

Pantheon Report

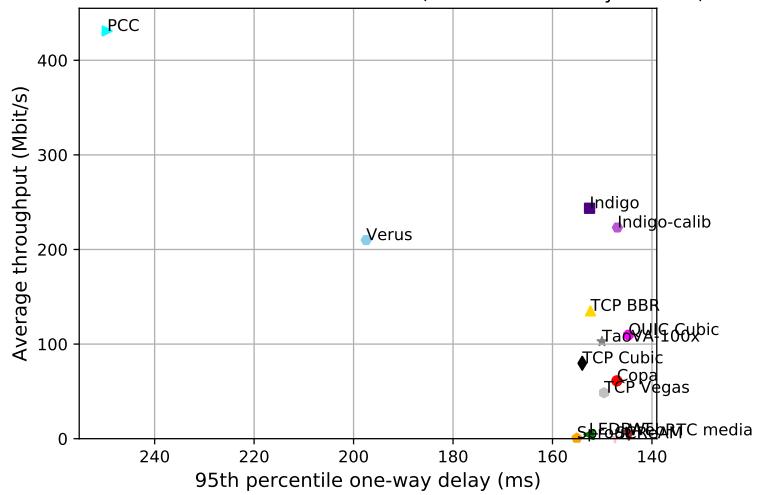
Generated at 2017-12-06 15:21:35 (UTC).
Data path: GCE London Ethernet (*remote*) → GCE Sydney Ethernet (*local*).
Repeated the test of 14 congestion control schemes 10 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

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**).

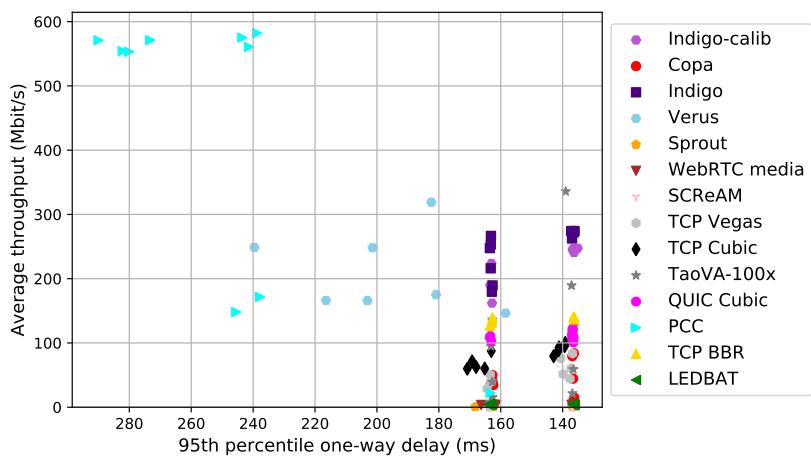
Git summary:

```
branch: indigos @ e3a57ad5ac5cfccaca0e3f983c8dd4cc3509e0262
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 @ f1a14bf7e749737437f61b1eaeeb30b267cde681
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 GCE London Ethernet to GCE Sydney Ethernet, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE London Ethernet to GCE Sydney Ethernet, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows



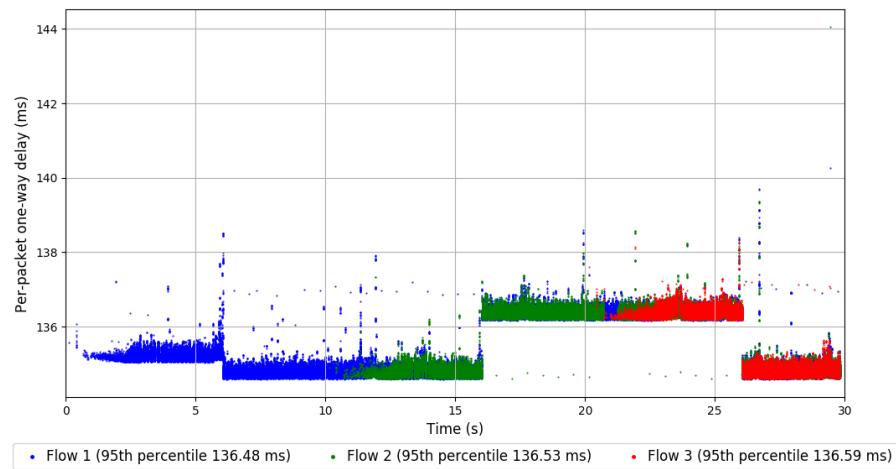
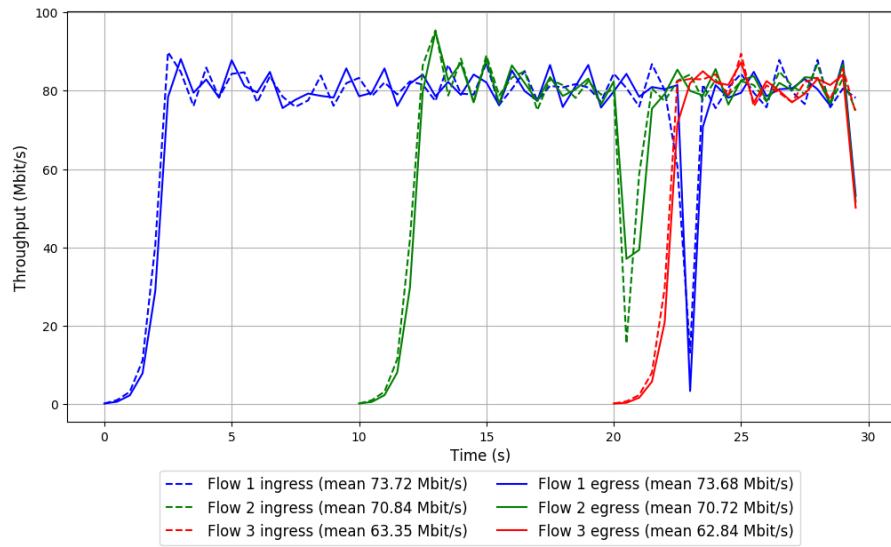
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	70.46	67.92	60.58	152.37	149.74	146.98	1.03	1.62	3.66
TCP Cubic	10	43.15	43.23	24.71	153.79	153.77	150.65	1.16	1.89	5.84
LEDBAT	10	2.59	2.17	1.02	152.74	152.55	149.70	1.90	2.94	5.96
PCC	10	346.01	78.41	102.55	240.71	221.04	226.69	3.66	2.75	4.67
QUIC Cubic	10	55.67	60.67	42.69	142.02	141.47	139.17	1.10	0.57	4.70
SCReAM	10	0.22	0.22	0.21	144.70	136.52	144.59	0.83	1.42	2.59
WebRTC media	10	2.00	1.22	0.39	139.49	139.09	149.72	1.10	1.79	5.58
Sprout	6	0.34	0.34	0.39	154.72	155.21	149.41	0.83	0.70	2.49
TaoVA-100x	10	53.40	59.42	53.20	147.39	149.93	148.42	0.89	1.80	2.84
TCP Vegas	9	27.07	24.65	20.27	627.90	149.11	149.99	0.77	1.61	3.14
Verus	7	138.89	84.97	50.28	189.11	183.64	270.13	1.15	2.06	2.98
Copa	10	33.76	33.17	22.98	149.54	144.49	146.94	0.45	0.81	7.34
Indigo	10	127.86	123.84	105.53	149.88	152.64	153.31	0.84	1.42	3.69
Indigo-calib	10	117.59	111.64	99.32	146.87	147.02	147.10	0.97	1.48	3.96

```
Run 1: Statistics of TCP BBR

Start at: 2017-12-06 10:13:05
End at: 2017-12-06 10:13:35

# Below is generated by plot.py at 2017-12-06 14:45:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 140.96 Mbit/s
95th percentile per-packet one-way delay: 136.515 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 73.68 Mbit/s
95th percentile per-packet one-way delay: 136.479 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 70.72 Mbit/s
95th percentile per-packet one-way delay: 136.527 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 62.84 Mbit/s
95th percentile per-packet one-way delay: 136.587 ms
Loss rate: 3.66%
```

Run 1: Report of TCP BBR — Data Link



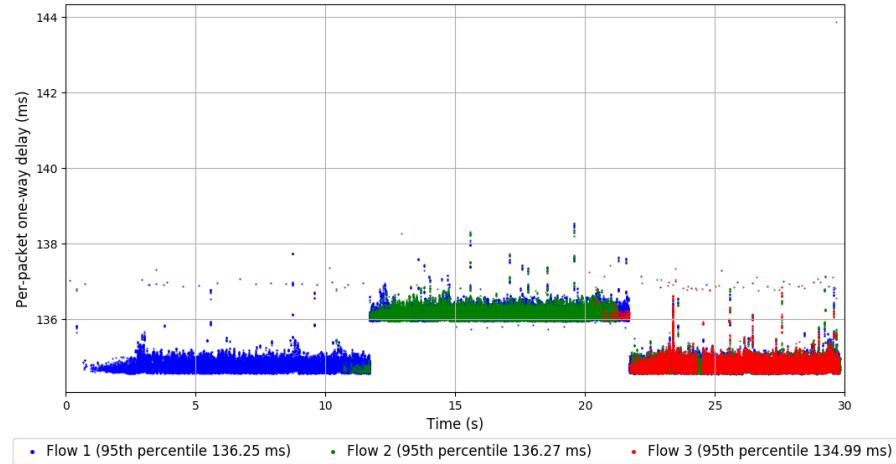
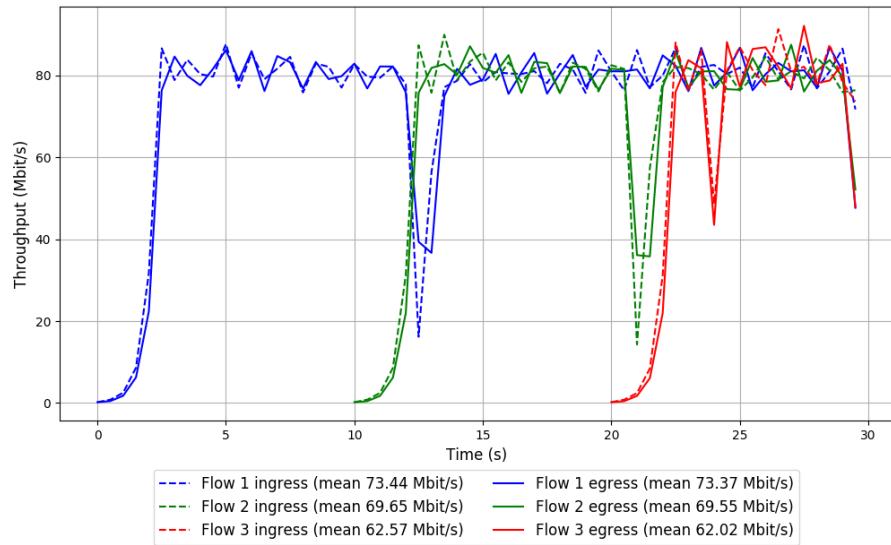
Run 2: Statistics of TCP BBR

Start at: 2017-12-06 10:26:49

End at: 2017-12-06 10:27:19

```
# Below is generated by plot.py at 2017-12-06 14:45:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 139.51 Mbit/s
95th percentile per-packet one-way delay: 136.242 ms
Loss rate: 1.64%
-- Flow 1:
Average throughput: 73.37 Mbit/s
95th percentile per-packet one-way delay: 136.247 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 69.55 Mbit/s
95th percentile per-packet one-way delay: 136.269 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 62.02 Mbit/s
95th percentile per-packet one-way delay: 134.991 ms
Loss rate: 3.86%
```

Run 2: Report of TCP BBR — Data Link



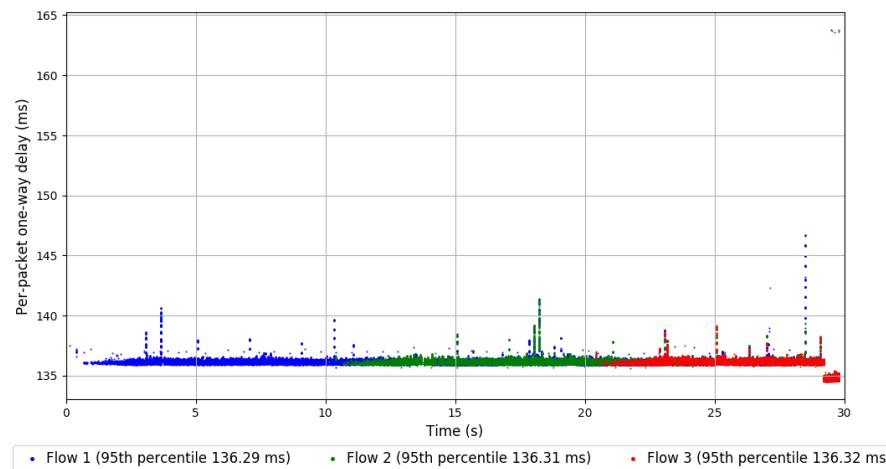
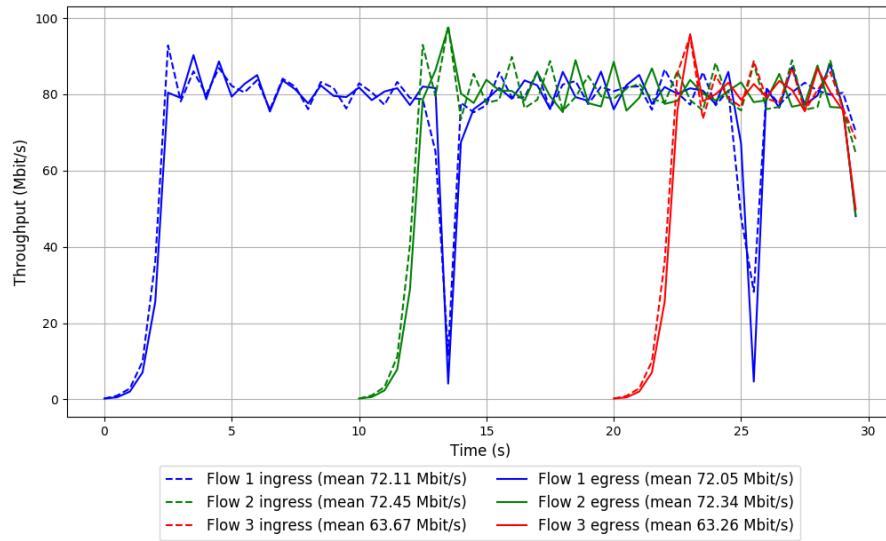
Run 3: Statistics of TCP BBR

Start at: 2017-12-06 10:40:31

End at: 2017-12-06 10:41:01

```
# Below is generated by plot.py at 2017-12-06 14:45:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 140.59 Mbit/s
95th percentile per-packet one-way delay: 136.304 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 72.05 Mbit/s
95th percentile per-packet one-way delay: 136.294 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 72.34 Mbit/s
95th percentile per-packet one-way delay: 136.311 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 63.26 Mbit/s
95th percentile per-packet one-way delay: 136.322 ms
Loss rate: 3.39%
```

Run 3: Report of TCP BBR — Data Link



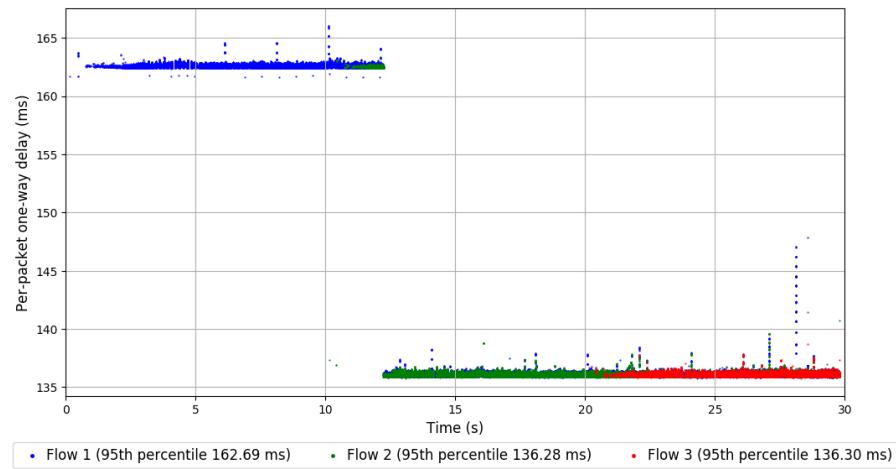
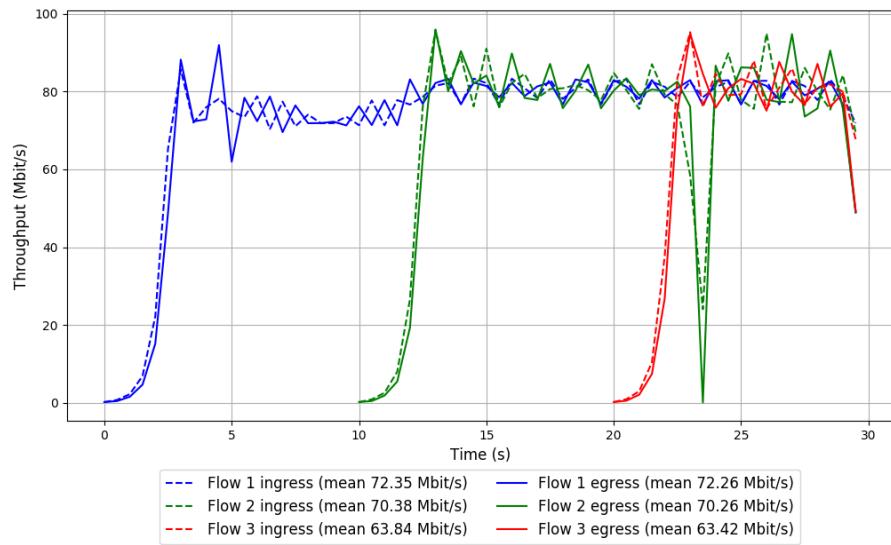
Run 4: Statistics of TCP BBR

Start at: 2017-12-06 10:54:18

End at: 2017-12-06 10:54:48

```
# Below is generated by plot.py at 2017-12-06 14:45:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 139.49 Mbit/s
95th percentile per-packet one-way delay: 162.621 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 72.26 Mbit/s
95th percentile per-packet one-way delay: 162.686 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 70.26 Mbit/s
95th percentile per-packet one-way delay: 136.283 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 63.42 Mbit/s
95th percentile per-packet one-way delay: 136.296 ms
Loss rate: 3.39%
```

Run 4: Report of TCP BBR — Data Link



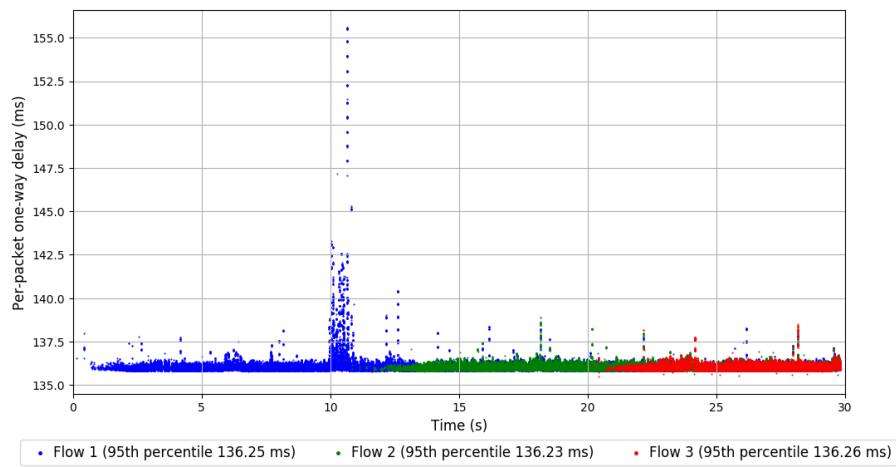
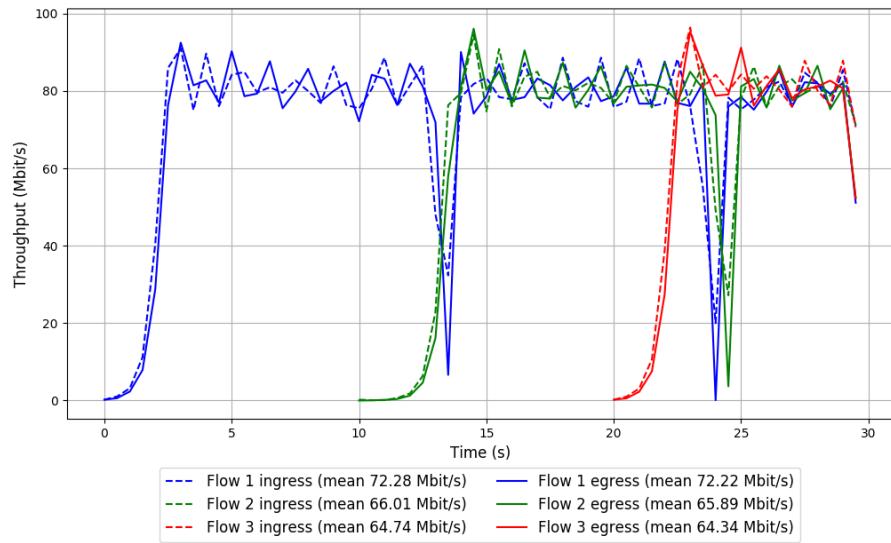
Run 5: Statistics of TCP BBR

Start at: 2017-12-06 11:08:12

End at: 2017-12-06 11:08:42

```
# Below is generated by plot.py at 2017-12-06 14:45:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 136.56 Mbit/s
95th percentile per-packet one-way delay: 136.246 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 72.22 Mbit/s
95th percentile per-packet one-way delay: 136.249 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 65.89 Mbit/s
95th percentile per-packet one-way delay: 136.233 ms
Loss rate: 1.64%
-- Flow 3:
Average throughput: 64.34 Mbit/s
95th percentile per-packet one-way delay: 136.262 ms
Loss rate: 3.36%
```

Run 5: Report of TCP BBR — Data Link



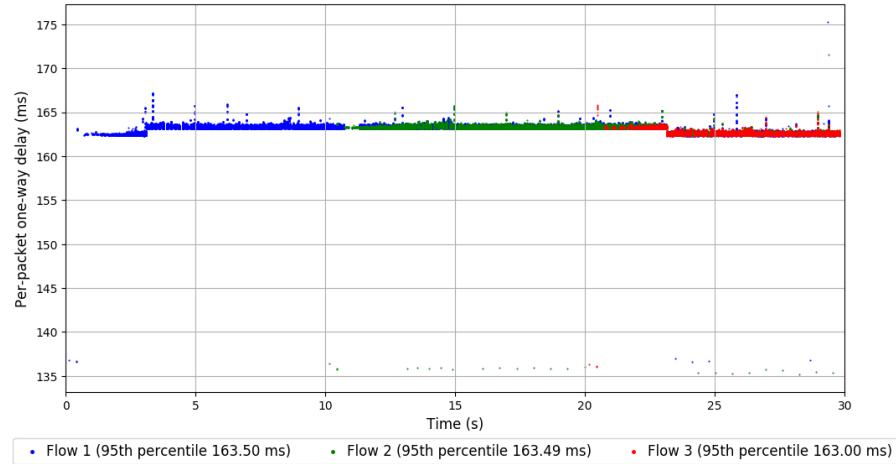
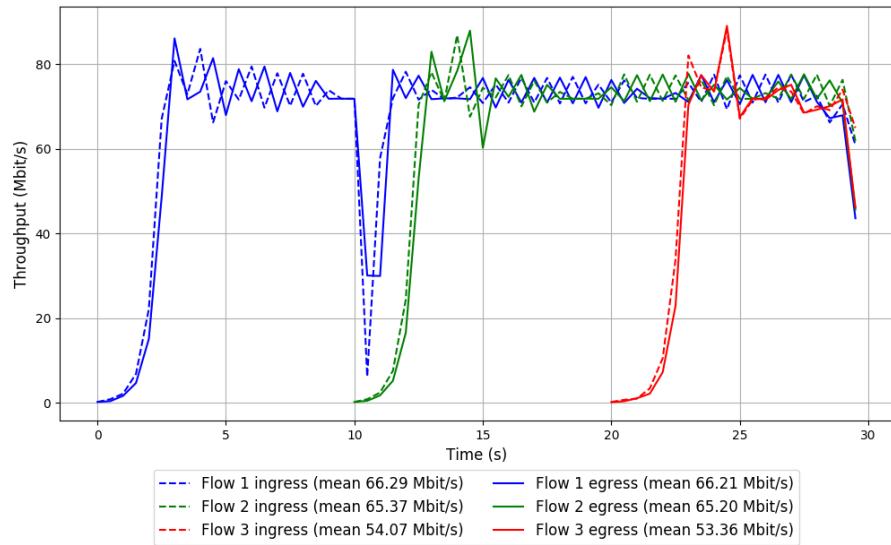
Run 6: Statistics of TCP BBR

Start at: 2017-12-06 11:21:38

End at: 2017-12-06 11:22:08

```
# Below is generated by plot.py at 2017-12-06 14:45:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 126.75 Mbit/s
95th percentile per-packet one-way delay: 163.482 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 66.21 Mbit/s
95th percentile per-packet one-way delay: 163.498 ms
Loss rate: 1.04%
-- Flow 2:
Average throughput: 65.20 Mbit/s
95th percentile per-packet one-way delay: 163.492 ms
Loss rate: 1.63%
-- Flow 3:
Average throughput: 53.36 Mbit/s
95th percentile per-packet one-way delay: 162.998 ms
Loss rate: 4.02%
```

Run 6: Report of TCP BBR — Data Link



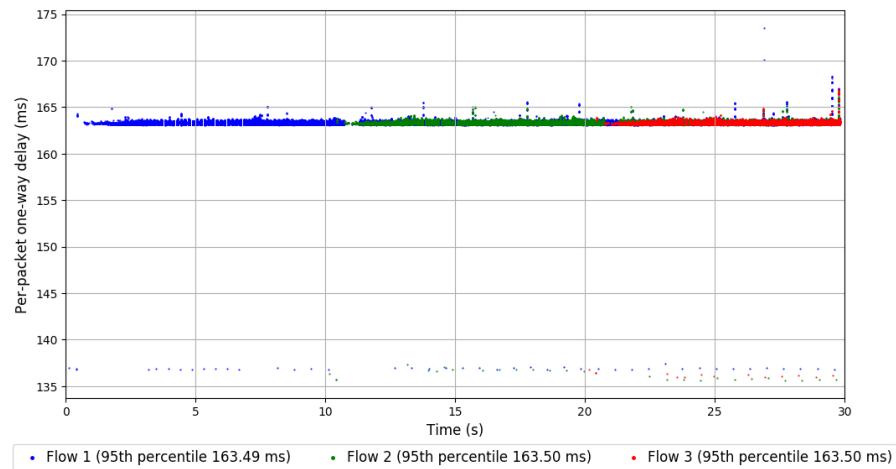
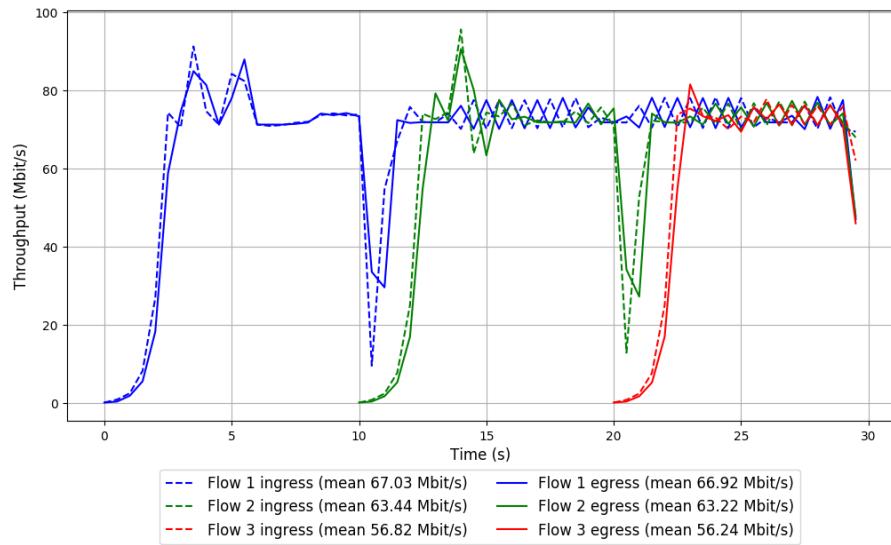
Run 7: Statistics of TCP BBR

Start at: 2017-12-06 11:34:59

End at: 2017-12-06 11:35:29

```
# Below is generated by plot.py at 2017-12-06 14:45:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 127.10 Mbit/s
95th percentile per-packet one-way delay: 163.490 ms
Loss rate: 1.69%
-- Flow 1:
Average throughput: 66.92 Mbit/s
95th percentile per-packet one-way delay: 163.485 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 63.22 Mbit/s
95th percentile per-packet one-way delay: 163.495 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 56.24 Mbit/s
95th percentile per-packet one-way delay: 163.497 ms
Loss rate: 3.74%
```

Run 7: Report of TCP BBR — Data Link



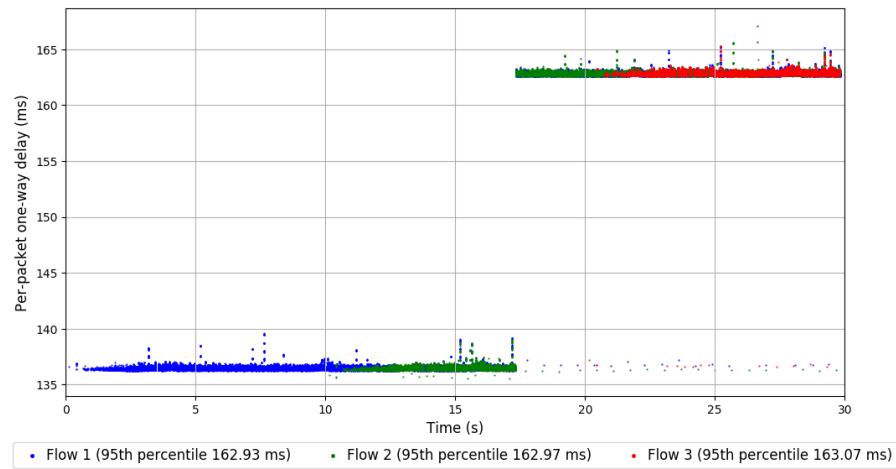
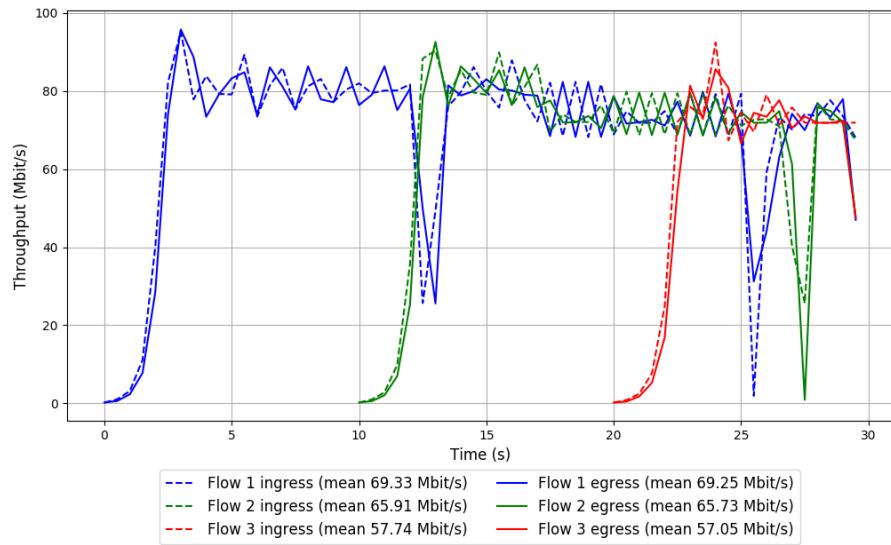
Run 8: Statistics of TCP BBR

Start at: 2017-12-06 11:48:33

End at: 2017-12-06 11:49:03

```
# Below is generated by plot.py at 2017-12-06 14:45:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 131.32 Mbit/s
95th percentile per-packet one-way delay: 162.971 ms
Loss rate: 1.69%
-- Flow 1:
Average throughput: 69.25 Mbit/s
95th percentile per-packet one-way delay: 162.928 ms
Loss rate: 1.04%
-- Flow 2:
Average throughput: 65.73 Mbit/s
95th percentile per-packet one-way delay: 162.966 ms
Loss rate: 1.65%
-- Flow 3:
Average throughput: 57.05 Mbit/s
95th percentile per-packet one-way delay: 163.066 ms
Loss rate: 4.18%
```

Run 8: Report of TCP BBR — Data Link



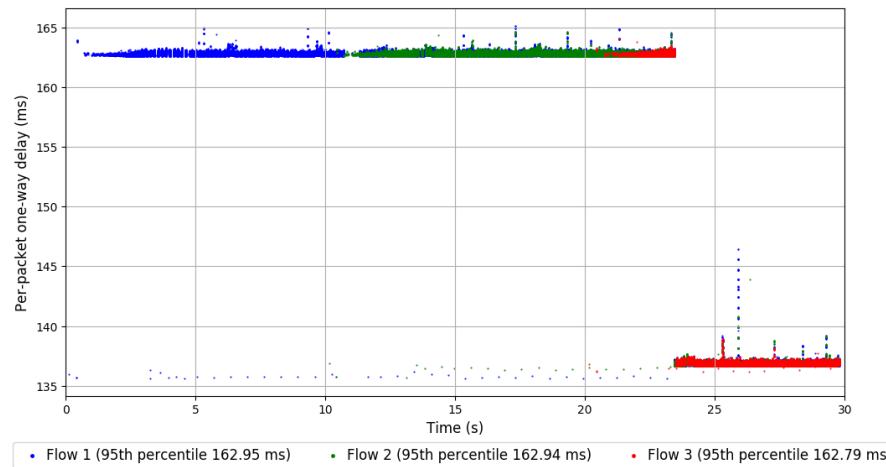
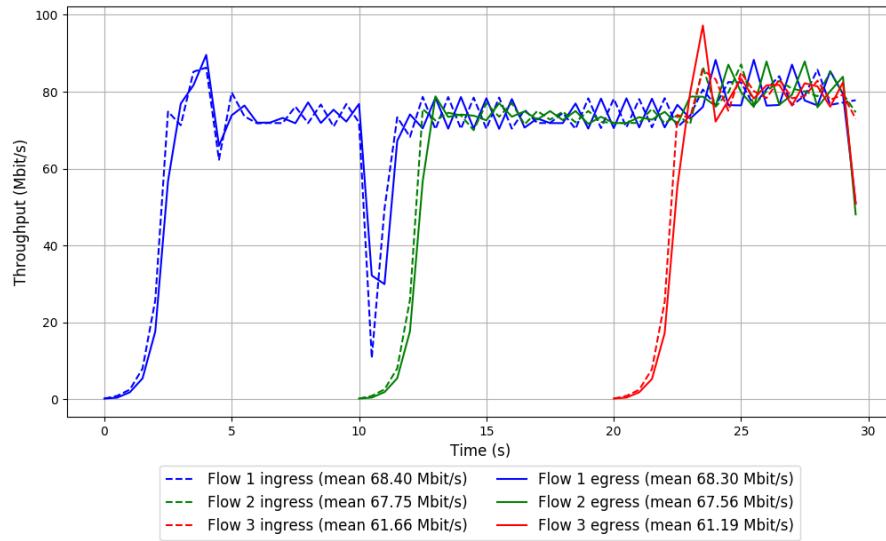
Run 9: Statistics of TCP BBR

Start at: 2017-12-06 12:01:47

End at: 2017-12-06 12:02:17

```
# Below is generated by plot.py at 2017-12-06 14:48:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 132.91 Mbit/s
95th percentile per-packet one-way delay: 162.931 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 68.30 Mbit/s
95th percentile per-packet one-way delay: 162.946 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 67.56 Mbit/s
95th percentile per-packet one-way delay: 162.935 ms
Loss rate: 1.77%
-- Flow 3:
Average throughput: 61.19 Mbit/s
95th percentile per-packet one-way delay: 162.793 ms
Loss rate: 3.50%
```

Run 9: Report of TCP BBR — Data Link



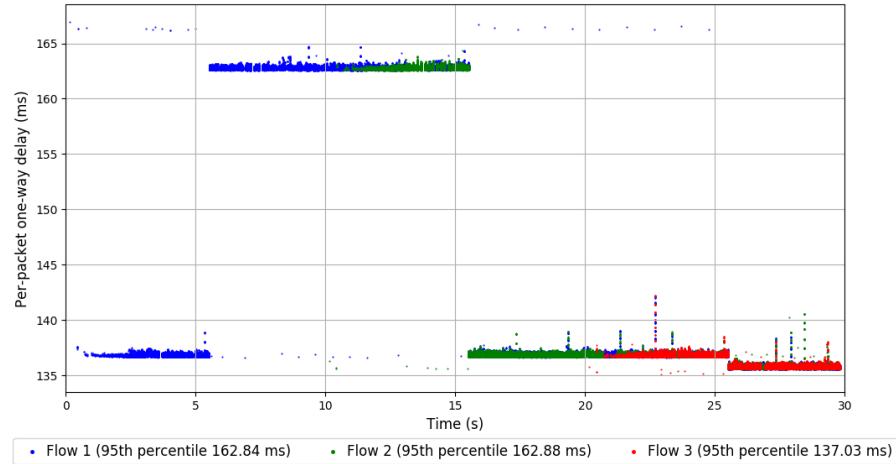
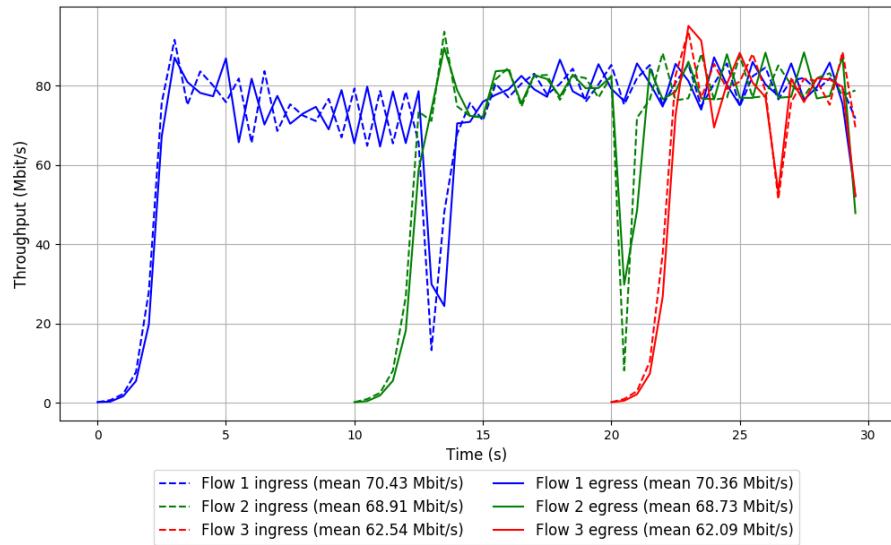
Run 10: Statistics of TCP BBR

Start at: 2017-12-06 12:15:15

End at: 2017-12-06 12:15:45

```
# Below is generated by plot.py at 2017-12-06 14:48:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 136.12 Mbit/s
95th percentile per-packet one-way delay: 162.836 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 70.36 Mbit/s
95th percentile per-packet one-way delay: 162.844 ms
Loss rate: 1.01%
-- Flow 2:
Average throughput: 68.73 Mbit/s
95th percentile per-packet one-way delay: 162.877 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 62.09 Mbit/s
95th percentile per-packet one-way delay: 137.035 ms
Loss rate: 3.45%
```

Run 10: Report of TCP BBR — Data Link

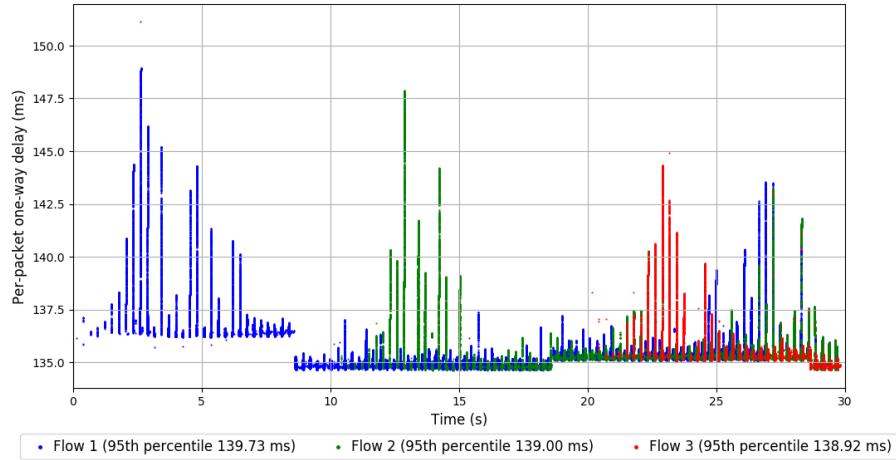
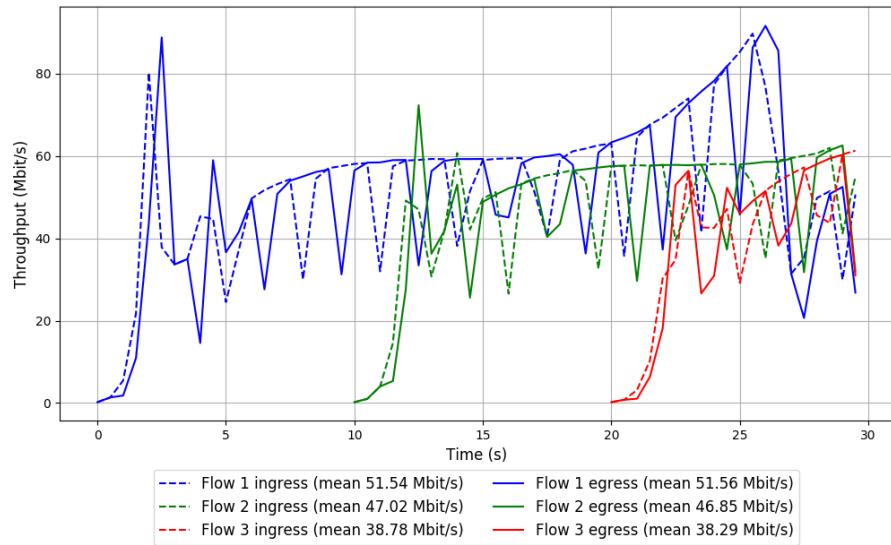


```
Run 1: Statistics of TCP Cubic

Start at: 2017-12-06 10:02:52
End at: 2017-12-06 10:03:22

# Below is generated by plot.py at 2017-12-06 14:48:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.03 Mbit/s
95th percentile per-packet one-way delay: 139.346 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 51.56 Mbit/s
95th percentile per-packet one-way delay: 139.731 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 46.85 Mbit/s
95th percentile per-packet one-way delay: 138.996 ms
Loss rate: 1.71%
-- Flow 3:
Average throughput: 38.29 Mbit/s
95th percentile per-packet one-way delay: 138.918 ms
Loss rate: 4.00%
```

Run 1: Report of TCP Cubic — Data Link



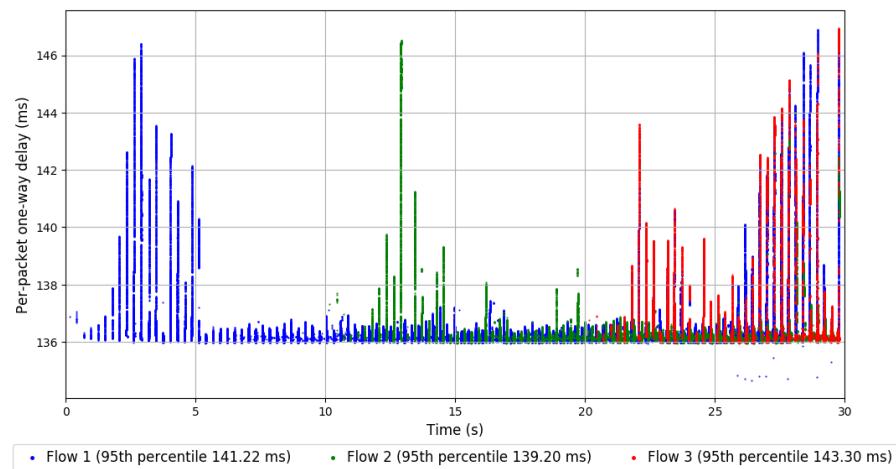
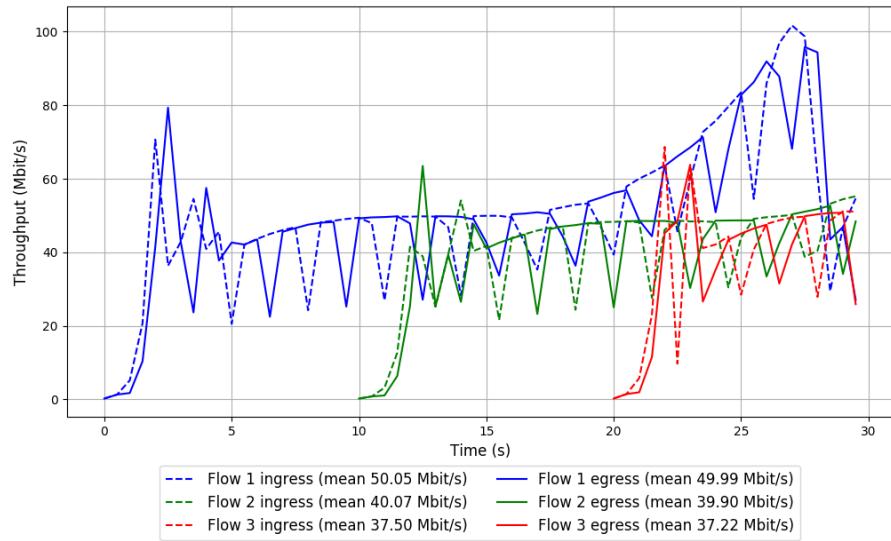
Run 2: Statistics of TCP Cubic

Start at: 2017-12-06 10:16:39

End at: 2017-12-06 10:17:09

```
# Below is generated by plot.py at 2017-12-06 14:48:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.52 Mbit/s
95th percentile per-packet one-way delay: 141.349 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 49.99 Mbit/s
95th percentile per-packet one-way delay: 141.221 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 39.90 Mbit/s
95th percentile per-packet one-way delay: 139.196 ms
Loss rate: 1.78%
-- Flow 3:
Average throughput: 37.22 Mbit/s
95th percentile per-packet one-way delay: 143.303 ms
Loss rate: 3.46%
```

Run 2: Report of TCP Cubic — Data Link



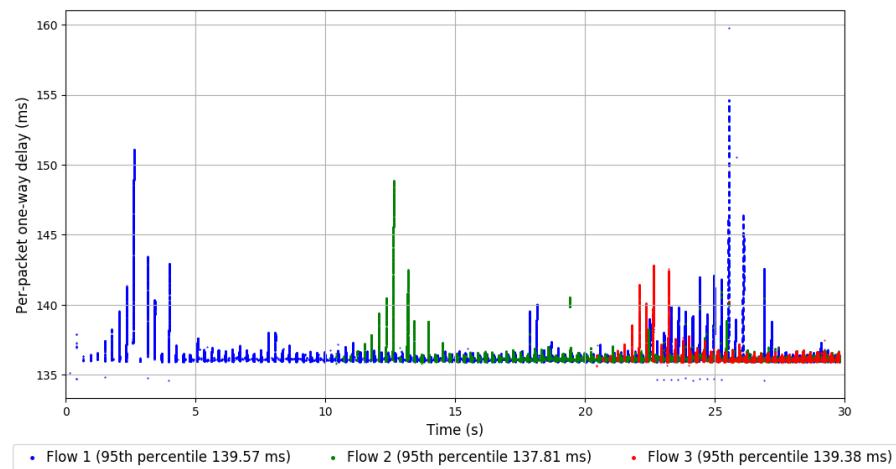
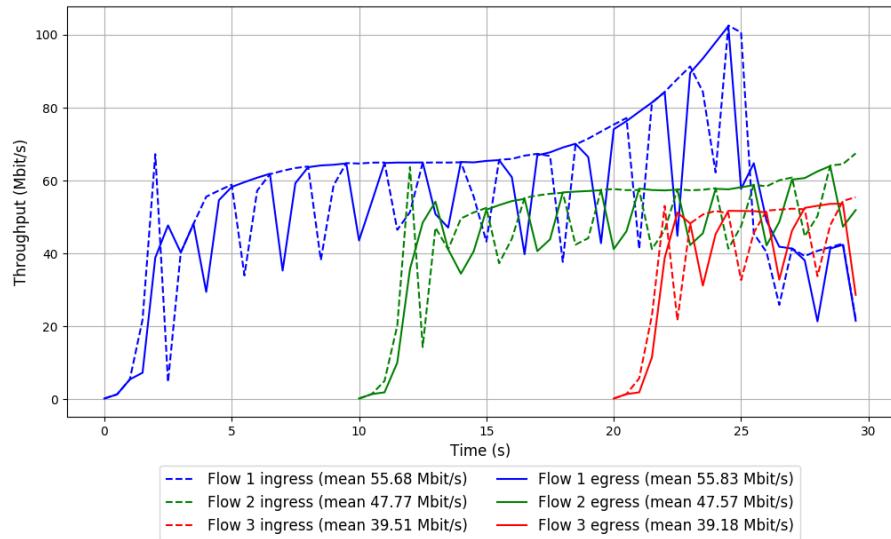
```
Run 3: Statistics of TCP Cubic
```

```
Start at: 2017-12-06 10:30:23
```

```
End at: 2017-12-06 10:30:53
```

```
# Below is generated by plot.py at 2017-12-06 14:48:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 100.01 Mbit/s
95th percentile per-packet one-way delay: 139.157 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 55.83 Mbit/s
95th percentile per-packet one-way delay: 139.573 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 47.57 Mbit/s
95th percentile per-packet one-way delay: 137.810 ms
Loss rate: 1.79%
-- Flow 3:
Average throughput: 39.18 Mbit/s
95th percentile per-packet one-way delay: 139.384 ms
Loss rate: 3.57%
```

Run 3: Report of TCP Cubic — Data Link



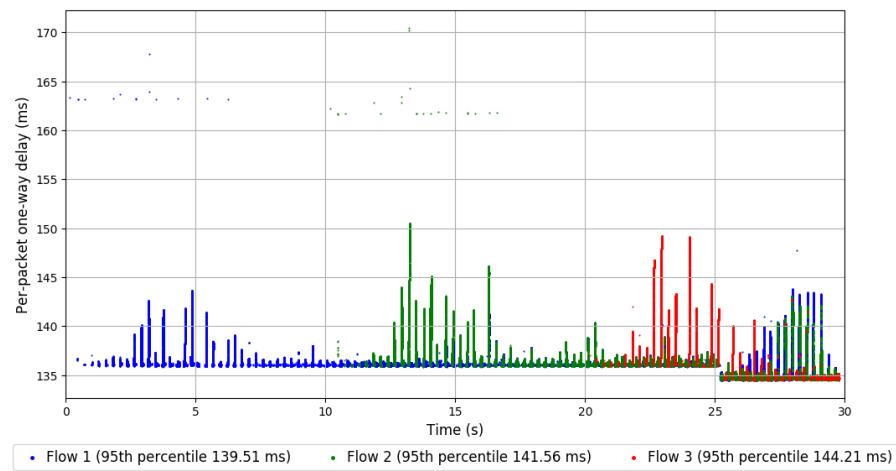
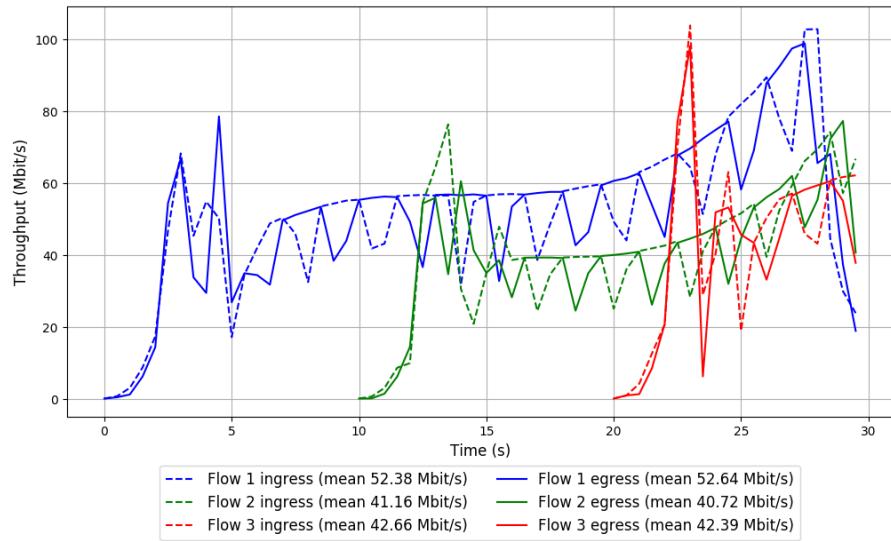
Run 4: Statistics of TCP Cubic

Start at: 2017-12-06 10:44:05

End at: 2017-12-06 10:44:35

```
# Below is generated by plot.py at 2017-12-06 14:48:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.04 Mbit/s
95th percentile per-packet one-way delay: 141.191 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 52.64 Mbit/s
95th percentile per-packet one-way delay: 139.507 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 40.72 Mbit/s
95th percentile per-packet one-way delay: 141.563 ms
Loss rate: 2.56%
-- Flow 3:
Average throughput: 42.39 Mbit/s
95th percentile per-packet one-way delay: 144.212 ms
Loss rate: 3.72%
```

Run 4: Report of TCP Cubic — Data Link



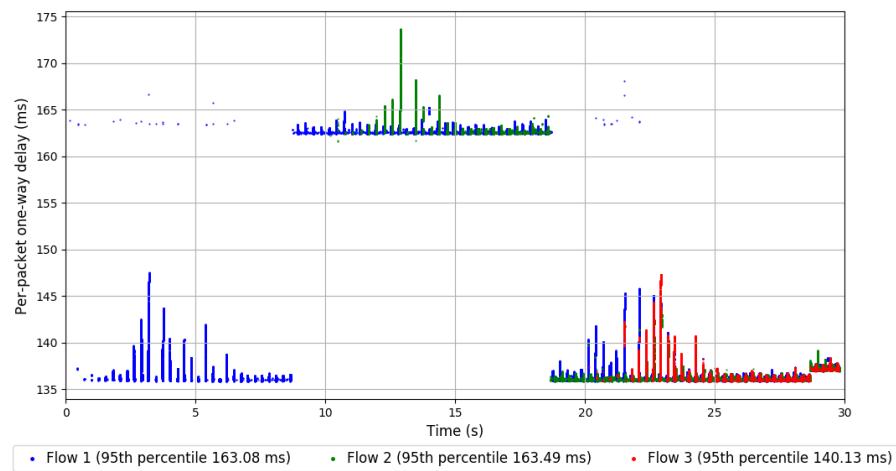
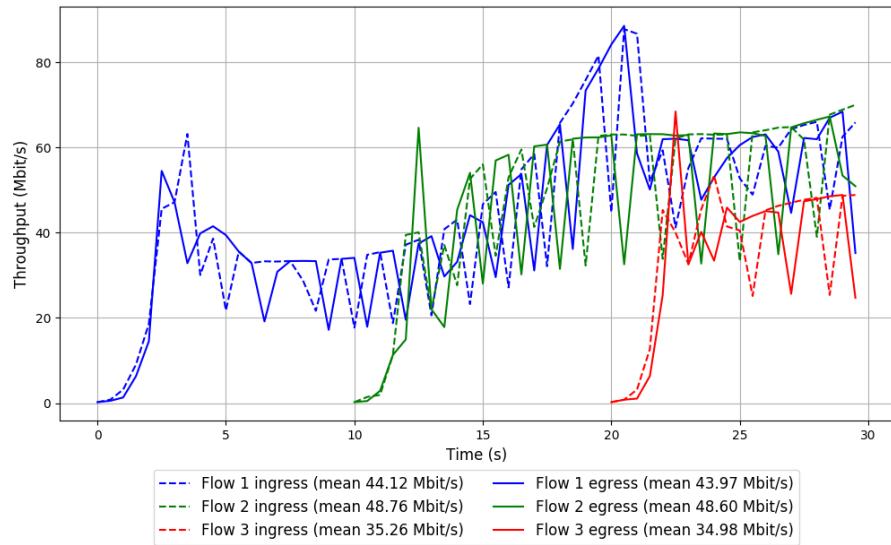
```
Run 5: Statistics of TCP Cubic
```

```
Start at: 2017-12-06 10:57:52
```

```
End at: 2017-12-06 10:58:22
```

```
# Below is generated by plot.py at 2017-12-06 14:48:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.49 Mbit/s
95th percentile per-packet one-way delay: 163.050 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 43.97 Mbit/s
95th percentile per-packet one-way delay: 163.077 ms
Loss rate: 1.35%
-- Flow 2:
Average throughput: 48.60 Mbit/s
95th percentile per-packet one-way delay: 163.492 ms
Loss rate: 1.83%
-- Flow 3:
Average throughput: 34.98 Mbit/s
95th percentile per-packet one-way delay: 140.132 ms
Loss rate: 3.53%
```

Run 5: Report of TCP Cubic — Data Link



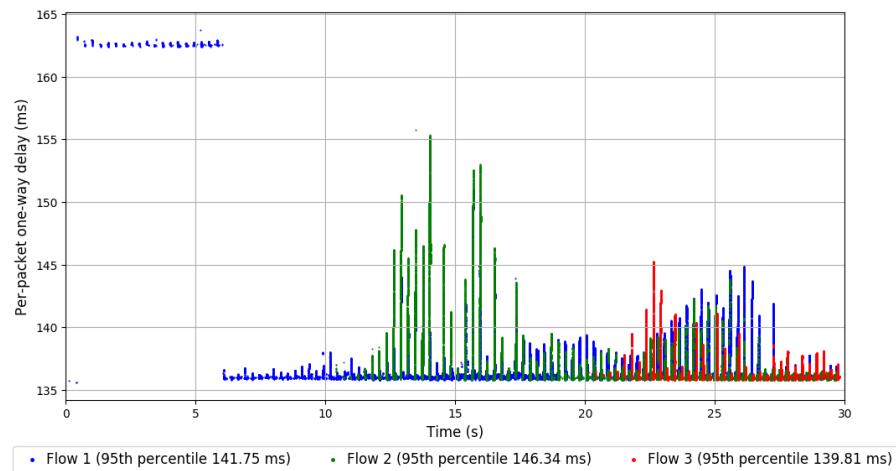
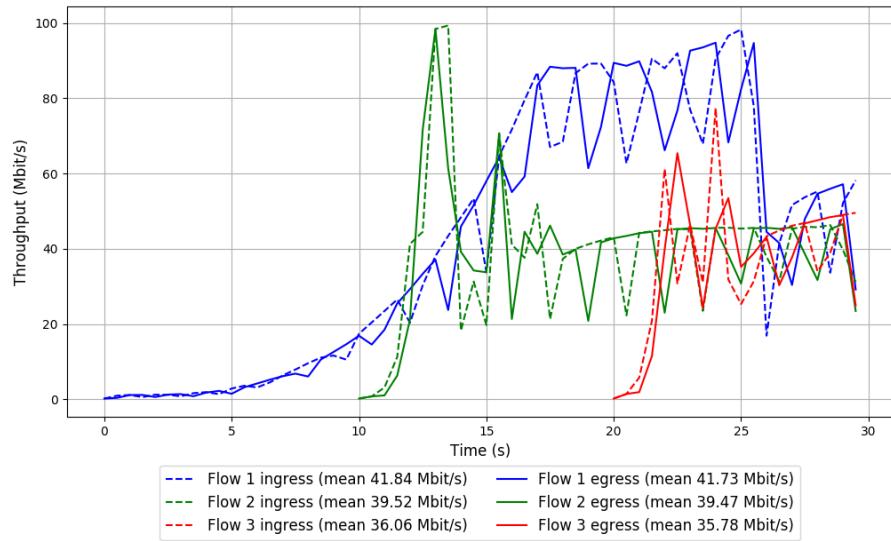
Run 6: Statistics of TCP Cubic

Start at: 2017-12-06 11:11:45

End at: 2017-12-06 11:12:15

