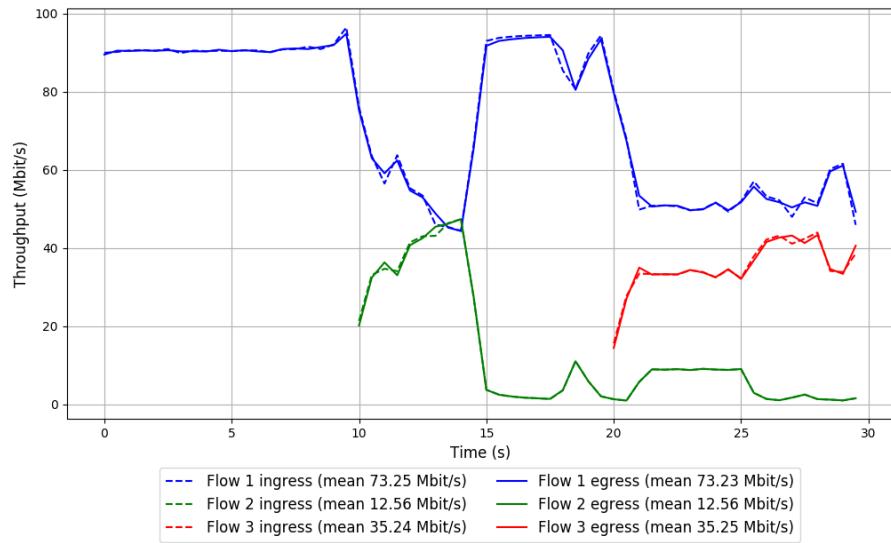


Run 10: Statistics of Copa

```
Start at: 2018-04-24 23:09:45
End at: 2018-04-24 23:10:15
Local clock offset: -4.903 ms
Remote clock offset: -6.723 ms

# Below is generated by plot.py at 2018-04-25 00:08:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.28 Mbit/s
95th percentile per-packet one-way delay: 28.658 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 73.23 Mbit/s
95th percentile per-packet one-way delay: 28.177 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.56 Mbit/s
95th percentile per-packet one-way delay: 28.979 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 35.25 Mbit/s
95th percentile per-packet one-way delay: 30.376 ms
Loss rate: 0.01%
```

Run 10: Report of Copa — Data Link

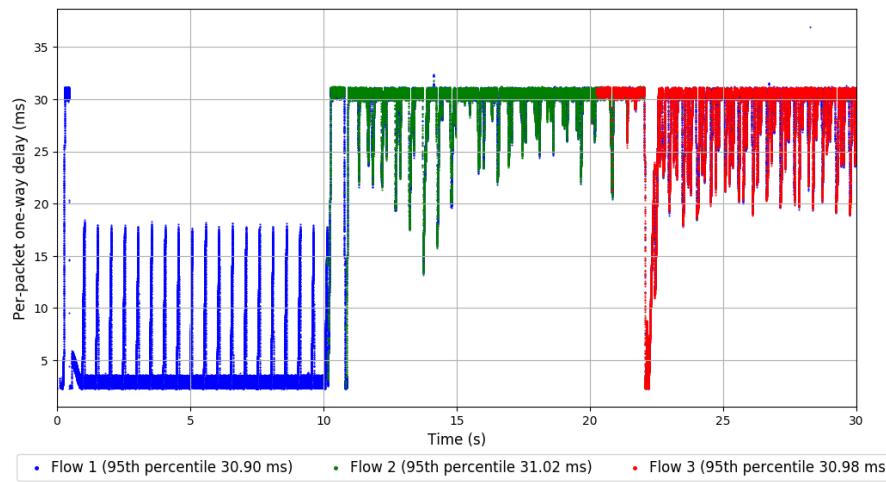
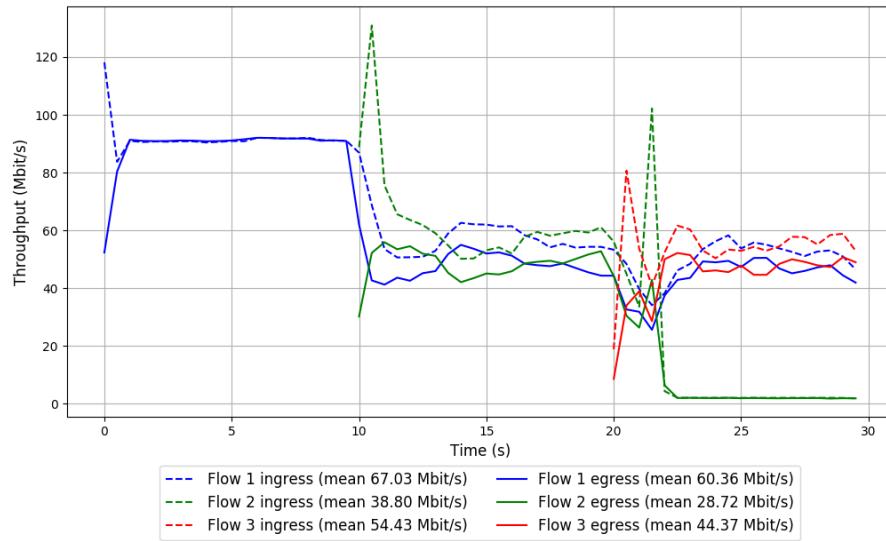


```
Run 1: Statistics of FillP

Start at: 2018-04-24 20:28:12
End at: 2018-04-24 20:28:42
Local clock offset: -5.139 ms
Remote clock offset: -7.864 ms

# Below is generated by plot.py at 2018-04-25 00:08:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.19 Mbit/s
95th percentile per-packet one-way delay: 30.955 ms
Loss rate: 14.99%
-- Flow 1:
Average throughput: 60.36 Mbit/s
95th percentile per-packet one-way delay: 30.903 ms
Loss rate: 9.85%
-- Flow 2:
Average throughput: 28.72 Mbit/s
95th percentile per-packet one-way delay: 31.015 ms
Loss rate: 25.88%
-- Flow 3:
Average throughput: 44.37 Mbit/s
95th percentile per-packet one-way delay: 30.983 ms
Loss rate: 18.47%
```

Run 1: Report of FillP — Data Link

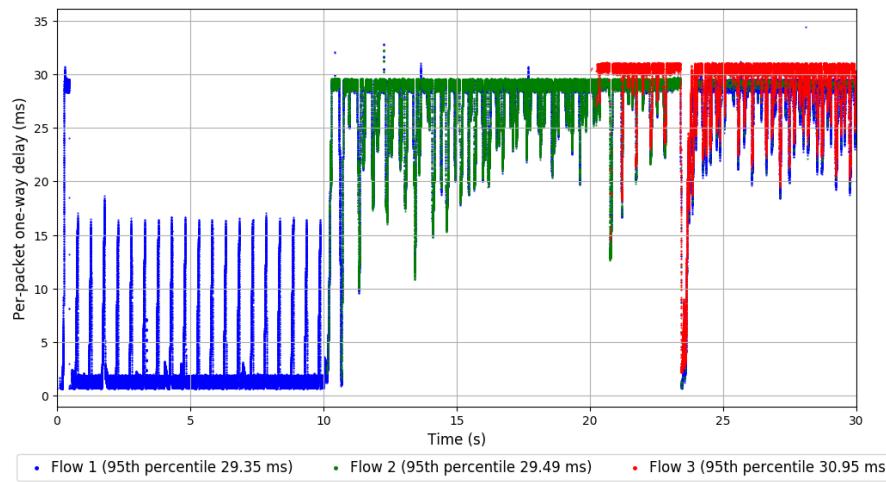
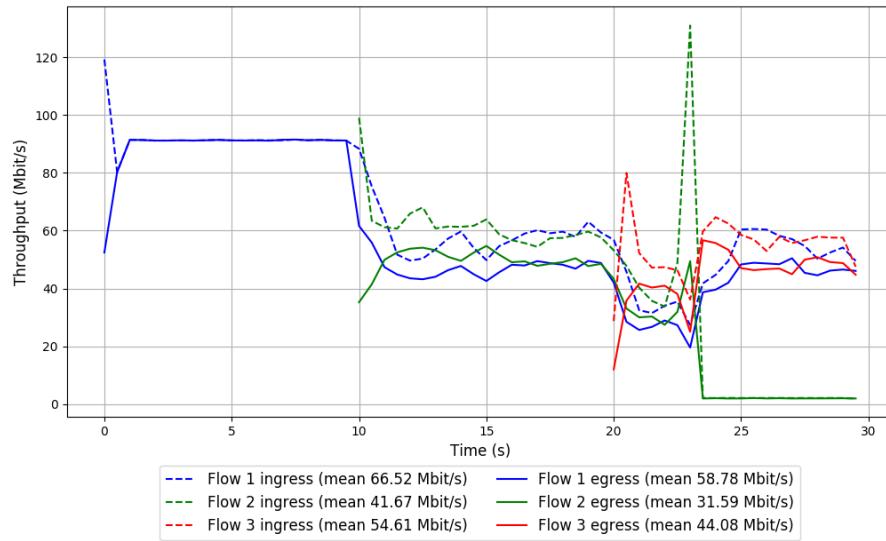


Run 2: Statistics of FillP

```
Start at: 2018-04-24 20:47:25
End at: 2018-04-24 20:47:55
Local clock offset: -4.948 ms
Remote clock offset: -8.292 ms

# Below is generated by plot.py at 2018-04-25 00:08:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.41 Mbit/s
95th percentile per-packet one-way delay: 30.645 ms
Loss rate: 15.89%
-- Flow 1:
Average throughput: 58.78 Mbit/s
95th percentile per-packet one-way delay: 29.346 ms
Loss rate: 11.55%
-- Flow 2:
Average throughput: 31.59 Mbit/s
95th percentile per-packet one-way delay: 29.488 ms
Loss rate: 24.09%
-- Flow 3:
Average throughput: 44.08 Mbit/s
95th percentile per-packet one-way delay: 30.947 ms
Loss rate: 19.29%
```

Run 2: Report of FillP — Data Link

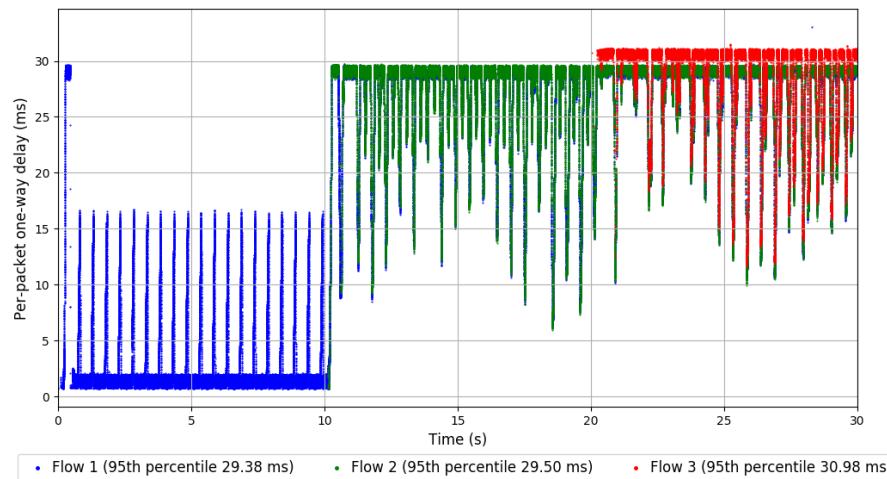
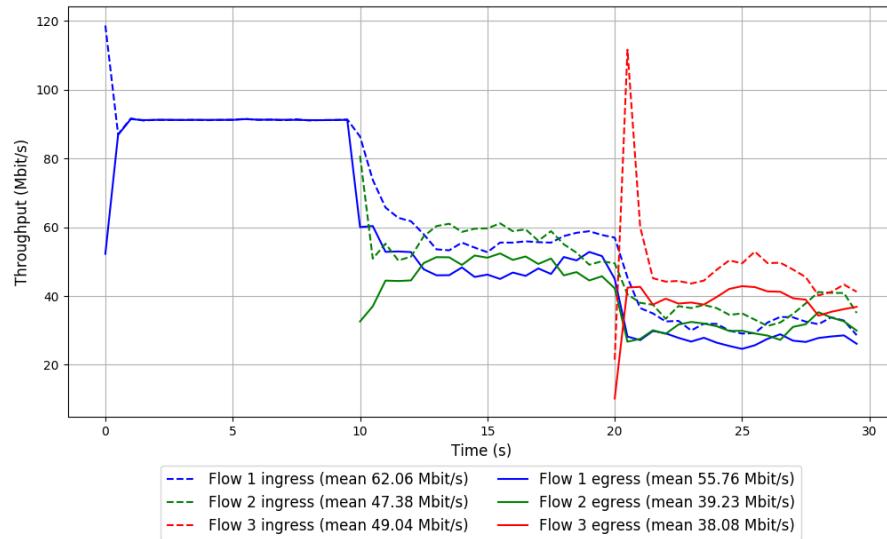


Run 3: Statistics of FillP

```
Start at: 2018-04-24 21:06:37
End at: 2018-04-24 21:07:07
Local clock offset: -4.946 ms
Remote clock offset: -5.802 ms

# Below is generated by plot.py at 2018-04-25 00:08:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.50 Mbit/s
95th percentile per-packet one-way delay: 30.684 ms
Loss rate: 13.90%
-- Flow 1:
Average throughput: 55.76 Mbit/s
95th percentile per-packet one-way delay: 29.379 ms
Loss rate: 10.06%
-- Flow 2:
Average throughput: 39.23 Mbit/s
95th percentile per-packet one-way delay: 29.502 ms
Loss rate: 17.09%
-- Flow 3:
Average throughput: 38.08 Mbit/s
95th percentile per-packet one-way delay: 30.975 ms
Loss rate: 22.35%
```

Run 3: Report of FillP — Data Link

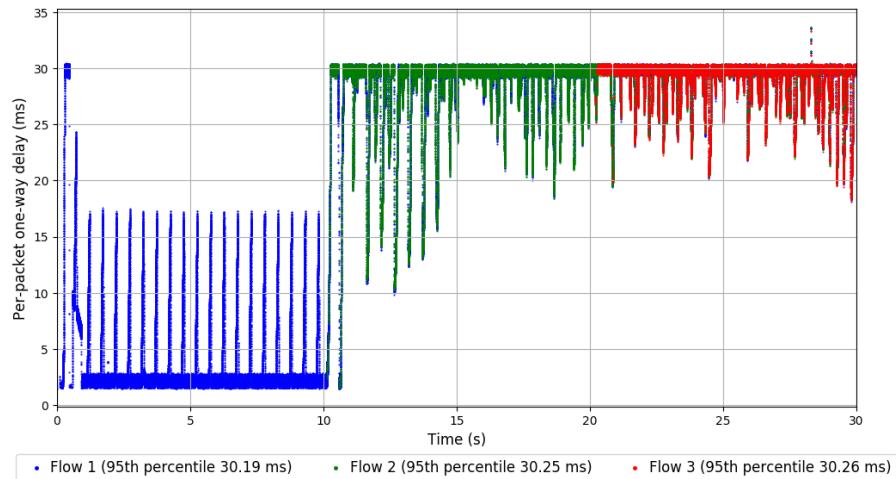
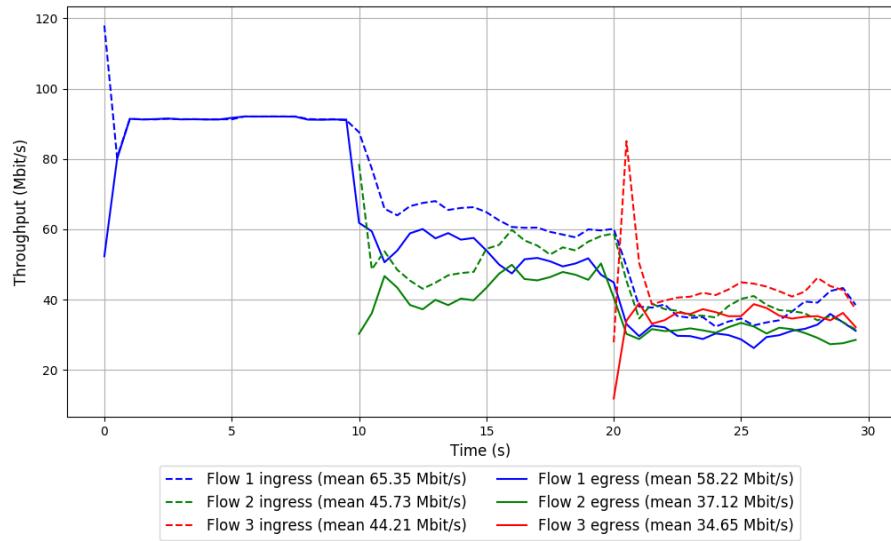


Run 4: Statistics of FillP

```
Start at: 2018-04-24 21:25:49
End at: 2018-04-24 21:26:19
Local clock offset: -4.078 ms
Remote clock offset: -4.797 ms

# Below is generated by plot.py at 2018-04-25 00:08:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.42 Mbit/s
95th percentile per-packet one-way delay: 30.228 ms
Loss rate: 14.43%
-- Flow 1:
Average throughput: 58.22 Mbit/s
95th percentile per-packet one-way delay: 30.190 ms
Loss rate: 10.82%
-- Flow 2:
Average throughput: 37.12 Mbit/s
95th percentile per-packet one-way delay: 30.255 ms
Loss rate: 18.71%
-- Flow 3:
Average throughput: 34.65 Mbit/s
95th percentile per-packet one-way delay: 30.263 ms
Loss rate: 21.64%
```

Run 4: Report of FillP — Data Link

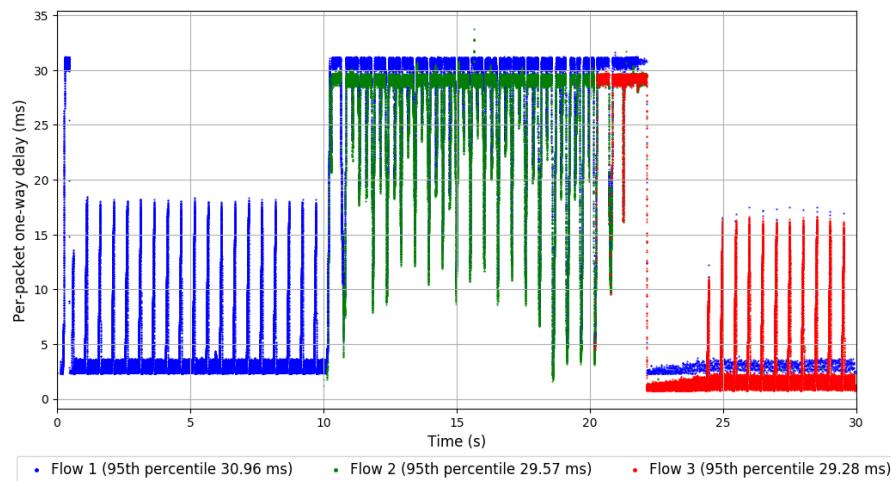
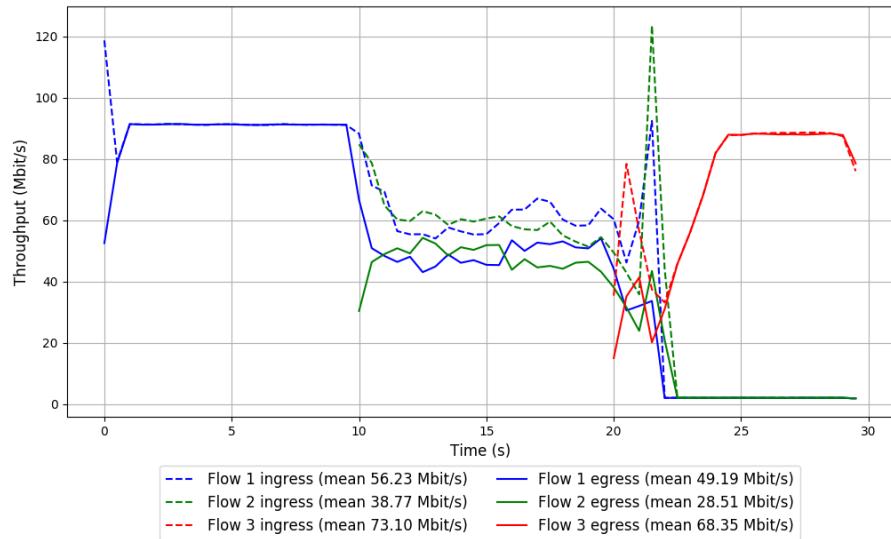


Run 5: Statistics of FillP

```
Start at: 2018-04-24 21:45:00
End at: 2018-04-24 21:45:30
Local clock offset: -5.095 ms
Remote clock offset: -4.678 ms

# Below is generated by plot.py at 2018-04-25 00:08:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.77 Mbit/s
95th percentile per-packet one-way delay: 30.854 ms
Loss rate: 14.59%
-- Flow 1:
Average throughput: 49.19 Mbit/s
95th percentile per-packet one-way delay: 30.958 ms
Loss rate: 12.51%
-- Flow 2:
Average throughput: 28.51 Mbit/s
95th percentile per-packet one-way delay: 29.567 ms
Loss rate: 26.47%
-- Flow 3:
Average throughput: 68.35 Mbit/s
95th percentile per-packet one-way delay: 29.284 ms
Loss rate: 6.75%
```

Run 5: Report of FillP — Data Link

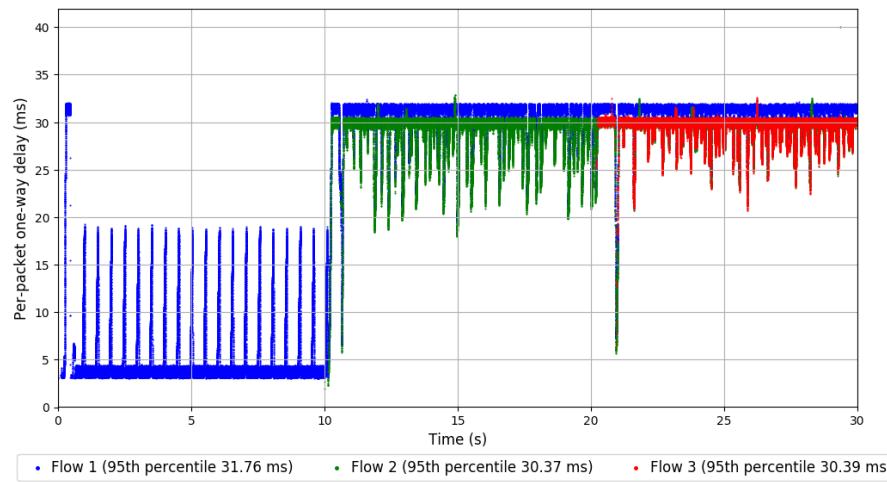
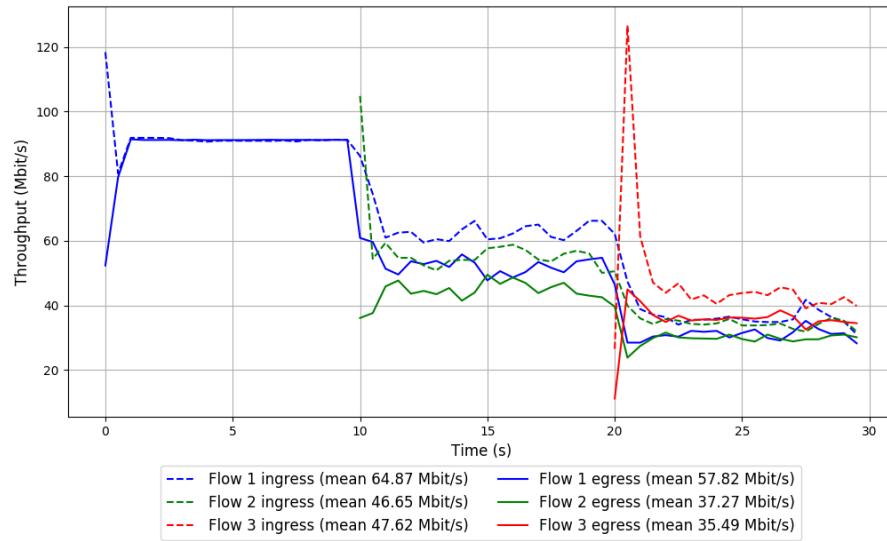


Run 6: Statistics of FillP

```
Start at: 2018-04-24 22:04:09
End at: 2018-04-24 22:04:40
Local clock offset: -6.07 ms
Remote clock offset: -4.341 ms

# Below is generated by plot.py at 2018-04-25 00:08:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.40 Mbit/s
95th percentile per-packet one-way delay: 31.682 ms
Loss rate: 15.41%
-- Flow 1:
Average throughput: 57.82 Mbit/s
95th percentile per-packet one-way delay: 31.757 ms
Loss rate: 10.79%
-- Flow 2:
Average throughput: 37.27 Mbit/s
95th percentile per-packet one-way delay: 30.373 ms
Loss rate: 19.99%
-- Flow 3:
Average throughput: 35.49 Mbit/s
95th percentile per-packet one-way delay: 30.387 ms
Loss rate: 25.43%
```

Run 6: Report of FillP — Data Link

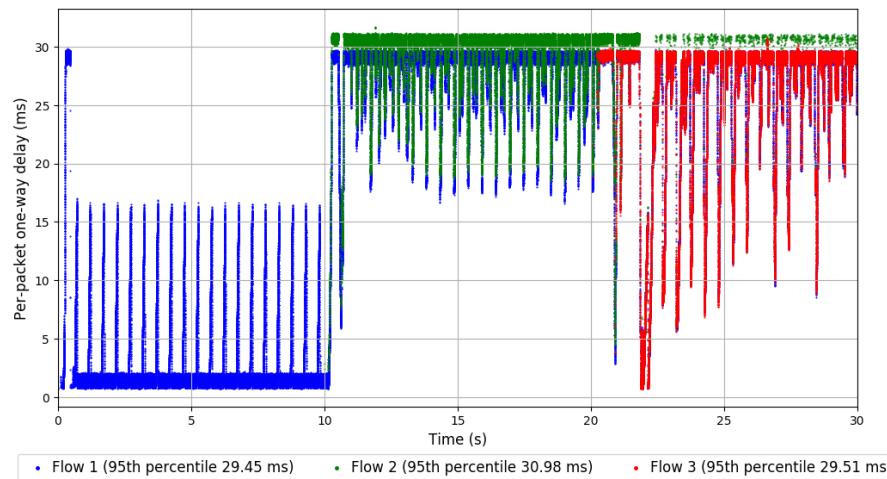
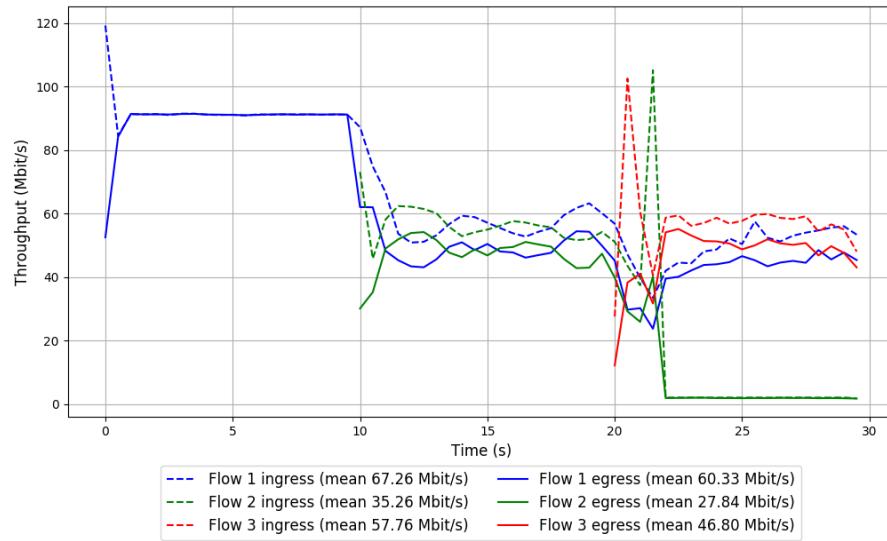


Run 7: Statistics of FillP

```
Start at: 2018-04-24 22:23:21
End at: 2018-04-24 22:23:51
Local clock offset: -5.256 ms
Remote clock offset: -3.966 ms

# Below is generated by plot.py at 2018-04-25 00:09:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.37 Mbit/s
95th percentile per-packet one-way delay: 30.756 ms
Loss rate: 14.04%
-- Flow 1:
Average throughput: 60.33 Mbit/s
95th percentile per-packet one-way delay: 29.448 ms
Loss rate: 10.24%
-- Flow 2:
Average throughput: 27.84 Mbit/s
95th percentile per-packet one-way delay: 30.985 ms
Loss rate: 20.93%
-- Flow 3:
Average throughput: 46.80 Mbit/s
95th percentile per-packet one-way delay: 29.511 ms
Loss rate: 18.95%
```

Run 7: Report of FillP — Data Link

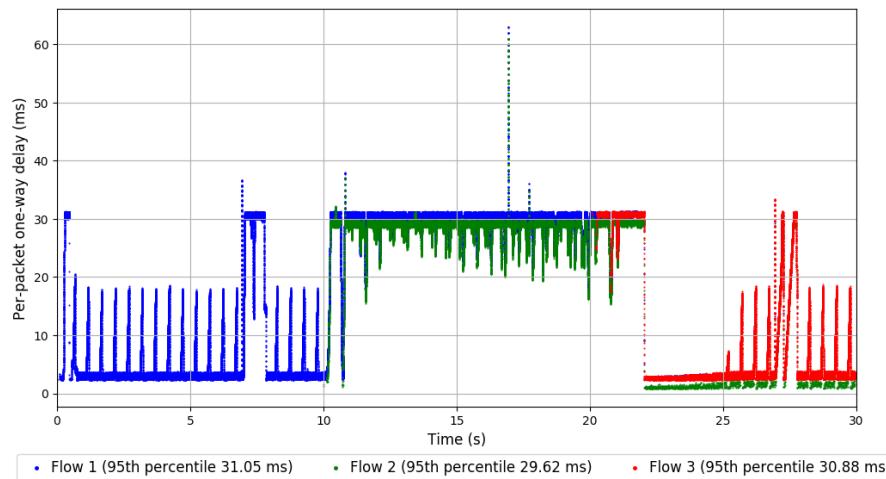
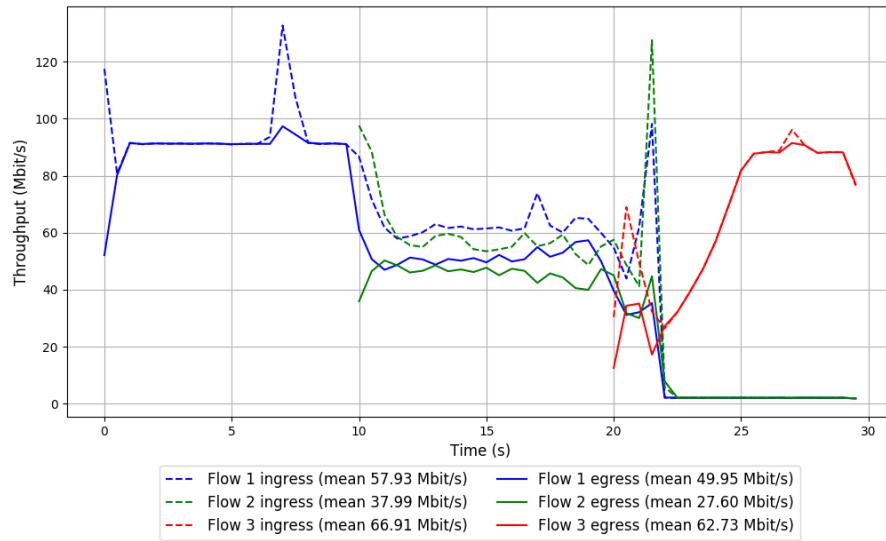


Run 8: Statistics of FillP

```
Start at: 2018-04-24 22:42:33
End at: 2018-04-24 22:43:03
Local clock offset: -5.309 ms
Remote clock offset: -5.144 ms

# Below is generated by plot.py at 2018-04-25 00:09:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.04 Mbit/s
95th percentile per-packet one-way delay: 30.978 ms
Loss rate: 15.51%
-- Flow 1:
Average throughput: 49.95 Mbit/s
95th percentile per-packet one-way delay: 31.045 ms
Loss rate: 13.77%
-- Flow 2:
Average throughput: 27.60 Mbit/s
95th percentile per-packet one-way delay: 29.624 ms
Loss rate: 27.36%
-- Flow 3:
Average throughput: 62.73 Mbit/s
95th percentile per-packet one-way delay: 30.884 ms
Loss rate: 6.51%
```

Run 8: Report of FillP — Data Link

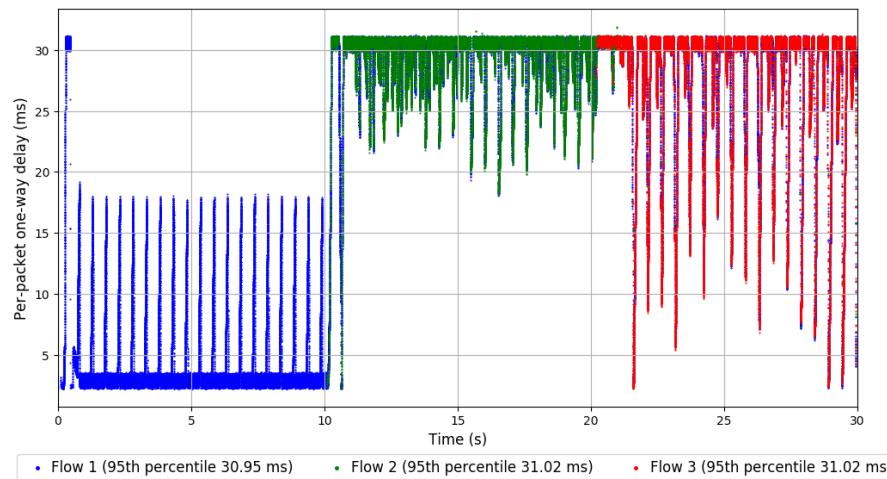
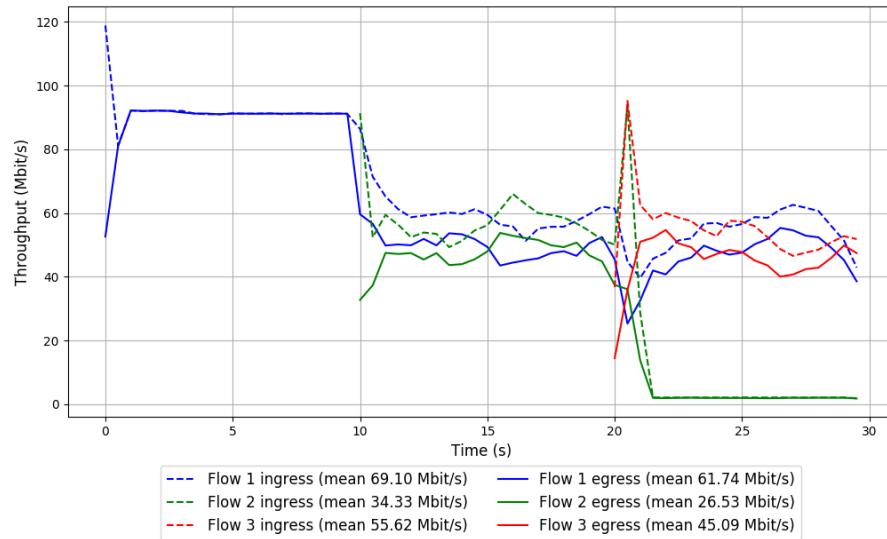


Run 9: Statistics of FillP

```
Start at: 2018-04-24 23:01:44
End at: 2018-04-24 23:02:14
Local clock offset: -4.872 ms
Remote clock offset: -6.487 ms

# Below is generated by plot.py at 2018-04-25 00:09:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.34 Mbit/s
95th percentile per-packet one-way delay: 30.985 ms
Loss rate: 14.55%
-- Flow 1:
Average throughput: 61.74 Mbit/s
95th percentile per-packet one-way delay: 30.946 ms
Loss rate: 10.65%
-- Flow 2:
Average throughput: 26.53 Mbit/s
95th percentile per-packet one-way delay: 31.020 ms
Loss rate: 22.69%
-- Flow 3:
Average throughput: 45.09 Mbit/s
95th percentile per-packet one-way delay: 31.019 ms
Loss rate: 19.08%
```

Run 9: Report of FillP — Data Link

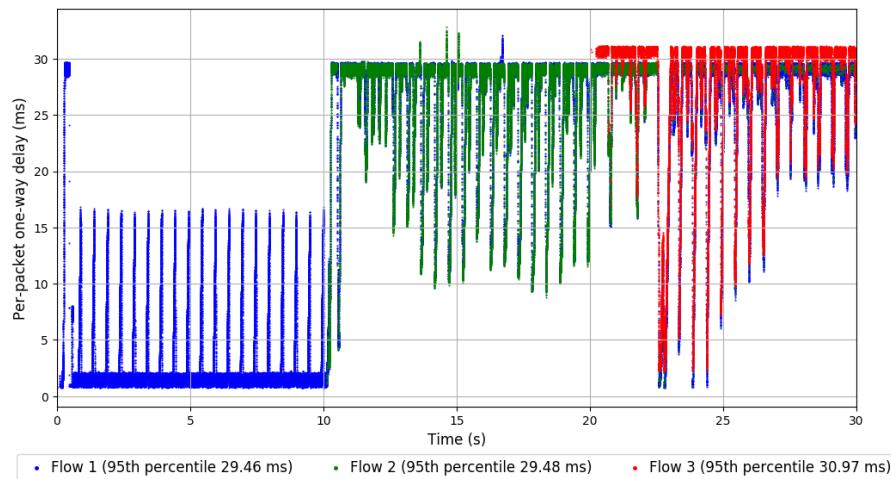
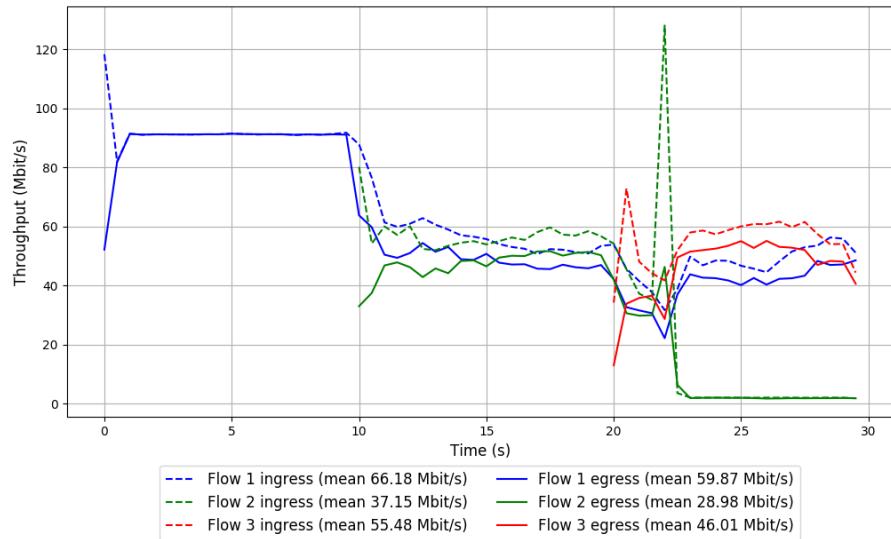


Run 10: Statistics of FillP

```
Start at: 2018-04-24 23:20:56
End at: 2018-04-24 23:21:26
Local clock offset: -4.77 ms
Remote clock offset: -6.685 ms

# Below is generated by plot.py at 2018-04-25 00:09:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.39 Mbit/s
95th percentile per-packet one-way delay: 30.646 ms
Loss rate: 13.56%
-- Flow 1:
Average throughput: 59.87 Mbit/s
95th percentile per-packet one-way delay: 29.459 ms
Loss rate: 9.46%
-- Flow 2:
Average throughput: 28.98 Mbit/s
95th percentile per-packet one-way delay: 29.481 ms
Loss rate: 21.90%
-- Flow 3:
Average throughput: 46.01 Mbit/s
95th percentile per-packet one-way delay: 30.968 ms
Loss rate: 17.12%
```

Run 10: Report of FillP — Data Link

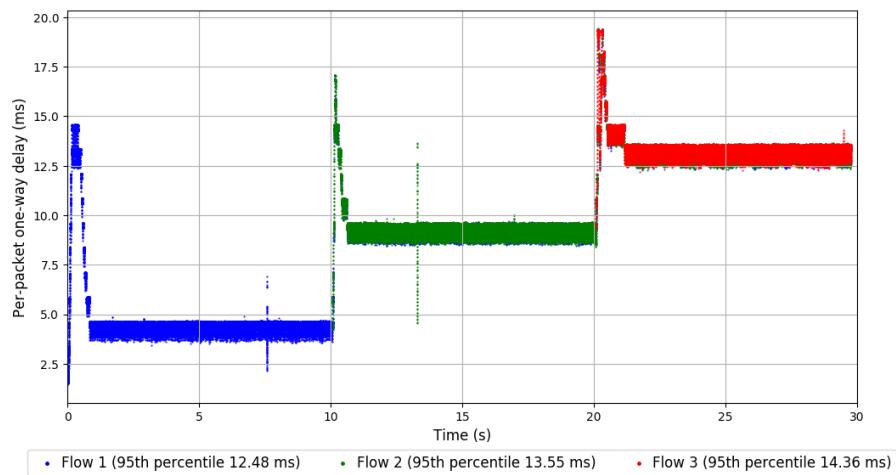
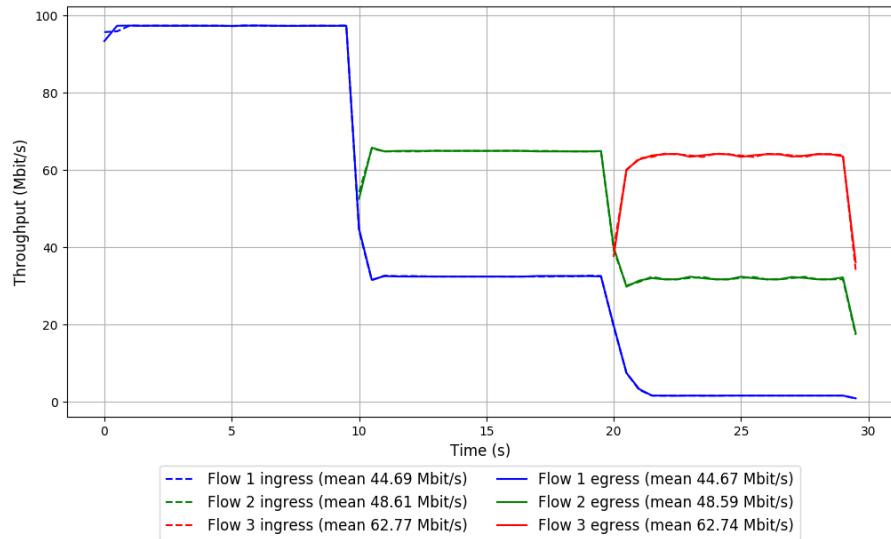


Run 1: Statistics of Indigo-1-32

```
Start at: 2018-04-24 20:27:03
End at: 2018-04-24 20:27:33
Local clock offset: -4.297 ms
Remote clock offset: -7.783 ms

# Below is generated by plot.py at 2018-04-25 00:09:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.27 Mbit/s
95th percentile per-packet one-way delay: 13.557 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.67 Mbit/s
95th percentile per-packet one-way delay: 12.484 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 48.59 Mbit/s
95th percentile per-packet one-way delay: 13.546 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 62.74 Mbit/s
95th percentile per-packet one-way delay: 14.361 ms
Loss rate: 0.00%
```

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

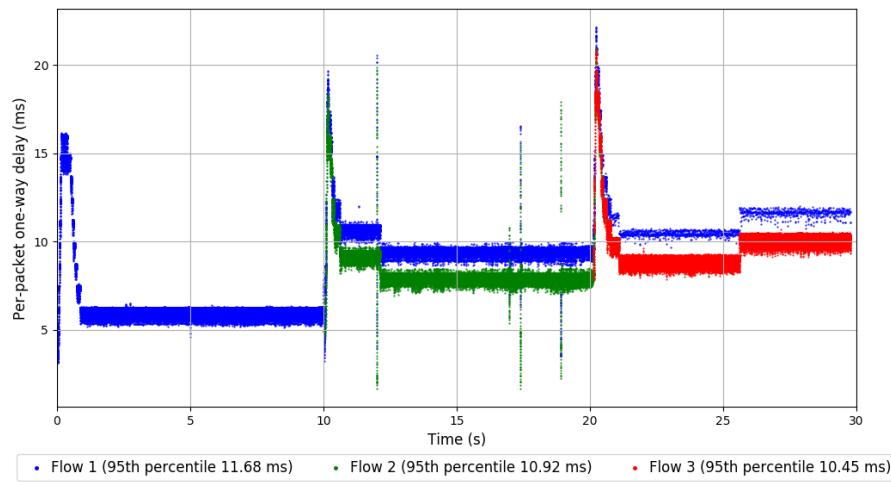
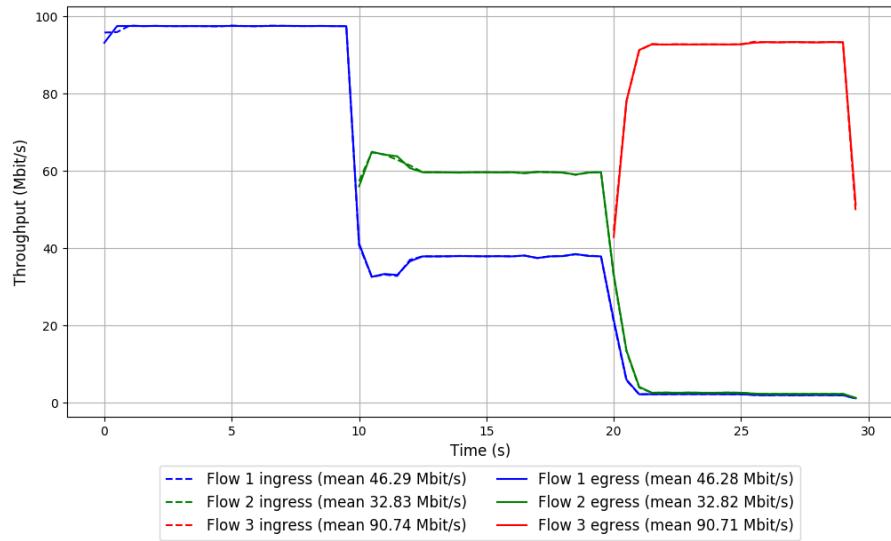


Run 2: Statistics of Indigo-1-32

```
Start at: 2018-04-24 20:46:15
End at: 2018-04-24 20:46:45
Local clock offset: -5.79 ms
Remote clock offset: -8.194 ms

# Below is generated by plot.py at 2018-04-25 00:09:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.43 Mbit/s
95th percentile per-packet one-way delay: 10.958 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 46.28 Mbit/s
95th percentile per-packet one-way delay: 11.679 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 32.82 Mbit/s
95th percentile per-packet one-way delay: 10.918 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 90.71 Mbit/s
95th percentile per-packet one-way delay: 10.445 ms
Loss rate: 0.00%
```

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

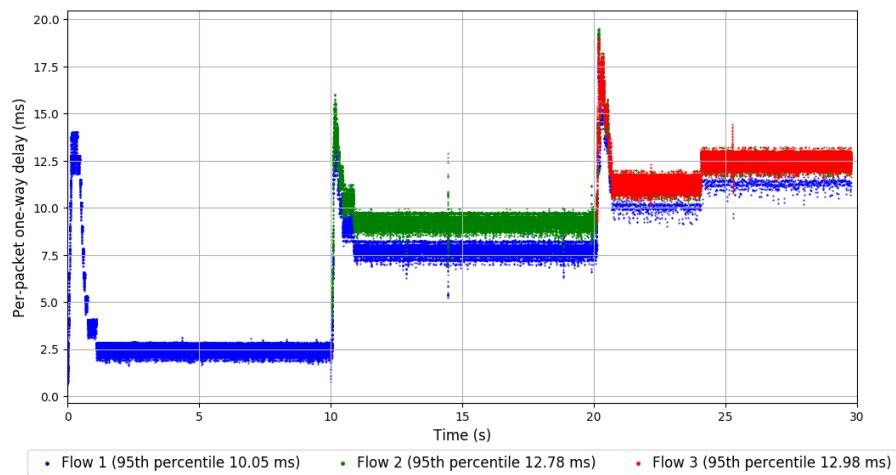
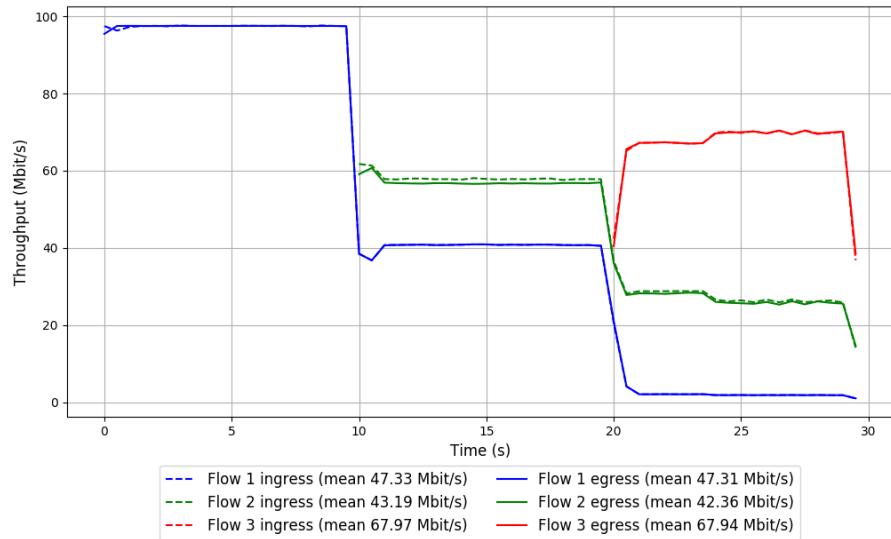


Run 3: Statistics of Indigo-1-32

```
Start at: 2018-04-24 21:05:28
End at: 2018-04-24 21:05:58
Local clock offset: -5.0 ms
Remote clock offset: -6.0 ms

# Below is generated by plot.py at 2018-04-25 00:09:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: 12.778 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 47.31 Mbit/s
95th percentile per-packet one-way delay: 10.055 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 42.36 Mbit/s
95th percentile per-packet one-way delay: 12.778 ms
Loss rate: 1.87%
-- Flow 3:
Average throughput: 67.94 Mbit/s
95th percentile per-packet one-way delay: 12.982 ms
Loss rate: 0.00%
```

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

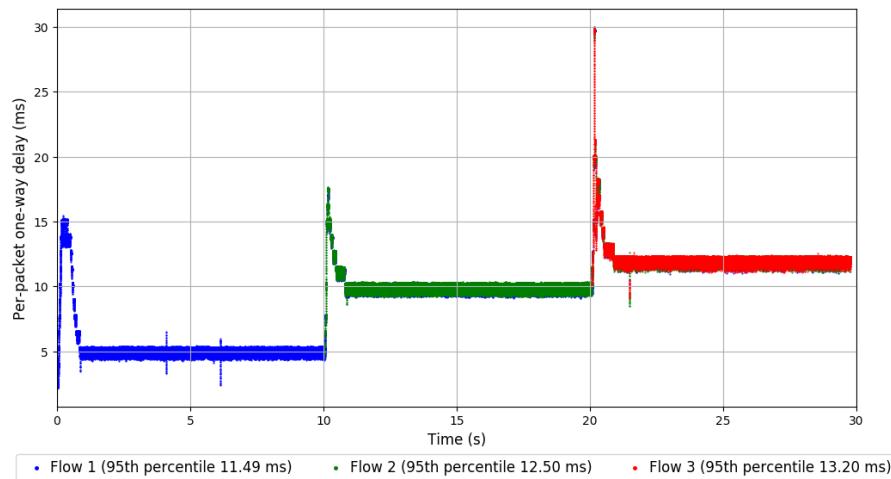
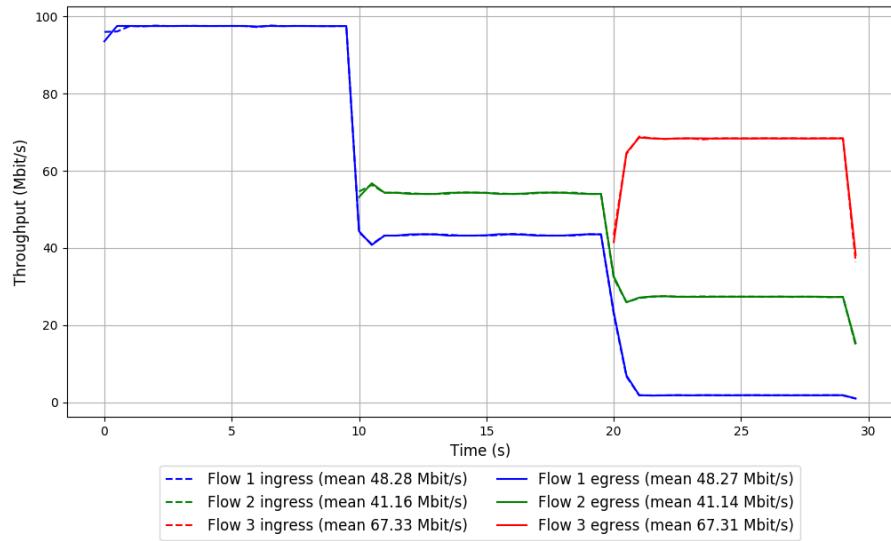


Run 4: Statistics of Indigo-1-32

```
Start at: 2018-04-24 21:24:40
End at: 2018-04-24 21:25:10
Local clock offset: -4.784 ms
Remote clock offset: -4.847 ms

# Below is generated by plot.py at 2018-04-25 00:10:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 12.469 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.27 Mbit/s
95th percentile per-packet one-way delay: 11.492 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.14 Mbit/s
95th percentile per-packet one-way delay: 12.500 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 67.31 Mbit/s
95th percentile per-packet one-way delay: 13.196 ms
Loss rate: 0.00%
```

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

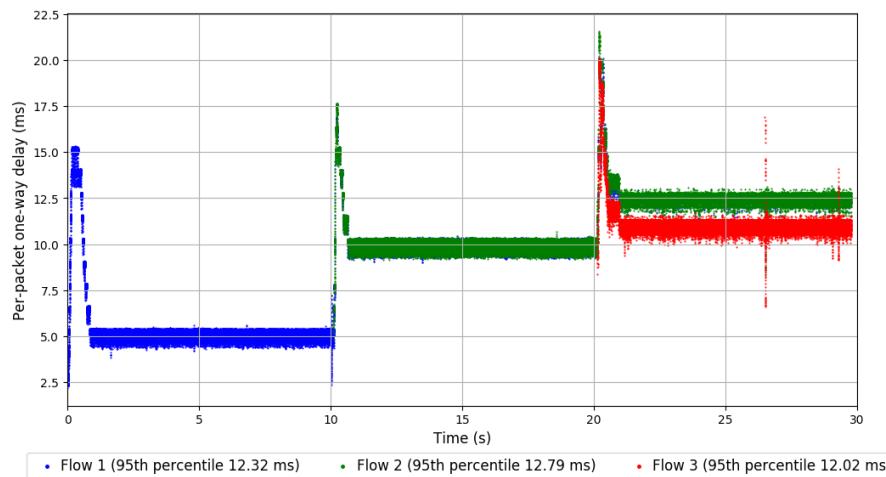
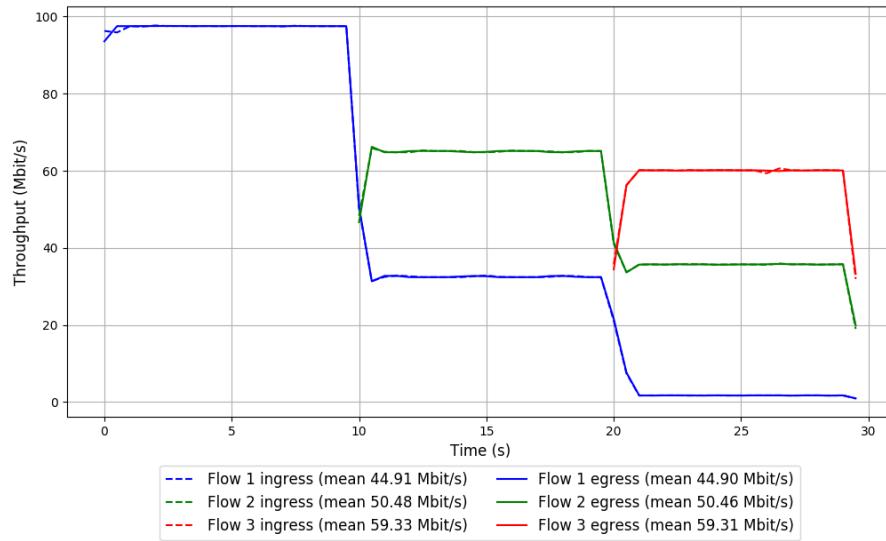


Run 5: Statistics of Indigo-1-32

```
Start at: 2018-04-24 21:43:50
End at: 2018-04-24 21:44:20
Local clock offset: -5.011 ms
Remote clock offset: -4.689 ms

# Below is generated by plot.py at 2018-04-25 00:11:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 12.672 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.90 Mbit/s
95th percentile per-packet one-way delay: 12.324 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 50.46 Mbit/s
95th percentile per-packet one-way delay: 12.791 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 59.31 Mbit/s
95th percentile per-packet one-way delay: 12.021 ms
Loss rate: 0.00%
```

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

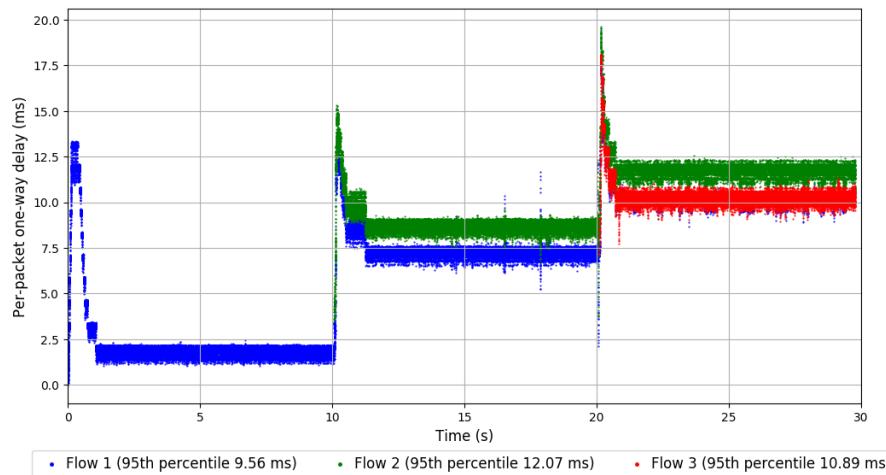
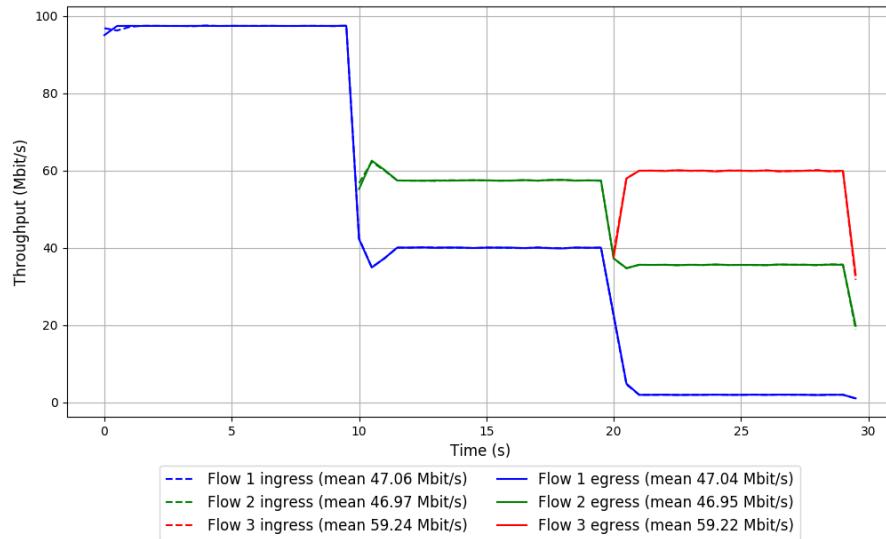


Run 6: Statistics of Indigo-1-32

```
Start at: 2018-04-24 22:03:00
End at: 2018-04-24 22:03:30
Local clock offset: -4.477 ms
Remote clock offset: -4.358 ms

# Below is generated by plot.py at 2018-04-25 00:11:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.34 Mbit/s
95th percentile per-packet one-way delay: 11.993 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.04 Mbit/s
95th percentile per-packet one-way delay: 9.564 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.95 Mbit/s
95th percentile per-packet one-way delay: 12.074 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 59.22 Mbit/s
95th percentile per-packet one-way delay: 10.894 ms
Loss rate: 0.00%
```

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

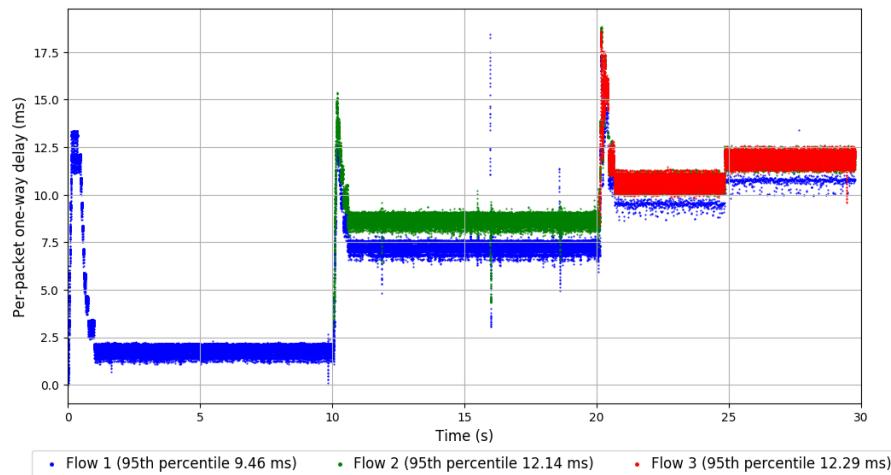
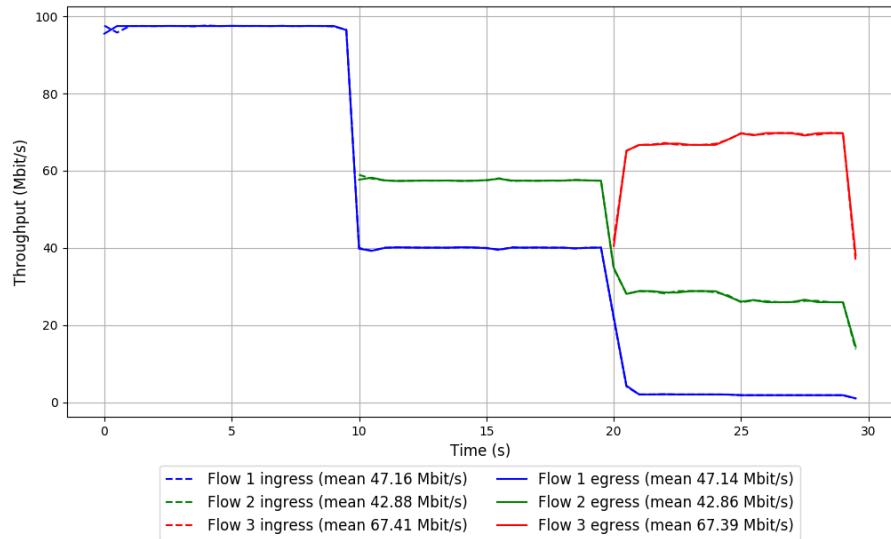


Run 7: Statistics of Indigo-1-32

```
Start at: 2018-04-24 22:22:12
End at: 2018-04-24 22:22:42
Local clock offset: -4.536 ms
Remote clock offset: -3.996 ms

# Below is generated by plot.py at 2018-04-25 00:11:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.44 Mbit/s
95th percentile per-packet one-way delay: 12.143 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.14 Mbit/s
95th percentile per-packet one-way delay: 9.459 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 42.86 Mbit/s
95th percentile per-packet one-way delay: 12.137 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 67.39 Mbit/s
95th percentile per-packet one-way delay: 12.295 ms
Loss rate: 0.00%
```

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

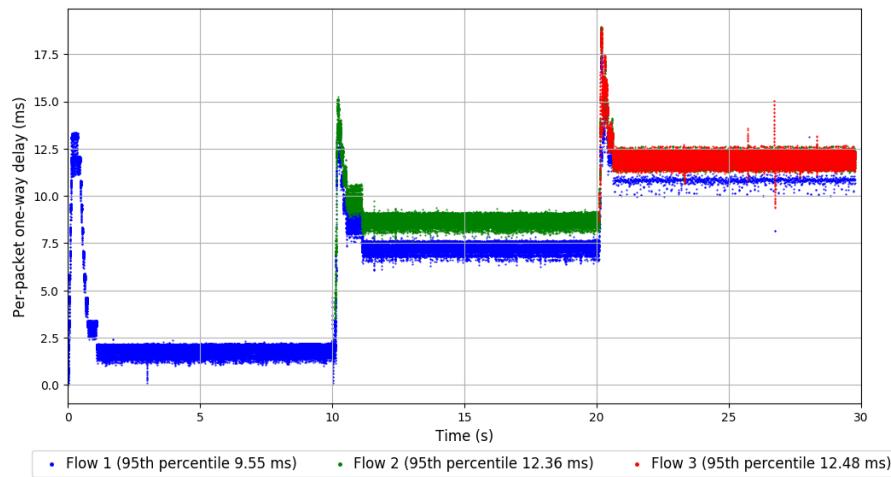
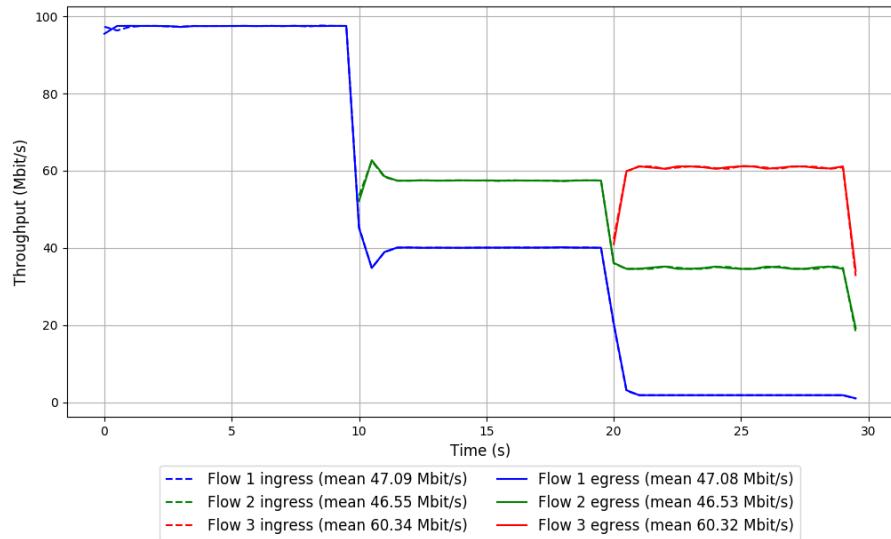


Run 8: Statistics of Indigo-1-32

```
Start at: 2018-04-24 22:41:23
End at: 2018-04-24 22:41:53
Local clock offset: -4.559 ms
Remote clock offset: -5.042 ms

# Below is generated by plot.py at 2018-04-25 00:11:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.44 Mbit/s
95th percentile per-packet one-way delay: 12.332 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.08 Mbit/s
95th percentile per-packet one-way delay: 9.552 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.53 Mbit/s
95th percentile per-packet one-way delay: 12.355 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 60.32 Mbit/s
95th percentile per-packet one-way delay: 12.483 ms
Loss rate: 0.00%
```

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

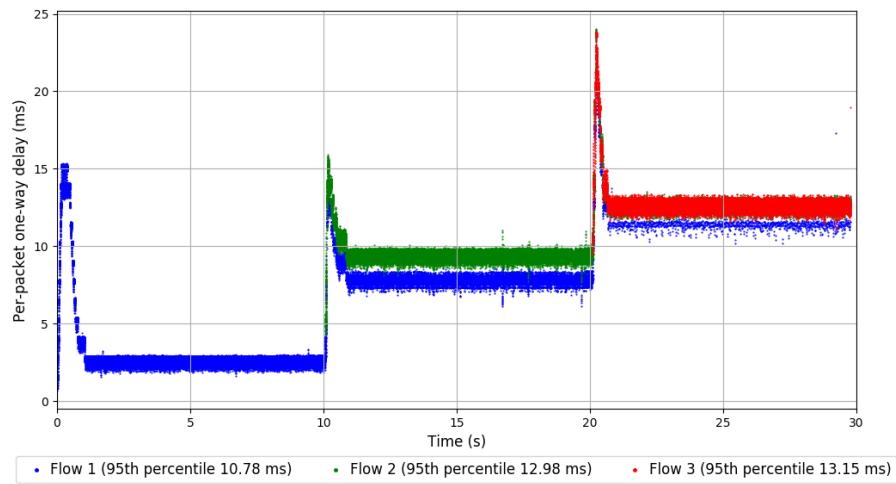
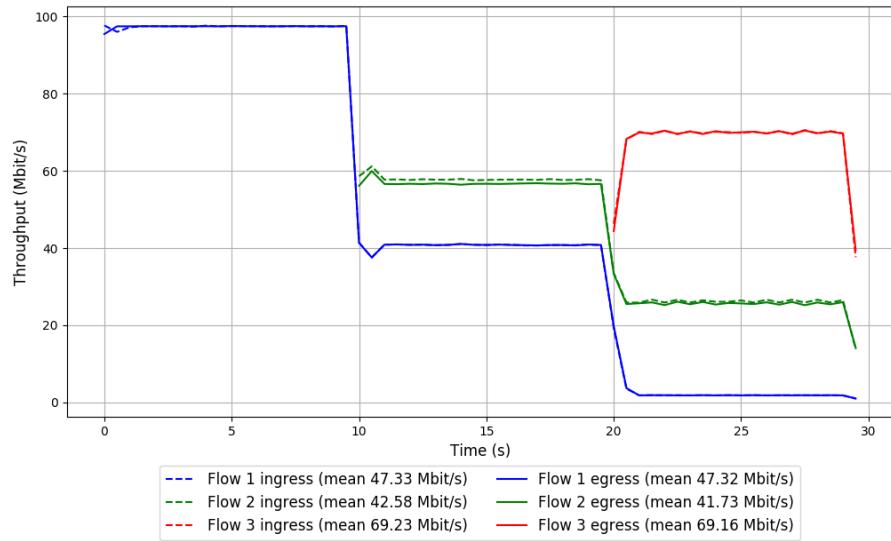


Run 9: Statistics of Indigo-1-32

```
Start at: 2018-04-24 23:00:34
End at: 2018-04-24 23:01:04
Local clock offset: -4.899 ms
Remote clock offset: -6.462 ms

# Below is generated by plot.py at 2018-04-25 00:11:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.43 Mbit/s
95th percentile per-packet one-way delay: 13.021 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 47.32 Mbit/s
95th percentile per-packet one-way delay: 10.775 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.73 Mbit/s
95th percentile per-packet one-way delay: 12.982 ms
Loss rate: 1.95%
-- Flow 3:
Average throughput: 69.16 Mbit/s
95th percentile per-packet one-way delay: 13.154 ms
Loss rate: 0.00%
```

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

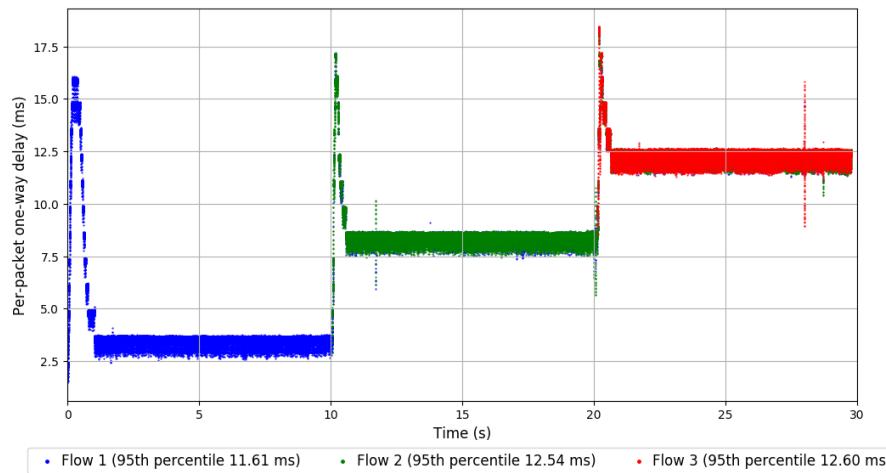
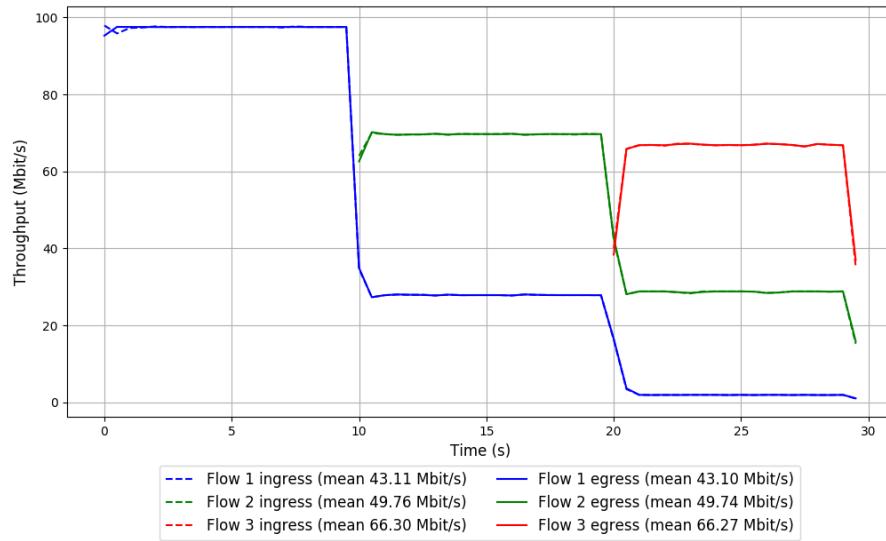


Run 10: Statistics of Indigo-1-32

```
Start at: 2018-04-24 23:19:47
End at: 2018-04-24 23:20:17
Local clock offset: -5.555 ms
Remote clock offset: -6.666 ms

# Below is generated by plot.py at 2018-04-25 00:11:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: 12.571 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 43.10 Mbit/s
95th percentile per-packet one-way delay: 11.608 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 49.74 Mbit/s
95th percentile per-packet one-way delay: 12.541 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 66.27 Mbit/s
95th percentile per-packet one-way delay: 12.604 ms
Loss rate: 0.00%
```

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

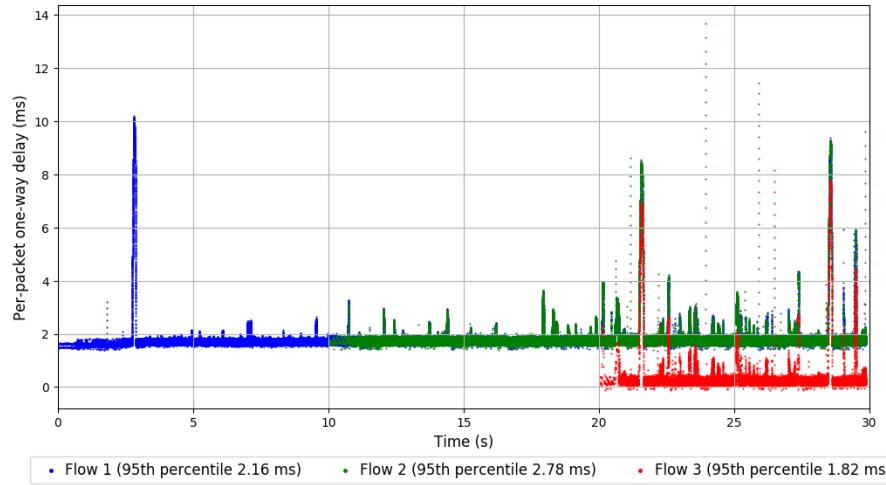
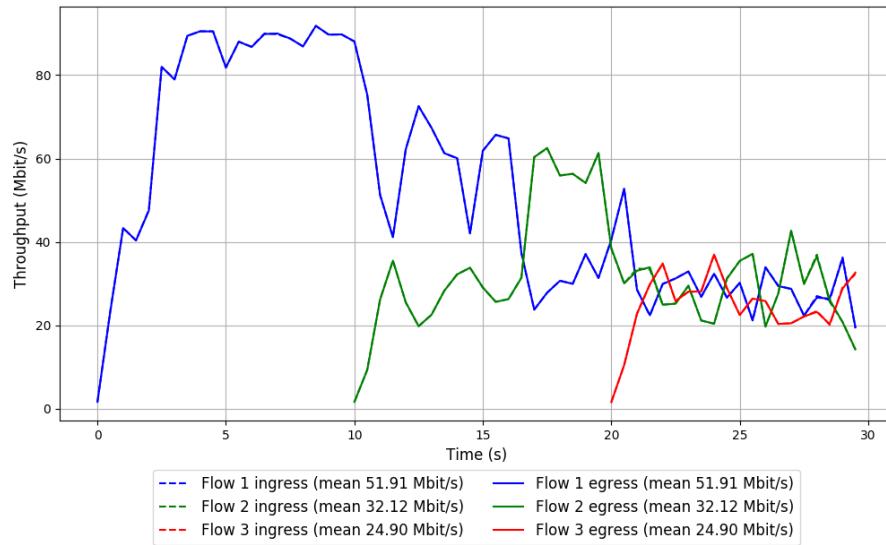


```
Run 1: Statistics of PCC-Vivace

Start at: 2018-04-24 20:12:29
End at: 2018-04-24 20:12:59
Local clock offset: -4.214 ms
Remote clock offset: -7.406 ms

# Below is generated by plot.py at 2018-04-25 00:11:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.47 Mbit/s
95th percentile per-packet one-way delay: 2.313 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 51.91 Mbit/s
95th percentile per-packet one-way delay: 2.163 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 32.12 Mbit/s
95th percentile per-packet one-way delay: 2.784 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.90 Mbit/s
95th percentile per-packet one-way delay: 1.817 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Vivace — Data Link

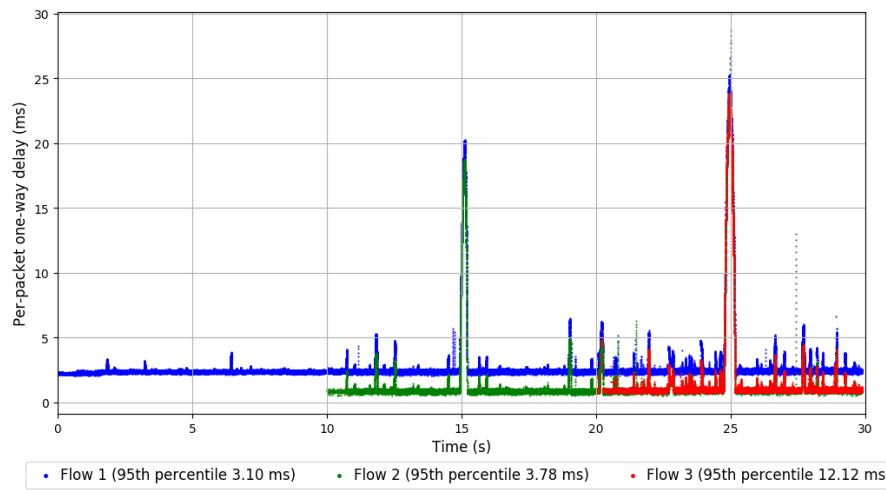
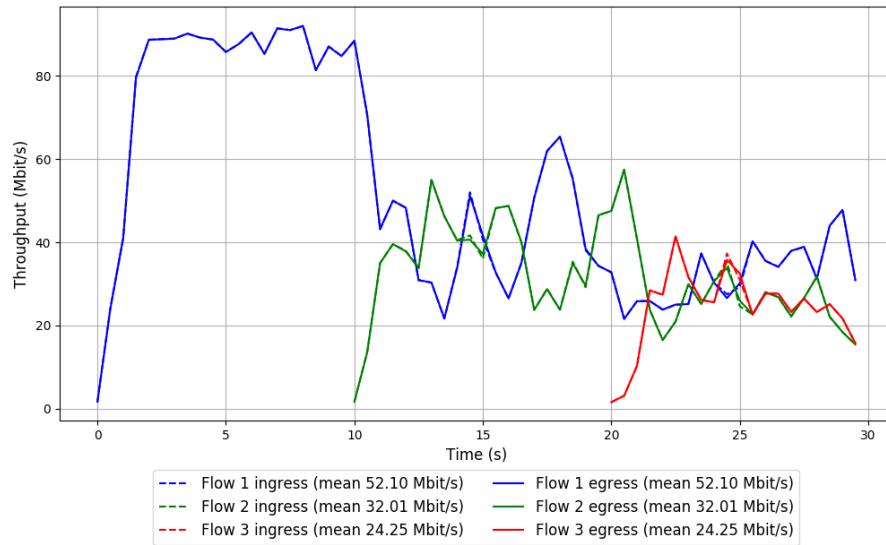


Run 2: Statistics of PCC-Vivace

```
Start at: 2018-04-24 20:31:41
End at: 2018-04-24 20:32:11
Local clock offset: -4.991 ms
Remote clock offset: -7.934 ms

# Below is generated by plot.py at 2018-04-25 00:11:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.37 Mbit/s
95th percentile per-packet one-way delay: 3.353 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 52.10 Mbit/s
95th percentile per-packet one-way delay: 3.098 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 32.01 Mbit/s
95th percentile per-packet one-way delay: 3.778 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.25 Mbit/s
95th percentile per-packet one-way delay: 12.123 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Vivace — Data Link

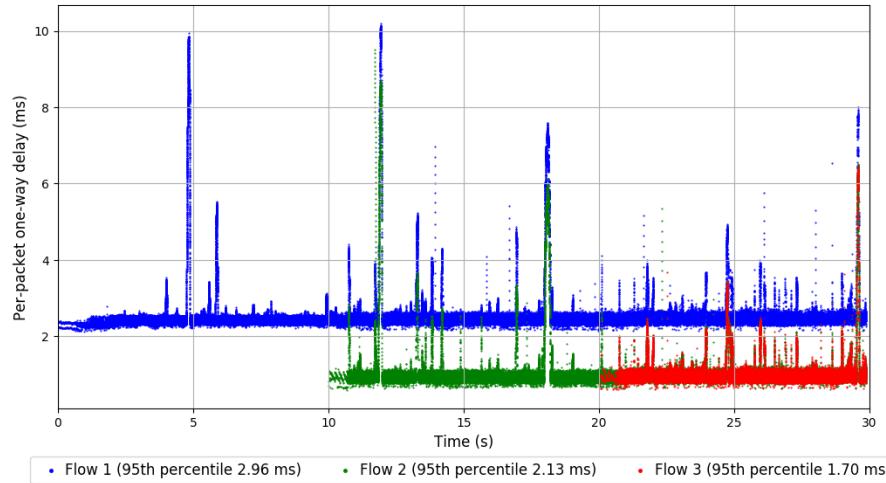
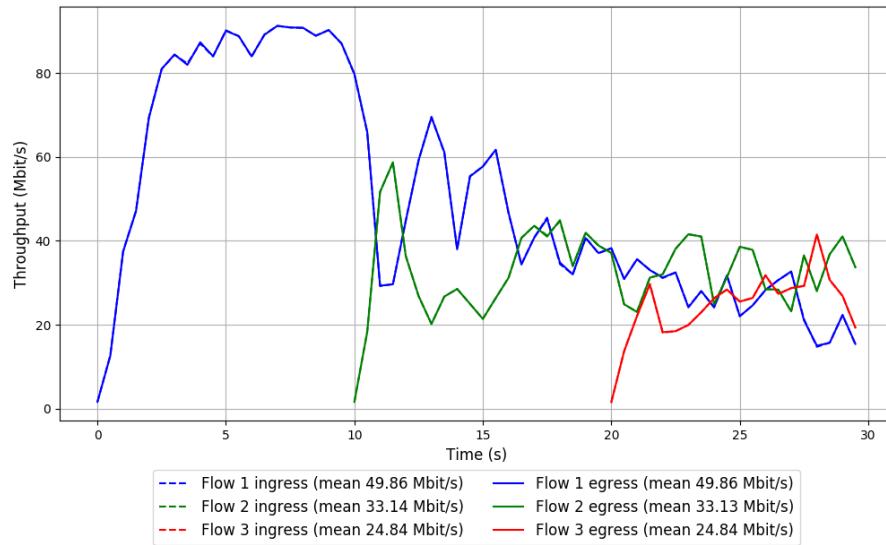


Run 3: Statistics of PCC-Vivace

```
Start at: 2018-04-24 20:50:54
End at: 2018-04-24 20:51:24
Local clock offset: -4.942 ms
Remote clock offset: -8.289 ms

# Below is generated by plot.py at 2018-04-25 00:12:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.08 Mbit/s
95th percentile per-packet one-way delay: 2.752 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.86 Mbit/s
95th percentile per-packet one-way delay: 2.960 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 33.13 Mbit/s
95th percentile per-packet one-way delay: 2.132 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.84 Mbit/s
95th percentile per-packet one-way delay: 1.699 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Vivace — Data Link

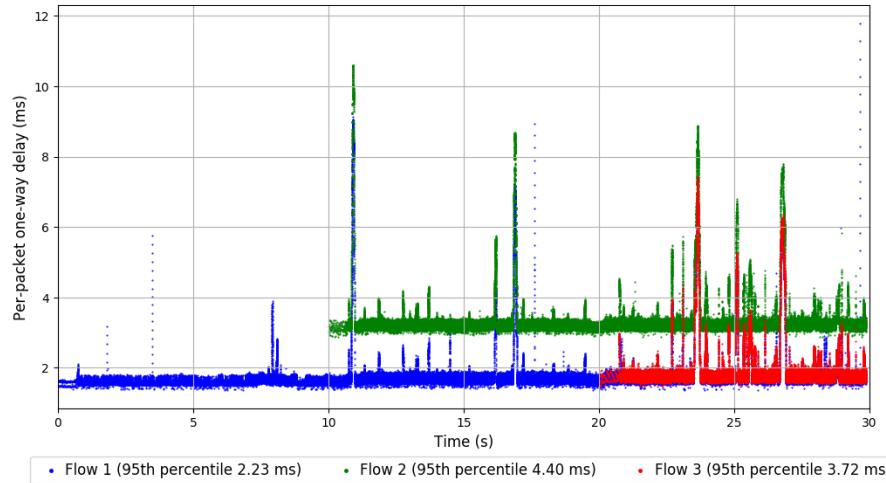
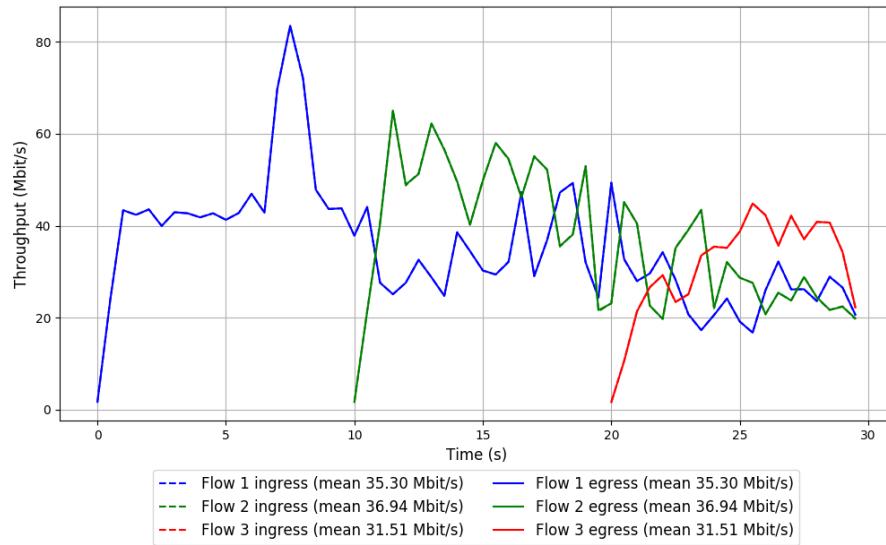


Run 4: Statistics of PCC-Vivace

```
Start at: 2018-04-24 21:10:07
End at: 2018-04-24 21:10:37
Local clock offset: -5.677 ms
Remote clock offset: -5.529 ms

# Below is generated by plot.py at 2018-04-25 00:12:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.25 Mbit/s
95th percentile per-packet one-way delay: 3.695 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 35.30 Mbit/s
95th percentile per-packet one-way delay: 2.228 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 36.94 Mbit/s
95th percentile per-packet one-way delay: 4.396 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 31.51 Mbit/s
95th percentile per-packet one-way delay: 3.724 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Vivace — Data Link

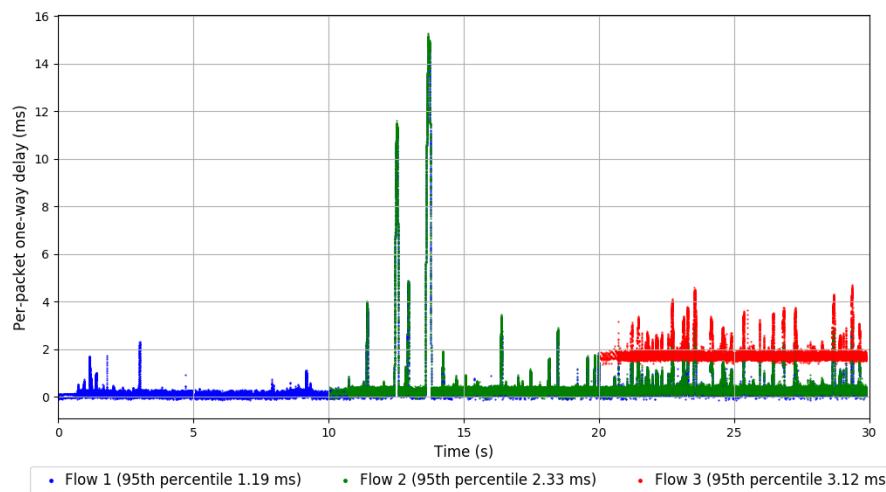
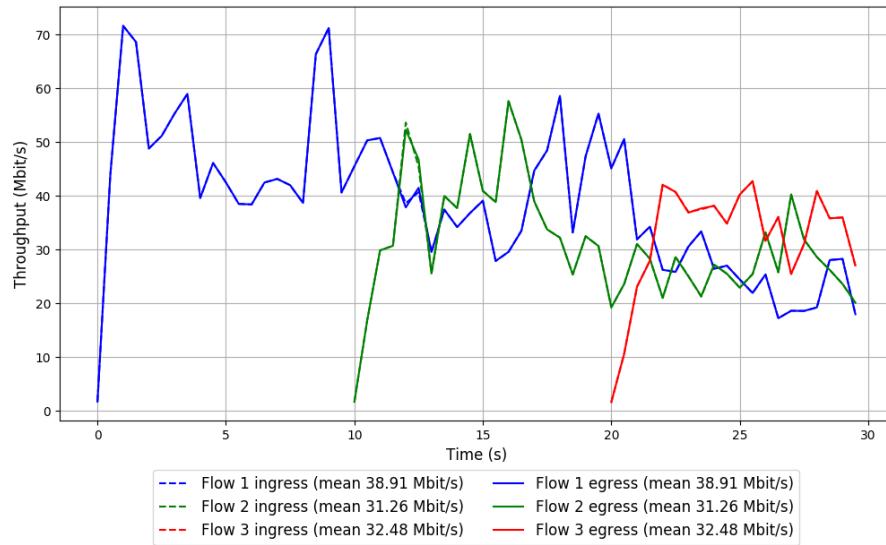


Run 5: Statistics of PCC-Vivace

```
Start at: 2018-04-24 21:29:18
End at: 2018-04-24 21:29:48
Local clock offset: -4.069 ms
Remote clock offset: -4.779 ms

# Below is generated by plot.py at 2018-04-25 00:12:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.40 Mbit/s
95th percentile per-packet one-way delay: 2.201 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 38.91 Mbit/s
95th percentile per-packet one-way delay: 1.189 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 31.26 Mbit/s
95th percentile per-packet one-way delay: 2.326 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 32.48 Mbit/s
95th percentile per-packet one-way delay: 3.121 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Vivace — Data Link

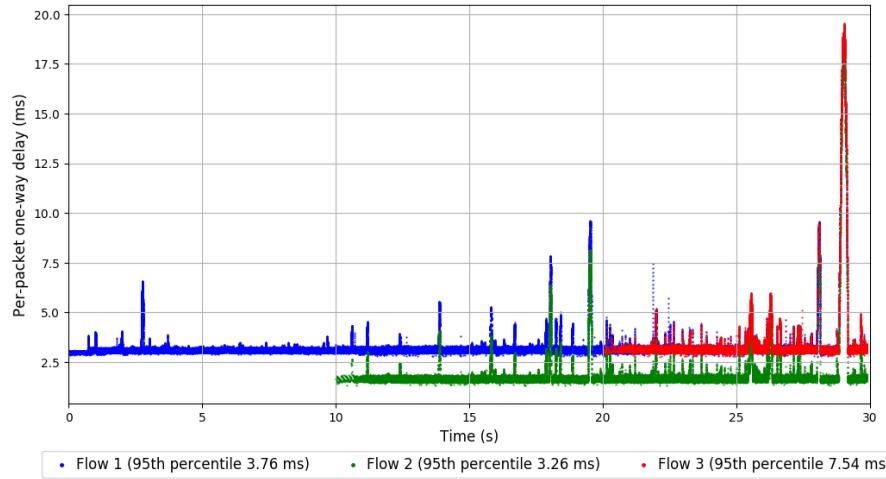
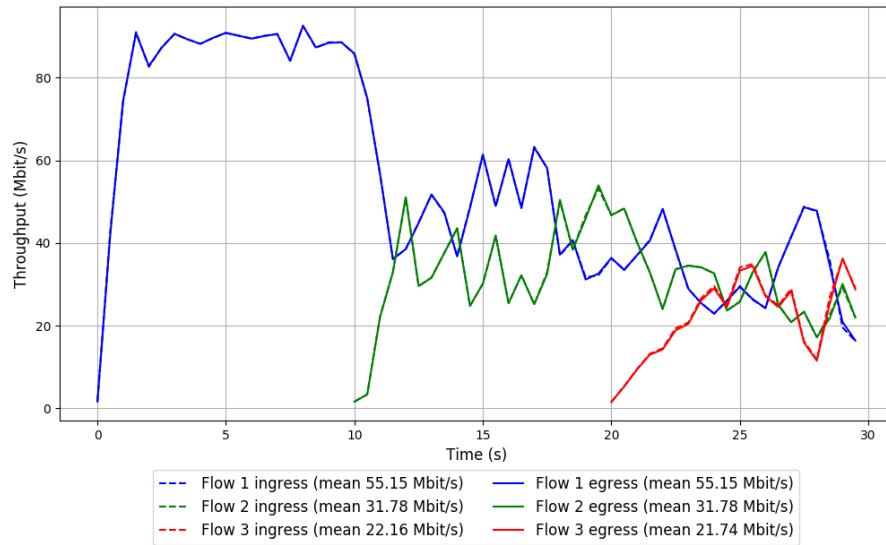


Run 6: Statistics of PCC-Vivace

```
Start at: 2018-04-24 21:48:26
End at: 2018-04-24 21:48:56
Local clock offset: -5.827 ms
Remote clock offset: -4.683 ms

# Below is generated by plot.py at 2018-04-25 00:12:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.45 Mbit/s
95th percentile per-packet one-way delay: 3.892 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 55.15 Mbit/s
95th percentile per-packet one-way delay: 3.764 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 31.78 Mbit/s
95th percentile per-packet one-way delay: 3.260 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 21.74 Mbit/s
95th percentile per-packet one-way delay: 7.540 ms
Loss rate: 1.86%
```

Run 6: Report of PCC-Vivace — Data Link

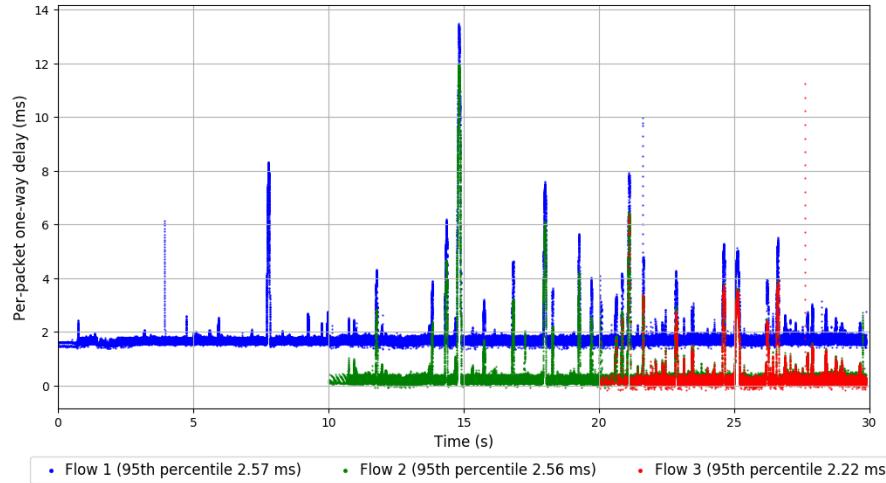
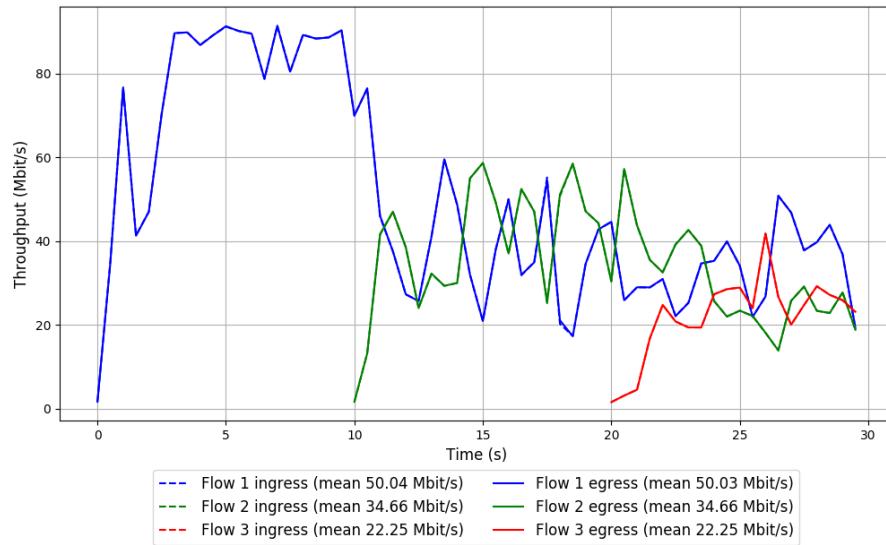


Run 7: Statistics of PCC-Vivace

```
Start at: 2018-04-24 22:07:38
End at: 2018-04-24 22:08:08
Local clock offset: -4.509 ms
Remote clock offset: -4.279 ms

# Below is generated by plot.py at 2018-04-25 00:12:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.40 Mbit/s
95th percentile per-packet one-way delay: 2.540 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.03 Mbit/s
95th percentile per-packet one-way delay: 2.567 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 34.66 Mbit/s
95th percentile per-packet one-way delay: 2.565 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 22.25 Mbit/s
95th percentile per-packet one-way delay: 2.219 ms
Loss rate: 0.00%
```

Run 7: Report of PCC-Vivace — Data Link

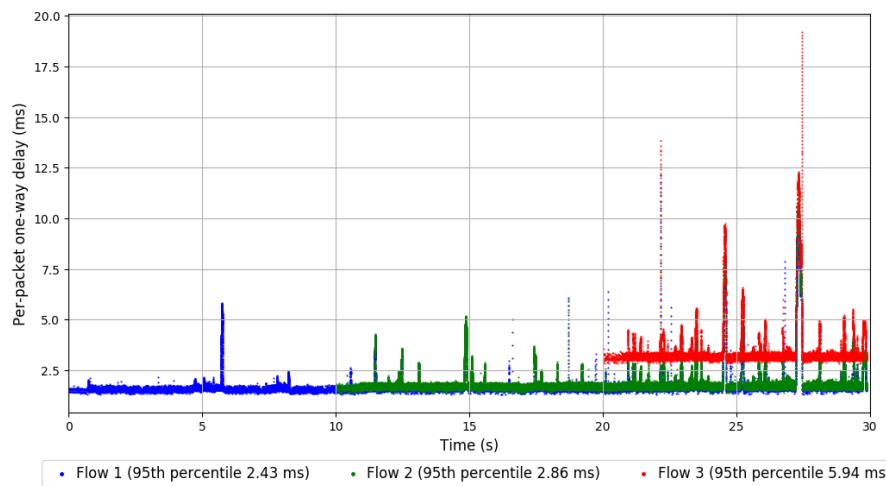
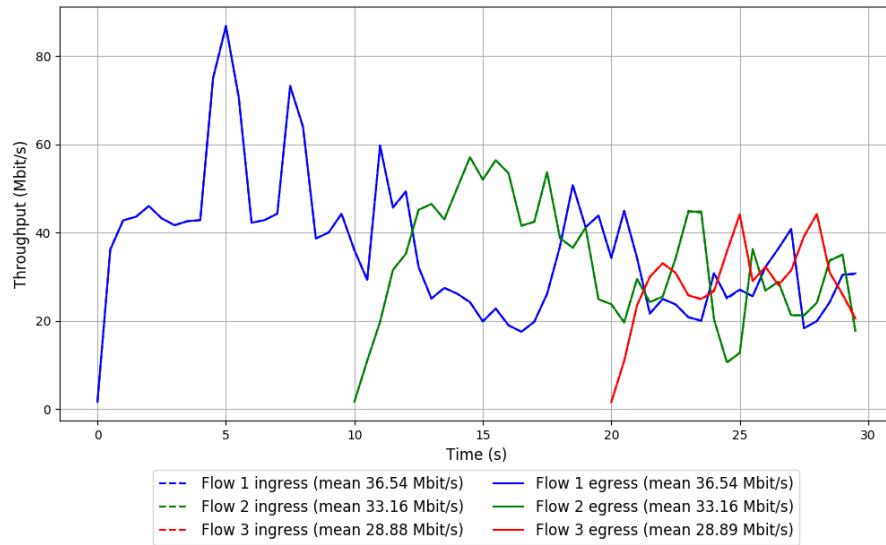


Run 8: Statistics of PCC-Vivace

```
Start at: 2018-04-24 22:26:50
End at: 2018-04-24 22:27:20
Local clock offset: -6.068 ms
Remote clock offset: -3.965 ms

# Below is generated by plot.py at 2018-04-25 00:12:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.12 Mbit/s
95th percentile per-packet one-way delay: 3.383 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 36.54 Mbit/s
95th percentile per-packet one-way delay: 2.427 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 33.16 Mbit/s
95th percentile per-packet one-way delay: 2.862 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 28.89 Mbit/s
95th percentile per-packet one-way delay: 5.940 ms
Loss rate: 0.00%
```

Run 8: Report of PCC-Vivace — Data Link

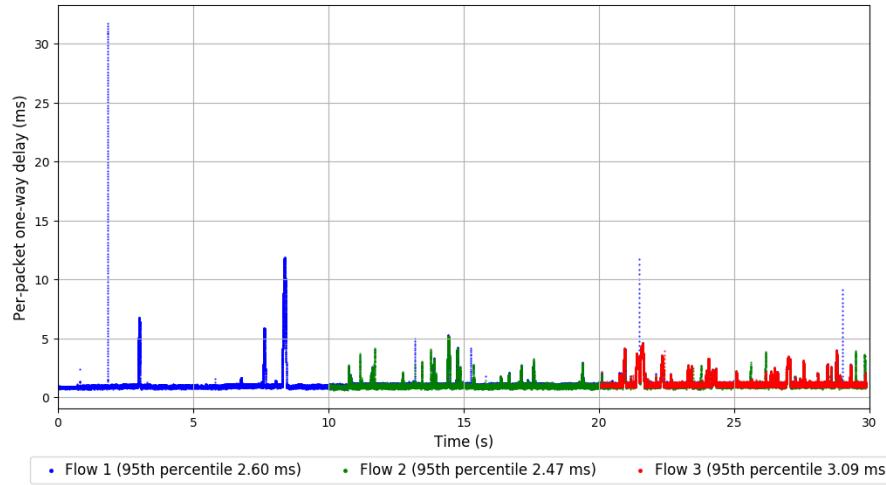
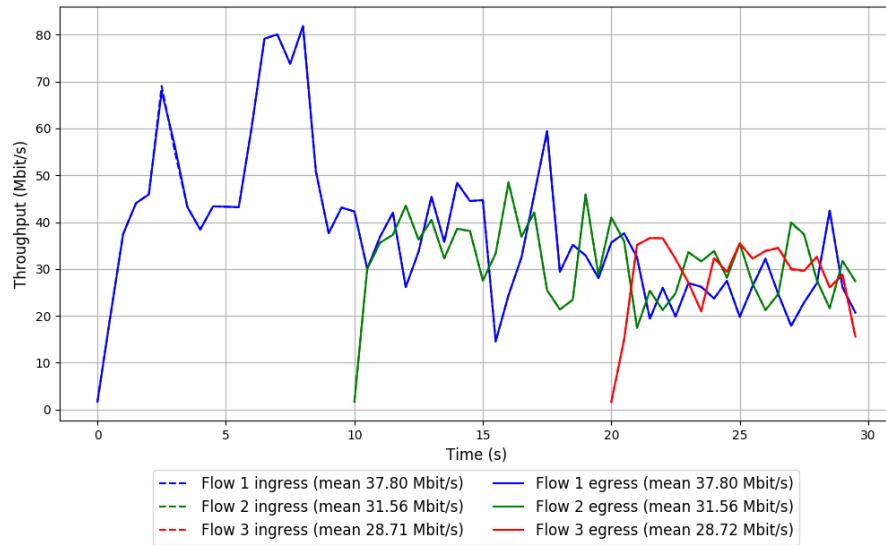


Run 9: Statistics of PCC-Vivace

```
Start at: 2018-04-24 22:46:02
End at: 2018-04-24 22:46:32
Local clock offset: -5.326 ms
Remote clock offset: -5.616 ms

# Below is generated by plot.py at 2018-04-25 00:12:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.25 Mbit/s
95th percentile per-packet one-way delay: 2.662 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 37.80 Mbit/s
95th percentile per-packet one-way delay: 2.605 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 31.56 Mbit/s
95th percentile per-packet one-way delay: 2.467 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 28.72 Mbit/s
95th percentile per-packet one-way delay: 3.088 ms
Loss rate: 0.00%
```

Run 9: Report of PCC-Vivace — Data Link

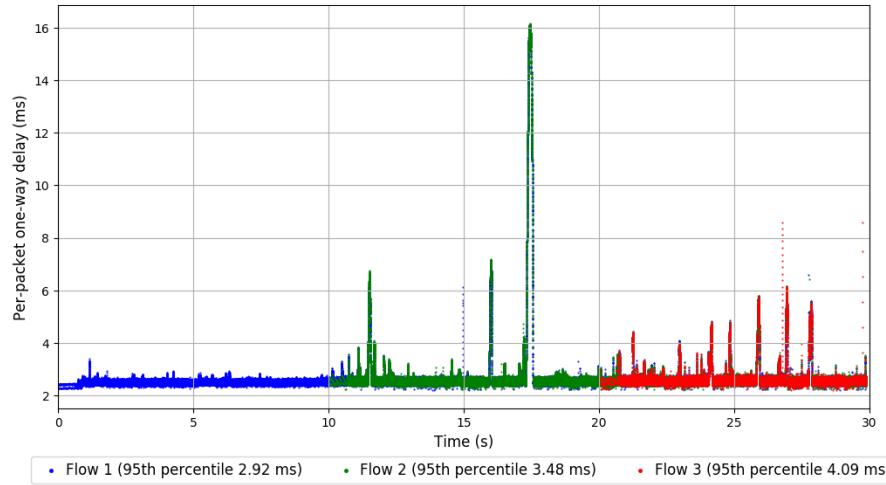
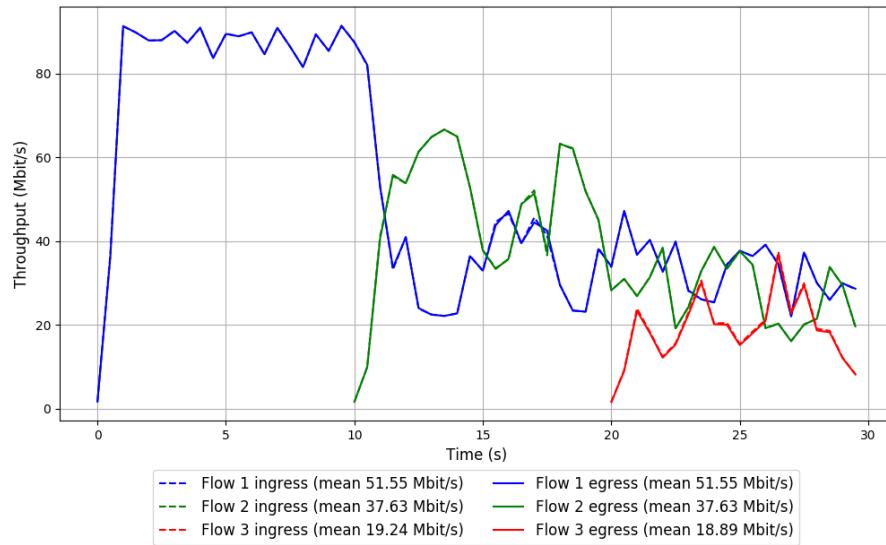


Run 10: Statistics of PCC-Vivace

```
Start at: 2018-04-24 23:05:12
End at: 2018-04-24 23:05:42
Local clock offset: -4.919 ms
Remote clock offset: -6.603 ms

# Below is generated by plot.py at 2018-04-25 00:12:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.79 Mbit/s
95th percentile per-packet one-way delay: 3.181 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 51.55 Mbit/s
95th percentile per-packet one-way delay: 2.915 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.63 Mbit/s
95th percentile per-packet one-way delay: 3.485 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 18.89 Mbit/s
95th percentile per-packet one-way delay: 4.094 ms
Loss rate: 1.77%
```

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-24 20:18:13

End at: 2018-04-24 20:18:43

Local clock offset: -5.828 ms

Remote clock offset: -7.574 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 20:37:25

End at: 2018-04-24 20:37:55

Local clock offset: -5.776 ms

Remote clock offset: -7.997 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 20:56:37
End at: 2018-04-24 20:57:07
Local clock offset: -5.085 ms
Remote clock offset: -7.378 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 21:15:49

End at: 2018-04-24 21:16:19

Local clock offset: -4.83 ms

Remote clock offset: -5.274 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 21:35:01
End at: 2018-04-24 21:35:31
Local clock offset: -5.562 ms
Remote clock offset: -4.851 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 21:54:10
End at: 2018-04-24 21:54:40
Local clock offset: -4.402 ms
Remote clock offset: -4.582 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 22:13:22

End at: 2018-04-24 22:13:52

Local clock offset: -5.359 ms

Remote clock offset: -4.166 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 22:32:33

End at: 2018-04-24 22:33:03

Local clock offset: -5.259 ms

Remote clock offset: -3.787 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 22:51:45

End at: 2018-04-24 22:52:15

Local clock offset: -5.86 ms

Remote clock offset: -6.03 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 23:10:56

End at: 2018-04-24 23:11:26

Local clock offset: -4.9 ms

Remote clock offset: -6.708 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing