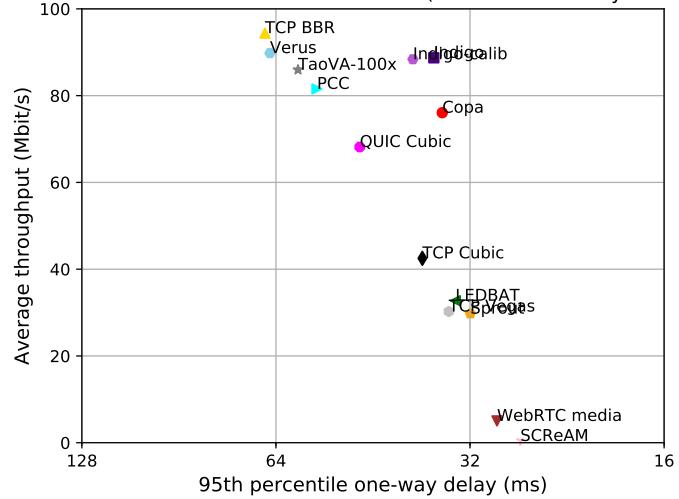


Pantheon Report

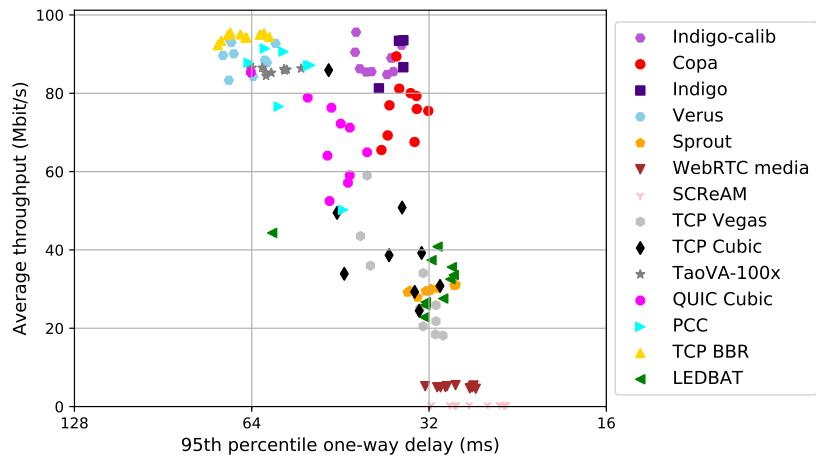
Generated at 2017-12-06 02:13:26 (UTC).
Data path: Mexico Ethernet (*remote*) → AWS California 2 Ethernet (*local*).
Repeated the test of 14 congestion control schemes 10 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).
NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

```
Git summary:  
branch: indigos @ e3a57ad5ac5cfaca0e3f983c8dd4cc3509e0262  
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50  
M datagrump/sender.cc  
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737  
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55  
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2  
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89  
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c  
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5  
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fab936fdca204b80db  
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda  
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681  
M datagrump/sender.cc  
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf  
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4  
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1  
M receiver/src/buffer.h  
M receiver/src/core.cpp  
M sender/src/buffer.h  
M sender/src/core.cpp  
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42  
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885  
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681  
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce  
M src/examples/cellsim.cc  
M src/examples/sproutbt2.cc  
M src/network/sproutconn.cc  
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494  
M src/verus.hpp  
M tools/plot.py  
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from Mexico Ethernet to AWS California 2 Ethernet, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from Mexico Ethernet to AWS California 2 Ethernet, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows



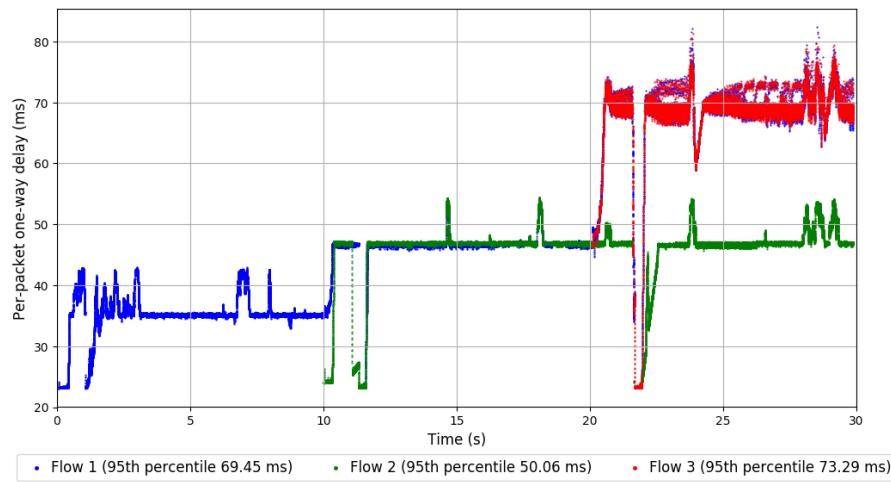
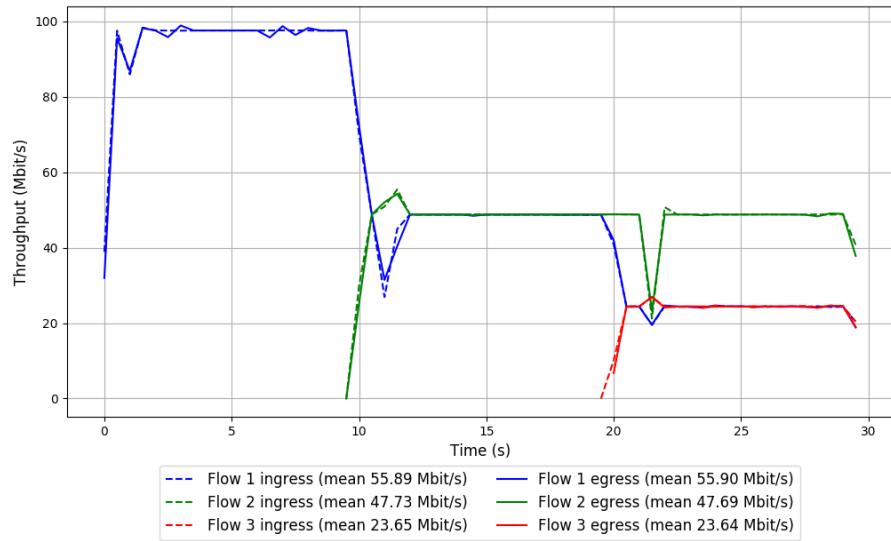
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	58.06	39.18	30.96	61.66	65.92	67.54	1.13	1.29	1.67
TCP Cubic	9	18.45	20.40	31.56	33.98	35.13	41.08	0.41	0.52	0.63
LEDBAT	10	17.59	15.72	14.20	33.47	33.96	32.45	0.44	0.54	0.91
PCC	7	54.51	25.28	28.89	53.72	56.74	47.15	0.96	1.34	2.19
QUIC Cubic	10	35.24	33.57	32.36	40.20	47.29	50.97	0.52	0.56	0.72
SCReAM	10	0.20	0.20	0.21	26.91	26.74	26.21	0.24	0.47	0.56
WebRTC media	10	2.72	1.65	0.67	28.79	29.08	29.08	0.52	0.54	1.30
Sprout	10	15.07	14.83	14.59	31.71	32.18	32.21	0.53	0.70	0.95
TaoVA-100x	10	50.02	39.78	36.70	55.54	60.29	55.87	0.65	0.90	1.59
TCP Vegas	10	14.34	15.52	16.82	33.54	35.51	36.26	0.56	0.61	0.81
Verus	10	54.57	37.24	31.96	58.86	66.50	66.01	0.63	0.65	1.47
Copa	10	49.70	28.86	27.67	34.57	35.99	37.54	0.63	0.76	1.28
Indigo	4	53.75	34.79	28.36	36.37	38.54	38.88	0.99	1.07	1.42
Indigo-calib	10	54.37	36.10	30.95	37.76	43.75	43.90	0.87	1.08	1.28

Run 1: Statistics of TCP BBR

```
Start at: 2017-12-05 19:12:31
End at: 2017-12-05 19:13:01
Local clock offset: -0.675 ms
Remote clock offset: -2.782 ms

# Below is generated by plot.py at 2017-12-06 01:56:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.51 Mbit/s
95th percentile per-packet one-way delay: 69.592 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 55.90 Mbit/s
95th percentile per-packet one-way delay: 69.453 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 47.69 Mbit/s
95th percentile per-packet one-way delay: 50.056 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 23.64 Mbit/s
95th percentile per-packet one-way delay: 73.287 ms
Loss rate: 1.07%
```

Run 1: Report of TCP BBR — Data Link

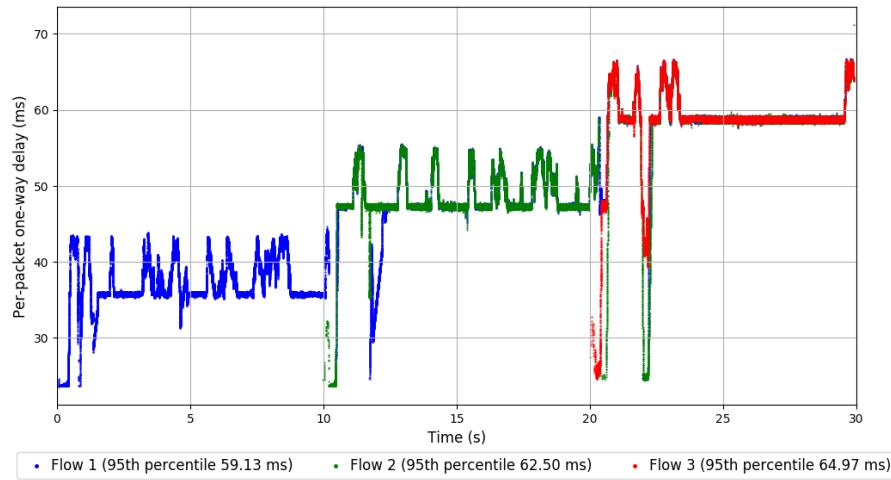
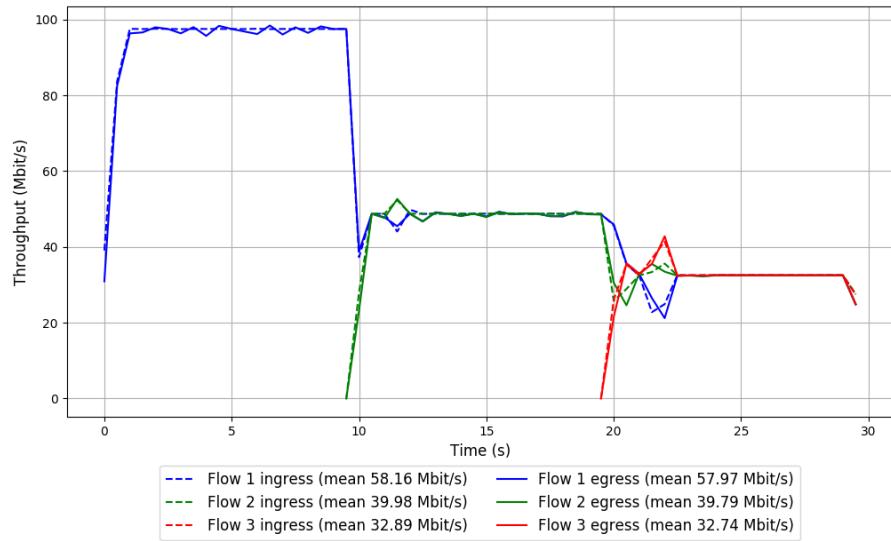


Run 2: Statistics of TCP BBR

```
Start at: 2017-12-05 19:32:14
End at: 2017-12-05 19:32:44
Local clock offset: -0.674 ms
Remote clock offset: -3.001 ms

# Below is generated by plot.py at 2017-12-06 01:56:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.33 Mbit/s
95th percentile per-packet one-way delay: 60.985 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 57.97 Mbit/s
95th percentile per-packet one-way delay: 59.135 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 39.79 Mbit/s
95th percentile per-packet one-way delay: 62.500 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 32.74 Mbit/s
95th percentile per-packet one-way delay: 64.971 ms
Loss rate: 1.02%
```

Run 2: Report of TCP BBR — Data Link

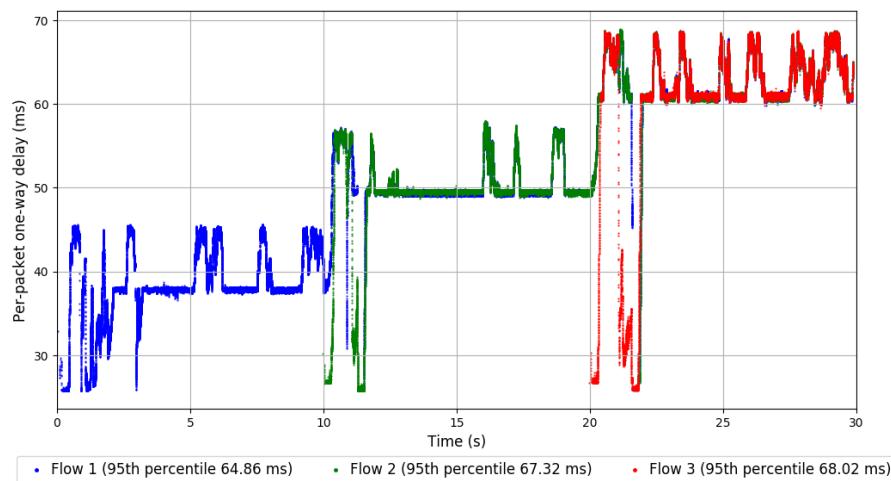
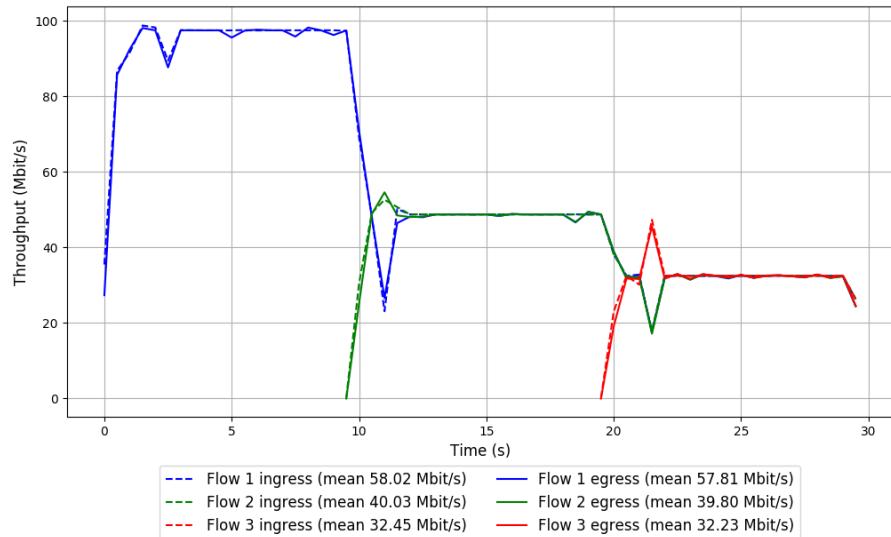


Run 3: Statistics of TCP BBR

```
Start at: 2017-12-05 19:52:08
End at: 2017-12-05 19:52:38
Local clock offset: -0.618 ms
Remote clock offset: -4.483 ms

# Below is generated by plot.py at 2017-12-06 01:56:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.05 Mbit/s
95th percentile per-packet one-way delay: 66.903 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 57.81 Mbit/s
95th percentile per-packet one-way delay: 64.861 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 39.80 Mbit/s
95th percentile per-packet one-way delay: 67.324 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 32.23 Mbit/s
95th percentile per-packet one-way delay: 68.024 ms
Loss rate: 1.39%
```

Run 3: Report of TCP BBR — Data Link

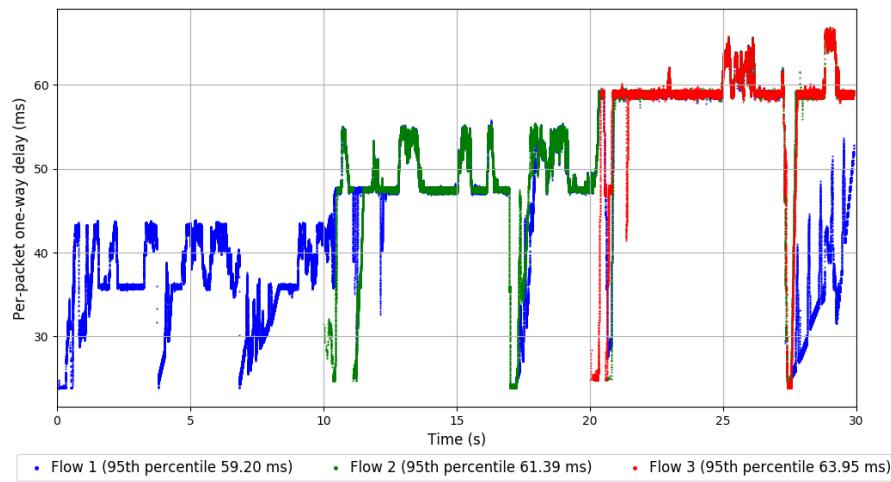
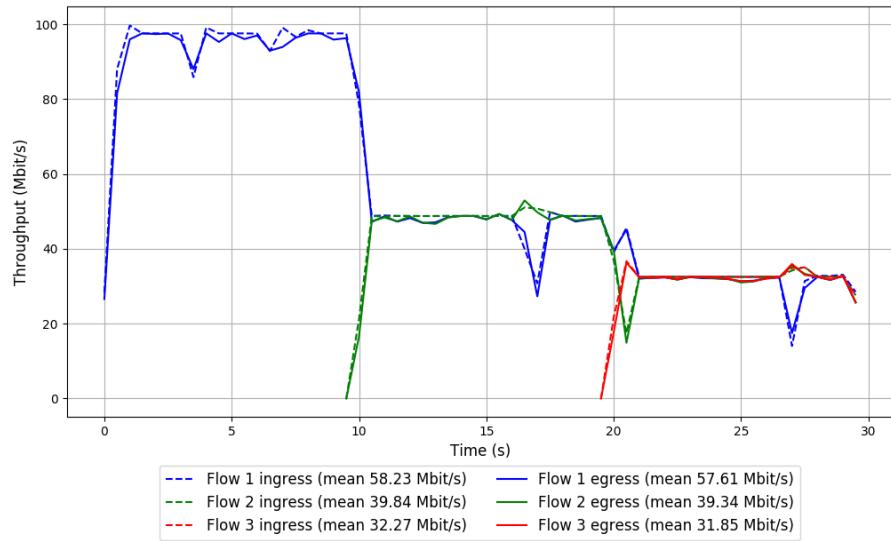


Run 4: Statistics of TCP BBR

```
Start at: 2017-12-05 20:11:48
End at: 2017-12-05 20:12:18
Local clock offset: -0.618 ms
Remote clock offset: -1.899 ms

# Below is generated by plot.py at 2017-12-06 01:56:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.39 Mbit/s
95th percentile per-packet one-way delay: 59.732 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 57.61 Mbit/s
95th percentile per-packet one-way delay: 59.201 ms
Loss rate: 1.30%
-- Flow 2:
Average throughput: 39.34 Mbit/s
95th percentile per-packet one-way delay: 61.388 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 31.85 Mbit/s
95th percentile per-packet one-way delay: 63.955 ms
Loss rate: 1.98%
```

Run 4: Report of TCP BBR — Data Link

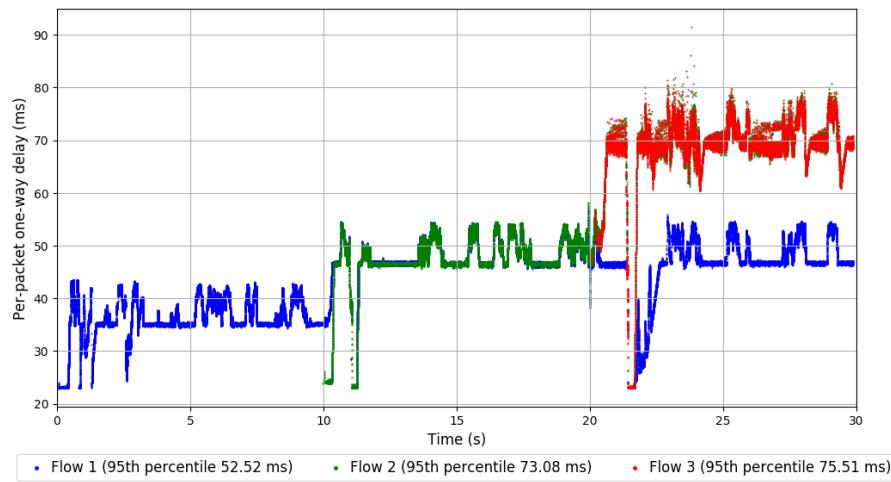
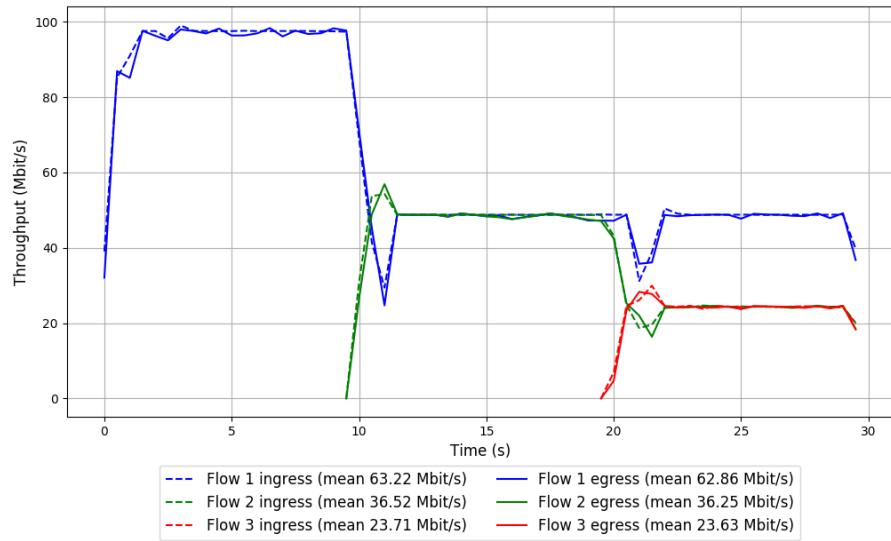


Run 5: Statistics of TCP BBR

```
Start at: 2017-12-05 20:31:43
End at: 2017-12-05 20:32:13
Local clock offset: -0.674 ms
Remote clock offset: -1.381 ms

# Below is generated by plot.py at 2017-12-06 01:56:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.86 Mbit/s
95th percentile per-packet one-way delay: 70.259 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 62.86 Mbit/s
95th percentile per-packet one-way delay: 52.525 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 36.25 Mbit/s
95th percentile per-packet one-way delay: 73.077 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 23.63 Mbit/s
95th percentile per-packet one-way delay: 75.508 ms
Loss rate: 1.28%
```

Run 5: Report of TCP BBR — Data Link

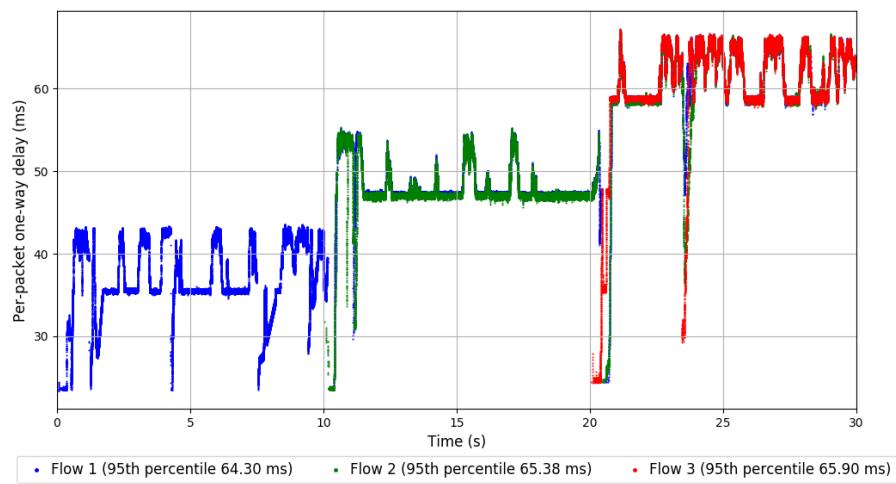
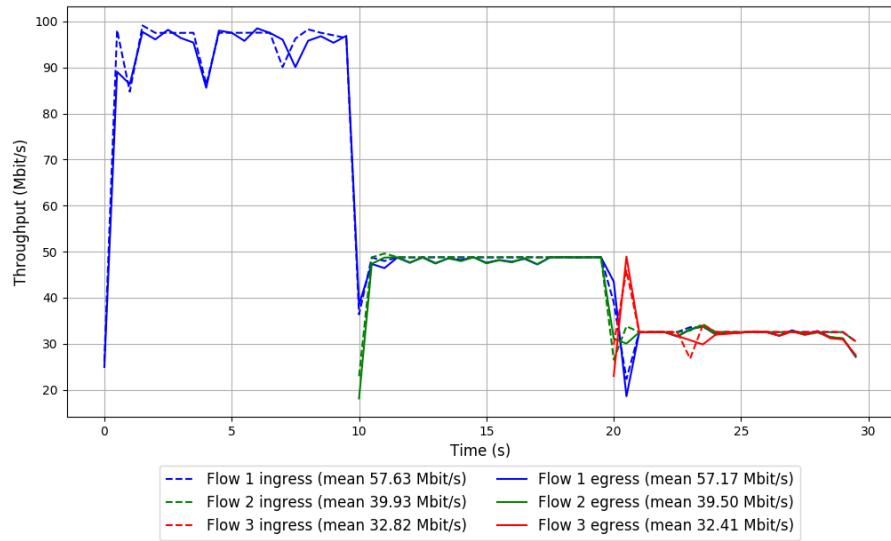


Run 6: Statistics of TCP BBR

```
Start at: 2017-12-05 20:51:19
End at: 2017-12-05 20:51:49
Local clock offset: -0.78 ms
Remote clock offset: -2.397 ms

# Below is generated by plot.py at 2017-12-06 01:56:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.18 Mbit/s
95th percentile per-packet one-way delay: 65.294 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 57.17 Mbit/s
95th percentile per-packet one-way delay: 64.298 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 39.50 Mbit/s
95th percentile per-packet one-way delay: 65.377 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 32.41 Mbit/s
95th percentile per-packet one-way delay: 65.903 ms
Loss rate: 1.95%
```

Run 6: Report of TCP BBR — Data Link

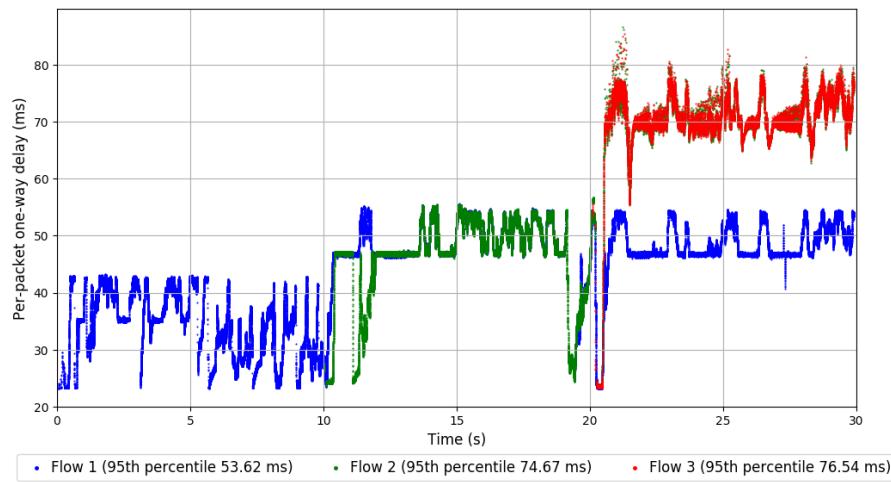
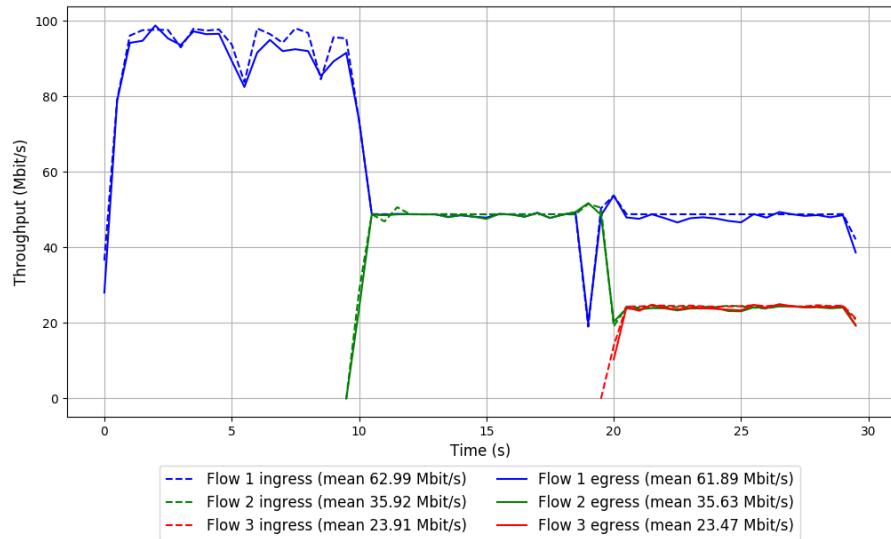


Run 7: Statistics of TCP BBR

```
Start at: 2017-12-05 21:11:24
End at: 2017-12-05 21:11:54
Local clock offset: -0.679 ms
Remote clock offset: -2.628 ms

# Below is generated by plot.py at 2017-12-06 01:56:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.38 Mbit/s
95th percentile per-packet one-way delay: 72.160 ms
Loss rate: 1.83%
-- Flow 1:
Average throughput: 61.89 Mbit/s
95th percentile per-packet one-way delay: 53.624 ms
Loss rate: 1.96%
-- Flow 2:
Average throughput: 35.63 Mbit/s
95th percentile per-packet one-way delay: 74.667 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 23.47 Mbit/s
95th percentile per-packet one-way delay: 76.539 ms
Loss rate: 2.64%
```

Run 7: Report of TCP BBR — Data Link

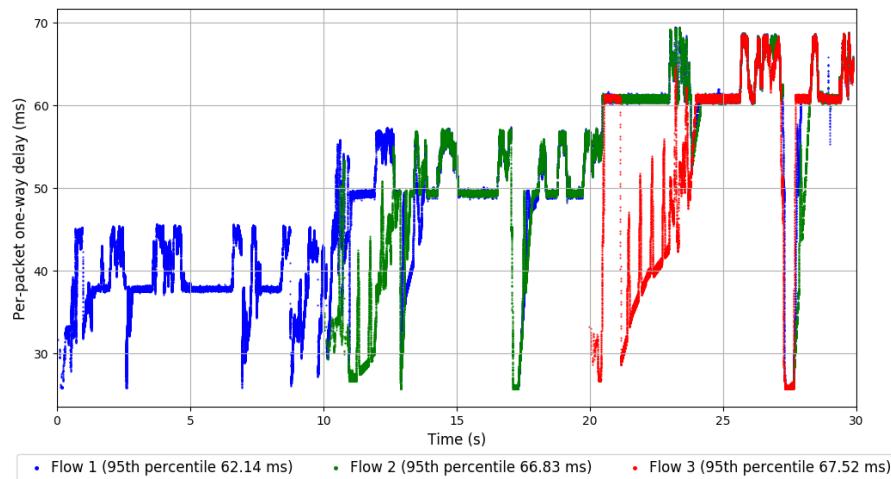
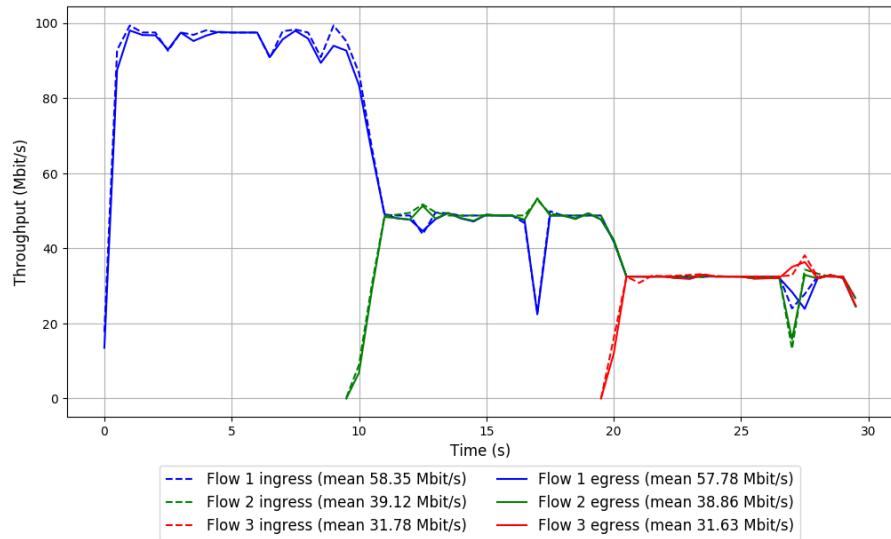


Run 8: Statistics of TCP BBR

```
Start at: 2017-12-05 21:31:12
End at: 2017-12-05 21:31:42
Local clock offset: -0.569 ms
Remote clock offset: -5.958 ms

# Below is generated by plot.py at 2017-12-06 01:56:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.18 Mbit/s
95th percentile per-packet one-way delay: 65.597 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 57.78 Mbit/s
95th percentile per-packet one-way delay: 62.144 ms
Loss rate: 1.24%
-- Flow 2:
Average throughput: 38.86 Mbit/s
95th percentile per-packet one-way delay: 66.831 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 31.63 Mbit/s
95th percentile per-packet one-way delay: 67.518 ms
Loss rate: 1.24%
```

Run 8: Report of TCP BBR — Data Link

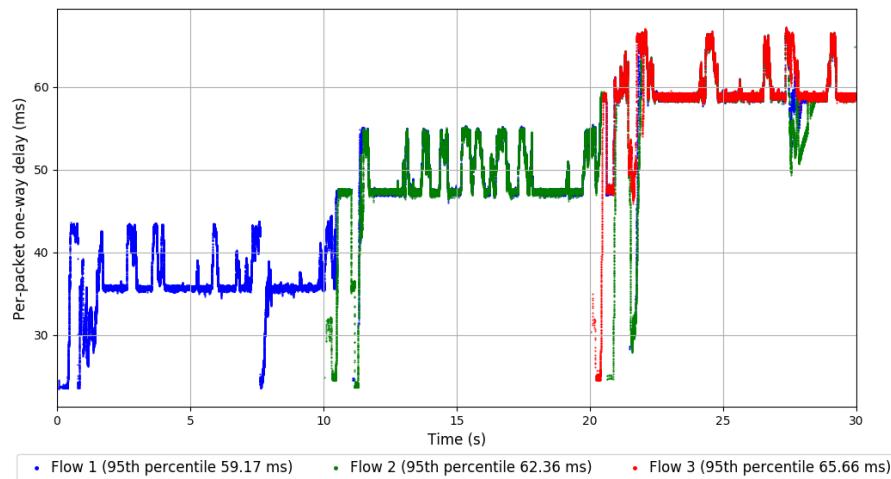
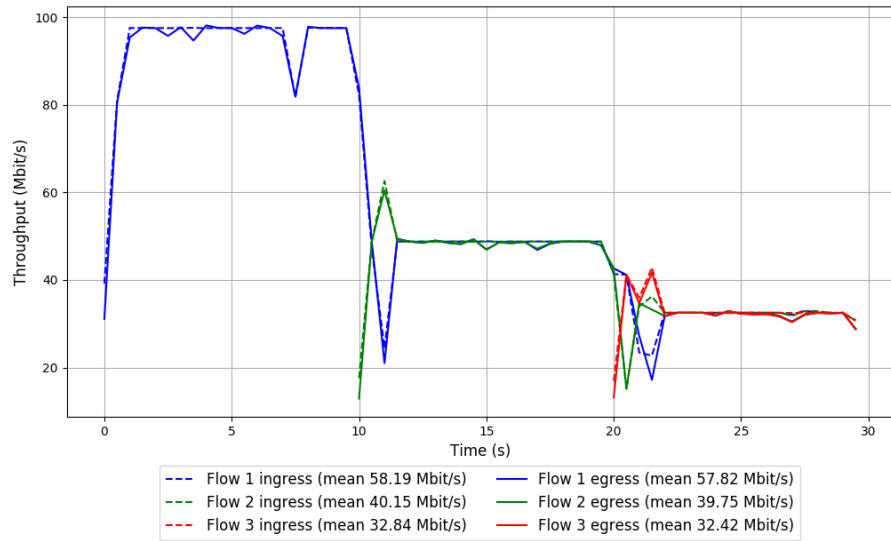


Run 9: Statistics of TCP BBR

```
Start at: 2017-12-05 21:51:00
End at: 2017-12-05 21:51:30
Local clock offset: -0.427 ms
Remote clock offset: -3.61 ms

# Below is generated by plot.py at 2017-12-06 01:58:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.98 Mbit/s
95th percentile per-packet one-way delay: 61.991 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 57.82 Mbit/s
95th percentile per-packet one-way delay: 59.168 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 39.75 Mbit/s
95th percentile per-packet one-way delay: 62.356 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 32.42 Mbit/s
95th percentile per-packet one-way delay: 65.660 ms
Loss rate: 2.03%
```

Run 9: Report of TCP BBR — Data Link

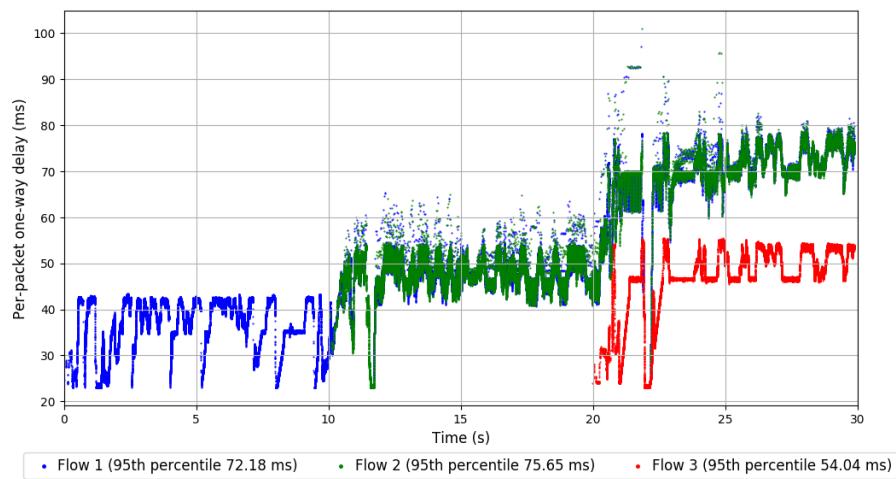
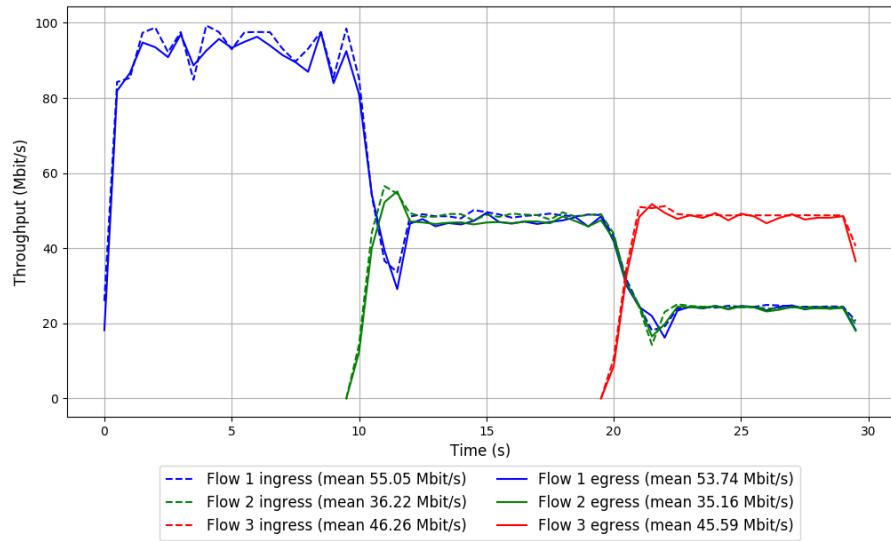


Run 10: Statistics of TCP BBR

```
Start at: 2017-12-05 22:11:04
End at: 2017-12-05 22:11:34
Local clock offset: -0.383 ms
Remote clock offset: -2.019 ms

# Below is generated by plot.py at 2017-12-06 01:58:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.29 Mbit/s
95th percentile per-packet one-way delay: 73.102 ms
Loss rate: 2.69%
-- Flow 1:
Average throughput: 53.74 Mbit/s
95th percentile per-packet one-way delay: 72.184 ms
Loss rate: 2.64%
-- Flow 2:
Average throughput: 35.16 Mbit/s
95th percentile per-packet one-way delay: 75.649 ms
Loss rate: 3.19%
-- Flow 3:
Average throughput: 45.59 Mbit/s
95th percentile per-packet one-way delay: 54.042 ms
Loss rate: 2.10%
```

Run 10: Report of TCP BBR — Data Link

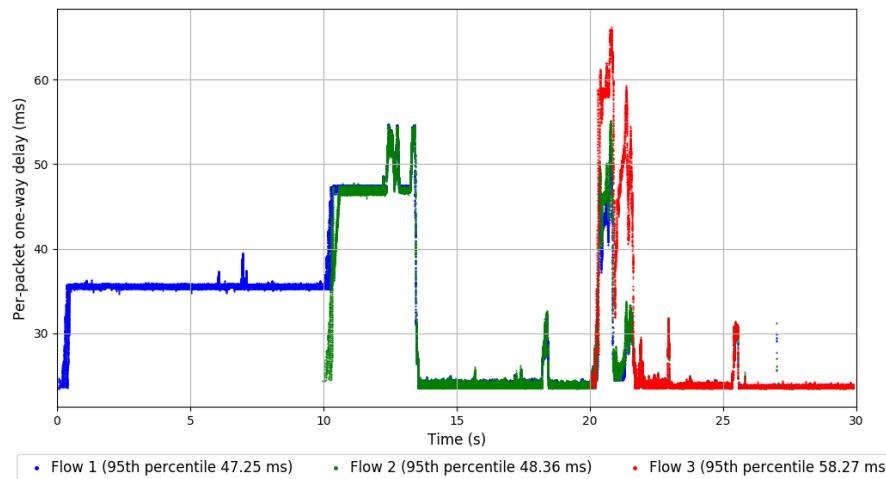
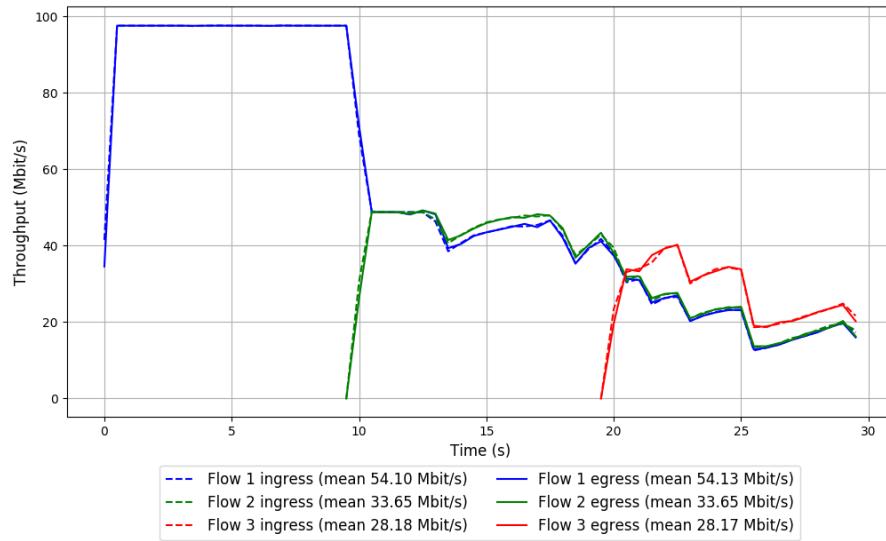


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2017-12-05 18:55:40
End at: 2017-12-05 18:56:10
Local clock offset: -0.733 ms
Remote clock offset: -3.086 ms

# Below is generated by plot.py at 2017-12-06 01:58:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.90 Mbit/s
95th percentile per-packet one-way delay: 47.378 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 54.13 Mbit/s
95th percentile per-packet one-way delay: 47.252 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 33.65 Mbit/s
95th percentile per-packet one-way delay: 48.358 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 28.17 Mbit/s
95th percentile per-packet one-way delay: 58.272 ms
Loss rate: 0.56%
```

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

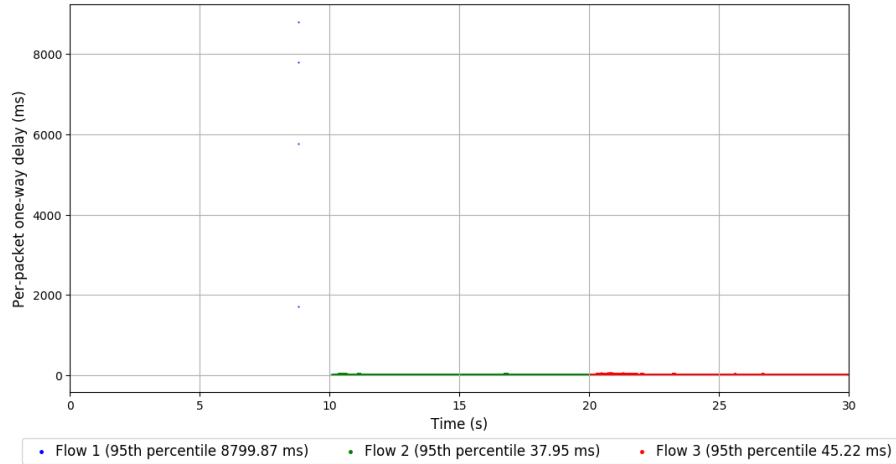
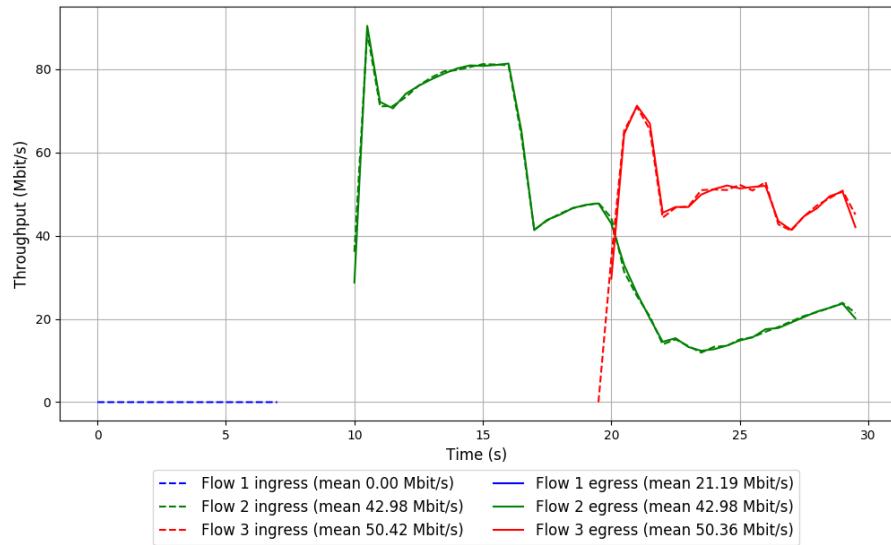
Start at: 2017-12-05 19:15:24

End at: 2017-12-05 19:15:54

Local clock offset: -0.591 ms

Remote clock offset: -5.369 ms

Run 2: Report of TCP Cubic — Data Link

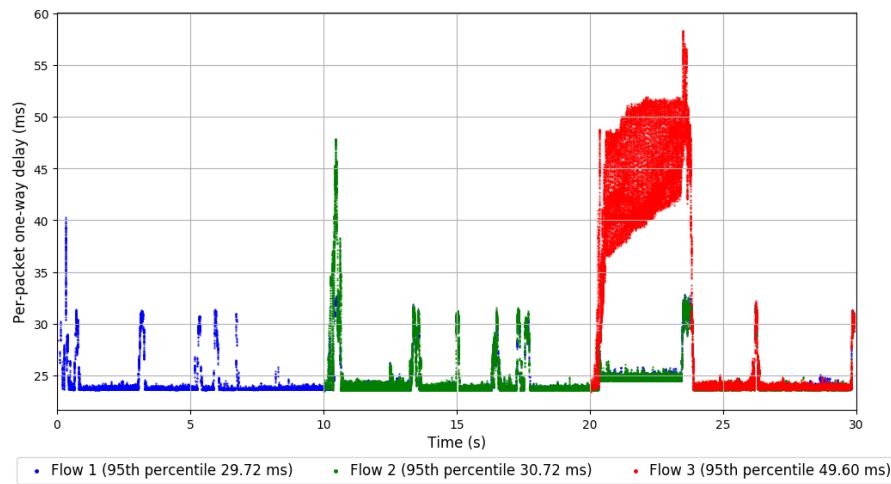
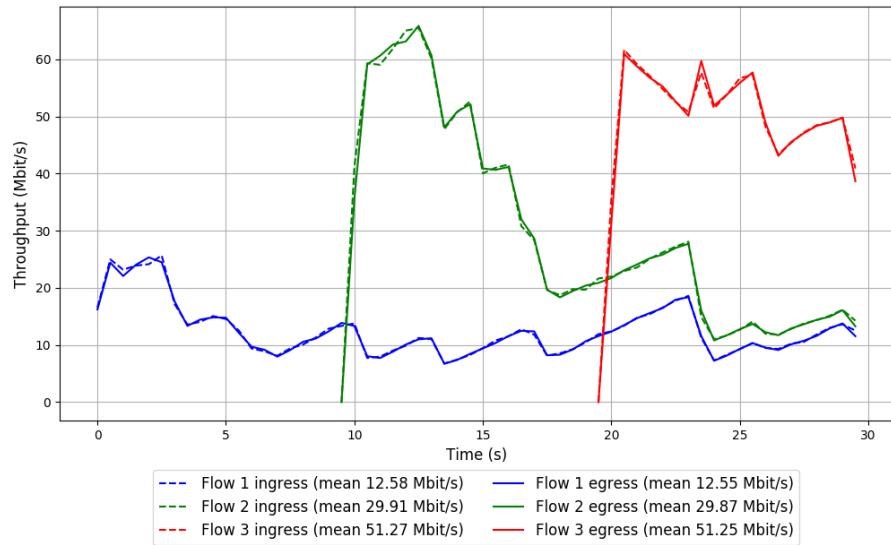


Run 3: Statistics of TCP Cubic

```
Start at: 2017-12-05 19:35:02
End at: 2017-12-05 19:35:32
Local clock offset: -0.661 ms
Remote clock offset: -2.916 ms

# Below is generated by plot.py at 2017-12-06 01:58:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.45 Mbit/s
95th percentile per-packet one-way delay: 45.854 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 12.55 Mbit/s
95th percentile per-packet one-way delay: 29.716 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 29.87 Mbit/s
95th percentile per-packet one-way delay: 30.719 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 51.25 Mbit/s
95th percentile per-packet one-way delay: 49.600 ms
Loss rate: 0.55%
```

Run 3: Report of TCP Cubic — Data Link

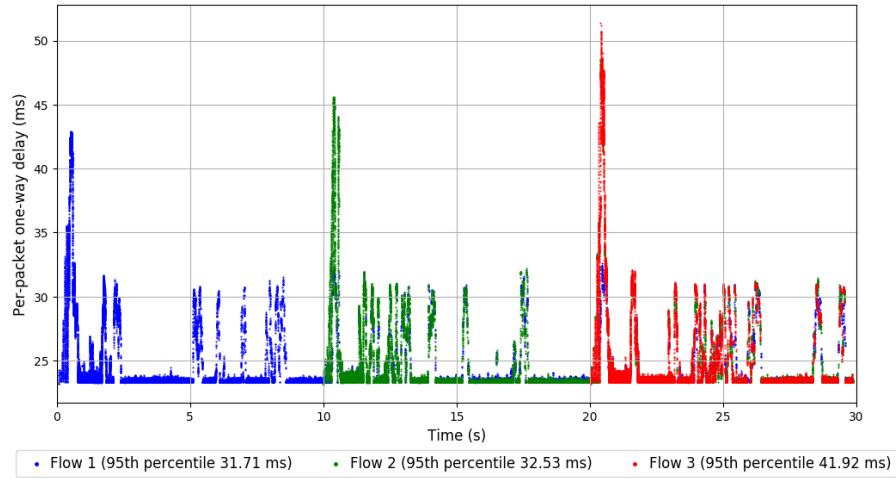
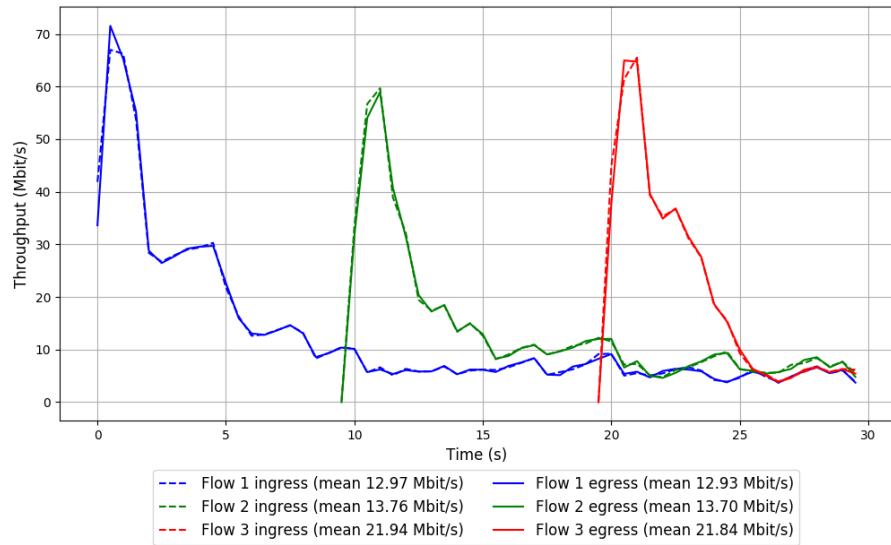


Run 4: Statistics of TCP Cubic

```
Start at: 2017-12-05 19:55:01
End at: 2017-12-05 19:55:31
Local clock offset: -0.599 ms
Remote clock offset: -1.868 ms

# Below is generated by plot.py at 2017-12-06 01:58:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 29.30 Mbit/s
95th percentile per-packet one-way delay: 33.852 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 12.93 Mbit/s
95th percentile per-packet one-way delay: 31.712 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 13.70 Mbit/s
95th percentile per-packet one-way delay: 32.529 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 21.84 Mbit/s
95th percentile per-packet one-way delay: 41.916 ms
Loss rate: 0.96%
```

Run 4: Report of TCP Cubic — Data Link

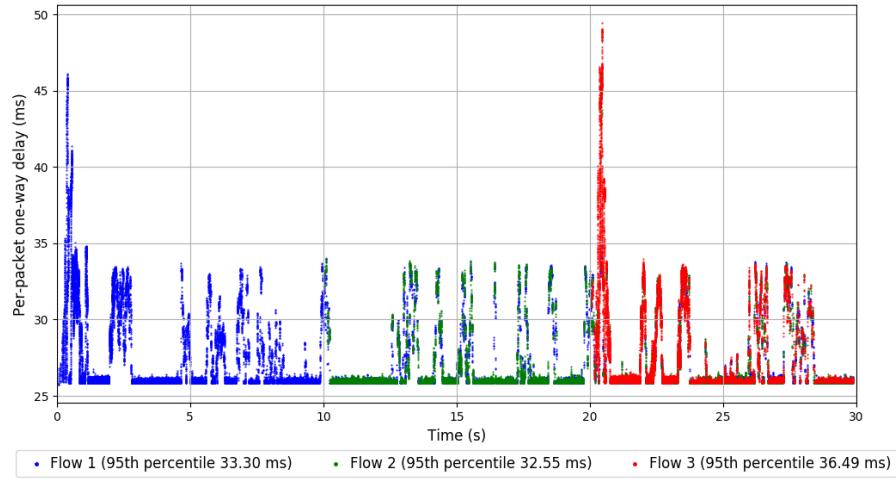
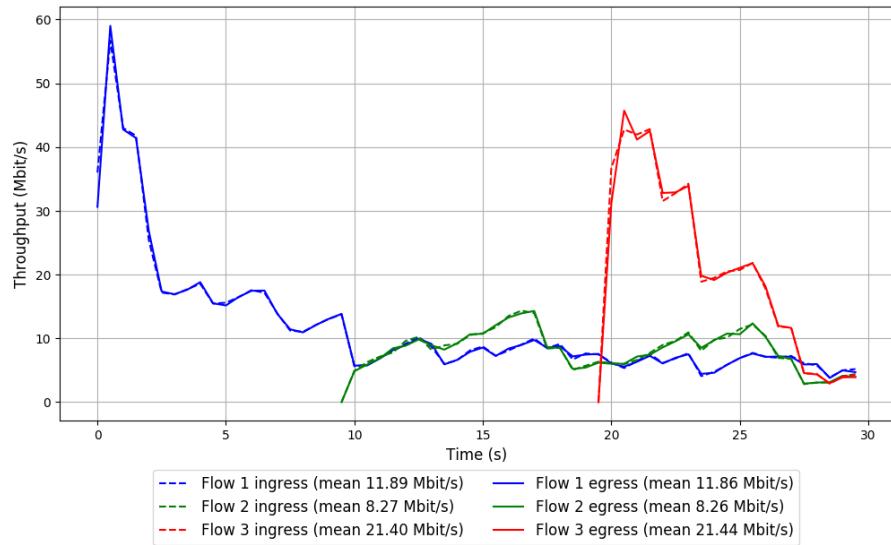


Run 5: Statistics of TCP Cubic

```
Start at: 2017-12-05 20:14:42
End at: 2017-12-05 20:15:12
Local clock offset: -0.623 ms
Remote clock offset: -3.931 ms

# Below is generated by plot.py at 2017-12-06 01:58:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.46 Mbit/s
95th percentile per-packet one-way delay: 33.252 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 11.86 Mbit/s
95th percentile per-packet one-way delay: 33.300 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 8.26 Mbit/s
95th percentile per-packet one-way delay: 32.547 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 21.44 Mbit/s
95th percentile per-packet one-way delay: 36.487 ms
Loss rate: 0.46%
```

Run 5: Report of TCP Cubic — Data Link

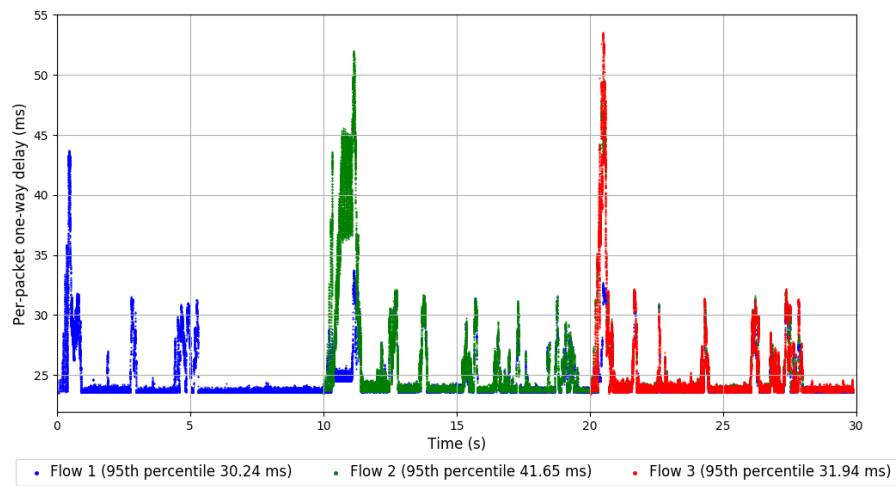
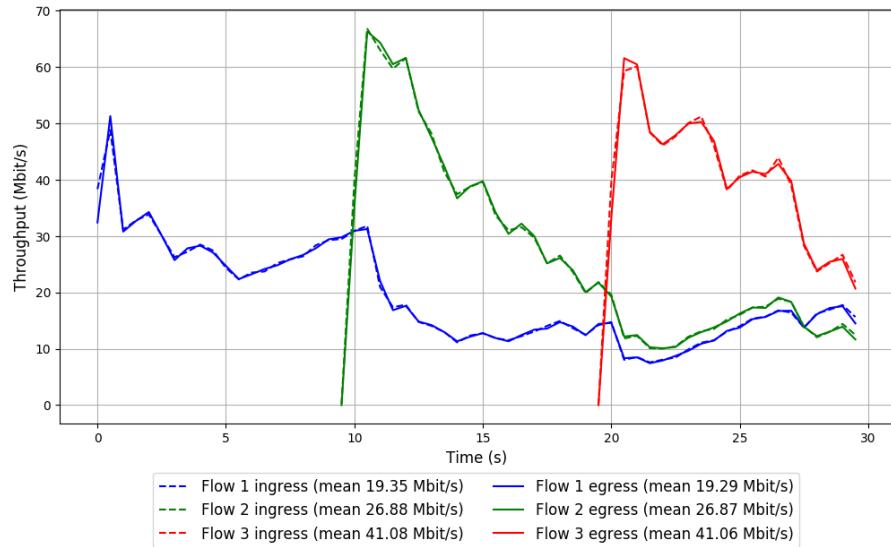


Run 6: Statistics of TCP Cubic

```
Start at: 2017-12-05 20:34:29
End at: 2017-12-05 20:34:59
Local clock offset: -0.657 ms
Remote clock offset: -2.032 ms

# Below is generated by plot.py at 2017-12-06 01:58:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 50.83 Mbit/s
95th percentile per-packet one-way delay: 35.549 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 19.29 Mbit/s
95th percentile per-packet one-way delay: 30.236 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 26.87 Mbit/s
95th percentile per-packet one-way delay: 41.647 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 41.06 Mbit/s
95th percentile per-packet one-way delay: 31.936 ms
Loss rate: 0.57%
```

Run 6: Report of TCP Cubic — Data Link

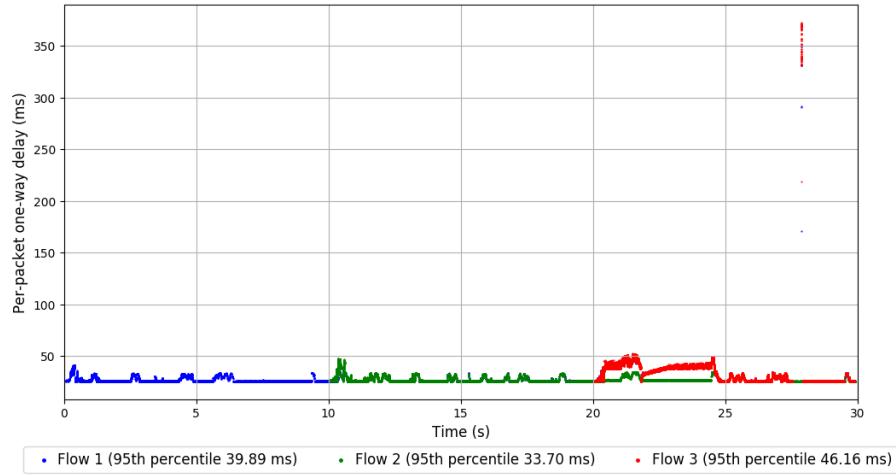
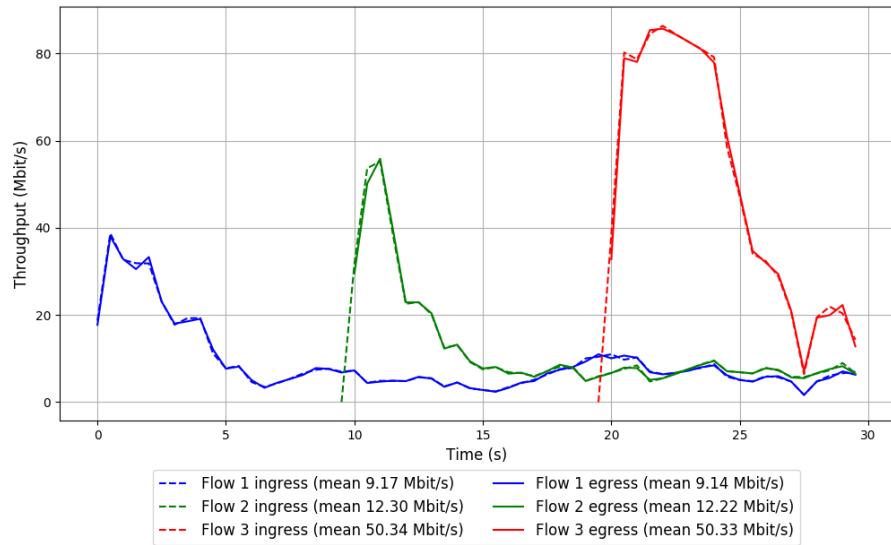


Run 7: Statistics of TCP Cubic

```
Start at: 2017-12-05 20:54:14
End at: 2017-12-05 20:54:44
Local clock offset: -0.766 ms
Remote clock offset: -4.615 ms

# Below is generated by plot.py at 2017-12-06 01:58:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.90 Mbit/s
95th percentile per-packet one-way delay: 44.568 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 9.14 Mbit/s
95th percentile per-packet one-way delay: 39.887 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 12.22 Mbit/s
95th percentile per-packet one-way delay: 33.699 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 50.33 Mbit/s
95th percentile per-packet one-way delay: 46.159 ms
Loss rate: 0.56%
```

Run 7: Report of TCP Cubic — Data Link

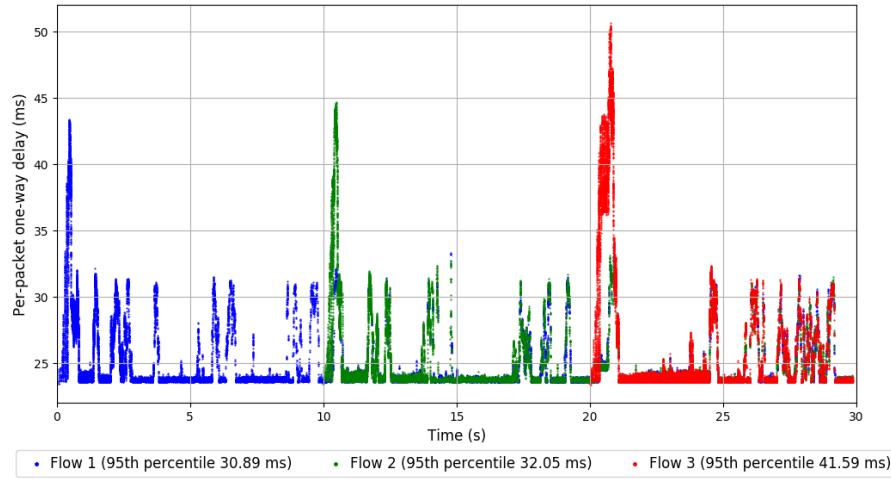
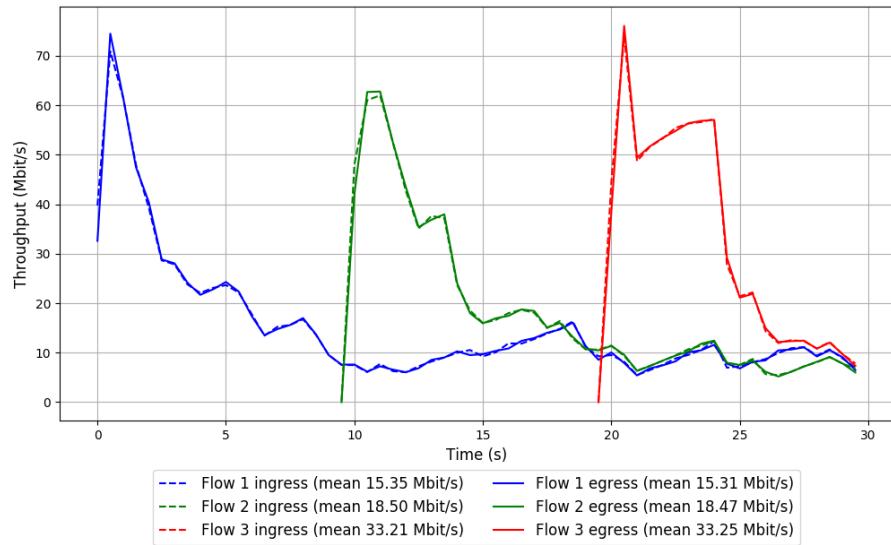


Run 8: Statistics of TCP Cubic

```
Start at: 2017-12-05 21:14:11
End at: 2017-12-05 21:14:41
Local clock offset: -0.626 ms
Remote clock offset: -3.064 ms

# Below is generated by plot.py at 2017-12-06 01:58:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.65 Mbit/s
95th percentile per-packet one-way delay: 37.411 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 15.31 Mbit/s
95th percentile per-packet one-way delay: 30.891 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 18.47 Mbit/s
95th percentile per-packet one-way delay: 32.053 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 33.25 Mbit/s
95th percentile per-packet one-way delay: 41.594 ms
Loss rate: 0.40%
```

Run 8: Report of TCP Cubic — Data Link

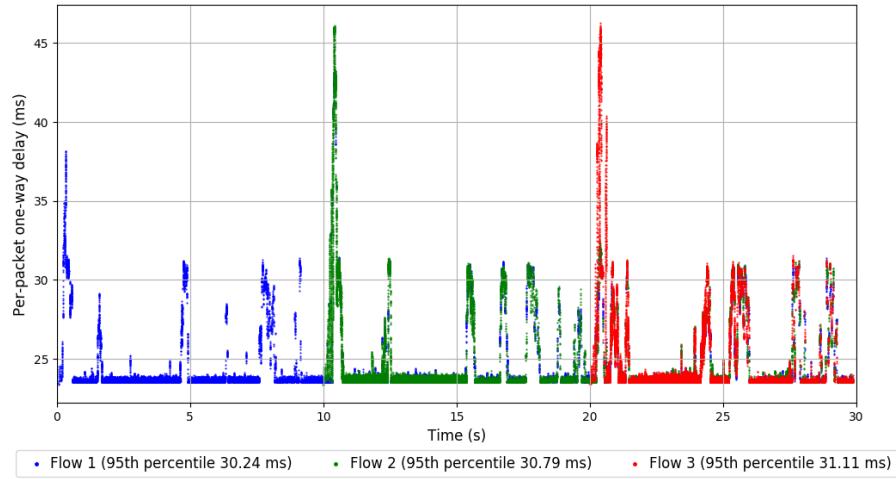
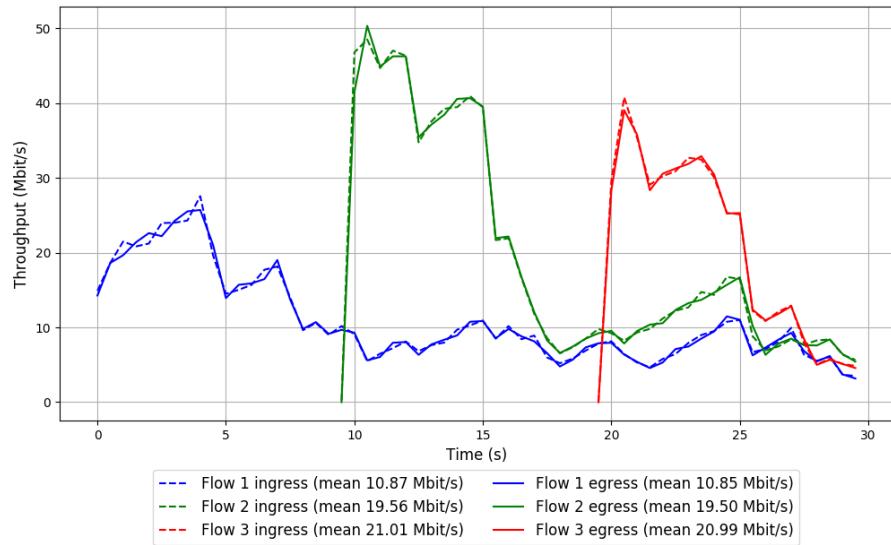


Run 9: Statistics of TCP Cubic

```
Start at: 2017-12-05 21:33:59
End at: 2017-12-05 21:34:29
Local clock offset: -0.552 ms
Remote clock offset: -3.784 ms

# Below is generated by plot.py at 2017-12-06 01:58:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.81 Mbit/s
95th percentile per-packet one-way delay: 30.654 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 10.85 Mbit/s
95th percentile per-packet one-way delay: 30.237 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 19.50 Mbit/s
95th percentile per-packet one-way delay: 30.791 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 20.99 Mbit/s
95th percentile per-packet one-way delay: 31.109 ms
Loss rate: 0.61%
```

Run 9: Report of TCP Cubic — Data Link

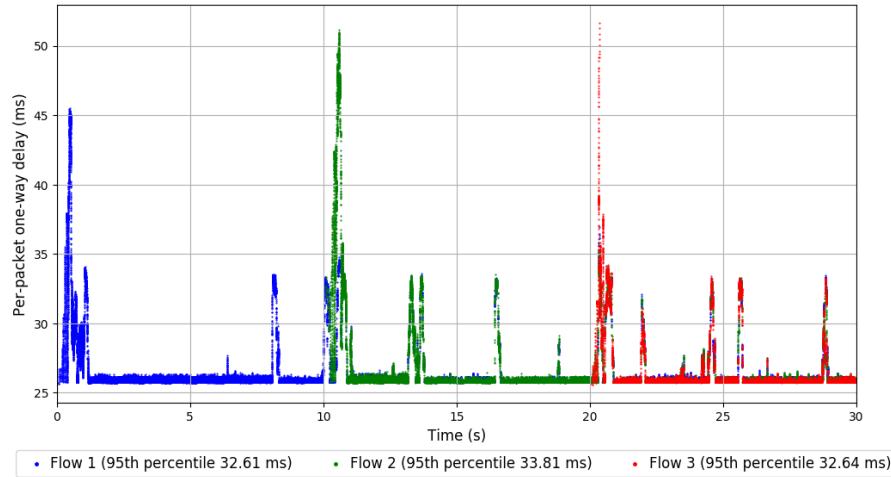
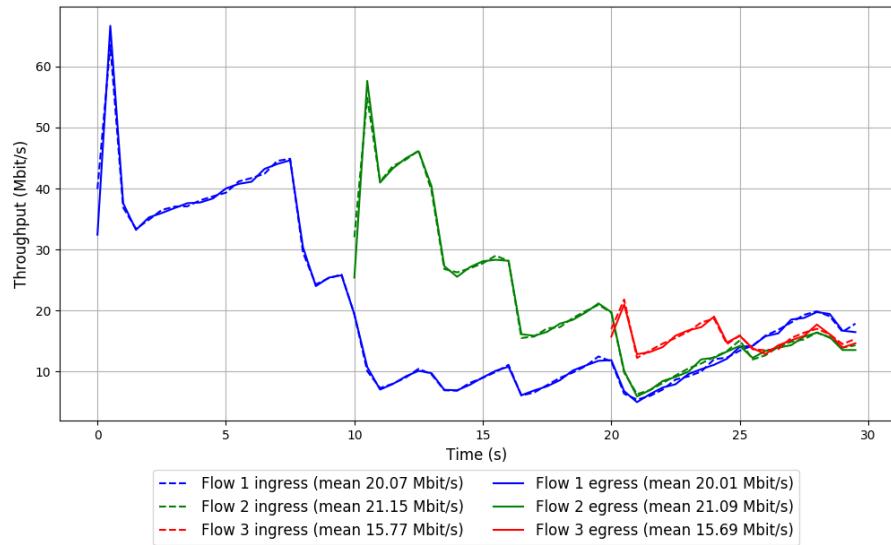


```
Run 10: Statistics of TCP Cubic
```

```
Start at: 2017-12-05 21:53:47
End at: 2017-12-05 21:54:17
Local clock offset: -0.338 ms
Remote clock offset: -5.515 ms

# Below is generated by plot.py at 2017-12-06 01:58:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.23 Mbit/s
95th percentile per-packet one-way delay: 32.940 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 20.01 Mbit/s
95th percentile per-packet one-way delay: 32.607 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 21.09 Mbit/s
95th percentile per-packet one-way delay: 33.810 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 15.69 Mbit/s
95th percentile per-packet one-way delay: 32.639 ms
Loss rate: 1.04%
```

Run 10: Report of TCP Cubic — Data Link

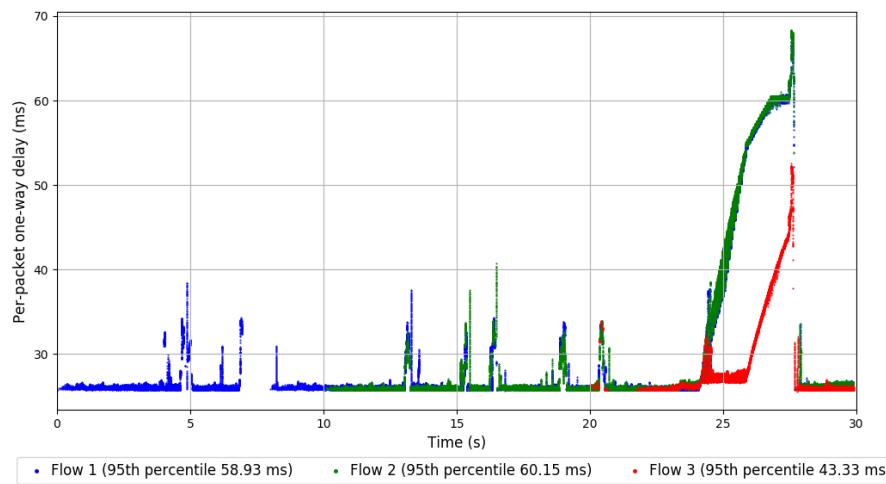
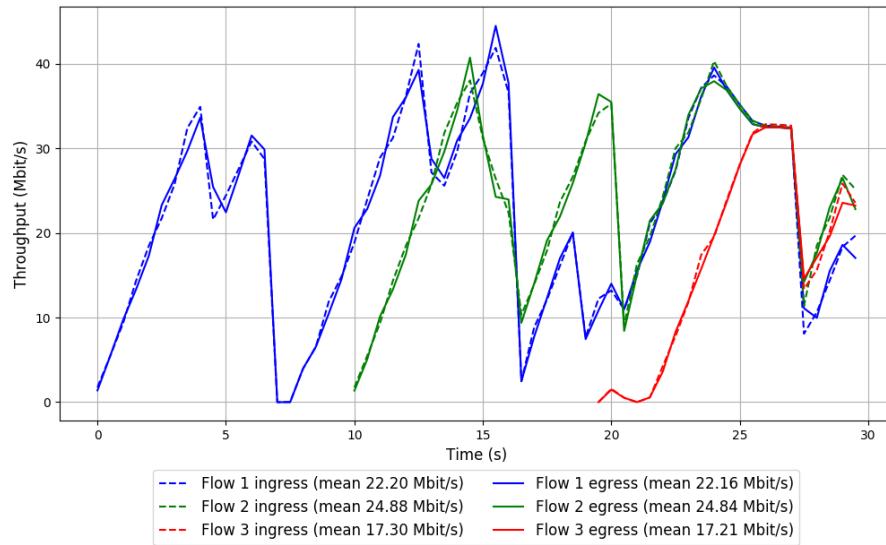


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2017-12-05 19:00:00
End at: 2017-12-05 19:00:30
Local clock offset: -0.628 ms
Remote clock offset: -5.268 ms

# Below is generated by plot.py at 2017-12-06 01:58:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 44.35 Mbit/s
95th percentile per-packet one-way delay: 59.089 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 22.16 Mbit/s
95th percentile per-packet one-way delay: 58.932 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 24.84 Mbit/s
95th percentile per-packet one-way delay: 60.150 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 17.21 Mbit/s
95th percentile per-packet one-way delay: 43.332 ms
Loss rate: 1.02%
```

Run 1: Report of LEDBAT — Data Link

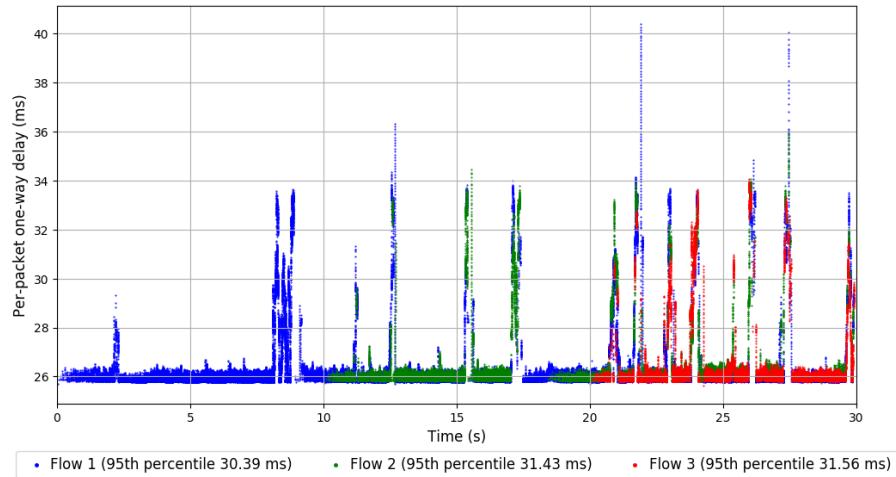
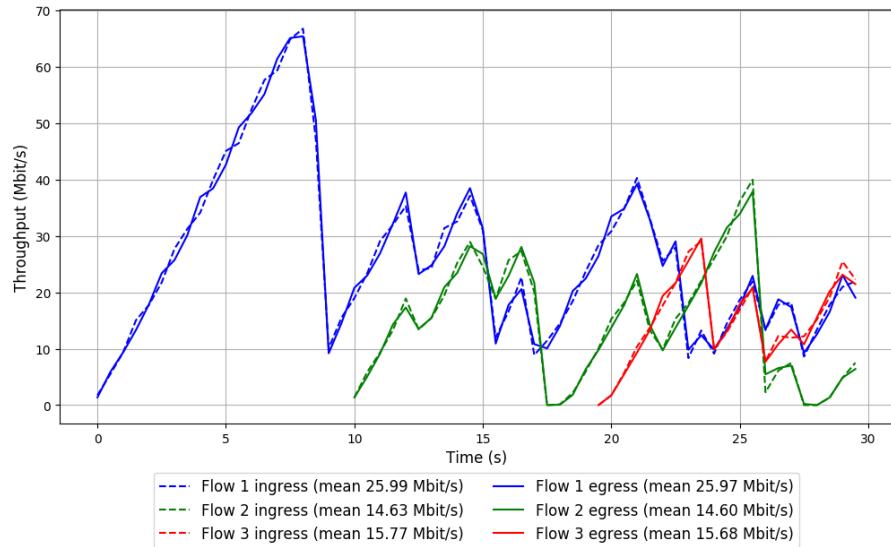


Run 2: Statistics of LEDBAT

```
Start at: 2017-12-05 19:19:39
End at: 2017-12-05 19:20:09
Local clock offset: -0.57 ms
Remote clock offset: -5.245 ms

# Below is generated by plot.py at 2017-12-06 01:58:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.84 Mbit/s
95th percentile per-packet one-way delay: 30.953 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 25.97 Mbit/s
95th percentile per-packet one-way delay: 30.394 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 14.60 Mbit/s
95th percentile per-packet one-way delay: 31.433 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 15.68 Mbit/s
95th percentile per-packet one-way delay: 31.564 ms
Loss rate: 1.11%
```

Run 2: Report of LEDBAT — Data Link

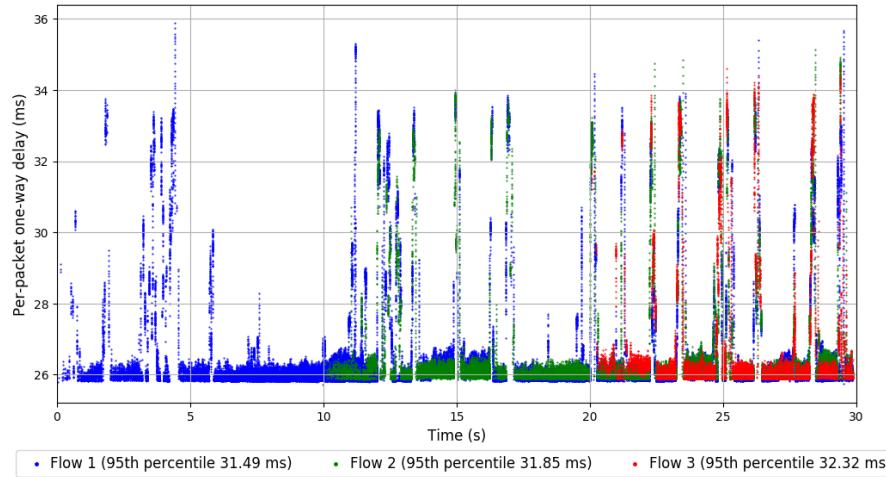
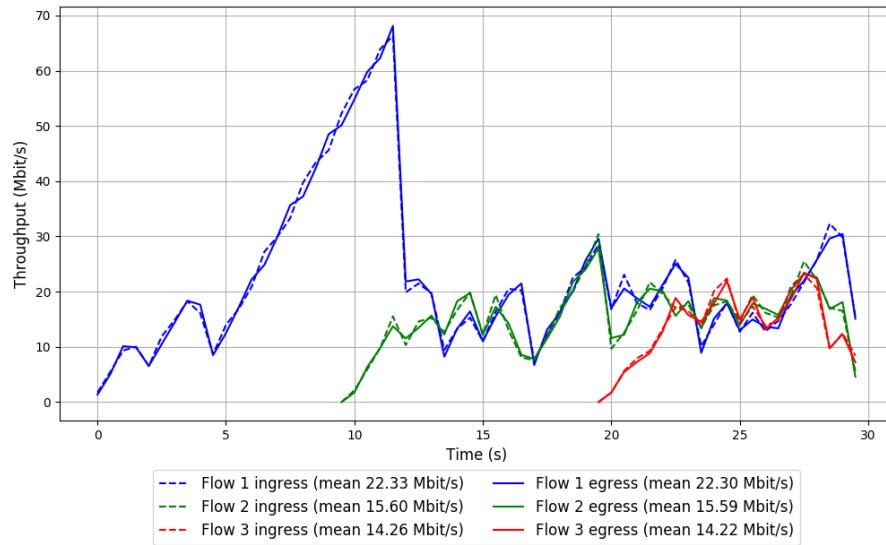


Run 3: Statistics of LEDBAT

```
Start at: 2017-12-05 19:39:20
End at: 2017-12-05 19:39:50
Local clock offset: -0.603 ms
Remote clock offset: -5.013 ms

# Below is generated by plot.py at 2017-12-06 01:58:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.39 Mbit/s
95th percentile per-packet one-way delay: 31.697 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 22.30 Mbit/s
95th percentile per-packet one-way delay: 31.493 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 15.59 Mbit/s
95th percentile per-packet one-way delay: 31.847 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 14.22 Mbit/s
95th percentile per-packet one-way delay: 32.322 ms
Loss rate: 0.79%
```

Run 3: Report of LEDBAT — Data Link

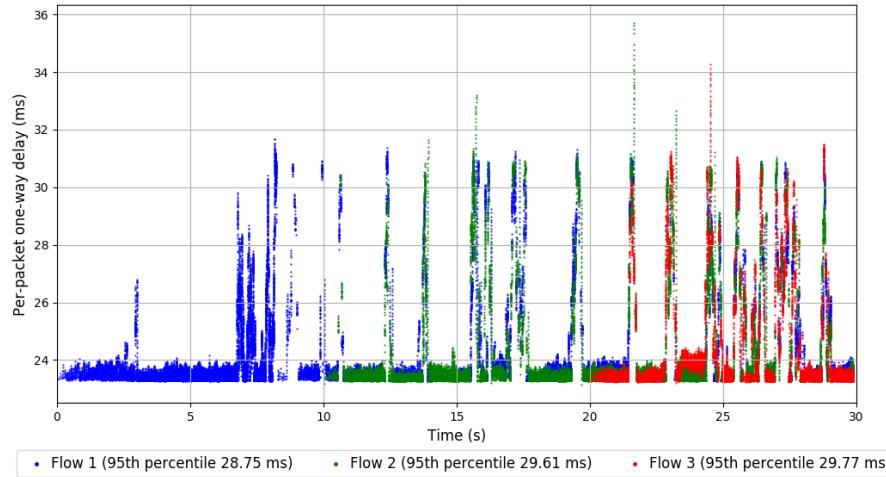
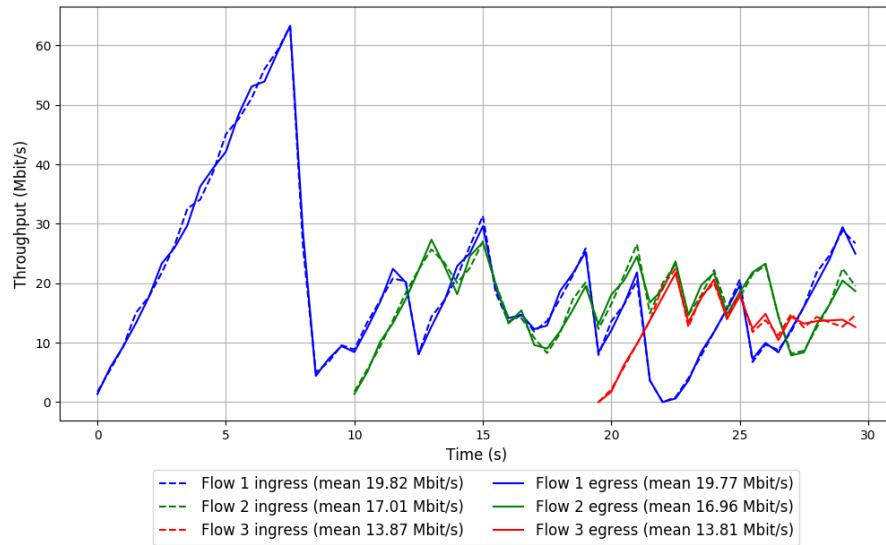


Run 4: Statistics of LEDBAT

```
Start at: 2017-12-05 19:59:21
End at: 2017-12-05 19:59:51
Local clock offset: -0.603 ms
Remote clock offset: -1.697 ms

# Below is generated by plot.py at 2017-12-06 01:58:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.61 Mbit/s
95th percentile per-packet one-way delay: 29.271 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 19.77 Mbit/s
95th percentile per-packet one-way delay: 28.745 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 16.96 Mbit/s
95th percentile per-packet one-way delay: 29.606 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 13.81 Mbit/s
95th percentile per-packet one-way delay: 29.771 ms
Loss rate: 0.91%
```

Run 4: Report of LEDBAT — Data Link

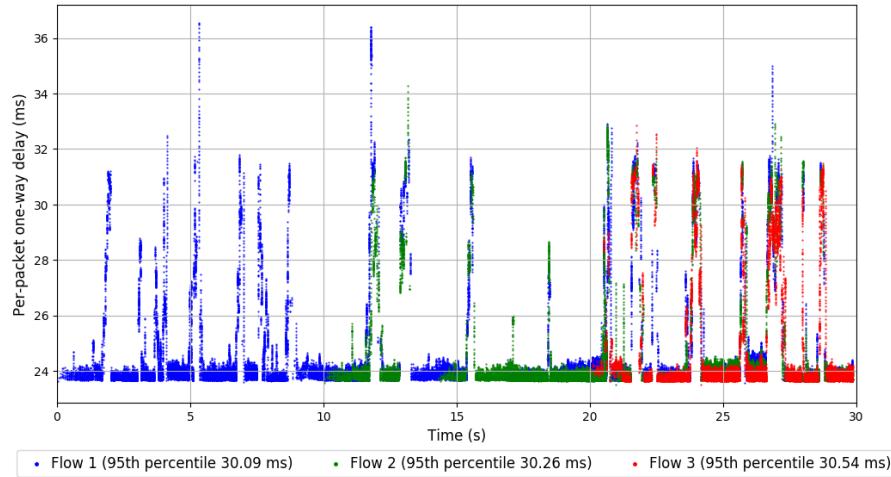
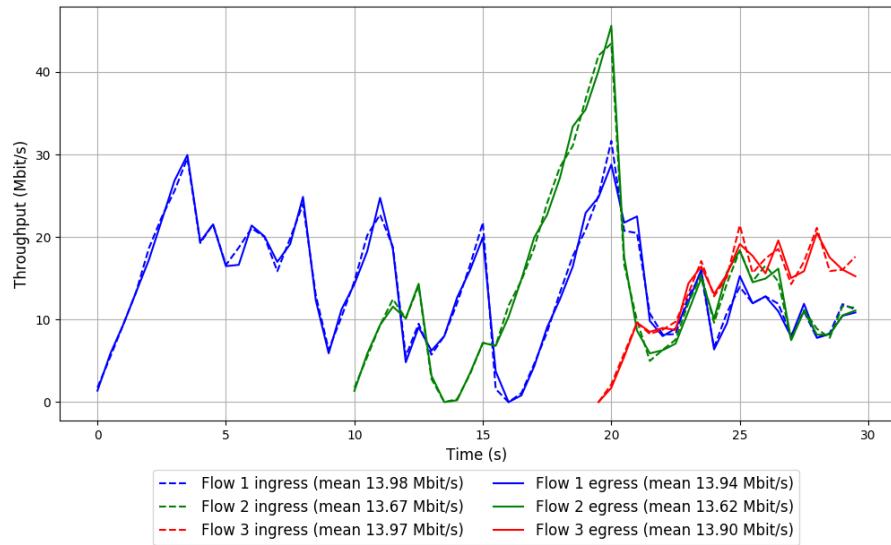


Run 5: Statistics of LEDBAT

```
Start at: 2017-12-05 20:19:04
End at: 2017-12-05 20:19:34
Local clock offset: -0.63 ms
Remote clock offset: -1.738 ms

# Below is generated by plot.py at 2017-12-06 01:58:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 27.58 Mbit/s
95th percentile per-packet one-way delay: 30.271 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 13.94 Mbit/s
95th percentile per-packet one-way delay: 30.092 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 13.62 Mbit/s
95th percentile per-packet one-way delay: 30.259 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 13.90 Mbit/s
95th percentile per-packet one-way delay: 30.541 ms
Loss rate: 1.06%
```

Run 5: Report of LEDBAT — Data Link

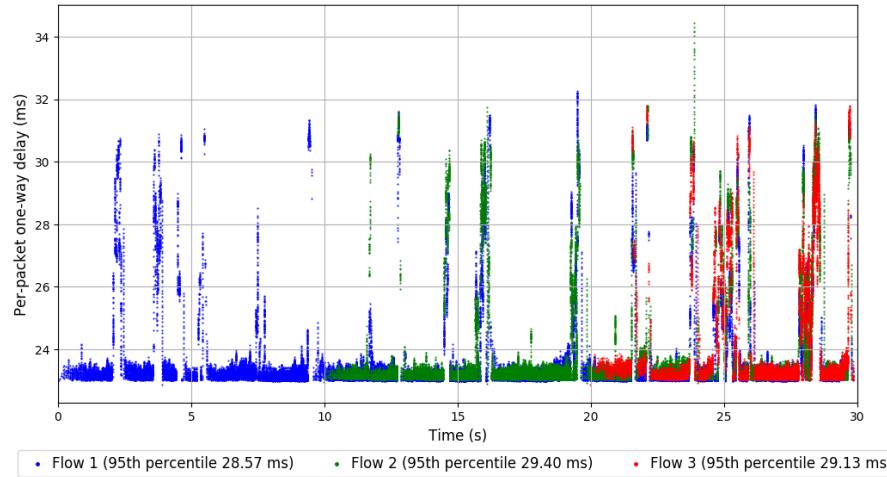
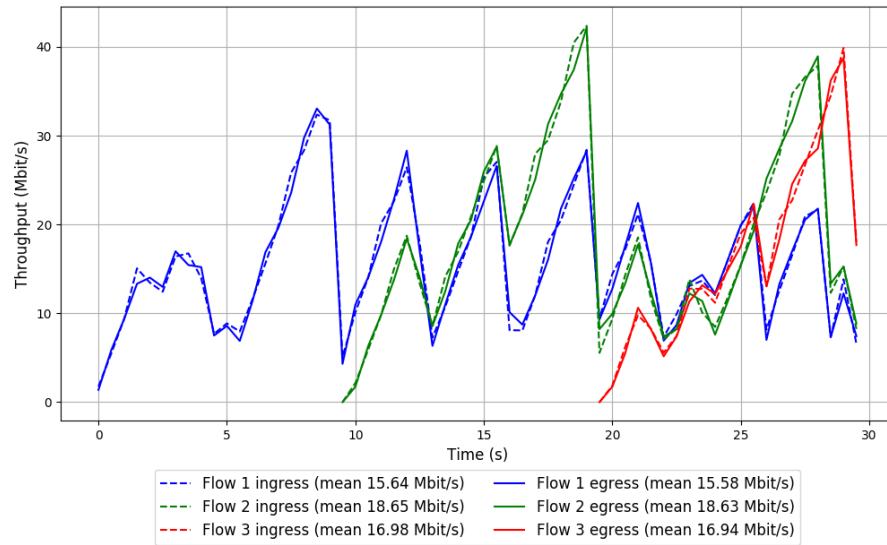


Run 6: Statistics of LEDBAT

```
Start at: 2017-12-05 20:38:45
End at: 2017-12-05 20:39:15
Local clock offset: -0.75 ms
Remote clock offset: -1.629 ms

# Below is generated by plot.py at 2017-12-06 01:58:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.59 Mbit/s
95th percentile per-packet one-way delay: 29.059 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 15.58 Mbit/s
95th percentile per-packet one-way delay: 28.575 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 18.63 Mbit/s
95th percentile per-packet one-way delay: 29.403 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 16.94 Mbit/s
95th percentile per-packet one-way delay: 29.128 ms
Loss rate: 0.74%
```

Run 6: Report of LEDBAT — Data Link

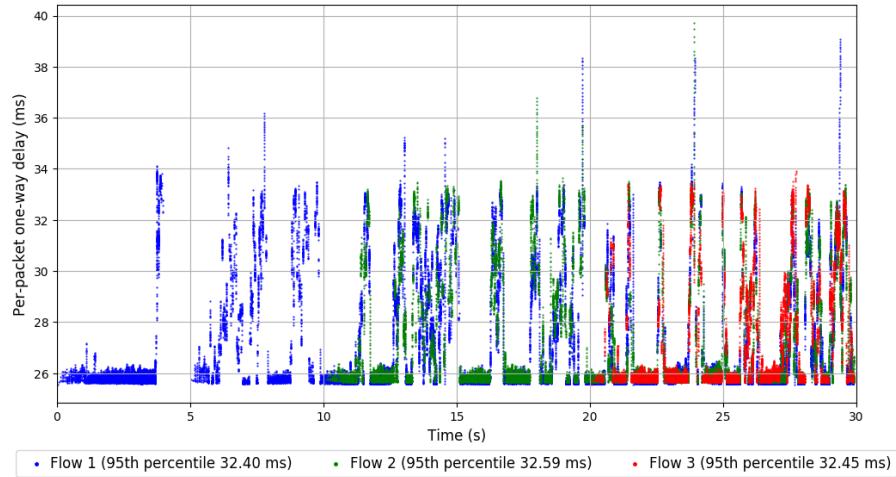
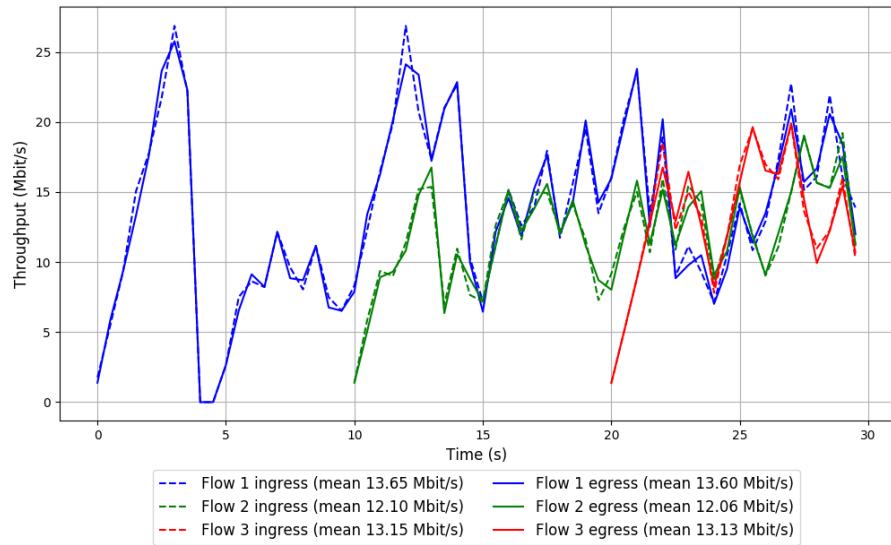


Run 7: Statistics of LEDBAT

```
Start at: 2017-12-05 20:58:41
End at: 2017-12-05 20:59:11
Local clock offset: -0.774 ms
Remote clock offset: -4.666 ms

# Below is generated by plot.py at 2017-12-06 01:58:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 25.92 Mbit/s
95th percentile per-packet one-way delay: 32.474 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 13.60 Mbit/s
95th percentile per-packet one-way delay: 32.403 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 12.06 Mbit/s
95th percentile per-packet one-way delay: 32.591 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 13.13 Mbit/s
95th percentile per-packet one-way delay: 32.451 ms
Loss rate: 0.71%
```

Run 7: Report of LEDBAT — Data Link

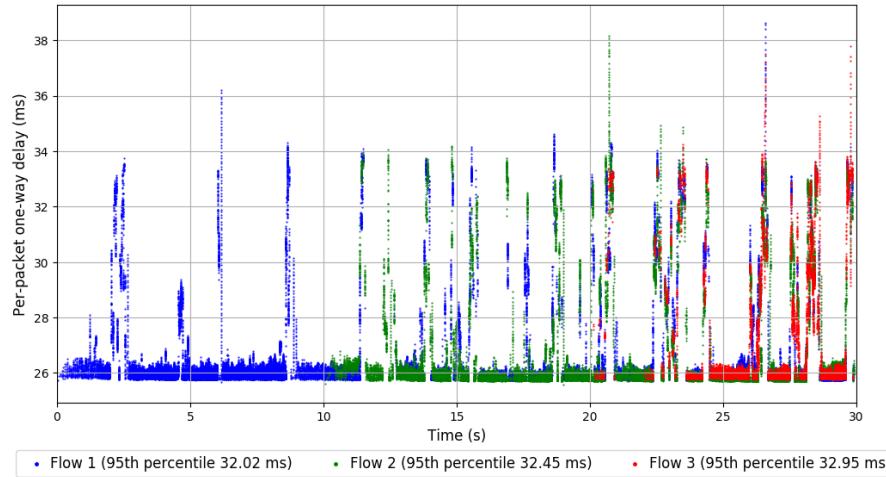
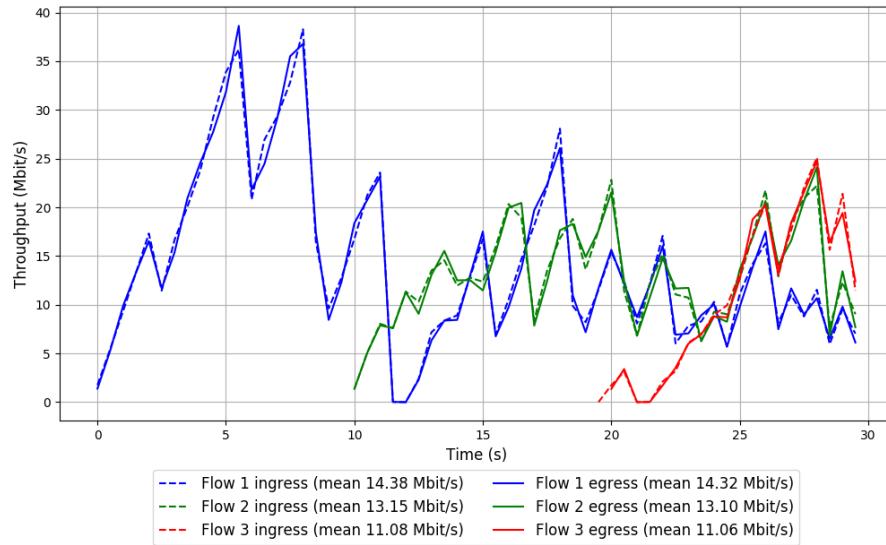


Run 8: Statistics of LEDBAT

```
Start at: 2017-12-05 21:18:31
End at: 2017-12-05 21:19:01
Local clock offset: -0.581 ms
Remote clock offset: -5.465 ms

# Below is generated by plot.py at 2017-12-06 01:58:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 26.66 Mbit/s
95th percentile per-packet one-way delay: 32.402 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 14.32 Mbit/s
95th percentile per-packet one-way delay: 32.022 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 13.10 Mbit/s
95th percentile per-packet one-way delay: 32.448 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 11.06 Mbit/s
95th percentile per-packet one-way delay: 32.951 ms
Loss rate: 0.69%
```

Run 8: Report of LEDBAT — Data Link

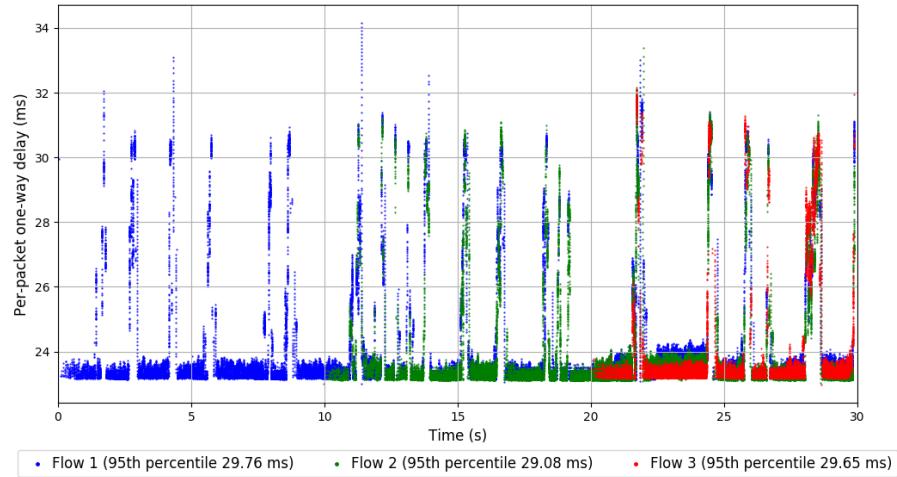
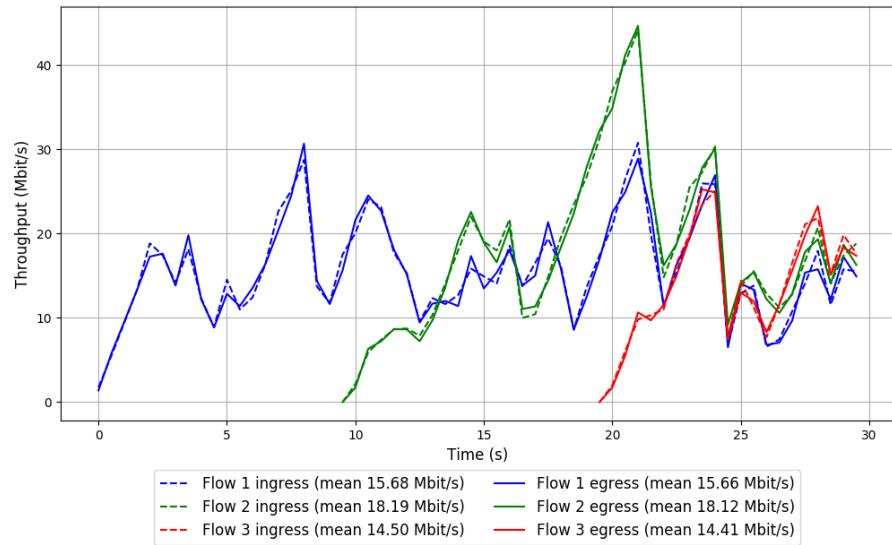


Run 9: Statistics of LEDBAT

```
Start at: 2017-12-05 21:38:16
End at: 2017-12-05 21:38:46
Local clock offset: -0.529 ms
Remote clock offset: -3.45 ms

# Below is generated by plot.py at 2017-12-06 01:58:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 32.51 Mbit/s
95th percentile per-packet one-way delay: 29.433 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 15.66 Mbit/s
95th percentile per-packet one-way delay: 29.757 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 18.12 Mbit/s
95th percentile per-packet one-way delay: 29.078 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 14.41 Mbit/s
95th percentile per-packet one-way delay: 29.654 ms
Loss rate: 1.15%
```

Run 9: Report of LEDBAT — Data Link

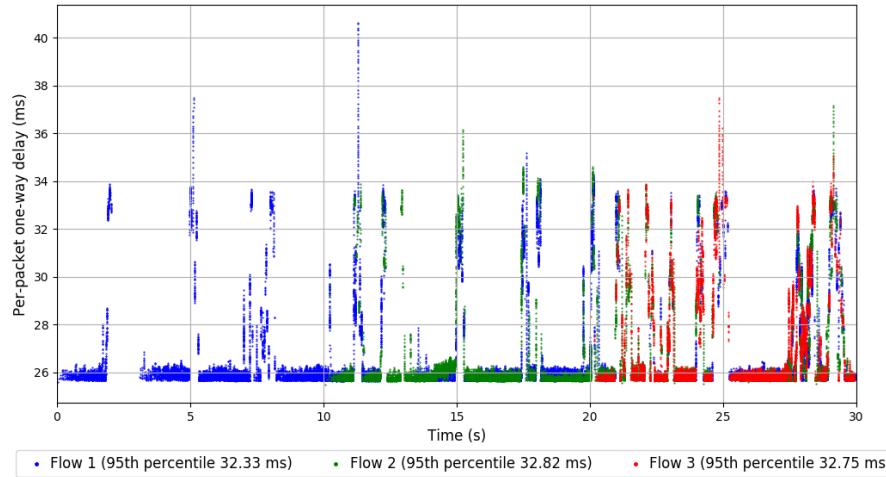
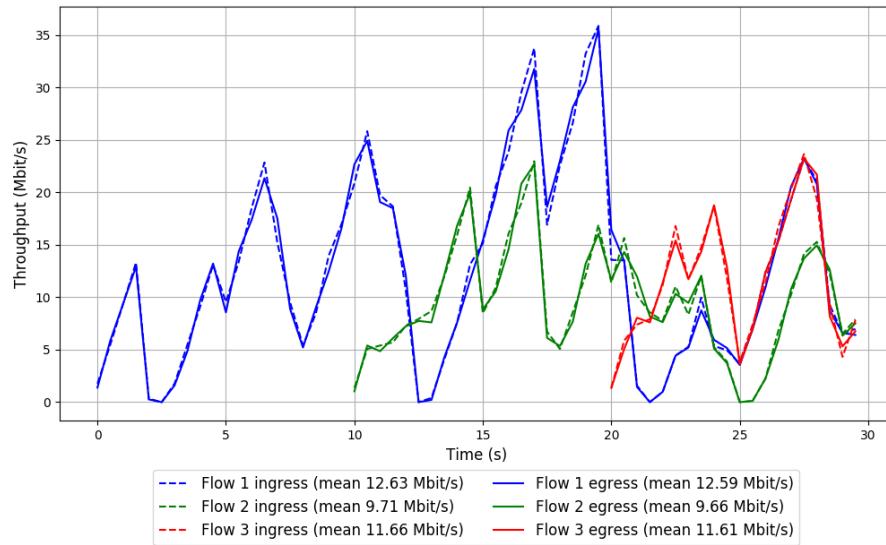


Run 10: Statistics of LEDBAT

```
Start at: 2017-12-05 21:58:16
End at: 2017-12-05 21:58:46
Local clock offset: -0.405 ms
Remote clock offset: -5.288 ms

# Below is generated by plot.py at 2017-12-06 01:58:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.83 Mbit/s
95th percentile per-packet one-way delay: 32.599 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 12.59 Mbit/s
95th percentile per-packet one-way delay: 32.334 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 9.66 Mbit/s
95th percentile per-packet one-way delay: 32.823 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 11.61 Mbit/s
95th percentile per-packet one-way delay: 32.752 ms
Loss rate: 0.93%
```

Run 10: Report of LEDBAT — Data Link

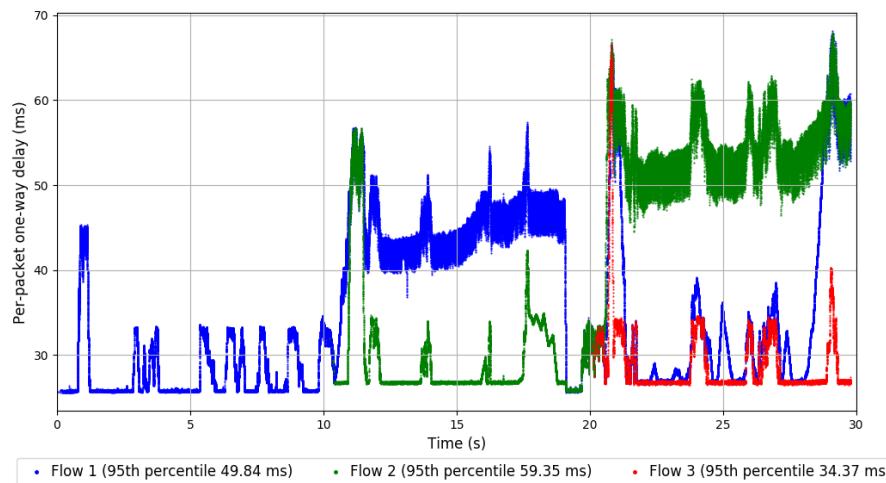
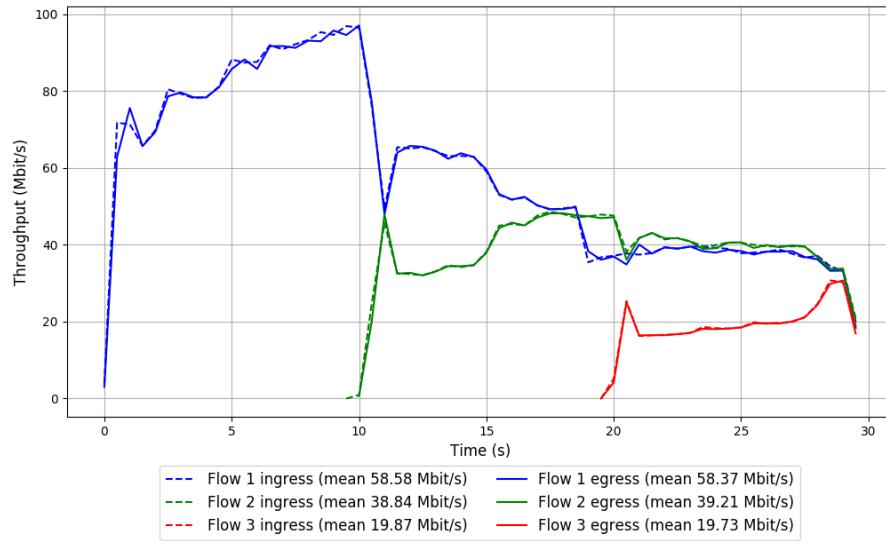


Run 1: Statistics of PCC

```
Start at: 2017-12-05 19:08:19
End at: 2017-12-05 19:08:49
Local clock offset: -0.594 ms
Remote clock offset: -5.337 ms

# Below is generated by plot.py at 2017-12-06 02:00:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.63 Mbit/s
95th percentile per-packet one-way delay: 56.539 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 58.37 Mbit/s
95th percentile per-packet one-way delay: 49.836 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 39.21 Mbit/s
95th percentile per-packet one-way delay: 59.348 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 19.73 Mbit/s
95th percentile per-packet one-way delay: 34.368 ms
Loss rate: 1.22%
```

Run 1: Report of PCC — Data Link

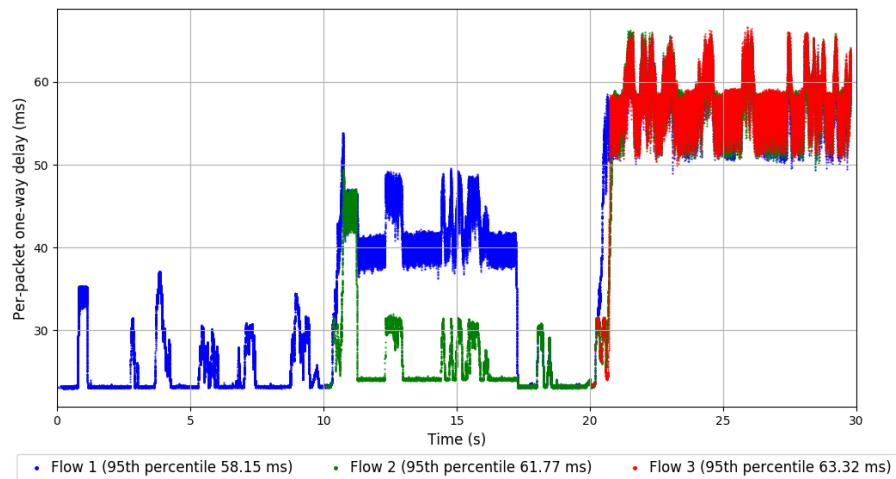
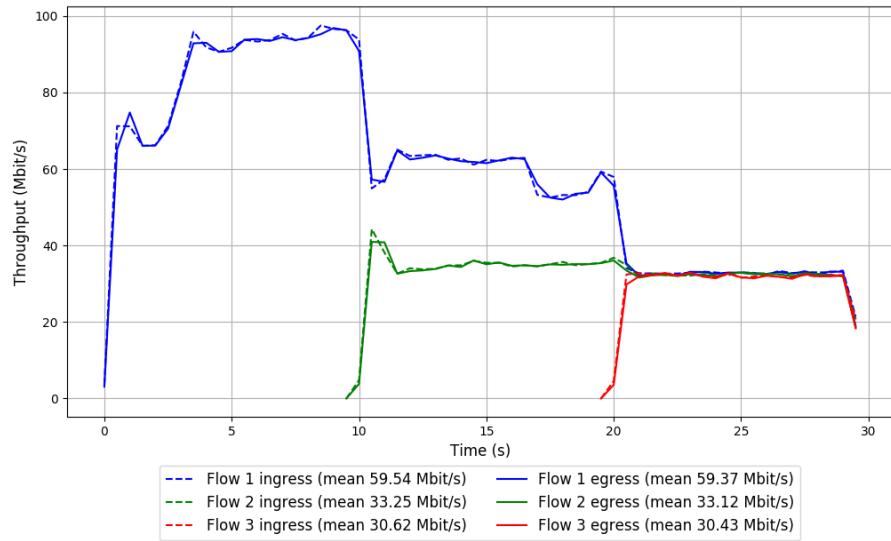


Run 2: Statistics of PCC

```
Start at: 2017-12-05 19:27:57
End at: 2017-12-05 19:28:27
Local clock offset: -0.567 ms
Remote clock offset: -2.524 ms

# Below is generated by plot.py at 2017-12-06 02:00:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.44 Mbit/s
95th percentile per-packet one-way delay: 60.817 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 59.37 Mbit/s
95th percentile per-packet one-way delay: 58.145 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 33.12 Mbit/s
95th percentile per-packet one-way delay: 61.765 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 30.43 Mbit/s
95th percentile per-packet one-way delay: 63.321 ms
Loss rate: 1.32%
```

Run 2: Report of PCC — Data Link

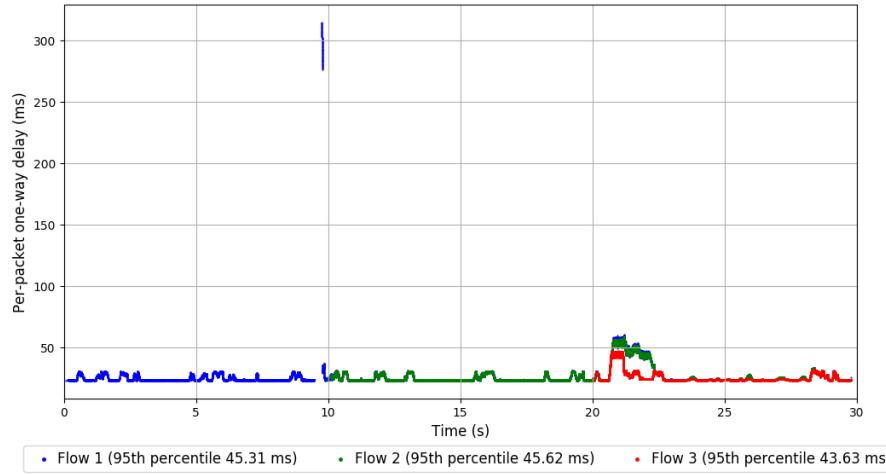
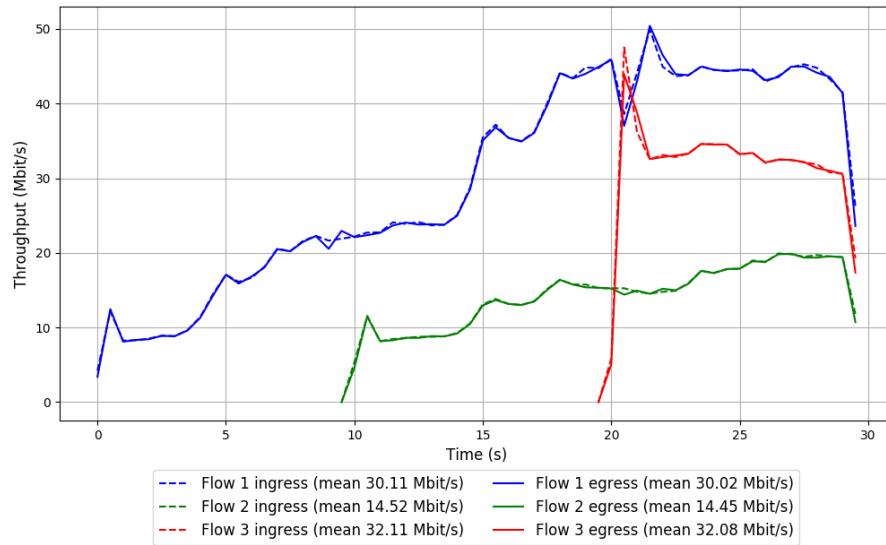


Run 3: Statistics of PCC

```
Start at: 2017-12-05 19:47:52
End at: 2017-12-05 19:48:22
Local clock offset: -0.631 ms
Remote clock offset: -2.129 ms

# Below is generated by plot.py at 2017-12-06 02:00:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 50.22 Mbit/s
95th percentile per-packet one-way delay: 44.790 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 30.02 Mbit/s
95th percentile per-packet one-way delay: 45.308 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 14.45 Mbit/s
95th percentile per-packet one-way delay: 45.624 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 32.08 Mbit/s
95th percentile per-packet one-way delay: 43.632 ms
Loss rate: 0.64%
```

Run 3: Report of PCC — Data Link

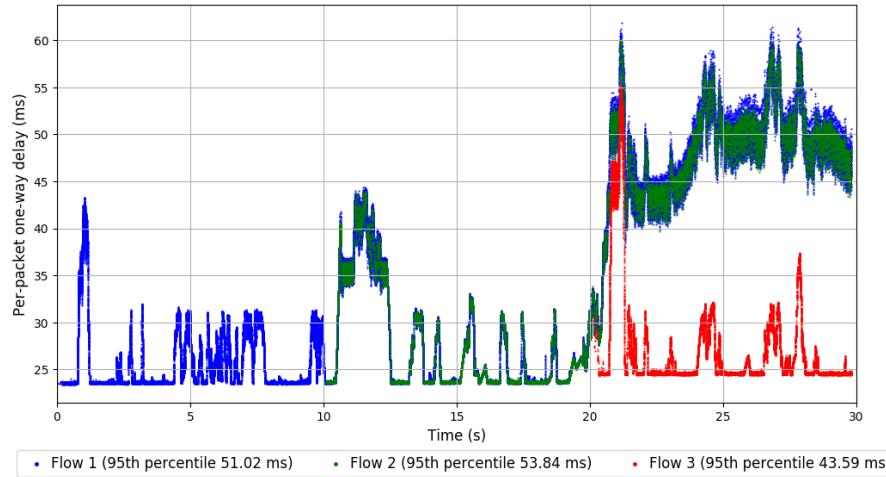
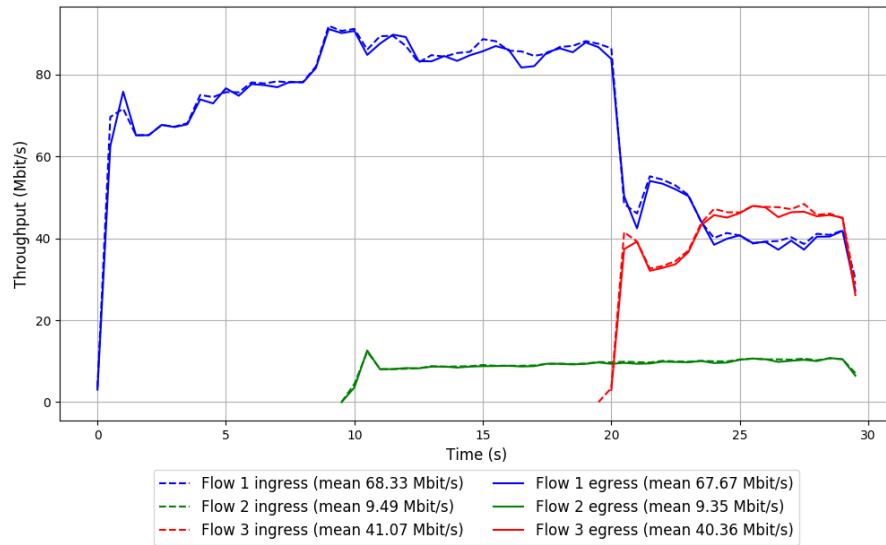


Run 4: Statistics of PCC

```
Start at: 2017-12-05 20:07:37
End at: 2017-12-05 20:08:07
Local clock offset: -0.69 ms
Remote clock offset: -1.909 ms

# Below is generated by plot.py at 2017-12-06 02:00:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.16 Mbit/s
95th percentile per-packet one-way delay: 50.985 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 67.67 Mbit/s
95th percentile per-packet one-way delay: 51.015 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 9.35 Mbit/s
95th percentile per-packet one-way delay: 53.841 ms
Loss rate: 1.73%
-- Flow 3:
Average throughput: 40.36 Mbit/s
95th percentile per-packet one-way delay: 43.591 ms
Loss rate: 2.31%
```

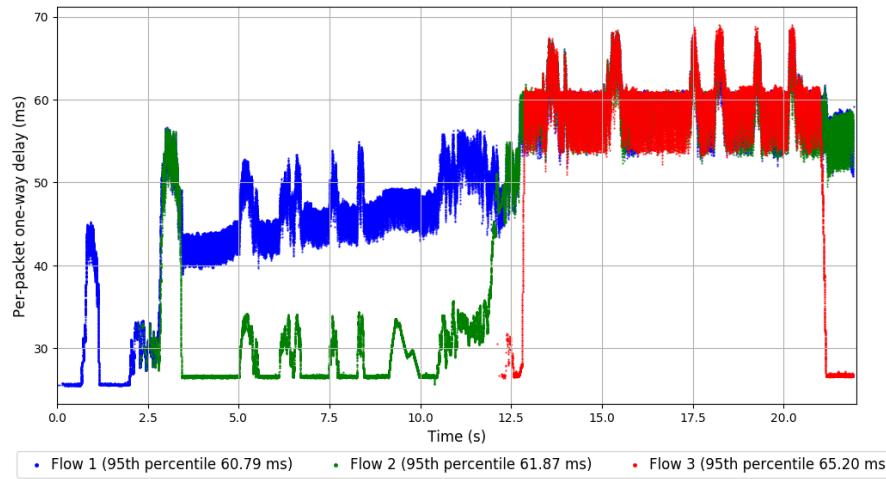
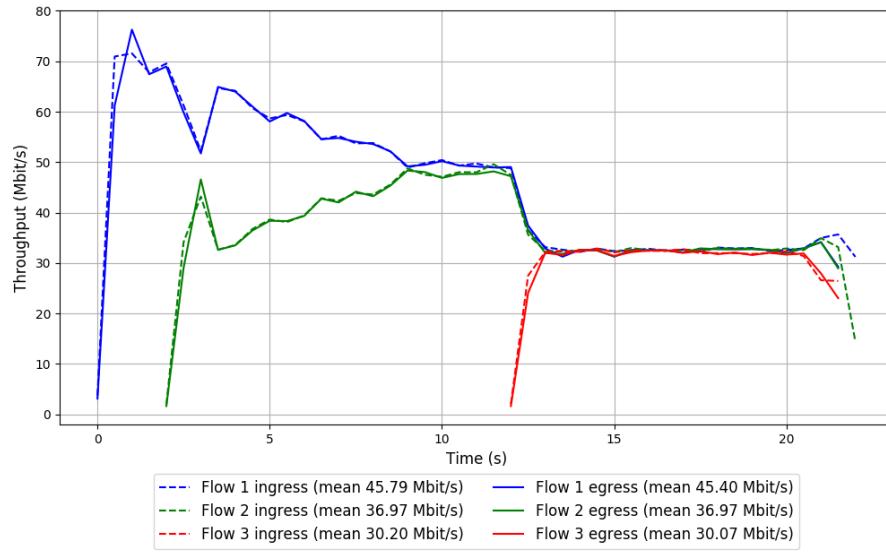
Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-12-05 20:27:32
End at: 2017-12-05 20:28:02
Local clock offset: -0.648 ms
Remote clock offset: -3.926 ms

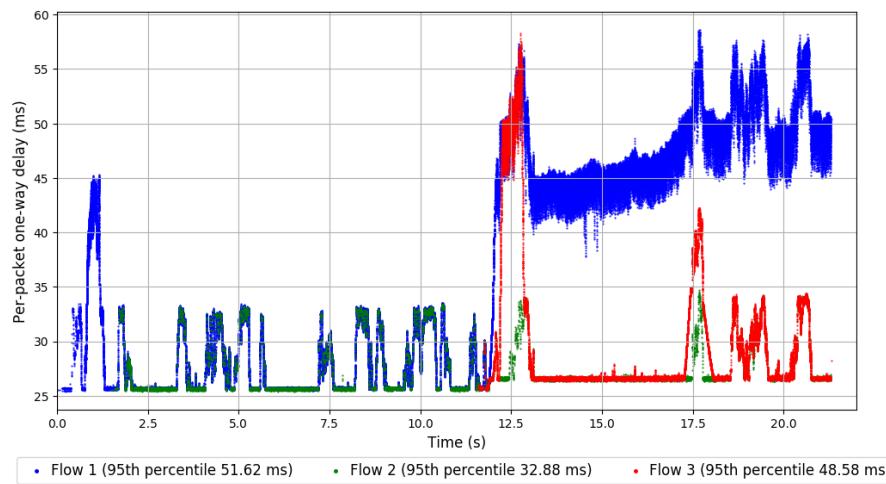
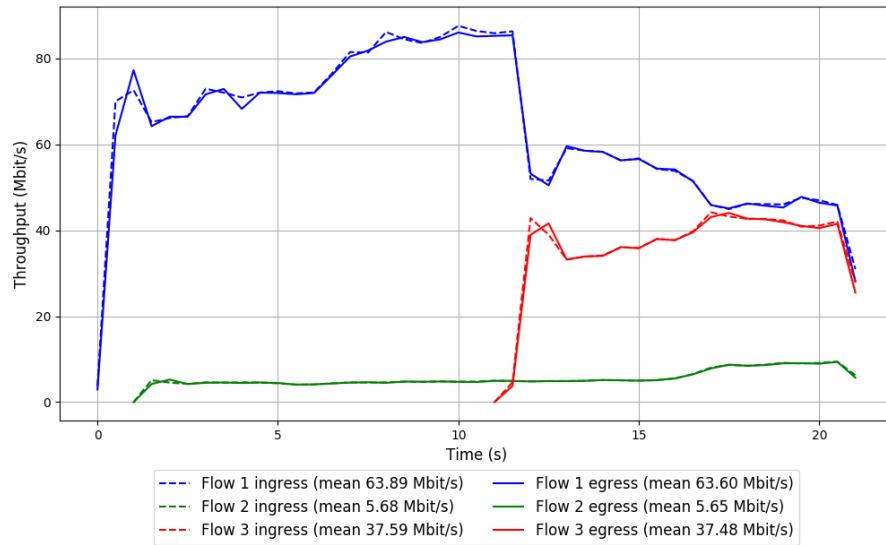
Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-12-05 20:47:08
End at: 2017-12-05 20:47:38
Local clock offset: -0.759 ms
Remote clock offset: -4.454 ms

Run 6: Report of PCC — Data Link

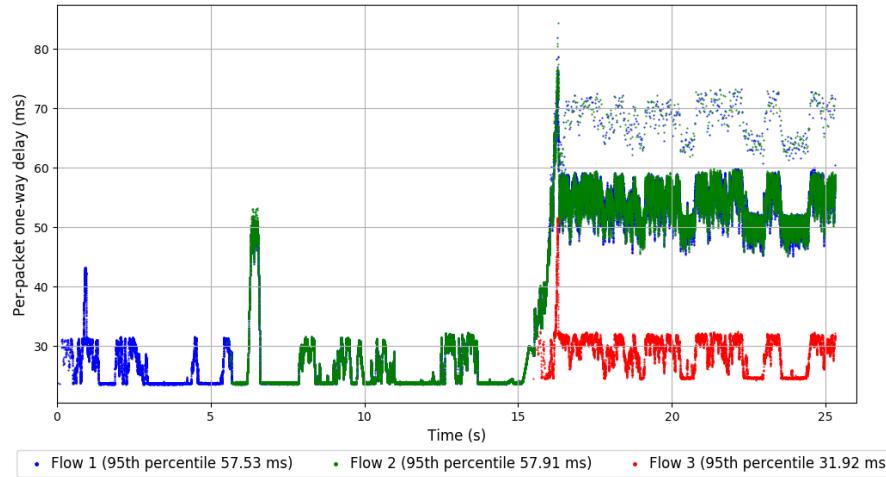
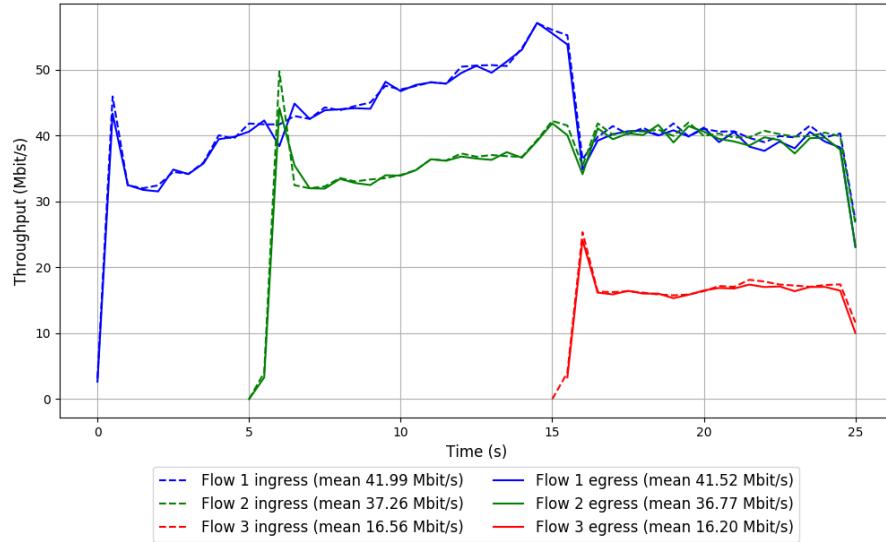


Run 7: Statistics of PCC

```
Start at: 2017-12-05 21:07:13
End at: 2017-12-05 21:07:43
Local clock offset: -0.696 ms
Remote clock offset: -2.949 ms

# Below is generated by plot.py at 2017-12-06 02:00:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.60 Mbit/s
95th percentile per-packet one-way delay: 57.602 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 41.52 Mbit/s
95th percentile per-packet one-way delay: 57.532 ms
Loss rate: 1.39%
-- Flow 2:
Average throughput: 36.77 Mbit/s
95th percentile per-packet one-way delay: 57.913 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 16.20 Mbit/s
95th percentile per-packet one-way delay: 31.918 ms
Loss rate: 2.72%
```

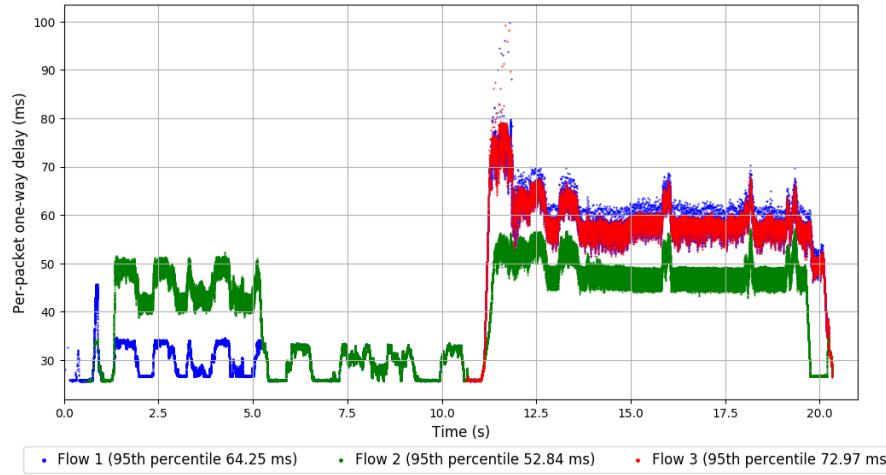
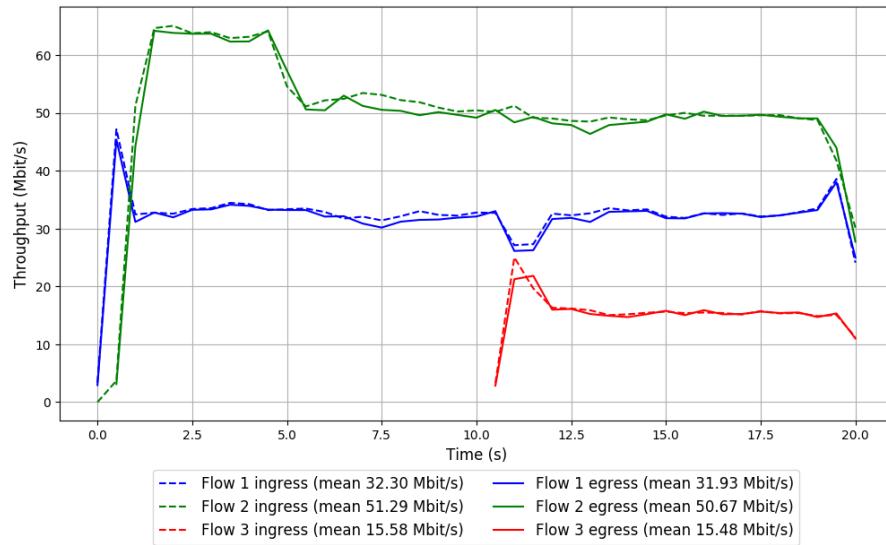
Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-12-05 21:27:00
End at: 2017-12-05 21:27:30
Local clock offset: -0.501 ms
Remote clock offset: -5.804 ms

Run 8: Report of PCC — Data Link

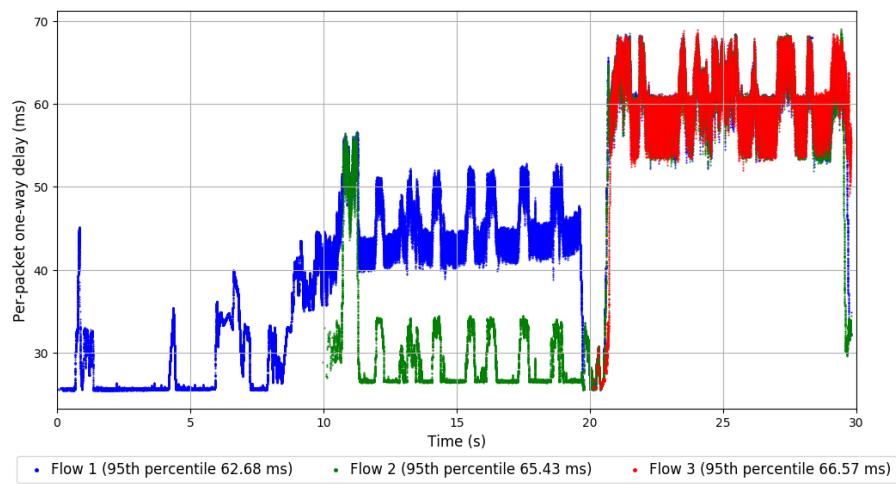
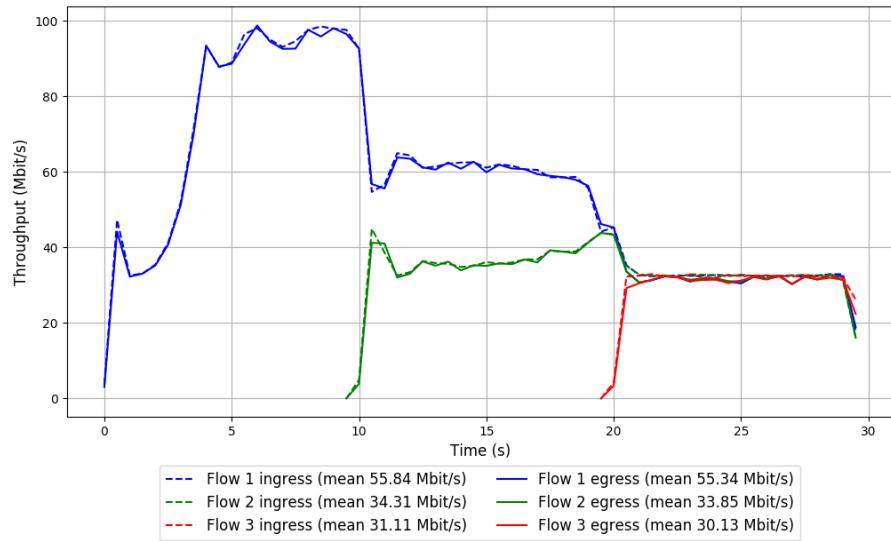


Run 9: Statistics of PCC

```
Start at: 2017-12-05 21:46:46
End at: 2017-12-05 21:47:16
Local clock offset: -0.356 ms
Remote clock offset: -5.727 ms

# Below is generated by plot.py at 2017-12-06 02:00:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.78 Mbit/s
95th percentile per-packet one-way delay: 64.790 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 55.34 Mbit/s
95th percentile per-packet one-way delay: 62.678 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 33.85 Mbit/s
95th percentile per-packet one-way delay: 65.432 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 30.13 Mbit/s
95th percentile per-packet one-way delay: 66.566 ms
Loss rate: 3.74%
```

Run 9: Report of PCC — Data Link

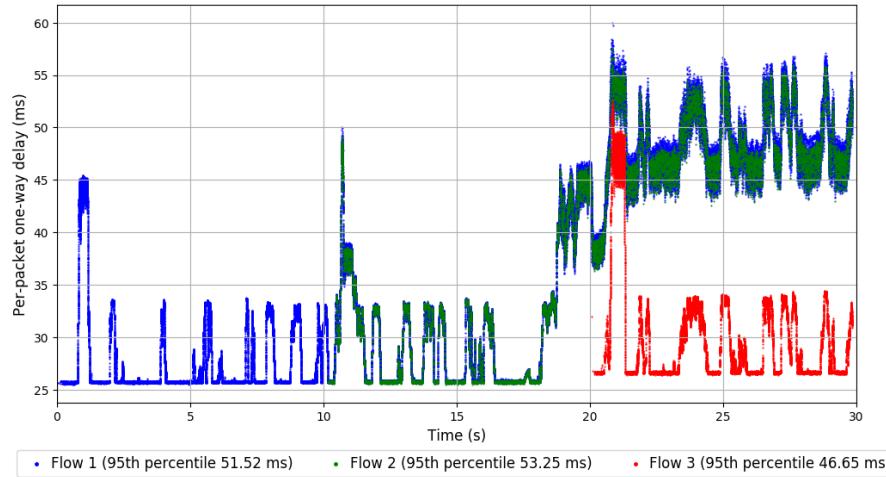
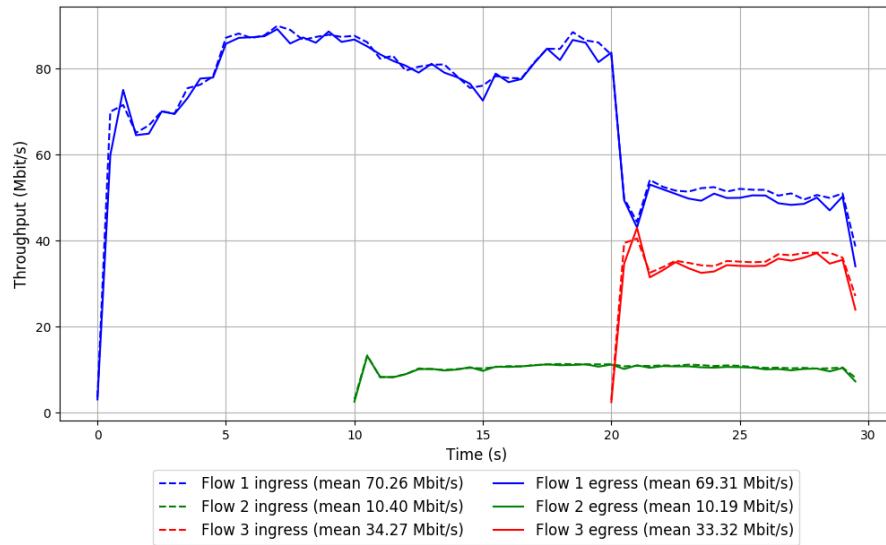


Run 10: Statistics of PCC

```
Start at: 2017-12-05 22:06:41
End at: 2017-12-05 22:07:11
Local clock offset: -0.392 ms
Remote clock offset: -4.935 ms

# Below is generated by plot.py at 2017-12-06 02:01:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.02 Mbit/s
95th percentile per-packet one-way delay: 51.373 ms
Loss rate: 1.84%
-- Flow 1:
Average throughput: 69.31 Mbit/s
95th percentile per-packet one-way delay: 51.521 ms
Loss rate: 1.56%
-- Flow 2:
Average throughput: 10.19 Mbit/s
95th percentile per-packet one-way delay: 53.246 ms
Loss rate: 2.23%
-- Flow 3:
Average throughput: 33.32 Mbit/s
95th percentile per-packet one-way delay: 46.648 ms
Loss rate: 3.36%
```

Run 10: Report of PCC — Data Link

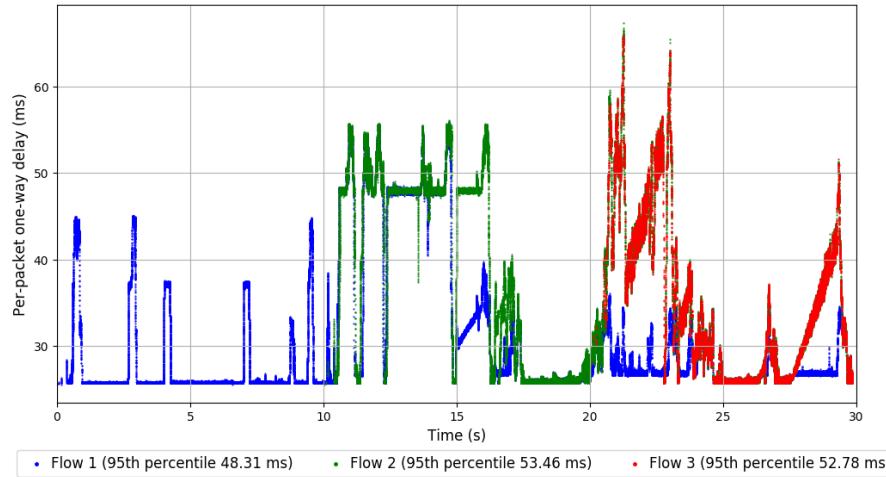
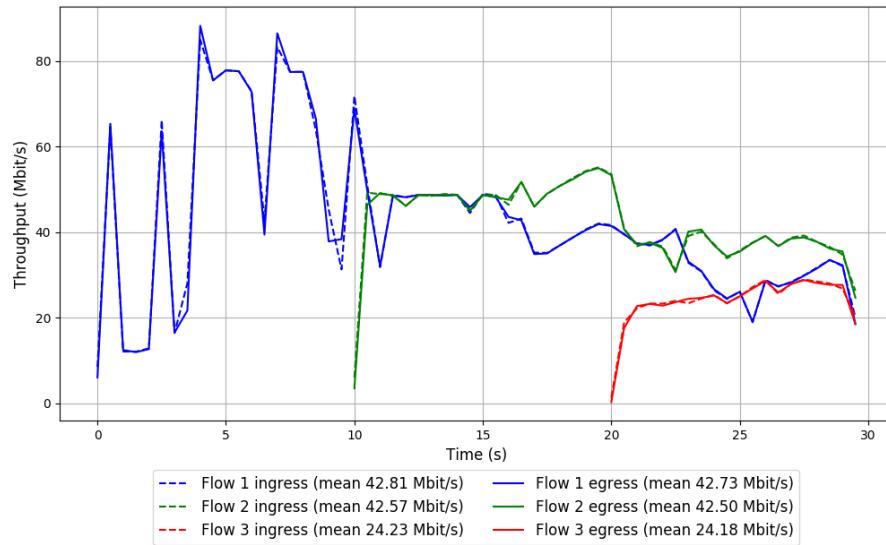


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-12-05 19:02:38
End at: 2017-12-05 19:03:08
Local clock offset: -0.608 ms
Remote clock offset: -5.299 ms

# Below is generated by plot.py at 2017-12-06 02:01:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.88 Mbit/s
95th percentile per-packet one-way delay: 51.425 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 42.73 Mbit/s
95th percentile per-packet one-way delay: 48.310 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 42.50 Mbit/s
95th percentile per-packet one-way delay: 53.457 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 24.18 Mbit/s
95th percentile per-packet one-way delay: 52.785 ms
Loss rate: 0.75%
```

Run 1: Report of QUIC Cubic — Data Link

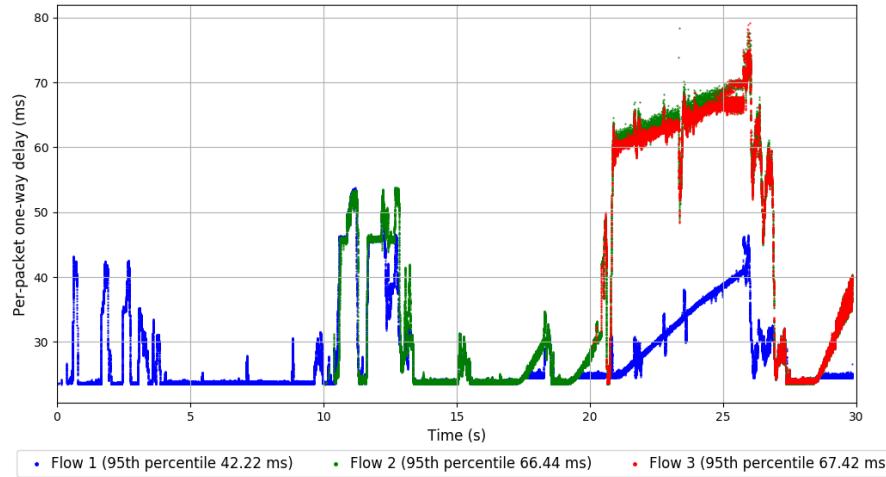
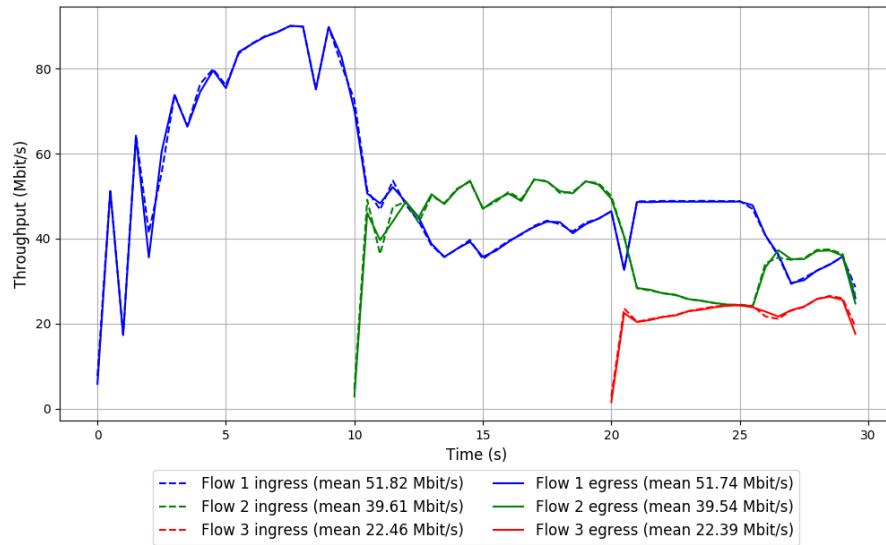


Run 2: Statistics of QUIC Cubic

```
Start at: 2017-12-05 19:22:18
End at: 2017-12-05 19:22:48
Local clock offset: -0.628 ms
Remote clock offset: -3.036 ms

# Below is generated by plot.py at 2017-12-06 02:01:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.33 Mbit/s
95th percentile per-packet one-way delay: 64.220 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 51.74 Mbit/s
95th percentile per-packet one-way delay: 42.219 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 39.54 Mbit/s
95th percentile per-packet one-way delay: 66.435 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 22.39 Mbit/s
95th percentile per-packet one-way delay: 67.421 ms
Loss rate: 0.91%
```

Run 2: Report of QUIC Cubic — Data Link

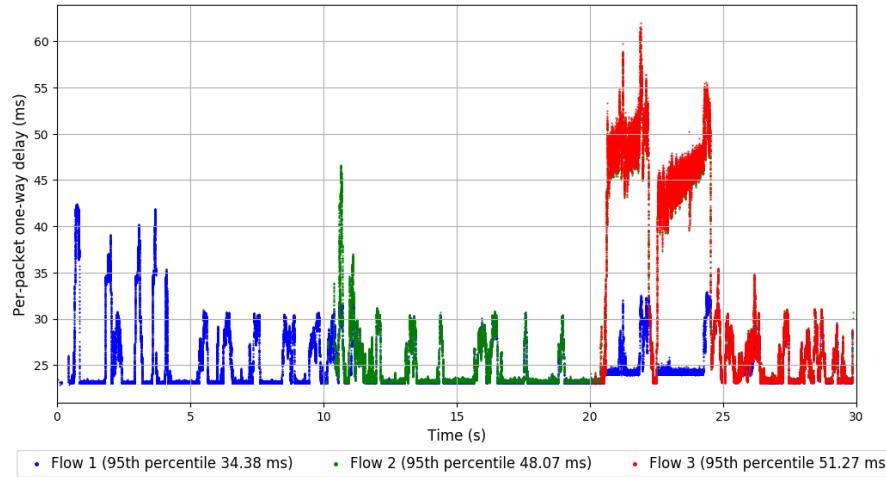
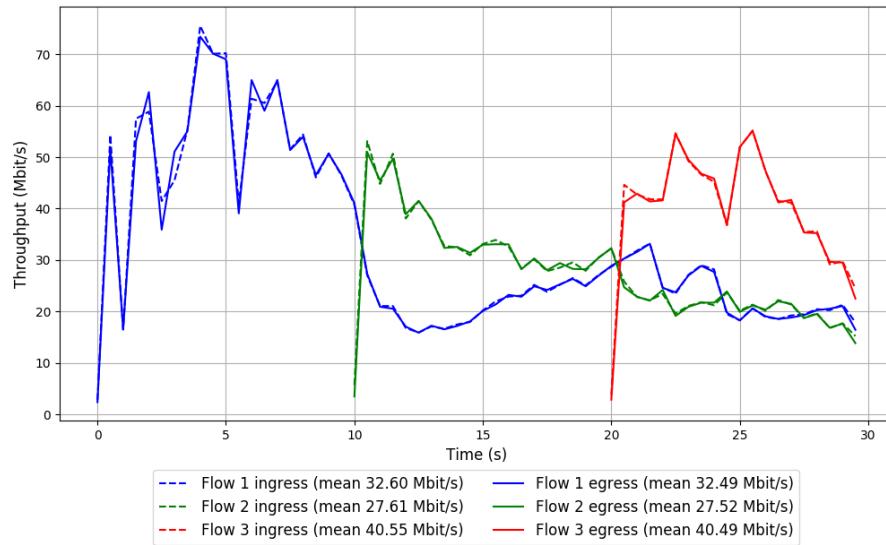


Run 3: Statistics of QUIC Cubic

```
Start at: 2017-12-05 19:42:03
End at: 2017-12-05 19:42:33
Local clock offset: -0.68 ms
Remote clock offset: -2.236 ms

# Below is generated by plot.py at 2017-12-06 02:01:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.07 Mbit/s
95th percentile per-packet one-way delay: 47.605 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 32.49 Mbit/s
95th percentile per-packet one-way delay: 34.377 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 27.52 Mbit/s
95th percentile per-packet one-way delay: 48.070 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 40.49 Mbit/s
95th percentile per-packet one-way delay: 51.275 ms
Loss rate: 0.70%
```

Run 3: Report of QUIC Cubic — Data Link

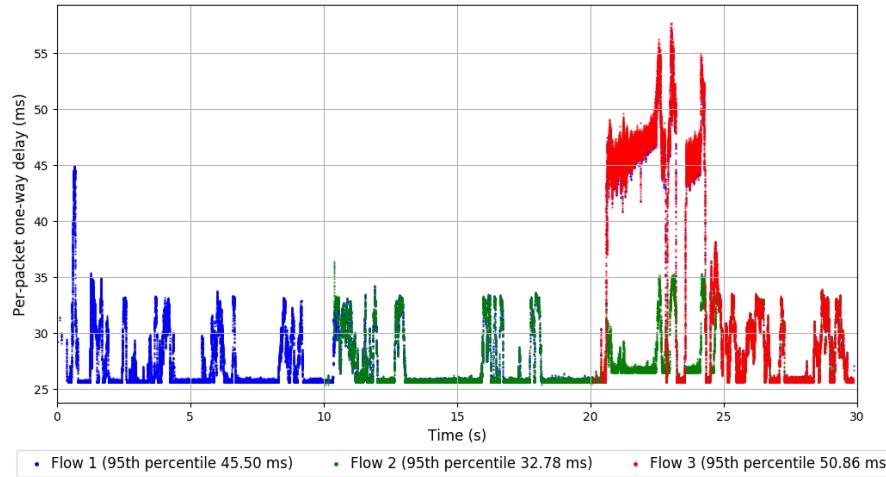
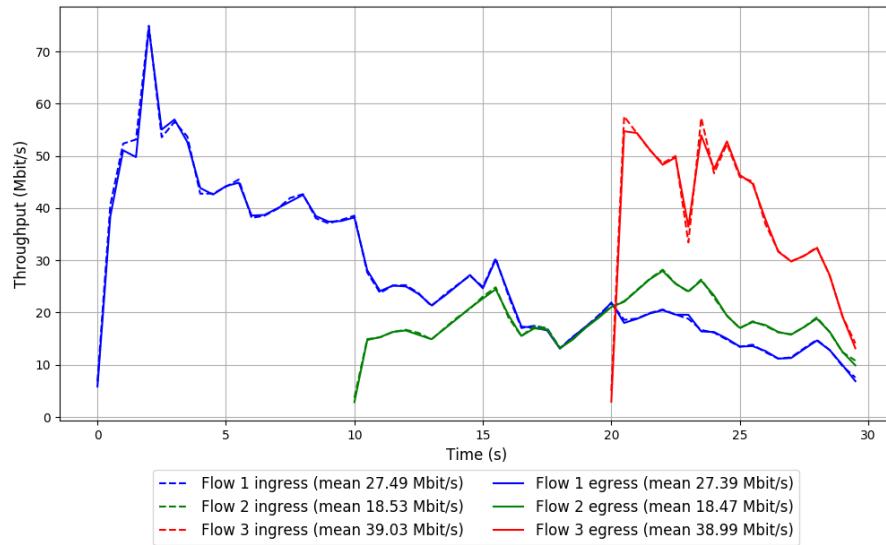


Run 4: Statistics of QUIC Cubic

```
Start at: 2017-12-05 20:02:00
End at: 2017-12-05 20:02:30
Local clock offset: -0.697 ms
Remote clock offset: -4.135 ms

# Below is generated by plot.py at 2017-12-06 02:01:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 52.48 Mbit/s
95th percentile per-packet one-way delay: 47.215 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 27.39 Mbit/s
95th percentile per-packet one-way delay: 45.497 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 18.47 Mbit/s
95th percentile per-packet one-way delay: 32.785 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 38.99 Mbit/s
95th percentile per-packet one-way delay: 50.860 ms
Loss rate: 0.61%
```

Run 4: Report of QUIC Cubic — Data Link

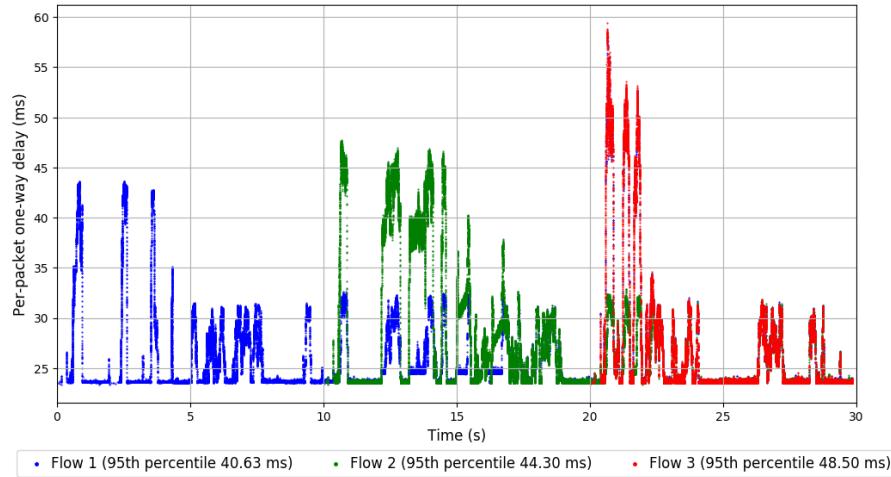
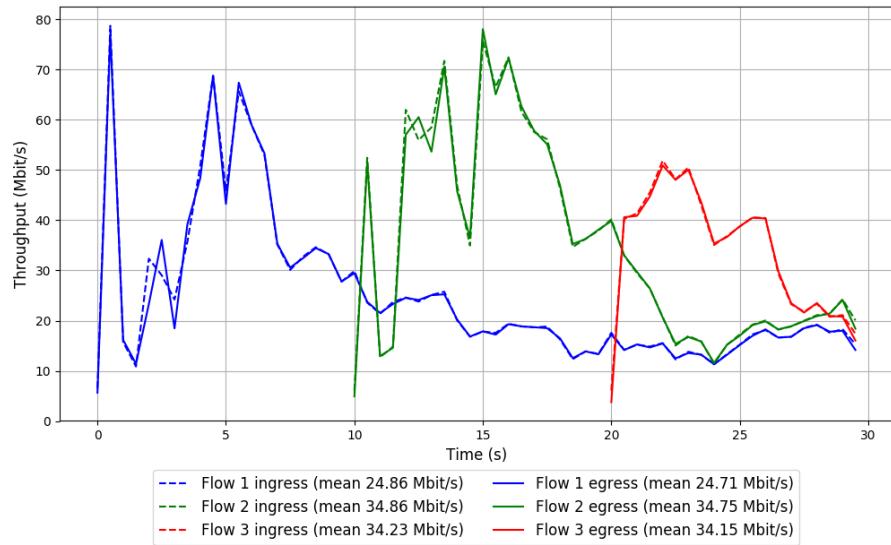


Run 5: Statistics of QUIC Cubic

```
Start at: 2017-12-05 20:21:43
End at: 2017-12-05 20:22:13
Local clock offset: -0.739 ms
Remote clock offset: -1.77 ms

# Below is generated by plot.py at 2017-12-06 02:01:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.04 Mbit/s
95th percentile per-packet one-way delay: 43.626 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 24.71 Mbit/s
95th percentile per-packet one-way delay: 40.632 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 34.75 Mbit/s
95th percentile per-packet one-way delay: 44.297 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 34.15 Mbit/s
95th percentile per-packet one-way delay: 48.496 ms
Loss rate: 0.74%
```

Run 5: Report of QUIC Cubic — Data Link

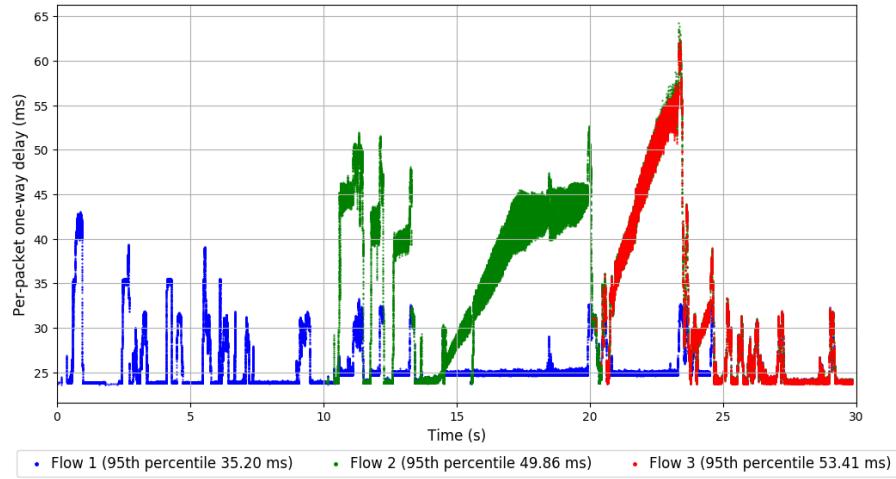
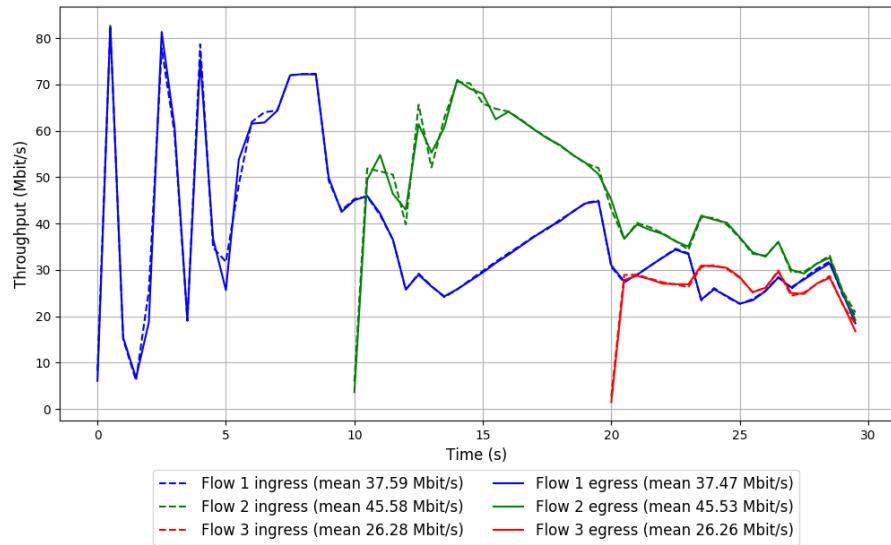


Run 6: Statistics of QUIC Cubic

```
Start at: 2017-12-05 20:41:23
End at: 2017-12-05 20:41:53
Local clock offset: -0.678 ms
Remote clock offset: -2.357 ms

# Below is generated by plot.py at 2017-12-06 02:01:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.31 Mbit/s
95th percentile per-packet one-way delay: 46.865 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 37.47 Mbit/s
95th percentile per-packet one-way delay: 35.204 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 45.53 Mbit/s
95th percentile per-packet one-way delay: 49.857 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 26.26 Mbit/s
95th percentile per-packet one-way delay: 53.413 ms
Loss rate: 0.69%
```

Run 6: Report of QUIC Cubic — Data Link

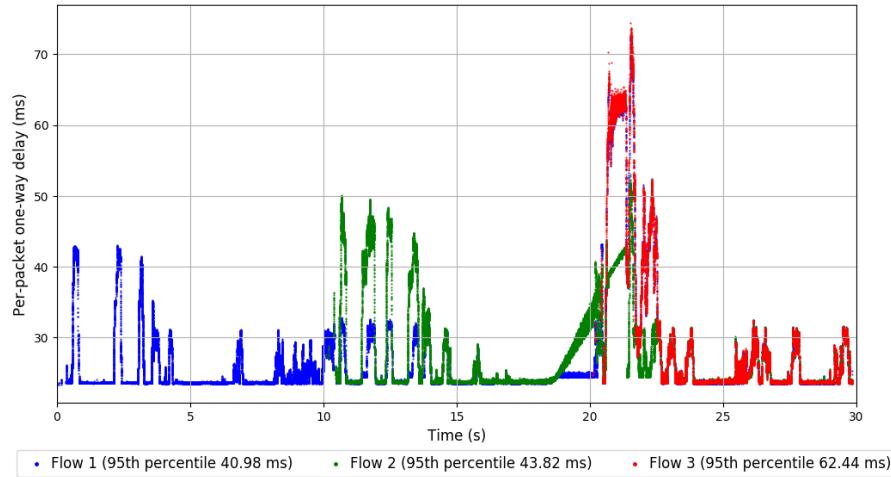
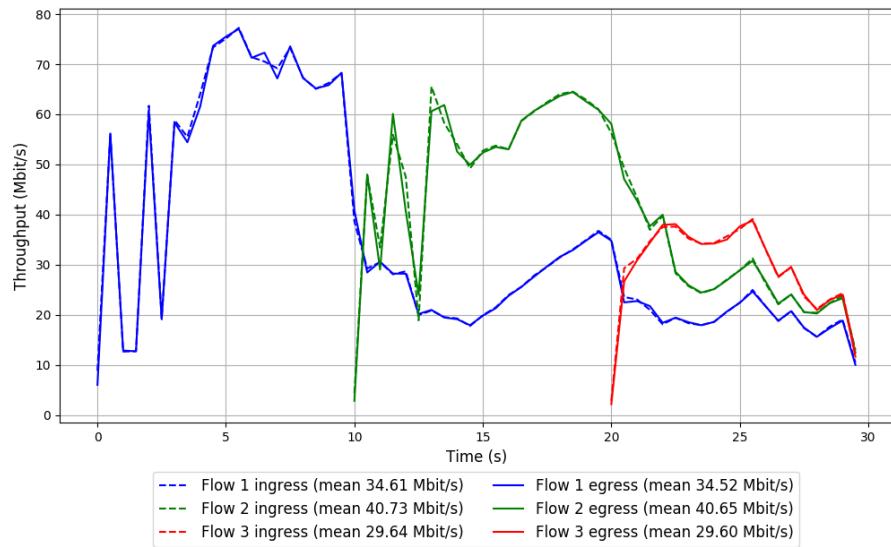


Run 7: Statistics of QUIC Cubic

```
Start at: 2017-12-05 21:01:20
End at: 2017-12-05 21:01:50
Local clock offset: -0.786 ms
Remote clock offset: -2.72 ms

# Below is generated by plot.py at 2017-12-06 02:02:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.22 Mbit/s
95th percentile per-packet one-way delay: 43.616 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 34.52 Mbit/s
95th percentile per-packet one-way delay: 40.978 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 40.65 Mbit/s
95th percentile per-packet one-way delay: 43.818 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 29.60 Mbit/s
95th percentile per-packet one-way delay: 62.435 ms
Loss rate: 0.67%
```

Run 7: Report of QUIC Cubic — Data Link

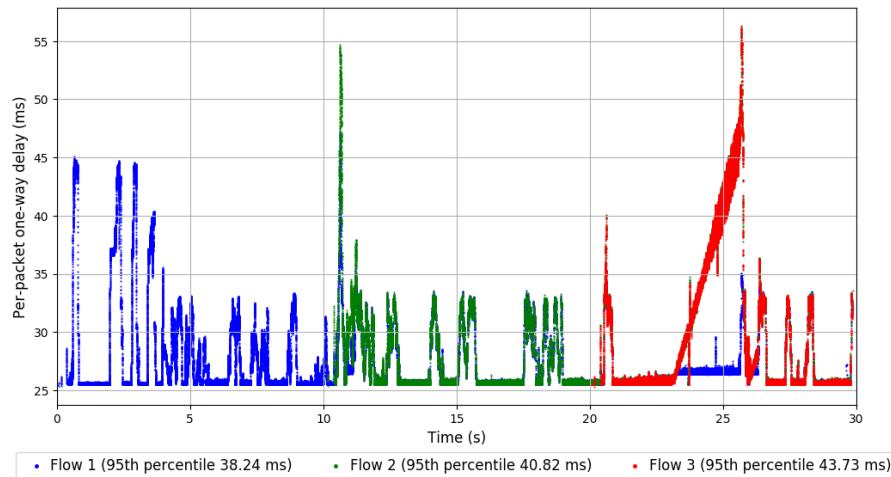
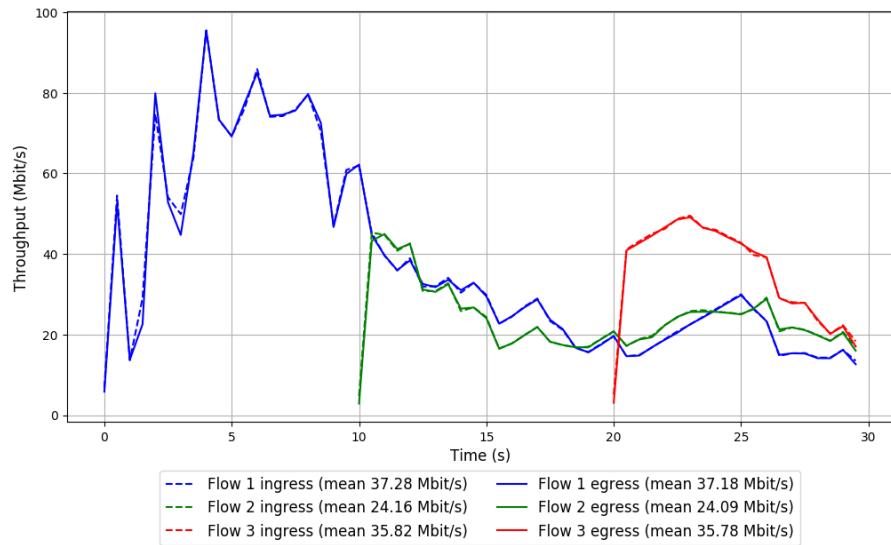


Run 8: Statistics of QUIC Cubic

```
Start at: 2017-12-05 21:21:12
End at: 2017-12-05 21:21:42
Local clock offset: -0.639 ms
Remote clock offset: -5.483 ms

# Below is generated by plot.py at 2017-12-06 02:02:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.94 Mbit/s
95th percentile per-packet one-way delay: 40.766 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 37.18 Mbit/s
95th percentile per-packet one-way delay: 38.243 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 24.09 Mbit/s
95th percentile per-packet one-way delay: 40.823 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 35.78 Mbit/s
95th percentile per-packet one-way delay: 43.729 ms
Loss rate: 0.66%
```

Run 8: Report of QUIC Cubic — Data Link

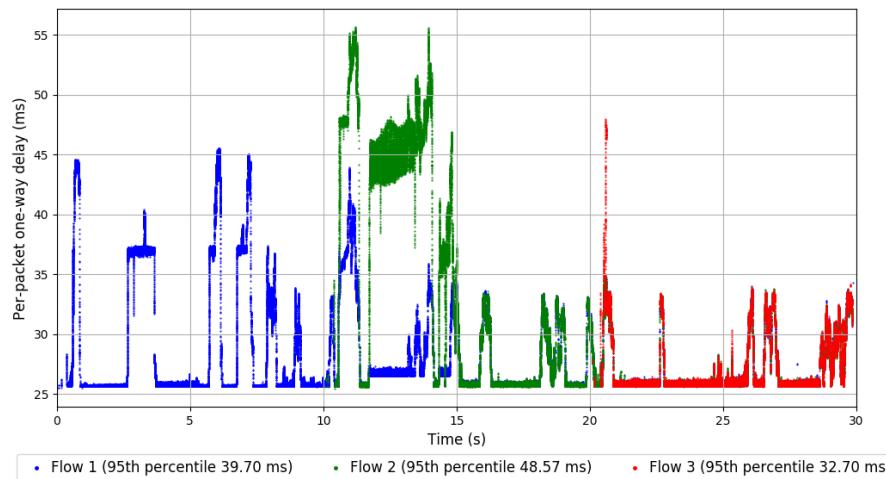
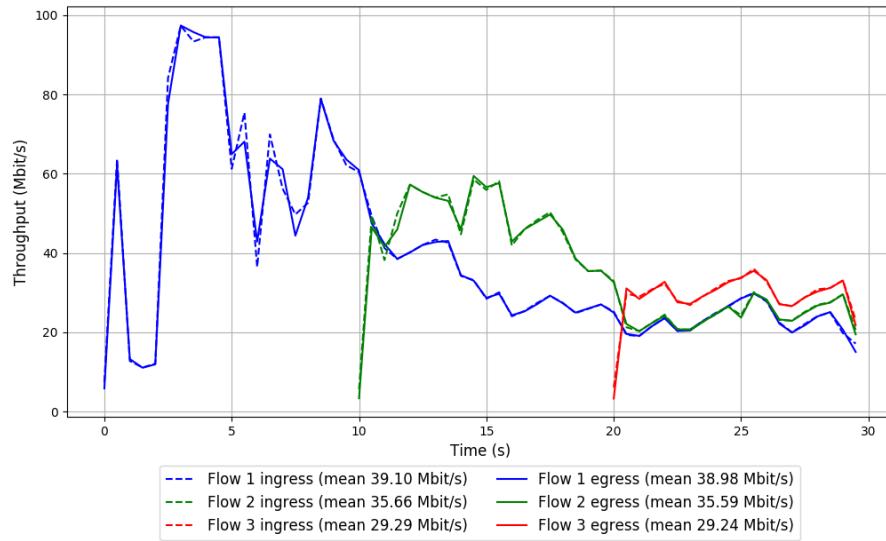


Run 9: Statistics of QUIC Cubic

```
Start at: 2017-12-05 21:40:54
End at: 2017-12-05 21:41:24
Local clock offset: -0.407 ms
Remote clock offset: -5.832 ms

# Below is generated by plot.py at 2017-12-06 02:02:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.25 Mbit/s
95th percentile per-packet one-way delay: 45.197 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 38.98 Mbit/s
95th percentile per-packet one-way delay: 39.701 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 35.59 Mbit/s
95th percentile per-packet one-way delay: 48.569 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 29.24 Mbit/s
95th percentile per-packet one-way delay: 32.705 ms
Loss rate: 0.75%
```

Run 9: Report of QUIC Cubic — Data Link

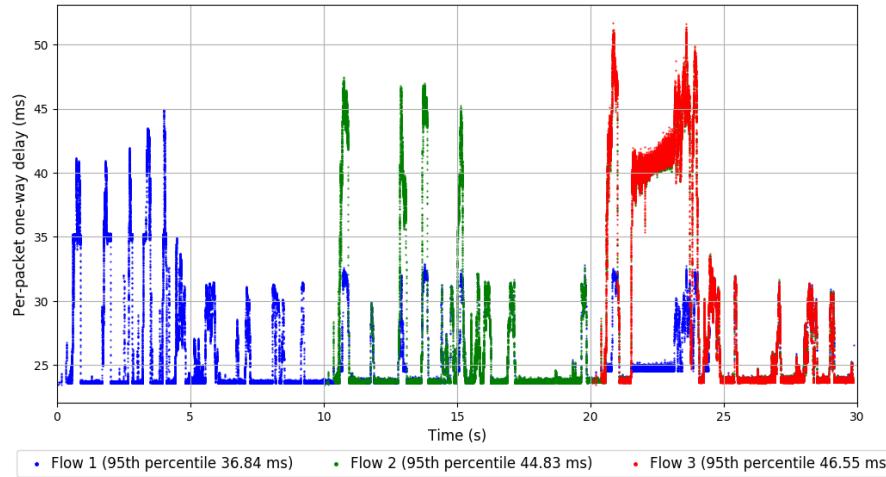
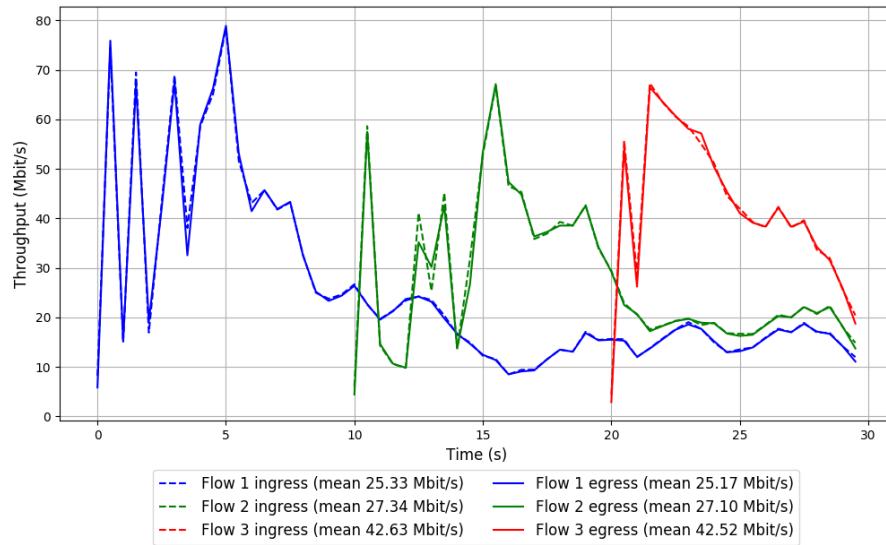


Run 10: Statistics of QUIC Cubic

```
Start at: 2017-12-05 22:00:53
End at: 2017-12-05 22:01:23
Local clock offset: -0.308 ms
Remote clock offset: -3.035 ms

# Below is generated by plot.py at 2017-12-06 02:02:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 57.14 Mbit/s
95th percentile per-packet one-way delay: 43.932 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 25.17 Mbit/s
95th percentile per-packet one-way delay: 36.845 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 27.10 Mbit/s
95th percentile per-packet one-way delay: 44.830 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 42.52 Mbit/s
95th percentile per-packet one-way delay: 46.547 ms
Loss rate: 0.77%
```

Run 10: Report of QUIC Cubic — Data Link

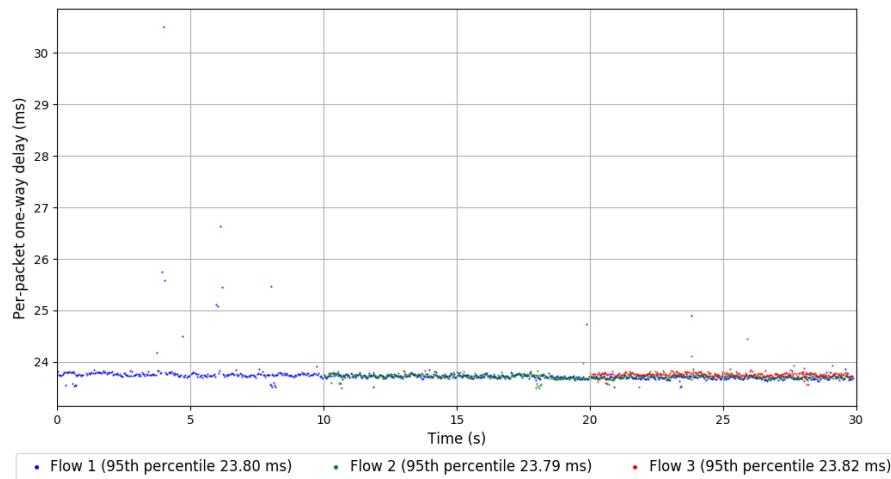
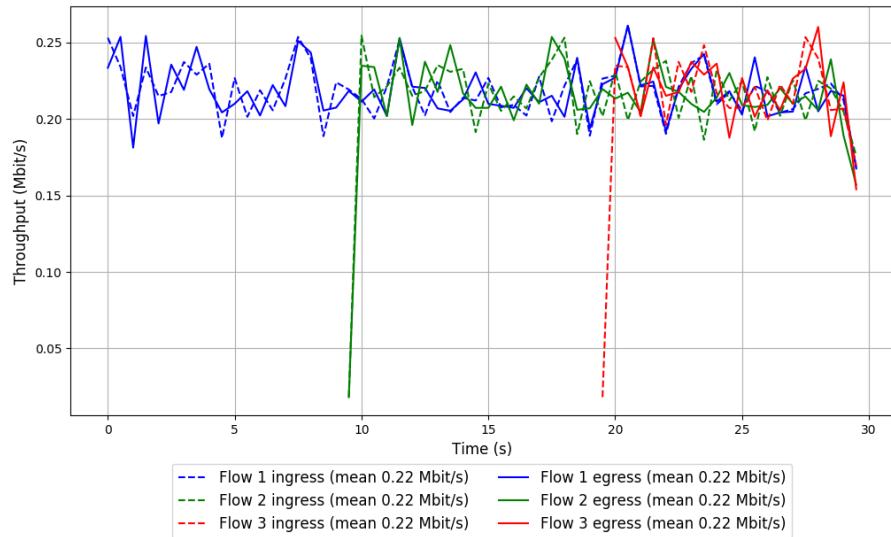


Run 1: Statistics of SCReAM

```
Start at: 2017-12-05 19:01:21
End at: 2017-12-05 19:01:51
Local clock offset: -0.604 ms
Remote clock offset: -3.248 ms

# Below is generated by plot.py at 2017-12-06 02:02:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 23.800 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.797 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.785 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.815 ms
Loss rate: 0.35%
```

Run 1: Report of SCReAM — Data Link

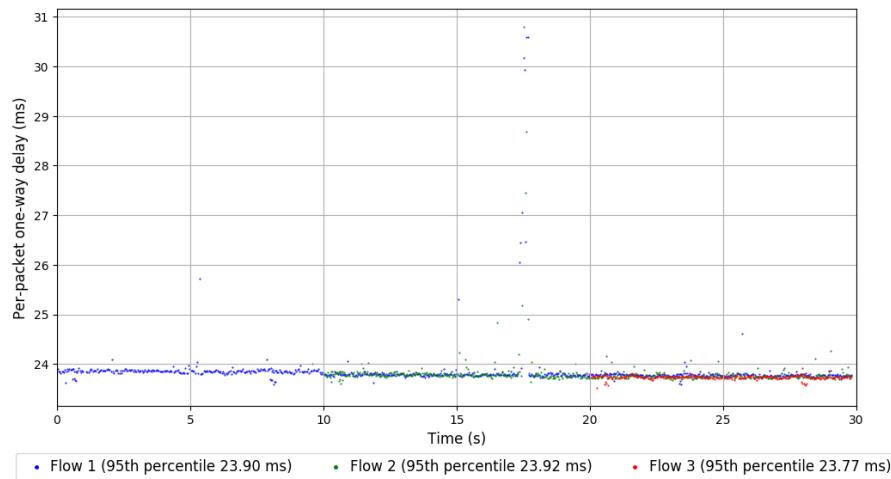
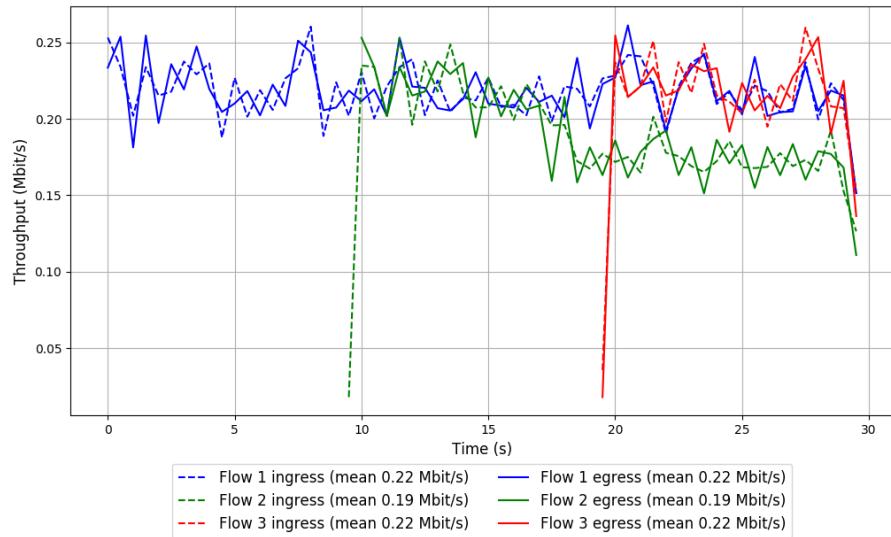


Run 2: Statistics of SCReAM

```
Start at: 2017-12-05 19:21:01
End at: 2017-12-05 19:21:31
Local clock offset: -0.555 ms
Remote clock offset: -3.159 ms

# Below is generated by plot.py at 2017-12-06 02:02:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 23.892 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.901 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 23.920 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.775 ms
Loss rate: 0.35%
```

Run 2: Report of SCReAM — Data Link

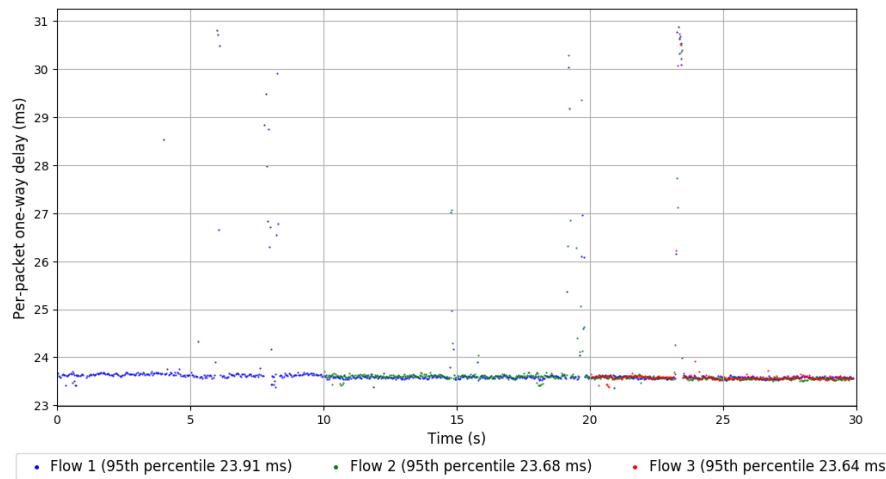
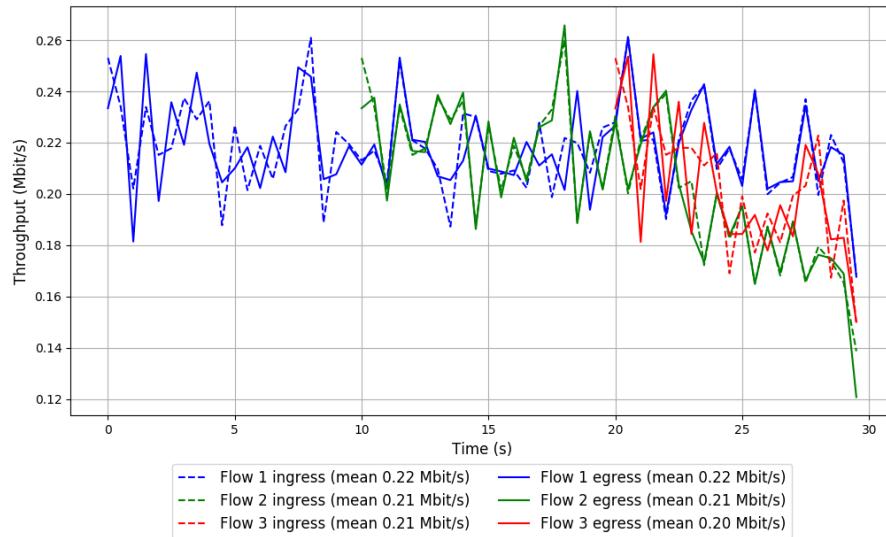


Run 3: Statistics of SCReAM

```
Start at: 2017-12-05 19:40:46
End at: 2017-12-05 19:41:16
Local clock offset: -0.679 ms
Remote clock offset: -2.772 ms

# Below is generated by plot.py at 2017-12-06 02:02:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 23.690 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.905 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 23.679 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 23.645 ms
Loss rate: 0.76%
```

Run 3: Report of SCReAM — Data Link

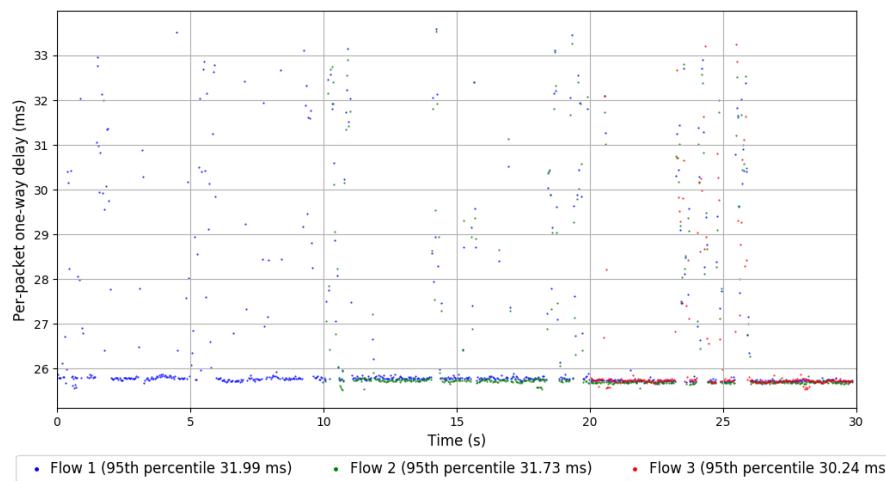
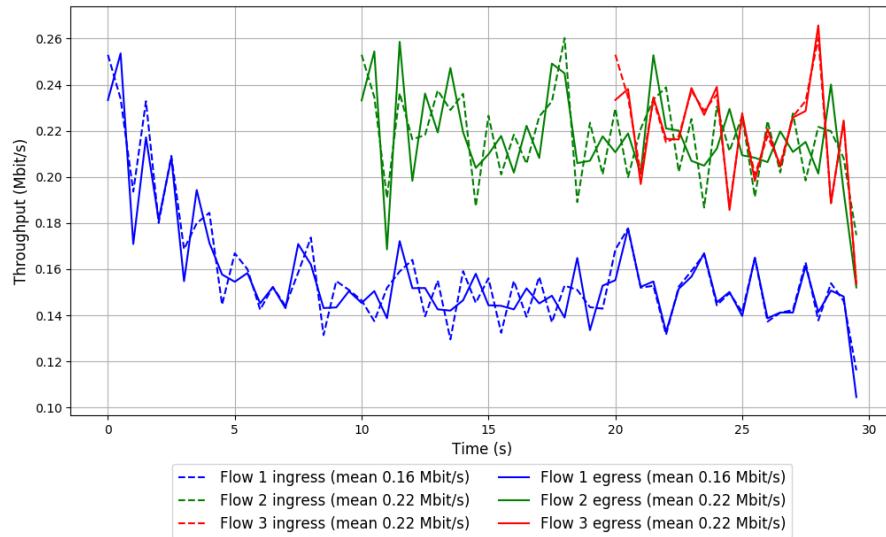


Run 4: Statistics of SCReAM

```
Start at: 2017-12-05 20:00:43
End at: 2017-12-05 20:01:13
Local clock offset: -0.597 ms
Remote clock offset: -4.119 ms

# Below is generated by plot.py at 2017-12-06 02:02:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 31.734 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 31.990 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.730 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.244 ms
Loss rate: 0.39%
```

Run 4: Report of SCReAM — Data Link

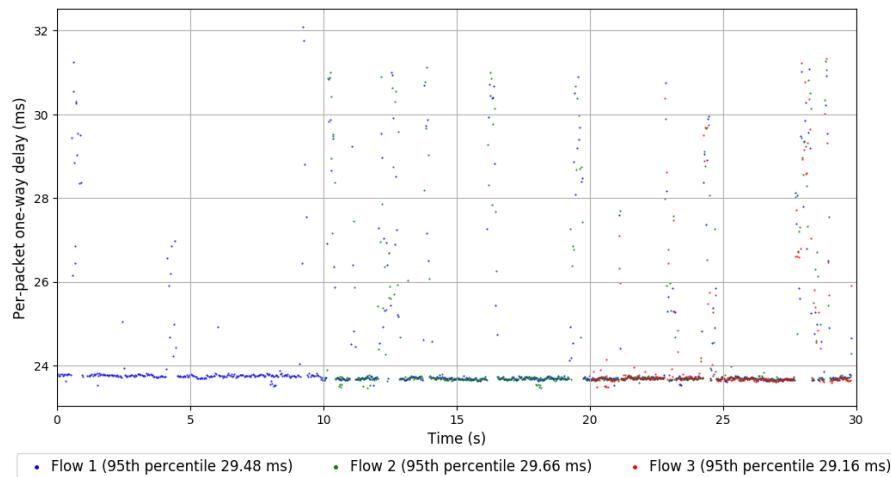
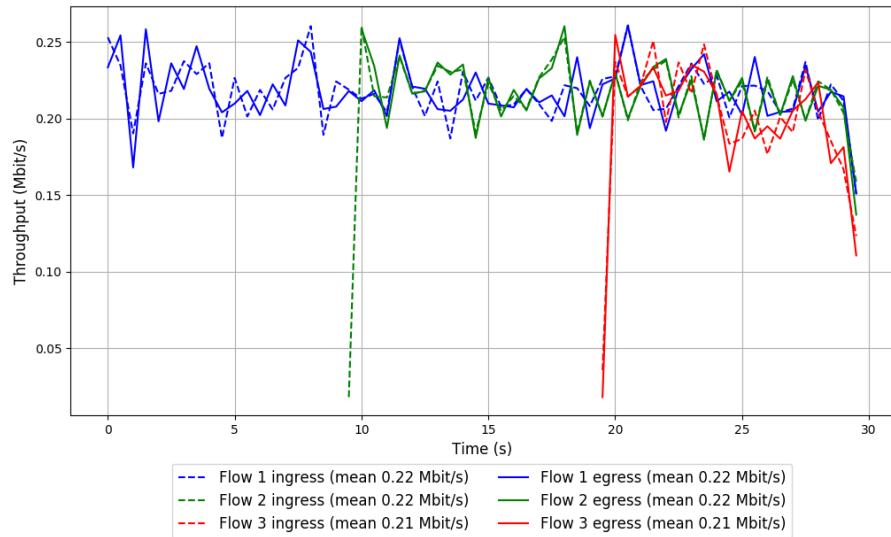


Run 5: Statistics of SCReAM

```
Start at: 2017-12-05 20:20:26
End at: 2017-12-05 20:20:56
Local clock offset: -0.61 ms
Remote clock offset: -1.769 ms

# Below is generated by plot.py at 2017-12-06 02:02:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 29.497 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 29.483 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 29.659 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 29.159 ms
Loss rate: 0.71%
```

Run 5: Report of SCReAM — Data Link

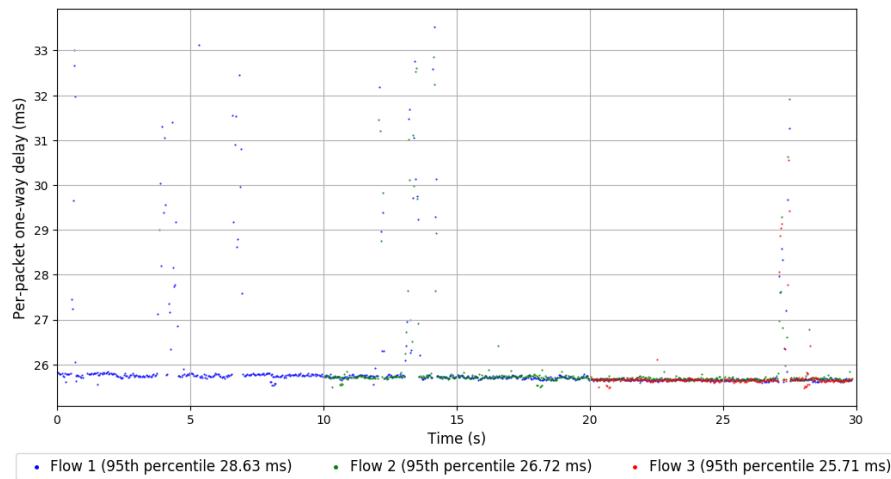
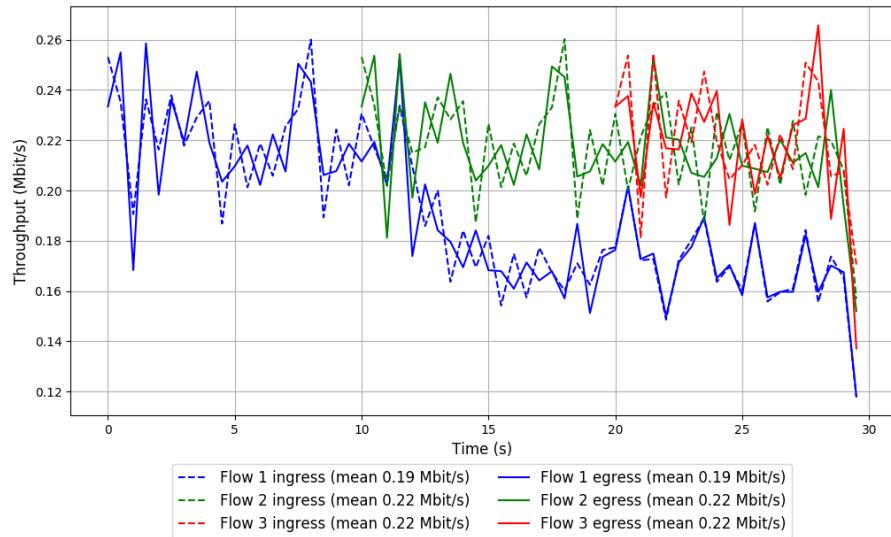


Run 6: Statistics of SCReAM

```
Start at: 2017-12-05 20:40:05
End at: 2017-12-05 20:40:35
Local clock offset: -0.754 ms
Remote clock offset: -4.311 ms

# Below is generated by plot.py at 2017-12-06 02:02:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 27.358 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 28.628 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 26.723 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 25.712 ms
Loss rate: 0.76%
```

Run 6: Report of SCReAM — Data Link

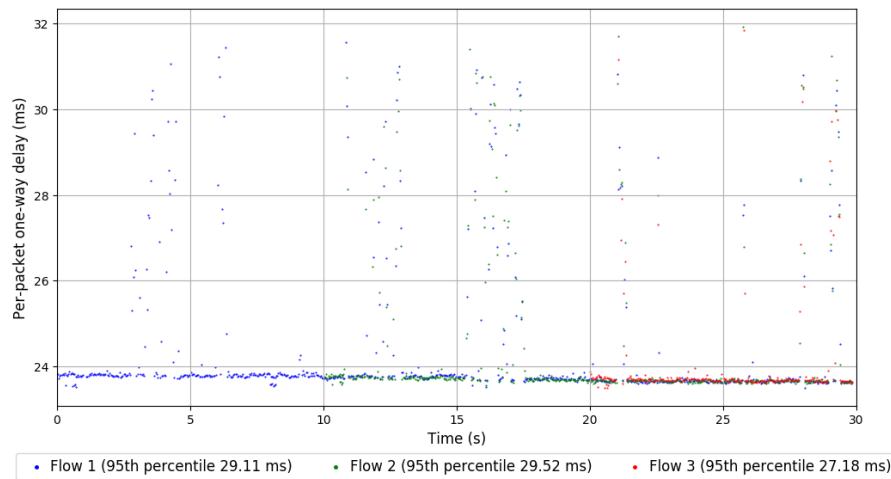
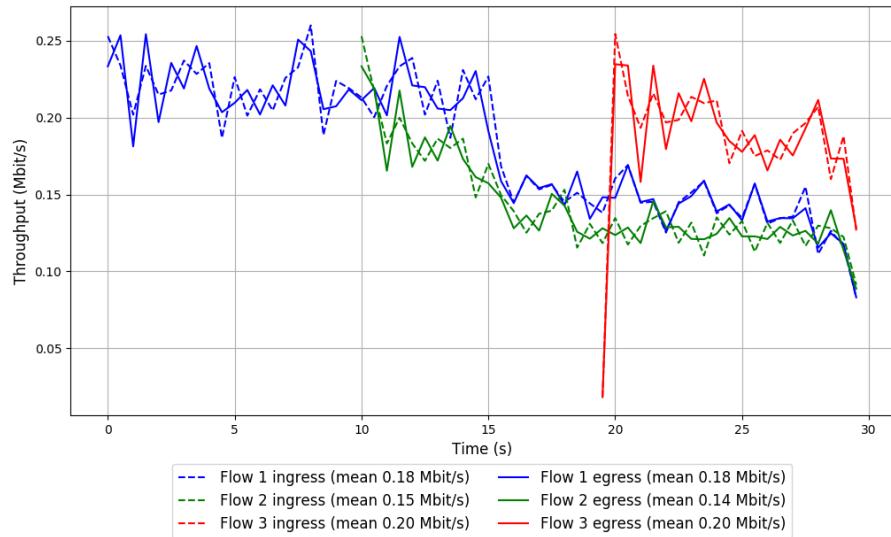


Run 7: Statistics of SCReAM

```
Start at: 2017-12-05 21:00:03
End at: 2017-12-05 21:00:33
Local clock offset: -0.693 ms
Remote clock offset: -2.695 ms

# Below is generated by plot.py at 2017-12-06 02:02:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 28.928 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 29.110 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 29.524 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 27.175 ms
Loss rate: 0.78%
```

Run 7: Report of SCReAM — Data Link

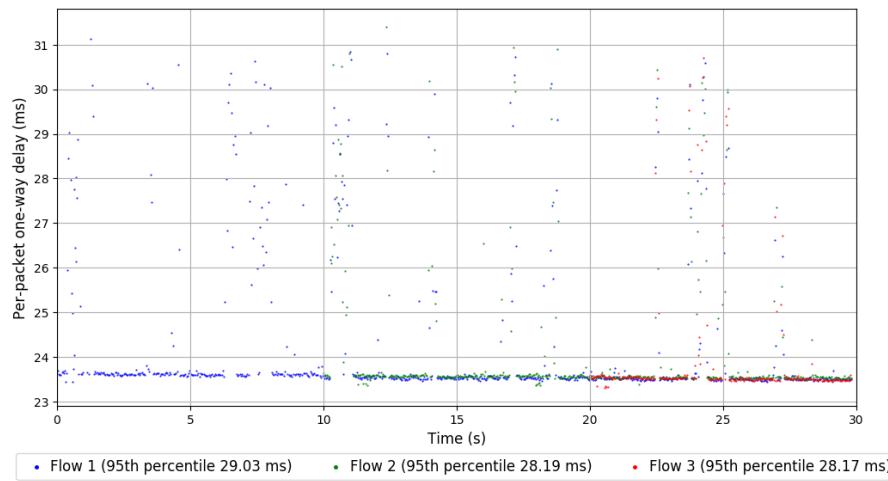
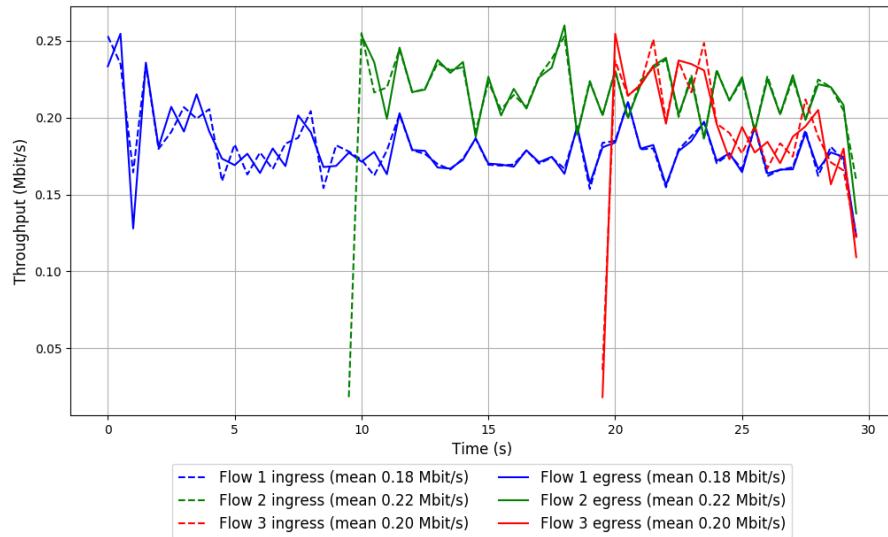


Run 8: Statistics of SCReAM

```
Start at: 2017-12-05 21:19:55
End at: 2017-12-05 21:20:25
Local clock offset: -0.653 ms
Remote clock offset: -3.375 ms

# Below is generated by plot.py at 2017-12-06 02:02:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 28.767 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 29.026 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.191 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 28.168 ms
Loss rate: 0.77%
```

Run 8: Report of SCReAM — Data Link

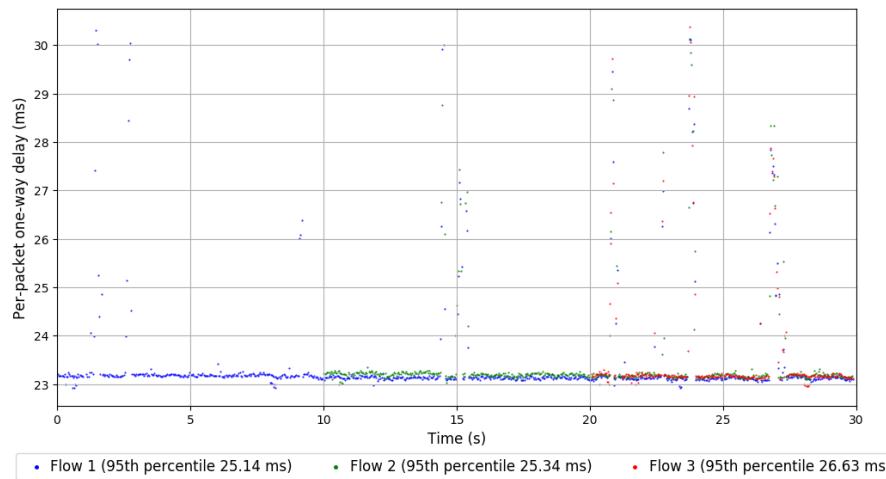
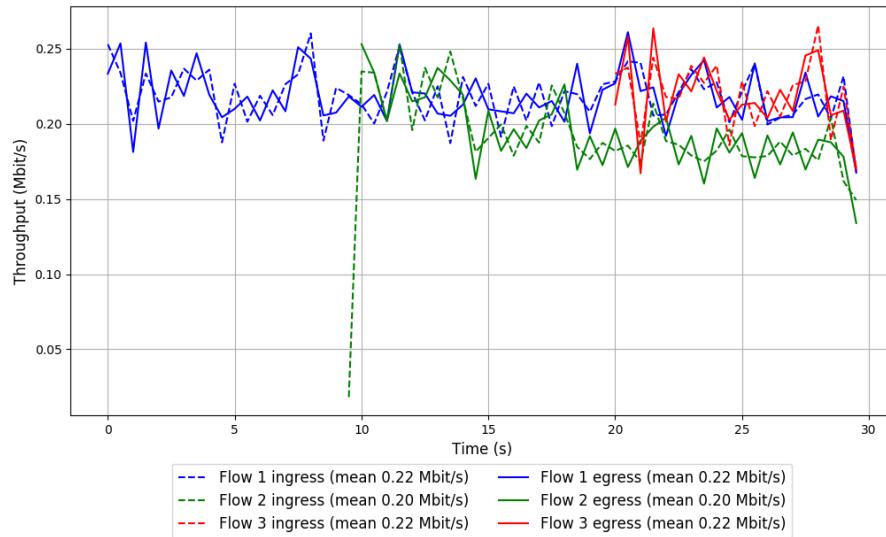


Run 9: Statistics of SCReAM

```
Start at: 2017-12-05 21:39:36
End at: 2017-12-05 21:40:06
Local clock offset: -0.502 ms
Remote clock offset: -3.408 ms

# Below is generated by plot.py at 2017-12-06 02:02:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 25.446 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 25.143 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 25.342 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 26.634 ms
Loss rate: 0.39%
```

Run 9: Report of SCReAM — Data Link

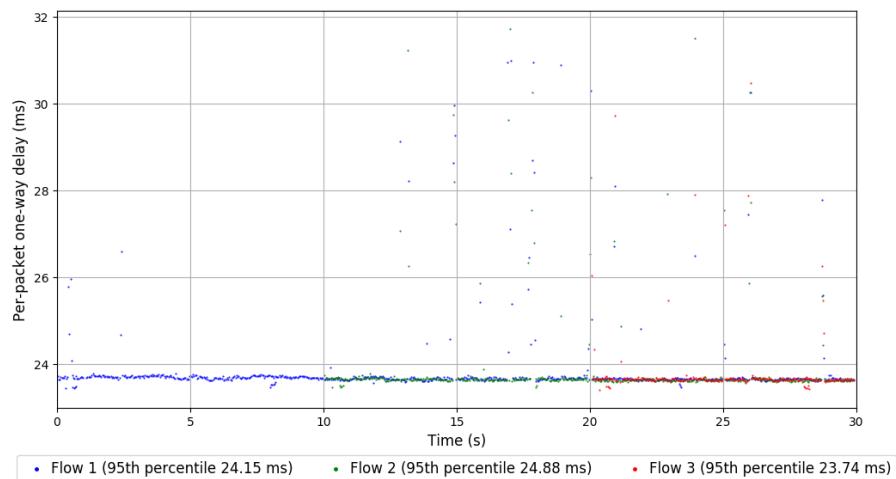
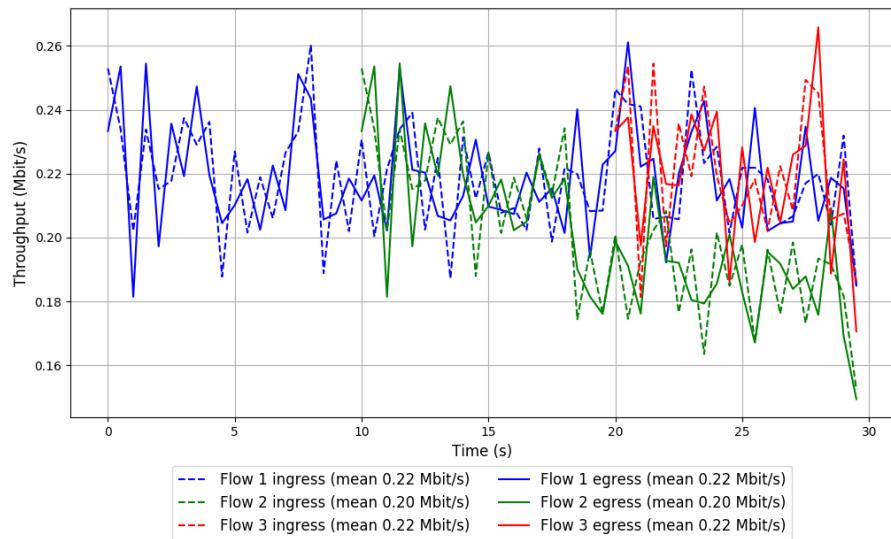


Run 10: Statistics of SCReAM

```
Start at: 2017-12-05 21:59:35
End at: 2017-12-05 22:00:05
Local clock offset: -0.327 ms
Remote clock offset: -3.14 ms

# Below is generated by plot.py at 2017-12-06 02:02:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 24.288 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 24.148 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 24.882 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.741 ms
Loss rate: 0.35%
```

Run 10: Report of SCReAM — Data Link

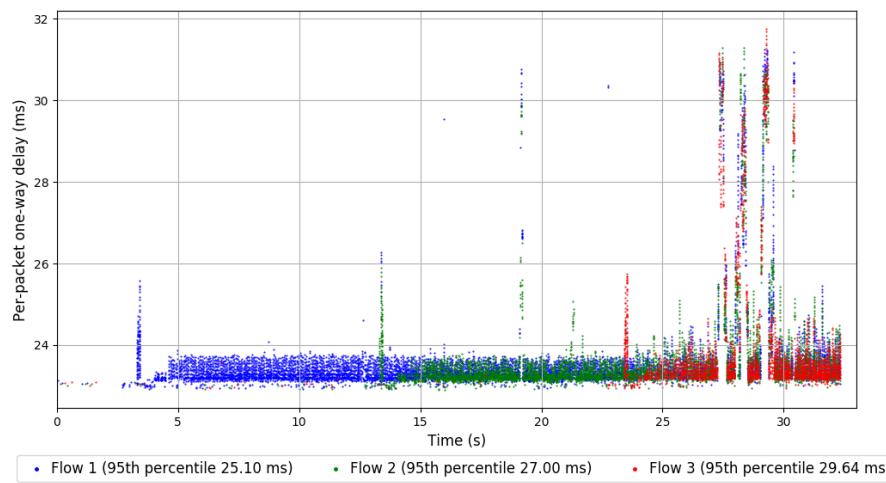
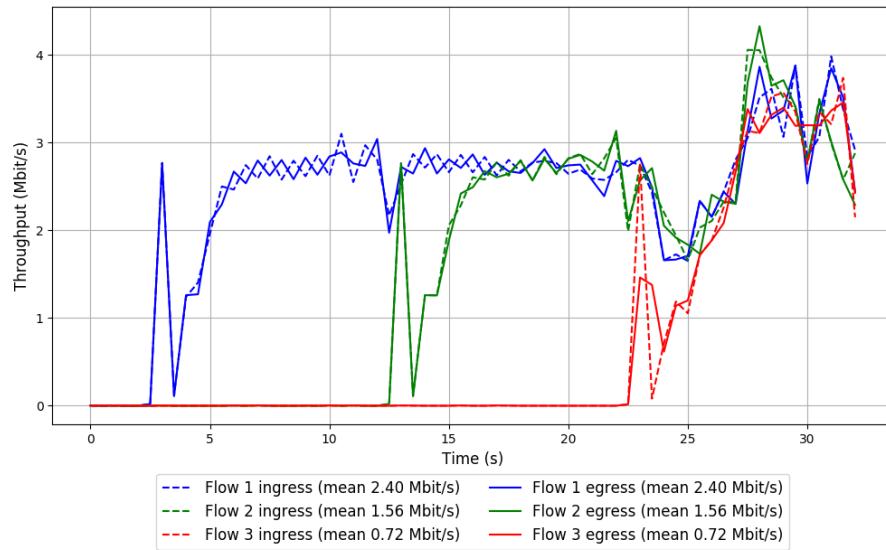


Run 1: Statistics of WebRTC media

```
Start at: 2017-12-05 19:05:32
End at: 2017-12-05 19:06:02
Local clock offset: -0.693 ms
Remote clock offset: -2.797 ms

# Below is generated by plot.py at 2017-12-06 02:02:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.66 Mbit/s
95th percentile per-packet one-way delay: 27.283 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 25.101 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 1.56 Mbit/s
95th percentile per-packet one-way delay: 26.998 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 0.72 Mbit/s
95th percentile per-packet one-way delay: 29.644 ms
Loss rate: 0.25%
```

Run 1: Report of WebRTC media — Data Link

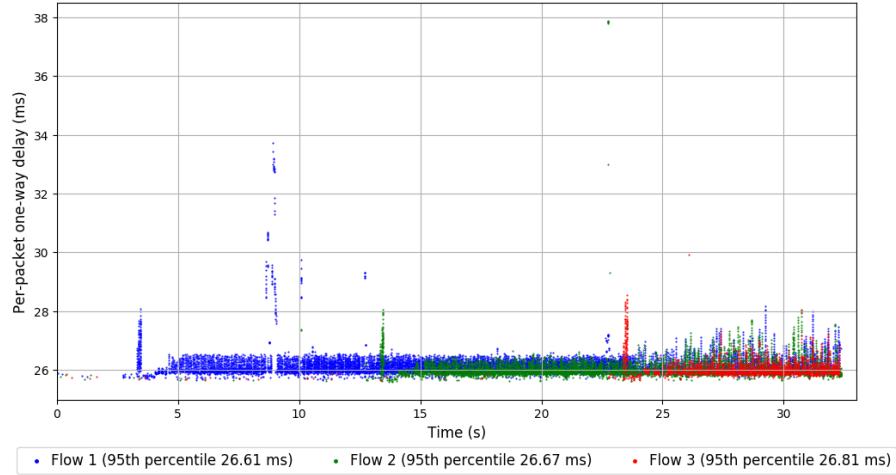
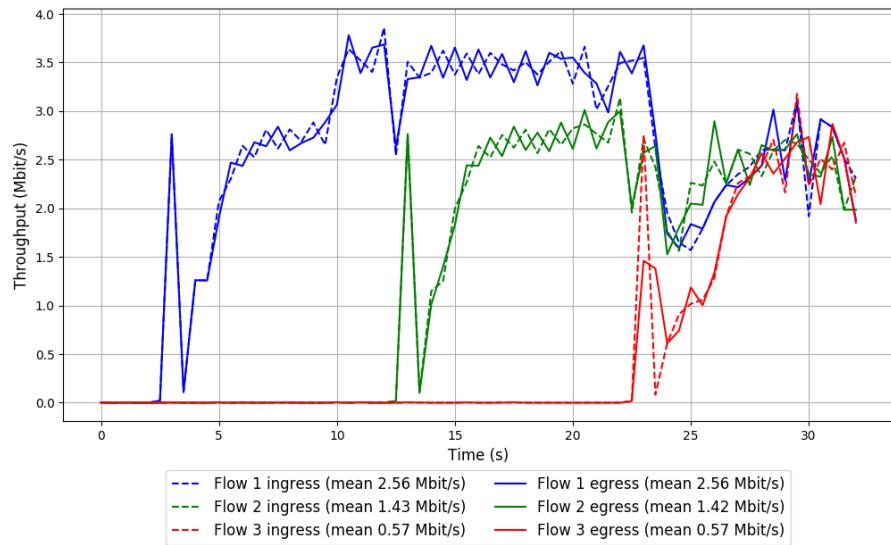


Run 2: Statistics of WebRTC media

```
Start at: 2017-12-05 19:25:12
End at: 2017-12-05 19:25:42
Local clock offset: -0.55 ms
Remote clock offset: -5.204 ms

# Below is generated by plot.py at 2017-12-06 02:02:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.54 Mbit/s
95th percentile per-packet one-way delay: 26.659 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 2.56 Mbit/s
95th percentile per-packet one-way delay: 26.615 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 26.670 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 26.814 ms
Loss rate: 1.16%
```

Run 2: Report of WebRTC media — Data Link

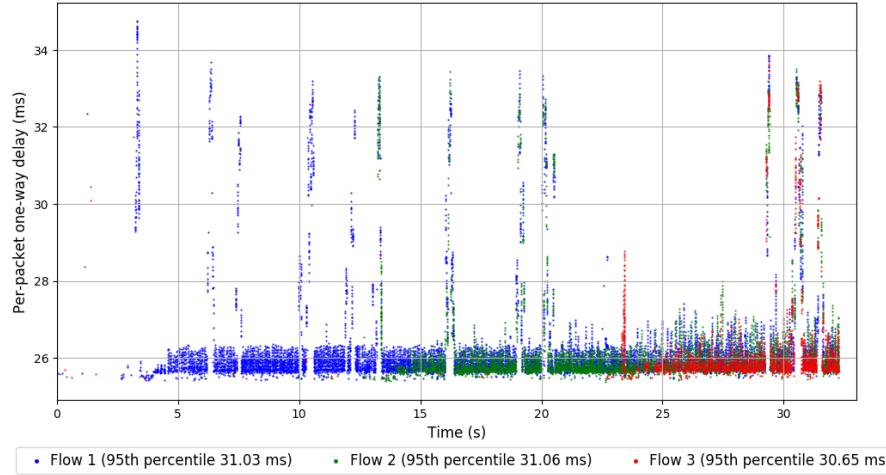
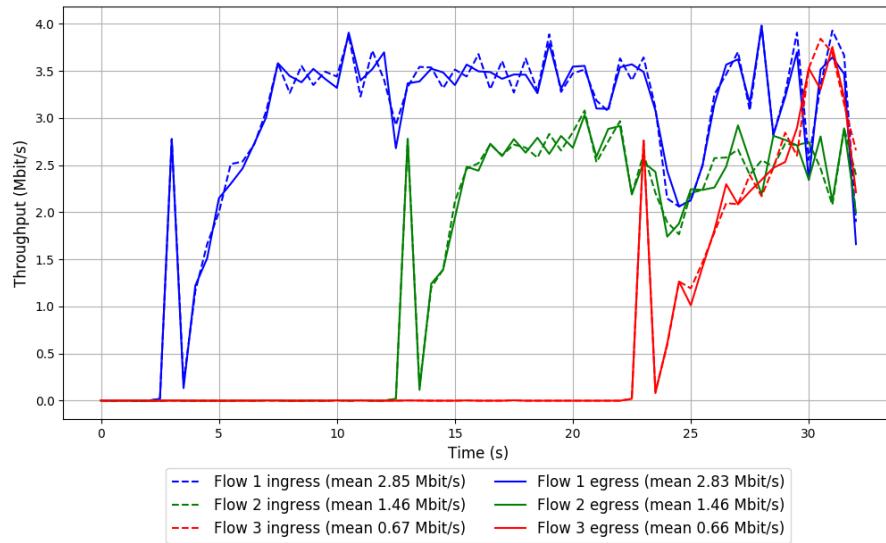


Run 3: Statistics of WebRTC media

```
Start at: 2017-12-05 19:45:00
End at: 2017-12-05 19:45:30
Local clock offset: -0.675 ms
Remote clock offset: -4.668 ms

# Below is generated by plot.py at 2017-12-06 02:02:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.93 Mbit/s
95th percentile per-packet one-way delay: 30.992 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 2.83 Mbit/s
95th percentile per-packet one-way delay: 31.034 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 31.057 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 30.654 ms
Loss rate: 2.04%
```

Run 3: Report of WebRTC media — Data Link

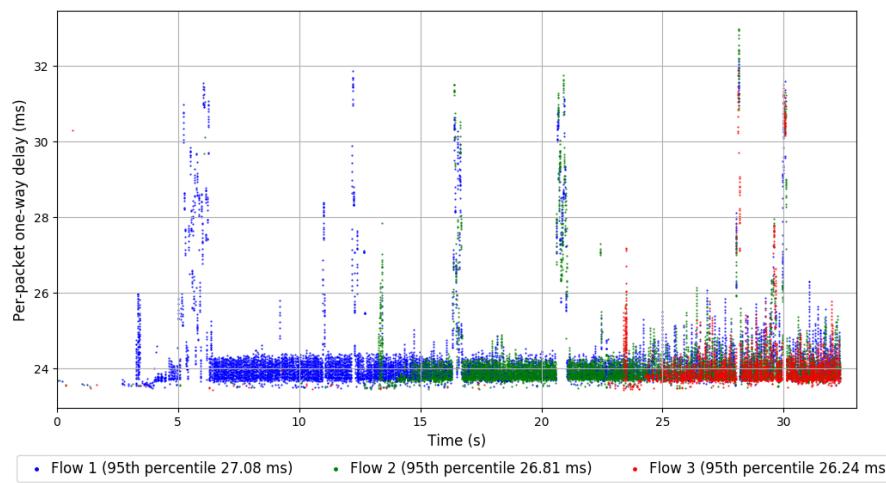
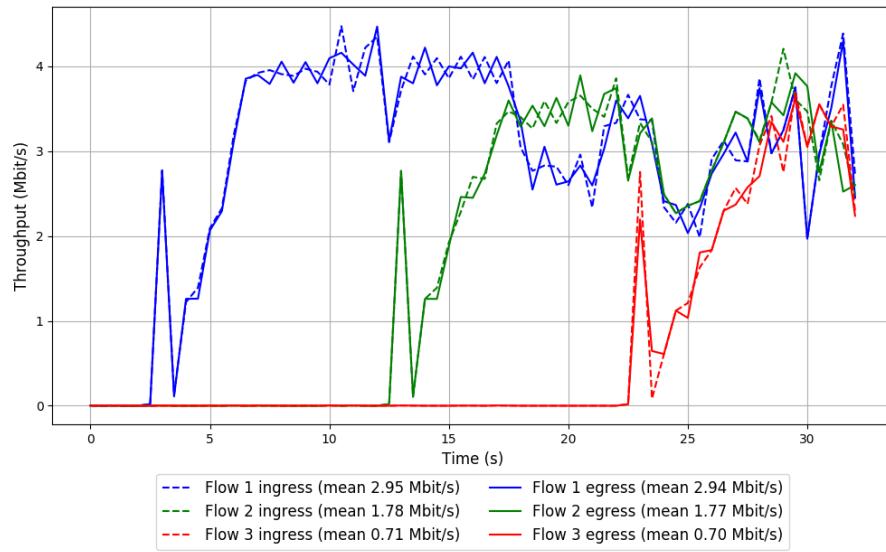


Run 4: Statistics of WebRTC media

```
Start at: 2017-12-05 20:04:55
End at: 2017-12-05 20:05:25
Local clock offset: -0.602 ms
Remote clock offset: -1.985 ms

# Below is generated by plot.py at 2017-12-06 02:02:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.39 Mbit/s
95th percentile per-packet one-way delay: 26.891 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 2.94 Mbit/s
95th percentile per-packet one-way delay: 27.084 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 1.77 Mbit/s
95th percentile per-packet one-way delay: 26.809 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 0.70 Mbit/s
95th percentile per-packet one-way delay: 26.242 ms
Loss rate: 1.11%
```

Run 4: Report of WebRTC media — Data Link

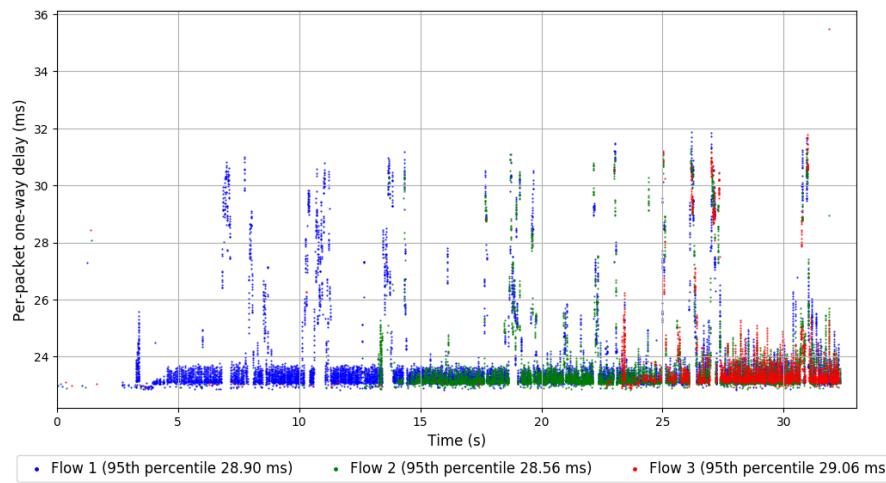
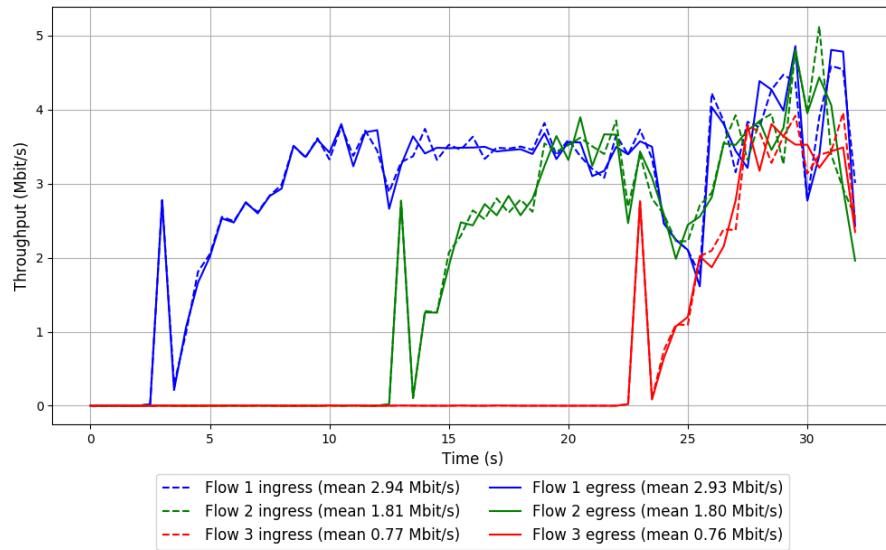


Run 5: Statistics of WebRTC media

```
Start at: 2017-12-05 20:24:38
End at: 2017-12-05 20:25:08
Local clock offset: -0.742 ms
Remote clock offset: -1.376 ms

# Below is generated by plot.py at 2017-12-06 02:02:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.47 Mbit/s
95th percentile per-packet one-way delay: 28.852 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 2.93 Mbit/s
95th percentile per-packet one-way delay: 28.897 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 1.80 Mbit/s
95th percentile per-packet one-way delay: 28.564 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 0.76 Mbit/s
95th percentile per-packet one-way delay: 29.060 ms
Loss rate: 1.78%
```

Run 5: Report of WebRTC media — Data Link

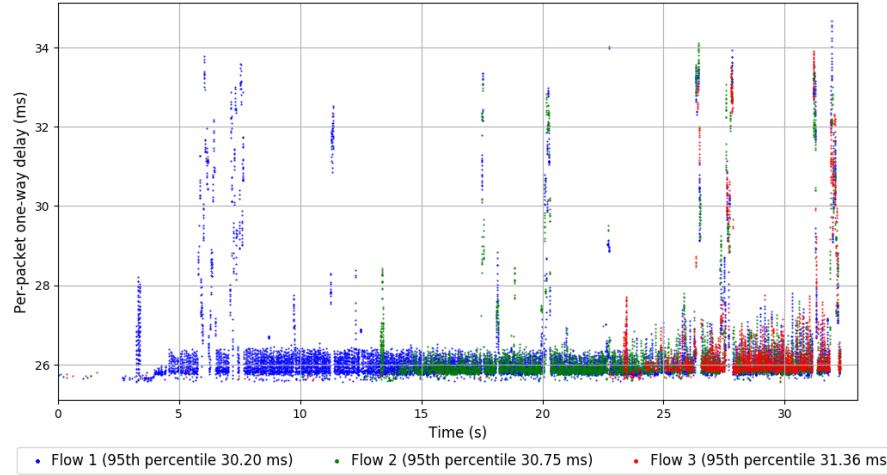
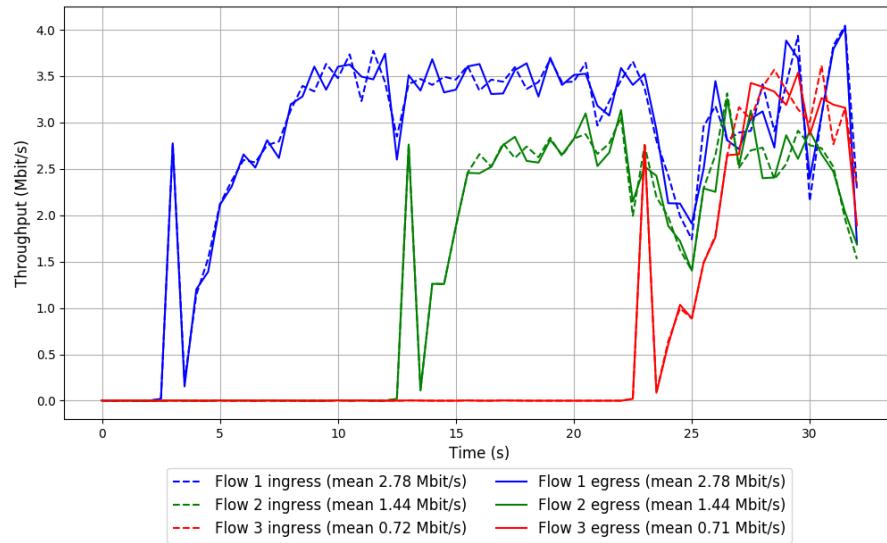


Run 6: Statistics of WebRTC media

```
Start at: 2017-12-05 20:44:15
End at: 2017-12-05 20:44:45
Local clock offset: -0.679 ms
Remote clock offset: -4.463 ms

# Below is generated by plot.py at 2017-12-06 02:02:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.91 Mbit/s
95th percentile per-packet one-way delay: 30.593 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 2.78 Mbit/s
95th percentile per-packet one-way delay: 30.200 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 30.753 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 0.71 Mbit/s
95th percentile per-packet one-way delay: 31.359 ms
Loss rate: 1.34%
```

Run 6: Report of WebRTC media — Data Link

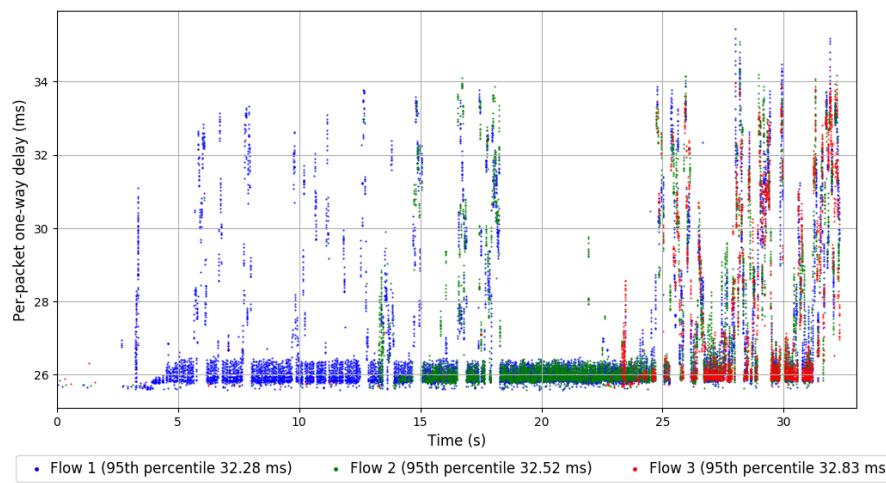
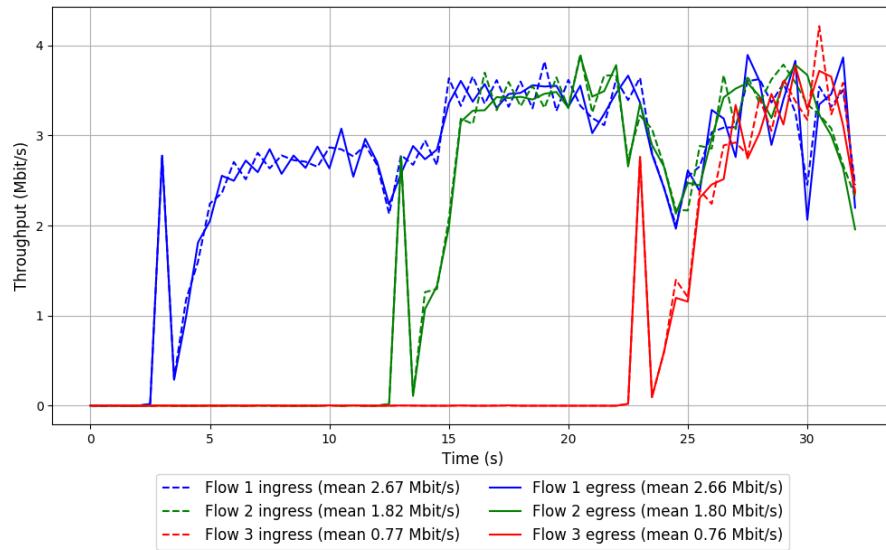


Run 7: Statistics of WebRTC media

```
Start at: 2017-12-05 21:04:15
End at: 2017-12-05 21:04:45
Local clock offset: -0.695 ms
Remote clock offset: -4.946 ms

# Below is generated by plot.py at 2017-12-06 02:02:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.21 Mbit/s
95th percentile per-packet one-way delay: 32.478 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 2.66 Mbit/s
95th percentile per-packet one-way delay: 32.285 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 1.80 Mbit/s
95th percentile per-packet one-way delay: 32.516 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 0.76 Mbit/s
95th percentile per-packet one-way delay: 32.832 ms
Loss rate: 1.33%
```

Run 7: Report of WebRTC media — Data Link

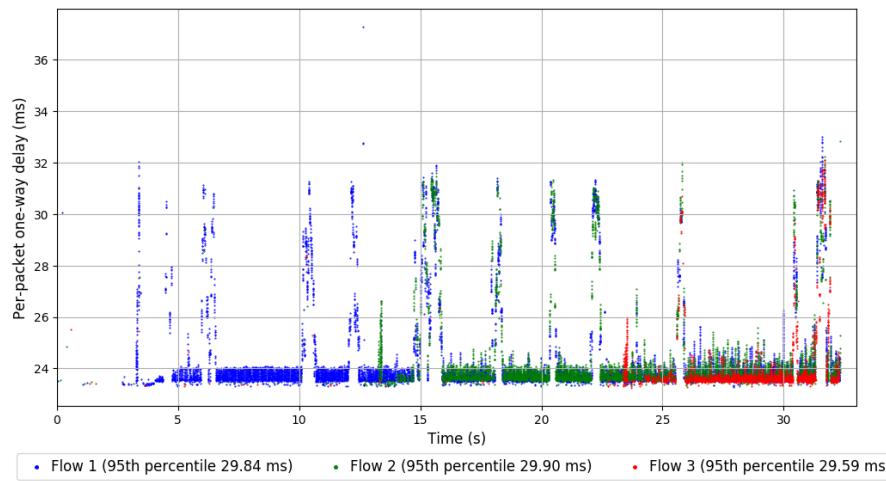
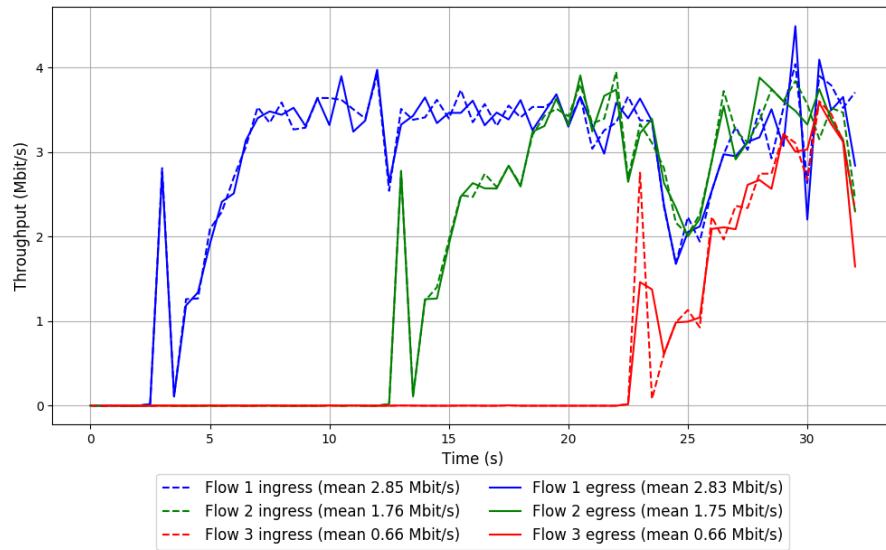


Run 8: Statistics of WebRTC media

```
Start at: 2017-12-05 21:24:05
End at: 2017-12-05 21:24:35
Local clock offset: -0.619 ms
Remote clock offset: -3.553 ms

# Below is generated by plot.py at 2017-12-06 02:02:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.21 Mbit/s
95th percentile per-packet one-way delay: 29.840 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 2.83 Mbit/s
95th percentile per-packet one-way delay: 29.840 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 1.75 Mbit/s
95th percentile per-packet one-way delay: 29.902 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 29.587 ms
Loss rate: 1.95%
```

Run 8: Report of WebRTC media — Data Link

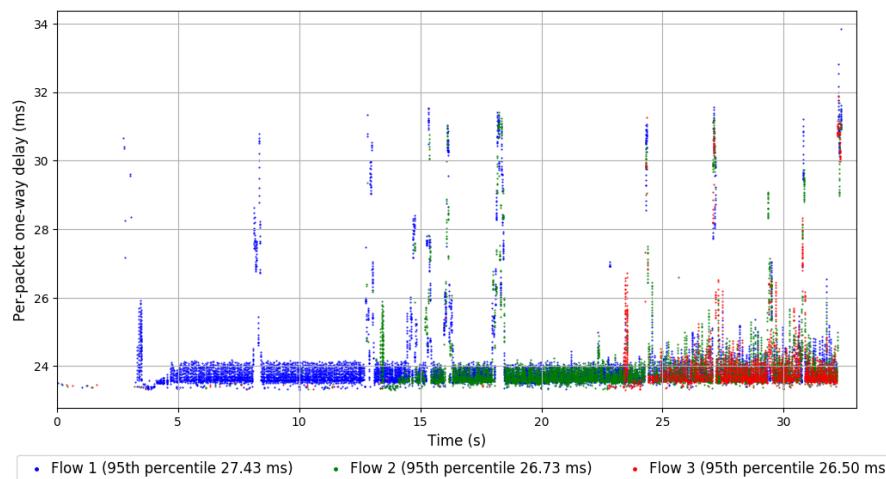
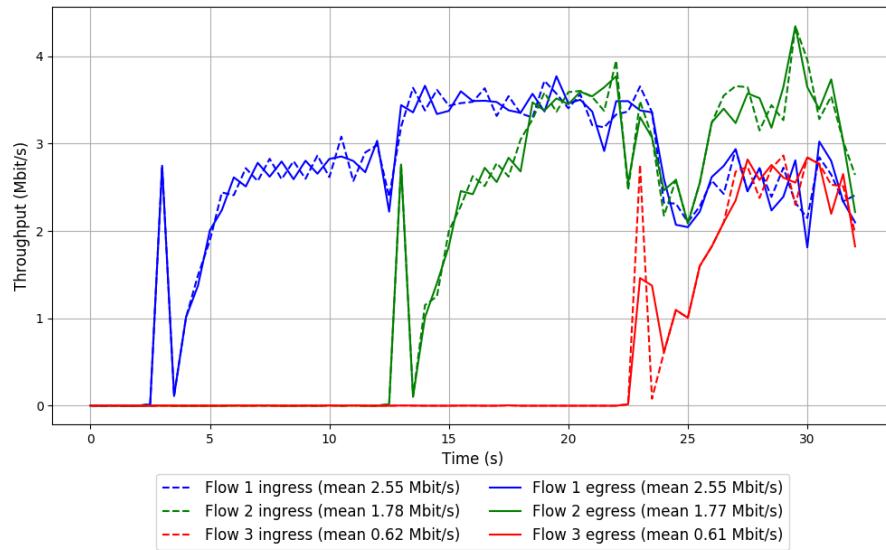


Run 9: Statistics of WebRTC media

```
Start at: 2017-12-05 21:43:57
End at: 2017-12-05 21:44:27
Local clock offset: -0.473 ms
Remote clock offset: -3.727 ms

# Below is generated by plot.py at 2017-12-06 02:02:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.91 Mbit/s
95th percentile per-packet one-way delay: 27.017 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 27.430 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 1.77 Mbit/s
95th percentile per-packet one-way delay: 26.731 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 26.502 ms
Loss rate: 0.90%
```

Run 9: Report of WebRTC media — Data Link

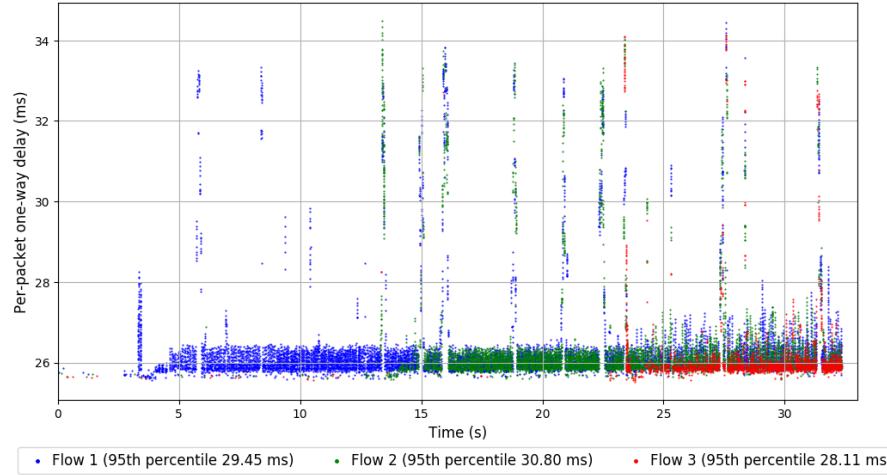
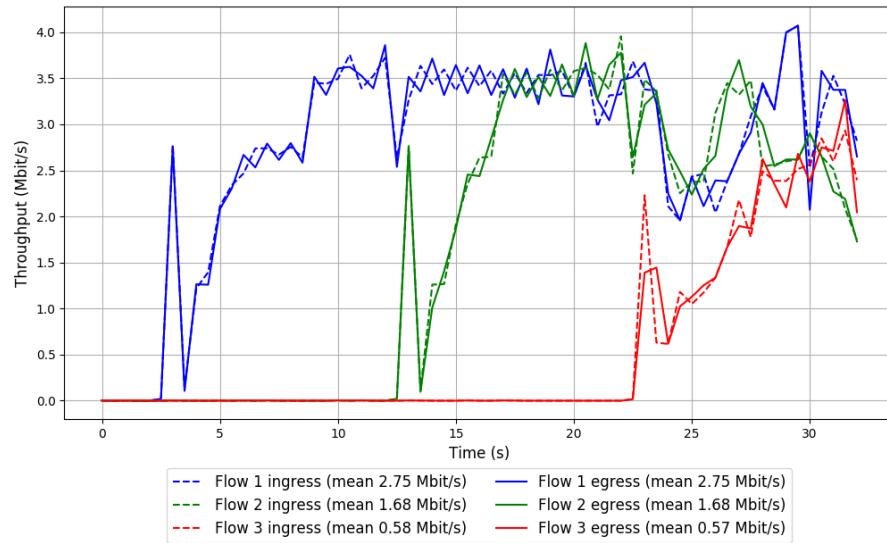


```
Run 10: Statistics of WebRTC media
```

```
Start at: 2017-12-05 22:03:50
End at: 2017-12-05 22:04:20
Local clock offset: -0.308 ms
Remote clock offset: -5.053 ms

# Below is generated by plot.py at 2017-12-06 02:02:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.99 Mbit/s
95th percentile per-packet one-way delay: 30.017 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 2.75 Mbit/s
95th percentile per-packet one-way delay: 29.451 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 1.68 Mbit/s
95th percentile per-packet one-way delay: 30.800 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 28.111 ms
Loss rate: 1.15%
```

Run 10: Report of WebRTC media — Data Link

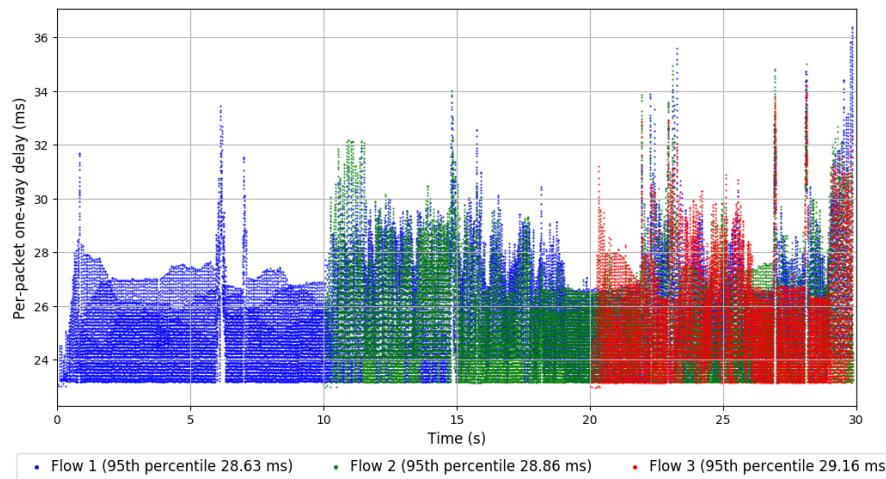
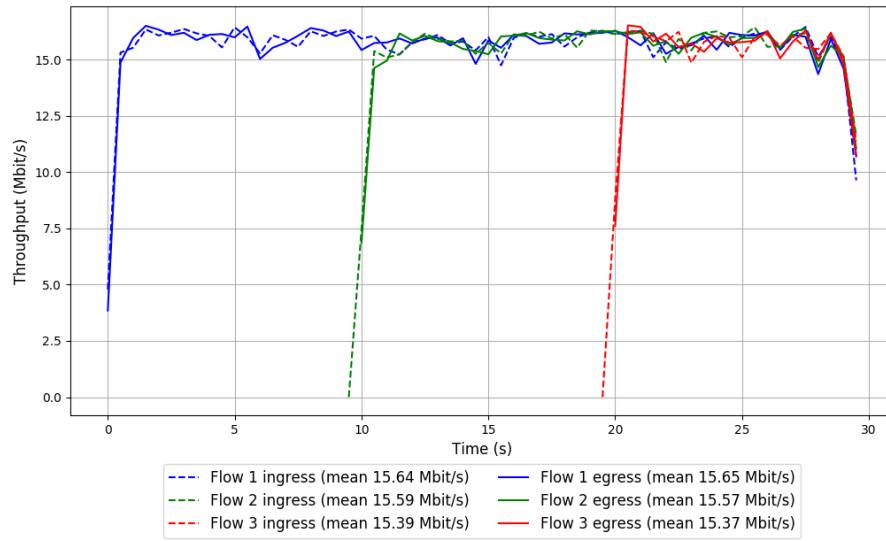


Run 1: Statistics of Sprout

```
Start at: 2017-12-05 19:11:11
End at: 2017-12-05 19:11:41
Local clock offset: -0.677 ms
Remote clock offset: -2.778 ms

# Below is generated by plot.py at 2017-12-06 02:02:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.08 Mbit/s
95th percentile per-packet one-way delay: 28.795 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 15.65 Mbit/s
95th percentile per-packet one-way delay: 28.629 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 15.57 Mbit/s
95th percentile per-packet one-way delay: 28.860 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 15.37 Mbit/s
95th percentile per-packet one-way delay: 29.161 ms
Loss rate: 0.66%
```

Run 1: Report of Sprout — Data Link

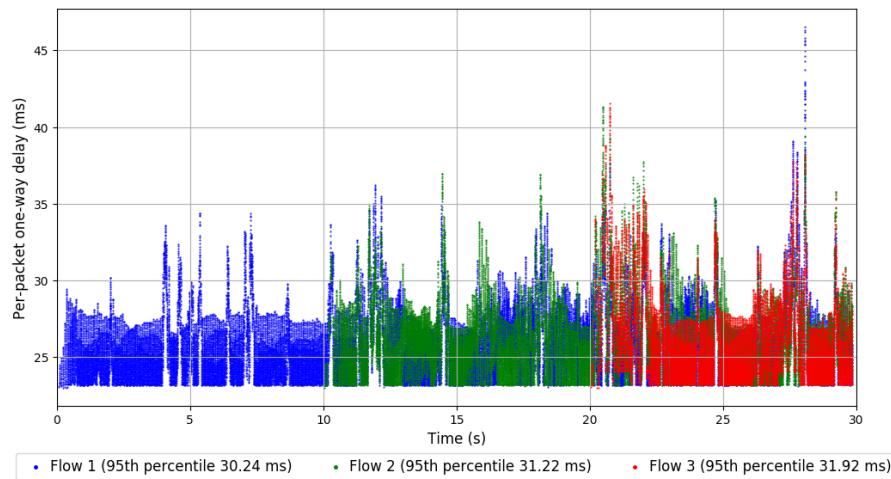
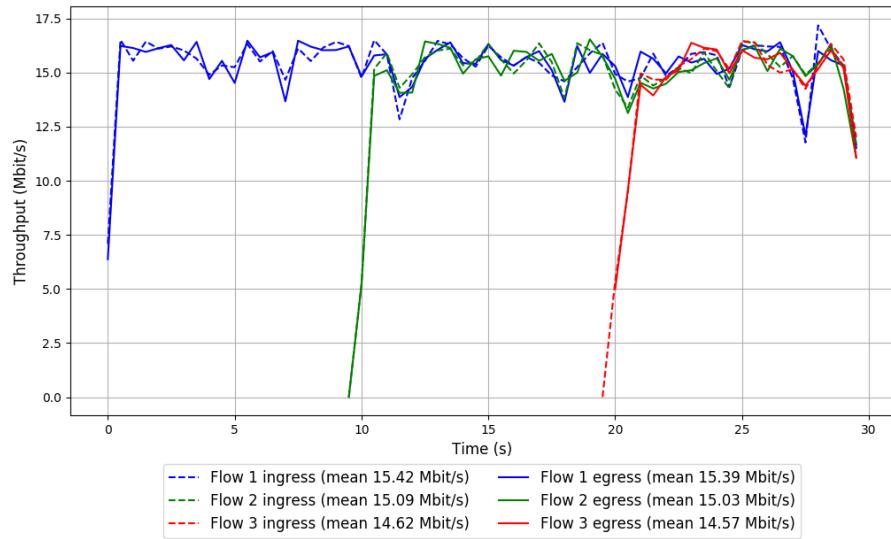


Run 2: Statistics of Sprout

```
Start at: 2017-12-05 19:30:53
End at: 2017-12-05 19:31:23
Local clock offset: -0.563 ms
Remote clock offset: -2.427 ms

# Below is generated by plot.py at 2017-12-06 02:02:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.19 Mbit/s
95th percentile per-packet one-way delay: 30.898 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 15.39 Mbit/s
95th percentile per-packet one-way delay: 30.237 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 15.03 Mbit/s
95th percentile per-packet one-way delay: 31.222 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 14.57 Mbit/s
95th percentile per-packet one-way delay: 31.920 ms
Loss rate: 0.88%
```

Run 2: Report of Sprout — Data Link

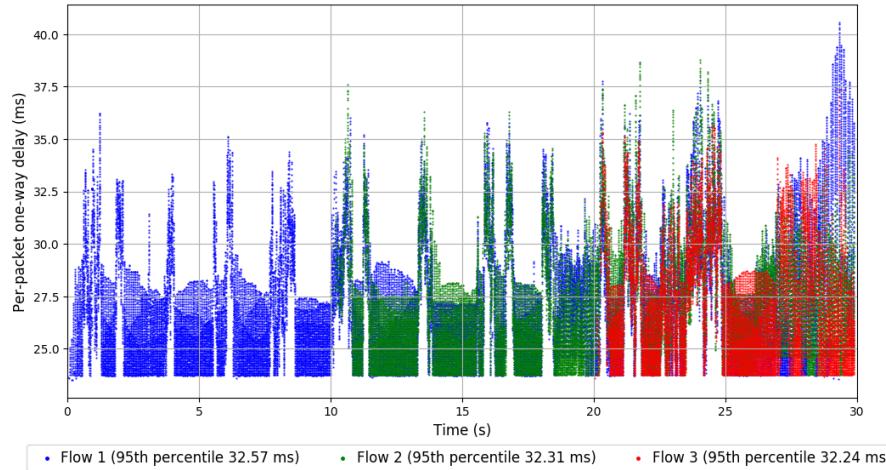
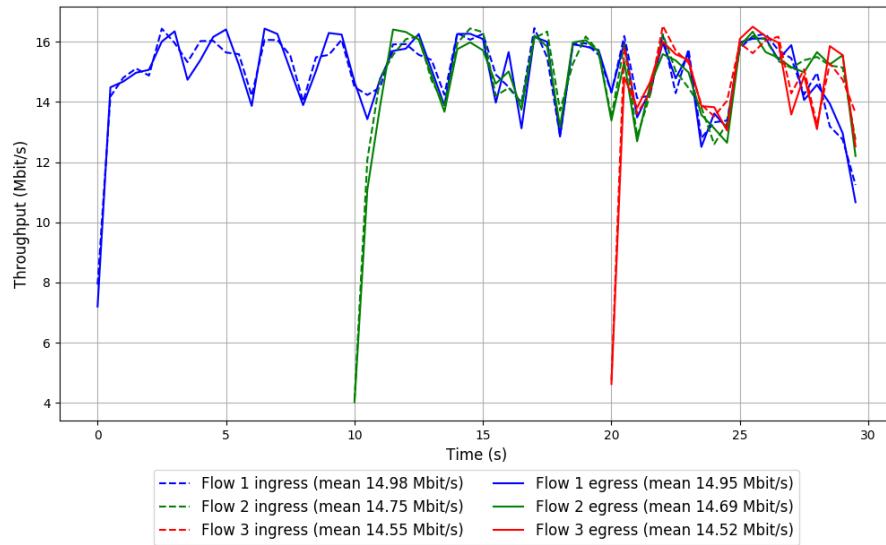


Run 3: Statistics of Sprout

```
Start at: 2017-12-05 19:50:46
End at: 2017-12-05 19:51:16
Local clock offset: -0.605 ms
Remote clock offset: -2.478 ms

# Below is generated by plot.py at 2017-12-06 02:02:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 29.50 Mbit/s
95th percentile per-packet one-way delay: 32.423 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 14.95 Mbit/s
95th percentile per-packet one-way delay: 32.566 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 14.69 Mbit/s
95th percentile per-packet one-way delay: 32.306 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 14.52 Mbit/s
95th percentile per-packet one-way delay: 32.243 ms
Loss rate: 0.59%
```

Run 3: Report of Sprout — Data Link

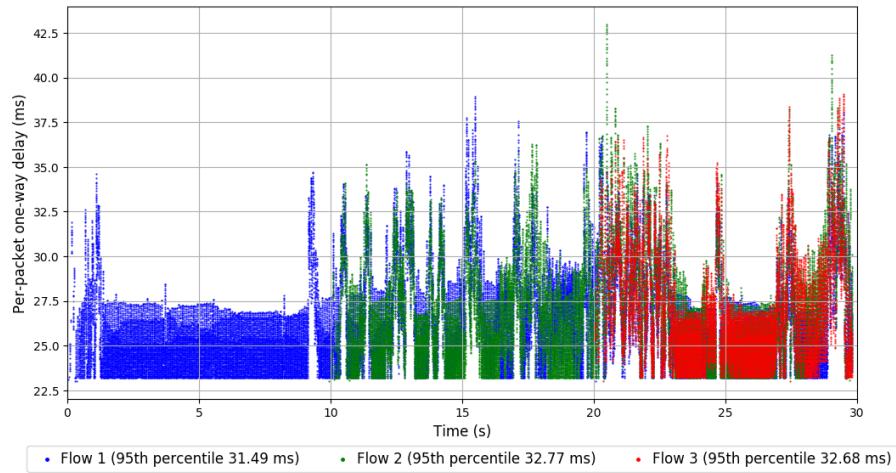
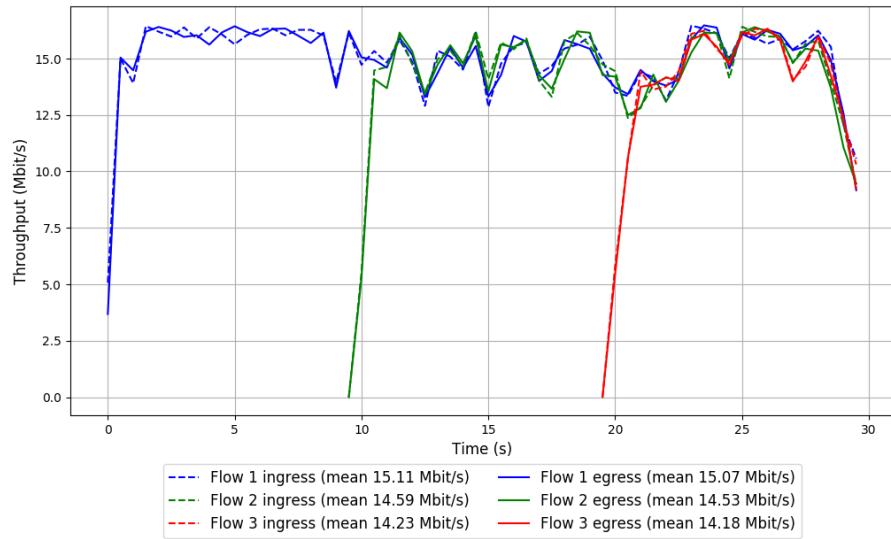


Run 4: Statistics of Sprout

```
Start at: 2017-12-05 20:10:28
End at: 2017-12-05 20:10:58
Local clock offset: -0.706 ms
Remote clock offset: -1.414 ms

# Below is generated by plot.py at 2017-12-06 02:02:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 29.43 Mbit/s
95th percentile per-packet one-way delay: 32.155 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 15.07 Mbit/s
95th percentile per-packet one-way delay: 31.486 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 14.53 Mbit/s
95th percentile per-packet one-way delay: 32.771 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 14.18 Mbit/s
95th percentile per-packet one-way delay: 32.676 ms
Loss rate: 0.98%
```

Run 4: Report of Sprout — Data Link

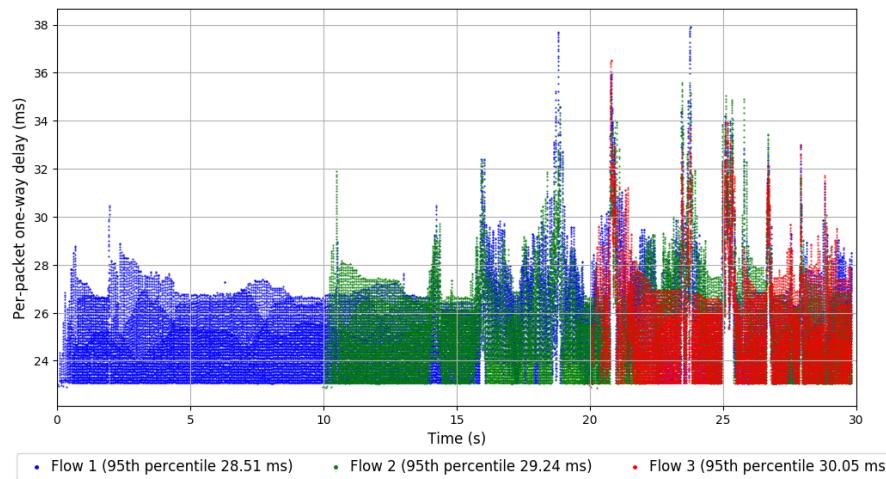
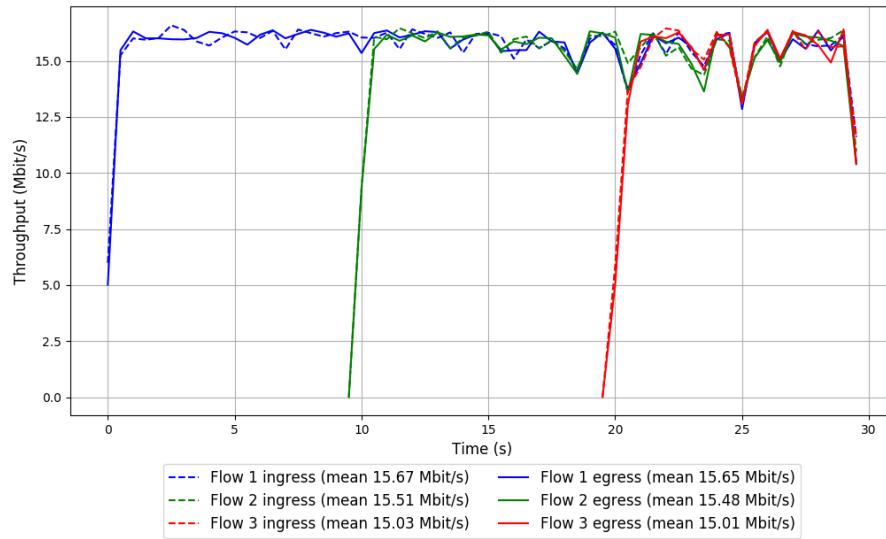


Run 5: Statistics of Sprout

```
Start at: 2017-12-05 20:30:24
End at: 2017-12-05 20:30:54
Local clock offset: -0.735 ms
Remote clock offset: -1.467 ms

# Below is generated by plot.py at 2017-12-06 02:02:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.91 Mbit/s
95th percentile per-packet one-way delay: 29.004 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 15.65 Mbit/s
95th percentile per-packet one-way delay: 28.512 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 15.48 Mbit/s
95th percentile per-packet one-way delay: 29.241 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 15.01 Mbit/s
95th percentile per-packet one-way delay: 30.054 ms
Loss rate: 0.72%
```

Run 5: Report of Sprout — Data Link

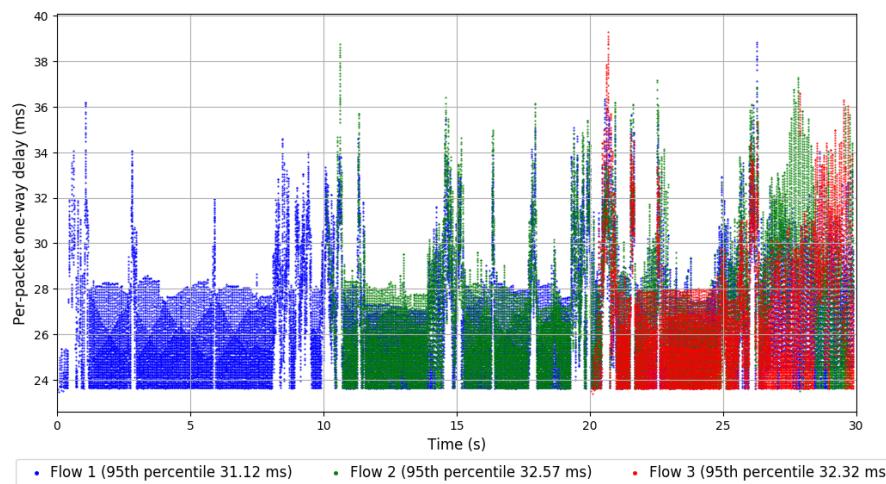
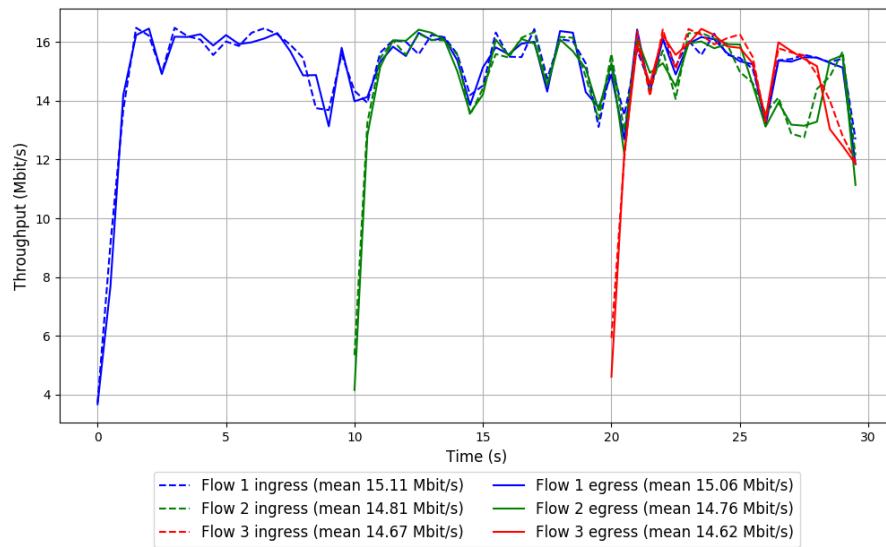


Run 6: Statistics of Sprout

```
Start at: 2017-12-05 20:49:59
End at: 2017-12-05 20:50:29
Local clock offset: -0.762 ms
Remote clock offset: -2.481 ms

# Below is generated by plot.py at 2017-12-06 02:02:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 29.68 Mbit/s
95th percentile per-packet one-way delay: 31.849 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 15.06 Mbit/s
95th percentile per-packet one-way delay: 31.124 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 14.76 Mbit/s
95th percentile per-packet one-way delay: 32.567 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 14.62 Mbit/s
95th percentile per-packet one-way delay: 32.316 ms
Loss rate: 0.93%
```

Run 6: Report of Sprout — Data Link

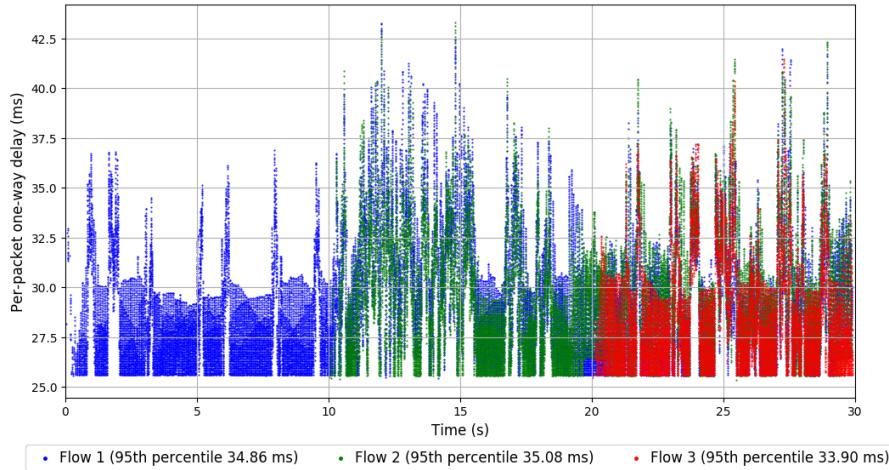
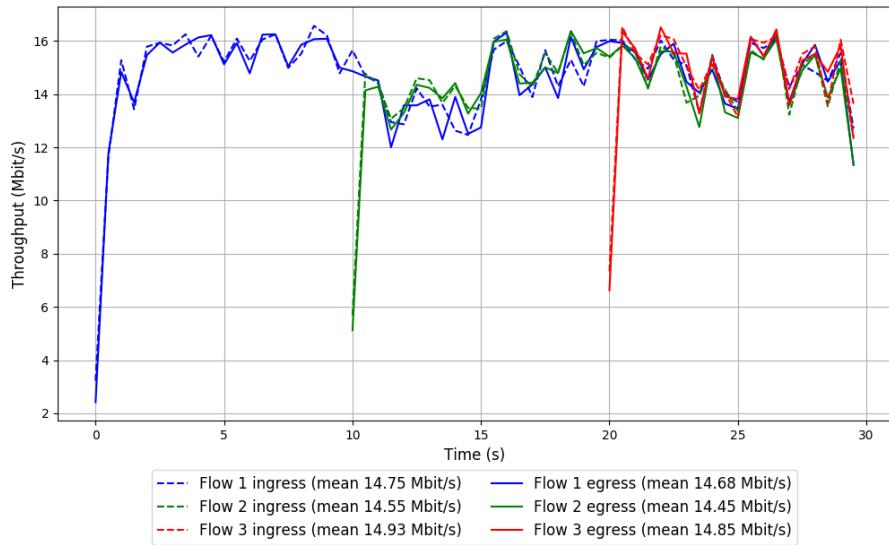


Run 7: Statistics of Sprout

```
Start at: 2017-12-05 21:10:06
End at: 2017-12-05 21:10:36
Local clock offset: -0.771 ms
Remote clock offset: -4.991 ms

# Below is generated by plot.py at 2017-12-06 02:02:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 29.18 Mbit/s
95th percentile per-packet one-way delay: 34.804 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 14.68 Mbit/s
95th percentile per-packet one-way delay: 34.858 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 14.45 Mbit/s
95th percentile per-packet one-way delay: 35.080 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 14.85 Mbit/s
95th percentile per-packet one-way delay: 33.895 ms
Loss rate: 0.92%
```

Run 7: Report of Sprout — Data Link

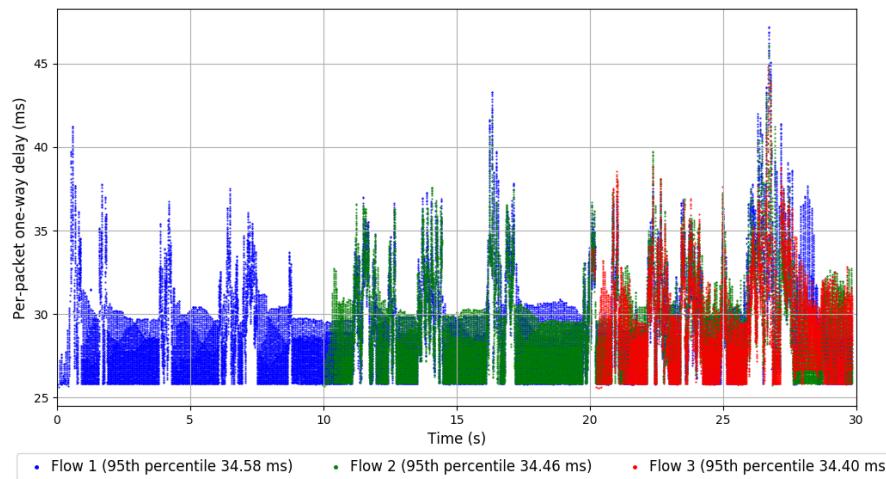
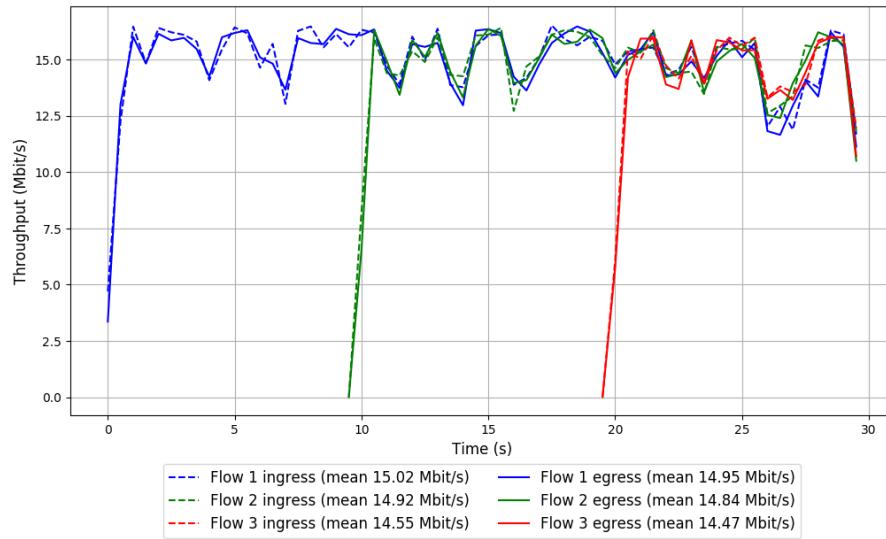


Run 8: Statistics of Sprout

```
Start at: 2017-12-05 21:29:52
End at: 2017-12-05 21:30:22
Local clock offset: -0.493 ms
Remote clock offset: -5.928 ms

# Below is generated by plot.py at 2017-12-06 02:02:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 29.60 Mbit/s
95th percentile per-packet one-way delay: 34.509 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 14.95 Mbit/s
95th percentile per-packet one-way delay: 34.580 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 14.84 Mbit/s
95th percentile per-packet one-way delay: 34.460 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 14.47 Mbit/s
95th percentile per-packet one-way delay: 34.396 ms
Loss rate: 1.13%
```

Run 8: Report of Sprout — Data Link

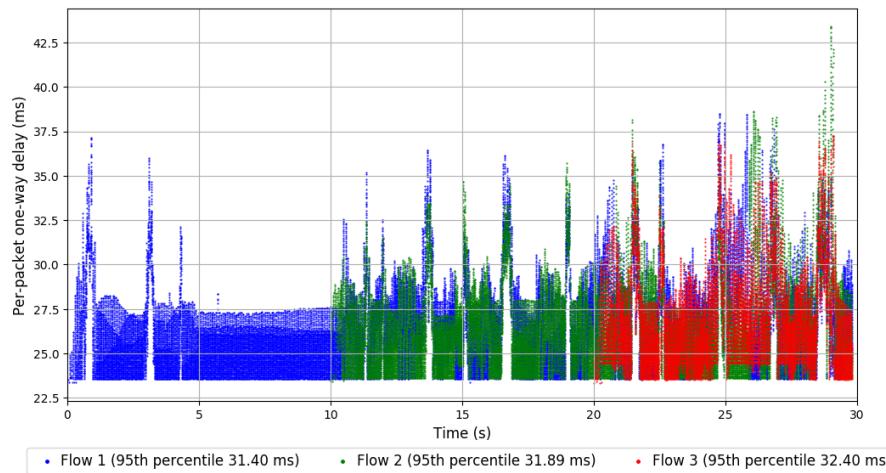
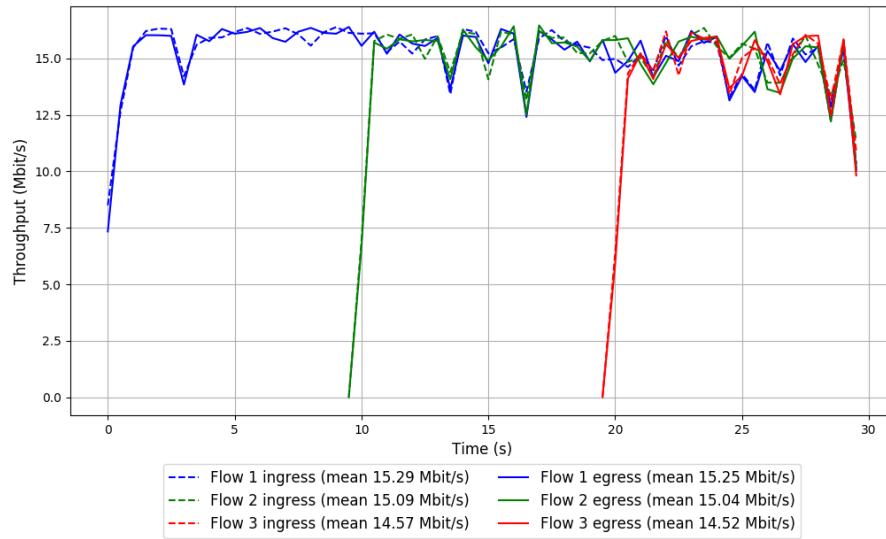


Run 9: Statistics of Sprout

```
Start at: 2017-12-05 21:49:39
End at: 2017-12-05 21:50:09
Local clock offset: -0.43 ms
Remote clock offset: -3.536 ms

# Below is generated by plot.py at 2017-12-06 02:02:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.07 Mbit/s
95th percentile per-packet one-way delay: 31.742 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 15.25 Mbit/s
95th percentile per-packet one-way delay: 31.403 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 15.04 Mbit/s
95th percentile per-packet one-way delay: 31.894 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 14.52 Mbit/s
95th percentile per-packet one-way delay: 32.395 ms
Loss rate: 0.97%
```

Run 9: Report of Sprout — Data Link

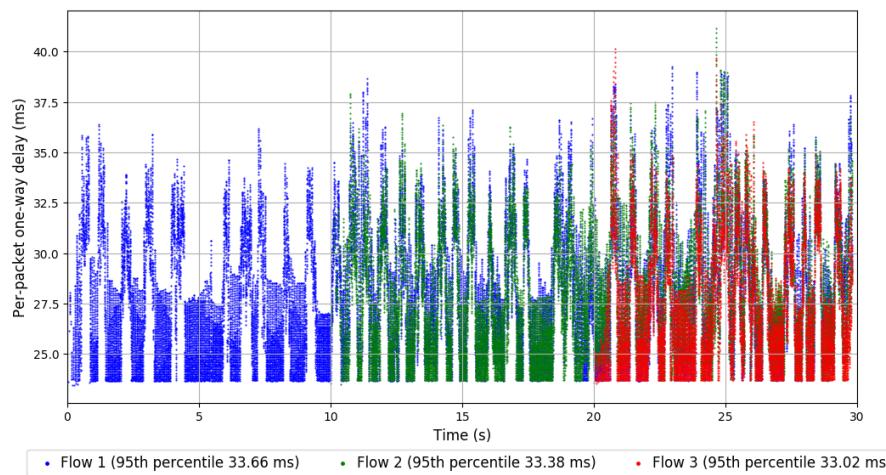
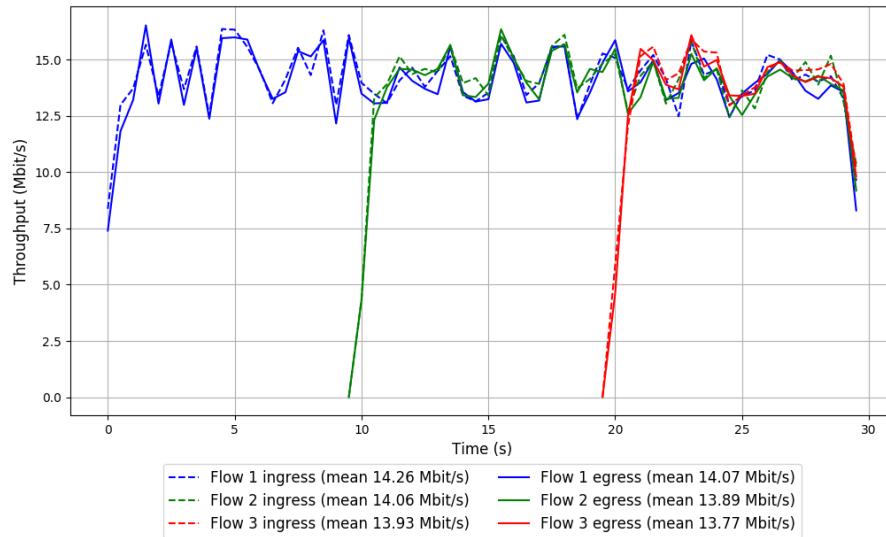


Run 10: Statistics of Sprout

```
Start at: 2017-12-05 22:09:44
End at: 2017-12-05 22:10:14
Local clock offset: -0.377 ms
Remote clock offset: -2.692 ms

# Below is generated by plot.py at 2017-12-06 02:02:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 27.87 Mbit/s
95th percentile per-packet one-way delay: 33.459 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 14.07 Mbit/s
95th percentile per-packet one-way delay: 33.658 ms
Loss rate: 1.52%
-- Flow 2:
Average throughput: 13.89 Mbit/s
95th percentile per-packet one-way delay: 33.383 ms
Loss rate: 1.48%
-- Flow 3:
Average throughput: 13.77 Mbit/s
95th percentile per-packet one-way delay: 33.020 ms
Loss rate: 1.73%
```

Run 10: Report of Sprout — Data Link

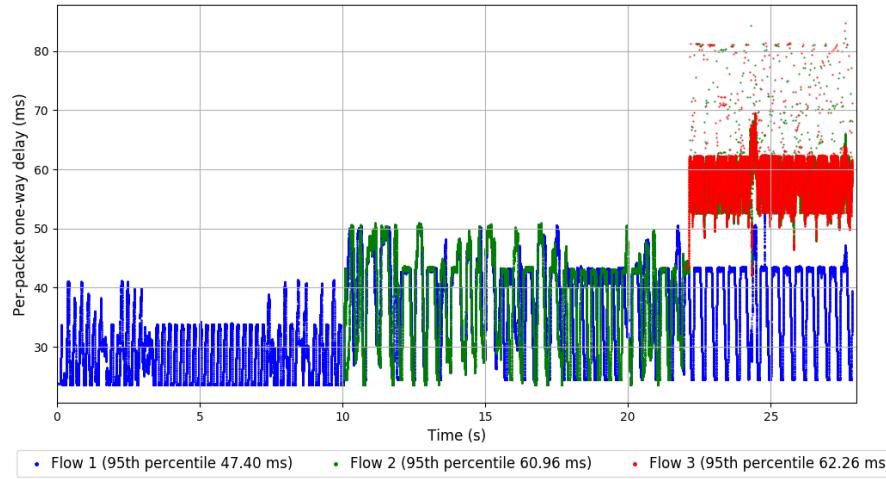
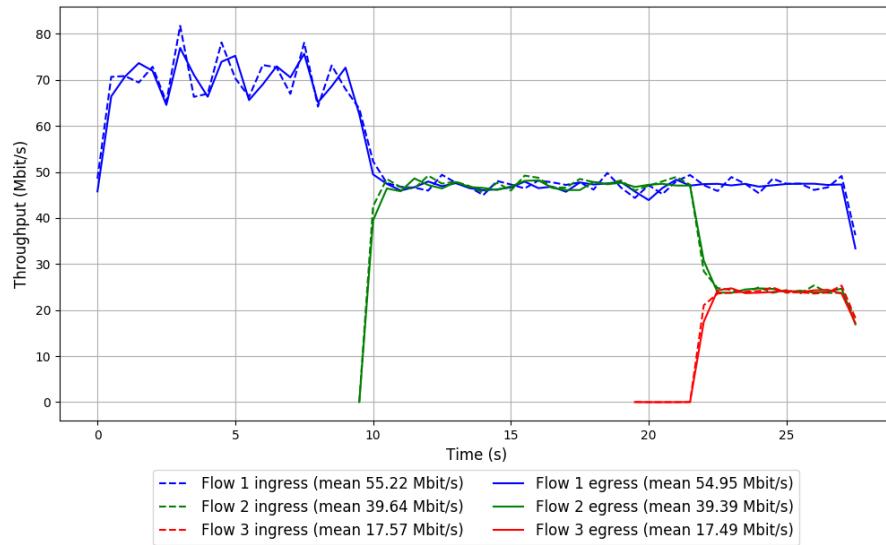


Run 1: Statistics of TaoVA-100x

```
Start at: 2017-12-05 19:04:02
End at: 2017-12-05 19:04:32
Local clock offset: -0.71 ms
Remote clock offset: -3.338 ms

# Below is generated by plot.py at 2017-12-06 02:04:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.23 Mbit/s
95th percentile per-packet one-way delay: 59.287 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 54.95 Mbit/s
95th percentile per-packet one-way delay: 47.401 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 39.39 Mbit/s
95th percentile per-packet one-way delay: 60.956 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 17.49 Mbit/s
95th percentile per-packet one-way delay: 62.258 ms
Loss rate: 1.67%
```

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

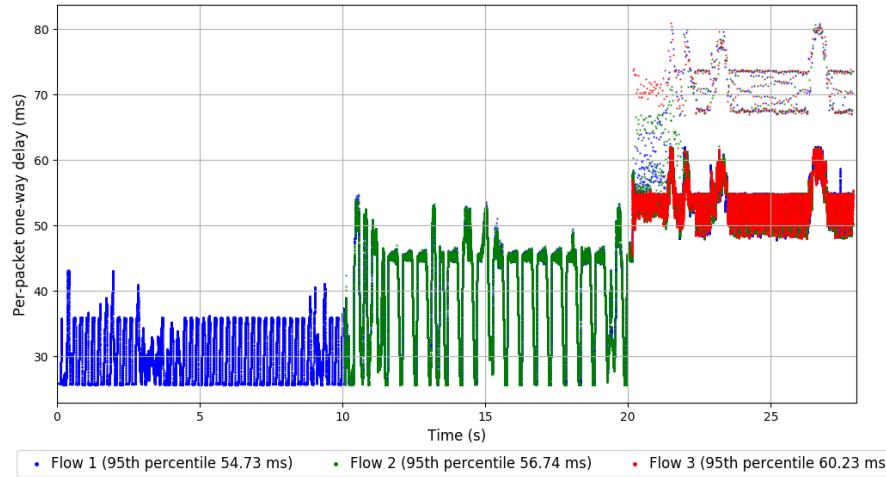
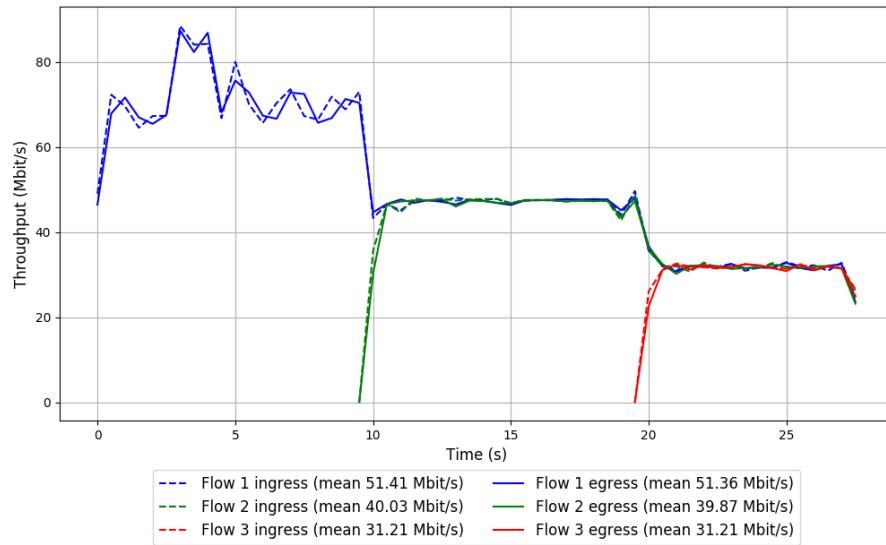


Run 2: Statistics of TaoVA-100x

```
Start at: 2017-12-05 19:23:43
End at: 2017-12-05 19:24:13
Local clock offset: -0.558 ms
Remote clock offset: -5.086 ms

# Below is generated by plot.py at 2017-12-06 02:04:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.81 Mbit/s
95th percentile per-packet one-way delay: 56.266 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 51.36 Mbit/s
95th percentile per-packet one-way delay: 54.731 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 39.87 Mbit/s
95th percentile per-packet one-way delay: 56.739 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 31.21 Mbit/s
95th percentile per-packet one-way delay: 60.229 ms
Loss rate: 1.15%
```

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

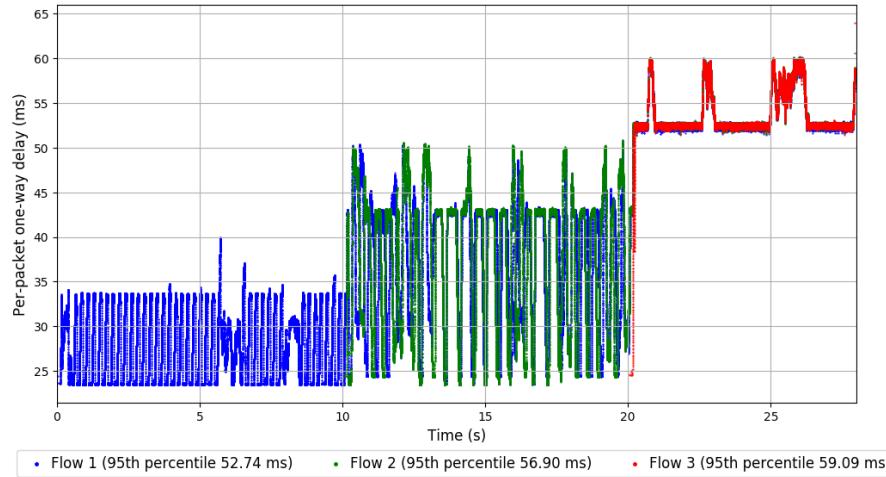
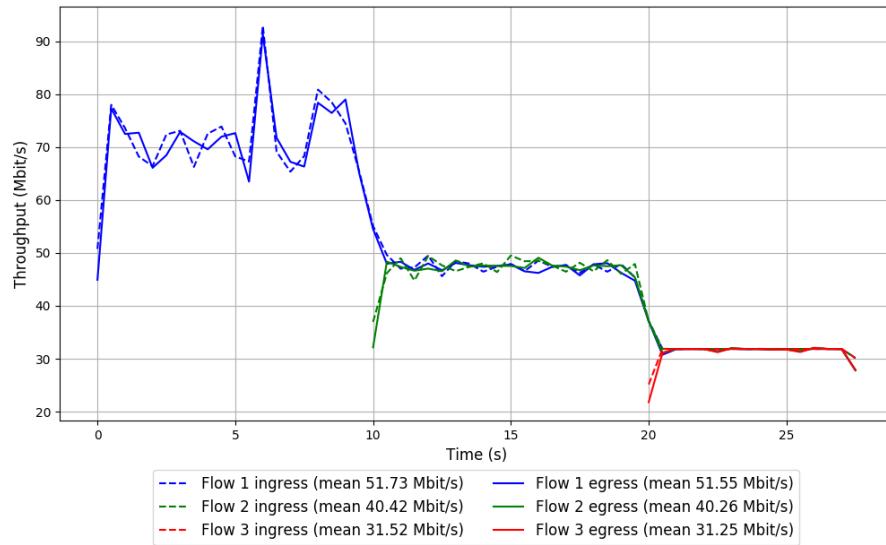


Run 3: Statistics of TaoVA-100x

```
Start at: 2017-12-05 19:43:31
End at: 2017-12-05 19:44:01
Local clock offset: -0.687 ms
Remote clock offset: -2.572 ms

# Below is generated by plot.py at 2017-12-06 02:04:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.21 Mbit/s
95th percentile per-packet one-way delay: 56.412 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 51.55 Mbit/s
95th percentile per-packet one-way delay: 52.744 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 40.26 Mbit/s
95th percentile per-packet one-way delay: 56.900 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 31.25 Mbit/s
95th percentile per-packet one-way delay: 59.093 ms
Loss rate: 1.48%
```

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

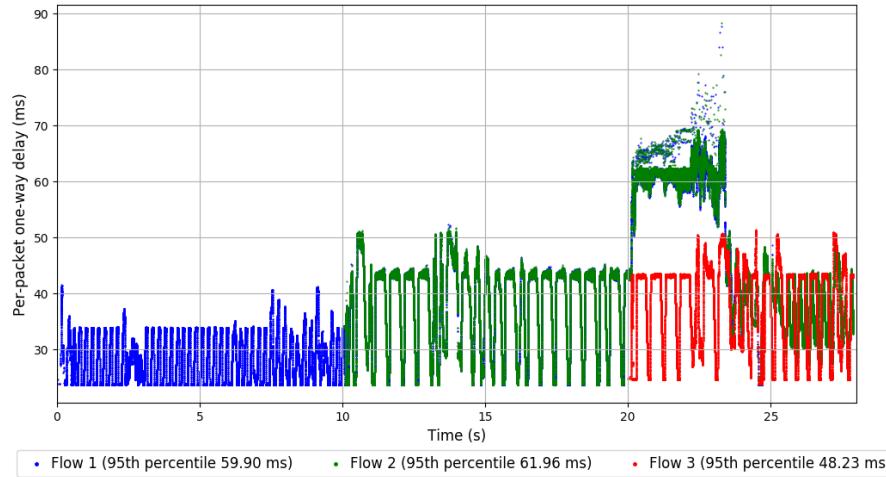
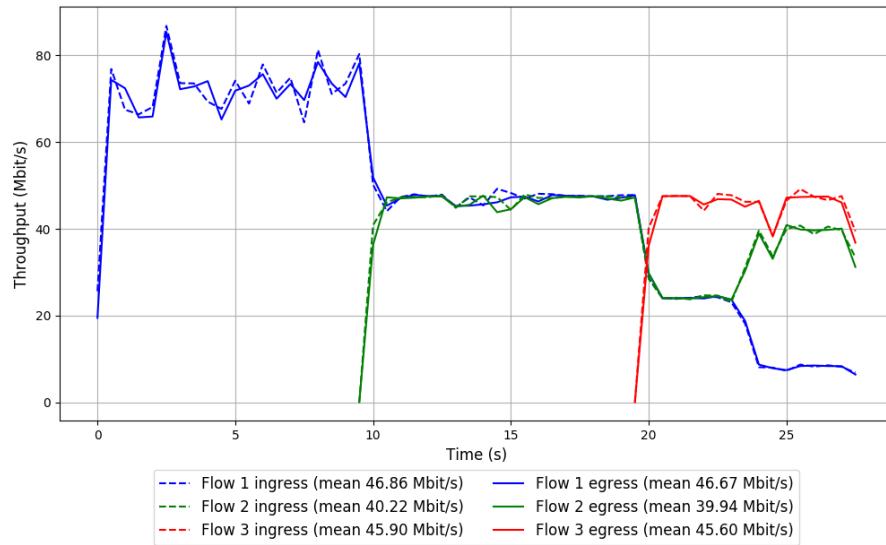


Run 4: Statistics of TaoVA-100x

```
Start at: 2017-12-05 20:03:28
End at: 2017-12-05 20:03:58
Local clock offset: -0.606 ms
Remote clock offset: -2.088 ms

# Below is generated by plot.py at 2017-12-06 02:04:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.24 Mbit/s
95th percentile per-packet one-way delay: 60.544 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 46.67 Mbit/s
95th percentile per-packet one-way delay: 59.904 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 39.94 Mbit/s
95th percentile per-packet one-way delay: 61.960 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 45.60 Mbit/s
95th percentile per-packet one-way delay: 48.230 ms
Loss rate: 1.42%
```

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

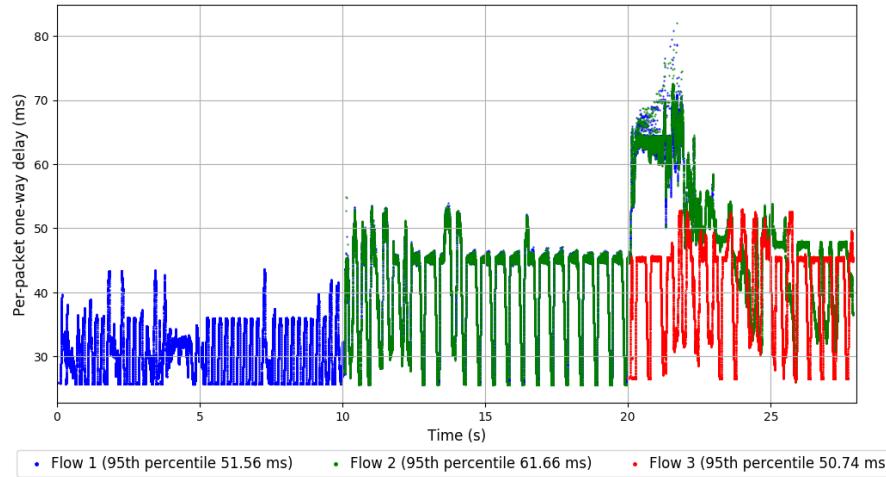
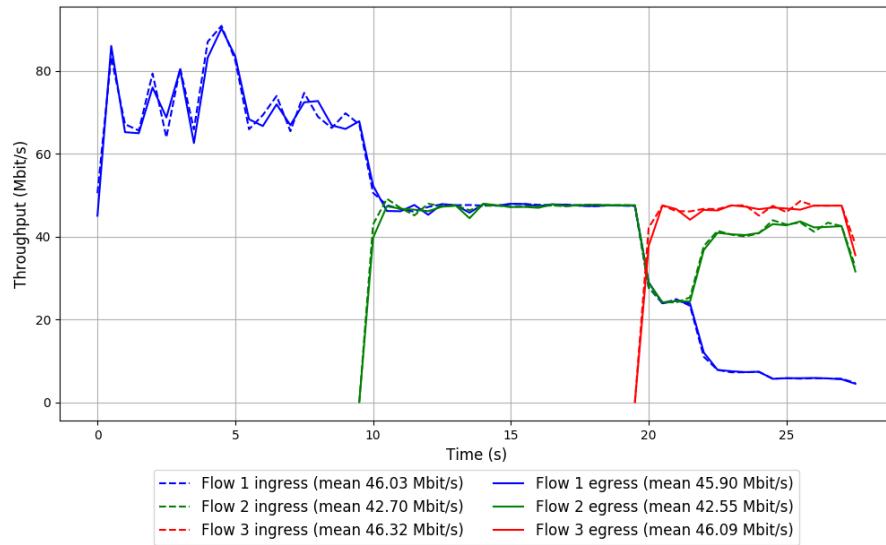


Run 5: Statistics of TaoVA-100x

```
Start at: 2017-12-05 20:23:08
End at: 2017-12-05 20:23:38
Local clock offset: -0.729 ms
Remote clock offset: -3.9 ms

# Below is generated by plot.py at 2017-12-06 02:05:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.34 Mbit/s
95th percentile per-packet one-way delay: 52.746 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 45.90 Mbit/s
95th percentile per-packet one-way delay: 51.557 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 42.55 Mbit/s
95th percentile per-packet one-way delay: 61.658 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 46.09 Mbit/s
95th percentile per-packet one-way delay: 50.743 ms
Loss rate: 1.28%
```

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

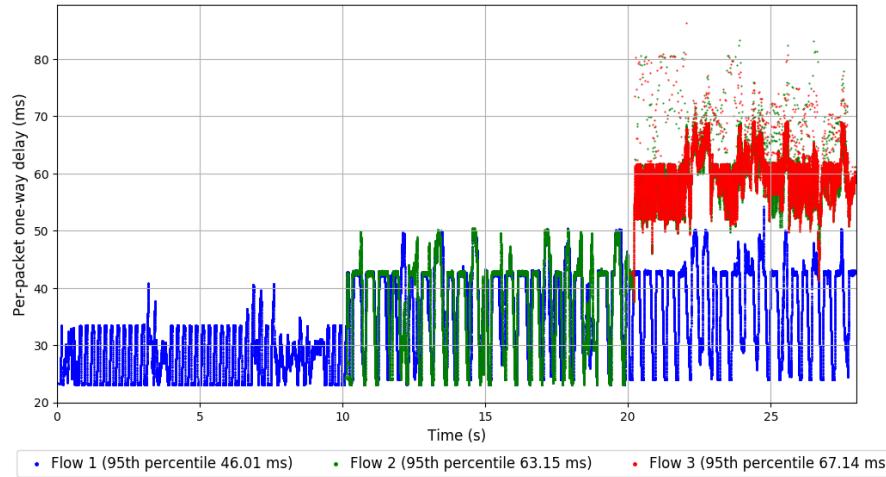
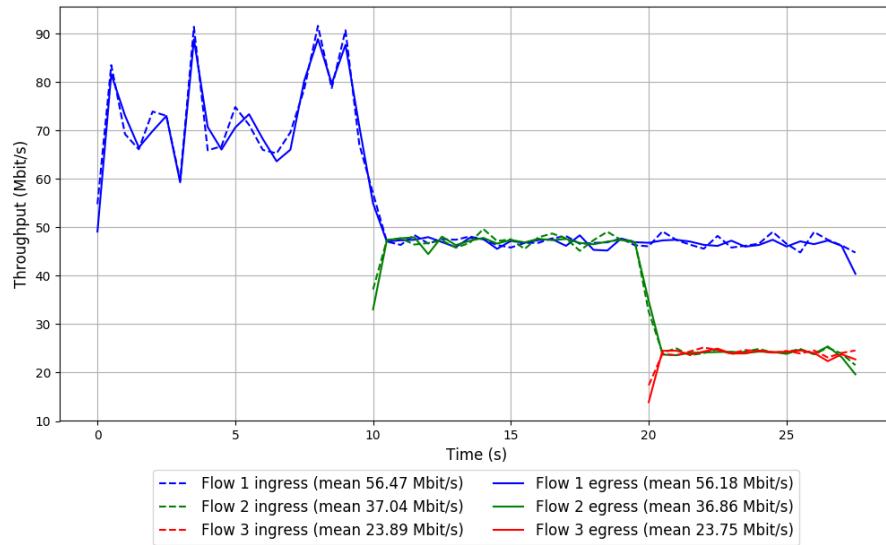


Run 6: Statistics of TaoVA-100x

```
Start at: 2017-12-05 20:42:48
End at: 2017-12-05 20:43:18
Local clock offset: -0.773 ms
Remote clock offset: -1.836 ms

# Below is generated by plot.py at 2017-12-06 02:05:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.53 Mbit/s
95th percentile per-packet one-way delay: 61.430 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 56.18 Mbit/s
95th percentile per-packet one-way delay: 46.014 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 36.86 Mbit/s
95th percentile per-packet one-way delay: 63.148 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 23.75 Mbit/s
95th percentile per-packet one-way delay: 67.141 ms
Loss rate: 1.72%
```

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

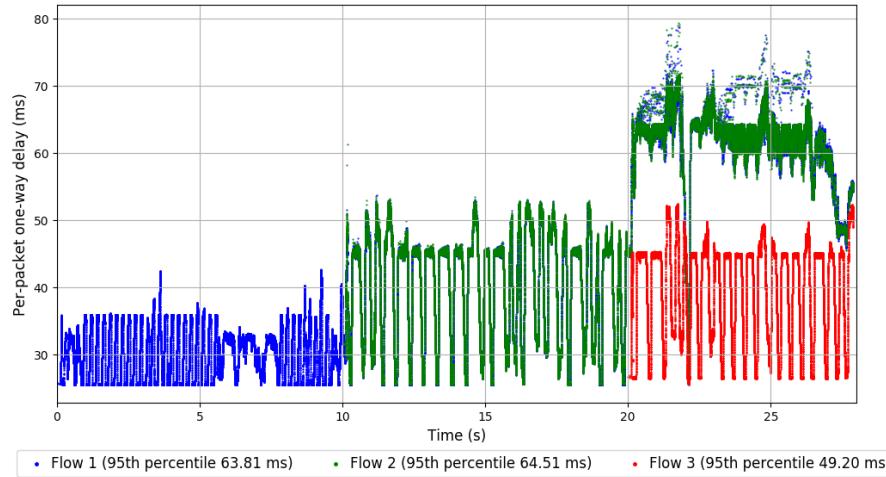
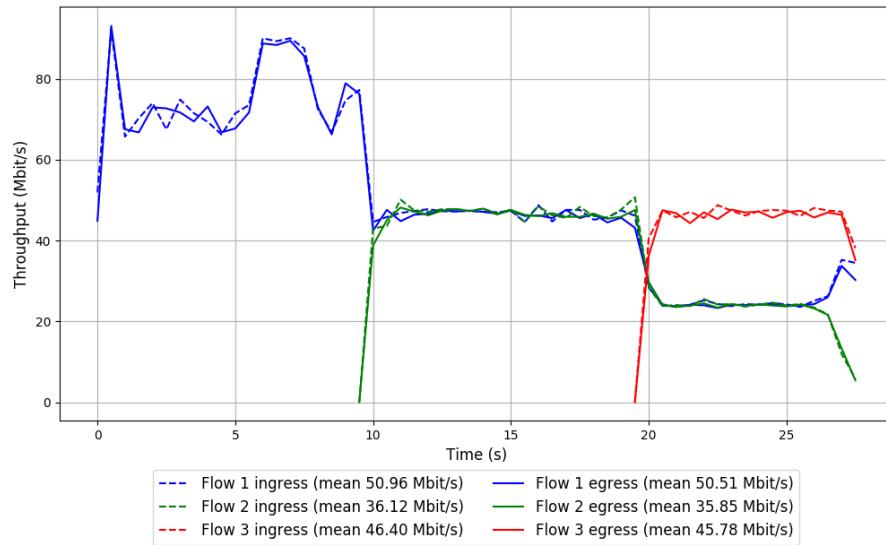


Run 7: Statistics of TaoVA-100x

```
Start at: 2017-12-05 21:02:44
End at: 2017-12-05 21:03:14
Local clock offset: -0.776 ms
Remote clock offset: -4.705 ms

# Below is generated by plot.py at 2017-12-06 02:05:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.51 Mbit/s
95th percentile per-packet one-way delay: 63.963 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 50.51 Mbit/s
95th percentile per-packet one-way delay: 63.809 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 35.85 Mbit/s
95th percentile per-packet one-way delay: 64.514 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 45.78 Mbit/s
95th percentile per-packet one-way delay: 49.202 ms
Loss rate: 2.01%
```

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

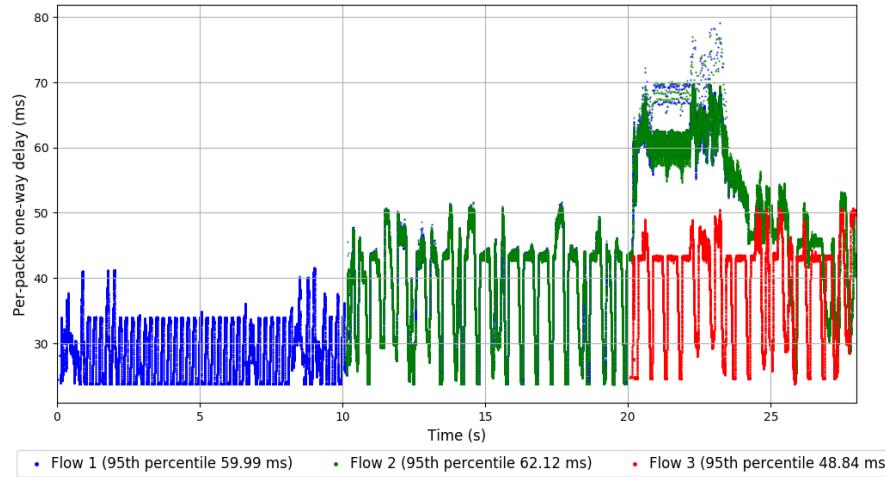
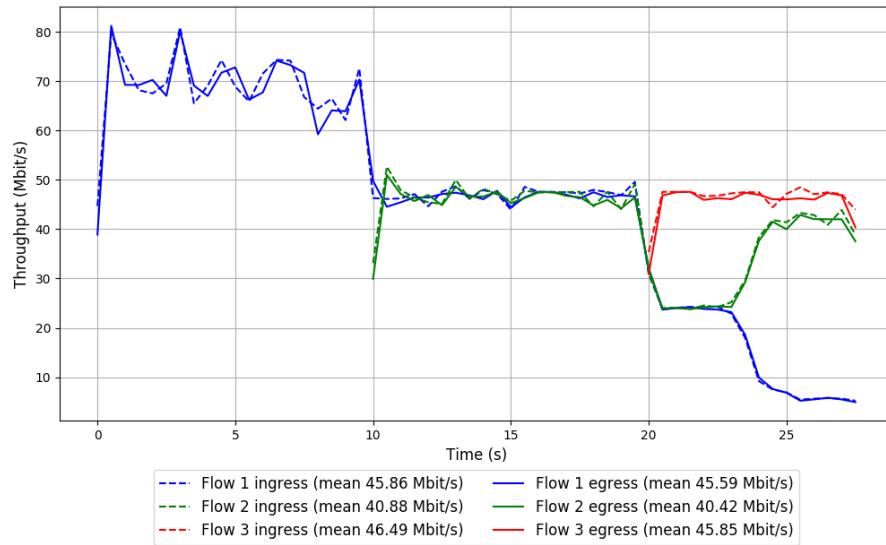


Run 8: Statistics of TaoVA-100x

```
Start at: 2017-12-05 21:22:38
End at: 2017-12-05 21:23:08
Local clock offset: -0.533 ms
Remote clock offset: -3.612 ms

# Below is generated by plot.py at 2017-12-06 02:05:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.48 Mbit/s
95th percentile per-packet one-way delay: 60.506 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 45.59 Mbit/s
95th percentile per-packet one-way delay: 59.993 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 40.42 Mbit/s
95th percentile per-packet one-way delay: 62.120 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 45.85 Mbit/s
95th percentile per-packet one-way delay: 48.843 ms
Loss rate: 2.03%
```

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

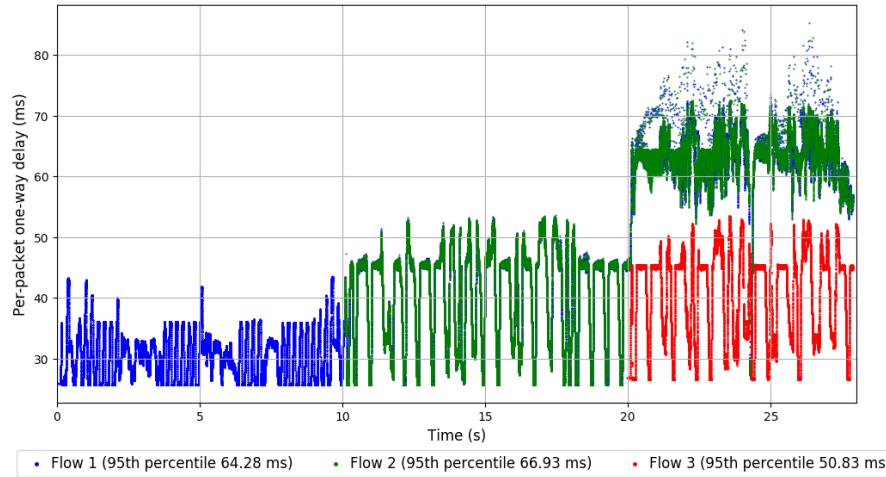
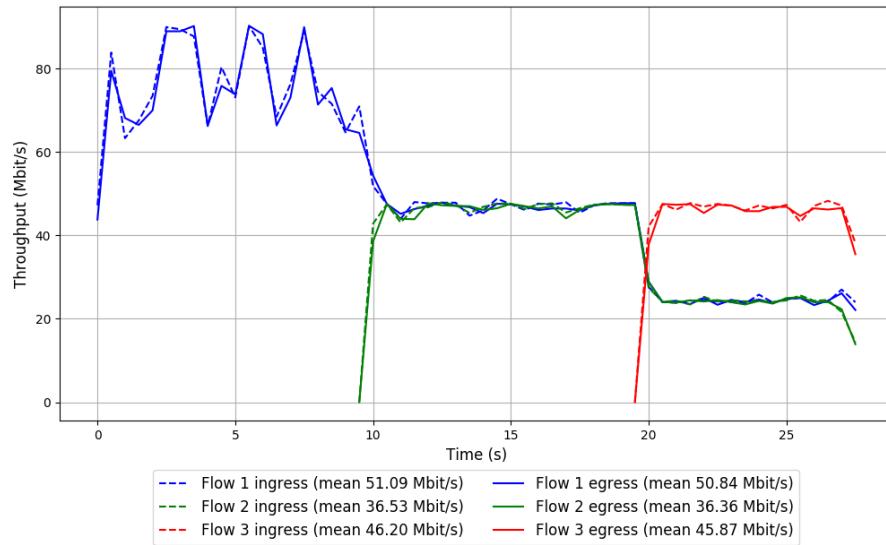


Run 9: Statistics of TaoVA-100x

```
Start at: 2017-12-05 21:42:20
End at: 2017-12-05 21:42:50
Local clock offset: -0.495 ms
Remote clock offset: -5.983 ms

# Below is generated by plot.py at 2017-12-06 02:06:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.23 Mbit/s
95th percentile per-packet one-way delay: 64.547 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 50.84 Mbit/s
95th percentile per-packet one-way delay: 64.276 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 36.36 Mbit/s
95th percentile per-packet one-way delay: 66.930 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 45.87 Mbit/s
95th percentile per-packet one-way delay: 50.833 ms
Loss rate: 1.51%
```

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

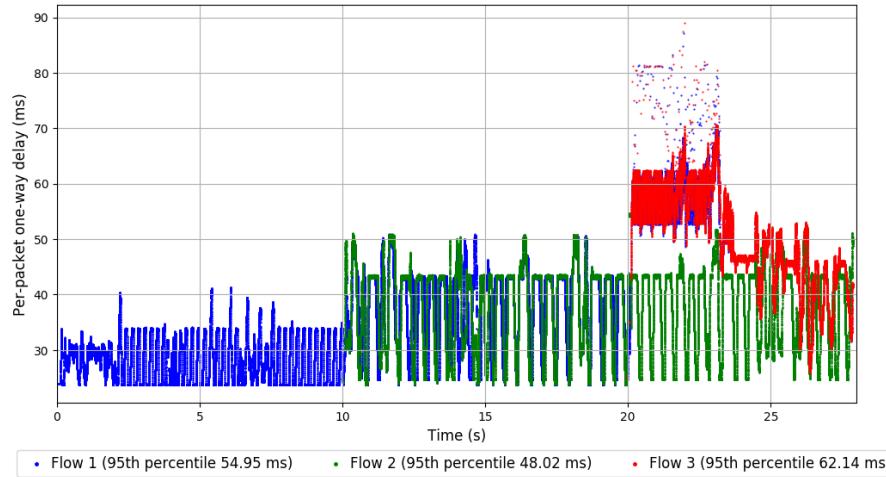
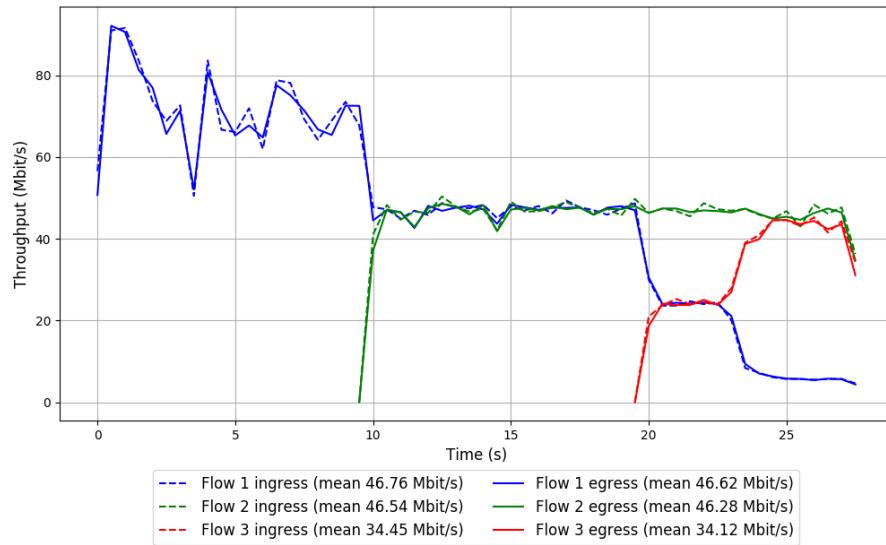


Run 10: Statistics of TaoVA-100x

```
Start at: 2017-12-05 22:02:16
End at: 2017-12-05 22:02:46
Local clock offset: -0.302 ms
Remote clock offset: -3.105 ms

# Below is generated by plot.py at 2017-12-06 02:06:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.05 Mbit/s
95th percentile per-packet one-way delay: 55.803 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 46.62 Mbit/s
95th percentile per-packet one-way delay: 54.949 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 46.28 Mbit/s
95th percentile per-packet one-way delay: 48.021 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 34.12 Mbit/s
95th percentile per-packet one-way delay: 62.136 ms
Loss rate: 1.64%
```

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

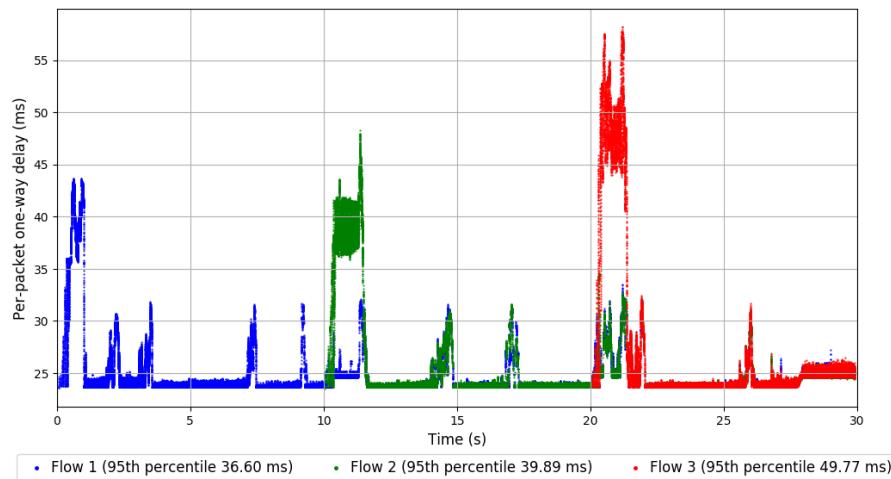
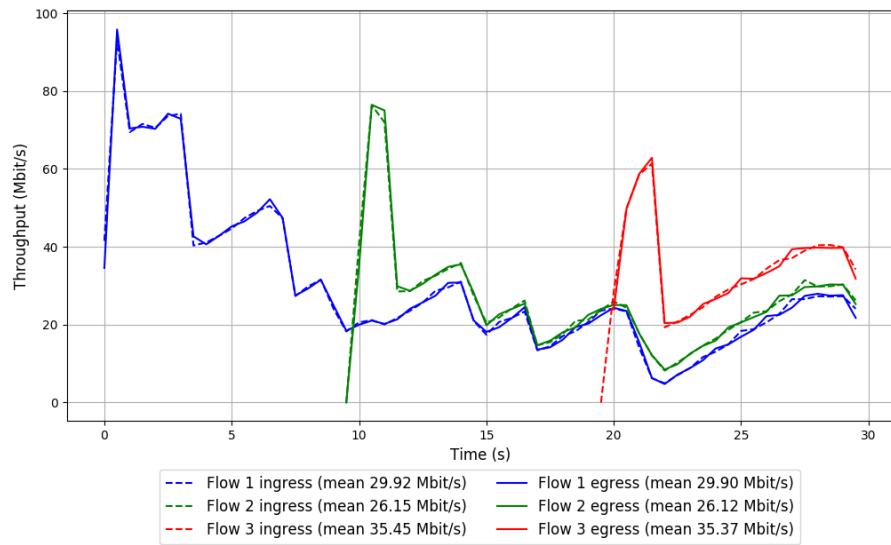


Run 1: Statistics of TCP Vegas

```
Start at: 2017-12-05 19:13:59
End at: 2017-12-05 19:14:29
Local clock offset: -0.672 ms
Remote clock offset: -3.245 ms

# Below is generated by plot.py at 2017-12-06 02:06:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.00 Mbit/s
95th percentile per-packet one-way delay: 40.770 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 29.90 Mbit/s
95th percentile per-packet one-way delay: 36.603 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 26.12 Mbit/s
95th percentile per-packet one-way delay: 39.894 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 35.37 Mbit/s
95th percentile per-packet one-way delay: 49.775 ms
Loss rate: 0.76%
```

Run 1: Report of TCP Vegas — Data Link

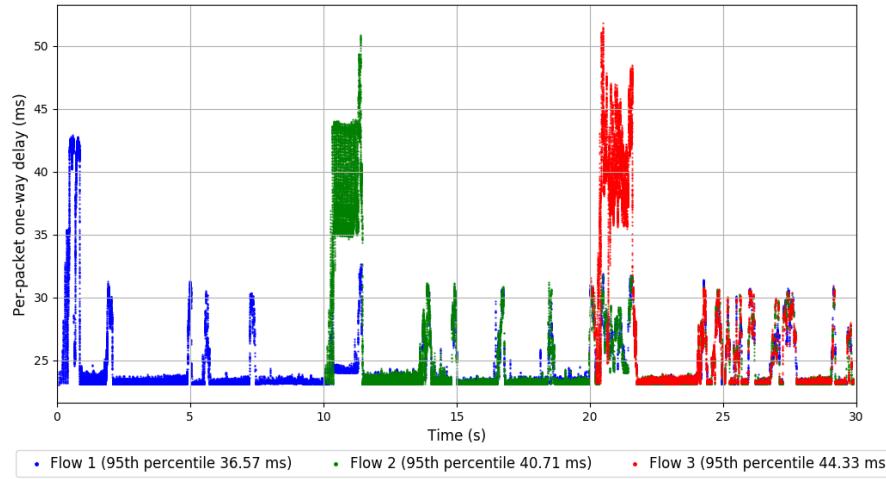
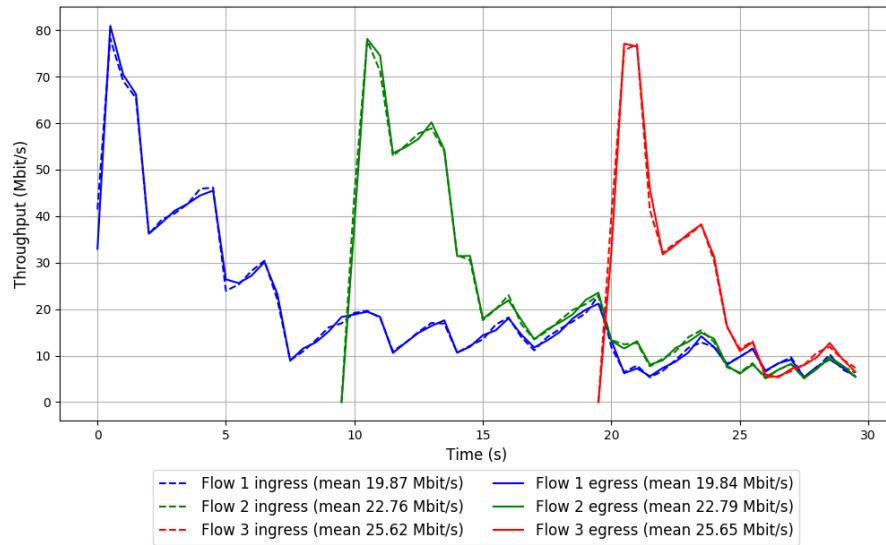


Run 2: Statistics of TCP Vegas

```
Start at: 2017-12-05 19:33:40
End at: 2017-12-05 19:34:10
Local clock offset: -0.684 ms
Remote clock offset: -2.477 ms

# Below is generated by plot.py at 2017-12-06 02:06:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 43.53 Mbit/s
95th percentile per-packet one-way delay: 41.822 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 19.84 Mbit/s
95th percentile per-packet one-way delay: 36.569 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 22.79 Mbit/s
95th percentile per-packet one-way delay: 40.707 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 25.65 Mbit/s
95th percentile per-packet one-way delay: 44.329 ms
Loss rate: 0.45%
```

Run 2: Report of TCP Vegas — Data Link

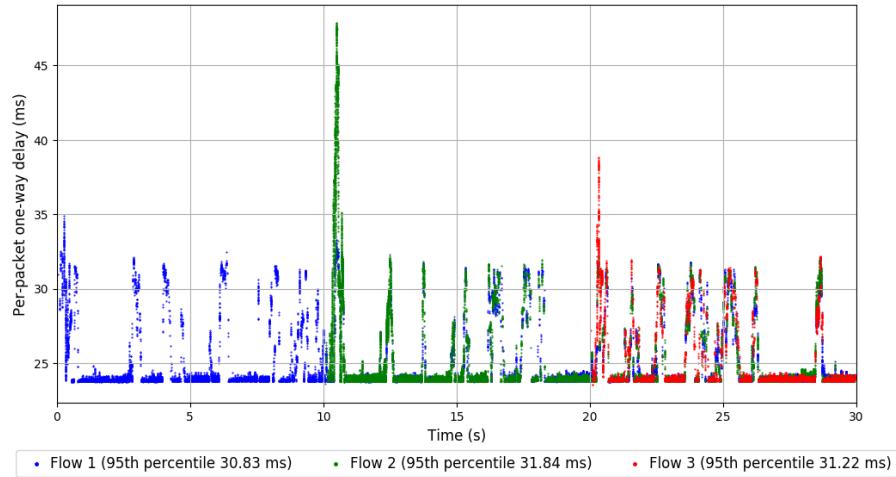
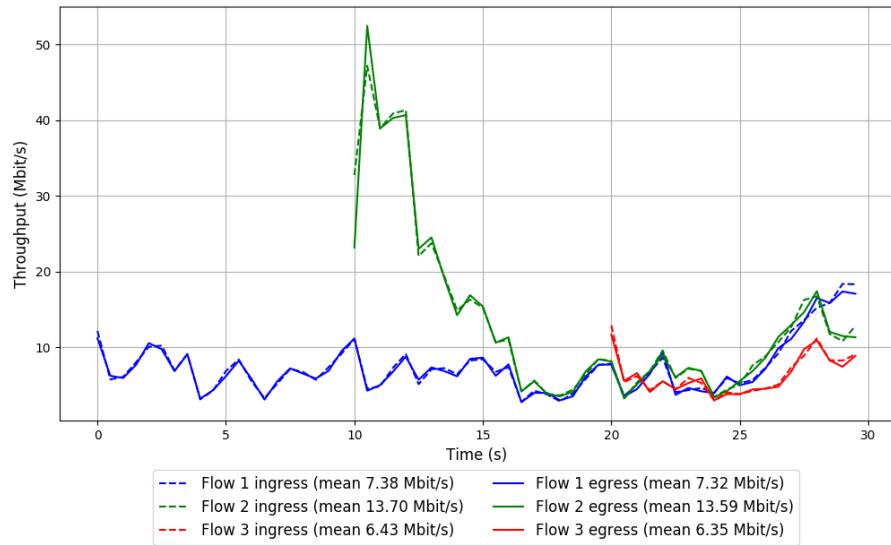


Run 3: Statistics of TCP Vegas

```
Start at: 2017-12-05 19:53:40
End at: 2017-12-05 19:54:10
Local clock offset: -0.593 ms
Remote clock offset: -2.376 ms

# Below is generated by plot.py at 2017-12-06 02:06:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.44 Mbit/s
95th percentile per-packet one-way delay: 31.207 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 7.32 Mbit/s
95th percentile per-packet one-way delay: 30.826 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 13.59 Mbit/s
95th percentile per-packet one-way delay: 31.837 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 6.35 Mbit/s
95th percentile per-packet one-way delay: 31.218 ms
Loss rate: 1.84%
```

Run 3: Report of TCP Vegas — Data Link

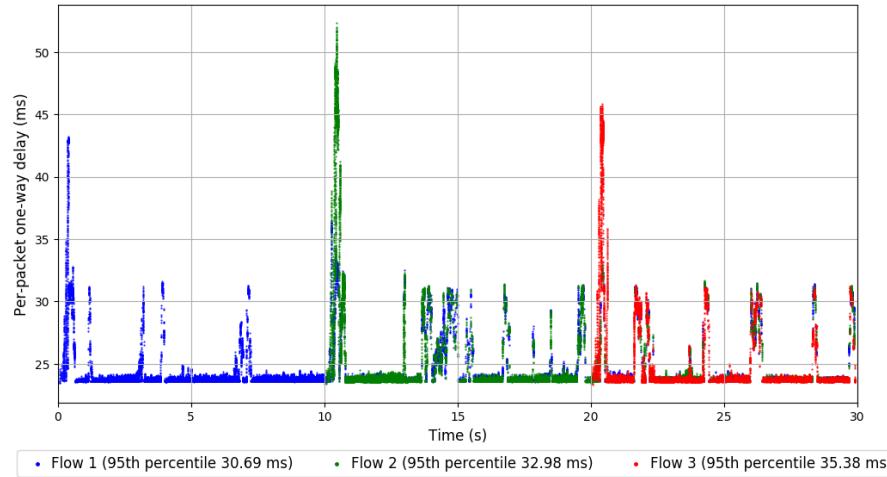
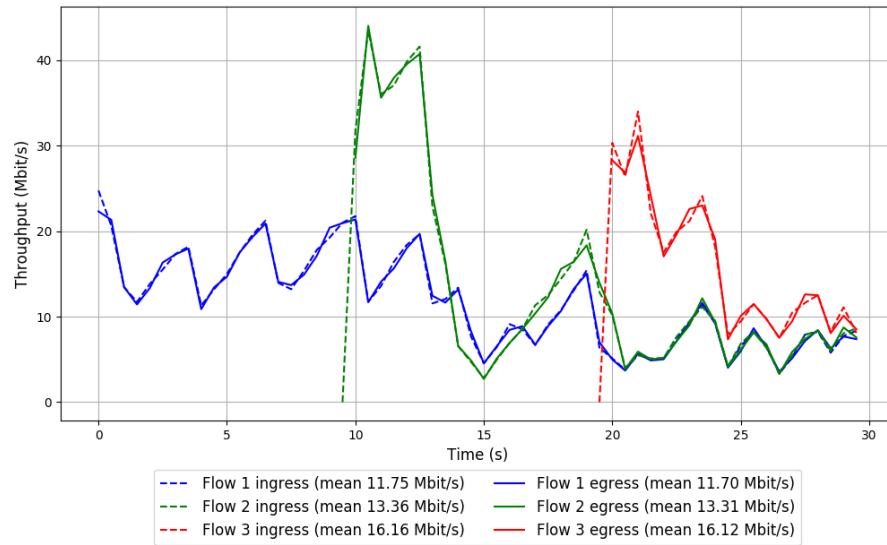


Run 4: Statistics of TCP Vegas

```
Start at: 2017-12-05 20:13:20
End at: 2017-12-05 20:13:50
Local clock offset: -0.718 ms
Remote clock offset: -1.748 ms

# Below is generated by plot.py at 2017-12-06 02:06:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 25.89 Mbit/s
95th percentile per-packet one-way delay: 31.141 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 11.70 Mbit/s
95th percentile per-packet one-way delay: 30.692 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 13.31 Mbit/s
95th percentile per-packet one-way delay: 32.983 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 16.12 Mbit/s
95th percentile per-packet one-way delay: 35.378 ms
Loss rate: 0.81%
```

Run 4: Report of TCP Vegas — Data Link

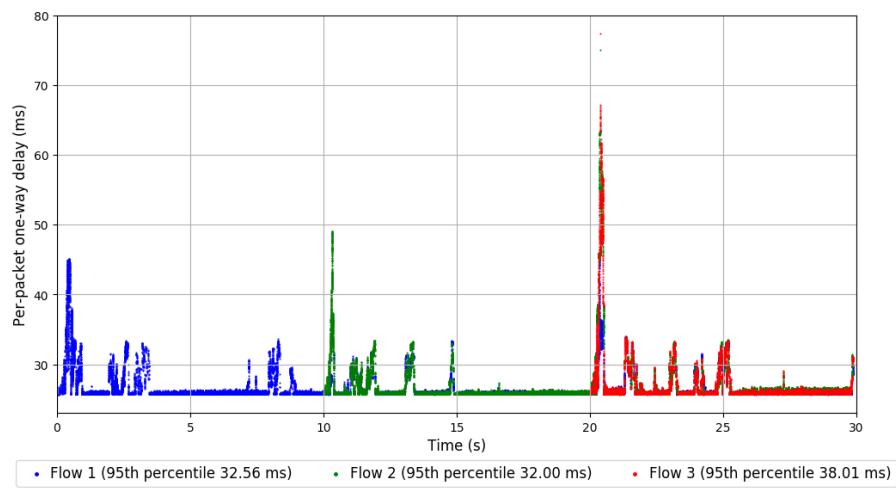
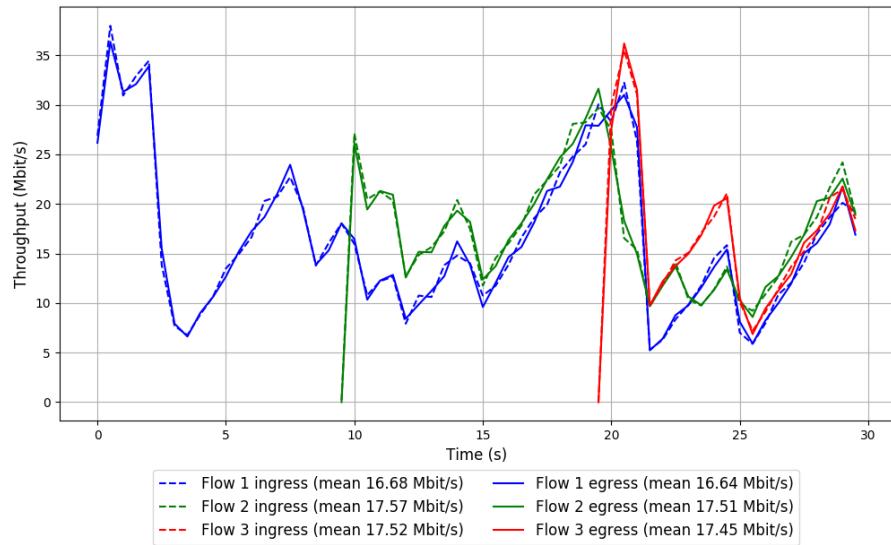


Run 5: Statistics of TCP Vegas

```
Start at: 2017-12-05 20:33:09
End at: 2017-12-05 20:38:39
Local clock offset: -0.656 ms
Remote clock offset: -4.086 ms

# Below is generated by plot.py at 2017-12-06 02:06:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 34.08 Mbit/s
95th percentile per-packet one-way delay: 32.731 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 16.64 Mbit/s
95th percentile per-packet one-way delay: 32.561 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 17.51 Mbit/s
95th percentile per-packet one-way delay: 32.004 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 17.45 Mbit/s
95th percentile per-packet one-way delay: 38.011 ms
Loss rate: 0.92%
```

Run 5: Report of TCP Vegas — Data Link

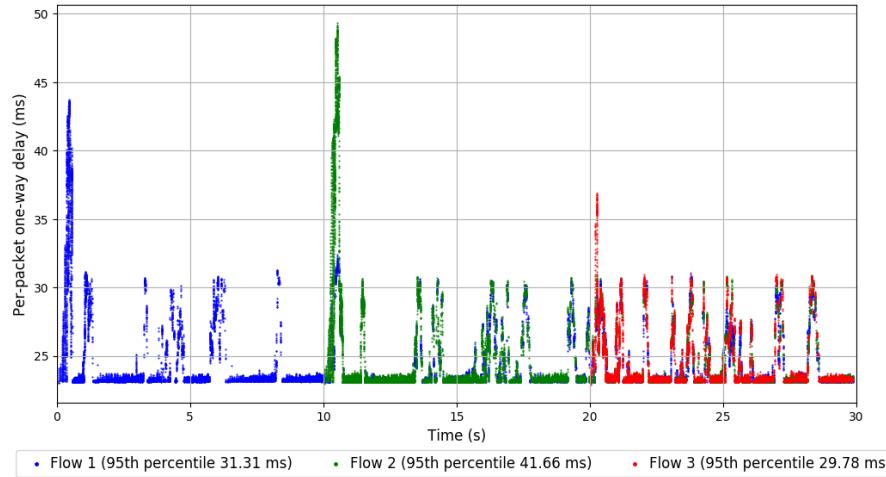
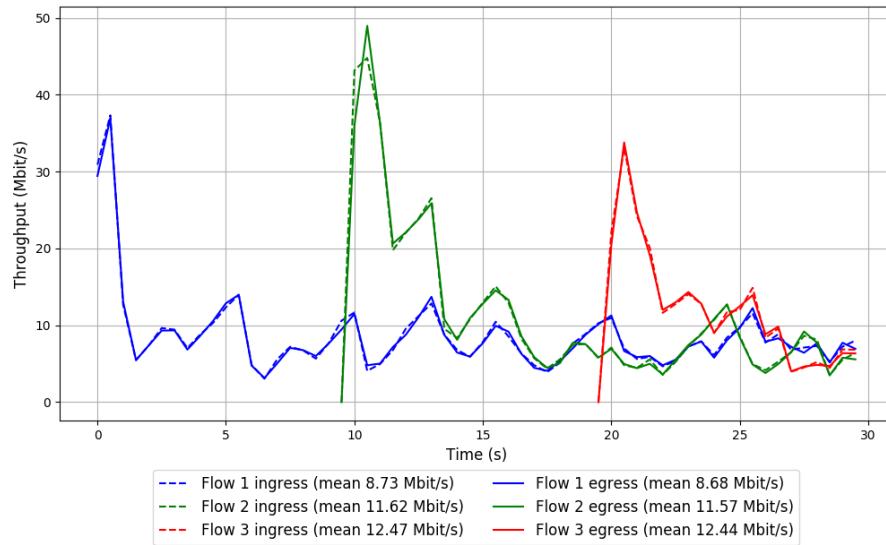


Run 6: Statistics of TCP Vegas

```
Start at: 2017-12-05 20:52:52
End at: 2017-12-05 20:53:22
Local clock offset: -0.774 ms
Remote clock offset: -2.018 ms

# Below is generated by plot.py at 2017-12-06 02:06:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.50 Mbit/s
95th percentile per-packet one-way delay: 32.740 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 8.68 Mbit/s
95th percentile per-packet one-way delay: 31.313 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 11.57 Mbit/s
95th percentile per-packet one-way delay: 41.655 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 12.44 Mbit/s
95th percentile per-packet one-way delay: 29.778 ms
Loss rate: 0.73%
```

Run 6: Report of TCP Vegas — Data Link

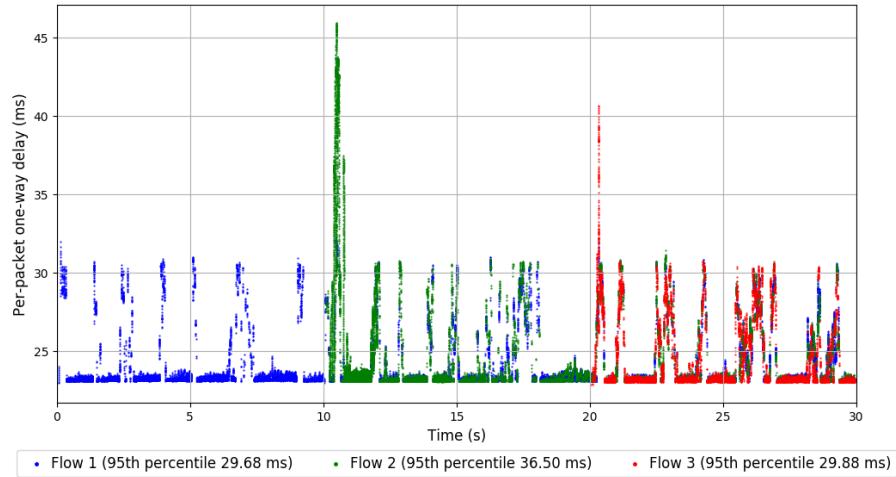
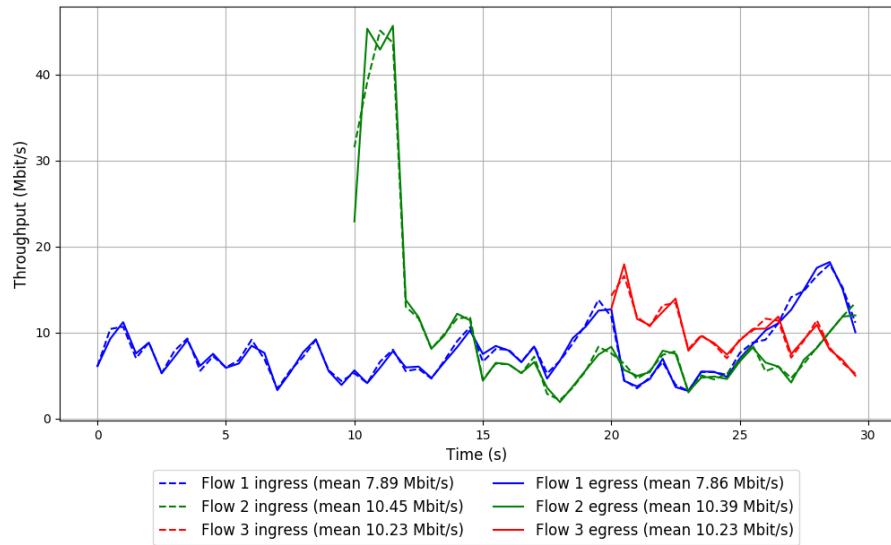


Run 7: Statistics of TCP Vegas

```
Start at: 2017-12-05 21:12:51
End at: 2017-12-05 21:13:21
Local clock offset: -0.651 ms
Remote clock offset: -2.482 ms

# Below is generated by plot.py at 2017-12-06 02:06:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.15 Mbit/s
95th percentile per-packet one-way delay: 30.302 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 7.86 Mbit/s
95th percentile per-packet one-way delay: 29.678 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 10.39 Mbit/s
95th percentile per-packet one-way delay: 36.497 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 10.23 Mbit/s
95th percentile per-packet one-way delay: 29.879 ms
Loss rate: 0.50%
```

Run 7: Report of TCP Vegas — Data Link

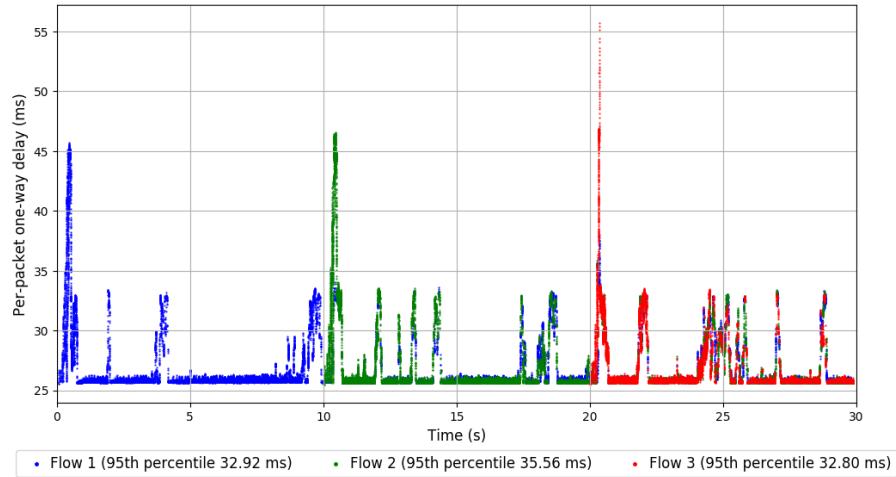
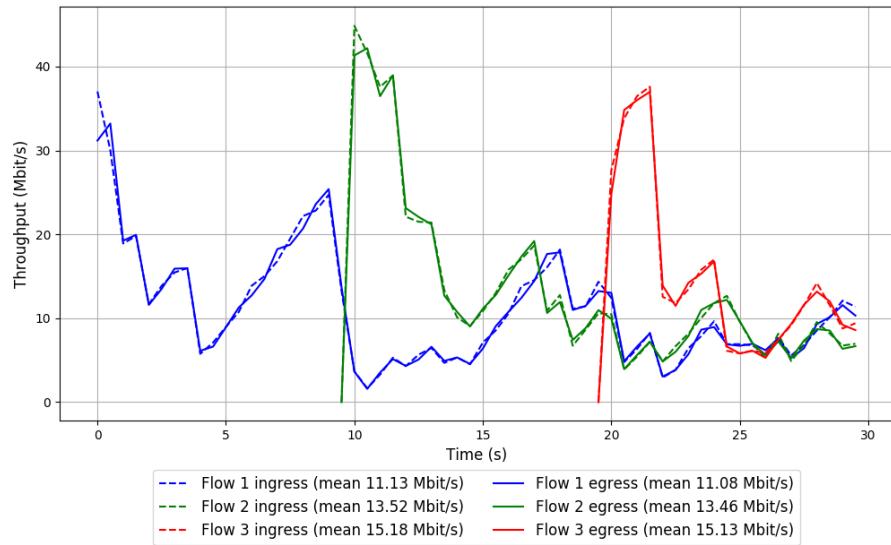


Run 8: Statistics of TCP Vegas

```
Start at: 2017-12-05 21:32:38
End at: 2017-12-05 21:33:08
Local clock offset: -0.471 ms
Remote clock offset: -5.833 ms

# Below is generated by plot.py at 2017-12-06 02:06:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 25.06 Mbit/s
95th percentile per-packet one-way delay: 33.147 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 11.08 Mbit/s
95th percentile per-packet one-way delay: 32.918 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 13.46 Mbit/s
95th percentile per-packet one-way delay: 35.558 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 15.13 Mbit/s
95th percentile per-packet one-way delay: 32.803 ms
Loss rate: 0.90%
```

Run 8: Report of TCP Vegas — Data Link

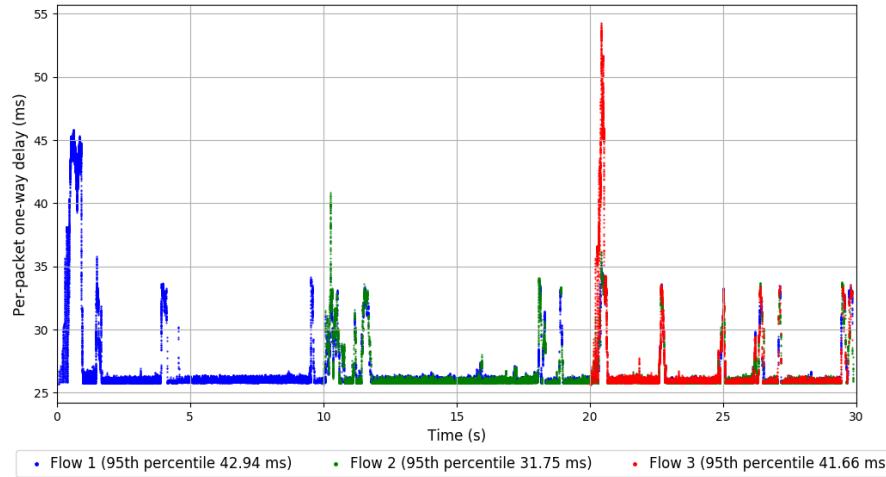
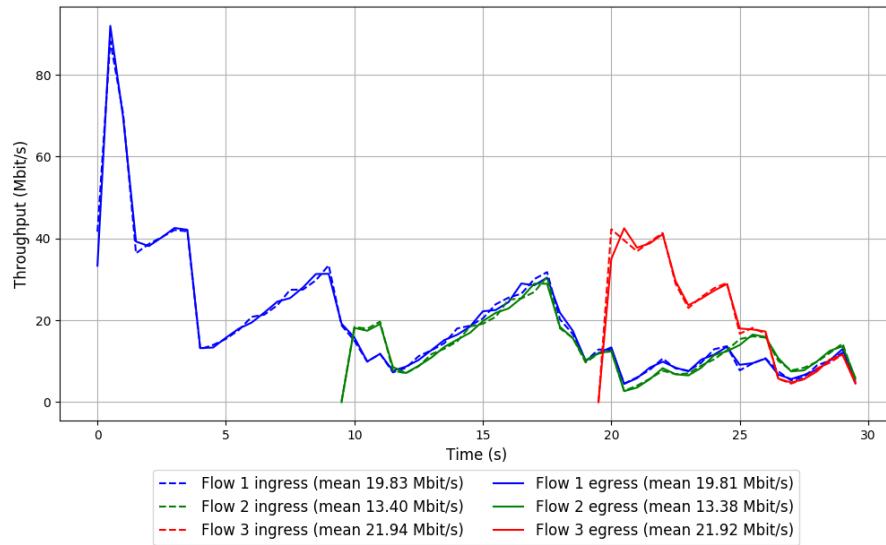


Run 9: Statistics of TCP Vegas

```
Start at: 2017-12-05 21:52:27
End at: 2017-12-05 21:52:57
Local clock offset: -0.42 ms
Remote clock offset: -5.678 ms

# Below is generated by plot.py at 2017-12-06 02:06:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.98 Mbit/s
95th percentile per-packet one-way delay: 40.236 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 19.81 Mbit/s
95th percentile per-packet one-way delay: 42.941 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 13.38 Mbit/s
95th percentile per-packet one-way delay: 31.755 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 21.92 Mbit/s
95th percentile per-packet one-way delay: 41.664 ms
Loss rate: 0.62%
```

Run 9: Report of TCP Vegas — Data Link

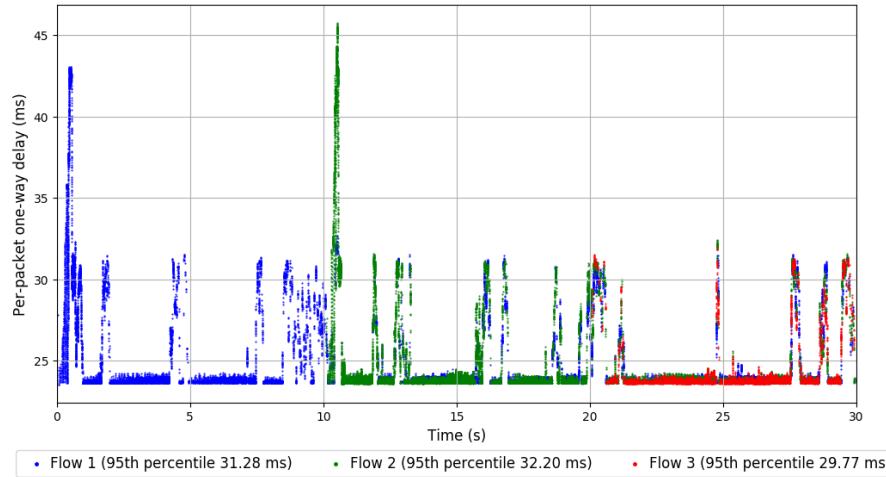
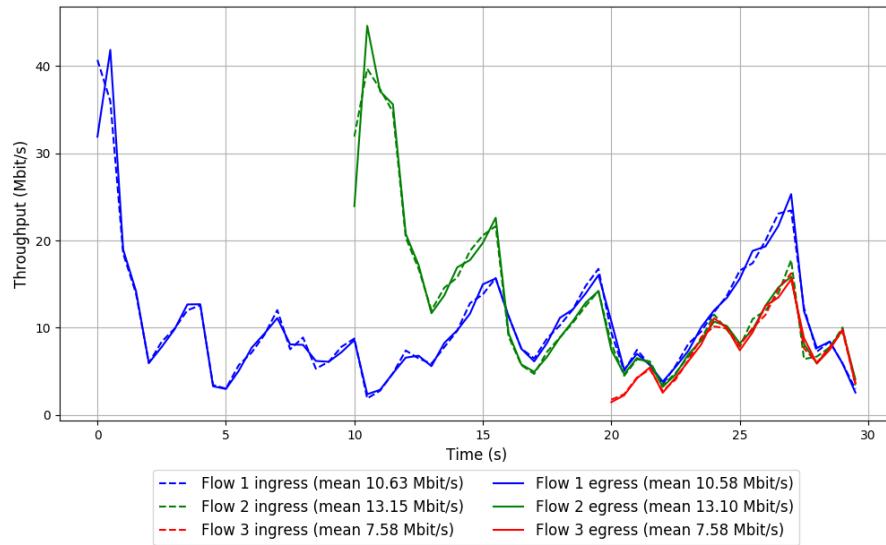


Run 10: Statistics of TCP Vegas

```
Start at: 2017-12-05 22:12:49
End at: 2017-12-05 22:13:19
Local clock offset: -0.299 ms
Remote clock offset: -2.33 ms

# Below is generated by plot.py at 2017-12-06 02:06:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.79 Mbit/s
95th percentile per-packet one-way delay: 31.147 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 10.58 Mbit/s
95th percentile per-packet one-way delay: 31.278 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 13.10 Mbit/s
95th percentile per-packet one-way delay: 32.200 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 7.58 Mbit/s
95th percentile per-packet one-way delay: 29.769 ms
Loss rate: 0.56%
```

Run 10: Report of TCP Vegas — Data Link

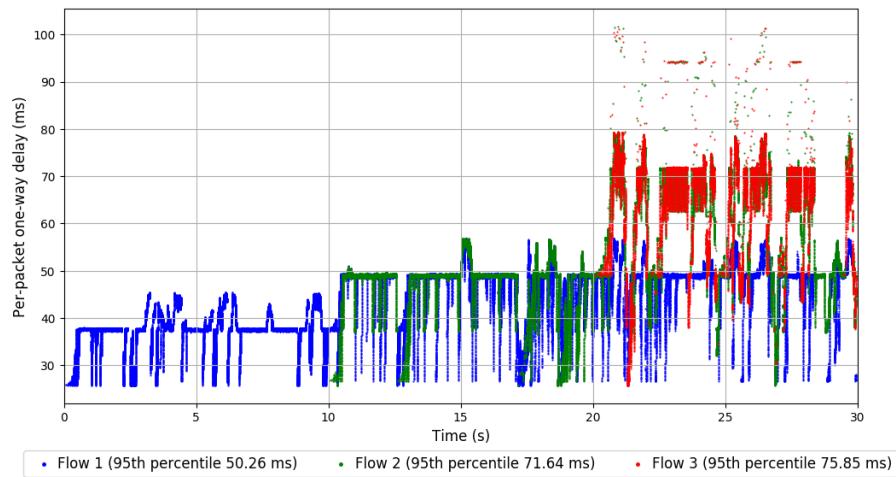
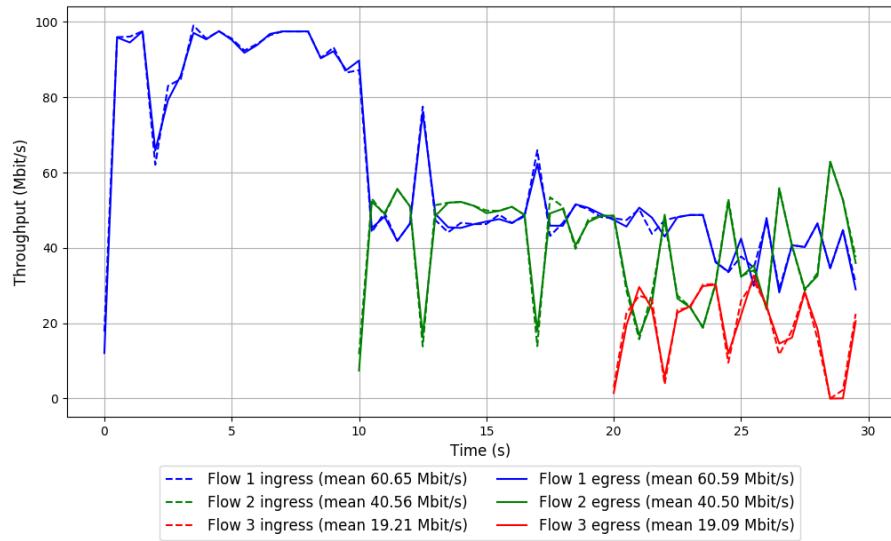


Run 1: Statistics of Verus

```
Start at: 2017-12-05 19:06:50
End at: 2017-12-05 19:07:20
Local clock offset: -0.59 ms
Remote clock offset: -5.312 ms

# Below is generated by plot.py at 2017-12-06 02:07:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.80 Mbit/s
95th percentile per-packet one-way delay: 69.829 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 60.59 Mbit/s
95th percentile per-packet one-way delay: 50.256 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 40.50 Mbit/s
95th percentile per-packet one-way delay: 71.642 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 19.09 Mbit/s
95th percentile per-packet one-way delay: 75.850 ms
Loss rate: 1.33%
```

Run 1: Report of Verus — Data Link

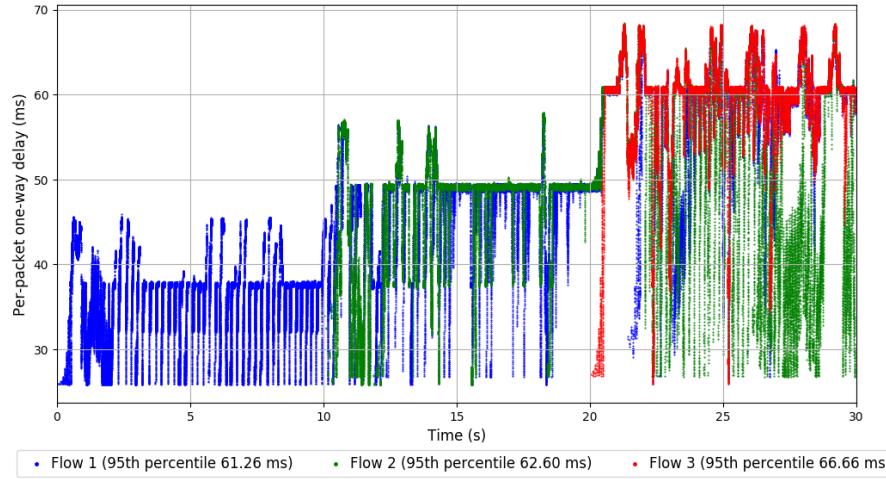
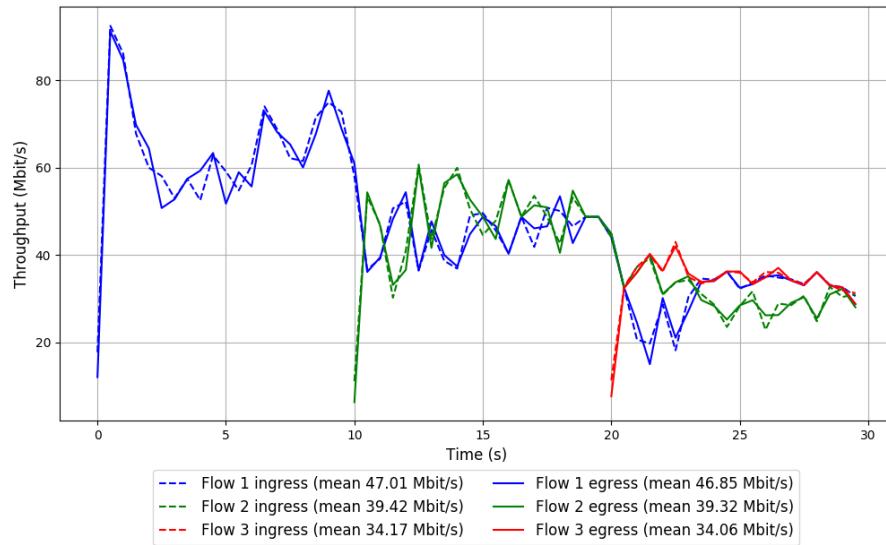


Run 2: Statistics of Verus

```
Start at: 2017-12-05 19:26:30
End at: 2017-12-05 19:27:00
Local clock offset: -0.549 ms
Remote clock offset: -5.209 ms

# Below is generated by plot.py at 2017-12-06 02:07:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.27 Mbit/s
95th percentile per-packet one-way delay: 63.658 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 46.85 Mbit/s
95th percentile per-packet one-way delay: 61.264 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 39.32 Mbit/s
95th percentile per-packet one-way delay: 62.601 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 34.06 Mbit/s
95th percentile per-packet one-way delay: 66.658 ms
Loss rate: 1.06%
```

Run 2: Report of Verus — Data Link

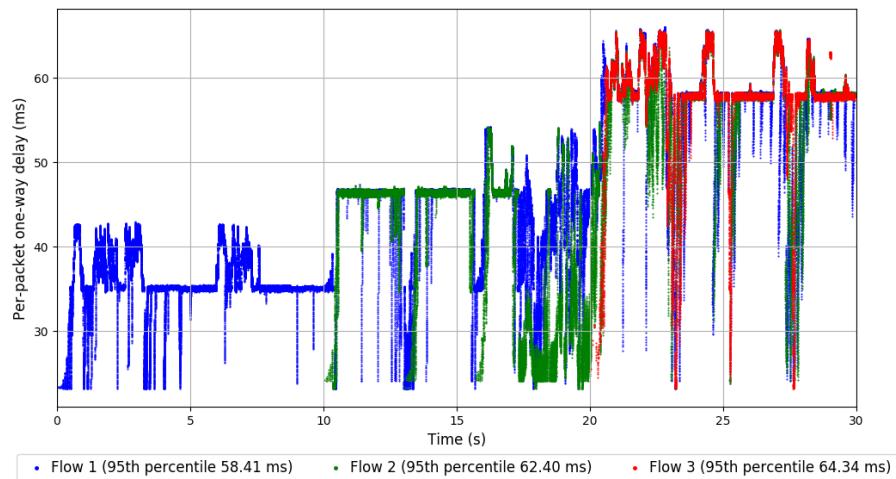
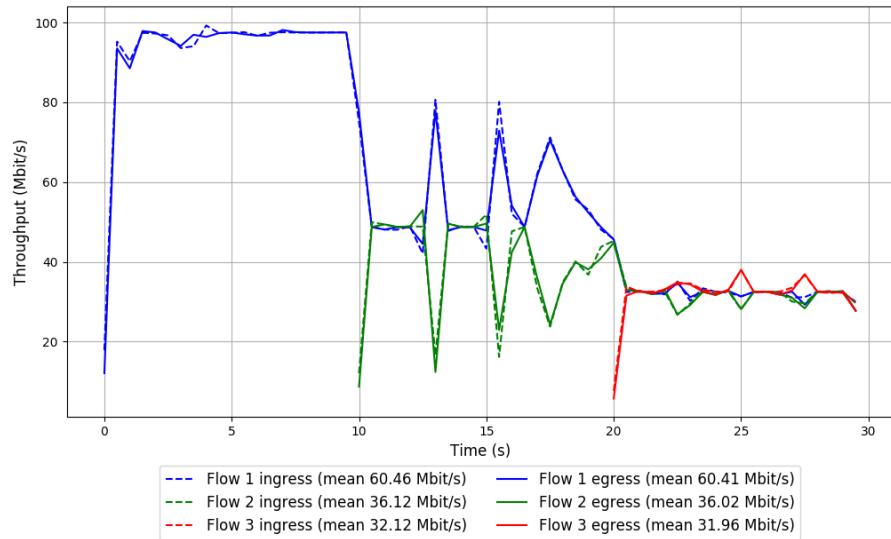


Run 3: Statistics of Verus

```
Start at: 2017-12-05 19:46:18
End at: 2017-12-05 19:46:48
Local clock offset: -0.606 ms
Remote clock offset: -2.112 ms

# Below is generated by plot.py at 2017-12-06 02:07:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.92 Mbit/s
95th percentile per-packet one-way delay: 61.511 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 60.41 Mbit/s
95th percentile per-packet one-way delay: 58.407 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 36.02 Mbit/s
95th percentile per-packet one-way delay: 62.400 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 31.96 Mbit/s
95th percentile per-packet one-way delay: 64.343 ms
Loss rate: 1.21%
```

Run 3: Report of Verus — Data Link

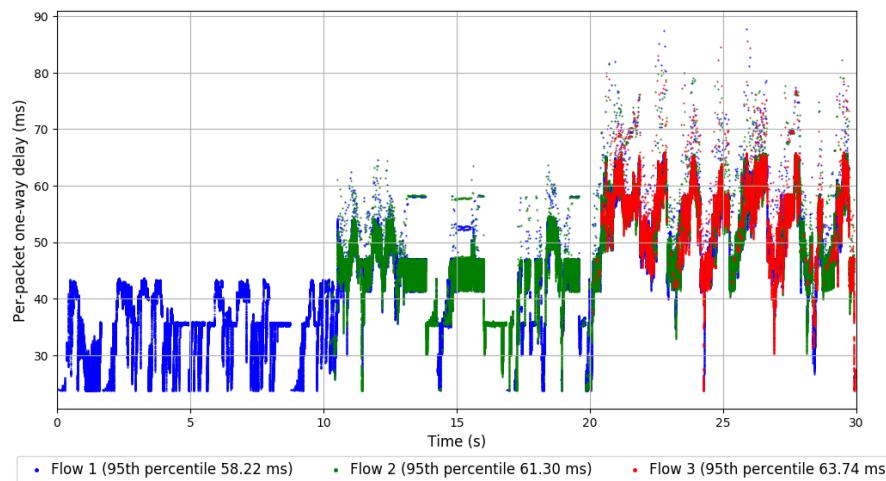
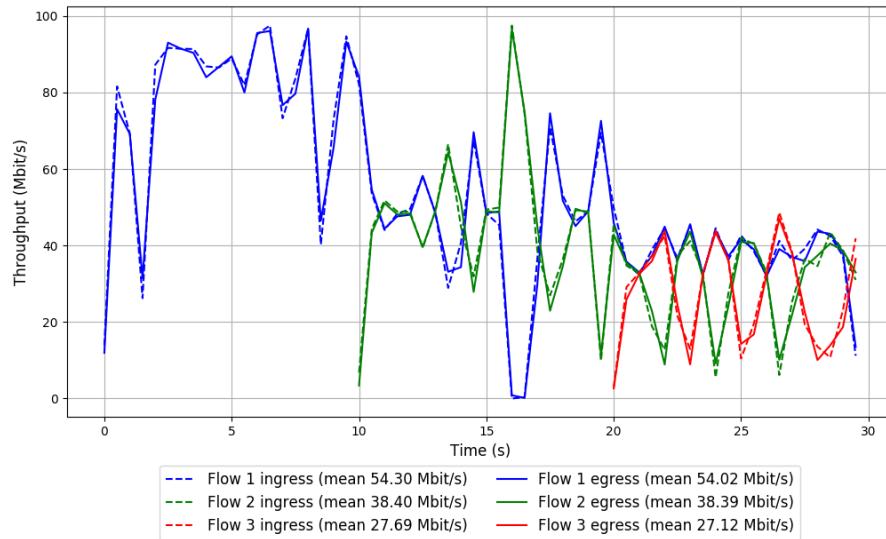


Run 4: Statistics of Verus

```
Start at: 2017-12-05 20:06:13
End at: 2017-12-05 20:06:43
Local clock offset: -0.612 ms
Remote clock offset: -2.034 ms

# Below is generated by plot.py at 2017-12-06 02:07:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.46 Mbit/s
95th percentile per-packet one-way delay: 60.783 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 54.02 Mbit/s
95th percentile per-packet one-way delay: 58.216 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 38.39 Mbit/s
95th percentile per-packet one-way delay: 61.304 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 27.12 Mbit/s
95th percentile per-packet one-way delay: 63.740 ms
Loss rate: 2.59%
```

Run 4: Report of Verus — Data Link

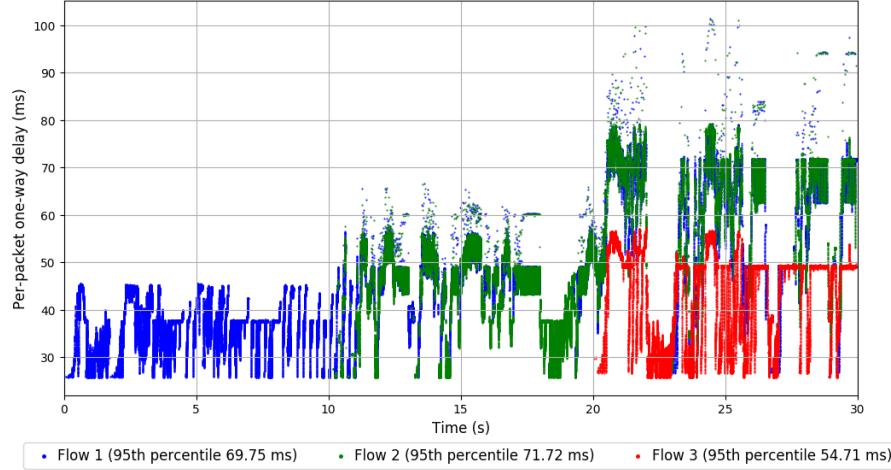
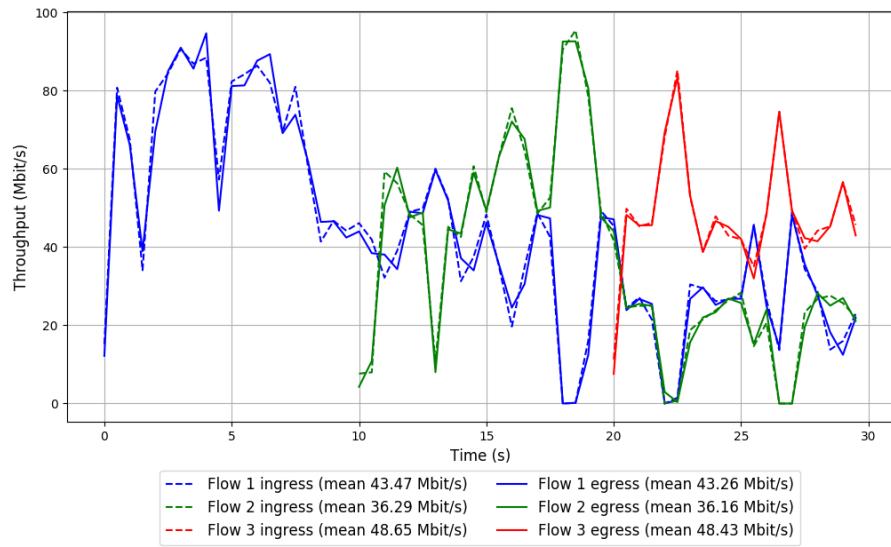


Run 5: Statistics of Verus

```
Start at: 2017-12-05 20:25:57
End at: 2017-12-05 20:26:27
Local clock offset: -0.641 ms
Remote clock offset: -4.034 ms

# Below is generated by plot.py at 2017-12-06 02:07:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.32 Mbit/s
95th percentile per-packet one-way delay: 70.006 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 43.26 Mbit/s
95th percentile per-packet one-way delay: 69.755 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 36.16 Mbit/s
95th percentile per-packet one-way delay: 71.725 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 48.43 Mbit/s
95th percentile per-packet one-way delay: 54.713 ms
Loss rate: 1.13%
```

Run 5: Report of Verus — Data Link

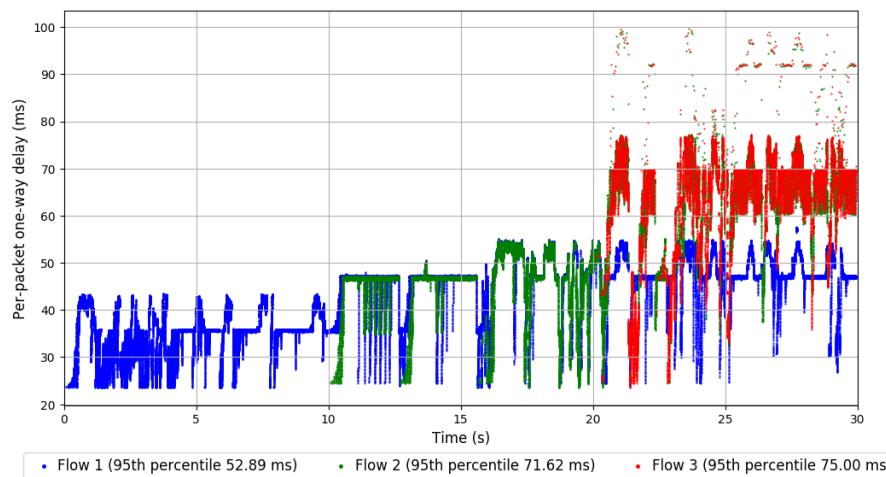
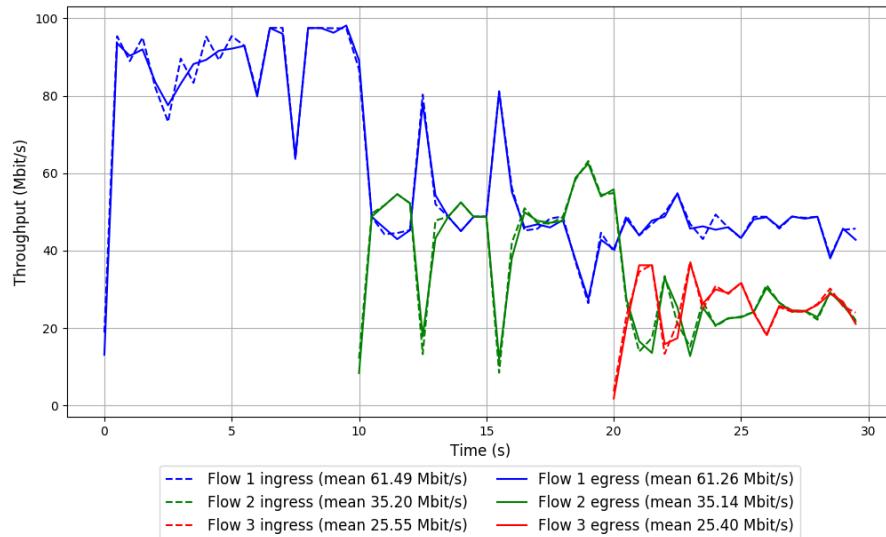


Run 6: Statistics of Verus

```
Start at: 2017-12-05 20:45:33
End at: 2017-12-05 20:46:03
Local clock offset: -0.672 ms
Remote clock offset: -2.289 ms

# Below is generated by plot.py at 2017-12-06 02:07:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.98 Mbit/s
95th percentile per-packet one-way delay: 69.330 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 61.26 Mbit/s
95th percentile per-packet one-way delay: 52.889 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 35.14 Mbit/s
95th percentile per-packet one-way delay: 71.617 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 25.40 Mbit/s
95th percentile per-packet one-way delay: 75.004 ms
Loss rate: 1.37%
```

Run 6: Report of Verus — Data Link

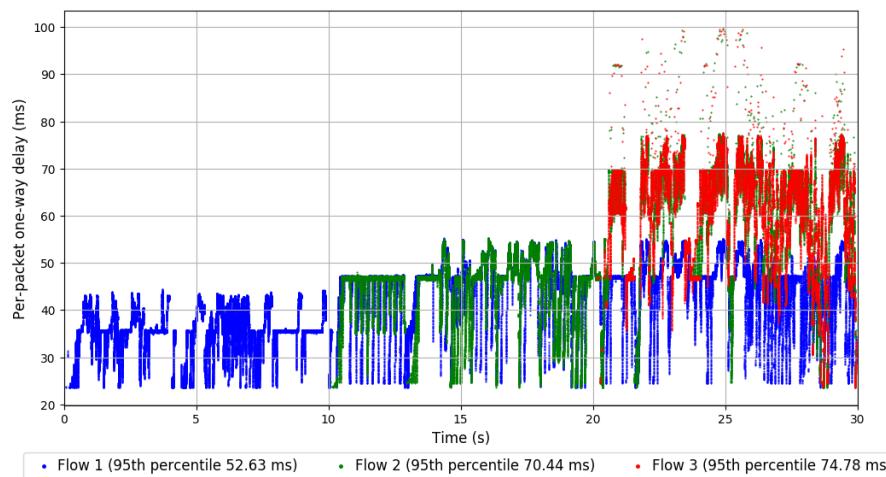
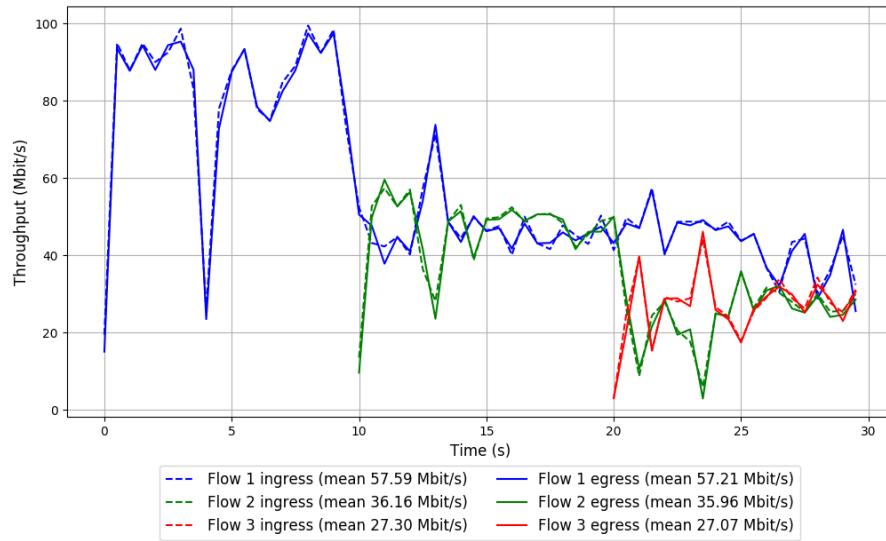


Run 7: Statistics of Verus

```
Start at: 2017-12-05 21:05:34
End at: 2017-12-05 21:06:04
Local clock offset: -0.789 ms
Remote clock offset: -2.889 ms

# Below is generated by plot.py at 2017-12-06 02:08:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.07 Mbit/s
95th percentile per-packet one-way delay: 68.642 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 57.21 Mbit/s
95th percentile per-packet one-way delay: 52.630 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 35.96 Mbit/s
95th percentile per-packet one-way delay: 70.435 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 27.07 Mbit/s
95th percentile per-packet one-way delay: 74.782 ms
Loss rate: 1.89%
```

Run 7: Report of Verus — Data Link

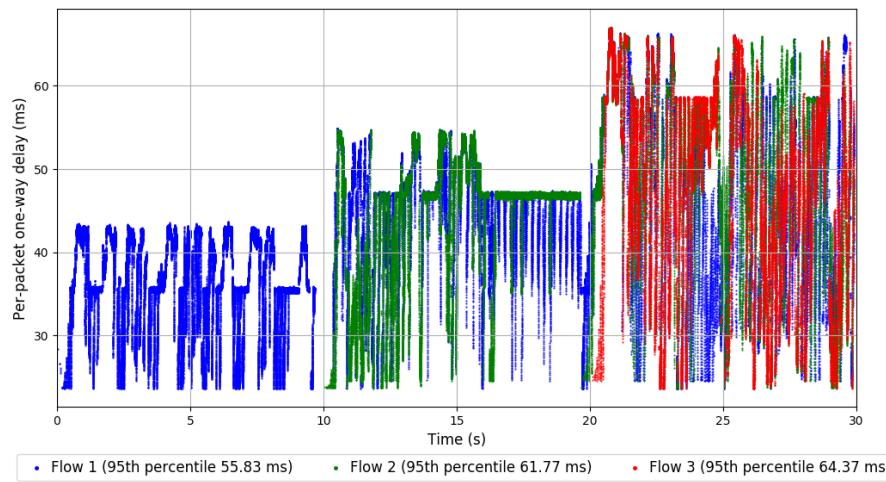
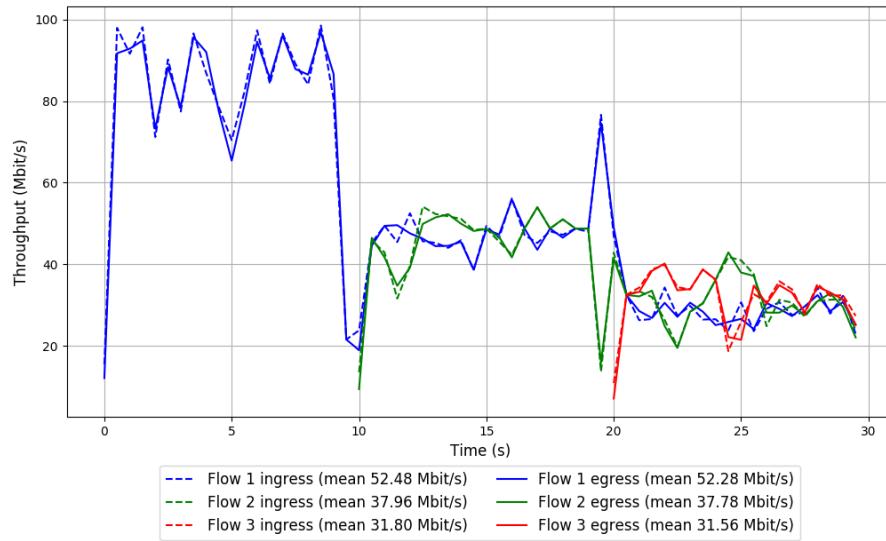


Run 8: Statistics of Verus

```
Start at: 2017-12-05 21:25:24
End at: 2017-12-05 21:25:54
Local clock offset: -0.532 ms
Remote clock offset: -3.639 ms

# Below is generated by plot.py at 2017-12-06 02:08:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.81 Mbit/s
95th percentile per-packet one-way delay: 60.305 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 52.28 Mbit/s
95th percentile per-packet one-way delay: 55.829 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 37.78 Mbit/s
95th percentile per-packet one-way delay: 61.767 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 31.56 Mbit/s
95th percentile per-packet one-way delay: 64.374 ms
Loss rate: 1.47%
```

Run 8: Report of Verus — Data Link

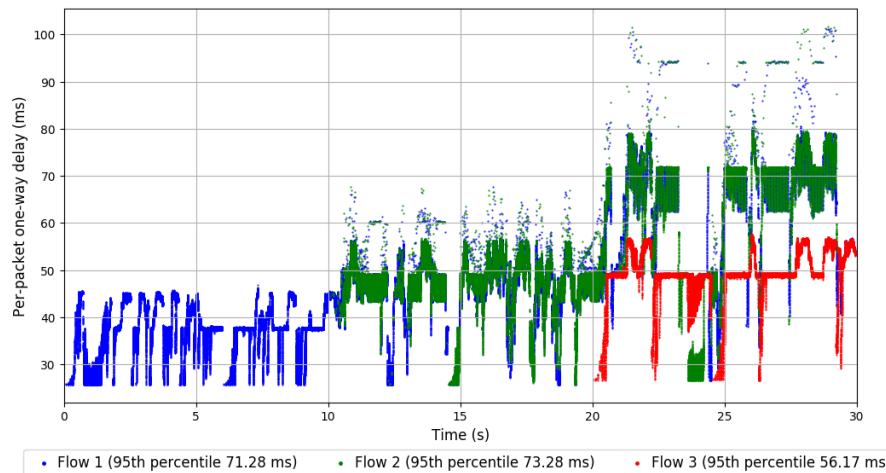
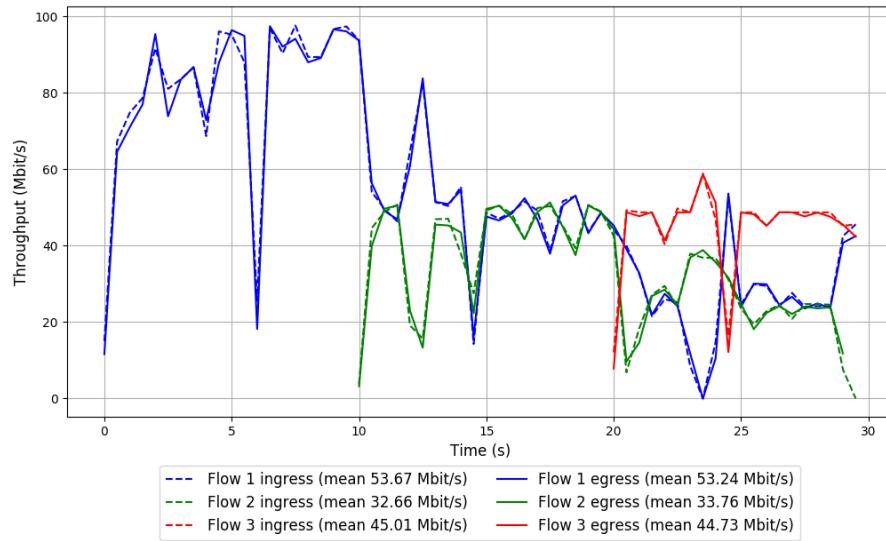


Run 9: Statistics of Verus

```
Start at: 2017-12-05 21:45:15
End at: 2017-12-05 21:45:45
Local clock offset: -0.362 ms
Remote clock offset: -5.782 ms

# Below is generated by plot.py at 2017-12-06 02:08:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.67 Mbit/s
95th percentile per-packet one-way delay: 71.581 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 53.24 Mbit/s
95th percentile per-packet one-way delay: 71.277 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 33.76 Mbit/s
95th percentile per-packet one-way delay: 73.284 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 44.73 Mbit/s
95th percentile per-packet one-way delay: 56.172 ms
Loss rate: 1.27%
```

Run 9: Report of Verus — Data Link

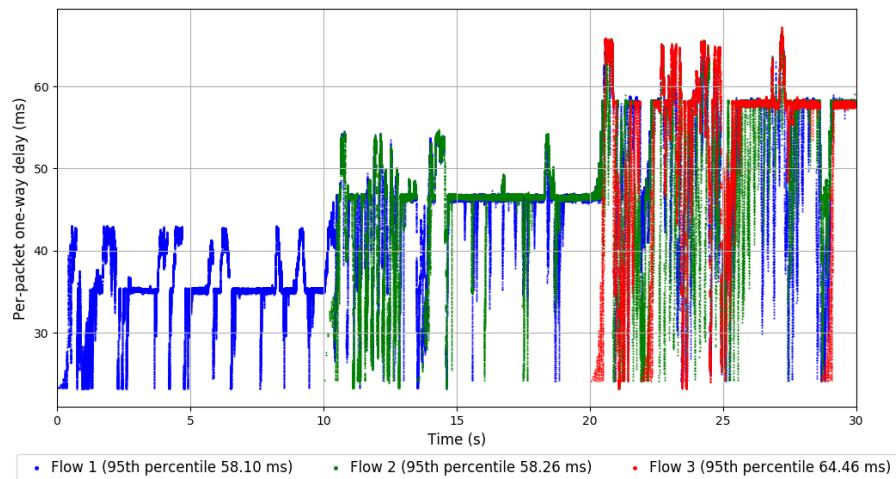
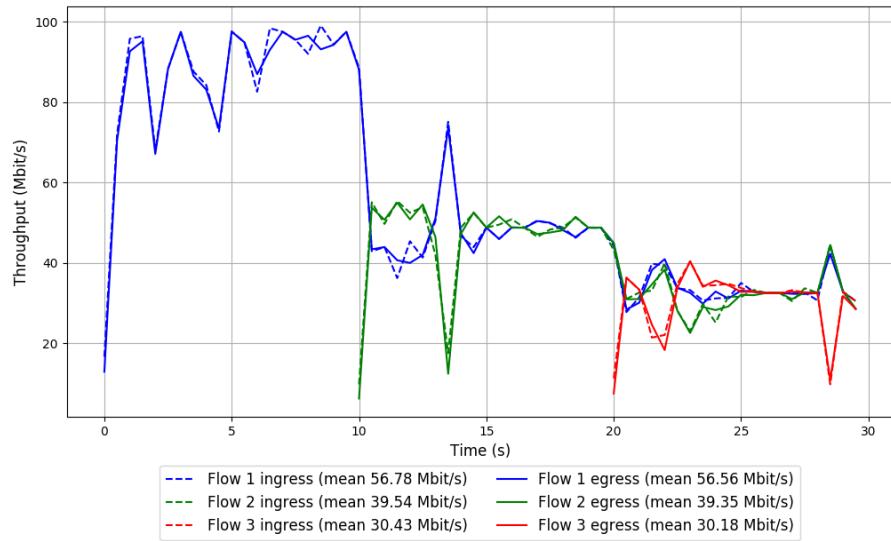


Run 10: Statistics of Verus

```
Start at: 2017-12-05 22:05:08
End at: 2017-12-05 22:05:39
Local clock offset: -0.391 ms
Remote clock offset: -2.524 ms

# Below is generated by plot.py at 2017-12-06 02:08:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.73 Mbit/s
95th percentile per-packet one-way delay: 58.299 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 56.56 Mbit/s
95th percentile per-packet one-way delay: 58.101 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 39.35 Mbit/s
95th percentile per-packet one-way delay: 58.256 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 30.18 Mbit/s
95th percentile per-packet one-way delay: 64.459 ms
Loss rate: 1.34%
```

Run 10: Report of Verus — Data Link

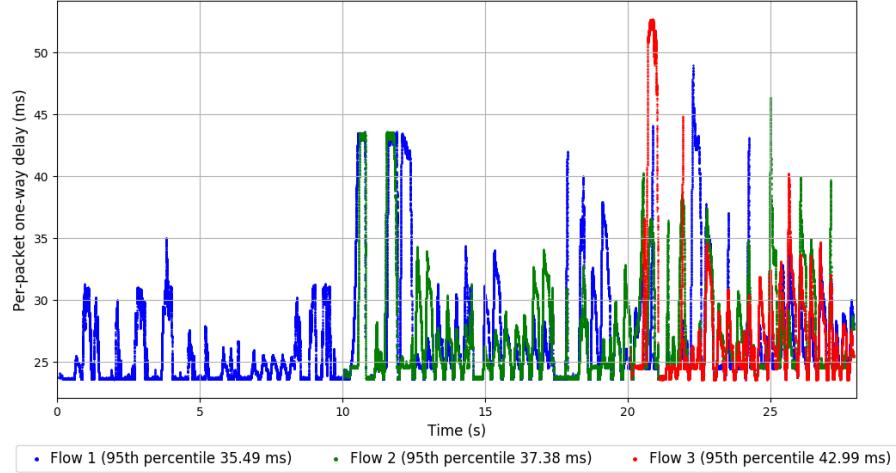
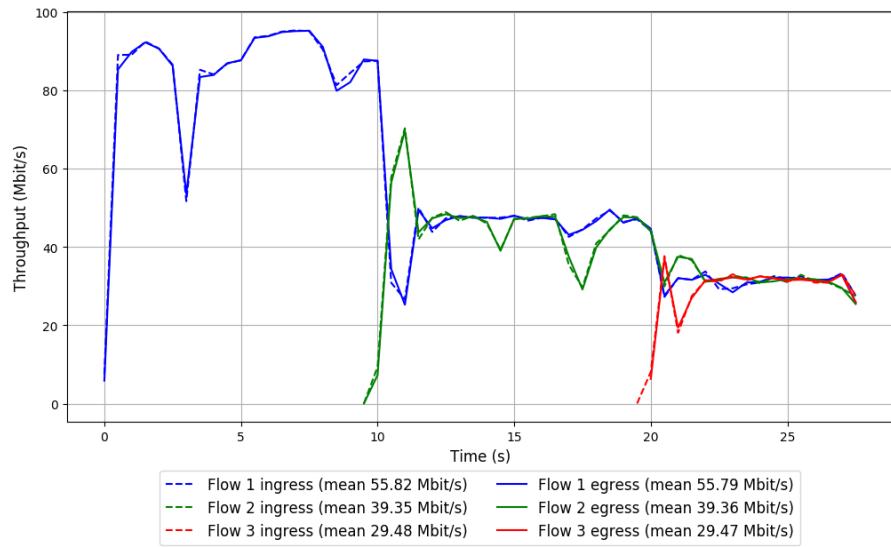


Run 1: Statistics of Copa

```
Start at: 2017-12-05 18:57:03
End at: 2017-12-05 18:57:33
Local clock offset: -0.613 ms
Remote clock offset: -3.084 ms

# Below is generated by plot.py at 2017-12-06 02:09:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.42 Mbit/s
95th percentile per-packet one-way delay: 36.362 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 55.79 Mbit/s
95th percentile per-packet one-way delay: 35.494 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 39.36 Mbit/s
95th percentile per-packet one-way delay: 37.378 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 29.47 Mbit/s
95th percentile per-packet one-way delay: 42.988 ms
Loss rate: 0.74%
```

Run 1: Report of Copa — Data Link

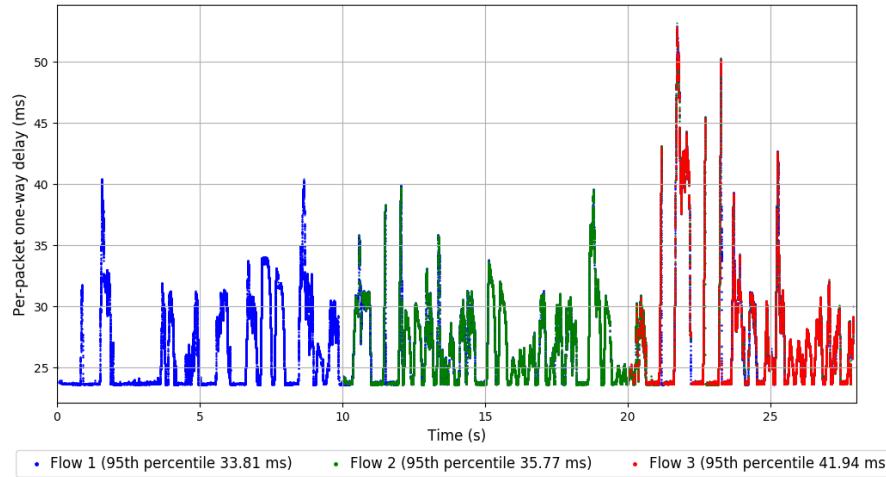
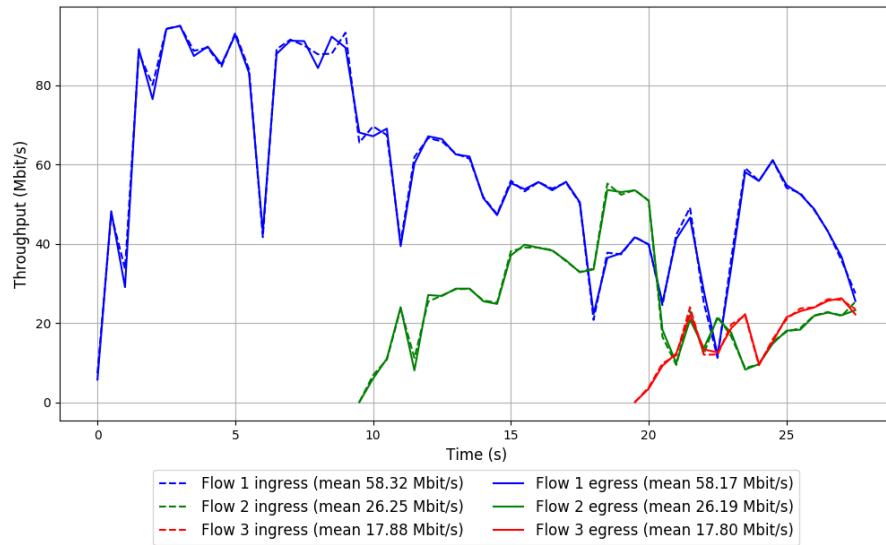


Run 2: Statistics of Copa

```
Start at: 2017-12-05 19:16:45
End at: 2017-12-05 19:17:15
Local clock offset: -0.662 ms
Remote clock offset: -3.226 ms

# Below is generated by plot.py at 2017-12-06 02:09:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.04 Mbit/s
95th percentile per-packet one-way delay: 34.394 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 58.17 Mbit/s
95th percentile per-packet one-way delay: 33.812 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 26.19 Mbit/s
95th percentile per-packet one-way delay: 35.769 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 17.80 Mbit/s
95th percentile per-packet one-way delay: 41.944 ms
Loss rate: 1.12%
```

Run 2: Report of Copa — Data Link

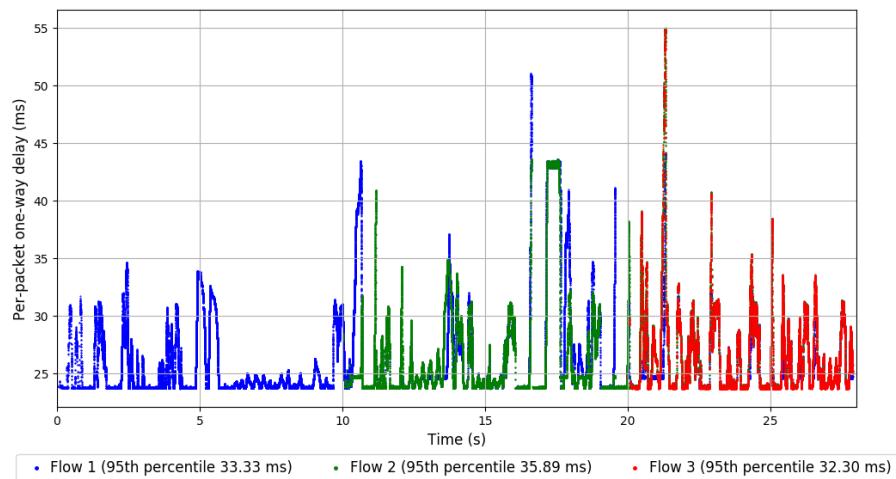
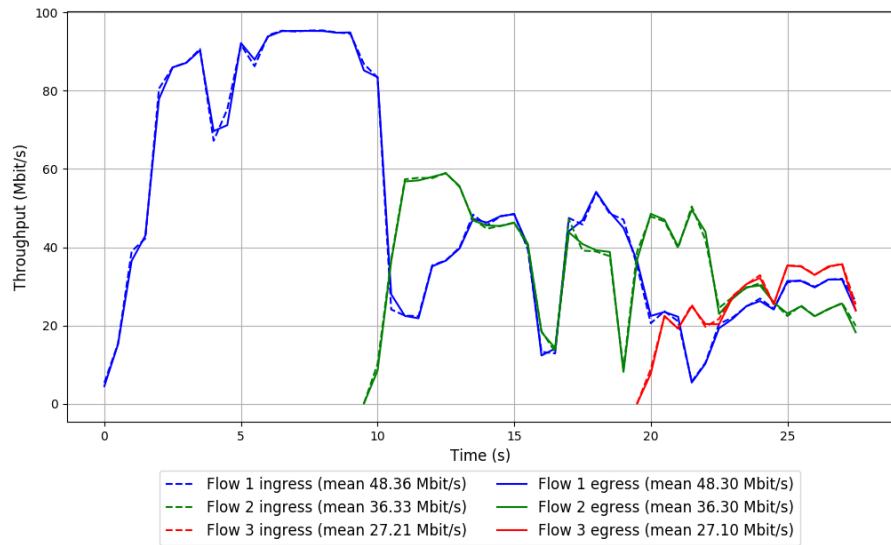


Run 3: Statistics of Copa

```
Start at: 2017-12-05 19:36:24
End at: 2017-12-05 19:36:54
Local clock offset: -0.59 ms
Remote clock offset: -2.934 ms

# Below is generated by plot.py at 2017-12-06 02:09:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.32 Mbit/s
95th percentile per-packet one-way delay: 33.616 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 48.30 Mbit/s
95th percentile per-packet one-way delay: 33.328 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 36.30 Mbit/s
95th percentile per-packet one-way delay: 35.886 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 27.10 Mbit/s
95th percentile per-packet one-way delay: 32.301 ms
Loss rate: 1.07%
```

Run 3: Report of Copa — Data Link

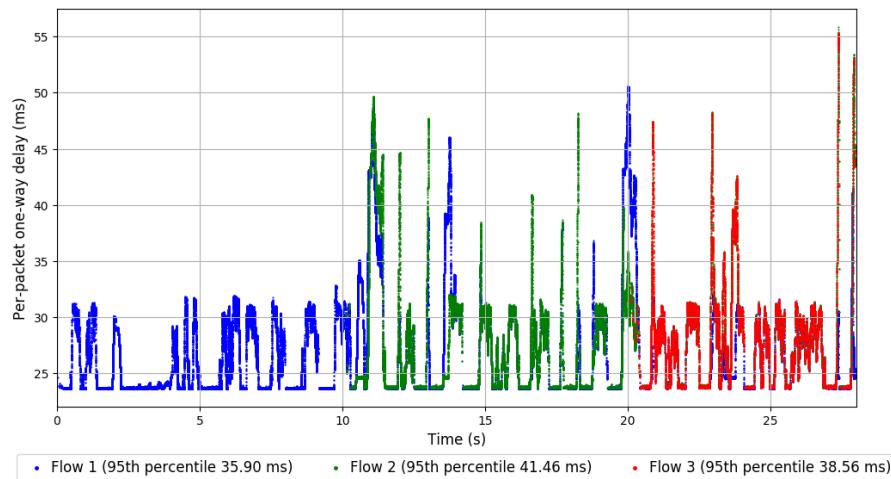
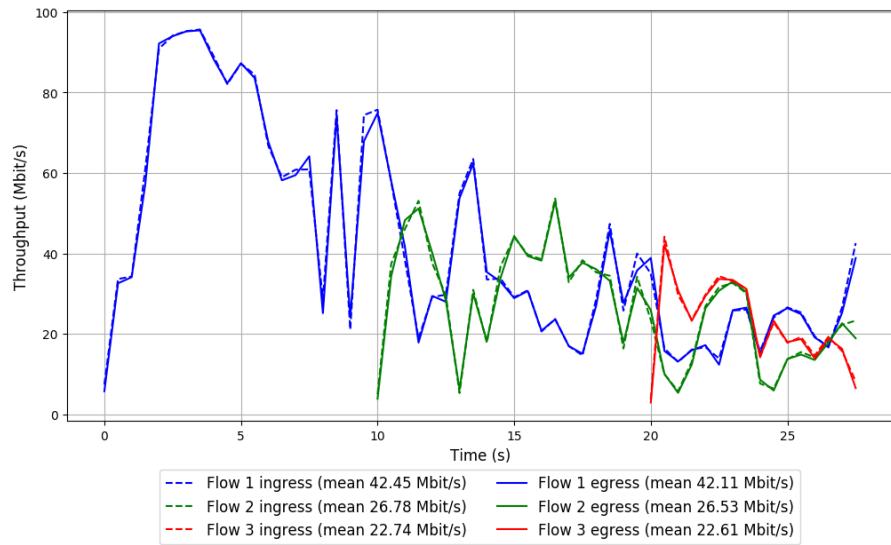


Run 4: Statistics of Copa

```
Start at: 2017-12-05 19:56:24
End at: 2017-12-05 19:56:55
Local clock offset: -0.695 ms
Remote clock offset: -2.281 ms

# Below is generated by plot.py at 2017-12-06 02:09:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.51 Mbit/s
95th percentile per-packet one-way delay: 38.544 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 42.11 Mbit/s
95th percentile per-packet one-way delay: 35.897 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 26.53 Mbit/s
95th percentile per-packet one-way delay: 41.459 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 22.61 Mbit/s
95th percentile per-packet one-way delay: 38.560 ms
Loss rate: 1.31%
```

Run 4: Report of Copa — Data Link

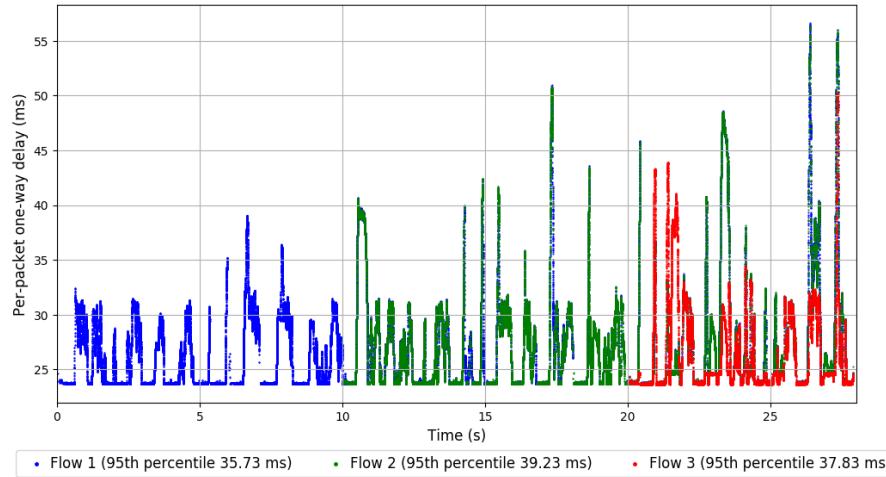
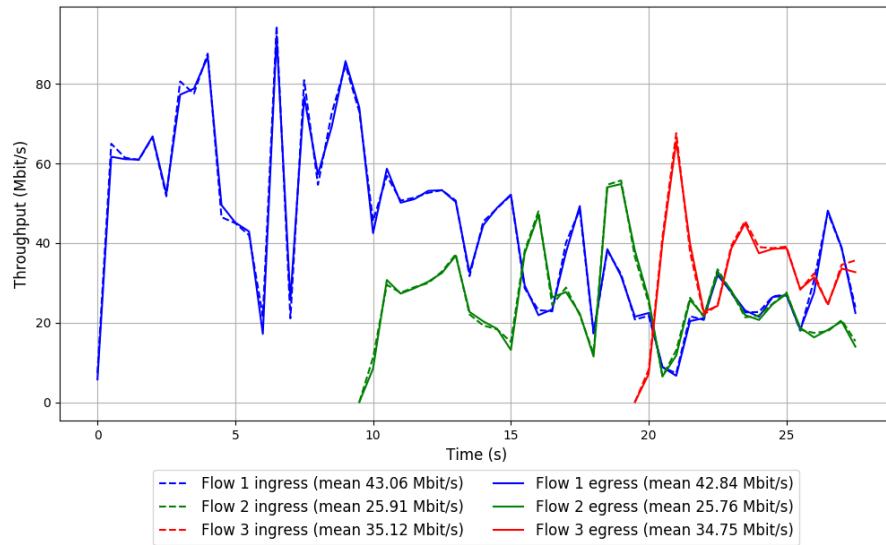


Run 5: Statistics of Copa

```
Start at: 2017-12-05 20:16:02
End at: 2017-12-05 20:16:32
Local clock offset: -0.621 ms
Remote clock offset: -1.726 ms

# Below is generated by plot.py at 2017-12-06 02:10:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.24 Mbit/s
95th percentile per-packet one-way delay: 37.617 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 42.84 Mbit/s
95th percentile per-packet one-way delay: 35.727 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 25.76 Mbit/s
95th percentile per-packet one-way delay: 39.229 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 34.75 Mbit/s
95th percentile per-packet one-way delay: 37.832 ms
Loss rate: 1.73%
```

Run 5: Report of Copa — Data Link

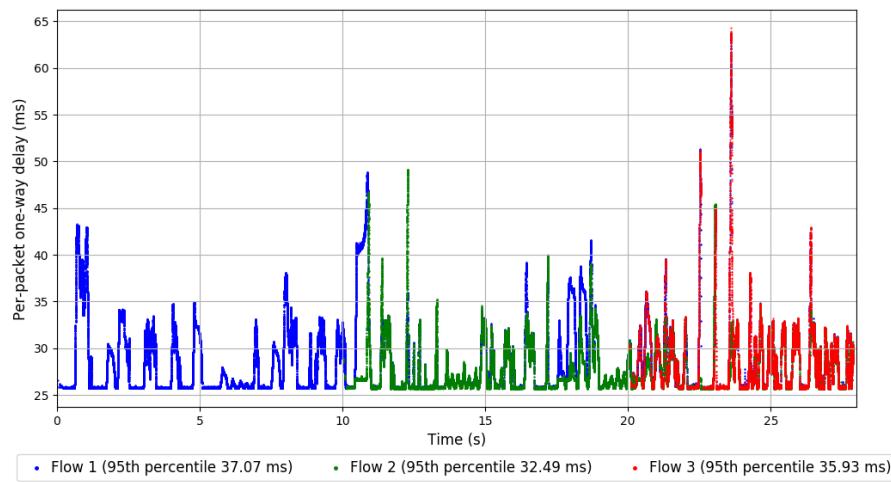
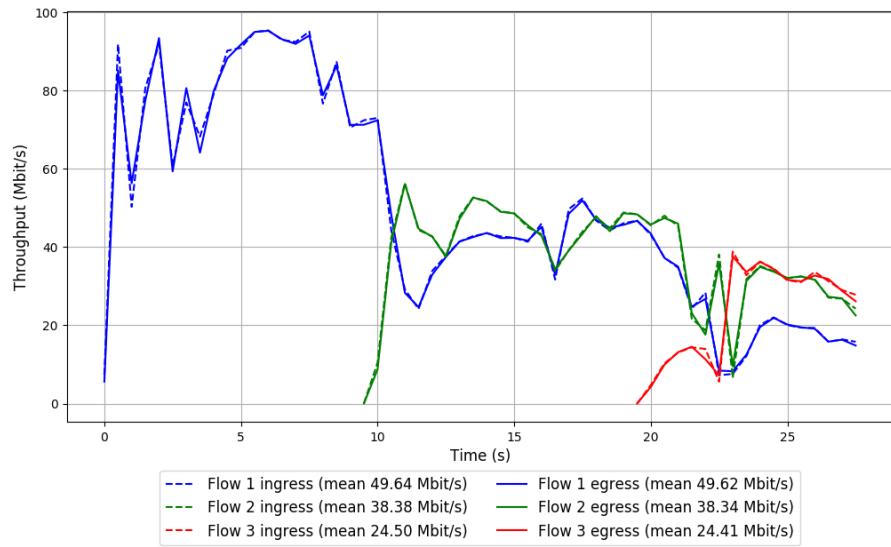


Run 6: Statistics of Copa

```
Start at: 2017-12-05 20:35:50
End at: 2017-12-05 20:36:20
Local clock offset: -0.67 ms
Remote clock offset: -4.133 ms

# Below is generated by plot.py at 2017-12-06 02:10:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.17 Mbit/s
95th percentile per-packet one-way delay: 35.947 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 49.62 Mbit/s
95th percentile per-packet one-way delay: 37.074 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 38.34 Mbit/s
95th percentile per-packet one-way delay: 32.495 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 24.41 Mbit/s
95th percentile per-packet one-way delay: 35.932 ms
Loss rate: 1.06%
```

Run 6: Report of Copa — Data Link

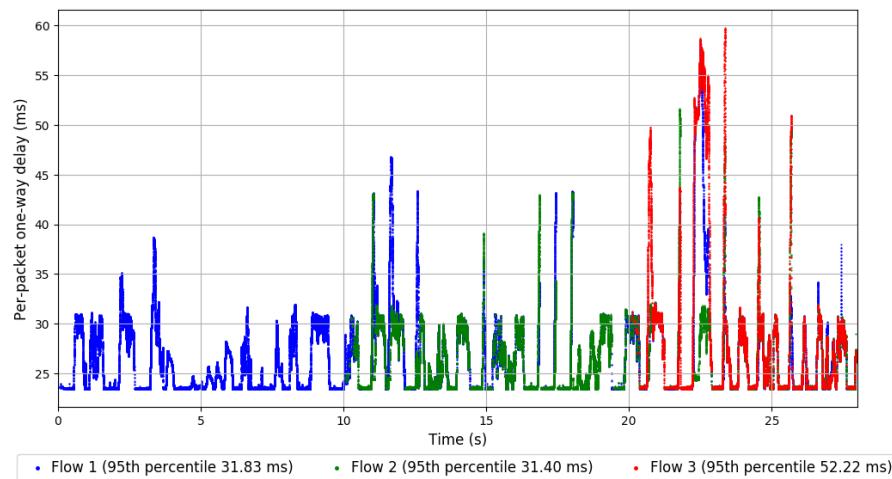
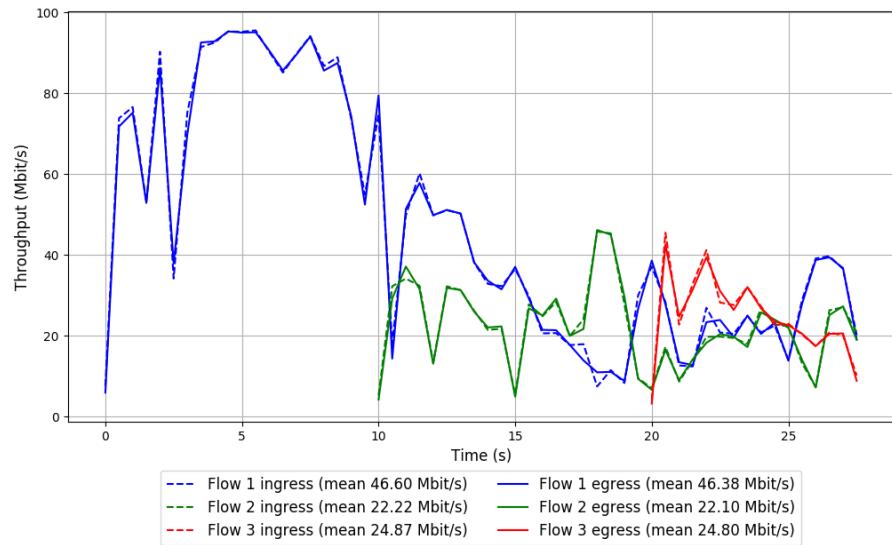


Run 7: Statistics of Copa

```
Start at: 2017-12-05 20:55:38
End at: 2017-12-05 20:56:08
Local clock offset: -0.767 ms
Remote clock offset: -2.458 ms

# Below is generated by plot.py at 2017-12-06 02:10:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.56 Mbit/s
95th percentile per-packet one-way delay: 33.861 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 46.38 Mbit/s
95th percentile per-packet one-way delay: 31.834 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 22.10 Mbit/s
95th percentile per-packet one-way delay: 31.398 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 24.80 Mbit/s
95th percentile per-packet one-way delay: 52.218 ms
Loss rate: 1.07%
```

Run 7: Report of Copa — Data Link

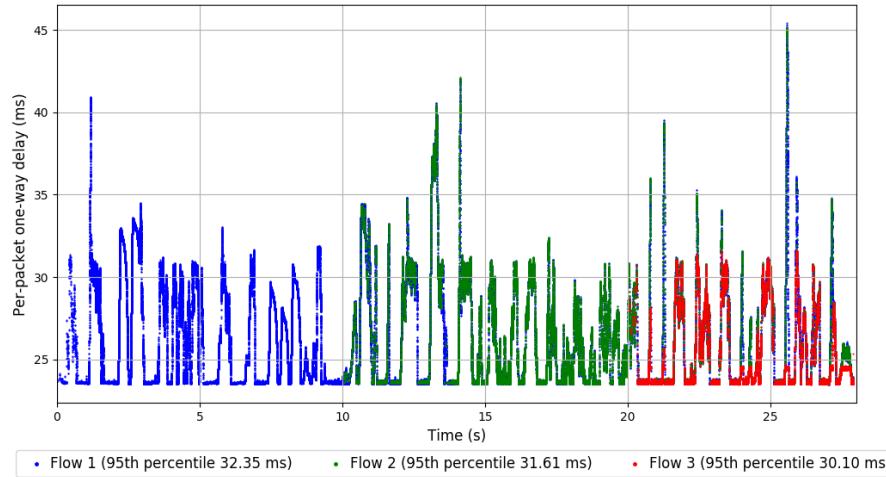
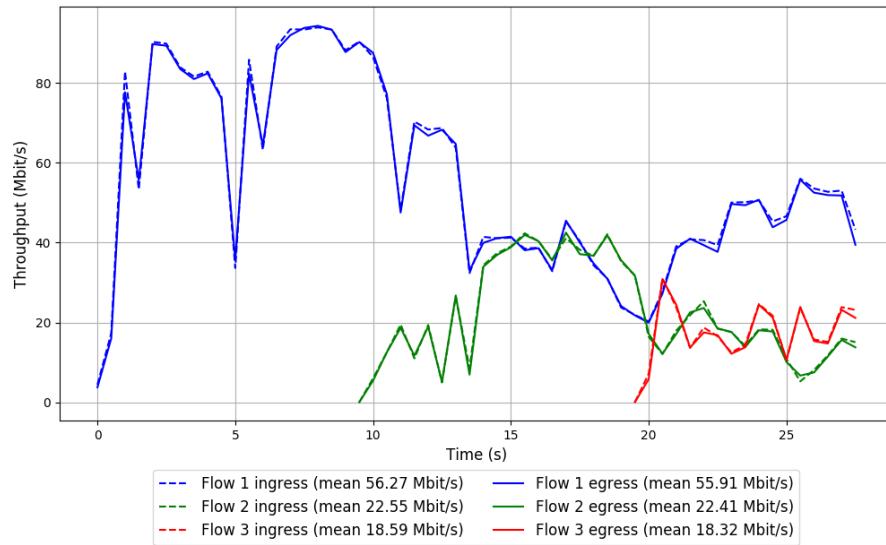


Run 8: Statistics of Copa

```
Start at: 2017-12-05 21:15:32
End at: 2017-12-05 21:16:02
Local clock offset: -0.722 ms
Remote clock offset: -3.171 ms

# Below is generated by plot.py at 2017-12-06 02:10:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.50 Mbit/s
95th percentile per-packet one-way delay: 32.093 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 55.91 Mbit/s
95th percentile per-packet one-way delay: 32.354 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 22.41 Mbit/s
95th percentile per-packet one-way delay: 31.615 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 18.32 Mbit/s
95th percentile per-packet one-way delay: 30.103 ms
Loss rate: 2.14%
```

Run 8: Report of Copa — Data Link

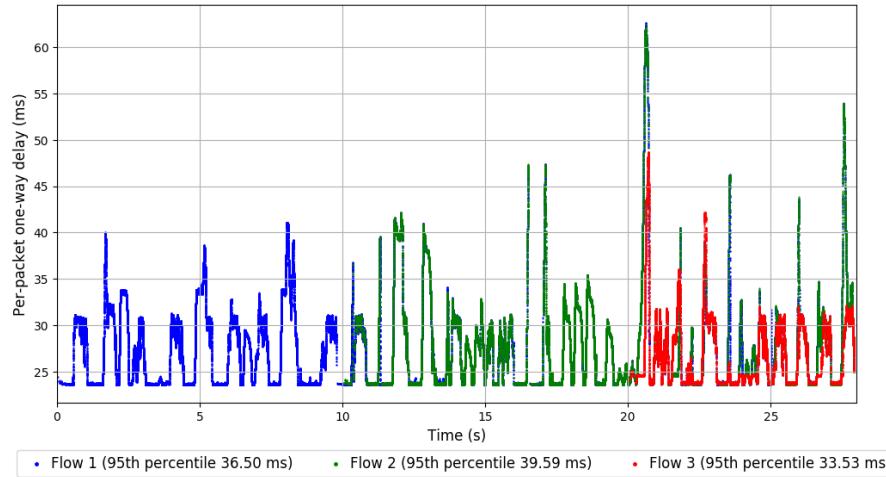
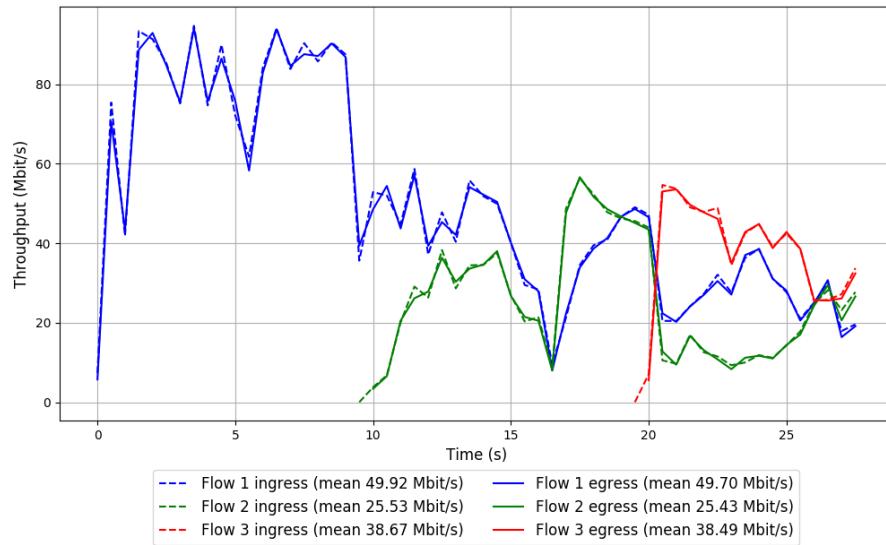


Run 9: Statistics of Copa

```
Start at: 2017-12-05 21:35:20
End at: 2017-12-05 21:35:50
Local clock offset: -0.556 ms
Remote clock offset: -3.919 ms

# Below is generated by plot.py at 2017-12-06 02:11:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.92 Mbit/s
95th percentile per-packet one-way delay: 37.359 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 49.70 Mbit/s
95th percentile per-packet one-way delay: 36.499 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 25.43 Mbit/s
95th percentile per-packet one-way delay: 39.588 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 38.49 Mbit/s
95th percentile per-packet one-way delay: 33.530 ms
Loss rate: 1.13%
```

Run 9: Report of Copa — Data Link

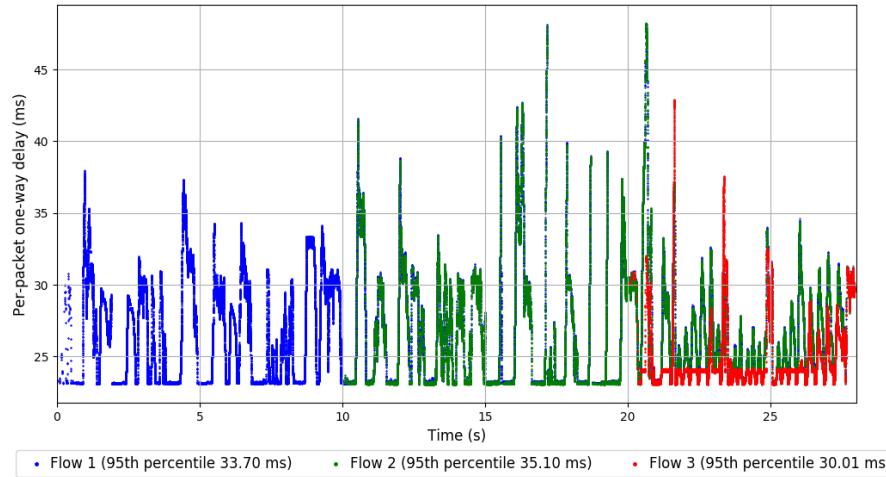
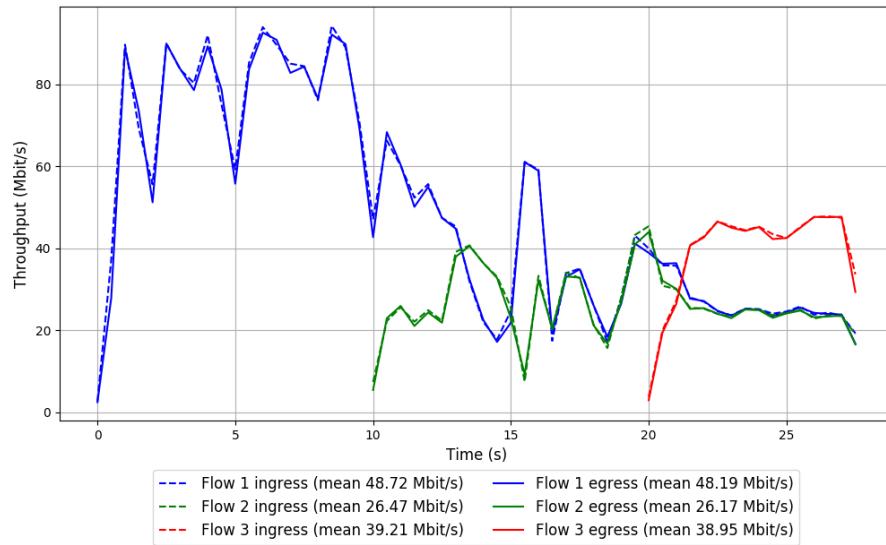


Run 10: Statistics of Copa

```
Start at: 2017-12-05 21:55:11
End at: 2017-12-05 21:55:41
Local clock offset: -0.422 ms
Remote clock offset: -2.845 ms

# Below is generated by plot.py at 2017-12-06 02:11:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.99 Mbit/s
95th percentile per-packet one-way delay: 33.569 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 48.19 Mbit/s
95th percentile per-packet one-way delay: 33.696 ms
Loss rate: 1.27%
-- Flow 2:
Average throughput: 26.17 Mbit/s
95th percentile per-packet one-way delay: 35.104 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 38.95 Mbit/s
95th percentile per-packet one-way delay: 30.008 ms
Loss rate: 1.42%
```

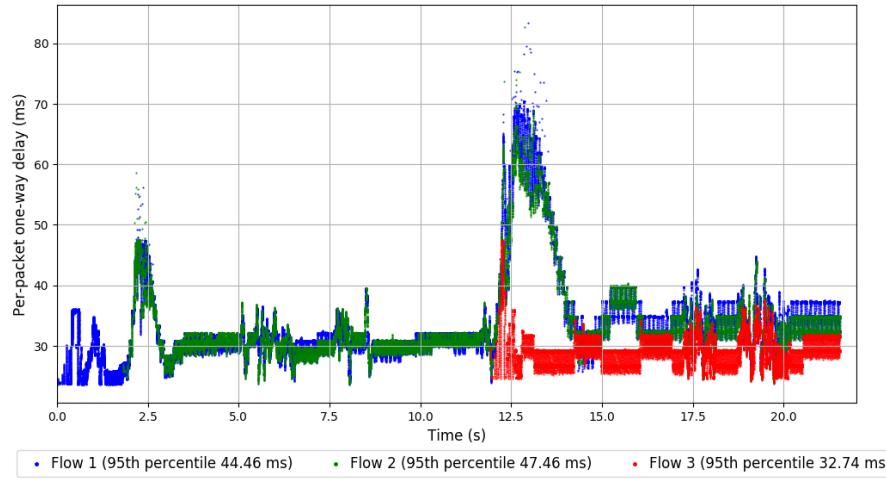
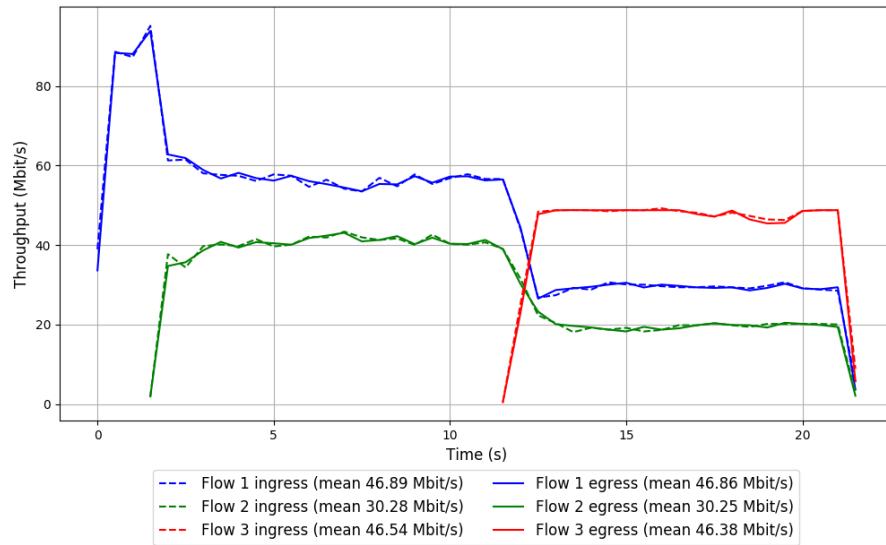
Run 10: Report of Copa — Data Link



Run 1: Statistics of Indigo

Start at: 2017-12-05 18:58:35
End at: 2017-12-05 18:59:05
Local clock offset: -0.62 ms
Remote clock offset: -3.148 ms

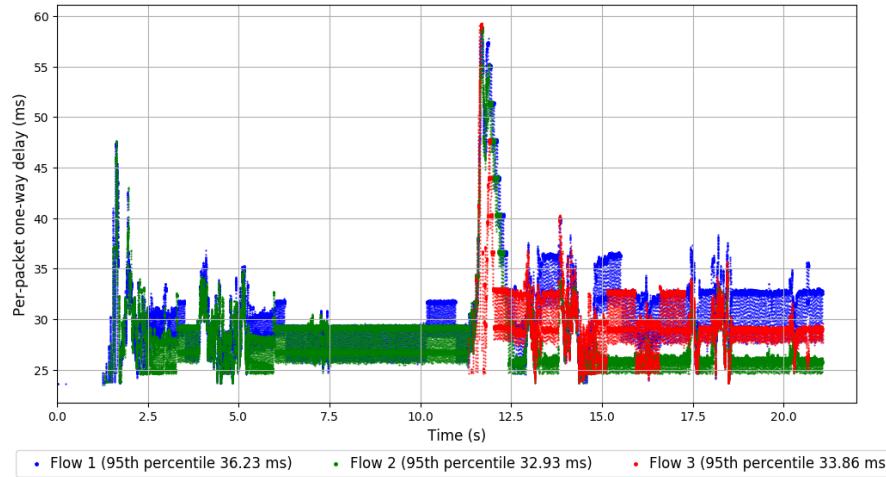
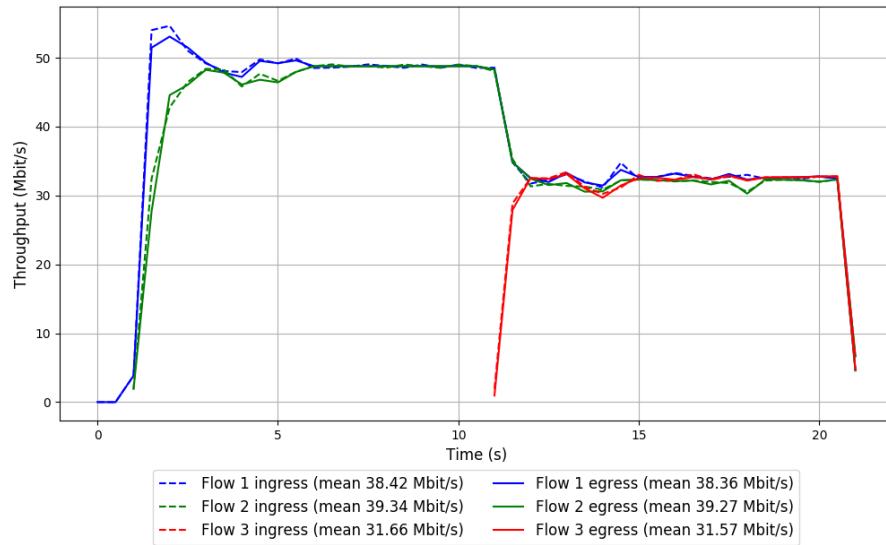
Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-12-05 19:18:15
End at: 2017-12-05 19:18:45
Local clock offset: -0.559 ms
Remote clock offset: -3.179 ms

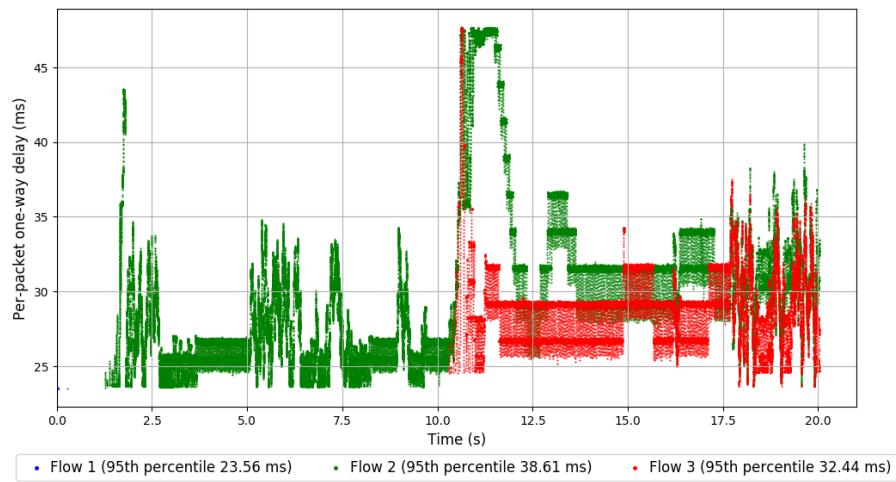
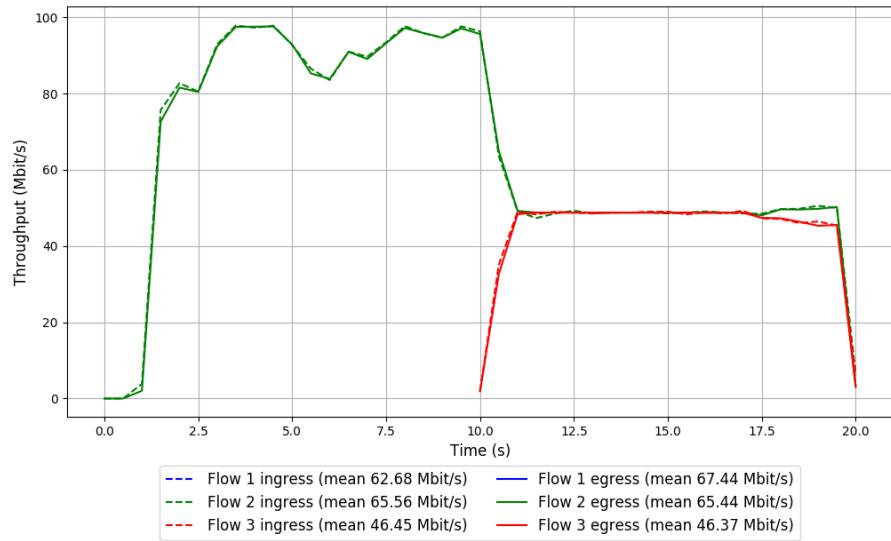
Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-12-05 19:37:56
End at: 2017-12-05 19:38:26
Local clock offset: -0.673 ms
Remote clock offset: -2.933 ms

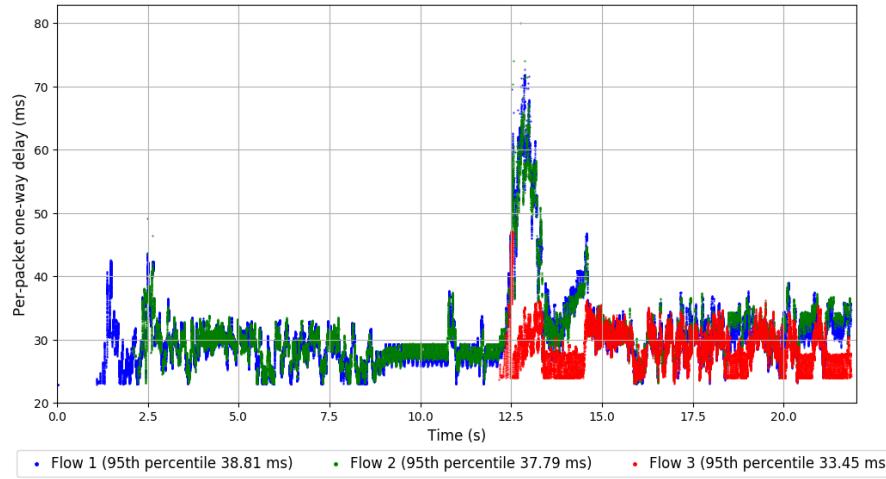
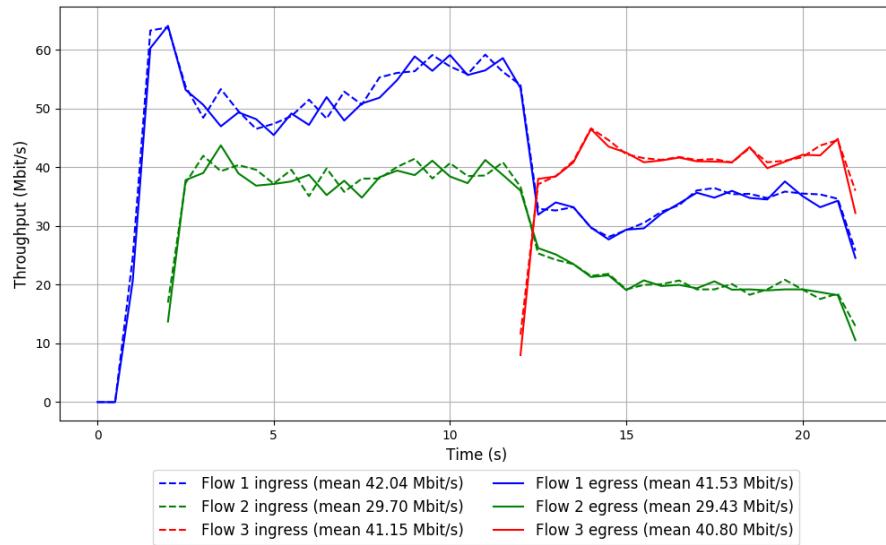
Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-12-05 19:57:56
End at: 2017-12-05 19:58:26
Local clock offset: -0.705 ms
Remote clock offset: -1.642 ms

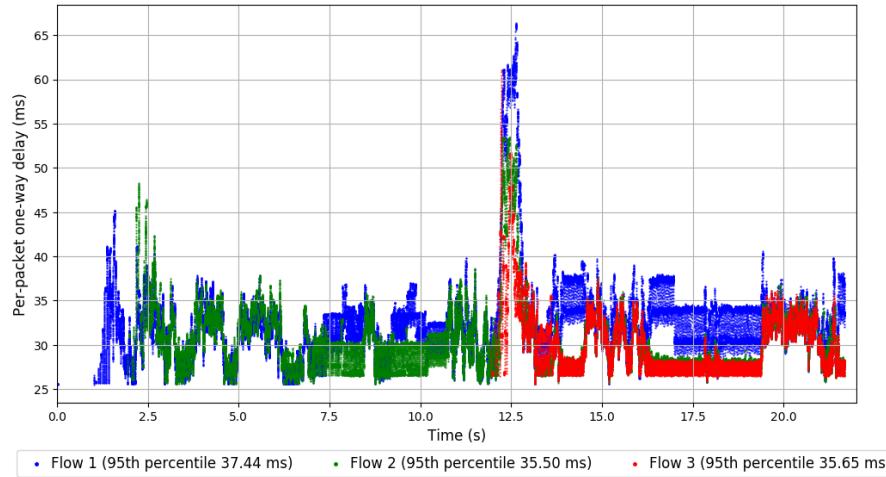
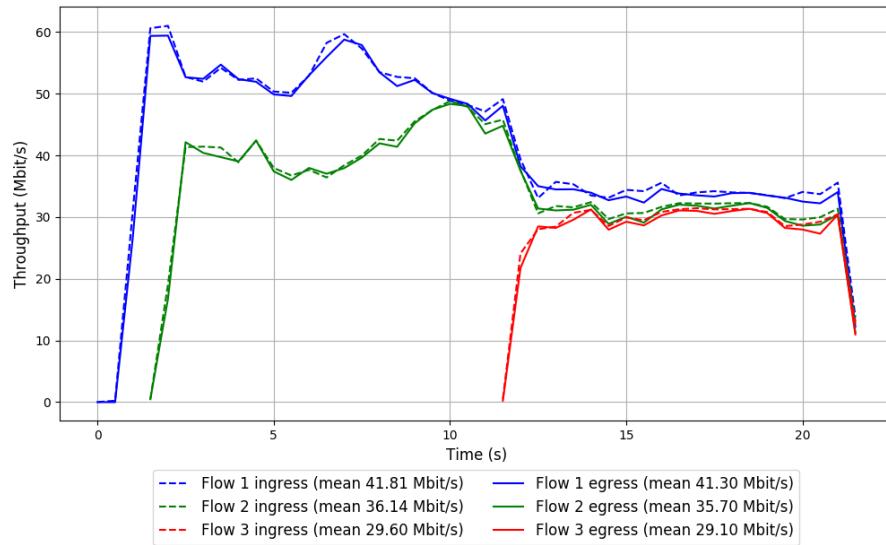
Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-12-05 20:17:37
End at: 2017-12-05 20:18:07
Local clock offset: -0.691 ms
Remote clock offset: -3.765 ms

Run 5: Report of Indigo — Data Link

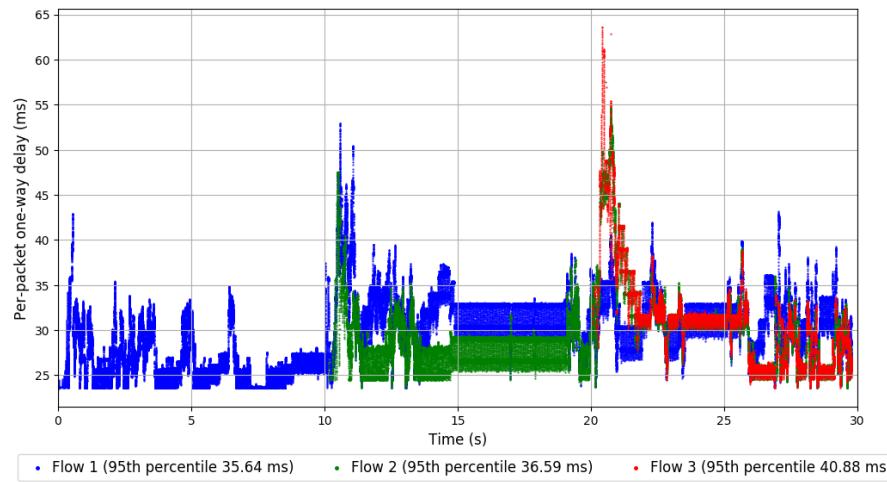
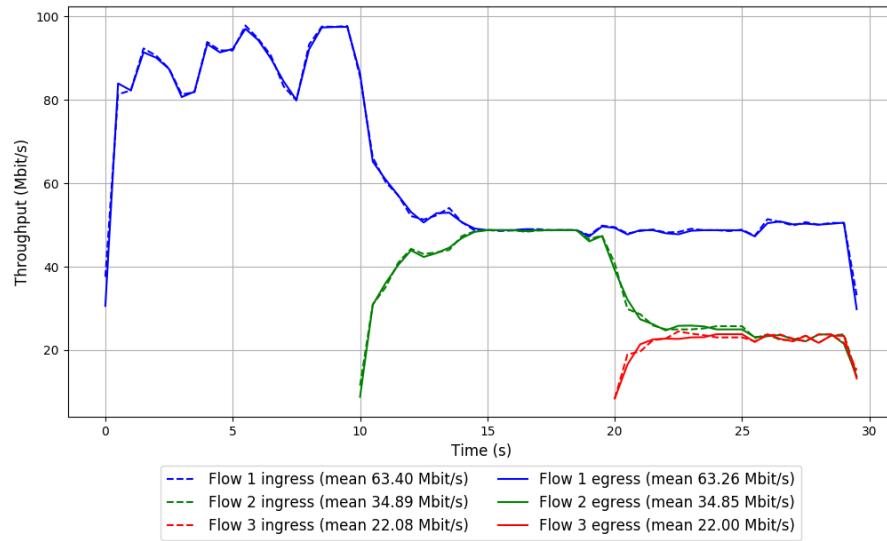


Run 6: Statistics of Indigo

```
Start at: 2017-12-05 20:37:17
End at: 2017-12-05 20:37:47
Local clock offset: -0.67 ms
Remote clock offset: -2.074 ms

# Below is generated by plot.py at 2017-12-06 02:11:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.42 Mbit/s
95th percentile per-packet one-way delay: 35.987 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 63.26 Mbit/s
95th percentile per-packet one-way delay: 35.637 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 34.85 Mbit/s
95th percentile per-packet one-way delay: 36.593 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 22.00 Mbit/s
95th percentile per-packet one-way delay: 40.879 ms
Loss rate: 1.01%
```

Run 6: Report of Indigo — Data Link

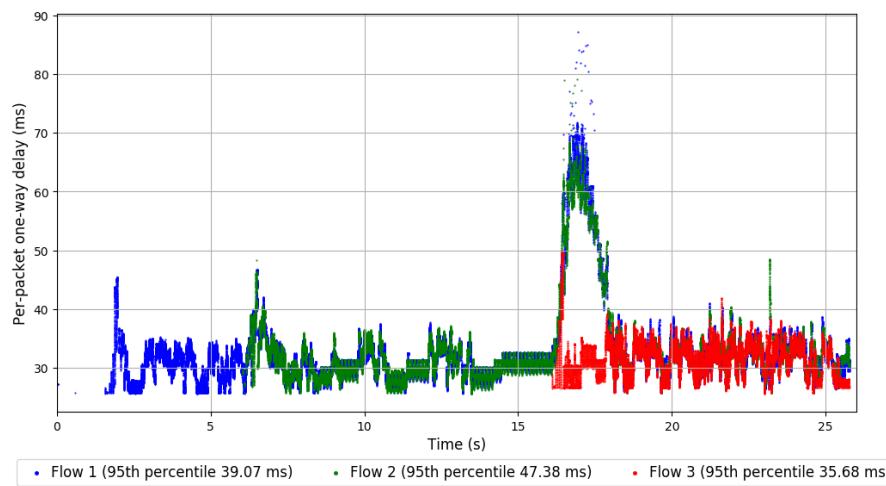
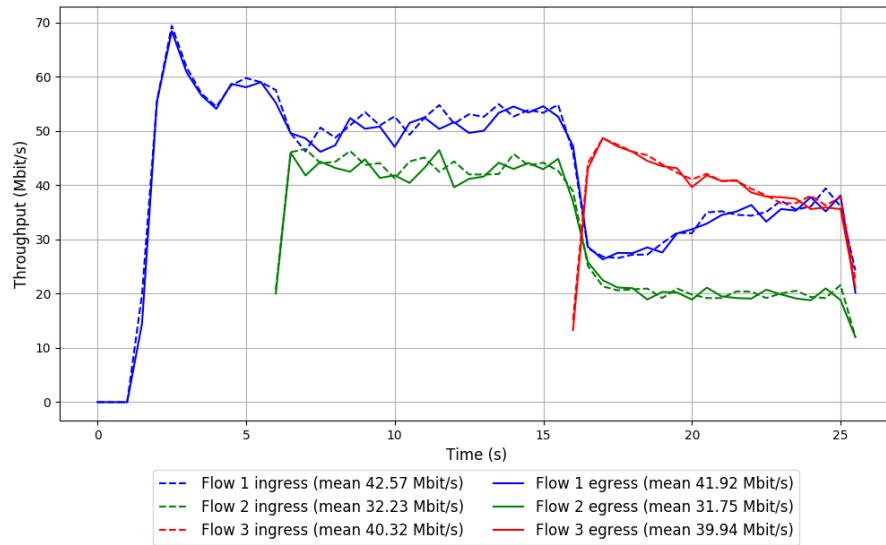


Run 7: Statistics of Indigo

```
Start at: 2017-12-05 20:57:11
End at: 2017-12-05 20:57:41
Local clock offset: -0.781 ms
Remote clock offset: -4.716 ms

# Below is generated by plot.py at 2017-12-06 02:11:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.26 Mbit/s
95th percentile per-packet one-way delay: 38.925 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 41.92 Mbit/s
95th percentile per-packet one-way delay: 39.073 ms
Loss rate: 1.74%
-- Flow 2:
Average throughput: 31.75 Mbit/s
95th percentile per-packet one-way delay: 47.384 ms
Loss rate: 1.76%
-- Flow 3:
Average throughput: 39.94 Mbit/s
95th percentile per-packet one-way delay: 35.682 ms
Loss rate: 1.39%
```

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

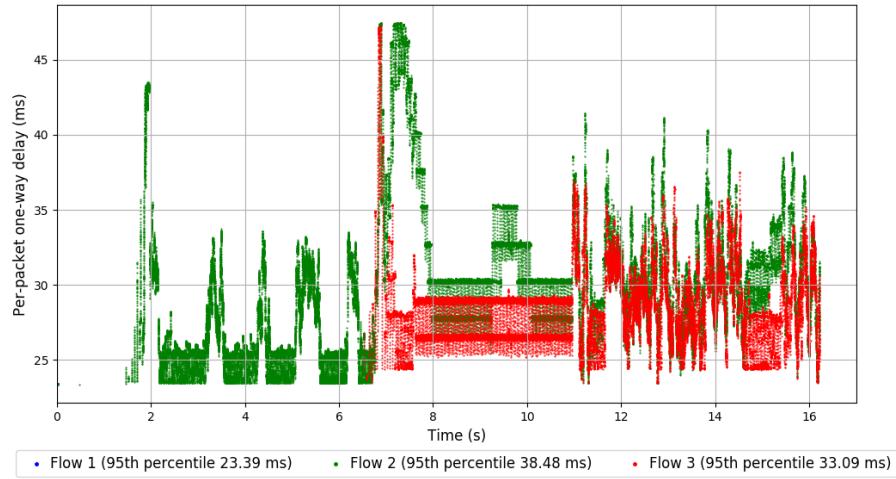
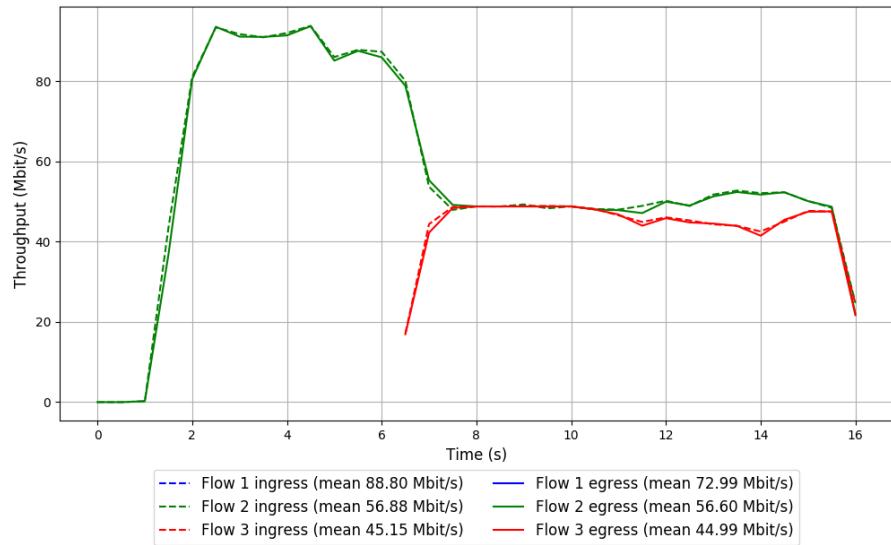
Start at: 2017-12-05 21:17:06

End at: 2017-12-05 21:17:36

Local clock offset: -0.698 ms

Remote clock offset: -3.214 ms

Run 8: Report of Indigo — Data Link

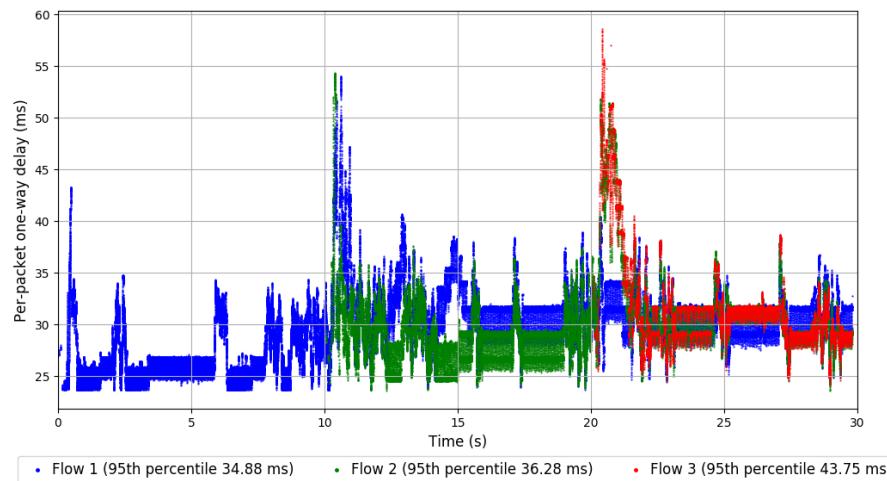
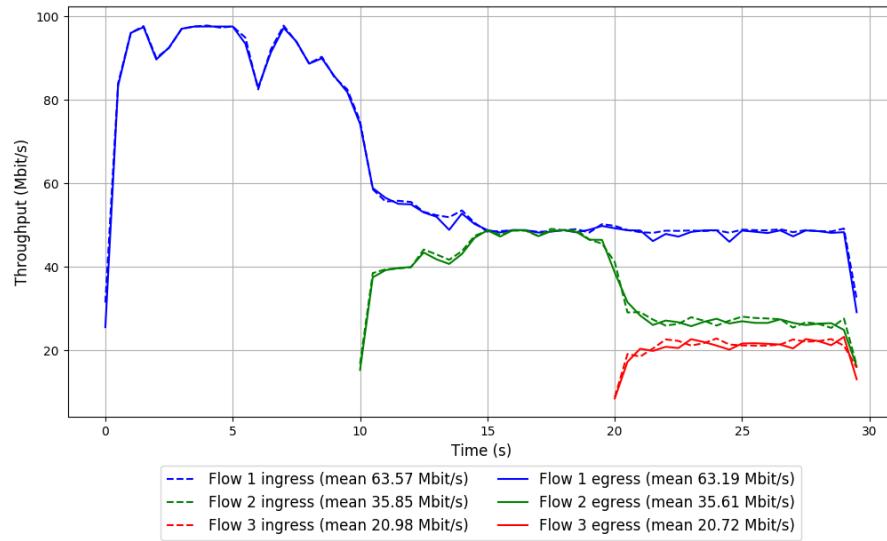


Run 9: Statistics of Indigo

```
Start at: 2017-12-05 21:36:49
End at: 2017-12-05 21:37:19
Local clock offset: -0.535 ms
Remote clock offset: -3.916 ms

# Below is generated by plot.py at 2017-12-06 02:12:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.54 Mbit/s
95th percentile per-packet one-way delay: 35.377 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 63.19 Mbit/s
95th percentile per-packet one-way delay: 34.878 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 35.61 Mbit/s
95th percentile per-packet one-way delay: 36.283 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 20.72 Mbit/s
95th percentile per-packet one-way delay: 43.751 ms
Loss rate: 1.87%
```

Run 9: Report of Indigo — Data Link

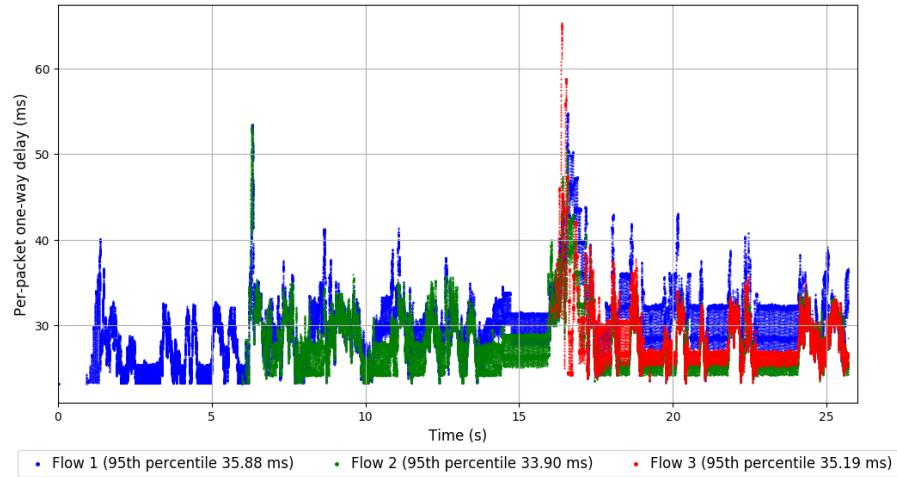
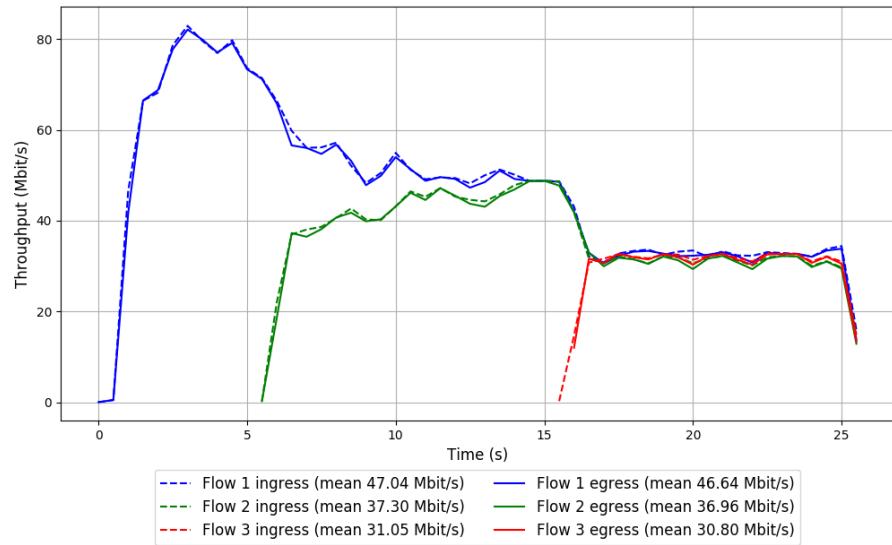


Run 10: Statistics of Indigo

```
Start at: 2017-12-05 21:56:47
End at: 2017-12-05 21:57:17
Local clock offset: -0.32 ms
Remote clock offset: -2.911 ms

# Below is generated by plot.py at 2017-12-06 02:12:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.65 Mbit/s
95th percentile per-packet one-way delay: 35.386 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 46.64 Mbit/s
95th percentile per-packet one-way delay: 35.882 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 36.96 Mbit/s
95th percentile per-packet one-way delay: 33.897 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 30.80 Mbit/s
95th percentile per-packet one-way delay: 35.190 ms
Loss rate: 1.42%
```

Run 10: Report of Indigo — Data Link

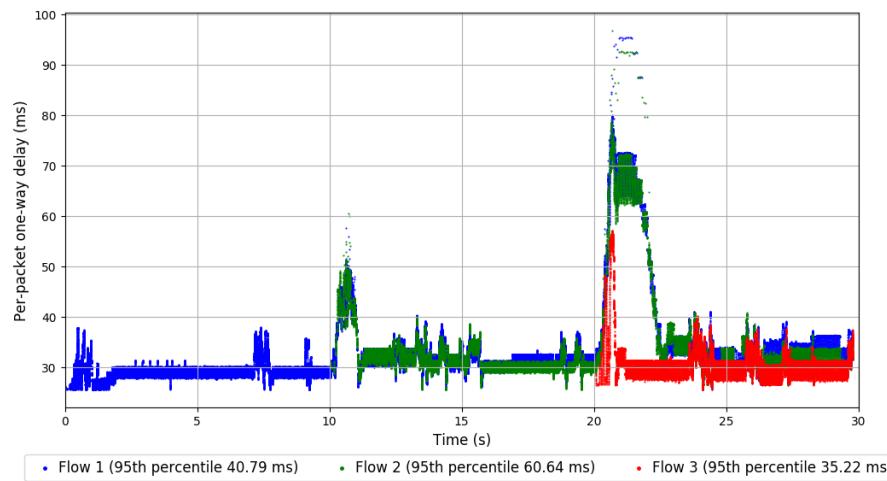
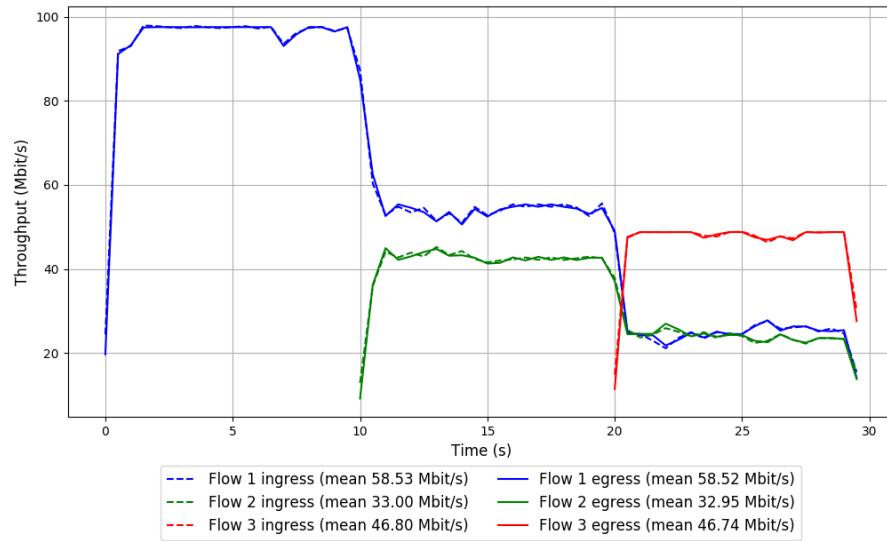


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-05 19:09:42
End at: 2017-12-05 19:10:12
Local clock offset: -0.666 ms
Remote clock offset: -5.329 ms

# Below is generated by plot.py at 2017-12-06 02:12:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.59 Mbit/s
95th percentile per-packet one-way delay: 42.564 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 58.52 Mbit/s
95th percentile per-packet one-way delay: 40.787 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 32.95 Mbit/s
95th percentile per-packet one-way delay: 60.640 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 46.74 Mbit/s
95th percentile per-packet one-way delay: 35.222 ms
Loss rate: 0.66%
```

Run 1: Report of Indigo-calib — Data Link

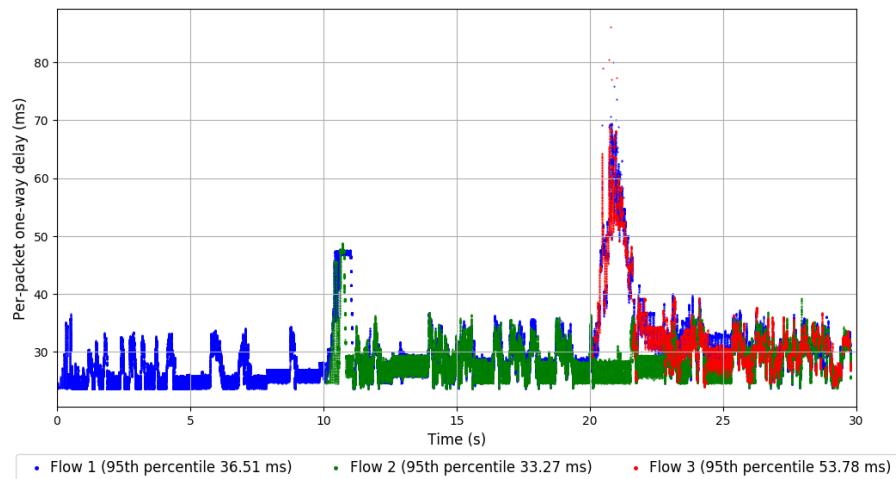
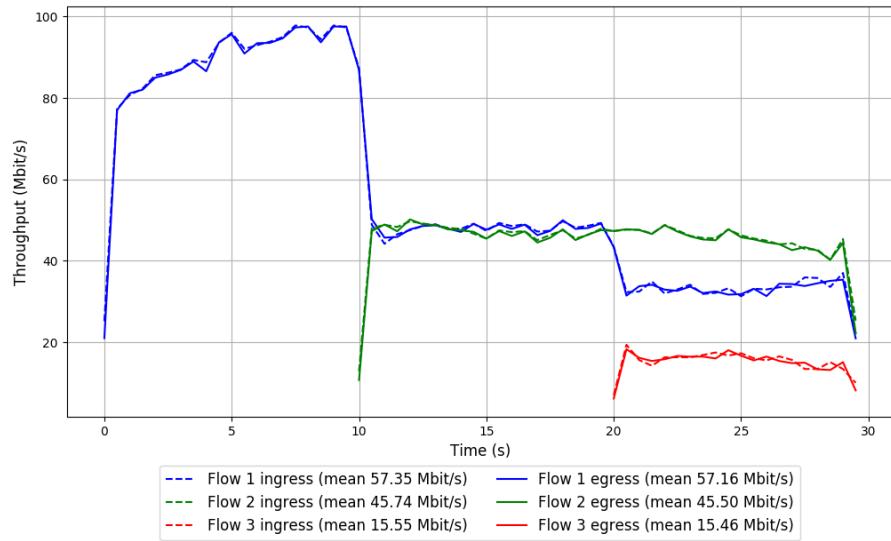


Run 2: Statistics of Indigo-calib

```
Start at: 2017-12-05 19:29:22
End at: 2017-12-05 19:29:52
Local clock offset: -0.563 ms
Remote clock offset: -2.936 ms

# Below is generated by plot.py at 2017-12-06 02:12:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.27 Mbit/s
95th percentile per-packet one-way delay: 35.624 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 57.16 Mbit/s
95th percentile per-packet one-way delay: 36.514 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 45.50 Mbit/s
95th percentile per-packet one-way delay: 33.274 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 15.46 Mbit/s
95th percentile per-packet one-way delay: 53.777 ms
Loss rate: 1.15%
```

Run 2: Report of Indigo-calib — Data Link

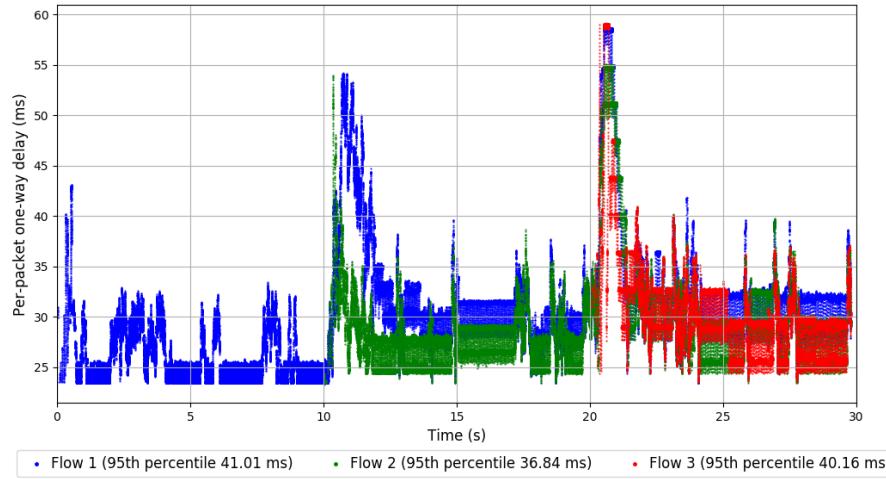
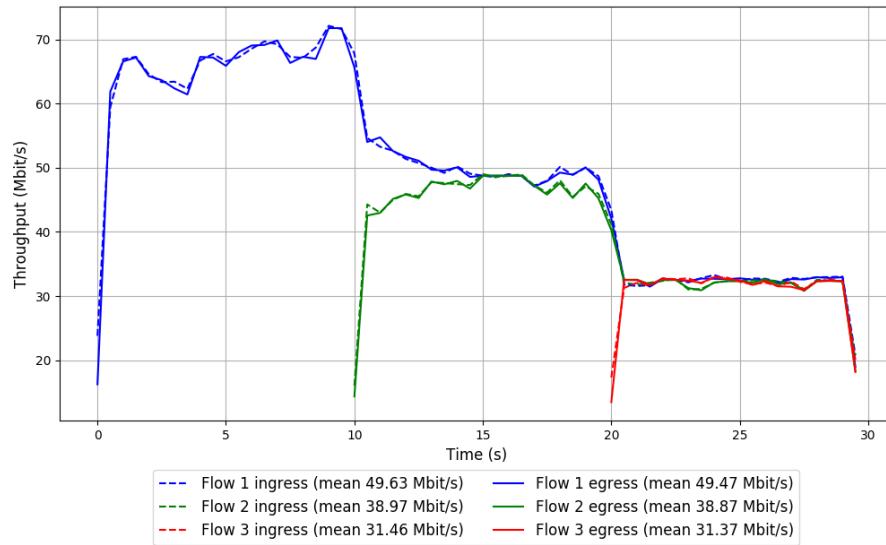


Run 3: Statistics of Indigo-calib

```
Start at: 2017-12-05 19:49:14
End at: 2017-12-05 19:49:44
Local clock offset: -0.692 ms
Remote clock offset: -2.378 ms

# Below is generated by plot.py at 2017-12-06 02:12:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.51 Mbit/s
95th percentile per-packet one-way delay: 40.056 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 49.47 Mbit/s
95th percentile per-packet one-way delay: 41.011 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 38.87 Mbit/s
95th percentile per-packet one-way delay: 36.839 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 31.37 Mbit/s
95th percentile per-packet one-way delay: 40.160 ms
Loss rate: 0.89%
```

Run 3: Report of Indigo-calib — Data Link

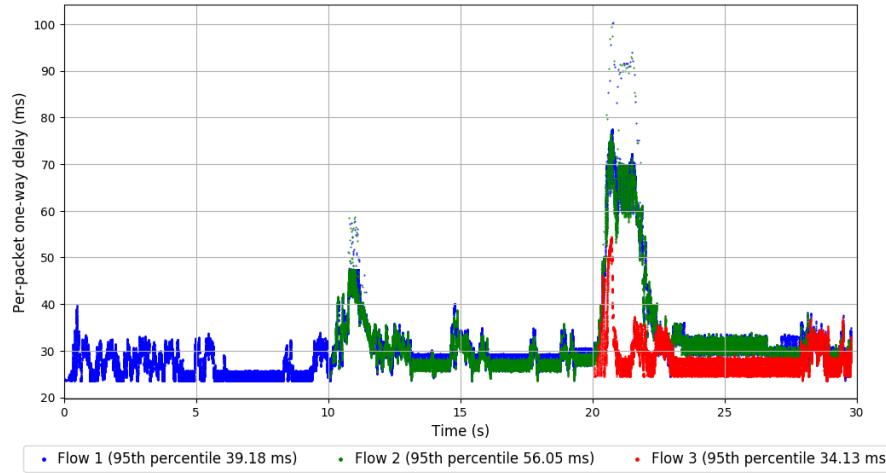
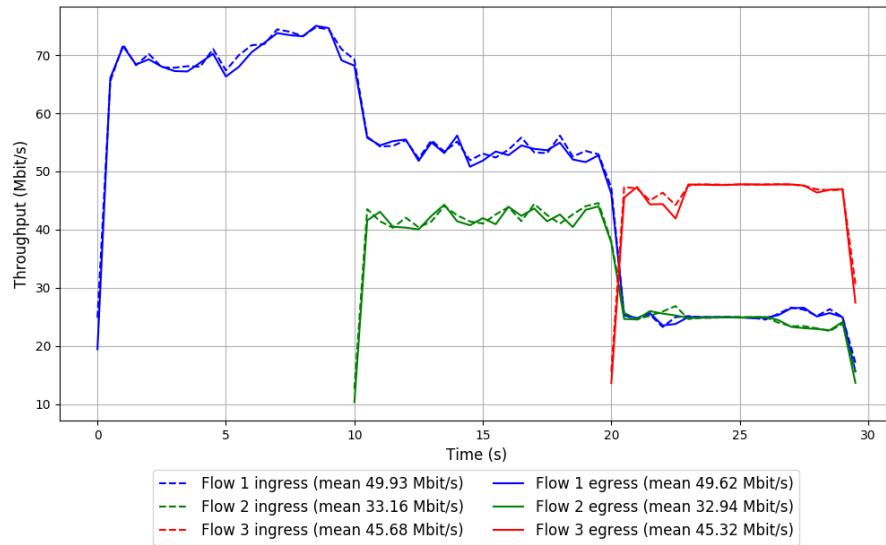


Run 4: Statistics of Indigo-calib

```
Start at: 2017-12-05 20:08:59
End at: 2017-12-05 20:09:29
Local clock offset: -0.603 ms
Remote clock offset: -1.839 ms

# Below is generated by plot.py at 2017-12-06 02:12:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.27 Mbit/s
95th percentile per-packet one-way delay: 41.948 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 49.62 Mbit/s
95th percentile per-packet one-way delay: 39.181 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 32.94 Mbit/s
95th percentile per-packet one-way delay: 56.049 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 45.32 Mbit/s
95th percentile per-packet one-way delay: 34.132 ms
Loss rate: 1.34%
```

Run 4: Report of Indigo-calib — Data Link

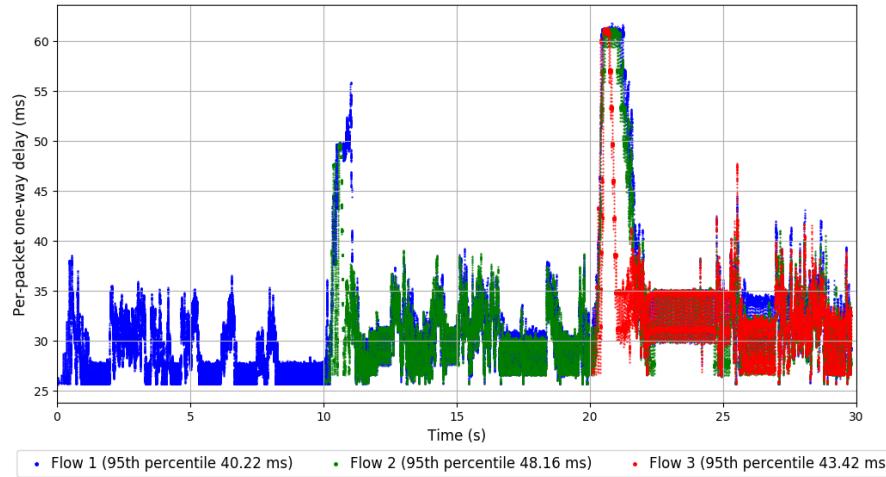
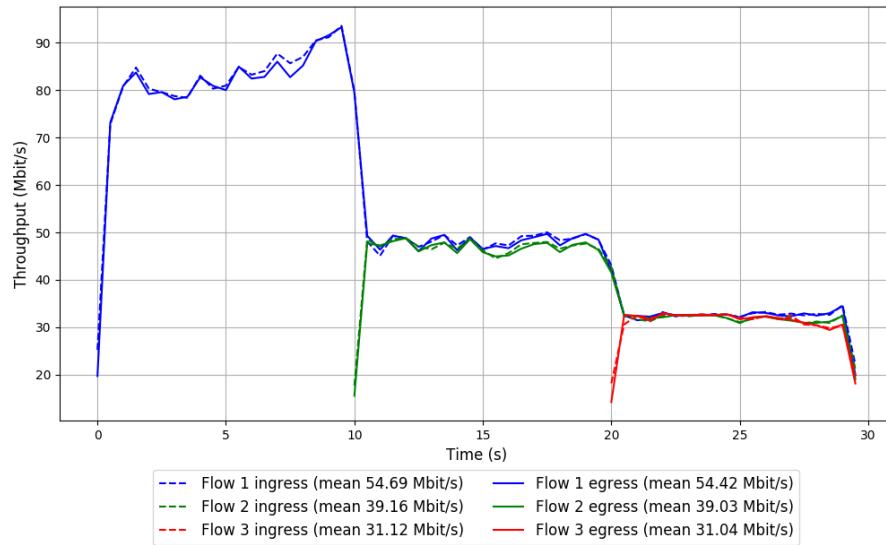


Run 5: Statistics of Indigo-calib

```
Start at: 2017-12-05 20:28:56
End at: 2017-12-05 20:29:26
Local clock offset: -0.735 ms
Remote clock offset: -4.095 ms

# Below is generated by plot.py at 2017-12-06 02:12:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.48 Mbit/s
95th percentile per-packet one-way delay: 42.711 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 54.42 Mbit/s
95th percentile per-packet one-way delay: 40.222 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 39.03 Mbit/s
95th percentile per-packet one-way delay: 48.159 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 31.04 Mbit/s
95th percentile per-packet one-way delay: 43.416 ms
Loss rate: 0.80%
```

Run 5: Report of Indigo-calib — Data Link

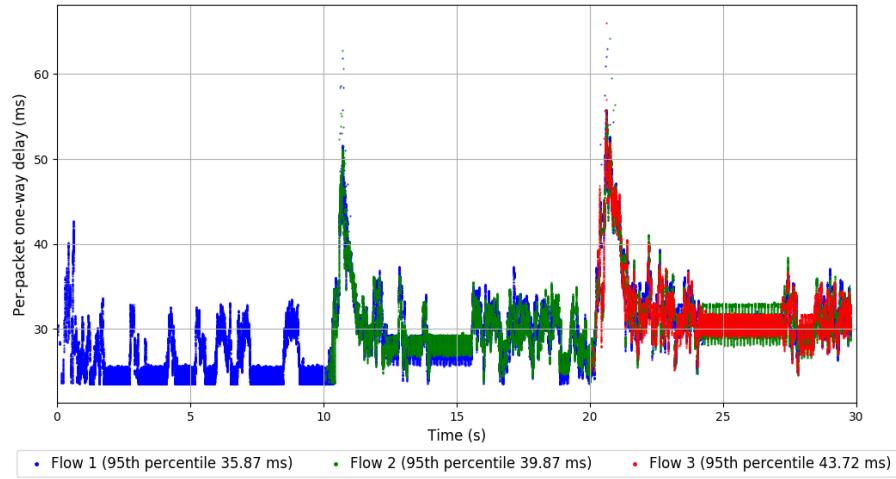
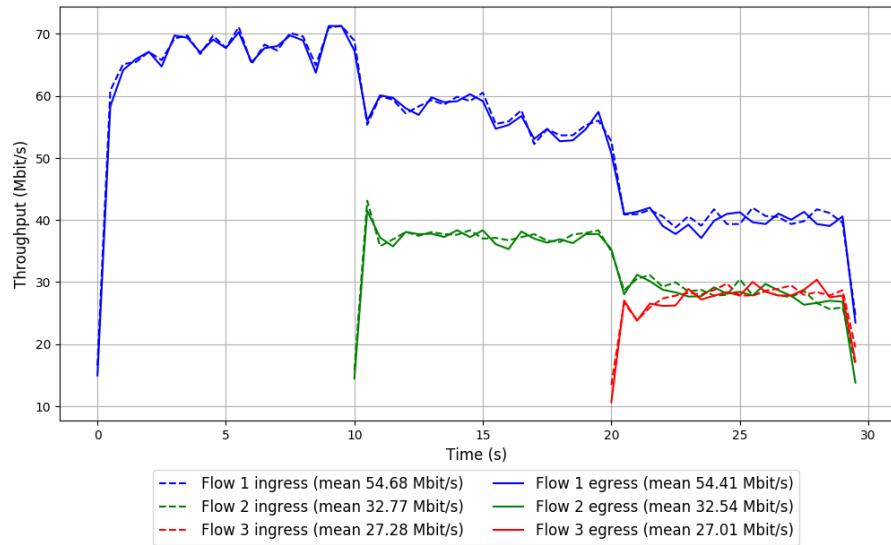


Run 6: Statistics of Indigo-calib

```
Start at: 2017-12-05 20:48:30
End at: 2017-12-05 20:49:00
Local clock offset: -0.783 ms
Remote clock offset: -2.431 ms

# Below is generated by plot.py at 2017-12-06 02:13:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.77 Mbit/s
95th percentile per-packet one-way delay: 37.711 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 54.41 Mbit/s
95th percentile per-packet one-way delay: 35.873 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 32.54 Mbit/s
95th percentile per-packet one-way delay: 39.867 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 27.01 Mbit/s
95th percentile per-packet one-way delay: 43.716 ms
Loss rate: 1.55%
```

Run 6: Report of Indigo-calib — Data Link

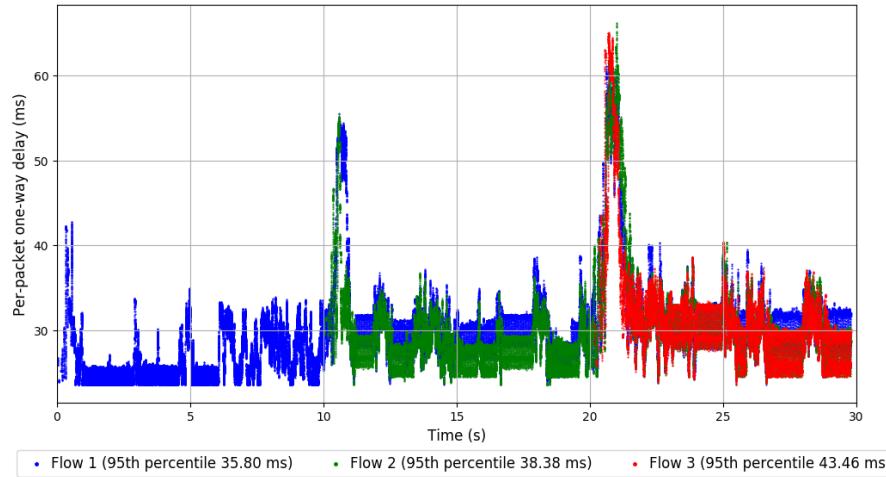
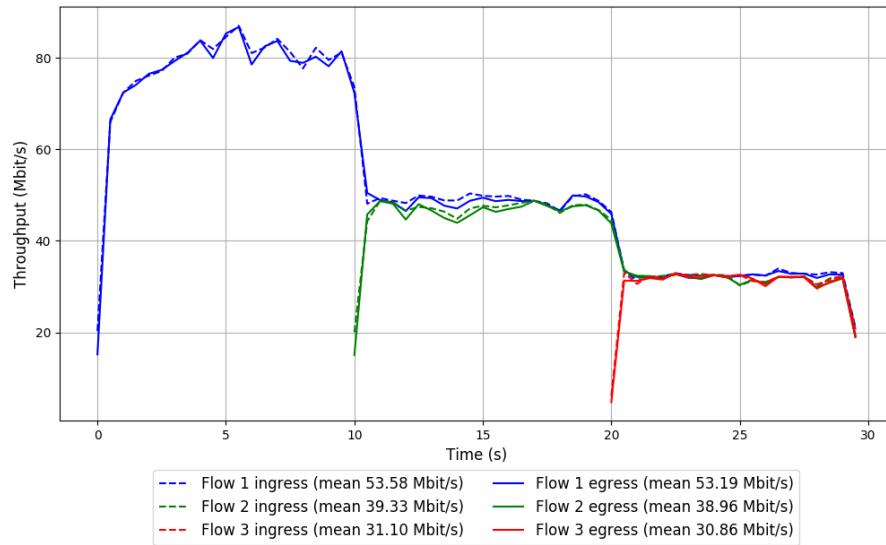


Run 7: Statistics of Indigo-calib

```
Start at: 2017-12-05 21:08:38
End at: 2017-12-05 21:09:08
Local clock offset: -0.694 ms
Remote clock offset: -2.923 ms

# Below is generated by plot.py at 2017-12-06 02:13:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.03 Mbit/s
95th percentile per-packet one-way delay: 37.111 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 53.19 Mbit/s
95th percentile per-packet one-way delay: 35.795 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 38.96 Mbit/s
95th percentile per-packet one-way delay: 38.384 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 30.86 Mbit/s
95th percentile per-packet one-way delay: 43.462 ms
Loss rate: 1.37%
```

Run 7: Report of Indigo-calib — Data Link

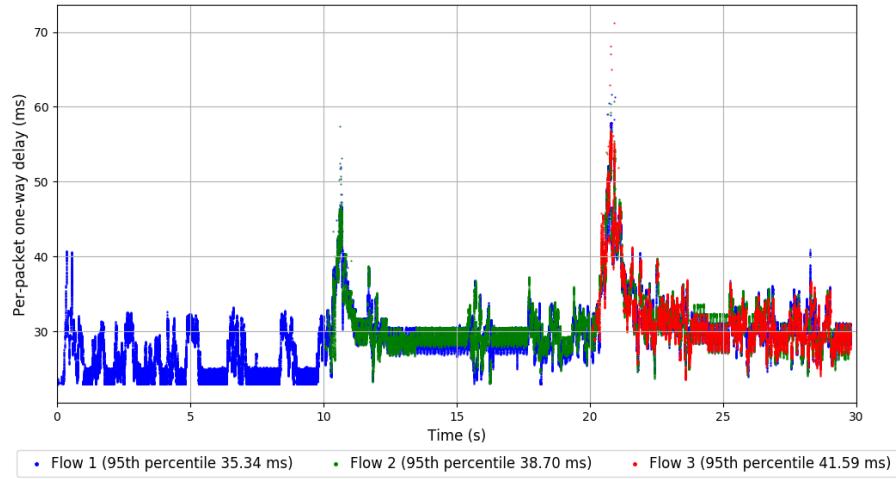
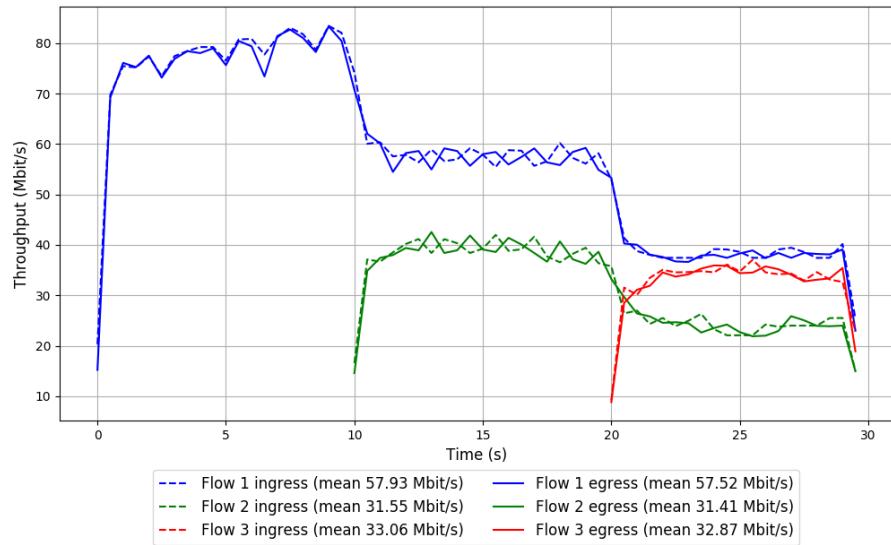


Run 8: Statistics of Indigo-calib

```
Start at: 2017-12-05 21:28:23
End at: 2017-12-05 21:28:53
Local clock offset: -0.6 ms
Remote clock offset: -3.152 ms

# Below is generated by plot.py at 2017-12-06 02:13:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.01 Mbit/s
95th percentile per-packet one-way delay: 36.961 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 57.52 Mbit/s
95th percentile per-packet one-way delay: 35.342 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 31.41 Mbit/s
95th percentile per-packet one-way delay: 38.701 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 32.87 Mbit/s
95th percentile per-packet one-way delay: 41.588 ms
Loss rate: 1.19%
```

Run 8: Report of Indigo-calib — Data Link

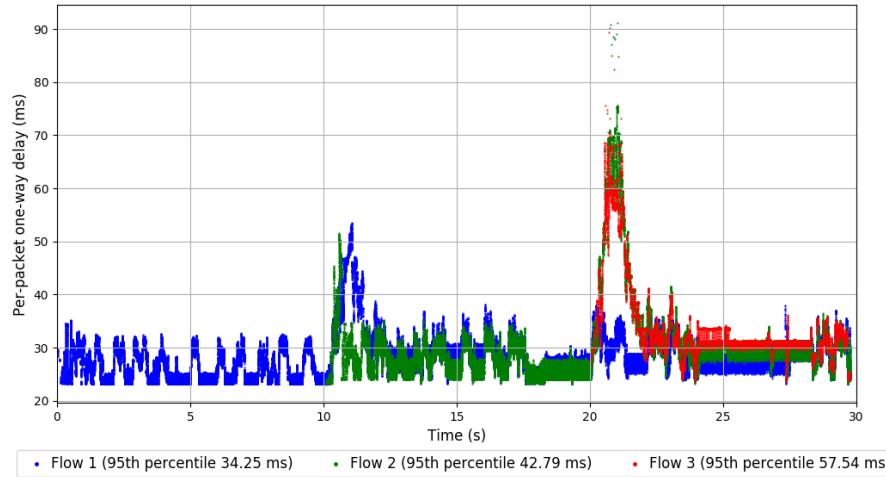
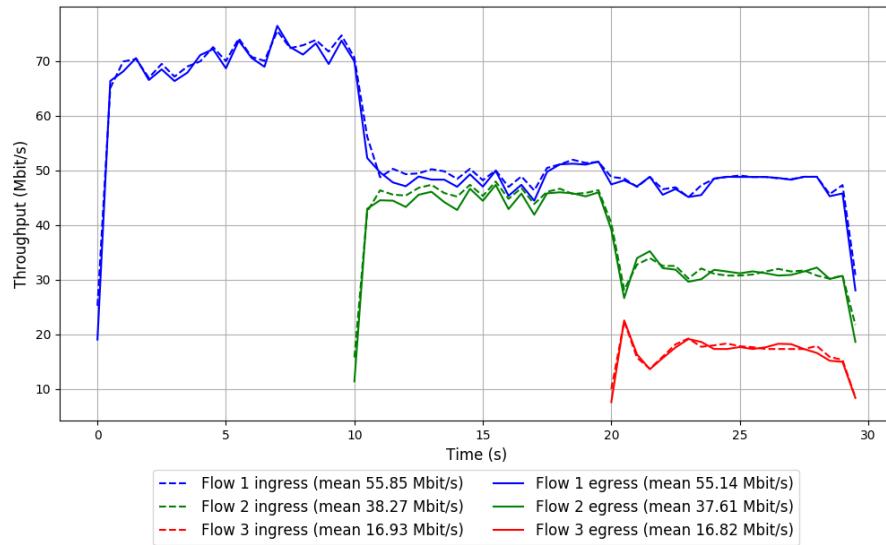


Run 9: Statistics of Indigo-calib

```
Start at: 2017-12-05 21:48:09
End at: 2017-12-05 21:48:39
Local clock offset: -0.448 ms
Remote clock offset: -3.177 ms

# Below is generated by plot.py at 2017-12-06 02:13:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.52 Mbit/s
95th percentile per-packet one-way delay: 36.794 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 55.14 Mbit/s
95th percentile per-packet one-way delay: 34.247 ms
Loss rate: 1.47%
-- Flow 2:
Average throughput: 37.61 Mbit/s
95th percentile per-packet one-way delay: 42.794 ms
Loss rate: 1.99%
-- Flow 3:
Average throughput: 16.82 Mbit/s
95th percentile per-packet one-way delay: 57.542 ms
Loss rate: 1.25%
```

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

```
Start at: 2017-12-05 22:08:05
End at: 2017-12-05 22:08:35
Local clock offset: -0.382 ms
Remote clock offset: -4.954 ms

# Below is generated by plot.py at 2017-12-06 02:13:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.42 Mbit/s
95th percentile per-packet one-way delay: 40.917 ms
Loss rate: 2.22%
-- Flow 1:
Average throughput: 54.26 Mbit/s
95th percentile per-packet one-way delay: 38.665 ms
Loss rate: 2.00%
-- Flow 2:
Average throughput: 31.21 Mbit/s
95th percentile per-packet one-way delay: 42.809 ms
Loss rate: 2.59%
-- Flow 3:
Average throughput: 32.06 Mbit/s
95th percentile per-packet one-way delay: 45.957 ms
Loss rate: 2.57%
```

Run 10: Report of Indigo-calib — Data Link