```
# Below is generated by plot.py at 2017-12-06 14:48:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.43 Mbit/s
95th percentile per-packet one-way delay: 142.911 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 41.73 Mbit/s
95th percentile per-packet one-way delay: 141.753 ms
Loss rate: 1.18%
-- Flow 2:
Average throughput: 39.47 Mbit/s
95th percentile per-packet one-way delay: 146.343 ms
Loss rate: 1.50%
-- Flow 3:
Average throughput: 35.78 Mbit/s
95th percentile per-packet one-way delay: 139.813 ms
Loss rate: 3.47%
```

Run 6: Report of TCP Cubic — Data Link



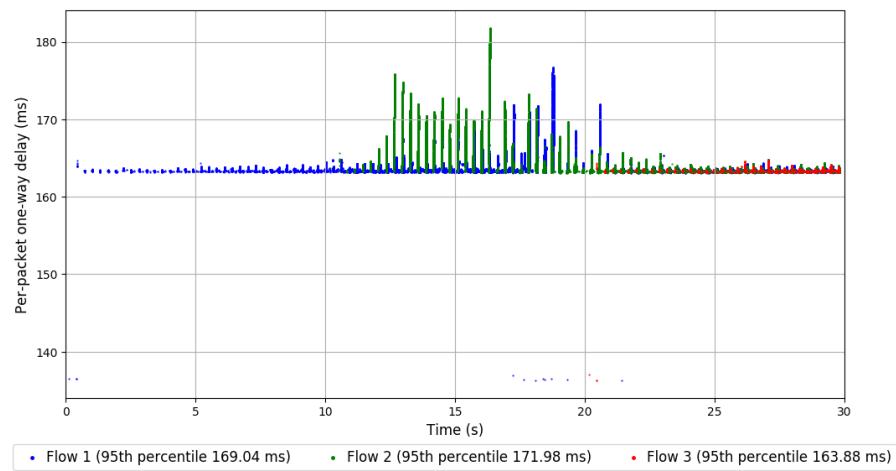
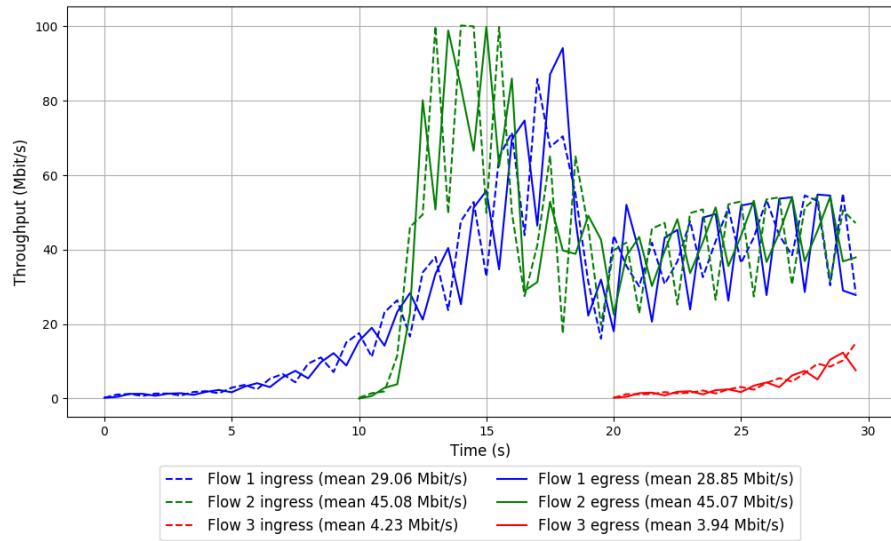
Run 7: Statistics of TCP Cubic

Start at: 2017-12-06 11:25:11

End at: 2017-12-06 11:25:41

```
# Below is generated by plot.py at 2017-12-06 14:48:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.94 Mbit/s
95th percentile per-packet one-way delay: 170.798 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 28.85 Mbit/s
95th percentile per-packet one-way delay: 169.036 ms
Loss rate: 1.60%
-- Flow 2:
Average throughput: 45.07 Mbit/s
95th percentile per-packet one-way delay: 171.984 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 3.94 Mbit/s
95th percentile per-packet one-way delay: 163.880 ms
Loss rate: 9.60%
```

Run 7: Report of TCP Cubic — Data Link



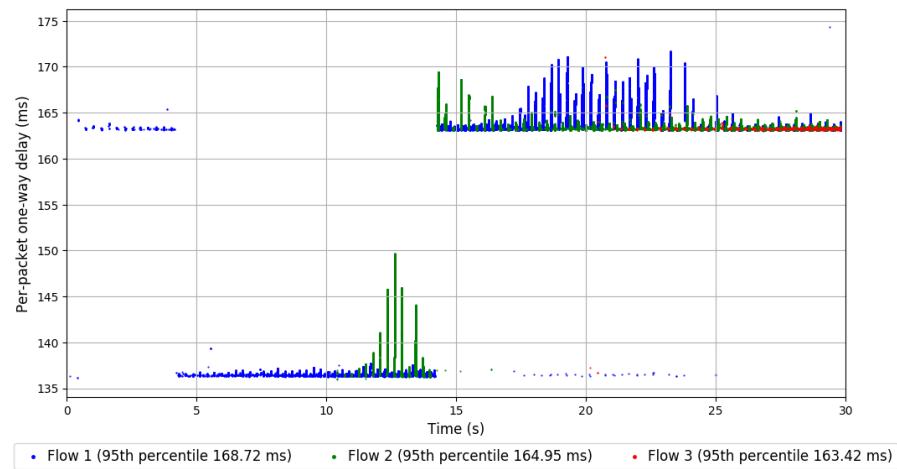
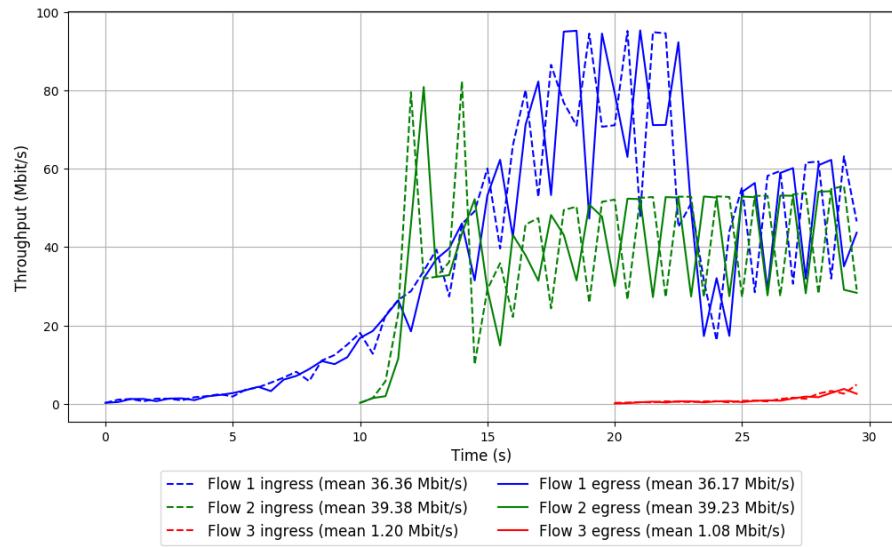
Run 8: Statistics of TCP Cubic

Start at: 2017-12-06 11:38:36

End at: 2017-12-06 11:39:06

```
# Below is generated by plot.py at 2017-12-06 14:48:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.50 Mbit/s
95th percentile per-packet one-way delay: 167.958 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 36.17 Mbit/s
95th percentile per-packet one-way delay: 168.715 ms
Loss rate: 1.44%
-- Flow 2:
Average throughput: 39.23 Mbit/s
95th percentile per-packet one-way delay: 164.946 ms
Loss rate: 1.81%
-- Flow 3:
Average throughput: 1.08 Mbit/s
95th percentile per-packet one-way delay: 163.418 ms
Loss rate: 12.28%
```

Run 8: Report of TCP Cubic — Data Link



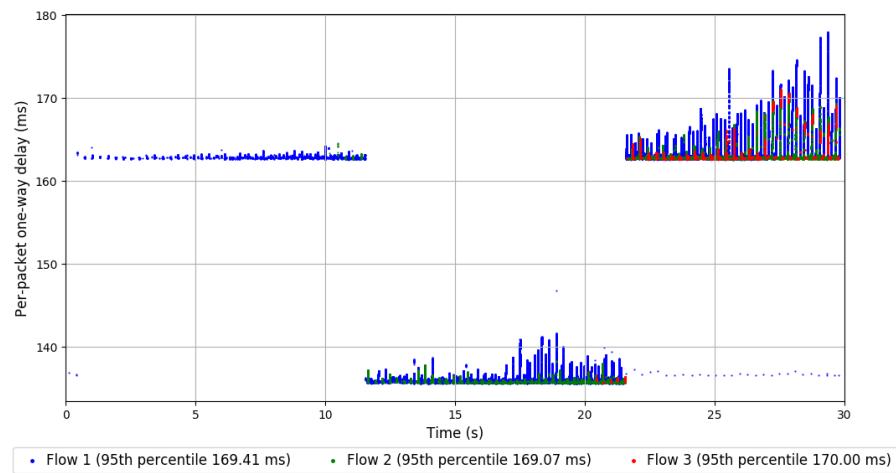
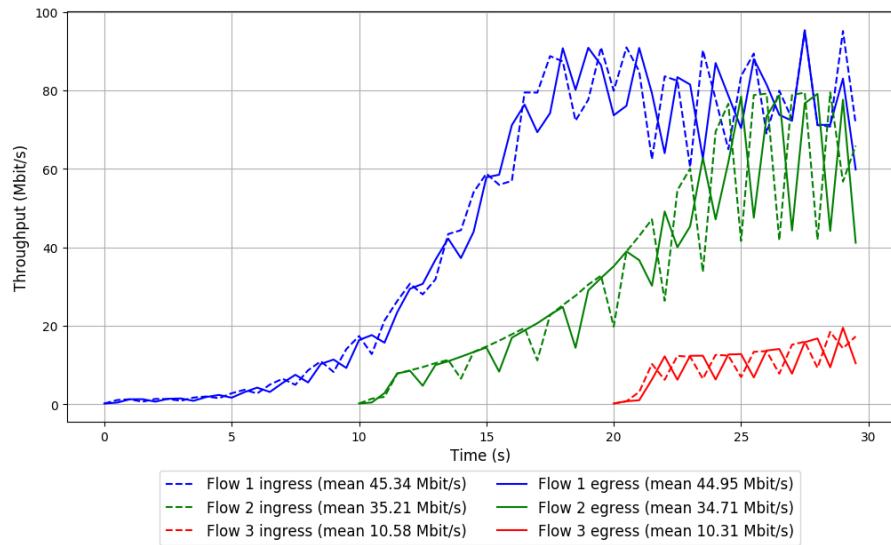
Run 9: Statistics of TCP Cubic

Start at: 2017-12-06 11:52:09

End at: 2017-12-06 11:52:39

```
# Below is generated by plot.py at 2017-12-06 14:48:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.26 Mbit/s
95th percentile per-packet one-way delay: 169.237 ms
Loss rate: 2.29%
-- Flow 1:
Average throughput: 44.95 Mbit/s
95th percentile per-packet one-way delay: 169.406 ms
Loss rate: 1.75%
-- Flow 2:
Average throughput: 34.71 Mbit/s
95th percentile per-packet one-way delay: 169.074 ms
Loss rate: 2.91%
-- Flow 3:
Average throughput: 10.31 Mbit/s
95th percentile per-packet one-way delay: 169.996 ms
Loss rate: 5.24%
```

Run 9: Report of TCP Cubic — Data Link



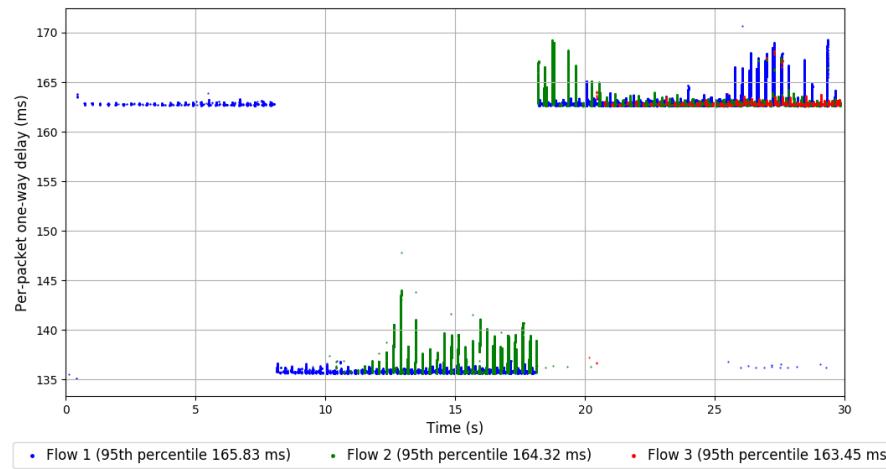
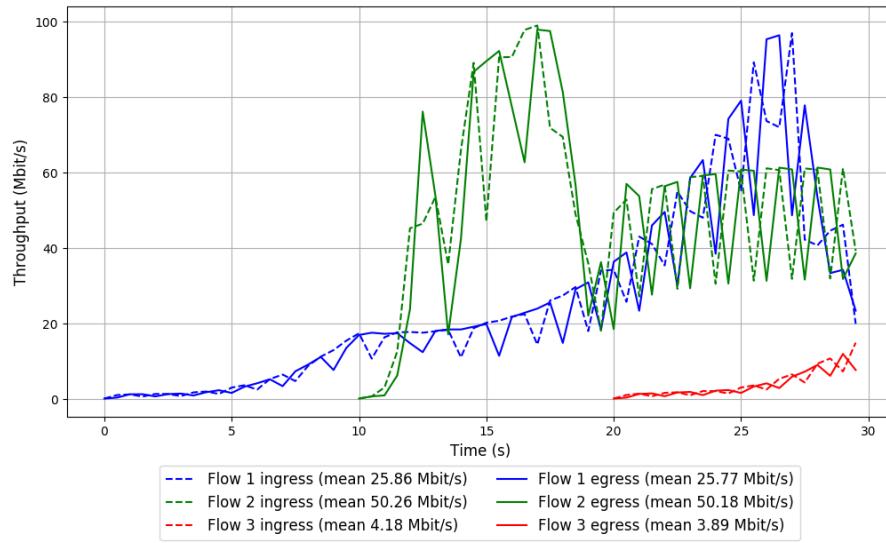
Run 10: Statistics of TCP Cubic

Start at: 2017-12-06 12:05:23

End at: 2017-12-06 12:05:53

```
# Below is generated by plot.py at 2017-12-06 14:48:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.15 Mbit/s
95th percentile per-packet one-way delay: 165.171 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 25.77 Mbit/s
95th percentile per-packet one-way delay: 165.834 ms
Loss rate: 1.28%
-- Flow 2:
Average throughput: 50.18 Mbit/s
95th percentile per-packet one-way delay: 164.319 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 3.89 Mbit/s
95th percentile per-packet one-way delay: 163.452 ms
Loss rate: 9.53%
```

Run 10: Report of TCP Cubic — Data Link

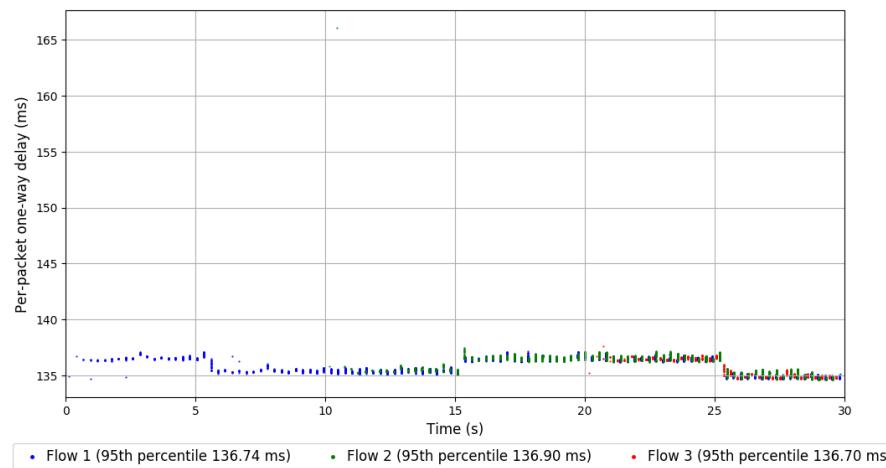
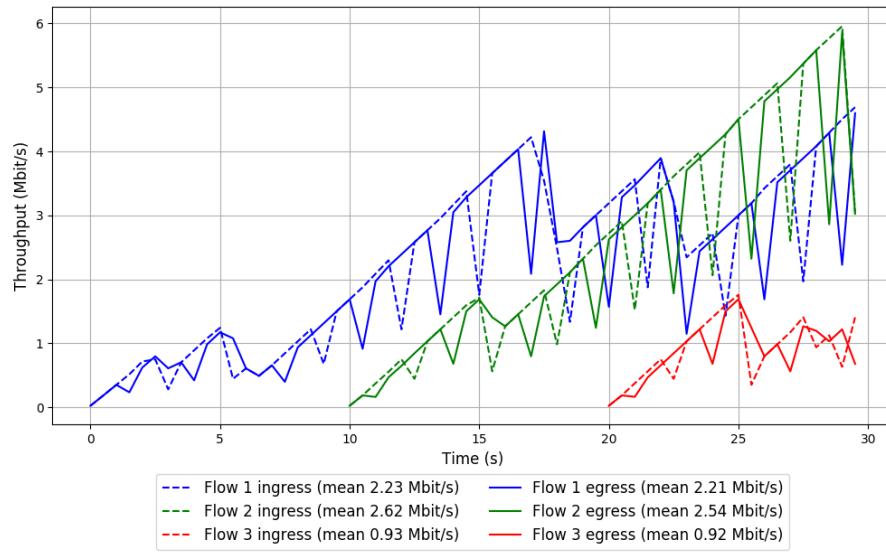


```
Run 1: Statistics of LEDBAT

Start at: 2017-12-06 10:10:05
End at: 2017-12-06 10:10:35

# Below is generated by plot.py at 2017-12-06 14:48:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.19 Mbit/s
95th percentile per-packet one-way delay: 136.806 ms
Loss rate: 2.40%
-- Flow 1:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 136.738 ms
Loss rate: 1.77%
-- Flow 2:
Average throughput: 2.54 Mbit/s
95th percentile per-packet one-way delay: 136.902 ms
Loss rate: 2.94%
-- Flow 3:
Average throughput: 0.92 Mbit/s
95th percentile per-packet one-way delay: 136.703 ms
Loss rate: 4.00%
```

Run 1: Report of LEDBAT — Data Link



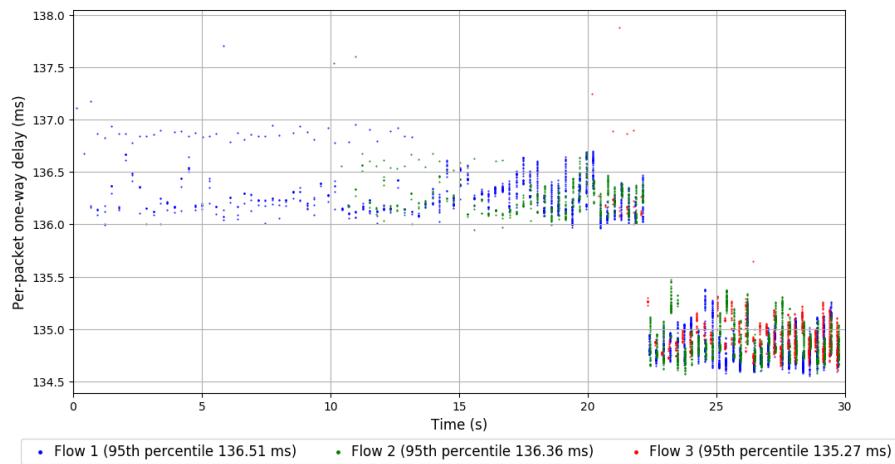
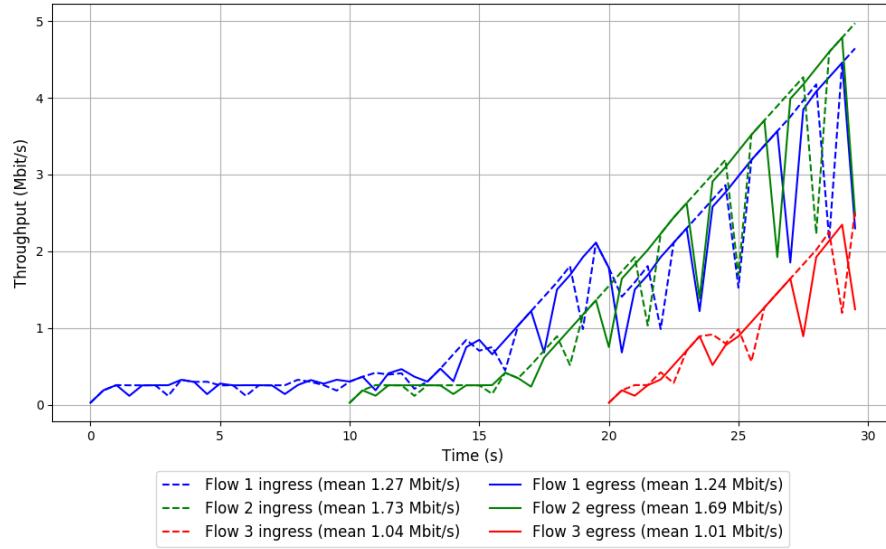
Run 2: Statistics of LEDBAT

Start at: 2017-12-06 10:23:58

End at: 2017-12-06 10:24:28

```
# Below is generated by plot.py at 2017-12-06 14:48:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.68 Mbit/s
95th percentile per-packet one-way delay: 136.424 ms
Loss rate: 3.72%
-- Flow 1:
Average throughput: 1.24 Mbit/s
95th percentile per-packet one-way delay: 136.511 ms
Loss rate: 3.09%
-- Flow 2:
Average throughput: 1.69 Mbit/s
95th percentile per-packet one-way delay: 136.360 ms
Loss rate: 3.65%
-- Flow 3:
Average throughput: 1.01 Mbit/s
95th percentile per-packet one-way delay: 135.271 ms
Loss rate: 6.30%
```

Run 2: Report of LEDBAT — Data Link



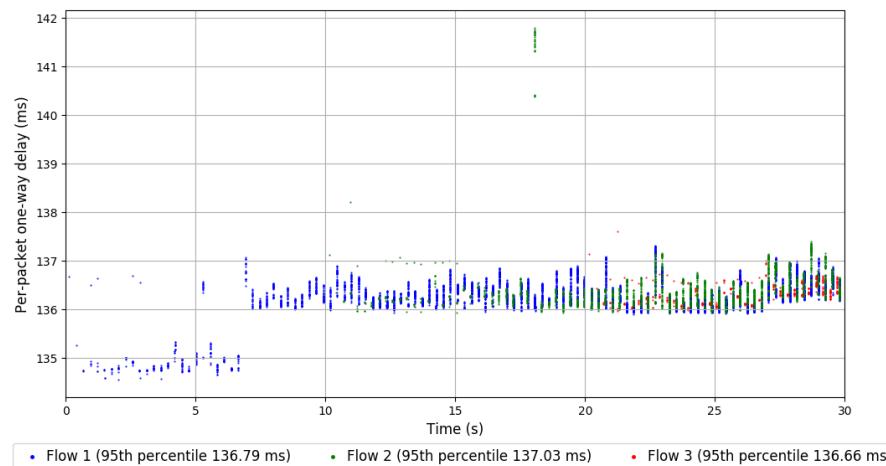
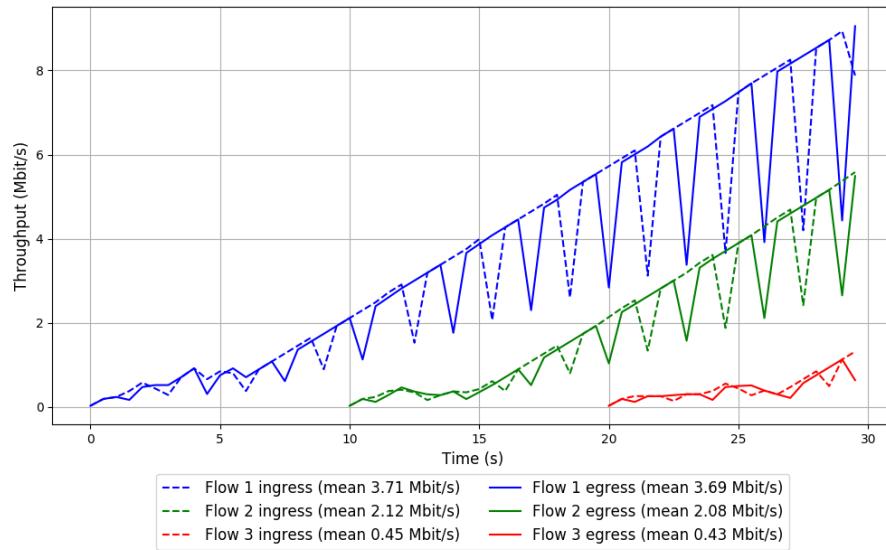
Run 3: Statistics of LEDBAT

Start at: 2017-12-06 10:37:44

End at: 2017-12-06 10:38:14

```
# Below is generated by plot.py at 2017-12-06 14:48:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.21 Mbit/s
95th percentile per-packet one-way delay: 136.854 ms
Loss rate: 2.16%
-- Flow 1:
Average throughput: 3.69 Mbit/s
95th percentile per-packet one-way delay: 136.792 ms
Loss rate: 1.50%
-- Flow 2:
Average throughput: 2.08 Mbit/s
95th percentile per-packet one-way delay: 137.029 ms
Loss rate: 3.33%
-- Flow 3:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 136.655 ms
Loss rate: 7.62%
```

Run 3: Report of LEDBAT — Data Link



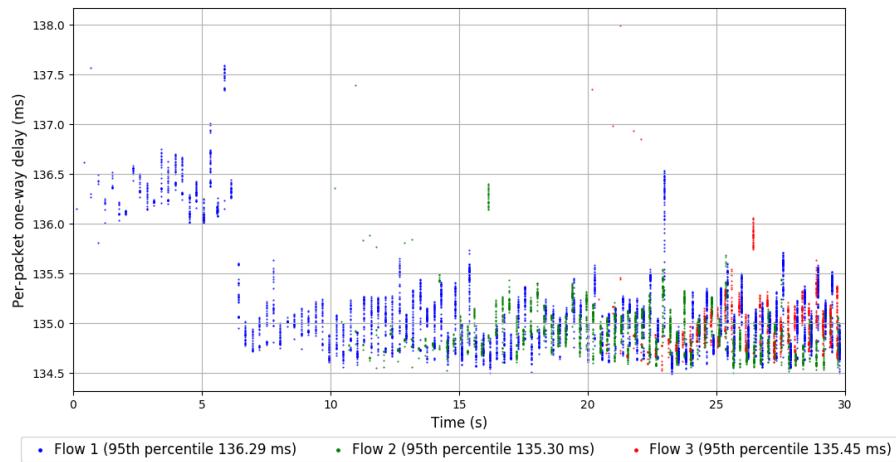
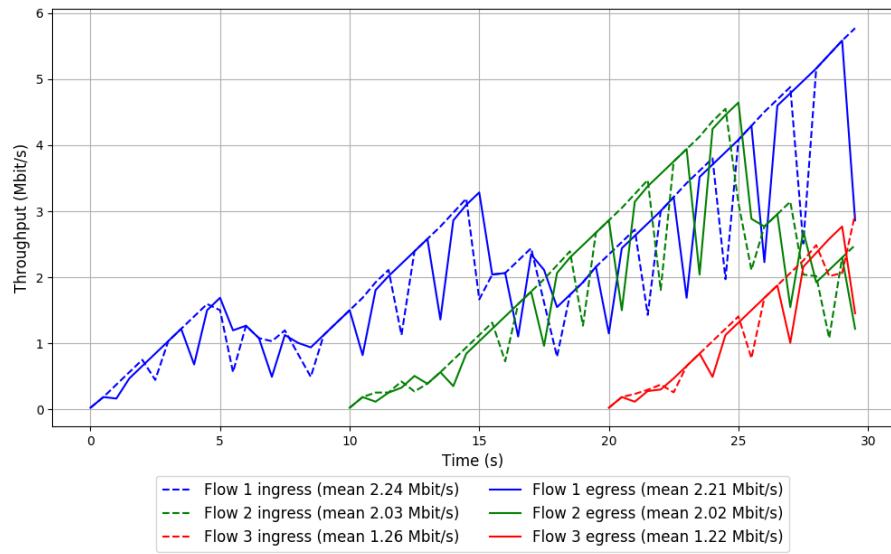
Run 4: Statistics of LEDBAT

Start at: 2017-12-06 10:51:14

End at: 2017-12-06 10:51:44

```
# Below is generated by plot.py at 2017-12-06 14:48:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.93 Mbit/s
95th percentile per-packet one-way delay: 136.042 ms
Loss rate: 2.38%
-- Flow 1:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 136.293 ms
Loss rate: 2.17%
-- Flow 2:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 135.303 ms
Loss rate: 1.58%
-- Flow 3:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 135.446 ms
Loss rate: 6.07%
```

Run 4: Report of LEDBAT — Data Link



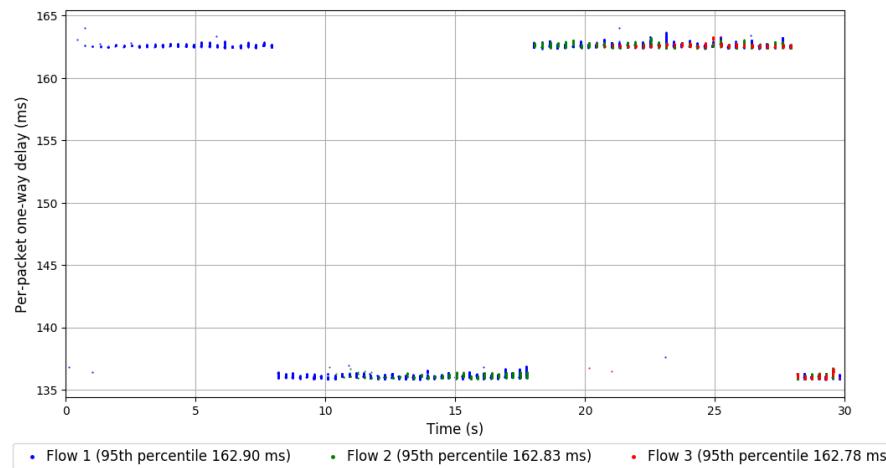
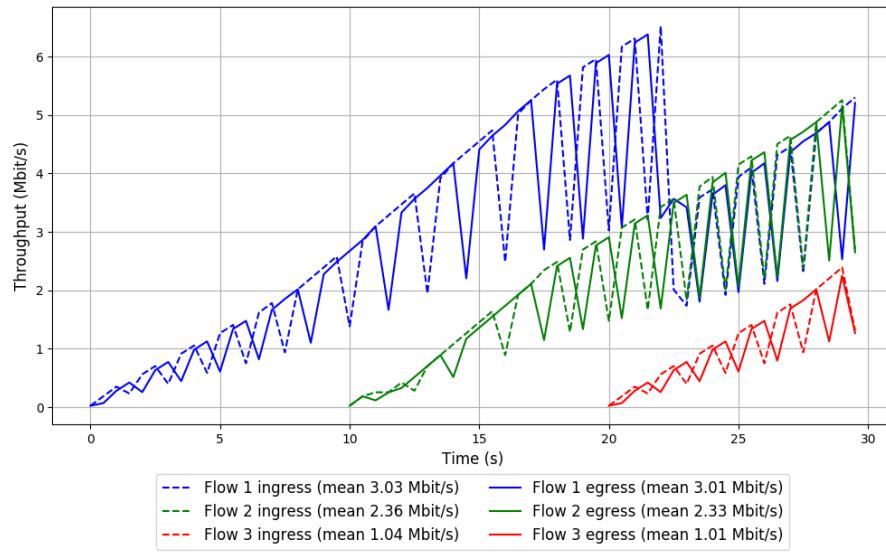
Run 5: Statistics of LEDBAT

Start at: 2017-12-06 11:04:53

End at: 2017-12-06 11:05:23

```
# Below is generated by plot.py at 2017-12-06 14:48:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.86 Mbit/s
95th percentile per-packet one-way delay: 162.873 ms
Loss rate: 2.27%
-- Flow 1:
Average throughput: 3.01 Mbit/s
95th percentile per-packet one-way delay: 162.903 ms
Loss rate: 1.50%
-- Flow 2:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 162.832 ms
Loss rate: 2.90%
-- Flow 3:
Average throughput: 1.01 Mbit/s
95th percentile per-packet one-way delay: 162.784 ms
Loss rate: 6.12%
```

Run 5: Report of LEDBAT — Data Link



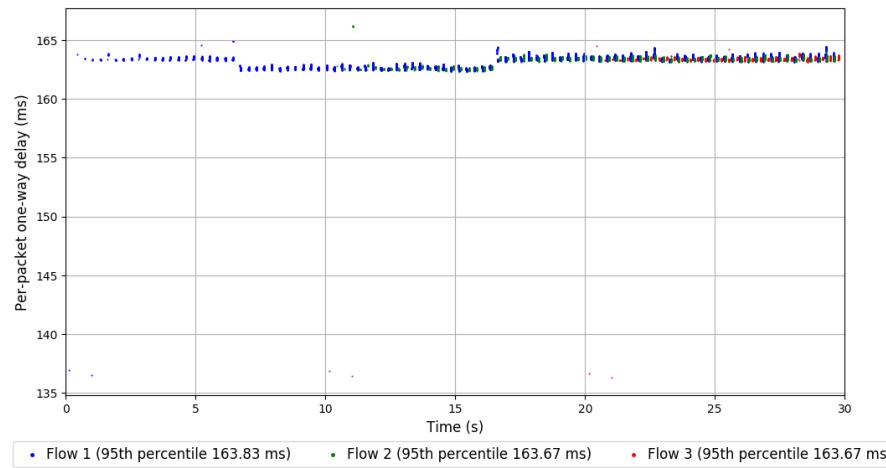
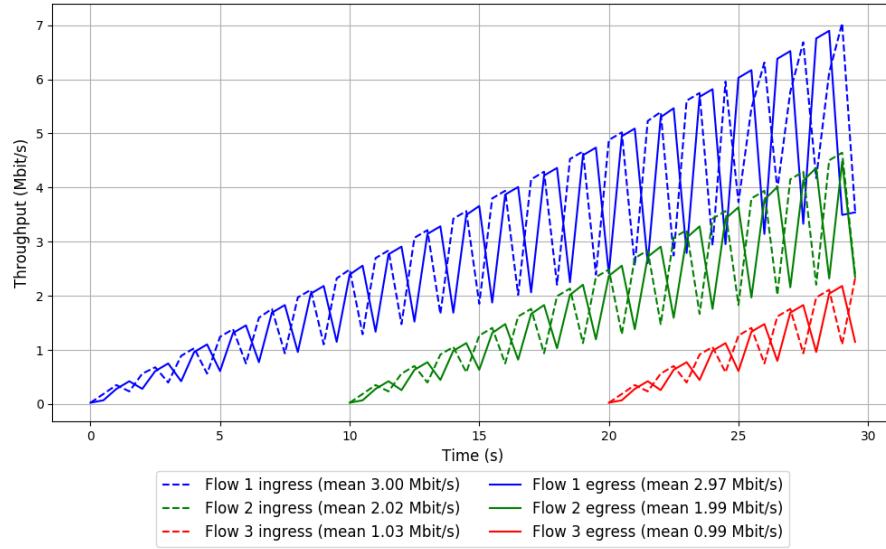
Run 6: Statistics of LEDBAT

Start at: 2017-12-06 11:18:44

End at: 2017-12-06 11:19:14

```
# Below is generated by plot.py at 2017-12-06 14:48:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.58 Mbit/s
95th percentile per-packet one-way delay: 163.782 ms
Loss rate: 2.56%
-- Flow 1:
Average throughput: 2.97 Mbit/s
95th percentile per-packet one-way delay: 163.834 ms
Loss rate: 2.00%
-- Flow 2:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 163.668 ms
Loss rate: 3.00%
-- Flow 3:
Average throughput: 0.99 Mbit/s
95th percentile per-packet one-way delay: 163.672 ms
Loss rate: 5.79%
```

Run 6: Report of LEDBAT — Data Link



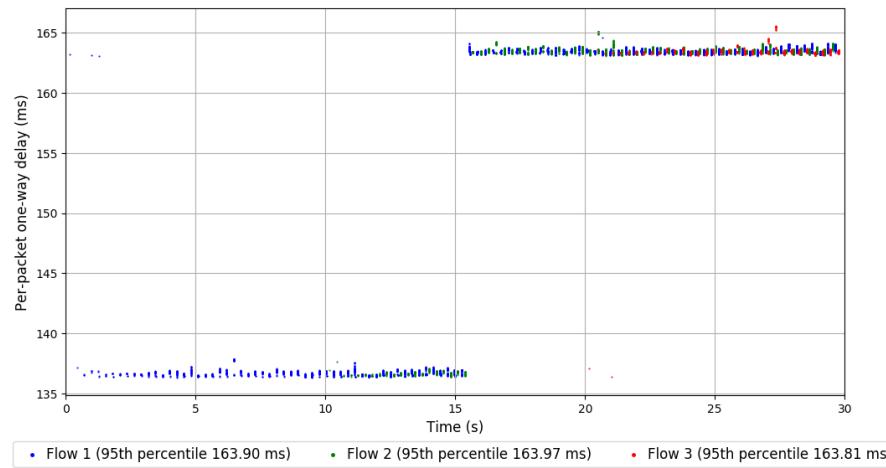
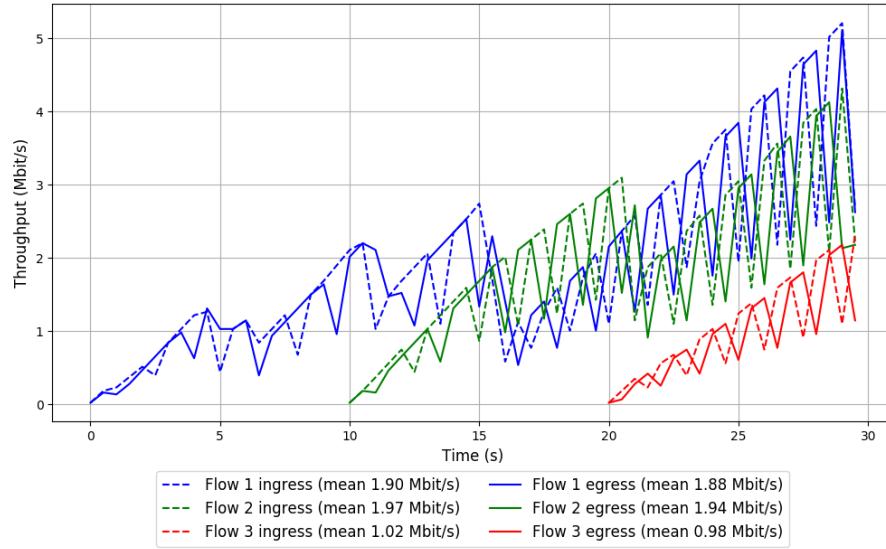
Run 7: Statistics of LEDBAT

Start at: 2017-12-06 11:31:55

End at: 2017-12-06 11:32:25

```
# Below is generated by plot.py at 2017-12-06 14:48:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.46 Mbit/s
95th percentile per-packet one-way delay: 163.913 ms
Loss rate: 2.88%
-- Flow 1:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 163.898 ms
Loss rate: 2.36%
-- Flow 2:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 163.975 ms
Loss rate: 2.88%
-- Flow 3:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 163.812 ms
Loss rate: 5.85%
```

Run 7: Report of LEDBAT — Data Link



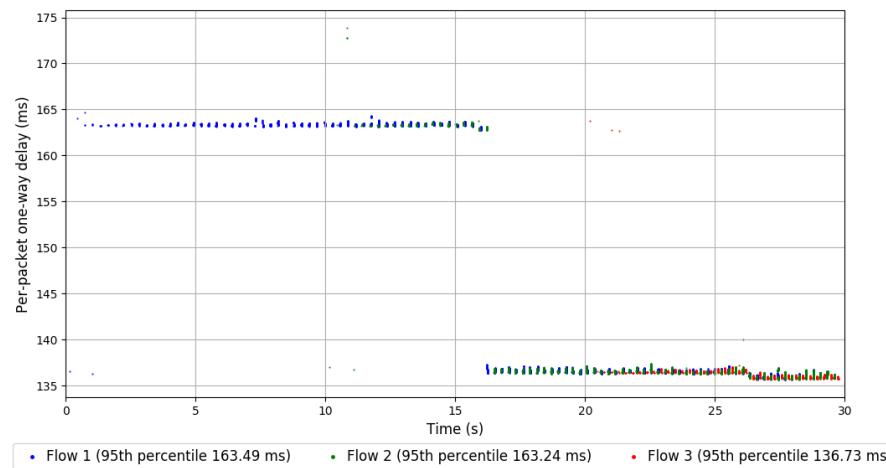
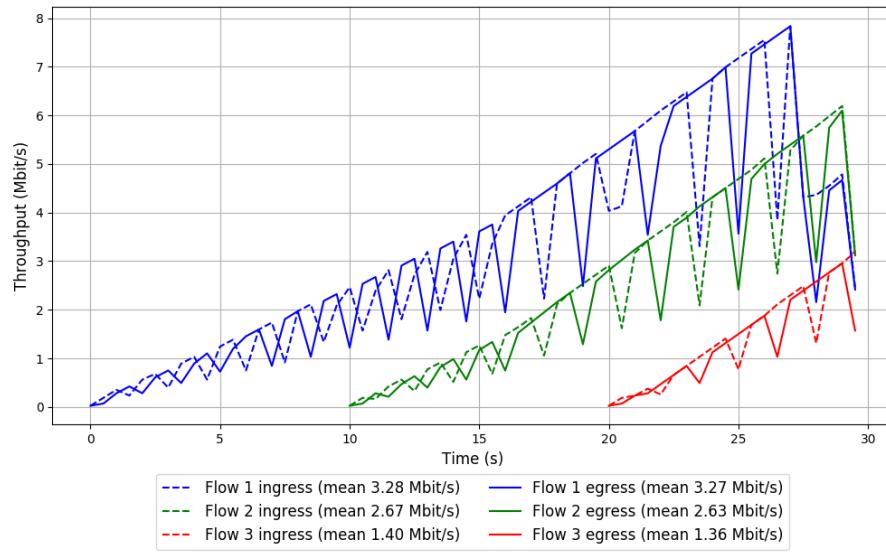
Run 8: Statistics of LEDBAT

Start at: 2017-12-06 11:45:44

End at: 2017-12-06 11:46:14

```
# Below is generated by plot.py at 2017-12-06 14:48:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.42 Mbit/s
95th percentile per-packet one-way delay: 163.435 ms
Loss rate: 2.21%
-- Flow 1:
Average throughput: 3.27 Mbit/s
95th percentile per-packet one-way delay: 163.486 ms
Loss rate: 1.26%
-- Flow 2:
Average throughput: 2.63 Mbit/s
95th percentile per-packet one-way delay: 163.236 ms
Loss rate: 3.00%
-- Flow 3:
Average throughput: 1.36 Mbit/s
95th percentile per-packet one-way delay: 136.728 ms
Loss rate: 5.84%
```

Run 8: Report of LEDBAT — Data Link



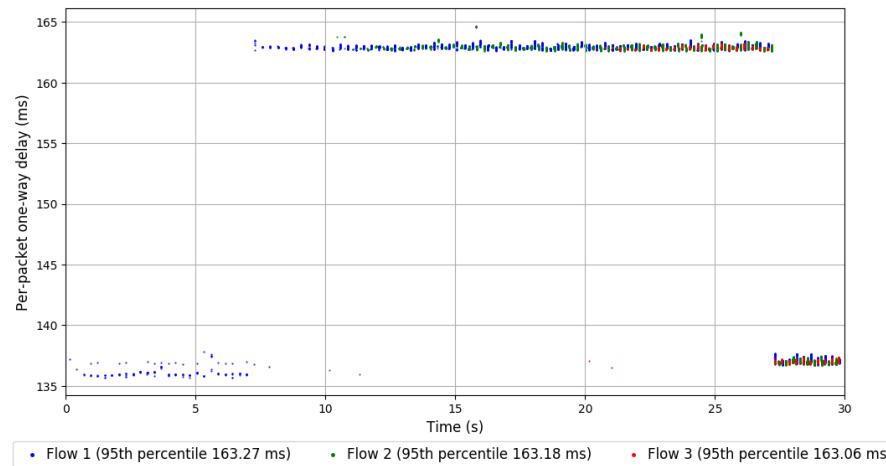
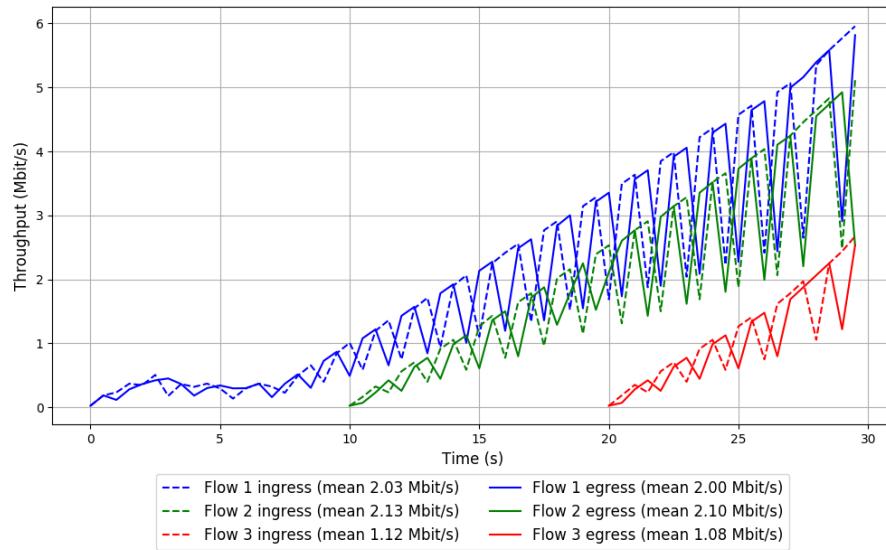
Run 9: Statistics of LEDBAT

Start at: 2017-12-06 11:58:53

End at: 2017-12-06 11:59:23

```
# Below is generated by plot.py at 2017-12-06 14:48:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.73 Mbit/s
95th percentile per-packet one-way delay: 163.232 ms
Loss rate: 3.04%
-- Flow 1:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 163.271 ms
Loss rate: 2.47%
-- Flow 2:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 163.175 ms
Loss rate: 3.05%
-- Flow 3:
Average throughput: 1.08 Mbit/s
95th percentile per-packet one-way delay: 163.065 ms
Loss rate: 6.12%
```

Run 9: Report of LEDBAT — Data Link



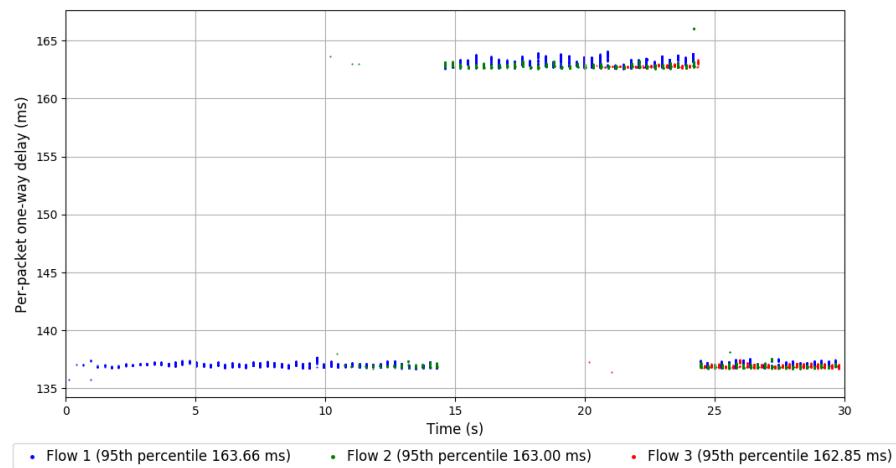
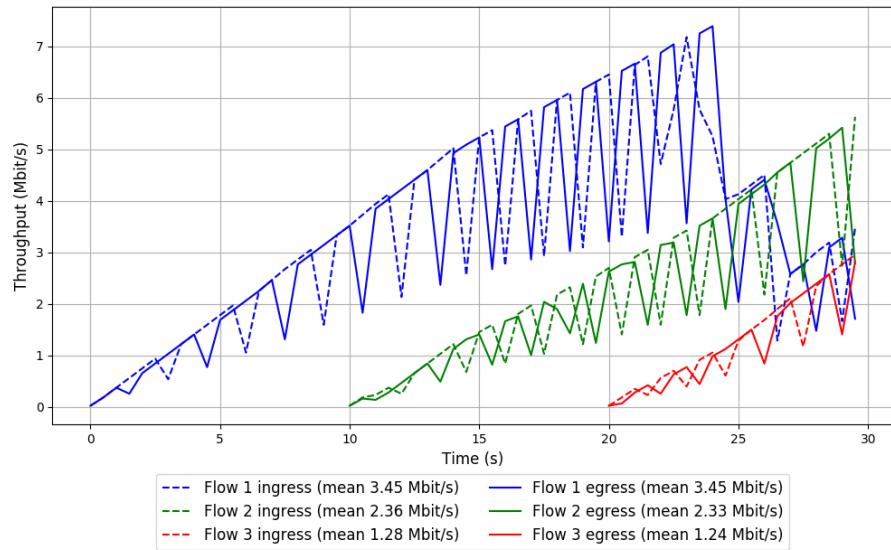
Run 10: Statistics of LEDBAT

Start at: 2017-12-06 12:12:26

End at: 2017-12-06 12:12:56

```
# Below is generated by plot.py at 2017-12-06 14:48:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.37 Mbit/s
95th percentile per-packet one-way delay: 163.581 ms
Loss rate: 1.88%
-- Flow 1:
Average throughput: 3.45 Mbit/s
95th percentile per-packet one-way delay: 163.657 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 162.998 ms
Loss rate: 3.03%
-- Flow 3:
Average throughput: 1.24 Mbit/s
95th percentile per-packet one-way delay: 162.851 ms
Loss rate: 5.92%
```

Run 10: Report of LEDBAT — Data Link

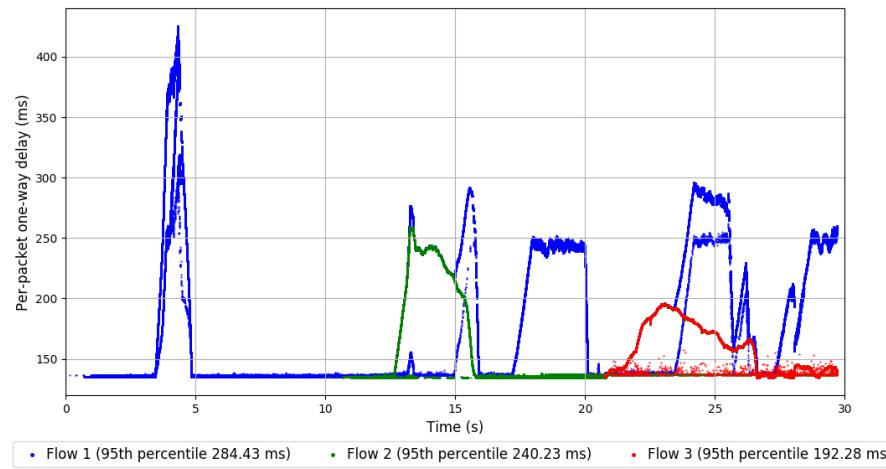
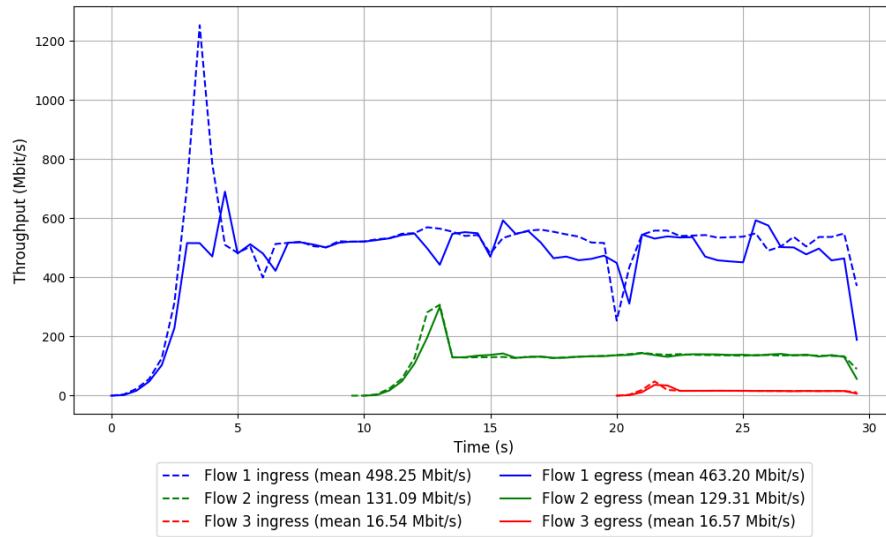


```
Run 1: Statistics of PCC

Start at: 2017-12-06 10:04:42
End at: 2017-12-06 10:05:12

# Below is generated by plot.py at 2017-12-06 14:57:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 554.13 Mbit/s
95th percentile per-packet one-way delay: 282.143 ms
Loss rate: 7.08%
-- Flow 1:
Average throughput: 463.20 Mbit/s
95th percentile per-packet one-way delay: 284.429 ms
Loss rate: 7.89%
-- Flow 2:
Average throughput: 129.31 Mbit/s
95th percentile per-packet one-way delay: 240.228 ms
Loss rate: 2.71%
-- Flow 3:
Average throughput: 16.57 Mbit/s
95th percentile per-packet one-way delay: 192.281 ms
Loss rate: 2.67%
```

Run 1: Report of PCC — Data Link



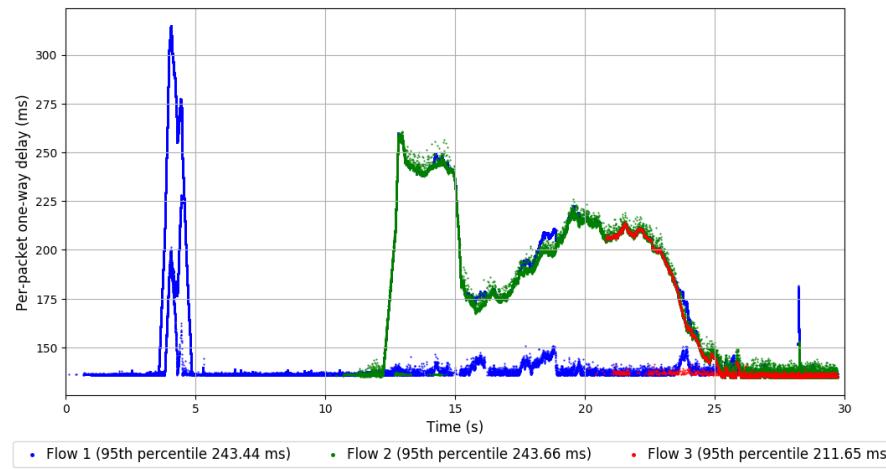
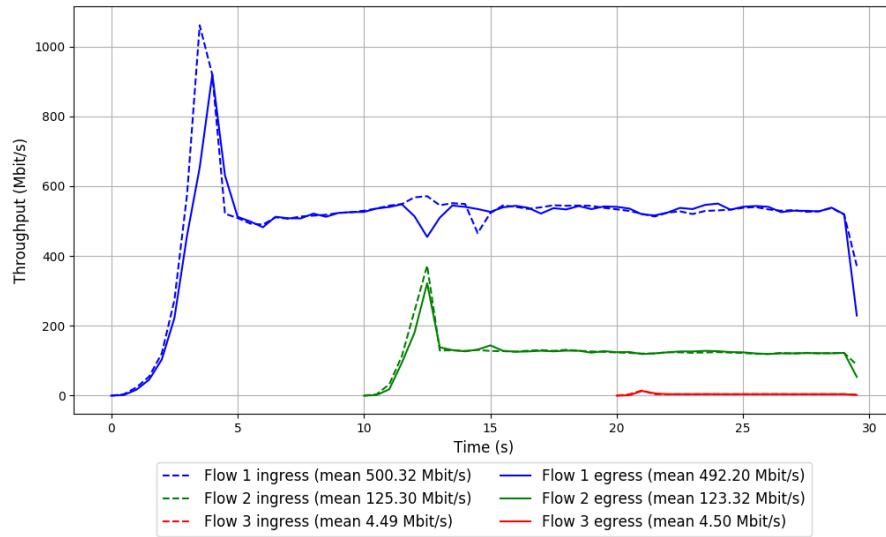
Run 2: Statistics of PCC

Start at: 2017-12-06 10:18:36

End at: 2017-12-06 10:19:06

```
# Below is generated by plot.py at 2017-12-06 14:57:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 575.25 Mbit/s
95th percentile per-packet one-way delay: 243.468 ms
Loss rate: 2.58%
-- Flow 1:
Average throughput: 492.20 Mbit/s
95th percentile per-packet one-way delay: 243.443 ms
Loss rate: 2.52%
-- Flow 2:
Average throughput: 123.32 Mbit/s
95th percentile per-packet one-way delay: 243.656 ms
Loss rate: 2.93%
-- Flow 3:
Average throughput: 4.50 Mbit/s
95th percentile per-packet one-way delay: 211.650 ms
Loss rate: 2.61%
```

Run 2: Report of PCC — Data Link



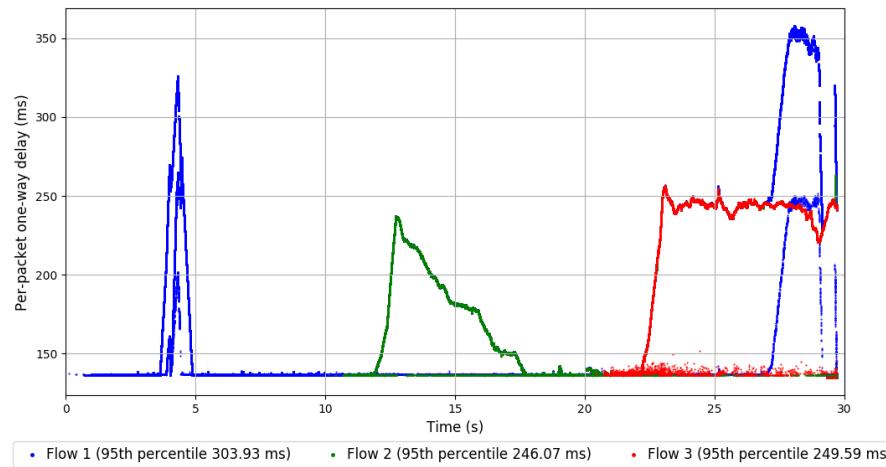
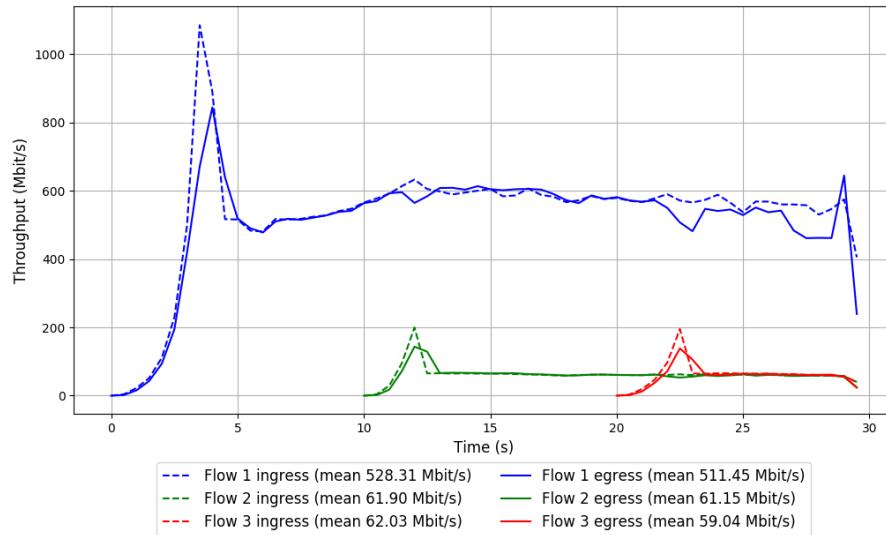
Run 3: Statistics of PCC

Start at: 2017-12-06 10:32:22

End at: 2017-12-06 10:32:52

```
# Below is generated by plot.py at 2017-12-06 14:57:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 570.96 Mbit/s
95th percentile per-packet one-way delay: 289.957 ms
Loss rate: 4.09%
-- Flow 1:
Average throughput: 511.45 Mbit/s
95th percentile per-packet one-way delay: 303.925 ms
Loss rate: 4.08%
-- Flow 2:
Average throughput: 61.15 Mbit/s
95th percentile per-packet one-way delay: 246.071 ms
Loss rate: 2.57%
-- Flow 3:
Average throughput: 59.04 Mbit/s
95th percentile per-packet one-way delay: 249.589 ms
Loss rate: 7.48%
```

Run 3: Report of PCC — Data Link



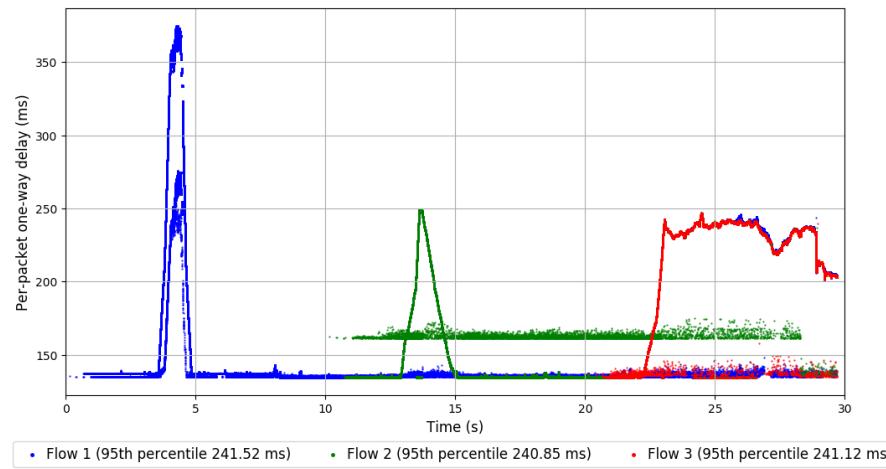
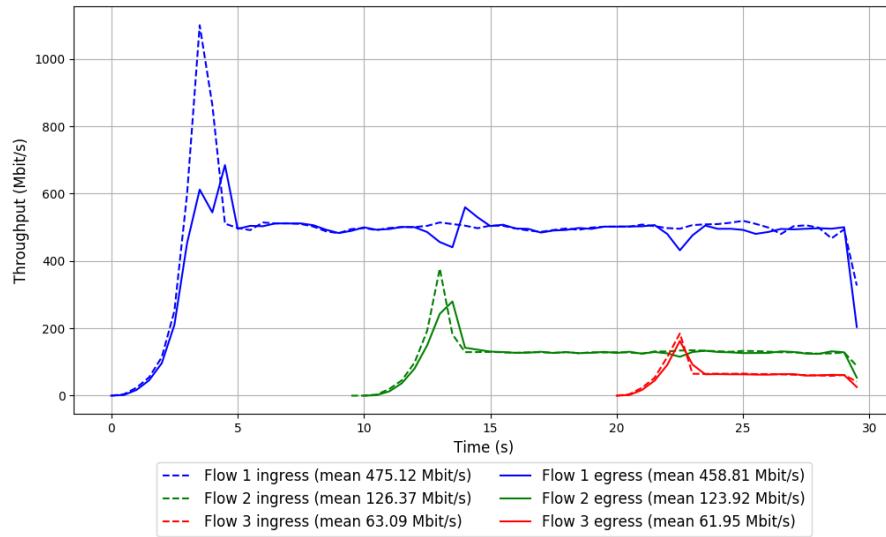
Run 4: Statistics of PCC

Start at: 2017-12-06 10:45:52

End at: 2017-12-06 10:46:22

```
# Below is generated by plot.py at 2017-12-06 14:57:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 560.76 Mbit/s
95th percentile per-packet one-way delay: 241.315 ms
Loss rate: 4.19%
-- Flow 1:
Average throughput: 458.81 Mbit/s
95th percentile per-packet one-way delay: 241.517 ms
Loss rate: 4.31%
-- Flow 2:
Average throughput: 123.92 Mbit/s
95th percentile per-packet one-way delay: 240.851 ms
Loss rate: 3.41%
-- Flow 3:
Average throughput: 61.95 Mbit/s
95th percentile per-packet one-way delay: 241.121 ms
Loss rate: 4.52%
```

Run 4: Report of PCC — Data Link



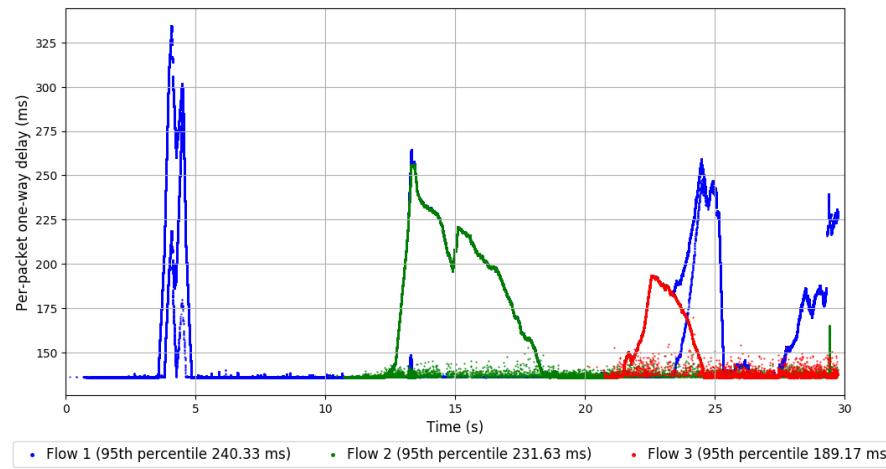
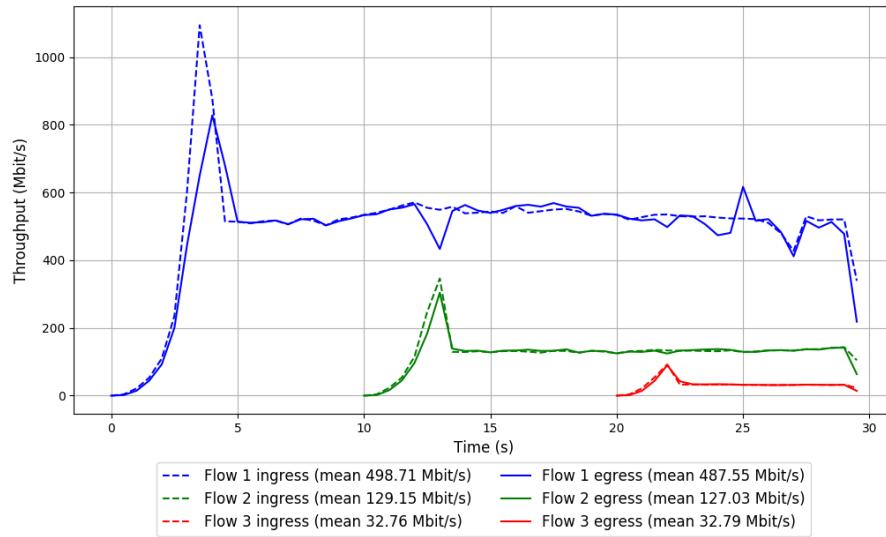
Run 5: Statistics of PCC

Start at: 2017-12-06 10:59:40

End at: 2017-12-06 11:00:10

```
# Below is generated by plot.py at 2017-12-06 14:58:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 582.12 Mbit/s
95th percentile per-packet one-way delay: 238.716 ms
Loss rate: 3.11%
-- Flow 1:
Average throughput: 487.55 Mbit/s
95th percentile per-packet one-way delay: 240.328 ms
Loss rate: 3.13%
-- Flow 2:
Average throughput: 127.03 Mbit/s
95th percentile per-packet one-way delay: 231.626 ms
Loss rate: 3.00%
-- Flow 3:
Average throughput: 32.79 Mbit/s
95th percentile per-packet one-way delay: 189.174 ms
Loss rate: 2.75%
```

Run 5: Report of PCC — Data Link



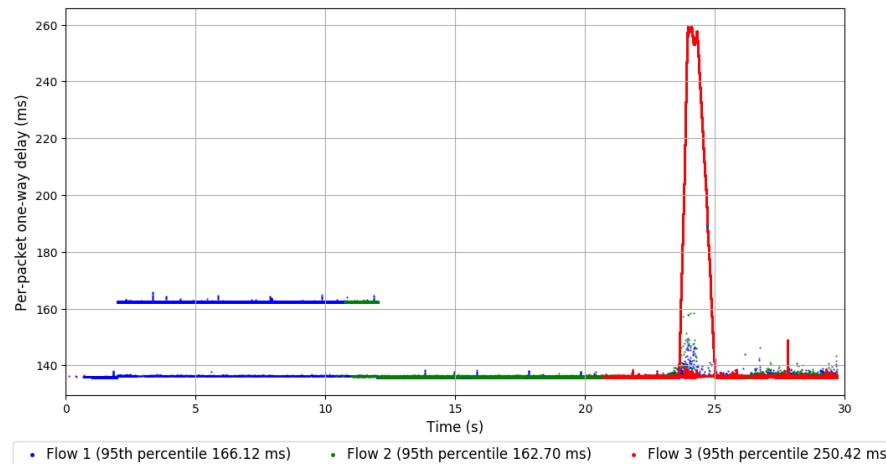
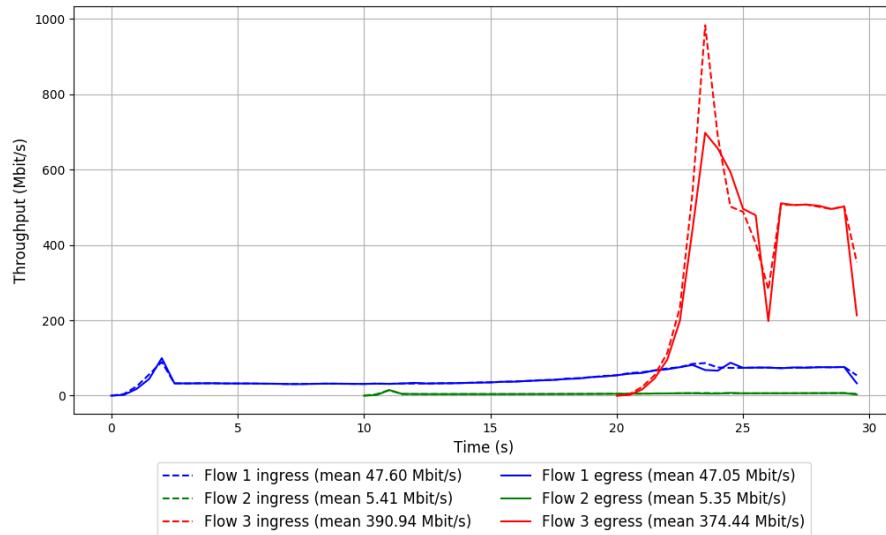
Run 6: Statistics of PCC

Start at: 2017-12-06 11:13:39

End at: 2017-12-06 11:14:09

```
# Below is generated by plot.py at 2017-12-06 14:58:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 171.59 Mbit/s
95th percentile per-packet one-way delay: 237.763 ms
Loss rate: 5.53%
-- Flow 1:
Average throughput: 47.05 Mbit/s
95th percentile per-packet one-way delay: 166.123 ms
Loss rate: 2.06%
-- Flow 2:
Average throughput: 5.35 Mbit/s
95th percentile per-packet one-way delay: 162.699 ms
Loss rate: 2.43%
-- Flow 3:
Average throughput: 374.44 Mbit/s
95th percentile per-packet one-way delay: 250.418 ms
Loss rate: 6.90%
```

Run 6: Report of PCC — Data Link



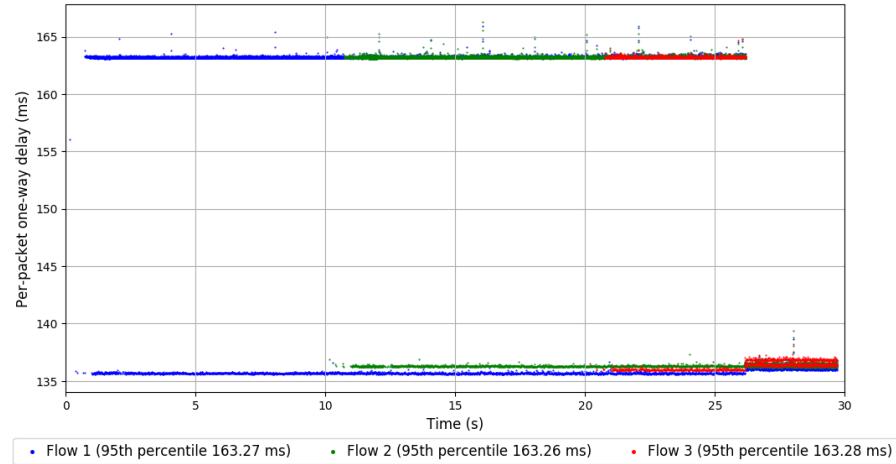
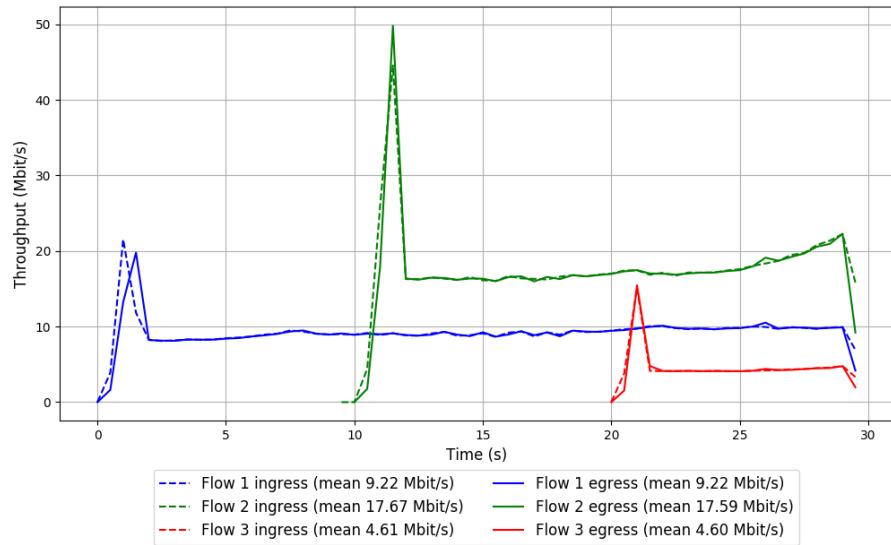
Run 7: Statistics of PCC

Start at: 2017-12-06 11:27:04

End at: 2017-12-06 11:27:34

```
# Below is generated by plot.py at 2017-12-06 14:58:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.36 Mbit/s
95th percentile per-packet one-way delay: 163.264 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 9.22 Mbit/s
95th percentile per-packet one-way delay: 163.270 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 17.59 Mbit/s
95th percentile per-packet one-way delay: 163.257 ms
Loss rate: 1.81%
-- Flow 3:
Average throughput: 4.60 Mbit/s
95th percentile per-packet one-way delay: 163.276 ms
Loss rate: 2.95%
```

Run 7: Report of PCC — Data Link



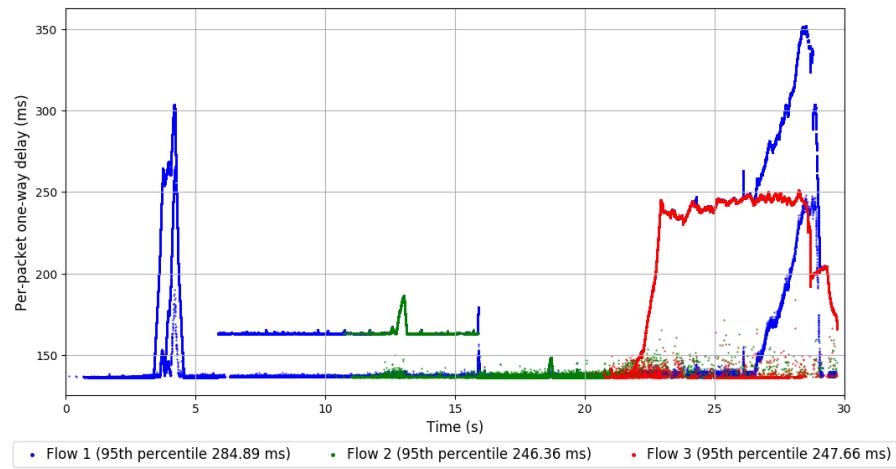
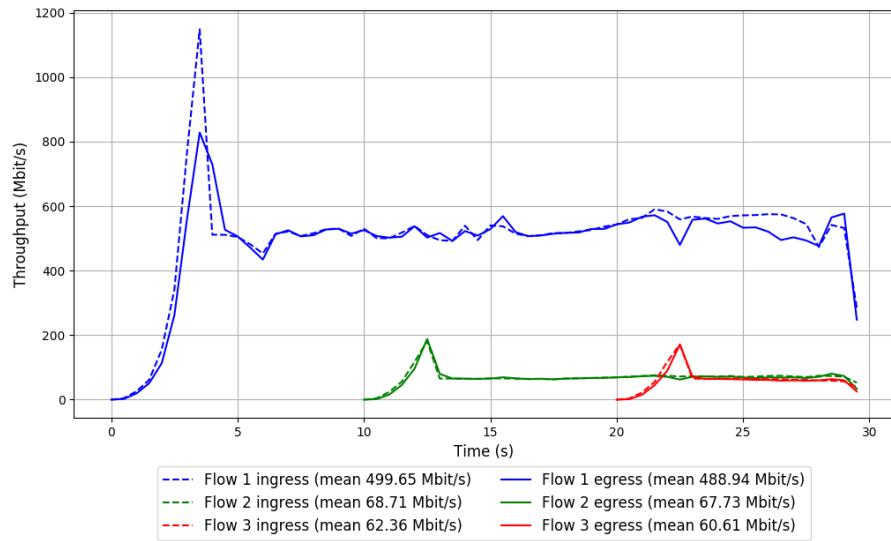
Run 8: Statistics of PCC

Start at: 2017-12-06 11:40:25

End at: 2017-12-06 11:40:55

```
# Below is generated by plot.py at 2017-12-06 14:58:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 553.21 Mbit/s
95th percentile per-packet one-way delay: 280.032 ms
Loss rate: 3.11%
-- Flow 1:
Average throughput: 488.94 Mbit/s
95th percentile per-packet one-way delay: 284.890 ms
Loss rate: 3.04%
-- Flow 2:
Average throughput: 67.73 Mbit/s
95th percentile per-packet one-way delay: 246.356 ms
Loss rate: 2.76%
-- Flow 3:
Average throughput: 60.61 Mbit/s
95th percentile per-packet one-way delay: 247.655 ms
Loss rate: 5.50%
```

Run 8: Report of PCC — Data Link



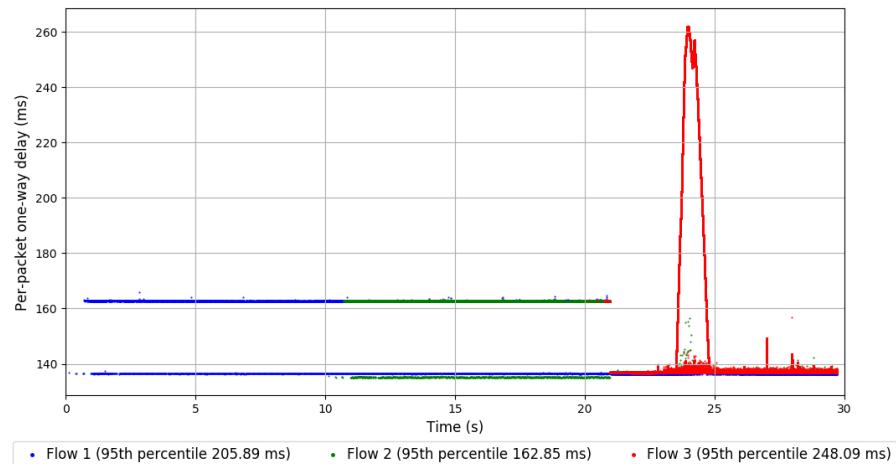
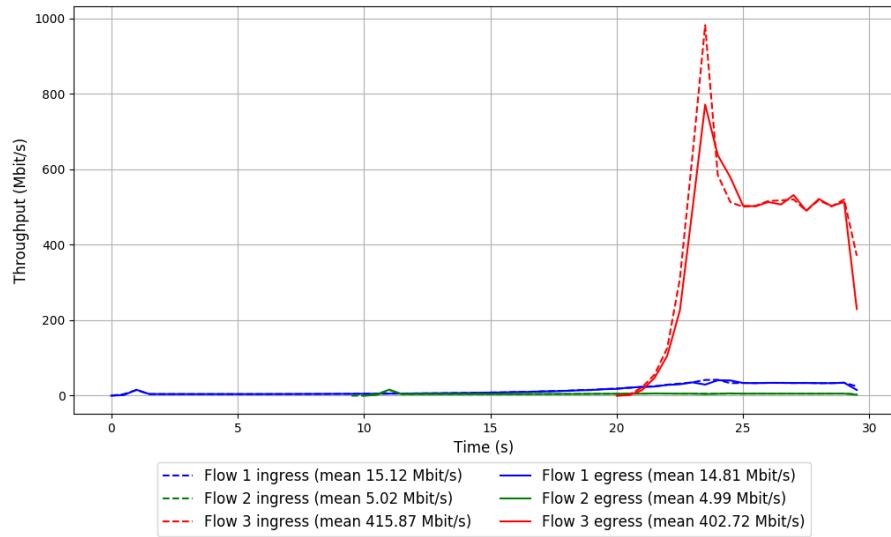
Run 9: Statistics of PCC

Start at: 2017-12-06 11:54:00

End at: 2017-12-06 11:54:30

```
# Below is generated by plot.py at 2017-12-06 14:58:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 148.08 Mbit/s
95th percentile per-packet one-way delay: 245.433 ms
Loss rate: 5.70%
-- Flow 1:
Average throughput: 14.81 Mbit/s
95th percentile per-packet one-way delay: 205.886 ms
Loss rate: 2.88%
-- Flow 2:
Average throughput: 4.99 Mbit/s
95th percentile per-packet one-way delay: 162.851 ms
Loss rate: 1.94%
-- Flow 3:
Average throughput: 402.72 Mbit/s
95th percentile per-packet one-way delay: 248.092 ms
Loss rate: 6.10%
```

Run 9: Report of PCC — Data Link



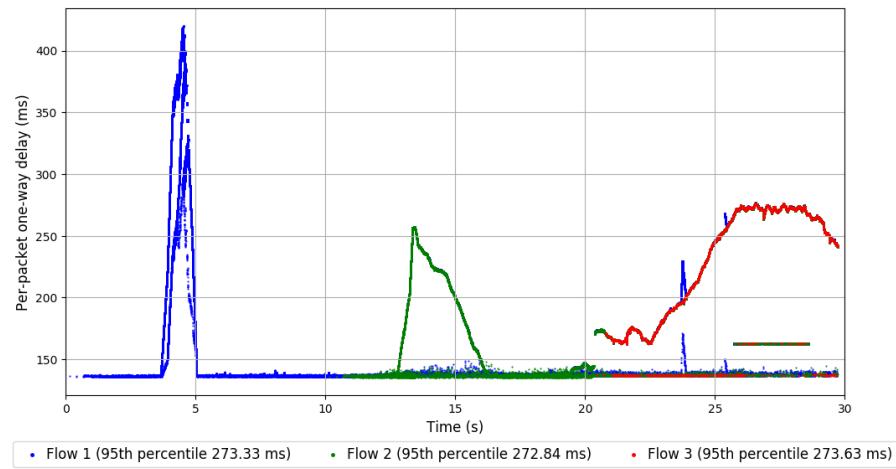
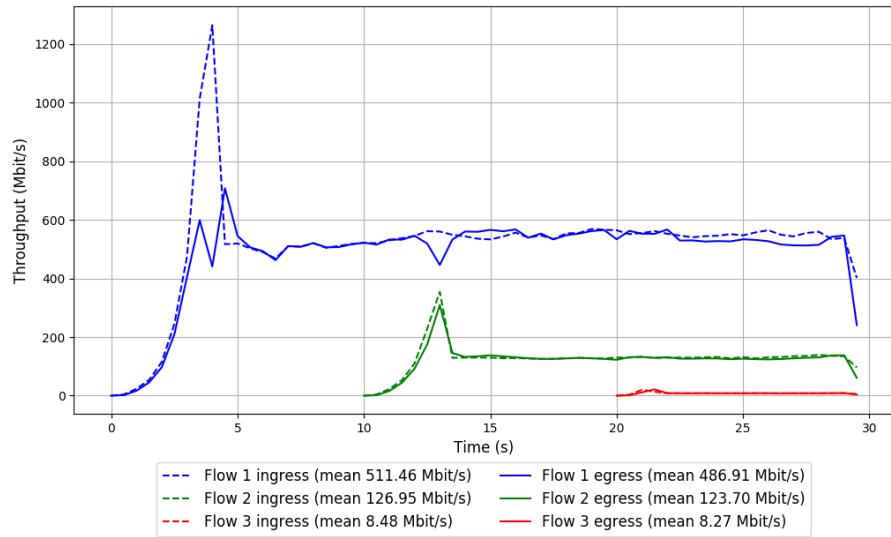
Run 10: Statistics of PCC

Start at: 2017-12-06 12:07:10

End at: 2017-12-06 12:07:40

```
# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 571.33 Mbit/s
95th percentile per-packet one-way delay: 273.246 ms
Loss rate: 5.42%
-- Flow 1:
Average throughput: 486.91 Mbit/s
95th percentile per-packet one-way delay: 273.334 ms
Loss rate: 5.67%
-- Flow 2:
Average throughput: 123.70 Mbit/s
95th percentile per-packet one-way delay: 272.841 ms
Loss rate: 3.89%
-- Flow 3:
Average throughput: 8.27 Mbit/s
95th percentile per-packet one-way delay: 273.627 ms
Loss rate: 5.21%
```

Run 10: Report of PCC — Data Link

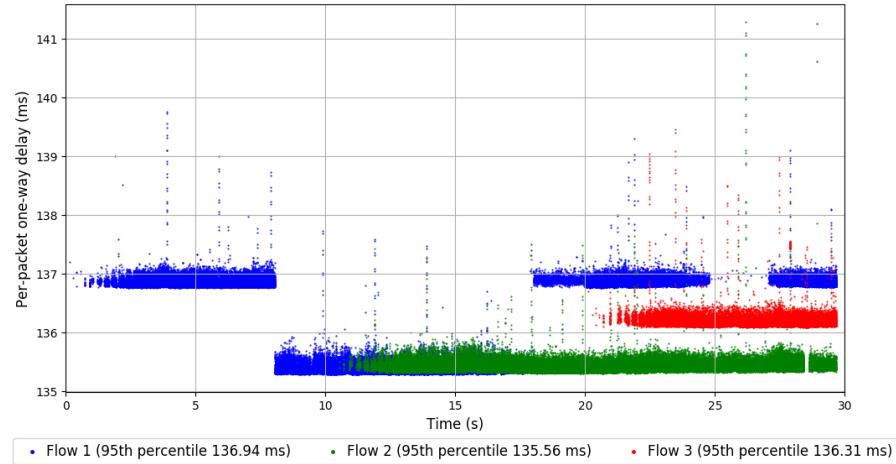
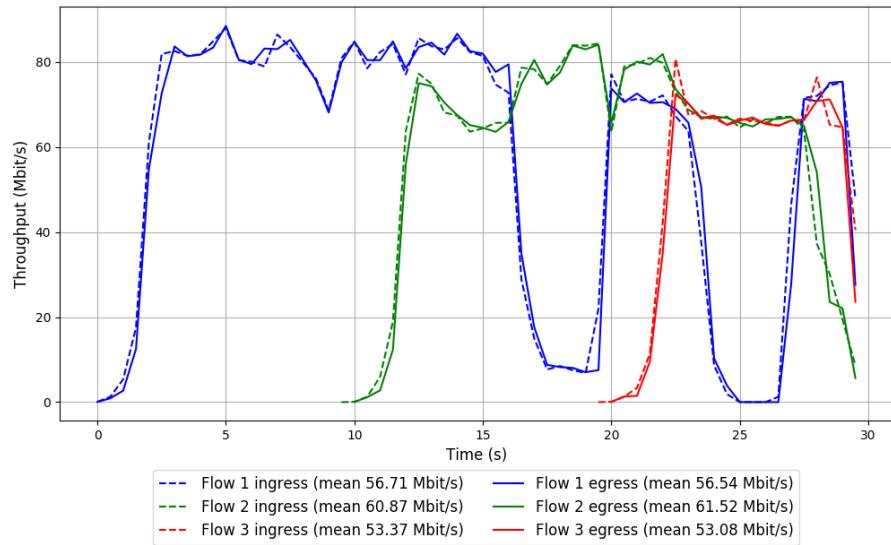


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-12-06 10:14:52
End at: 2017-12-06 10:15:22

# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 114.45 Mbit/s
95th percentile per-packet one-way delay: 136.897 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 56.54 Mbit/s
95th percentile per-packet one-way delay: 136.940 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 61.52 Mbit/s
95th percentile per-packet one-way delay: 135.555 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 53.08 Mbit/s
95th percentile per-packet one-way delay: 136.310 ms
Loss rate: 3.29%
```

Run 1: Report of QUIC Cubic — Data Link



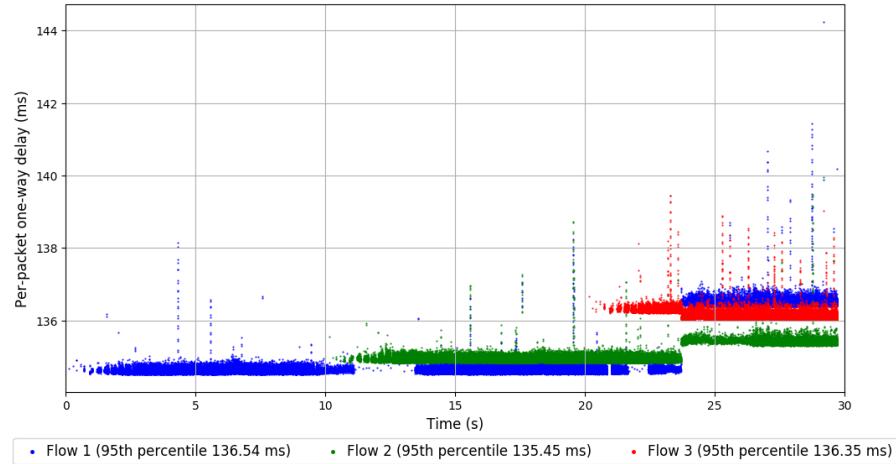
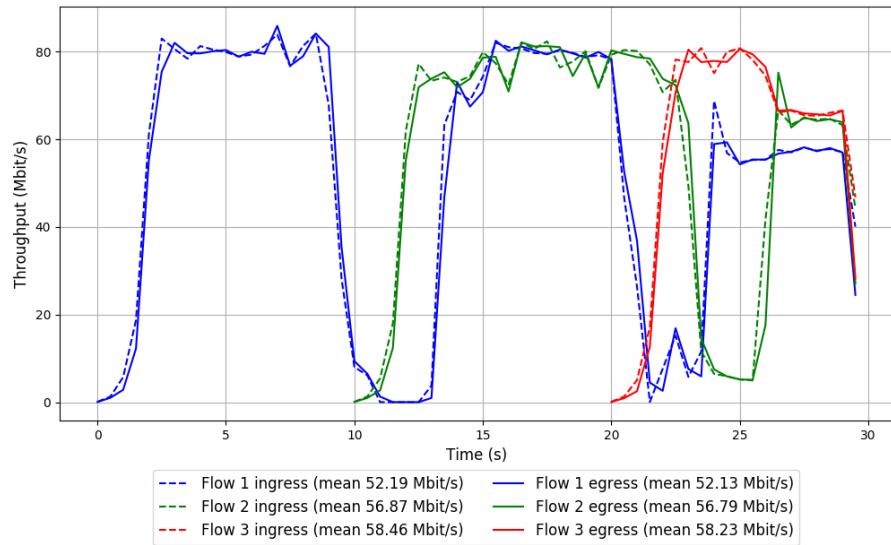
Run 2: Statistics of QUIC Cubic

Start at: 2017-12-06 10:28:37

End at: 2017-12-06 10:29:07

```
# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 108.53 Mbit/s
95th percentile per-packet one-way delay: 136.484 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 52.13 Mbit/s
95th percentile per-packet one-way delay: 136.539 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 56.79 Mbit/s
95th percentile per-packet one-way delay: 135.450 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 58.23 Mbit/s
95th percentile per-packet one-way delay: 136.355 ms
Loss rate: 3.19%
```

Run 2: Report of QUIC Cubic — Data Link



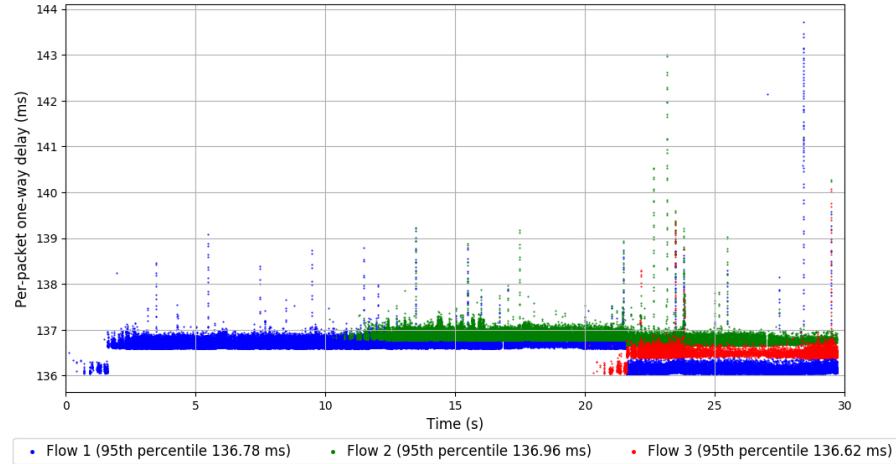
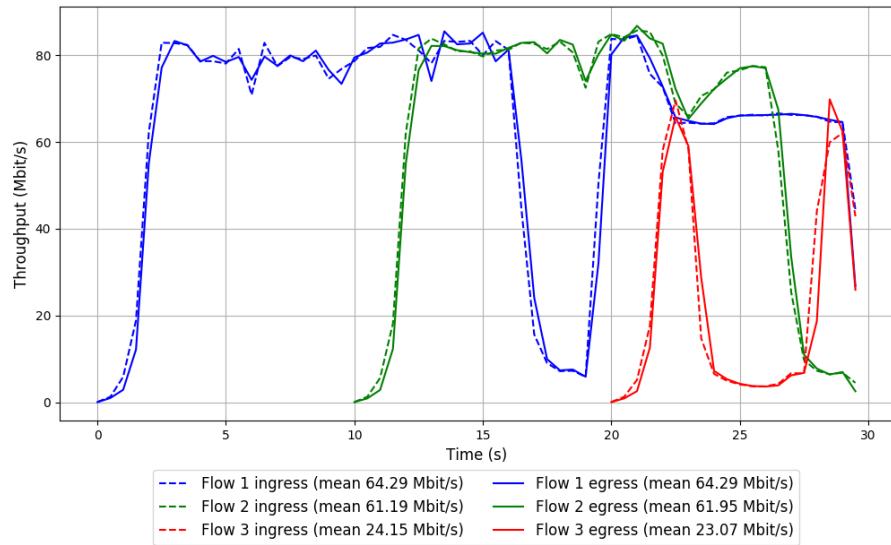
```
Run 3: Statistics of QUIC Cubic
```

```
Start at: 2017-12-06 10:42:19
```

```
End at: 2017-12-06 10:42:49
```

```
# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 112.72 Mbit/s
95th percentile per-packet one-way delay: 136.896 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 64.29 Mbit/s
95th percentile per-packet one-way delay: 136.783 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 61.95 Mbit/s
95th percentile per-packet one-way delay: 136.955 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 23.07 Mbit/s
95th percentile per-packet one-way delay: 136.623 ms
Loss rate: 7.13%
```

Run 3: Report of QUIC Cubic — Data Link



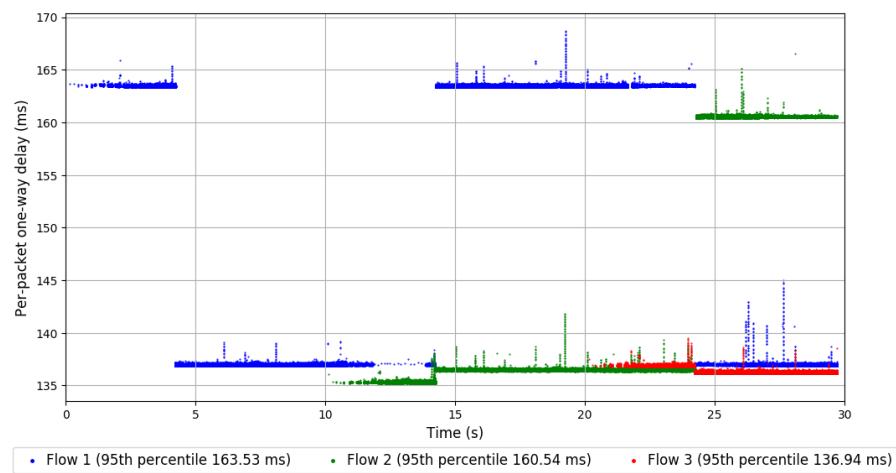
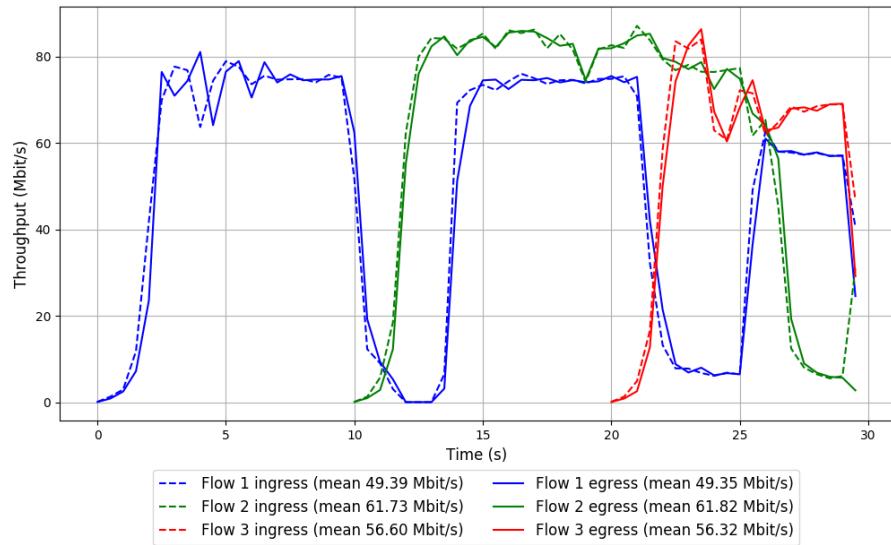
Run 4: Statistics of QUIC Cubic

Start at: 2017-12-06 10:56:06

End at: 2017-12-06 10:56:36

```
# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 108.53 Mbit/s
95th percentile per-packet one-way delay: 163.483 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 49.35 Mbit/s
95th percentile per-packet one-way delay: 163.528 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 61.82 Mbit/s
95th percentile per-packet one-way delay: 160.545 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 56.32 Mbit/s
95th percentile per-packet one-way delay: 136.936 ms
Loss rate: 3.26%
```

Run 4: Report of QUIC Cubic — Data Link



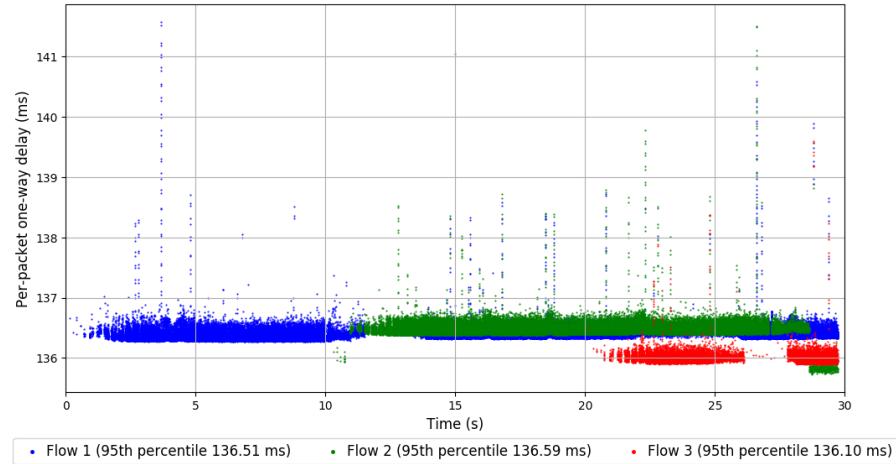
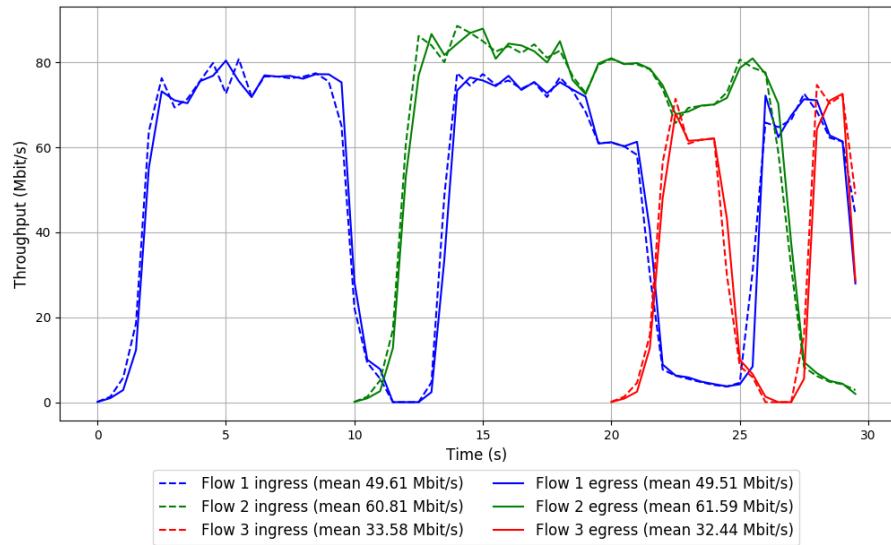
Run 5: Statistics of QUIC Cubic

Start at: 2017-12-06 11:10:00

End at: 2017-12-06 11:10:30

```
# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 100.74 Mbit/s
95th percentile per-packet one-way delay: 136.552 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 49.51 Mbit/s
95th percentile per-packet one-way delay: 136.511 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 61.59 Mbit/s
95th percentile per-packet one-way delay: 136.591 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 32.44 Mbit/s
95th percentile per-packet one-way delay: 136.100 ms
Loss rate: 6.07%
```

Run 5: Report of QUIC Cubic — Data Link



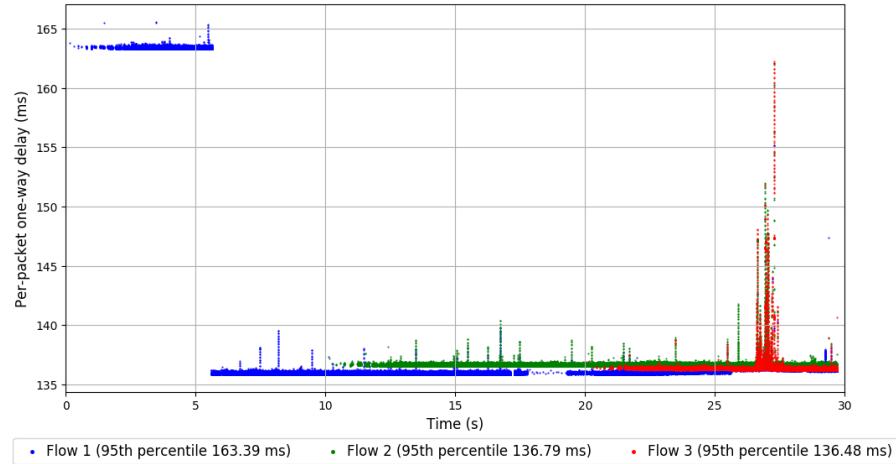
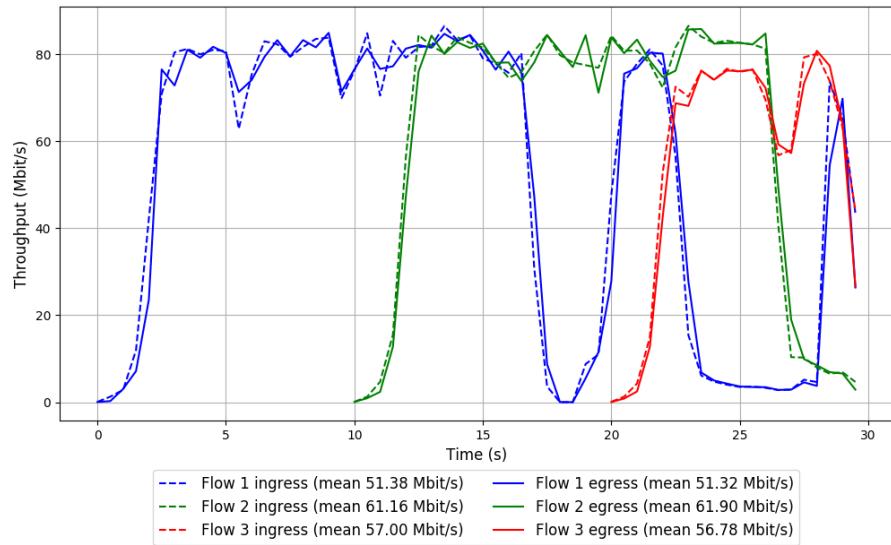
Run 6: Statistics of QUIC Cubic

Start at: 2017-12-06 11:23:25

End at: 2017-12-06 11:23:55

```
# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 110.69 Mbit/s
95th percentile per-packet one-way delay: 163.347 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 51.32 Mbit/s
95th percentile per-packet one-way delay: 163.388 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 61.90 Mbit/s
95th percentile per-packet one-way delay: 136.788 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 56.78 Mbit/s
95th percentile per-packet one-way delay: 136.476 ms
Loss rate: 3.10%
```

Run 6: Report of QUIC Cubic — Data Link



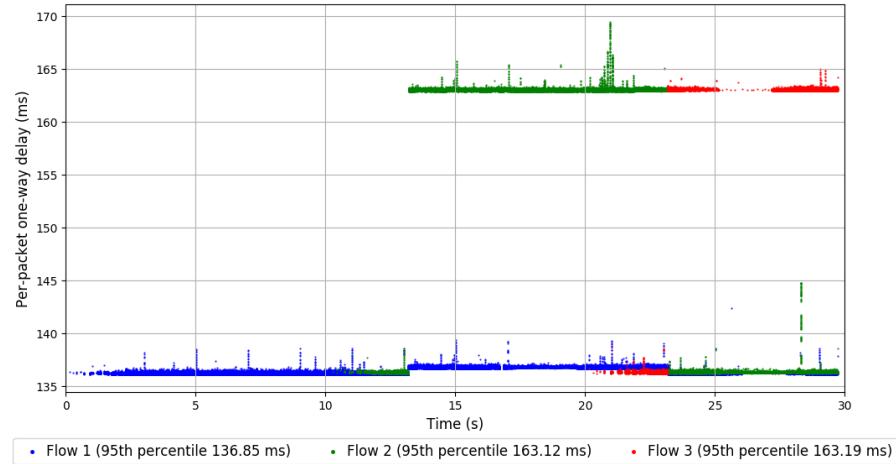
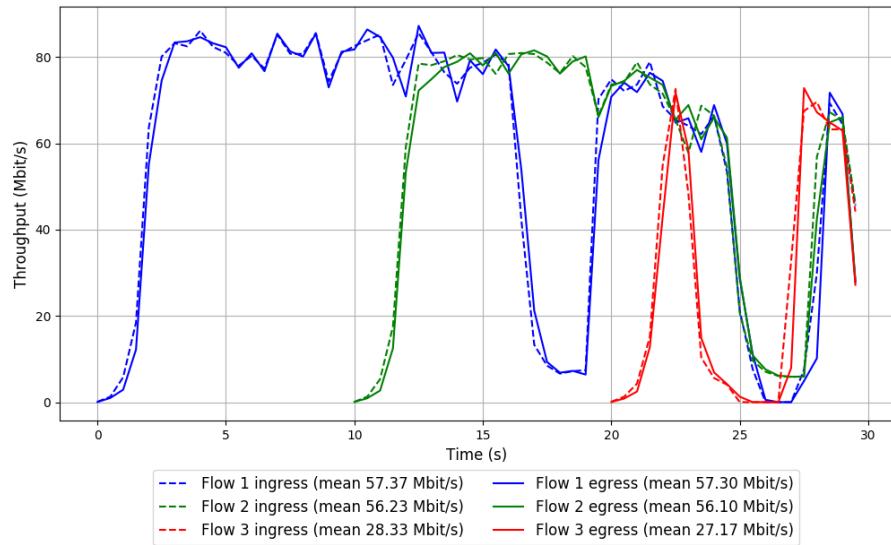
Run 7: Statistics of QUIC Cubic

Start at: 2017-12-06 11:36:47

End at: 2017-12-06 11:37:17

```
# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 103.20 Mbit/s
95th percentile per-packet one-way delay: 163.078 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 57.30 Mbit/s
95th percentile per-packet one-way delay: 136.849 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 56.10 Mbit/s
95th percentile per-packet one-way delay: 163.115 ms
Loss rate: 1.59%
-- Flow 3:
Average throughput: 27.17 Mbit/s
95th percentile per-packet one-way delay: 163.190 ms
Loss rate: 6.74%
```

Run 7: Report of QUIC Cubic — Data Link



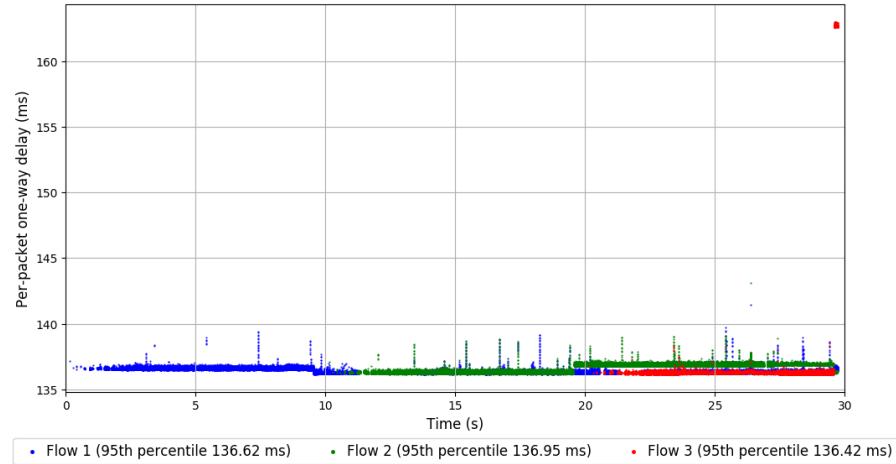
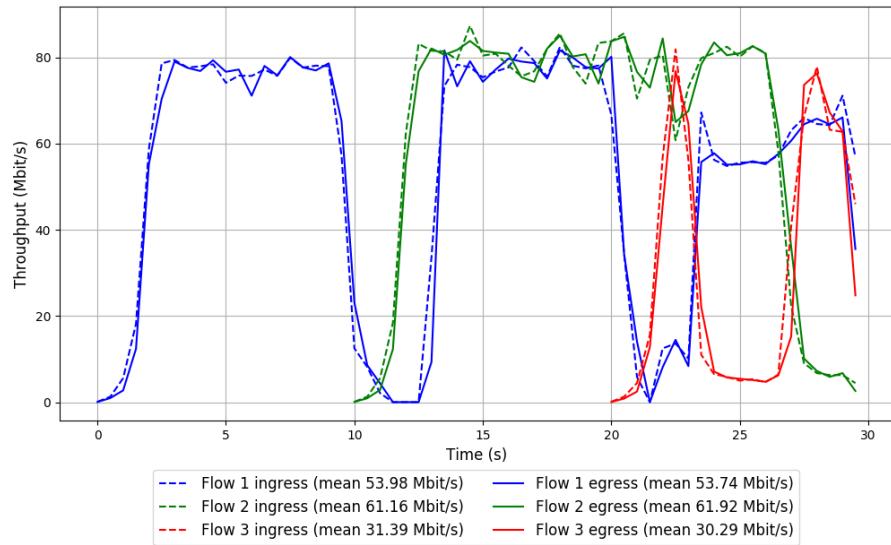
Run 8: Statistics of QUIC Cubic

Start at: 2017-12-06 11:50:21

End at: 2017-12-06 11:50:51

```
# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 104.50 Mbit/s
95th percentile per-packet one-way delay: 136.900 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 53.74 Mbit/s
95th percentile per-packet one-way delay: 136.625 ms
Loss rate: 1.36%
-- Flow 2:
Average throughput: 61.92 Mbit/s
95th percentile per-packet one-way delay: 136.951 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 30.29 Mbit/s
95th percentile per-packet one-way delay: 136.421 ms
Loss rate: 6.19%
```

Run 8: Report of QUIC Cubic — Data Link



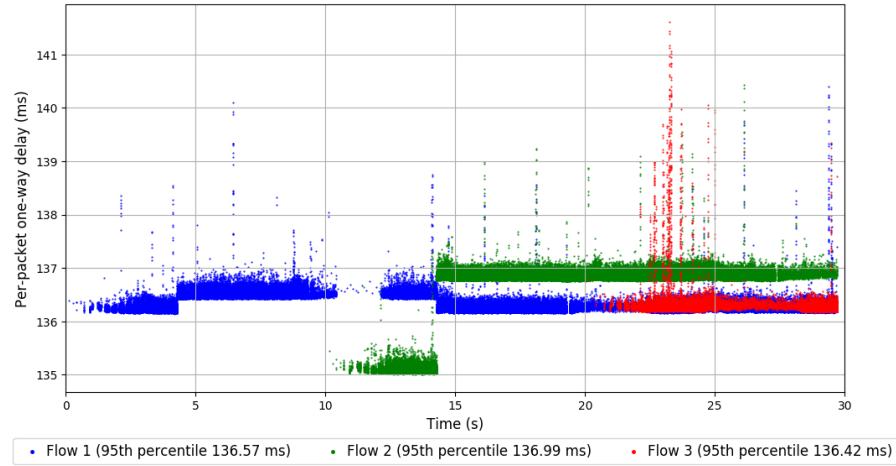
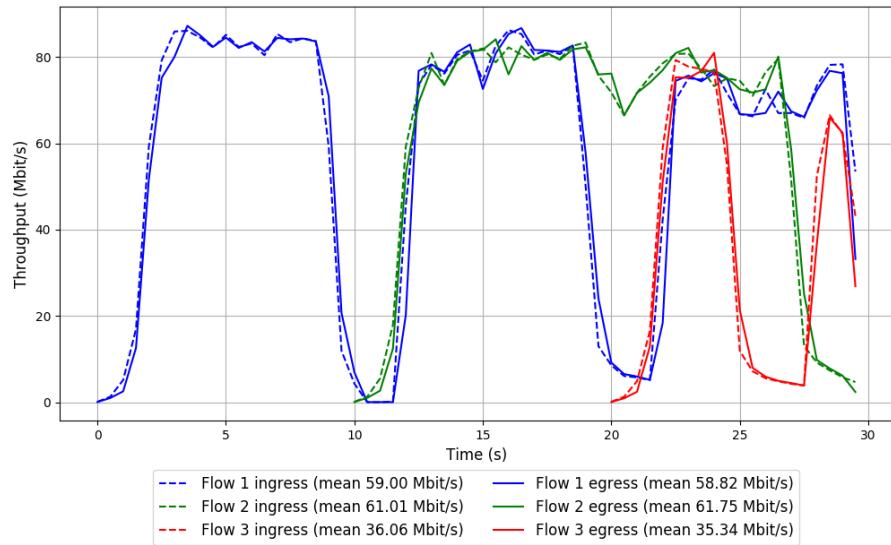
Run 9: Statistics of QUIC Cubic

Start at: 2017-12-06 12:03:36

End at: 2017-12-06 12:04:06

```
# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 111.12 Mbit/s
95th percentile per-packet one-way delay: 136.928 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 58.82 Mbit/s
95th percentile per-packet one-way delay: 136.568 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 61.75 Mbit/s
95th percentile per-packet one-way delay: 136.992 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 35.34 Mbit/s
95th percentile per-packet one-way delay: 136.421 ms
Loss rate: 4.70%
```

Run 9: Report of QUIC Cubic — Data Link



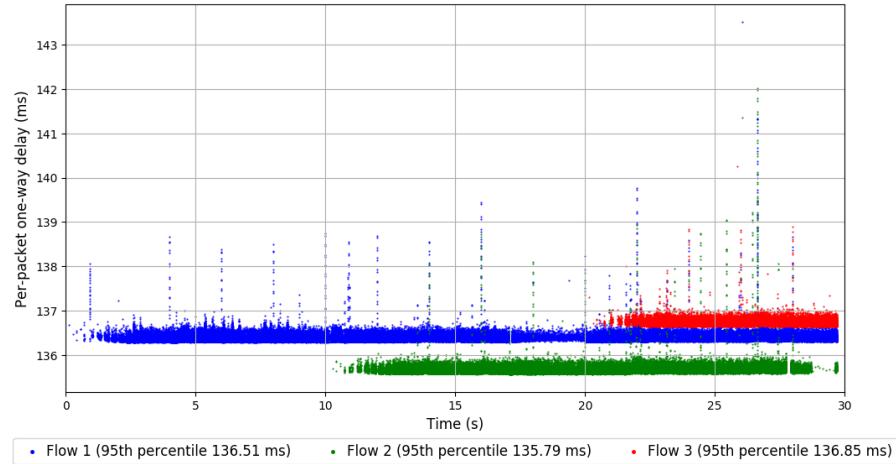
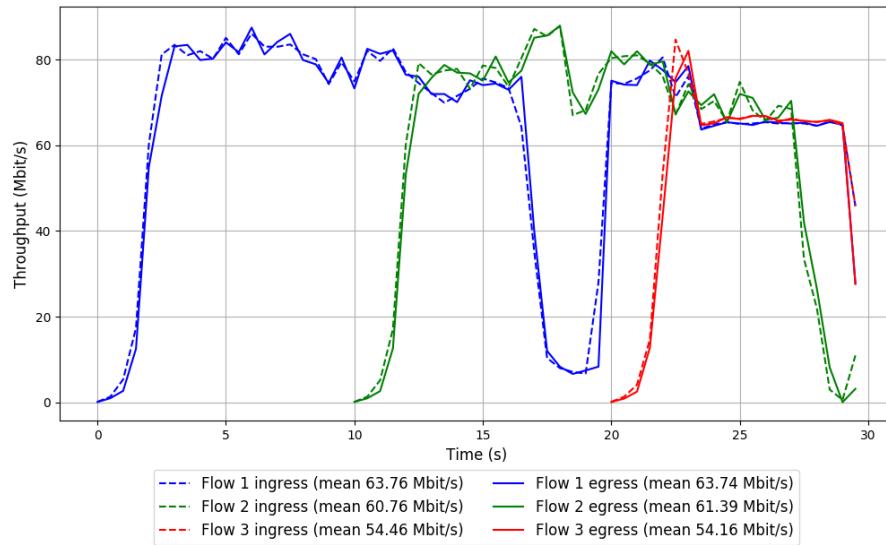
Run 10: Statistics of QUIC Cubic

Start at: 2017-12-06 12:17:04

End at: 2017-12-06 12:17:34

```
# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 121.86 Mbit/s
95th percentile per-packet one-way delay: 136.756 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 63.74 Mbit/s
95th percentile per-packet one-way delay: 136.514 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 61.39 Mbit/s
95th percentile per-packet one-way delay: 135.793 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 54.16 Mbit/s
95th percentile per-packet one-way delay: 136.851 ms
Loss rate: 3.34%
```

Run 10: Report of QUIC Cubic — Data Link

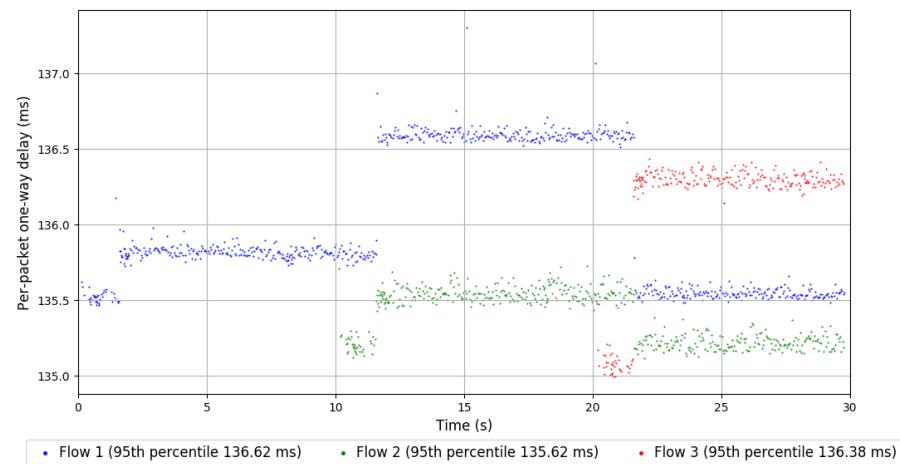
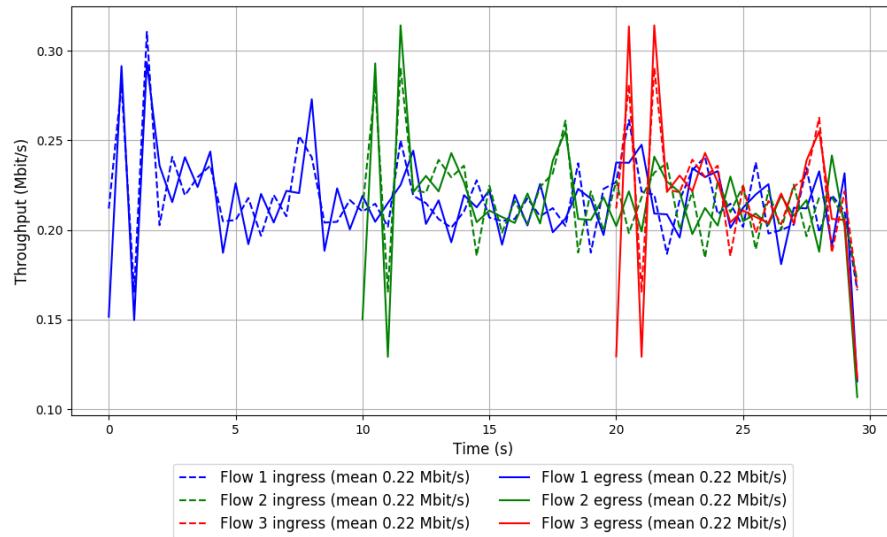


```
Run 1: Statistics of SCReAM

Start at: 2017-12-06 10:07:09
End at: 2017-12-06 10:07:39

# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 136.607 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.625 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.620 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.380 ms
Loss rate: 2.63%
```

Run 1: Report of SCReAM — Data Link



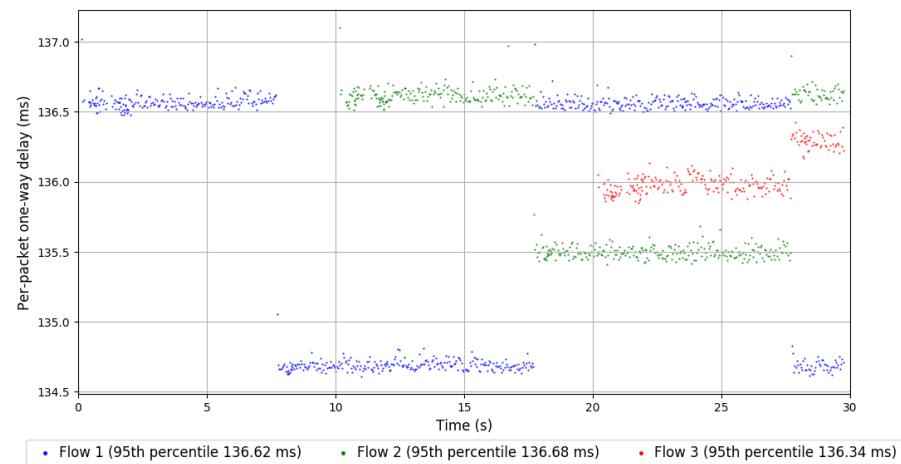
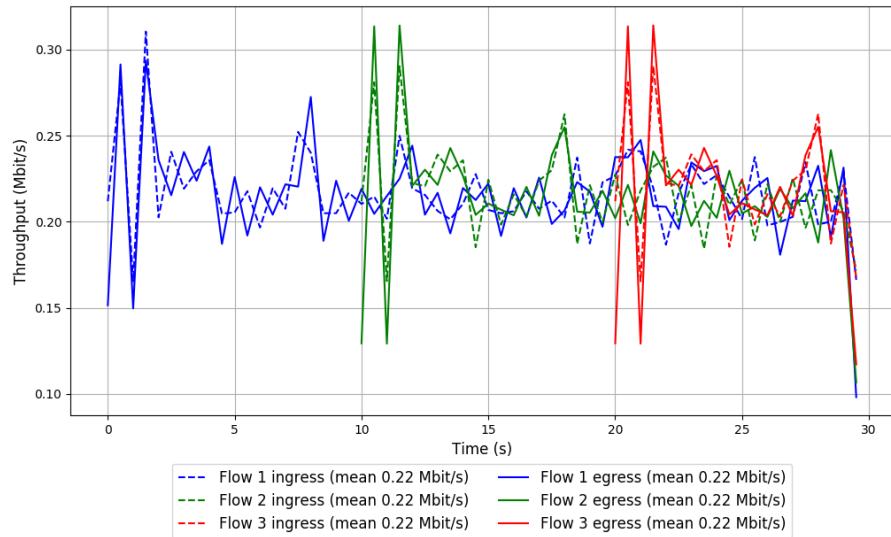
Run 2: Statistics of SCReAM

Start at: 2017-12-06 10:21:03

End at: 2017-12-06 10:21:33

```
# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 136.650 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.620 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.679 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.337 ms
Loss rate: 2.63%
```

Run 2: Report of SCReAM — Data Link



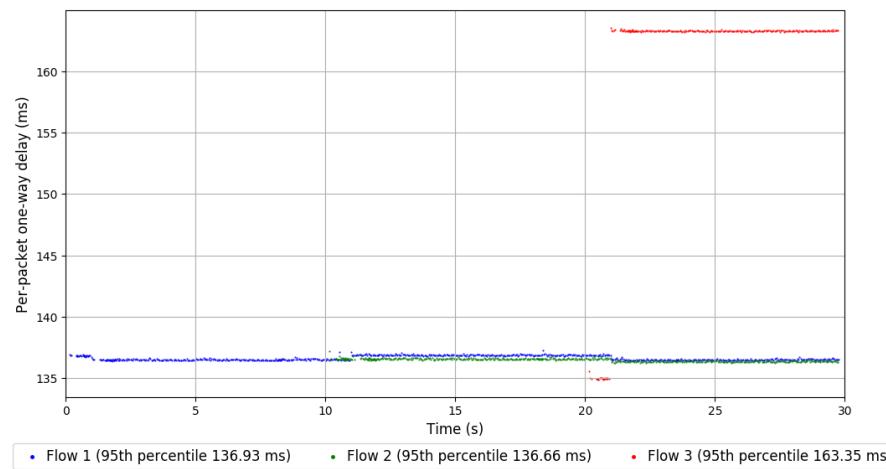
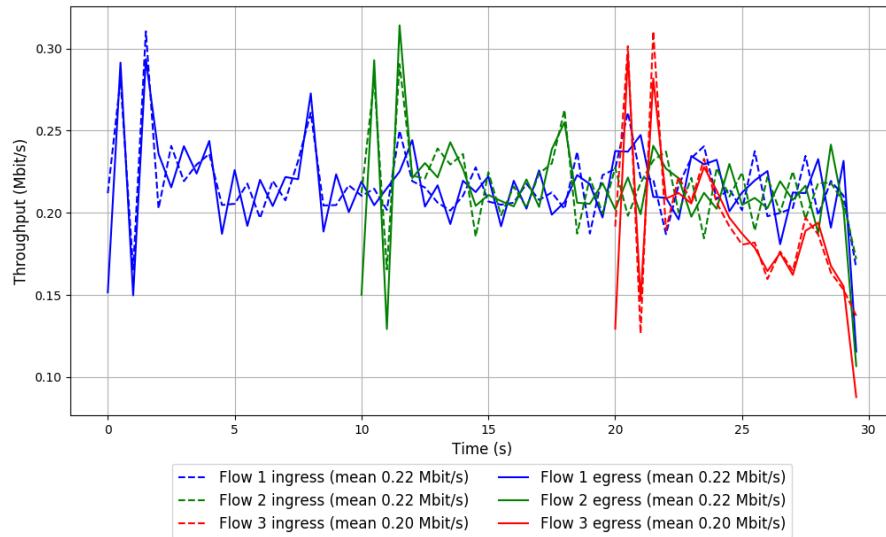
Run 3: Statistics of SCReAM

Start at: 2017-12-06 10:34:50

End at: 2017-12-06 10:35:20

```
# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 163.297 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.931 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.658 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 163.349 ms
Loss rate: 2.57%
```

Run 3: Report of SCReAM — Data Link



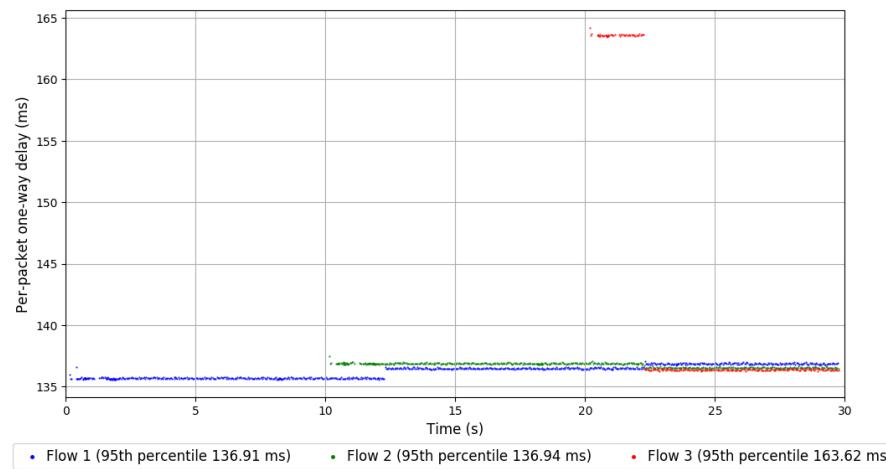
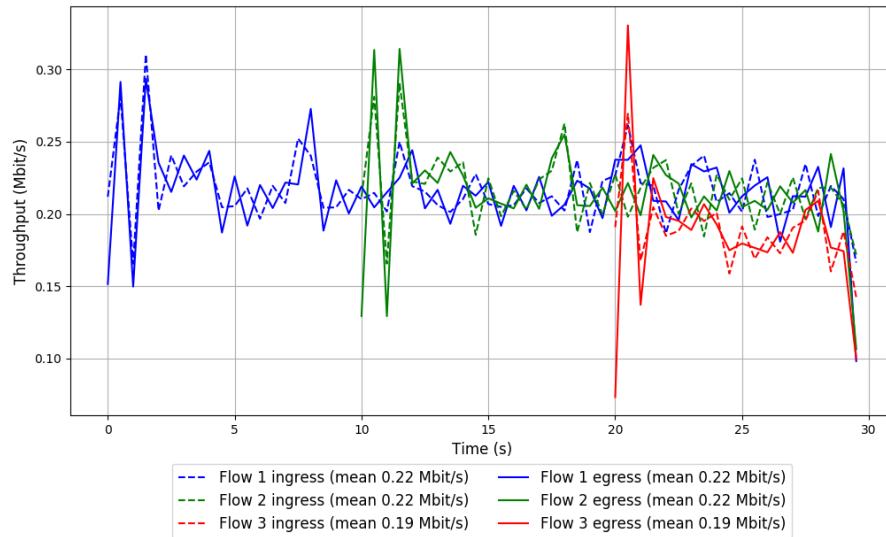
Run 4: Statistics of SCReAM

Start at: 2017-12-06 10:48:18

End at: 2017-12-06 10:48:48

```
# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 136.955 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.907 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.941 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 163.623 ms
Loss rate: 2.62%
```

Run 4: Report of SCReAM — Data Link



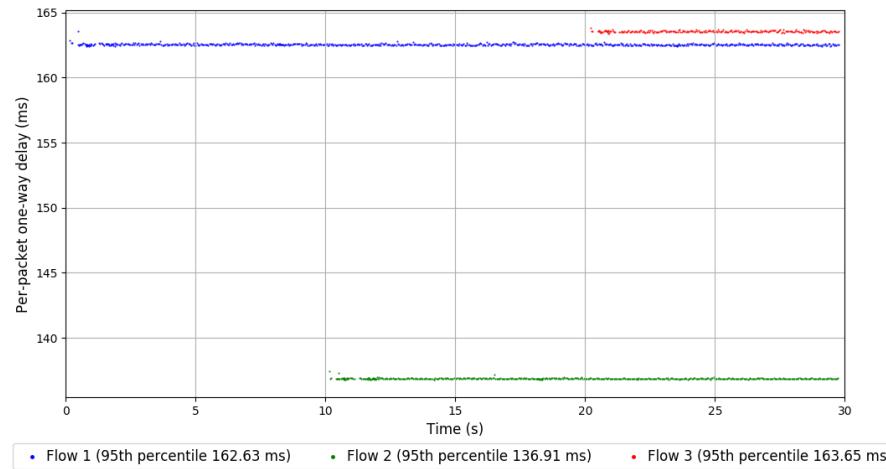
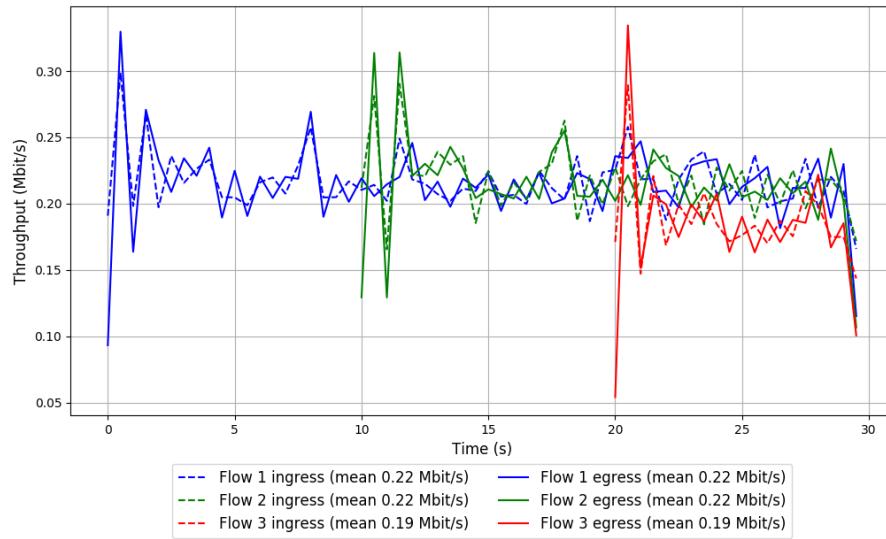
Run 5: Statistics of SCReAM

Start at: 2017-12-06 11:02:07

End at: 2017-12-06 11:02:37

```
# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 163.569 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 162.632 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.915 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 163.649 ms
Loss rate: 2.69%
```

Run 5: Report of SCReAM — Data Link



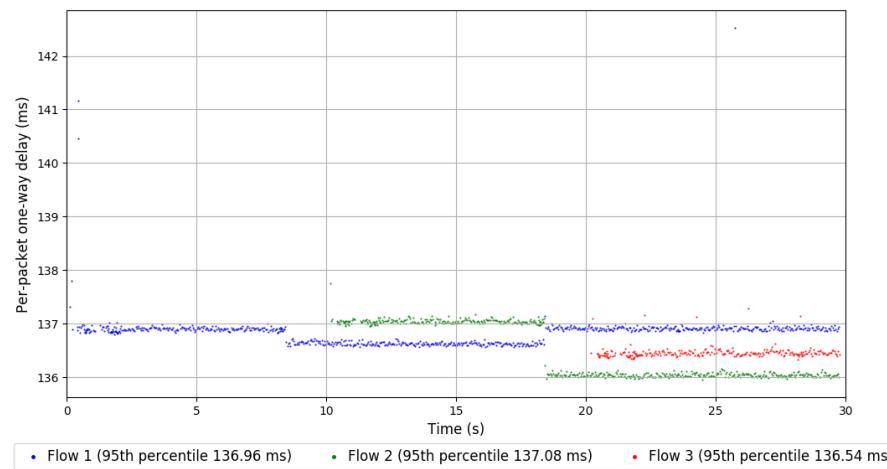
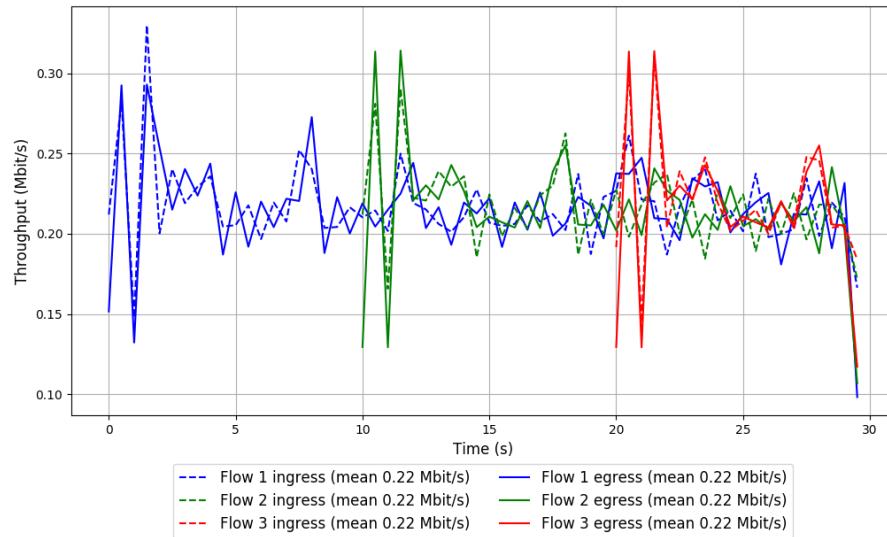
Run 6: Statistics of SCReAM

Start at: 2017-12-06 11:15:42

End at: 2017-12-06 11:16:12

```
# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 137.060 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.962 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.083 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.539 ms
Loss rate: 2.63%
```

Run 6: Report of SCReAM — Data Link



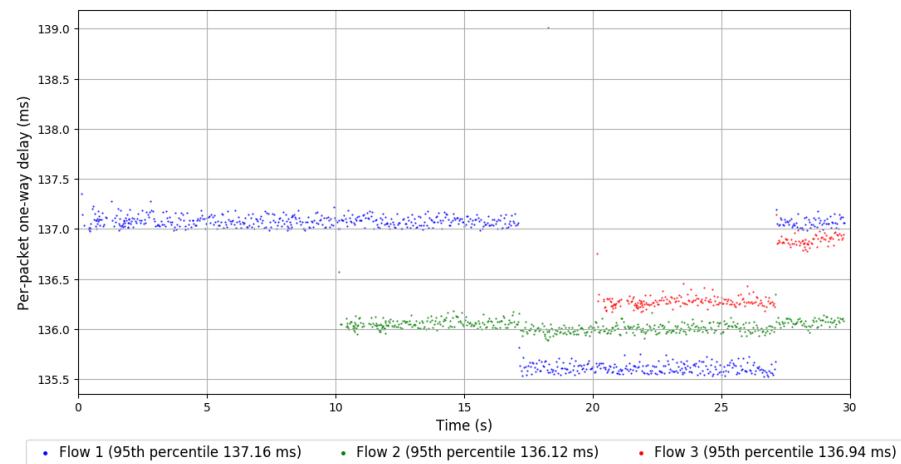
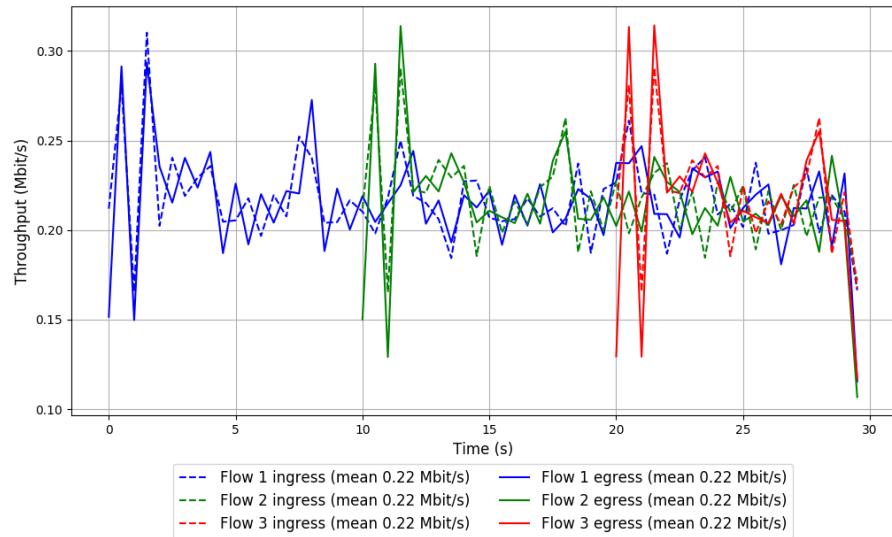
Run 7: Statistics of SCReAM

Start at: 2017-12-06 11:29:03

End at: 2017-12-06 11:29:34

```
# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 137.137 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.159 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.118 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.937 ms
Loss rate: 2.63%
```

Run 7: Report of SCReAM — Data Link



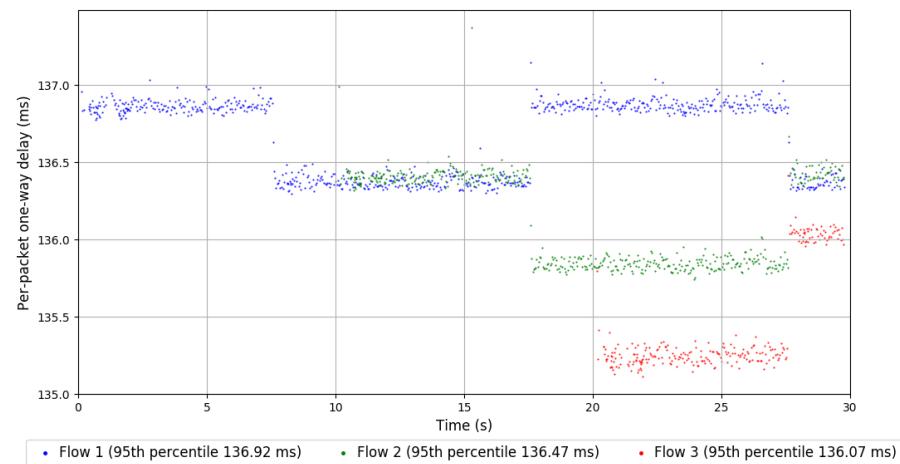
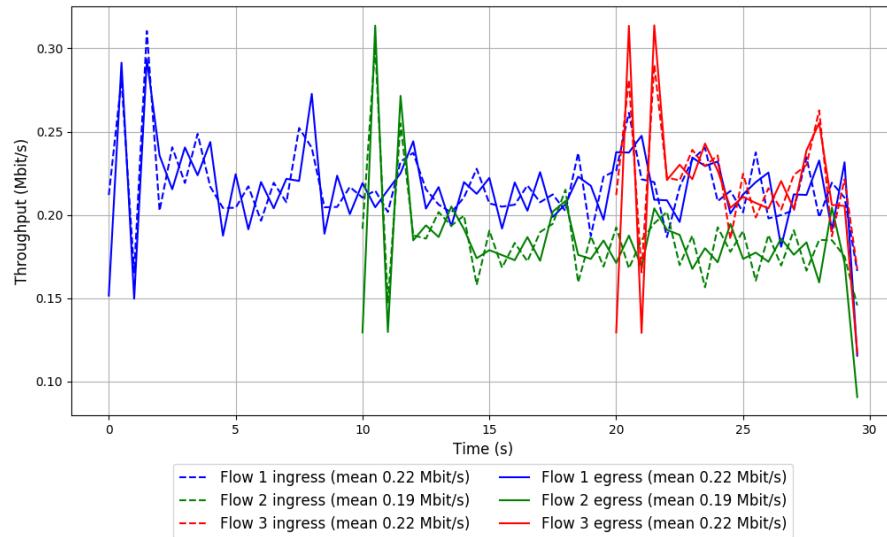
Run 8: Statistics of SCReAM

Start at: 2017-12-06 11:42:53

End at: 2017-12-06 11:43:23

```
# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 136.902 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.923 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 136.466 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.067 ms
Loss rate: 2.63%
```

Run 8: Report of SCReAM — Data Link



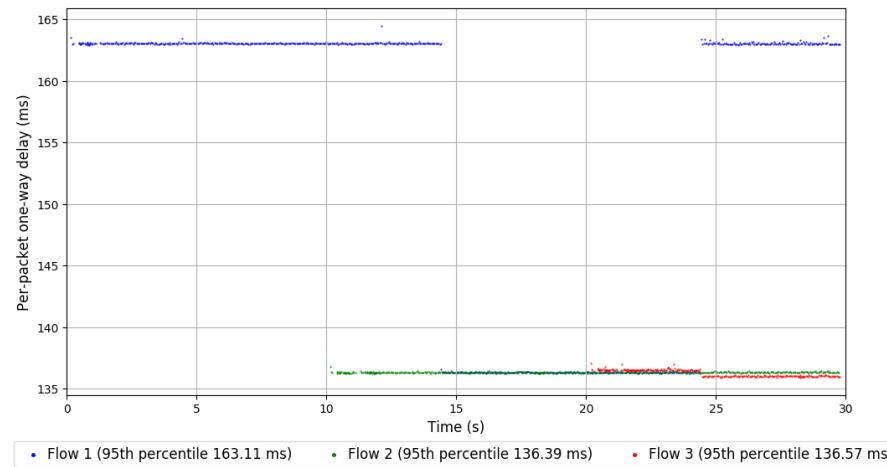
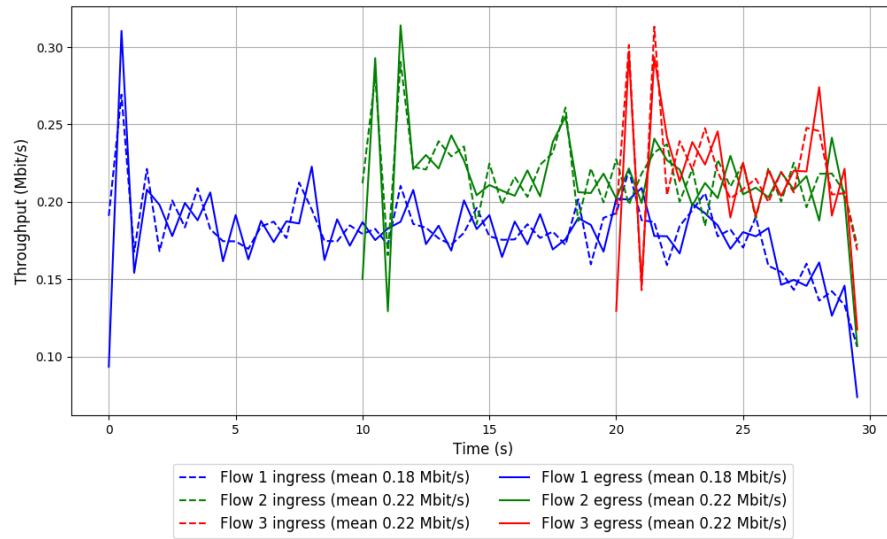
Run 9: Statistics of SCReAM

Start at: 2017-12-06 11:56:06

End at: 2017-12-06 11:56:36

```
# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 163.082 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 163.107 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.388 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.571 ms
Loss rate: 2.29%
```

Run 9: Report of SCReAM — Data Link



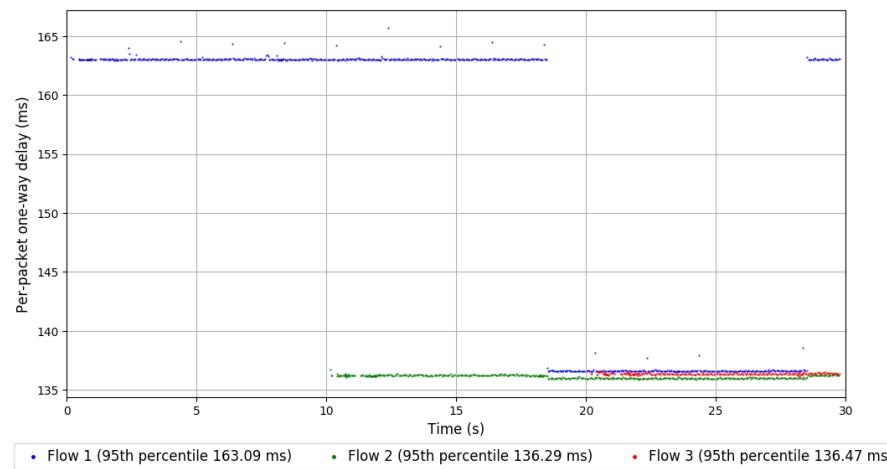
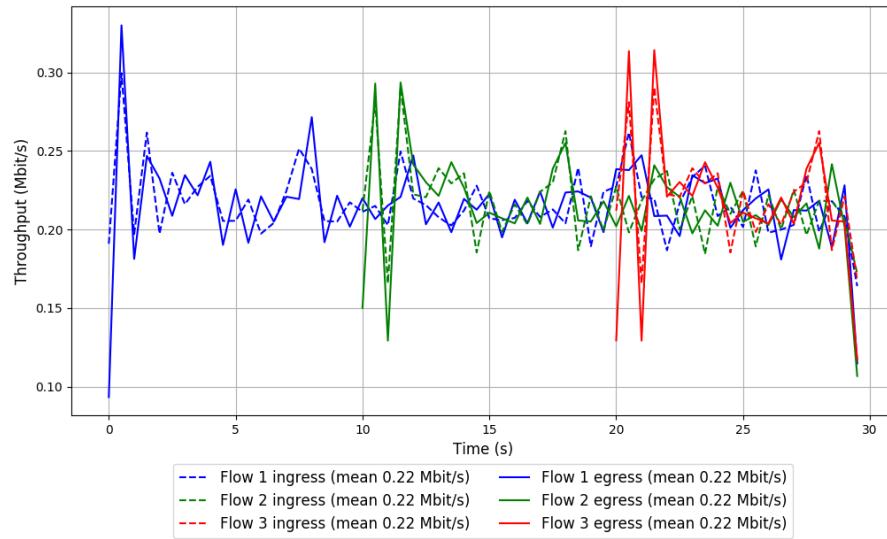
Run 10: Statistics of SCReAM

Start at: 2017-12-06 12:09:32

End at: 2017-12-06 12:10:02

```
# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 163.062 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 163.085 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.294 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.466 ms
Loss rate: 2.63%
```

Run 10: Report of SCReAM — Data Link

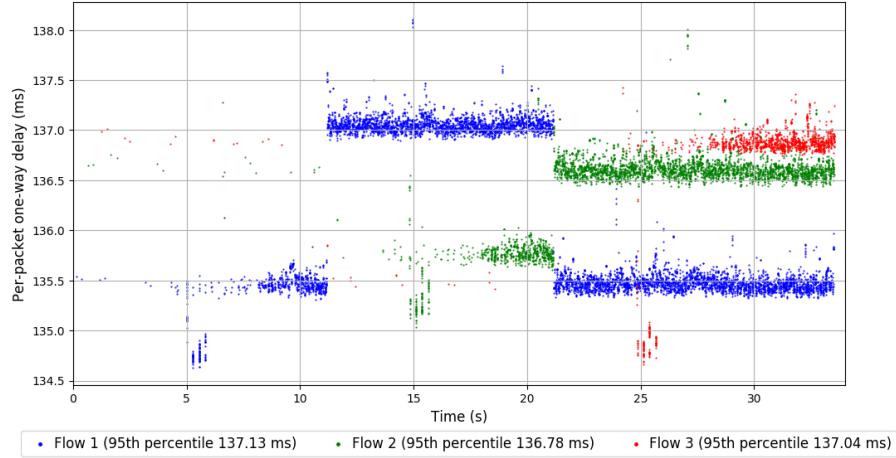
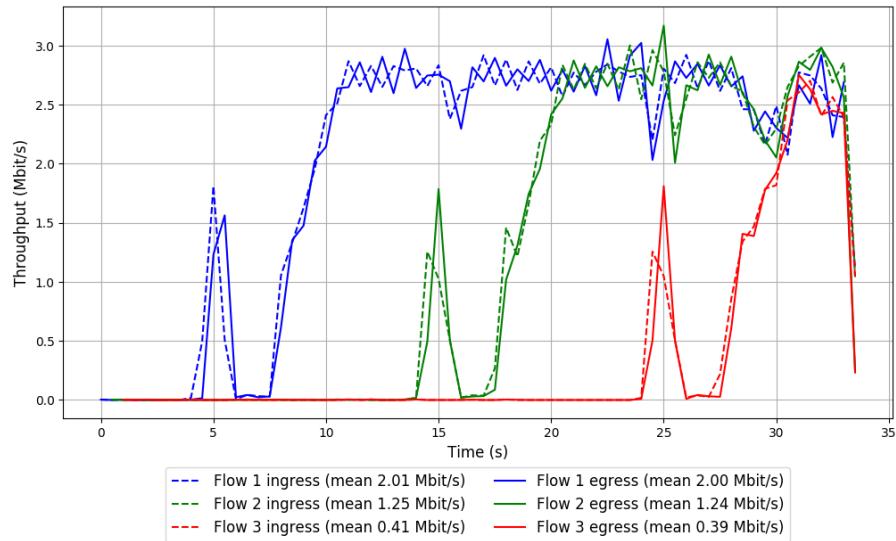


```
Run 1: Statistics of WebRTC media

Start at: 2017-12-06 10:14:03
End at: 2017-12-06 10:14:33

# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.59 Mbit/s
95th percentile per-packet one-way delay: 137.105 ms
Loss rate: 2.00%
-- Flow 1:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 137.135 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 1.24 Mbit/s
95th percentile per-packet one-way delay: 136.781 ms
Loss rate: 2.21%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 137.037 ms
Loss rate: 5.65%
```

Run 1: Report of WebRTC media — Data Link



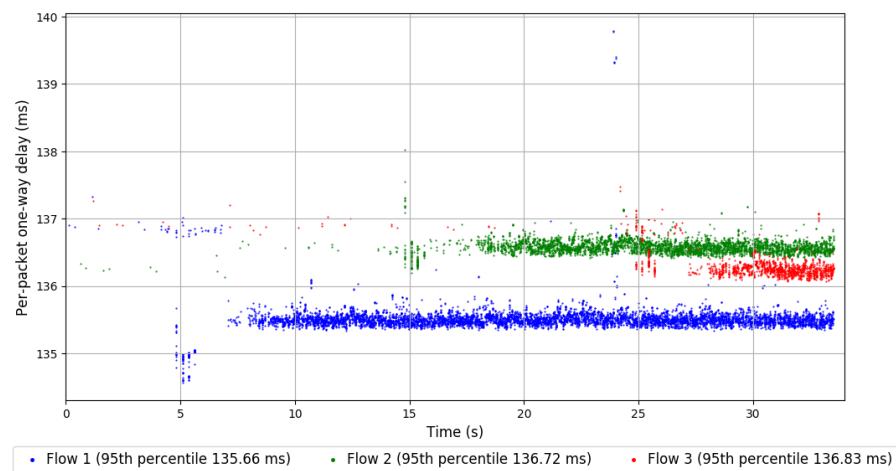
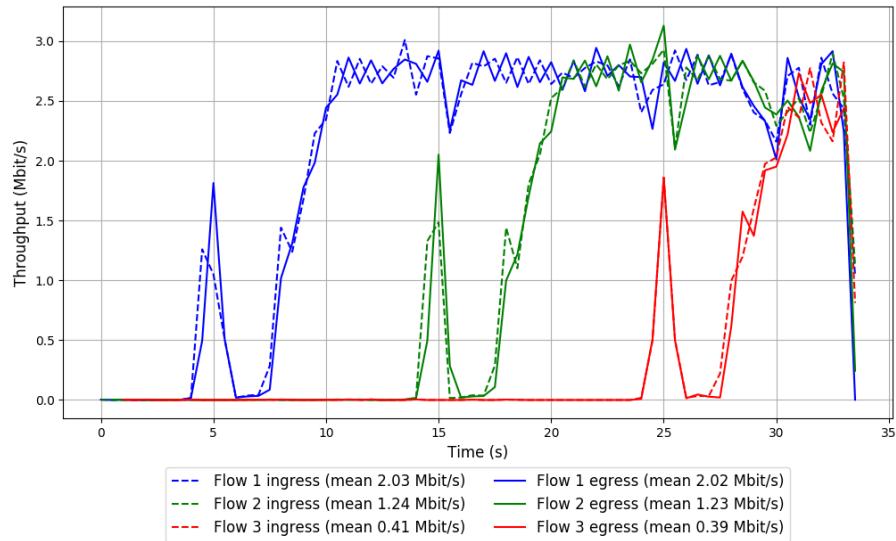
Run 2: Statistics of WebRTC media

Start at: 2017-12-06 10:27:47

End at: 2017-12-06 10:28:17

```
# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.60 Mbit/s
95th percentile per-packet one-way delay: 136.683 ms
Loss rate: 2.02%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 135.659 ms
Loss rate: 1.26%
-- Flow 2:
Average throughput: 1.23 Mbit/s
95th percentile per-packet one-way delay: 136.725 ms
Loss rate: 1.97%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 136.830 ms
Loss rate: 6.01%
```

Run 2: Report of WebRTC media — Data Link

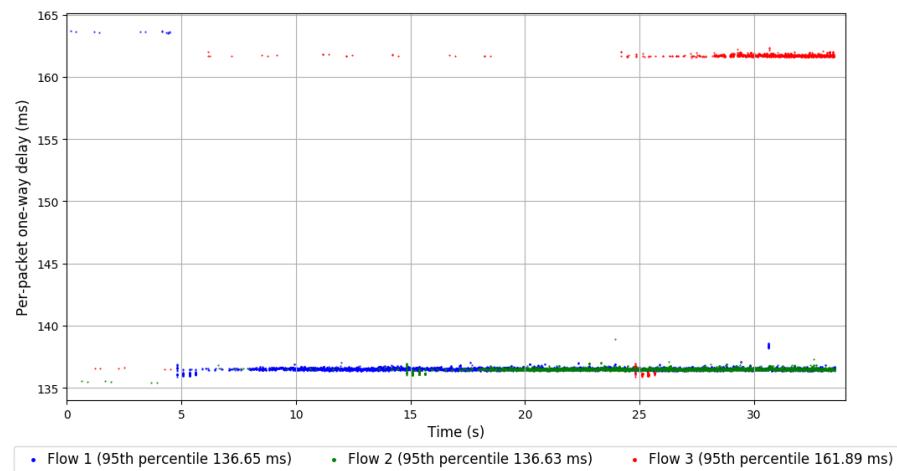
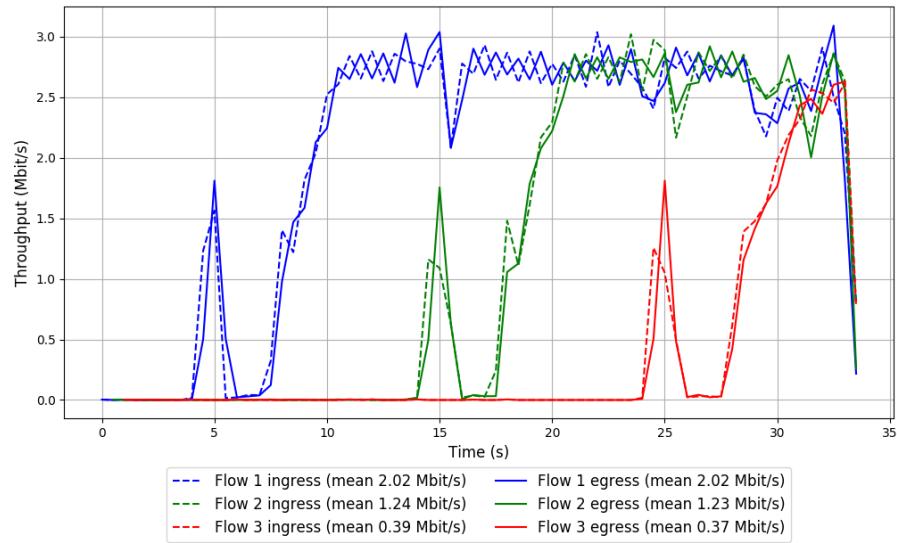


```
Run 3: Statistics of WebRTC media

Start at: 2017-12-06 10:41:30
End at: 2017-12-06 10:42:00

# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.59 Mbit/s
95th percentile per-packet one-way delay: 161.700 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 136.646 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 1.23 Mbit/s
95th percentile per-packet one-way delay: 136.635 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 161.886 ms
Loss rate: 5.93%
```

Run 3: Report of WebRTC media — Data Link



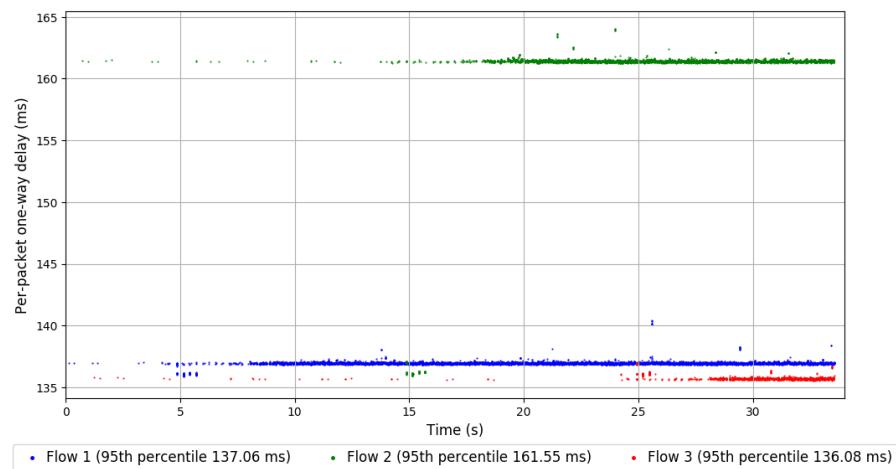
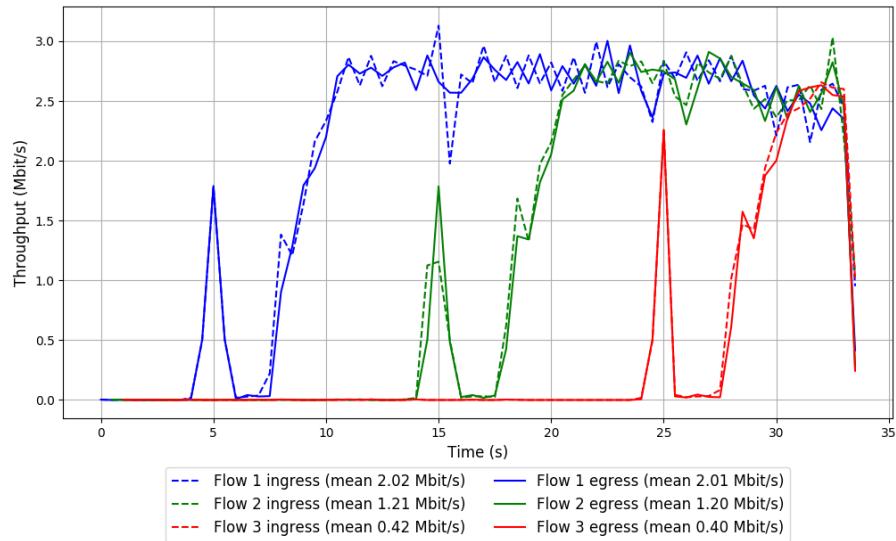
Run 4: Statistics of WebRTC media

Start at: 2017-12-06 10:55:17

End at: 2017-12-06 10:55:47

```
# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.58 Mbit/s
95th percentile per-packet one-way delay: 161.479 ms
Loss rate: 1.87%
-- Flow 1:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 137.056 ms
Loss rate: 1.18%
-- Flow 2:
Average throughput: 1.20 Mbit/s
95th percentile per-packet one-way delay: 161.554 ms
Loss rate: 1.88%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 136.084 ms
Loss rate: 5.30%
```

Run 4: Report of WebRTC media — Data Link



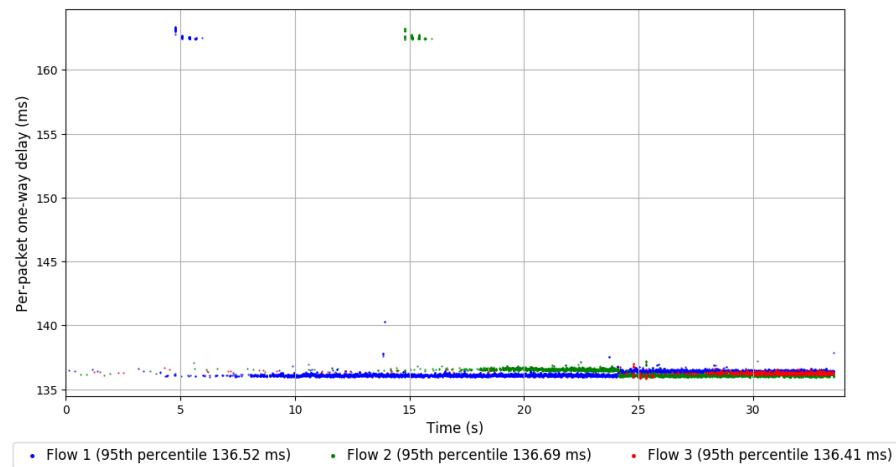
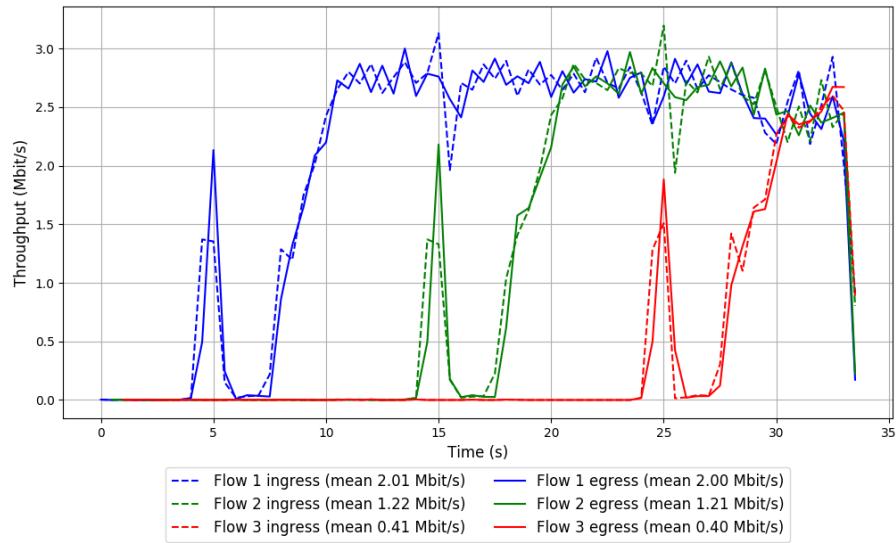
Run 5: Statistics of WebRTC media

Start at: 2017-12-06 11:09:10

End at: 2017-12-06 11:09:40

```
# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.58 Mbit/s
95th percentile per-packet one-way delay: 136.629 ms
Loss rate: 1.75%
-- Flow 1:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 136.523 ms
Loss rate: 1.18%
-- Flow 2:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 136.692 ms
Loss rate: 1.60%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 136.413 ms
Loss rate: 5.08%
```

Run 5: Report of WebRTC media — Data Link

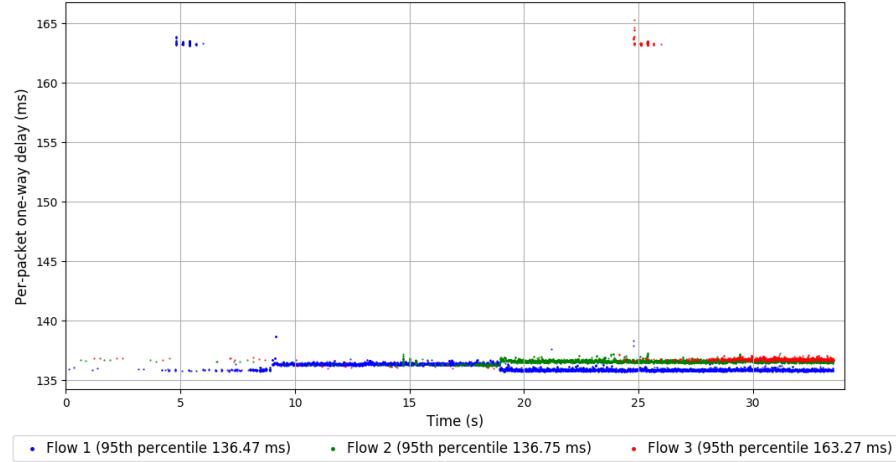
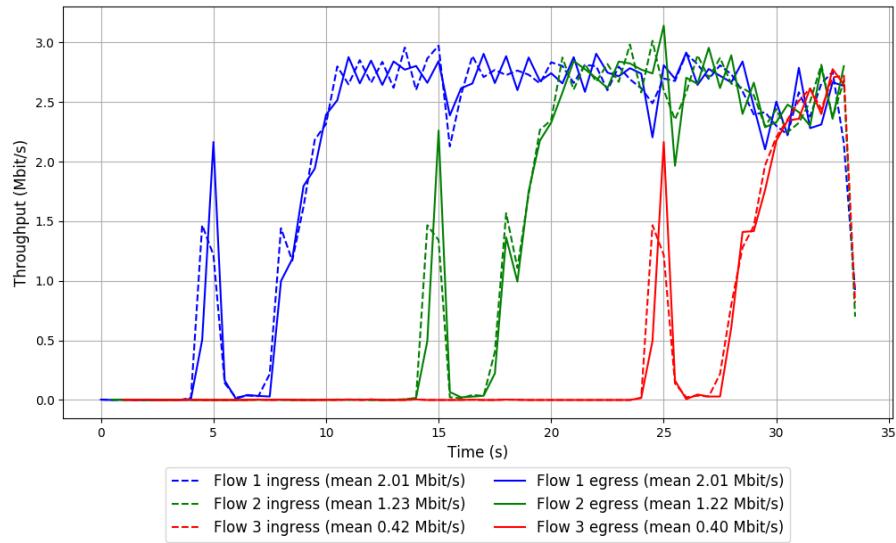


```
Run 6: Statistics of WebRTC media

Start at: 2017-12-06 11:22:35
End at: 2017-12-06 11:23:05

# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.59 Mbit/s
95th percentile per-packet one-way delay: 136.806 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 136.466 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 136.748 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 163.273 ms
Loss rate: 5.77%
```

Run 6: Report of WebRTC media — Data Link

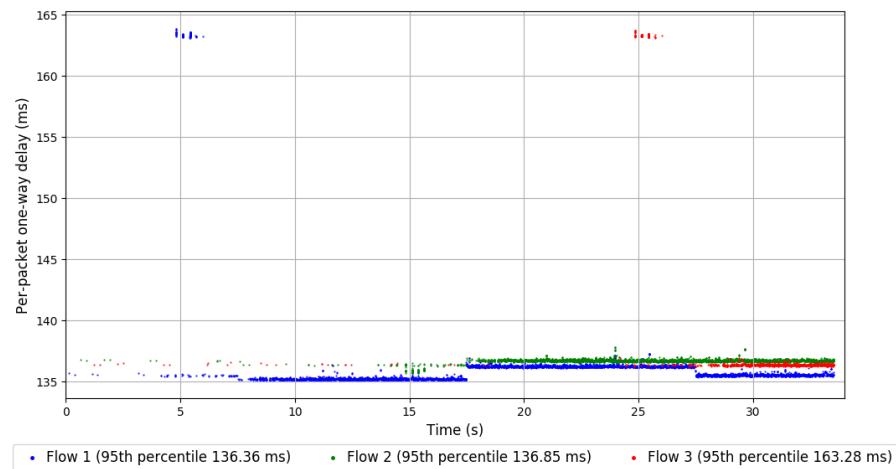
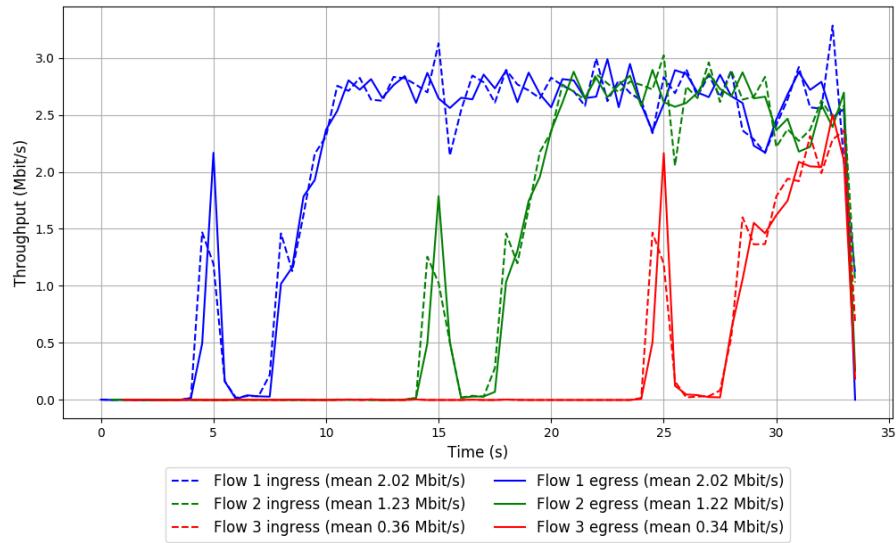


```
Run 7: Statistics of WebRTC media

Start at: 2017-12-06 11:35:57
End at: 2017-12-06 11:36:27

# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.55 Mbit/s
95th percentile per-packet one-way delay: 136.827 ms
Loss rate: 1.88%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 136.358 ms
Loss rate: 1.26%
-- Flow 2:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 136.854 ms
Loss rate: 1.99%
-- Flow 3:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 163.277 ms
Loss rate: 5.16%
```

Run 7: Report of WebRTC media — Data Link



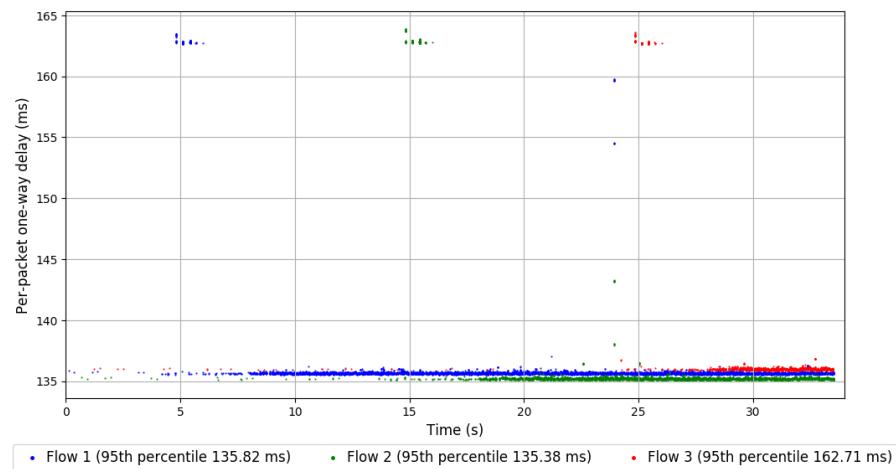
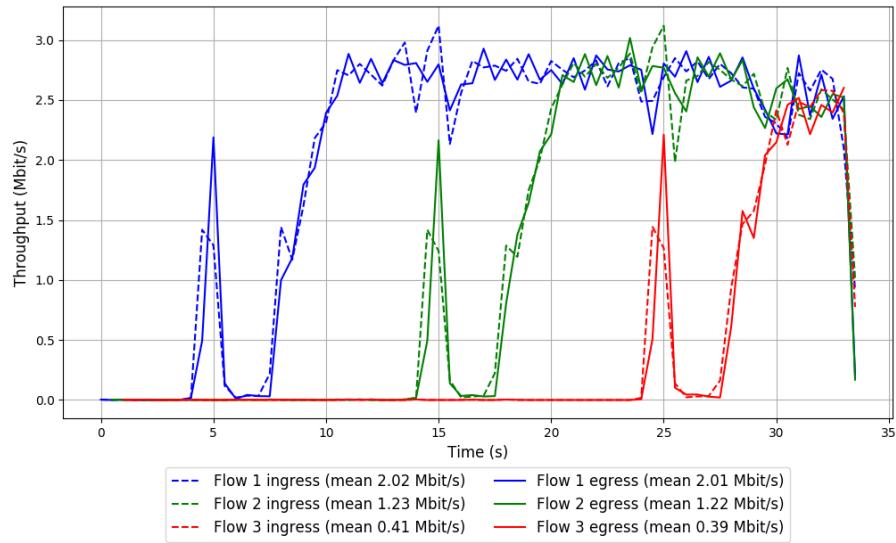
Run 8: Statistics of WebRTC media

Start at: 2017-12-06 11:49:32

End at: 2017-12-06 11:50:02

```
# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.59 Mbit/s
95th percentile per-packet one-way delay: 136.048 ms
Loss rate: 1.76%
-- Flow 1:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 135.817 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 135.382 ms
Loss rate: 1.79%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 162.706 ms
Loss rate: 5.58%
```

Run 8: Report of WebRTC media — Data Link



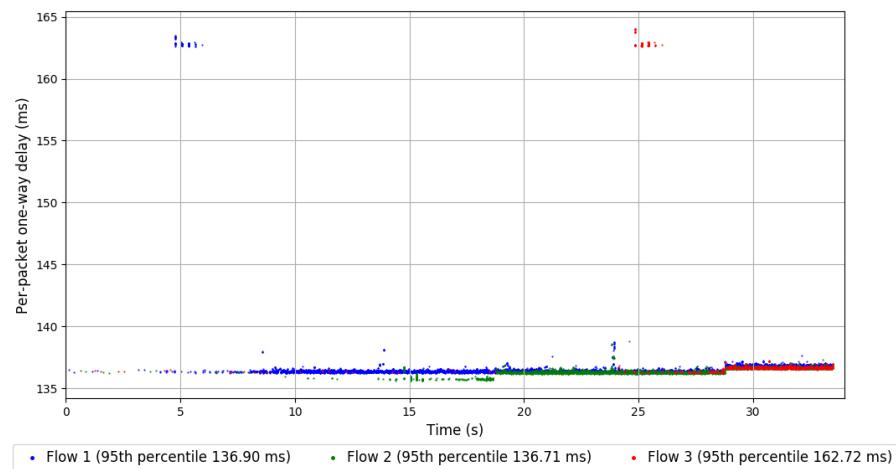
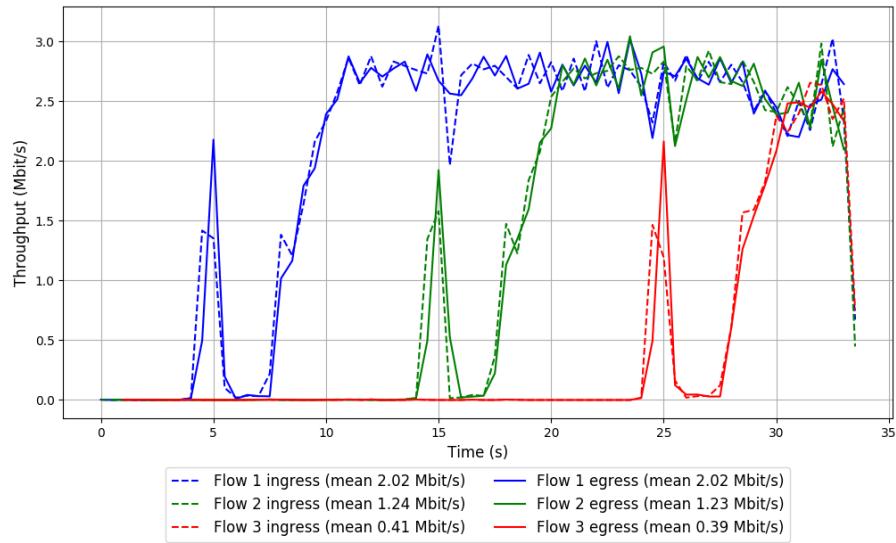
Run 9: Statistics of WebRTC media

Start at: 2017-12-06 12:02:46

End at: 2017-12-06 12:03:16

```
# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.60 Mbit/s
95th percentile per-packet one-way delay: 136.871 ms
Loss rate: 1.75%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 136.901 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 1.23 Mbit/s
95th percentile per-packet one-way delay: 136.705 ms
Loss rate: 1.58%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 162.724 ms
Loss rate: 5.71%
```

Run 9: Report of WebRTC media — Data Link

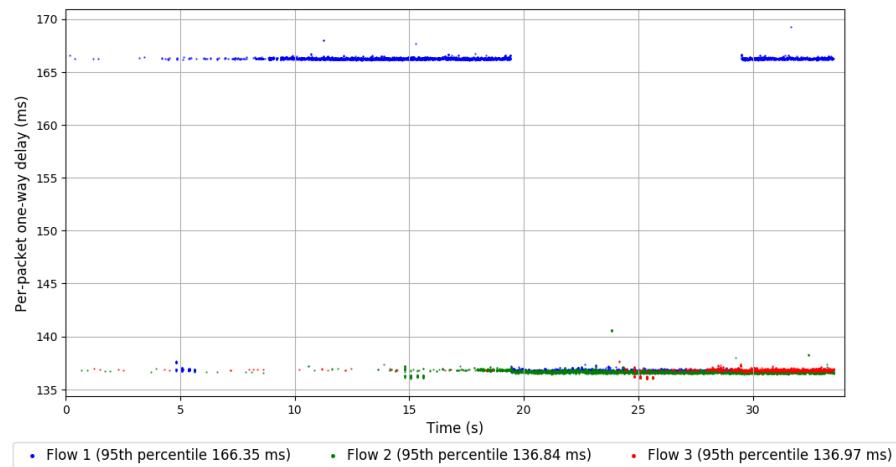
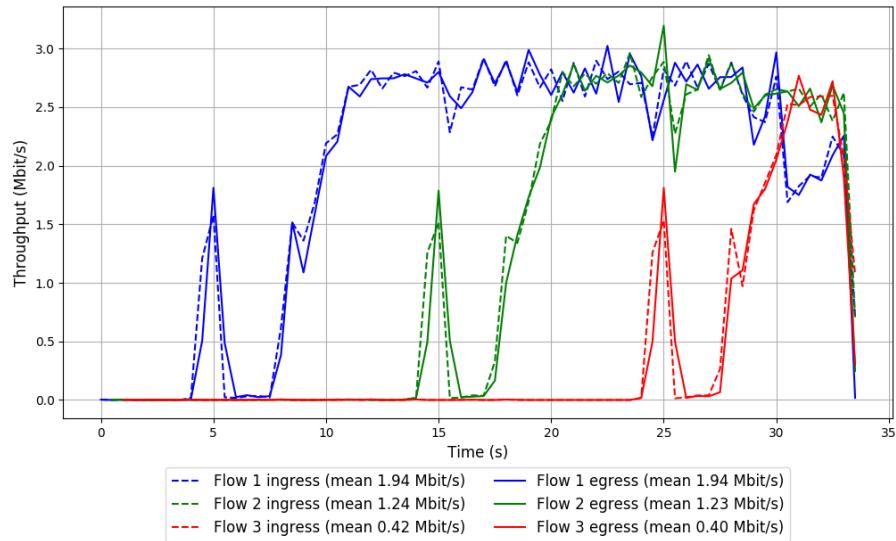


```
Run 10: Statistics of WebRTC media

Start at: 2017-12-06 12:16:15
End at: 2017-12-06 12:16:45

# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.54 Mbit/s
95th percentile per-packet one-way delay: 166.312 ms
Loss rate: 1.69%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 166.348 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 1.23 Mbit/s
95th percentile per-packet one-way delay: 136.842 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 136.975 ms
Loss rate: 5.62%
```

Run 10: Report of WebRTC media — Data Link



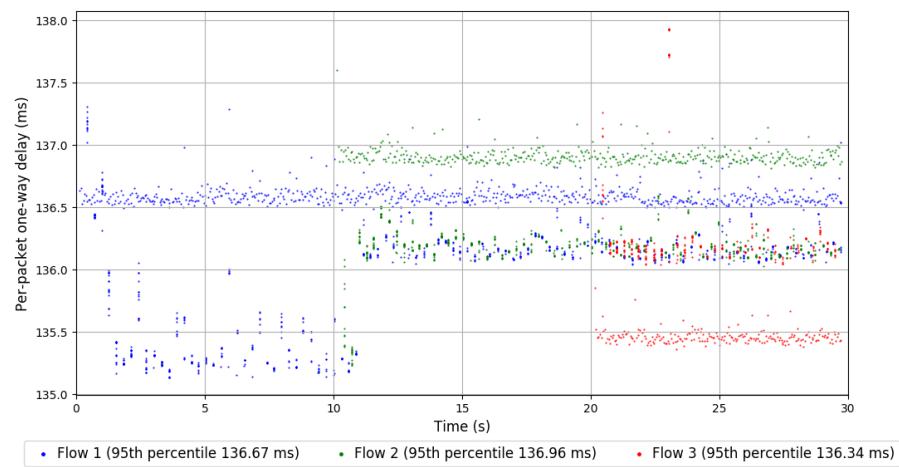
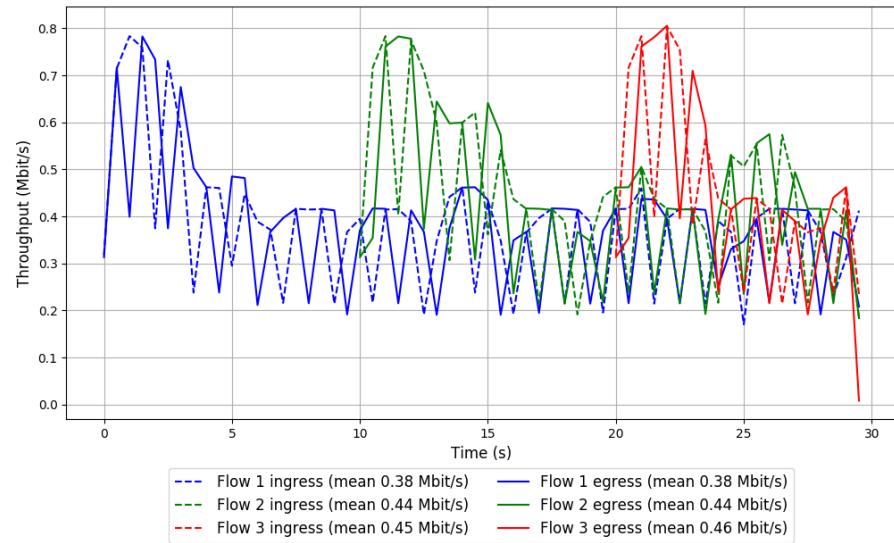
Run 1: Statistics of Sprout

Start at: 2017-12-06 10:15:49

End at: 2017-12-06 10:16:19

```
# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.82 Mbit/s
95th percentile per-packet one-way delay: 136.925 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 136.666 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.961 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 136.341 ms
Loss rate: 2.59%
```

Run 1: Report of Sprout — Data Link



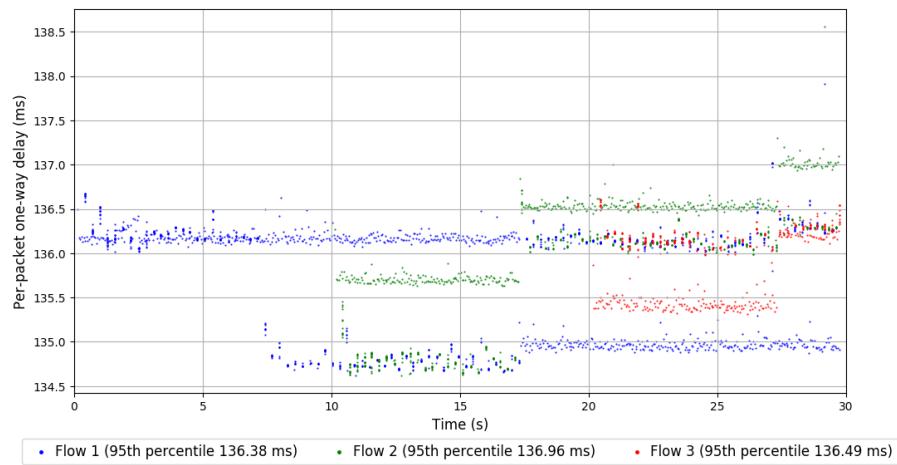
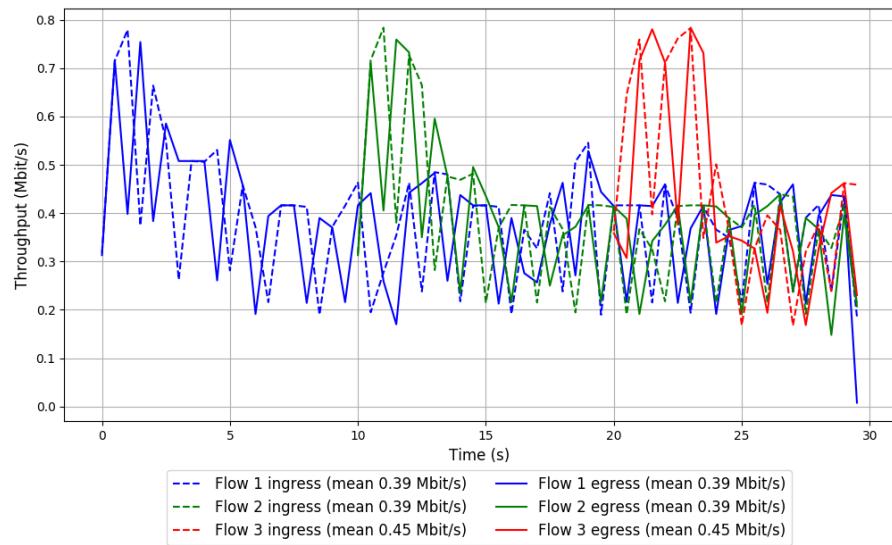
Run 2: Statistics of Sprout

Start at: 2017-12-06 10:29:33

End at: 2017-12-06 10:30:03

```
# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.79 Mbit/s
95th percentile per-packet one-way delay: 136.549 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 136.381 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 136.964 ms
Loss rate: 1.35%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 136.490 ms
Loss rate: 2.60%
```

Run 2: Report of Sprout — Data Link

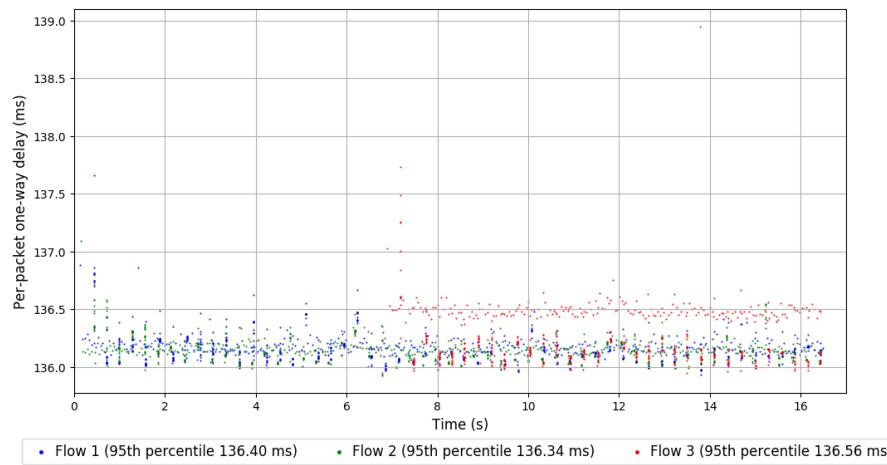
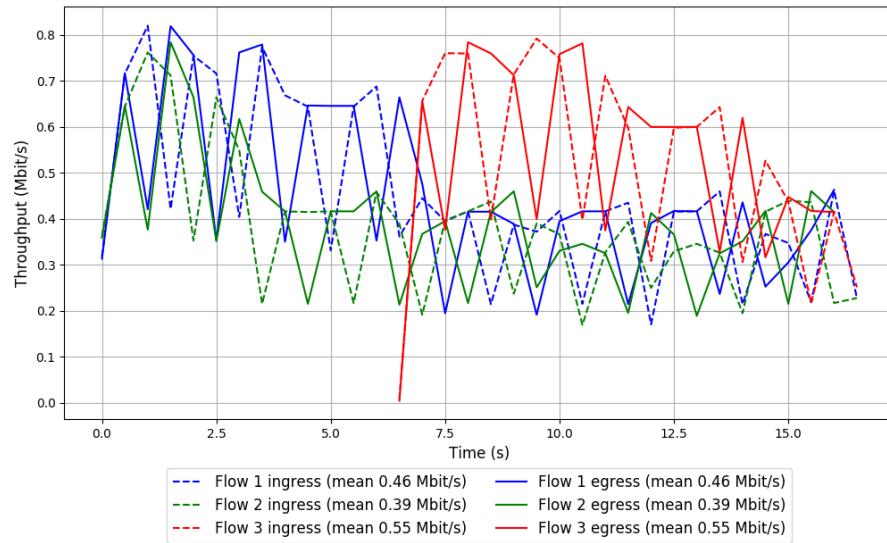


Run 3: Statistics of Sprout

Start at: 2017-12-06 10:43:16

End at: 2017-12-06 10:43:46

Run 3: Report of Sprout — Data Link



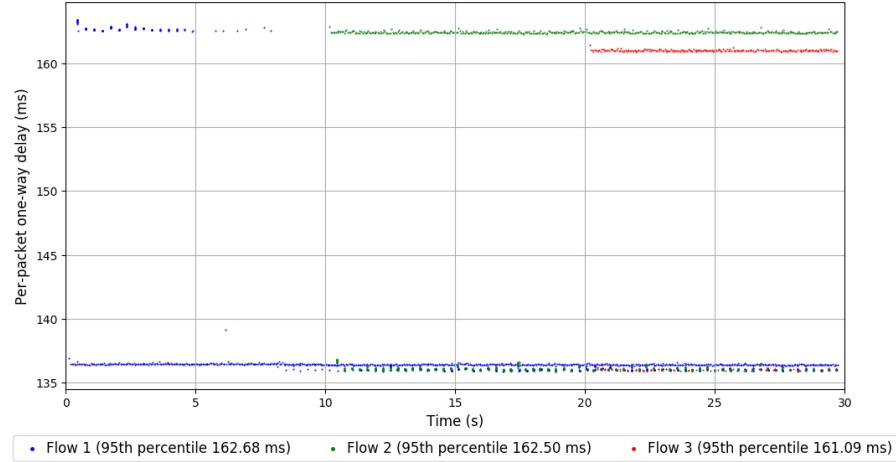
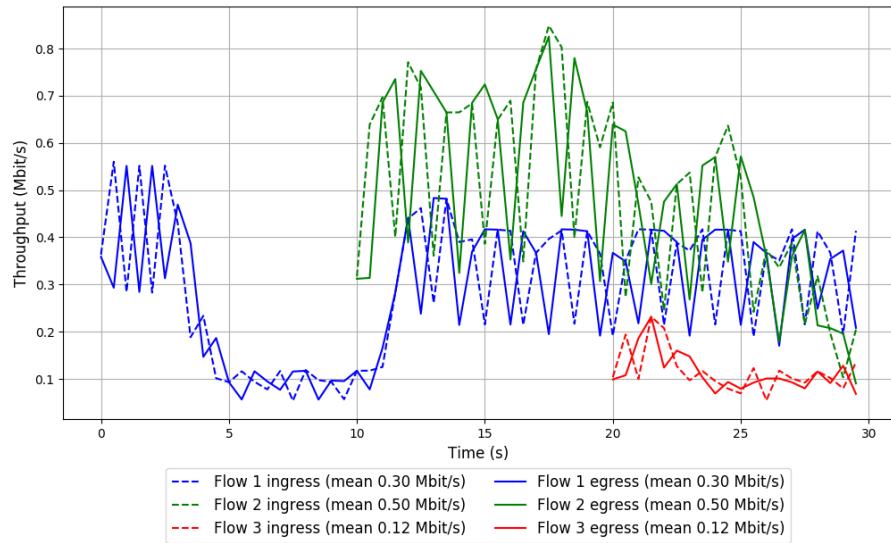
Run 4: Statistics of Sprout

Start at: 2017-12-06 10:57:02

End at: 2017-12-06 10:57:32

```
# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 162.557 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 162.683 ms
Loss rate: 1.18%
-- Flow 2:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 162.499 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 161.088 ms
Loss rate: 3.05%
```

Run 4: Report of Sprout — Data Link

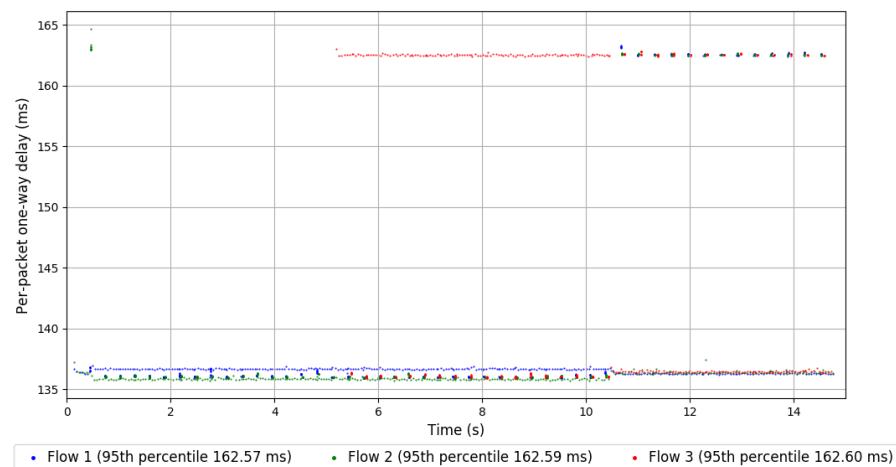
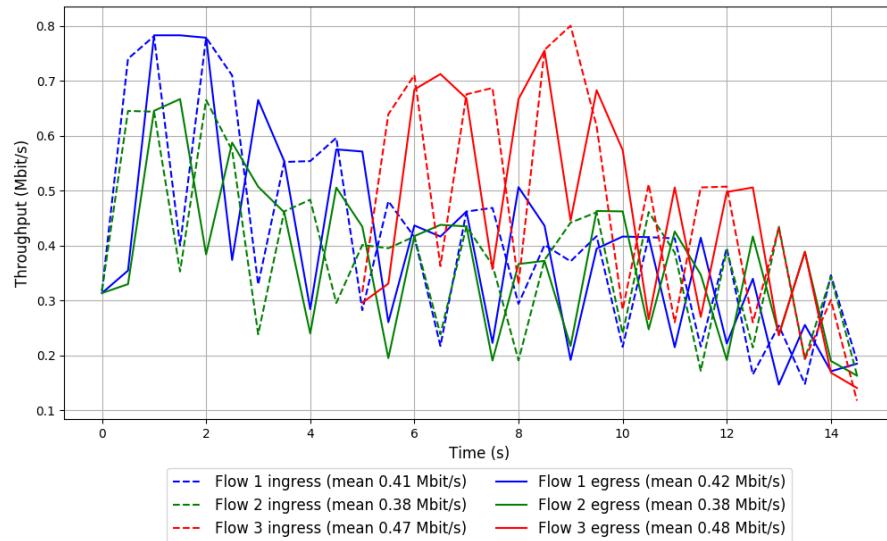


Run 5: Statistics of Sprout

Start at: 2017-12-06 11:10:55

End at: 2017-12-06 11:11:25

Run 5: Report of Sprout — Data Link



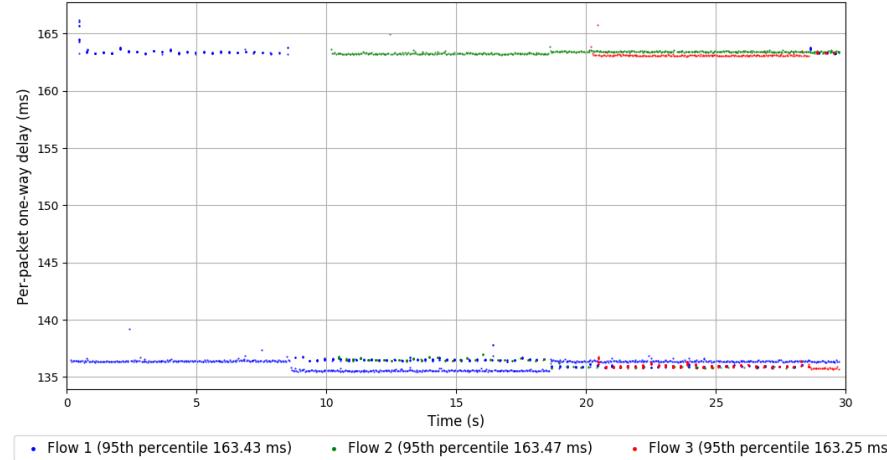
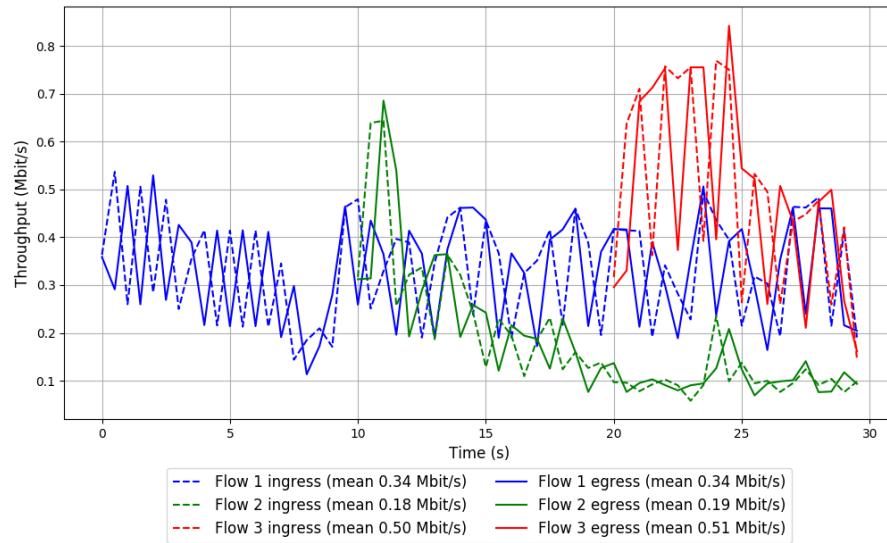
Run 6: Statistics of Sprout

Start at: 2017-12-06 11:24:22

End at: 2017-12-06 11:24:52

```
# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 163.436 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 163.426 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 163.471 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 163.247 ms
Loss rate: 1.43%
```

Run 6: Report of Sprout — Data Link

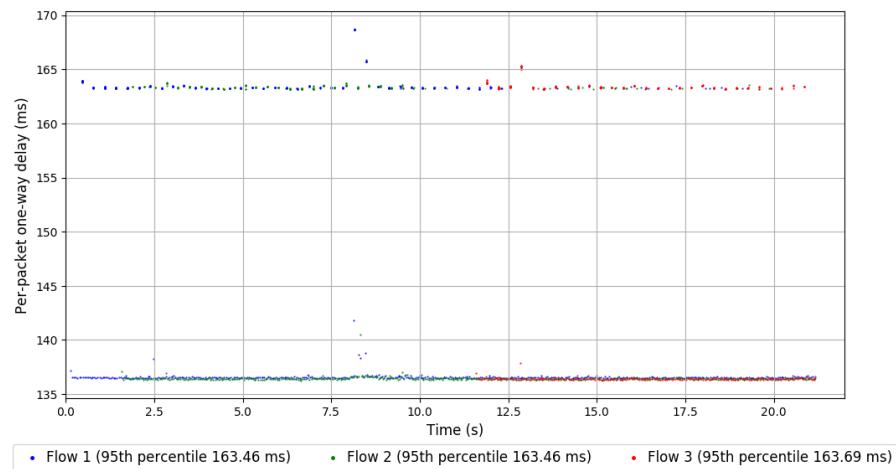
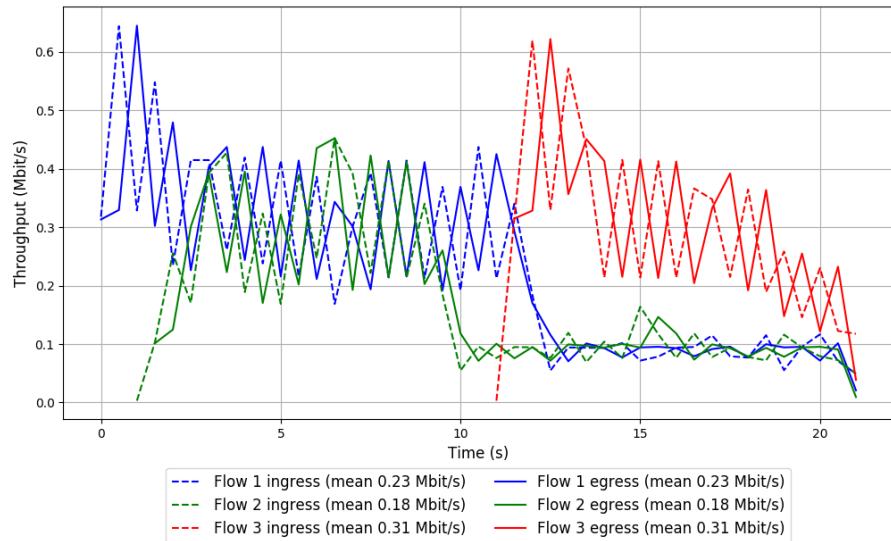


Run 7: Statistics of Sprout

Start at: 2017-12-06 11:37:45

End at: 2017-12-06 11:38:15

Run 7: Report of Sprout — Data Link



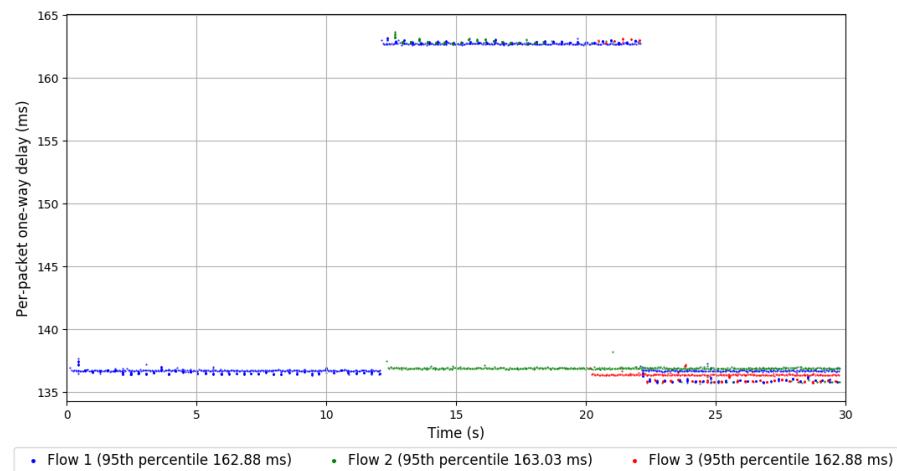
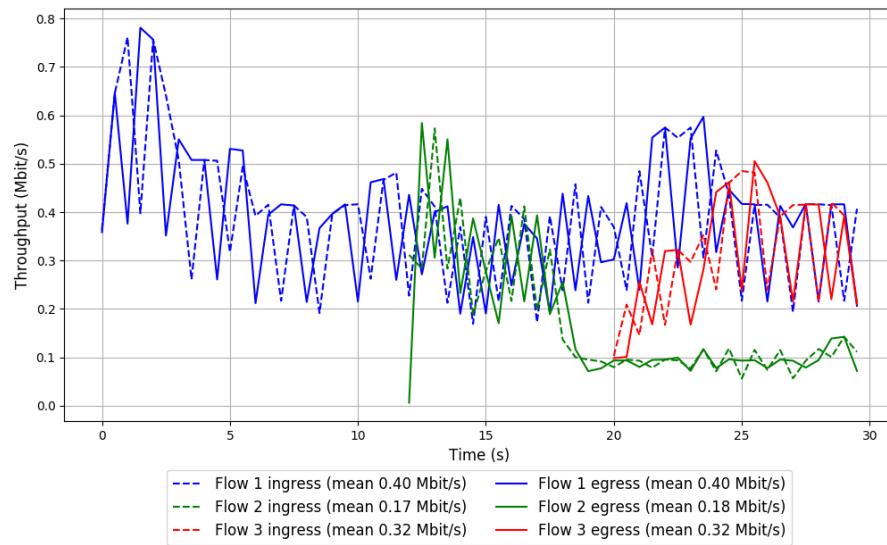
Run 8: Statistics of Sprout

Start at: 2017-12-06 11:51:19

End at: 2017-12-06 11:51:49

```
# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 162.906 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 162.885 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 163.034 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 162.880 ms
Loss rate: 3.32%
```

Run 8: Report of Sprout — Data Link

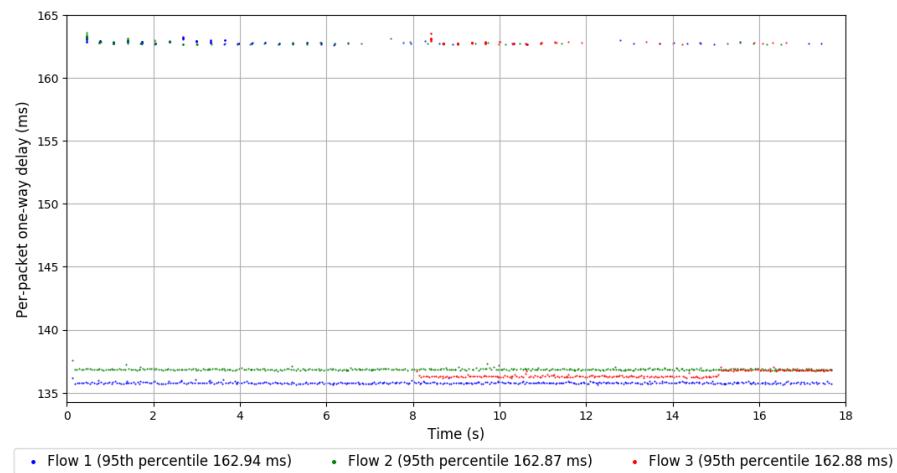
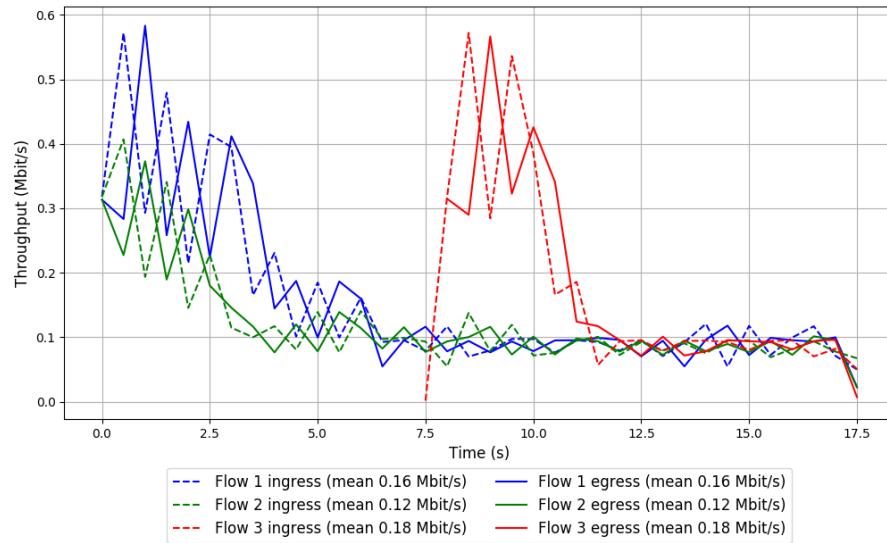


Run 9: Statistics of Sprout

Start at: 2017-12-06 12:04:33

End at: 2017-12-06 12:05:03

Run 9: Report of Sprout — Data Link



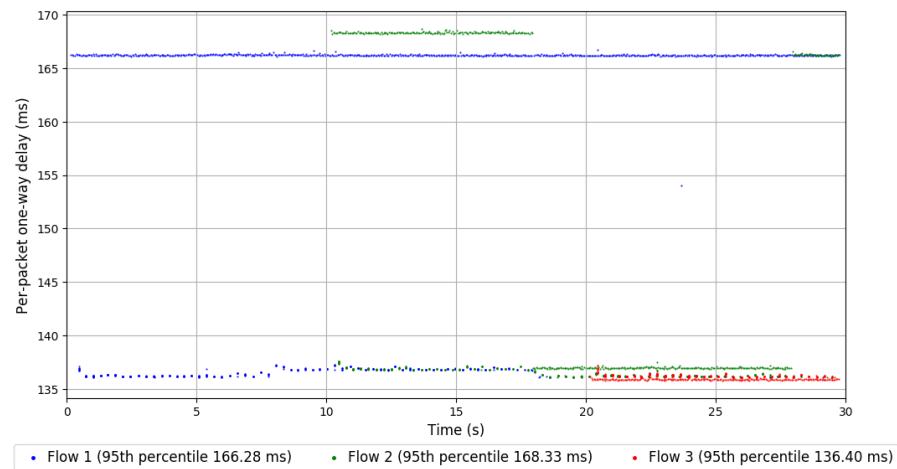
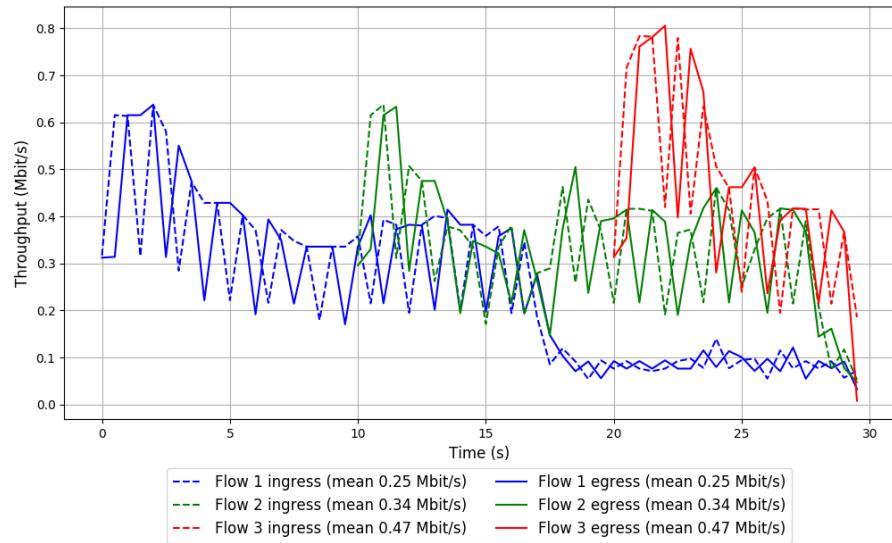
Run 10: Statistics of Sprout

Start at: 2017-12-06 12:18:03

End at: 2017-12-06 12:18:33

```
# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 168.255 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 166.278 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 168.332 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 136.400 ms
Loss rate: 1.98%
```

Run 10: Report of Sprout — Data Link



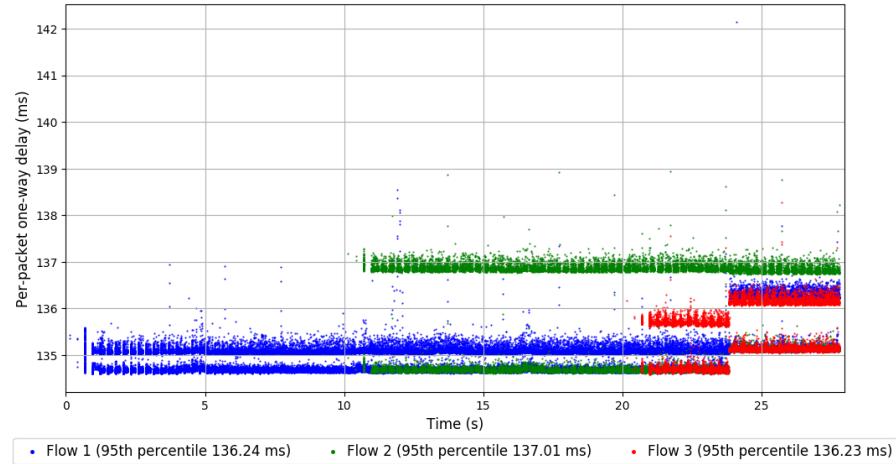
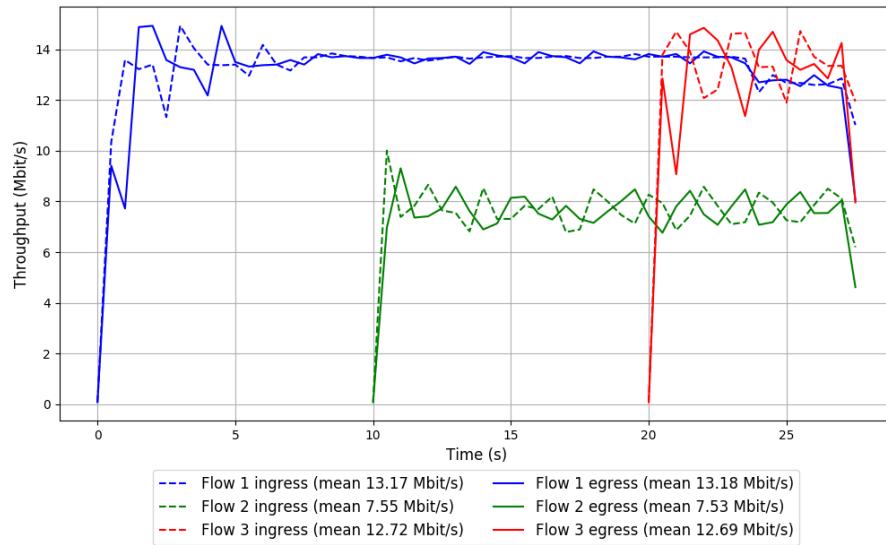
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-06 10:10:55

End at: 2017-12-06 10:11:25

```
# Below is generated by plot.py at 2017-12-06 15:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.50 Mbit/s
95th percentile per-packet one-way delay: 136.863 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 13.18 Mbit/s
95th percentile per-packet one-way delay: 136.235 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 7.53 Mbit/s
95th percentile per-packet one-way delay: 137.007 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 12.69 Mbit/s
95th percentile per-packet one-way delay: 136.227 ms
Loss rate: 3.67%
```

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



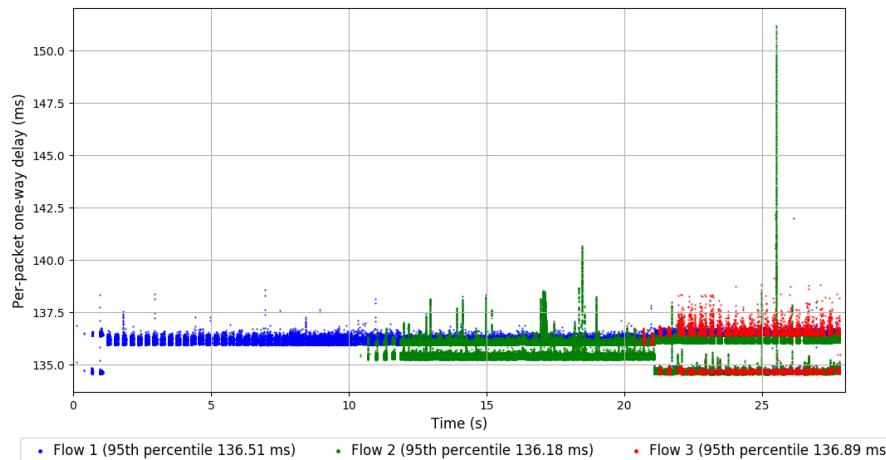
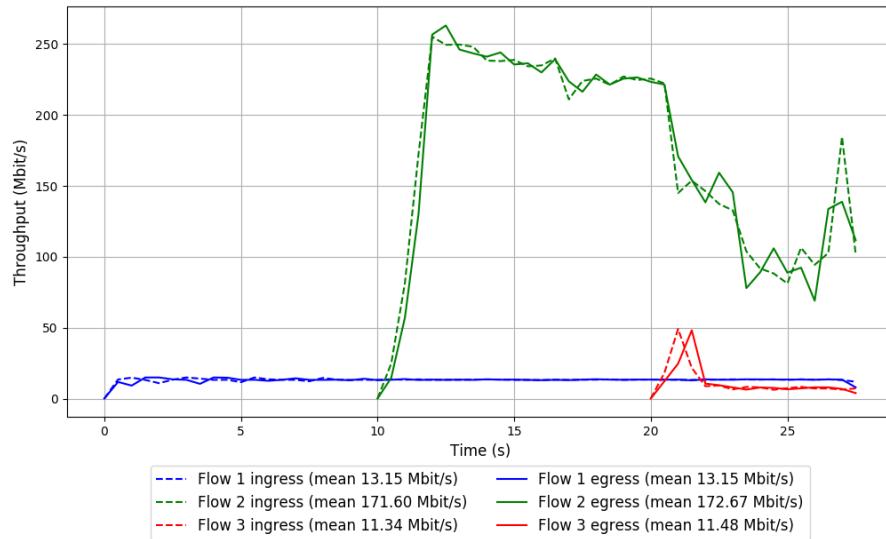
Run 2: Statistics of TaoVA-100x

Start at: 2017-12-06 10:24:48

End at: 2017-12-06 10:25:18

```
# Below is generated by plot.py at 2017-12-06 15:04:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 126.53 Mbit/s
95th percentile per-packet one-way delay: 136.275 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 13.15 Mbit/s
95th percentile per-packet one-way delay: 136.507 ms
Loss rate: 1.01%
-- Flow 2:
Average throughput: 172.67 Mbit/s
95th percentile per-packet one-way delay: 136.183 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 11.48 Mbit/s
95th percentile per-packet one-way delay: 136.889 ms
Loss rate: 2.32%
```

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



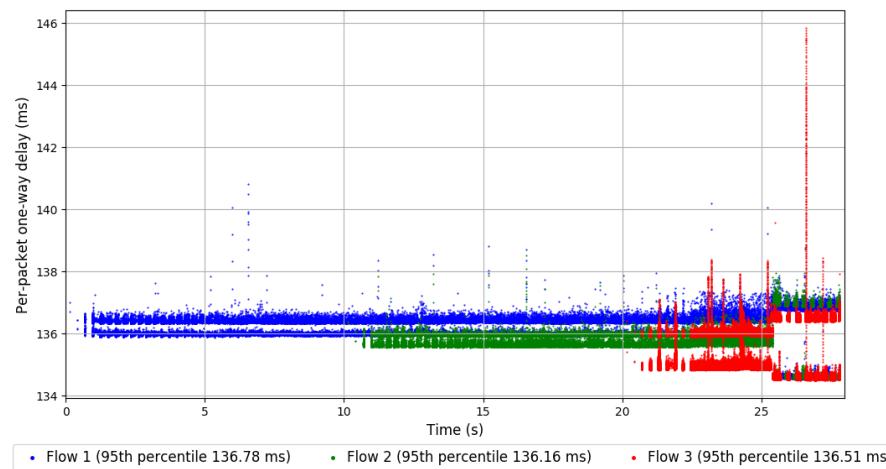
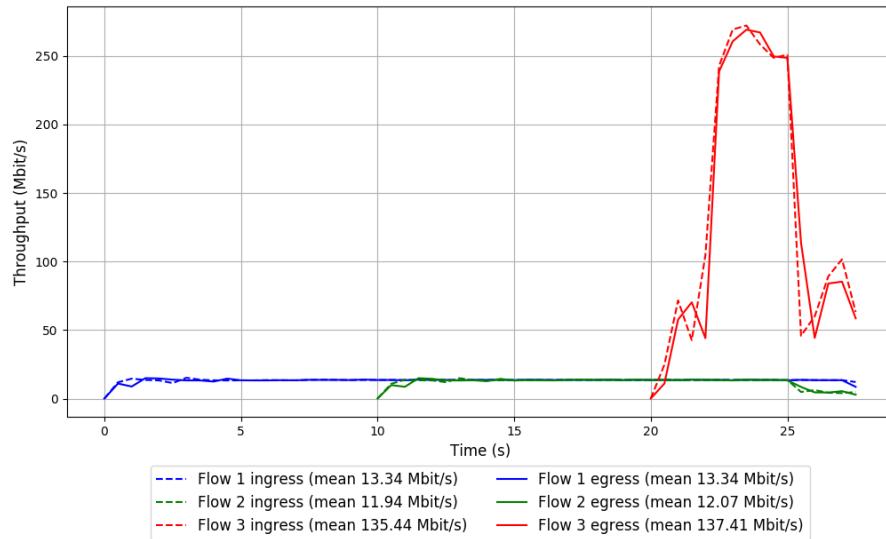
Run 3: Statistics of TaoVA-100x

Start at: 2017-12-06 10:38:33

End at: 2017-12-06 10:39:03

```
# Below is generated by plot.py at 2017-12-06 15:04:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.03 Mbit/s
95th percentile per-packet one-way delay: 136.546 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 13.34 Mbit/s
95th percentile per-packet one-way delay: 136.780 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 12.07 Mbit/s
95th percentile per-packet one-way delay: 136.165 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 137.41 Mbit/s
95th percentile per-packet one-way delay: 136.512 ms
Loss rate: 2.00%
```

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



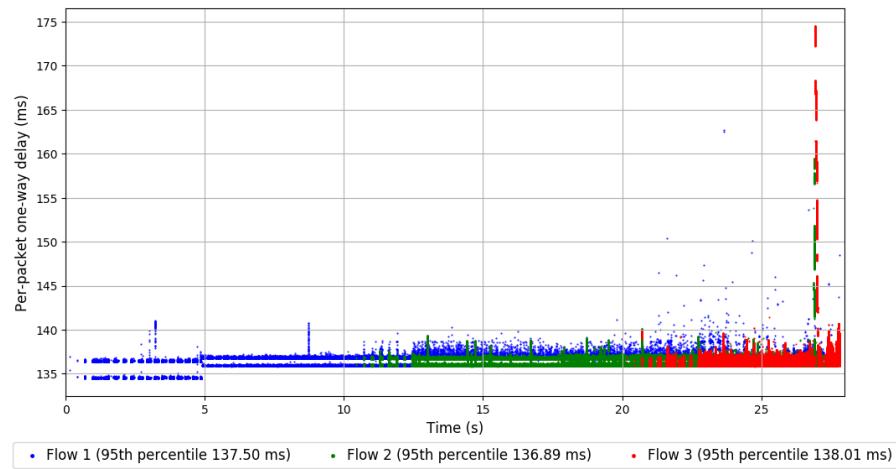
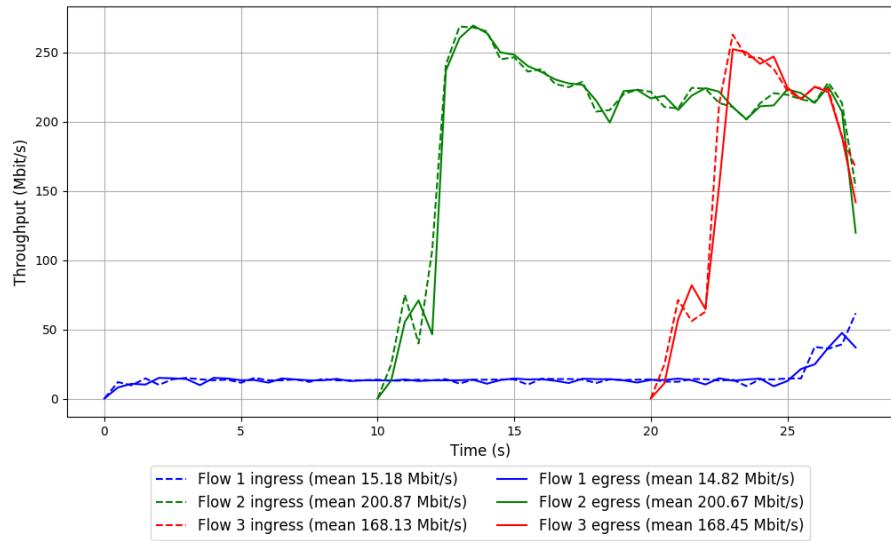
Run 4: Statistics of TaoVA-100x

Start at: 2017-12-06 10:52:04

End at: 2017-12-06 10:52:34

```
# Below is generated by plot.py at 2017-12-06 15:05:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 189.40 Mbit/s
95th percentile per-packet one-way delay: 137.124 ms
Loss rate: 2.01%
-- Flow 1:
Average throughput: 14.82 Mbit/s
95th percentile per-packet one-way delay: 137.497 ms
Loss rate: 3.34%
-- Flow 2:
Average throughput: 200.67 Mbit/s
95th percentile per-packet one-way delay: 136.890 ms
Loss rate: 1.38%
-- Flow 3:
Average throughput: 168.45 Mbit/s
95th percentile per-packet one-way delay: 138.014 ms
Loss rate: 3.27%
```

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



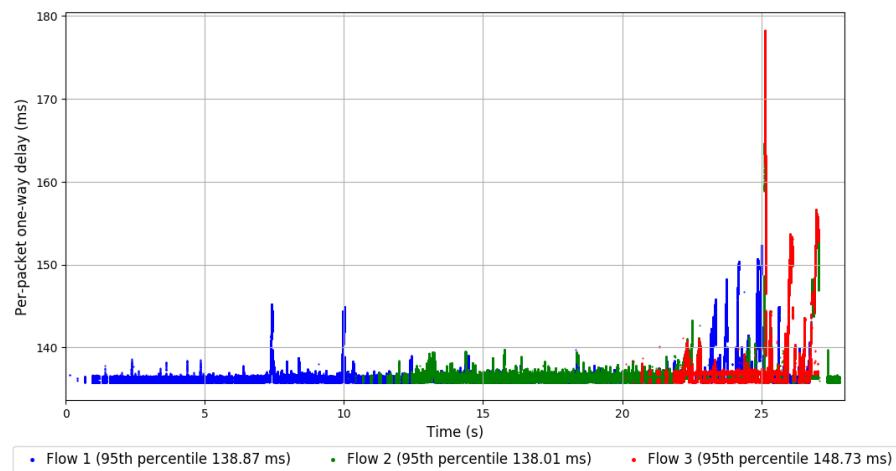
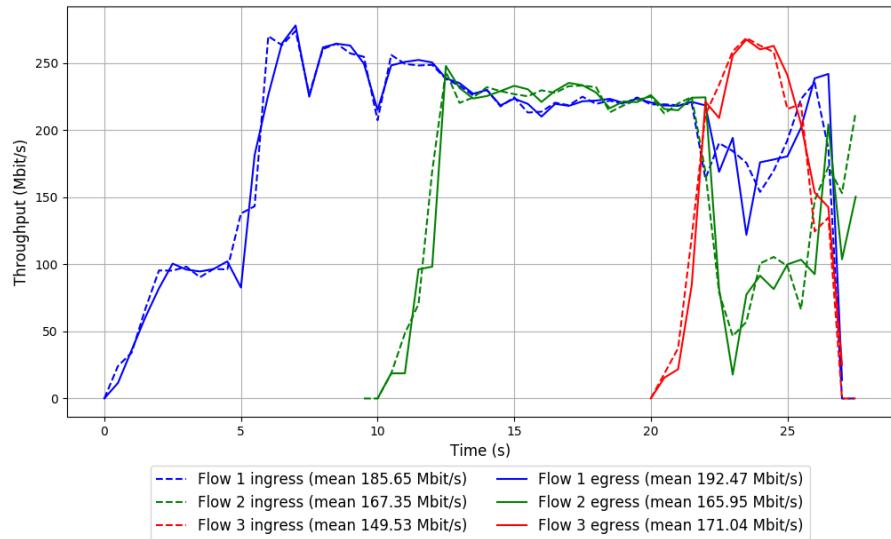
Run 5: Statistics of TaoVA-100x

Start at: 2017-12-06 11:05:42

End at: 2017-12-06 11:06:12

```
# Below is generated by plot.py at 2017-12-06 15:10:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 335.81 Mbit/s
95th percentile per-packet one-way delay: 139.019 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 192.47 Mbit/s
95th percentile per-packet one-way delay: 138.868 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 165.95 Mbit/s
95th percentile per-packet one-way delay: 138.013 ms
Loss rate: 2.35%
-- Flow 3:
Average throughput: 171.04 Mbit/s
95th percentile per-packet one-way delay: 148.727 ms
Loss rate: 0.00%
```

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



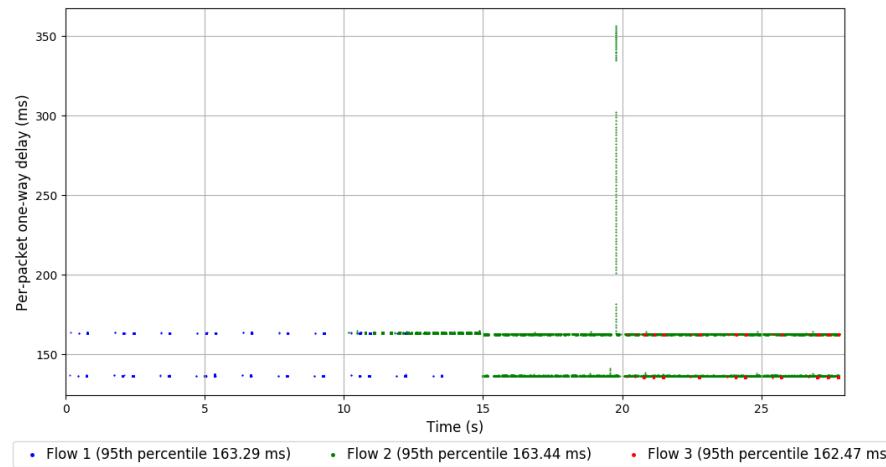
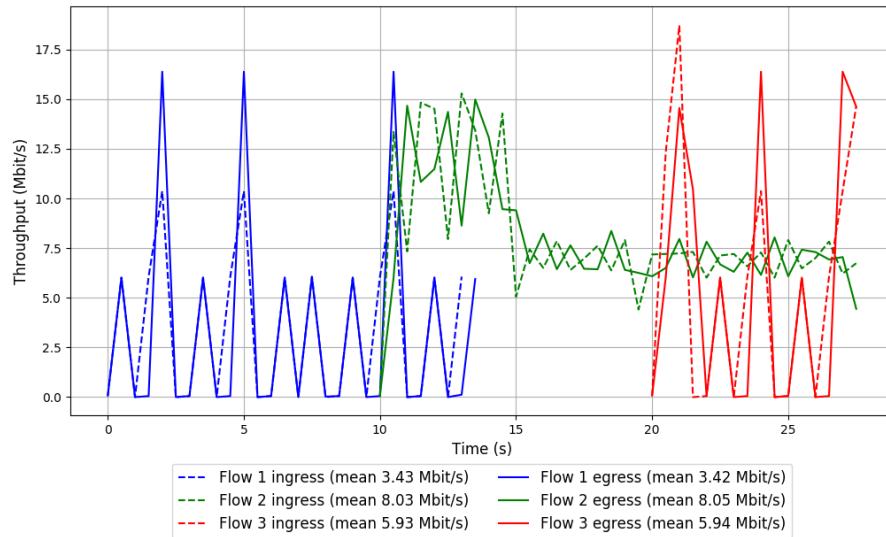
Run 6: Statistics of TaoVA-100x

Start at: 2017-12-06 11:19:34

End at: 2017-12-06 11:20:04

```
# Below is generated by plot.py at 2017-12-06 15:10:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.43 Mbit/s
95th percentile per-packet one-way delay: 163.390 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 3.42 Mbit/s
95th percentile per-packet one-way delay: 163.293 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.05 Mbit/s
95th percentile per-packet one-way delay: 163.441 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 5.94 Mbit/s
95th percentile per-packet one-way delay: 162.470 ms
Loss rate: 0.03%
```

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



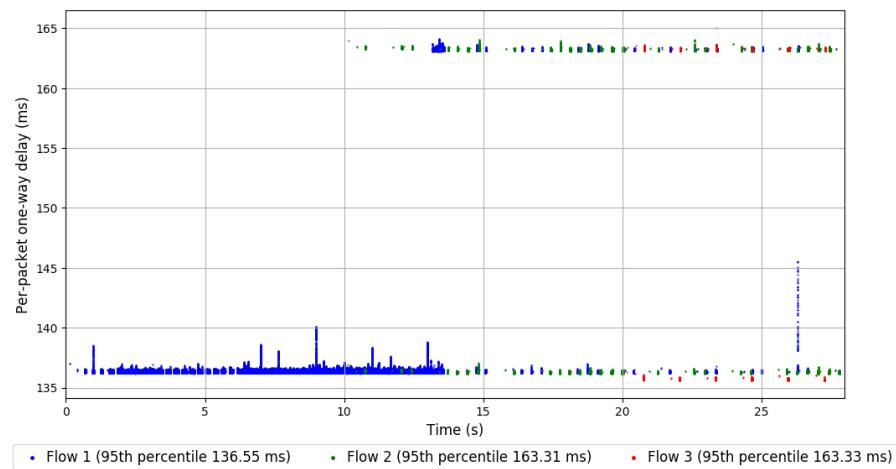
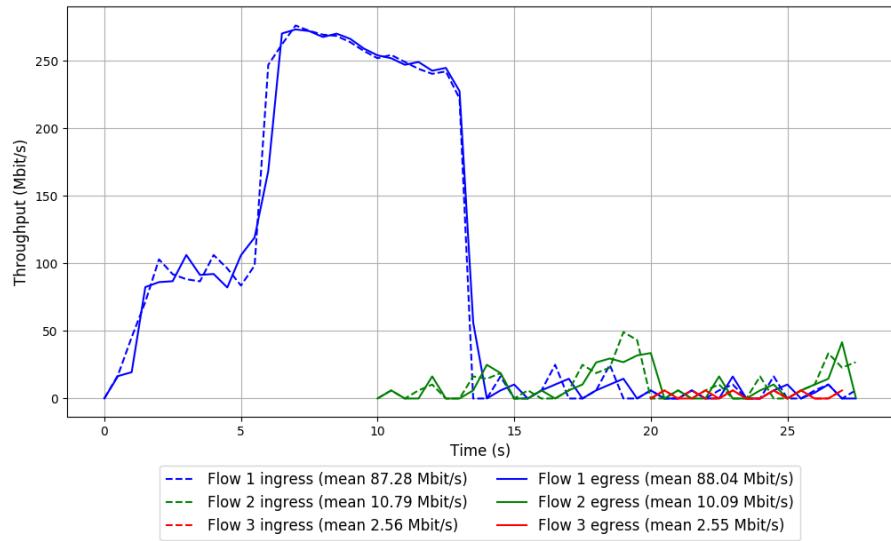
Run 7: Statistics of TaoVA-100x

Start at: 2017-12-06 11:32:45

End at: 2017-12-06 11:33:15

```
# Below is generated by plot.py at 2017-12-06 15:10:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.74 Mbit/s
95th percentile per-packet one-way delay: 163.166 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 88.04 Mbit/s
95th percentile per-packet one-way delay: 136.553 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 10.09 Mbit/s
95th percentile per-packet one-way delay: 163.315 ms
Loss rate: 6.77%
-- Flow 3:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 163.328 ms
Loss rate: 0.00%
```

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



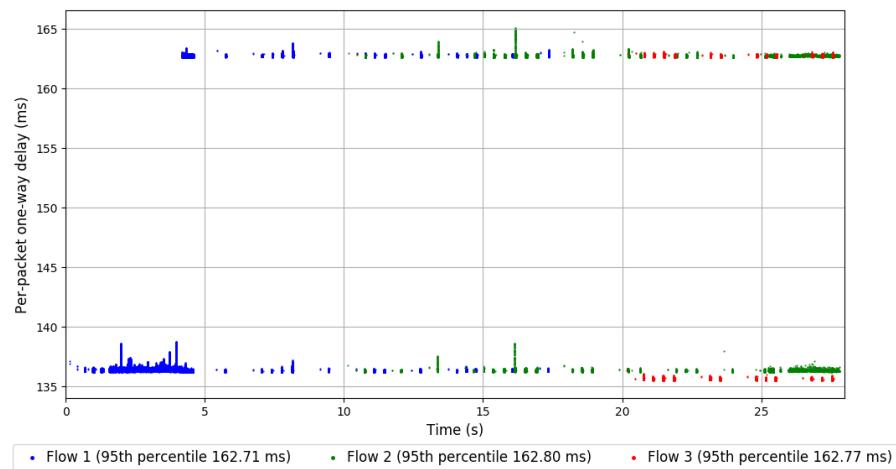
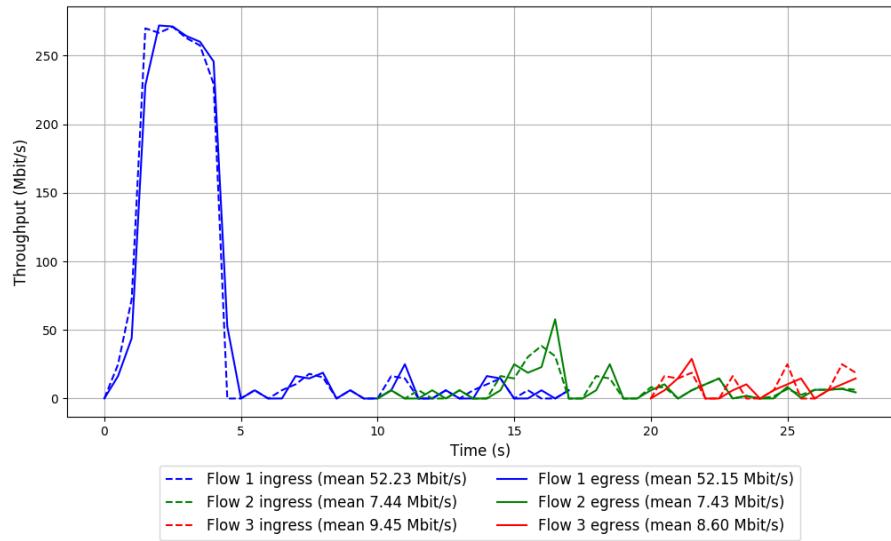
Run 8: Statistics of TaoVA-100x

Start at: 2017-12-06 11:46:35

End at: 2017-12-06 11:47:05

```
# Below is generated by plot.py at 2017-12-06 15:10:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.53 Mbit/s
95th percentile per-packet one-way delay: 162.734 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 52.15 Mbit/s
95th percentile per-packet one-way delay: 162.711 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.43 Mbit/s
95th percentile per-packet one-way delay: 162.799 ms
Loss rate: 1.60%
-- Flow 3:
Average throughput: 8.60 Mbit/s
95th percentile per-packet one-way delay: 162.773 ms
Loss rate: 12.77%
```

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



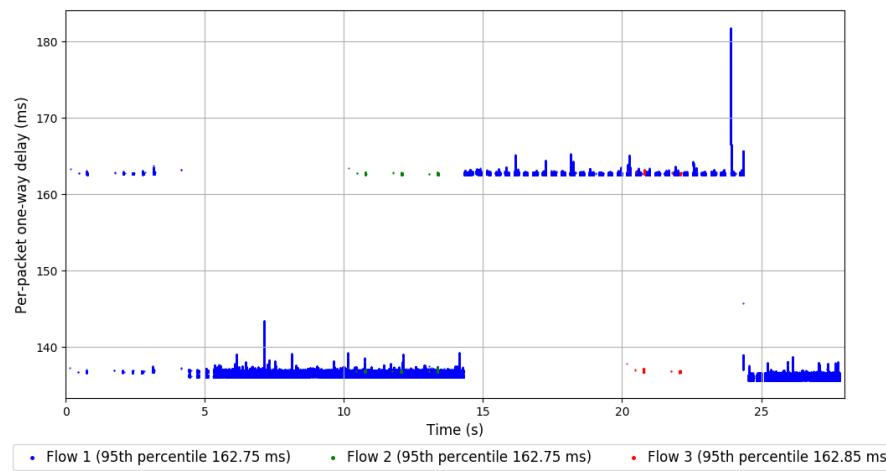
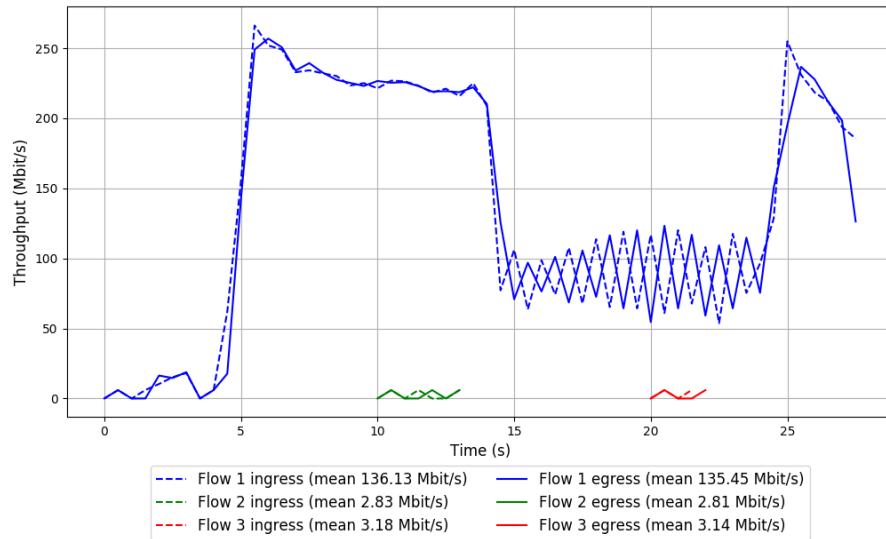
Run 9: Statistics of TaoVA-100x

Start at: 2017-12-06 11:59:44

End at: 2017-12-06 12:00:14

```
# Below is generated by plot.py at 2017-12-06 15:10:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 136.00 Mbit/s
95th percentile per-packet one-way delay: 162.745 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 135.45 Mbit/s
95th percentile per-packet one-way delay: 162.745 ms
Loss rate: 1.48%
-- Flow 2:
Average throughput: 2.81 Mbit/s
95th percentile per-packet one-way delay: 162.752 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.14 Mbit/s
95th percentile per-packet one-way delay: 162.852 ms
Loss rate: 0.00%
```

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



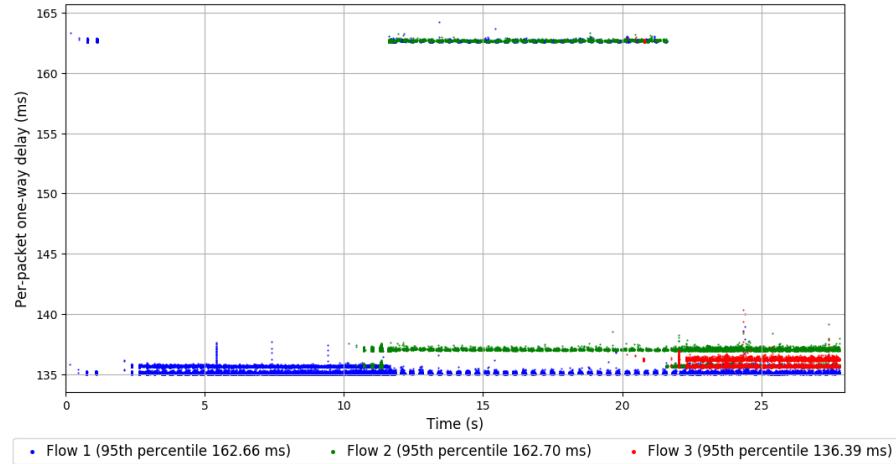
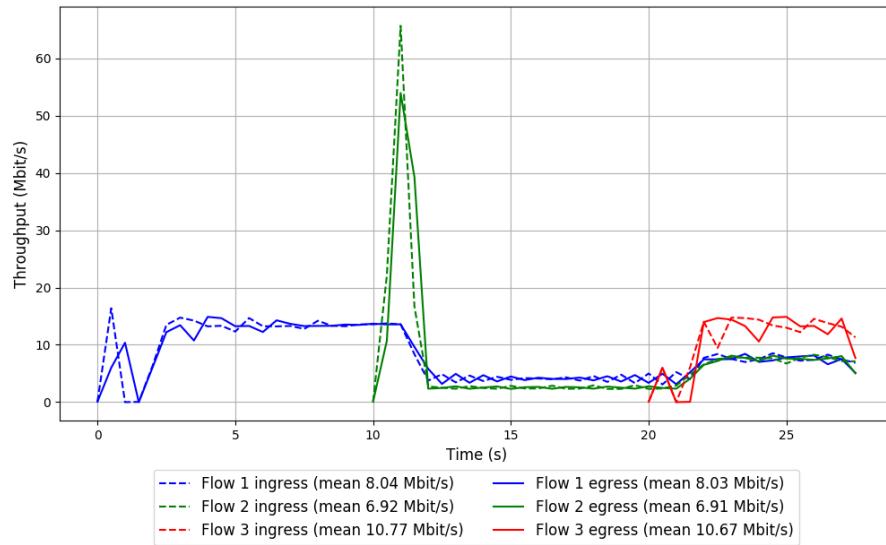
Run 10: Statistics of TaoVA-100x

Start at: 2017-12-06 12:13:17

End at: 2017-12-06 12:13:47

```
# Below is generated by plot.py at 2017-12-06 15:10:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.39 Mbit/s
95th percentile per-packet one-way delay: 162.667 ms
Loss rate: 1.83%
-- Flow 1:
Average throughput: 8.03 Mbit/s
95th percentile per-packet one-way delay: 162.662 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 6.91 Mbit/s
95th percentile per-packet one-way delay: 162.700 ms
Loss rate: 1.56%
-- Flow 3:
Average throughput: 10.67 Mbit/s
95th percentile per-packet one-way delay: 136.392 ms
Loss rate: 4.37%
```

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



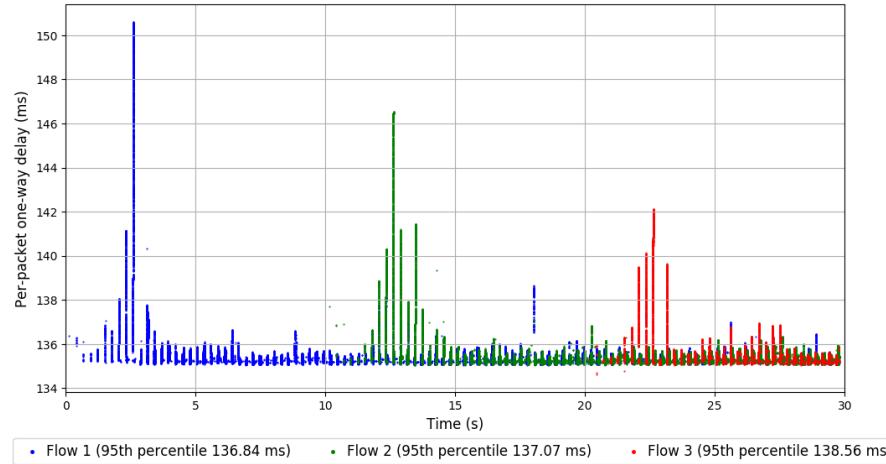
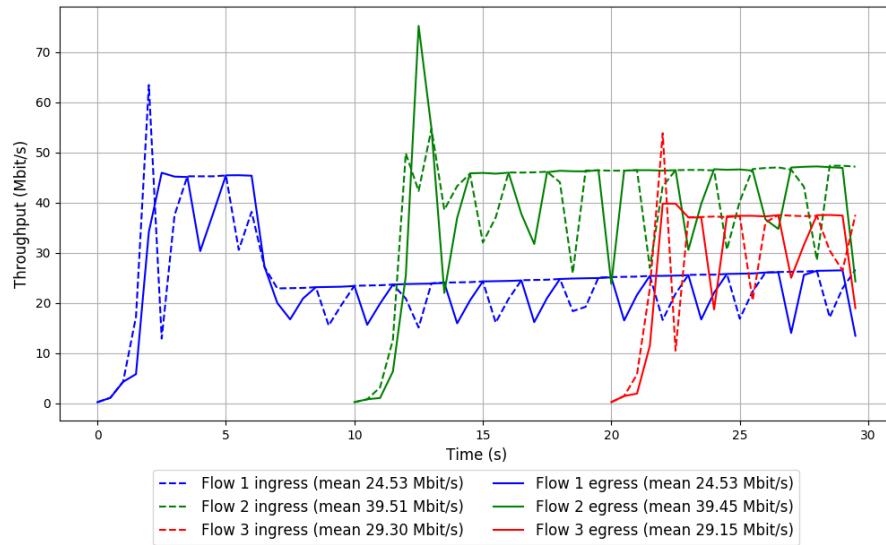
Run 1: Statistics of TCP Vegas

Start at: 2017-12-06 10:09:12

End at: 2017-12-06 10:09:42

```
# Below is generated by plot.py at 2017-12-06 15:10:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.12 Mbit/s
95th percentile per-packet one-way delay: 137.275 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 24.53 Mbit/s
95th percentile per-packet one-way delay: 136.842 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 39.45 Mbit/s
95th percentile per-packet one-way delay: 137.072 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 29.15 Mbit/s
95th percentile per-packet one-way delay: 138.561 ms
Loss rate: 3.25%
```

Run 1: Report of TCP Vegas — Data Link



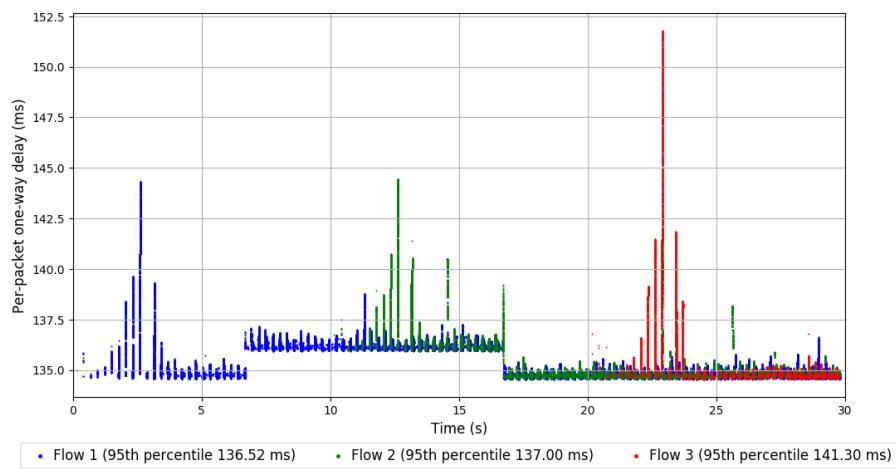
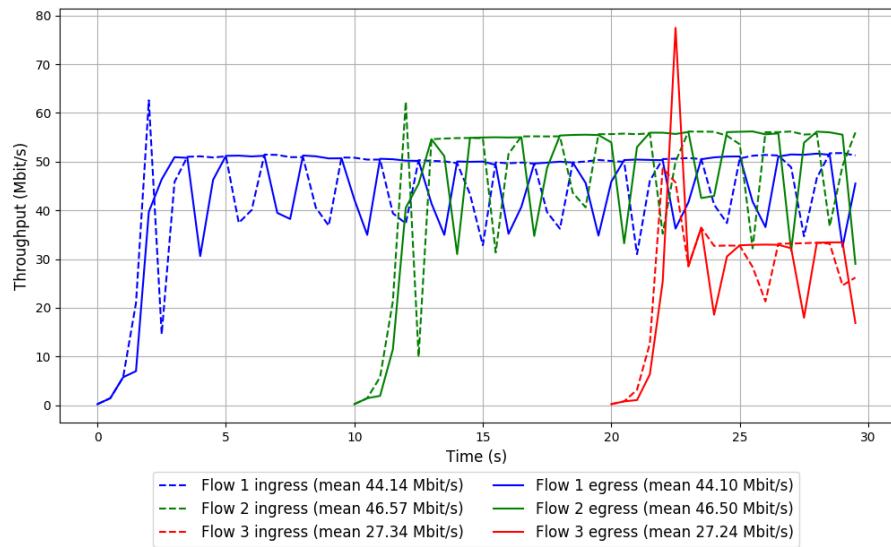
Run 2: Statistics of TCP Vegas

Start at: 2017-12-06 10:23:04

End at: 2017-12-06 10:23:34

```
# Below is generated by plot.py at 2017-12-06 15:10:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.74 Mbit/s
95th percentile per-packet one-way delay: 136.766 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 44.10 Mbit/s
95th percentile per-packet one-way delay: 136.524 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 46.50 Mbit/s
95th percentile per-packet one-way delay: 136.996 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 27.24 Mbit/s
95th percentile per-packet one-way delay: 141.296 ms
Loss rate: 3.11%
```

Run 2: Report of TCP Vegas — Data Link



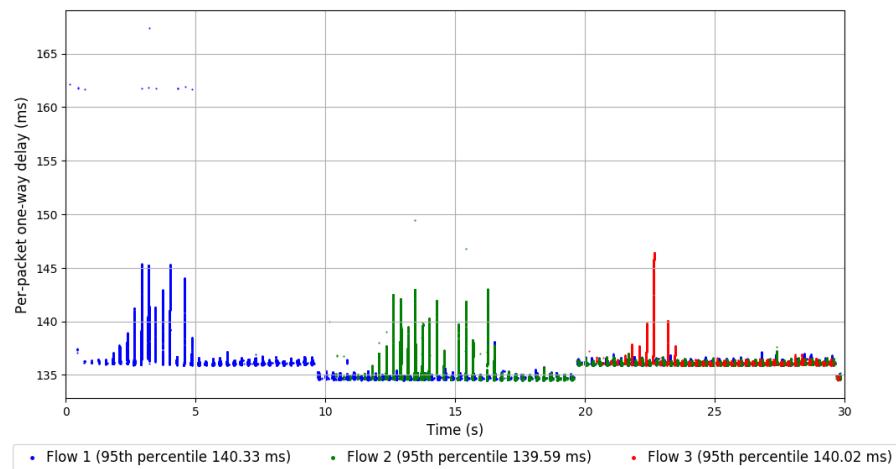
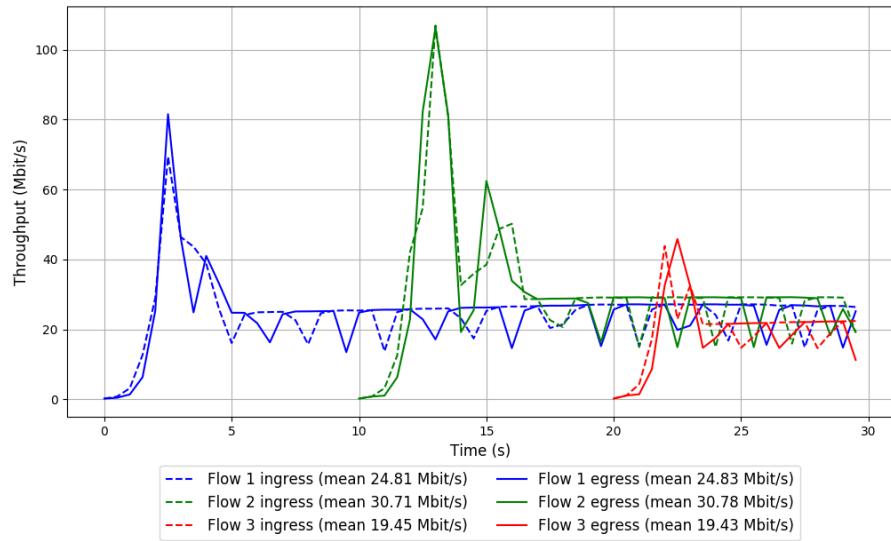
Run 3: Statistics of TCP Vegas

Start at: 2017-12-06 10:36:51

End at: 2017-12-06 10:37:21

```
# Below is generated by plot.py at 2017-12-06 15:10:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 51.55 Mbit/s
95th percentile per-packet one-way delay: 139.863 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 24.83 Mbit/s
95th percentile per-packet one-way delay: 140.330 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 30.78 Mbit/s
95th percentile per-packet one-way delay: 139.594 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 19.43 Mbit/s
95th percentile per-packet one-way delay: 140.021 ms
Loss rate: 2.91%
```

Run 3: Report of TCP Vegas — Data Link



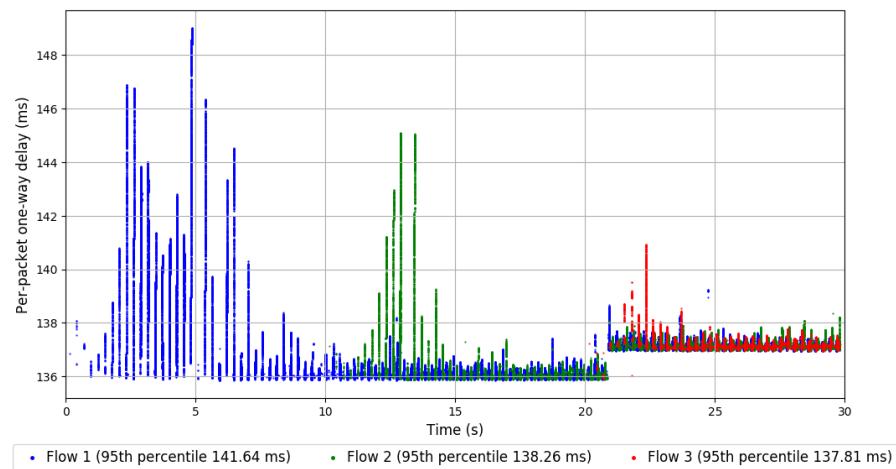
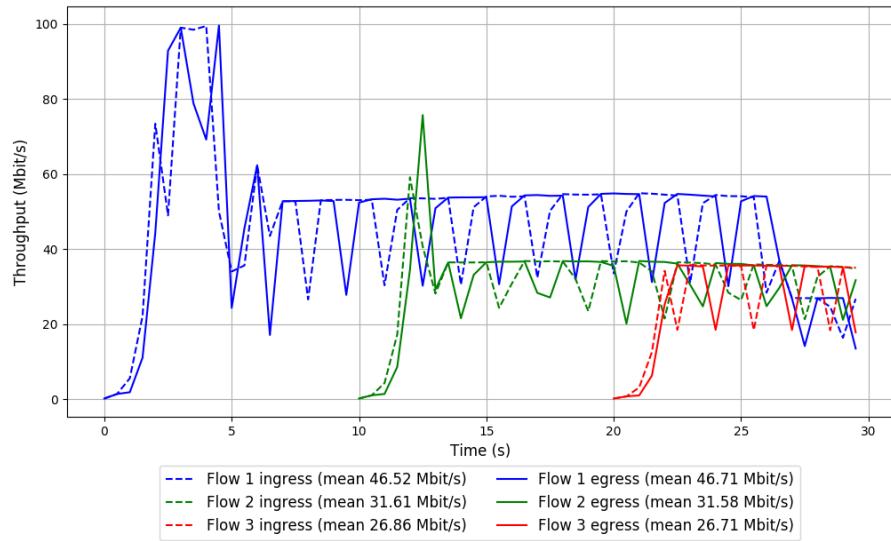
Run 4: Statistics of TCP Vegas

Start at: 2017-12-06 10:50:20

End at: 2017-12-06 10:50:50

```
# Below is generated by plot.py at 2017-12-06 15:10:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.25 Mbit/s
95th percentile per-packet one-way delay: 140.677 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 46.71 Mbit/s
95th percentile per-packet one-way delay: 141.641 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 31.58 Mbit/s
95th percentile per-packet one-way delay: 138.258 ms
Loss rate: 1.40%
-- Flow 3:
Average throughput: 26.71 Mbit/s
95th percentile per-packet one-way delay: 137.806 ms
Loss rate: 3.31%
```

Run 4: Report of TCP Vegas — Data Link



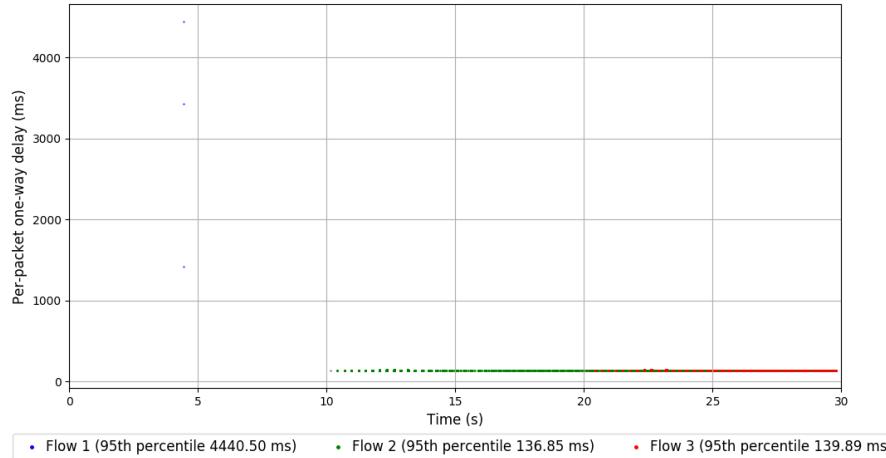
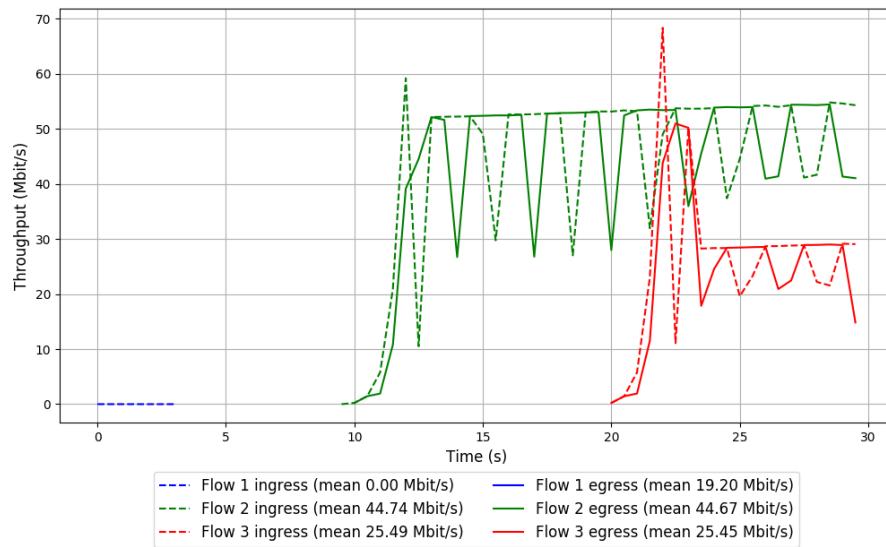
Run 5: Statistics of TCP Vegas

Start at: 2017-12-06 11:04:01

End at: 2017-12-06 11:04:31

```
# Below is generated by plot.py at 2017-12-06 15:10:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 44.30 Mbit/s
95th percentile per-packet one-way delay: 137.637 ms
Loss rate: 1.84%
-- Flow 1:
Average throughput: 19.20 Mbit/s
95th percentile per-packet one-way delay: 4440.502 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 44.67 Mbit/s
95th percentile per-packet one-way delay: 136.849 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 25.45 Mbit/s
95th percentile per-packet one-way delay: 139.889 ms
Loss rate: 2.89%
```

Run 5: Report of TCP Vegas — Data Link

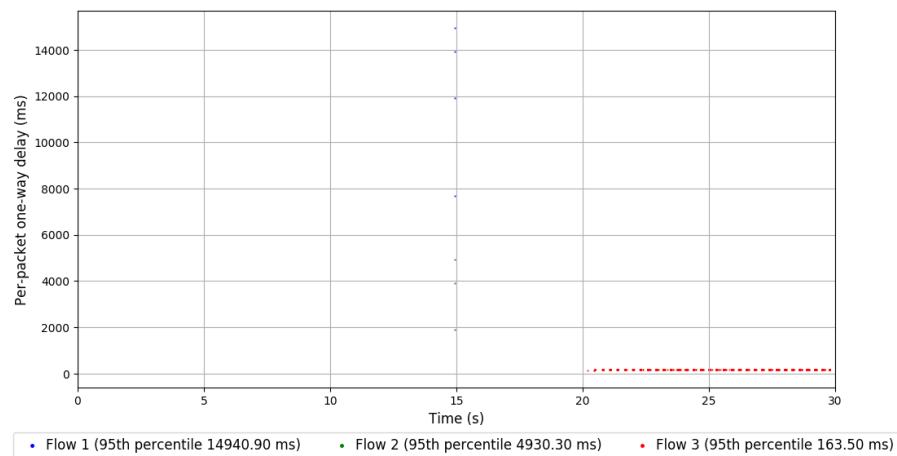
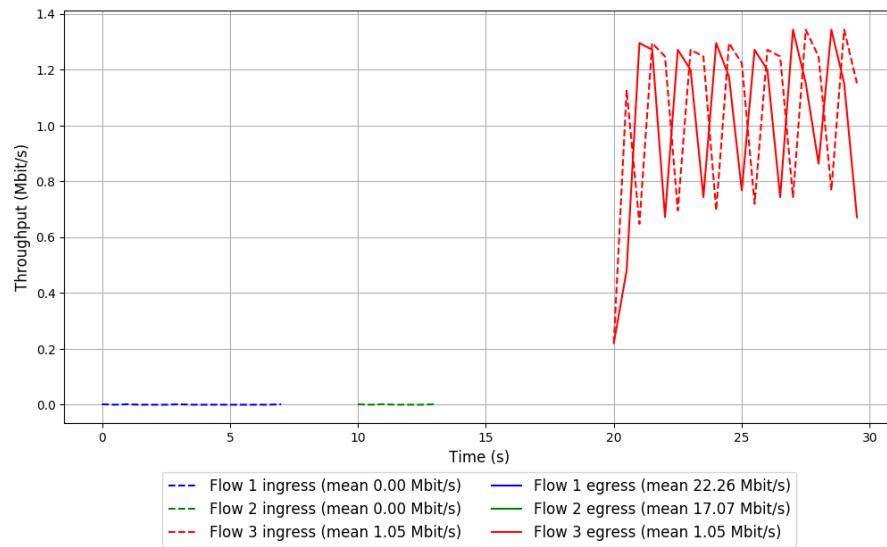


Run 6: Statistics of TCP Vegas

Start at: 2017-12-06 11:17:54

End at: 2017-12-06 11:18:24

Run 6: Report of TCP Vegas — Data Link



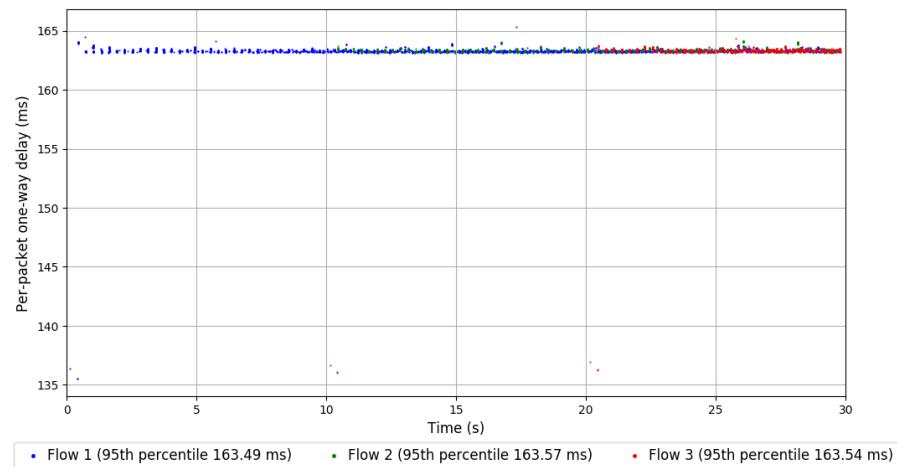
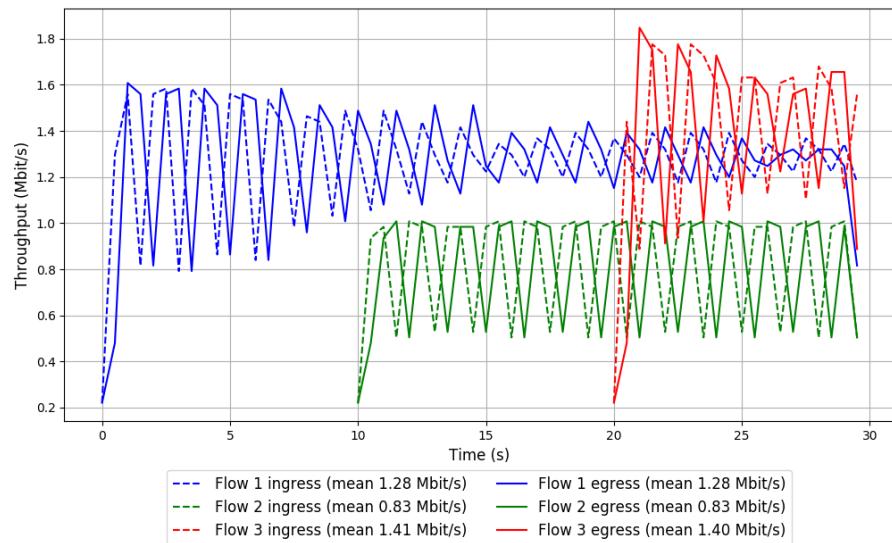
Run 7: Statistics of TCP Vegas

Start at: 2017-12-06 11:31:05

End at: 2017-12-06 11:31:35

```
# Below is generated by plot.py at 2017-12-06 15:10:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 163.528 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 163.492 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 0.83 Mbit/s
95th percentile per-packet one-way delay: 163.571 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 1.40 Mbit/s
95th percentile per-packet one-way delay: 163.544 ms
Loss rate: 3.10%
```

Run 7: Report of TCP Vegas — Data Link



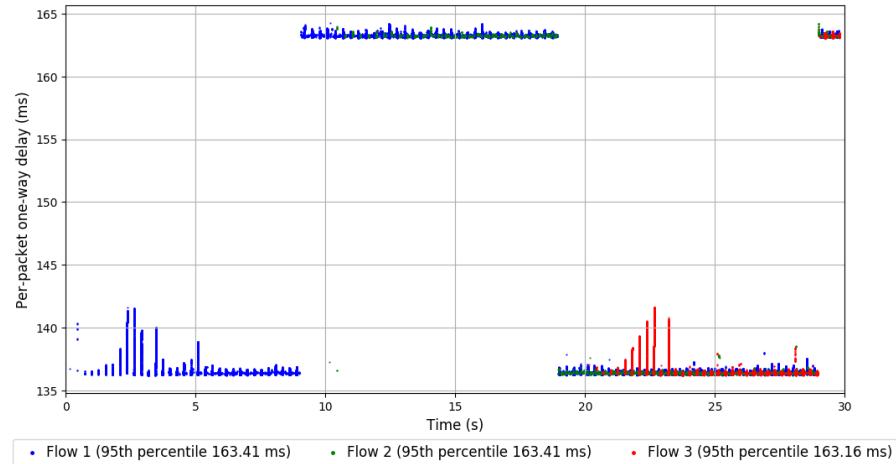
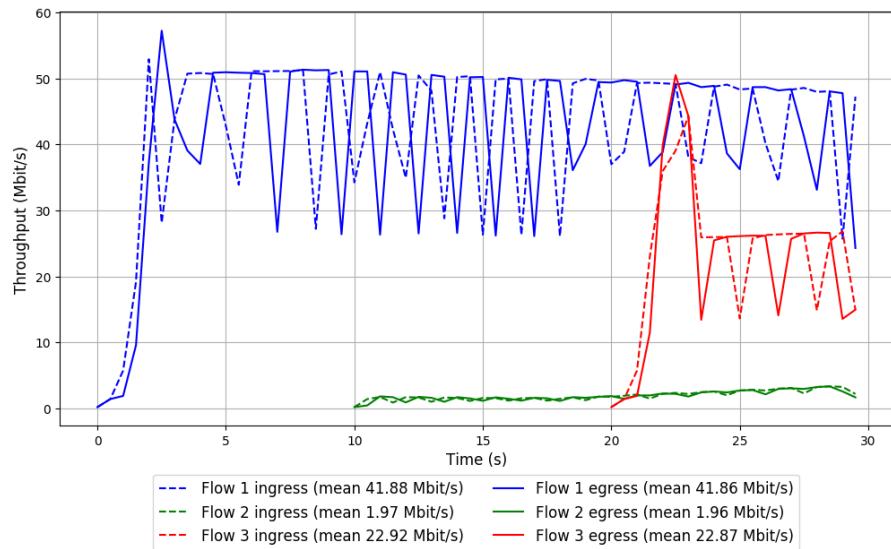
Run 8: Statistics of TCP Vegas

Start at: 2017-12-06 11:44:52

End at: 2017-12-06 11:45:22

```
# Below is generated by plot.py at 2017-12-06 15:10:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 50.59 Mbit/s
95th percentile per-packet one-way delay: 163.390 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 41.86 Mbit/s
95th percentile per-packet one-way delay: 163.410 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 163.411 ms
Loss rate: 2.14%
-- Flow 3:
Average throughput: 22.87 Mbit/s
95th percentile per-packet one-way delay: 163.155 ms
Loss rate: 2.95%
```

Run 8: Report of TCP Vegas — Data Link



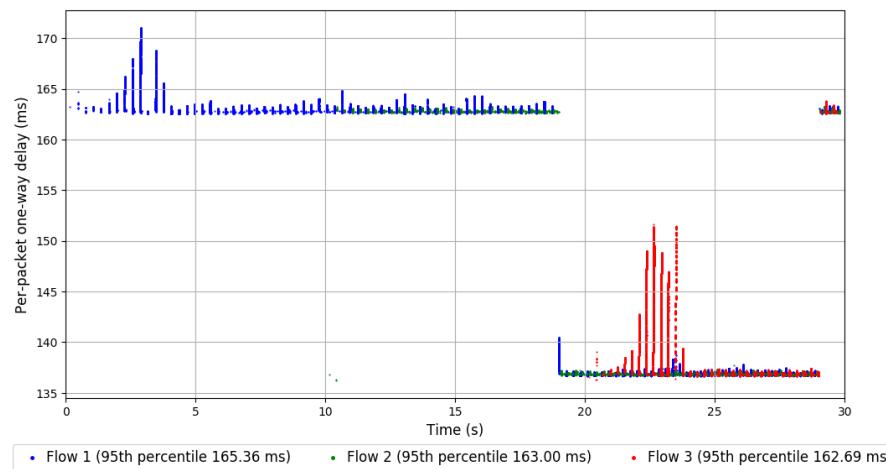
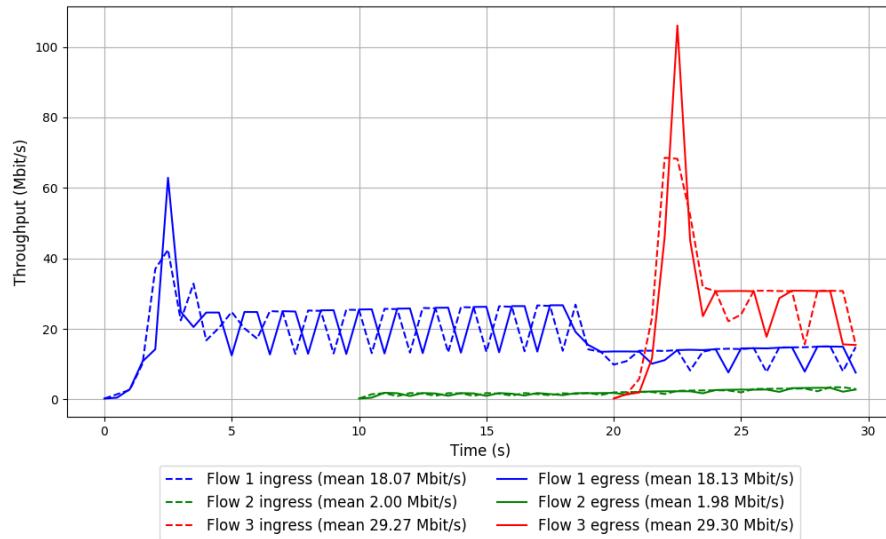
Run 9: Statistics of TCP Vegas

Start at: 2017-12-06 11:58:02

End at: 2017-12-06 11:58:32

```
# Below is generated by plot.py at 2017-12-06 15:10:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.85 Mbit/s
95th percentile per-packet one-way delay: 164.411 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 18.13 Mbit/s
95th percentile per-packet one-way delay: 165.356 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 163.003 ms
Loss rate: 2.17%
-- Flow 3:
Average throughput: 29.30 Mbit/s
95th percentile per-packet one-way delay: 162.692 ms
Loss rate: 2.68%
```

Run 9: Report of TCP Vegas — Data Link



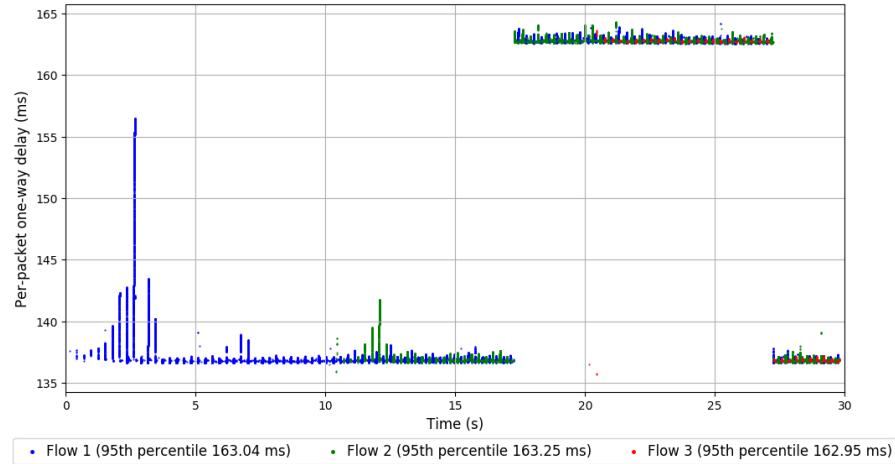
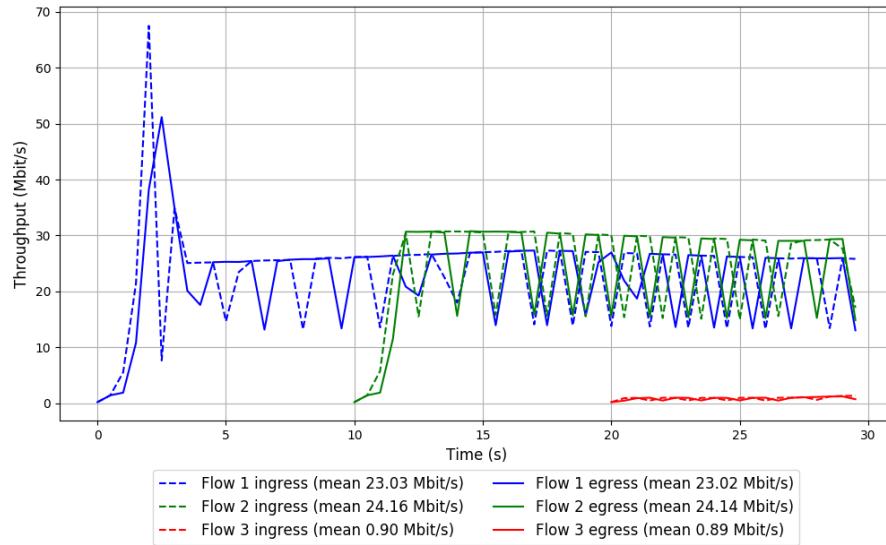
Run 10: Statistics of TCP Vegas

Start at: 2017-12-06 12:11:33

End at: 2017-12-06 12:12:03

```
# Below is generated by plot.py at 2017-12-06 15:10:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.30 Mbit/s
95th percentile per-packet one-way delay: 163.132 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 23.02 Mbit/s
95th percentile per-packet one-way delay: 163.039 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 24.14 Mbit/s
95th percentile per-packet one-way delay: 163.250 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 0.89 Mbit/s
95th percentile per-packet one-way delay: 162.953 ms
Loss rate: 4.04%
```

Run 10: Report of TCP Vegas — Data Link



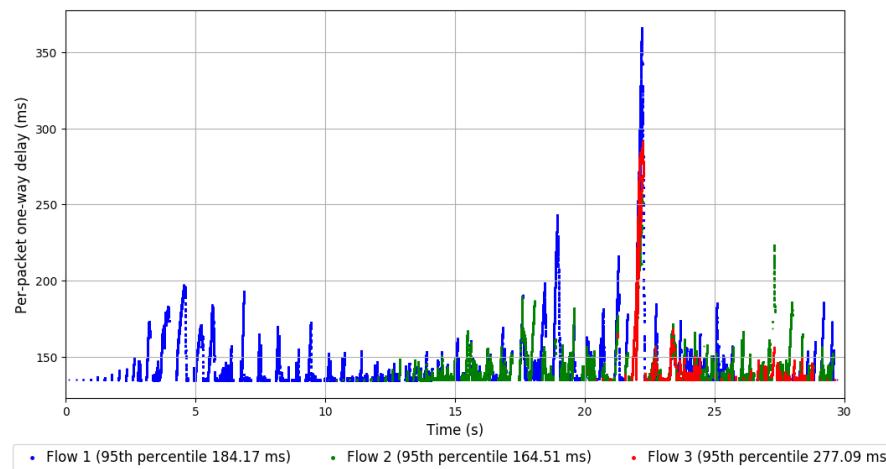
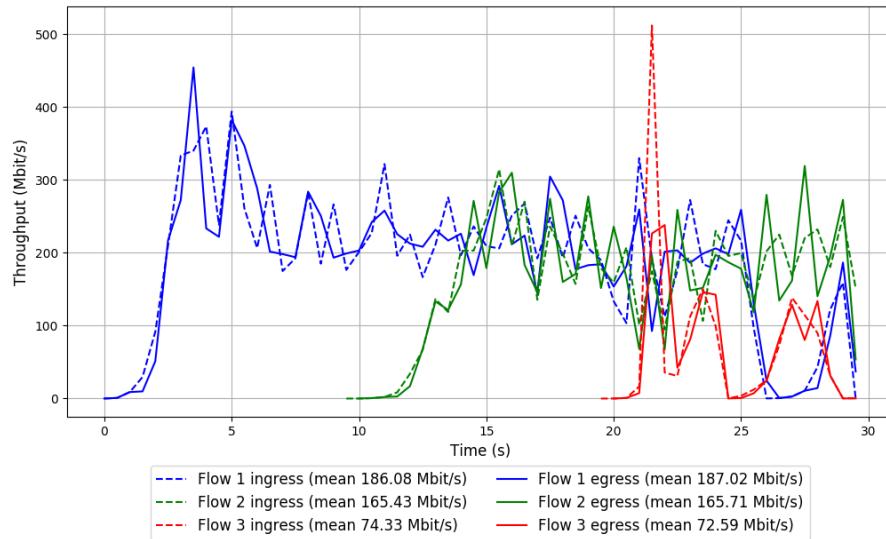
Run 1: Statistics of Verus

Start at: 2017-12-06 10:11:47

End at: 2017-12-06 10:12:17

```
# Below is generated by plot.py at 2017-12-06 15:10:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 319.07 Mbit/s
95th percentile per-packet one-way delay: 182.424 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 187.02 Mbit/s
95th percentile per-packet one-way delay: 184.171 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 165.71 Mbit/s
95th percentile per-packet one-way delay: 164.514 ms
Loss rate: 2.44%
-- Flow 3:
Average throughput: 72.59 Mbit/s
95th percentile per-packet one-way delay: 277.086 ms
Loss rate: 5.12%
```

Run 1: Report of Verus — Data Link

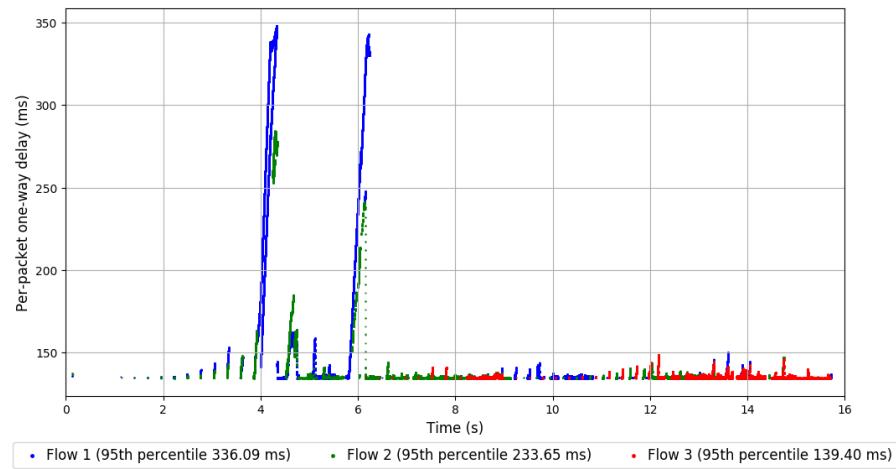
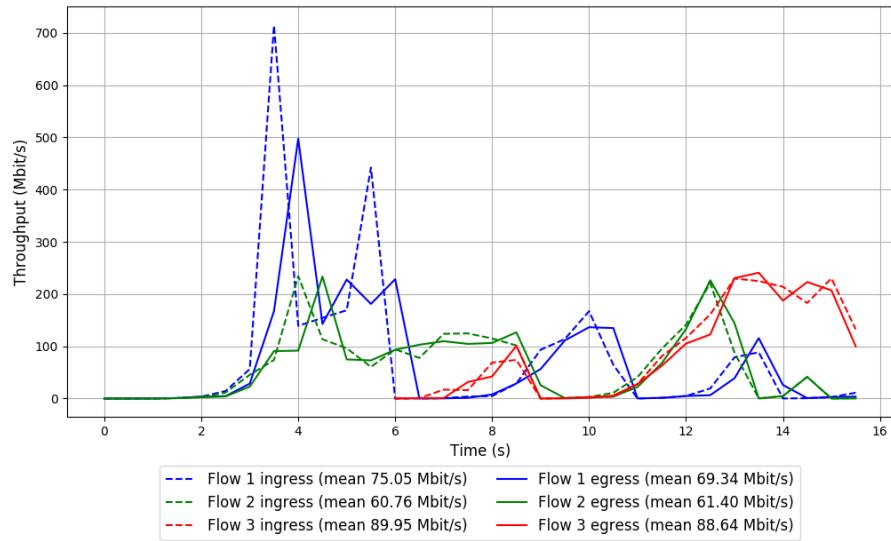


Run 2: Statistics of Verus

Start at: 2017-12-06 10:25:51

End at: 2017-12-06 10:26:21

Run 2: Report of Verus — Data Link



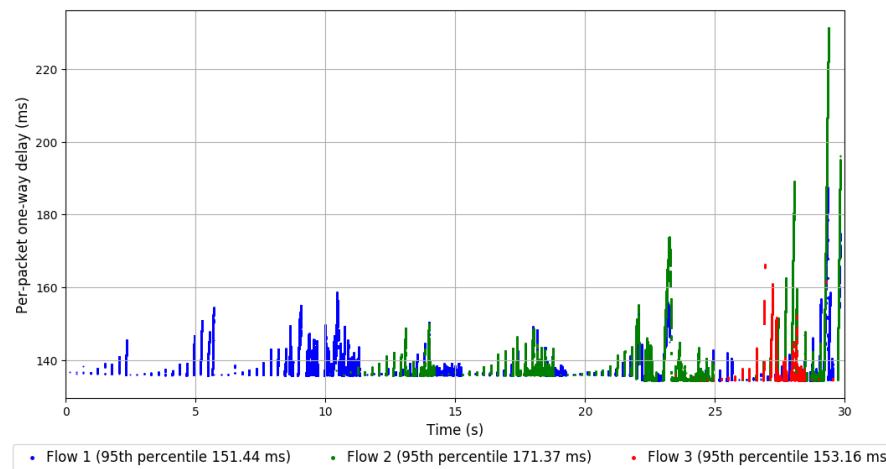
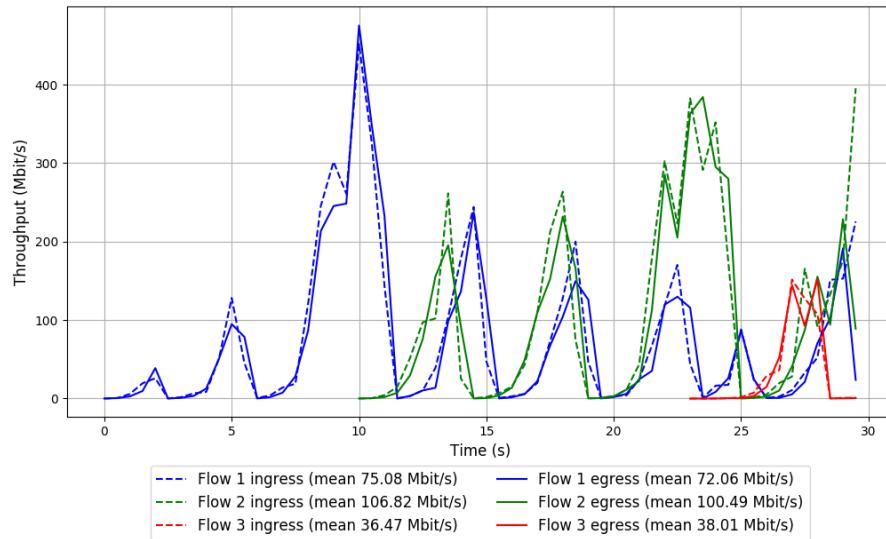
Run 3: Statistics of Verus

Start at: 2017-12-06 10:39:29

End at: 2017-12-06 10:39:59

```
# Below is generated by plot.py at 2017-12-06 15:10:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 146.45 Mbit/s
95th percentile per-packet one-way delay: 158.429 ms
Loss rate: 5.64%
-- Flow 1:
Average throughput: 72.06 Mbit/s
95th percentile per-packet one-way delay: 151.440 ms
Loss rate: 4.74%
-- Flow 2:
Average throughput: 100.49 Mbit/s
95th percentile per-packet one-way delay: 171.365 ms
Loss rate: 7.19%
-- Flow 3:
Average throughput: 38.01 Mbit/s
95th percentile per-packet one-way delay: 153.163 ms
Loss rate: 0.23%
```

Run 3: Report of Verus — Data Link

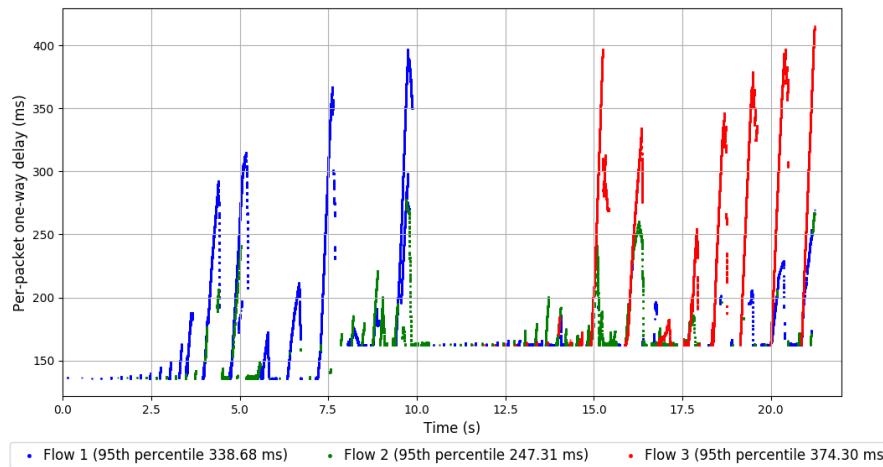
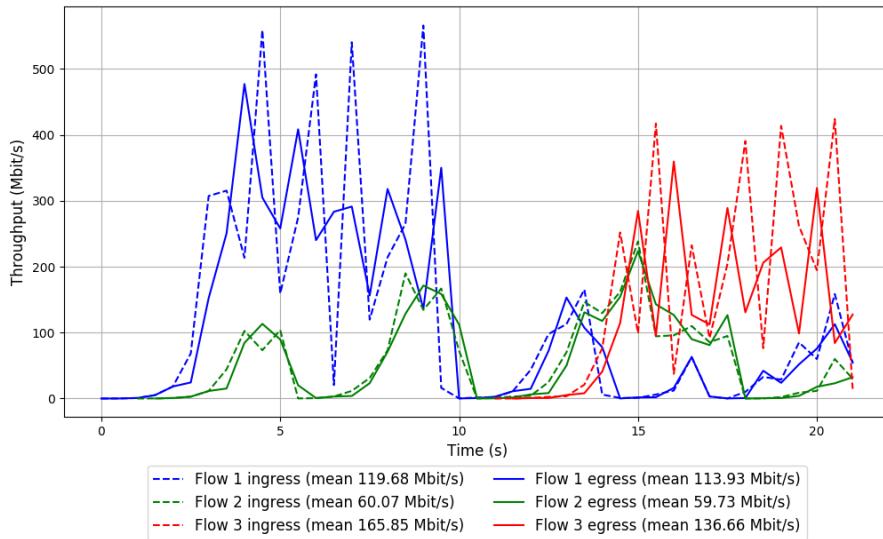


Run 4: Statistics of Verus

Start at: 2017-12-06 10:53:14

End at: 2017-12-06 10:53:44

Run 4: Report of Verus — Data Link



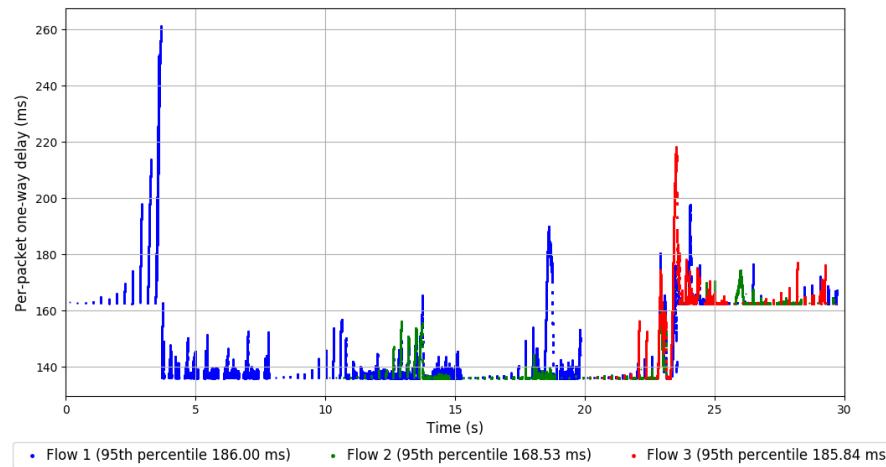
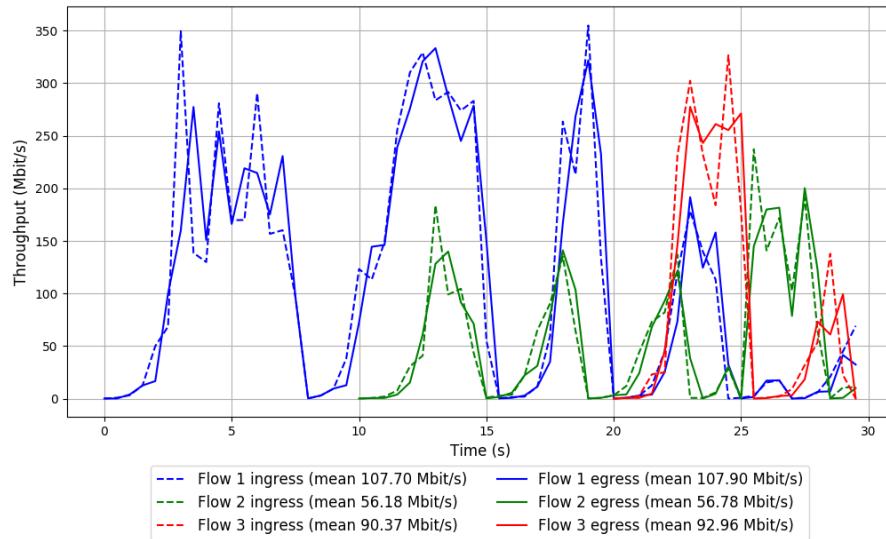
Run 5: Statistics of Verus

Start at: 2017-12-06 11:07:07

End at: 2017-12-06 11:07:37

```
# Below is generated by plot.py at 2017-12-06 15:10:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 175.08 Mbit/s
95th percentile per-packet one-way delay: 180.892 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 107.90 Mbit/s
95th percentile per-packet one-way delay: 186.005 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 56.78 Mbit/s
95th percentile per-packet one-way delay: 168.529 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 92.96 Mbit/s
95th percentile per-packet one-way delay: 185.835 ms
Loss rate: 0.01%
```

Run 5: Report of Verus — Data Link



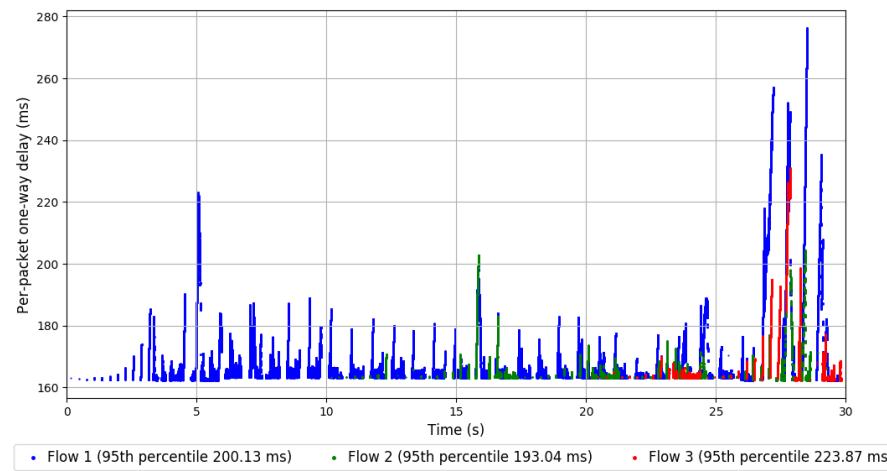
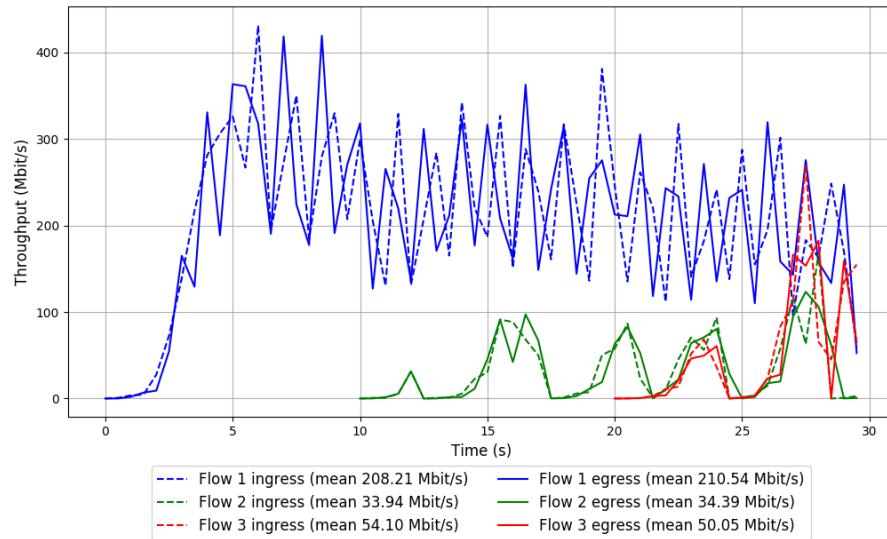
Run 6: Statistics of Verus

Start at: 2017-12-06 11:20:25

End at: 2017-12-06 11:20:55

```
# Below is generated by plot.py at 2017-12-06 15:10:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 248.16 Mbit/s
95th percentile per-packet one-way delay: 201.420 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 210.54 Mbit/s
95th percentile per-packet one-way delay: 200.133 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 34.39 Mbit/s
95th percentile per-packet one-way delay: 193.040 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 50.05 Mbit/s
95th percentile per-packet one-way delay: 223.867 ms
Loss rate: 10.26%
```

Run 6: Report of Verus — Data Link



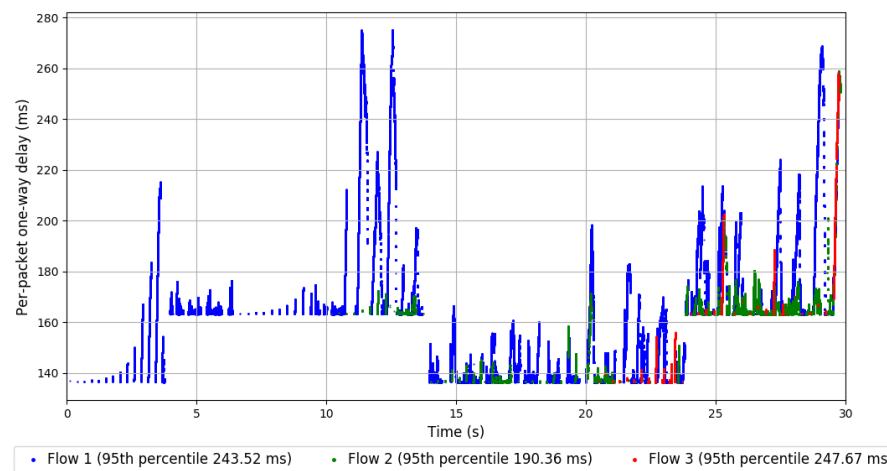
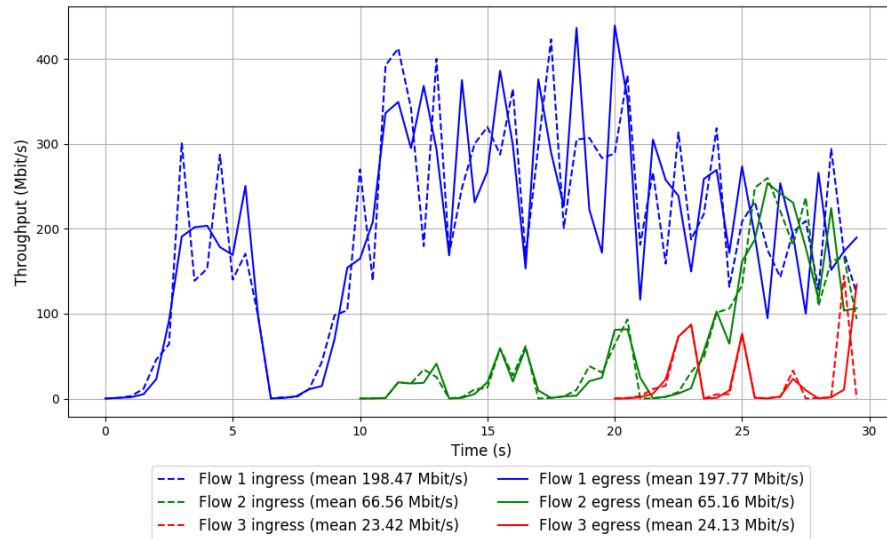
Run 7: Statistics of Verus

Start at: 2017-12-06 11:33:47

End at: 2017-12-06 11:34:17

```
# Below is generated by plot.py at 2017-12-06 15:10:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 248.64 Mbit/s
95th percentile per-packet one-way delay: 239.578 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 197.77 Mbit/s
95th percentile per-packet one-way delay: 243.519 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 65.16 Mbit/s
95th percentile per-packet one-way delay: 190.358 ms
Loss rate: 2.31%
-- Flow 3:
Average throughput: 24.13 Mbit/s
95th percentile per-packet one-way delay: 247.669 ms
Loss rate: 0.01%
```

Run 7: Report of Verus — Data Link



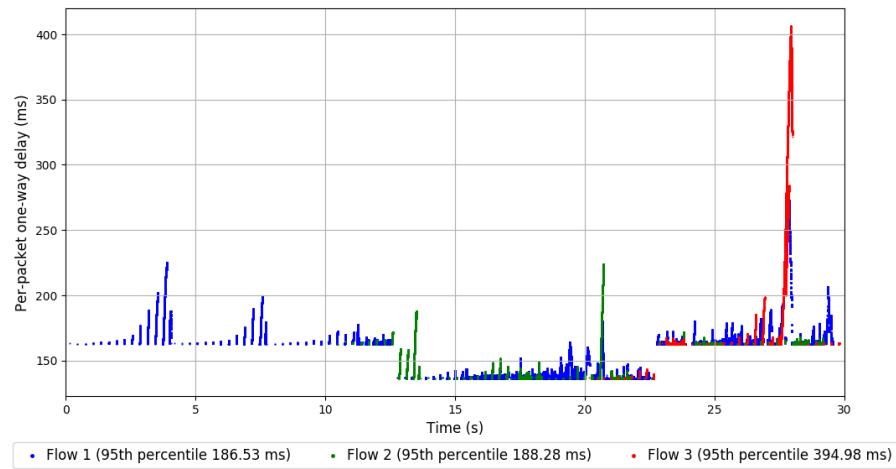
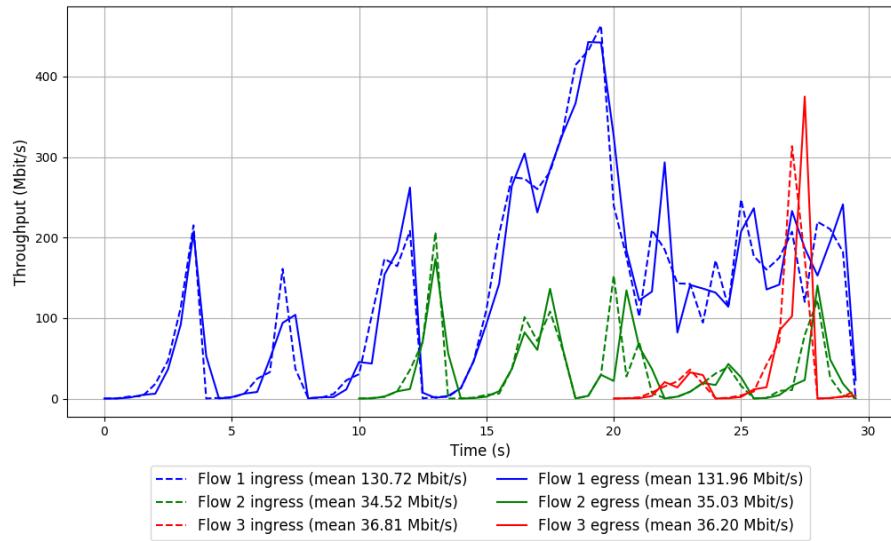
Run 8: Statistics of Verus

Start at: 2017-12-06 11:47:28

End at: 2017-12-06 11:47:58

```
# Below is generated by plot.py at 2017-12-06 15:10:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 165.85 Mbit/s
95th percentile per-packet one-way delay: 203.054 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 131.96 Mbit/s
95th percentile per-packet one-way delay: 186.534 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 35.03 Mbit/s
95th percentile per-packet one-way delay: 188.281 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 36.20 Mbit/s
95th percentile per-packet one-way delay: 394.981 ms
Loss rate: 4.37%
```

Run 8: Report of Verus — Data Link

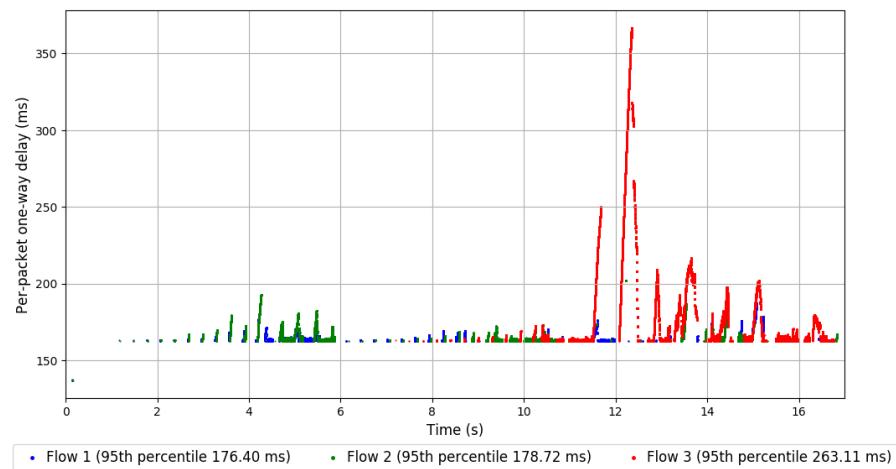
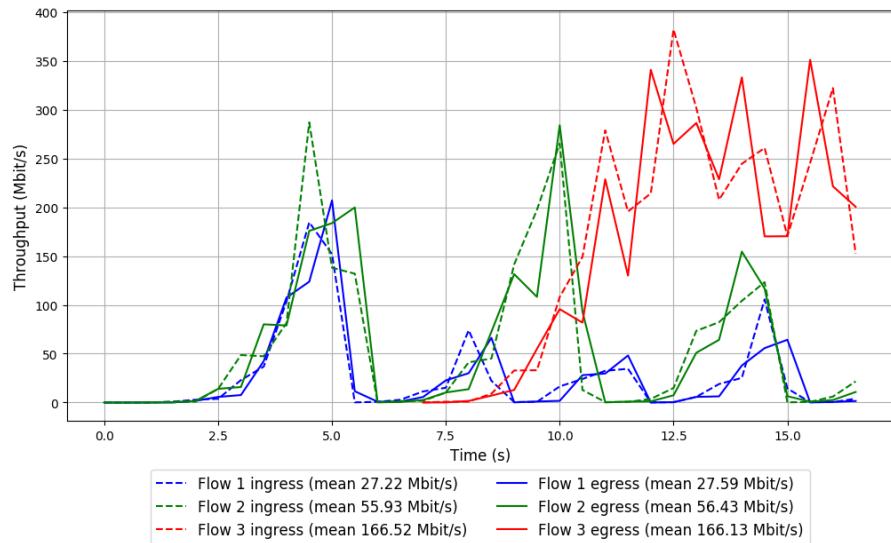


Run 9: Statistics of Verus

Start at: 2017-12-06 12:00:49

End at: 2017-12-06 12:01:19

Run 9: Report of Verus — Data Link



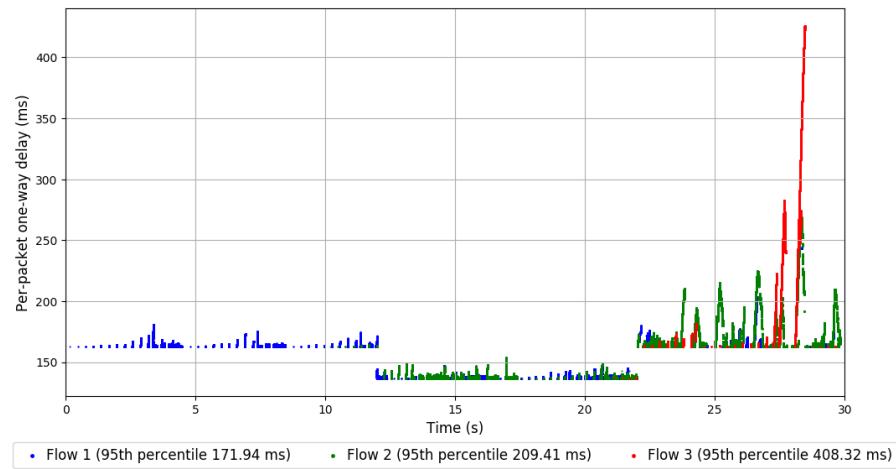
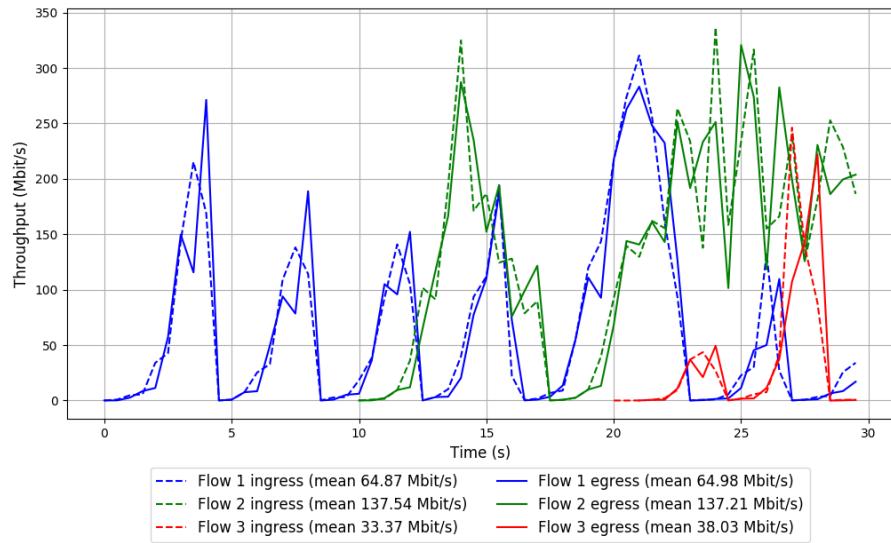
Run 10: Statistics of Verus

Start at: 2017-12-06 12:14:09

End at: 2017-12-06 12:14:39

```
# Below is generated by plot.py at 2017-12-06 15:10:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 166.17 Mbit/s
95th percentile per-packet one-way delay: 216.445 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 64.98 Mbit/s
95th percentile per-packet one-way delay: 171.939 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 137.21 Mbit/s
95th percentile per-packet one-way delay: 209.411 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 38.03 Mbit/s
95th percentile per-packet one-way delay: 408.316 ms
Loss rate: 0.89%
```

Run 10: Report of Verus — Data Link

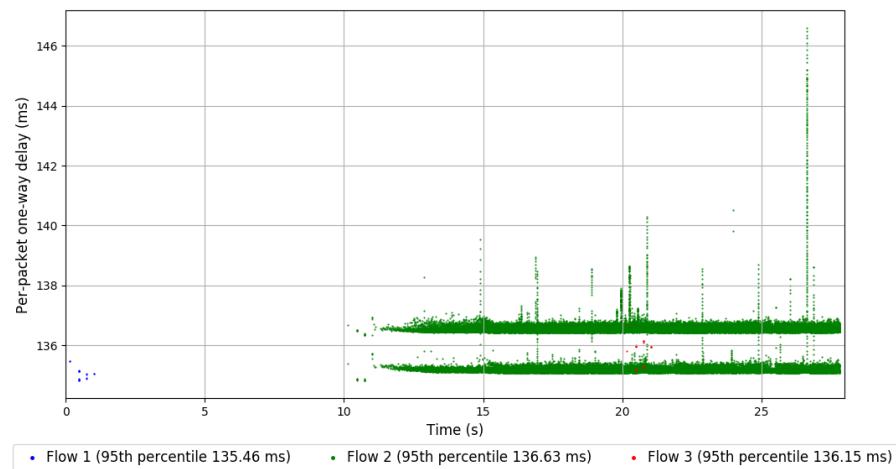
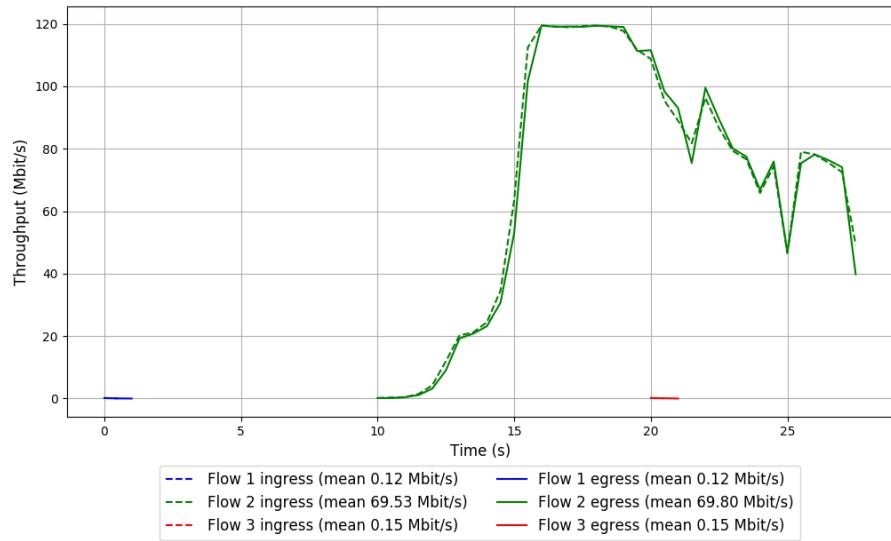


```
Run 1: Statistics of Copa

Start at: 2017-12-06 10:03:48
End at: 2017-12-06 10:04:18

# Below is generated by plot.py at 2017-12-06 15:10:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 44.56 Mbit/s
95th percentile per-packet one-way delay: 136.635 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 135.464 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 69.80 Mbit/s
95th percentile per-packet one-way delay: 136.635 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 136.149 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



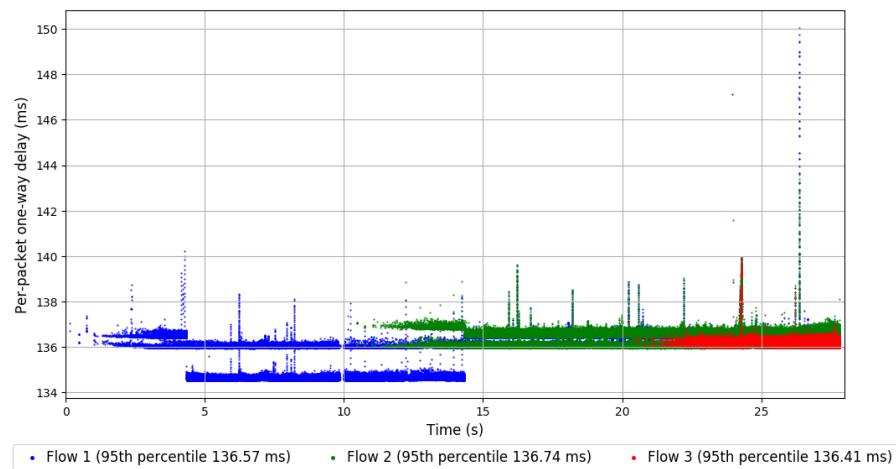
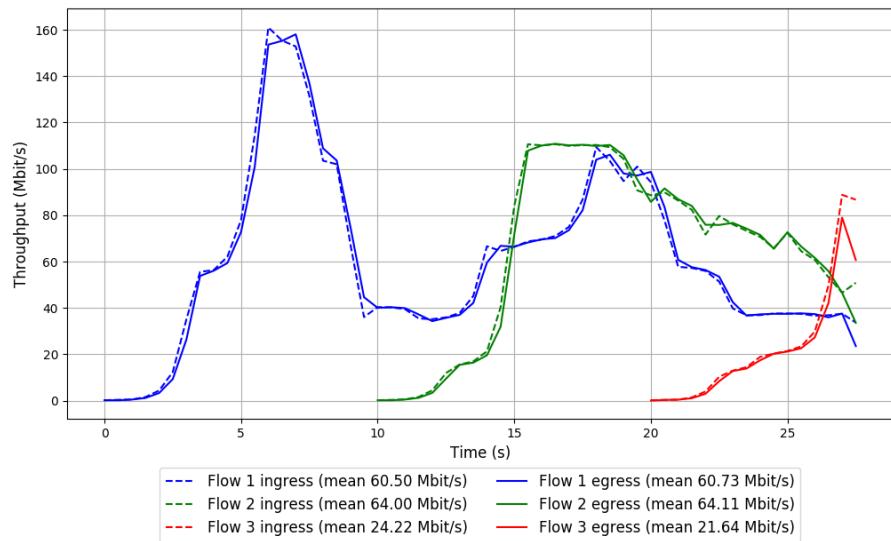
Run 2: Statistics of Copa

Start at: 2017-12-06 10:17:34

End at: 2017-12-06 10:18:04

```
# Below is generated by plot.py at 2017-12-06 15:12:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 107.61 Mbit/s
95th percentile per-packet one-way delay: 136.658 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 60.73 Mbit/s
95th percentile per-packet one-way delay: 136.571 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 64.11 Mbit/s
95th percentile per-packet one-way delay: 136.737 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 21.64 Mbit/s
95th percentile per-packet one-way delay: 136.405 ms
Loss rate: 13.75%
```

Run 2: Report of Copa — Data Link



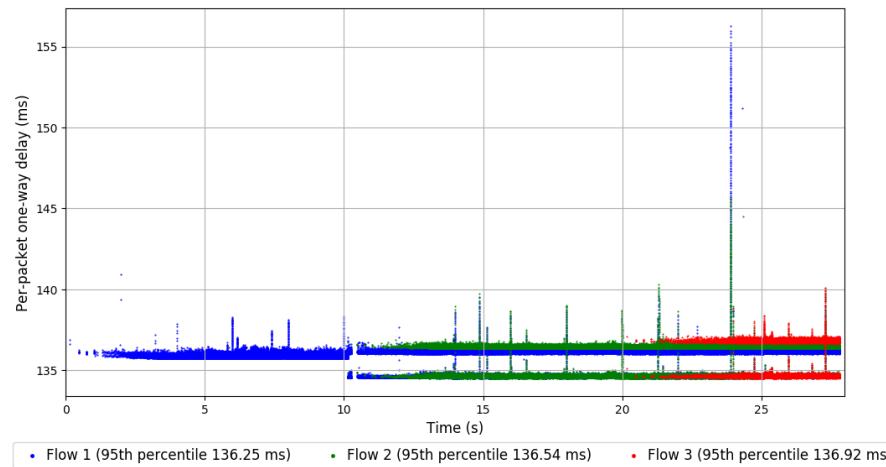
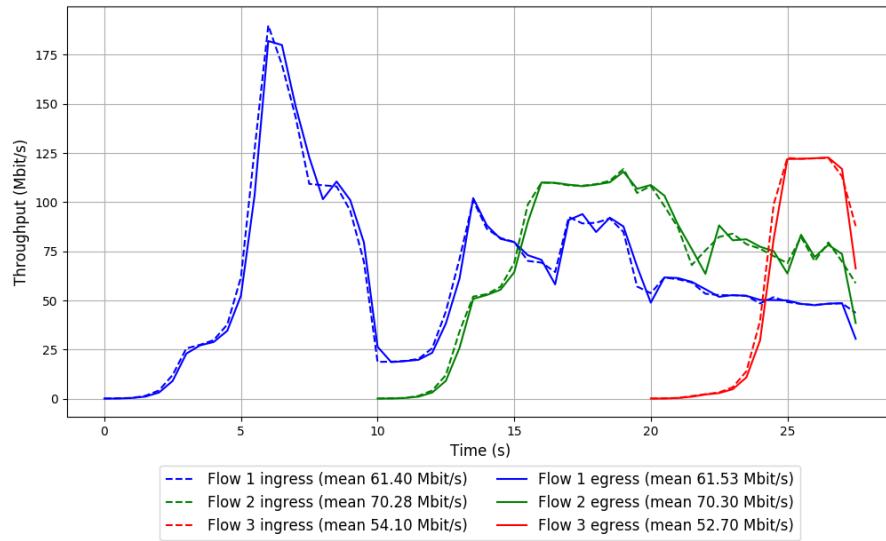
Run 3: Statistics of Copa

Start at: 2017-12-06 10:31:18

End at: 2017-12-06 10:31:49

```
# Below is generated by plot.py at 2017-12-06 15:12:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 120.97 Mbit/s
95th percentile per-packet one-way delay: 136.755 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 61.53 Mbit/s
95th percentile per-packet one-way delay: 136.254 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 70.30 Mbit/s
95th percentile per-packet one-way delay: 136.537 ms
Loss rate: 1.48%
-- Flow 3:
Average throughput: 52.70 Mbit/s
95th percentile per-packet one-way delay: 136.917 ms
Loss rate: 5.91%
```

Run 3: Report of Copa — Data Link



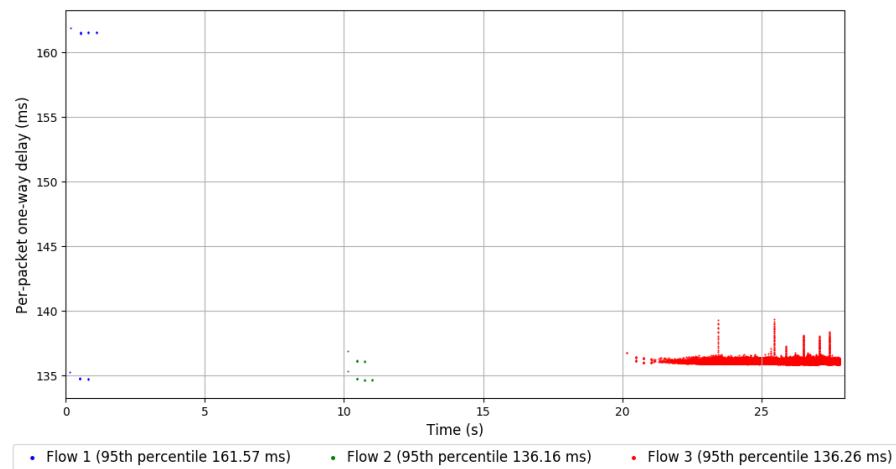
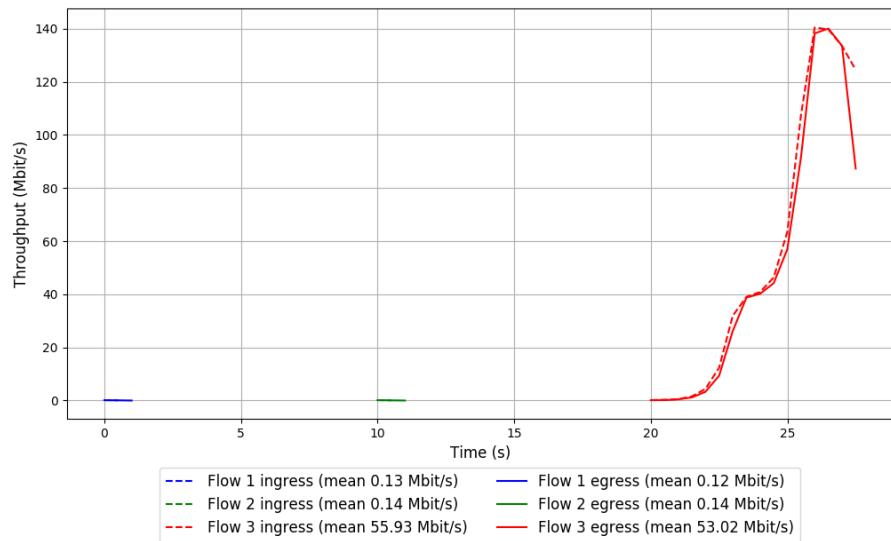
Run 4: Statistics of Copa

Start at: 2017-12-06 10:45:01

End at: 2017-12-06 10:45:31

```
# Below is generated by plot.py at 2017-12-06 15:12:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.68 Mbit/s
95th percentile per-packet one-way delay: 136.260 ms
Loss rate: 8.45%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 161.573 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 136.156 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 53.02 Mbit/s
95th percentile per-packet one-way delay: 136.260 ms
Loss rate: 8.46%
```

Run 4: Report of Copa — Data Link



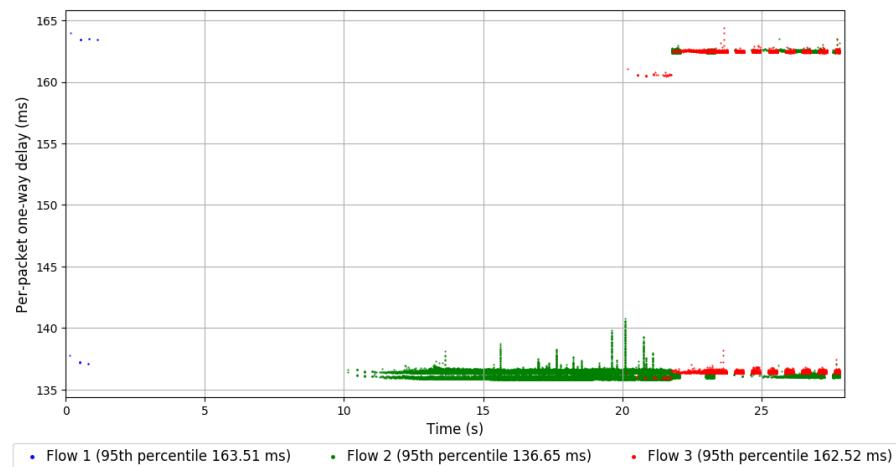
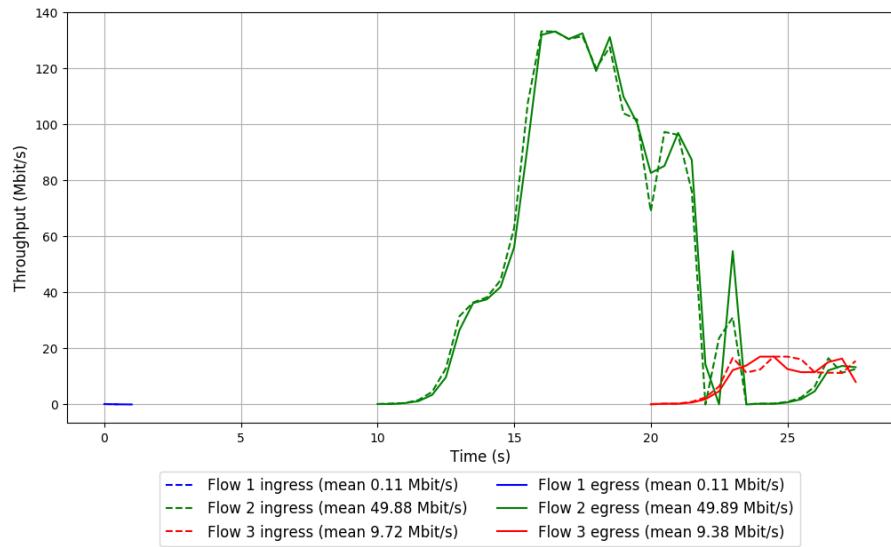
Run 5: Statistics of Copa

Start at: 2017-12-06 10:58:47

End at: 2017-12-06 10:59:17

```
# Below is generated by plot.py at 2017-12-06 15:12:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 34.45 Mbit/s
95th percentile per-packet one-way delay: 162.429 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 163.509 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 49.89 Mbit/s
95th percentile per-packet one-way delay: 136.649 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 9.38 Mbit/s
95th percentile per-packet one-way delay: 162.520 ms
Loss rate: 5.01%
```

Run 5: Report of Copa — Data Link



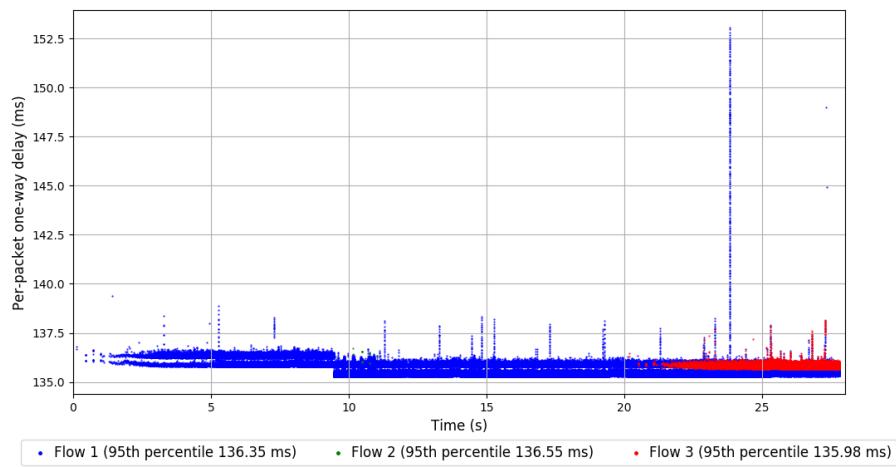
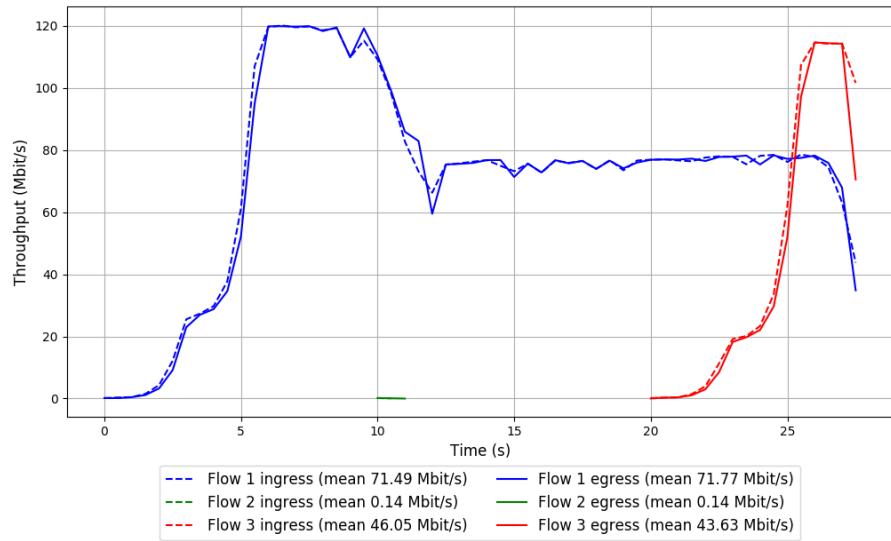
Run 6: Statistics of Copa

Start at: 2017-12-06 11:12:39

End at: 2017-12-06 11:13:09

```
# Below is generated by plot.py at 2017-12-06 15:12:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.81 Mbit/s
95th percentile per-packet one-way delay: 136.338 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 71.77 Mbit/s
95th percentile per-packet one-way delay: 136.350 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 136.548 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 43.63 Mbit/s
95th percentile per-packet one-way delay: 135.978 ms
Loss rate: 8.53%
```

Run 6: Report of Copa — Data Link



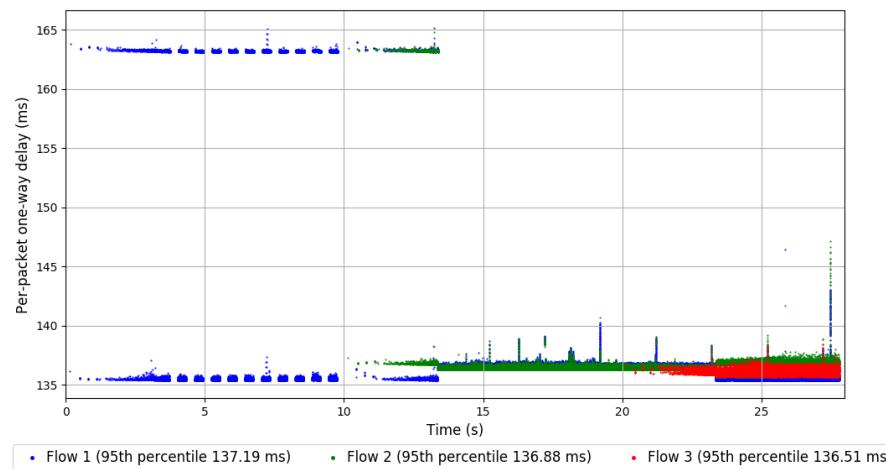
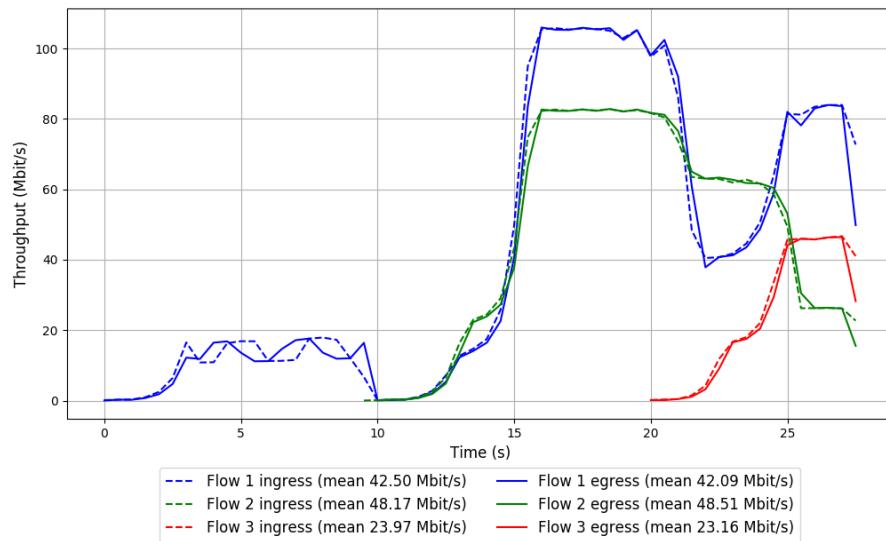
Run 7: Statistics of Copa

Start at: 2017-12-06 11:26:05

End at: 2017-12-06 11:26:35

```
# Below is generated by plot.py at 2017-12-06 15:12:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.48 Mbit/s
95th percentile per-packet one-way delay: 136.866 ms
Loss rate: 1.91%
-- Flow 1:
Average throughput: 42.09 Mbit/s
95th percentile per-packet one-way delay: 137.190 ms
Loss rate: 1.93%
-- Flow 2:
Average throughput: 48.51 Mbit/s
95th percentile per-packet one-way delay: 136.883 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 23.16 Mbit/s
95th percentile per-packet one-way delay: 136.510 ms
Loss rate: 6.71%
```

Run 7: Report of Copa — Data Link



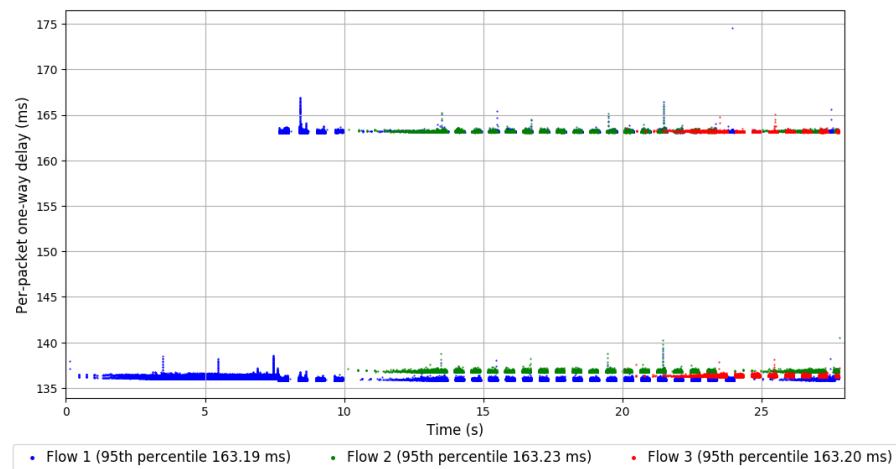
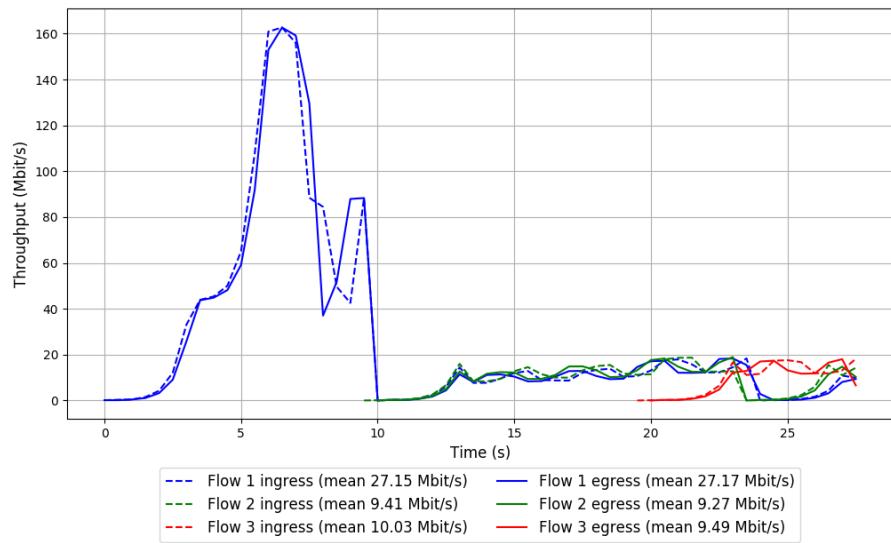
Run 8: Statistics of Copa

Start at: 2017-12-06 11:39:31

End at: 2017-12-06 11:40:01

```
# Below is generated by plot.py at 2017-12-06 15:12:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.71 Mbit/s
95th percentile per-packet one-way delay: 163.198 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 27.17 Mbit/s
95th percentile per-packet one-way delay: 163.189 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 9.27 Mbit/s
95th percentile per-packet one-way delay: 163.228 ms
Loss rate: 2.07%
-- Flow 3:
Average throughput: 9.49 Mbit/s
95th percentile per-packet one-way delay: 163.202 ms
Loss rate: 7.37%
```

Run 8: Report of Copa — Data Link



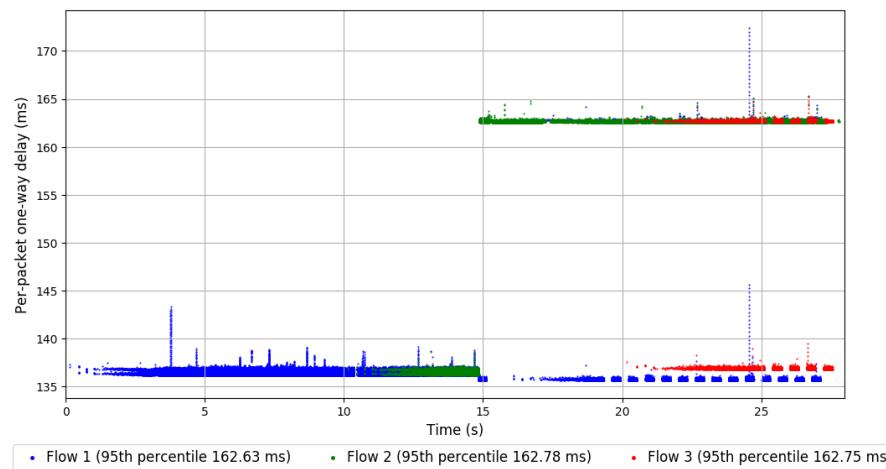
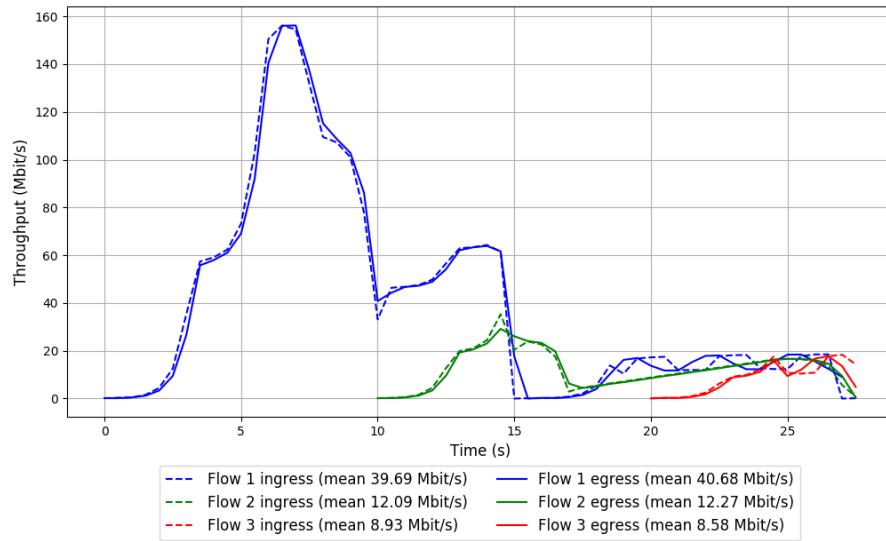
Run 9: Statistics of Copa

Start at: 2017-12-06 11:53:04

End at: 2017-12-06 11:53:34

```
# Below is generated by plot.py at 2017-12-06 15:12:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.85 Mbit/s
95th percentile per-packet one-way delay: 162.697 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 40.68 Mbit/s
95th percentile per-packet one-way delay: 162.633 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 12.27 Mbit/s
95th percentile per-packet one-way delay: 162.775 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 8.58 Mbit/s
95th percentile per-packet one-way delay: 162.751 ms
Loss rate: 10.08%
```

Run 9: Report of Copa — Data Link



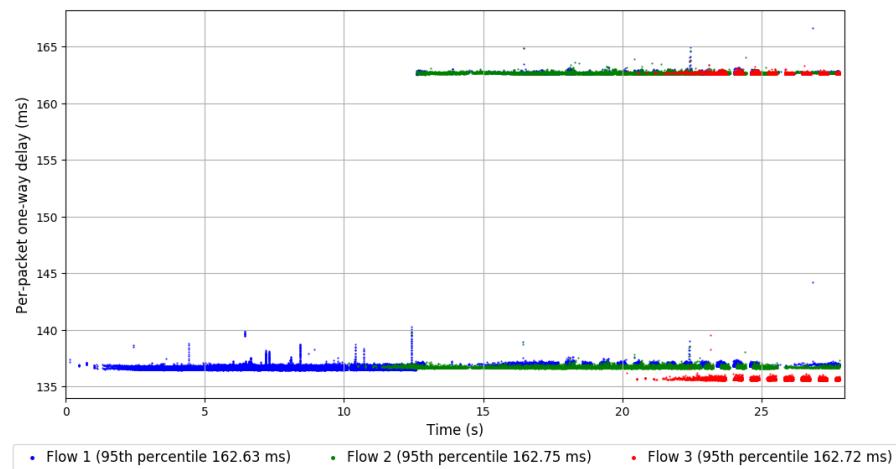
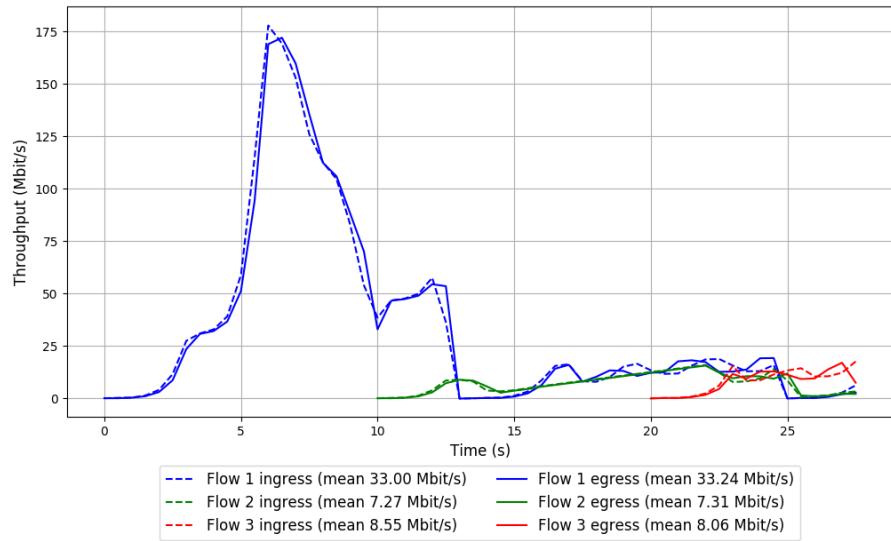
Run 10: Statistics of Copa

Start at: 2017-12-06 12:06:16

End at: 2017-12-06 12:06:46

```
# Below is generated by plot.py at 2017-12-06 15:12:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.13 Mbit/s
95th percentile per-packet one-way delay: 162.677 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 33.24 Mbit/s
95th percentile per-packet one-way delay: 162.628 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 7.31 Mbit/s
95th percentile per-packet one-way delay: 162.749 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 8.06 Mbit/s
95th percentile per-packet one-way delay: 162.724 ms
Loss rate: 7.58%
```

Run 10: Report of Copa — Data Link



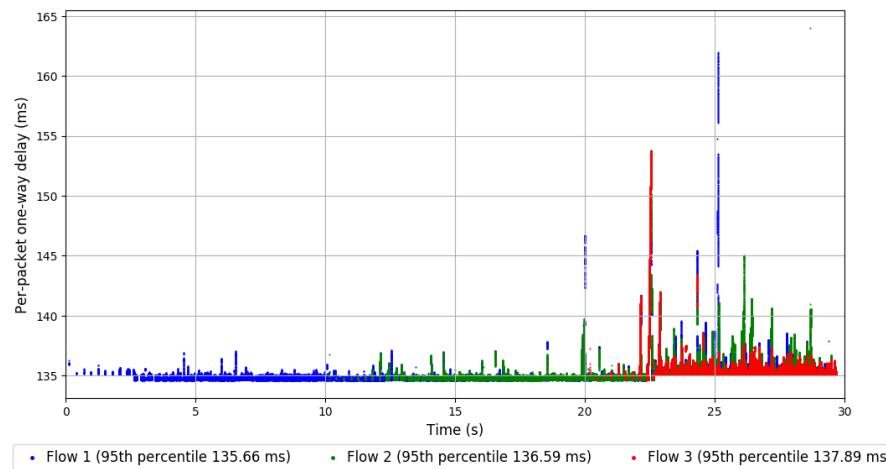
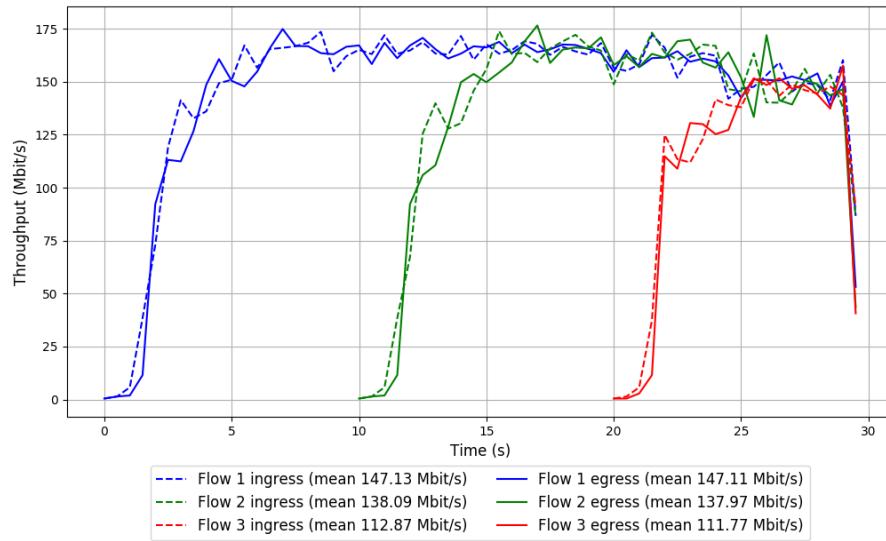
Run 1: Statistics of Indigo

Start at: 2017-12-06 10:07:58

End at: 2017-12-06 10:08:28

```
# Below is generated by plot.py at 2017-12-06 15:15:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 274.18 Mbit/s
95th percentile per-packet one-way delay: 136.147 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 147.11 Mbit/s
95th percentile per-packet one-way delay: 135.664 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 137.97 Mbit/s
95th percentile per-packet one-way delay: 136.585 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 111.77 Mbit/s
95th percentile per-packet one-way delay: 137.890 ms
Loss rate: 3.74%
```

Run 1: Report of Indigo — Data Link



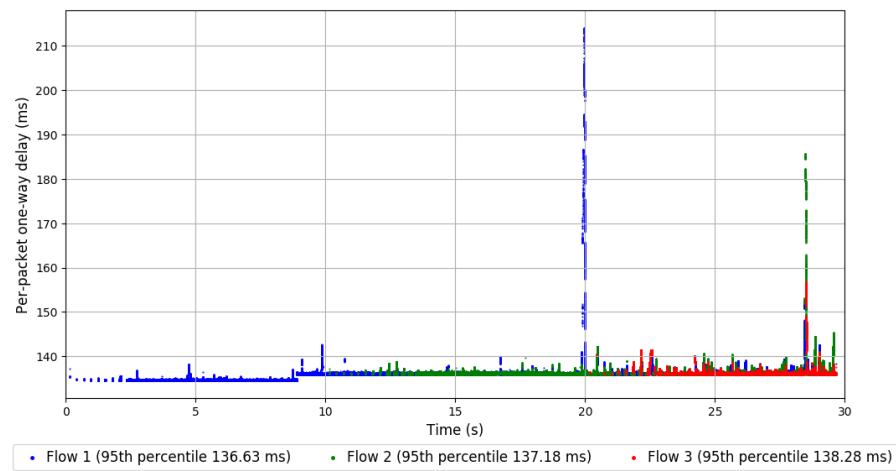
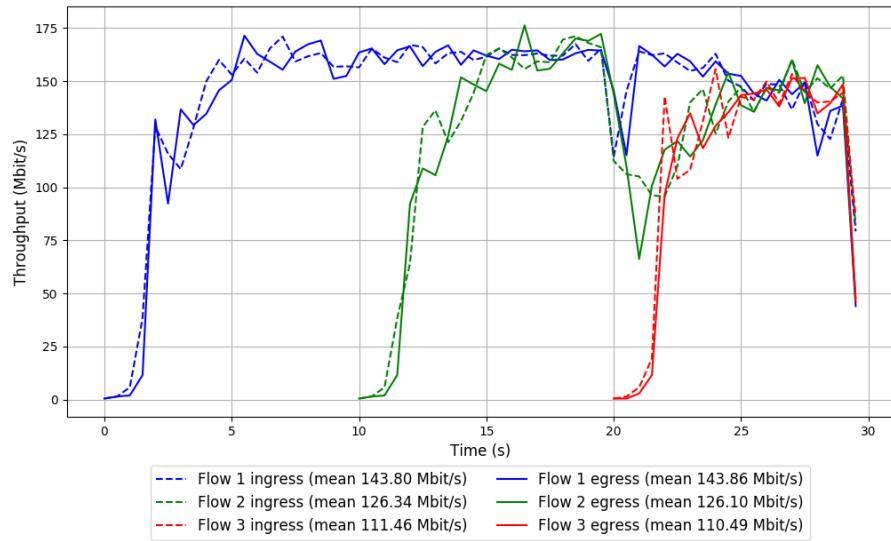
Run 2: Statistics of Indigo

Start at: 2017-12-06 10:21:52

End at: 2017-12-06 10:22:22

```
# Below is generated by plot.py at 2017-12-06 15:15:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 262.64 Mbit/s
95th percentile per-packet one-way delay: 136.972 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 143.86 Mbit/s
95th percentile per-packet one-way delay: 136.626 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 126.10 Mbit/s
95th percentile per-packet one-way delay: 137.180 ms
Loss rate: 1.62%
-- Flow 3:
Average throughput: 110.49 Mbit/s
95th percentile per-packet one-way delay: 138.282 ms
Loss rate: 3.62%
```

Run 2: Report of Indigo — Data Link



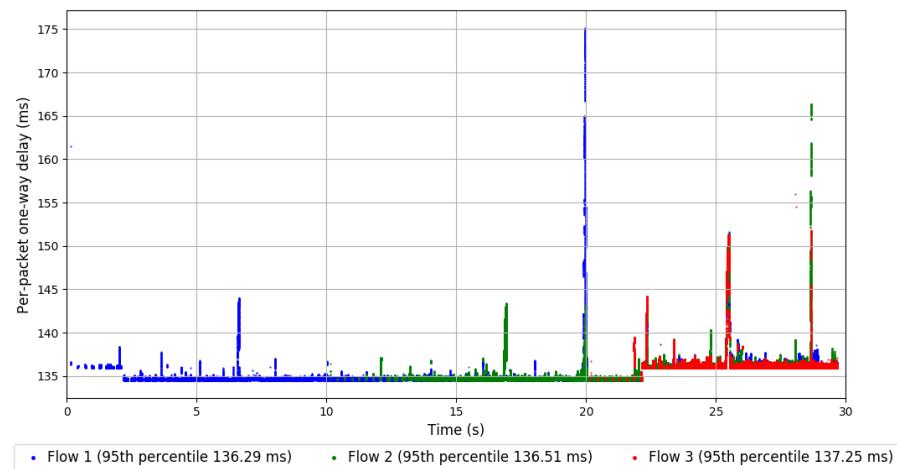
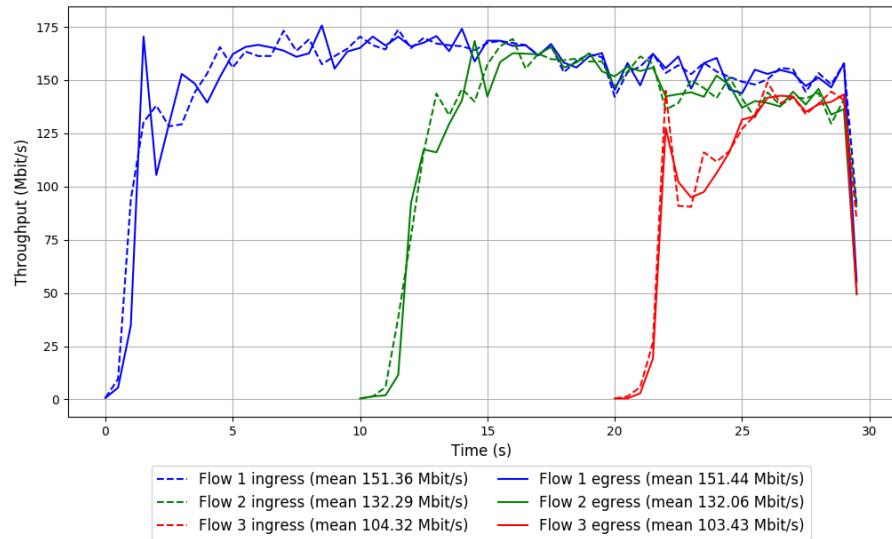
Run 3: Statistics of Indigo

Start at: 2017-12-06 10:35:38

End at: 2017-12-06 10:36:08

```
# Below is generated by plot.py at 2017-12-06 15:16:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 271.97 Mbit/s
95th percentile per-packet one-way delay: 136.445 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 151.44 Mbit/s
95th percentile per-packet one-way delay: 136.293 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 132.06 Mbit/s
95th percentile per-packet one-way delay: 136.514 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 103.43 Mbit/s
95th percentile per-packet one-way delay: 137.255 ms
Loss rate: 3.59%
```

Run 3: Report of Indigo — Data Link



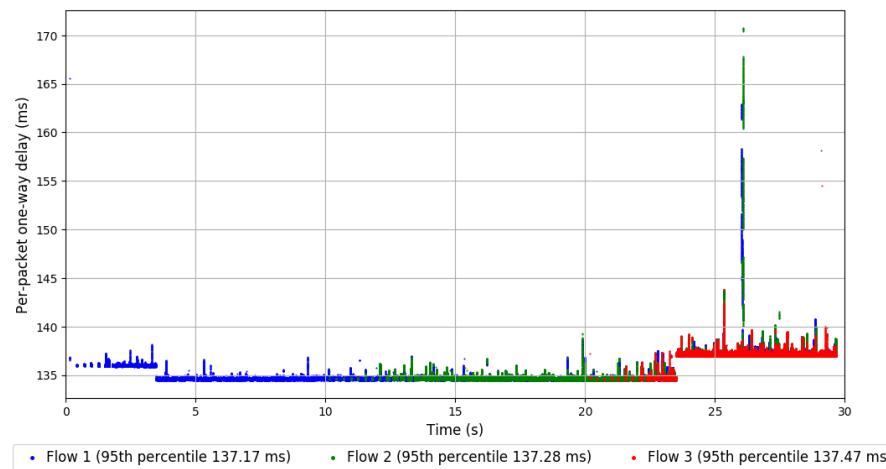
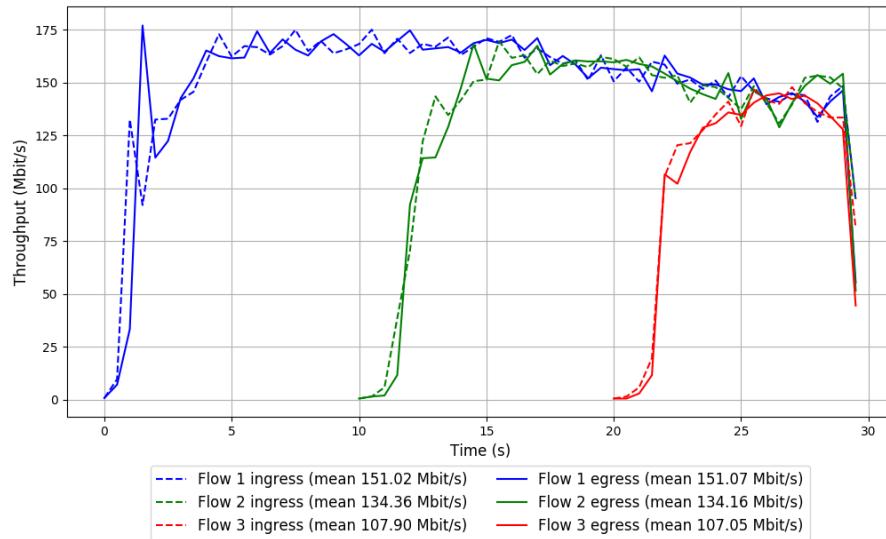
Run 4: Statistics of Indigo

Start at: 2017-12-06 10:49:07

End at: 2017-12-06 10:49:37

```
# Below is generated by plot.py at 2017-12-06 15:16:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 274.16 Mbit/s
95th percentile per-packet one-way delay: 137.255 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 151.07 Mbit/s
95th percentile per-packet one-way delay: 137.171 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 134.16 Mbit/s
95th percentile per-packet one-way delay: 137.280 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 107.05 Mbit/s
95th percentile per-packet one-way delay: 137.466 ms
Loss rate: 3.55%
```

Run 4: Report of Indigo — Data Link



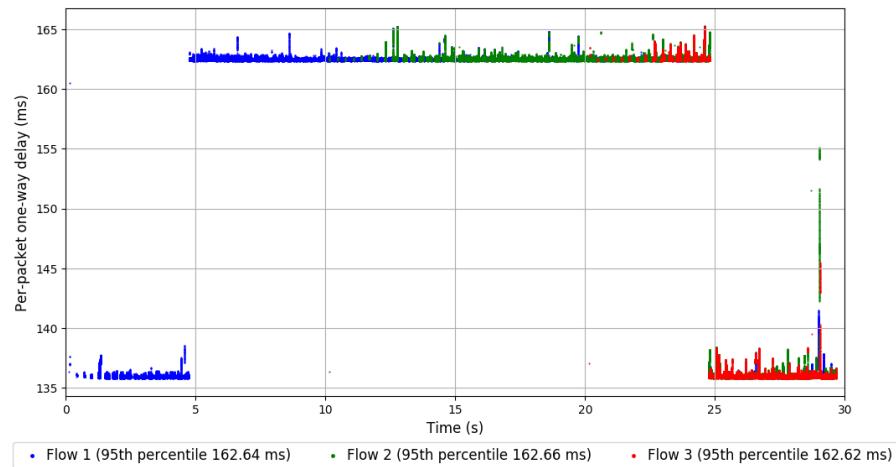
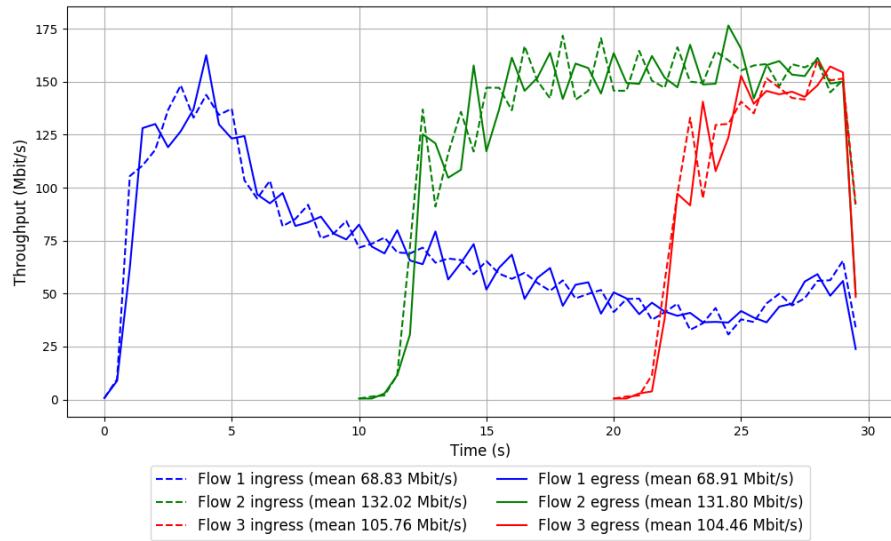
Run 5: Statistics of Indigo

Start at: 2017-12-06 11:02:56

End at: 2017-12-06 11:03:26

```
# Below is generated by plot.py at 2017-12-06 15:16:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 189.51 Mbit/s
95th percentile per-packet one-way delay: 162.647 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 68.91 Mbit/s
95th percentile per-packet one-way delay: 162.637 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 131.80 Mbit/s
95th percentile per-packet one-way delay: 162.665 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 104.46 Mbit/s
95th percentile per-packet one-way delay: 162.625 ms
Loss rate: 4.01%
```

Run 5: Report of Indigo — Data Link



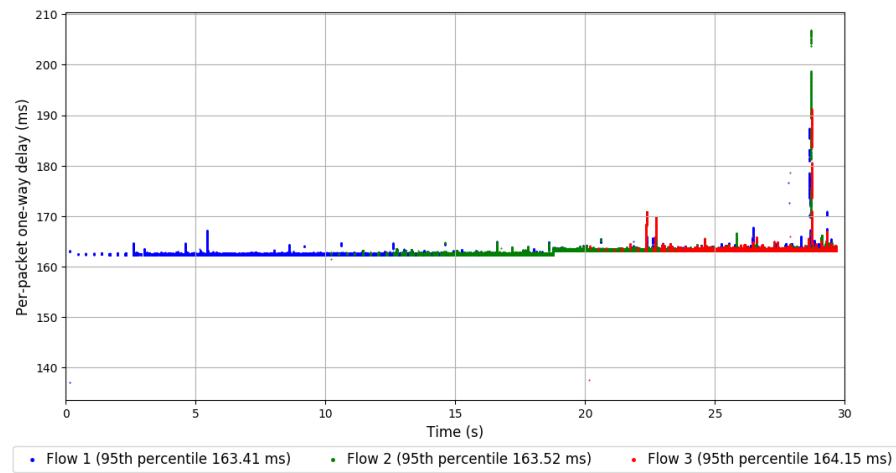
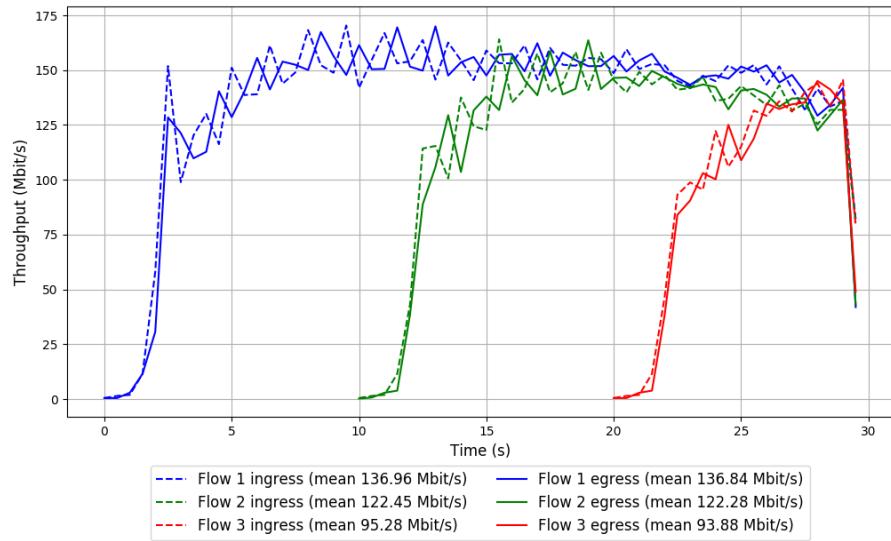
Run 6: Statistics of Indigo

Start at: 2017-12-06 11:16:32

End at: 2017-12-06 11:17:02

```
# Below is generated by plot.py at 2017-12-06 15:16:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 247.57 Mbit/s
95th percentile per-packet one-way delay: 163.518 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 136.84 Mbit/s
95th percentile per-packet one-way delay: 163.415 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 122.28 Mbit/s
95th percentile per-packet one-way delay: 163.518 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 93.88 Mbit/s
95th percentile per-packet one-way delay: 164.150 ms
Loss rate: 4.22%
```

Run 6: Report of Indigo — Data Link



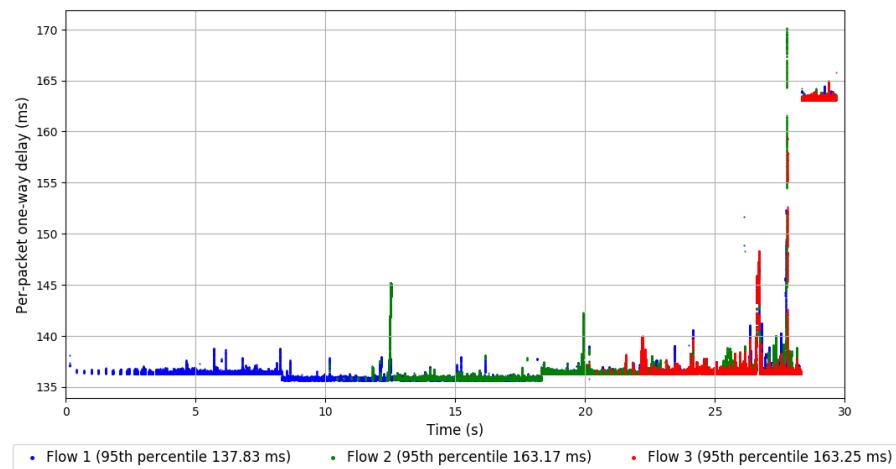
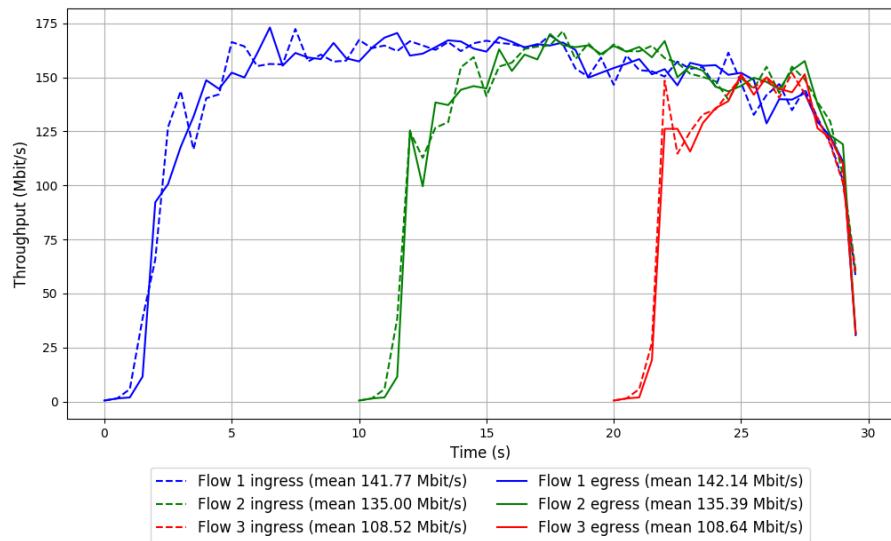
Run 7: Statistics of Indigo

Start at: 2017-12-06 11:29:52

End at: 2017-12-06 11:30:22

```
# Below is generated by plot.py at 2017-12-06 15:16:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 266.58 Mbit/s
95th percentile per-packet one-way delay: 163.167 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 142.14 Mbit/s
95th percentile per-packet one-way delay: 137.830 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 135.39 Mbit/s
95th percentile per-packet one-way delay: 163.172 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 108.64 Mbit/s
95th percentile per-packet one-way delay: 163.252 ms
Loss rate: 2.65%
```

Run 7: Report of Indigo — Data Link



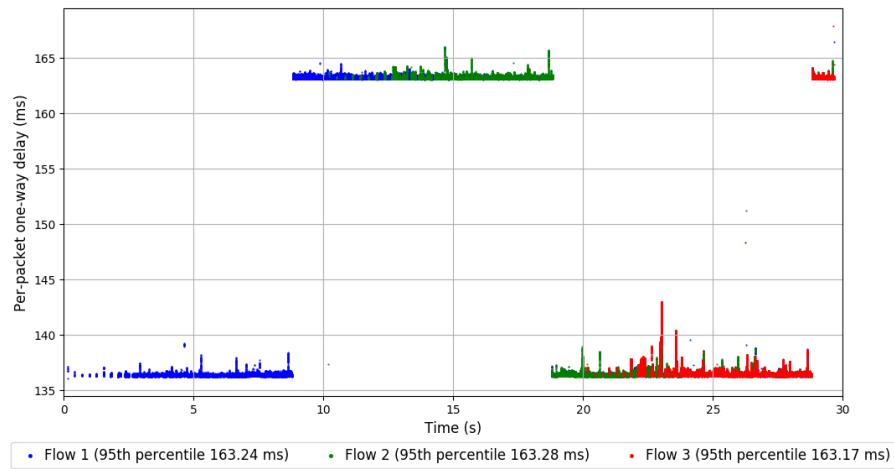
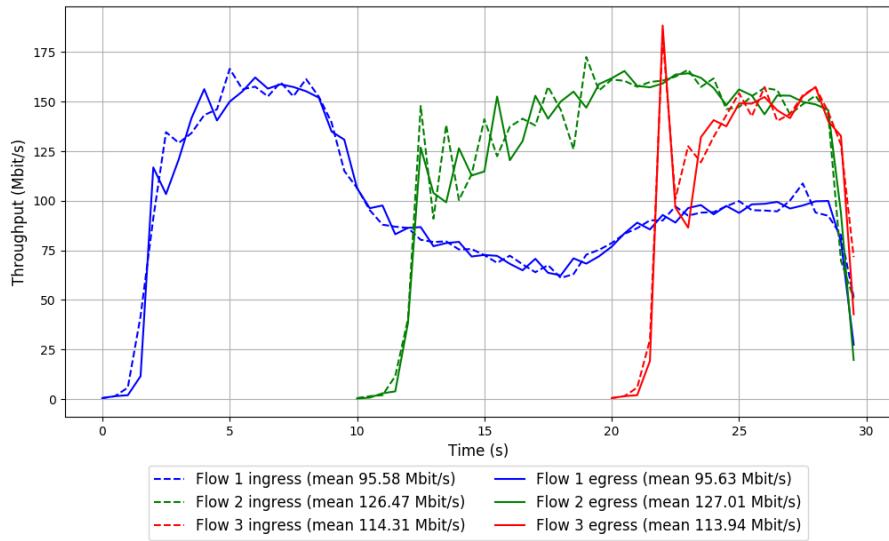
Run 8: Statistics of Indigo

Start at: 2017-12-06 11:43:42

End at: 2017-12-06 11:44:12

```
# Below is generated by plot.py at 2017-12-06 15:16:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 216.16 Mbit/s
95th percentile per-packet one-way delay: 163.244 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 163.239 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 127.01 Mbit/s
95th percentile per-packet one-way delay: 163.276 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 113.94 Mbit/s
95th percentile per-packet one-way delay: 163.173 ms
Loss rate: 3.10%
```

Run 8: Report of Indigo — Data Link



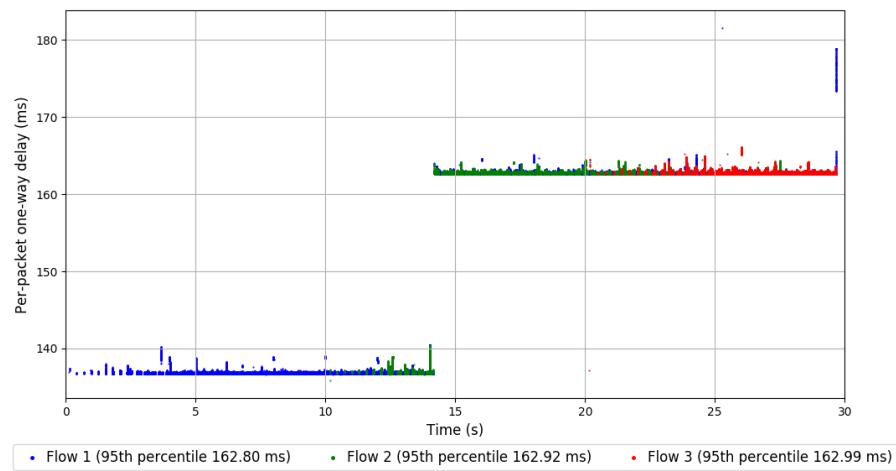
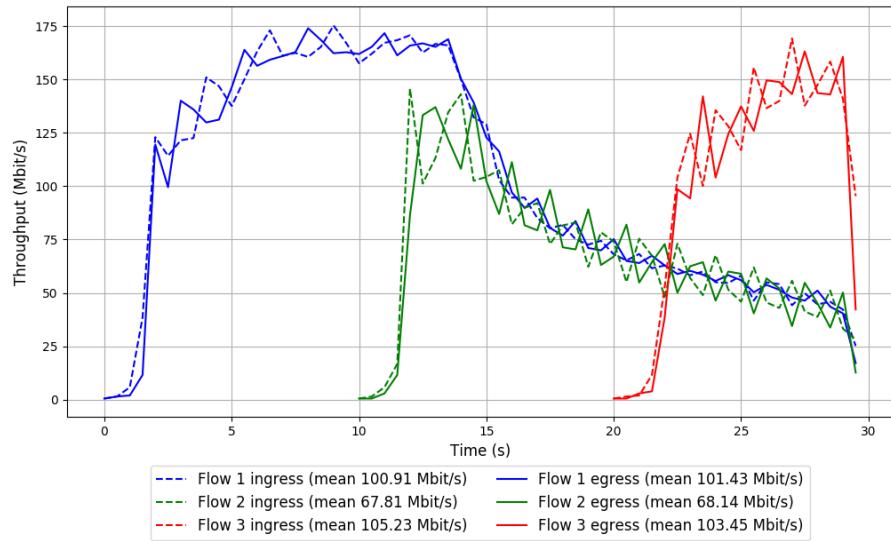
Run 9: Statistics of Indigo

Start at: 2017-12-06 11:56:56

End at: 2017-12-06 11:57:26

```
# Below is generated by plot.py at 2017-12-06 15:18:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 179.70 Mbit/s
95th percentile per-packet one-way delay: 162.870 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 101.43 Mbit/s
95th percentile per-packet one-way delay: 162.802 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 68.14 Mbit/s
95th percentile per-packet one-way delay: 162.924 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 103.45 Mbit/s
95th percentile per-packet one-way delay: 162.987 ms
Loss rate: 4.44%
```

Run 9: Report of Indigo — Data Link



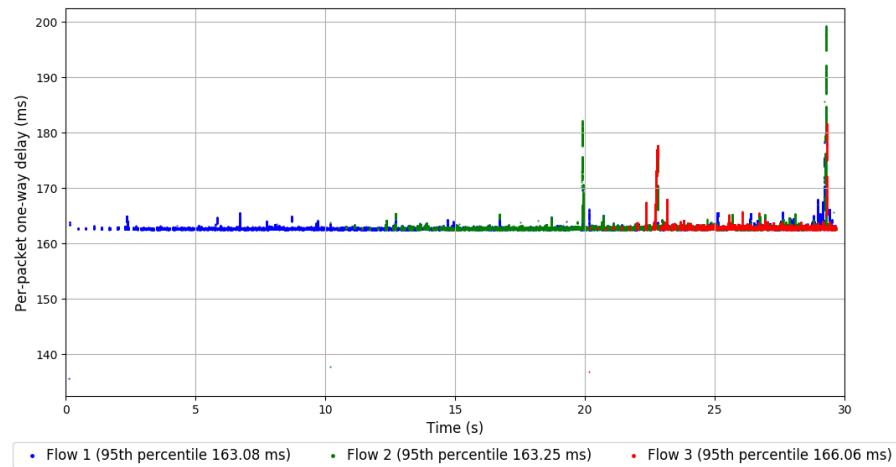
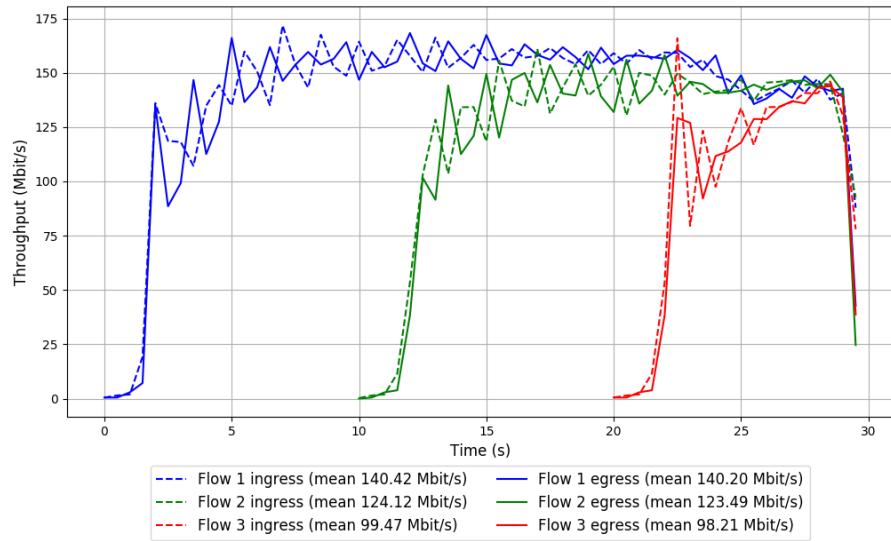
Run 10: Statistics of Indigo

Start at: 2017-12-06 12:10:22

End at: 2017-12-06 12:10:52

```
# Below is generated by plot.py at 2017-12-06 15:19:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 253.24 Mbit/s
95th percentile per-packet one-way delay: 163.224 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 140.20 Mbit/s
95th percentile per-packet one-way delay: 163.077 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 123.49 Mbit/s
95th percentile per-packet one-way delay: 163.250 ms
Loss rate: 1.90%
-- Flow 3:
Average throughput: 98.21 Mbit/s
95th percentile per-packet one-way delay: 166.064 ms
Loss rate: 4.01%
```

Run 10: Report of Indigo — Data Link

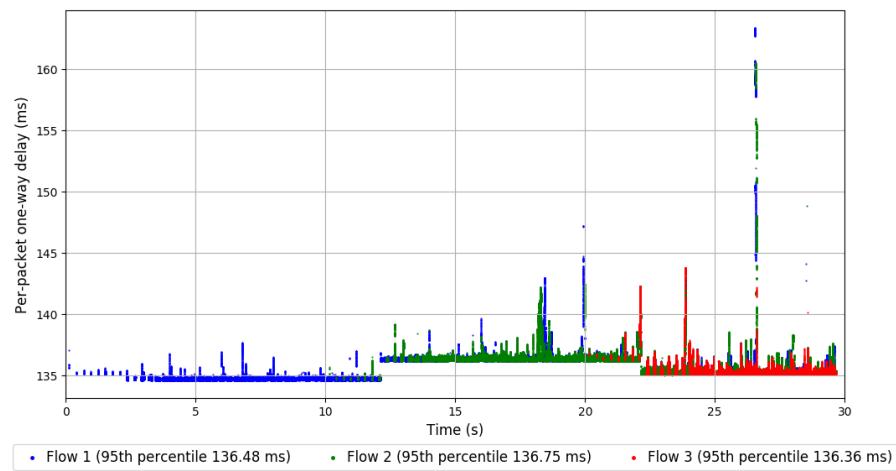
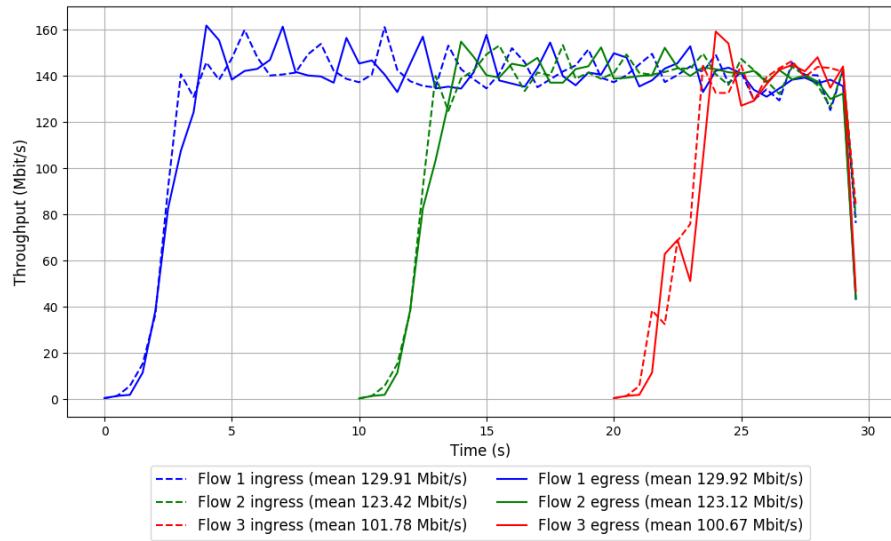


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-06 10:05:58
End at: 2017-12-06 10:06:28

# Below is generated by plot.py at 2017-12-06 15:19:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 243.69 Mbit/s
95th percentile per-packet one-way delay: 136.550 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 129.92 Mbit/s
95th percentile per-packet one-way delay: 136.482 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 123.12 Mbit/s
95th percentile per-packet one-way delay: 136.748 ms
Loss rate: 1.59%
-- Flow 3:
Average throughput: 100.67 Mbit/s
95th percentile per-packet one-way delay: 136.364 ms
Loss rate: 3.86%
```

Run 1: Report of Indigo-calib — Data Link



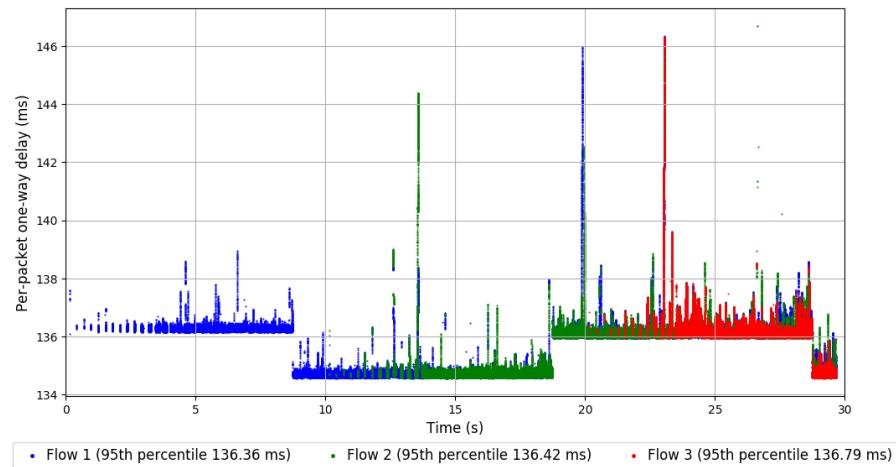
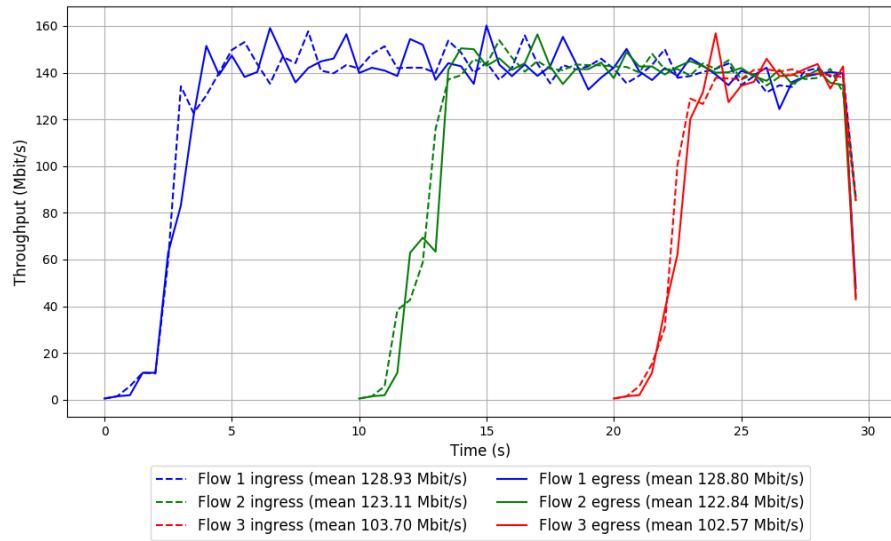
Run 2: Statistics of Indigo-calib

Start at: 2017-12-06 10:19:52

End at: 2017-12-06 10:20:22

```
# Below is generated by plot.py at 2017-12-06 15:20:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 243.03 Mbit/s
95th percentile per-packet one-way delay: 136.433 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 128.80 Mbit/s
95th percentile per-packet one-way delay: 136.356 ms
Loss rate: 1.01%
-- Flow 2:
Average throughput: 122.84 Mbit/s
95th percentile per-packet one-way delay: 136.422 ms
Loss rate: 1.59%
-- Flow 3:
Average throughput: 102.57 Mbit/s
95th percentile per-packet one-way delay: 136.791 ms
Loss rate: 3.85%
```

Run 2: Report of Indigo-calib — Data Link

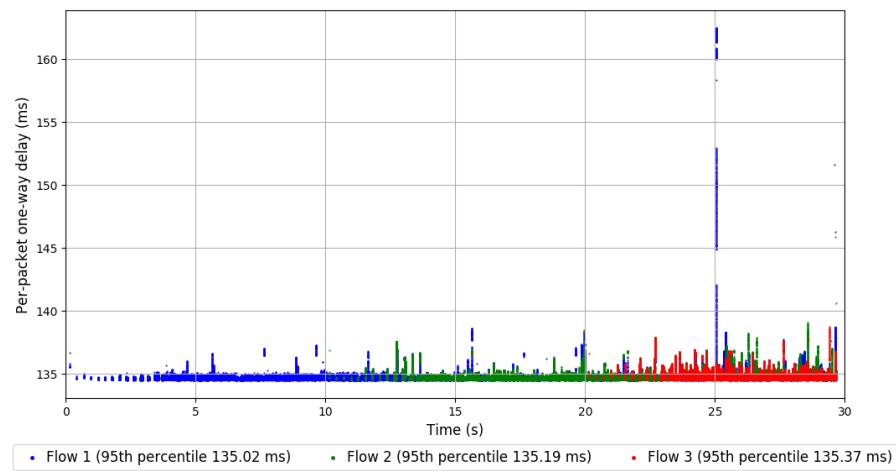
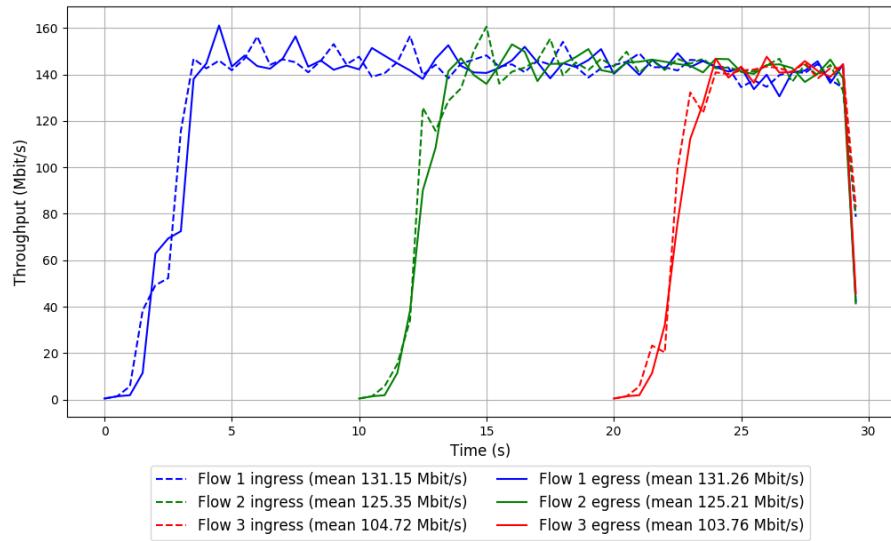


```
Run 3: Statistics of Indigo-calib

Start at: 2017-12-06 10:33:39
End at: 2017-12-06 10:34:09

# Below is generated by plot.py at 2017-12-06 15:20:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 247.42 Mbit/s
95th percentile per-packet one-way delay: 135.145 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 131.26 Mbit/s
95th percentile per-packet one-way delay: 135.019 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 125.21 Mbit/s
95th percentile per-packet one-way delay: 135.194 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 103.76 Mbit/s
95th percentile per-packet one-way delay: 135.372 ms
Loss rate: 3.67%
```

Run 3: Report of Indigo-calib — Data Link

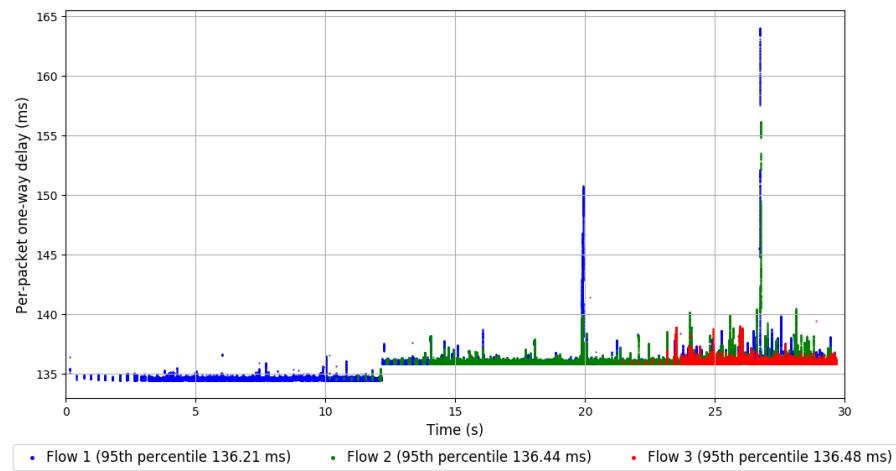
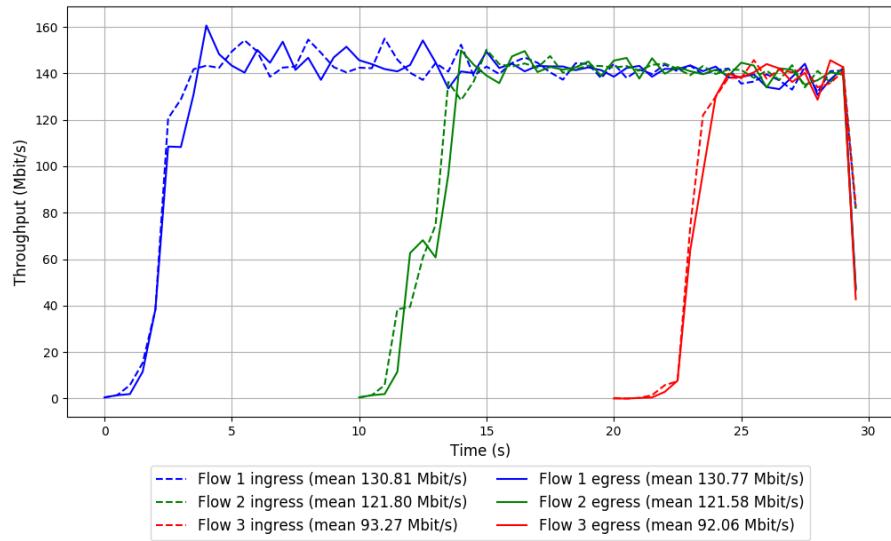


```
Run 4: Statistics of Indigo-calib

Start at: 2017-12-06 10:47:08
End at: 2017-12-06 10:47:38

# Below is generated by plot.py at 2017-12-06 15:20:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 240.62 Mbit/s
95th percentile per-packet one-way delay: 136.324 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 130.77 Mbit/s
95th percentile per-packet one-way delay: 136.206 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 121.58 Mbit/s
95th percentile per-packet one-way delay: 136.436 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 92.06 Mbit/s
95th percentile per-packet one-way delay: 136.476 ms
Loss rate: 4.12%
```

Run 4: Report of Indigo-calib — Data Link

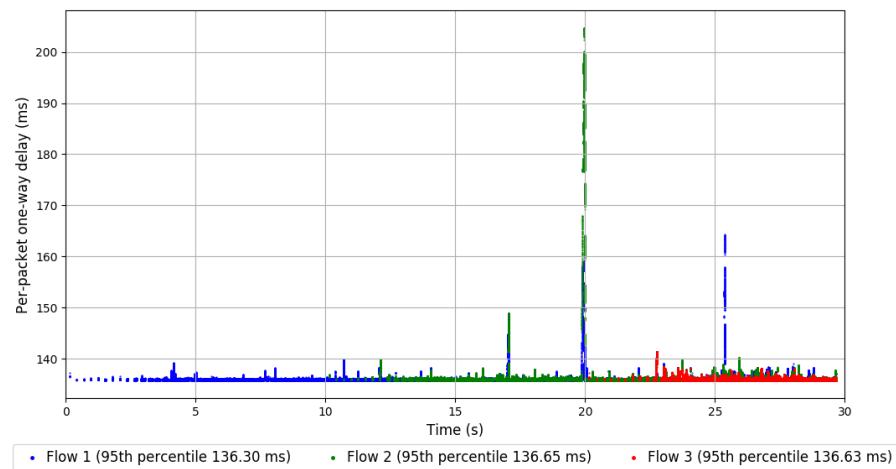
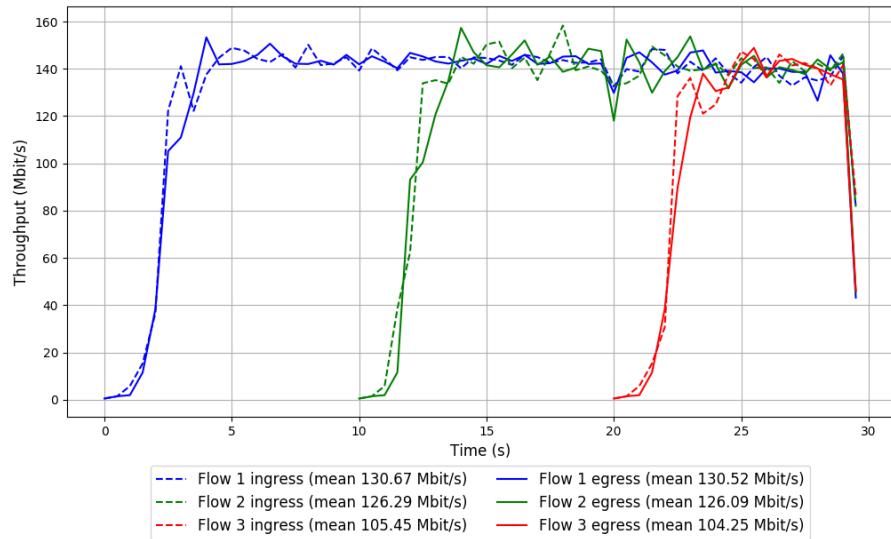


```
Run 5: Statistics of Indigo-calib

Start at: 2017-12-06 11:00:56
End at: 2017-12-06 11:01:26

# Below is generated by plot.py at 2017-12-06 15:20:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 247.39 Mbit/s
95th percentile per-packet one-way delay: 136.465 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 130.52 Mbit/s
95th percentile per-packet one-way delay: 136.301 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 126.09 Mbit/s
95th percentile per-packet one-way delay: 136.651 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 104.25 Mbit/s
95th percentile per-packet one-way delay: 136.632 ms
Loss rate: 3.89%
```

Run 5: Report of Indigo-calib — Data Link



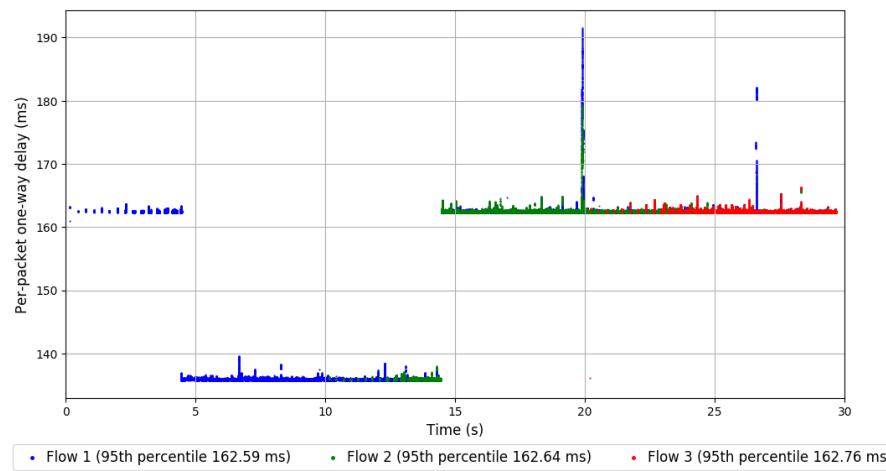
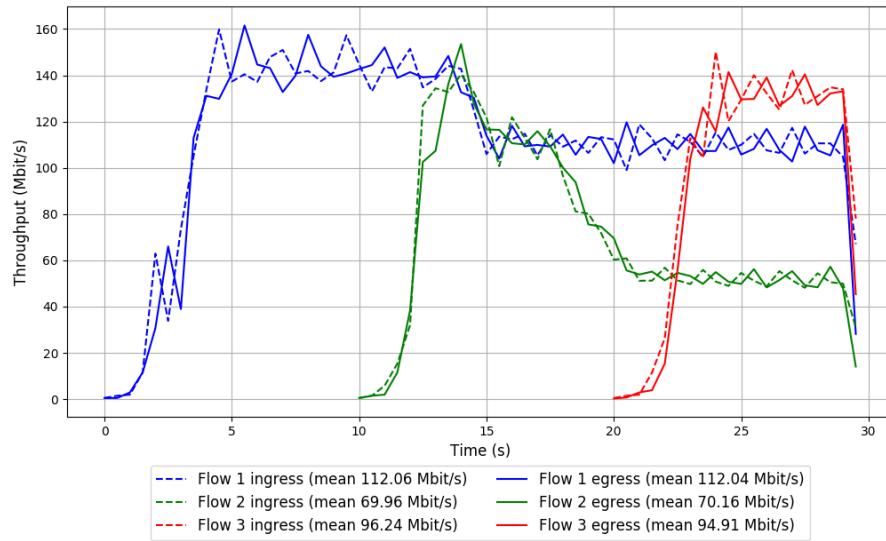
Run 6: Statistics of Indigo-calib

Start at: 2017-12-06 11:14:36

End at: 2017-12-06 11:15:06

```
# Below is generated by plot.py at 2017-12-06 15:20:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 188.82 Mbit/s
95th percentile per-packet one-way delay: 162.629 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 112.04 Mbit/s
95th percentile per-packet one-way delay: 162.591 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 70.16 Mbit/s
95th percentile per-packet one-way delay: 162.643 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 94.91 Mbit/s
95th percentile per-packet one-way delay: 162.756 ms
Loss rate: 4.14%
```

Run 6: Report of Indigo-calib — Data Link

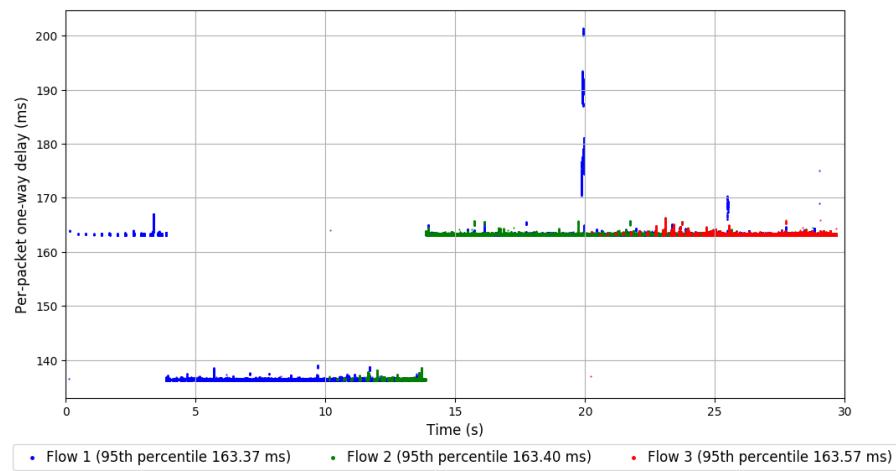
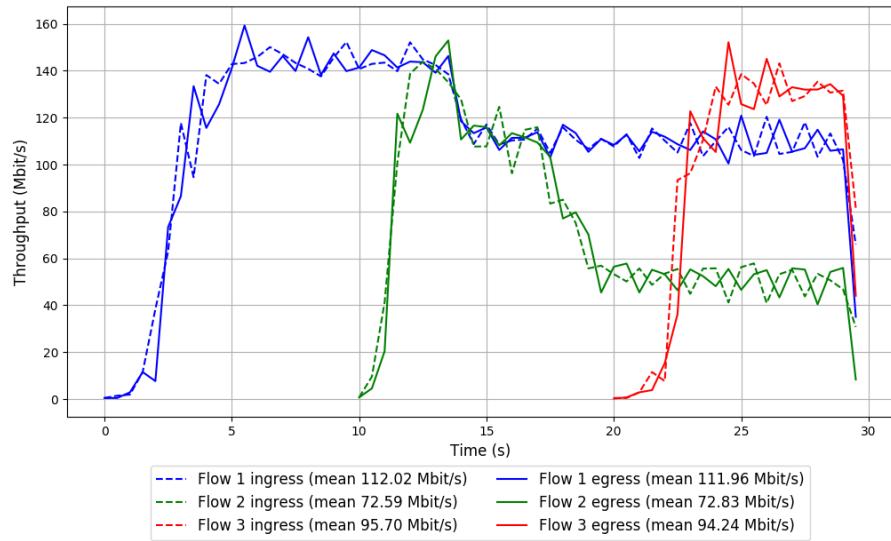


```
Run 7: Statistics of Indigo-calib

Start at: 2017-12-06 11:27:57
End at: 2017-12-06 11:28:27

# Below is generated by plot.py at 2017-12-06 15:21:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 190.05 Mbit/s
95th percentile per-packet one-way delay: 163.400 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 111.96 Mbit/s
95th percentile per-packet one-way delay: 163.370 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 72.83 Mbit/s
95th percentile per-packet one-way delay: 163.401 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 94.24 Mbit/s
95th percentile per-packet one-way delay: 163.575 ms
Loss rate: 4.30%
```

Run 7: Report of Indigo-calib — Data Link



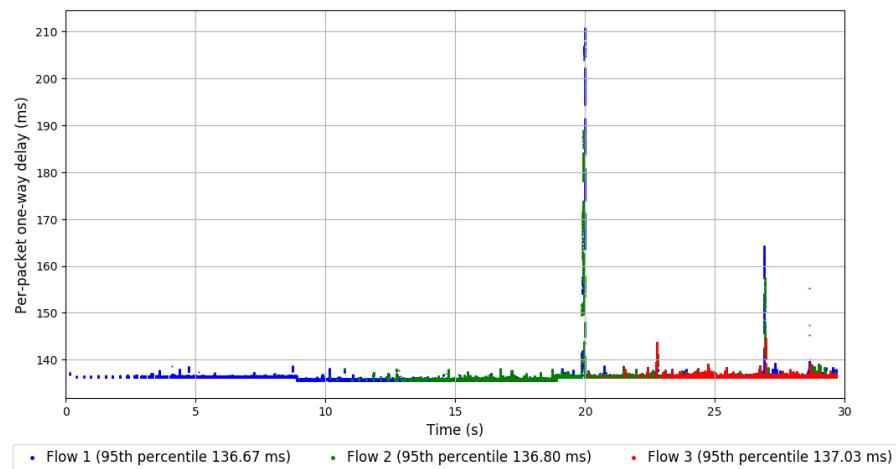
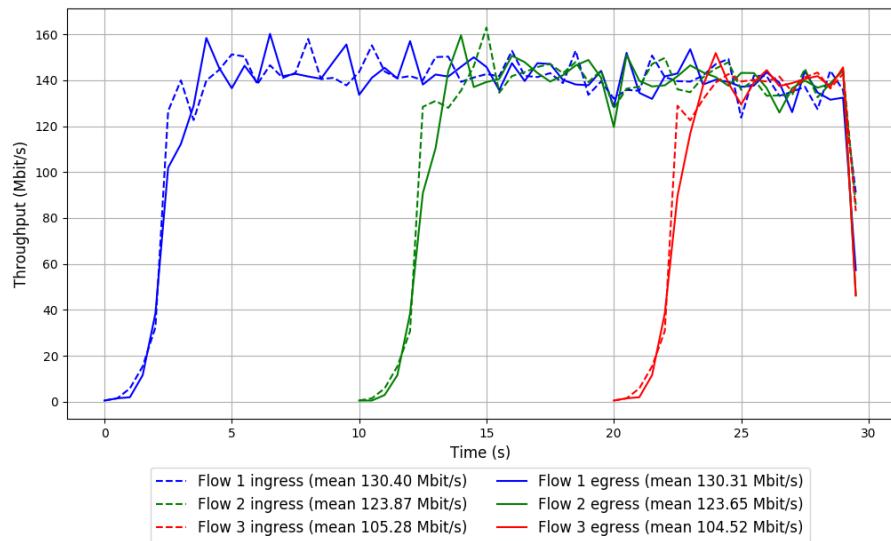
Run 8: Statistics of Indigo-calib

Start at: 2017-12-06 11:41:42

End at: 2017-12-06 11:42:12

```
# Below is generated by plot.py at 2017-12-06 15:21:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 245.60 Mbit/s
95th percentile per-packet one-way delay: 136.763 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 130.31 Mbit/s
95th percentile per-packet one-way delay: 136.670 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 123.65 Mbit/s
95th percentile per-packet one-way delay: 136.796 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 104.52 Mbit/s
95th percentile per-packet one-way delay: 137.028 ms
Loss rate: 3.50%
```

Run 8: Report of Indigo-calib — Data Link



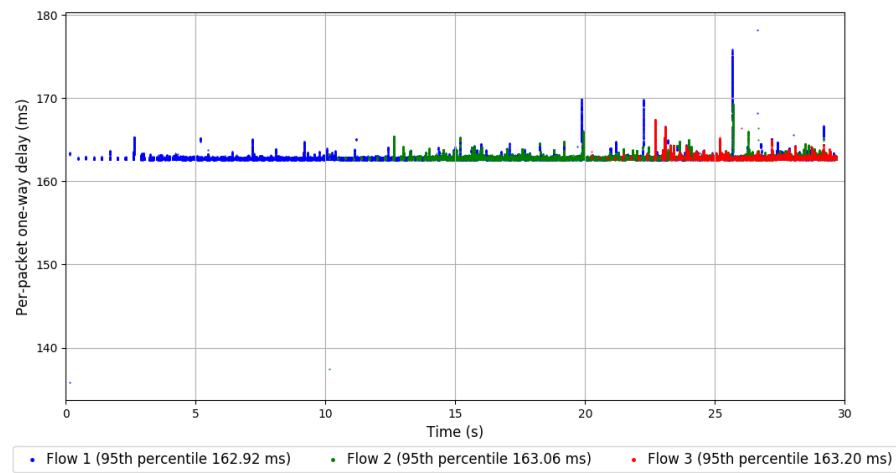
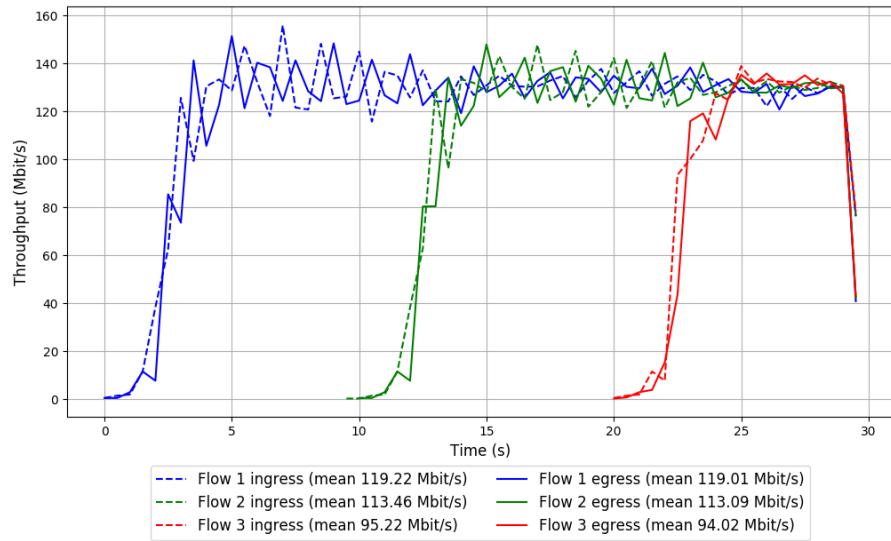
Run 9: Statistics of Indigo-calib

Start at: 2017-12-06 11:54:57

End at: 2017-12-06 11:55:27

```
# Below is generated by plot.py at 2017-12-06 15:21:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 223.78 Mbit/s
95th percentile per-packet one-way delay: 163.000 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 119.01 Mbit/s
95th percentile per-packet one-way delay: 162.921 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 113.09 Mbit/s
95th percentile per-packet one-way delay: 163.063 ms
Loss rate: 1.71%
-- Flow 3:
Average throughput: 94.02 Mbit/s
95th percentile per-packet one-way delay: 163.200 ms
Loss rate: 4.30%
```

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-06 12:08:27

End at: 2017-12-06 12:08:57

```
# Below is generated by plot.py at 2017-12-06 15:21:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 162.04 Mbit/s
95th percentile per-packet one-way delay: 162.816 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 51.27 Mbit/s
95th percentile per-packet one-way delay: 162.812 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 117.82 Mbit/s
95th percentile per-packet one-way delay: 162.831 ms
Loss rate: 1.65%
-- Flow 3:
Average throughput: 102.21 Mbit/s
95th percentile per-packet one-way delay: 162.767 ms
Loss rate: 4.01%
```

Run 10: Report of Indigo-calib — Data Link

