

Pantheon Report

Generated at 2018-04-25 02:08:20 (UTC).

Data path: AWS California 2 Ethernet (*local*) → Mexico 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**).

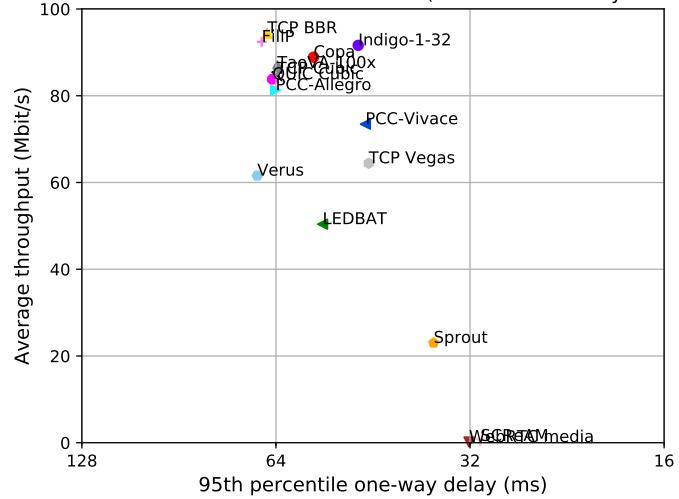
NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

Git summary:

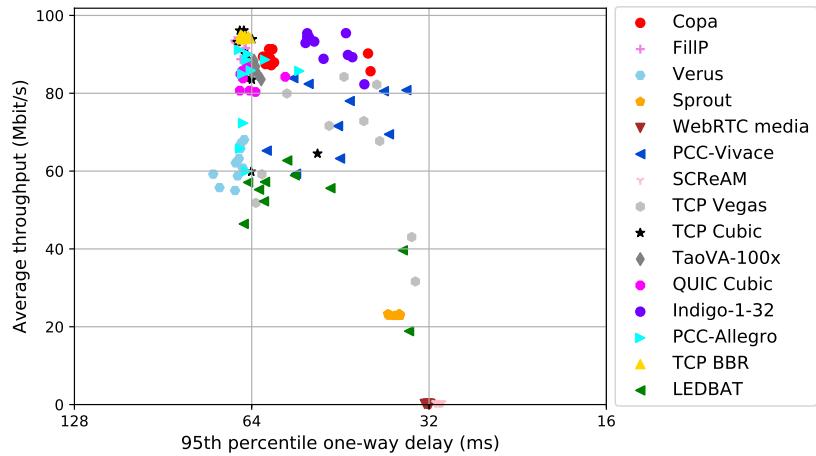
```
branch: master @ 114e807ac1bad7b85168ceb1f8a969063ee6c12c
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo @ 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 California 2 Ethernet to Mexico Ethernet, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS California 2 Ethernet to Mexico 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	60.21	34.94	33.36	64.73	67.05	67.14	4.77	7.91	8.34
TCP Cubic	10	52.28	32.30	34.50	63.02	60.96	61.91	0.68	0.64	0.77
LEDBAT	10	31.37	21.35	14.55	53.42	55.47	50.24	0.22	0.29	0.22
PCC-Allegro	10	63.27	21.80	10.71	63.37	65.13	66.50	2.27	2.86	4.75
QUIC Cubic	10	56.23	31.24	20.85	64.45	65.25	65.20	1.35	0.96	1.02
SCReAM	10	0.20	0.20	0.21	30.64	30.77	30.50	0.03	0.06	0.06
WebRTC media	10	0.06	0.06	0.05	31.87	31.97	32.43	0.01	0.00	0.02
Sprout	10	11.60	11.54	11.35	36.33	36.49	36.49	0.13	0.11	0.09
TaoVA-100x	10	52.06	39.12	25.74	61.44	64.83	66.39	12.08	21.44	18.32
TCP Vegas	10	31.67	30.63	37.27	40.64	45.27	43.16	0.49	0.55	0.54
Verus	10	39.58	25.68	21.41	68.42	66.97	68.31	38.07	29.05	38.59
Copa	10	83.83	5.23	5.28	55.87	53.58	50.60	70.00	64.39	58.43
FillP	10	50.86	42.77	39.63	64.74	68.33	67.92	12.90	21.46	21.70
Indigo-1-32	10	61.73	30.28	30.04	44.94	49.43	52.81	0.41	0.67	0.64
PCC-Vivace	10	51.91	28.08	8.70	43.81	48.30	45.98	0.20	0.28	0.15
PCC-Expr	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

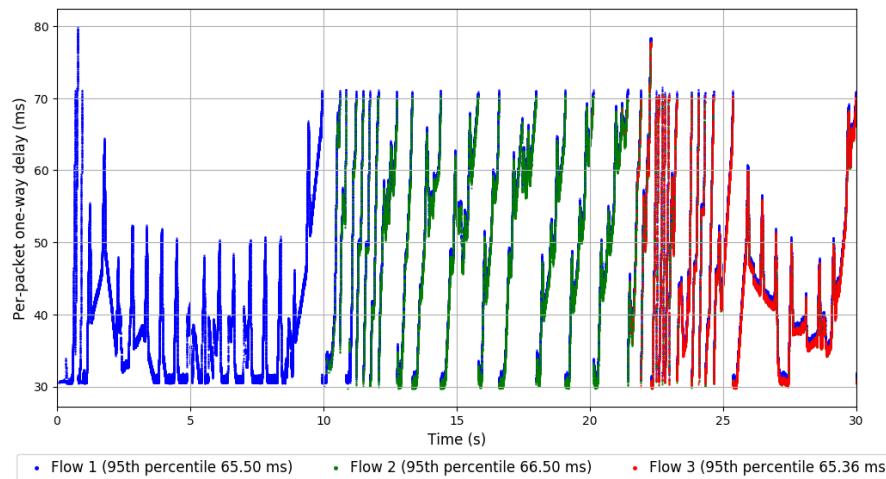
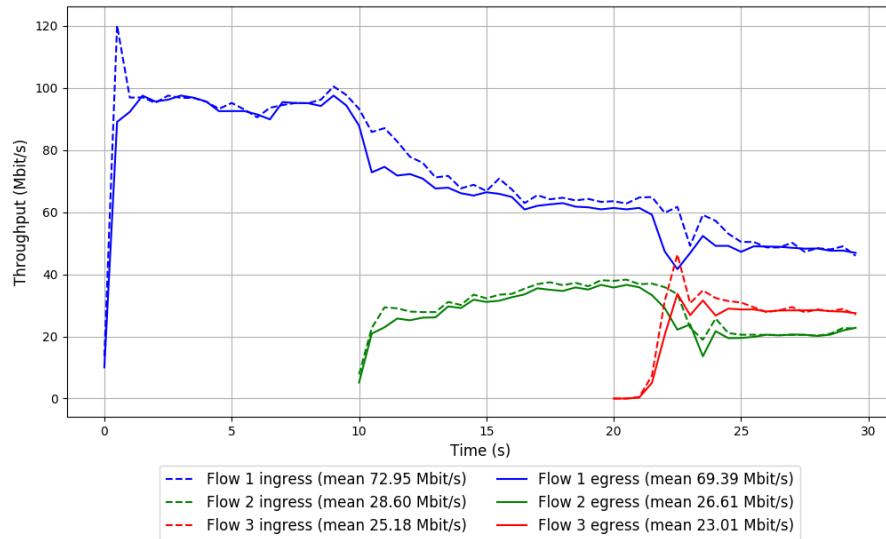
↳

Run 1: Statistics of TCP BBR

```
Start at: 2018-04-24 21:18:06
End at: 2018-04-24 21:18:36
Local clock offset: 1.269 ms
Remote clock offset: -0.224 ms

# Below is generated by plot.py at 2018-04-25 01:40:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.72 Mbit/s
95th percentile per-packet one-way delay: 65.730 ms
Loss rate: 5.62%
-- Flow 1:
Average throughput: 69.39 Mbit/s
95th percentile per-packet one-way delay: 65.499 ms
Loss rate: 4.88%
-- Flow 2:
Average throughput: 26.61 Mbit/s
95th percentile per-packet one-way delay: 66.500 ms
Loss rate: 6.96%
-- Flow 3:
Average throughput: 23.01 Mbit/s
95th percentile per-packet one-way delay: 65.365 ms
Loss rate: 8.98%
```

Run 1: Report of TCP BBR — Data Link

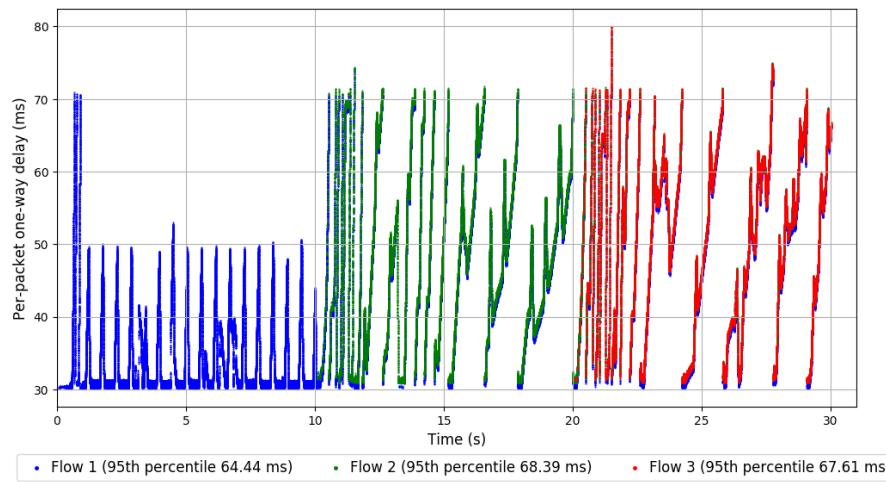
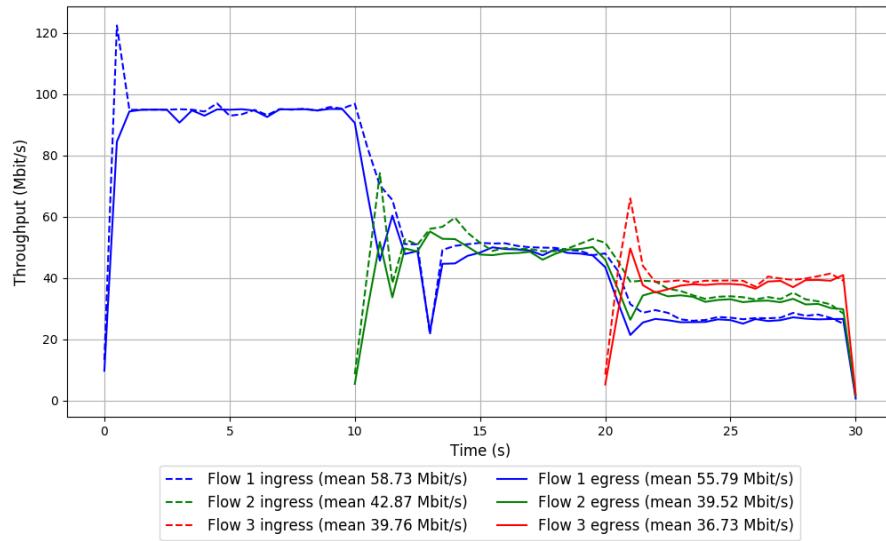


Run 2: Statistics of TCP BBR

```
Start at: 2018-04-24 21:43:20
End at: 2018-04-24 21:43:50
Local clock offset: 0.813 ms
Remote clock offset: -0.164 ms

# Below is generated by plot.py at 2018-04-25 01:40:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.32 Mbit/s
95th percentile per-packet one-way delay: 66.419 ms
Loss rate: 6.02%
-- Flow 1:
Average throughput: 55.79 Mbit/s
95th percentile per-packet one-way delay: 64.440 ms
Loss rate: 4.93%
-- Flow 2:
Average throughput: 39.52 Mbit/s
95th percentile per-packet one-way delay: 68.395 ms
Loss rate: 7.66%
-- Flow 3:
Average throughput: 36.73 Mbit/s
95th percentile per-packet one-way delay: 67.608 ms
Loss rate: 7.32%
```

Run 2: Report of TCP BBR — Data Link

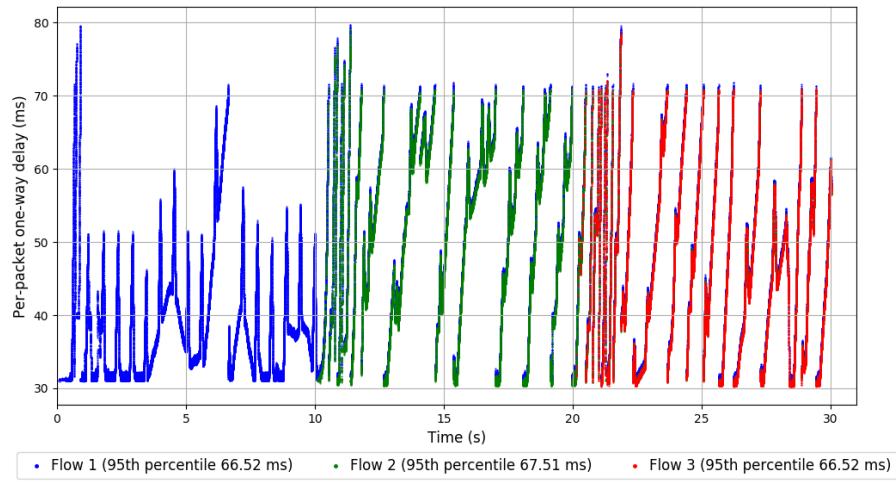
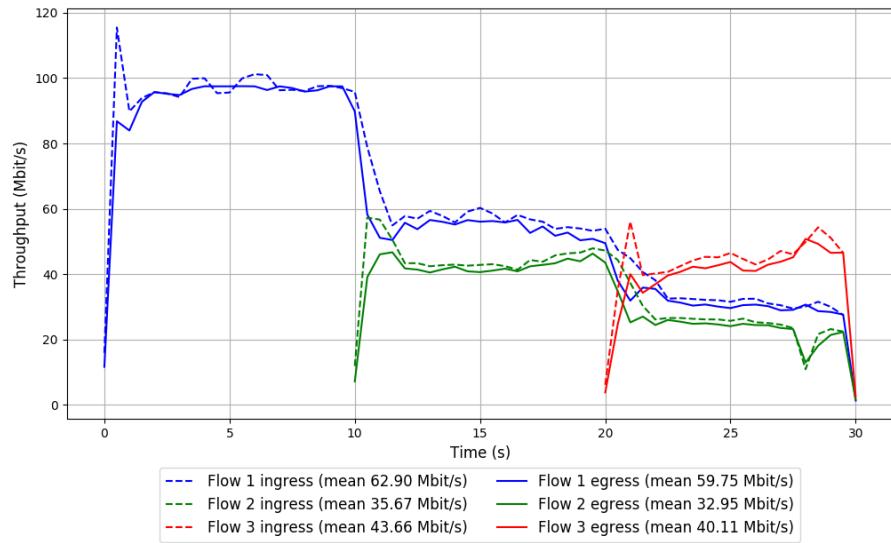


Run 3: Statistics of TCP BBR

```
Start at: 2018-04-24 22:08:57
End at: 2018-04-24 22:09:27
Local clock offset: 0.311 ms
Remote clock offset: 0.34 ms

# Below is generated by plot.py at 2018-04-25 01:40:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.05 Mbit/s
95th percentile per-packet one-way delay: 66.816 ms
Loss rate: 5.96%
-- Flow 1:
Average throughput: 59.75 Mbit/s
95th percentile per-packet one-way delay: 66.523 ms
Loss rate: 4.91%
-- Flow 2:
Average throughput: 32.95 Mbit/s
95th percentile per-packet one-way delay: 67.506 ms
Loss rate: 7.54%
-- Flow 3:
Average throughput: 40.11 Mbit/s
95th percentile per-packet one-way delay: 66.518 ms
Loss rate: 7.89%
```

Run 3: Report of TCP BBR — Data Link

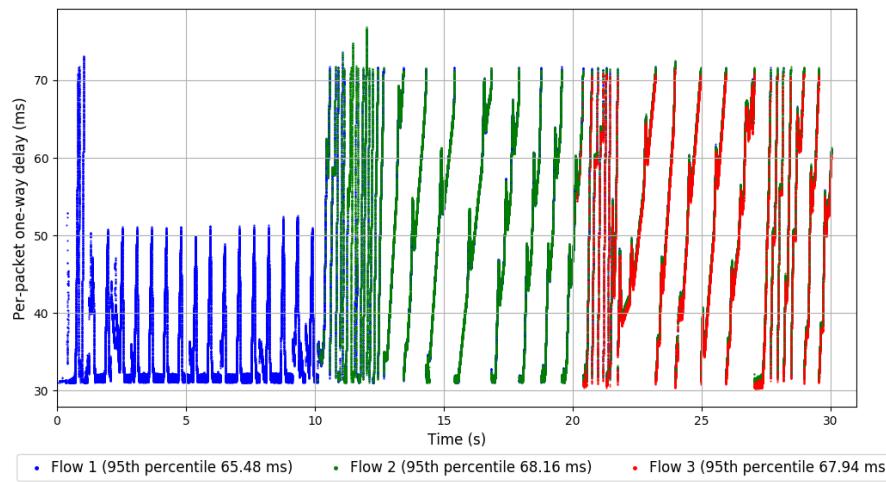
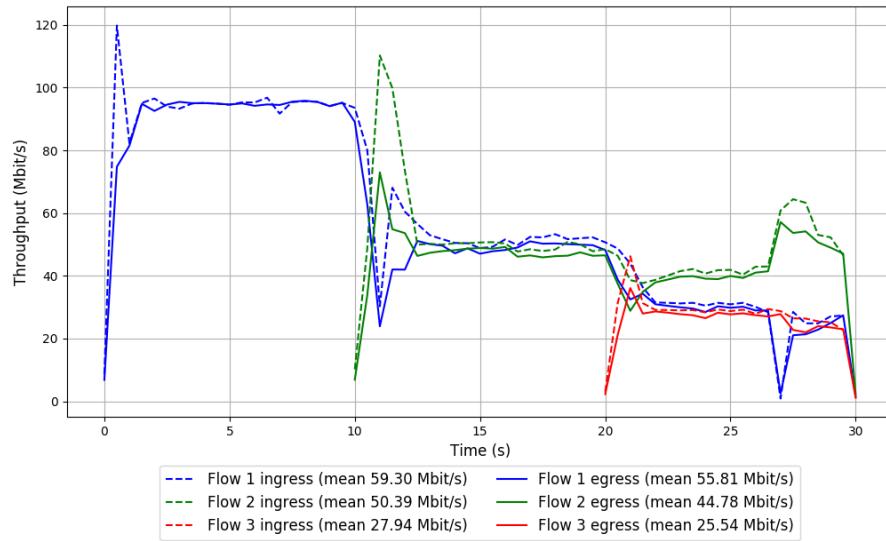


Run 4: Statistics of TCP BBR

```
Start at: 2018-04-24 22:33:18
End at: 2018-04-24 22:33:48
Local clock offset: 0.203 ms
Remote clock offset: 0.314 ms

# Below is generated by plot.py at 2018-04-25 01:40:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.13 Mbit/s
95th percentile per-packet one-way delay: 66.947 ms
Loss rate: 7.75%
-- Flow 1:
Average throughput: 55.81 Mbit/s
95th percentile per-packet one-way delay: 65.478 ms
Loss rate: 5.79%
-- Flow 2:
Average throughput: 44.78 Mbit/s
95th percentile per-packet one-way delay: 68.155 ms
Loss rate: 10.99%
-- Flow 3:
Average throughput: 25.54 Mbit/s
95th percentile per-packet one-way delay: 67.938 ms
Loss rate: 8.53%
```

Run 4: Report of TCP BBR — Data Link

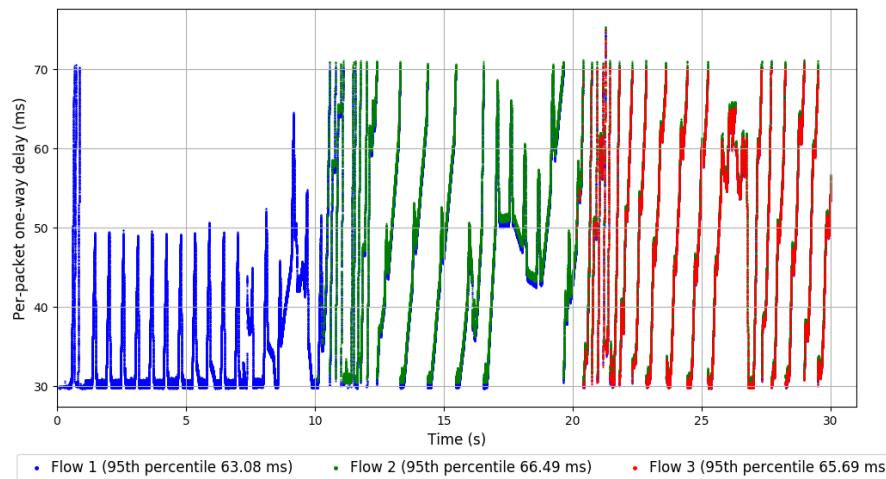
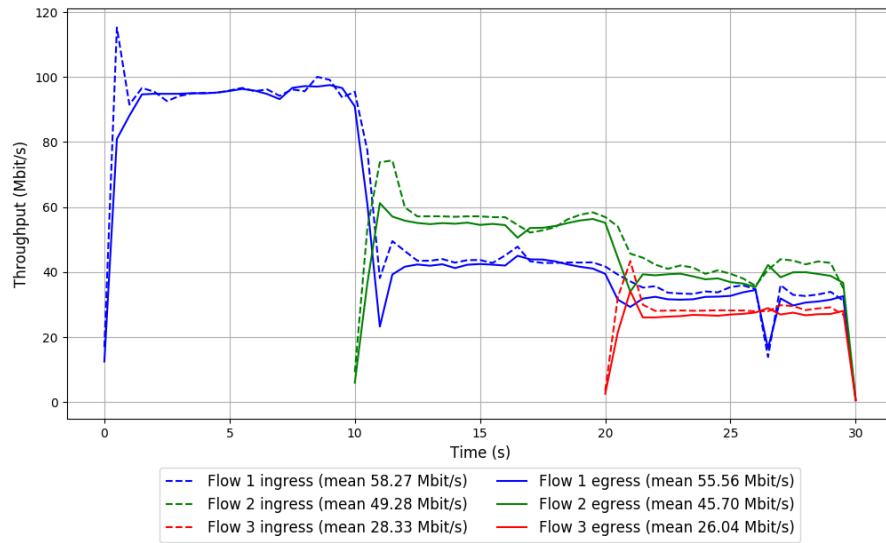


Run 5: Statistics of TCP BBR

```
Start at: 2018-04-24 22:57:55
End at: 2018-04-24 22:58:25
Local clock offset: 0.656 ms
Remote clock offset: -0.489 ms

# Below is generated by plot.py at 2018-04-25 01:40:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.66 Mbit/s
95th percentile per-packet one-way delay: 64.829 ms
Loss rate: 5.72%
-- Flow 1:
Average throughput: 55.56 Mbit/s
95th percentile per-packet one-way delay: 63.080 ms
Loss rate: 4.56%
-- Flow 2:
Average throughput: 45.70 Mbit/s
95th percentile per-packet one-way delay: 66.492 ms
Loss rate: 7.14%
-- Flow 3:
Average throughput: 26.04 Mbit/s
95th percentile per-packet one-way delay: 65.689 ms
Loss rate: 7.99%
```

Run 5: Report of TCP BBR — Data Link

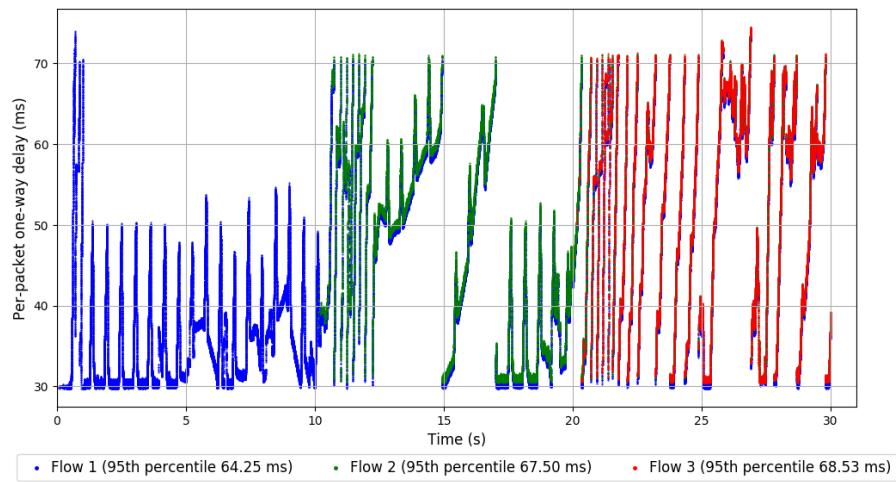
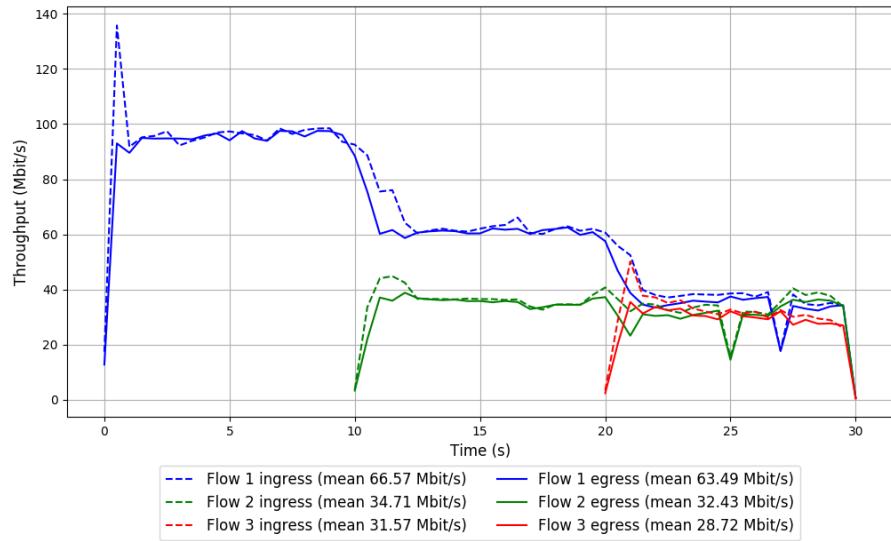


Run 6: Statistics of TCP BBR

```
Start at: 2018-04-24 23:23:28
End at: 2018-04-24 23:23:58
Local clock offset: 0.685 ms
Remote clock offset: 0.367 ms

# Below is generated by plot.py at 2018-04-25 01:40:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.61 Mbit/s
95th percentile per-packet one-way delay: 66.434 ms
Loss rate: 5.52%
-- Flow 1:
Average throughput: 63.49 Mbit/s
95th percentile per-packet one-way delay: 64.255 ms
Loss rate: 4.59%
-- Flow 2:
Average throughput: 32.43 Mbit/s
95th percentile per-packet one-way delay: 67.496 ms
Loss rate: 6.57%
-- Flow 3:
Average throughput: 28.72 Mbit/s
95th percentile per-packet one-way delay: 68.525 ms
Loss rate: 9.08%
```

Run 6: Report of TCP BBR — Data Link

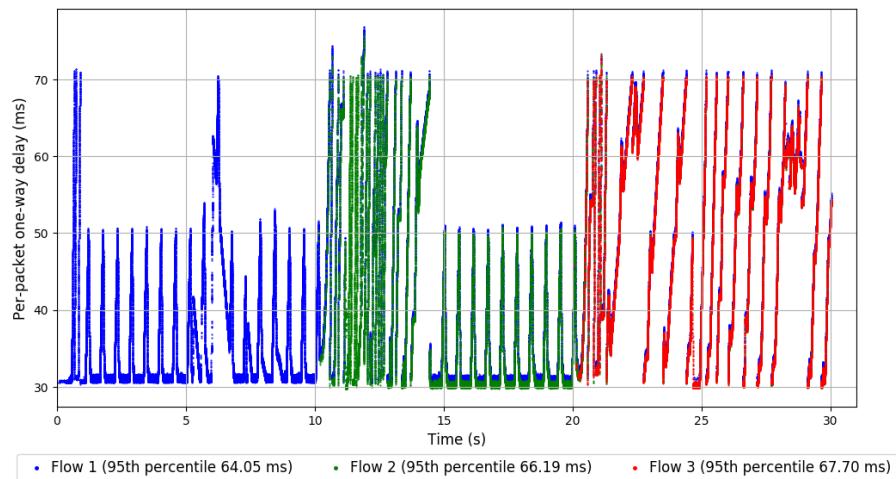
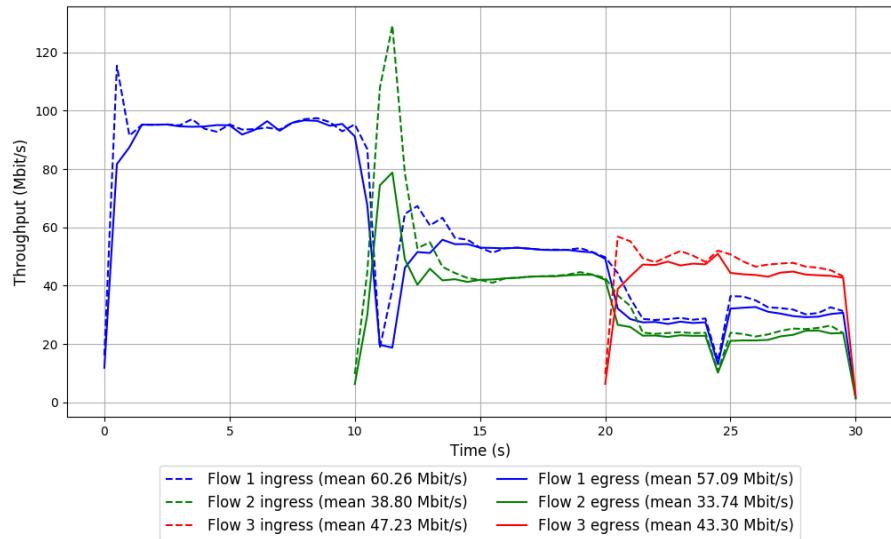


Run 7: Statistics of TCP BBR

```
Start at: 2018-04-24 23:48:22
End at: 2018-04-24 23:48:52
Local clock offset: 0.707 ms
Remote clock offset: 0.299 ms

# Below is generated by plot.py at 2018-04-25 01:40:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.97 Mbit/s
95th percentile per-packet one-way delay: 65.726 ms
Loss rate: 7.63%
-- Flow 1:
Average throughput: 57.09 Mbit/s
95th percentile per-packet one-way delay: 64.053 ms
Loss rate: 5.19%
-- Flow 2:
Average throughput: 33.74 Mbit/s
95th percentile per-packet one-way delay: 66.188 ms
Loss rate: 12.95%
-- Flow 3:
Average throughput: 43.30 Mbit/s
95th percentile per-packet one-way delay: 67.704 ms
Loss rate: 8.23%
```

Run 7: Report of TCP BBR — Data Link

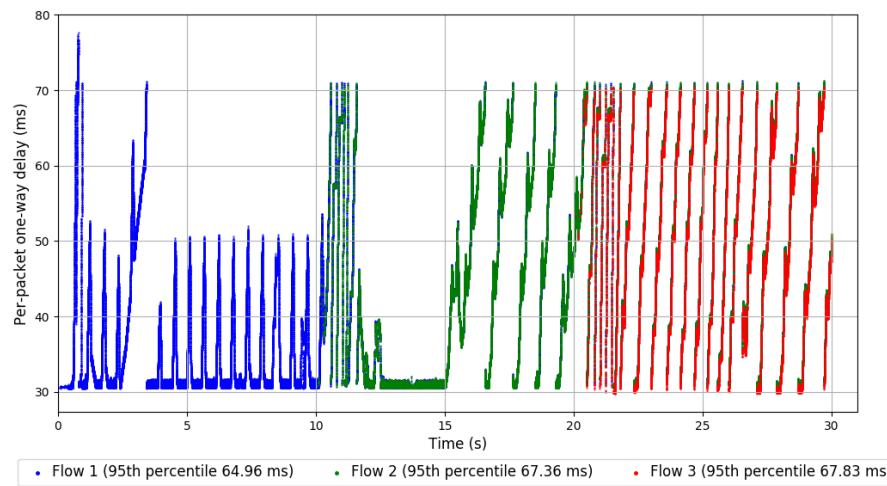
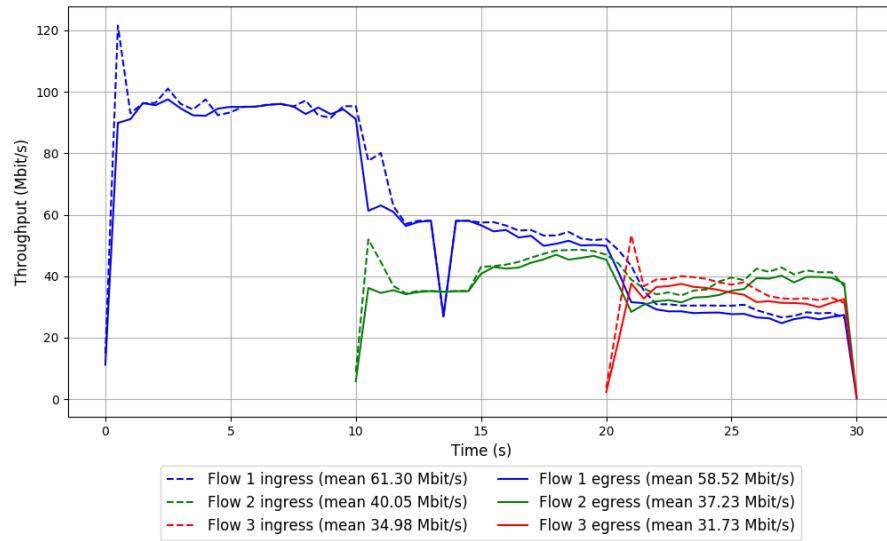


Run 8: Statistics of TCP BBR

```
Start at: 2018-04-25 00:13:58
End at: 2018-04-25 00:14:28
Local clock offset: 0.992 ms
Remote clock offset: 0.297 ms

# Below is generated by plot.py at 2018-04-25 01:40:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.84 Mbit/s
95th percentile per-packet one-way delay: 66.472 ms
Loss rate: 5.71%
-- Flow 1:
Average throughput: 58.52 Mbit/s
95th percentile per-packet one-way delay: 64.963 ms
Loss rate: 4.49%
-- Flow 2:
Average throughput: 37.23 Mbit/s
95th percentile per-packet one-way delay: 67.357 ms
Loss rate: 6.95%
-- Flow 3:
Average throughput: 31.73 Mbit/s
95th percentile per-packet one-way delay: 67.828 ms
Loss rate: 9.32%
```

Run 8: Report of TCP BBR — Data Link

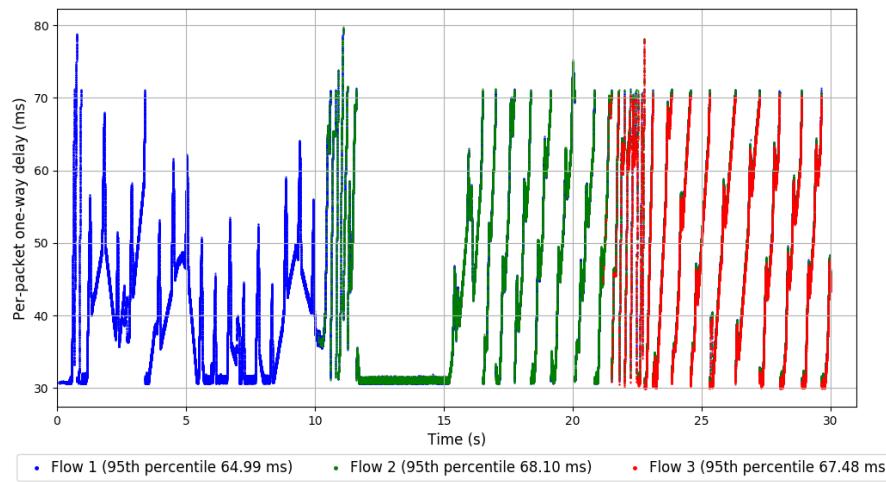
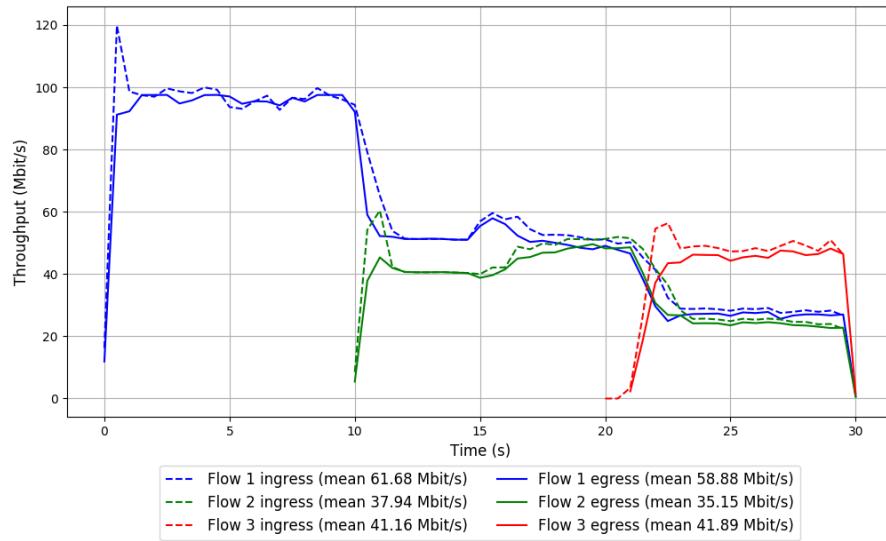


Run 9: Statistics of TCP BBR

```
Start at: 2018-04-25 00:40:11
End at: 2018-04-25 00:40:41
Local clock offset: 0.92 ms
Remote clock offset: -0.663 ms

# Below is generated by plot.py at 2018-04-25 01:42:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.76 Mbit/s
95th percentile per-packet one-way delay: 66.394 ms
Loss rate: 5.77%
-- Flow 1:
Average throughput: 58.88 Mbit/s
95th percentile per-packet one-way delay: 64.986 ms
Loss rate: 4.50%
-- Flow 2:
Average throughput: 35.15 Mbit/s
95th percentile per-packet one-way delay: 68.097 ms
Loss rate: 7.30%
-- Flow 3:
Average throughput: 41.89 Mbit/s
95th percentile per-packet one-way delay: 67.478 ms
Loss rate: 8.69%
```

Run 9: Report of TCP BBR — Data Link

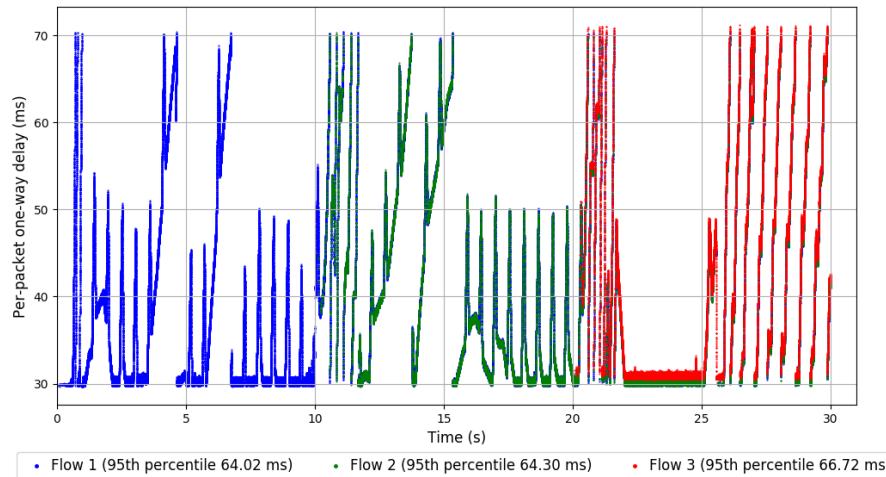
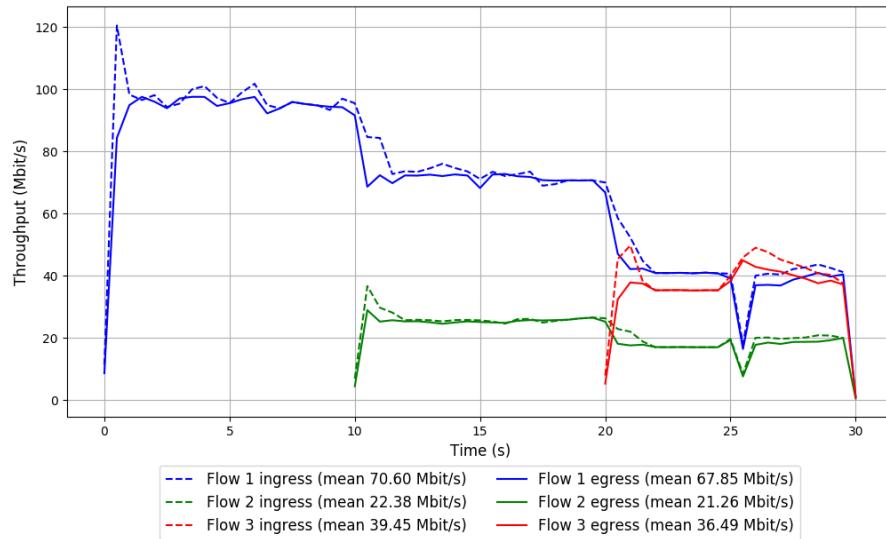


Run 10: Statistics of TCP BBR

```
Start at: 2018-04-25 01:07:21
End at: 2018-04-25 01:07:51
Local clock offset: 1.12 ms
Remote clock offset: -4.366 ms

# Below is generated by plot.py at 2018-04-25 01:42:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.13 Mbit/s
95th percentile per-packet one-way delay: 64.426 ms
Loss rate: 4.50%
-- Flow 1:
Average throughput: 67.85 Mbit/s
95th percentile per-packet one-way delay: 64.015 ms
Loss rate: 3.85%
-- Flow 2:
Average throughput: 21.26 Mbit/s
95th percentile per-packet one-way delay: 64.299 ms
Loss rate: 5.04%
-- Flow 3:
Average throughput: 36.49 Mbit/s
95th percentile per-packet one-way delay: 66.719 ms
Loss rate: 7.40%
```

Run 10: Report of TCP BBR — Data Link

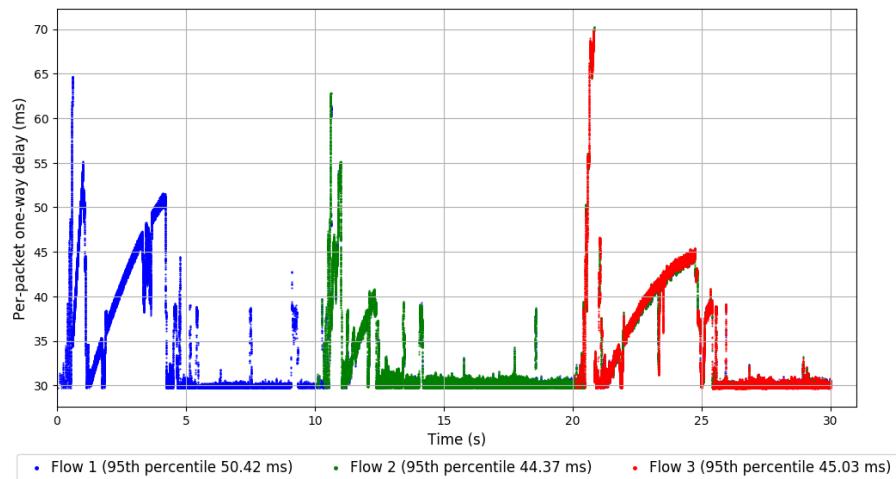
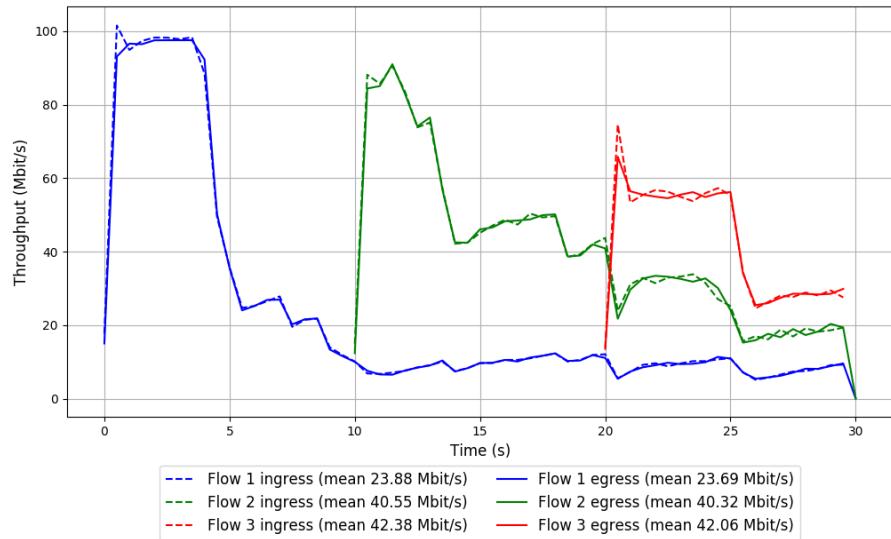


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2018-04-24 21:16:37
End at: 2018-04-24 21:17:07
Local clock offset: 1.275 ms
Remote clock offset: -0.218 ms

# Below is generated by plot.py at 2018-04-25 01:42:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.50 Mbit/s
95th percentile per-packet one-way delay: 49.484 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 23.69 Mbit/s
95th percentile per-packet one-way delay: 50.421 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 40.32 Mbit/s
95th percentile per-packet one-way delay: 44.369 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 42.06 Mbit/s
95th percentile per-packet one-way delay: 45.030 ms
Loss rate: 0.76%
```

Run 1: Report of TCP Cubic — Data Link

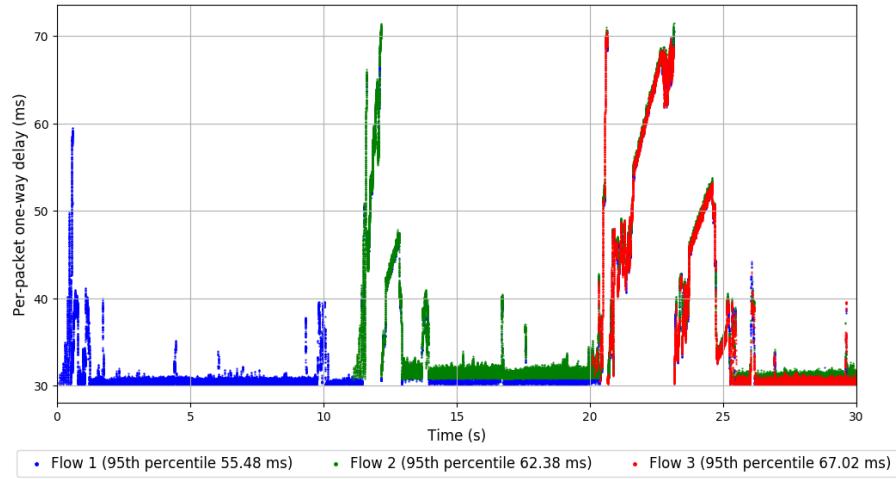
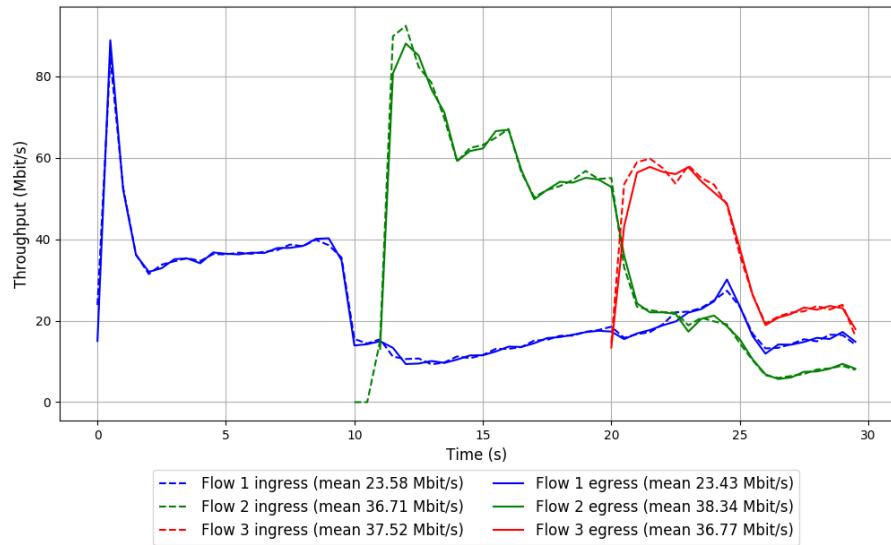


Run 2: Statistics of TCP Cubic

```
Start at: 2018-04-24 21:41:49
End at: 2018-04-24 21:42:19
Local clock offset: 0.834 ms
Remote clock offset: -0.168 ms

# Below is generated by plot.py at 2018-04-25 01:42:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.84 Mbit/s
95th percentile per-packet one-way delay: 64.123 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 23.43 Mbit/s
95th percentile per-packet one-way delay: 55.479 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 38.34 Mbit/s
95th percentile per-packet one-way delay: 62.380 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 36.77 Mbit/s
95th percentile per-packet one-way delay: 67.017 ms
Loss rate: 2.02%
```

Run 2: Report of TCP Cubic — Data Link

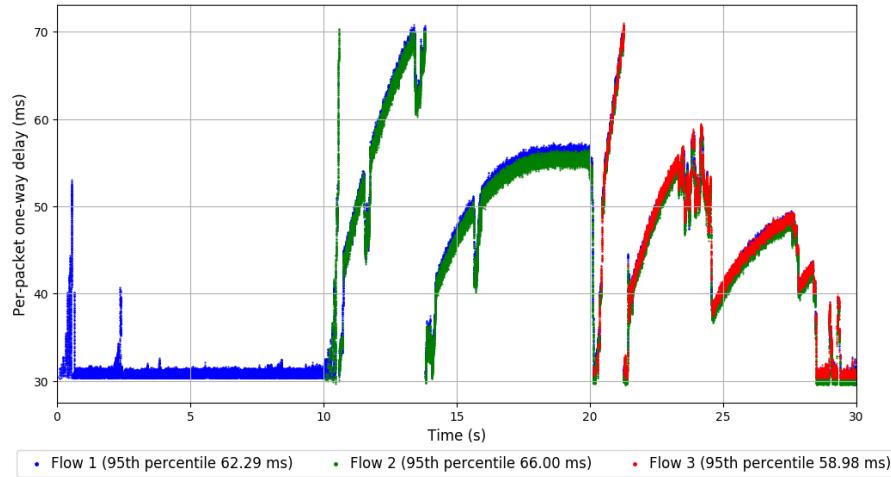
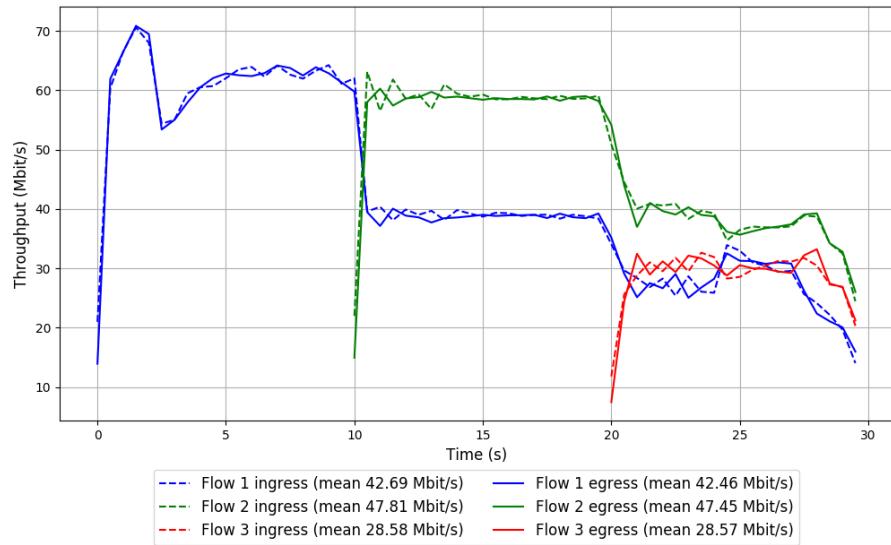


Run 3: Statistics of TCP Cubic

```
Start at: 2018-04-24 22:07:31
End at: 2018-04-24 22:08:01
Local clock offset: 0.409 ms
Remote clock offset: -0.188 ms

# Below is generated by plot.py at 2018-04-25 01:42:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.50 Mbit/s
95th percentile per-packet one-way delay: 63.959 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 42.46 Mbit/s
95th percentile per-packet one-way delay: 62.289 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 47.45 Mbit/s
95th percentile per-packet one-way delay: 66.004 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 28.57 Mbit/s
95th percentile per-packet one-way delay: 58.982 ms
Loss rate: 0.29%
```

Run 3: Report of TCP Cubic — Data Link

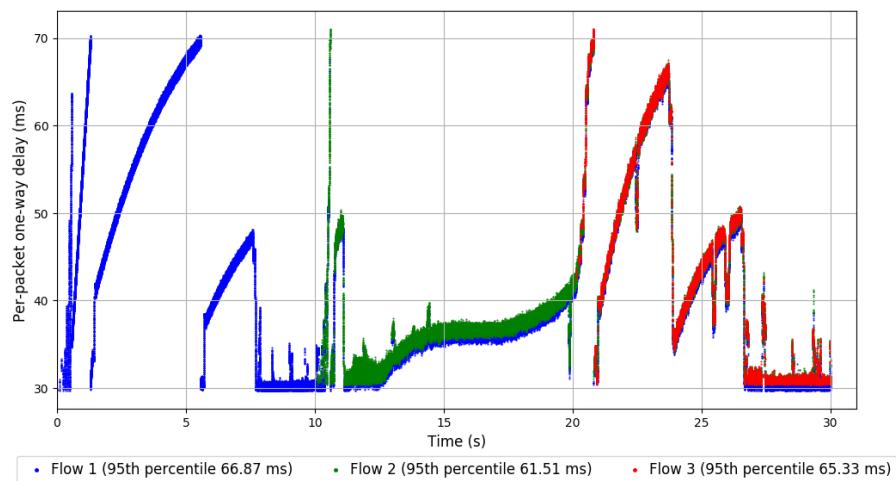
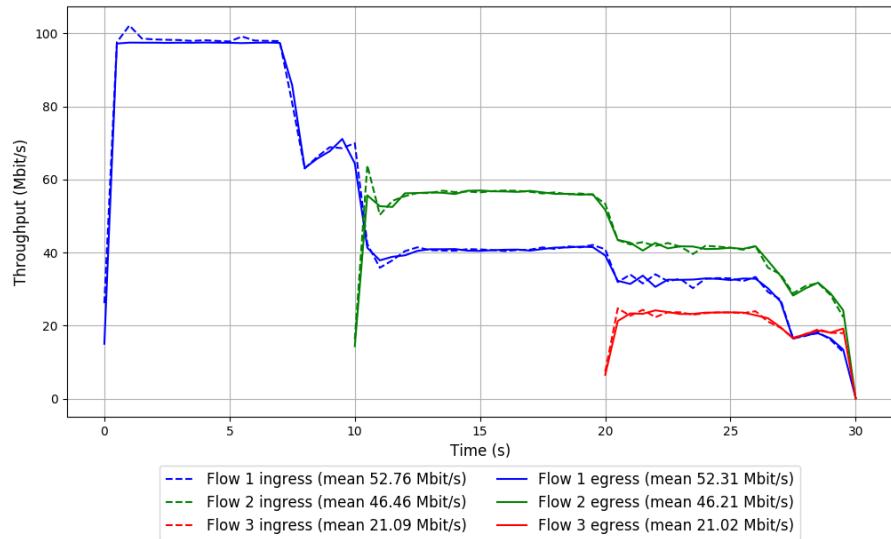


Run 4: Statistics of TCP Cubic

```
Start at: 2018-04-24 22:31:49
End at: 2018-04-24 22:32:19
Local clock offset: 0.292 ms
Remote clock offset: -0.137 ms

# Below is generated by plot.py at 2018-04-25 01:42:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.05 Mbit/s
95th percentile per-packet one-way delay: 65.631 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 52.31 Mbit/s
95th percentile per-packet one-way delay: 66.868 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 46.21 Mbit/s
95th percentile per-packet one-way delay: 61.513 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 21.02 Mbit/s
95th percentile per-packet one-way delay: 65.330 ms
Loss rate: 0.44%
```

Run 4: Report of TCP Cubic — Data Link

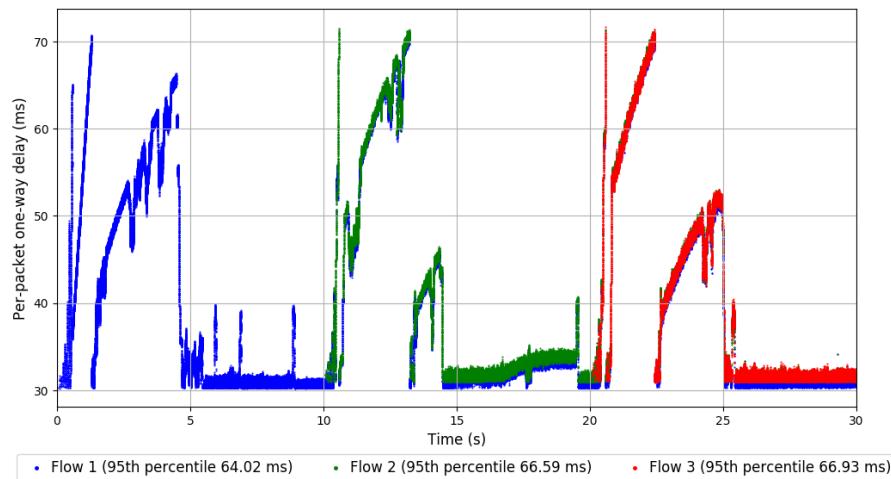
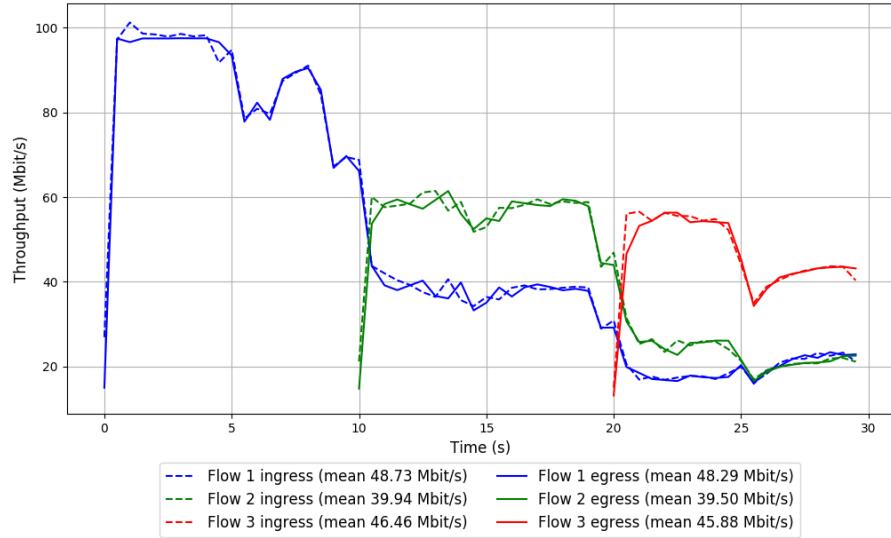


Run 5: Statistics of TCP Cubic

```
Start at: 2018-04-24 22:56:26
End at: 2018-04-24 22:56:56
Local clock offset: 0.644 ms
Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2018-04-25 01:42:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.84 Mbit/s
95th percentile per-packet one-way delay: 65.106 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 48.29 Mbit/s
95th percentile per-packet one-way delay: 64.018 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 39.50 Mbit/s
95th percentile per-packet one-way delay: 66.592 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 45.88 Mbit/s
95th percentile per-packet one-way delay: 66.933 ms
Loss rate: 1.24%
```

Run 5: Report of TCP Cubic — Data Link

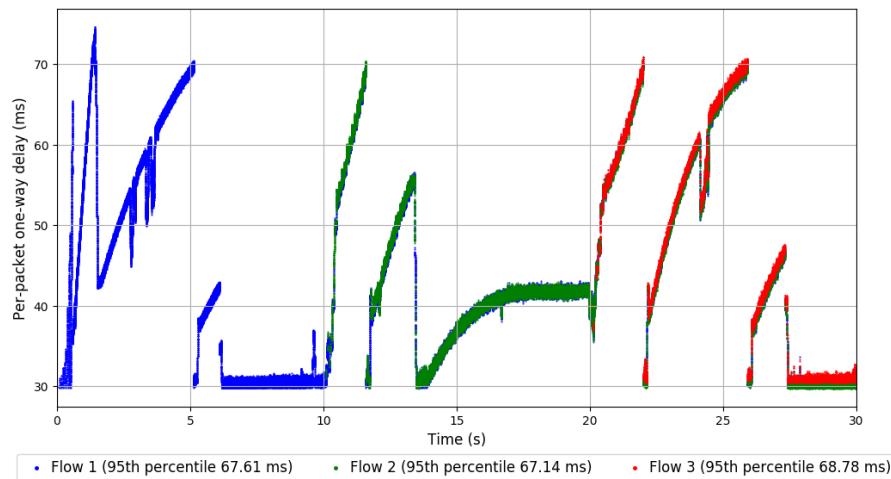
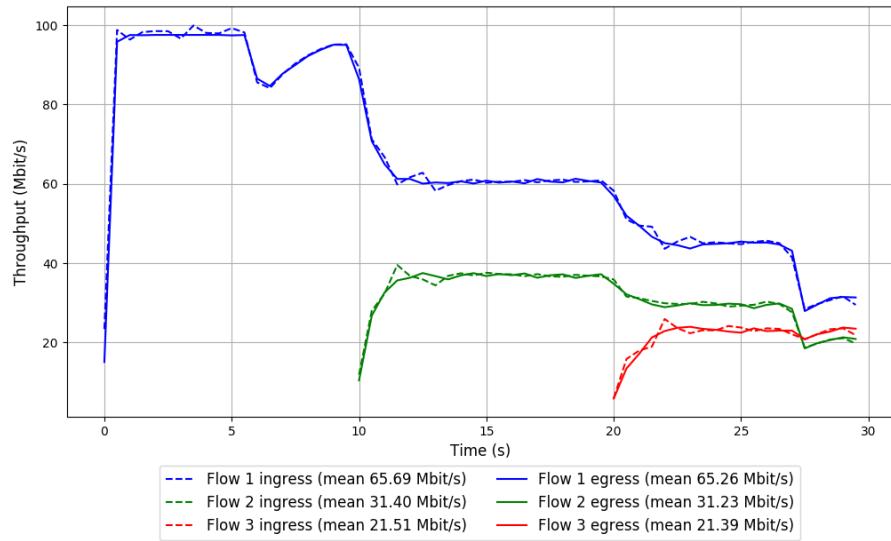


Run 6: Statistics of TCP Cubic

```
Start at: 2018-04-24 23:21:54
End at: 2018-04-24 23:22:24
Local clock offset: 0.659 ms
Remote clock offset: 0.324 ms

# Below is generated by plot.py at 2018-04-25 01:42:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.16 Mbit/s
95th percentile per-packet one-way delay: 67.700 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 65.26 Mbit/s
95th percentile per-packet one-way delay: 67.606 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 31.23 Mbit/s
95th percentile per-packet one-way delay: 67.135 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 21.39 Mbit/s
95th percentile per-packet one-way delay: 68.785 ms
Loss rate: 0.65%
```

Run 6: Report of TCP Cubic — Data Link

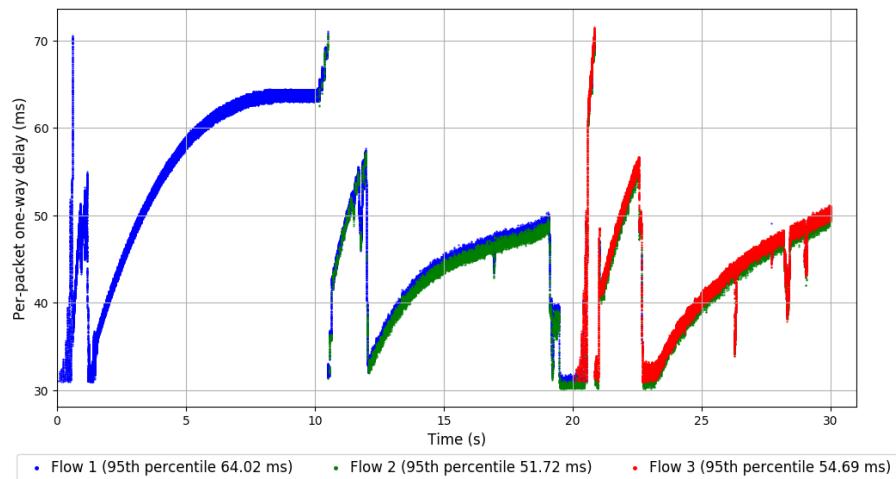
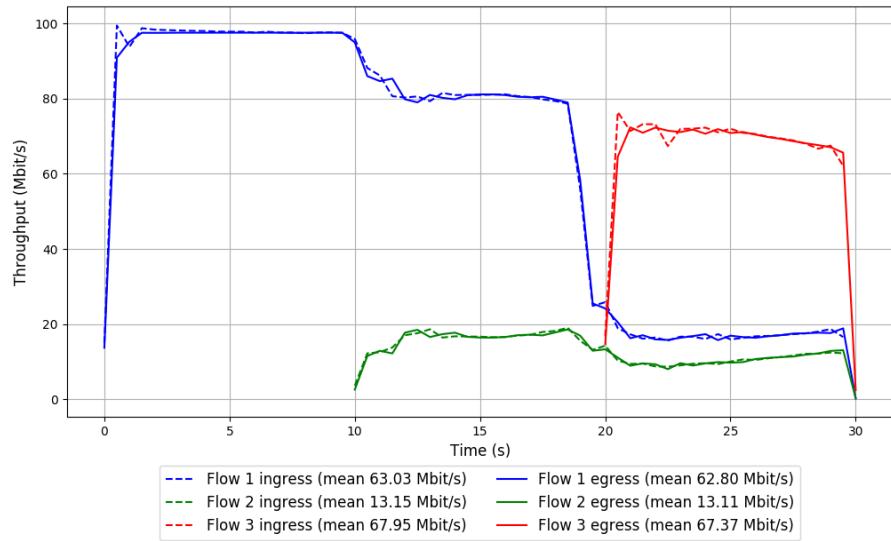


Run 7: Statistics of TCP Cubic

```
Start at: 2018-04-24 23:46:56
End at: 2018-04-24 23:47:26
Local clock offset: 0.694 ms
Remote clock offset: 0.735 ms

# Below is generated by plot.py at 2018-04-25 01:43:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.90 Mbit/s
95th percentile per-packet one-way delay: 63.873 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 62.80 Mbit/s
95th percentile per-packet one-way delay: 64.017 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 13.11 Mbit/s
95th percentile per-packet one-way delay: 51.716 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 67.37 Mbit/s
95th percentile per-packet one-way delay: 54.685 ms
Loss rate: 0.66%
```

Run 7: Report of TCP Cubic — Data Link

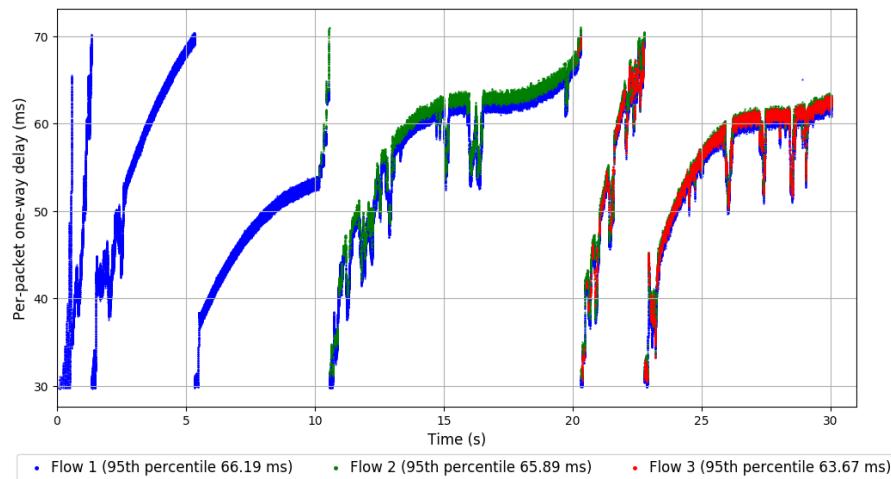
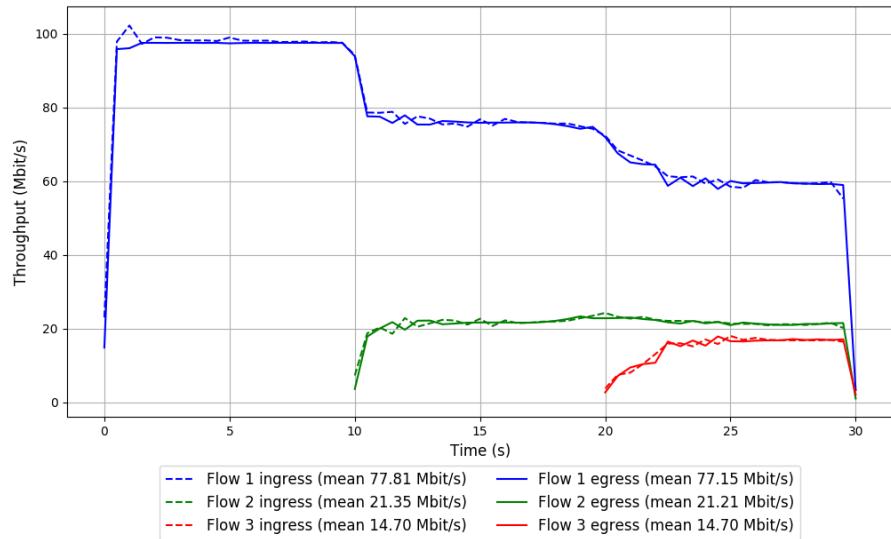


Run 8: Statistics of TCP Cubic

```
Start at: 2018-04-25 00:12:22
End at: 2018-04-25 00:12:52
Local clock offset: 0.963 ms
Remote clock offset: 0.419 ms

# Below is generated by plot.py at 2018-04-25 01:43:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.14 Mbit/s
95th percentile per-packet one-way delay: 66.013 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 77.15 Mbit/s
95th percentile per-packet one-way delay: 66.190 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 21.21 Mbit/s
95th percentile per-packet one-way delay: 65.893 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 14.70 Mbit/s
95th percentile per-packet one-way delay: 63.669 ms
Loss rate: 0.03%
```

Run 8: Report of TCP Cubic — Data Link

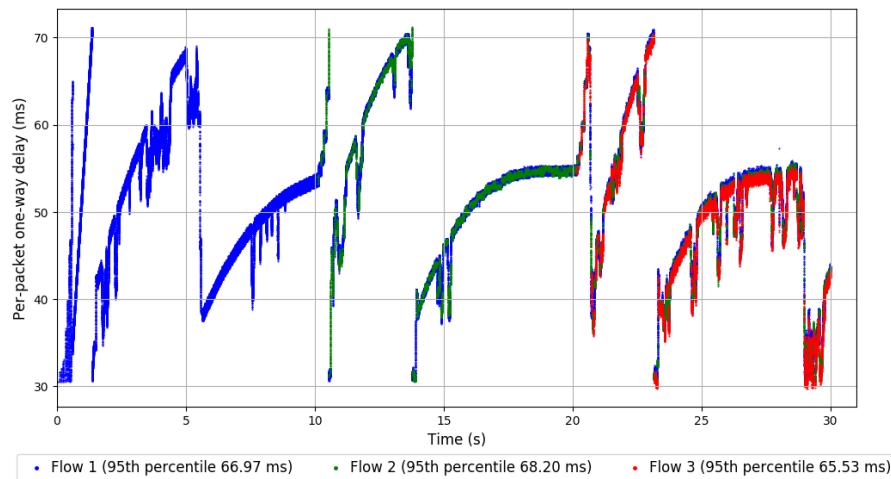
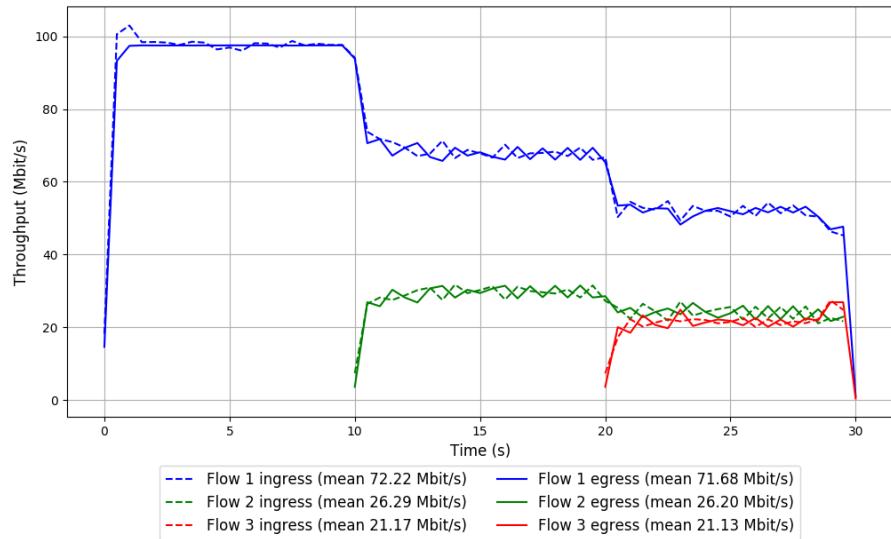


Run 9: Statistics of TCP Cubic

```
Start at: 2018-04-25 00:38:37
End at: 2018-04-25 00:39:07
Local clock offset: 0.933 ms
Remote clock offset: -0.638 ms

# Below is generated by plot.py at 2018-04-25 01:43:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.11 Mbit/s
95th percentile per-packet one-way delay: 67.066 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 71.68 Mbit/s
95th percentile per-packet one-way delay: 66.971 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 26.20 Mbit/s
95th percentile per-packet one-way delay: 68.202 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 21.13 Mbit/s
95th percentile per-packet one-way delay: 65.532 ms
Loss rate: 0.31%
```

Run 9: Report of TCP Cubic — Data Link

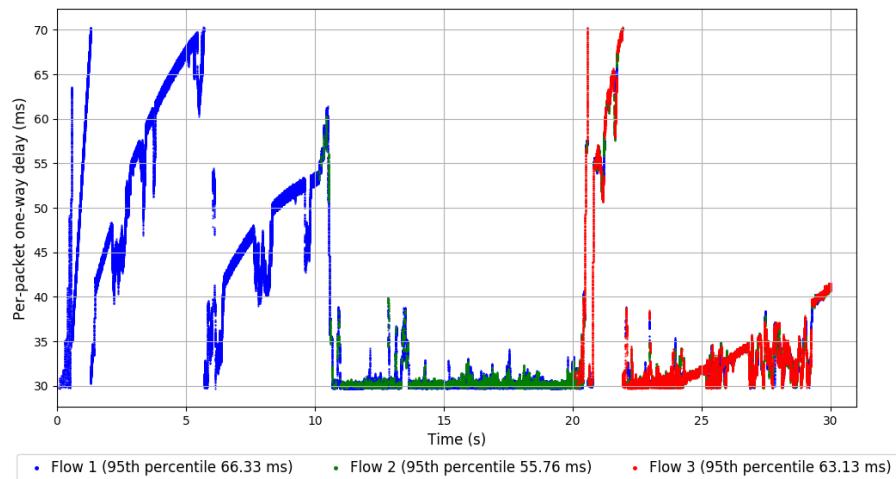
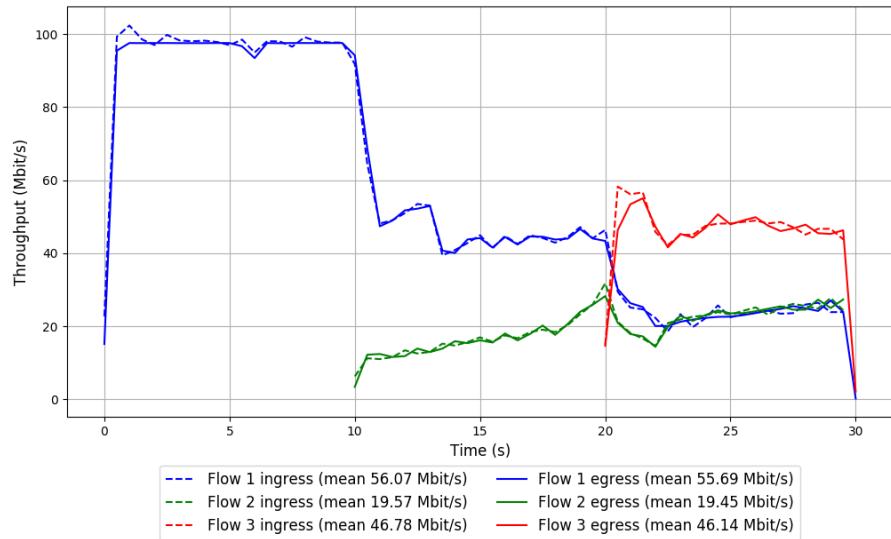


```
Run 10: Statistics of TCP Cubic
```

```
Start at: 2018-04-25 01:05:42
End at: 2018-04-25 01:06:12
Local clock offset: 1.15 ms
Remote clock offset: -4.228 ms

# Below is generated by plot.py at 2018-04-25 01:43:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.93 Mbit/s
95th percentile per-packet one-way delay: 65.449 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 55.69 Mbit/s
95th percentile per-packet one-way delay: 66.335 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 19.45 Mbit/s
95th percentile per-packet one-way delay: 55.757 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 46.14 Mbit/s
95th percentile per-packet one-way delay: 63.128 ms
Loss rate: 1.26%
```

Run 10: Report of TCP Cubic — Data Link

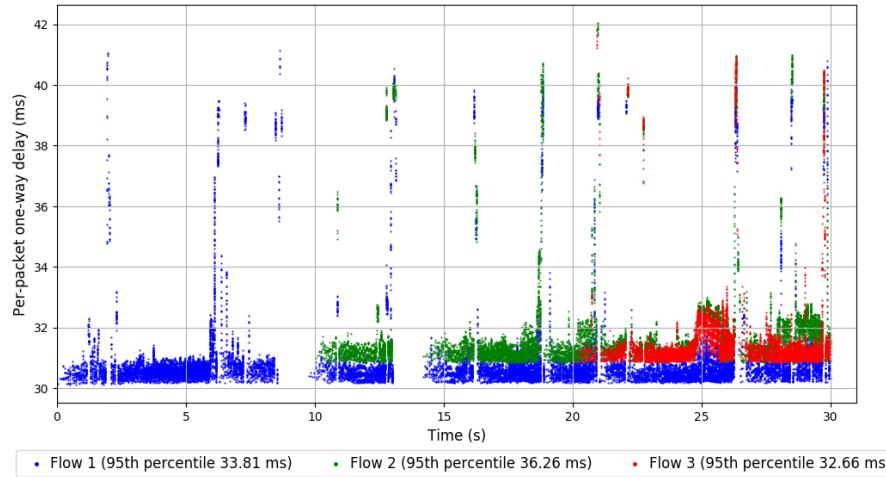
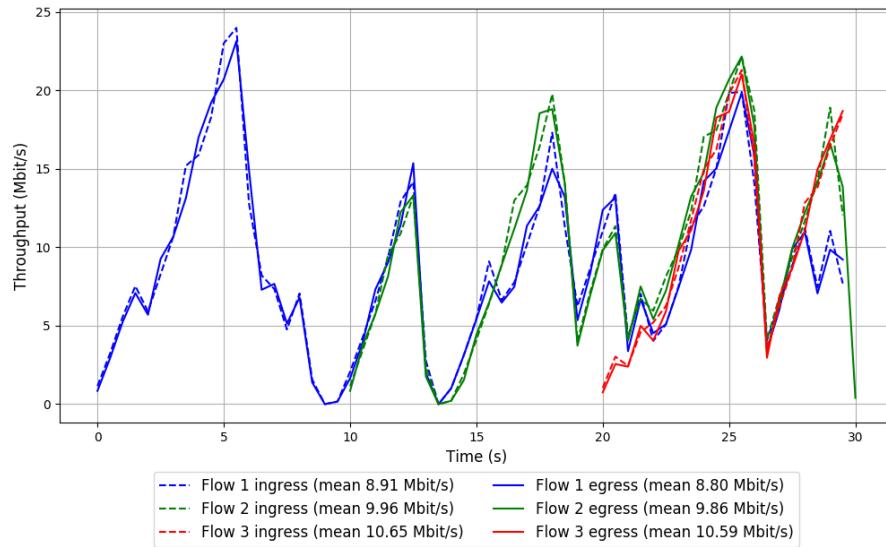


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-24 21:22:44
End at: 2018-04-24 21:23:14
Local clock offset: 1.336 ms
Remote clock offset: 0.141 ms

# Below is generated by plot.py at 2018-04-25 01:43:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.87 Mbit/s
95th percentile per-packet one-way delay: 34.603 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 8.80 Mbit/s
95th percentile per-packet one-way delay: 33.809 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 9.86 Mbit/s
95th percentile per-packet one-way delay: 36.256 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 10.59 Mbit/s
95th percentile per-packet one-way delay: 32.655 ms
Loss rate: 0.57%
```

Run 1: Report of LEDBAT — Data Link

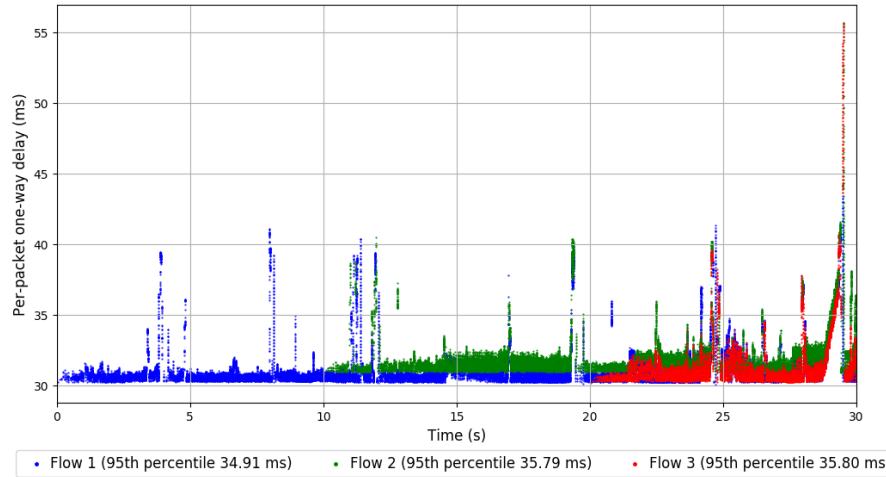
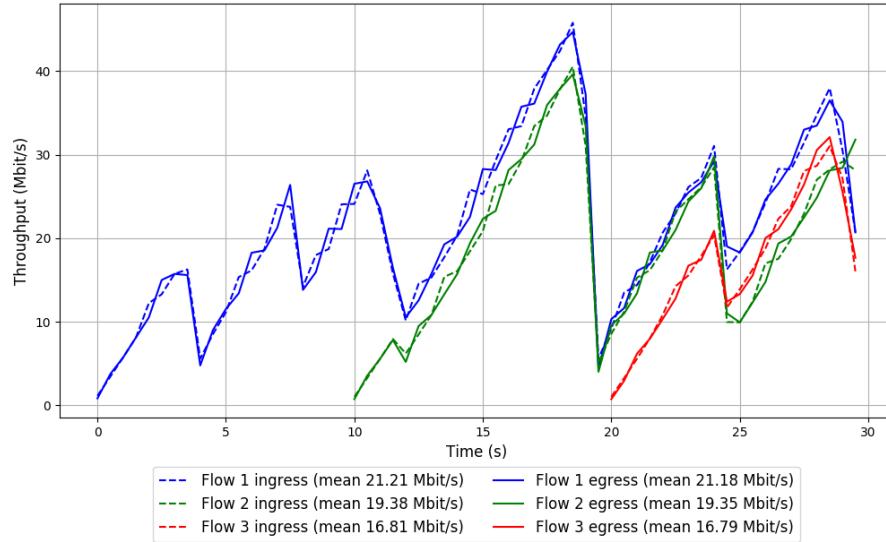


Run 2: Statistics of LEDBAT

```
Start at: 2018-04-24 21:47:50
End at: 2018-04-24 21:48:20
Local clock offset: 0.621 ms
Remote clock offset: -0.266 ms

# Below is generated by plot.py at 2018-04-25 01:43:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.64 Mbit/s
95th percentile per-packet one-way delay: 35.454 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 21.18 Mbit/s
95th percentile per-packet one-way delay: 34.914 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 19.35 Mbit/s
95th percentile per-packet one-way delay: 35.787 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 16.79 Mbit/s
95th percentile per-packet one-way delay: 35.795 ms
Loss rate: 0.13%
```

Run 2: Report of LEDBAT — Data Link

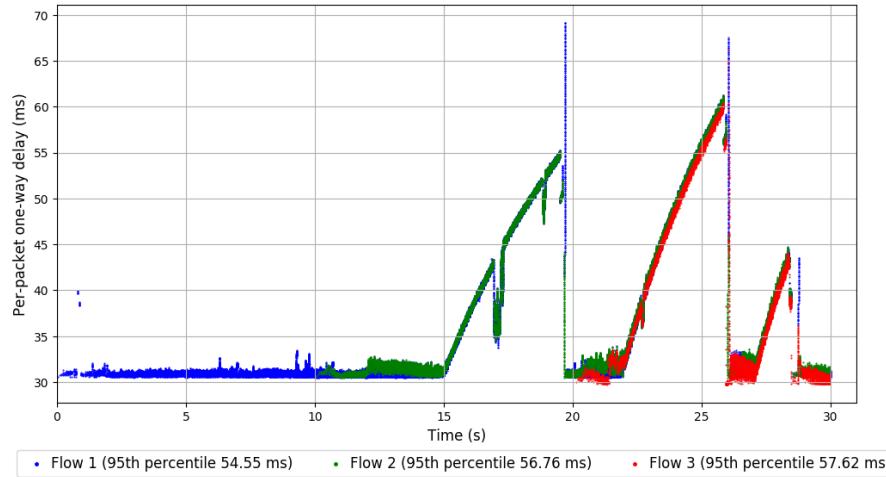
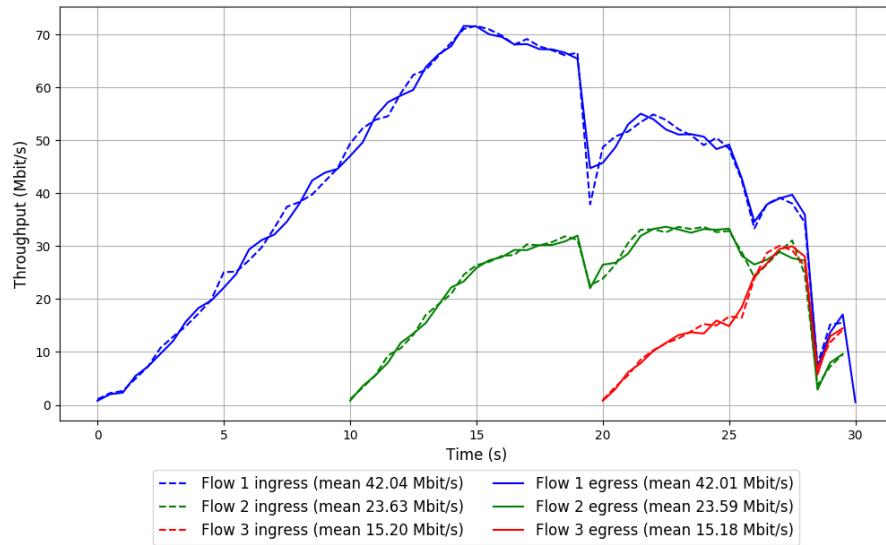


Run 3: Statistics of LEDBAT

```
Start at: 2018-04-24 22:13:29
End at: 2018-04-24 22:13:59
Local clock offset: 0.308 ms
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2018-04-25 01:43:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.72 Mbit/s
95th percentile per-packet one-way delay: 55.708 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 42.01 Mbit/s
95th percentile per-packet one-way delay: 54.551 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 23.59 Mbit/s
95th percentile per-packet one-way delay: 56.763 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 15.18 Mbit/s
95th percentile per-packet one-way delay: 57.621 ms
Loss rate: 0.15%
```

Run 3: Report of LEDBAT — Data Link

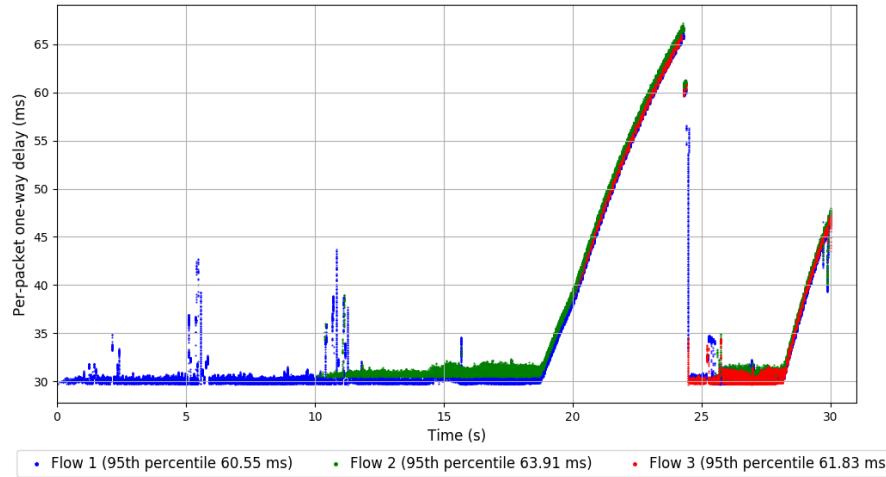
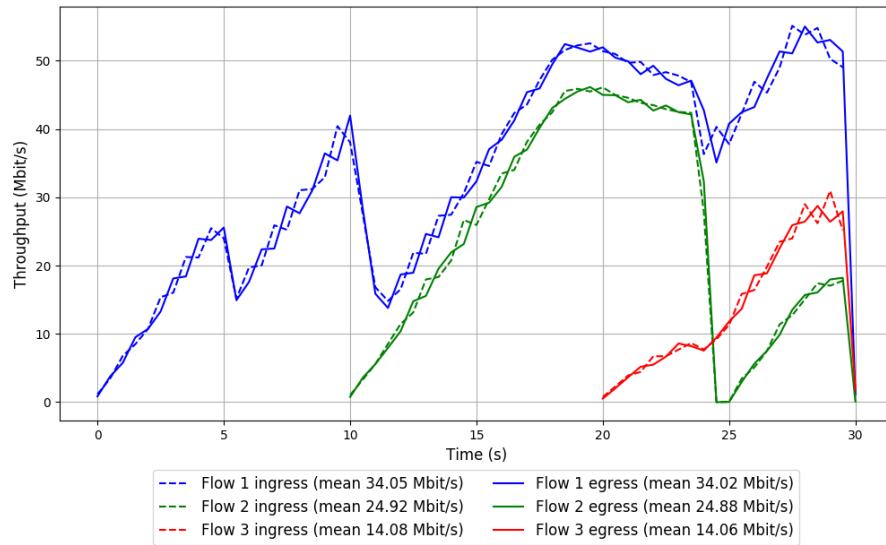


Run 4: Statistics of LEDBAT

```
Start at: 2018-04-24 22:37:37
End at: 2018-04-24 22:38:07
Local clock offset: 0.156 ms
Remote clock offset: -0.269 ms

# Below is generated by plot.py at 2018-04-25 01:43:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 55.24 Mbit/s
95th percentile per-packet one-way delay: 62.209 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 34.02 Mbit/s
95th percentile per-packet one-way delay: 60.546 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 24.88 Mbit/s
95th percentile per-packet one-way delay: 63.911 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 14.06 Mbit/s
95th percentile per-packet one-way delay: 61.825 ms
Loss rate: 0.10%
```

Run 4: Report of LEDBAT — Data Link

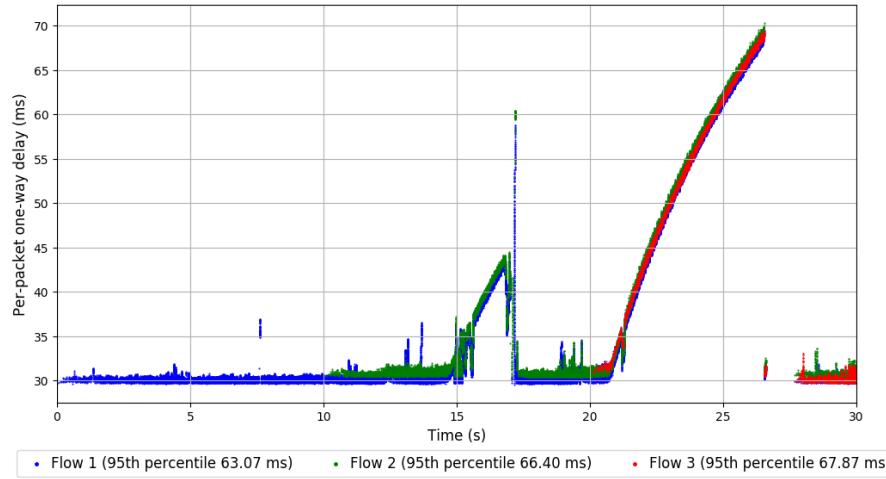
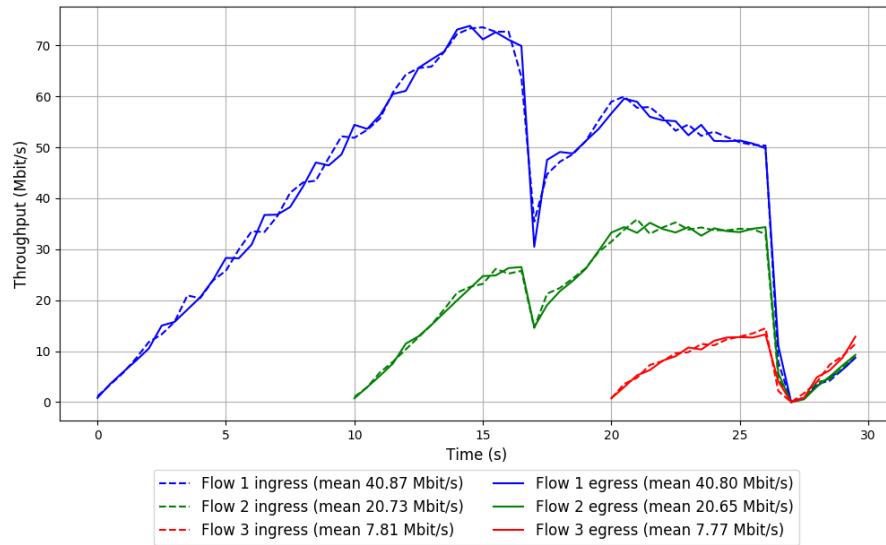


Run 5: Statistics of LEDBAT

```
Start at: 2018-04-24 23:02:15
End at: 2018-04-24 23:02:45
Local clock offset: 0.695 ms
Remote clock offset: -0.522 ms

# Below is generated by plot.py at 2018-04-25 01:43:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 57.09 Mbit/s
95th percentile per-packet one-way delay: 64.923 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 40.80 Mbit/s
95th percentile per-packet one-way delay: 63.068 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 20.65 Mbit/s
95th percentile per-packet one-way delay: 66.400 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 7.77 Mbit/s
95th percentile per-packet one-way delay: 67.871 ms
Loss rate: 0.51%
```

Run 5: Report of LEDBAT — Data Link

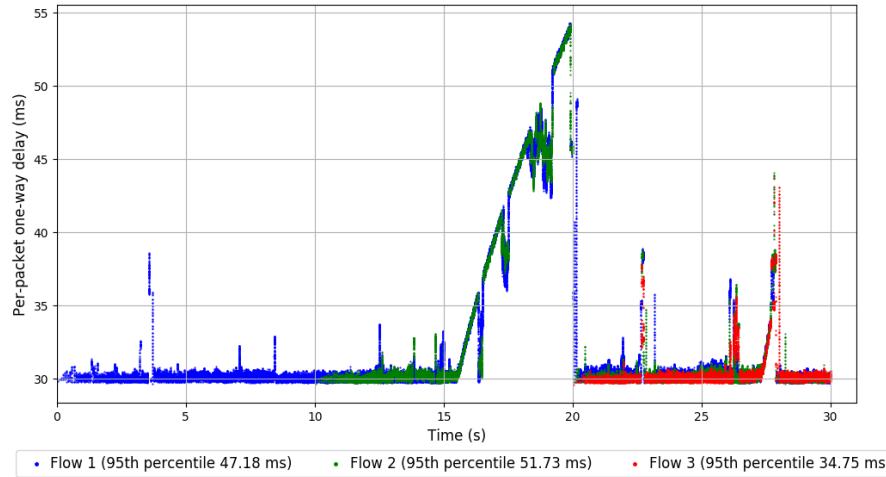
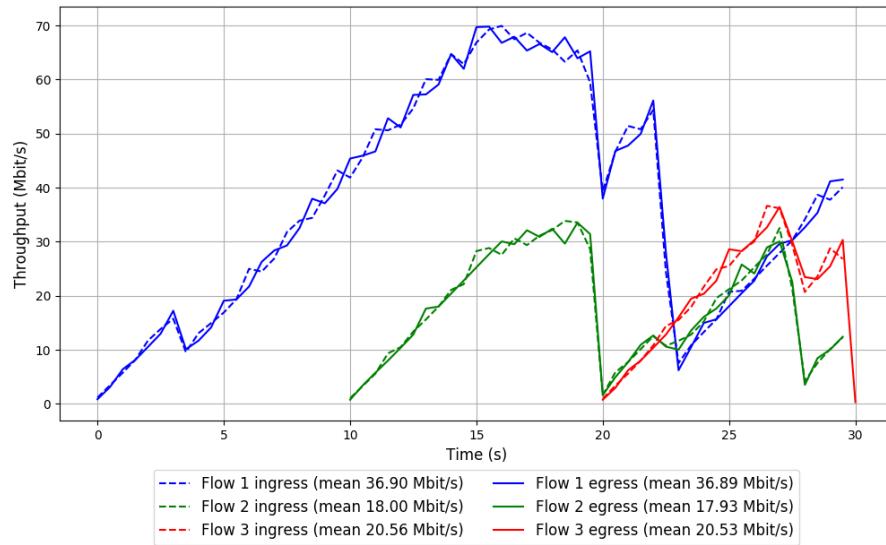


Run 6: Statistics of LEDBAT

```
Start at: 2018-04-24 23:27:44
End at: 2018-04-24 23:28:15
Local clock offset: 0.779 ms
Remote clock offset: 0.418 ms

# Below is generated by plot.py at 2018-04-25 01:43:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 55.60 Mbit/s
95th percentile per-packet one-way delay: 47.055 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 36.89 Mbit/s
95th percentile per-packet one-way delay: 47.177 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 17.93 Mbit/s
95th percentile per-packet one-way delay: 51.734 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 20.53 Mbit/s
95th percentile per-packet one-way delay: 34.749 ms
Loss rate: 0.11%
```

Run 6: Report of LEDBAT — Data Link

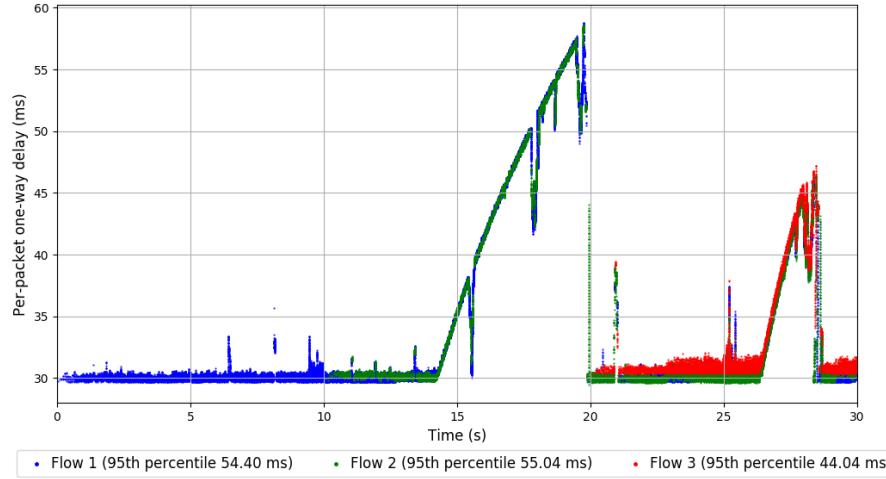
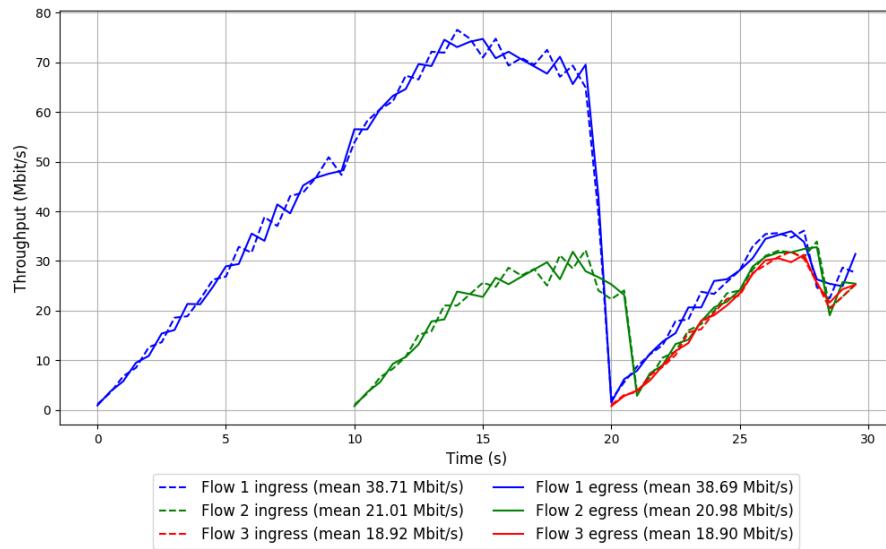


Run 7: Statistics of LEDBAT

```
Start at: 2018-04-24 23:52:46
End at: 2018-04-24 23:53:16
Local clock offset: 0.818 ms
Remote clock offset: 0.237 ms

# Below is generated by plot.py at 2018-04-25 01:44:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.90 Mbit/s
95th percentile per-packet one-way delay: 54.087 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 38.69 Mbit/s
95th percentile per-packet one-way delay: 54.398 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 20.98 Mbit/s
95th percentile per-packet one-way delay: 55.041 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 18.90 Mbit/s
95th percentile per-packet one-way delay: 44.044 ms
Loss rate: 0.08%
```

Run 7: Report of LEDBAT — Data Link

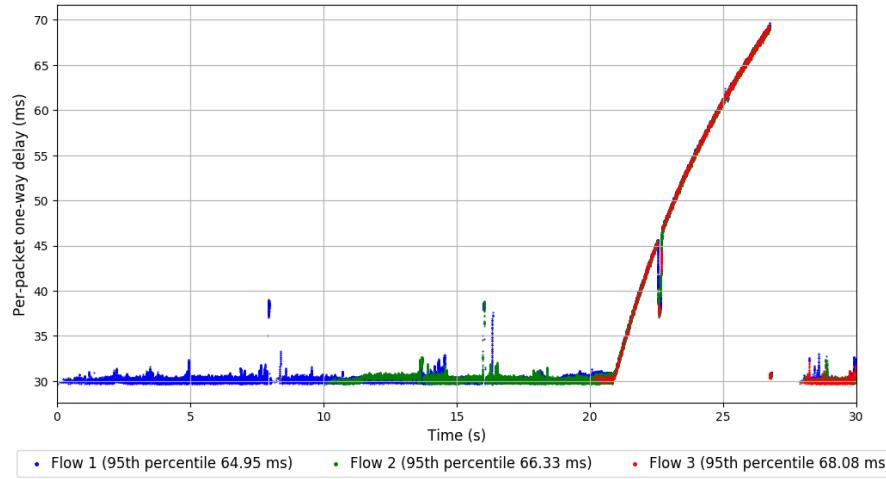
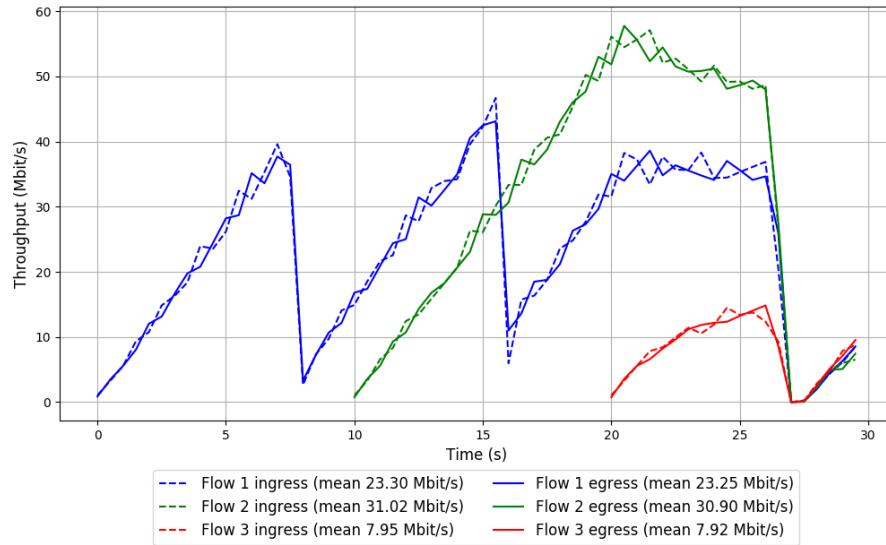


Run 8: Statistics of LEDBAT

```
Start at: 2018-04-25 00:18:31
End at: 2018-04-25 00:19:01
Local clock offset: 1.069 ms
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2018-04-25 01:44:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 46.43 Mbit/s
95th percentile per-packet one-way delay: 66.041 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 23.25 Mbit/s
95th percentile per-packet one-way delay: 64.946 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 30.90 Mbit/s
95th percentile per-packet one-way delay: 66.333 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 7.92 Mbit/s
95th percentile per-packet one-way delay: 68.080 ms
Loss rate: 0.45%
```

Run 8: Report of LEDBAT — Data Link

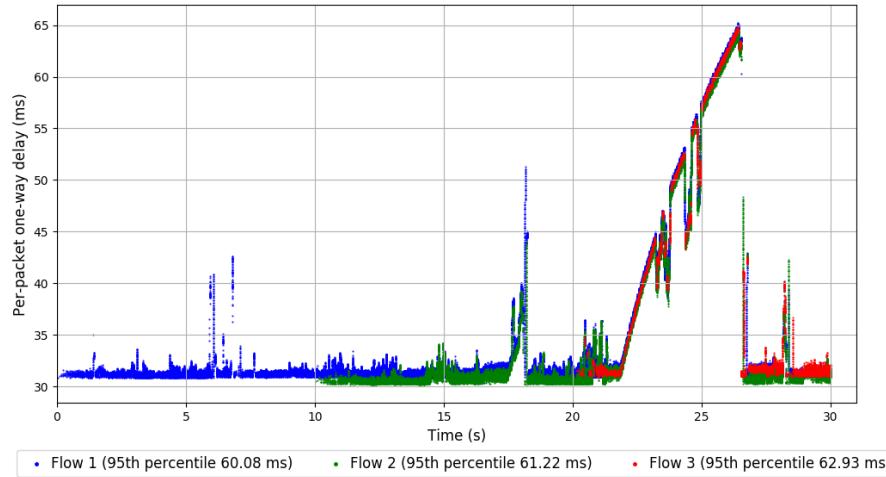
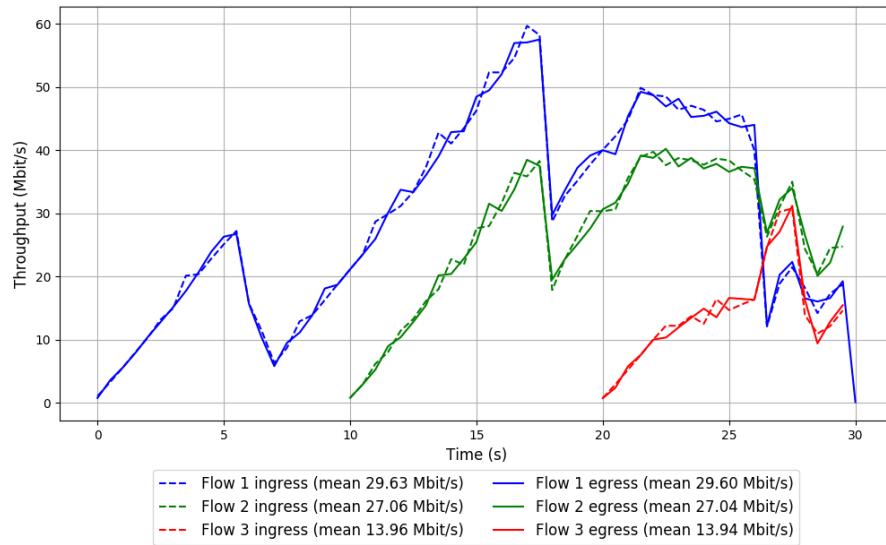


Run 9: Statistics of LEDBAT

```
Start at: 2018-04-25 00:44:54
End at: 2018-04-25 00:45:24
Local clock offset: 1.078 ms
Remote clock offset: -0.387 ms

# Below is generated by plot.py at 2018-04-25 01:44:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 52.23 Mbit/s
95th percentile per-packet one-way delay: 61.011 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 29.60 Mbit/s
95th percentile per-packet one-way delay: 60.076 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 27.04 Mbit/s
95th percentile per-packet one-way delay: 61.216 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 13.94 Mbit/s
95th percentile per-packet one-way delay: 62.932 ms
Loss rate: 0.11%
```

Run 9: Report of LEDBAT — Data Link

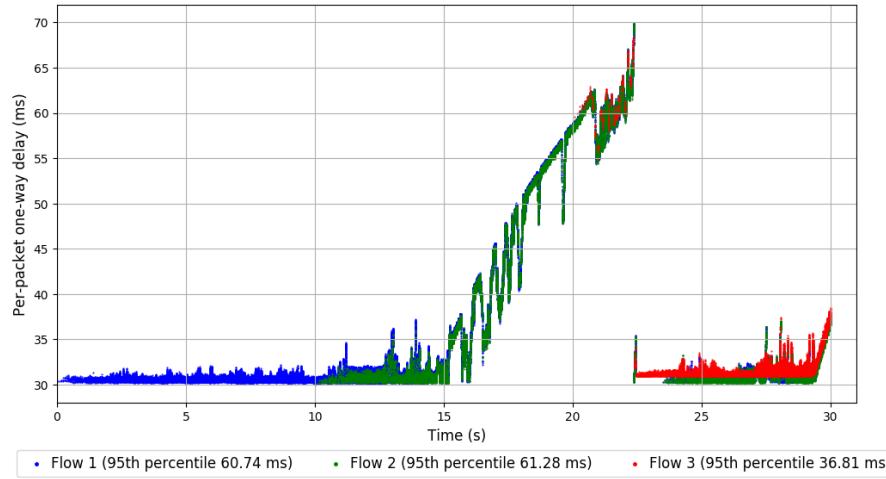
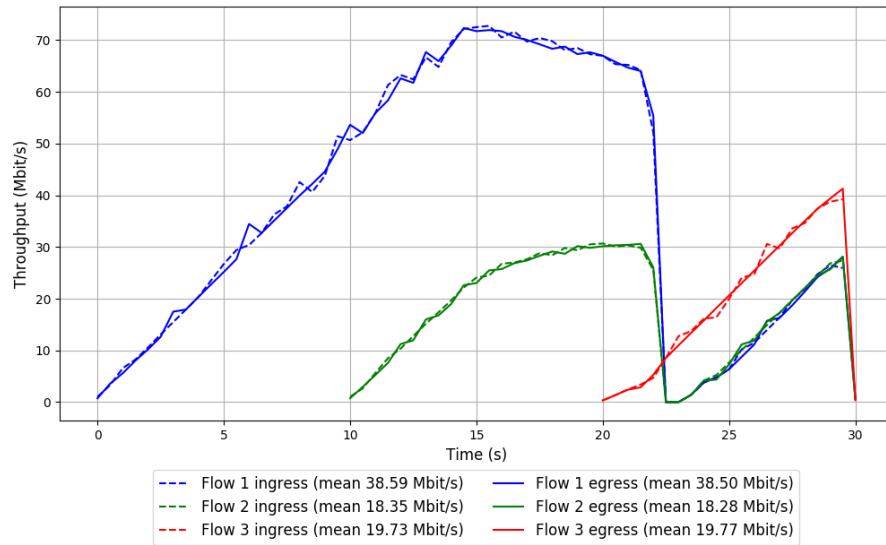


Run 10: Statistics of LEDBAT

```
Start at: 2018-04-25 01:12:24
End at: 2018-04-25 01:12:54
Local clock offset: 1.075 ms
Remote clock offset: -4.243 ms

# Below is generated by plot.py at 2018-04-25 01:44:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 57.22 Mbit/s
95th percentile per-packet one-way delay: 60.762 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 38.50 Mbit/s
95th percentile per-packet one-way delay: 60.745 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 18.28 Mbit/s
95th percentile per-packet one-way delay: 61.285 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 19.77 Mbit/s
95th percentile per-packet one-way delay: 36.806 ms
Loss rate: 0.00%
```

Run 10: Report of LEDBAT — Data Link

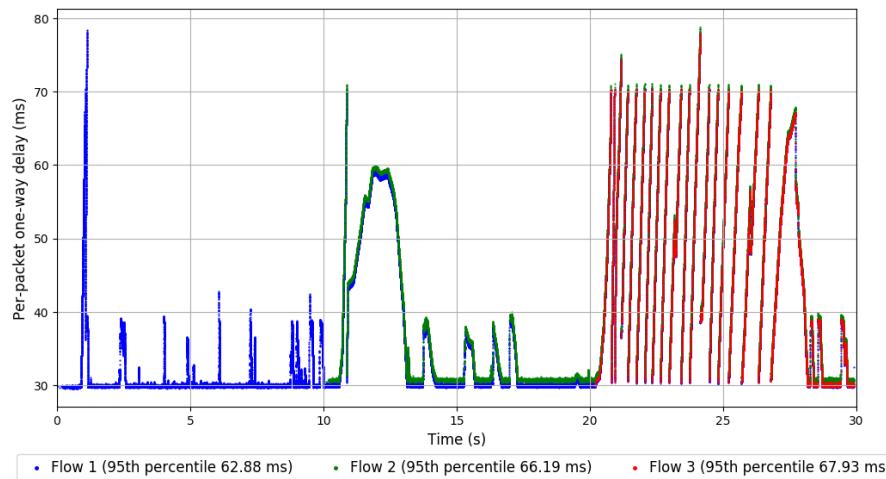
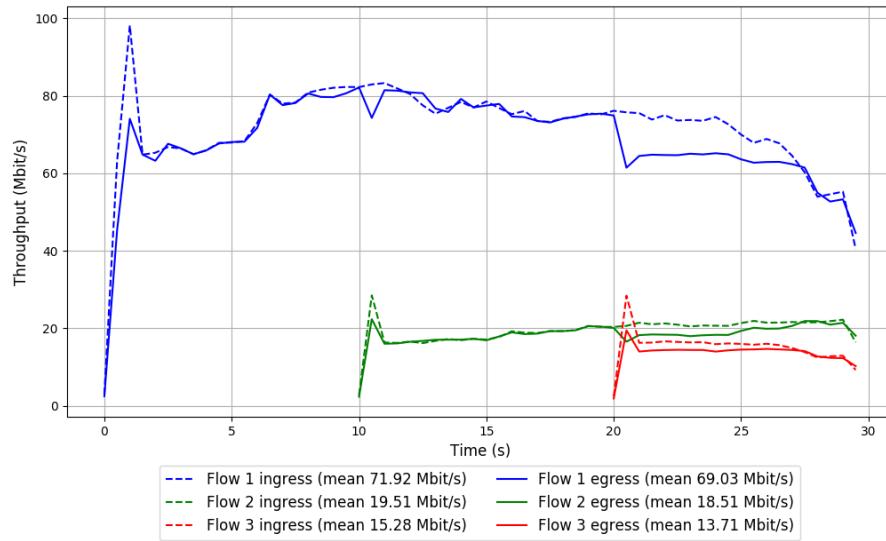


Run 1: Statistics of PCC-Allegro

```
Start at: 2018-04-24 21:21:15
End at: 2018-04-24 21:21:45
Local clock offset: 1.332 ms
Remote clock offset: -0.264 ms

# Below is generated by plot.py at 2018-04-25 01:44:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.86 Mbit/s
95th percentile per-packet one-way delay: 64.239 ms
Loss rate: 4.52%
-- Flow 1:
Average throughput: 69.03 Mbit/s
95th percentile per-packet one-way delay: 62.875 ms
Loss rate: 4.00%
-- Flow 2:
Average throughput: 18.51 Mbit/s
95th percentile per-packet one-way delay: 66.190 ms
Loss rate: 5.15%
-- Flow 3:
Average throughput: 13.71 Mbit/s
95th percentile per-packet one-way delay: 67.930 ms
Loss rate: 10.25%
```

Run 1: Report of PCC-Allegro — Data Link

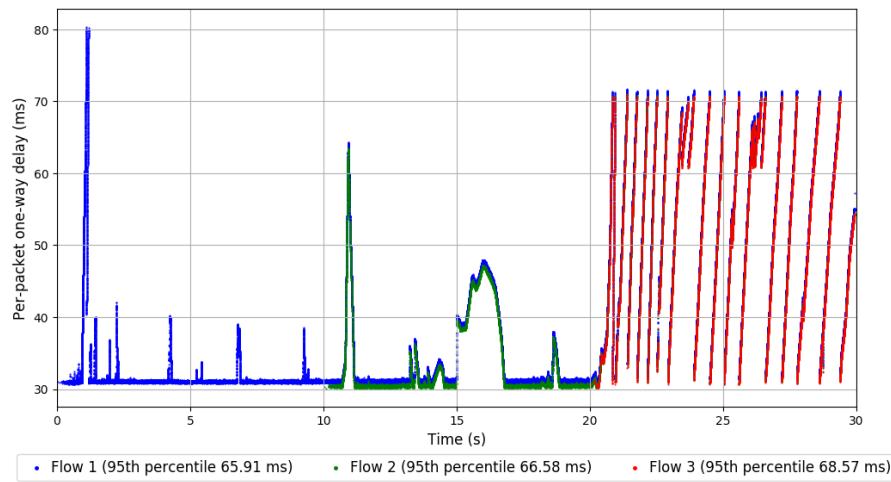
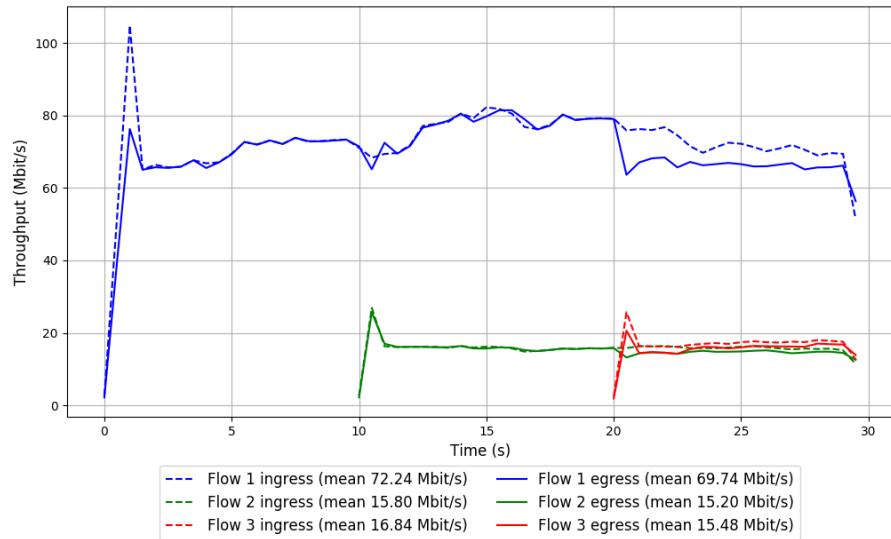


Run 2: Statistics of PCC-Allegro

```
Start at: 2018-04-24 21:46:25
End at: 2018-04-24 21:46:55
Local clock offset: 0.735 ms
Remote clock offset: -0.264 ms

# Below is generated by plot.py at 2018-04-25 01:44:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.96 Mbit/s
95th percentile per-packet one-way delay: 66.413 ms
Loss rate: 3.70%
-- Flow 1:
Average throughput: 69.74 Mbit/s
95th percentile per-packet one-way delay: 65.909 ms
Loss rate: 3.38%
-- Flow 2:
Average throughput: 15.20 Mbit/s
95th percentile per-packet one-way delay: 66.578 ms
Loss rate: 3.67%
-- Flow 3:
Average throughput: 15.48 Mbit/s
95th percentile per-packet one-way delay: 68.574 ms
Loss rate: 7.86%
```

Run 2: Report of PCC-Allegro — Data Link

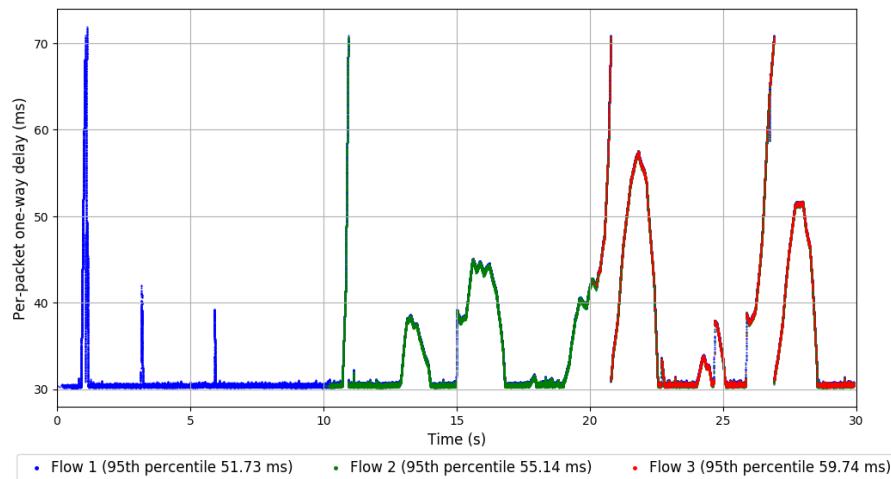
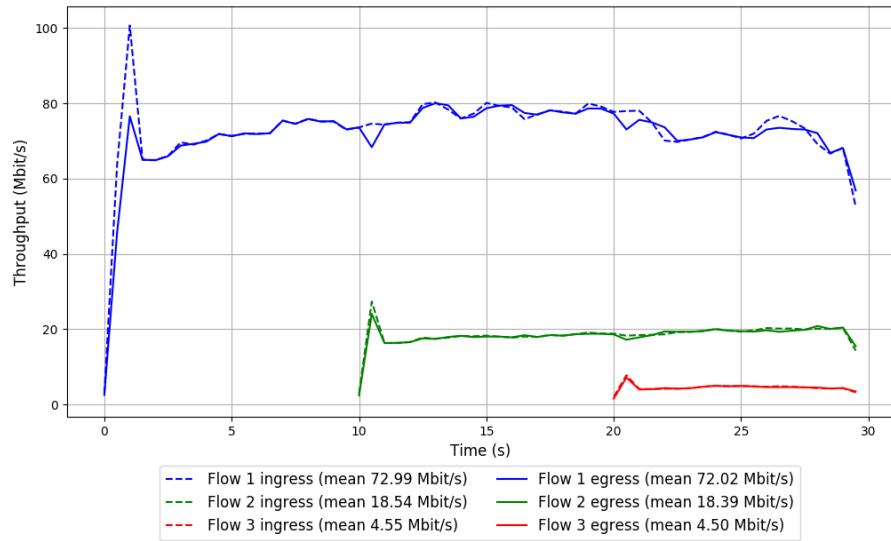


Run 3: Statistics of PCC-Allegro

```
Start at: 2018-04-24 22:11:56
End at: 2018-04-24 22:12:26
Local clock offset: 0.324 ms
Remote clock offset: 0.35 ms

# Below is generated by plot.py at 2018-04-25 01:45:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.73 Mbit/s
95th percentile per-packet one-way delay: 53.131 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 72.02 Mbit/s
95th percentile per-packet one-way delay: 51.733 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 18.39 Mbit/s
95th percentile per-packet one-way delay: 55.138 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 4.50 Mbit/s
95th percentile per-packet one-way delay: 59.736 ms
Loss rate: 1.32%
```

Run 3: Report of PCC-Allegro — Data Link

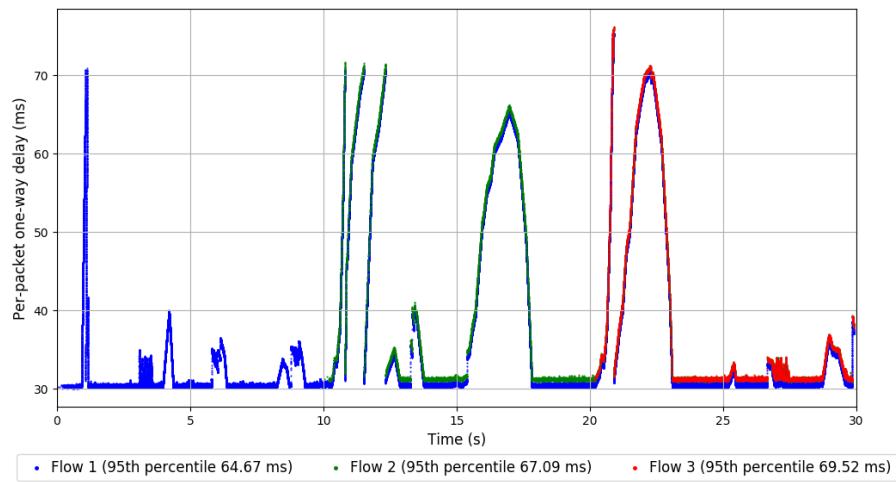
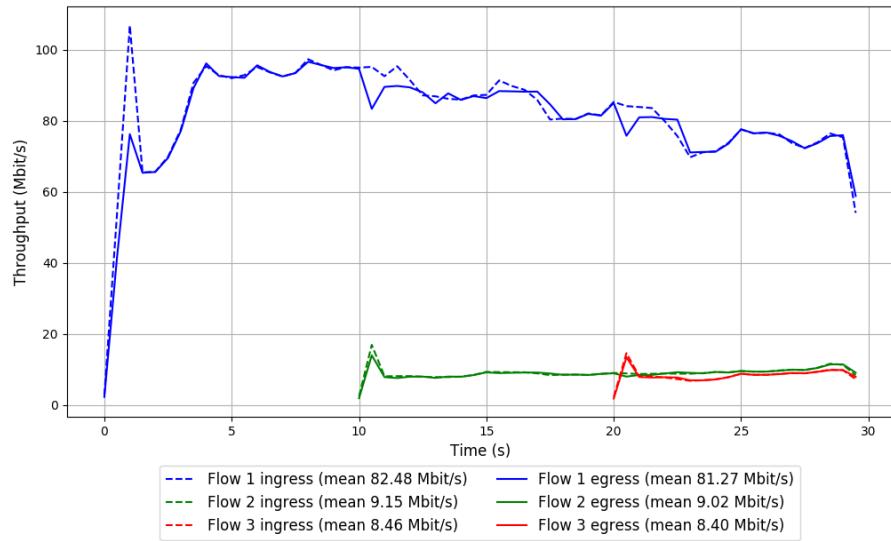


Run 4: Statistics of PCC-Allegro

```
Start at: 2018-04-24 22:36:15
End at: 2018-04-24 22:36:45
Local clock offset: 0.247 ms
Remote clock offset: 0.256 ms

# Below is generated by plot.py at 2018-04-25 01:45:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.04 Mbit/s
95th percentile per-packet one-way delay: 64.989 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 81.27 Mbit/s
95th percentile per-packet one-way delay: 64.671 ms
Loss rate: 1.44%
-- Flow 2:
Average throughput: 9.02 Mbit/s
95th percentile per-packet one-way delay: 67.090 ms
Loss rate: 1.35%
-- Flow 3:
Average throughput: 8.40 Mbit/s
95th percentile per-packet one-way delay: 69.524 ms
Loss rate: 0.62%
```

Run 4: Report of PCC-Allegro — Data Link

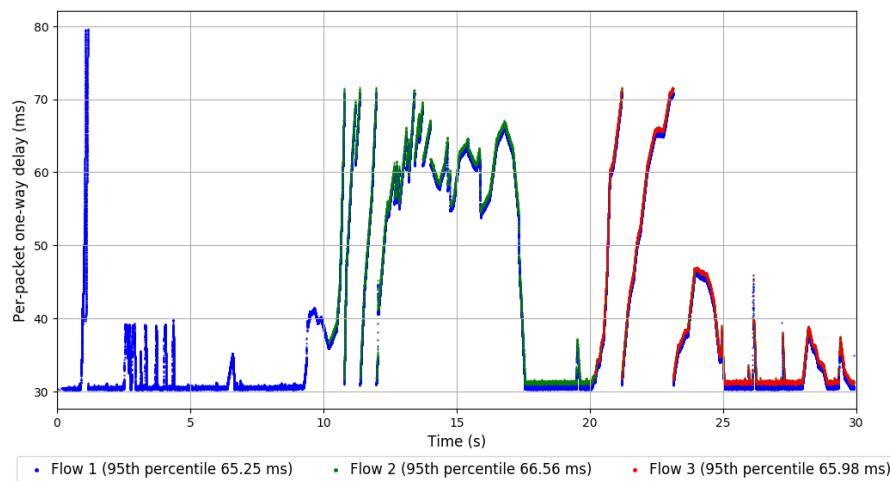
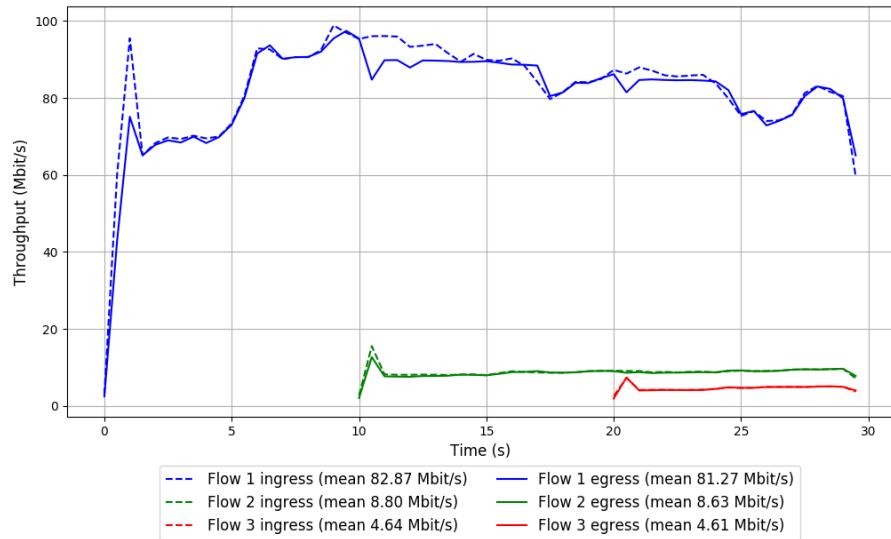


Run 5: Statistics of PCC-Allegro

```
Start at: 2018-04-24 23:00:44
End at: 2018-04-24 23:01:14
Local clock offset: 0.615 ms
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2018-04-25 01:45:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.53 Mbit/s
95th percentile per-packet one-way delay: 65.415 ms
Loss rate: 1.90%
-- Flow 1:
Average throughput: 81.27 Mbit/s
95th percentile per-packet one-way delay: 65.253 ms
Loss rate: 1.92%
-- Flow 2:
Average throughput: 8.63 Mbit/s
95th percentile per-packet one-way delay: 66.564 ms
Loss rate: 2.01%
-- Flow 3:
Average throughput: 4.61 Mbit/s
95th percentile per-packet one-way delay: 65.978 ms
Loss rate: 0.75%
```

Run 5: Report of PCC-Allegro — Data Link

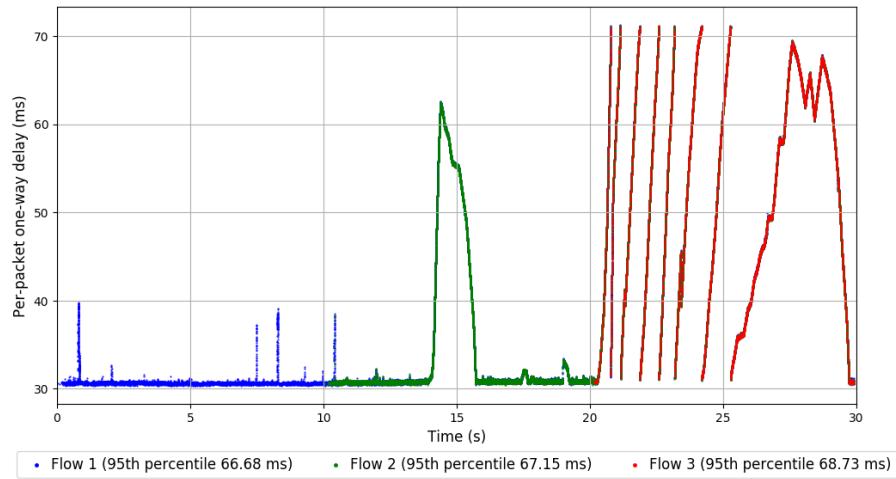
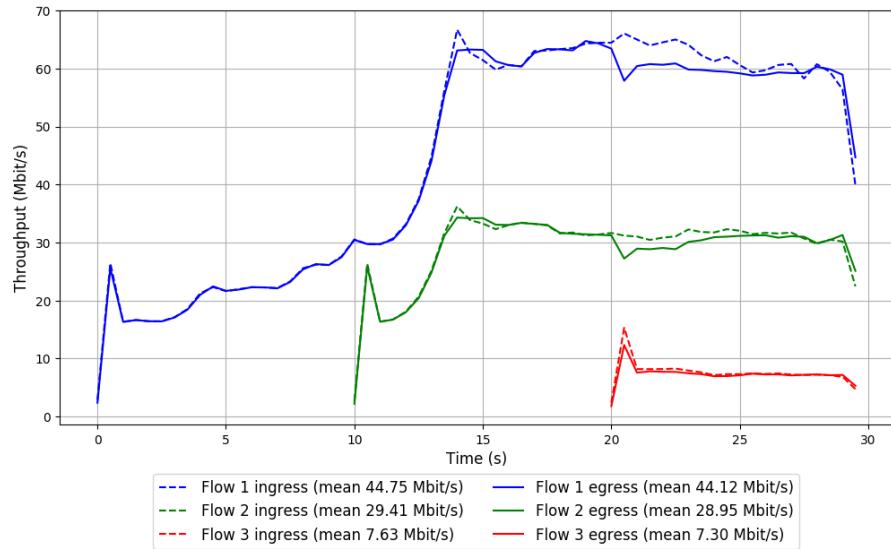


Run 6: Statistics of PCC-Allegro

```
Start at: 2018-04-24 23:26:22
End at: 2018-04-24 23:26:52
Local clock offset: 0.768 ms
Remote clock offset: 0.539 ms

# Below is generated by plot.py at 2018-04-25 01:45:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.77 Mbit/s
95th percentile per-packet one-way delay: 66.985 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 44.12 Mbit/s
95th percentile per-packet one-way delay: 66.681 ms
Loss rate: 1.41%
-- Flow 2:
Average throughput: 28.95 Mbit/s
95th percentile per-packet one-way delay: 67.151 ms
Loss rate: 1.58%
-- Flow 3:
Average throughput: 7.30 Mbit/s
95th percentile per-packet one-way delay: 68.731 ms
Loss rate: 4.37%
```

Run 6: Report of PCC-Allegro — Data Link

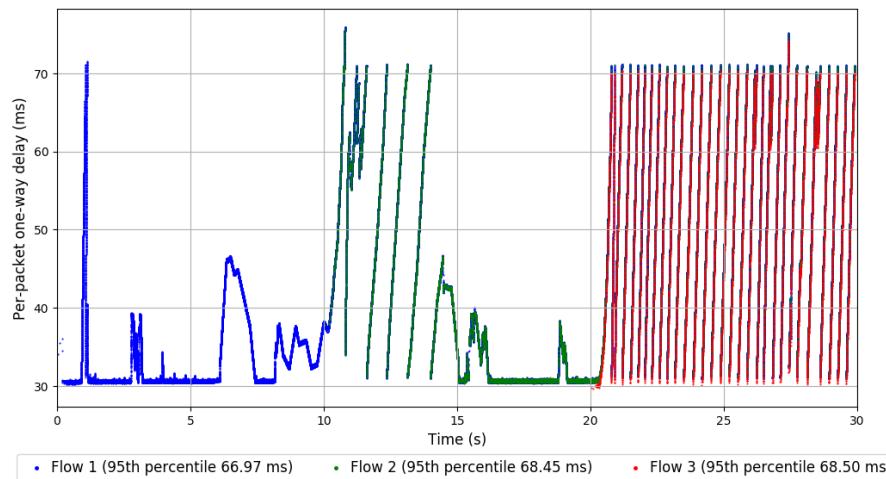
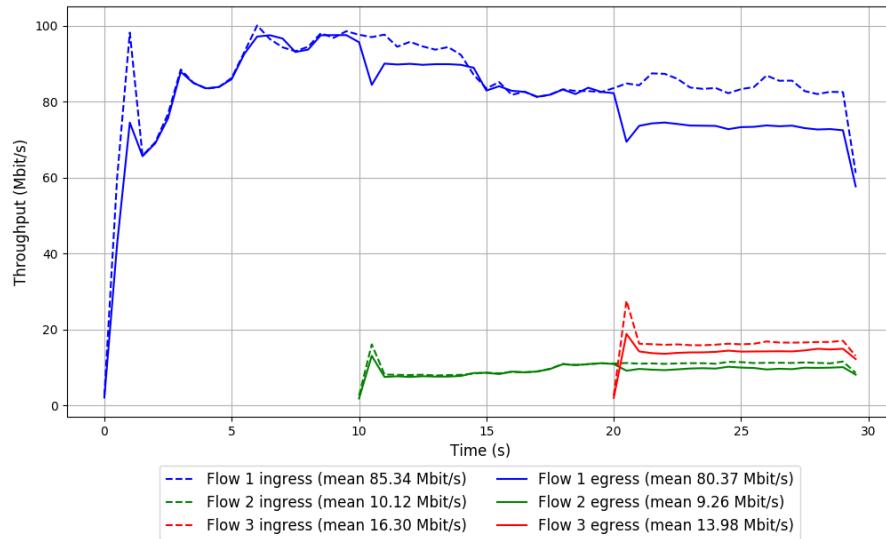


Run 7: Statistics of PCC-Allegro

```
Start at: 2018-04-24 23:51:18
End at: 2018-04-24 23:51:48
Local clock offset: 0.803 ms
Remote clock offset: 0.291 ms

# Below is generated by plot.py at 2018-04-25 01:45:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.14 Mbit/s
95th percentile per-packet one-way delay: 67.271 ms
Loss rate: 6.48%
-- Flow 1:
Average throughput: 80.37 Mbit/s
95th percentile per-packet one-way delay: 66.971 ms
Loss rate: 5.83%
-- Flow 2:
Average throughput: 9.26 Mbit/s
95th percentile per-packet one-way delay: 68.449 ms
Loss rate: 8.47%
-- Flow 3:
Average throughput: 13.98 Mbit/s
95th percentile per-packet one-way delay: 68.504 ms
Loss rate: 14.24%
```

Run 7: Report of PCC-Allegro — Data Link

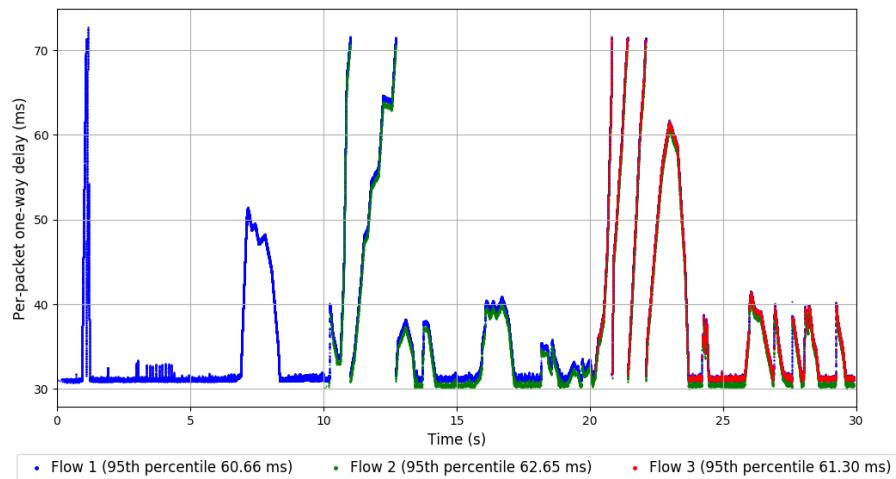
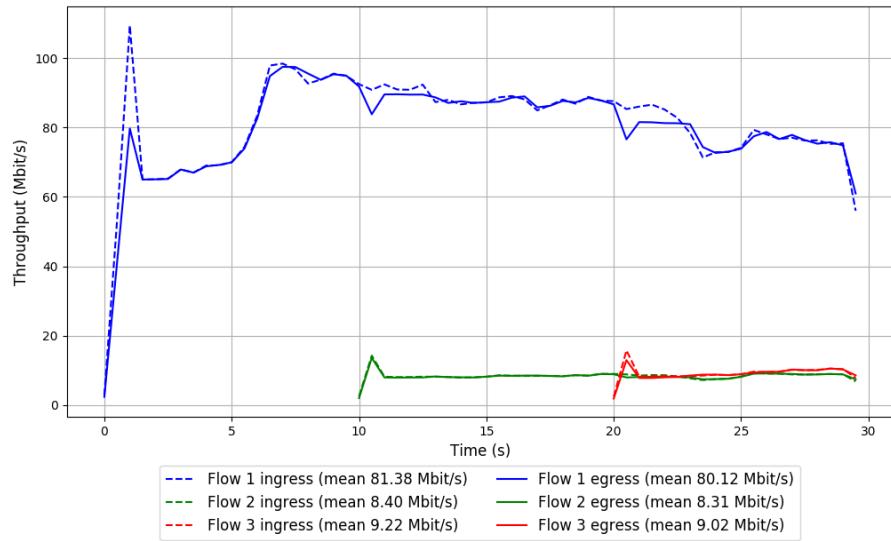


Run 8: Statistics of PCC-Allegro

```
Start at: 2018-04-25 00:17:06
End at: 2018-04-25 00:17:36
Local clock offset: 1.046 ms
Remote clock offset: 0.483 ms

# Below is generated by plot.py at 2018-04-25 01:45:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.62 Mbit/s
95th percentile per-packet one-way delay: 60.789 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 80.12 Mbit/s
95th percentile per-packet one-way delay: 60.657 ms
Loss rate: 1.56%
-- Flow 2:
Average throughput: 8.31 Mbit/s
95th percentile per-packet one-way delay: 62.650 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 9.02 Mbit/s
95th percentile per-packet one-way delay: 61.301 ms
Loss rate: 2.19%
```

Run 8: Report of PCC-Allegro — Data Link

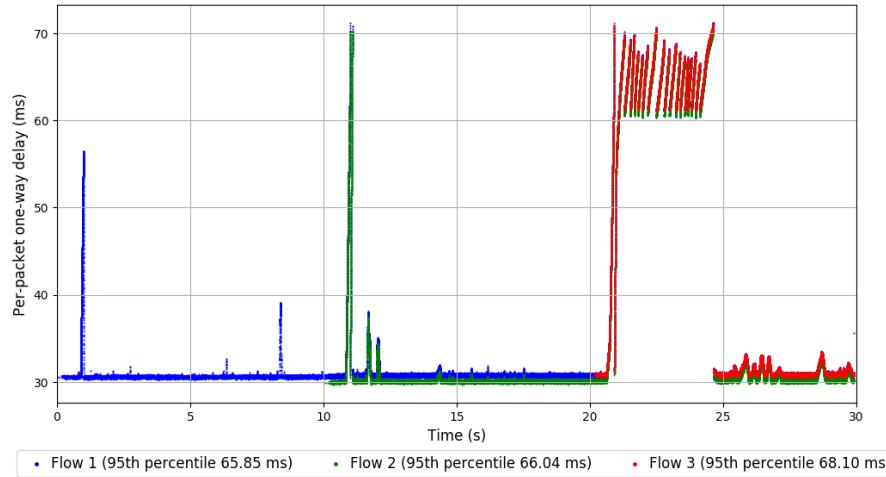
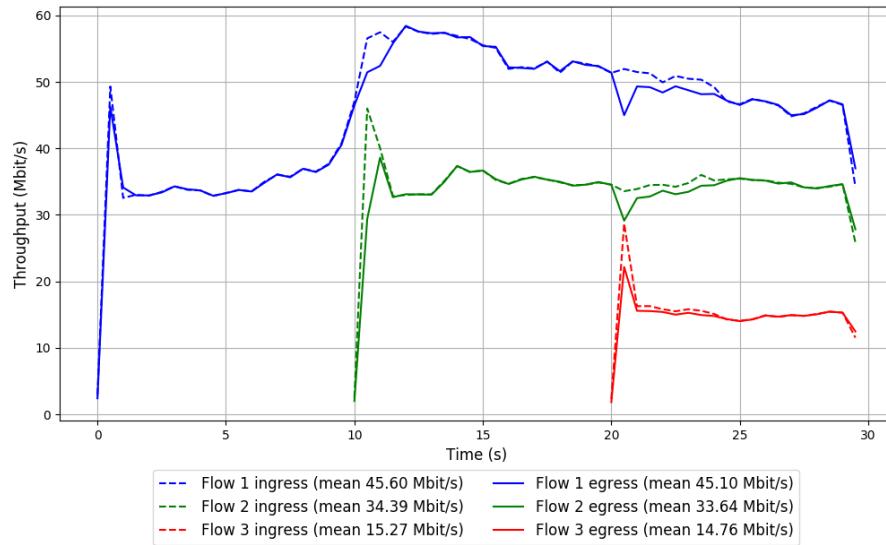


Run 9: Statistics of PCC-Allegro

```
Start at: 2018-04-25 00:43:27
End at: 2018-04-25 00:43:57
Local clock offset: 1.055 ms
Remote clock offset: -0.721 ms

# Below is generated by plot.py at 2018-04-25 01:46:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.33 Mbit/s
95th percentile per-packet one-way delay: 66.206 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 45.10 Mbit/s
95th percentile per-packet one-way delay: 65.846 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 33.64 Mbit/s
95th percentile per-packet one-way delay: 66.037 ms
Loss rate: 2.19%
-- Flow 3:
Average throughput: 14.76 Mbit/s
95th percentile per-packet one-way delay: 68.097 ms
Loss rate: 3.33%
```

Run 9: Report of PCC-Allegro — Data Link

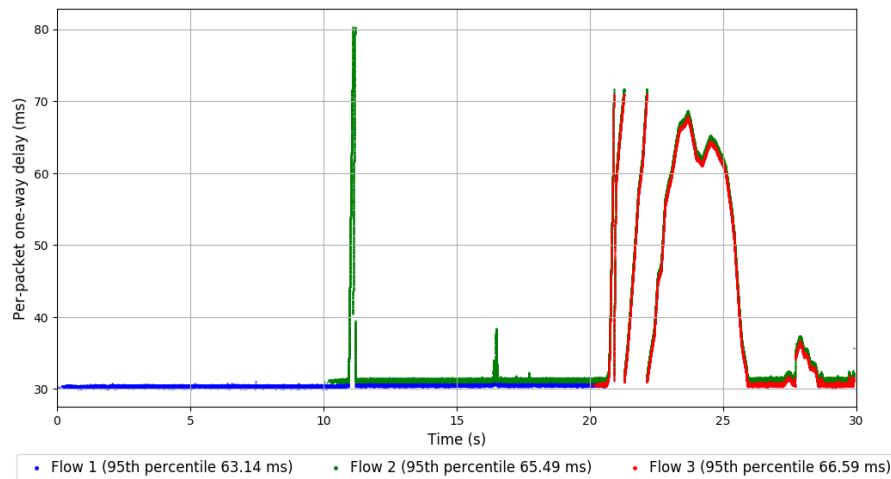
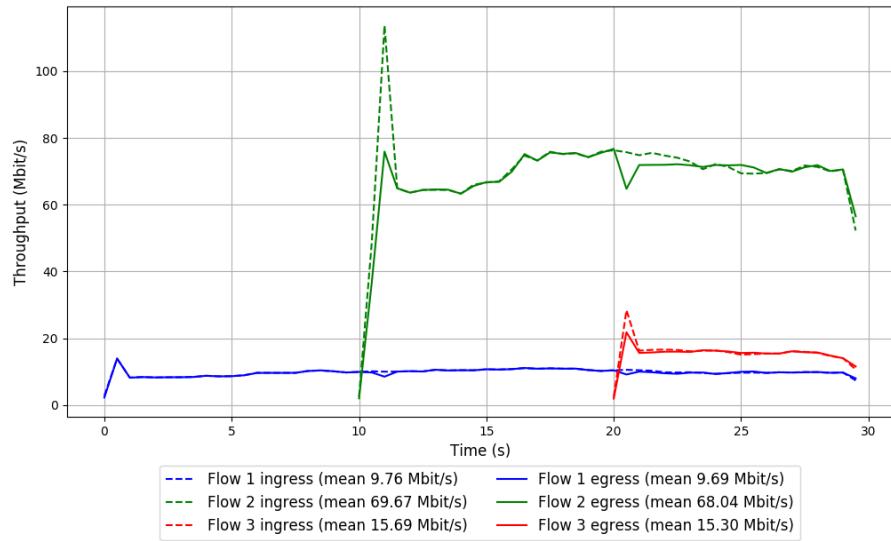


```
Run 10: Statistics of PCC-Allegro

Start at: 2018-04-25 01:10:50
End at: 2018-04-25 01:11:20
Local clock offset: 1.025 ms
Remote clock offset: -4.103 ms

# Below is generated by plot.py at 2018-04-25 01:46:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.97 Mbit/s
95th percentile per-packet one-way delay: 65.330 ms
Loss rate: 2.09%
-- Flow 1:
Average throughput: 9.69 Mbit/s
95th percentile per-packet one-way delay: 63.144 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 68.04 Mbit/s
95th percentile per-packet one-way delay: 65.493 ms
Loss rate: 2.33%
-- Flow 3:
Average throughput: 15.30 Mbit/s
95th percentile per-packet one-way delay: 66.589 ms
Loss rate: 2.53%
```

Run 10: Report of PCC-Allegro — Data Link

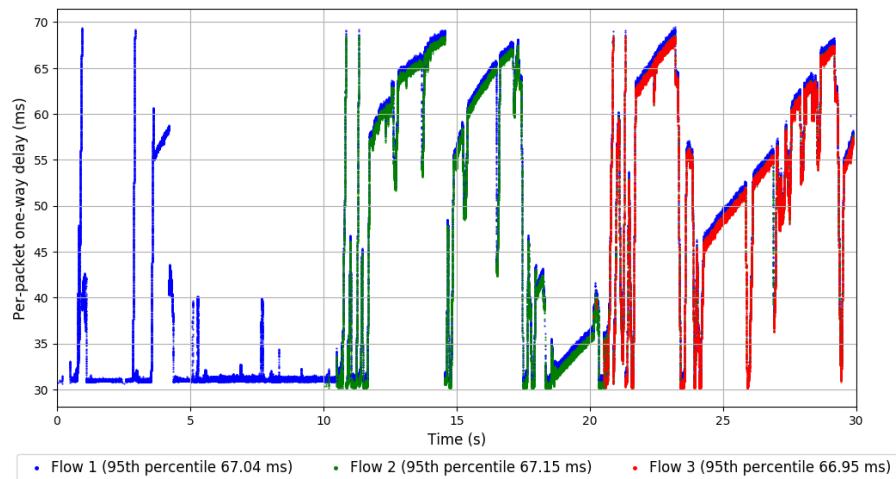
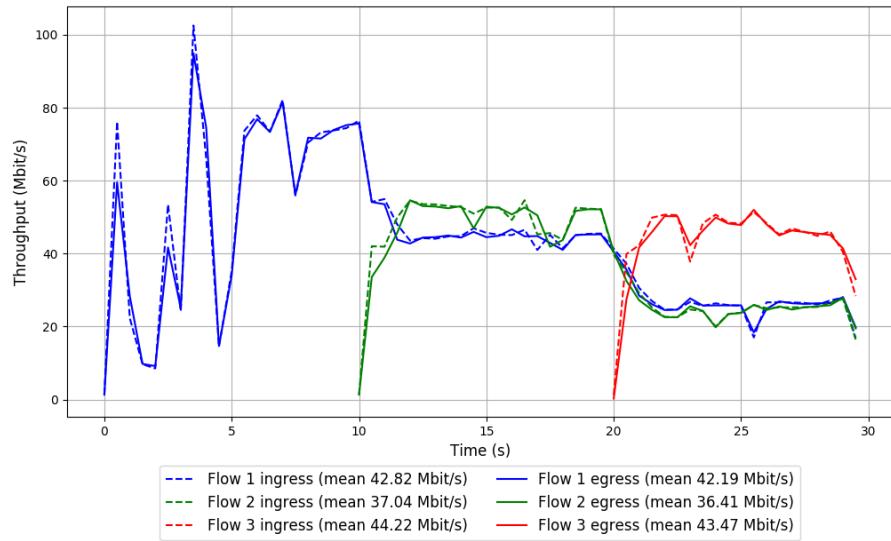


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-04-24 21:01:22
End at: 2018-04-24 21:01:52
Local clock offset: 1.275 ms
Remote clock offset: 0.409 ms

# Below is generated by plot.py at 2018-04-25 01:46:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.68 Mbit/s
95th percentile per-packet one-way delay: 67.049 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 42.19 Mbit/s
95th percentile per-packet one-way delay: 67.041 ms
Loss rate: 1.40%
-- Flow 2:
Average throughput: 36.41 Mbit/s
95th percentile per-packet one-way delay: 67.151 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 43.47 Mbit/s
95th percentile per-packet one-way delay: 66.953 ms
Loss rate: 1.50%
```

Run 1: Report of QUIC Cubic — Data Link

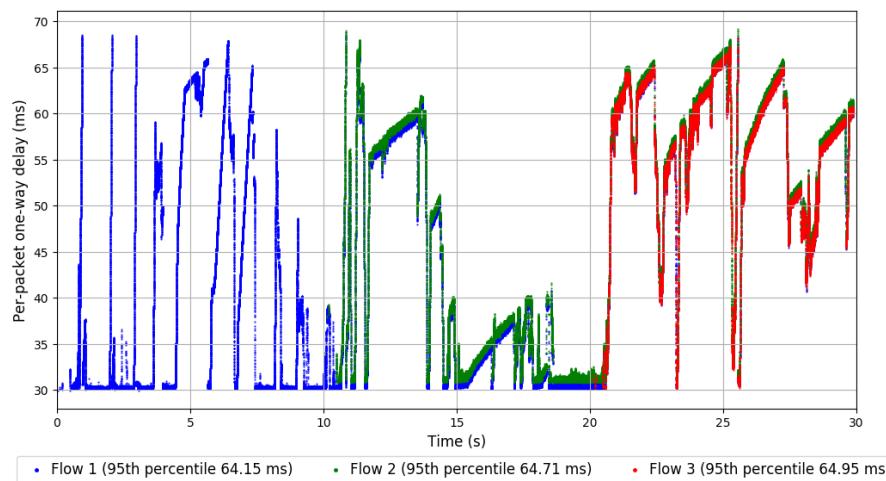
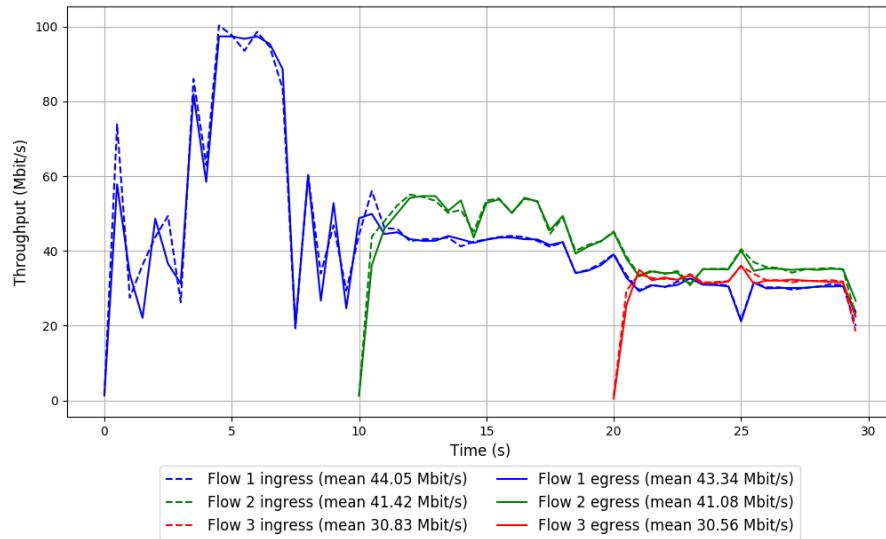


Run 2: Statistics of QUIC Cubic

```
Start at: 2018-04-24 21:26:45
End at: 2018-04-24 21:27:15
Local clock offset: 1.355 ms
Remote clock offset: 0.091 ms

# Below is generated by plot.py at 2018-04-25 01:46:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.69 Mbit/s
95th percentile per-packet one-way delay: 64.528 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 43.34 Mbit/s
95th percentile per-packet one-way delay: 64.153 ms
Loss rate: 1.52%
-- Flow 2:
Average throughput: 41.08 Mbit/s
95th percentile per-packet one-way delay: 64.709 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 30.56 Mbit/s
95th percentile per-packet one-way delay: 64.954 ms
Loss rate: 0.60%
```

Run 2: Report of QUIC Cubic — Data Link

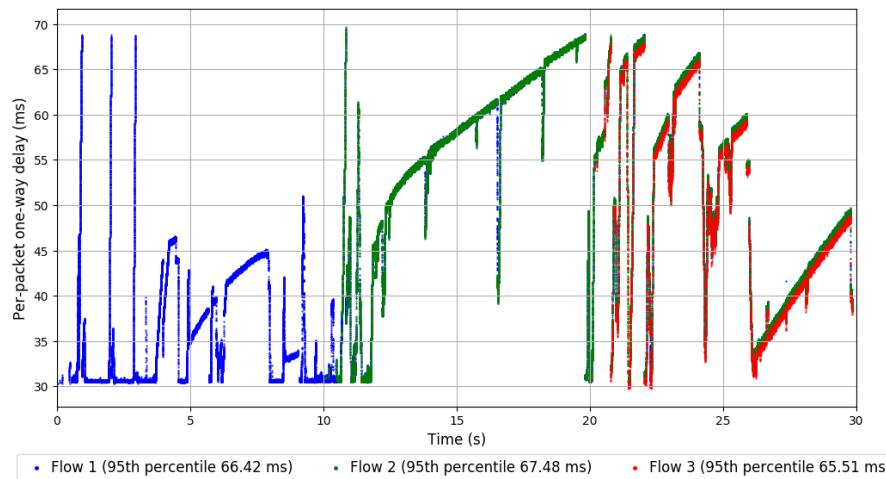
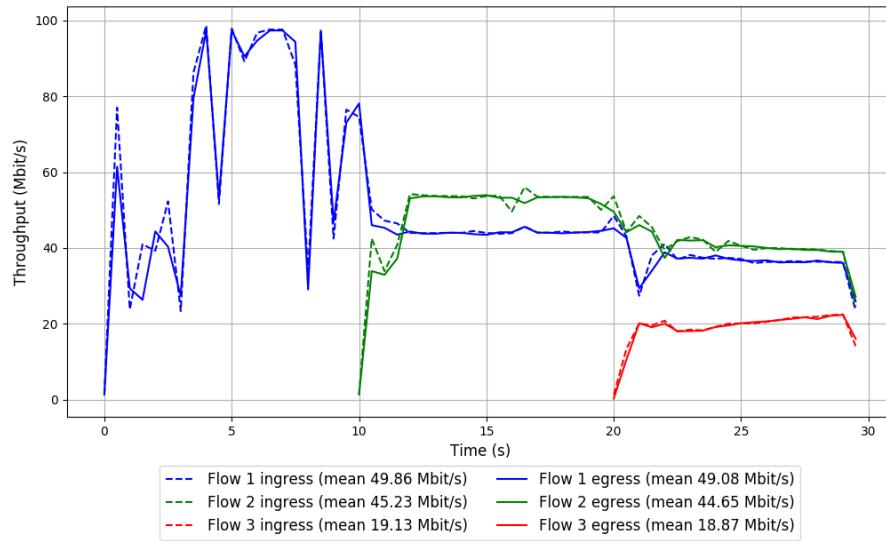


Run 3: Statistics of QUIC Cubic

```
Start at: 2018-04-24 21:52:05
End at: 2018-04-24 21:52:35
Local clock offset: 0.53 ms
Remote clock offset: -0.82 ms

# Below is generated by plot.py at 2018-04-25 01:46:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.94 Mbit/s
95th percentile per-packet one-way delay: 66.911 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 49.08 Mbit/s
95th percentile per-packet one-way delay: 66.420 ms
Loss rate: 1.53%
-- Flow 2:
Average throughput: 44.65 Mbit/s
95th percentile per-packet one-way delay: 67.484 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 18.87 Mbit/s
95th percentile per-packet one-way delay: 65.514 ms
Loss rate: 1.25%
```

Run 3: Report of QUIC Cubic — Data Link

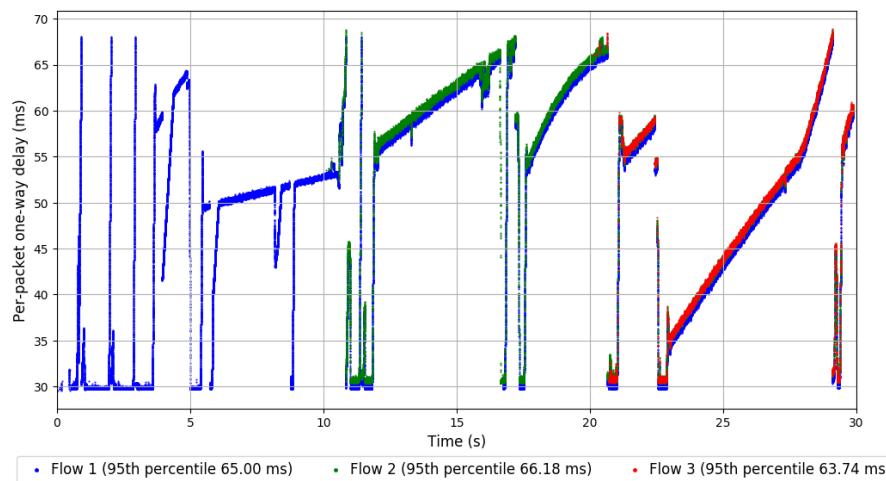
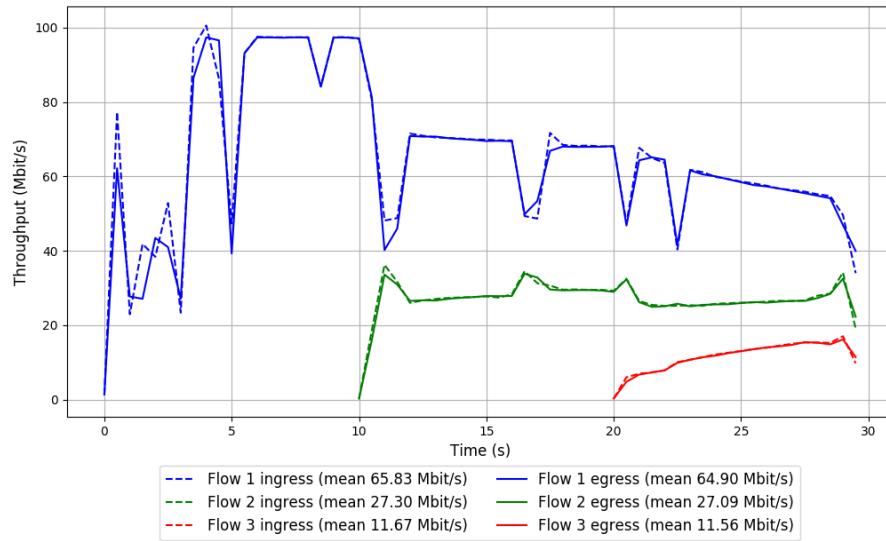


Run 4: Statistics of QUIC Cubic

```
Start at: 2018-04-24 22:17:36
End at: 2018-04-24 22:18:06
Local clock offset: 0.378 ms
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2018-04-25 01:46:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.64 Mbit/s
95th percentile per-packet one-way delay: 65.304 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 64.90 Mbit/s
95th percentile per-packet one-way delay: 65.000 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 27.09 Mbit/s
95th percentile per-packet one-way delay: 66.184 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 11.56 Mbit/s
95th percentile per-packet one-way delay: 63.744 ms
Loss rate: 0.95%
```

Run 4: Report of QUIC Cubic — Data Link

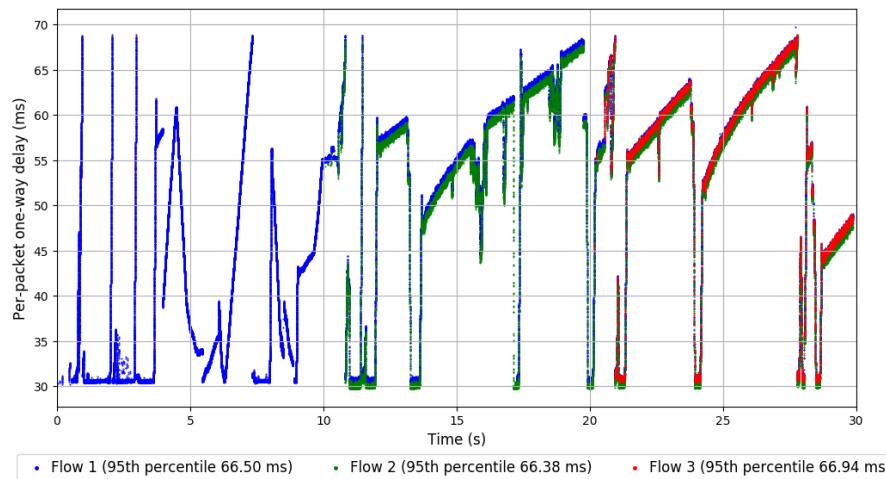
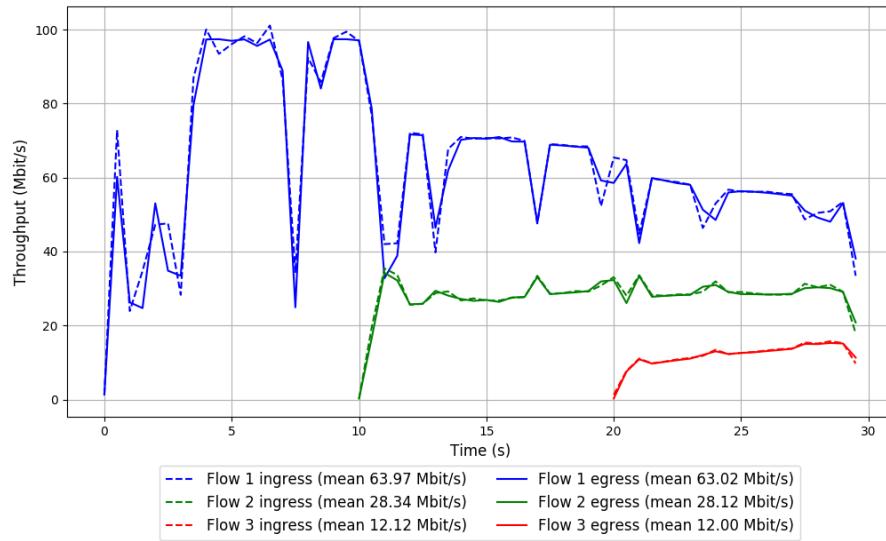


Run 5: Statistics of QUIC Cubic

```
Start at: 2018-04-24 22:41:45
End at: 2018-04-24 22:42:15
Local clock offset: 0.119 ms
Remote clock offset: -0.369 ms

# Below is generated by plot.py at 2018-04-25 01:47:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.60 Mbit/s
95th percentile per-packet one-way delay: 66.469 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 63.02 Mbit/s
95th percentile per-packet one-way delay: 66.503 ms
Loss rate: 1.42%
-- Flow 2:
Average throughput: 28.12 Mbit/s
95th percentile per-packet one-way delay: 66.378 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 12.00 Mbit/s
95th percentile per-packet one-way delay: 66.945 ms
Loss rate: 0.85%
```

Run 5: Report of QUIC Cubic — Data Link

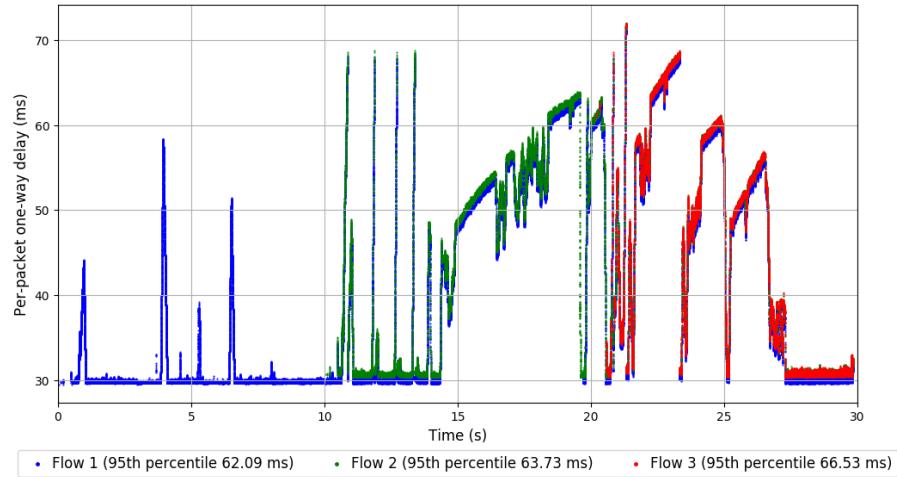
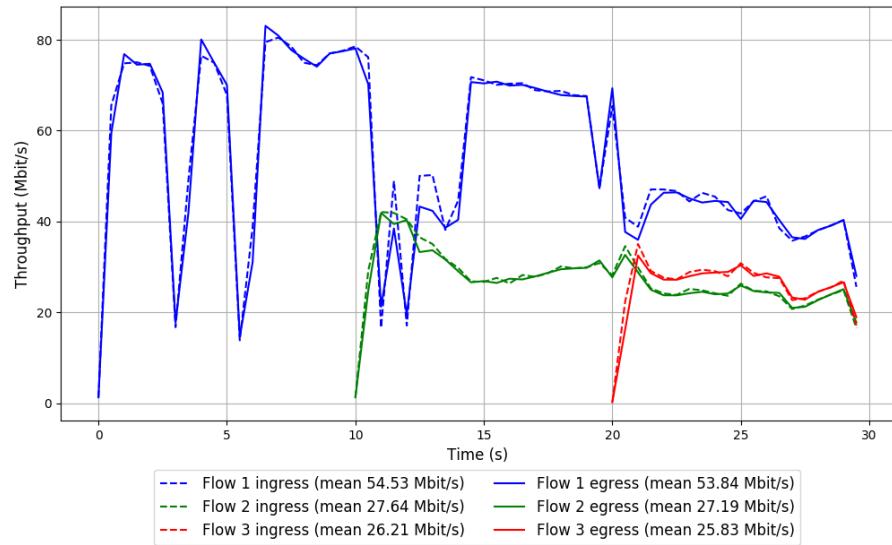


Run 6: Statistics of QUIC Cubic

```
Start at: 2018-04-24 23:06:19
End at: 2018-04-24 23:06:49
Local clock offset: 0.707 ms
Remote clock offset: -0.207 ms

# Below is generated by plot.py at 2018-04-25 01:47:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.33 Mbit/s
95th percentile per-packet one-way delay: 63.054 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 53.84 Mbit/s
95th percentile per-packet one-way delay: 62.095 ms
Loss rate: 1.27%
-- Flow 2:
Average throughput: 27.19 Mbit/s
95th percentile per-packet one-way delay: 63.734 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 25.83 Mbit/s
95th percentile per-packet one-way delay: 66.526 ms
Loss rate: 1.75%
```

Run 6: Report of QUIC Cubic — Data Link

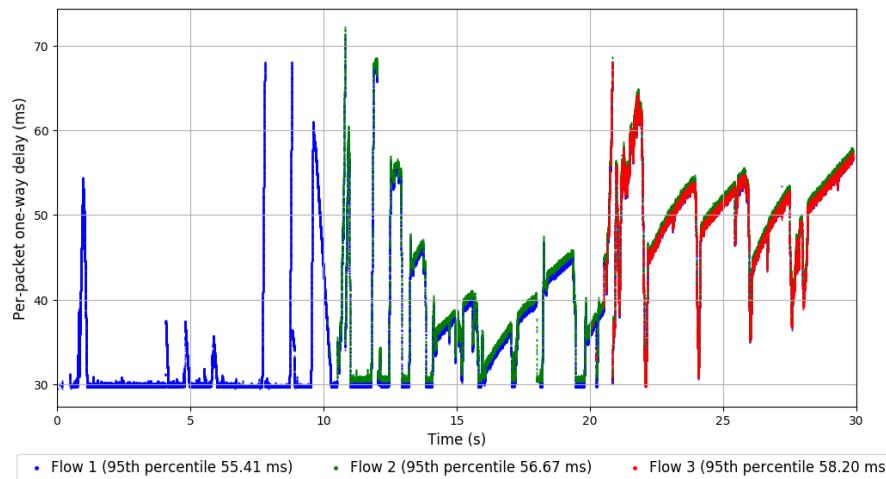
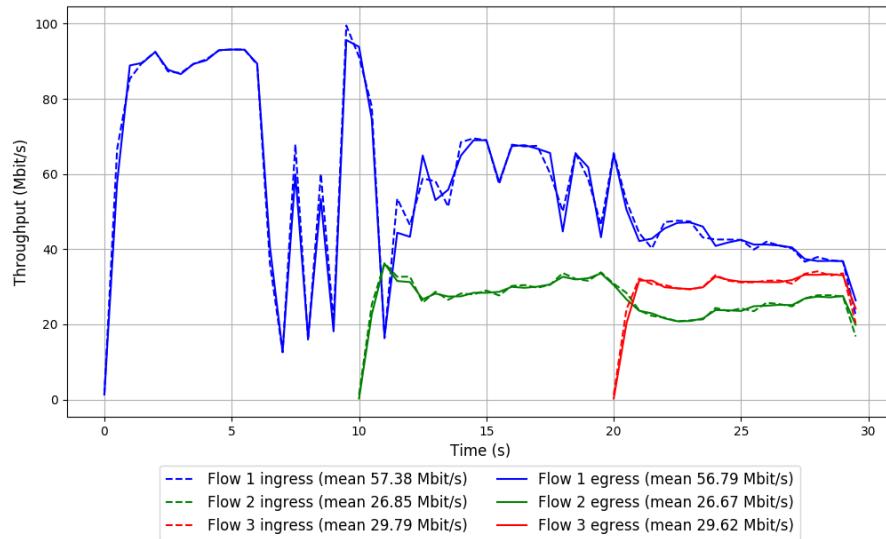


Run 7: Statistics of QUIC Cubic

```
Start at: 2018-04-24 23:31:49
End at: 2018-04-24 23:32:19
Local clock offset: 0.755 ms
Remote clock offset: 0.431 ms

# Below is generated by plot.py at 2018-04-25 01:47:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.22 Mbit/s
95th percentile per-packet one-way delay: 56.140 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 56.79 Mbit/s
95th percentile per-packet one-way delay: 55.414 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 26.67 Mbit/s
95th percentile per-packet one-way delay: 56.667 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 29.62 Mbit/s
95th percentile per-packet one-way delay: 58.197 ms
Loss rate: 0.36%
```

Run 7: Report of QUIC Cubic — Data Link

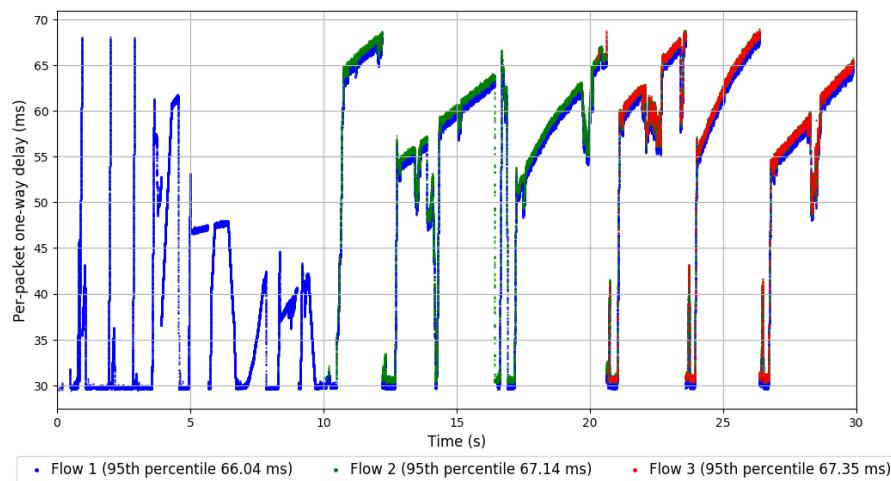
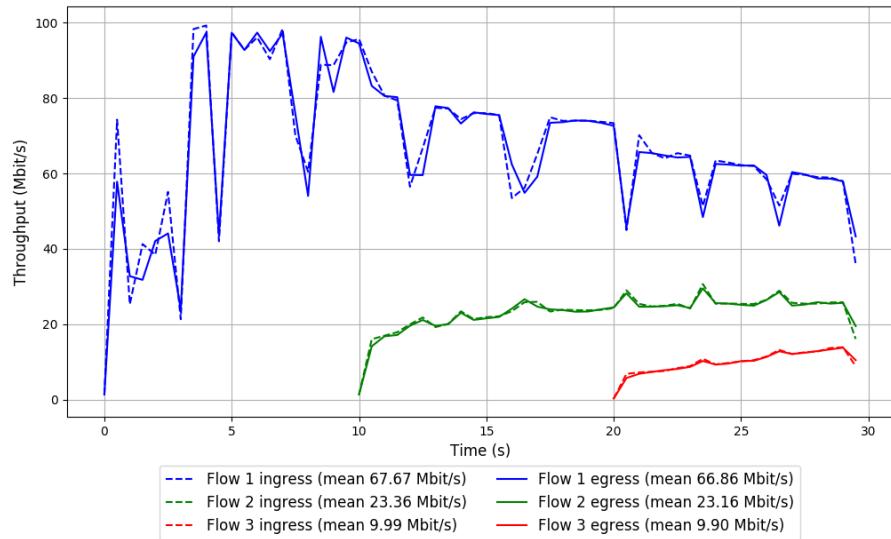


Run 8: Statistics of QUIC Cubic

```
Start at: 2018-04-24 23:56:49
End at: 2018-04-24 23:57:19
Local clock offset: 0.827 ms
Remote clock offset: 0.294 ms

# Below is generated by plot.py at 2018-04-25 01:47:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.49 Mbit/s
95th percentile per-packet one-way delay: 66.382 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 66.86 Mbit/s
95th percentile per-packet one-way delay: 66.040 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 23.16 Mbit/s
95th percentile per-packet one-way delay: 67.135 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 9.90 Mbit/s
95th percentile per-packet one-way delay: 67.349 ms
Loss rate: 1.00%
```

Run 8: Report of QUIC Cubic — Data Link

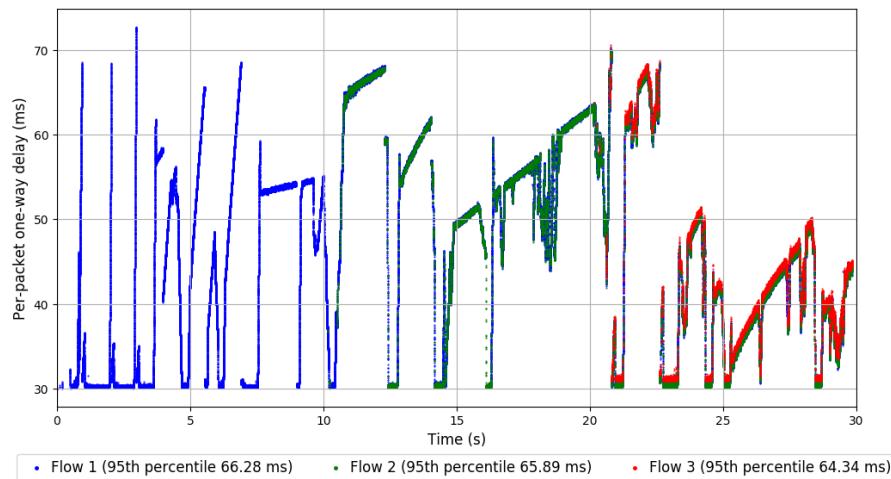
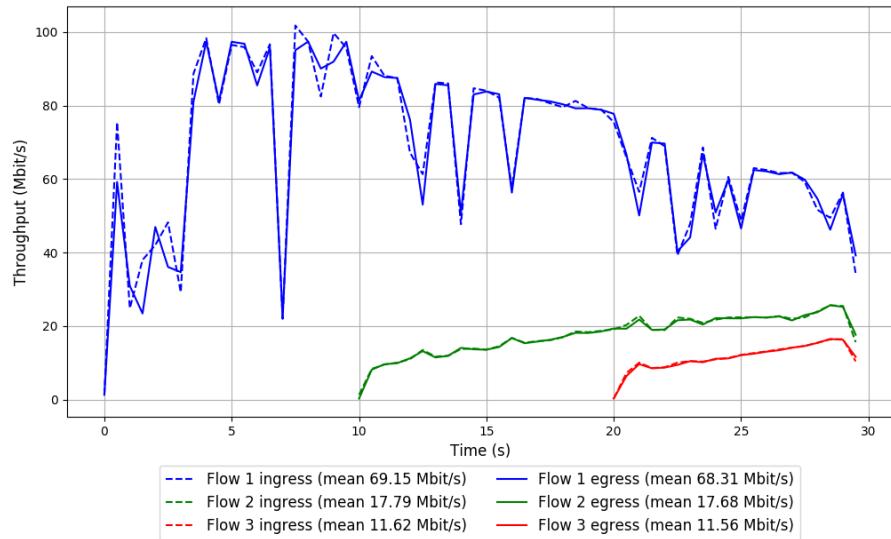


Run 9: Statistics of QUIC Cubic

```
Start at: 2018-04-25 00:22:37
End at: 2018-04-25 00:23:07
Local clock offset: 1.158 ms
Remote clock offset: 0.194 ms

# Below is generated by plot.py at 2018-04-25 01:48:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.81 Mbit/s
95th percentile per-packet one-way delay: 66.231 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 68.31 Mbit/s
95th percentile per-packet one-way delay: 66.279 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 17.68 Mbit/s
95th percentile per-packet one-way delay: 65.890 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 11.56 Mbit/s
95th percentile per-packet one-way delay: 64.340 ms
Loss rate: 0.70%
```

Run 9: Report of QUIC Cubic — Data Link

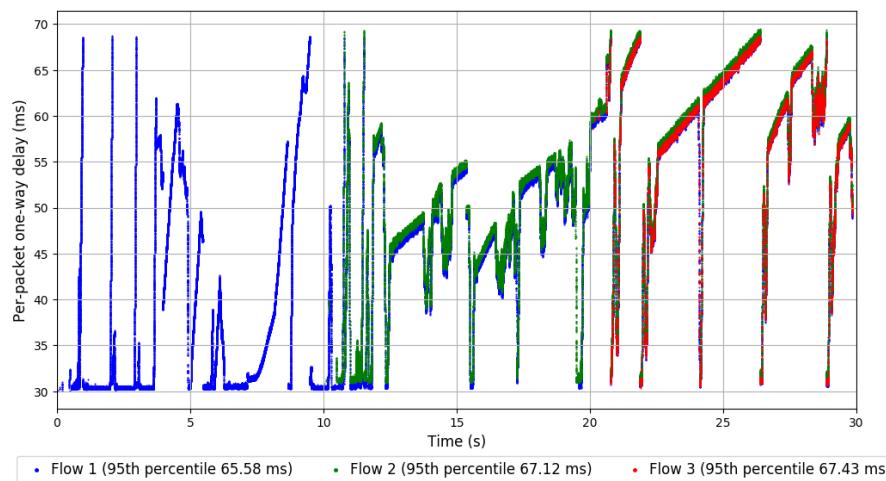
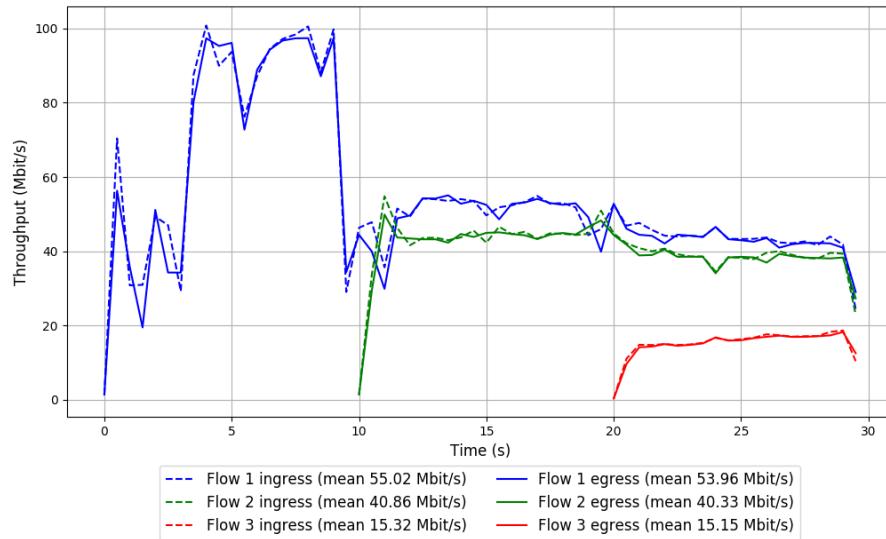


Run 10: Statistics of QUIC Cubic

```
Start at: 2018-04-25 00:49:03
End at: 2018-04-25 00:49:33
Local clock offset: 1.069 ms
Remote clock offset: -1.433 ms

# Below is generated by plot.py at 2018-04-25 01:48:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.71 Mbit/s
95th percentile per-packet one-way delay: 66.429 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 53.96 Mbit/s
95th percentile per-packet one-way delay: 65.584 ms
Loss rate: 1.86%
-- Flow 2:
Average throughput: 40.33 Mbit/s
95th percentile per-packet one-way delay: 67.124 ms
Loss rate: 1.19%
-- Flow 3:
Average throughput: 15.15 Mbit/s
95th percentile per-packet one-way delay: 67.434 ms
Loss rate: 1.21%
```

Run 10: Report of QUIC Cubic — Data Link

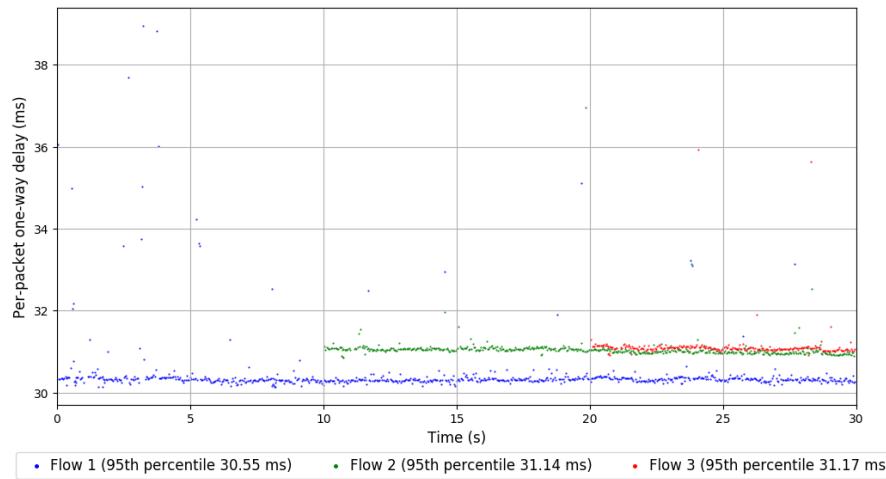
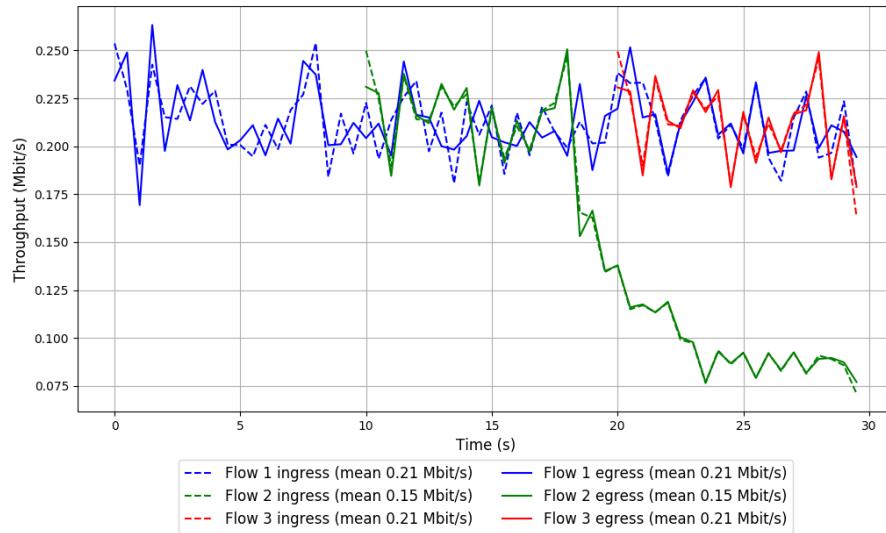


```
Run 1: Statistics of SCReAM

Start at: 2018-04-24 21:00:03
End at: 2018-04-24 21:00:33
Local clock offset: 1.304 ms
Remote clock offset: 0.481 ms

# Below is generated by plot.py at 2018-04-25 01:48:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 31.146 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.551 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 31.139 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.172 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

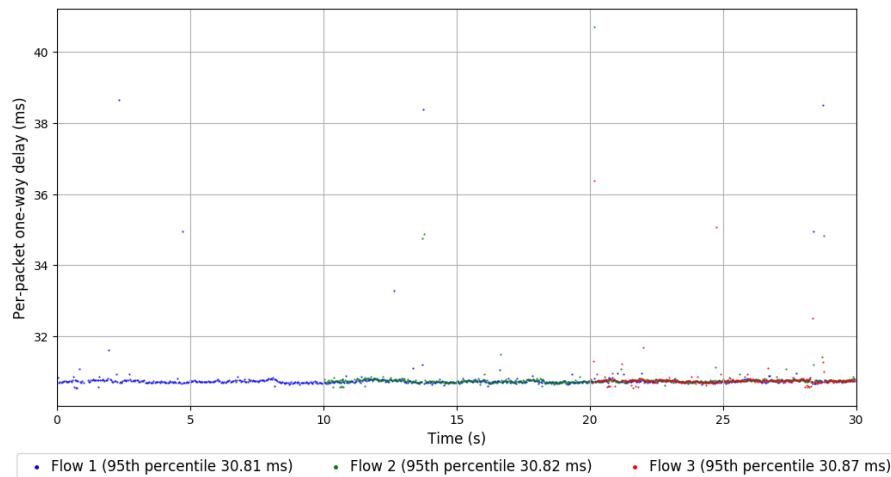
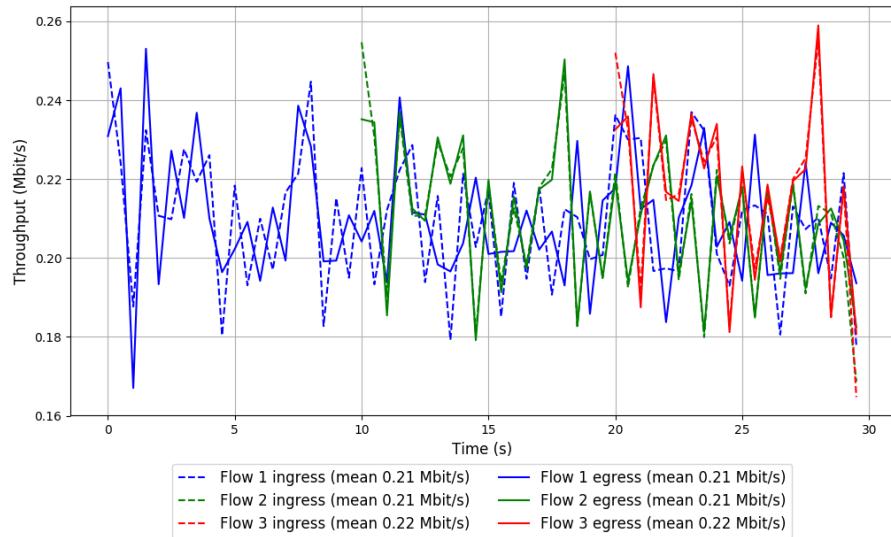


Run 2: Statistics of SCReAM

```
Start at: 2018-04-24 21:25:27
End at: 2018-04-24 21:25:57
Local clock offset: 1.248 ms
Remote clock offset: -0.265 ms

# Below is generated by plot.py at 2018-04-25 01:48:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 30.817 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.808 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.817 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.866 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

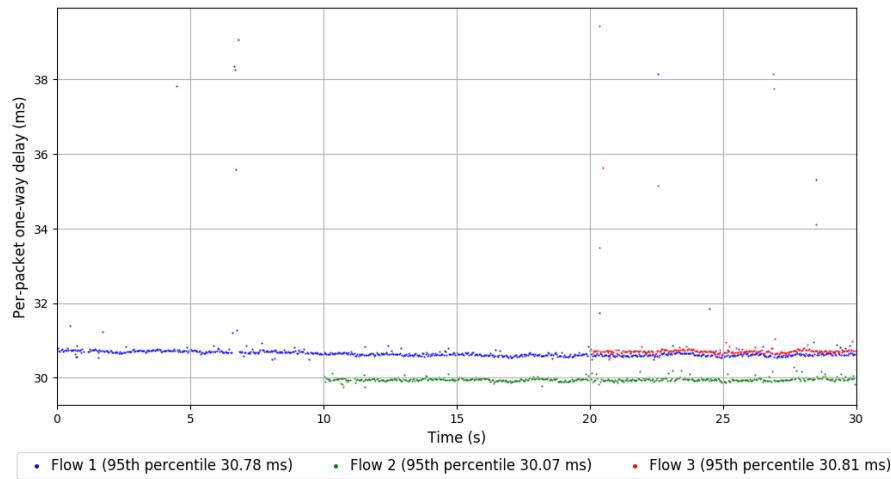
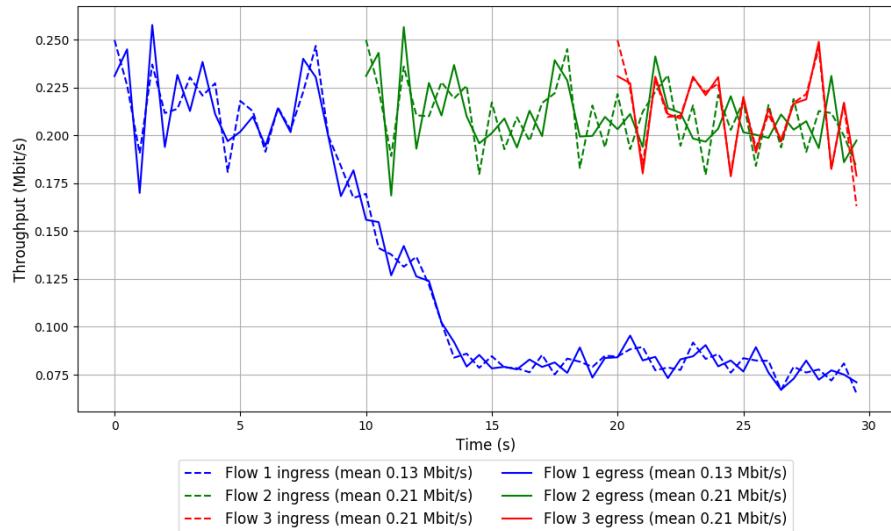


Run 3: Statistics of SCReAM

```
Start at: 2018-04-24 21:50:46
End at: 2018-04-24 21:51:16
Local clock offset: 0.554 ms
Remote clock offset: -0.731 ms

# Below is generated by plot.py at 2018-04-25 01:48:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 30.761 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 30.778 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.067 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.812 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

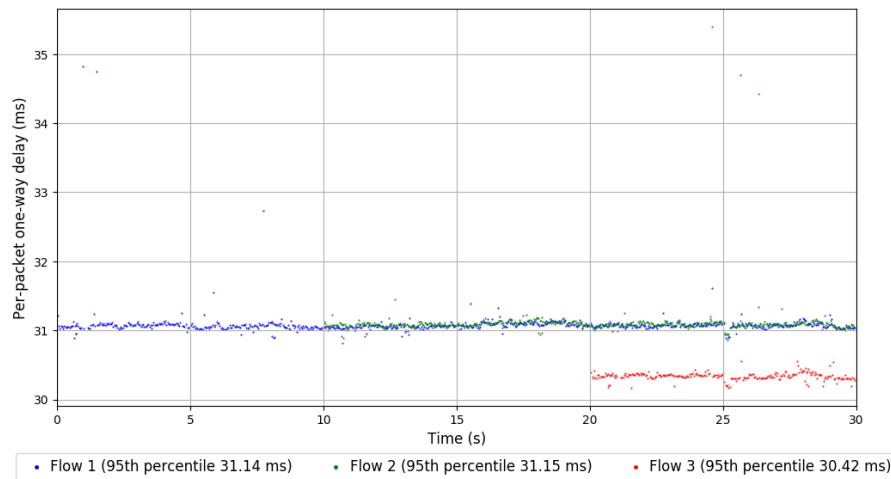
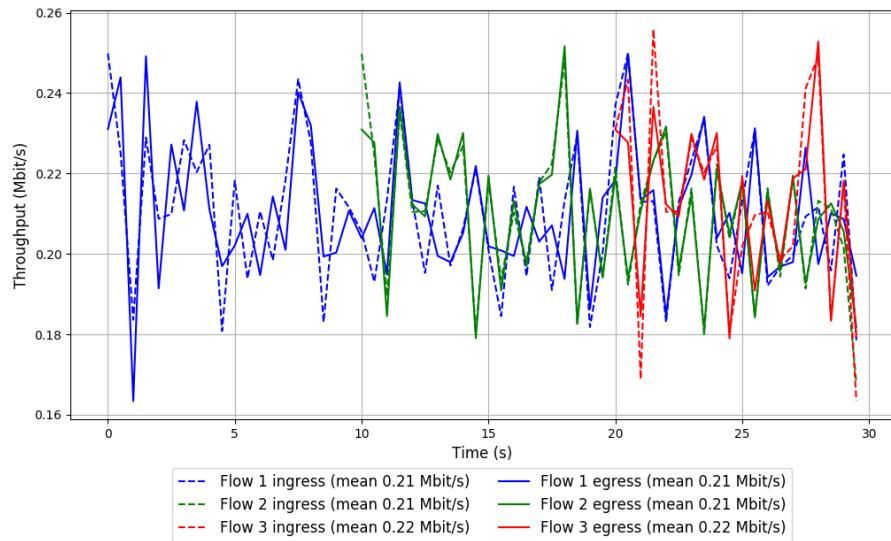


Run 4: Statistics of SCReAM

```
Start at: 2018-04-24 22:16:18
End at: 2018-04-24 22:16:48
Local clock offset: 0.304 ms
Remote clock offset: 0.398 ms

# Below is generated by plot.py at 2018-04-25 01:48:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 31.139 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.135 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.148 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.424 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

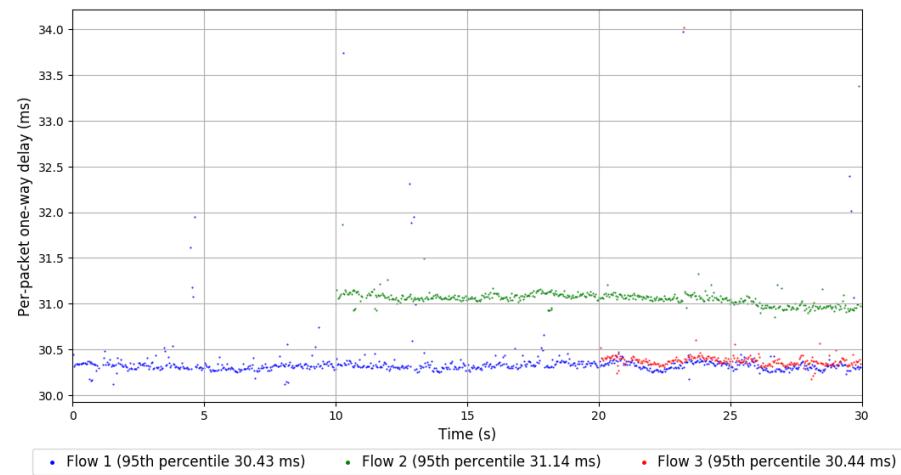
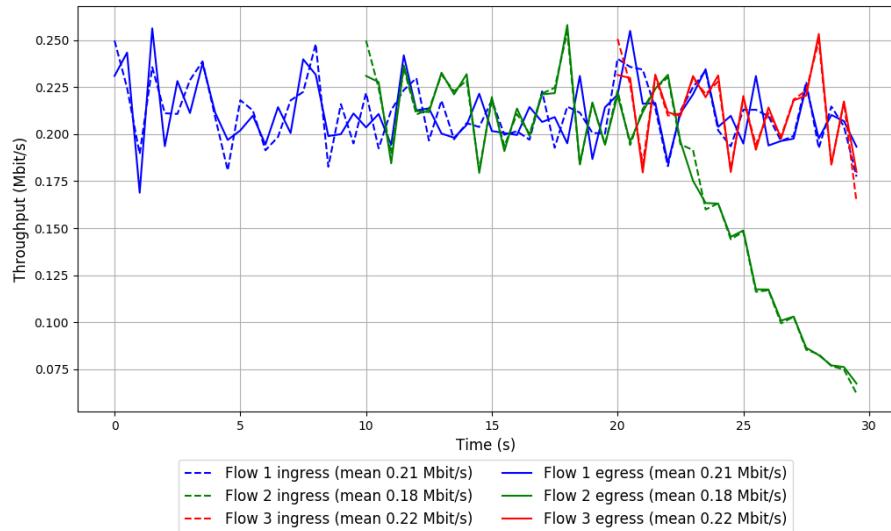


Run 5: Statistics of SCReAM

```
Start at: 2018-04-24 22:40:27
End at: 2018-04-24 22:40:57
Local clock offset: 0.147 ms
Remote clock offset: 0.119 ms

# Below is generated by plot.py at 2018-04-25 01:48:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 31.112 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.431 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 31.139 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.438 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

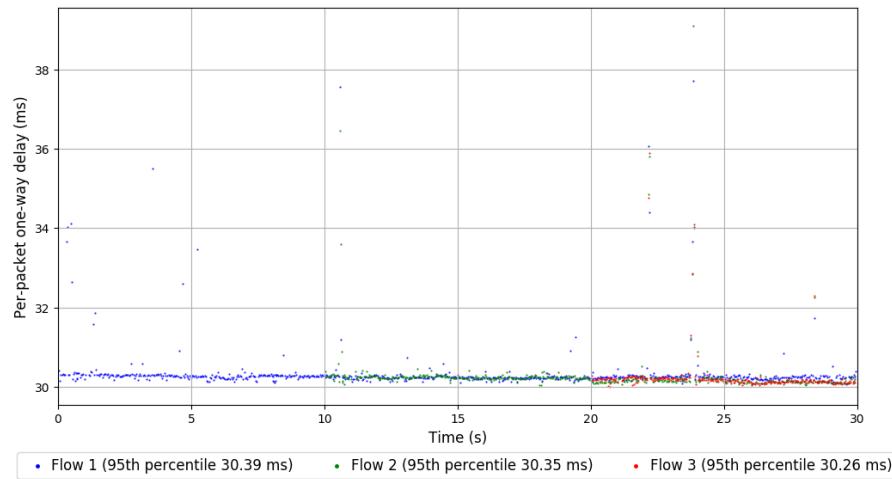
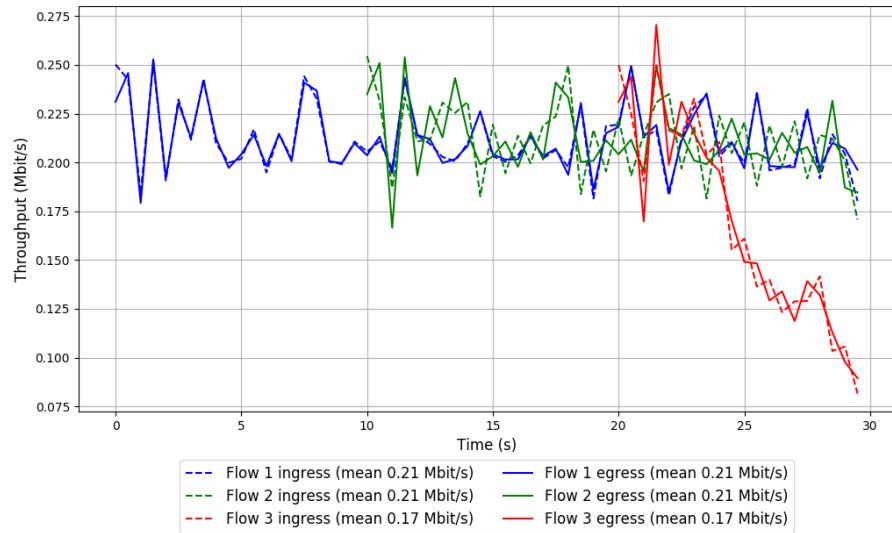


Run 6: Statistics of SCReAM

```
Start at: 2018-04-24 23:05:01
End at: 2018-04-24 23:05:31
Local clock offset: 0.728 ms
Remote clock offset: 0.136 ms

# Below is generated by plot.py at 2018-04-25 01:48:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 30.358 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.386 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.346 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 30.261 ms
Loss rate: 0.57%
```

Run 6: Report of SCReAM — Data Link

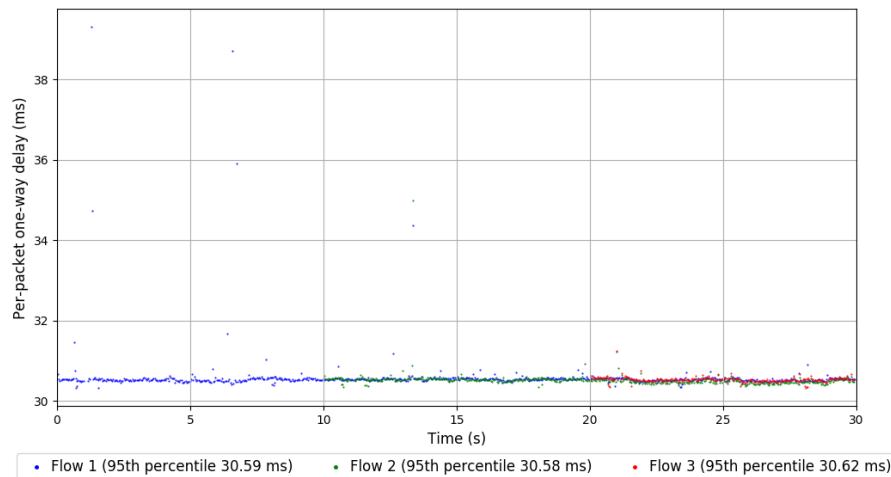
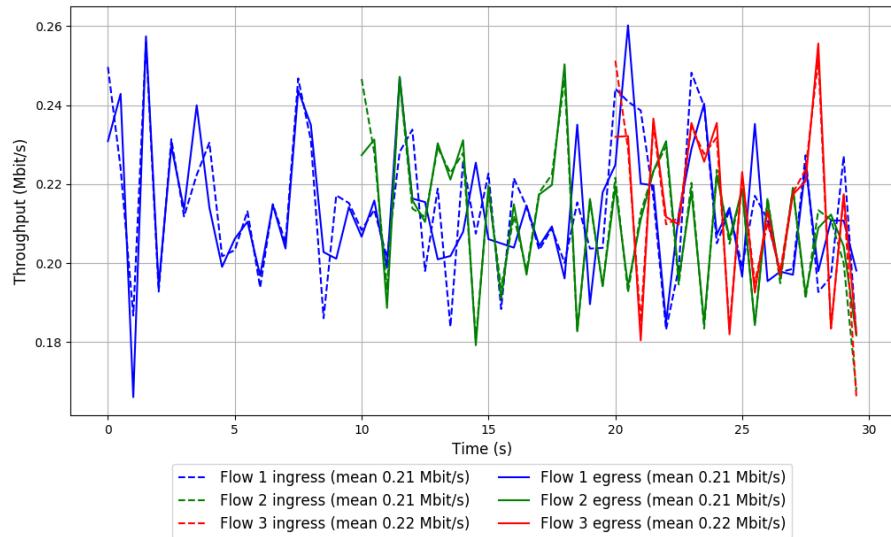


Run 7: Statistics of SCReAM

```
Start at: 2018-04-24 23:30:30
End at: 2018-04-24 23:31:00
Local clock offset: 0.775 ms
Remote clock offset: 0.424 ms

# Below is generated by plot.py at 2018-04-25 01:48:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 30.591 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.589 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.578 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.619 ms
Loss rate: 0.00%
```

Run 7: Report of SCReAM — Data Link

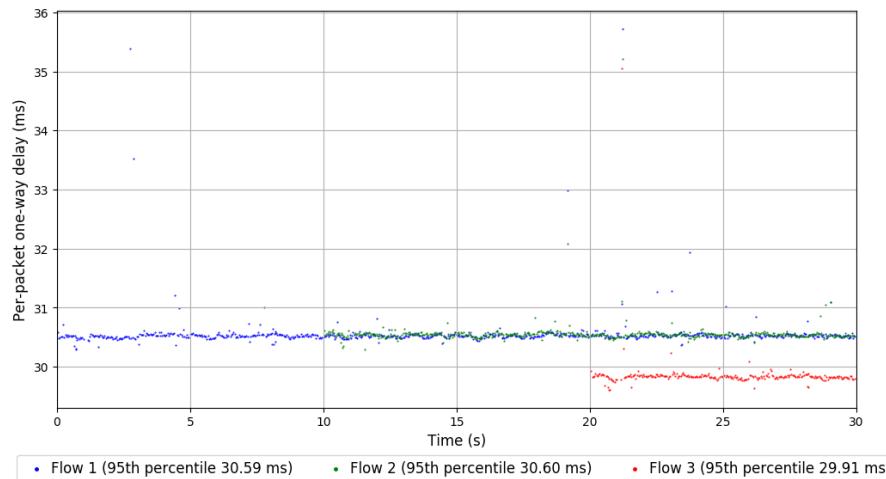
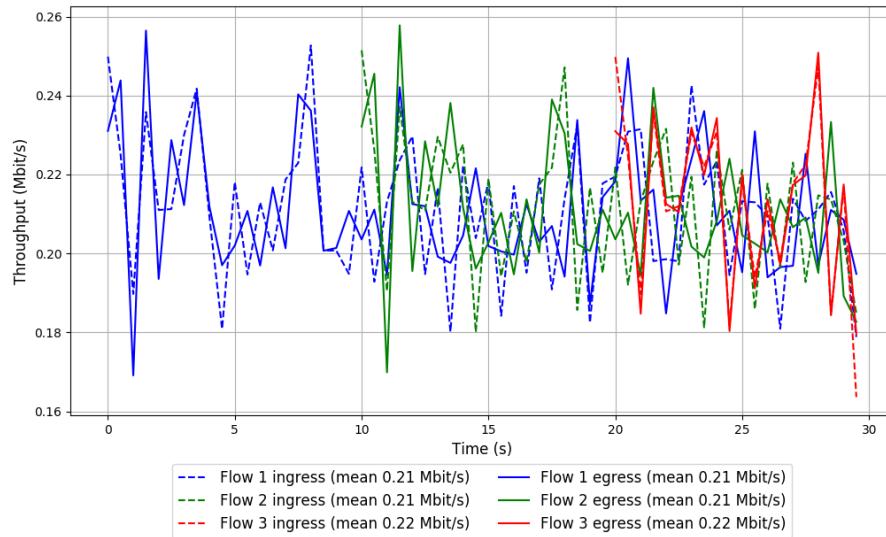


Run 8: Statistics of SCReAM

```
Start at: 2018-04-24 23:55:31
End at: 2018-04-24 23:56:01
Local clock offset: 0.821 ms
Remote clock offset: 0.252 ms

# Below is generated by plot.py at 2018-04-25 01:48:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 30.593 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.592 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.604 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 29.913 ms
Loss rate: 0.00%
```

Run 8: Report of SCReAM — Data Link

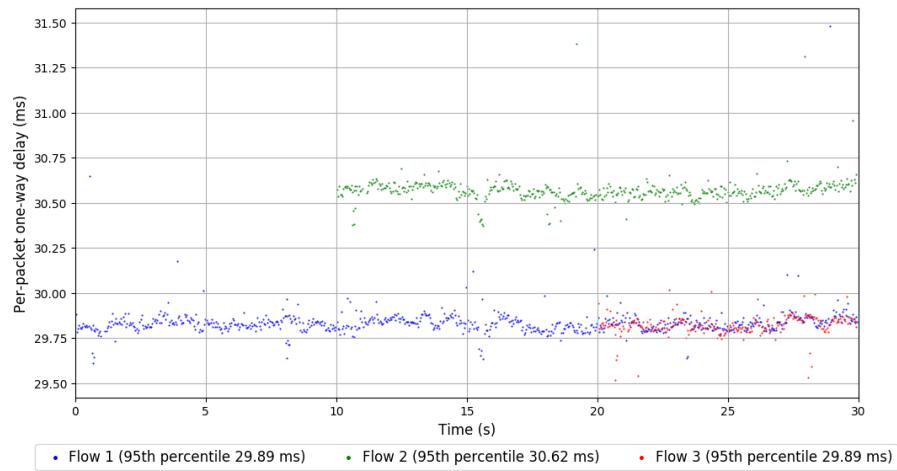
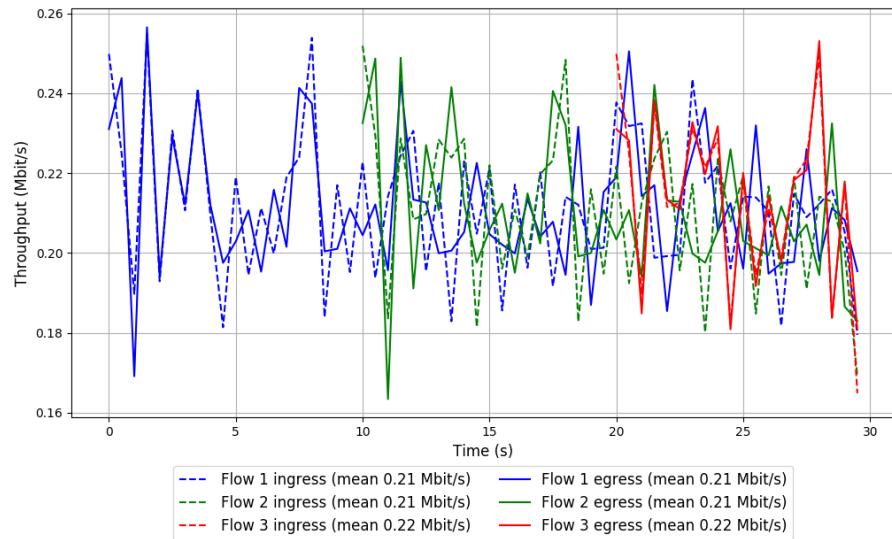


Run 9: Statistics of SCReAM

```
Start at: 2018-04-25 00:21:20
End at: 2018-04-25 00:21:50
Local clock offset: 1.127 ms
Remote clock offset: -0.231 ms

# Below is generated by plot.py at 2018-04-25 01:48:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 30.606 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 29.895 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.625 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 29.891 ms
Loss rate: 0.00%
```

Run 9: Report of SCReAM — Data Link

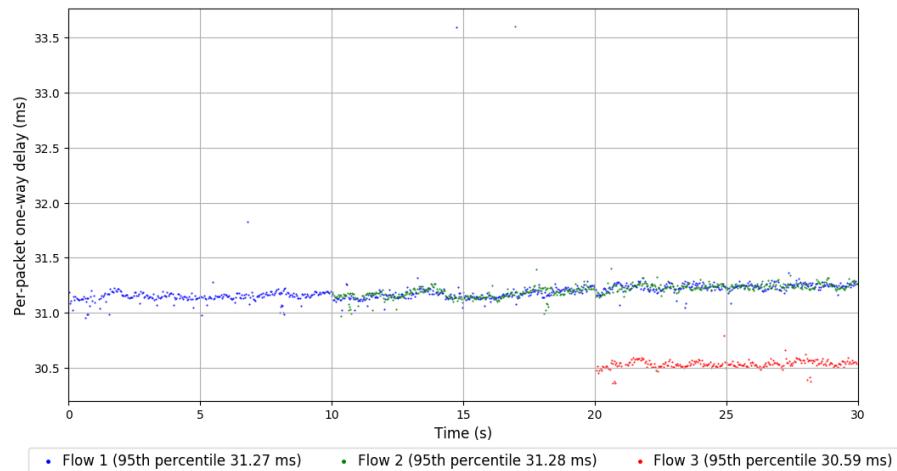
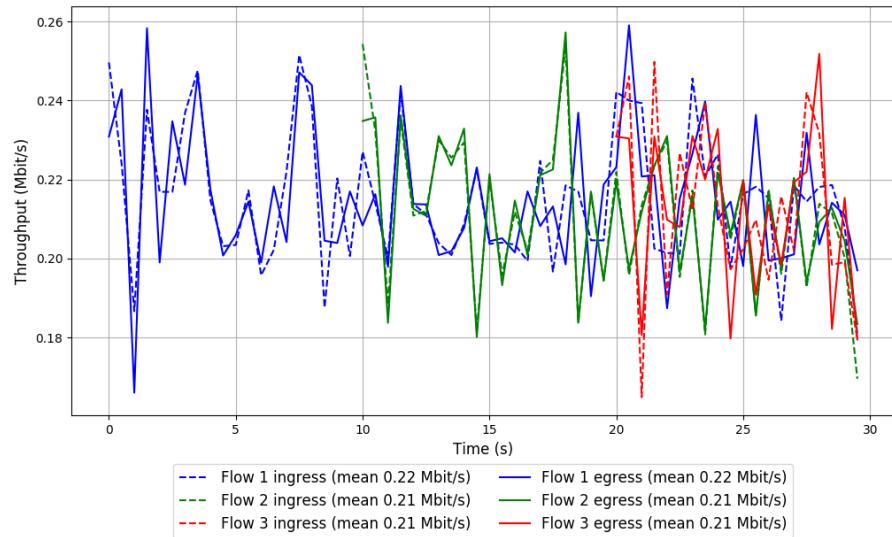


Run 10: Statistics of SCReAM

```
Start at: 2018-04-25 00:47:45
End at: 2018-04-25 00:48:15
Local clock offset: 1.077 ms
Remote clock offset: -1.09 ms

# Below is generated by plot.py at 2018-04-25 01:48:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 31.271 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.273 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.281 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.586 ms
Loss rate: 0.00%
```

Run 10: Report of SCReAM — Data Link

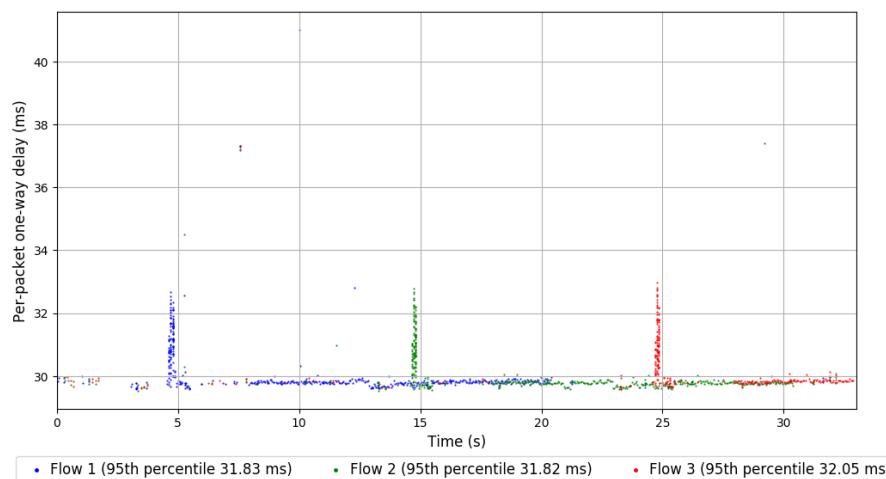
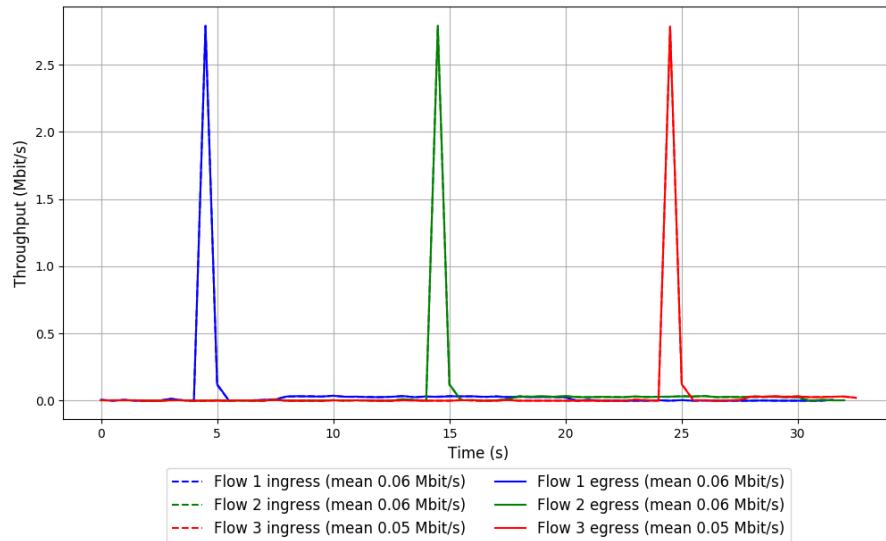


Run 1: Statistics of WebRTC media

```
Start at: 2018-04-24 21:06:33
End at: 2018-04-24 21:07:03
Local clock offset: 1.141 ms
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2018-04-25 01:48:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 31.923 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 31.827 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 31.816 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 32.050 ms
Loss rate: 0.12%
```

Run 1: Report of WebRTC media — Data Link

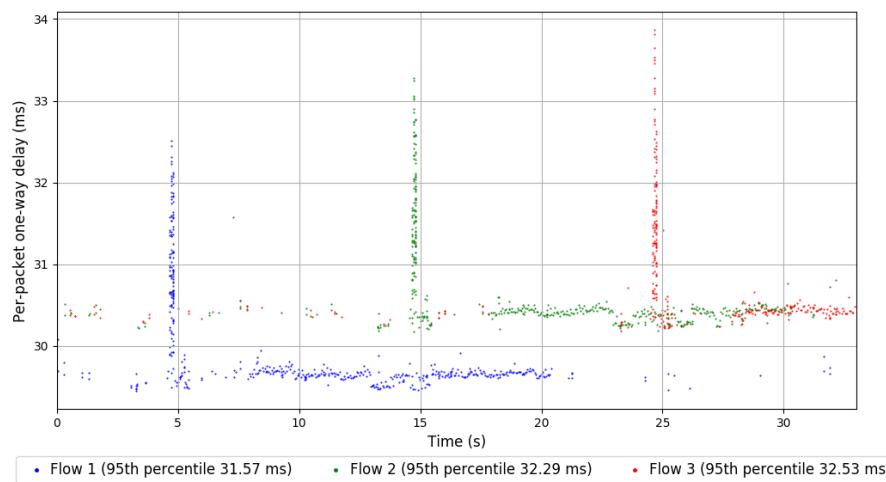
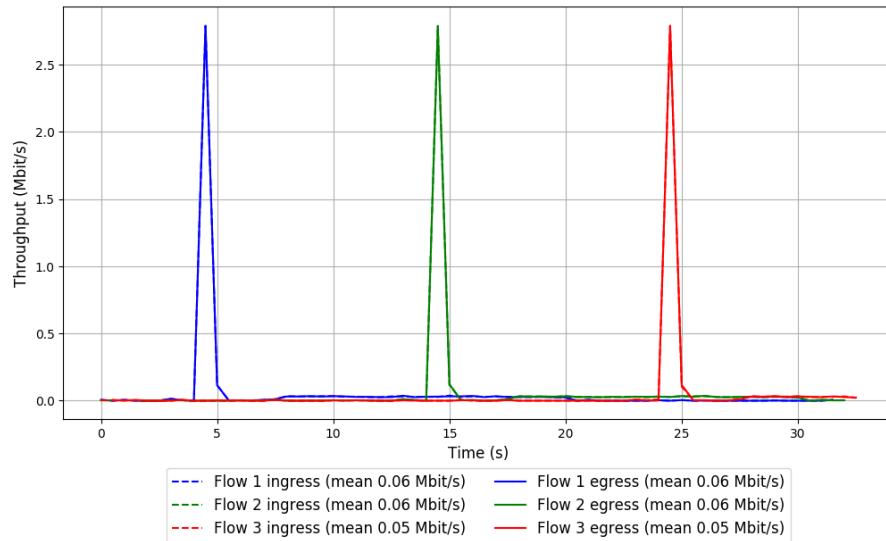


Run 2: Statistics of WebRTC media

```
Start at: 2018-04-24 21:31:43
End at: 2018-04-24 21:32:13
Local clock offset: 1.366 ms
Remote clock offset: -0.426 ms

# Below is generated by plot.py at 2018-04-25 01:48:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 32.079 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 31.575 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 32.287 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 32.532 ms
Loss rate: 0.08%
```

Run 2: Report of WebRTC media — Data Link

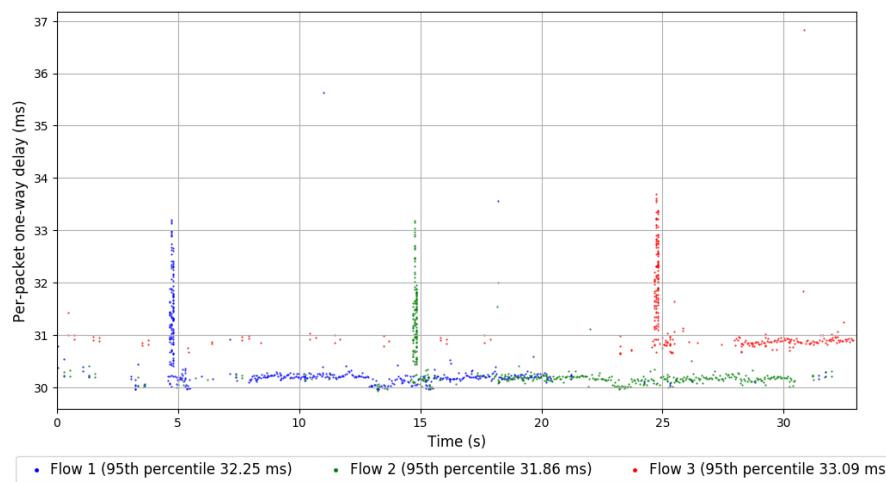
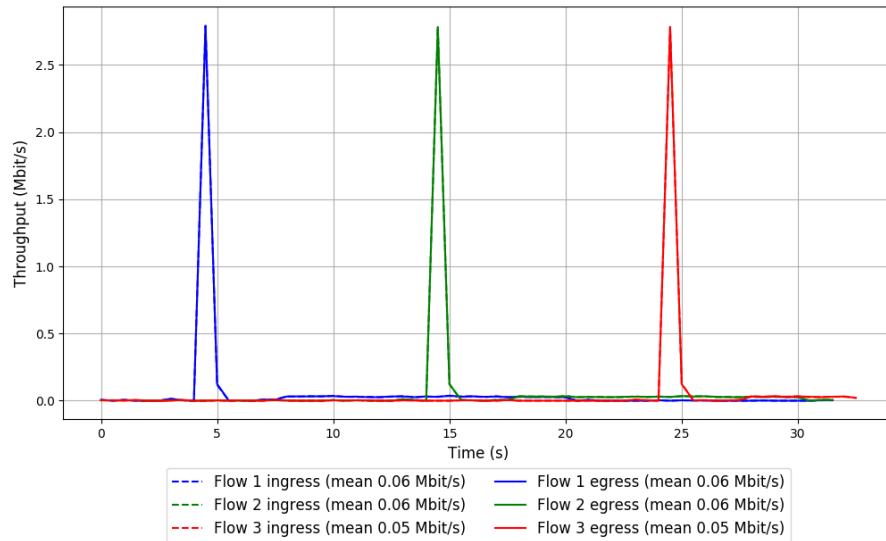


Run 3: Statistics of WebRTC media

```
Start at: 2018-04-24 21:56:55
End at: 2018-04-24 21:57:25
Local clock offset: 0.443 ms
Remote clock offset: -0.238 ms

# Below is generated by plot.py at 2018-04-25 01:48:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 32.538 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 32.249 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 31.861 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 33.093 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

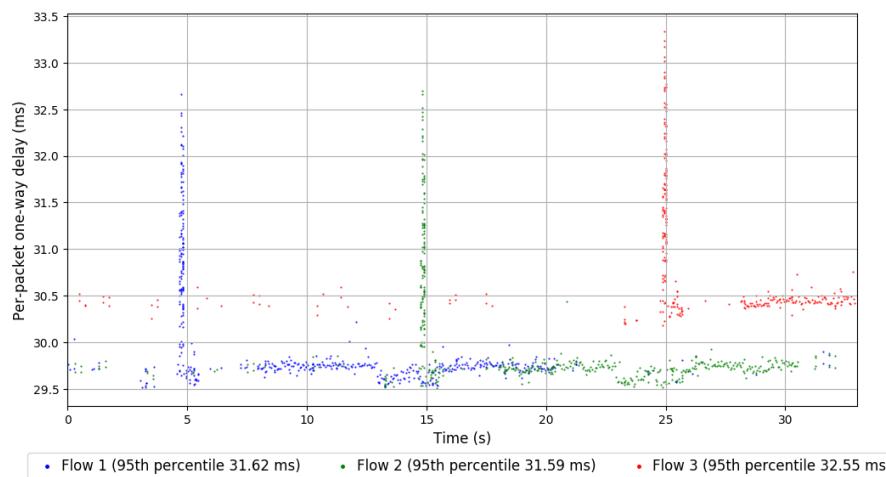
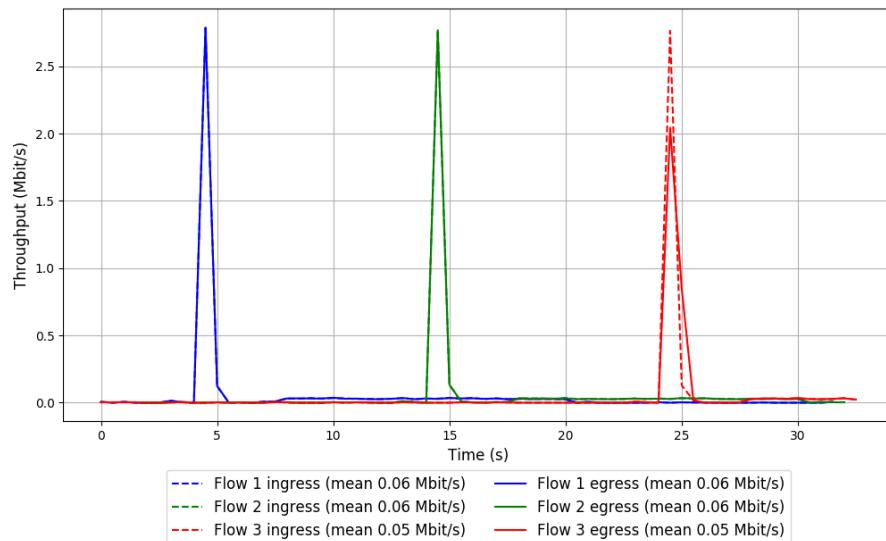


Run 4: Statistics of WebRTC media

```
Start at: 2018-04-24 22:22:02
End at: 2018-04-24 22:22:32
Local clock offset: 0.332 ms
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2018-04-25 01:48:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 31.920 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 31.618 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 31.591 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 32.550 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link

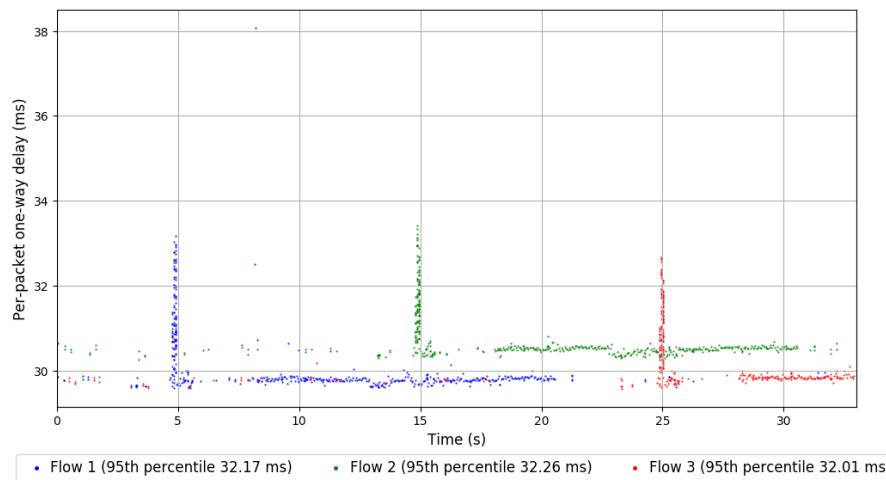
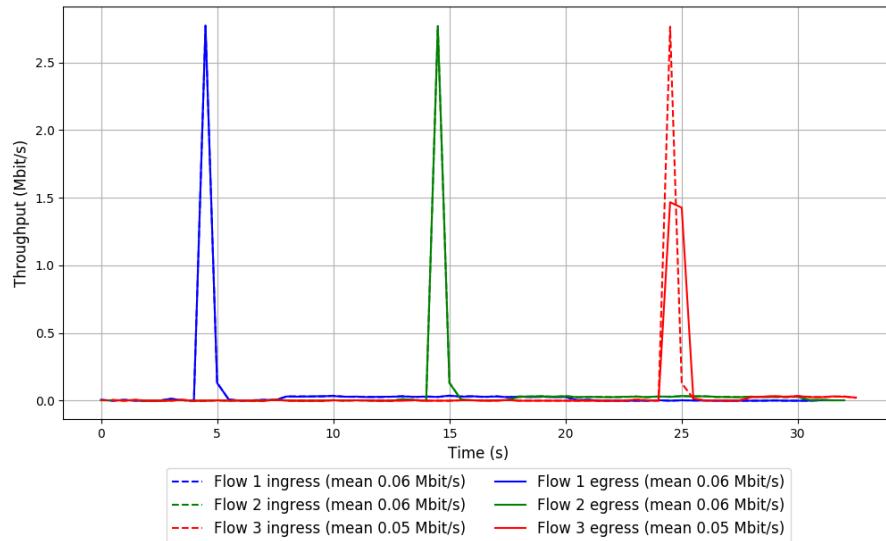


Run 5: Statistics of WebRTC media

```
Start at: 2018-04-24 22:46:28
End at: 2018-04-24 22:46:58
Local clock offset: 0.418 ms
Remote clock offset: -0.35 ms

# Below is generated by plot.py at 2018-04-25 01:48:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 32.162 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 32.169 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 32.263 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 32.005 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

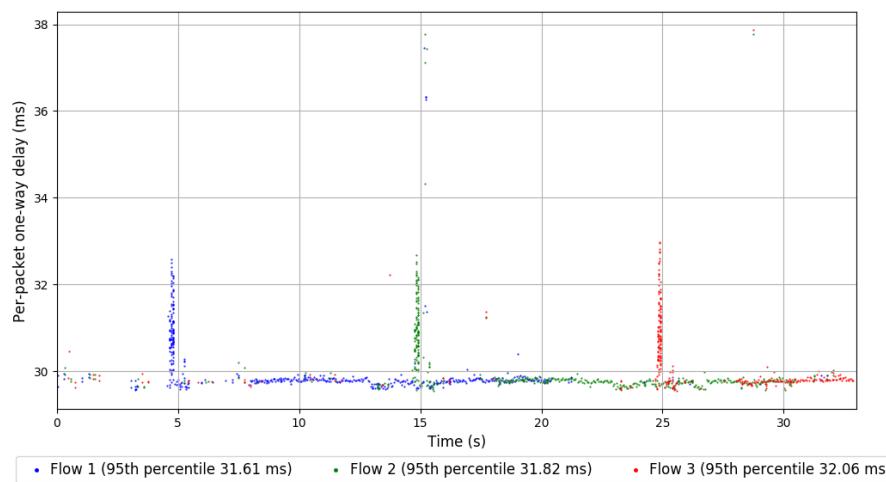
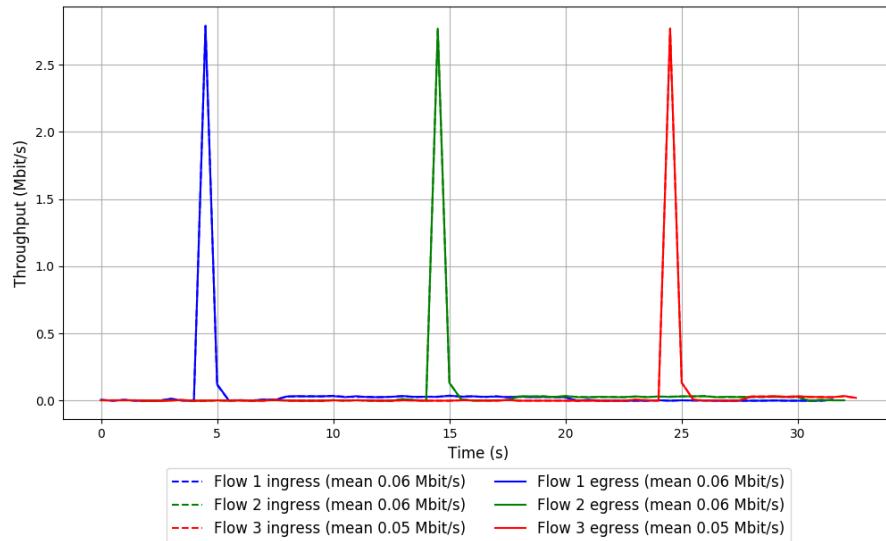


```
Run 6: Statistics of WebRTC media

Start at: 2018-04-24 23:11:32
End at: 2018-04-24 23:12:02
Local clock offset: 0.657 ms
Remote clock offset: 0.118 ms

# Below is generated by plot.py at 2018-04-25 01:48:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 31.837 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 31.615 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 31.822 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 32.059 ms
Loss rate: 0.00%
```

Run 6: Report of WebRTC media — Data Link

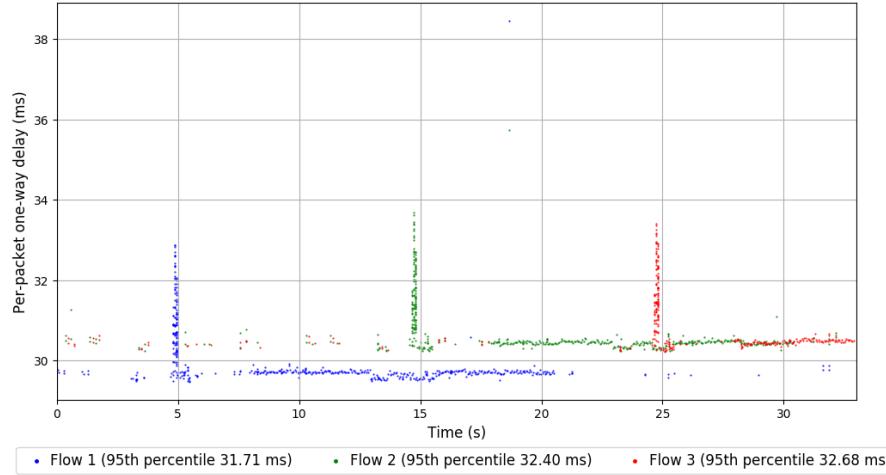
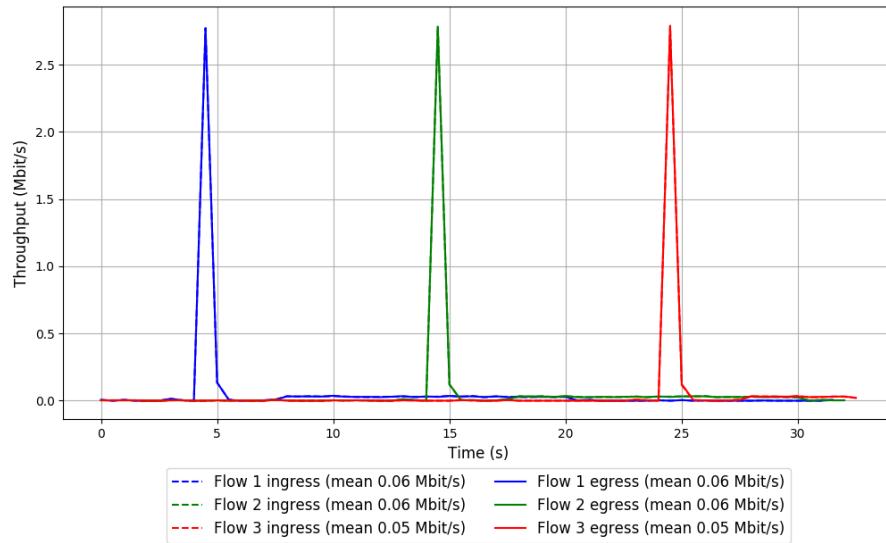


Run 7: Statistics of WebRTC media

```
Start at: 2018-04-24 23:36:54
End at: 2018-04-24 23:37:24
Local clock offset: 0.779 ms
Remote clock offset: 0.623 ms

# Below is generated by plot.py at 2018-04-25 01:48:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 32.342 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 31.714 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 32.400 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 32.679 ms
Loss rate: 0.00%
```

Run 7: Report of WebRTC media — Data Link

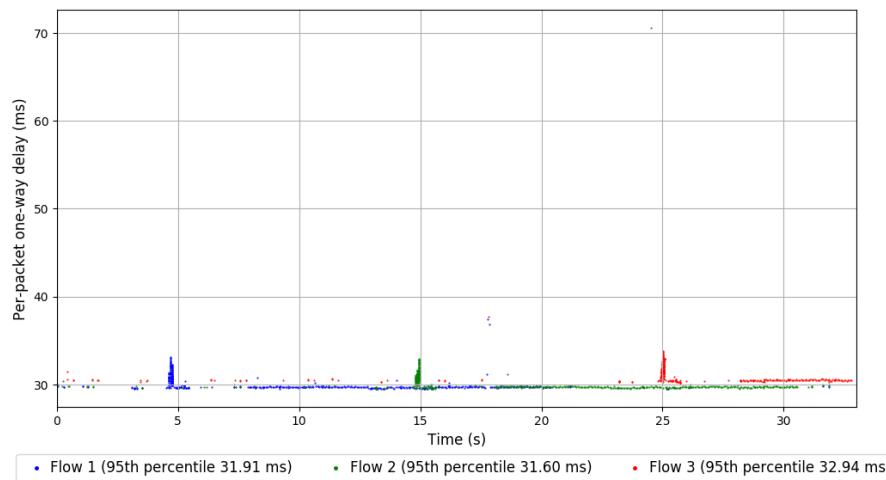
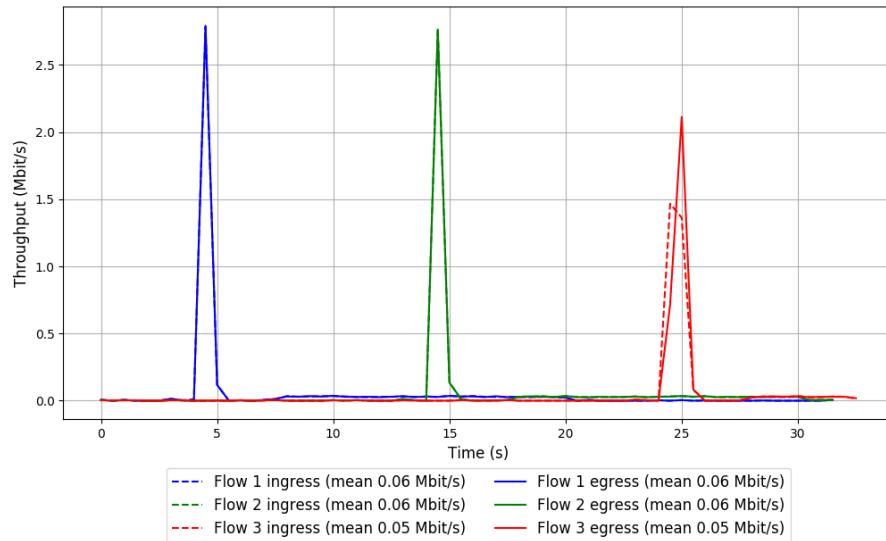


Run 8: Statistics of WebRTC media

```
Start at: 2018-04-25 00:02:01
End at: 2018-04-25 00:02:31
Local clock offset: 0.885 ms
Remote clock offset: 0.453 ms

# Below is generated by plot.py at 2018-04-25 01:48:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 32.225 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 31.912 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 31.603 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 32.943 ms
Loss rate: 0.00%
```

Run 8: Report of WebRTC media — Data Link

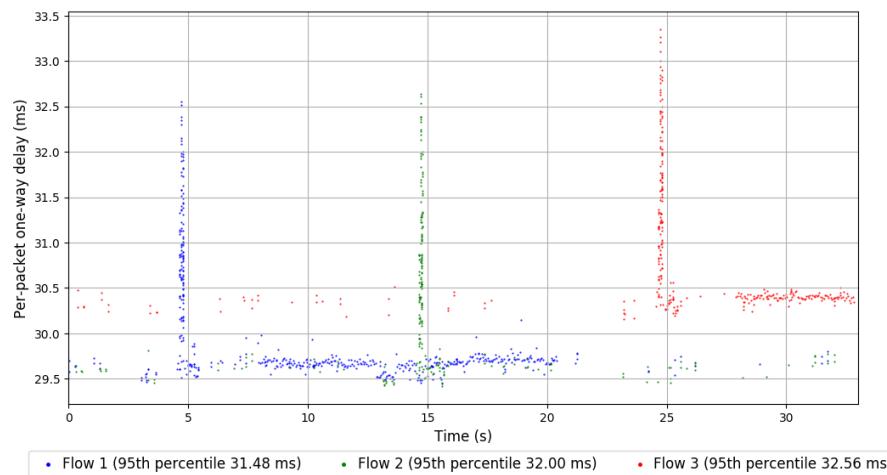
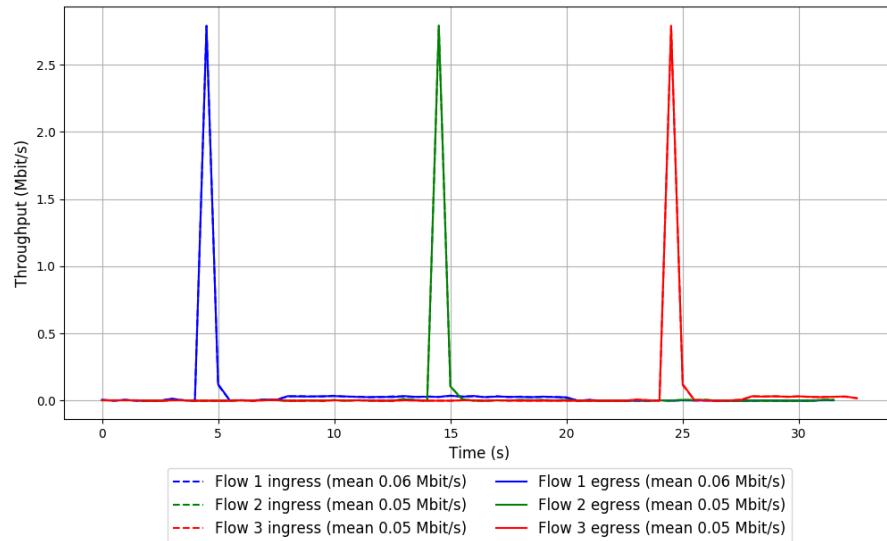


Run 9: Statistics of WebRTC media

```
Start at: 2018-04-25 00:27:45
End at: 2018-04-25 00:28:15
Local clock offset: 1.139 ms
Remote clock offset: -0.399 ms

# Below is generated by plot.py at 2018-04-25 01:48:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 32.056 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 31.482 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 32.003 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 32.562 ms
Loss rate: 0.00%
```

Run 9: Report of WebRTC media — Data Link

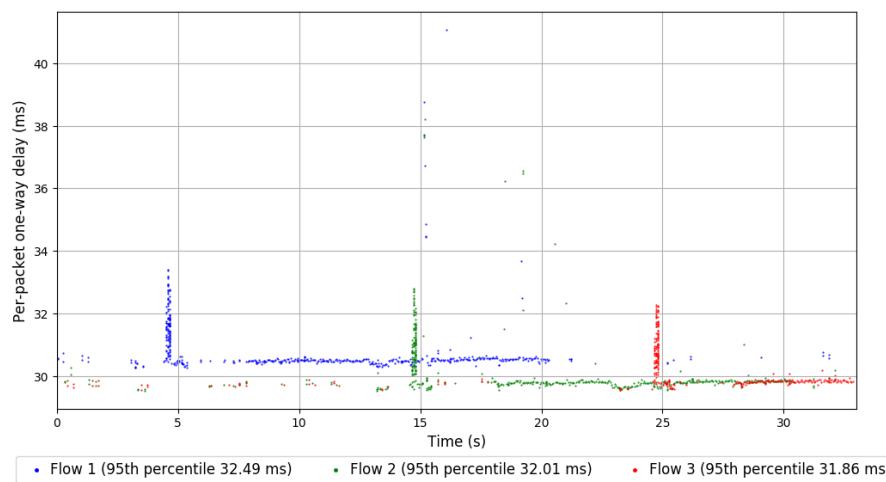
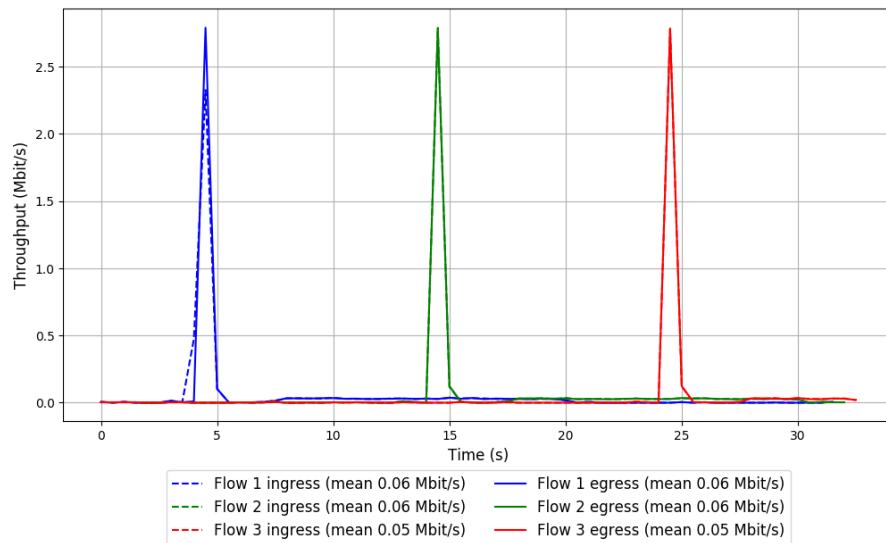


```
Run 10: Statistics of WebRTC media
```

```
Start at: 2018-04-25 00:54:48
End at: 2018-04-25 00:55:18
Local clock offset: 1.166 ms
Remote clock offset: -2.953 ms

# Below is generated by plot.py at 2018-04-25 01:48:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 32.104 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 32.490 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 32.006 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 31.859 ms
Loss rate: 0.00%
```

Run 10: Report of WebRTC media — Data Link

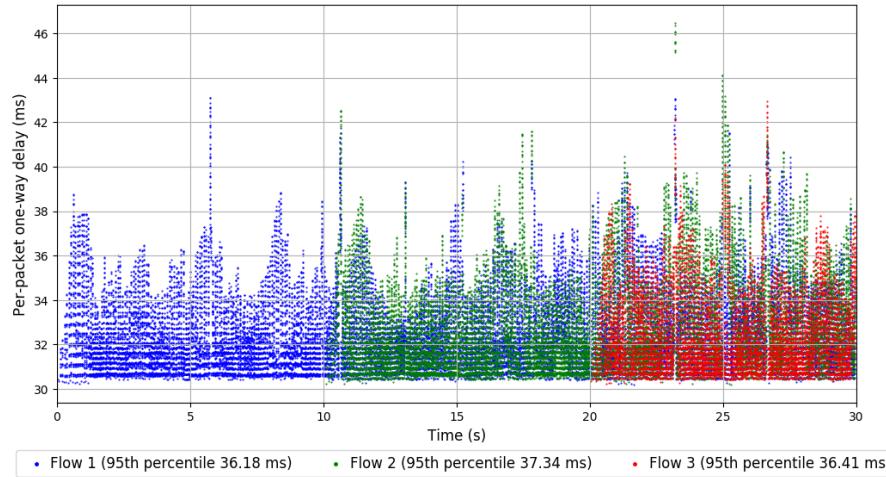
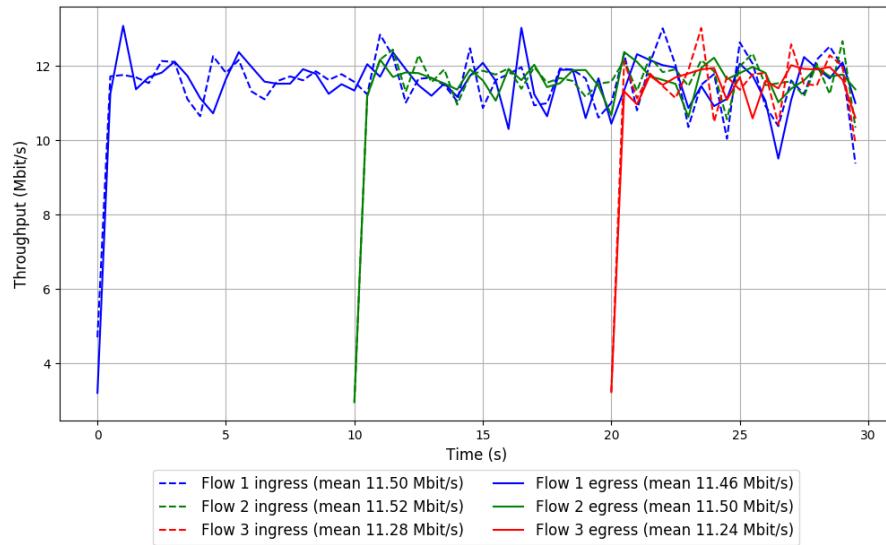


Run 1: Statistics of Sprout

```
Start at: 2018-04-24 21:24:06
End at: 2018-04-24 21:24:36
Local clock offset: 1.325 ms
Remote clock offset: -0.356 ms

# Below is generated by plot.py at 2018-04-25 01:48:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.83 Mbit/s
95th percentile per-packet one-way delay: 36.635 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 11.46 Mbit/s
95th percentile per-packet one-way delay: 36.180 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 11.50 Mbit/s
95th percentile per-packet one-way delay: 37.341 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 11.24 Mbit/s
95th percentile per-packet one-way delay: 36.414 ms
Loss rate: 0.28%
```

Run 1: Report of Sprout — Data Link

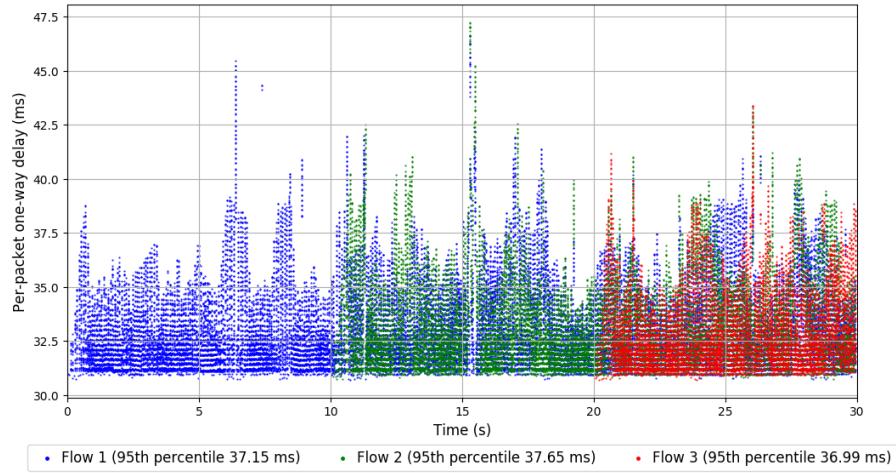
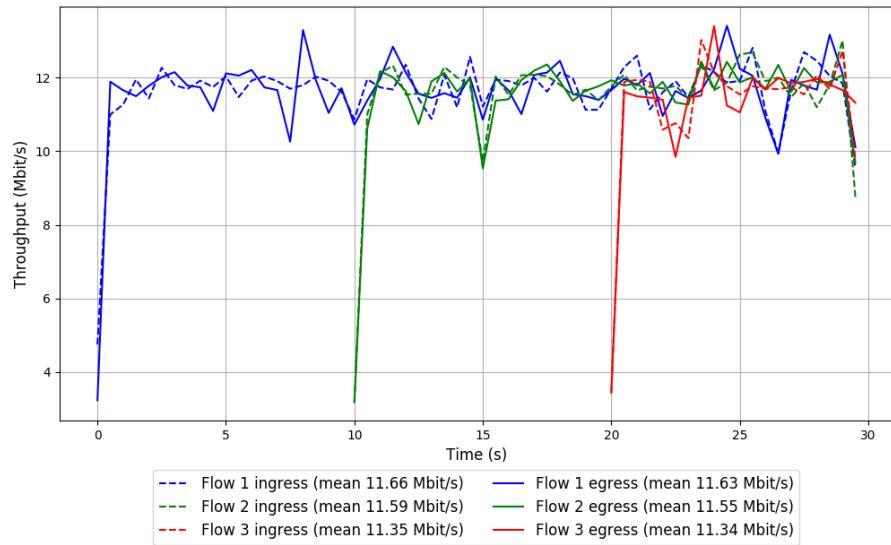


Run 2: Statistics of Sprout

```
Start at: 2018-04-24 21:49:24
End at: 2018-04-24 21:49:54
Local clock offset: 0.585 ms
Remote clock offset: -0.341 ms

# Below is generated by plot.py at 2018-04-25 01:48:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.05 Mbit/s
95th percentile per-packet one-way delay: 37.281 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 11.63 Mbit/s
95th percentile per-packet one-way delay: 37.147 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 11.55 Mbit/s
95th percentile per-packet one-way delay: 37.654 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 11.34 Mbit/s
95th percentile per-packet one-way delay: 36.990 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

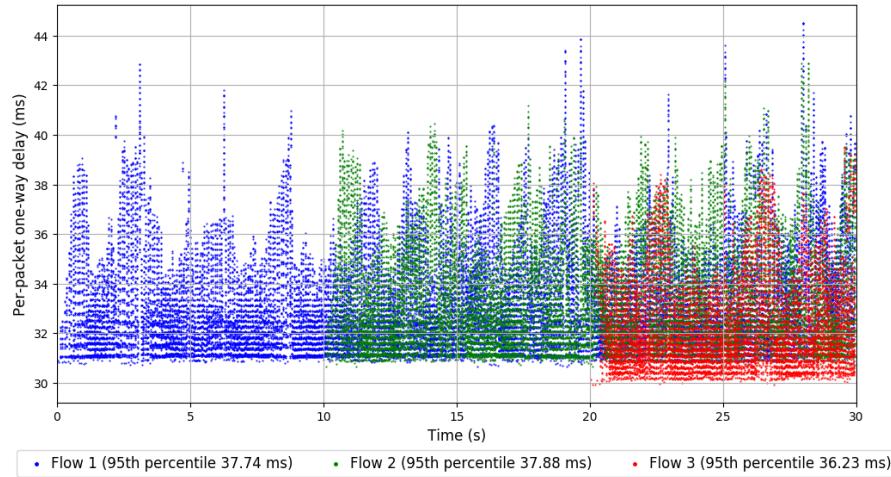
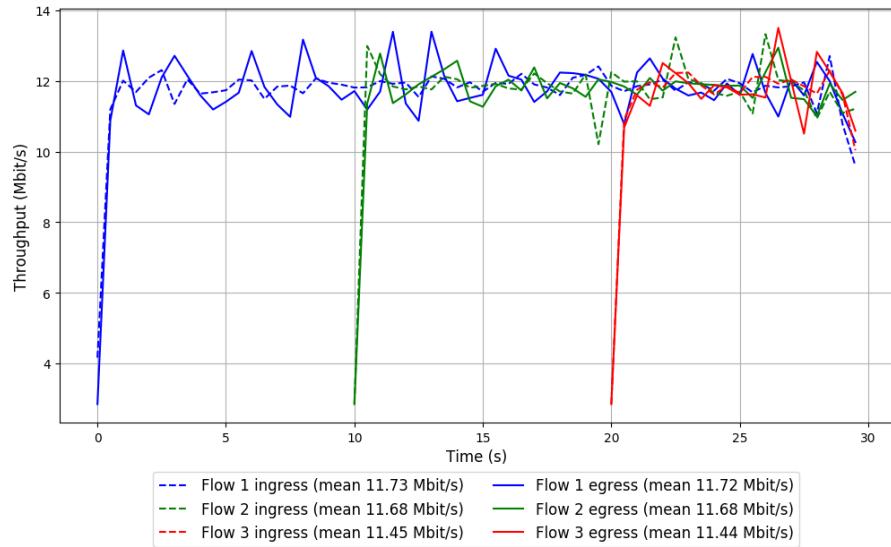


Run 3: Statistics of Sprout

```
Start at: 2018-04-24 22:14:58
End at: 2018-04-24 22:15:28
Local clock offset: 0.416 ms
Remote clock offset: 0.395 ms

# Below is generated by plot.py at 2018-04-25 01:48:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.27 Mbit/s
95th percentile per-packet one-way delay: 37.600 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 11.72 Mbit/s
95th percentile per-packet one-way delay: 37.742 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 11.68 Mbit/s
95th percentile per-packet one-way delay: 37.879 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.44 Mbit/s
95th percentile per-packet one-way delay: 36.227 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

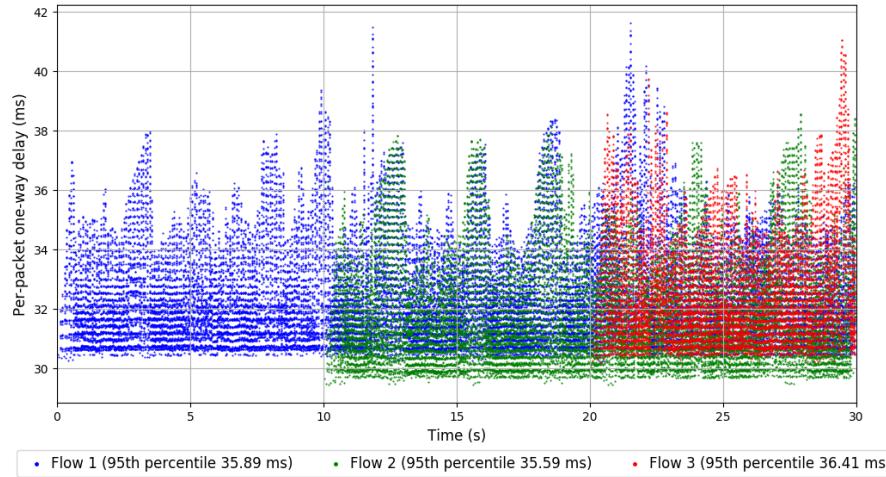
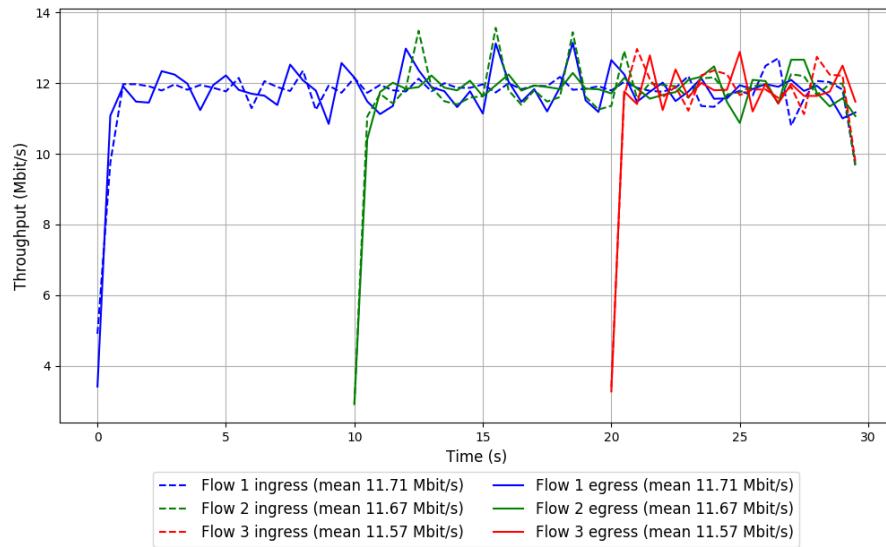


Run 4: Statistics of Sprout

```
Start at: 2018-04-24 22:39:06
End at: 2018-04-24 22:39:36
Local clock offset: 0.258 ms
Remote clock offset: -0.273 ms

# Below is generated by plot.py at 2018-04-25 01:48:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.29 Mbit/s
95th percentile per-packet one-way delay: 35.919 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 11.71 Mbit/s
95th percentile per-packet one-way delay: 35.894 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 11.67 Mbit/s
95th percentile per-packet one-way delay: 35.590 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.57 Mbit/s
95th percentile per-packet one-way delay: 36.405 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

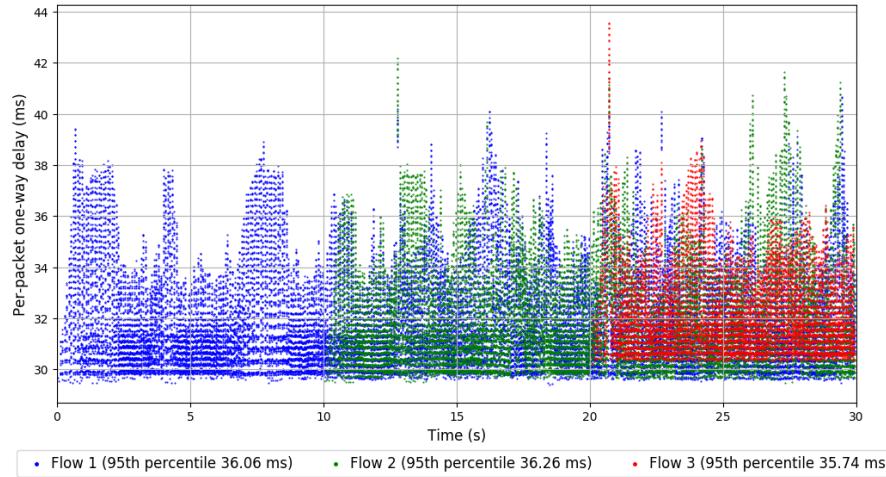
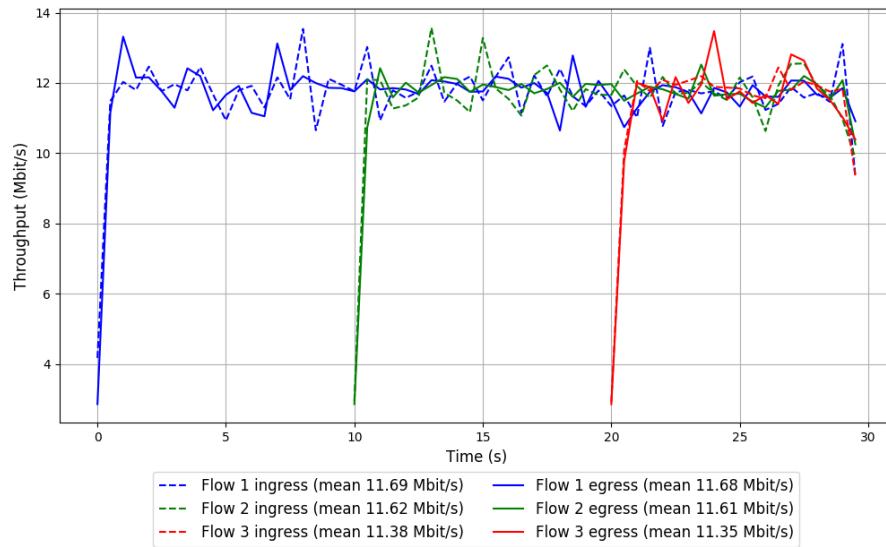


Run 5: Statistics of Sprout

```
Start at: 2018-04-24 23:03:40
End at: 2018-04-24 23:04:10
Local clock offset: 0.723 ms
Remote clock offset: -0.426 ms

# Below is generated by plot.py at 2018-04-25 01:48:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.15 Mbit/s
95th percentile per-packet one-way delay: 36.095 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 11.68 Mbit/s
95th percentile per-packet one-way delay: 36.064 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 11.61 Mbit/s
95th percentile per-packet one-way delay: 36.255 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 11.35 Mbit/s
95th percentile per-packet one-way delay: 35.736 ms
Loss rate: 0.27%
```

Run 5: Report of Sprout — Data Link

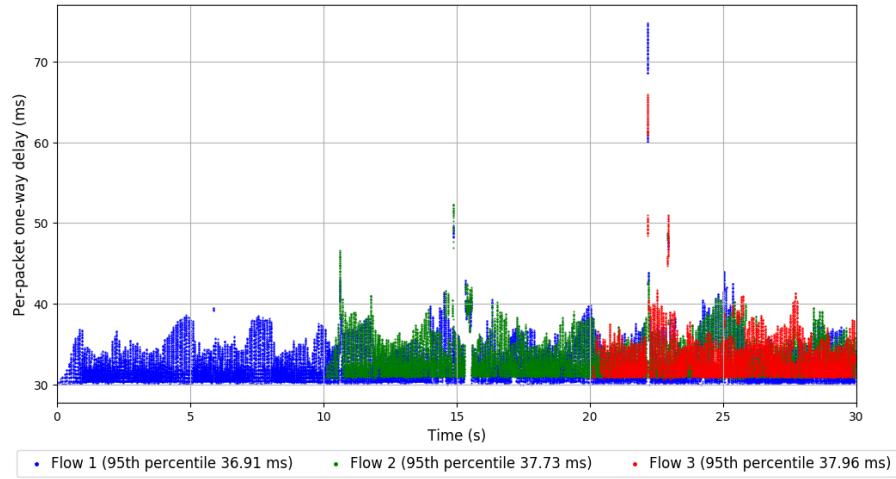
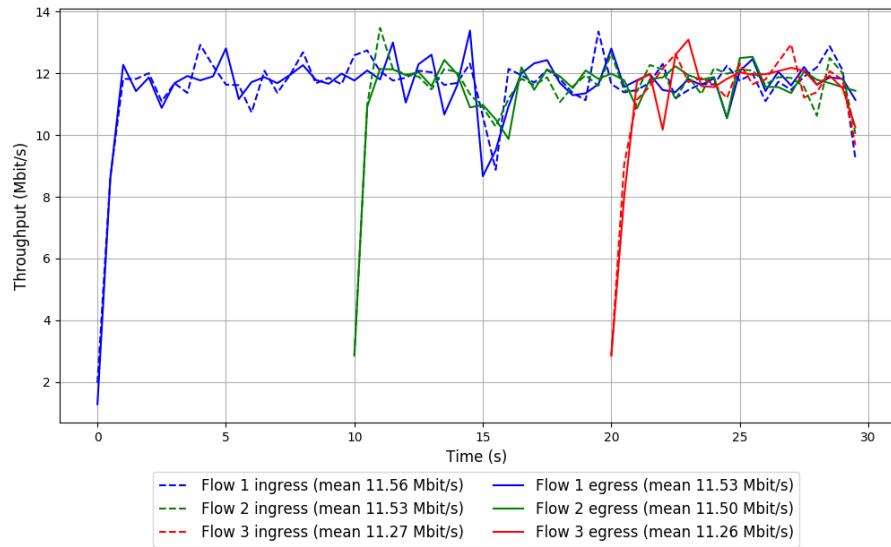


Run 6: Statistics of Sprout

```
Start at: 2018-04-24 23:29:10
End at: 2018-04-24 23:29:40
Local clock offset: 0.791 ms
Remote clock offset: 0.912 ms

# Below is generated by plot.py at 2018-04-25 01:48:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.90 Mbit/s
95th percentile per-packet one-way delay: 37.385 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 11.53 Mbit/s
95th percentile per-packet one-way delay: 36.907 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 11.50 Mbit/s
95th percentile per-packet one-way delay: 37.728 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 11.26 Mbit/s
95th percentile per-packet one-way delay: 37.963 ms
Loss rate: 0.00%
```

Run 6: Report of Sprout — Data Link

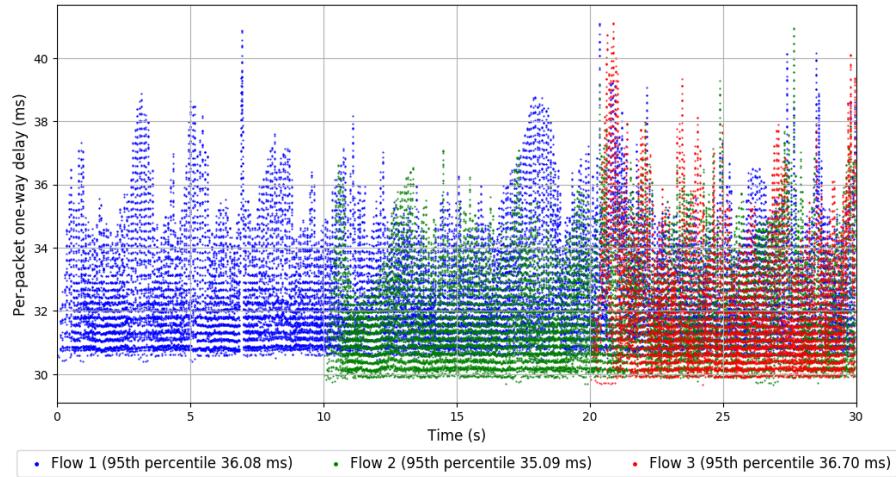
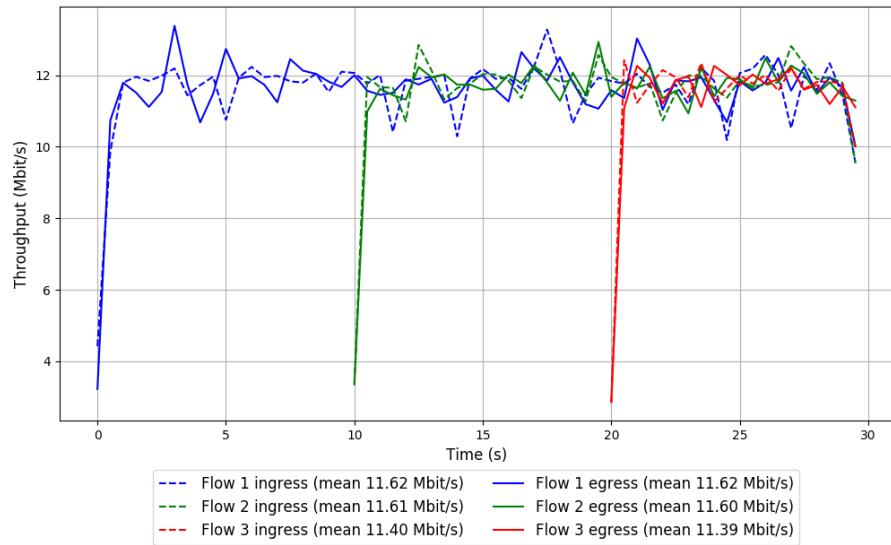


Run 7: Statistics of Sprout

```
Start at: 2018-04-24 23:54:10
End at: 2018-04-24 23:54:40
Local clock offset: 0.744 ms
Remote clock offset: 0.36 ms

# Below is generated by plot.py at 2018-04-25 01:48:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.10 Mbit/s
95th percentile per-packet one-way delay: 35.877 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.62 Mbit/s
95th percentile per-packet one-way delay: 36.083 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.60 Mbit/s
95th percentile per-packet one-way delay: 35.090 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.39 Mbit/s
95th percentile per-packet one-way delay: 36.701 ms
Loss rate: 0.00%
```

Run 7: Report of Sprout — Data Link

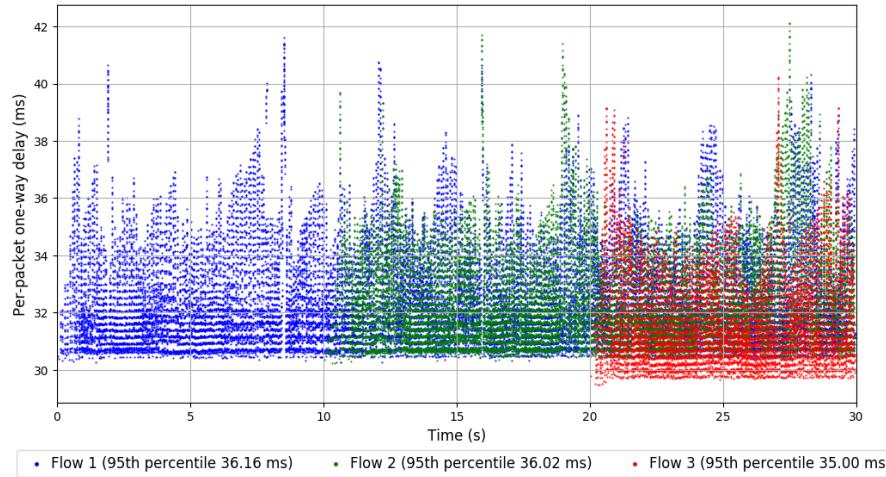
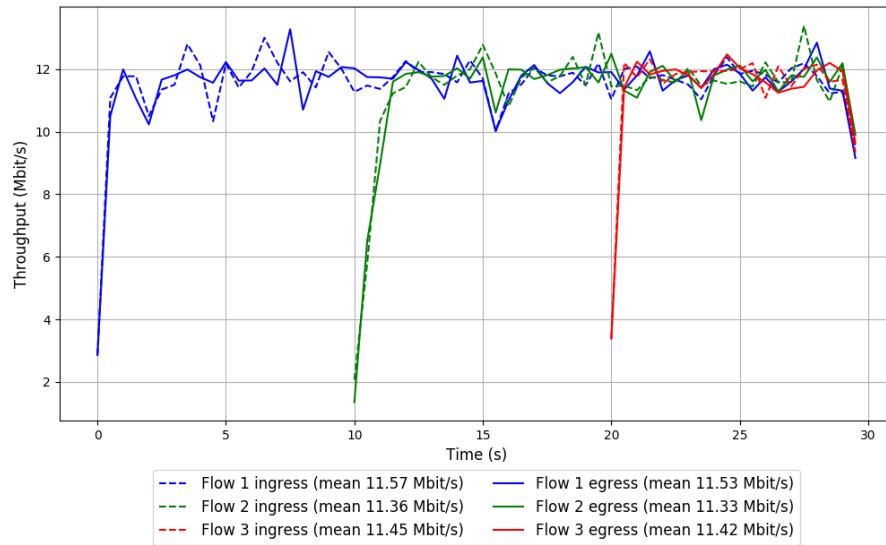


Run 8: Statistics of Sprout

```
Start at: 2018-04-25 00:19:59
End at: 2018-04-25 00:20:29
Local clock offset: 1.108 ms
Remote clock offset: -0.166 ms

# Below is generated by plot.py at 2018-04-25 01:48:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.84 Mbit/s
95th percentile per-packet one-way delay: 35.995 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 11.53 Mbit/s
95th percentile per-packet one-way delay: 36.156 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 11.33 Mbit/s
95th percentile per-packet one-way delay: 36.020 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 11.42 Mbit/s
95th percentile per-packet one-way delay: 34.999 ms
Loss rate: 0.32%
```

Run 8: Report of Sprout — Data Link

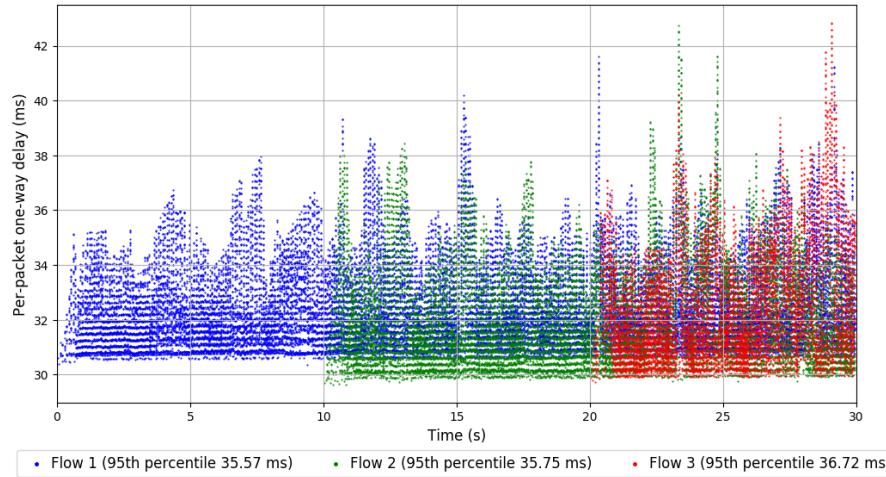
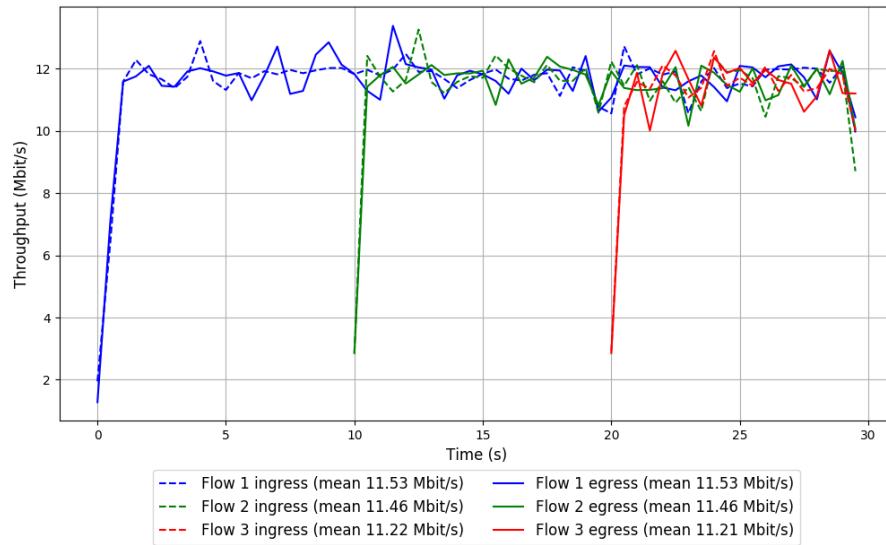


Run 9: Statistics of Sprout

```
Start at: 2018-04-25 00:46:23
End at: 2018-04-25 00:46:53
Local clock offset: 1.068 ms
Remote clock offset: -1.175 ms

# Below is generated by plot.py at 2018-04-25 01:48:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.85 Mbit/s
95th percentile per-packet one-way delay: 35.835 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.53 Mbit/s
95th percentile per-packet one-way delay: 35.572 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.46 Mbit/s
95th percentile per-packet one-way delay: 35.751 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.21 Mbit/s
95th percentile per-packet one-way delay: 36.718 ms
Loss rate: 0.00%
```

Run 9: Report of Sprout — Data Link

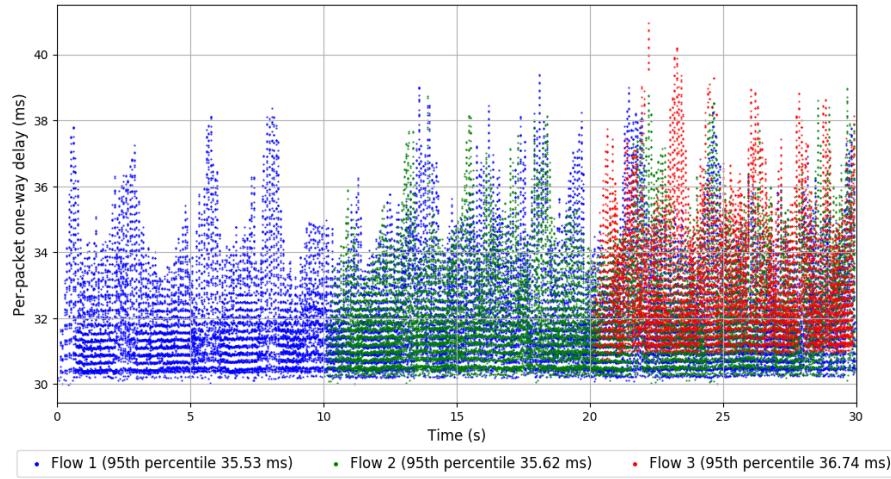
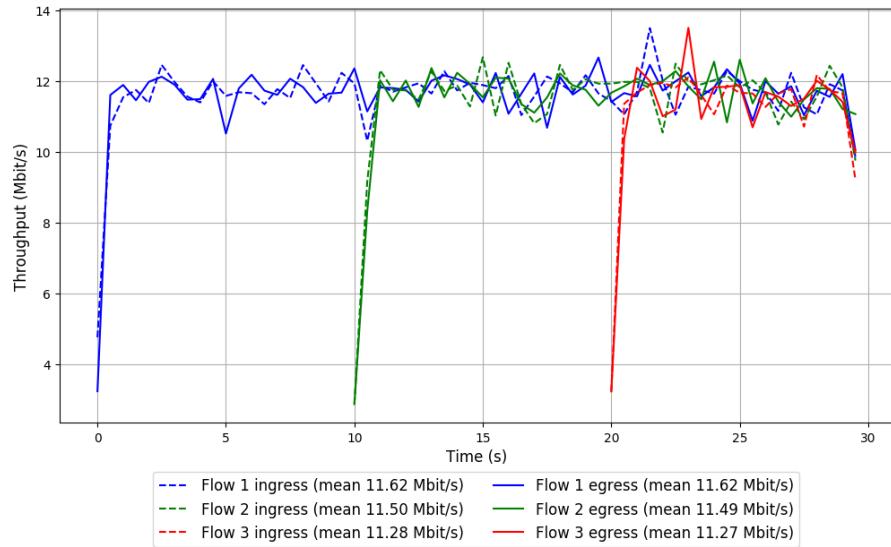


Run 10: Statistics of Sprout

```
Start at: 2018-04-25 01:13:54
End at: 2018-04-25 01:14:24
Local clock offset: 1.087 ms
Remote clock offset: -4.317 ms

# Below is generated by plot.py at 2018-04-25 01:48:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.97 Mbit/s
95th percentile per-packet one-way delay: 35.829 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.62 Mbit/s
95th percentile per-packet one-way delay: 35.527 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.49 Mbit/s
95th percentile per-packet one-way delay: 35.619 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.27 Mbit/s
95th percentile per-packet one-way delay: 36.743 ms
Loss rate: 0.00%
```

Run 10: Report of Sprout — Data Link

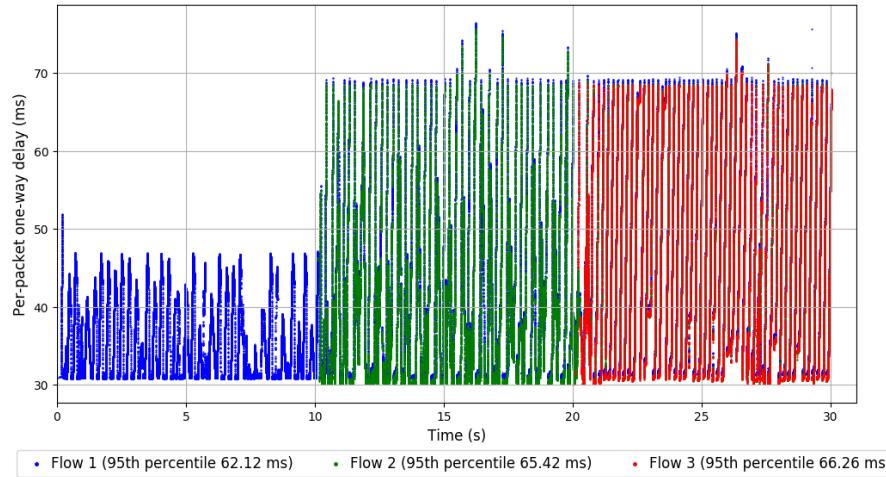
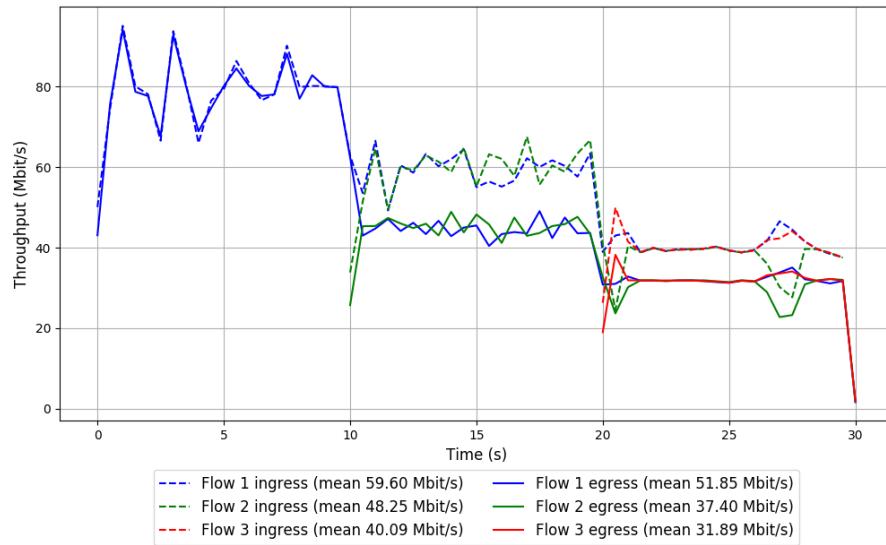


Run 1: Statistics of TaoVA-100x

```
Start at: 2018-04-24 21:02:55
End at: 2018-04-24 21:03:25
Local clock offset: 1.254 ms
Remote clock offset: 0.364 ms

# Below is generated by plot.py at 2018-04-25 01:50:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.38 Mbit/s
95th percentile per-packet one-way delay: 64.478 ms
Loss rate: 16.71%
-- Flow 1:
Average throughput: 51.85 Mbit/s
95th percentile per-packet one-way delay: 62.120 ms
Loss rate: 12.90%
-- Flow 2:
Average throughput: 37.40 Mbit/s
95th percentile per-packet one-way delay: 65.419 ms
Loss rate: 22.35%
-- Flow 3:
Average throughput: 31.89 Mbit/s
95th percentile per-packet one-way delay: 66.261 ms
Loss rate: 20.15%
```

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

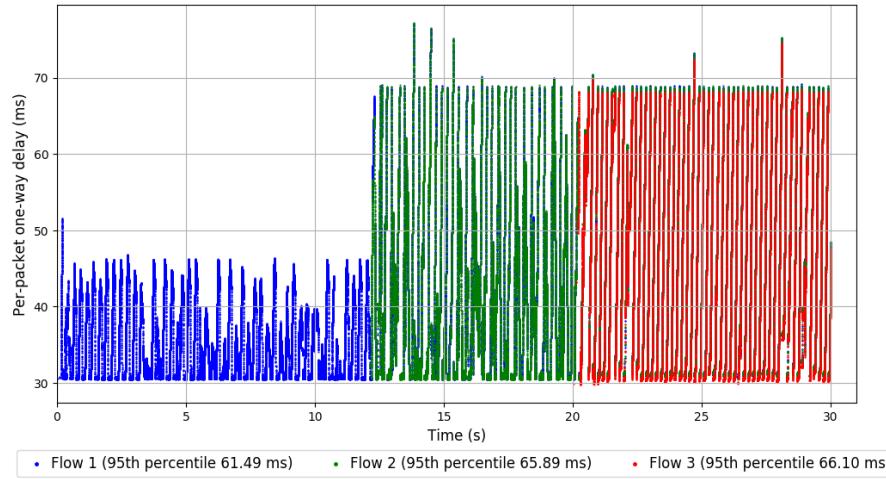
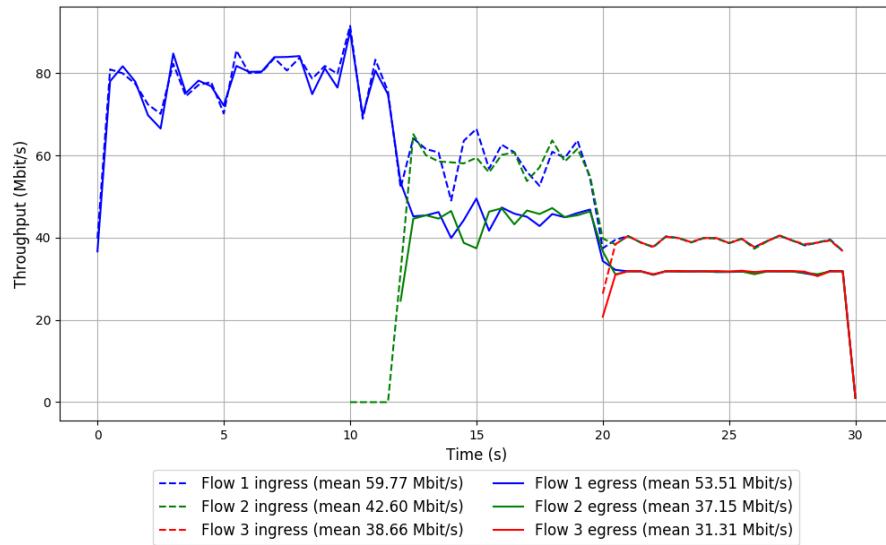


Run 2: Statistics of TaoVA-100x

```
Start at: 2018-04-24 21:28:16
End at: 2018-04-24 21:28:46
Local clock offset: 1.359 ms
Remote clock offset: -0.307 ms

# Below is generated by plot.py at 2018-04-25 01:50:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.16 Mbit/s
95th percentile per-packet one-way delay: 64.157 ms
Loss rate: 14.62%
-- Flow 1:
Average throughput: 53.51 Mbit/s
95th percentile per-packet one-way delay: 61.488 ms
Loss rate: 10.43%
-- Flow 2:
Average throughput: 37.15 Mbit/s
95th percentile per-packet one-way delay: 65.894 ms
Loss rate: 21.52%
-- Flow 3:
Average throughput: 31.31 Mbit/s
95th percentile per-packet one-way delay: 66.102 ms
Loss rate: 18.88%
```

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

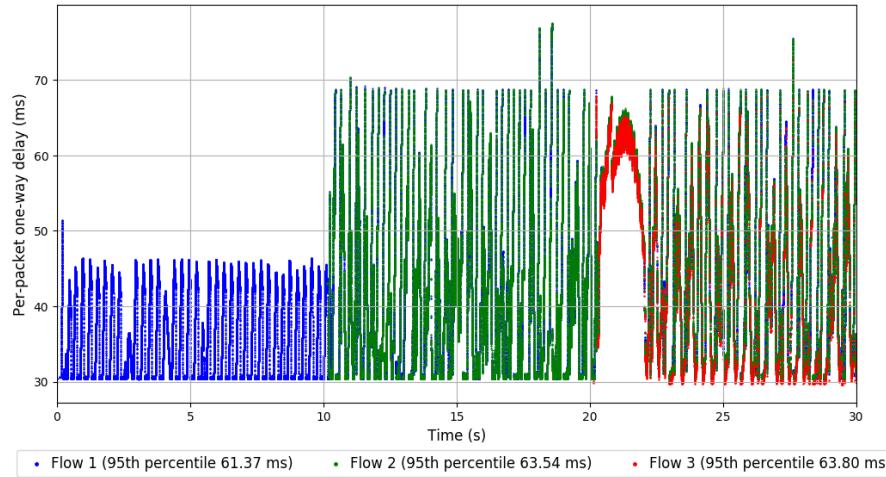
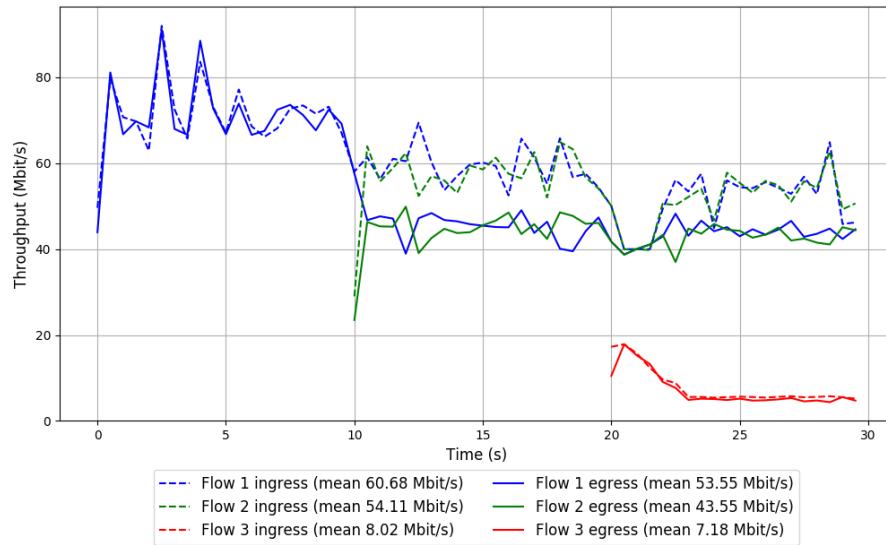


Run 3: Statistics of TaoVA-100x

```
Start at: 2018-04-24 21:53:41
End at: 2018-04-24 21:54:11
Local clock offset: 0.591 ms
Remote clock offset: -0.888 ms

# Below is generated by plot.py at 2018-04-25 01:50:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.93 Mbit/s
95th percentile per-packet one-way delay: 62.529 ms
Loss rate: 14.54%
-- Flow 1:
Average throughput: 53.55 Mbit/s
95th percentile per-packet one-way delay: 61.374 ms
Loss rate: 11.75%
-- Flow 2:
Average throughput: 43.55 Mbit/s
95th percentile per-packet one-way delay: 63.540 ms
Loss rate: 19.55%
-- Flow 3:
Average throughput: 7.18 Mbit/s
95th percentile per-packet one-way delay: 63.801 ms
Loss rate: 10.42%
```

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

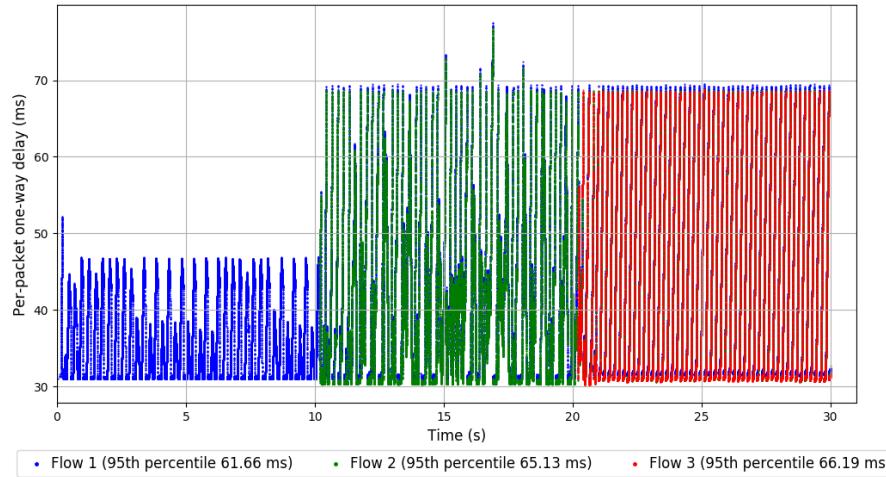
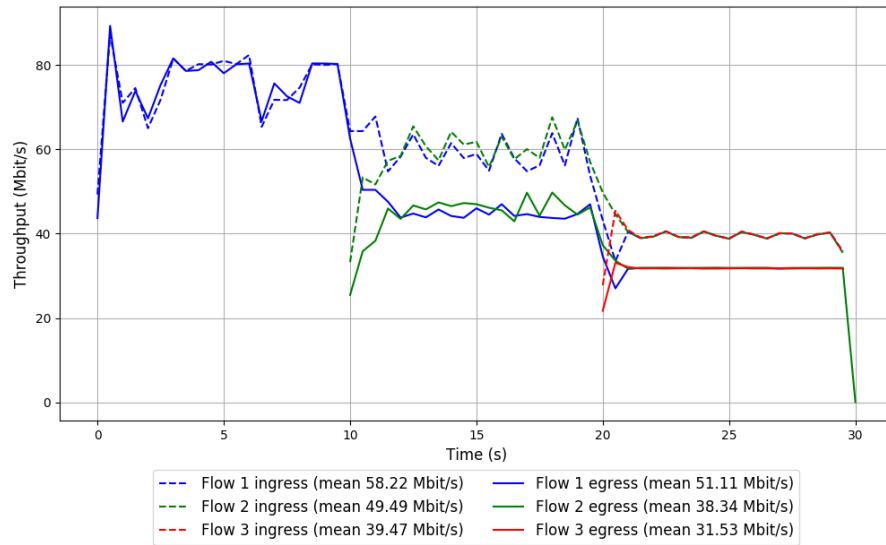


Run 4: Statistics of TaoVA-100x

```
Start at: 2018-04-24 22:19:03
End at: 2018-04-24 22:19:33
Local clock offset: 0.34 ms
Remote clock offset: 0.452 ms

# Below is generated by plot.py at 2018-04-25 01:50:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.10 Mbit/s
95th percentile per-packet one-way delay: 64.045 ms
Loss rate: 16.46%
-- Flow 1:
Average throughput: 51.11 Mbit/s
95th percentile per-packet one-way delay: 61.660 ms
Loss rate: 12.22%
-- Flow 2:
Average throughput: 38.34 Mbit/s
95th percentile per-packet one-way delay: 65.130 ms
Loss rate: 22.52%
-- Flow 3:
Average throughput: 31.53 Mbit/s
95th percentile per-packet one-way delay: 66.190 ms
Loss rate: 20.11%
```

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

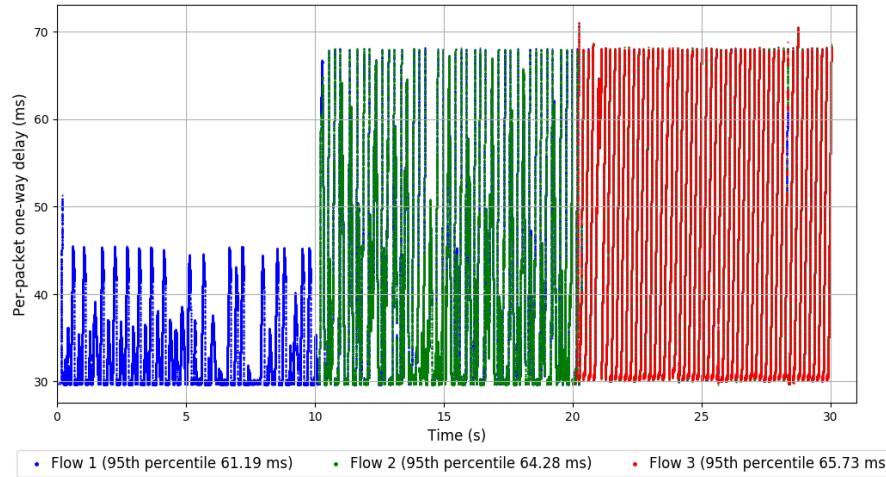
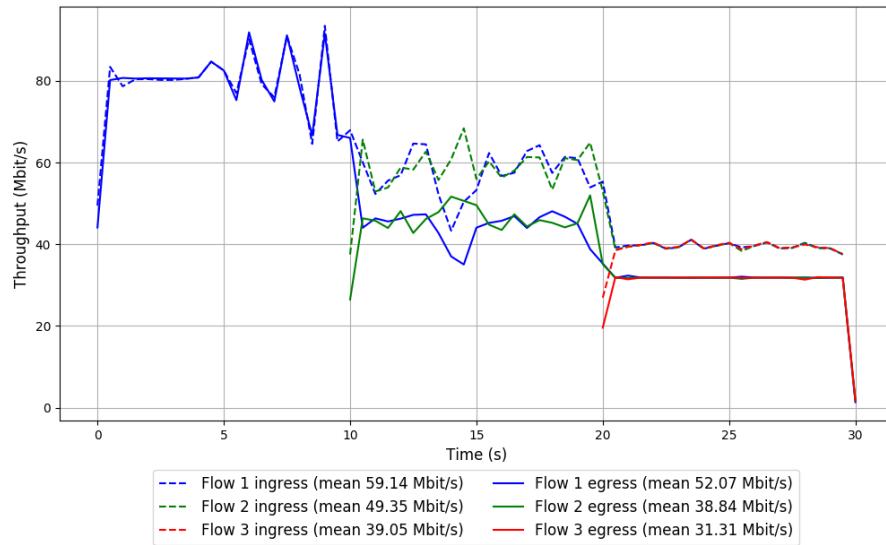


Run 5: Statistics of TaoVA-100x

```
Start at: 2018-04-24 22:43:16
End at: 2018-04-24 22:43:46
Local clock offset: 0.281 ms
Remote clock offset: -0.384 ms

# Below is generated by plot.py at 2018-04-25 01:50:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.37 Mbit/s
95th percentile per-packet one-way delay: 63.412 ms
Loss rate: 15.71%
-- Flow 1:
Average throughput: 52.07 Mbit/s
95th percentile per-packet one-way delay: 61.190 ms
Loss rate: 11.86%
-- Flow 2:
Average throughput: 38.84 Mbit/s
95th percentile per-packet one-way delay: 64.285 ms
Loss rate: 21.16%
-- Flow 3:
Average throughput: 31.31 Mbit/s
95th percentile per-packet one-way delay: 65.731 ms
Loss rate: 19.51%
```

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

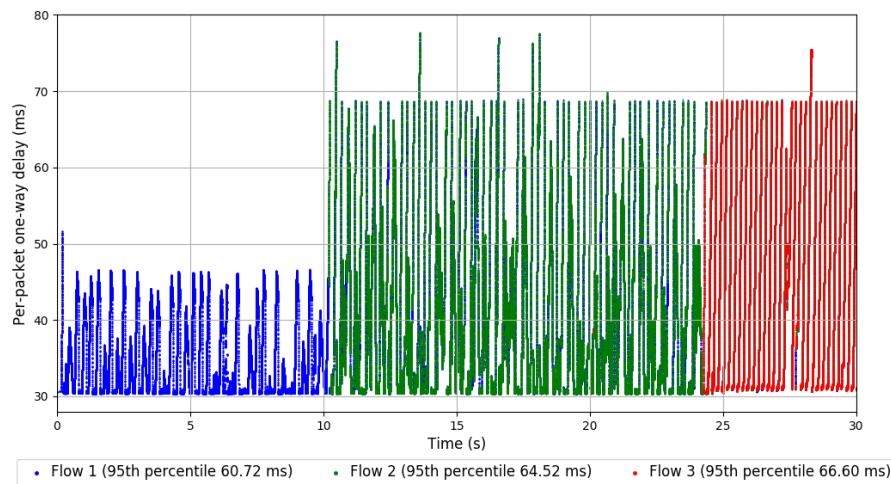
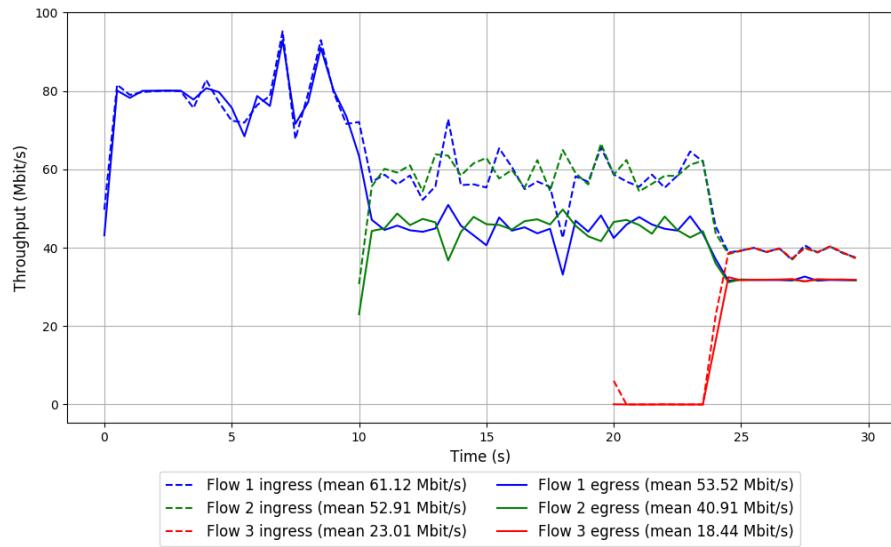


Run 6: Statistics of TaoVA-100x

```
Start at: 2018-04-24 23:07:54
End at: 2018-04-24 23:08:24
Local clock offset: 0.733 ms
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2018-04-25 01:50:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.89 Mbit/s
95th percentile per-packet one-way delay: 62.984 ms
Loss rate: 16.45%
-- Flow 1:
Average throughput: 53.52 Mbit/s
95th percentile per-packet one-way delay: 60.724 ms
Loss rate: 12.43%
-- Flow 2:
Average throughput: 40.91 Mbit/s
95th percentile per-packet one-way delay: 64.518 ms
Loss rate: 22.67%
-- Flow 3:
Average throughput: 18.44 Mbit/s
95th percentile per-packet one-way delay: 66.601 ms
Loss rate: 19.88%
```

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

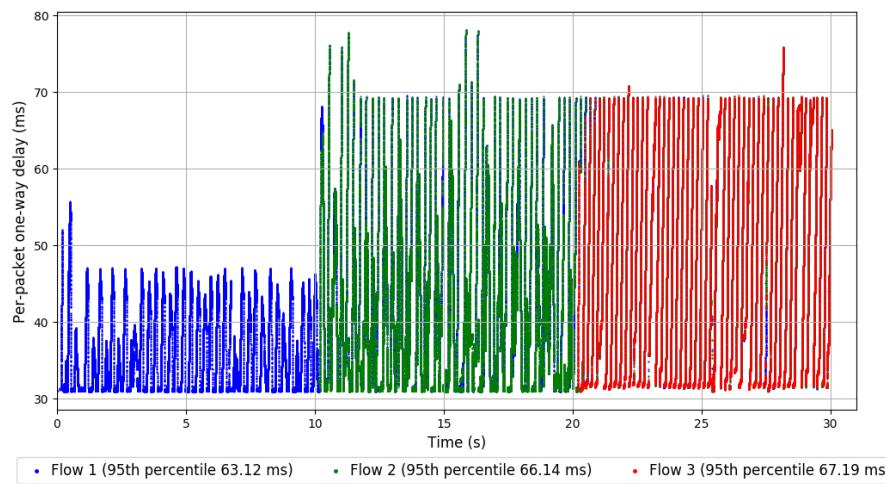
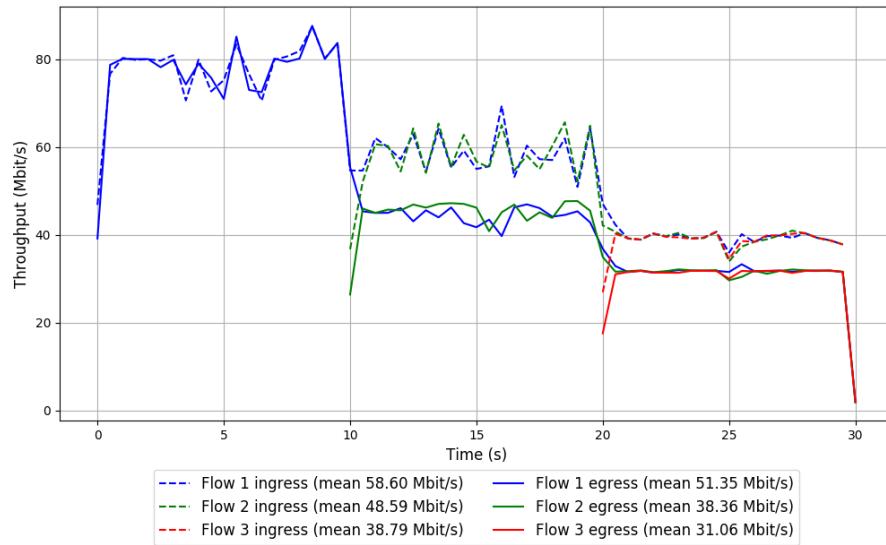


Run 7: Statistics of TaoVA-100x

```
Start at: 2018-04-24 23:33:26
End at: 2018-04-24 23:33:56
Local clock offset: 0.689 ms
Remote clock offset: 0.975 ms

# Below is generated by plot.py at 2018-04-25 01:51:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.21 Mbit/s
95th percentile per-packet one-way delay: 65.340 ms
Loss rate: 15.91%
-- Flow 1:
Average throughput: 51.35 Mbit/s
95th percentile per-packet one-way delay: 63.115 ms
Loss rate: 12.26%
-- Flow 2:
Average throughput: 38.36 Mbit/s
95th percentile per-packet one-way delay: 66.141 ms
Loss rate: 20.99%
-- Flow 3:
Average throughput: 31.06 Mbit/s
95th percentile per-packet one-way delay: 67.193 ms
Loss rate: 19.77%
```

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

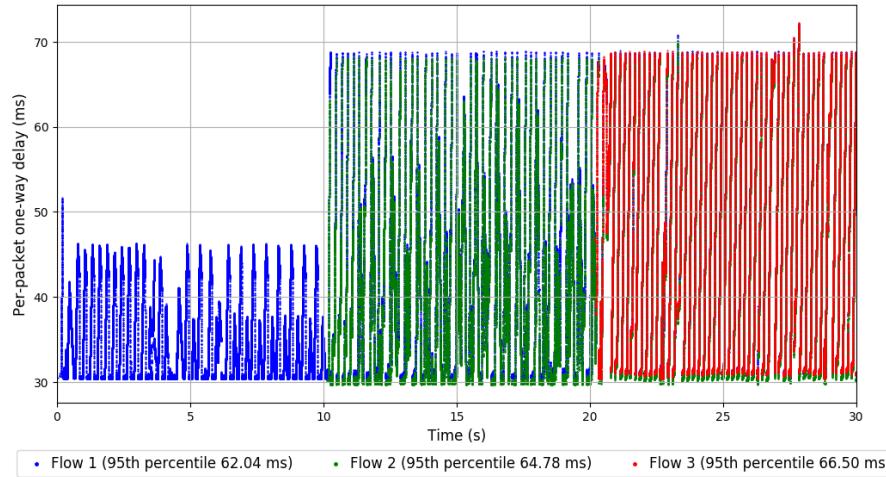
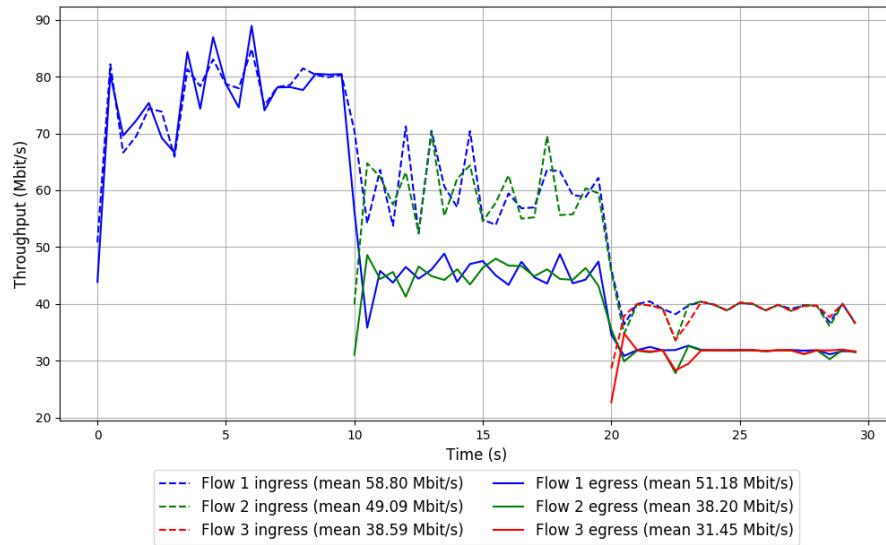


Run 8: Statistics of TaoVA-100x

```
Start at: 2018-04-24 23:58:24
End at: 2018-04-24 23:58:54
Local clock offset: 0.834 ms
Remote clock offset: 0.336 ms

# Below is generated by plot.py at 2018-04-25 01:51:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.03 Mbit/s
95th percentile per-packet one-way delay: 64.399 ms
Loss rate: 16.54%
-- Flow 1:
Average throughput: 51.18 Mbit/s
95th percentile per-packet one-way delay: 62.043 ms
Loss rate: 12.95%
-- Flow 2:
Average throughput: 38.20 Mbit/s
95th percentile per-packet one-way delay: 64.778 ms
Loss rate: 22.18%
-- Flow 3:
Average throughput: 31.45 Mbit/s
95th percentile per-packet one-way delay: 66.500 ms
Loss rate: 18.60%
```

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

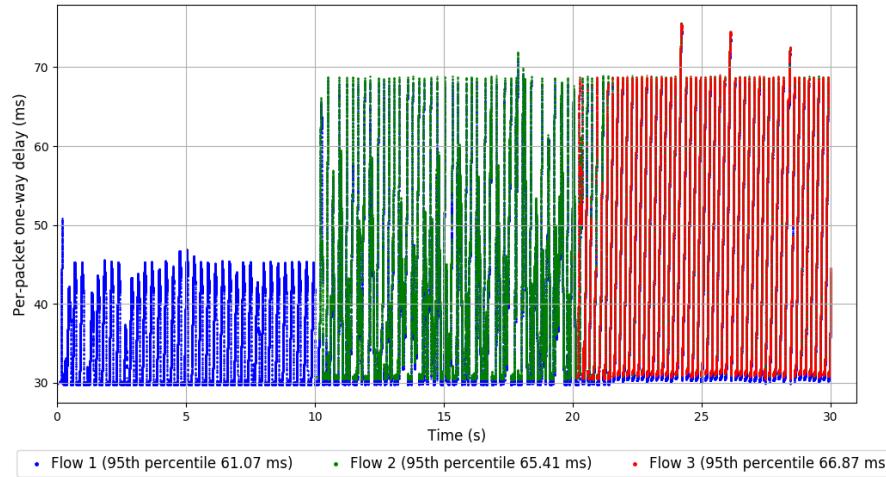
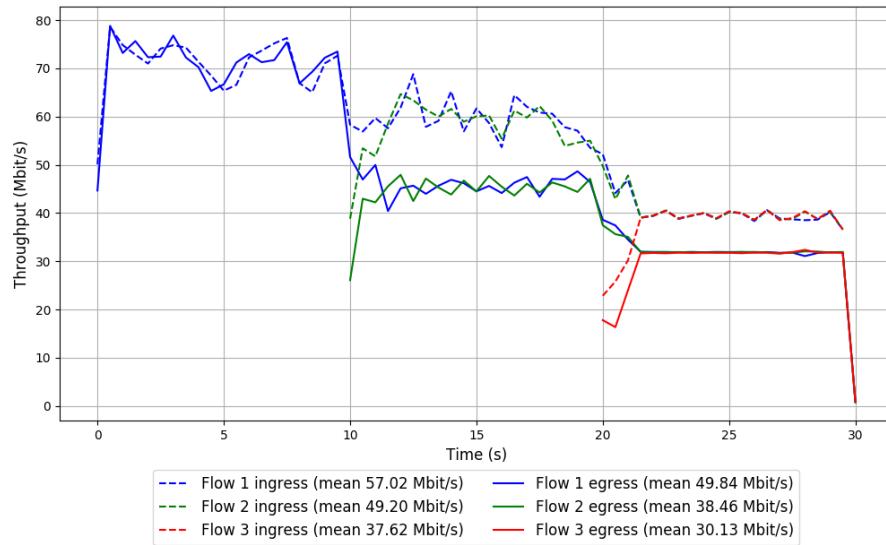


Run 9: Statistics of TaoVA-100x

```
Start at: 2018-04-25 00:24:07
End at: 2018-04-25 00:24:37
Local clock offset: 1.189 ms
Remote clock offset: -0.284 ms

# Below is generated by plot.py at 2018-04-25 01:53:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.44 Mbit/s
95th percentile per-packet one-way delay: 64.005 ms
Loss rate: 16.42%
-- Flow 1:
Average throughput: 49.84 Mbit/s
95th percentile per-packet one-way delay: 61.067 ms
Loss rate: 12.56%
-- Flow 2:
Average throughput: 38.46 Mbit/s
95th percentile per-packet one-way delay: 65.405 ms
Loss rate: 21.78%
-- Flow 3:
Average throughput: 30.13 Mbit/s
95th percentile per-packet one-way delay: 66.867 ms
Loss rate: 19.93%
```

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

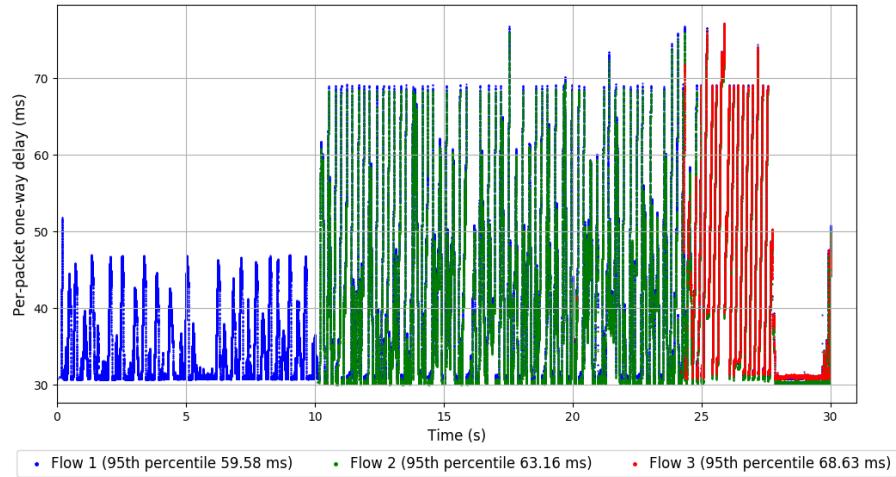
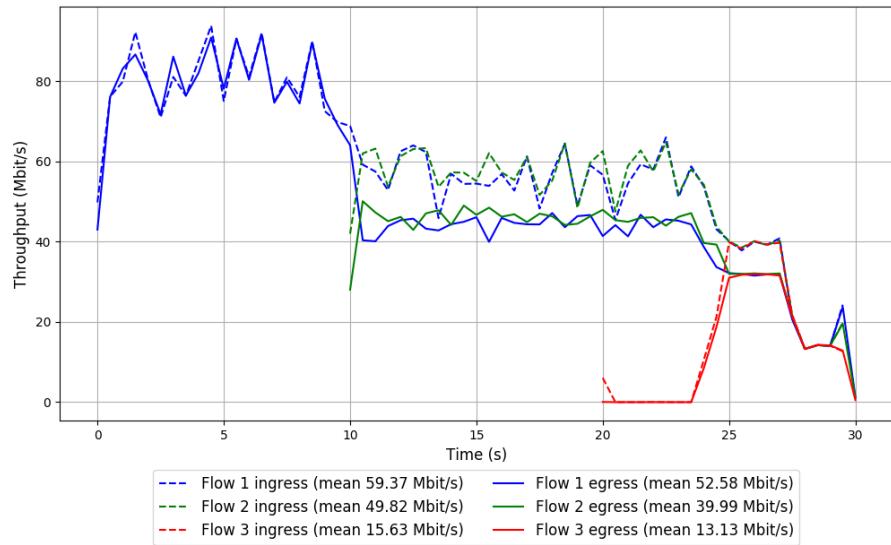


Run 10: Statistics of TaoVA-100x

```
Start at: 2018-04-25 00:50:43
End at: 2018-04-25 00:51:13
Local clock offset: 1.0 ms
Remote clock offset: -2.109 ms

# Below is generated by plot.py at 2018-04-25 01:53:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.57 Mbit/s
95th percentile per-packet one-way delay: 61.667 ms
Loss rate: 14.44%
-- Flow 1:
Average throughput: 52.58 Mbit/s
95th percentile per-packet one-way delay: 59.577 ms
Loss rate: 11.40%
-- Flow 2:
Average throughput: 39.99 Mbit/s
95th percentile per-packet one-way delay: 63.155 ms
Loss rate: 19.65%
-- Flow 3:
Average throughput: 13.13 Mbit/s
95th percentile per-packet one-way delay: 68.631 ms
Loss rate: 15.91%
```

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

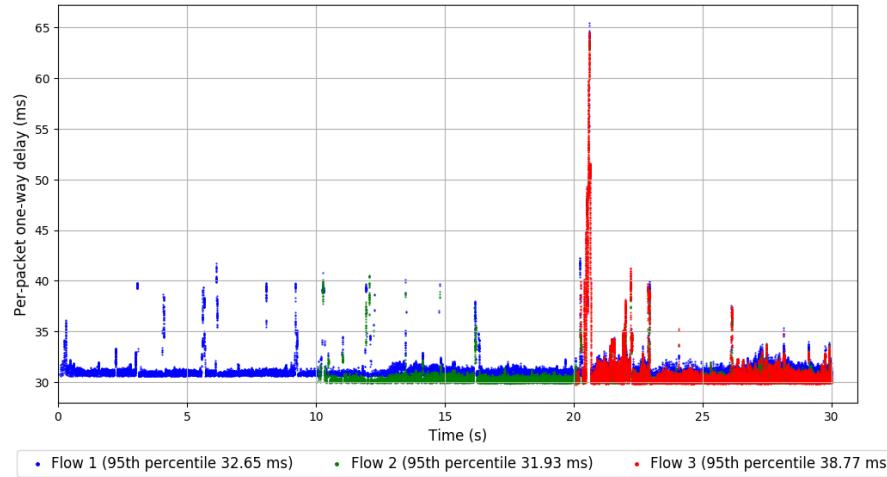
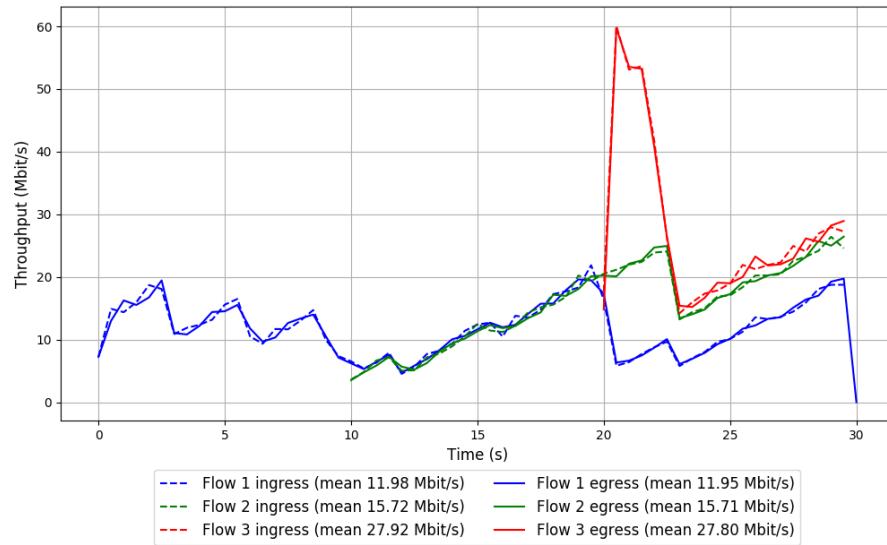


Run 1: Statistics of TCP Vegas

```
Start at: 2018-04-24 21:15:10
End at: 2018-04-24 21:15:40
Local clock offset: 1.18 ms
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2018-04-25 01:53:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.64 Mbit/s
95th percentile per-packet one-way delay: 33.759 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 11.95 Mbit/s
95th percentile per-packet one-way delay: 32.650 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 15.71 Mbit/s
95th percentile per-packet one-way delay: 31.930 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 27.80 Mbit/s
95th percentile per-packet one-way delay: 38.766 ms
Loss rate: 0.44%
```

Run 1: Report of TCP Vegas — Data Link

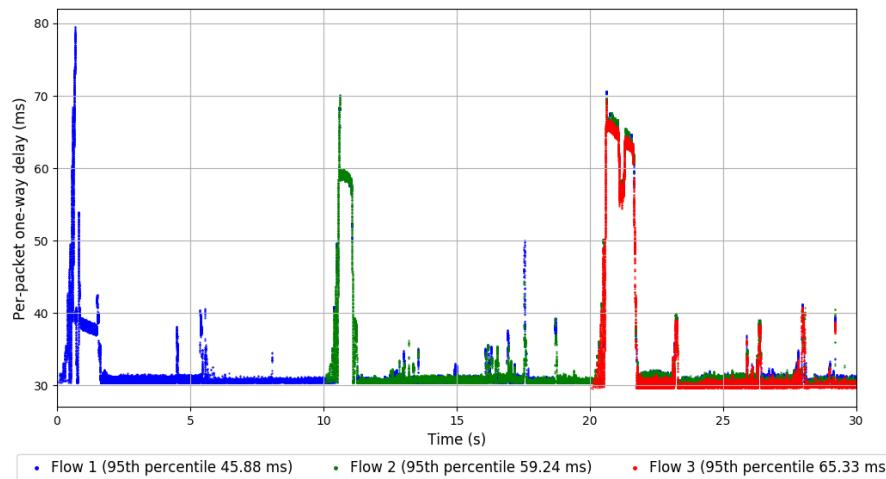
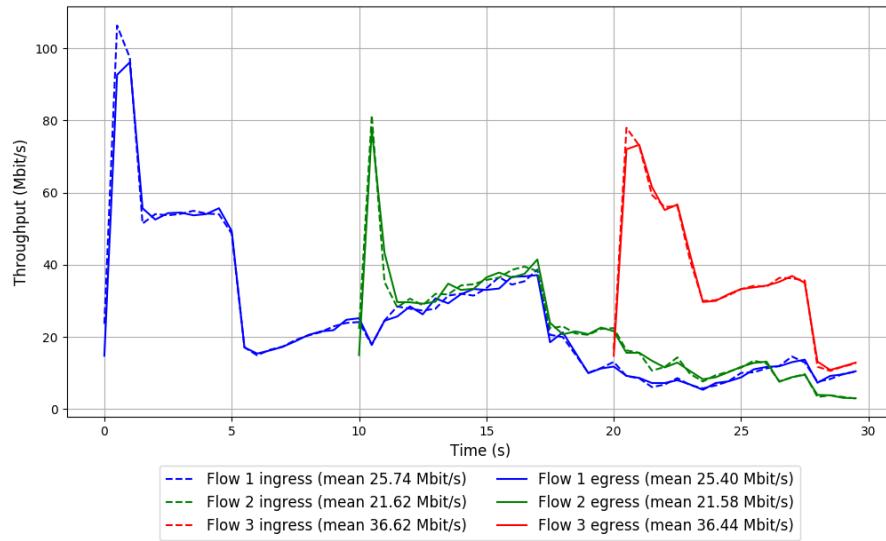


Run 2: Statistics of TCP Vegas

```
Start at: 2018-04-24 21:40:21
End at: 2018-04-24 21:40:51
Local clock offset: 0.948 ms
Remote clock offset: -0.604 ms

# Below is generated by plot.py at 2018-04-25 01:53:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 51.83 Mbit/s
95th percentile per-packet one-way delay: 62.972 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 25.40 Mbit/s
95th percentile per-packet one-way delay: 45.878 ms
Loss rate: 1.35%
-- Flow 2:
Average throughput: 21.58 Mbit/s
95th percentile per-packet one-way delay: 59.237 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 36.44 Mbit/s
95th percentile per-packet one-way delay: 65.330 ms
Loss rate: 0.49%
```

Run 2: Report of TCP Vegas — Data Link

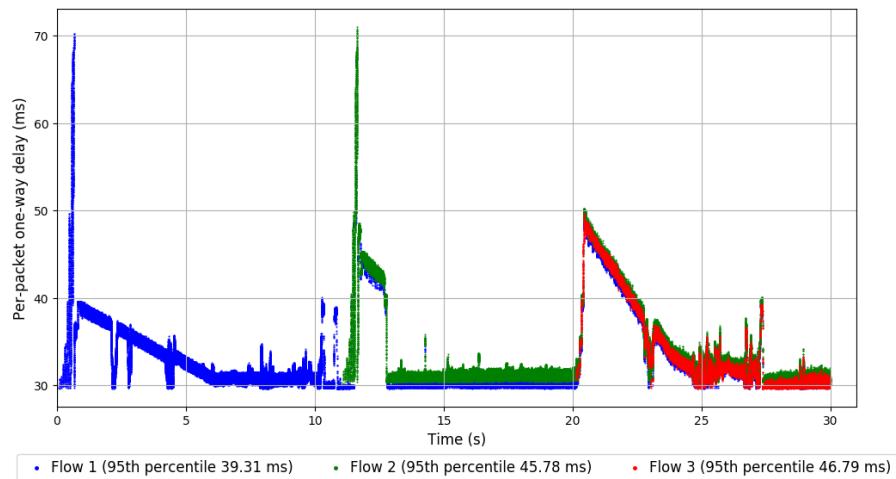
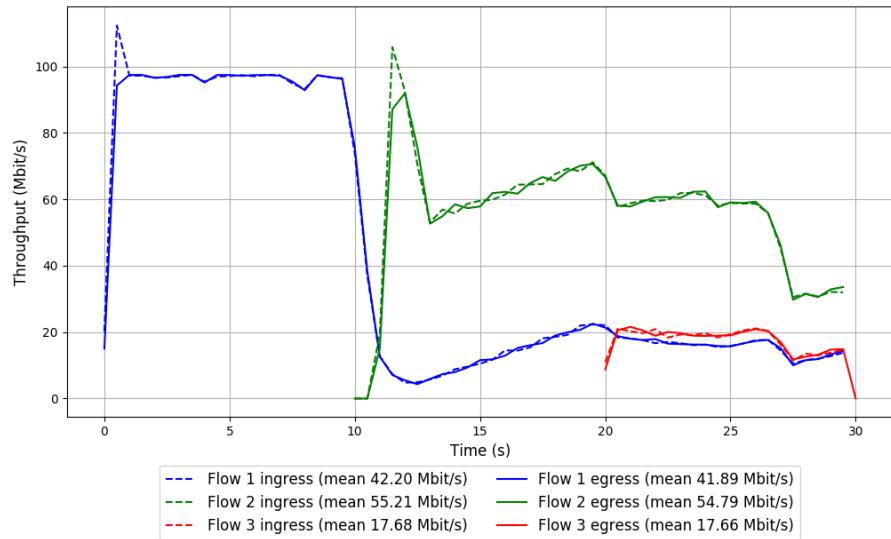


Run 3: Statistics of TCP Vegas

```
Start at: 2018-04-24 22:05:59
End at: 2018-04-24 22:06:29
Local clock offset: 0.416 ms
Remote clock offset: -0.186 ms

# Below is generated by plot.py at 2018-04-25 01:53:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.22 Mbit/s
95th percentile per-packet one-way delay: 44.615 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 41.89 Mbit/s
95th percentile per-packet one-way delay: 39.311 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 54.79 Mbit/s
95th percentile per-packet one-way delay: 45.776 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 17.66 Mbit/s
95th percentile per-packet one-way delay: 46.788 ms
Loss rate: 0.09%
```

Run 3: Report of TCP Vegas — Data Link

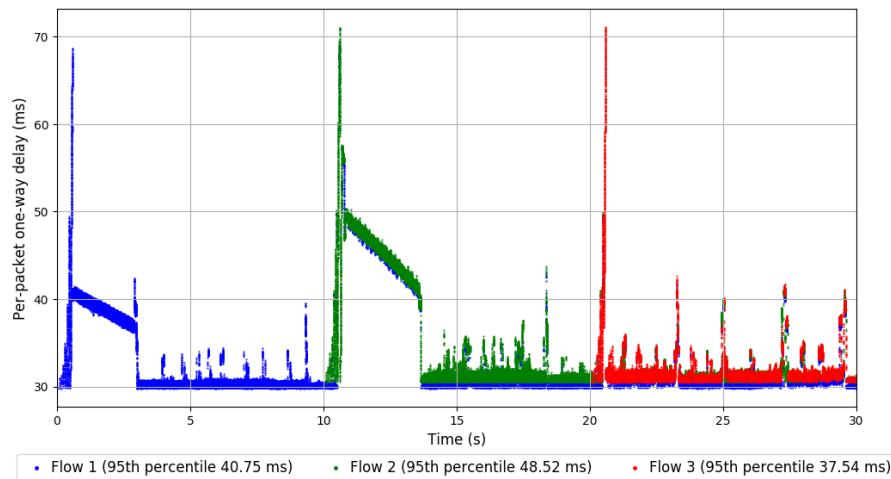
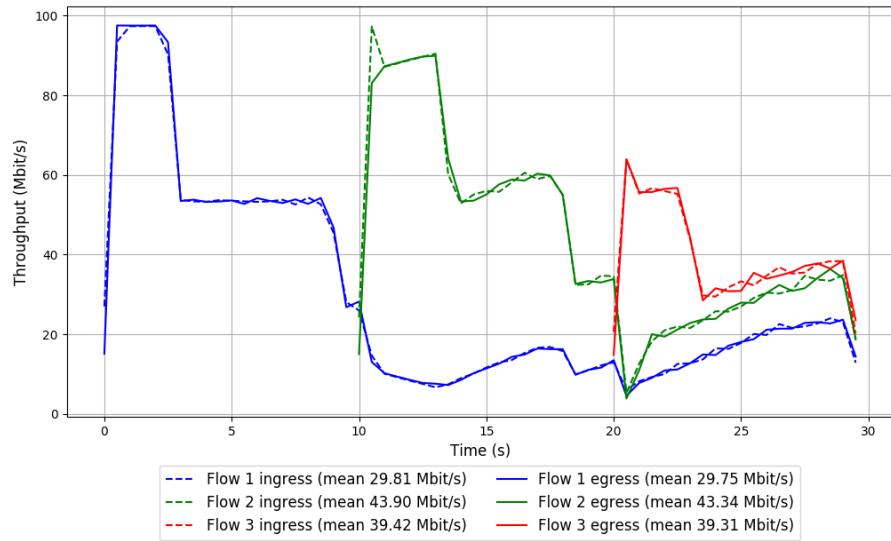


Run 4: Statistics of TCP Vegas

```
Start at: 2018-04-24 22:30:22
End at: 2018-04-24 22:30:52
Local clock offset: 0.207 ms
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2018-04-25 01:53:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.64 Mbit/s
95th percentile per-packet one-way delay: 47.289 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 29.75 Mbit/s
95th percentile per-packet one-way delay: 40.752 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 43.34 Mbit/s
95th percentile per-packet one-way delay: 48.524 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 39.31 Mbit/s
95th percentile per-packet one-way delay: 37.538 ms
Loss rate: 0.31%
```

Run 4: Report of TCP Vegas — Data Link

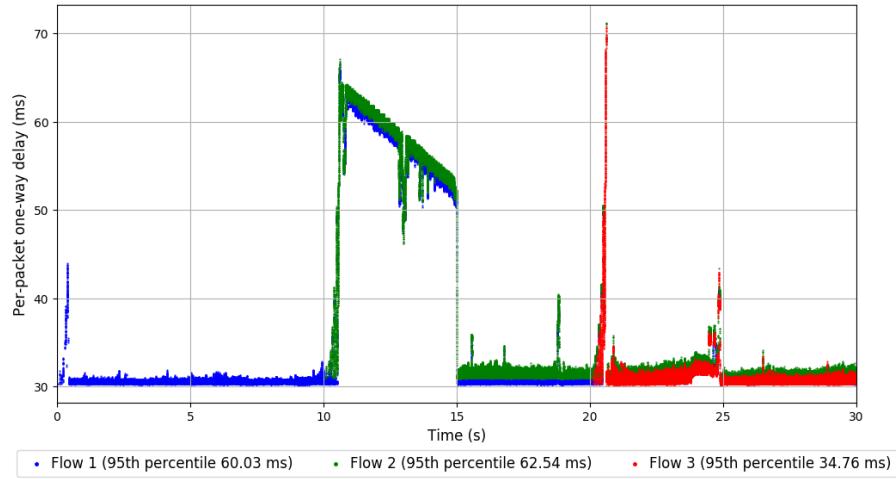
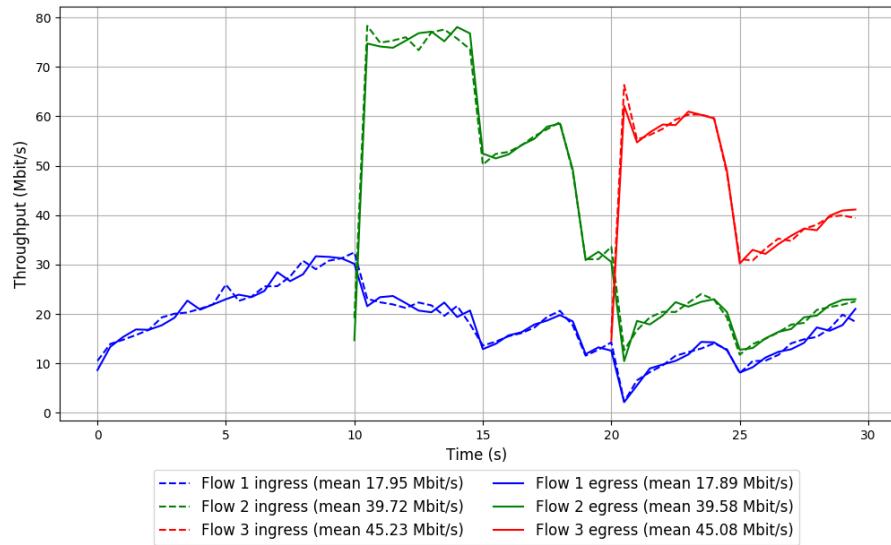


Run 5: Statistics of TCP Vegas

```
Start at: 2018-04-24 22:55:04
End at: 2018-04-24 22:55:34
Local clock offset: 0.579 ms
Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2018-04-25 01:53:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.20 Mbit/s
95th percentile per-packet one-way delay: 61.506 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 17.89 Mbit/s
95th percentile per-packet one-way delay: 60.027 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 39.58 Mbit/s
95th percentile per-packet one-way delay: 62.537 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 45.08 Mbit/s
95th percentile per-packet one-way delay: 34.755 ms
Loss rate: 0.33%
```

Run 5: Report of TCP Vegas — Data Link

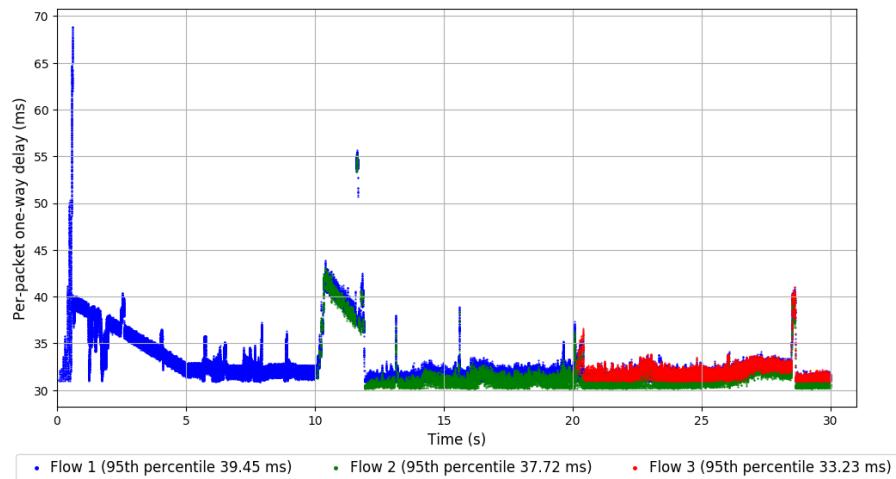
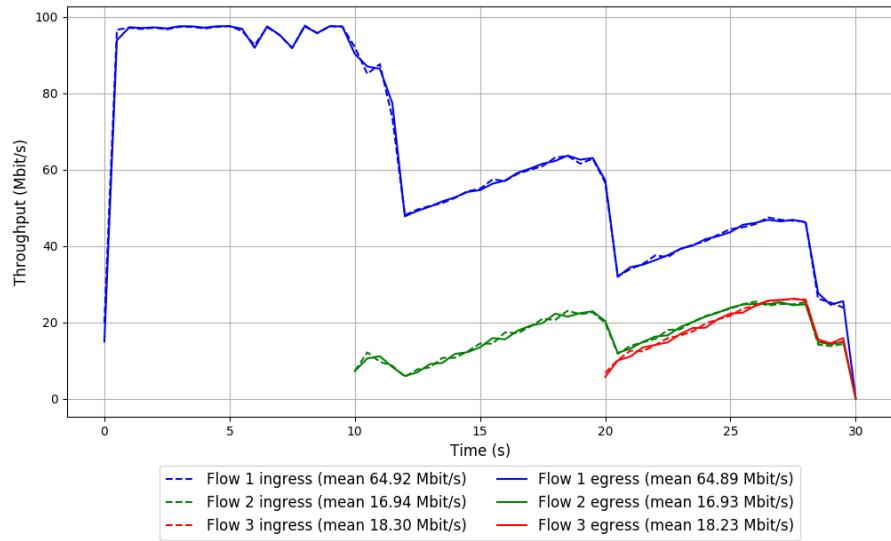


Run 6: Statistics of TCP Vegas

```
Start at: 2018-04-24 23:20:23
End at: 2018-04-24 23:20:53
Local clock offset: 0.666 ms
Remote clock offset: 0.799 ms

# Below is generated by plot.py at 2018-04-25 01:53:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.21 Mbit/s
95th percentile per-packet one-way delay: 39.247 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 64.89 Mbit/s
95th percentile per-packet one-way delay: 39.454 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 16.93 Mbit/s
95th percentile per-packet one-way delay: 37.715 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 18.23 Mbit/s
95th percentile per-packet one-way delay: 33.225 ms
Loss rate: 0.40%
```

Run 6: Report of TCP Vegas — Data Link

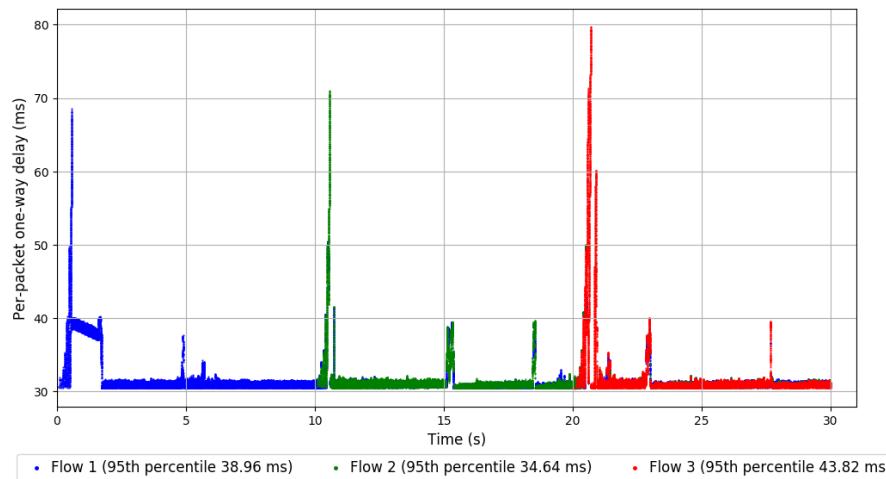
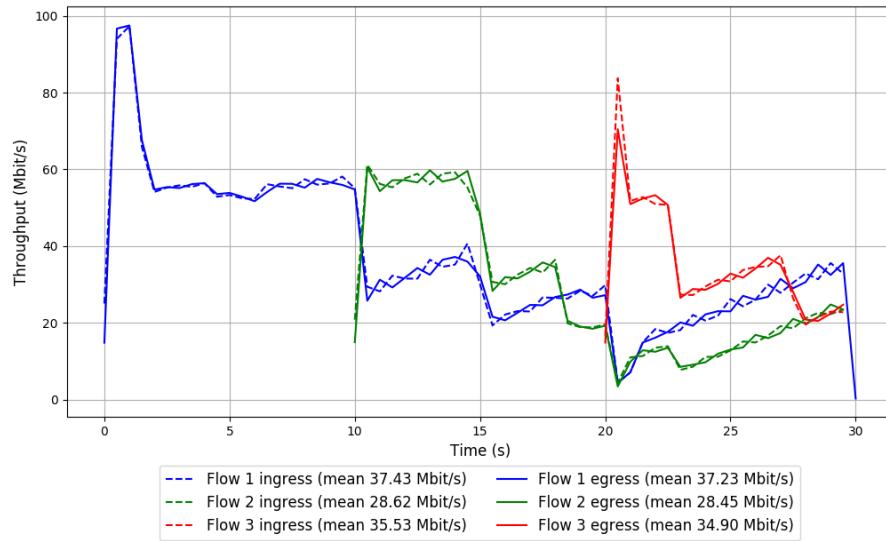


Run 7: Statistics of TCP Vegas

```
Start at: 2018-04-24 23:45:31
End at: 2018-04-24 23:46:01
Local clock offset: 0.679 ms
Remote clock offset: 0.308 ms

# Below is generated by plot.py at 2018-04-25 01:53:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.72 Mbit/s
95th percentile per-packet one-way delay: 38.811 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 37.23 Mbit/s
95th percentile per-packet one-way delay: 38.956 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 28.45 Mbit/s
95th percentile per-packet one-way delay: 34.642 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 34.90 Mbit/s
95th percentile per-packet one-way delay: 43.818 ms
Loss rate: 1.77%
```

Run 7: Report of TCP Vegas — Data Link

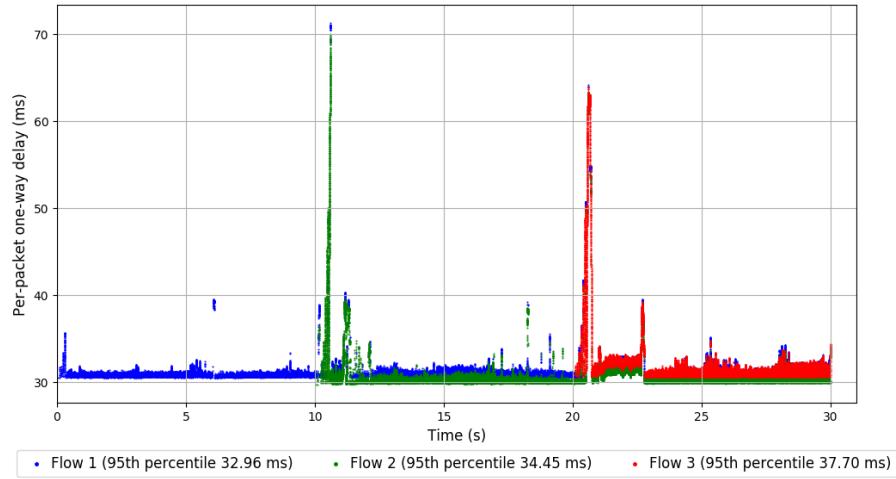
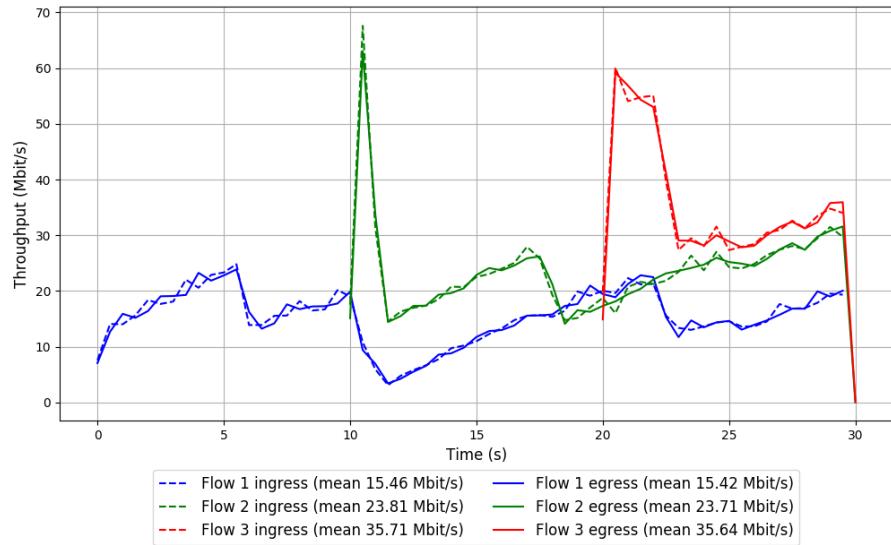


Run 8: Statistics of TCP Vegas

```
Start at: 2018-04-25 00:10:58
End at: 2018-04-25 00:11:28
Local clock offset: 0.972 ms
Remote clock offset: 0.708 ms

# Below is generated by plot.py at 2018-04-25 01:53:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 43.05 Mbit/s
95th percentile per-packet one-way delay: 34.246 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 15.42 Mbit/s
95th percentile per-packet one-way delay: 32.957 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 23.71 Mbit/s
95th percentile per-packet one-way delay: 34.454 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 35.64 Mbit/s
95th percentile per-packet one-way delay: 37.703 ms
Loss rate: 0.19%
```

Run 8: Report of TCP Vegas — Data Link

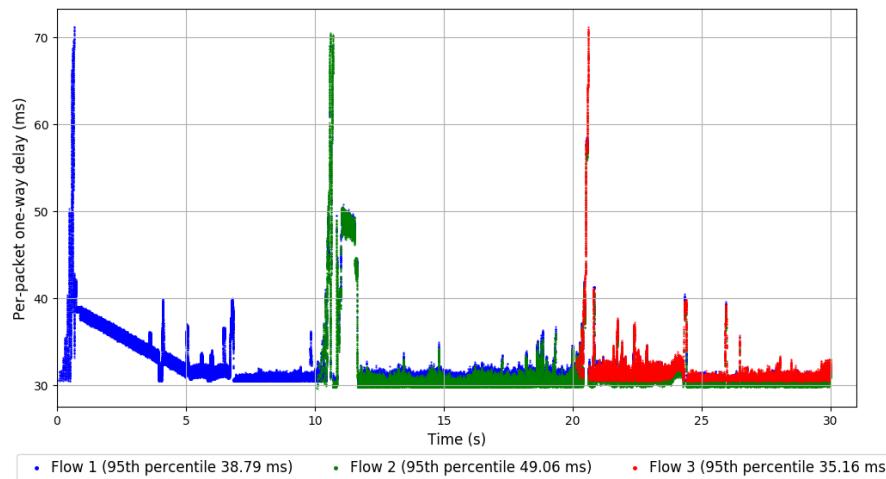
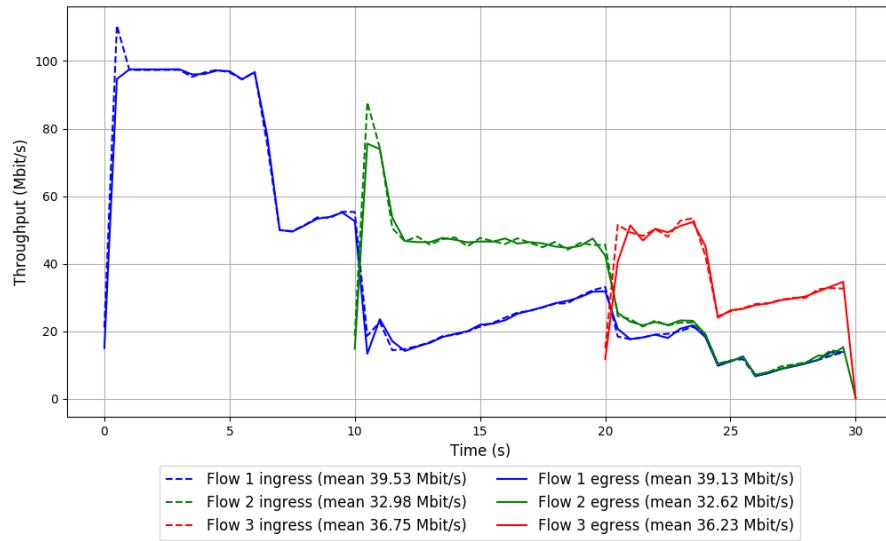


Run 9: Statistics of TCP Vegas

```
Start at: 2018-04-25 00:37:07
End at: 2018-04-25 00:37:37
Local clock offset: 0.934 ms
Remote clock offset: -0.596 ms

# Below is generated by plot.py at 2018-04-25 01:53:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.86 Mbit/s
95th percentile per-packet one-way delay: 41.287 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 39.13 Mbit/s
95th percentile per-packet one-way delay: 38.790 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 32.62 Mbit/s
95th percentile per-packet one-way delay: 49.059 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 36.23 Mbit/s
95th percentile per-packet one-way delay: 35.164 ms
Loss rate: 1.41%
```

Run 9: Report of TCP Vegas — Data Link

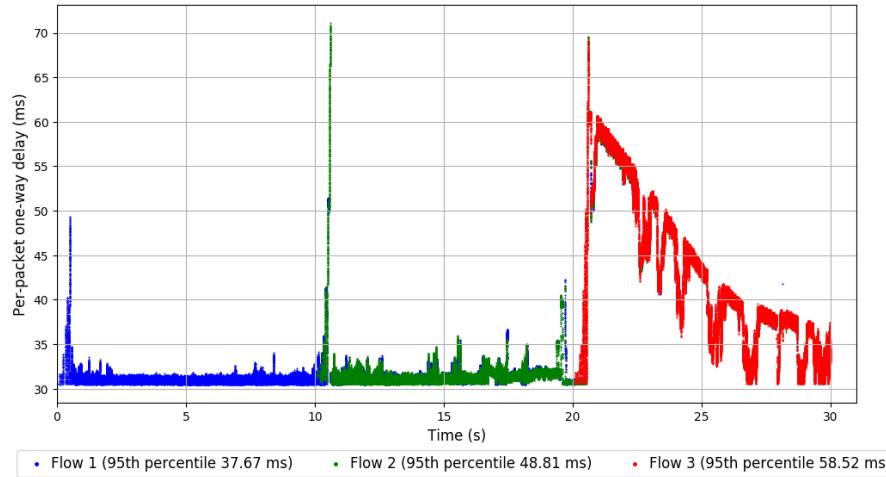
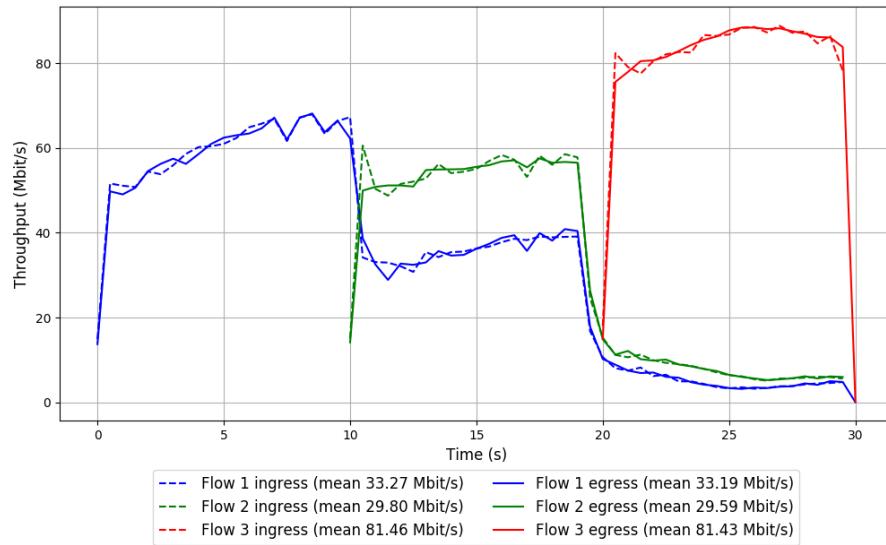


Run 10: Statistics of TCP Vegas

```
Start at: 2018-04-25 01:04:05
End at: 2018-04-25 01:04:35
Local clock offset: 1.097 ms
Remote clock offset: -4.097 ms

# Below is generated by plot.py at 2018-04-25 01:53:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.94 Mbit/s
95th percentile per-packet one-way delay: 55.775 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 33.19 Mbit/s
95th percentile per-packet one-way delay: 37.666 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 29.59 Mbit/s
95th percentile per-packet one-way delay: 48.806 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 81.43 Mbit/s
95th percentile per-packet one-way delay: 58.517 ms
Loss rate: 0.00%
```

Run 10: Report of TCP Vegas — Data Link

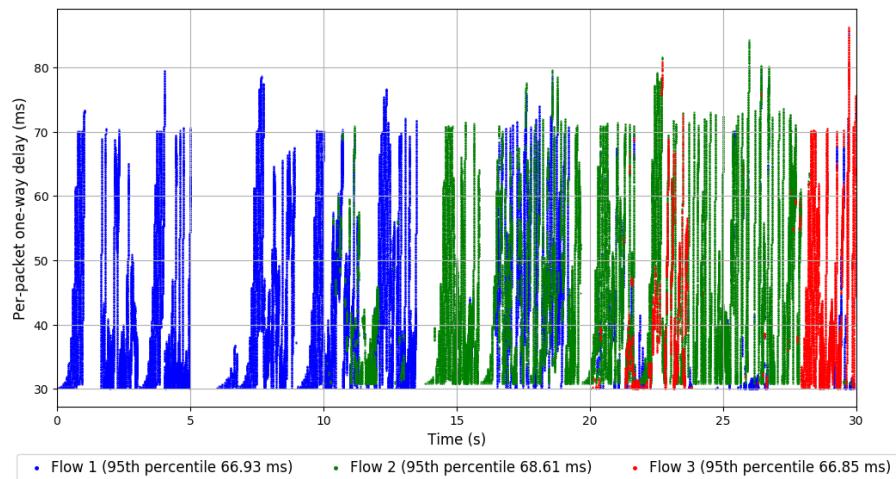
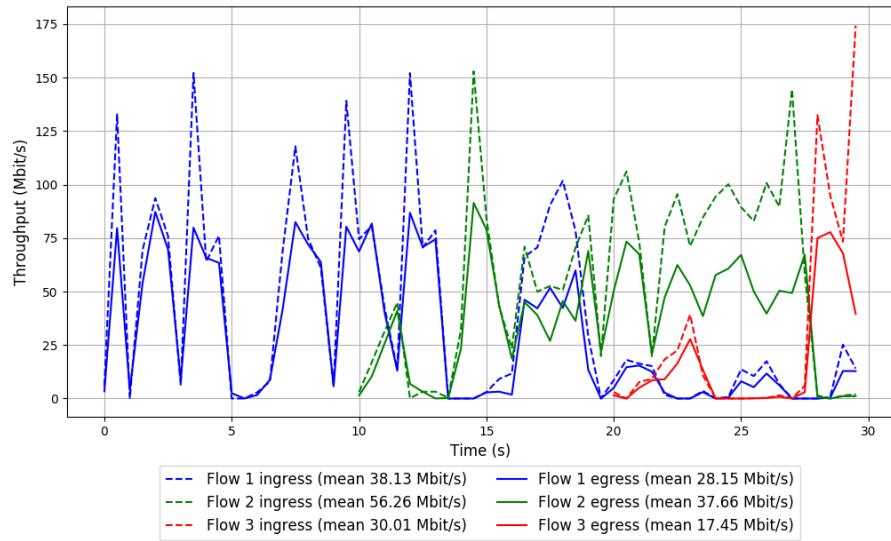


Run 1: Statistics of Verus

```
Start at: 2018-04-24 21:19:39
End at: 2018-04-24 21:20:09
Local clock offset: 1.308 ms
Remote clock offset: 0.16 ms

# Below is generated by plot.py at 2018-04-25 01:53:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.77 Mbit/s
95th percentile per-packet one-way delay: 67.618 ms
Loss rate: 31.06%
-- Flow 1:
Average throughput: 28.15 Mbit/s
95th percentile per-packet one-way delay: 66.929 ms
Loss rate: 26.11%
-- Flow 2:
Average throughput: 37.66 Mbit/s
95th percentile per-packet one-way delay: 68.612 ms
Loss rate: 33.28%
-- Flow 3:
Average throughput: 17.45 Mbit/s
95th percentile per-packet one-way delay: 66.848 ms
Loss rate: 41.70%
```

Run 1: Report of Verus — Data Link

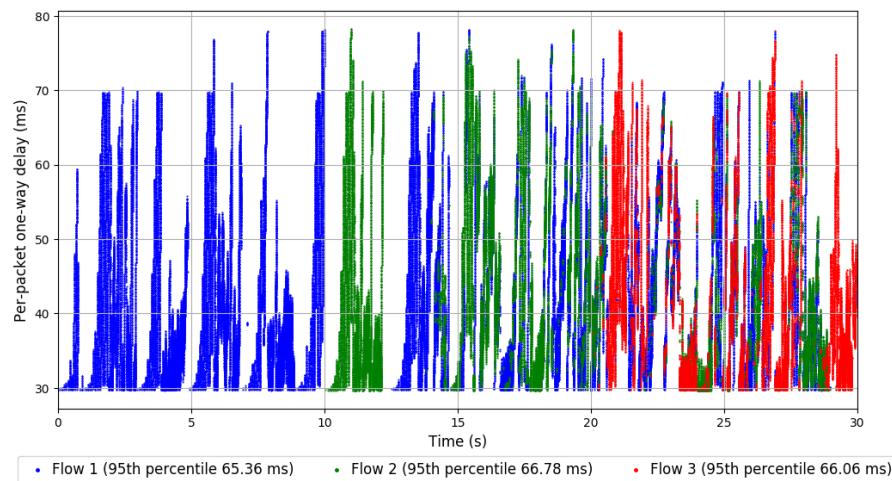
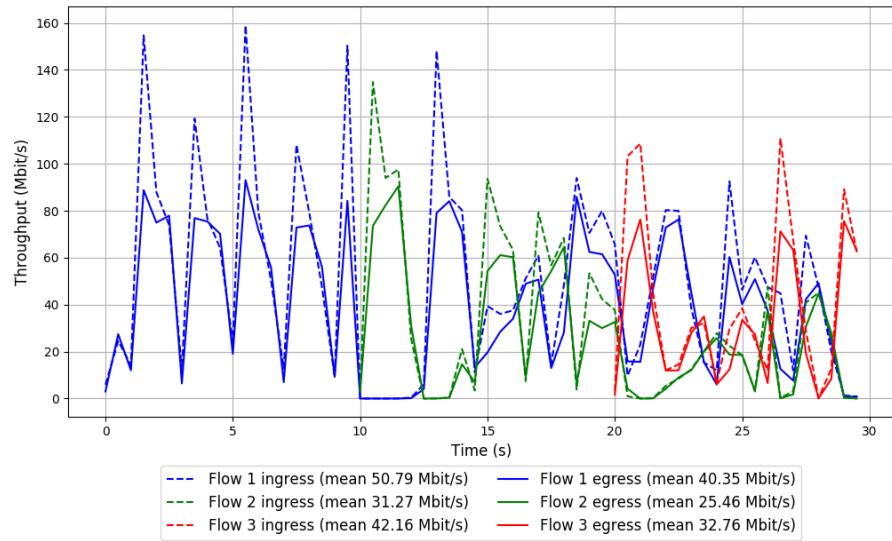


Run 2: Statistics of Verus

```
Start at: 2018-04-24 21:44:53
End at: 2018-04-24 21:45:23
Local clock offset: 0.771 ms
Remote clock offset: -0.659 ms

# Below is generated by plot.py at 2018-04-25 01:53:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.07 Mbit/s
95th percentile per-packet one-way delay: 65.912 ms
Loss rate: 20.31%
-- Flow 1:
Average throughput: 40.35 Mbit/s
95th percentile per-packet one-way delay: 65.361 ms
Loss rate: 20.51%
-- Flow 2:
Average throughput: 25.46 Mbit/s
95th percentile per-packet one-way delay: 66.781 ms
Loss rate: 18.52%
-- Flow 3:
Average throughput: 32.76 Mbit/s
95th percentile per-packet one-way delay: 66.062 ms
Loss rate: 22.22%
```

Run 2: Report of Verus — Data Link

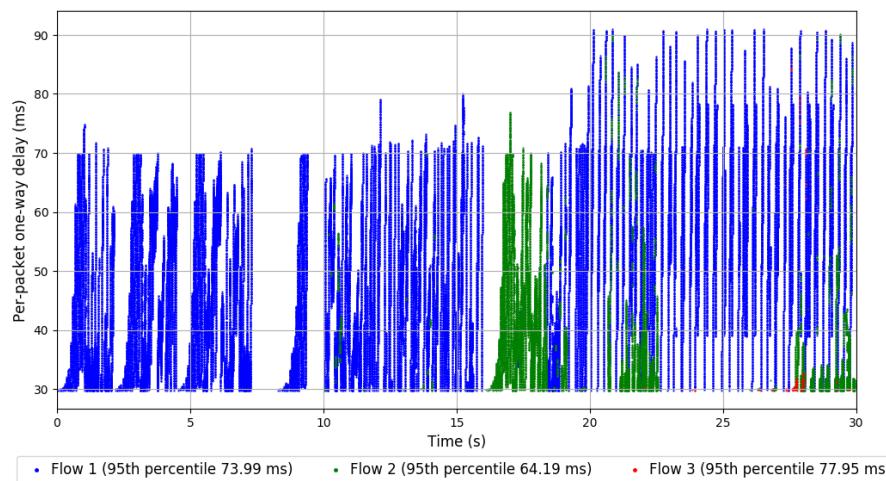
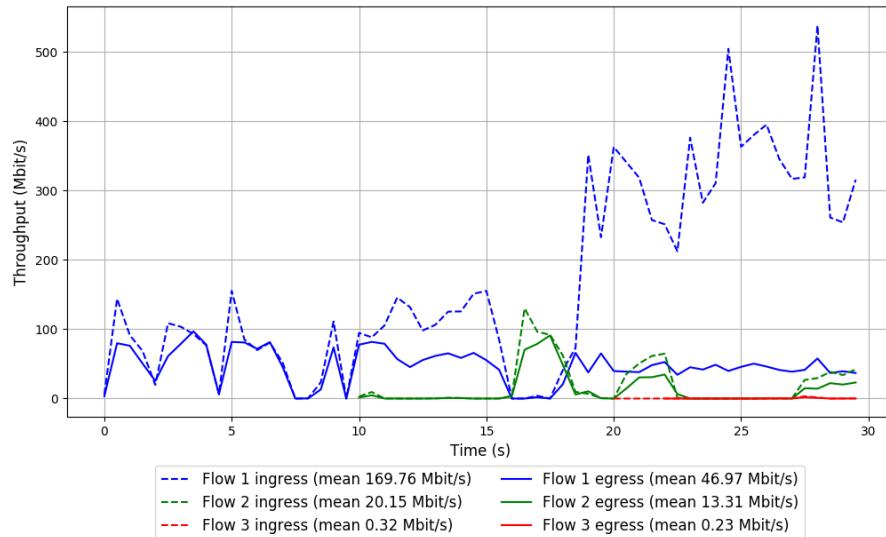


Run 3: Statistics of Verus

```
Start at: 2018-04-24 22:10:27
End at: 2018-04-24 22:10:57
Local clock offset: 0.327 ms
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2018-04-25 01:53:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 55.75 Mbit/s
95th percentile per-packet one-way delay: 72.577 ms
Loss rate: 69.48%
-- Flow 1:
Average throughput: 46.97 Mbit/s
95th percentile per-packet one-way delay: 73.986 ms
Loss rate: 72.31%
-- Flow 2:
Average throughput: 13.31 Mbit/s
95th percentile per-packet one-way delay: 64.194 ms
Loss rate: 33.94%
-- Flow 3:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 77.953 ms
Loss rate: 43.56%
```

Run 3: Report of Verus — Data Link

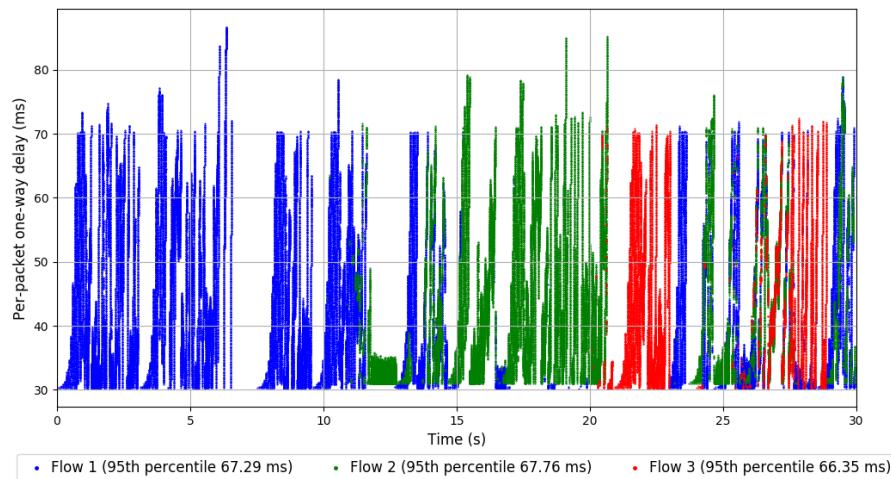
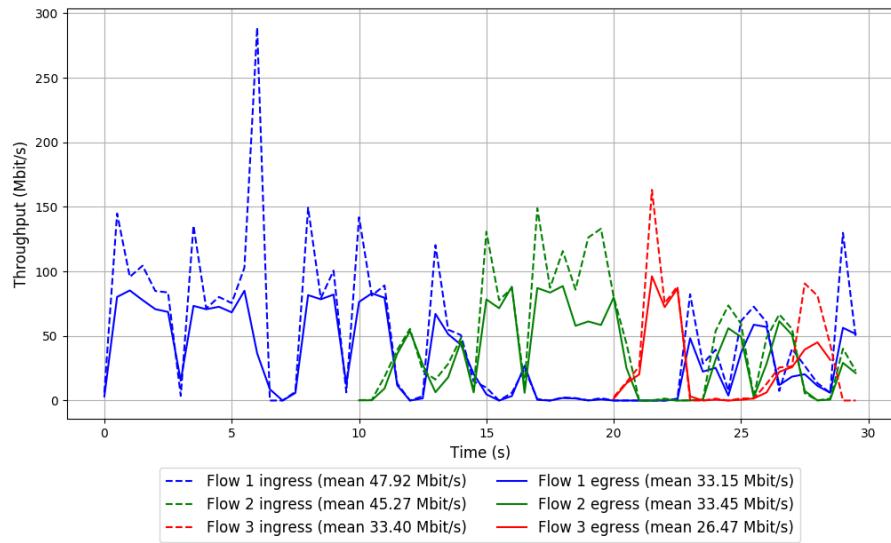


Run 4: Statistics of Verus

```
Start at: 2018-04-24 22:34:46
End at: 2018-04-24 22:35:16
Local clock offset: 0.199 ms
Remote clock offset: 0.263 ms

# Below is generated by plot.py at 2018-04-25 01:53:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.20 Mbit/s
95th percentile per-packet one-way delay: 67.278 ms
Loss rate: 28.96%
-- Flow 1:
Average throughput: 33.15 Mbit/s
95th percentile per-packet one-way delay: 67.289 ms
Loss rate: 30.83%
-- Flow 2:
Average throughput: 33.45 Mbit/s
95th percentile per-packet one-way delay: 67.764 ms
Loss rate: 26.09%
-- Flow 3:
Average throughput: 26.47 Mbit/s
95th percentile per-packet one-way delay: 66.346 ms
Loss rate: 28.72%
```

Run 4: Report of Verus — Data Link

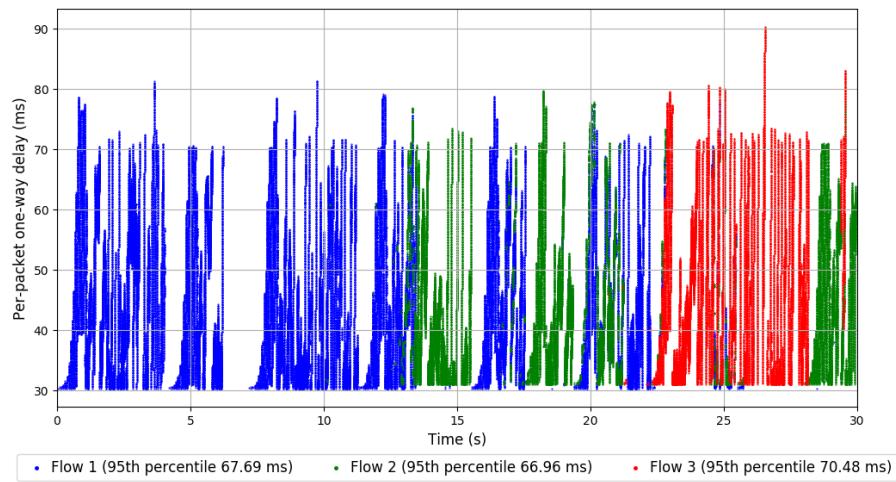
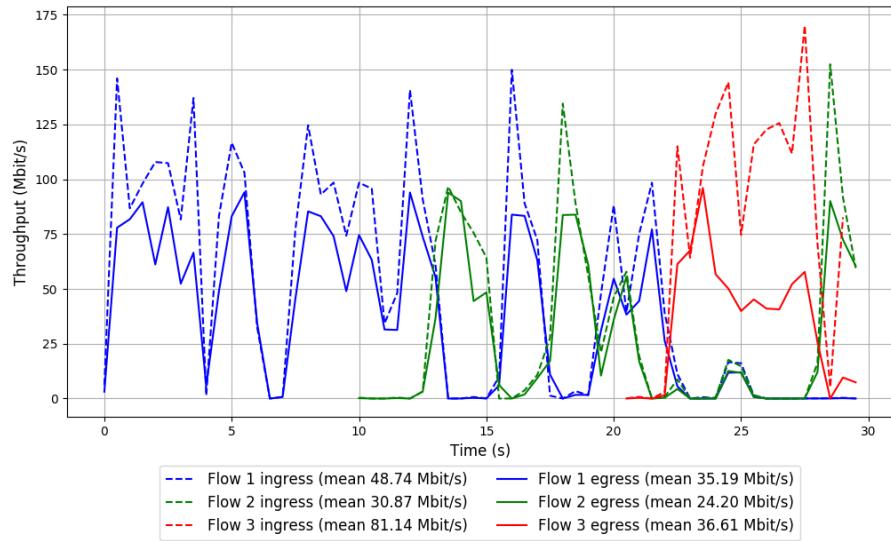


Run 5: Statistics of Verus

```
Start at: 2018-04-24 22:59:20
End at: 2018-04-24 22:59:50
Local clock offset: 0.602 ms
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2018-04-25 01:54:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.10 Mbit/s
95th percentile per-packet one-way delay: 68.143 ms
Loss rate: 33.35%
-- Flow 1:
Average throughput: 35.19 Mbit/s
95th percentile per-packet one-way delay: 67.695 ms
Loss rate: 27.75%
-- Flow 2:
Average throughput: 24.20 Mbit/s
95th percentile per-packet one-way delay: 66.957 ms
Loss rate: 21.51%
-- Flow 3:
Average throughput: 36.61 Mbit/s
95th percentile per-packet one-way delay: 70.482 ms
Loss rate: 54.71%
```

Run 5: Report of Verus — Data Link

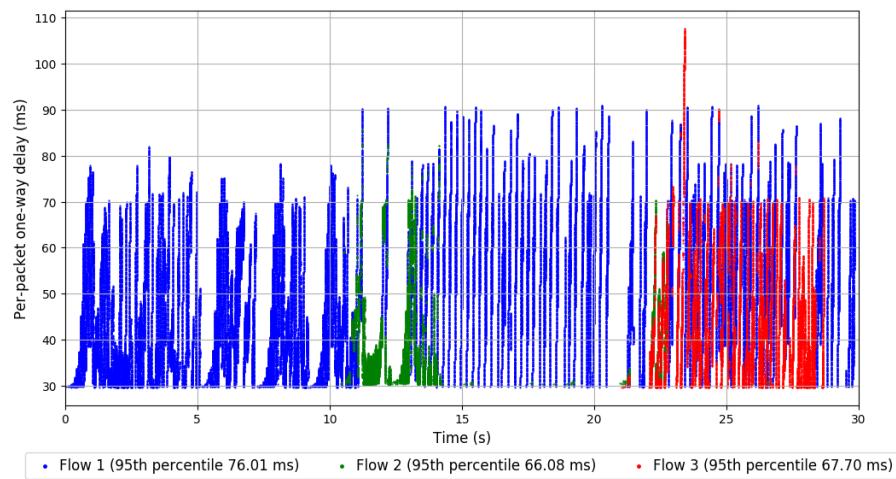
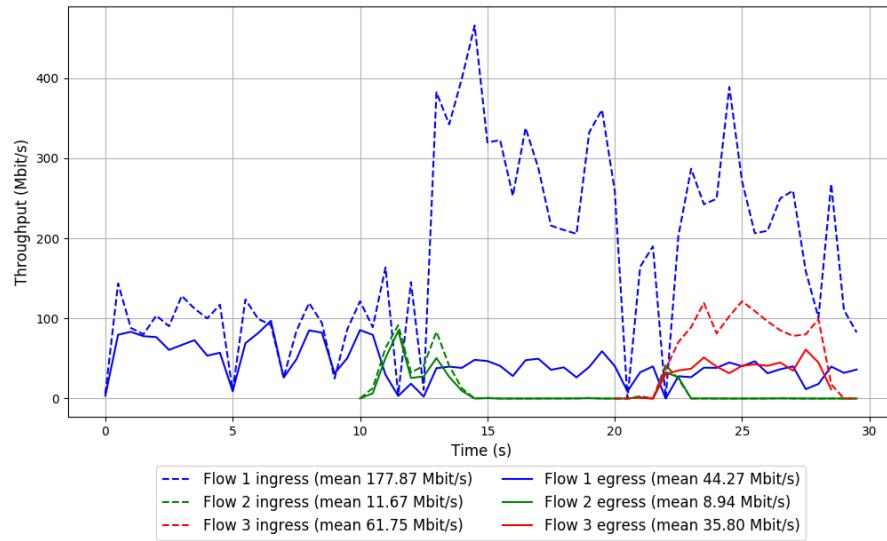


Run 6: Statistics of Verus

```
Start at: 2018-04-24 23:24:55
End at: 2018-04-24 23:25:25
Local clock offset: 0.785 ms
Remote clock offset: 0.403 ms

# Below is generated by plot.py at 2018-04-25 01:54:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.22 Mbit/s
95th percentile per-packet one-way delay: 74.400 ms
Loss rate: 71.14%
-- Flow 1:
Average throughput: 44.27 Mbit/s
95th percentile per-packet one-way delay: 76.008 ms
Loss rate: 75.09%
-- Flow 2:
Average throughput: 8.94 Mbit/s
95th percentile per-packet one-way delay: 66.081 ms
Loss rate: 23.70%
-- Flow 3:
Average throughput: 35.80 Mbit/s
95th percentile per-packet one-way delay: 67.702 ms
Loss rate: 53.92%
```

Run 6: Report of Verus — Data Link

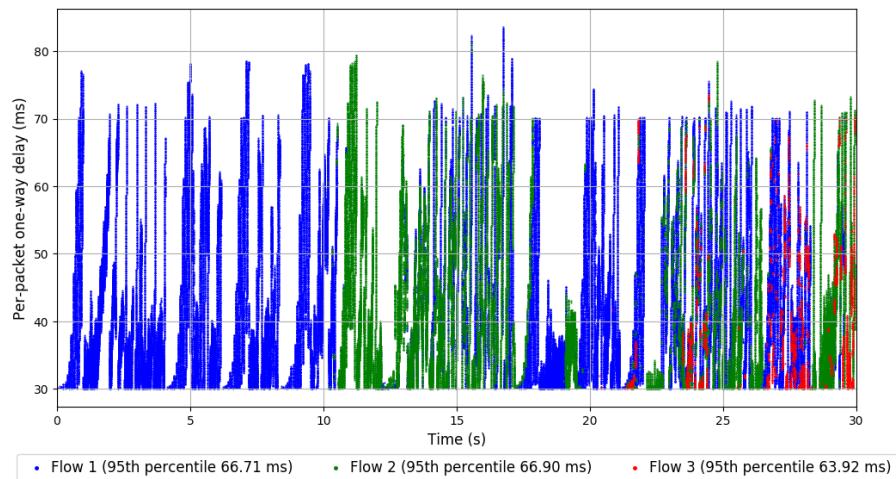
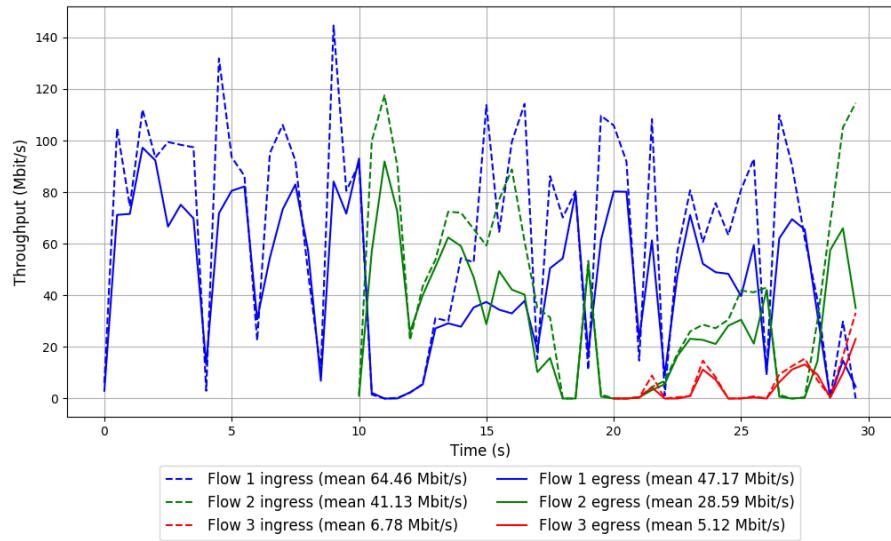


Run 7: Statistics of Verus

```
Start at: 2018-04-24 23:49:52
End at: 2018-04-24 23:50:22
Local clock offset: 0.818 ms
Remote clock offset: 0.689 ms

# Below is generated by plot.py at 2018-04-25 01:54:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.19 Mbit/s
95th percentile per-packet one-way delay: 66.712 ms
Loss rate: 27.87%
-- Flow 1:
Average throughput: 47.17 Mbit/s
95th percentile per-packet one-way delay: 66.708 ms
Loss rate: 26.86%
-- Flow 2:
Average throughput: 28.59 Mbit/s
95th percentile per-packet one-way delay: 66.897 ms
Loss rate: 30.49%
-- Flow 3:
Average throughput: 5.12 Mbit/s
95th percentile per-packet one-way delay: 63.922 ms
Loss rate: 24.36%
```

Run 7: Report of Verus — Data Link

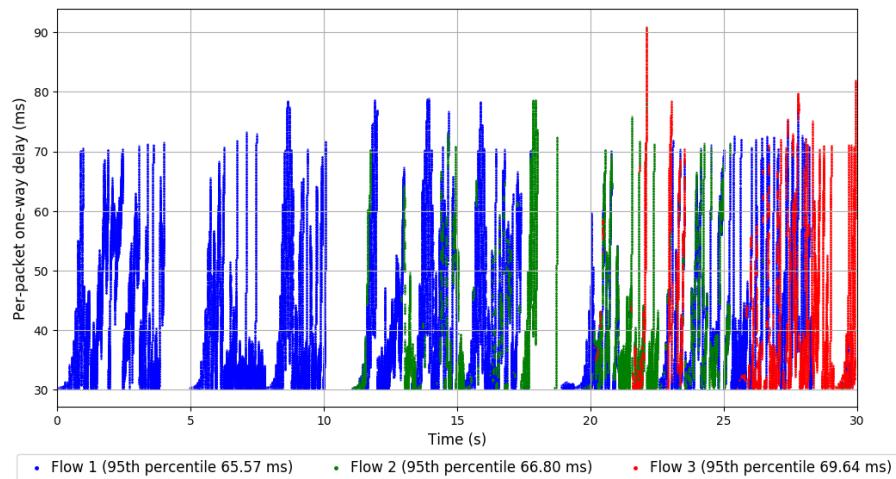
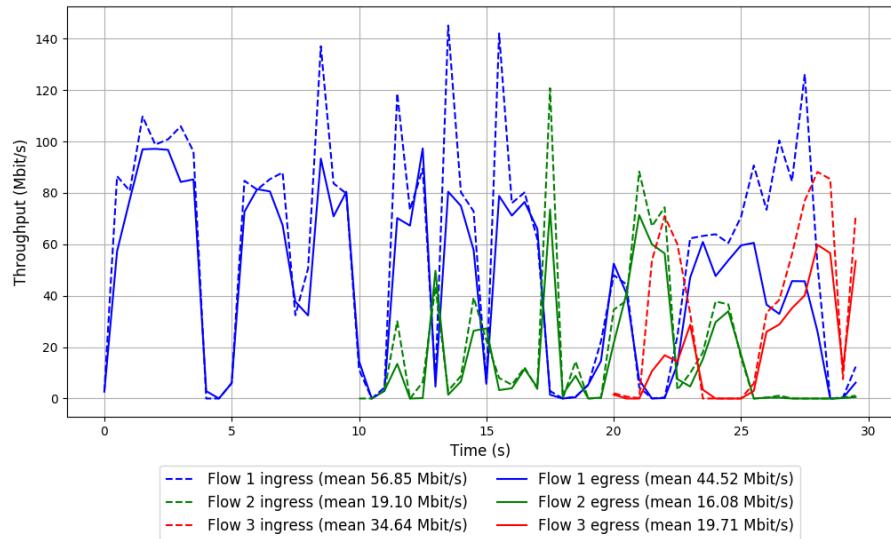


Run 8: Statistics of Verus

```
Start at: 2018-04-25 00:15:37
End at: 2018-04-25 00:16:07
Local clock offset: 1.003 ms
Remote clock offset: 0.609 ms

# Below is generated by plot.py at 2018-04-25 01:54:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.78 Mbit/s
95th percentile per-packet one-way delay: 66.283 ms
Loss rate: 24.63%
-- Flow 1:
Average throughput: 44.52 Mbit/s
95th percentile per-packet one-way delay: 65.571 ms
Loss rate: 21.86%
-- Flow 2:
Average throughput: 16.08 Mbit/s
95th percentile per-packet one-way delay: 66.797 ms
Loss rate: 20.41%
-- Flow 3:
Average throughput: 19.71 Mbit/s
95th percentile per-packet one-way delay: 69.641 ms
Loss rate: 42.97%
```

Run 8: Report of Verus — Data Link

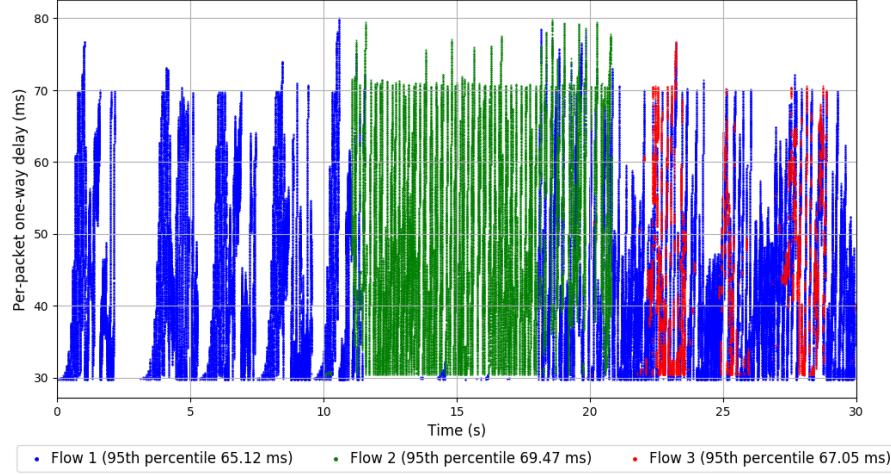
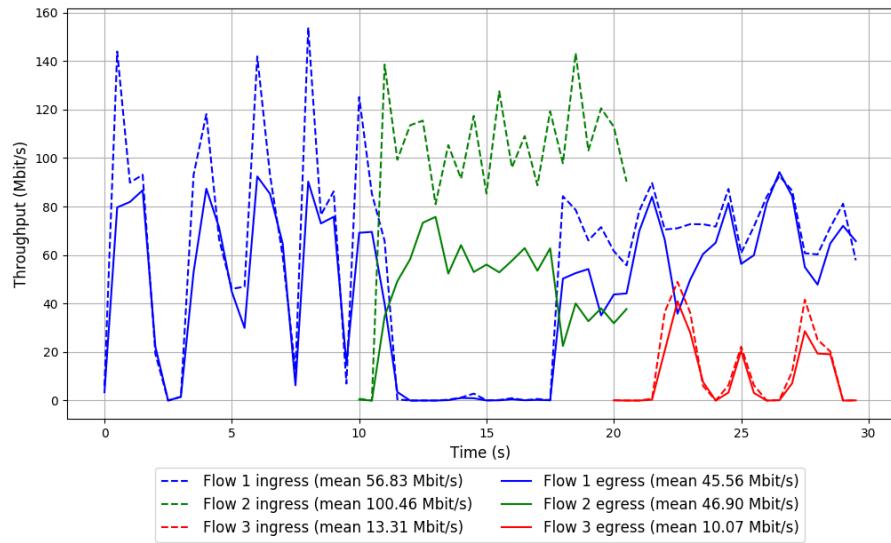


Run 9: Statistics of Verus

```
Start at: 2018-04-25 00:41:52
End at: 2018-04-25 00:42:22
Local clock offset: 1.039 ms
Remote clock offset: -0.752 ms

# Below is generated by plot.py at 2018-04-25 01:54:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.77 Mbit/s
95th percentile per-packet one-way delay: 66.919 ms
Loss rate: 32.37%
-- Flow 1:
Average throughput: 45.56 Mbit/s
95th percentile per-packet one-way delay: 65.121 ms
Loss rate: 19.79%
-- Flow 2:
Average throughput: 46.90 Mbit/s
95th percentile per-packet one-way delay: 69.473 ms
Loss rate: 53.18%
-- Flow 3:
Average throughput: 10.07 Mbit/s
95th percentile per-packet one-way delay: 67.054 ms
Loss rate: 24.25%
```

Run 9: Report of Verus — Data Link

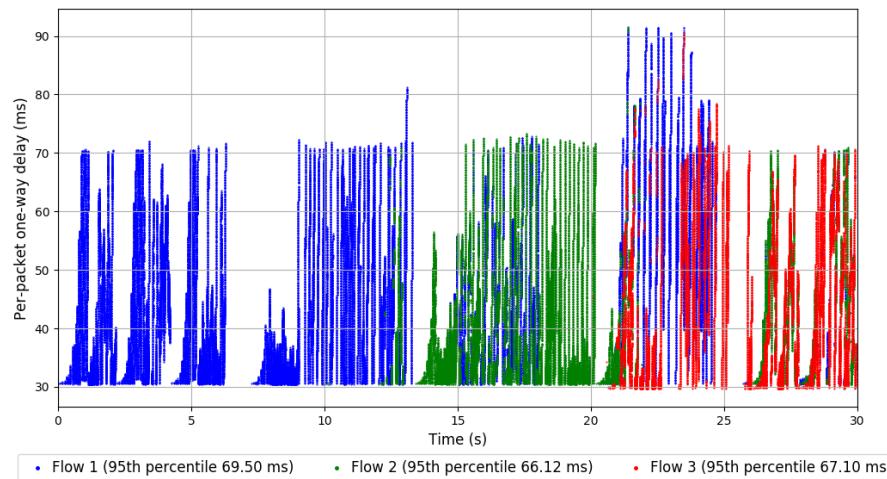
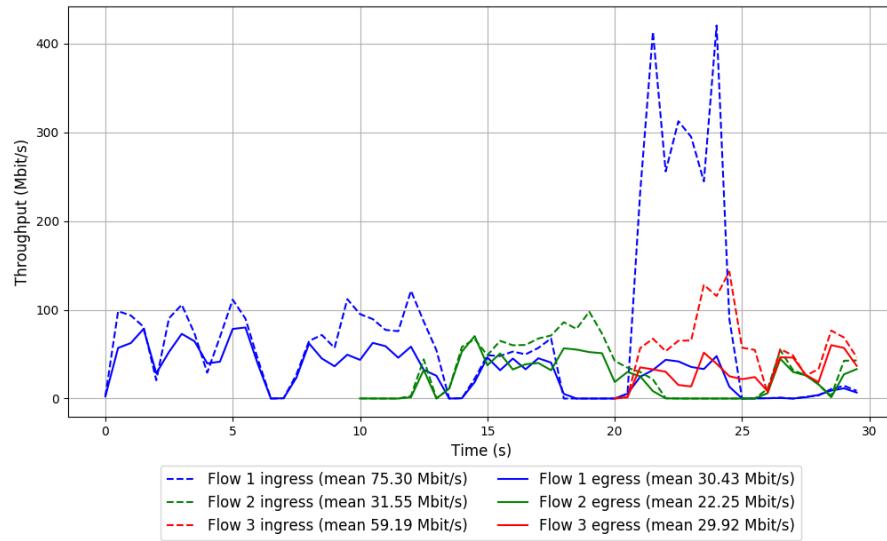


Run 10: Statistics of Verus

```
Start at: 2018-04-25 01:09:03
End at: 2018-04-25 01:09:33
Local clock offset: 1.129 ms
Remote clock offset: -4.493 ms

# Below is generated by plot.py at 2018-04-25 01:54:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 55.01 Mbit/s
95th percentile per-packet one-way delay: 68.316 ms
Loss rate: 52.43%
-- Flow 1:
Average throughput: 30.43 Mbit/s
95th percentile per-packet one-way delay: 69.497 ms
Loss rate: 59.59%
-- Flow 2:
Average throughput: 22.25 Mbit/s
95th percentile per-packet one-way delay: 66.119 ms
Loss rate: 29.41%
-- Flow 3:
Average throughput: 29.92 Mbit/s
95th percentile per-packet one-way delay: 67.101 ms
Loss rate: 49.48%
```

Run 10: Report of Verus — Data Link

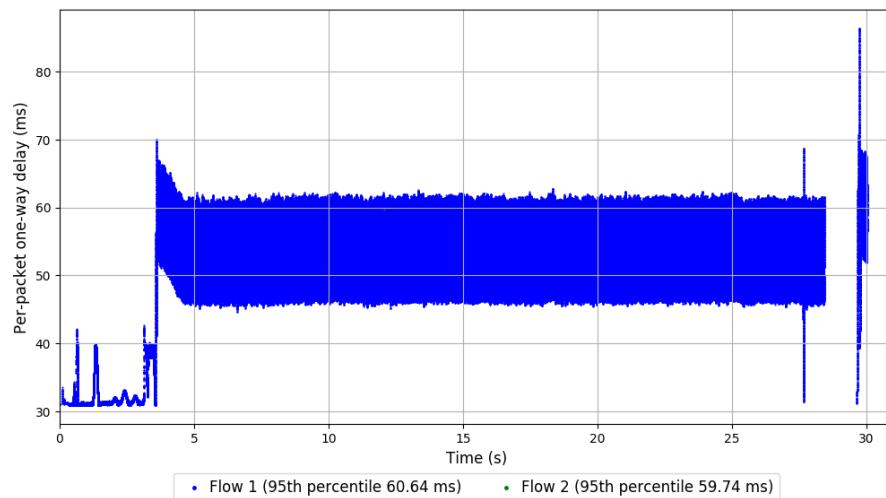
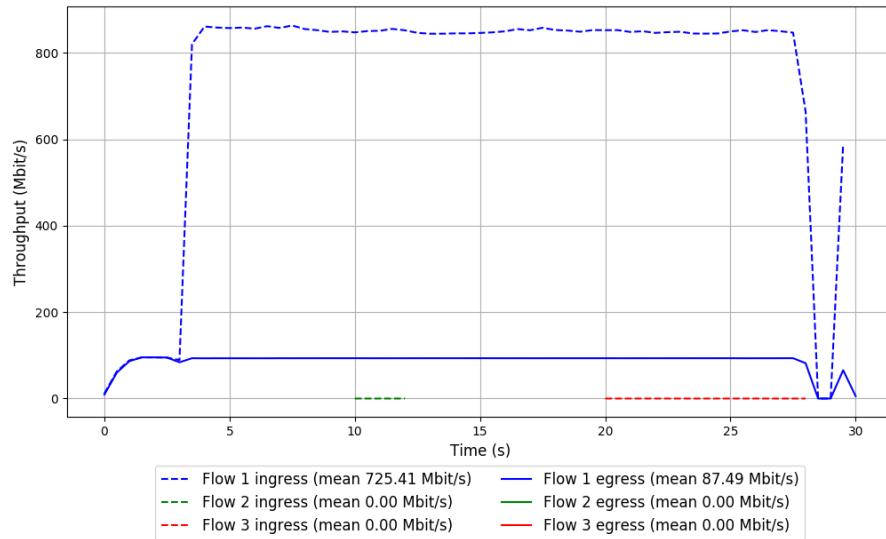


Run 1: Statistics of Copa

```
Start at: 2018-04-24 21:04:39
End at: 2018-04-24 21:05:09
Local clock offset: 1.253 ms
Remote clock offset: 0.421 ms

# Below is generated by plot.py at 2018-04-25 02:01:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.49 Mbit/s
95th percentile per-packet one-way delay: 60.636 ms
Loss rate: 87.93%
-- Flow 1:
Average throughput: 87.49 Mbit/s
95th percentile per-packet one-way delay: 60.636 ms
Loss rate: 87.93%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 59.738 ms
Loss rate: 50.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
```

Run 1: Report of Copa — Data Link

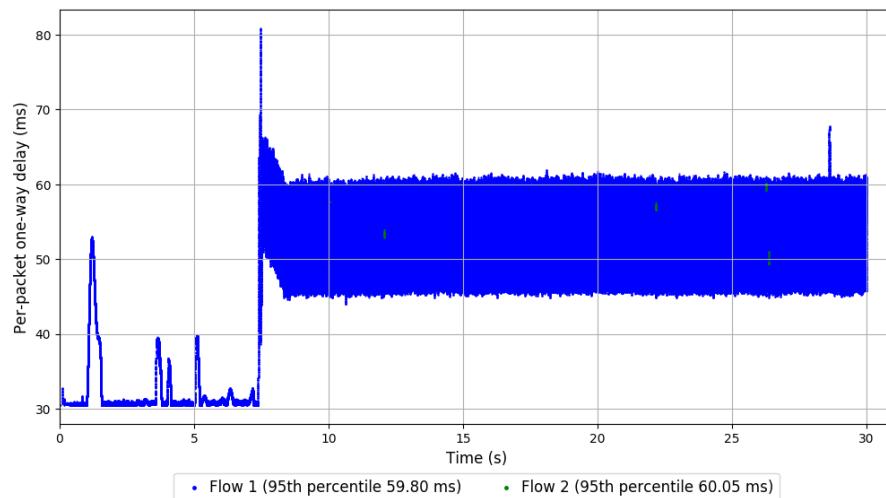
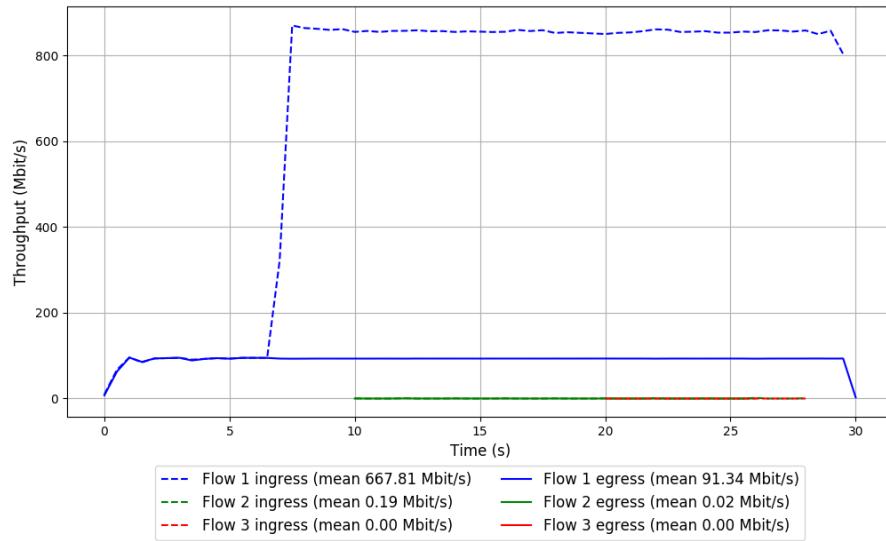


Run 2: Statistics of Copa

```
Start at: 2018-04-24 21:29:52
End at: 2018-04-24 21:30:23
Local clock offset: 1.344 ms
Remote clock offset: -0.381 ms

# Below is generated by plot.py at 2018-04-25 02:01:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.35 Mbit/s
95th percentile per-packet one-way delay: 59.800 ms
Loss rate: 86.32%
-- Flow 1:
Average throughput: 91.34 Mbit/s
95th percentile per-packet one-way delay: 59.799 ms
Loss rate: 86.32%
-- Flow 2:
Average throughput: 0.02 Mbit/s
95th percentile per-packet one-way delay: 60.047 ms
Loss rate: 92.77%
-- Flow 3:
Average throughput: 0.00 Mbit/s
```

Run 2: Report of Copa — Data Link

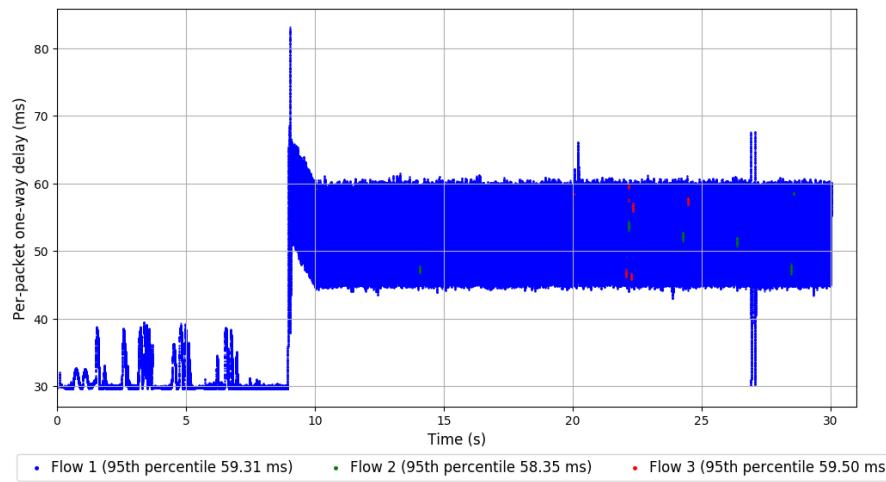
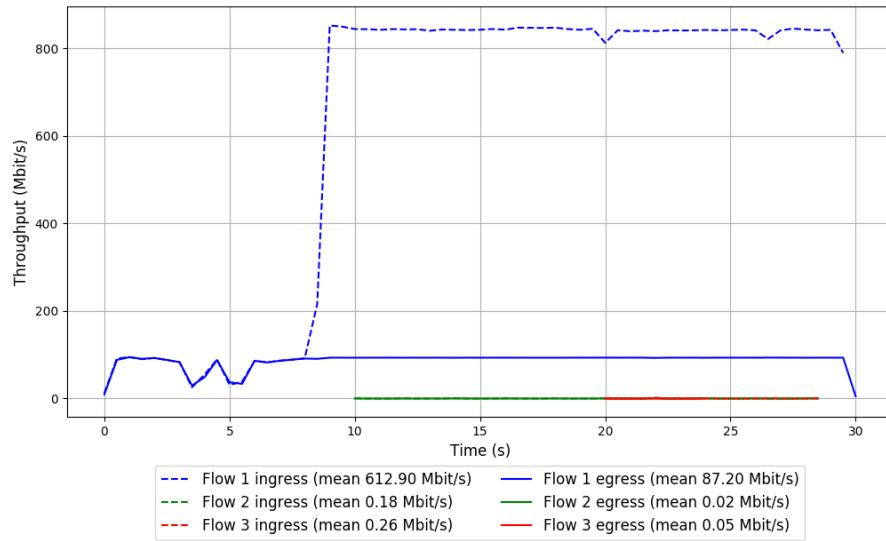


Run 3: Statistics of Copa

```
Start at: 2018-04-24 21:55:11
End at: 2018-04-24 21:55:41
Local clock offset: 0.555 ms
Remote clock offset: -0.817 ms

# Below is generated by plot.py at 2018-04-25 02:01:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.21 Mbit/s
95th percentile per-packet one-way delay: 59.306 ms
Loss rate: 85.76%
-- Flow 1:
Average throughput: 87.20 Mbit/s
95th percentile per-packet one-way delay: 59.306 ms
Loss rate: 85.76%
-- Flow 2:
Average throughput: 0.02 Mbit/s
95th percentile per-packet one-way delay: 58.351 ms
Loss rate: 91.76%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 59.498 ms
Loss rate: 89.85%
```

Run 3: Report of Copa — Data Link

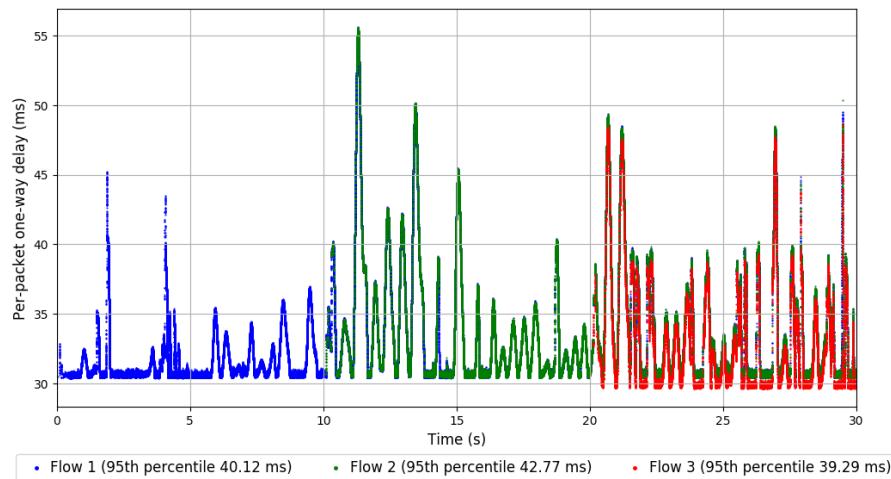
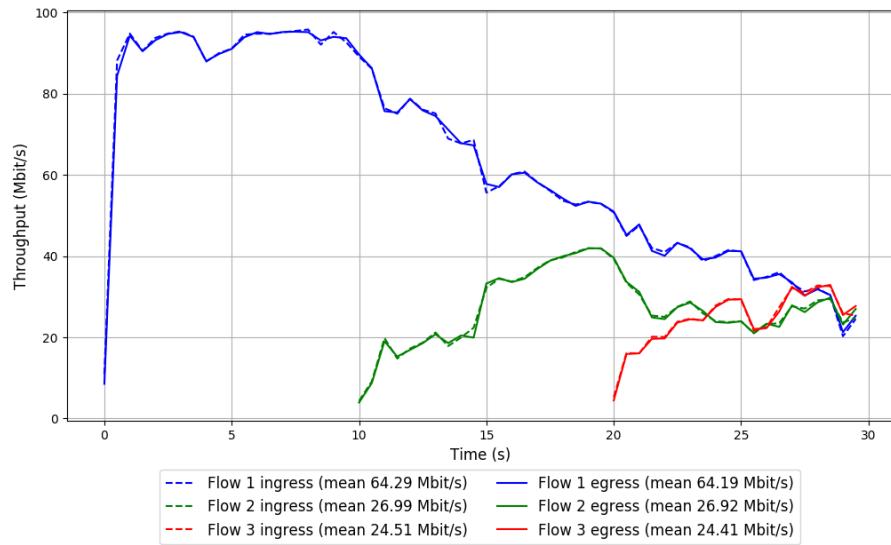


Run 4: Statistics of Copa

```
Start at: 2018-04-24 22:20:31
End at: 2018-04-24 22:21:01
Local clock offset: 0.346 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2018-04-25 02:01:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.22 Mbit/s
95th percentile per-packet one-way delay: 40.616 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 64.19 Mbit/s
95th percentile per-packet one-way delay: 40.118 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 26.92 Mbit/s
95th percentile per-packet one-way delay: 42.768 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 24.41 Mbit/s
95th percentile per-packet one-way delay: 39.290 ms
Loss rate: 0.45%
```

Run 4: Report of Copa — Data Link

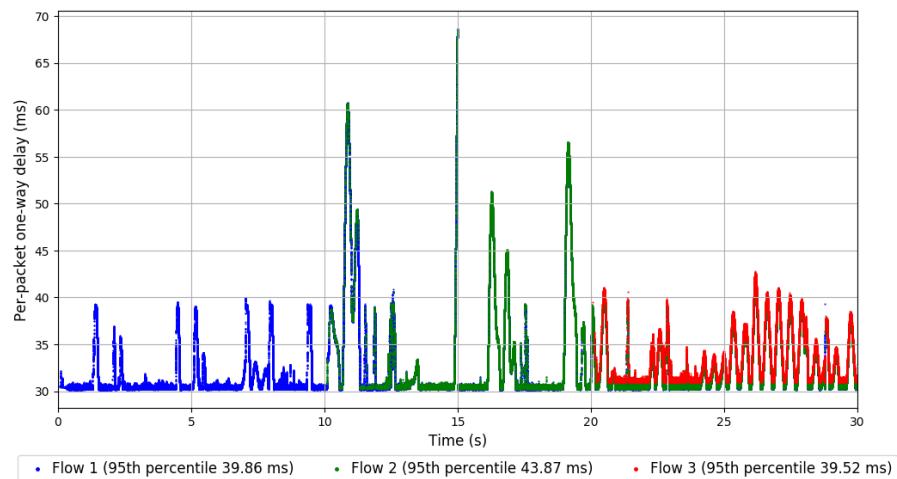
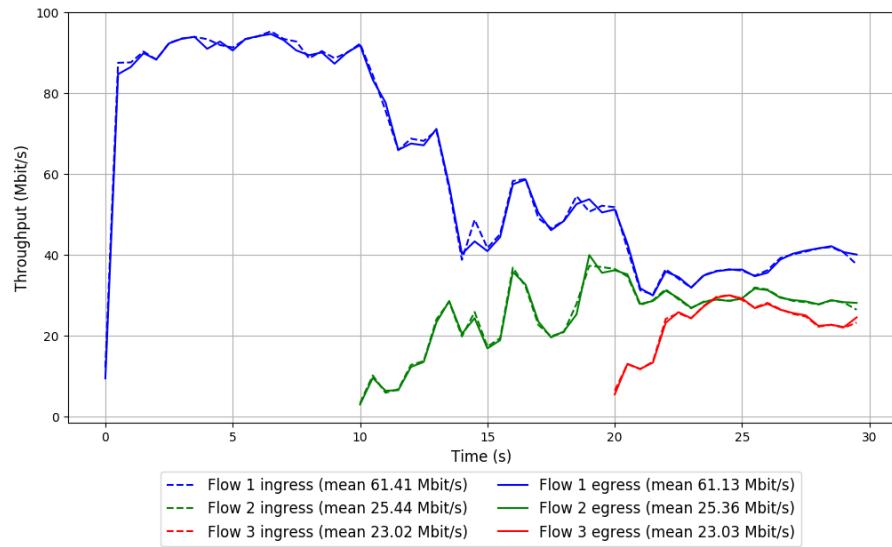


Run 5: Statistics of Copa

```
Start at: 2018-04-24 22:44:53
End at: 2018-04-24 22:45:23
Local clock offset: 0.37 ms
Remote clock offset: 0.115 ms

# Below is generated by plot.py at 2018-04-25 02:01:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.66 Mbit/s
95th percentile per-packet one-way delay: 40.219 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 61.13 Mbit/s
95th percentile per-packet one-way delay: 39.860 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 25.36 Mbit/s
95th percentile per-packet one-way delay: 43.866 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 23.03 Mbit/s
95th percentile per-packet one-way delay: 39.520 ms
Loss rate: 0.02%
```

Run 5: Report of Copa — Data Link

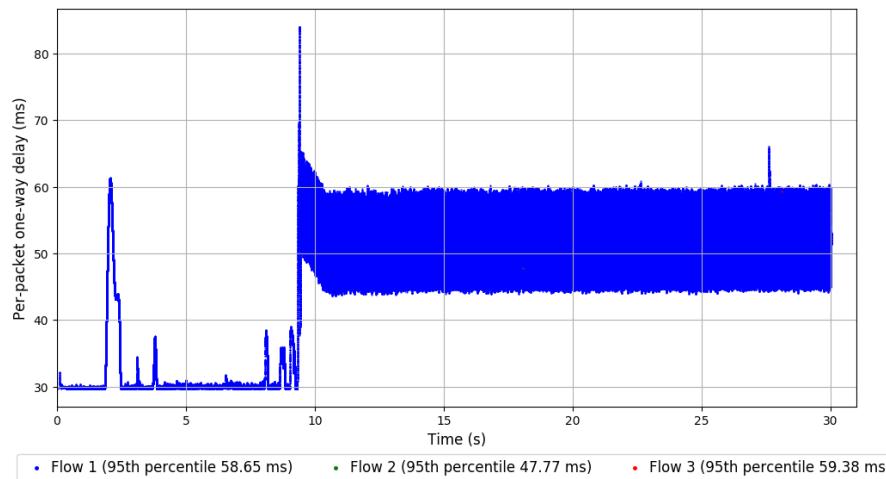
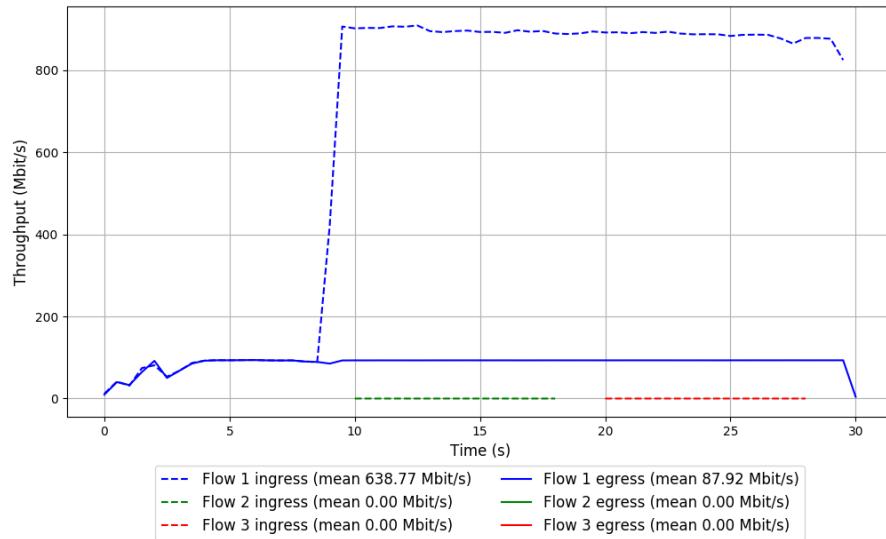


Run 6: Statistics of Copa

```
Start at: 2018-04-24 23:09:36
End at: 2018-04-24 23:10:06
Local clock offset: 0.737 ms
Remote clock offset: 0.037 ms

# Below is generated by plot.py at 2018-04-25 02:01:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.92 Mbit/s
95th percentile per-packet one-way delay: 58.645 ms
Loss rate: 86.23%
-- Flow 1:
Average throughput: 87.92 Mbit/s
95th percentile per-packet one-way delay: 58.645 ms
Loss rate: 86.23%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 47.768 ms
Loss rate: 80.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 59.382 ms
Loss rate: 80.00%
```

Run 6: Report of Copa — Data Link

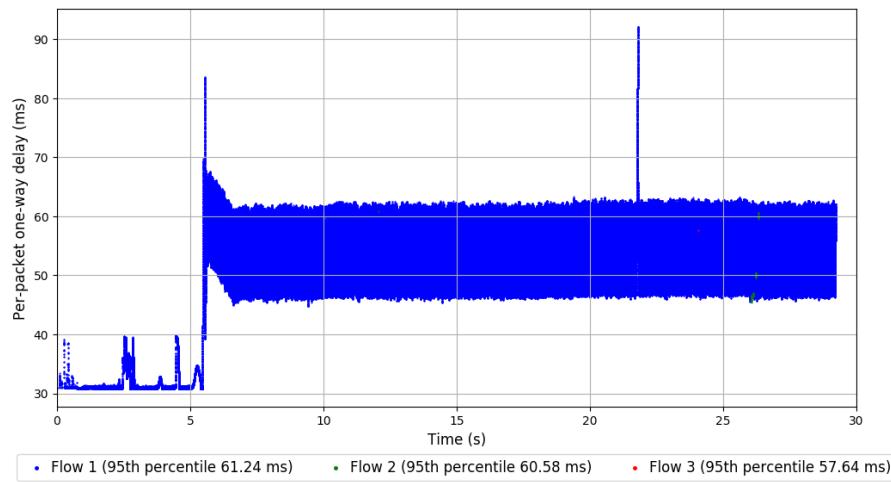
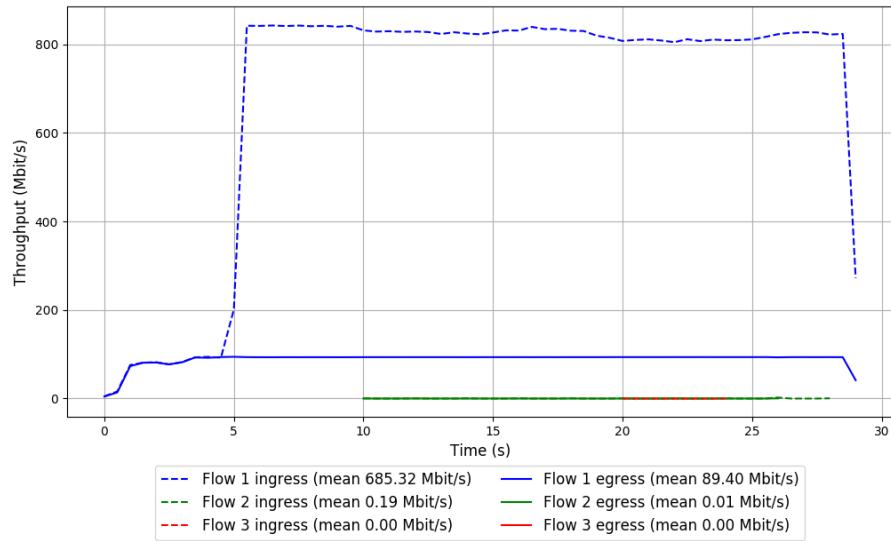


Run 7: Statistics of Copa

```
Start at: 2018-04-24 23:35:05
End at: 2018-04-24 23:35:35
Local clock offset: 0.787 ms
Remote clock offset: 0.974 ms

# Below is generated by plot.py at 2018-04-25 02:01:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.41 Mbit/s
95th percentile per-packet one-way delay: 61.245 ms
Loss rate: 86.95%
-- Flow 1:
Average throughput: 89.40 Mbit/s
95th percentile per-packet one-way delay: 61.245 ms
Loss rate: 86.94%
-- Flow 2:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 60.577 ms
Loss rate: 94.22%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 57.638 ms
Loss rate: 66.67%
```

Run 7: Report of Copa — Data Link

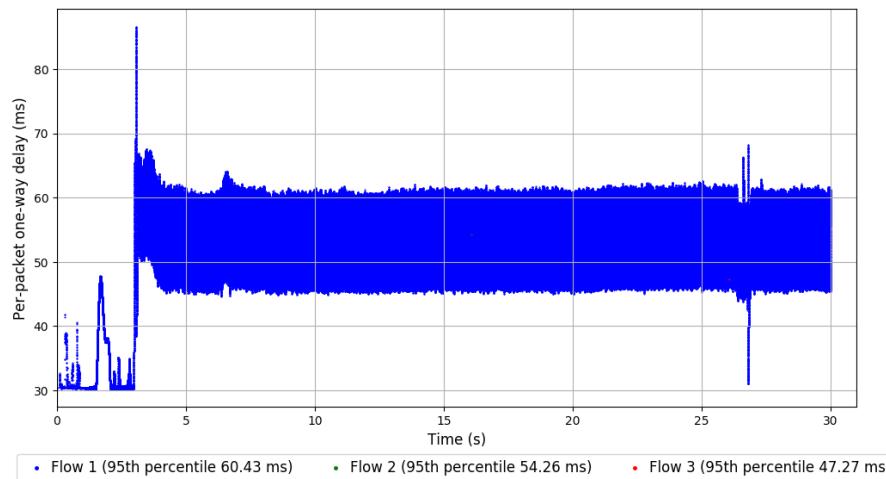
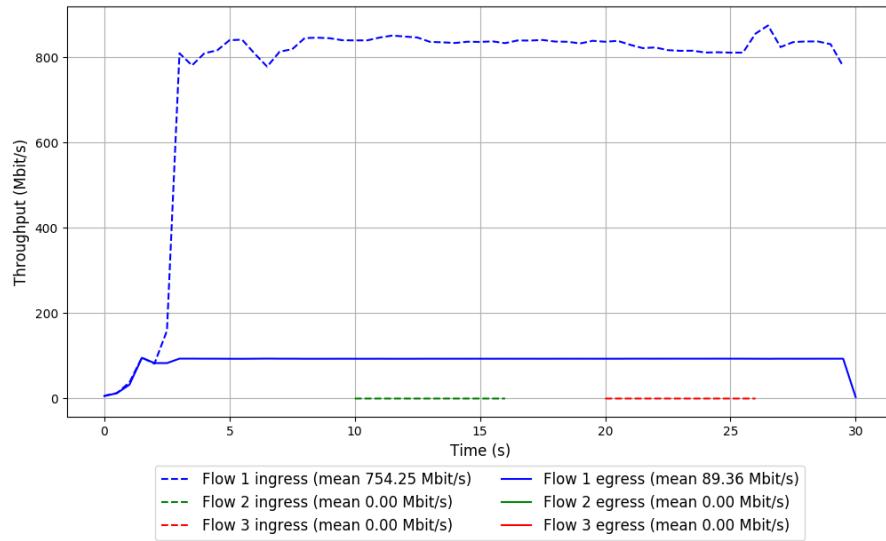


Run 8: Statistics of Copa

```
Start at: 2018-04-25 00:00:01
End at: 2018-04-25 00:00:31
Local clock offset: 0.762 ms
Remote clock offset: 0.81 ms

# Below is generated by plot.py at 2018-04-25 02:03:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.36 Mbit/s
95th percentile per-packet one-way delay: 60.427 ms
Loss rate: 88.15%
-- Flow 1:
Average throughput: 89.36 Mbit/s
95th percentile per-packet one-way delay: 60.427 ms
Loss rate: 88.15%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 54.258 ms
Loss rate: 75.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 47.265 ms
Loss rate: 75.00%
```

Run 8: Report of Copa — Data Link

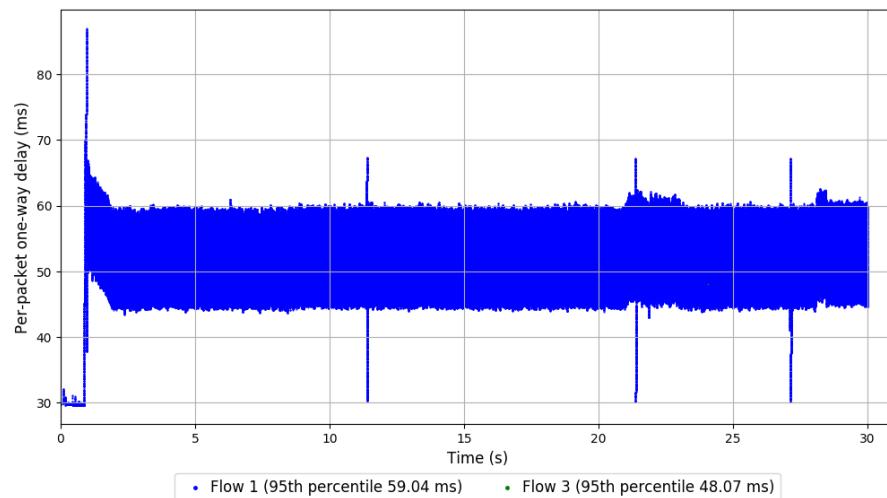
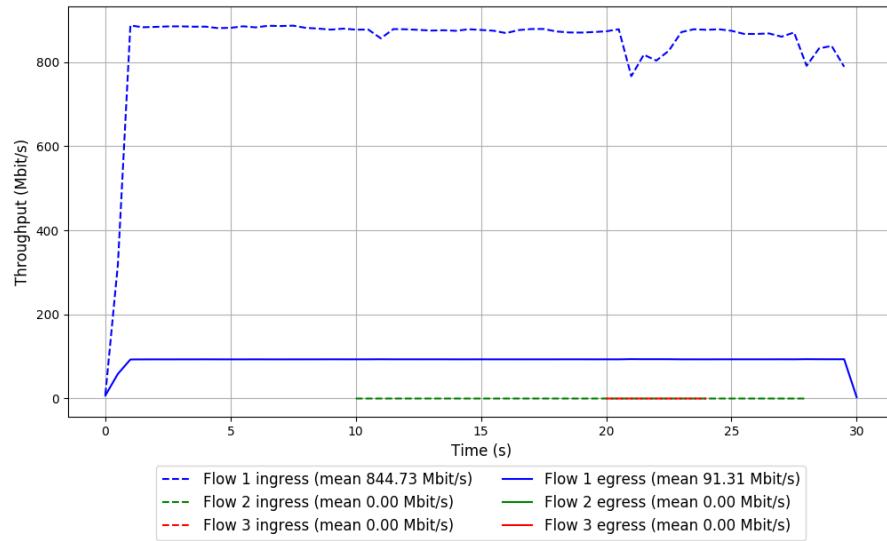


Run 9: Statistics of Copa

```
Start at: 2018-04-25 00:25:44
End at: 2018-04-25 00:26:14
Local clock offset: 1.16 ms
Remote clock offset: -0.374 ms

# Below is generated by plot.py at 2018-04-25 02:06:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.31 Mbit/s
95th percentile per-packet one-way delay: 59.044 ms
Loss rate: 89.18%
-- Flow 1:
Average throughput: 91.31 Mbit/s
95th percentile per-packet one-way delay: 59.044 ms
Loss rate: 89.18%
-- Flow 2:
Average throughput: 0.00 Mbit/s
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 48.070 ms
Loss rate: 66.67%
```

Run 9: Report of Copa — Data Link

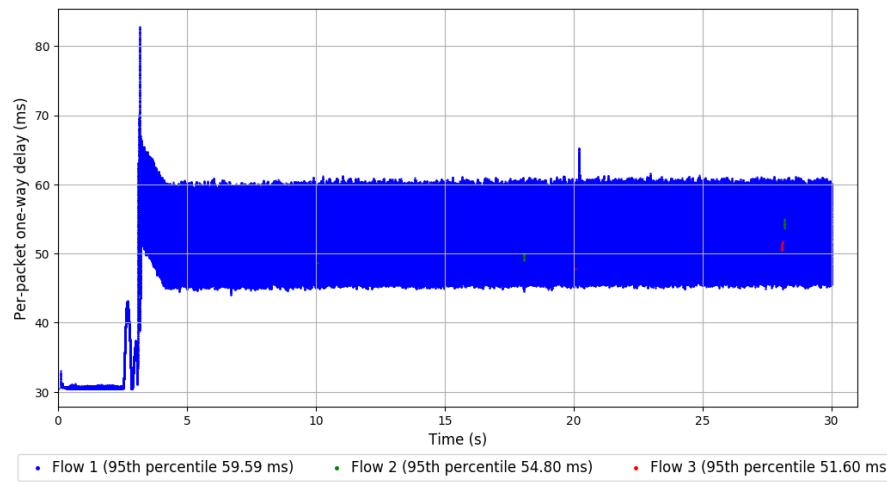
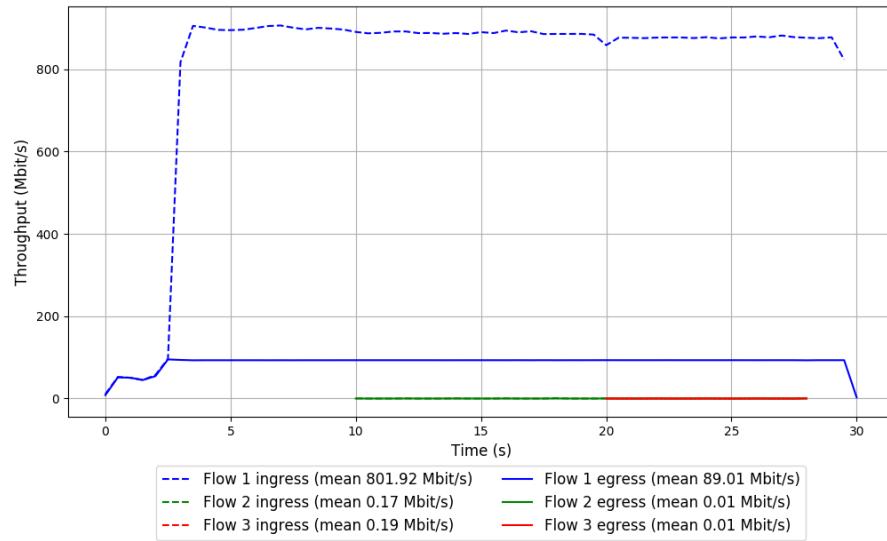


Run 10: Statistics of Copa

```
Start at: 2018-04-25 00:52:40
End at: 2018-04-25 00:53:10
Local clock offset: 1.091 ms
Remote clock offset: -2.651 ms

# Below is generated by plot.py at 2018-04-25 02:06:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.02 Mbit/s
95th percentile per-packet one-way delay: 59.592 ms
Loss rate: 88.90%
-- Flow 1:
Average throughput: 89.01 Mbit/s
95th percentile per-packet one-way delay: 59.592 ms
Loss rate: 88.89%
-- Flow 2:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 54.805 ms
Loss rate: 95.20%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 51.600 ms
Loss rate: 97.05%
```

Run 10: Report of Copa — Data Link

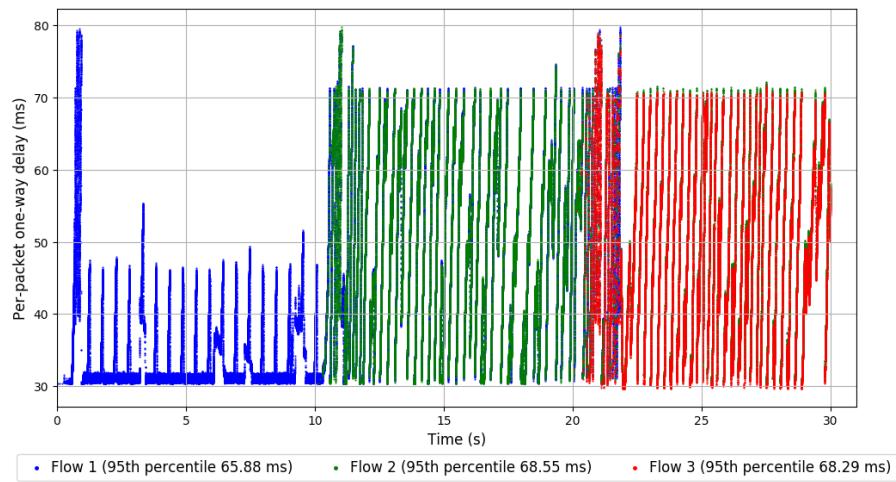
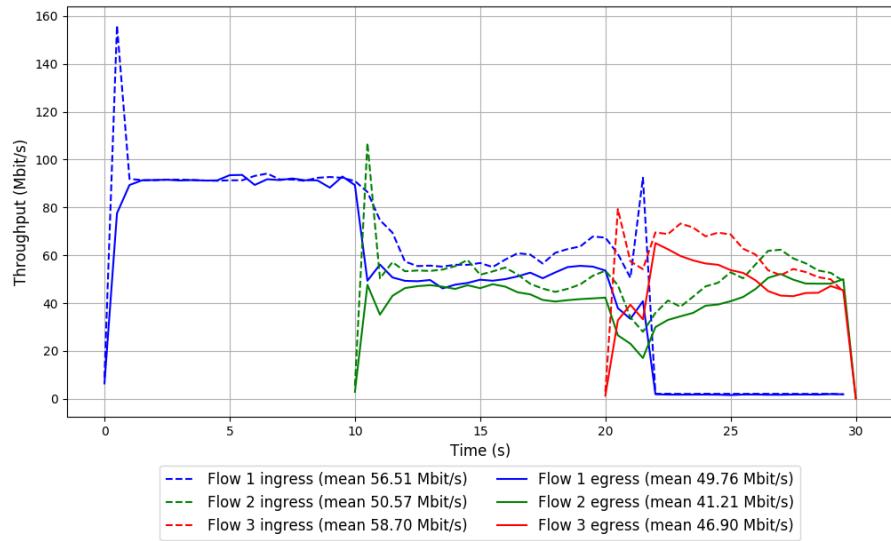


```
Run 1: Statistics of FillP

Start at: 2018-04-24 21:10:42
End at: 2018-04-24 21:11:12
Local clock offset: 1.255 ms
Remote clock offset: -0.162 ms

# Below is generated by plot.py at 2018-04-25 02:06:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.74 Mbit/s
95th percentile per-packet one-way delay: 67.600 ms
Loss rate: 15.32%
-- Flow 1:
Average throughput: 49.76 Mbit/s
95th percentile per-packet one-way delay: 65.879 ms
Loss rate: 11.88%
-- Flow 2:
Average throughput: 41.21 Mbit/s
95th percentile per-packet one-way delay: 68.545 ms
Loss rate: 18.45%
-- Flow 3:
Average throughput: 46.90 Mbit/s
95th percentile per-packet one-way delay: 68.286 ms
Loss rate: 19.90%
```

Run 1: Report of FillP — Data Link

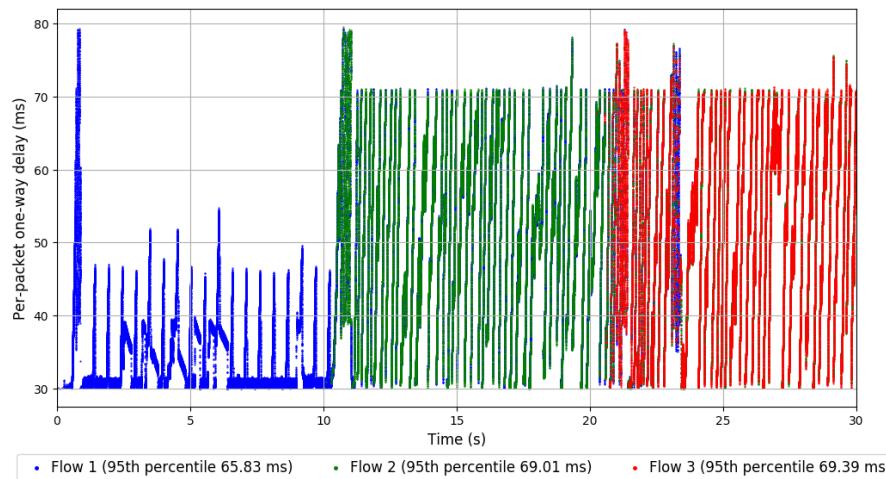
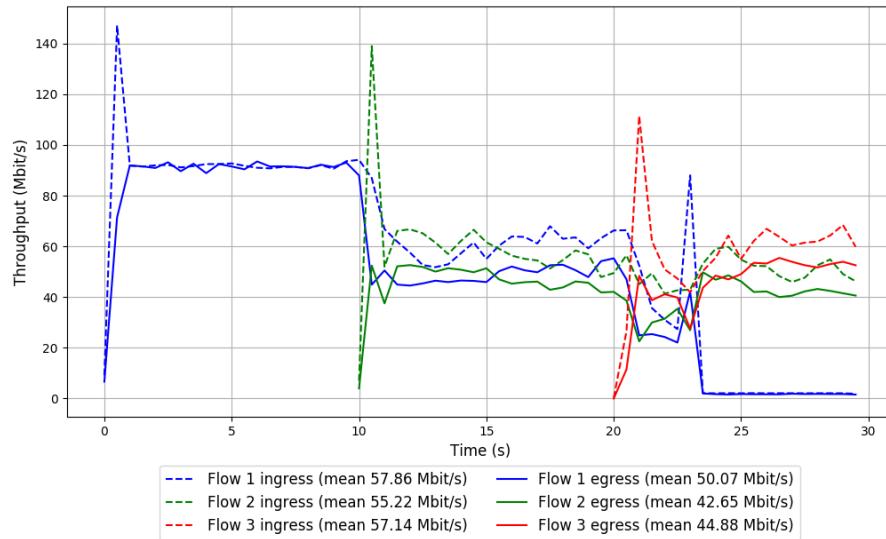


Run 2: Statistics of FillP

```
Start at: 2018-04-24 21:35:49
End at: 2018-04-24 21:36:19
Local clock offset: 1.185 ms
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2018-04-25 02:06:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.06 Mbit/s
95th percentile per-packet one-way delay: 68.093 ms
Loss rate: 18.01%
-- Flow 1:
Average throughput: 50.07 Mbit/s
95th percentile per-packet one-way delay: 65.831 ms
Loss rate: 13.44%
-- Flow 2:
Average throughput: 42.65 Mbit/s
95th percentile per-packet one-way delay: 69.011 ms
Loss rate: 22.71%
-- Flow 3:
Average throughput: 44.88 Mbit/s
95th percentile per-packet one-way delay: 69.390 ms
Loss rate: 22.87%
```

Run 2: Report of FillP — Data Link

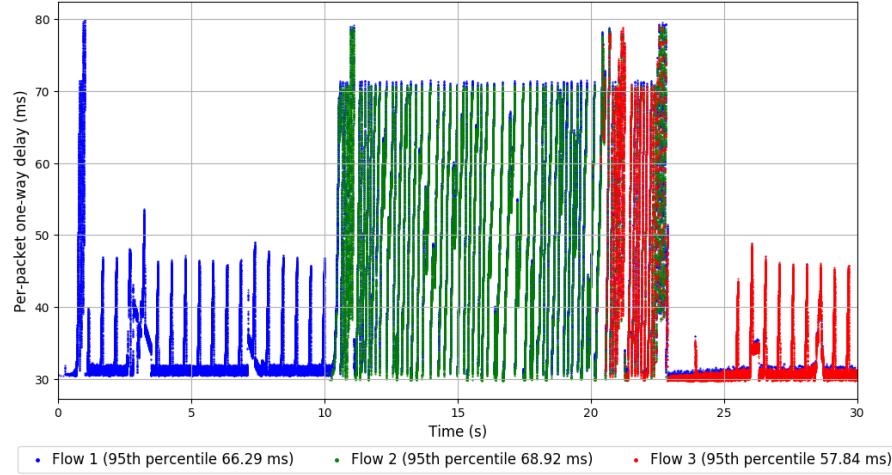
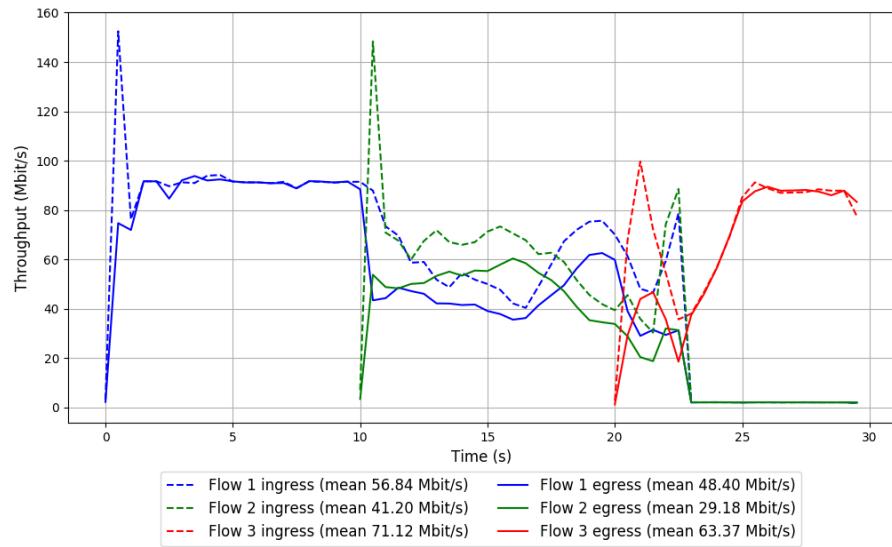


Run 3: Statistics of FillP

```
Start at: 2018-04-24 22:01:07
End at: 2018-04-24 22:01:37
Local clock offset: 0.467 ms
Remote clock offset: -0.298 ms

# Below is generated by plot.py at 2018-04-25 02:06:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.75 Mbit/s
95th percentile per-packet one-way delay: 66.829 ms
Loss rate: 17.68%
-- Flow 1:
Average throughput: 48.40 Mbit/s
95th percentile per-packet one-way delay: 66.287 ms
Loss rate: 14.84%
-- Flow 2:
Average throughput: 29.18 Mbit/s
95th percentile per-packet one-way delay: 68.915 ms
Loss rate: 29.19%
-- Flow 3:
Average throughput: 63.37 Mbit/s
95th percentile per-packet one-way delay: 57.838 ms
Loss rate: 11.16%
```

Run 3: Report of FillP — Data Link

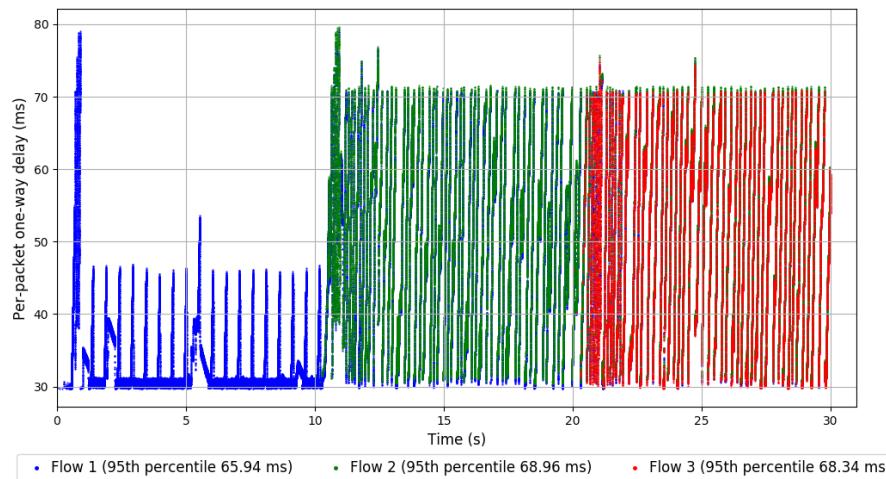
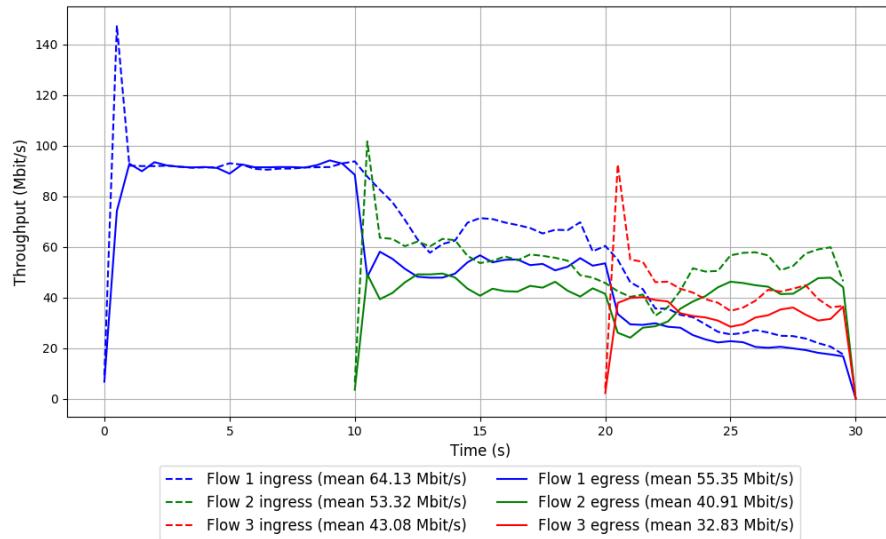


Run 4: Statistics of FillP

```
Start at: 2018-04-24 22:26:08
End at: 2018-04-24 22:26:38
Local clock offset: 0.314 ms
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2018-04-25 02:06:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.48 Mbit/s
95th percentile per-packet one-way delay: 67.683 ms
Loss rate: 17.87%
-- Flow 1:
Average throughput: 55.35 Mbit/s
95th percentile per-packet one-way delay: 65.942 ms
Loss rate: 13.62%
-- Flow 2:
Average throughput: 40.91 Mbit/s
95th percentile per-packet one-way delay: 68.962 ms
Loss rate: 23.19%
-- Flow 3:
Average throughput: 32.83 Mbit/s
95th percentile per-packet one-way delay: 68.339 ms
Loss rate: 23.72%
```

Run 4: Report of FillP — Data Link

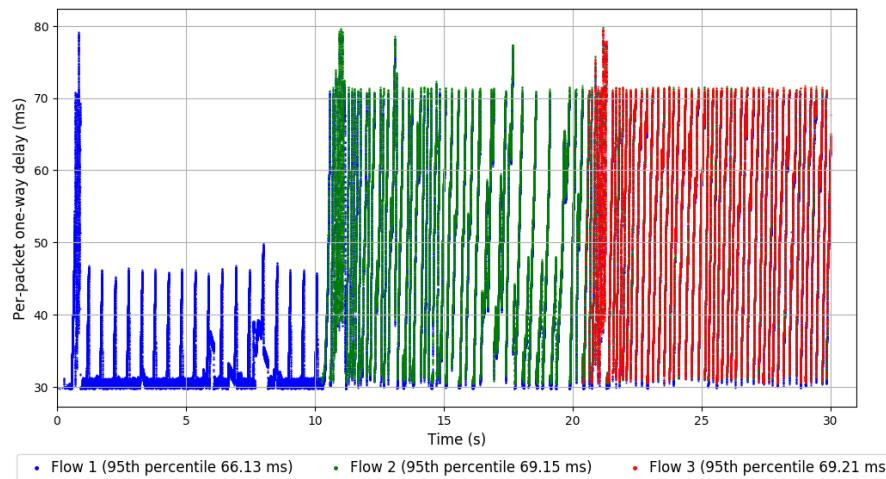
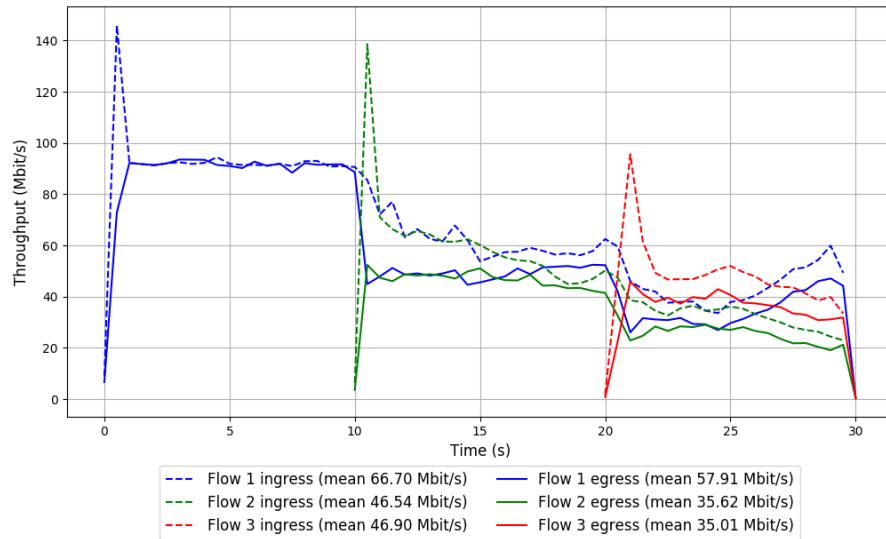


Run 5: Statistics of FillP

```
Start at: 2018-04-24 22:50:37
End at: 2018-04-24 22:51:07
Local clock offset: 0.575 ms
Remote clock offset: -0.347 ms

# Below is generated by plot.py at 2018-04-25 02:06:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.22 Mbit/s
95th percentile per-packet one-way delay: 67.853 ms
Loss rate: 17.57%
-- Flow 1:
Average throughput: 57.91 Mbit/s
95th percentile per-packet one-way delay: 66.129 ms
Loss rate: 13.07%
-- Flow 2:
Average throughput: 35.62 Mbit/s
95th percentile per-packet one-way delay: 69.148 ms
Loss rate: 23.37%
-- Flow 3:
Average throughput: 35.01 Mbit/s
95th percentile per-packet one-way delay: 69.211 ms
Loss rate: 25.33%
```

Run 5: Report of FillP — Data Link

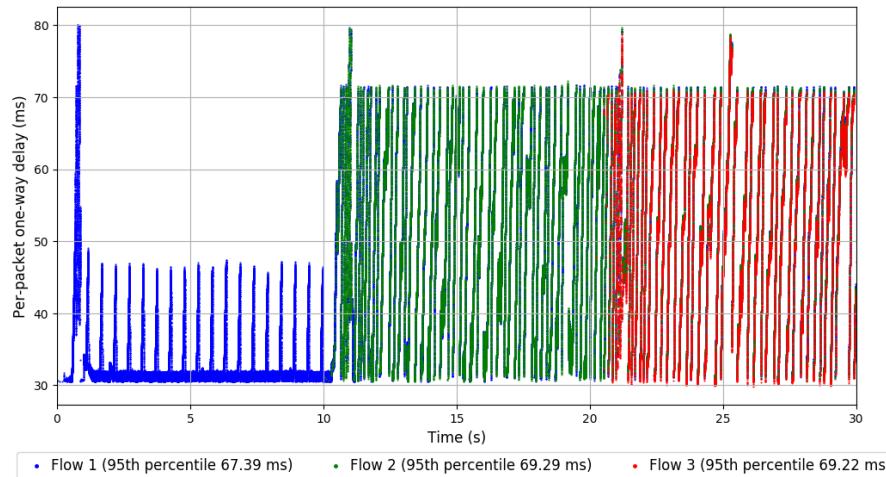
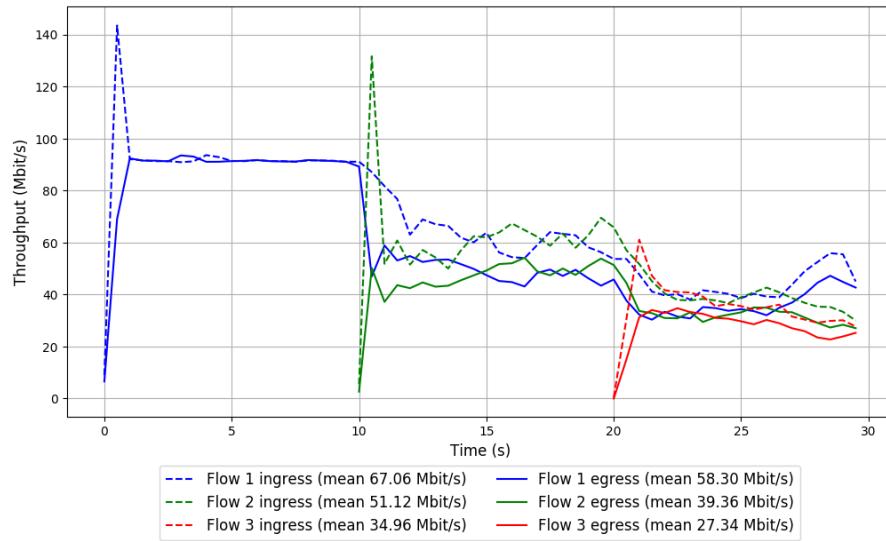


Run 6: Statistics of FillP

```
Start at: 2018-04-24 23:15:48
End at: 2018-04-24 23:16:18
Local clock offset: 0.639 ms
Remote clock offset: 0.319 ms

# Below is generated by plot.py at 2018-04-25 02:06:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.54 Mbit/s
95th percentile per-packet one-way delay: 68.407 ms
Loss rate: 16.94%
-- Flow 1:
Average throughput: 58.30 Mbit/s
95th percentile per-packet one-way delay: 67.391 ms
Loss rate: 13.03%
-- Flow 2:
Average throughput: 39.36 Mbit/s
95th percentile per-packet one-way delay: 69.286 ms
Loss rate: 22.95%
-- Flow 3:
Average throughput: 27.34 Mbit/s
95th percentile per-packet one-way delay: 69.222 ms
Loss rate: 21.94%
```

Run 6: Report of FillP — Data Link

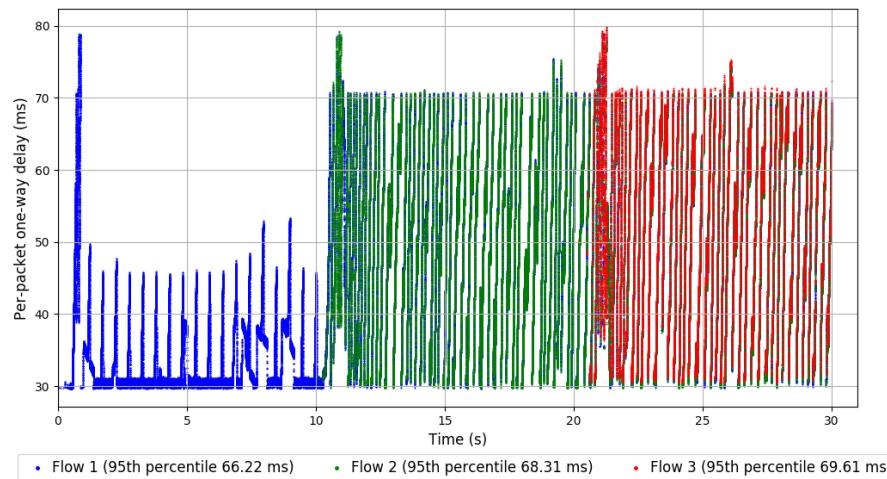
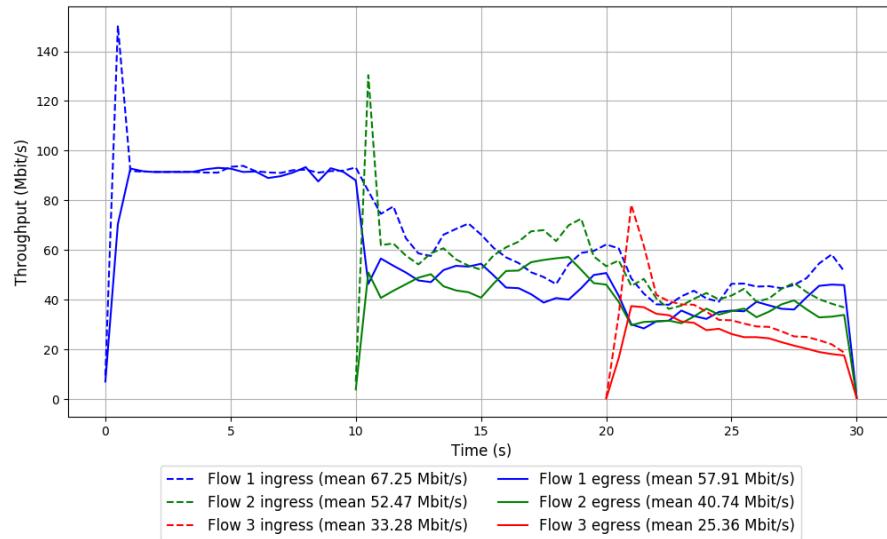


Run 7: Statistics of FillP

```
Start at: 2018-04-24 23:41:06
End at: 2018-04-24 23:41:36
Local clock offset: 0.757 ms
Remote clock offset: 0.423 ms

# Below is generated by plot.py at 2018-04-25 02:06:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.34 Mbit/s
95th percentile per-packet one-way delay: 67.525 ms
Loss rate: 17.45%
-- Flow 1:
Average throughput: 57.91 Mbit/s
95th percentile per-packet one-way delay: 66.215 ms
Loss rate: 13.77%
-- Flow 2:
Average throughput: 40.74 Mbit/s
95th percentile per-packet one-way delay: 68.314 ms
Loss rate: 22.21%
-- Flow 3:
Average throughput: 25.36 Mbit/s
95th percentile per-packet one-way delay: 69.611 ms
Loss rate: 24.80%
```

Run 7: Report of FillP — Data Link

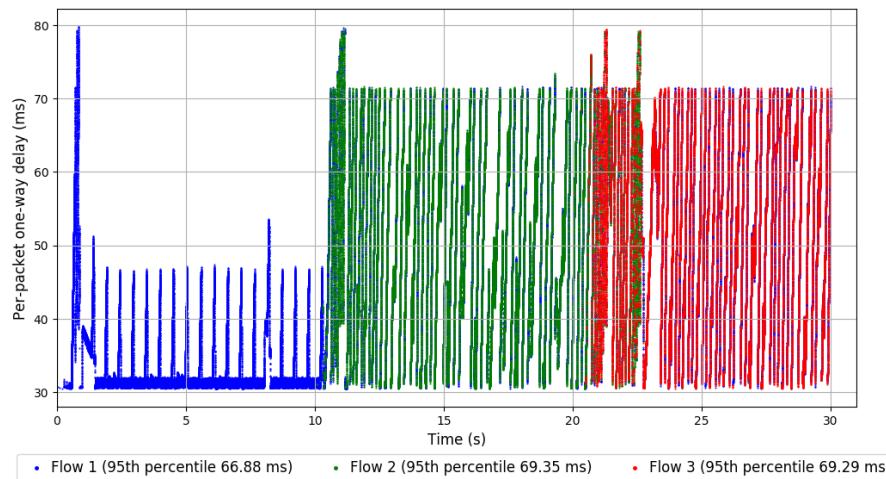
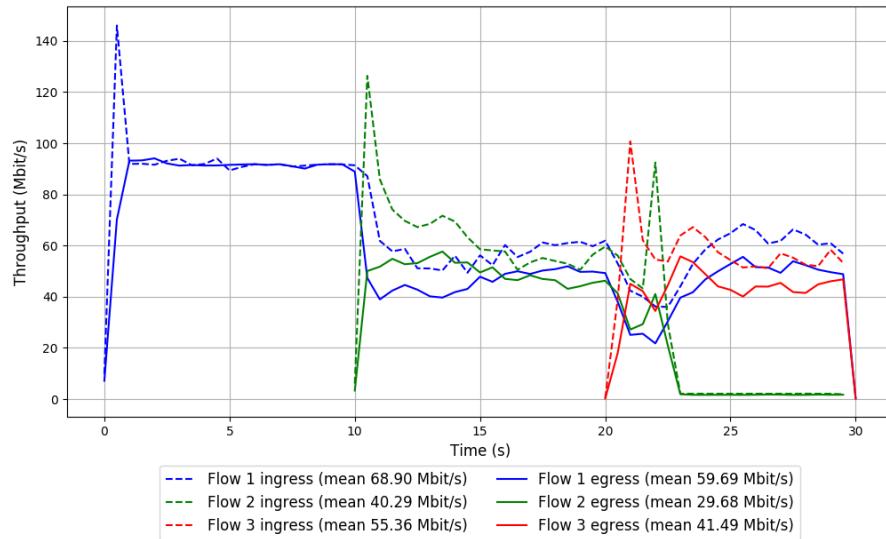


Run 8: Statistics of FillP

```
Start at: 2018-04-25 00:06:15
End at: 2018-04-25 00:06:45
Local clock offset: 0.896 ms
Remote clock offset: 0.605 ms

# Below is generated by plot.py at 2018-04-25 02:06:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.20 Mbit/s
95th percentile per-packet one-way delay: 68.135 ms
Loss rate: 18.23%
-- Flow 1:
Average throughput: 59.69 Mbit/s
95th percentile per-packet one-way delay: 66.883 ms
Loss rate: 13.29%
-- Flow 2:
Average throughput: 29.68 Mbit/s
95th percentile per-packet one-way delay: 69.346 ms
Loss rate: 26.25%
-- Flow 3:
Average throughput: 41.49 Mbit/s
95th percentile per-packet one-way delay: 69.293 ms
Loss rate: 25.06%
```

Run 8: Report of FillP — Data Link

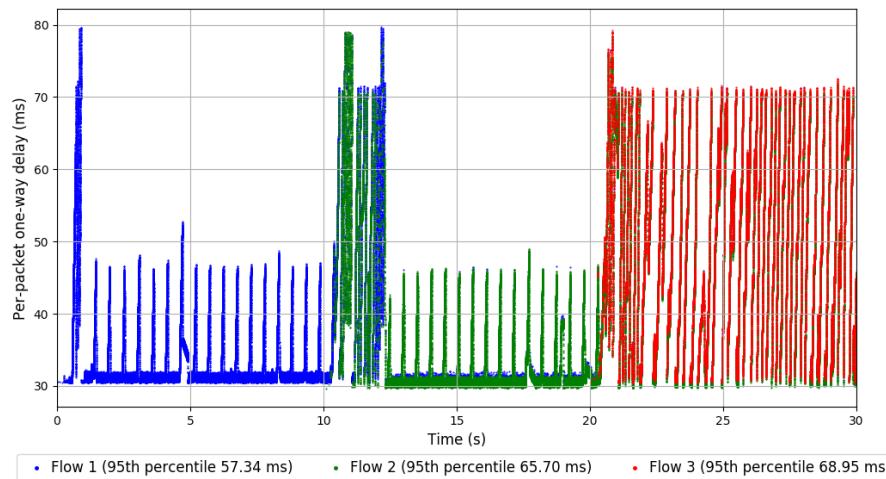
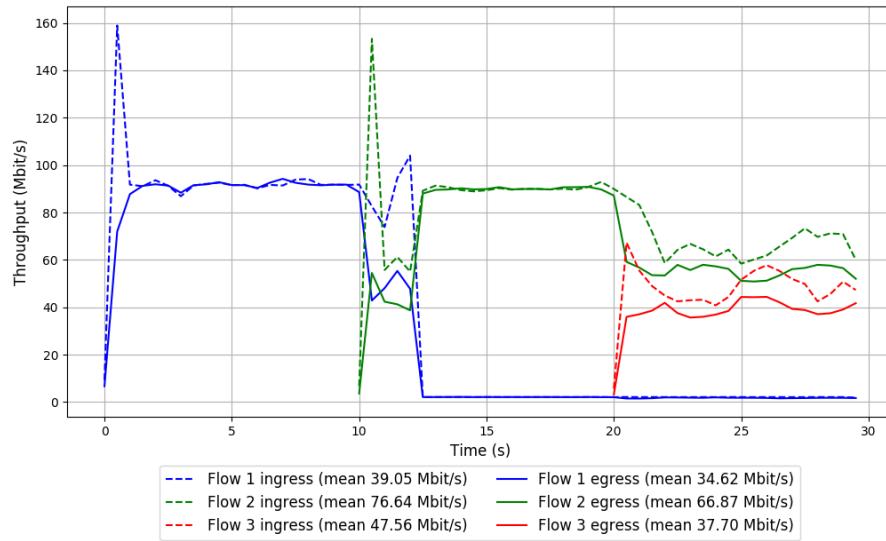


Run 9: Statistics of FillP

```
Start at: 2018-04-25 00:32:08
End at: 2018-04-25 00:32:38
Local clock offset: 1.022 ms
Remote clock offset: -0.476 ms

# Below is generated by plot.py at 2018-04-25 02:06:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.64 Mbit/s
95th percentile per-packet one-way delay: 65.524 ms
Loss rate: 13.35%
-- Flow 1:
Average throughput: 34.62 Mbit/s
95th percentile per-packet one-way delay: 57.342 ms
Loss rate: 11.30%
-- Flow 2:
Average throughput: 66.87 Mbit/s
95th percentile per-packet one-way delay: 65.702 ms
Loss rate: 12.69%
-- Flow 3:
Average throughput: 37.70 Mbit/s
95th percentile per-packet one-way delay: 68.952 ms
Loss rate: 20.59%
```

Run 9: Report of FillP — Data Link

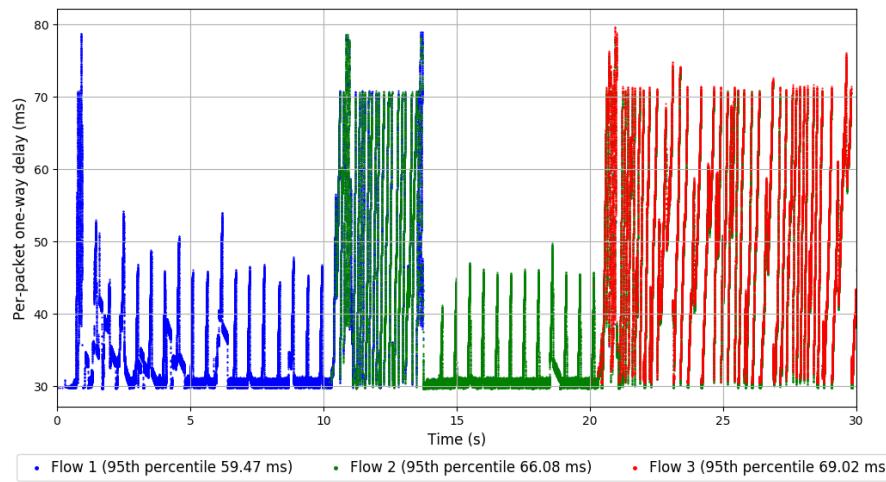
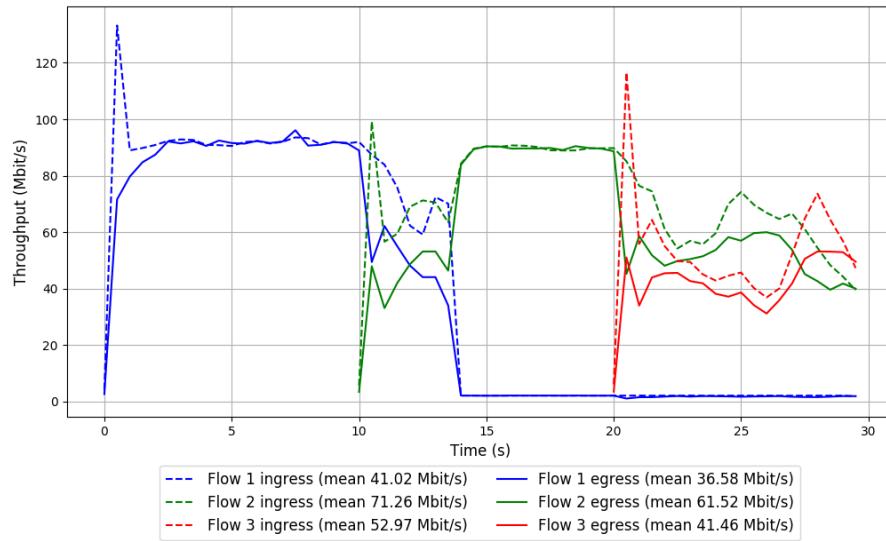


Run 10: Statistics of FillP

```
Start at: 2018-04-25 00:59:09
End at: 2018-04-25 00:59:39
Local clock offset: 1.17 ms
Remote clock offset: -3.605 ms

# Below is generated by plot.py at 2018-04-25 02:06:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.28 Mbit/s
95th percentile per-packet one-way delay: 65.786 ms
Loss rate: 13.84%
-- Flow 1:
Average throughput: 36.58 Mbit/s
95th percentile per-packet one-way delay: 59.471 ms
Loss rate: 10.79%
-- Flow 2:
Average throughput: 61.52 Mbit/s
95th percentile per-packet one-way delay: 66.076 ms
Loss rate: 13.61%
-- Flow 3:
Average throughput: 41.46 Mbit/s
95th percentile per-packet one-way delay: 69.023 ms
Loss rate: 21.61%
```

Run 10: Report of FillP — Data Link

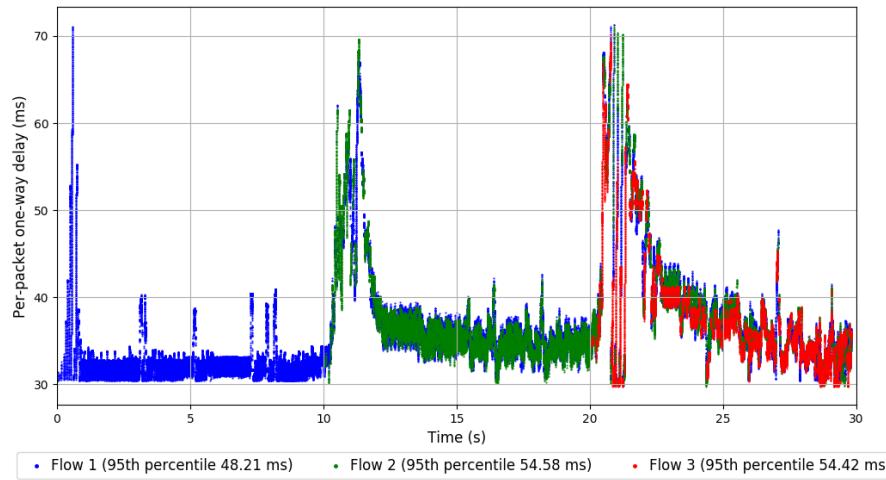
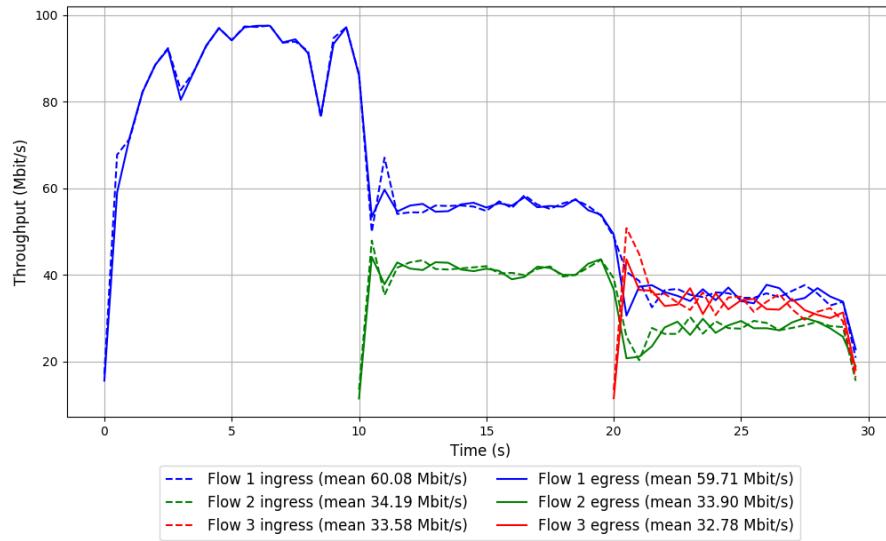


Run 1: Statistics of Indigo-1-32

```
Start at: 2018-04-24 21:12:06
End at: 2018-04-24 21:12:36
Local clock offset: 1.235 ms
Remote clock offset: -0.166 ms

# Below is generated by plot.py at 2018-04-25 02:06:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.92 Mbit/s
95th percentile per-packet one-way delay: 51.860 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 59.71 Mbit/s
95th percentile per-packet one-way delay: 48.212 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 33.90 Mbit/s
95th percentile per-packet one-way delay: 54.582 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 32.78 Mbit/s
95th percentile per-packet one-way delay: 54.423 ms
Loss rate: 2.34%
```

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

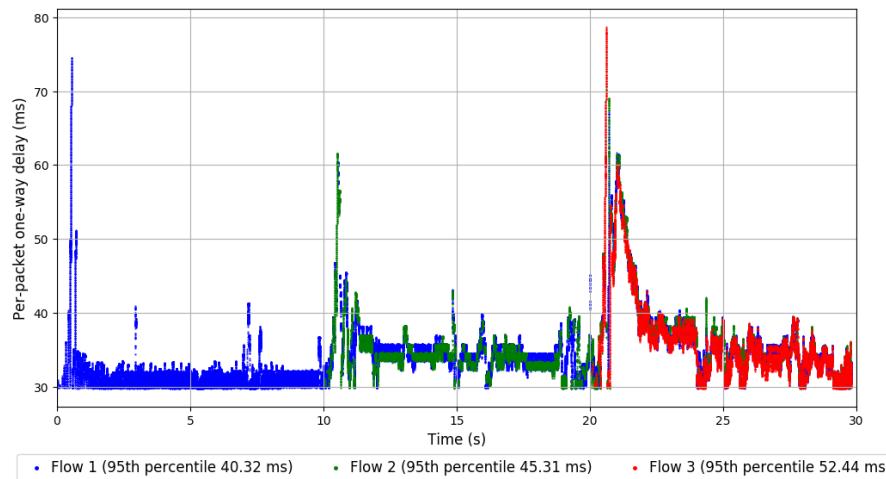
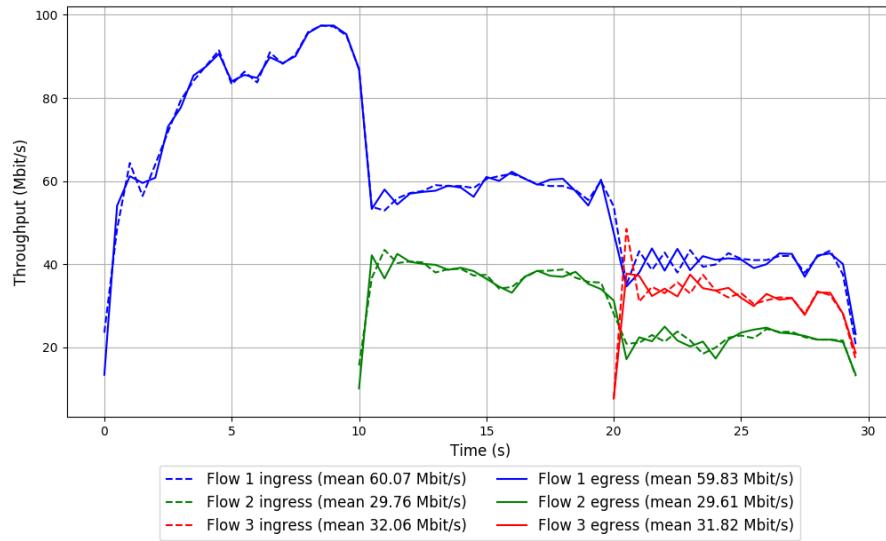


Run 2: Statistics of Indigo-1-32

```
Start at: 2018-04-24 21:37:19
End at: 2018-04-24 21:37:49
Local clock offset: 0.991 ms
Remote clock offset: -0.512 ms

# Below is generated by plot.py at 2018-04-25 02:06:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.85 Mbit/s
95th percentile per-packet one-way delay: 43.945 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 59.83 Mbit/s
95th percentile per-packet one-way delay: 40.321 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 29.61 Mbit/s
95th percentile per-packet one-way delay: 45.314 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 31.82 Mbit/s
95th percentile per-packet one-way delay: 52.441 ms
Loss rate: 0.74%
```

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

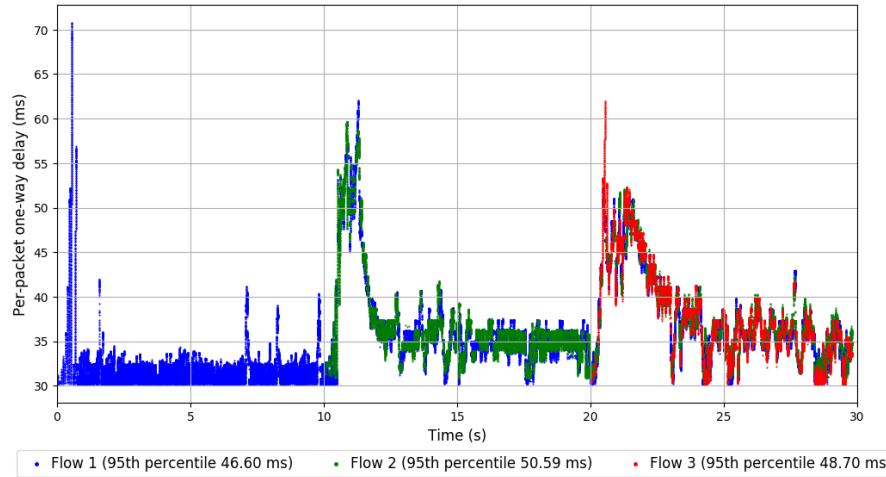
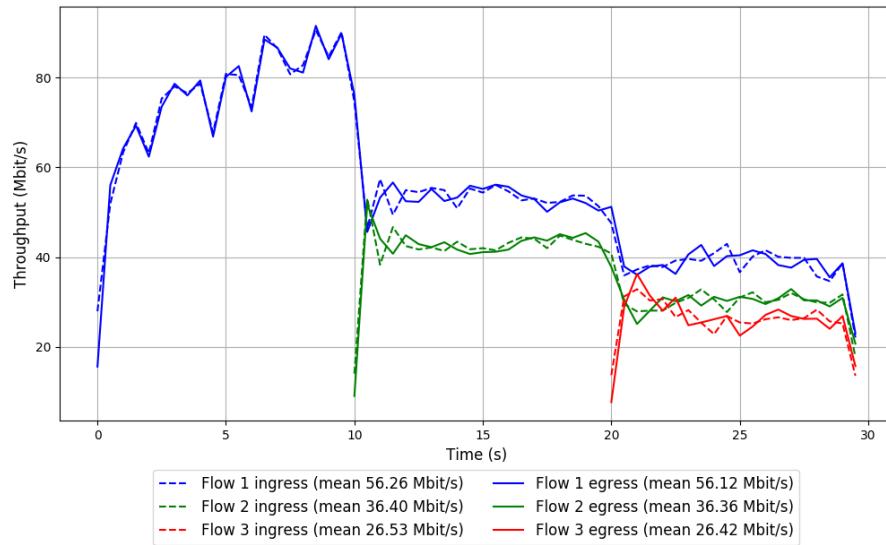


Run 3: Statistics of Indigo-1-32

```
Start at: 2018-04-24 22:02:32
End at: 2018-04-24 22:03:02
Local clock offset: 0.452 ms
Remote clock offset: 0.153 ms

# Below is generated by plot.py at 2018-04-25 02:06:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.85 Mbit/s
95th percentile per-packet one-way delay: 48.334 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 56.12 Mbit/s
95th percentile per-packet one-way delay: 46.596 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 36.36 Mbit/s
95th percentile per-packet one-way delay: 50.595 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 26.42 Mbit/s
95th percentile per-packet one-way delay: 48.699 ms
Loss rate: 0.41%
```

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

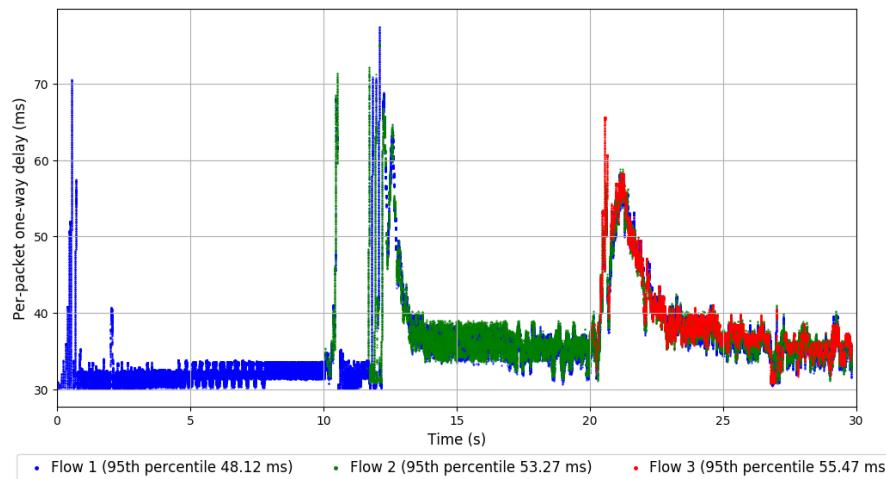
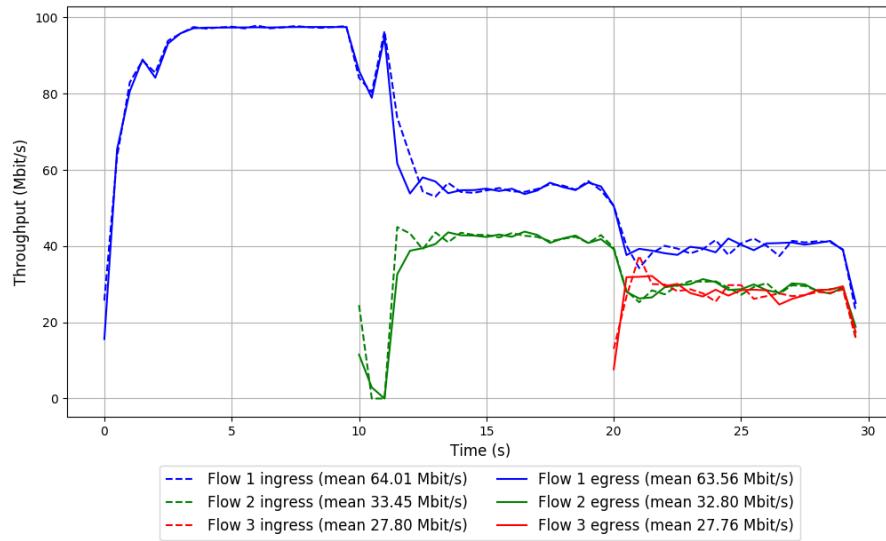


Run 4: Statistics of Indigo-1-32

```
Start at: 2018-04-24 22:27:31
End at: 2018-04-24 22:28:01
Local clock offset: 0.338 ms
Remote clock offset: 0.377 ms

# Below is generated by plot.py at 2018-04-25 02:06:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.38 Mbit/s
95th percentile per-packet one-way delay: 51.149 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 63.56 Mbit/s
95th percentile per-packet one-way delay: 48.121 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 32.80 Mbit/s
95th percentile per-packet one-way delay: 53.273 ms
Loss rate: 1.95%
-- Flow 3:
Average throughput: 27.76 Mbit/s
95th percentile per-packet one-way delay: 55.465 ms
Loss rate: 0.16%
```

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

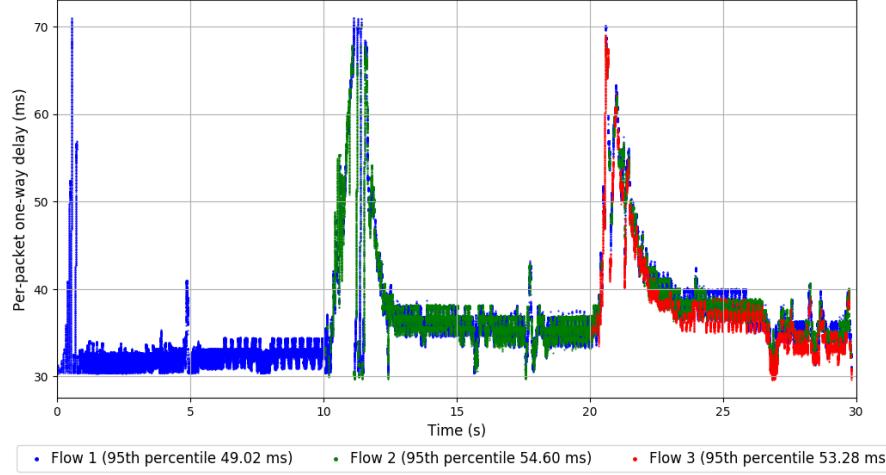
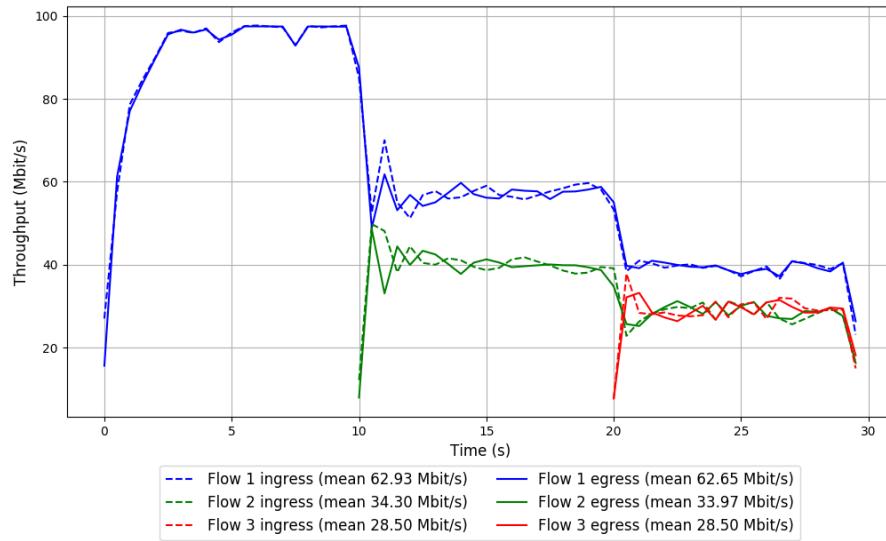


Run 5: Statistics of Indigo-1-32

```
Start at: 2018-04-24 22:52:07
End at: 2018-04-24 22:52:37
Local clock offset: 0.579 ms
Remote clock offset: -0.44 ms

# Below is generated by plot.py at 2018-04-25 02:06:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.45 Mbit/s
95th percentile per-packet one-way delay: 51.523 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 62.65 Mbit/s
95th percentile per-packet one-way delay: 49.023 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 33.97 Mbit/s
95th percentile per-packet one-way delay: 54.600 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 28.50 Mbit/s
95th percentile per-packet one-way delay: 53.284 ms
Loss rate: 0.02%
```

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

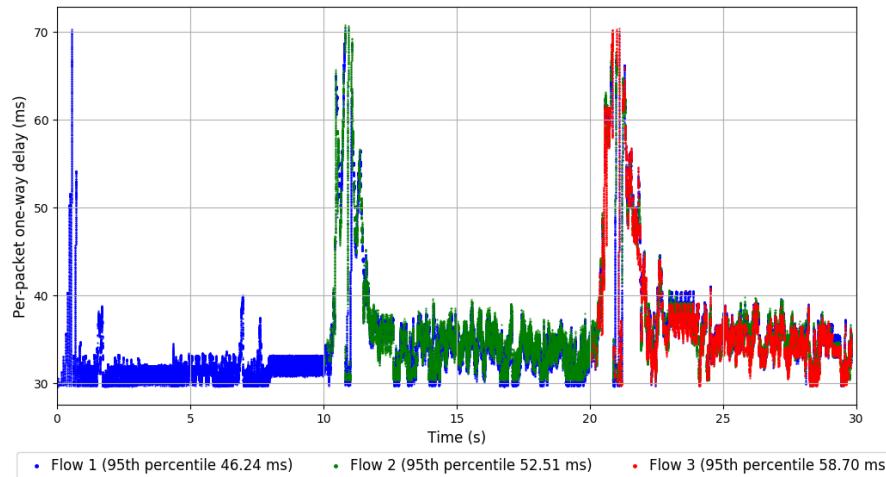
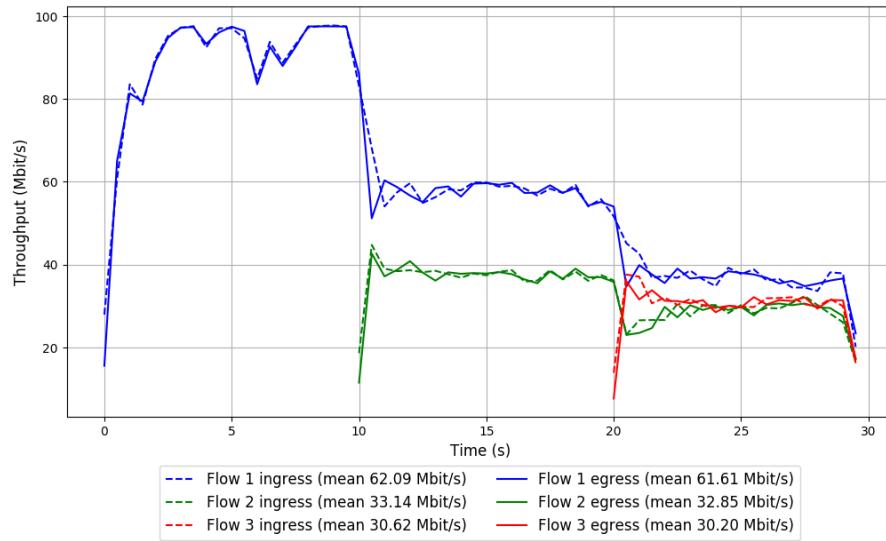


Run 6: Statistics of Indigo-1-32

```
Start at: 2018-04-24 23:17:17
End at: 2018-04-24 23:17:47
Local clock offset: 0.759 ms
Remote clock offset: 0.319 ms

# Below is generated by plot.py at 2018-04-25 02:06:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.29 Mbit/s
95th percentile per-packet one-way delay: 50.120 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 61.61 Mbit/s
95th percentile per-packet one-way delay: 46.240 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 32.85 Mbit/s
95th percentile per-packet one-way delay: 52.508 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 30.20 Mbit/s
95th percentile per-packet one-way delay: 58.700 ms
Loss rate: 1.37%
```

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

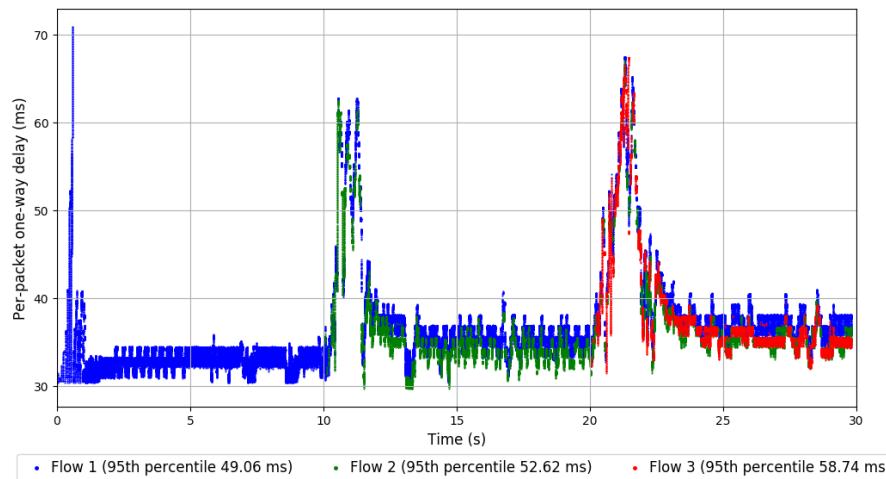
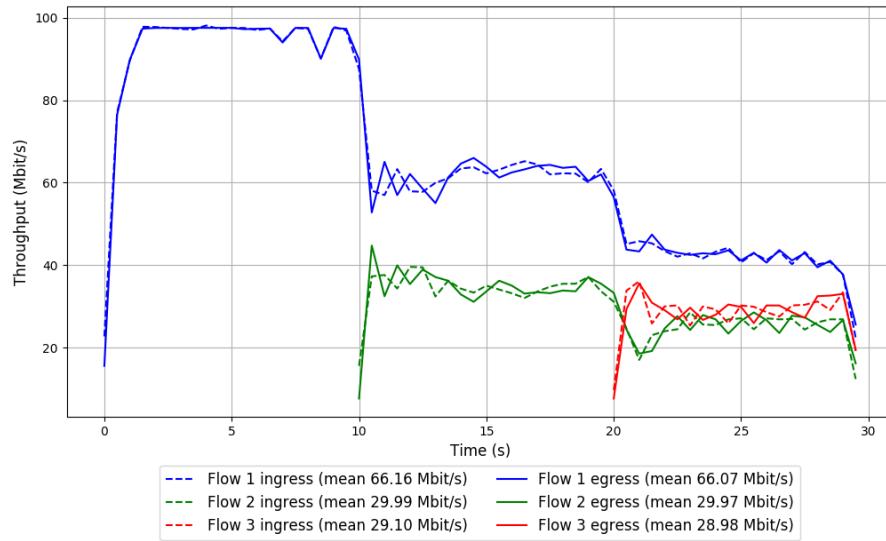


Run 7: Statistics of Indigo-1-32

```
Start at: 2018-04-24 23:42:32
End at: 2018-04-24 23:43:02
Local clock offset: 0.769 ms
Remote clock offset: 0.347 ms

# Below is generated by plot.py at 2018-04-25 02:06:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.42 Mbit/s
95th percentile per-packet one-way delay: 51.510 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 66.07 Mbit/s
95th percentile per-packet one-way delay: 49.057 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 29.97 Mbit/s
95th percentile per-packet one-way delay: 52.617 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 28.98 Mbit/s
95th percentile per-packet one-way delay: 58.740 ms
Loss rate: 0.36%
```

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

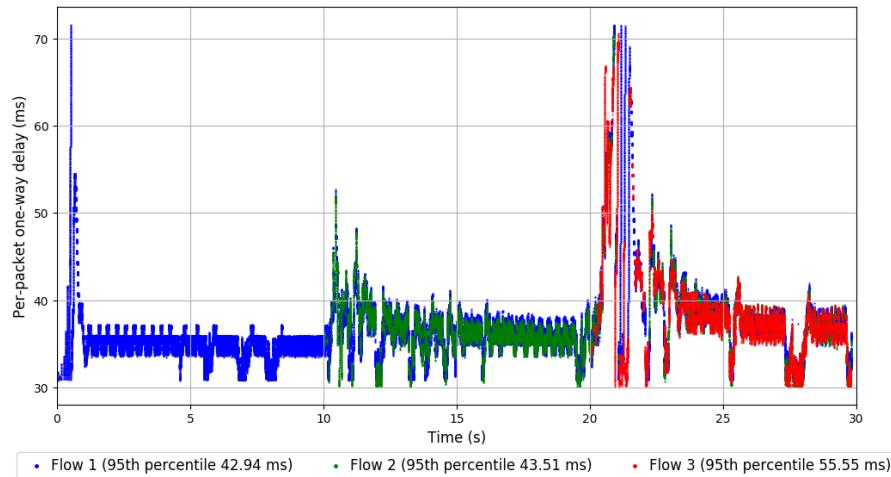
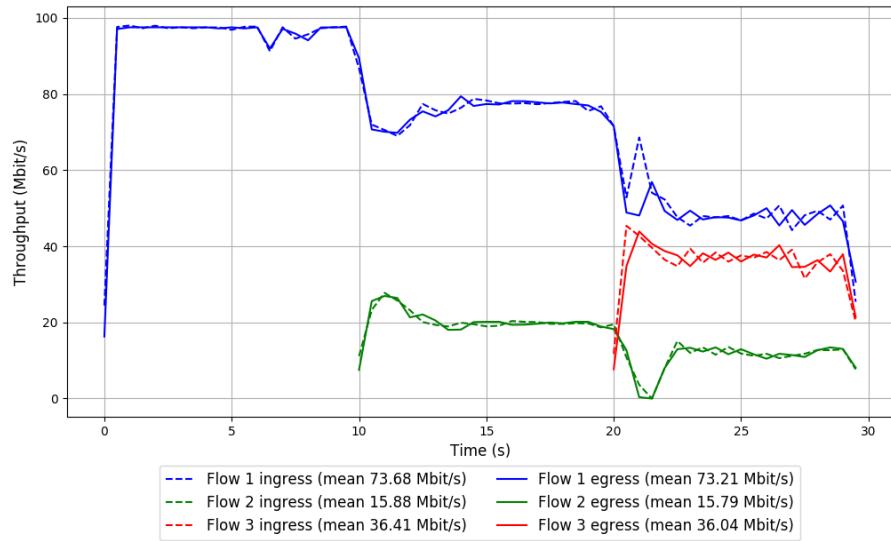


Run 8: Statistics of Indigo-1-32

```
Start at: 2018-04-25 00:07:46
End at: 2018-04-25 00:08:16
Local clock offset: 0.918 ms
Remote clock offset: 0.976 ms

# Below is generated by plot.py at 2018-04-25 02:07:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.45 Mbit/s
95th percentile per-packet one-way delay: 44.278 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 73.21 Mbit/s
95th percentile per-packet one-way delay: 42.937 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 15.79 Mbit/s
95th percentile per-packet one-way delay: 43.509 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 36.04 Mbit/s
95th percentile per-packet one-way delay: 55.550 ms
Loss rate: 1.03%
```

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

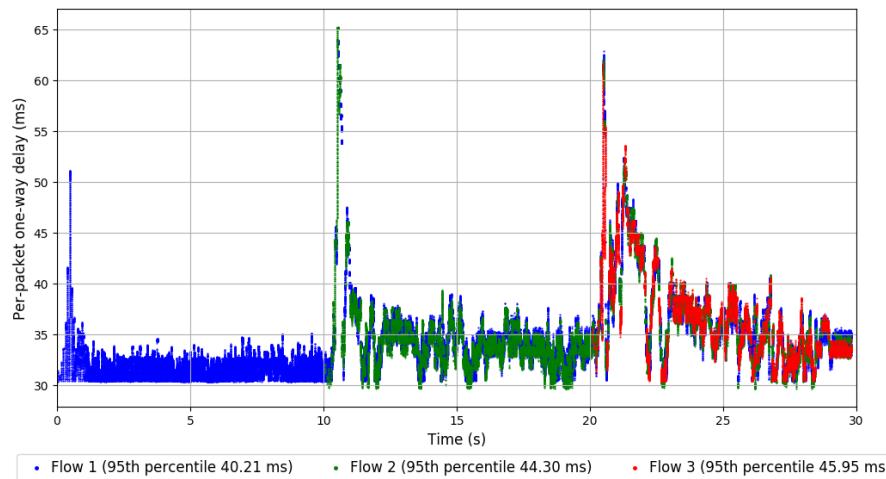
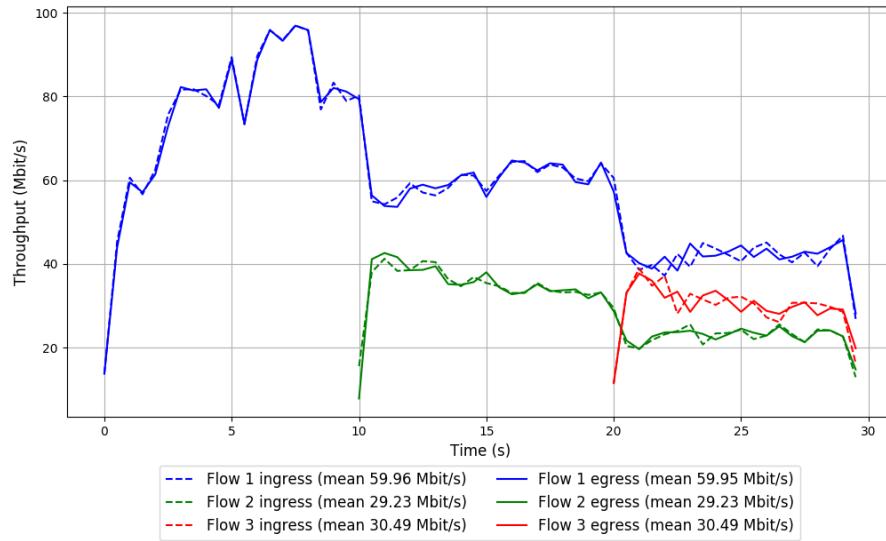


Run 9: Statistics of Indigo-1-32

```
Start at: 2018-04-25 00:33:41
End at: 2018-04-25 00:34:11
Local clock offset: 1.03 ms
Remote clock offset: -0.515 ms

# Below is generated by plot.py at 2018-04-25 02:07:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.27 Mbit/s
95th percentile per-packet one-way delay: 43.180 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.95 Mbit/s
95th percentile per-packet one-way delay: 40.209 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 29.23 Mbit/s
95th percentile per-packet one-way delay: 44.300 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.49 Mbit/s
95th percentile per-packet one-way delay: 45.949 ms
Loss rate: 0.00%
```

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

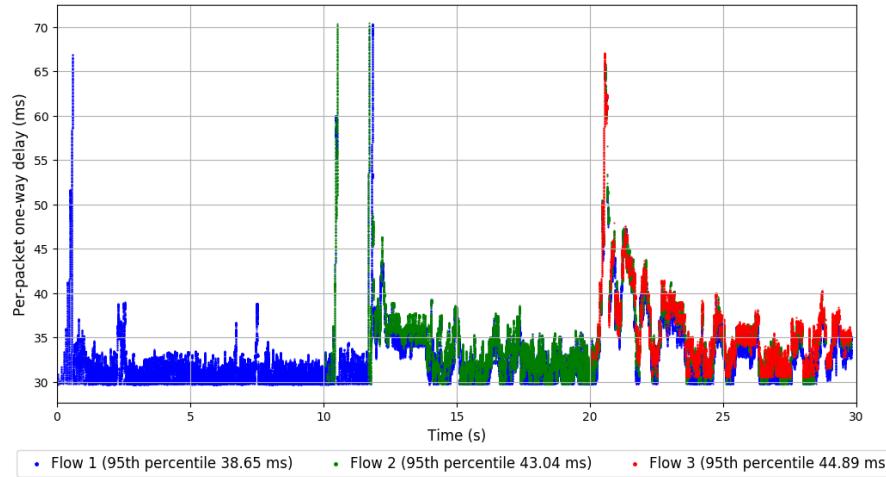
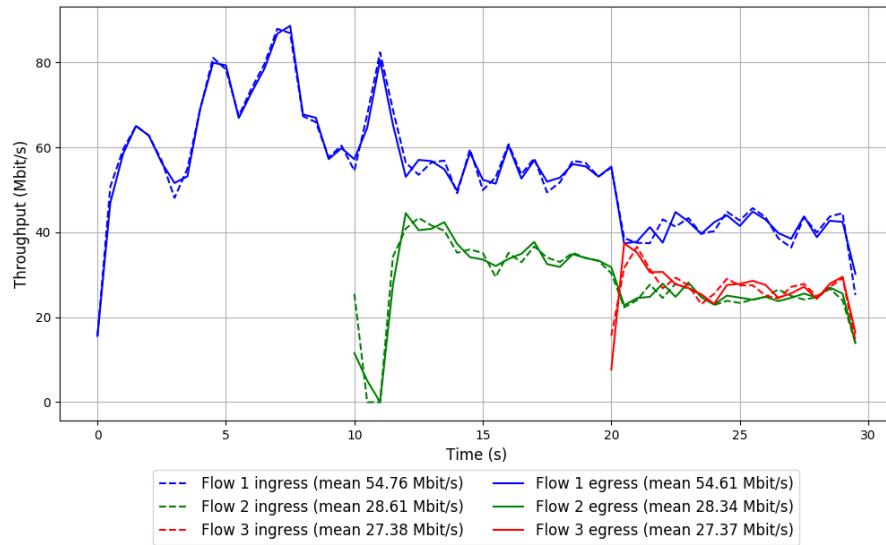


Run 10: Statistics of Indigo-1-32

```
Start at: 2018-04-25 01:00:41
End at: 2018-04-25 01:01:11
Local clock offset: 1.1 ms
Remote clock offset: -3.784 ms

# Below is generated by plot.py at 2018-04-25 02:07:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.30 Mbit/s
95th percentile per-packet one-way delay: 41.199 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 54.61 Mbit/s
95th percentile per-packet one-way delay: 38.648 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 28.34 Mbit/s
95th percentile per-packet one-way delay: 43.044 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 27.37 Mbit/s
95th percentile per-packet one-way delay: 44.894 ms
Loss rate: 0.00%
```

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

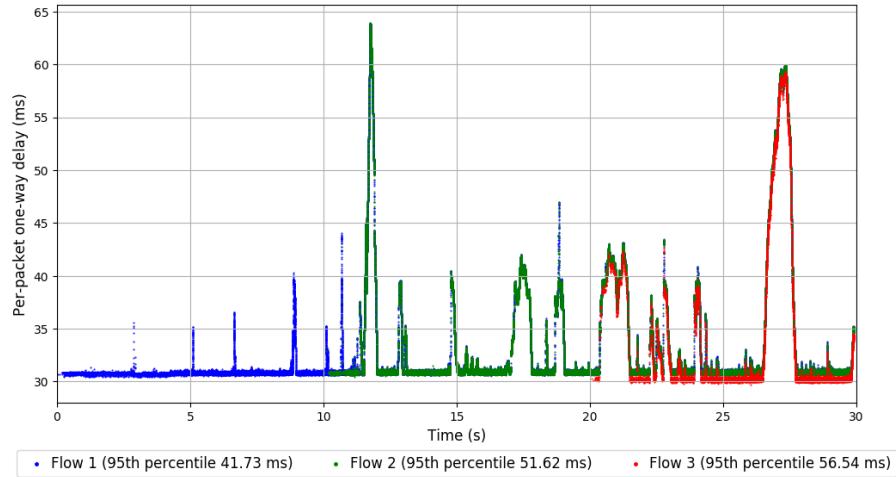
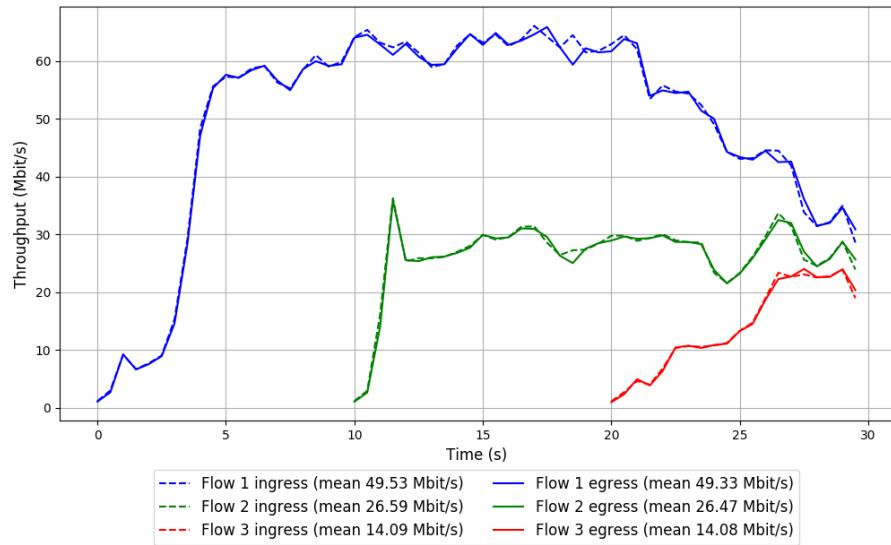


Run 1: Statistics of PCC-Vivace

```
Start at: 2018-04-24 21:13:35
End at: 2018-04-24 21:14:05
Local clock offset: 1.159 ms
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2018-04-25 02:07:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.57 Mbit/s
95th percentile per-packet one-way delay: 45.675 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 49.33 Mbit/s
95th percentile per-packet one-way delay: 41.731 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 26.47 Mbit/s
95th percentile per-packet one-way delay: 51.617 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 14.08 Mbit/s
95th percentile per-packet one-way delay: 56.537 ms
Loss rate: 0.05%
```

Run 1: Report of PCC-Vivace — Data Link

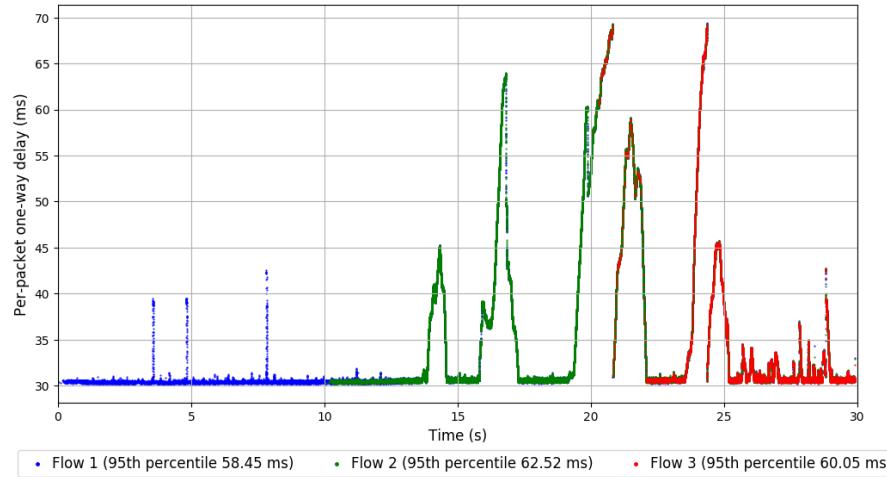
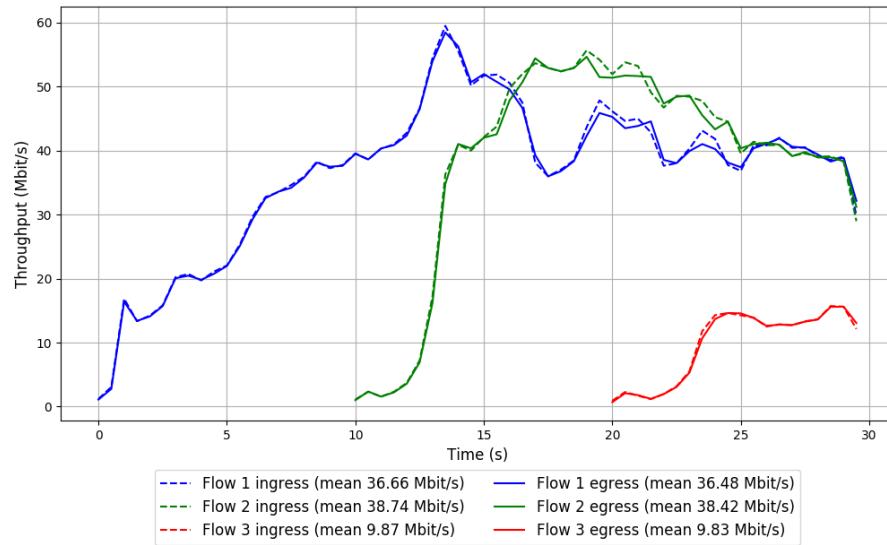


Run 2: Statistics of PCC-Vivace

```
Start at: 2018-04-24 21:38:50
End at: 2018-04-24 21:39:20
Local clock offset: 1.022 ms
Remote clock offset: -0.561 ms

# Below is generated by plot.py at 2018-04-25 02:07:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.25 Mbit/s
95th percentile per-packet one-way delay: 60.364 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 36.48 Mbit/s
95th percentile per-packet one-way delay: 58.455 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 38.42 Mbit/s
95th percentile per-packet one-way delay: 62.525 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 9.83 Mbit/s
95th percentile per-packet one-way delay: 60.055 ms
Loss rate: 0.64%
```

Run 2: Report of PCC-Vivace — Data Link

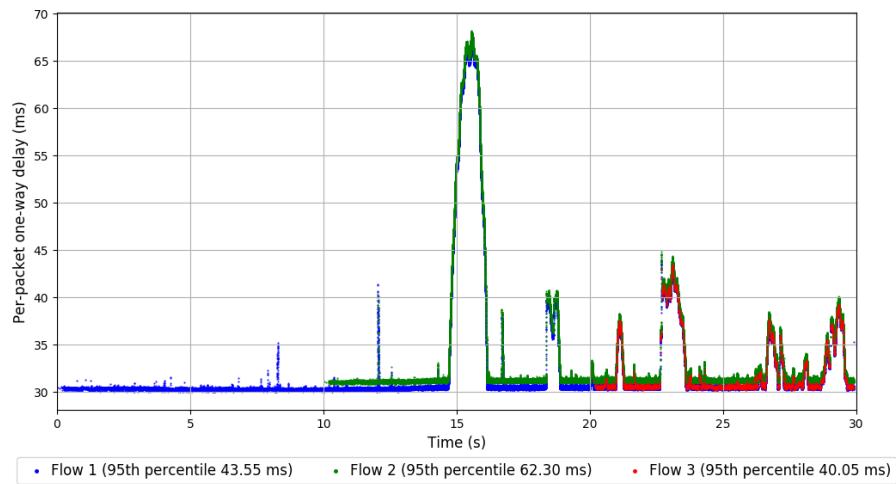
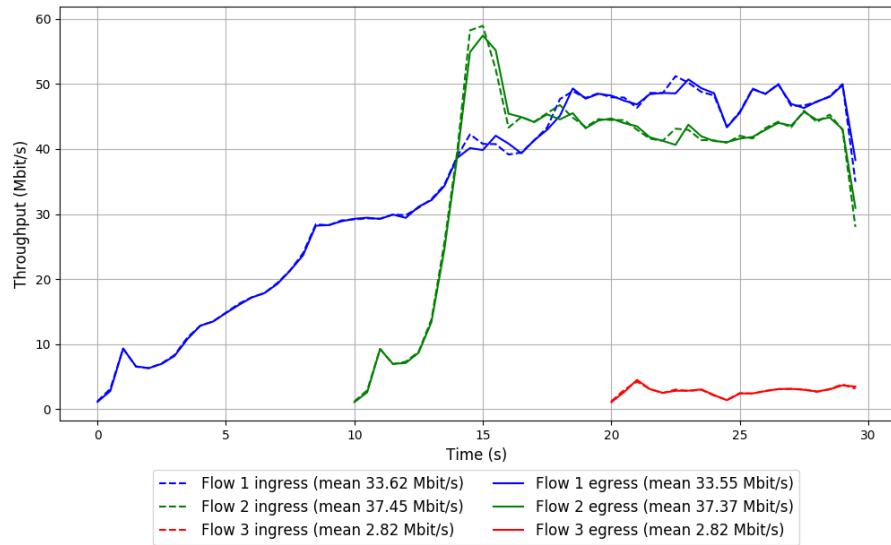


Run 3: Statistics of PCC-Vivace

```
Start at: 2018-04-24 22:04:14
End at: 2018-04-24 22:04:44
Local clock offset: 0.321 ms
Remote clock offset: 0.219 ms

# Below is generated by plot.py at 2018-04-25 02:07:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.32 Mbit/s
95th percentile per-packet one-way delay: 53.817 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 33.55 Mbit/s
95th percentile per-packet one-way delay: 43.551 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 37.37 Mbit/s
95th percentile per-packet one-way delay: 62.295 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 2.82 Mbit/s
95th percentile per-packet one-way delay: 40.055 ms
Loss rate: 0.17%
```

Run 3: Report of PCC-Vivace — Data Link

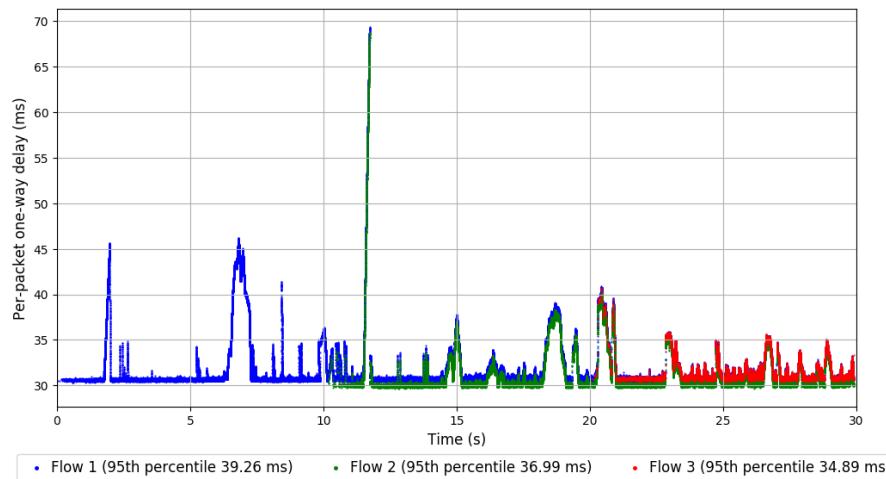
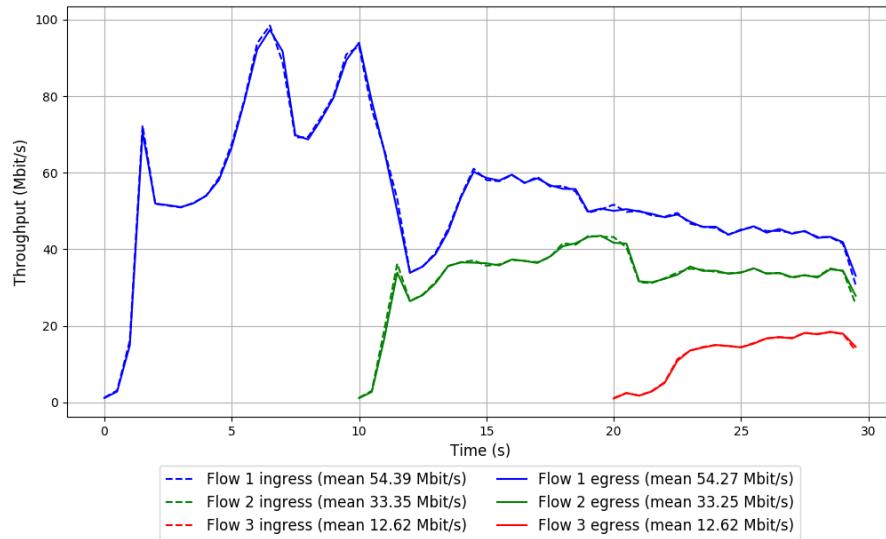


Run 4: Statistics of PCC-Vivace

```
Start at: 2018-04-24 22:28:56
End at: 2018-04-24 22:29:26
Local clock offset: 0.243 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2018-04-25 02:07:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.53 Mbit/s
95th percentile per-packet one-way delay: 38.182 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 54.27 Mbit/s
95th percentile per-packet one-way delay: 39.262 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 33.25 Mbit/s
95th percentile per-packet one-way delay: 36.991 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 12.62 Mbit/s
95th percentile per-packet one-way delay: 34.890 ms
Loss rate: 0.01%
```

Run 4: Report of PCC-Vivace — Data Link

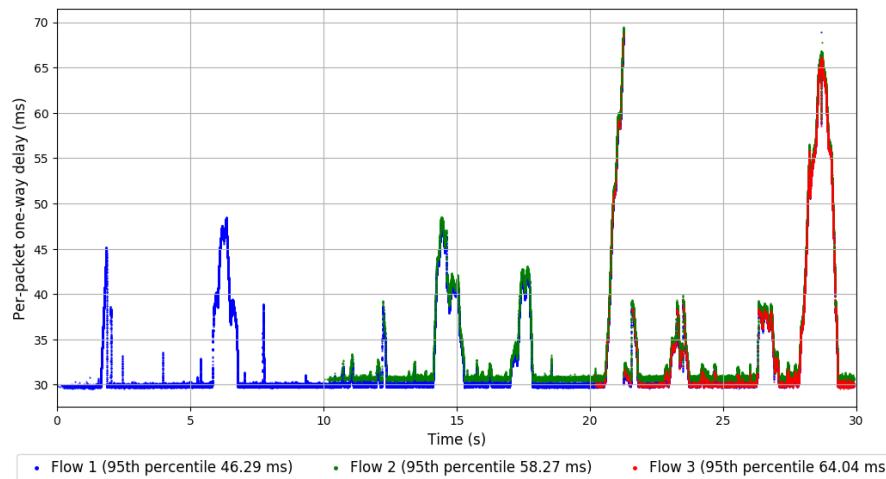
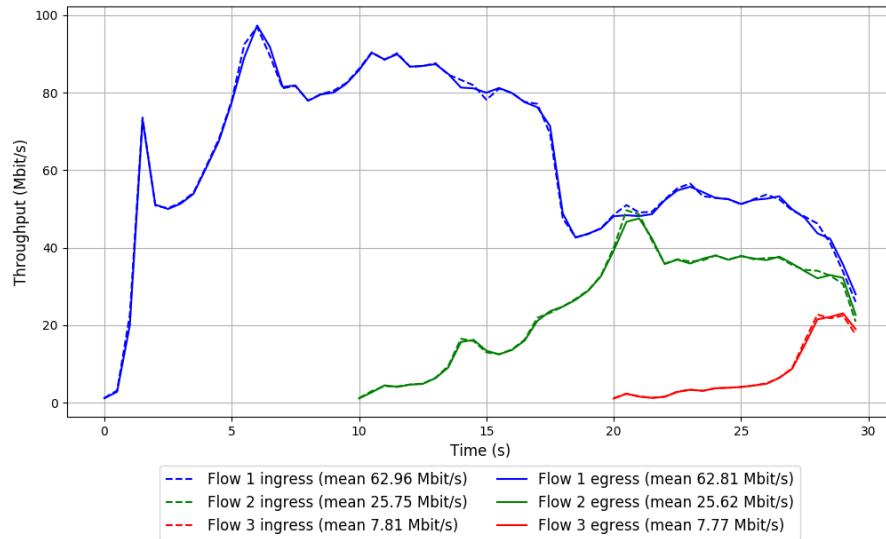


Run 5: Statistics of PCC-Vivace

```
Start at: 2018-04-24 22:53:37
End at: 2018-04-24 22:54:07
Local clock offset: 0.594 ms
Remote clock offset: -0.433 ms

# Below is generated by plot.py at 2018-04-25 02:07:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.40 Mbit/s
95th percentile per-packet one-way delay: 51.242 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 62.81 Mbit/s
95th percentile per-packet one-way delay: 46.291 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 25.62 Mbit/s
95th percentile per-packet one-way delay: 58.268 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 7.77 Mbit/s
95th percentile per-packet one-way delay: 64.039 ms
Loss rate: 0.51%
```

Run 5: Report of PCC-Vivace — Data Link

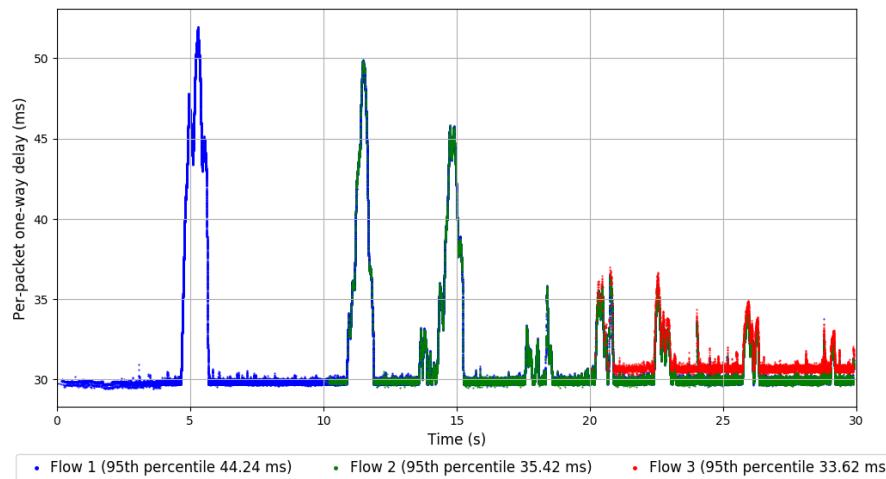
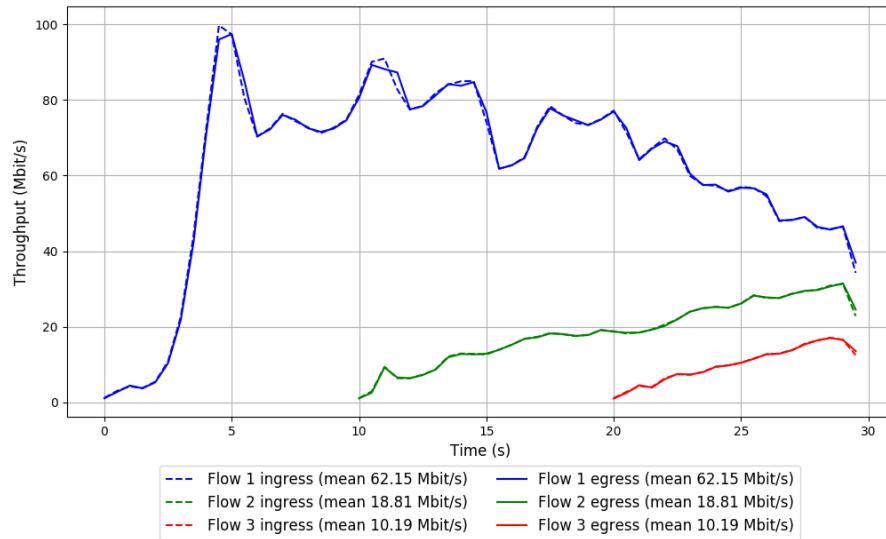


Run 6: Statistics of PCC-Vivace

```
Start at: 2018-04-24 23:18:48
End at: 2018-04-24 23:19:18
Local clock offset: 0.769 ms
Remote clock offset: 0.343 ms

# Below is generated by plot.py at 2018-04-25 02:08:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.01 Mbit/s
95th percentile per-packet one-way delay: 43.636 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 62.15 Mbit/s
95th percentile per-packet one-way delay: 44.236 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 18.81 Mbit/s
95th percentile per-packet one-way delay: 35.422 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.19 Mbit/s
95th percentile per-packet one-way delay: 33.619 ms
Loss rate: 0.00%
```

Run 6: Report of PCC-Vivace — Data Link

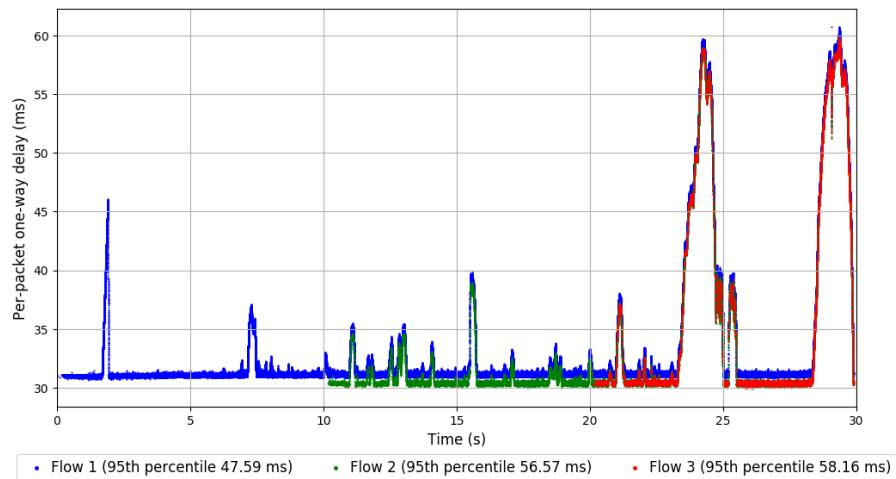
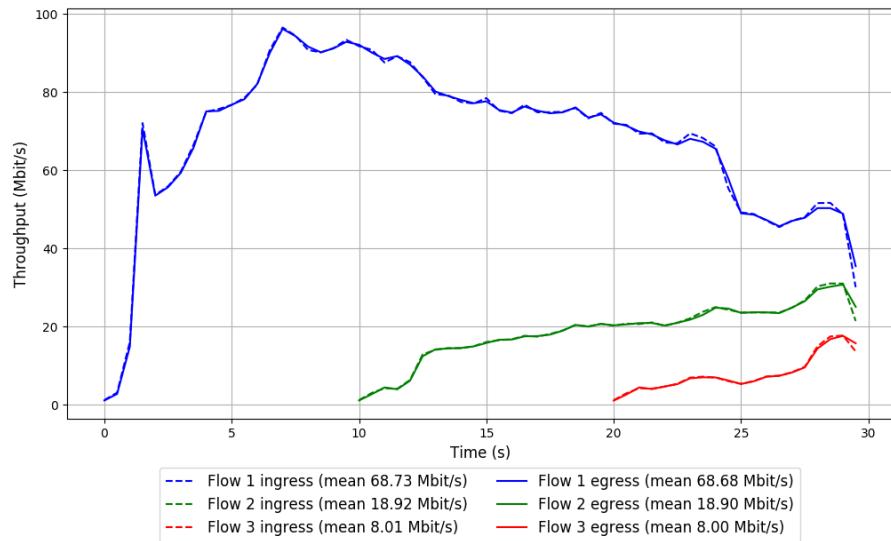


Run 7: Statistics of PCC-Vivace

```
Start at: 2018-04-24 23:44:00
End at: 2018-04-24 23:44:30
Local clock offset: 0.773 ms
Remote clock offset: 0.793 ms

# Below is generated by plot.py at 2018-04-25 02:08:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.89 Mbit/s
95th percentile per-packet one-way delay: 54.398 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 68.68 Mbit/s
95th percentile per-packet one-way delay: 47.592 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 18.90 Mbit/s
95th percentile per-packet one-way delay: 56.571 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 8.00 Mbit/s
95th percentile per-packet one-way delay: 58.165 ms
Loss rate: 0.13%
```

Run 7: Report of PCC-Vivace — Data Link

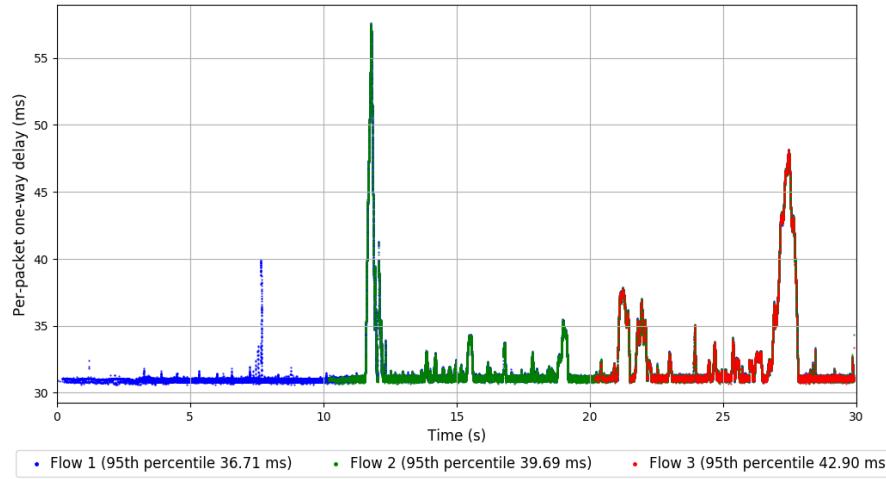
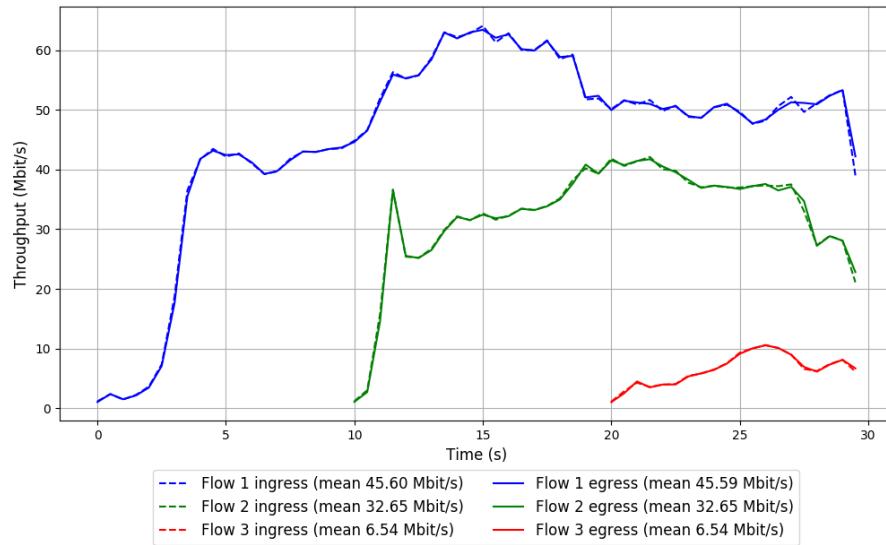


Run 8: Statistics of PCC-Vivace

```
Start at: 2018-04-25 00:09:22
End at: 2018-04-25 00:09:52
Local clock offset: 0.954 ms
Remote clock offset: 0.997 ms

# Below is generated by plot.py at 2018-04-25 02:08:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.45 Mbit/s
95th percentile per-packet one-way delay: 37.429 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 45.59 Mbit/s
95th percentile per-packet one-way delay: 36.714 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 32.65 Mbit/s
95th percentile per-packet one-way delay: 39.689 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 6.54 Mbit/s
95th percentile per-packet one-way delay: 42.900 ms
Loss rate: 0.00%
```

Run 8: Report of PCC-Vivace — Data Link

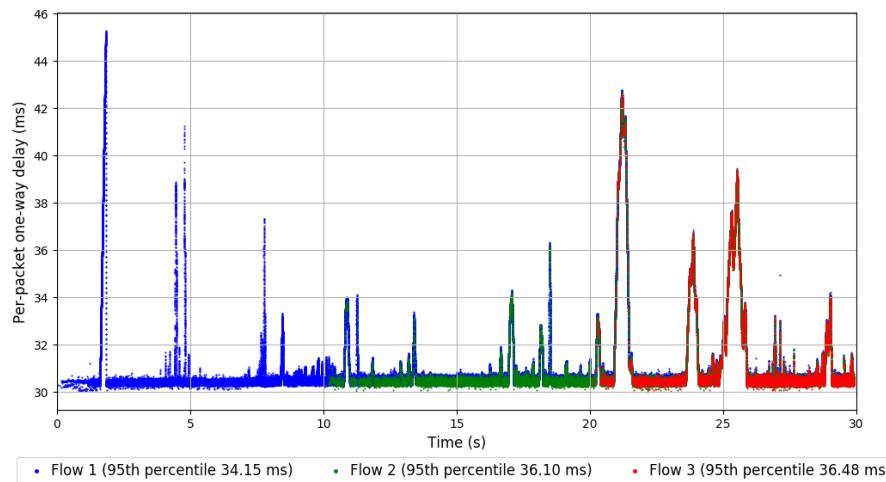
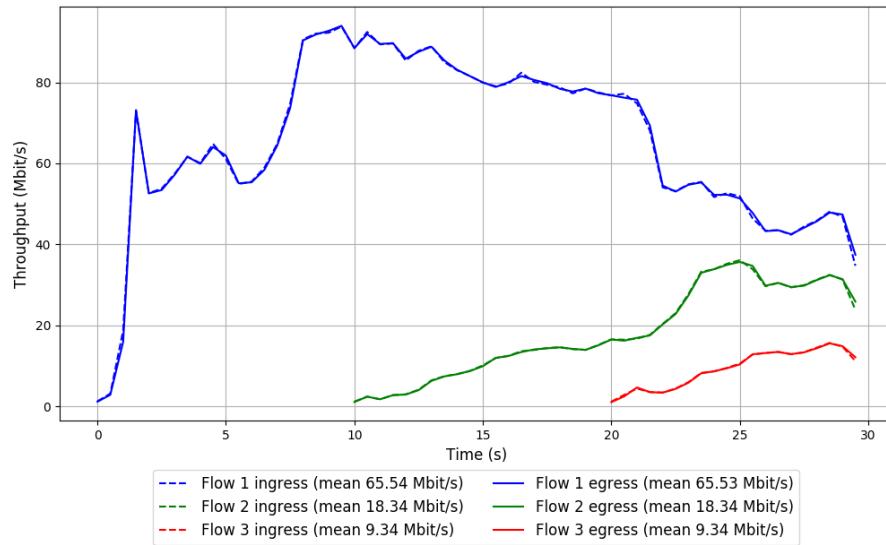


Run 9: Statistics of PCC-Vivace

```
Start at: 2018-04-25 00:35:24
End at: 2018-04-25 00:35:54
Local clock offset: 1.004 ms
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2018-04-25 02:08:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.81 Mbit/s
95th percentile per-packet one-way delay: 34.964 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 65.53 Mbit/s
95th percentile per-packet one-way delay: 34.149 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 18.34 Mbit/s
95th percentile per-packet one-way delay: 36.097 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.34 Mbit/s
95th percentile per-packet one-way delay: 36.483 ms
Loss rate: 0.00%
```

Run 9: Report of PCC-Vivace — Data Link

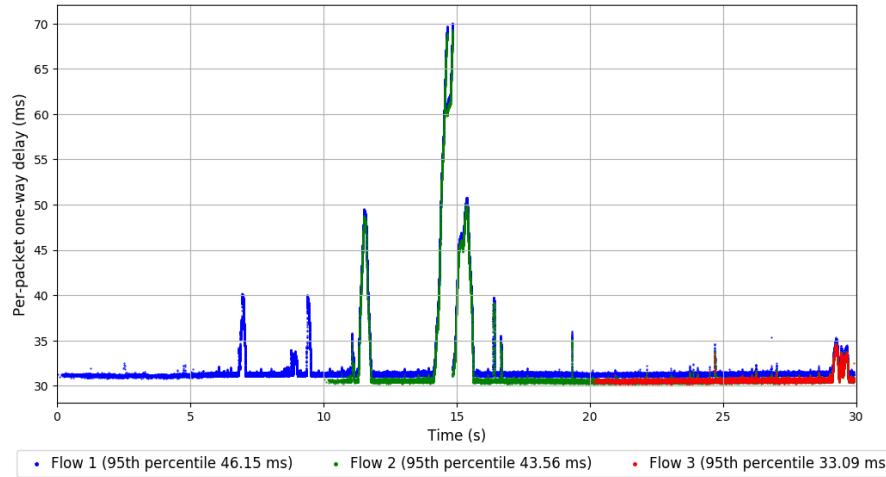
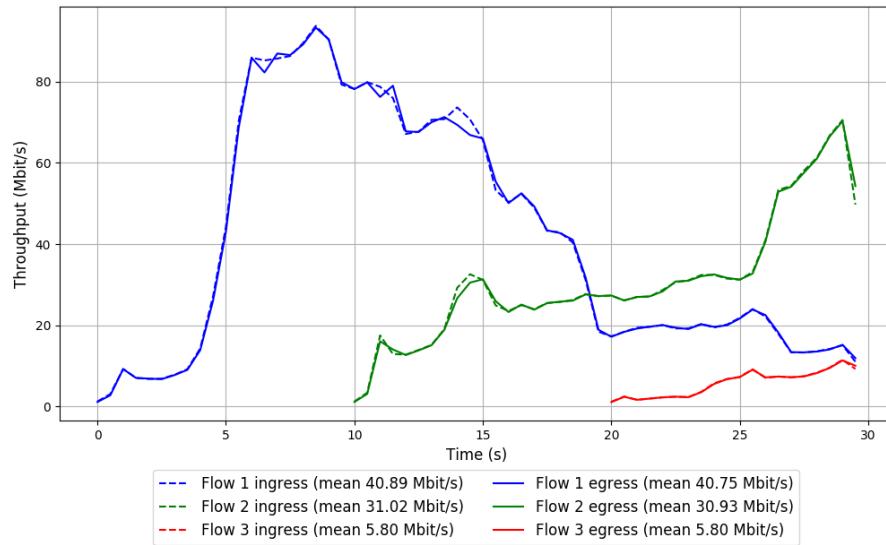


Run 10: Statistics of PCC-Vivace

```
Start at: 2018-04-25 01:02:18
End at: 2018-04-25 01:02:48
Local clock offset: 1.076 ms
Remote clock offset: -3.393 ms

# Below is generated by plot.py at 2018-04-25 02:08:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.23 Mbit/s
95th percentile per-packet one-way delay: 45.323 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 40.75 Mbit/s
95th percentile per-packet one-way delay: 46.152 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 30.93 Mbit/s
95th percentile per-packet one-way delay: 43.560 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 5.80 Mbit/s
95th percentile per-packet one-way delay: 33.091 ms
Loss rate: 0.00%
```

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-24 21:07:51
End at: 2018-04-24 21:08:21
Local clock offset: 1.171 ms
Remote clock offset: -0.123 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 21:33:00
End at: 2018-04-24 21:33:31
Local clock offset: 1.257 ms
Remote clock offset: -0.457 ms

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-04-24 21:58:13
End at: 2018-04-24 21:58:43
Local clock offset: 0.416 ms
Remote clock offset: -0.435 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 22:23:20

End at: 2018-04-24 22:23:50

Local clock offset: 0.326 ms

Remote clock offset: 0.042 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 22:47:46
End at: 2018-04-24 22:48:16
Local clock offset: 0.365 ms
Remote clock offset: -0.403 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 23:12:51

End at: 2018-04-24 23:13:21

Local clock offset: 0.681 ms

Remote clock offset: 0.16 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 23:38:11

End at: 2018-04-24 23:38:41

Local clock offset: 0.684 ms

Remote clock offset: 0.532 ms

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-04-25 00:03:19

End at: 2018-04-25 00:03:49

Local clock offset: 0.891 ms

Remote clock offset: 0.876 ms

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-04-25 00:29:03

End at: 2018-04-25 00:29:33

Local clock offset: 1.002 ms

Remote clock offset: -0.427 ms

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-04-25 00:56:07

End at: 2018-04-25 00:56:37

Local clock offset: 1.064 ms

Remote clock offset: -2.631 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing