

Pantheon Report

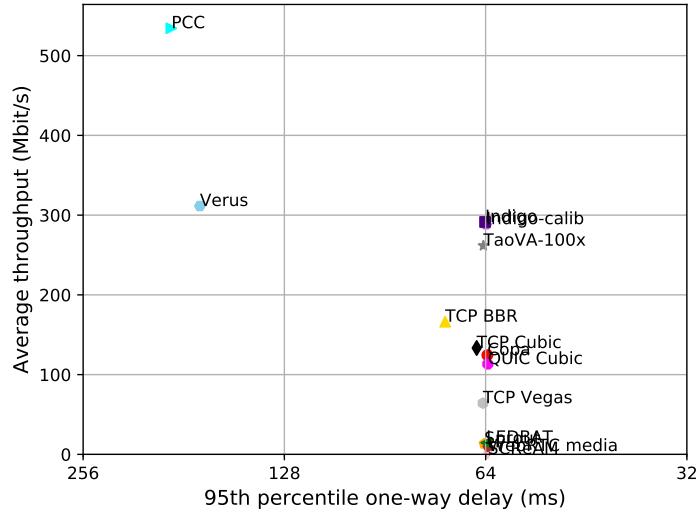
Generated at 2017-11-22 08:35:49 (UTC).
Data path: GCE Iowa Ethernet (*local*) → GCE Tokyo Ethernet (*remote*).
Repeated the test of 14 congestion control schemes 10 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

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**).

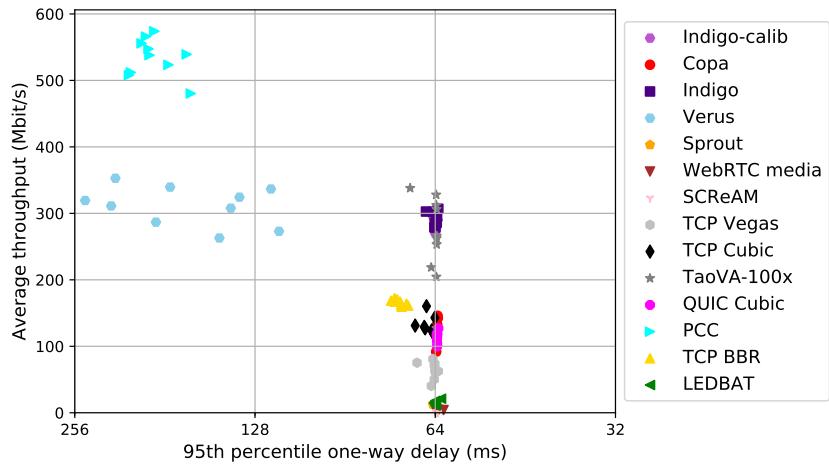
Git summary:

```
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 @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from GCE Iowa Ethernet to GCE Tokyo Ethernet, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



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



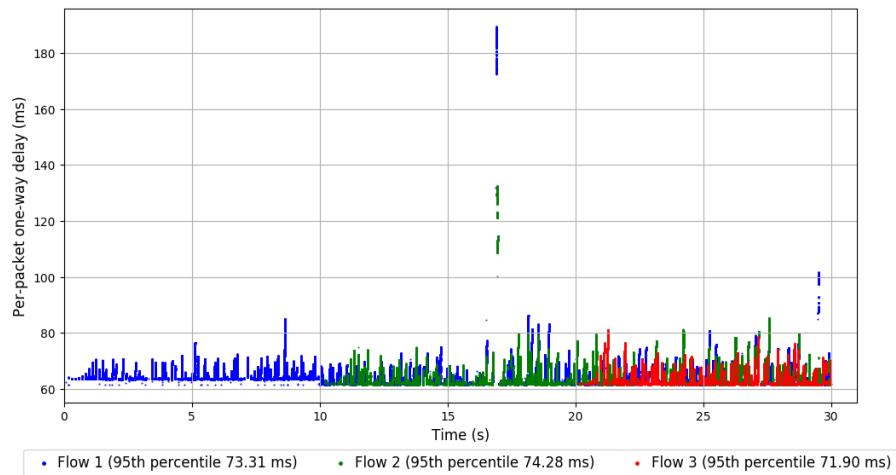
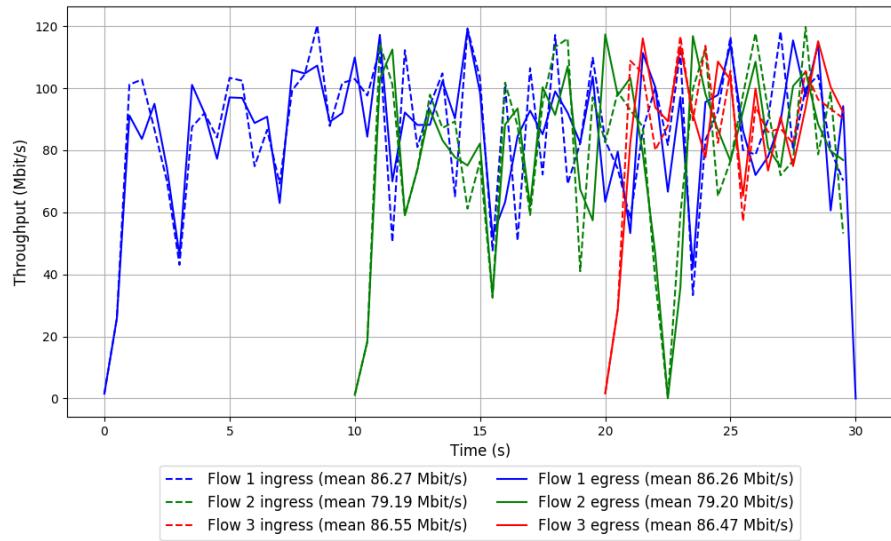
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	83.23	82.57	85.51	72.66	73.76	74.90	0.02	0.01	0.01
TCP Cubic	7	58.62	74.00	76.91	65.28	66.09	67.18	0.01	0.01	0.01
LEDBAT	10	7.87	7.69	4.91	63.90	63.83	63.08	0.02	0.02	0.01
PCC	10	493.99	32.70	56.25	188.99	186.43	172.24	1.79	1.49	1.98
QUIC Cubic	10	61.35	56.26	44.93	62.75	63.27	62.78	0.00	0.00	0.00
SCReAM	10	0.22	0.22	0.21	63.55	62.90	63.51	0.00	0.00	0.00
WebRTC media	10	2.20	1.41	0.55	63.22	62.89	63.11	0.00	0.13	0.01
Sprout	6	6.55	6.51	6.24	64.35	63.71	63.86	0.03	0.01	0.02
TaoVA-100x	10	130.81	162.21	96.53	64.49	63.91	66.46	0.01	0.03	0.06
TCP Vegas	10	31.44	30.81	37.05	64.24	64.33	65.96	0.00	0.00	0.02
Verus	10	204.99	121.15	84.05	162.77	161.58	154.58	0.74	0.71	0.85
Copa	10	69.39	64.67	64.77	63.59	63.62	63.62	0.00	0.01	0.01
Indigo	10	160.04	140.05	113.79	63.92	64.18	64.84	0.01	0.01	0.01
Indigo-calib	10	159.55	140.59	111.15	63.80	63.84	64.03	0.00	0.00	0.04

```
Run 1: Statistics of TCP BBR

Start at: 2017-11-22 04:19:25
End at: 2017-11-22 04:19:55

# Below is generated by plot.py at 2017-11-22 07:37:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 167.33 Mbit/s
95th percentile per-packet one-way delay: 73.288 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 86.26 Mbit/s
95th percentile per-packet one-way delay: 73.314 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 79.20 Mbit/s
95th percentile per-packet one-way delay: 74.284 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 86.47 Mbit/s
95th percentile per-packet one-way delay: 71.898 ms
Loss rate: 0.01%
```

Run 1: Report of TCP BBR — Data Link



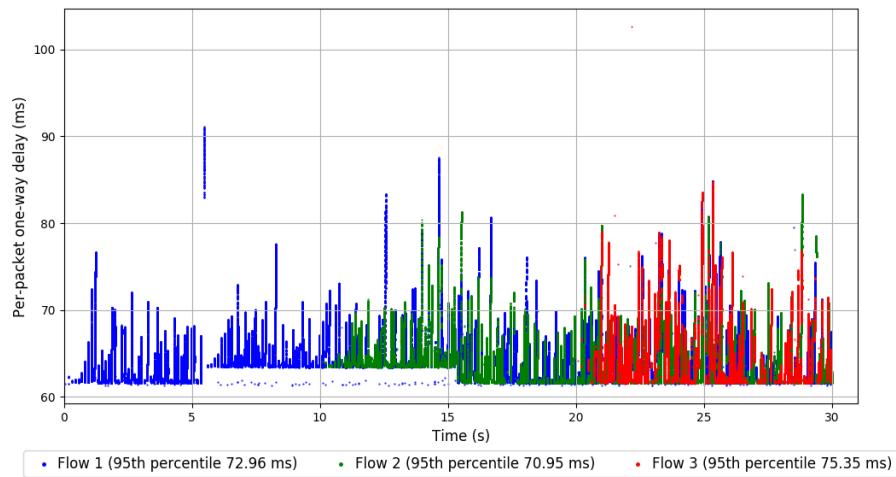
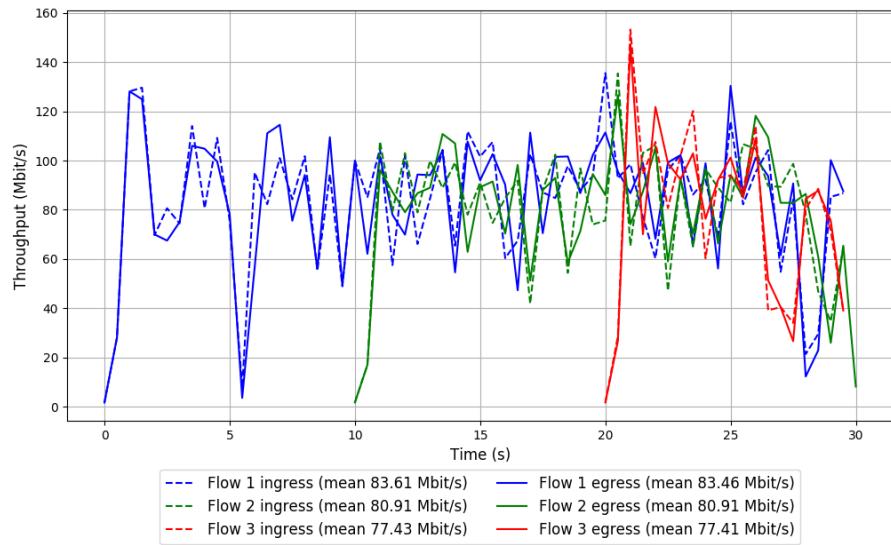
Run 2: Statistics of TCP BBR

Start at: 2017-11-22 04:31:50

End at: 2017-11-22 04:32:20

```
# Below is generated by plot.py at 2017-11-22 07:37:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 162.80 Mbit/s
95th percentile per-packet one-way delay: 72.976 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 83.46 Mbit/s
95th percentile per-packet one-way delay: 72.960 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 80.91 Mbit/s
95th percentile per-packet one-way delay: 70.949 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 77.41 Mbit/s
95th percentile per-packet one-way delay: 75.348 ms
Loss rate: 0.01%
```

Run 2: Report of TCP BBR — Data Link



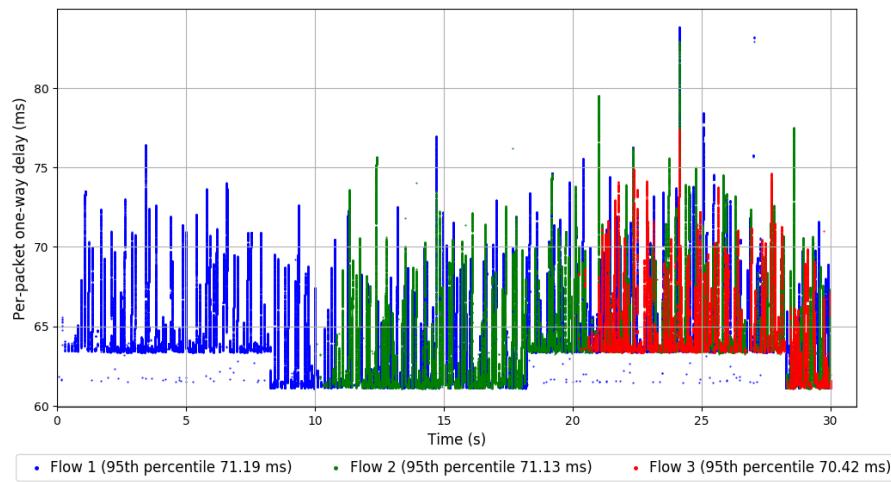
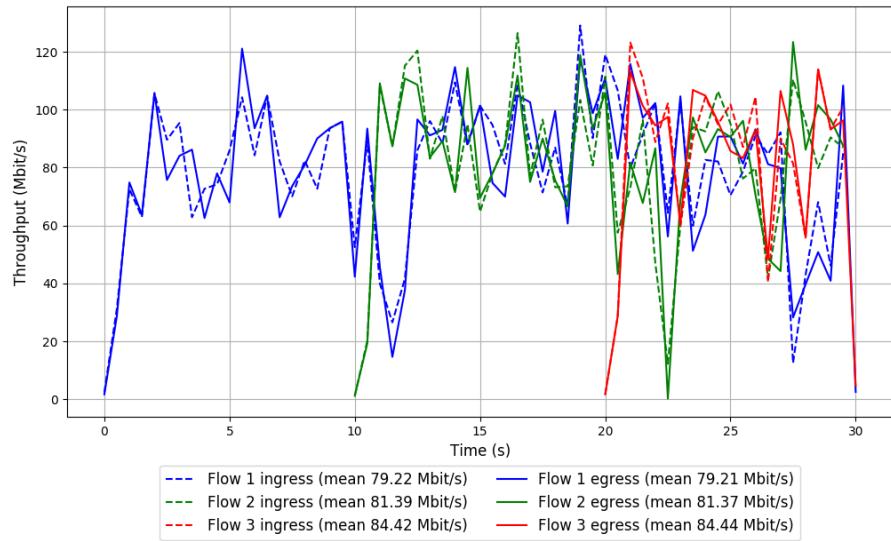
Run 3: Statistics of TCP BBR

Start at: 2017-11-22 04:43:57

End at: 2017-11-22 04:44:27

```
# Below is generated by plot.py at 2017-11-22 07:37:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 161.21 Mbit/s
95th percentile per-packet one-way delay: 71.032 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 79.21 Mbit/s
95th percentile per-packet one-way delay: 71.188 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 81.37 Mbit/s
95th percentile per-packet one-way delay: 71.132 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 84.44 Mbit/s
95th percentile per-packet one-way delay: 70.418 ms
Loss rate: 0.01%
```

Run 3: Report of TCP BBR — Data Link



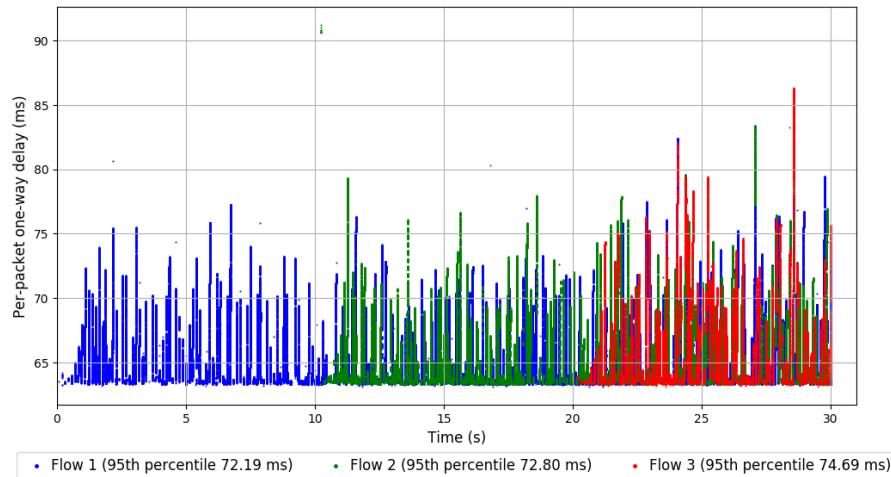
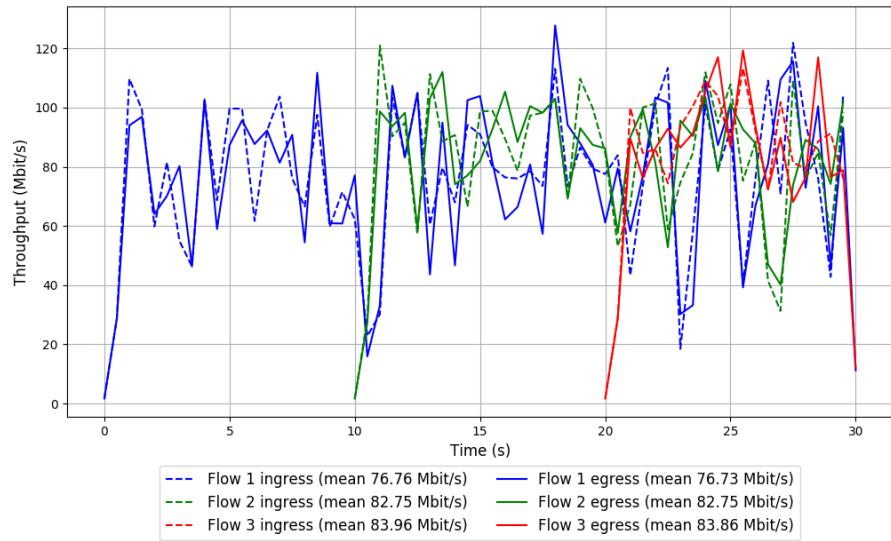
Run 4: Statistics of TCP BBR

Start at: 2017-11-22 04:56:19

End at: 2017-11-22 04:56:49

```
# Below is generated by plot.py at 2017-11-22 07:37:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 159.53 Mbit/s
95th percentile per-packet one-way delay: 72.832 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 76.73 Mbit/s
95th percentile per-packet one-way delay: 72.190 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 82.75 Mbit/s
95th percentile per-packet one-way delay: 72.804 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 83.86 Mbit/s
95th percentile per-packet one-way delay: 74.693 ms
Loss rate: 0.00%
```

Run 4: Report of TCP BBR — Data Link



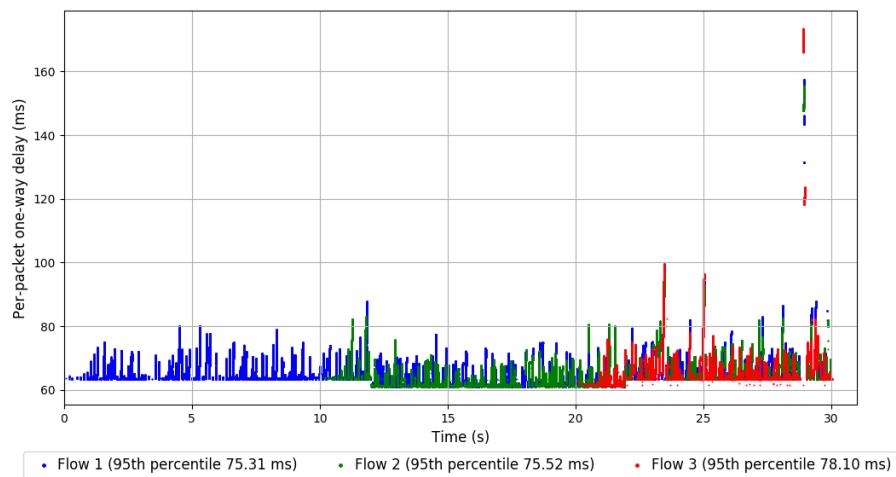
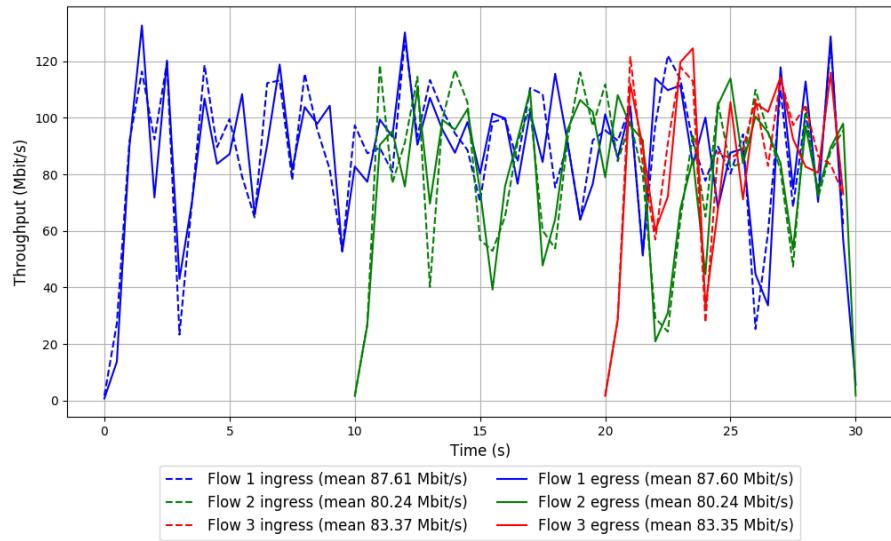
Run 5: Statistics of TCP BBR

Start at: 2017-11-22 05:08:43

End at: 2017-11-22 05:09:13

```
# Below is generated by plot.py at 2017-11-22 07:37:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 168.54 Mbit/s
95th percentile per-packet one-way delay: 75.862 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 87.60 Mbit/s
95th percentile per-packet one-way delay: 75.314 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 80.24 Mbit/s
95th percentile per-packet one-way delay: 75.522 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 83.35 Mbit/s
95th percentile per-packet one-way delay: 78.100 ms
Loss rate: 0.01%
```

Run 5: Report of TCP BBR — Data Link



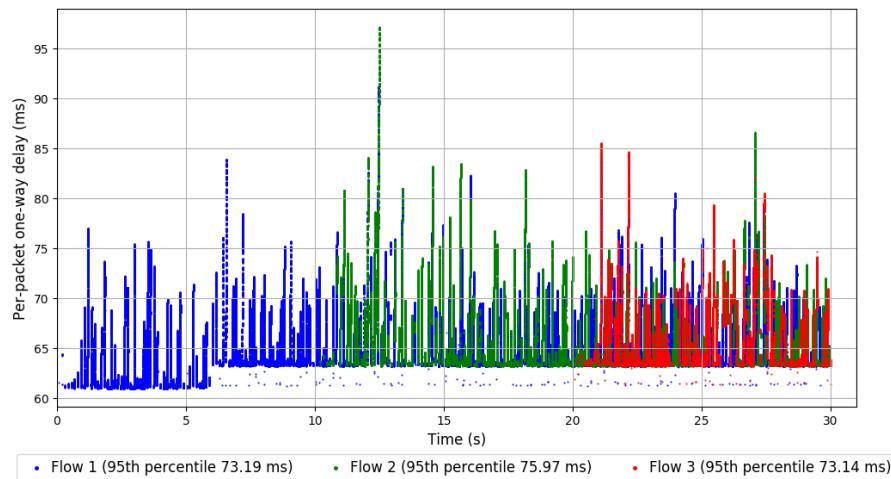
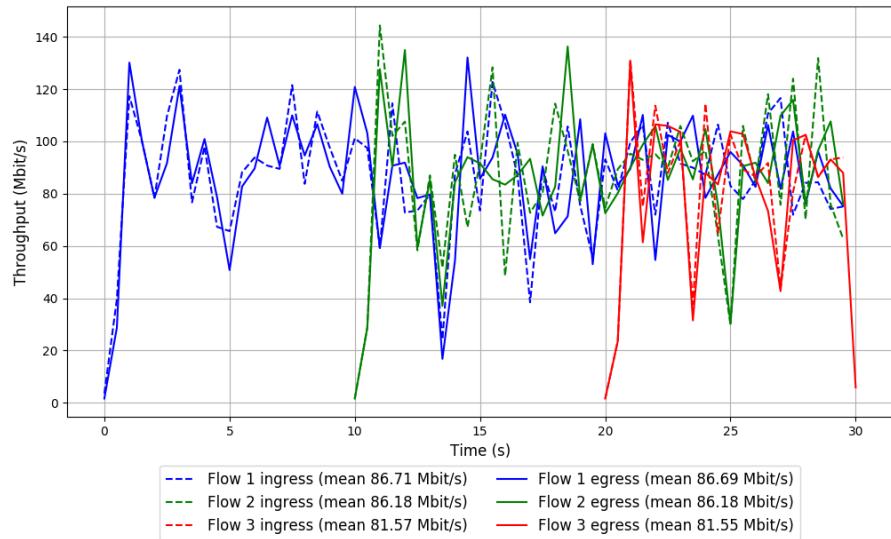
Run 6: Statistics of TCP BBR

Start at: 2017-11-22 05:20:59

End at: 2017-11-22 05:21:29

```
# Below is generated by plot.py at 2017-11-22 07:37:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 170.76 Mbit/s
95th percentile per-packet one-way delay: 74.123 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 86.69 Mbit/s
95th percentile per-packet one-way delay: 73.195 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 86.18 Mbit/s
95th percentile per-packet one-way delay: 75.968 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 81.55 Mbit/s
95th percentile per-packet one-way delay: 73.143 ms
Loss rate: 0.00%
```

Run 6: Report of TCP BBR — Data Link



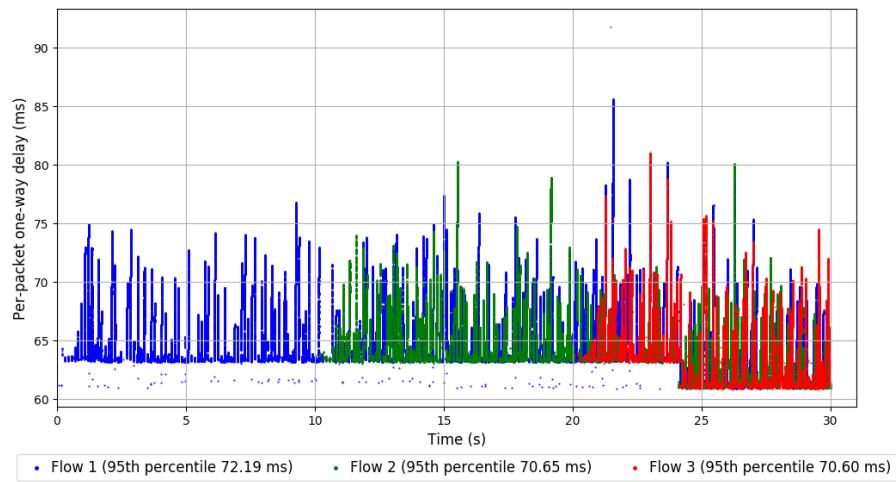
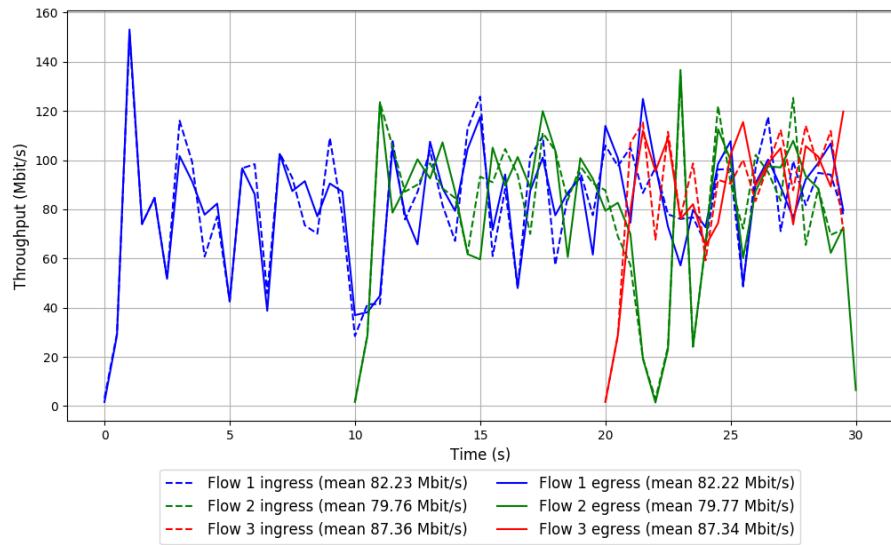
Run 7: Statistics of TCP BBR

Start at: 2017-11-22 05:33:11

End at: 2017-11-22 05:33:41

```
# Below is generated by plot.py at 2017-11-22 07:37:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 164.03 Mbit/s
95th percentile per-packet one-way delay: 71.464 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 82.22 Mbit/s
95th percentile per-packet one-way delay: 72.191 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 79.77 Mbit/s
95th percentile per-packet one-way delay: 70.646 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 87.34 Mbit/s
95th percentile per-packet one-way delay: 70.597 ms
Loss rate: 0.00%
```

Run 7: Report of TCP BBR — Data Link



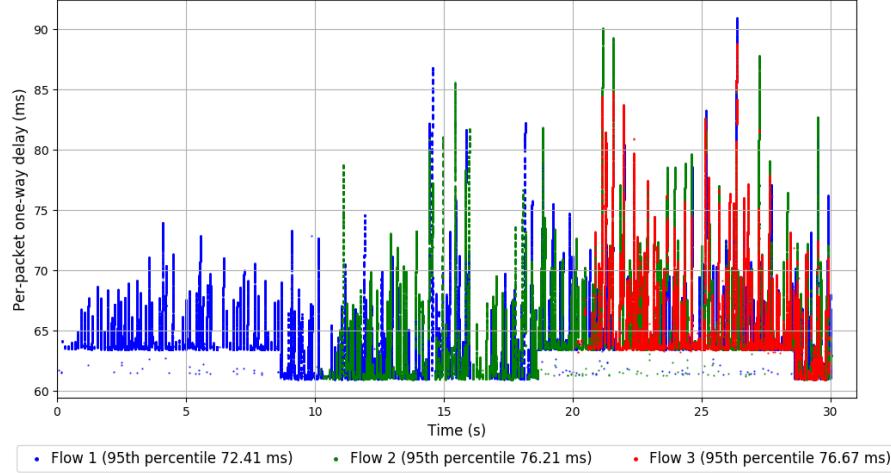
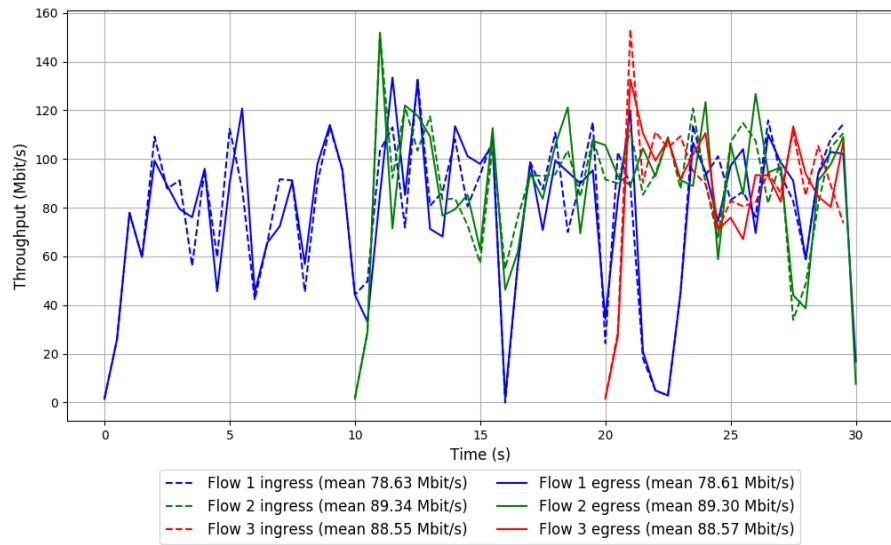
Run 8: Statistics of TCP BBR

Start at: 2017-11-22 05:45:26

End at: 2017-11-22 05:45:56

```
# Below is generated by plot.py at 2017-11-22 07:37:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 167.20 Mbit/s
95th percentile per-packet one-way delay: 74.860 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 78.61 Mbit/s
95th percentile per-packet one-way delay: 72.407 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 89.30 Mbit/s
95th percentile per-packet one-way delay: 76.206 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 88.57 Mbit/s
95th percentile per-packet one-way delay: 76.669 ms
Loss rate: 0.01%
```

Run 8: Report of TCP BBR — Data Link



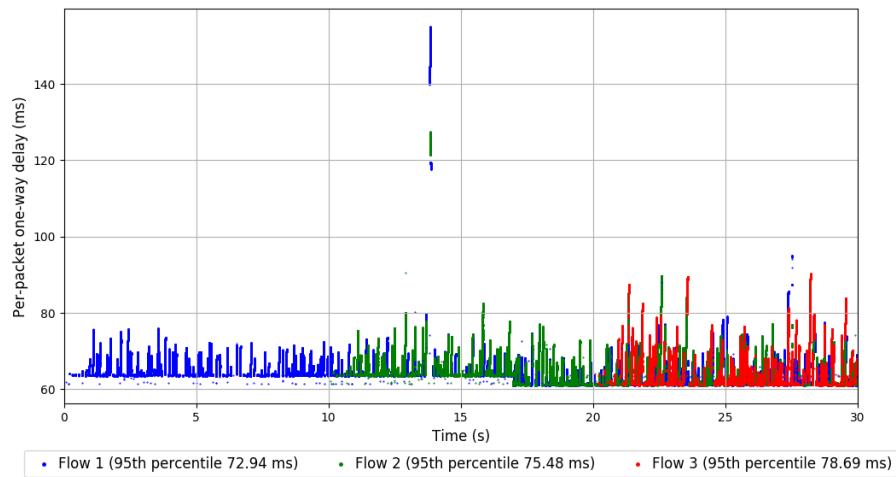
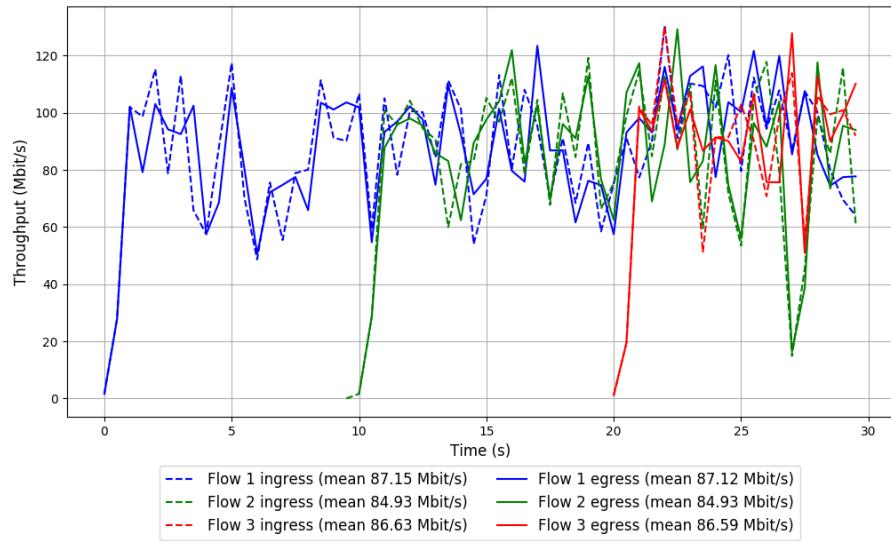
Run 9: Statistics of TCP BBR

Start at: 2017-11-22 05:57:28

End at: 2017-11-22 05:57:58

```
# Below is generated by plot.py at 2017-11-22 07:40:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 172.26 Mbit/s
95th percentile per-packet one-way delay: 74.860 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 87.12 Mbit/s
95th percentile per-packet one-way delay: 72.940 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 84.93 Mbit/s
95th percentile per-packet one-way delay: 75.485 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 86.59 Mbit/s
95th percentile per-packet one-way delay: 78.695 ms
Loss rate: 0.01%
```

Run 9: Report of TCP BBR — Data Link



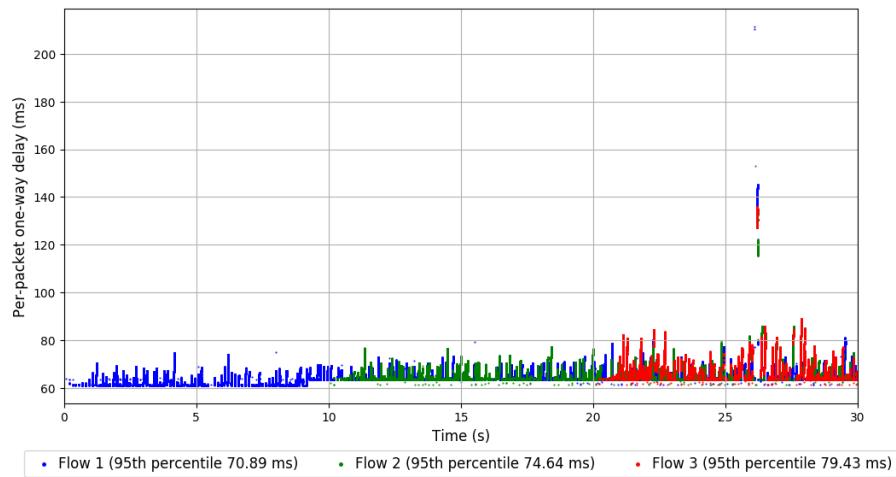
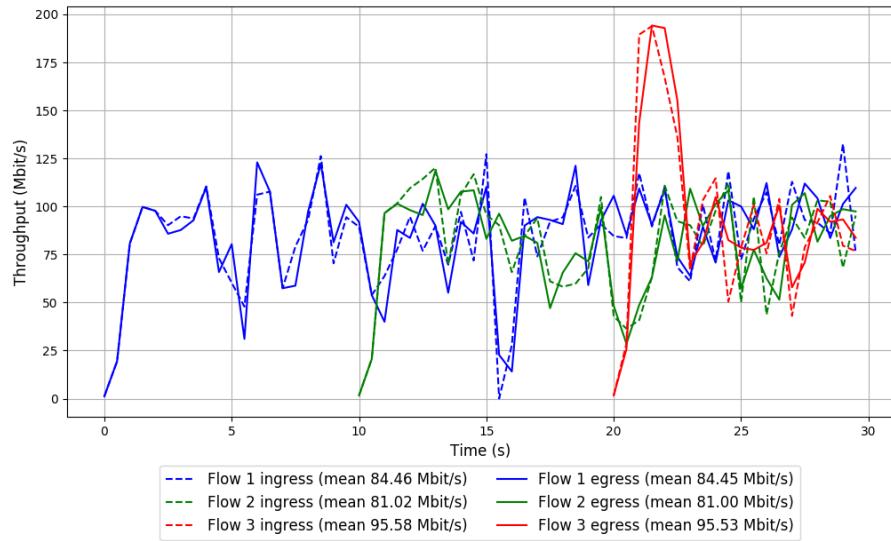
Run 10: Statistics of TCP BBR

Start at: 2017-11-22 06:09:46

End at: 2017-11-22 06:10:16

```
# Below is generated by plot.py at 2017-11-22 07:40:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 169.71 Mbit/s
95th percentile per-packet one-way delay: 74.418 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 84.45 Mbit/s
95th percentile per-packet one-way delay: 70.888 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 81.00 Mbit/s
95th percentile per-packet one-way delay: 74.638 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 95.53 Mbit/s
95th percentile per-packet one-way delay: 79.431 ms
Loss rate: 0.01%
```

Run 10: Report of TCP BBR — Data Link

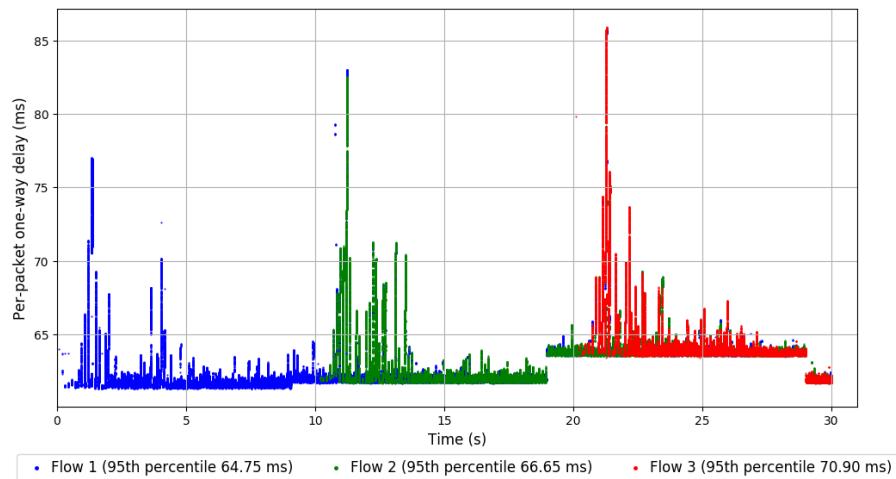
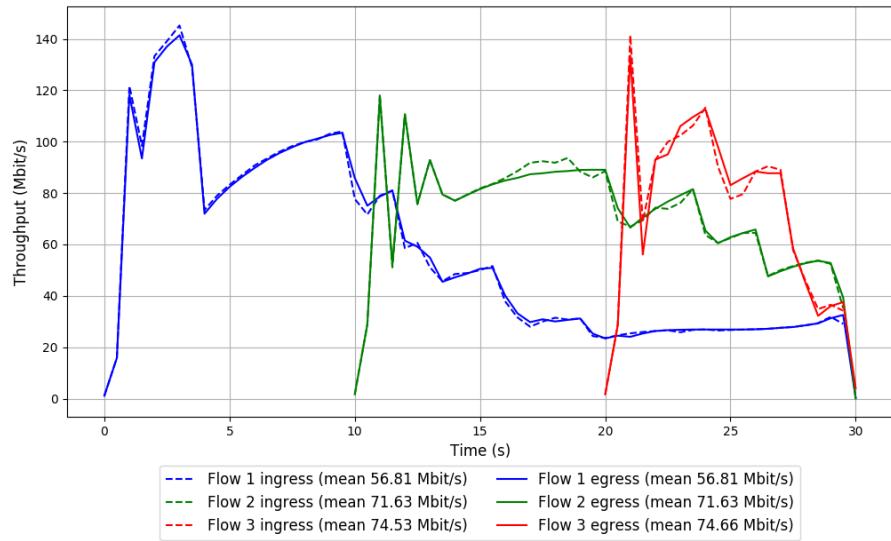


```
Run 1: Statistics of TCP Cubic

Start at: 2017-11-22 04:14:56
End at: 2017-11-22 04:15:26

# Below is generated by plot.py at 2017-11-22 07:40:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 129.21 Mbit/s
95th percentile per-packet one-way delay: 66.764 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 56.81 Mbit/s
95th percentile per-packet one-way delay: 64.750 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 71.63 Mbit/s
95th percentile per-packet one-way delay: 66.647 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 74.66 Mbit/s
95th percentile per-packet one-way delay: 70.902 ms
Loss rate: 0.01%
```

Run 1: Report of TCP Cubic — Data Link



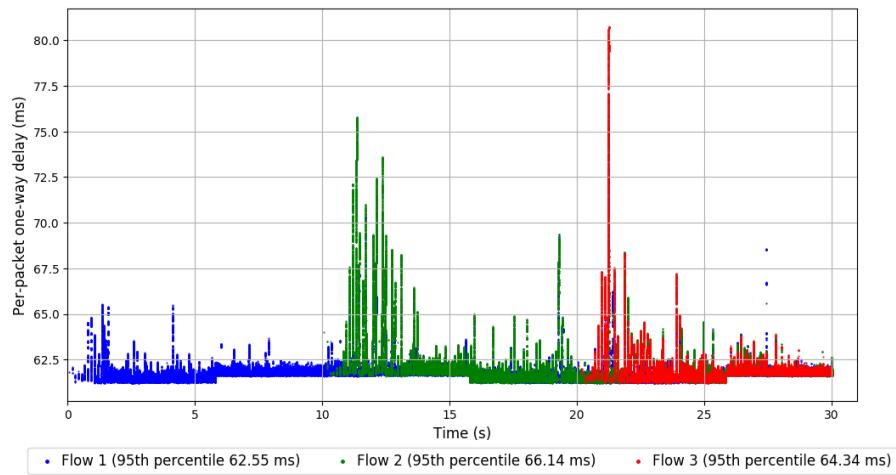
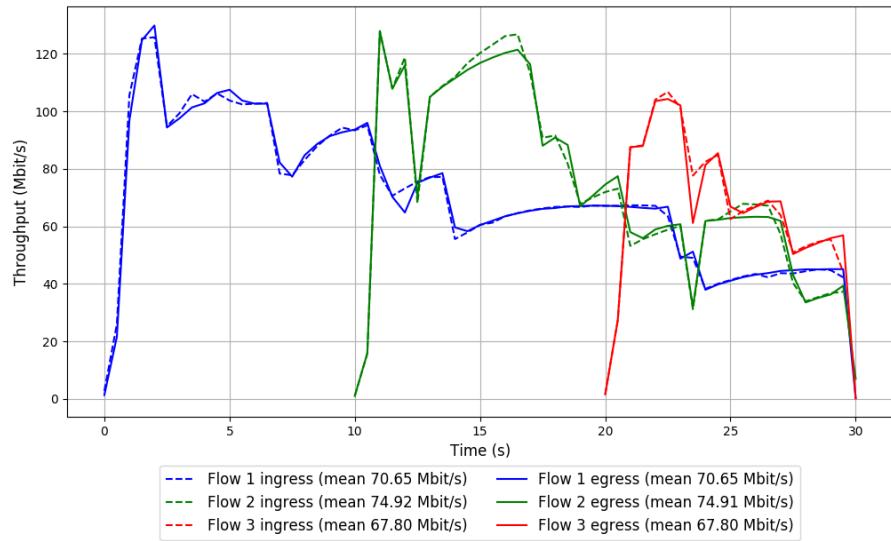
```
Run 2: Statistics of TCP Cubic
```

```
Start at: 2017-11-22 04:27:19
```

```
End at: 2017-11-22 04:27:49
```

```
# Below is generated by plot.py at 2017-11-22 07:40:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 143.01 Mbit/s
95th percentile per-packet one-way delay: 64.098 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 70.65 Mbit/s
95th percentile per-packet one-way delay: 62.549 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 74.91 Mbit/s
95th percentile per-packet one-way delay: 66.142 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 67.80 Mbit/s
95th percentile per-packet one-way delay: 64.342 ms
Loss rate: 0.01%
```

Run 2: Report of TCP Cubic — Data Link



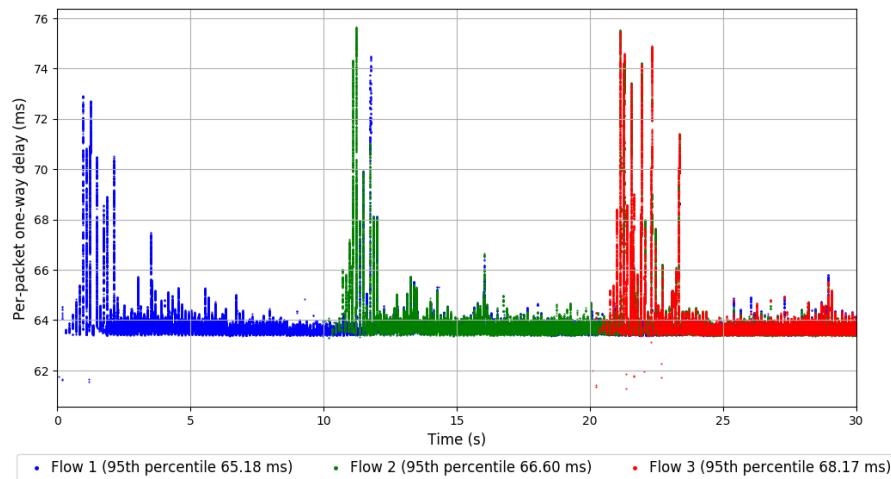
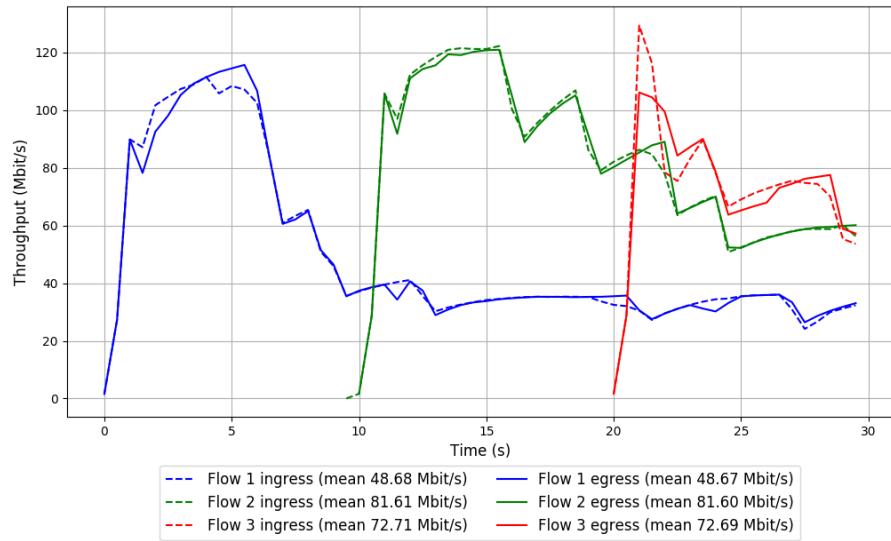
```
Run 3: Statistics of TCP Cubic
```

```
Start at: 2017-11-22 04:39:41
```

```
End at: 2017-11-22 04:40:11
```

```
# Below is generated by plot.py at 2017-11-22 07:40:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 127.03 Mbit/s
95th percentile per-packet one-way delay: 66.541 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.67 Mbit/s
95th percentile per-packet one-way delay: 65.184 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 81.60 Mbit/s
95th percentile per-packet one-way delay: 66.597 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 72.69 Mbit/s
95th percentile per-packet one-way delay: 68.174 ms
Loss rate: 0.01%
```

Run 3: Report of TCP Cubic — Data Link



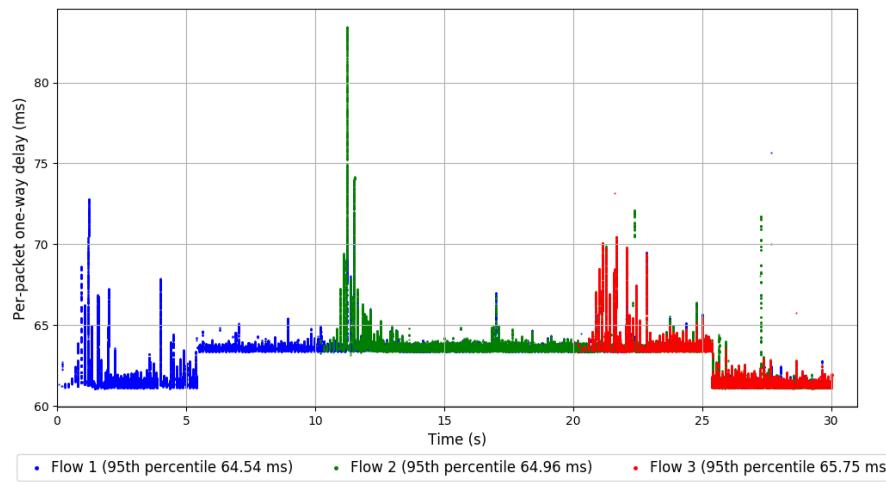
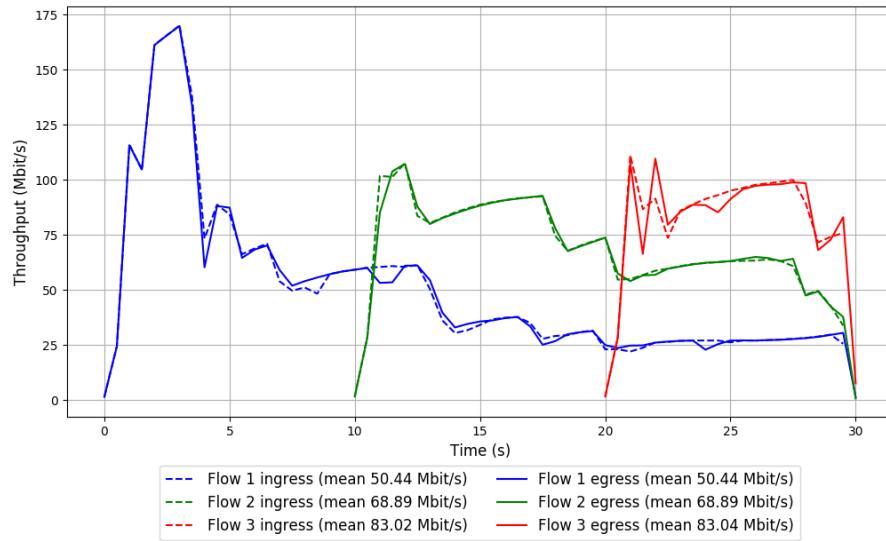
Run 4: Statistics of TCP Cubic

Start at: 2017-11-22 04:51:50

End at: 2017-11-22 04:52:20

```
# Below is generated by plot.py at 2017-11-22 07:40:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 123.83 Mbit/s
95th percentile per-packet one-way delay: 64.888 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.44 Mbit/s
95th percentile per-packet one-way delay: 64.540 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 68.89 Mbit/s
95th percentile per-packet one-way delay: 64.959 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 83.04 Mbit/s
95th percentile per-packet one-way delay: 65.751 ms
Loss rate: 0.00%
```

Run 4: Report of TCP Cubic — Data Link



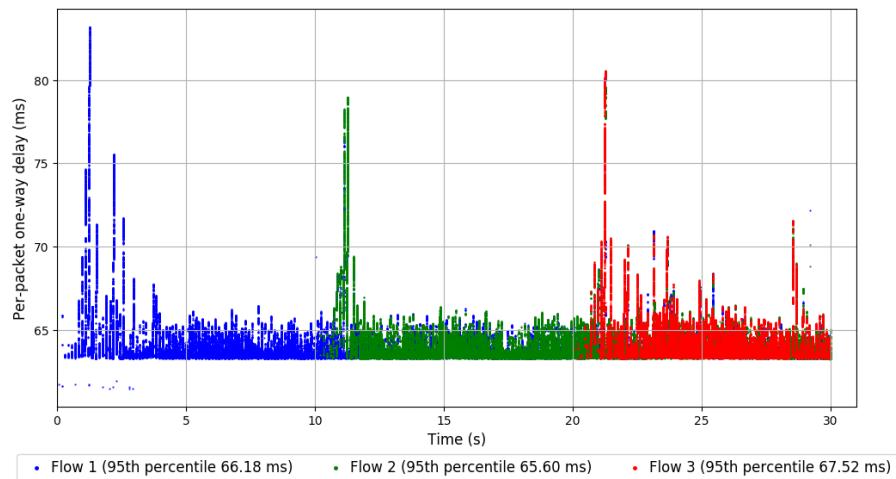
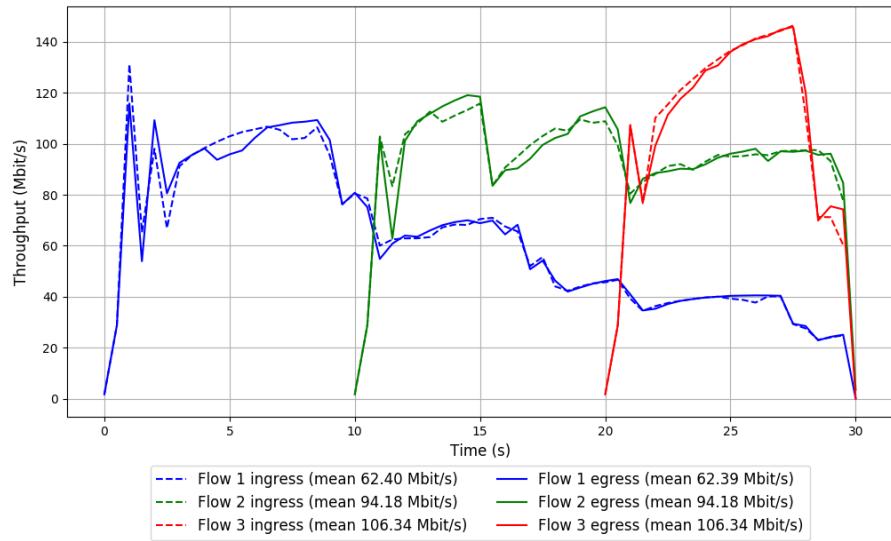
```
Run 5: Statistics of TCP Cubic
```

```
Start at: 2017-11-22 05:04:11
```

```
End at: 2017-11-22 05:04:41
```

```
# Below is generated by plot.py at 2017-11-22 07:40:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 160.34 Mbit/s
95th percentile per-packet one-way delay: 66.191 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 62.39 Mbit/s
95th percentile per-packet one-way delay: 66.180 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 94.18 Mbit/s
95th percentile per-packet one-way delay: 65.603 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 106.34 Mbit/s
95th percentile per-packet one-way delay: 67.518 ms
Loss rate: 0.00%
```

Run 5: Report of TCP Cubic — Data Link

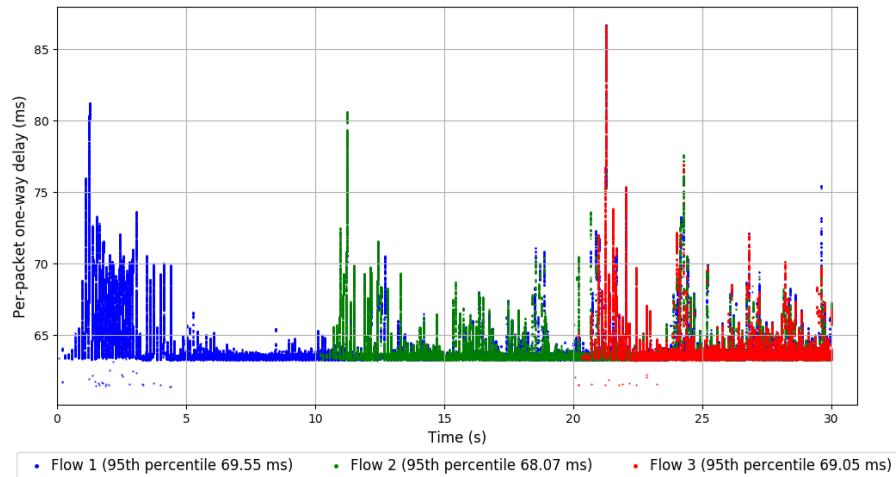
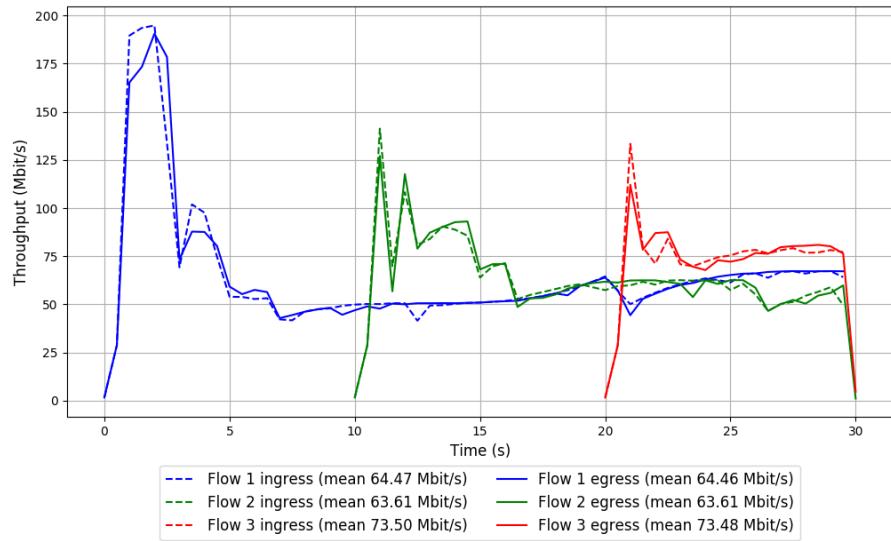


```
Run 6: Statistics of TCP Cubic

Start at: 2017-11-22 05:16:35
End at: 2017-11-22 05:17:05

# Below is generated by plot.py at 2017-11-22 07:40:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 131.18 Mbit/s
95th percentile per-packet one-way delay: 69.130 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 64.46 Mbit/s
95th percentile per-packet one-way delay: 69.547 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 63.61 Mbit/s
95th percentile per-packet one-way delay: 68.066 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 73.48 Mbit/s
95th percentile per-packet one-way delay: 69.052 ms
Loss rate: 0.00%
```

Run 6: Report of TCP Cubic — Data Link

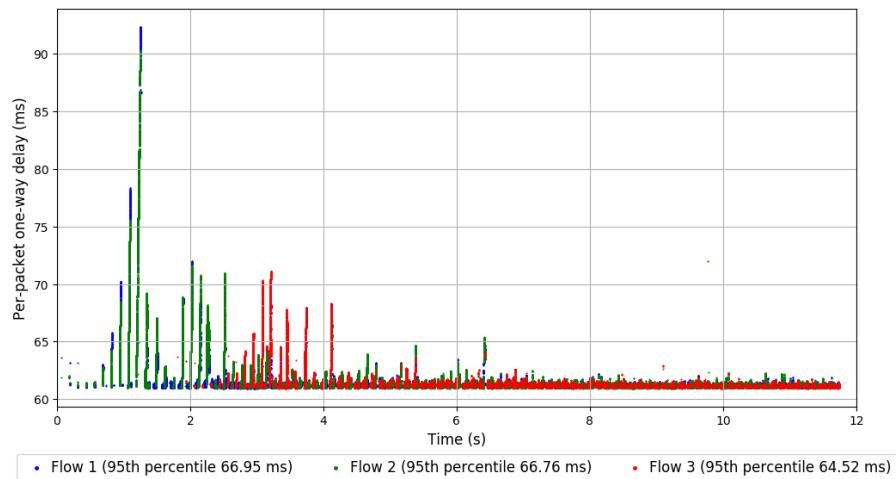
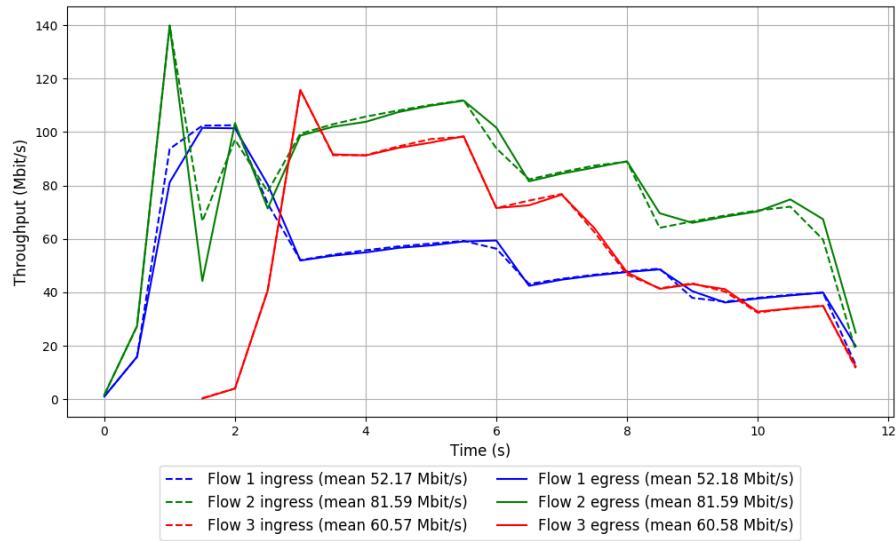


Run 7: Statistics of TCP Cubic

Start at: 2017-11-22 05:28:51

End at: 2017-11-22 05:29:21

Run 7: Report of TCP Cubic — Data Link



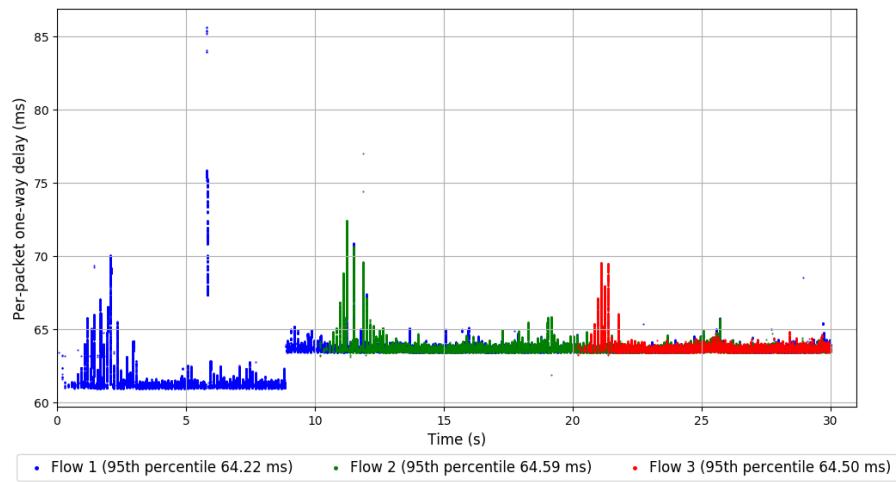
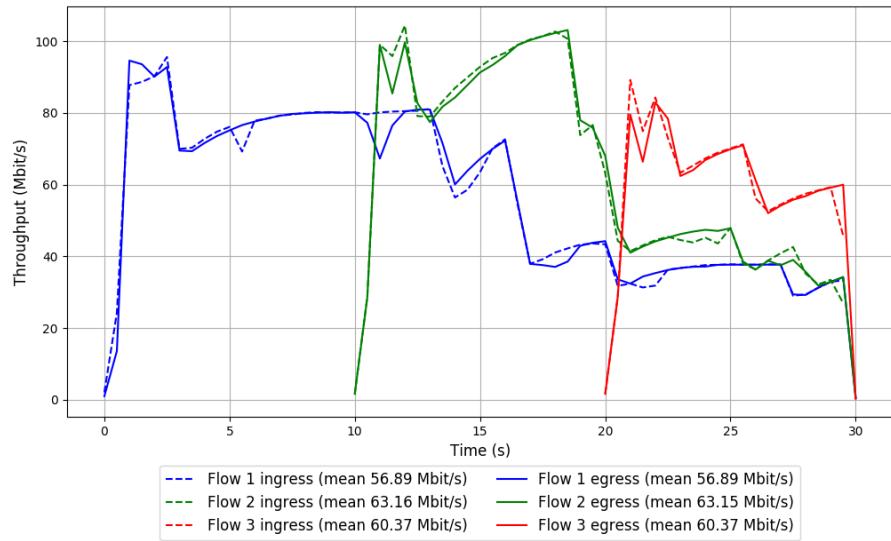
```
Run 8: Statistics of TCP Cubic
```

```
Start at: 2017-11-22 05:41:06
```

```
End at: 2017-11-22 05:41:36
```

```
# Below is generated by plot.py at 2017-11-22 07:42:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 118.92 Mbit/s
95th percentile per-packet one-way delay: 64.406 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 56.89 Mbit/s
95th percentile per-packet one-way delay: 64.225 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 63.15 Mbit/s
95th percentile per-packet one-way delay: 64.595 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 60.37 Mbit/s
95th percentile per-packet one-way delay: 64.501 ms
Loss rate: 0.01%
```

Run 8: Report of TCP Cubic — Data Link

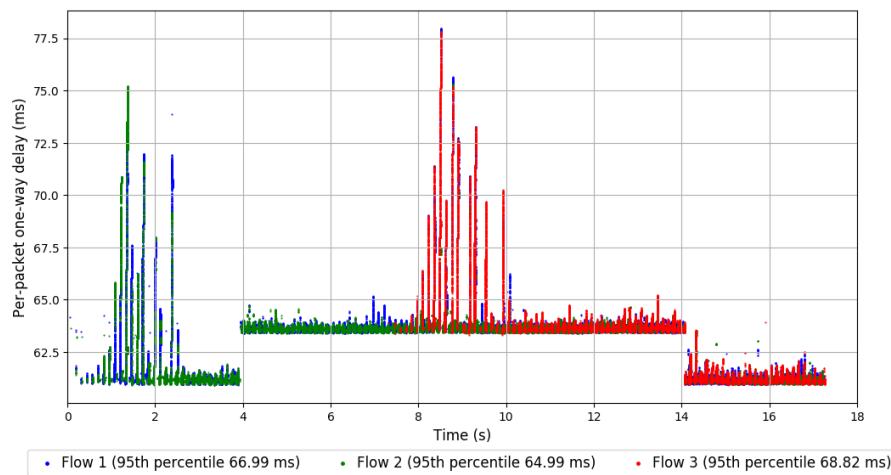
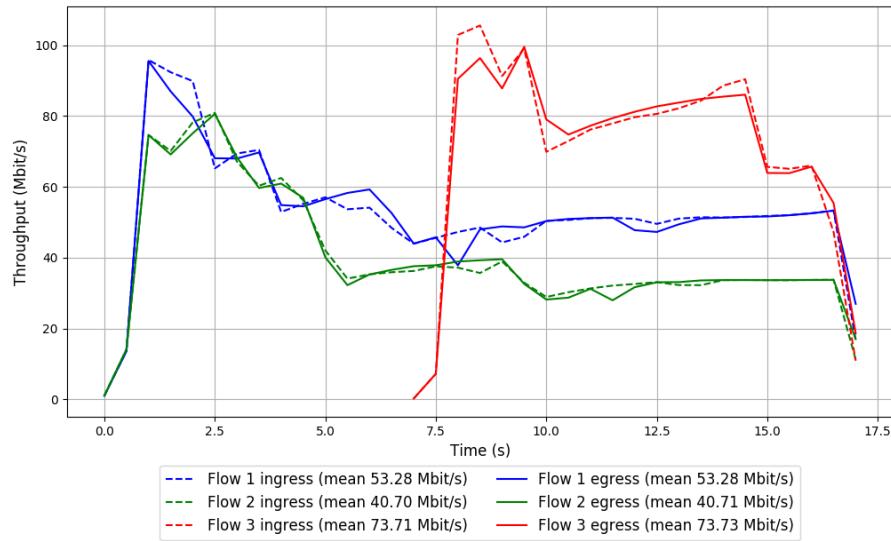


Run 9: Statistics of TCP Cubic

Start at: 2017-11-22 05:53:18

End at: 2017-11-22 05:53:48

Run 9: Report of TCP Cubic — Data Link

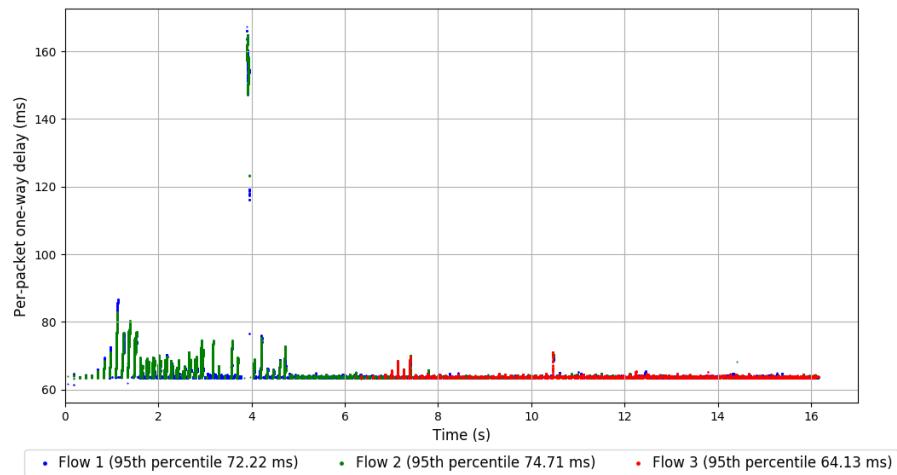
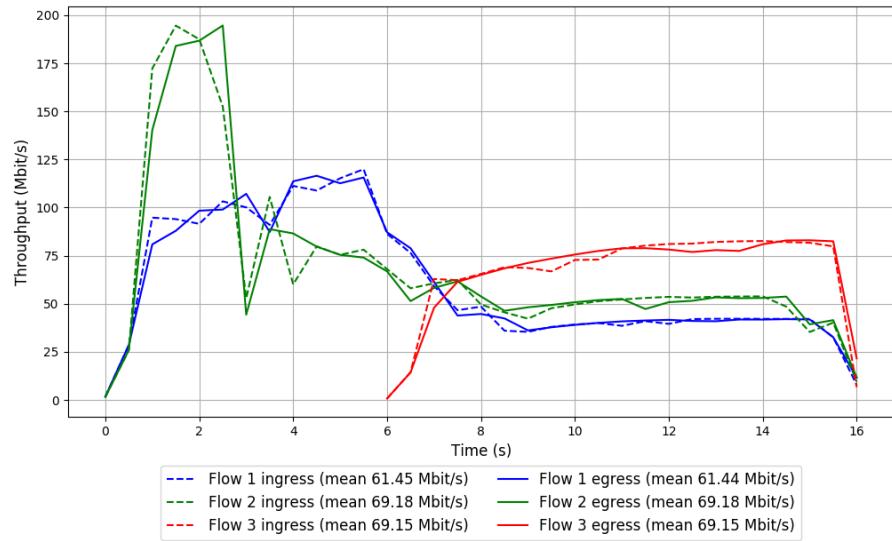


Run 10: Statistics of TCP Cubic

Start at: 2017-11-22 06:05:24

End at: 2017-11-22 06:05:54

Run 10: Report of TCP Cubic — Data Link

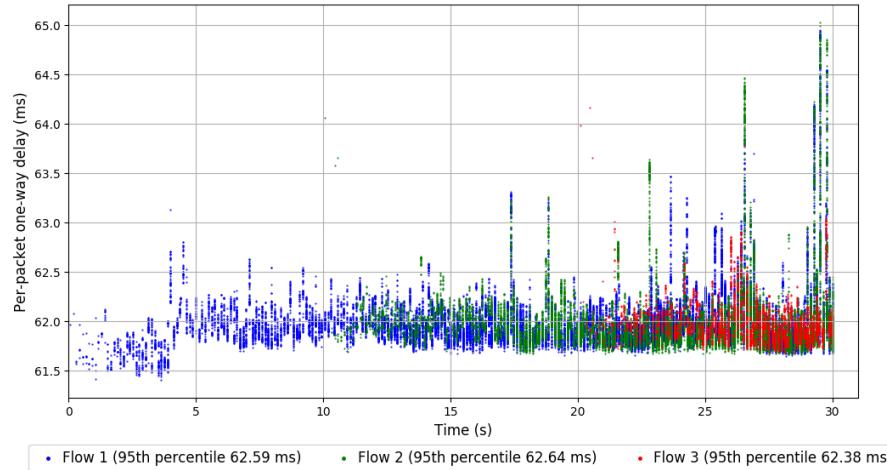
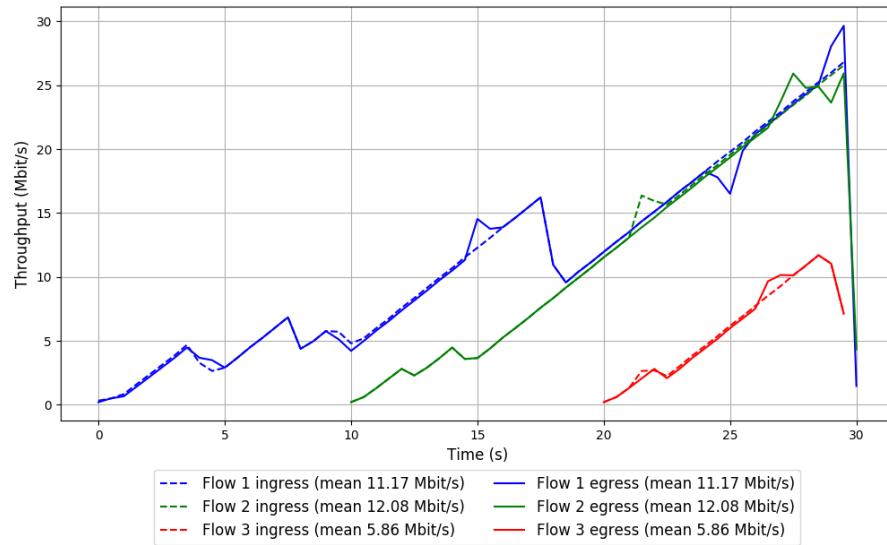


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-22 04:18:01
End at: 2017-11-22 04:18:31

# Below is generated by plot.py at 2017-11-22 07:42:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.15 Mbit/s
95th percentile per-packet one-way delay: 62.591 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.17 Mbit/s
95th percentile per-packet one-way delay: 62.587 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.08 Mbit/s
95th percentile per-packet one-way delay: 62.642 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.86 Mbit/s
95th percentile per-packet one-way delay: 62.382 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link



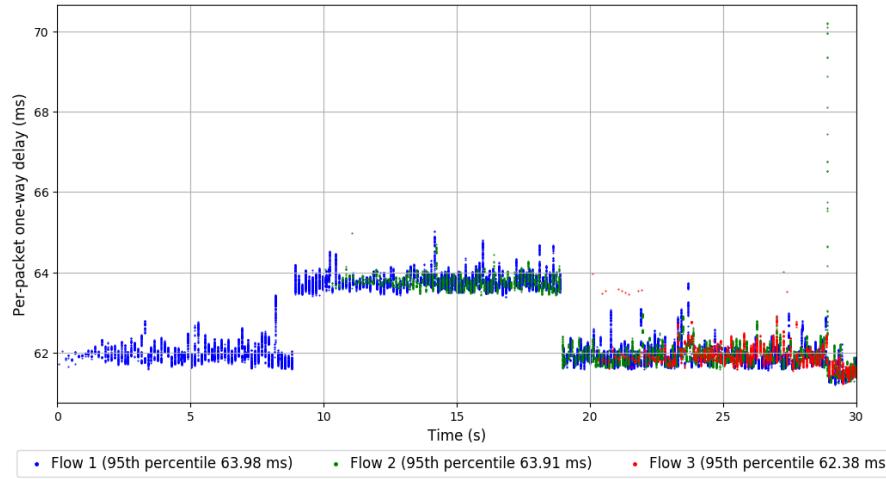
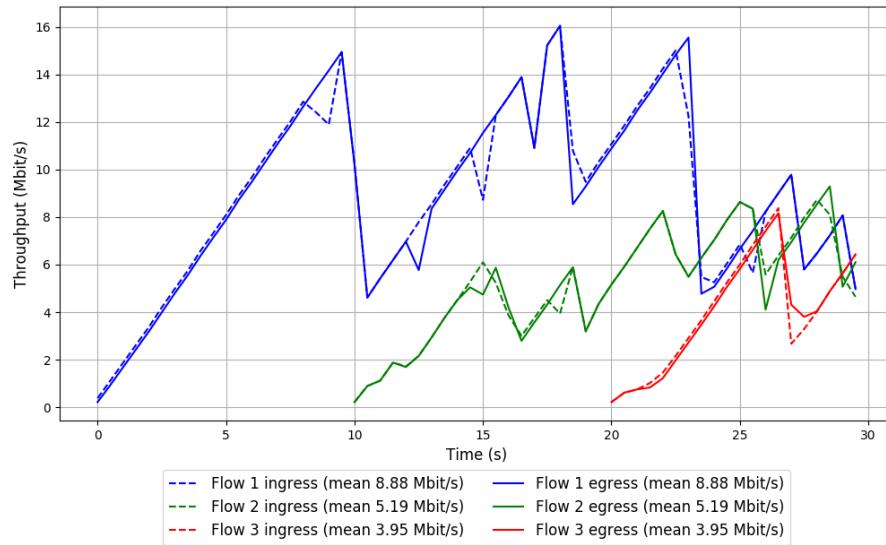
Run 2: Statistics of LEDBAT

Start at: 2017-11-22 04:30:26

End at: 2017-11-22 04:30:56

```
# Below is generated by plot.py at 2017-11-22 07:42:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.62 Mbit/s
95th percentile per-packet one-way delay: 63.947 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 8.88 Mbit/s
95th percentile per-packet one-way delay: 63.982 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 5.19 Mbit/s
95th percentile per-packet one-way delay: 63.913 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 3.95 Mbit/s
95th percentile per-packet one-way delay: 62.375 ms
Loss rate: 0.03%
```

Run 2: Report of LEDBAT — Data Link



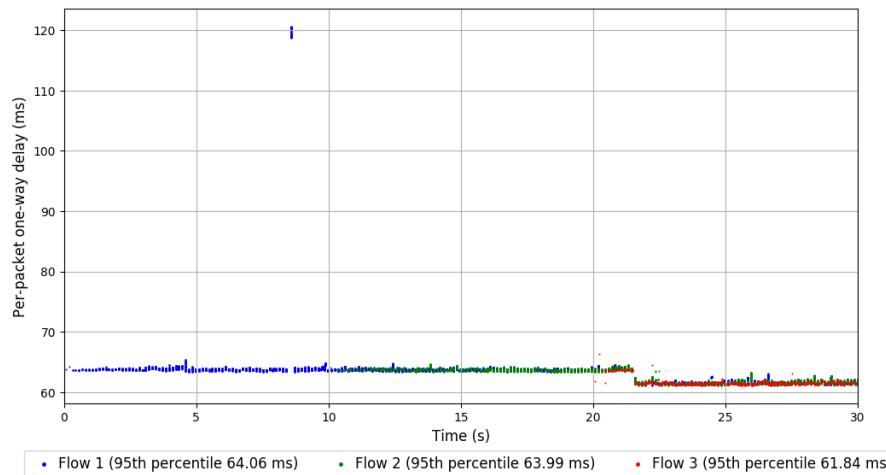
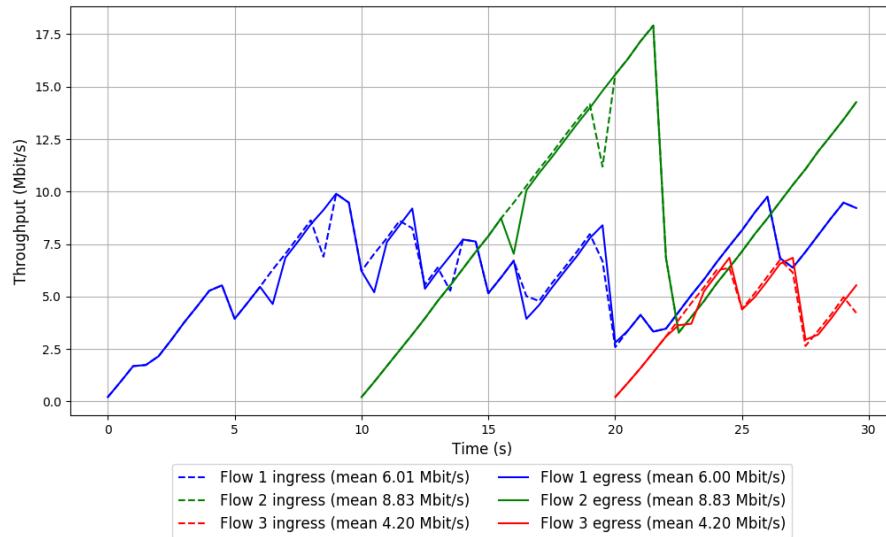
Run 3: Statistics of LEDBAT

Start at: 2017-11-22 04:42:33

End at: 2017-11-22 04:43:03

```
# Below is generated by plot.py at 2017-11-22 07:42:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.26 Mbit/s
95th percentile per-packet one-way delay: 64.003 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 6.00 Mbit/s
95th percentile per-packet one-way delay: 64.057 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 8.83 Mbit/s
95th percentile per-packet one-way delay: 63.994 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 61.835 ms
Loss rate: 0.03%
```

Run 3: Report of LEDBAT — Data Link



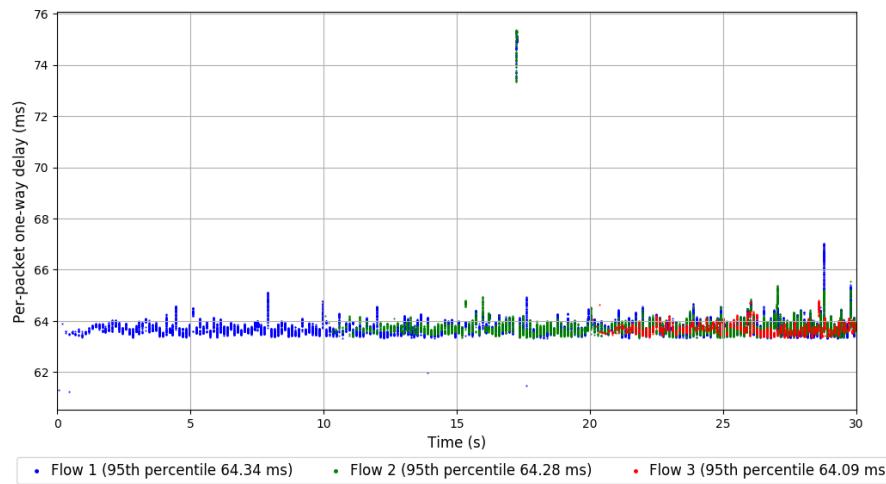
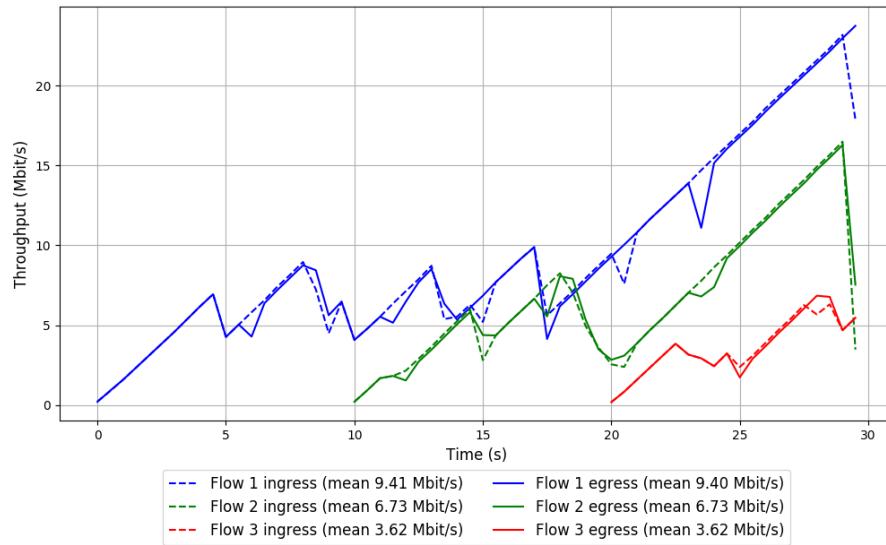
Run 4: Statistics of LEDBAT

Start at: 2017-11-22 04:54:55

End at: 2017-11-22 04:55:25

```
# Below is generated by plot.py at 2017-11-22 07:42:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.04 Mbit/s
95th percentile per-packet one-way delay: 64.311 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 9.40 Mbit/s
95th percentile per-packet one-way delay: 64.342 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 6.73 Mbit/s
95th percentile per-packet one-way delay: 64.277 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 3.62 Mbit/s
95th percentile per-packet one-way delay: 64.086 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link



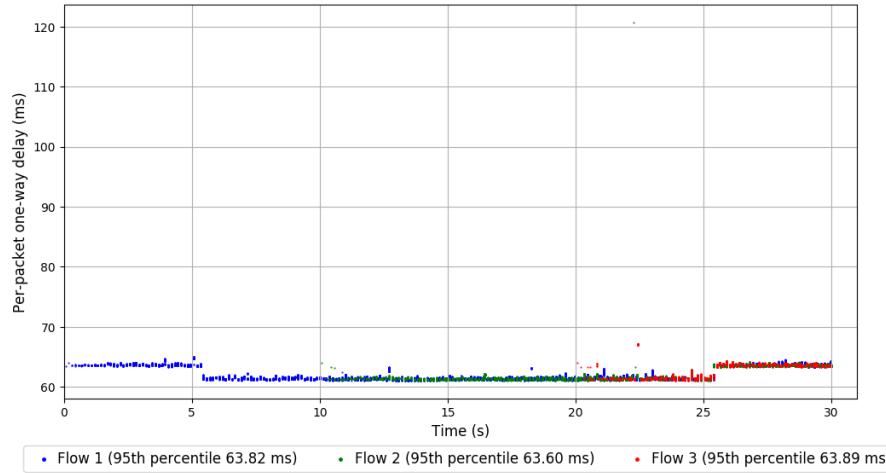
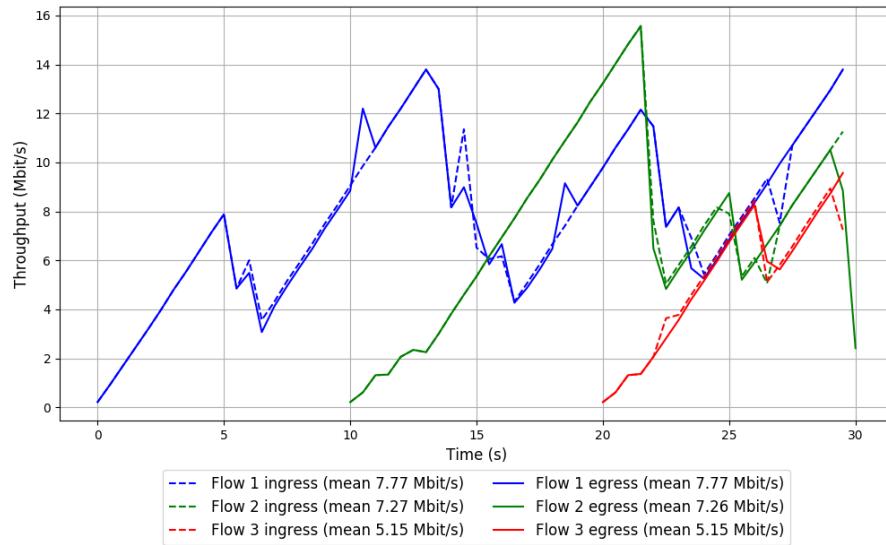
Run 5: Statistics of LEDBAT

Start at: 2017-11-22 05:07:20

End at: 2017-11-22 05:07:50

```
# Below is generated by plot.py at 2017-11-22 07:42:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.29 Mbit/s
95th percentile per-packet one-way delay: 63.794 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 7.77 Mbit/s
95th percentile per-packet one-way delay: 63.819 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 7.26 Mbit/s
95th percentile per-packet one-way delay: 63.604 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 5.15 Mbit/s
95th percentile per-packet one-way delay: 63.890 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link



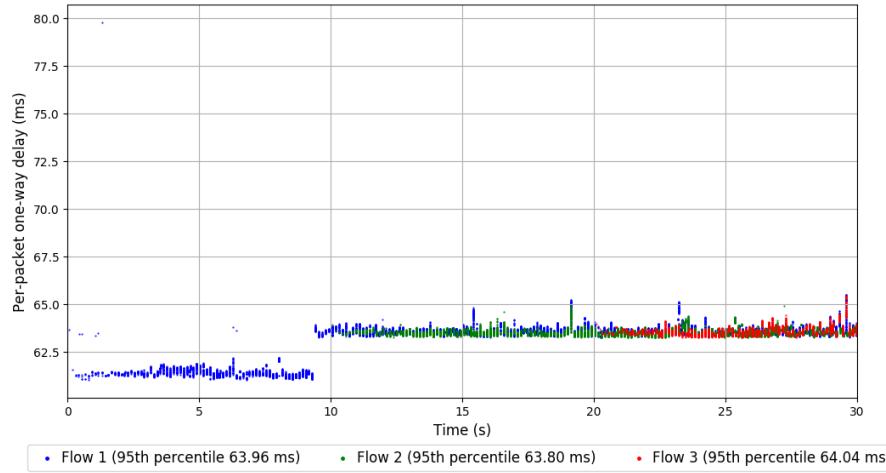
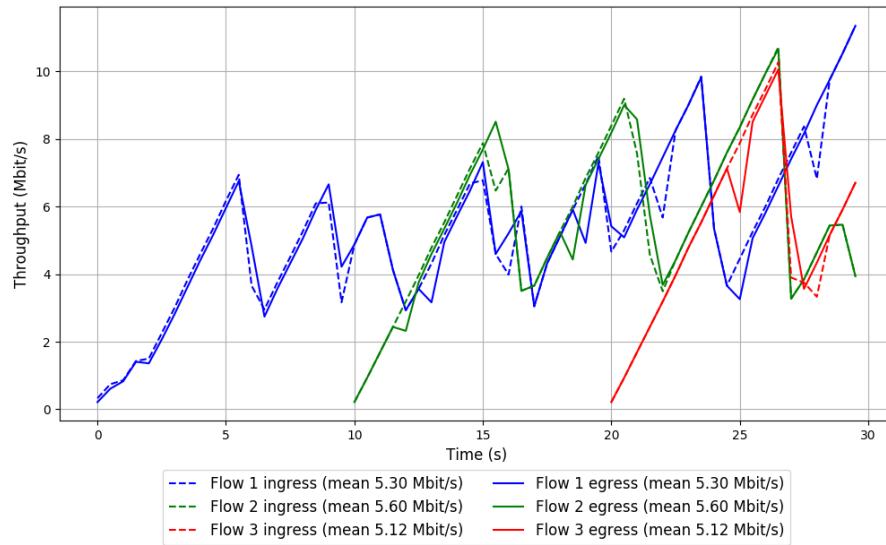
Run 6: Statistics of LEDBAT

Start at: 2017-11-22 05:19:36

End at: 2017-11-22 05:20:06

```
# Below is generated by plot.py at 2017-11-22 07:42:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.72 Mbit/s
95th percentile per-packet one-way delay: 63.926 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 5.30 Mbit/s
95th percentile per-packet one-way delay: 63.957 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 5.60 Mbit/s
95th percentile per-packet one-way delay: 63.796 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 5.12 Mbit/s
95th percentile per-packet one-way delay: 64.040 ms
Loss rate: 0.02%
```

Run 6: Report of LEDBAT — Data Link



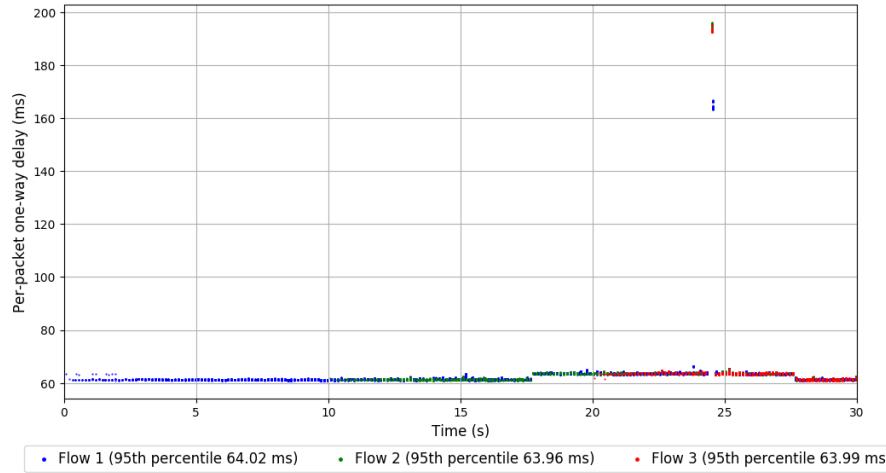
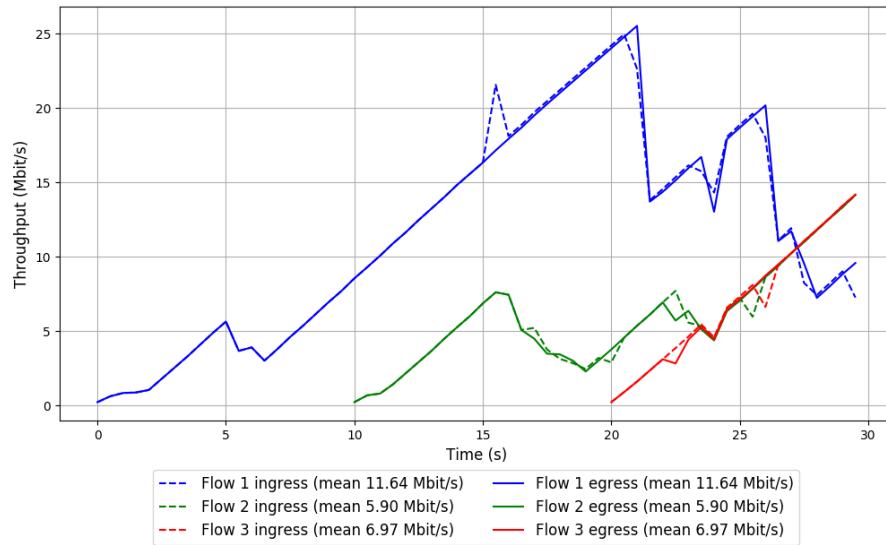
Run 7: Statistics of LEDBAT

Start at: 2017-11-22 05:31:47

End at: 2017-11-22 05:32:17

```
# Below is generated by plot.py at 2017-11-22 07:42:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.84 Mbit/s
95th percentile per-packet one-way delay: 64.004 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.64 Mbit/s
95th percentile per-packet one-way delay: 64.024 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.90 Mbit/s
95th percentile per-packet one-way delay: 63.961 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 6.97 Mbit/s
95th percentile per-packet one-way delay: 63.994 ms
Loss rate: 0.00%
```

Run 7: Report of LEDBAT — Data Link



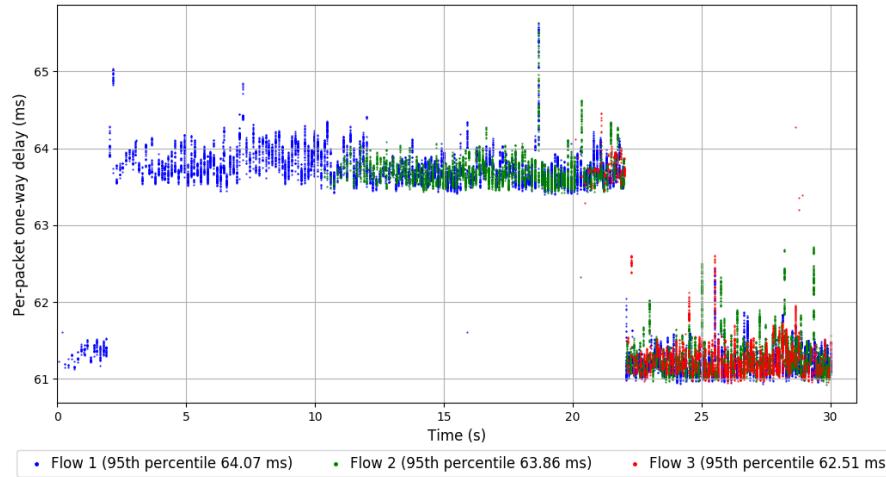
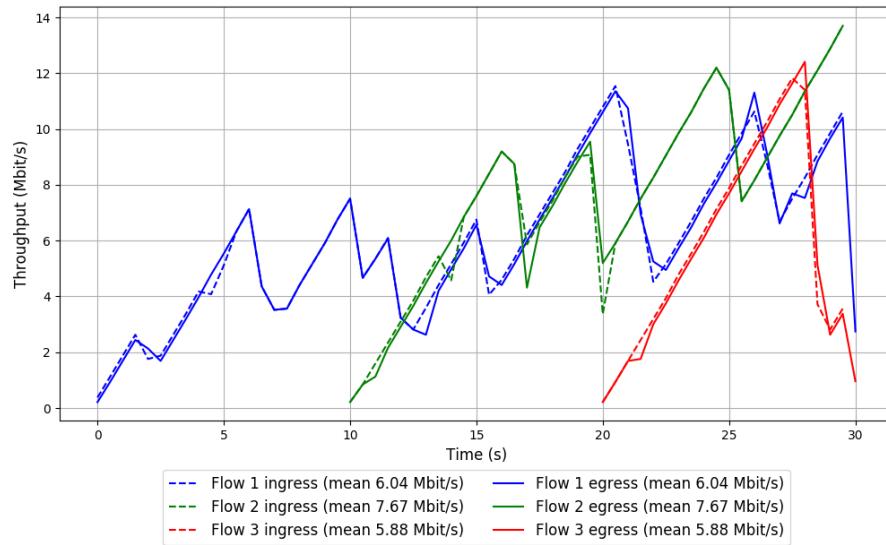
Run 8: Statistics of LEDBAT

Start at: 2017-11-22 05:44:03

End at: 2017-11-22 05:44:33

```
# Below is generated by plot.py at 2017-11-22 07:42:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.07 Mbit/s
95th percentile per-packet one-way delay: 63.986 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 6.04 Mbit/s
95th percentile per-packet one-way delay: 64.066 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 7.67 Mbit/s
95th percentile per-packet one-way delay: 63.860 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 5.88 Mbit/s
95th percentile per-packet one-way delay: 62.507 ms
Loss rate: 0.02%
```

Run 8: Report of LEDBAT — Data Link



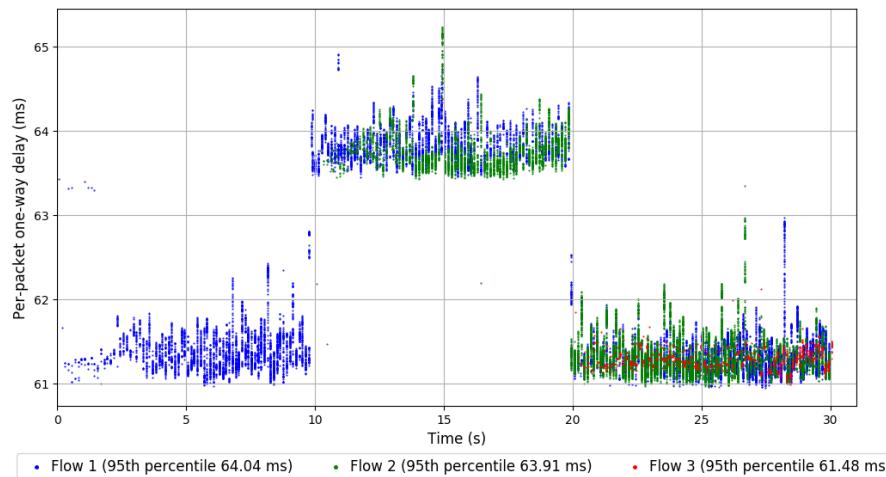
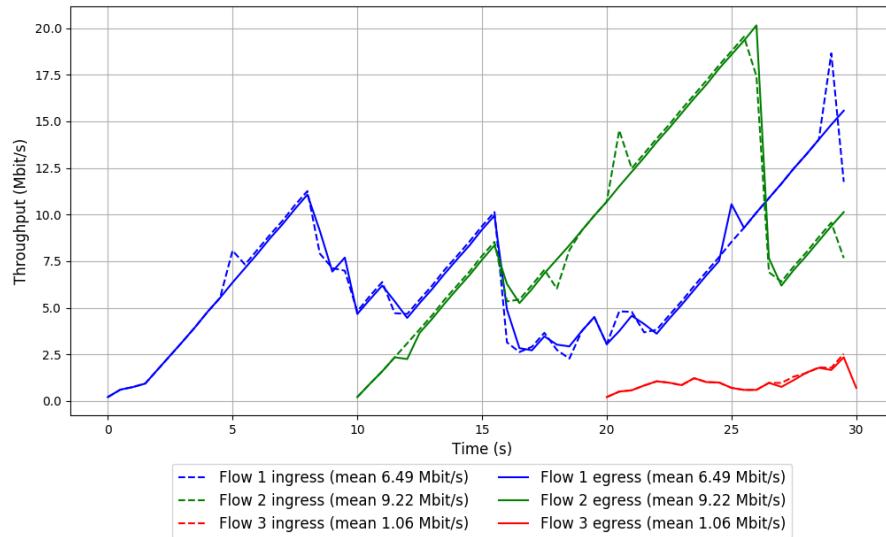
Run 9: Statistics of LEDBAT

Start at: 2017-11-22 05:56:05

End at: 2017-11-22 05:56:35

```
# Below is generated by plot.py at 2017-11-22 07:42:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.94 Mbit/s
95th percentile per-packet one-way delay: 63.991 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 6.49 Mbit/s
95th percentile per-packet one-way delay: 64.038 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 9.22 Mbit/s
95th percentile per-packet one-way delay: 63.914 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 1.06 Mbit/s
95th percentile per-packet one-way delay: 61.484 ms
Loss rate: 0.00%
```

Run 9: Report of LEDBAT — Data Link



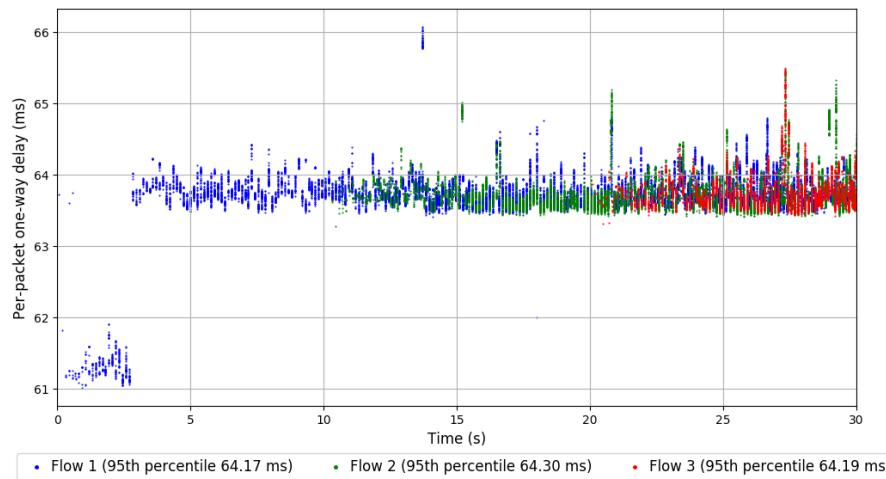
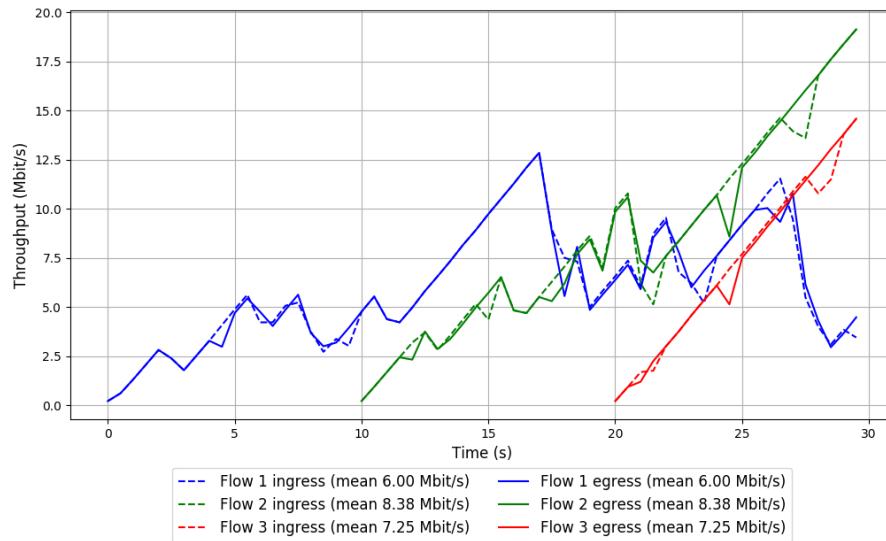
Run 10: Statistics of LEDBAT

Start at: 2017-11-22 06:08:22

End at: 2017-11-22 06:08:52

```
# Below is generated by plot.py at 2017-11-22 07:42:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.95 Mbit/s
95th percentile per-packet one-way delay: 64.203 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 6.00 Mbit/s
95th percentile per-packet one-way delay: 64.167 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 8.38 Mbit/s
95th percentile per-packet one-way delay: 64.298 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.25 Mbit/s
95th percentile per-packet one-way delay: 64.191 ms
Loss rate: 0.00%
```

Run 10: Report of LEDBAT — Data Link

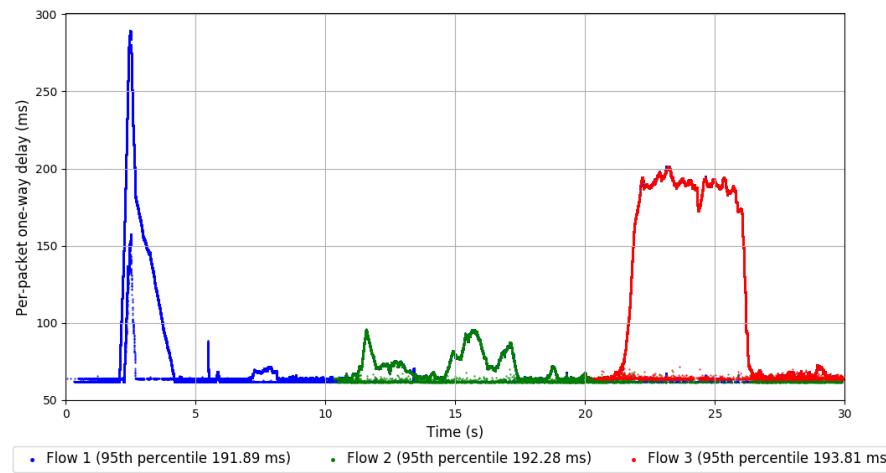
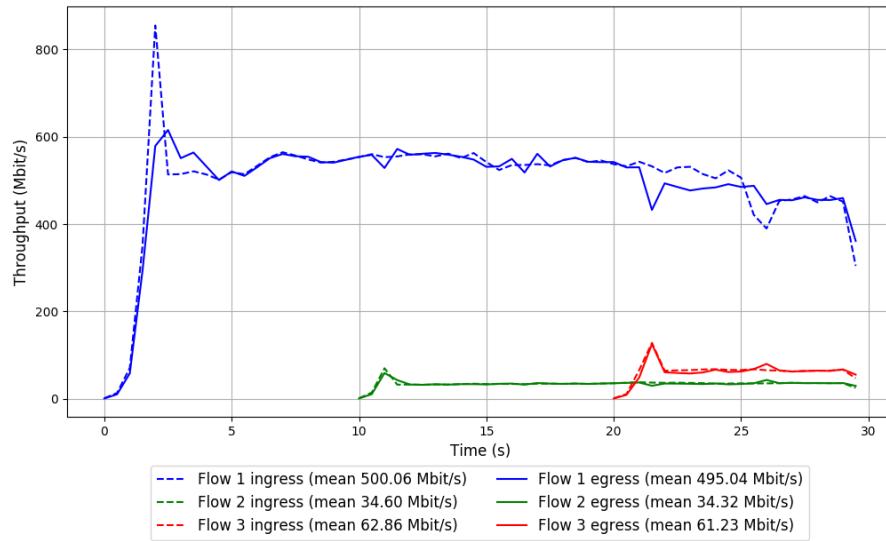


```
Run 1: Statistics of PCC

Start at: 2017-11-22 04:12:48
End at: 2017-11-22 04:13:18

# Below is generated by plot.py at 2017-11-22 07:51:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 537.97 Mbit/s
95th percentile per-packet one-way delay: 192.062 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 495.04 Mbit/s
95th percentile per-packet one-way delay: 191.894 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 34.32 Mbit/s
95th percentile per-packet one-way delay: 192.282 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 61.23 Mbit/s
95th percentile per-packet one-way delay: 193.807 ms
Loss rate: 2.62%
```

Run 1: Report of PCC — Data Link



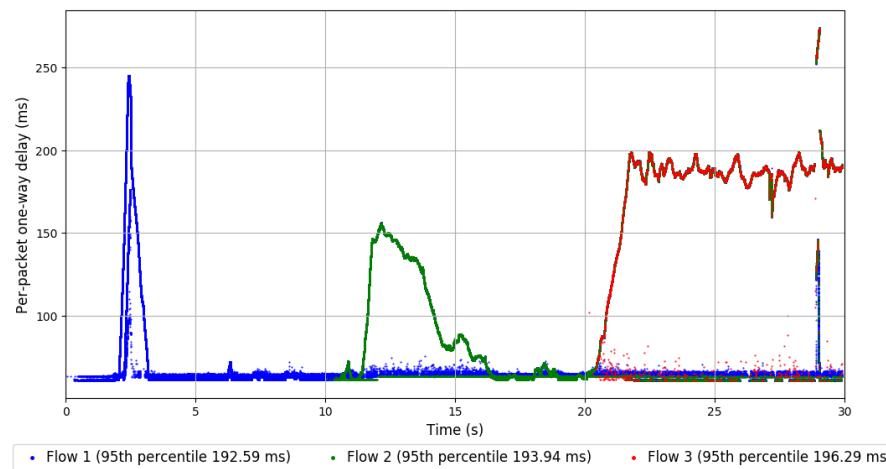
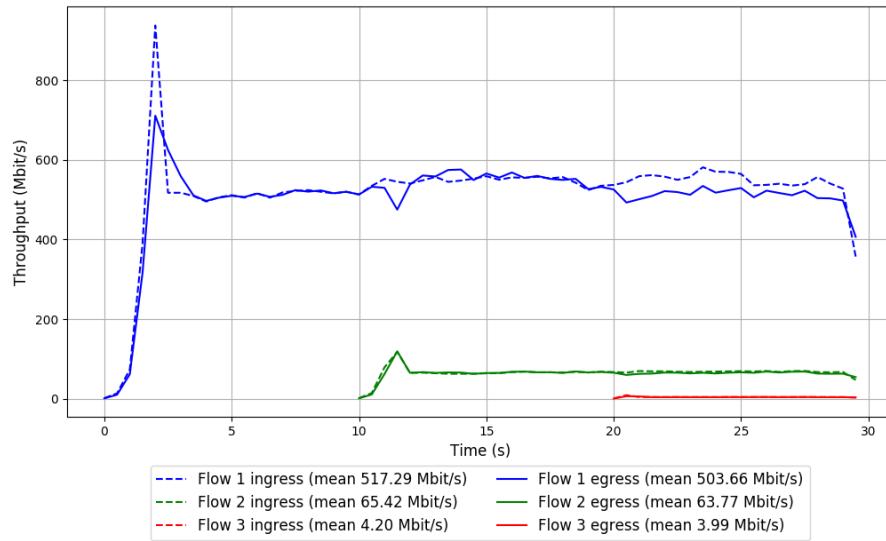
Run 2: Statistics of PCC

Start at: 2017-11-22 04:25:13

End at: 2017-11-22 04:25:43

```
# Below is generated by plot.py at 2017-11-22 07:51:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 547.34 Mbit/s
95th percentile per-packet one-way delay: 192.780 ms
Loss rate: 2.64%
-- Flow 1:
Average throughput: 503.66 Mbit/s
95th percentile per-packet one-way delay: 192.587 ms
Loss rate: 2.64%
-- Flow 2:
Average throughput: 63.77 Mbit/s
95th percentile per-packet one-way delay: 193.944 ms
Loss rate: 2.51%
-- Flow 3:
Average throughput: 3.99 Mbit/s
95th percentile per-packet one-way delay: 196.294 ms
Loss rate: 5.22%
```

Run 2: Report of PCC — Data Link



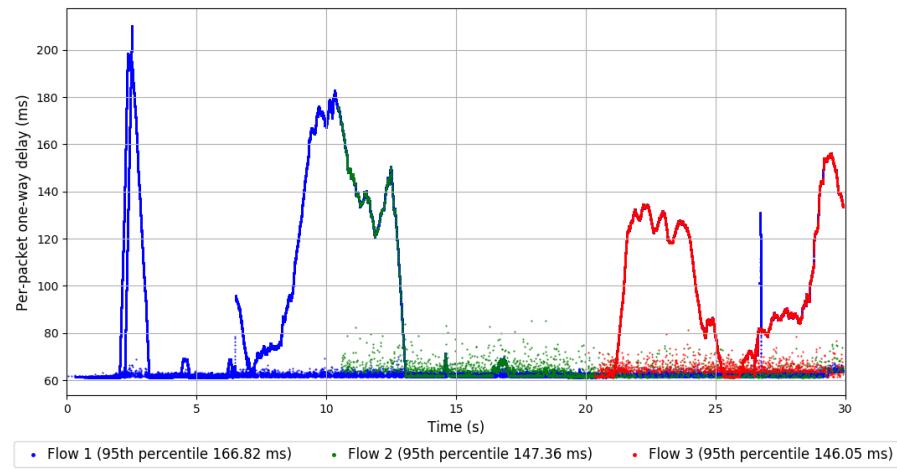
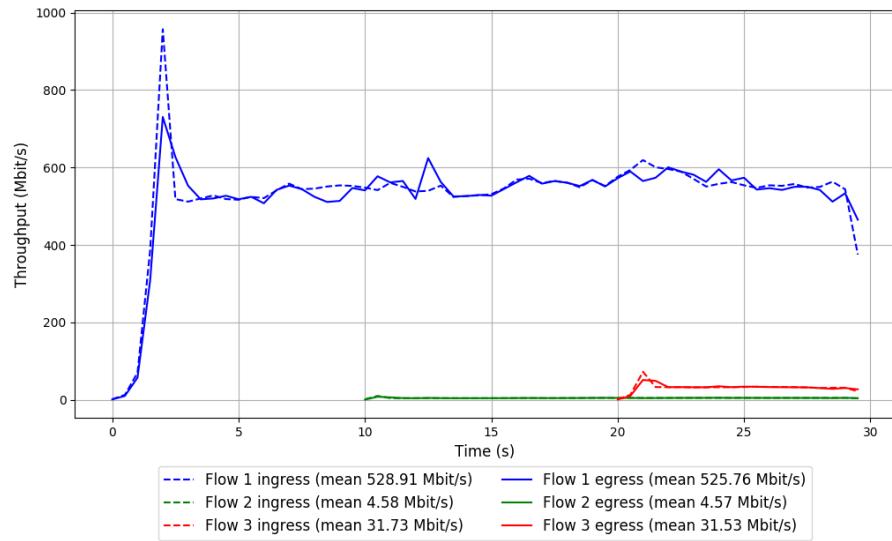
Run 3: Statistics of PCC

Start at: 2017-11-22 04:37:36

End at: 2017-11-22 04:38:06

```
# Below is generated by plot.py at 2017-11-22 07:51:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 539.18 Mbit/s
95th percentile per-packet one-way delay: 166.488 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 525.76 Mbit/s
95th percentile per-packet one-way delay: 166.816 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 4.57 Mbit/s
95th percentile per-packet one-way delay: 147.360 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 31.53 Mbit/s
95th percentile per-packet one-way delay: 146.048 ms
Loss rate: 0.70%
```

Run 3: Report of PCC — Data Link



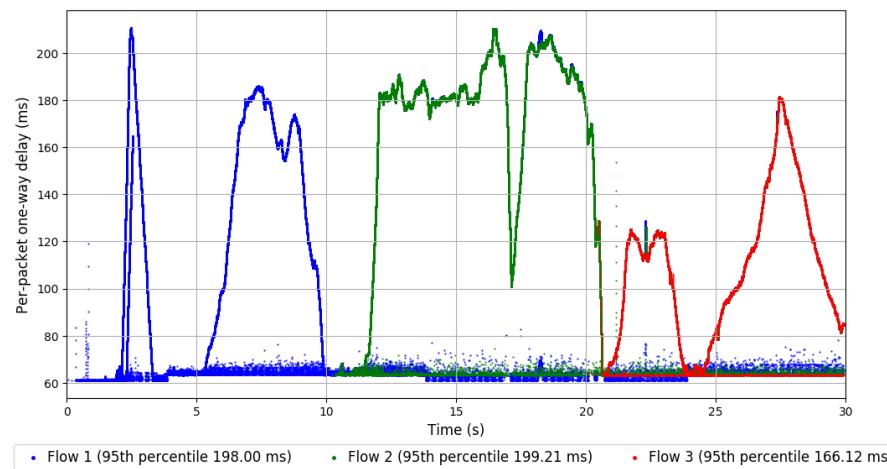
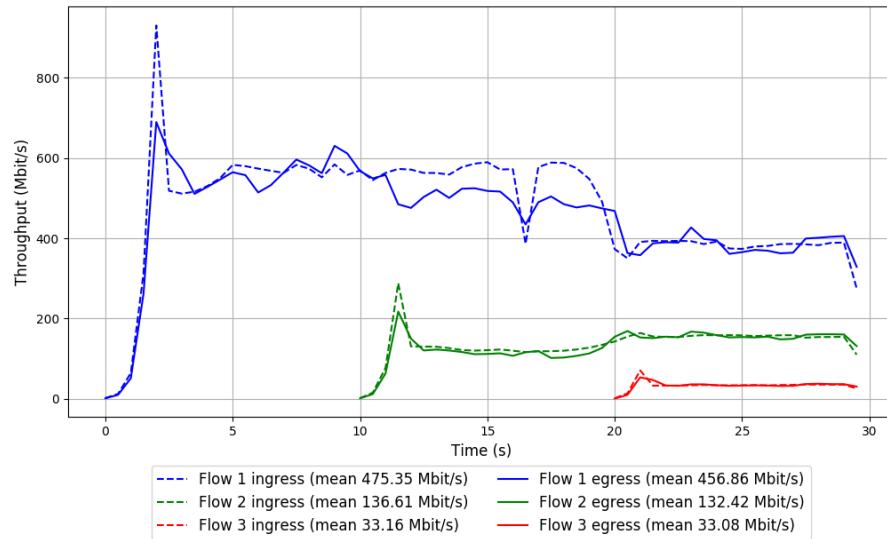
Run 4: Statistics of PCC

Start at: 2017-11-22 04:49:41

End at: 2017-11-22 04:50:11

```
# Below is generated by plot.py at 2017-11-22 07:51:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 555.74 Mbit/s
95th percentile per-packet one-way delay: 198.023 ms
Loss rate: 3.70%
-- Flow 1:
Average throughput: 456.86 Mbit/s
95th percentile per-packet one-way delay: 197.995 ms
Loss rate: 3.89%
-- Flow 2:
Average throughput: 132.42 Mbit/s
95th percentile per-packet one-way delay: 199.213 ms
Loss rate: 3.10%
-- Flow 3:
Average throughput: 33.08 Mbit/s
95th percentile per-packet one-way delay: 166.115 ms
Loss rate: 0.25%
```

Run 4: Report of PCC — Data Link



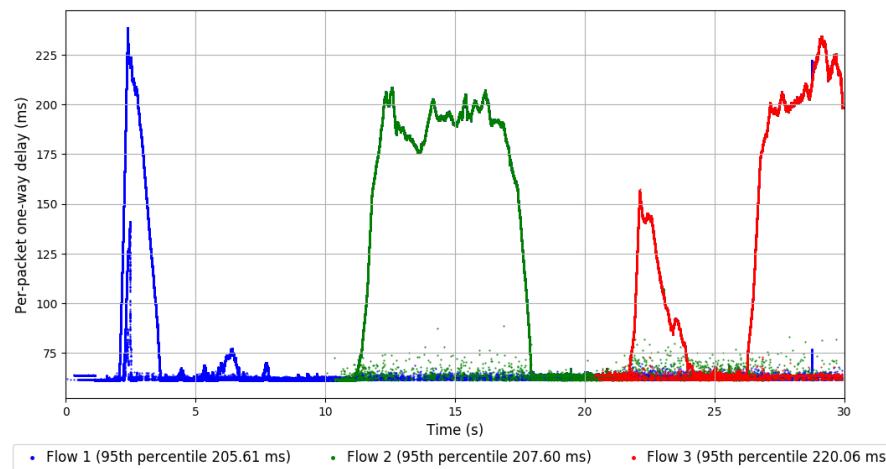
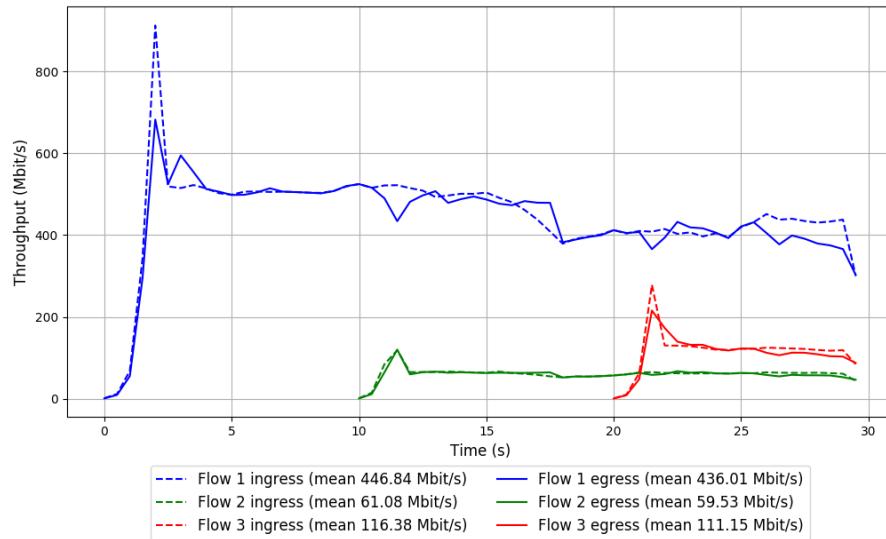
Run 5: Statistics of PCC

Start at: 2017-11-22 05:02:04

End at: 2017-11-22 05:02:34

```
# Below is generated by plot.py at 2017-11-22 07:51:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 512.05 Mbit/s
95th percentile per-packet one-way delay: 206.376 ms
Loss rate: 2.57%
-- Flow 1:
Average throughput: 436.01 Mbit/s
95th percentile per-packet one-way delay: 205.607 ms
Loss rate: 2.41%
-- Flow 2:
Average throughput: 59.53 Mbit/s
95th percentile per-packet one-way delay: 207.605 ms
Loss rate: 2.53%
-- Flow 3:
Average throughput: 111.15 Mbit/s
95th percentile per-packet one-way delay: 220.056 ms
Loss rate: 4.44%
```

Run 5: Report of PCC — Data Link



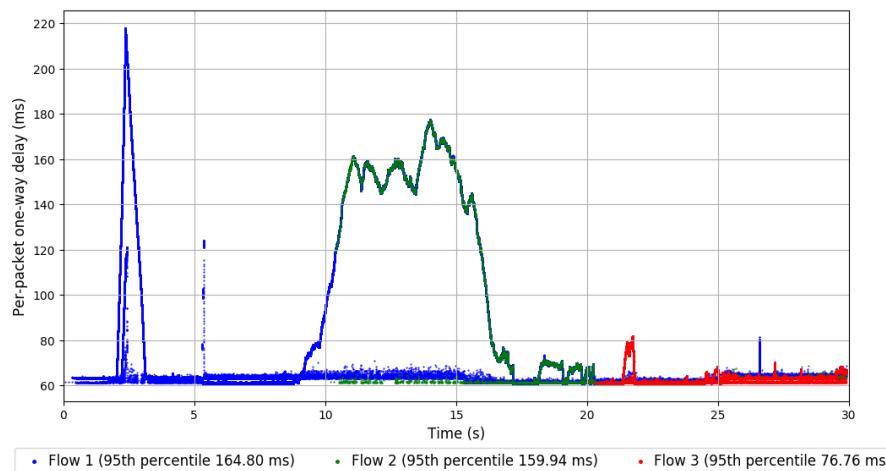
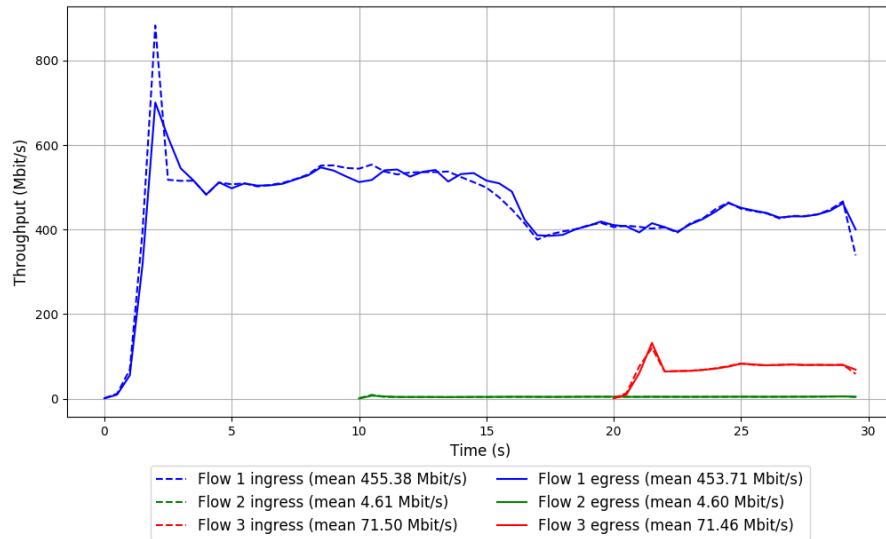
Run 6: Statistics of PCC

Start at: 2017-11-22 05:14:30

End at: 2017-11-22 05:15:00

```
# Below is generated by plot.py at 2017-11-22 07:51:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 480.32 Mbit/s
95th percentile per-packet one-way delay: 163.881 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 453.71 Mbit/s
95th percentile per-packet one-way delay: 164.801 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 4.60 Mbit/s
95th percentile per-packet one-way delay: 159.935 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 71.46 Mbit/s
95th percentile per-packet one-way delay: 76.761 ms
Loss rate: 0.02%
```

Run 6: Report of PCC — Data Link



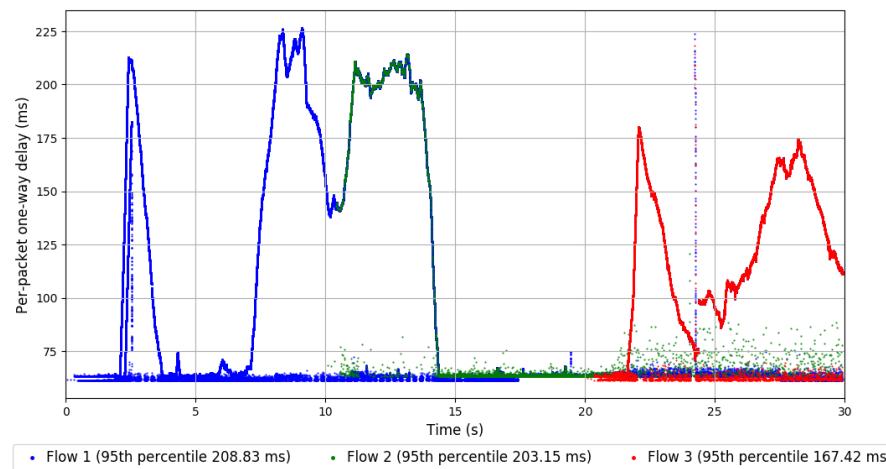
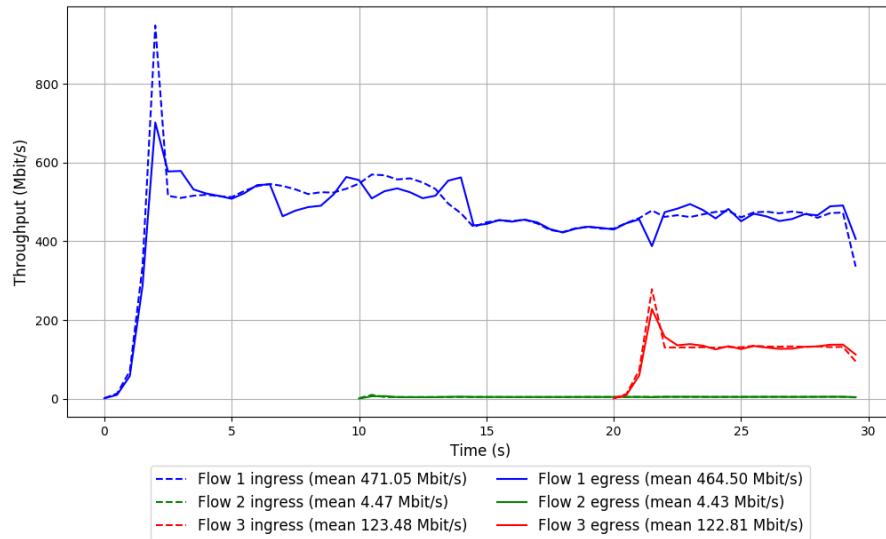
Run 7: Statistics of PCC

Start at: 2017-11-22 05:26:48

End at: 2017-11-22 05:27:18

```
# Below is generated by plot.py at 2017-11-22 07:51:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 507.87 Mbit/s
95th percentile per-packet one-way delay: 207.848 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 464.50 Mbit/s
95th percentile per-packet one-way delay: 208.827 ms
Loss rate: 1.38%
-- Flow 2:
Average throughput: 4.43 Mbit/s
95th percentile per-packet one-way delay: 203.147 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 122.81 Mbit/s
95th percentile per-packet one-way delay: 167.422 ms
Loss rate: 0.54%
```

Run 7: Report of PCC — Data Link



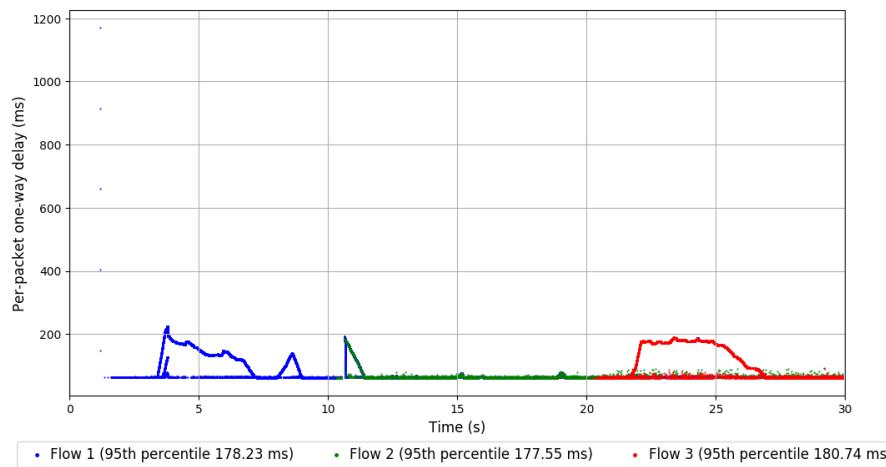
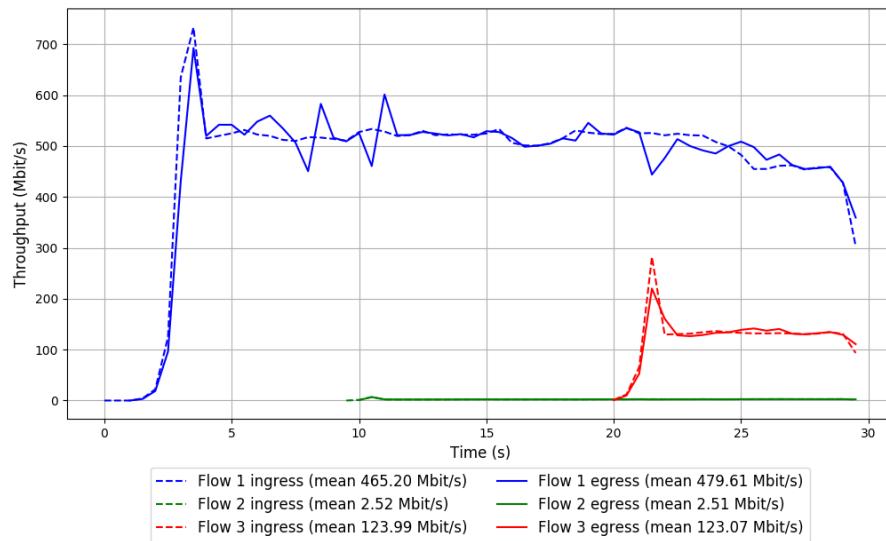
Run 8: Statistics of PCC

Start at: 2017-11-22 05:39:01

End at: 2017-11-22 05:39:31

```
# Below is generated by plot.py at 2017-11-22 07:51:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 523.45 Mbit/s
95th percentile per-packet one-way delay: 178.536 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 479.61 Mbit/s
95th percentile per-packet one-way delay: 178.231 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 2.51 Mbit/s
95th percentile per-packet one-way delay: 177.551 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 123.07 Mbit/s
95th percentile per-packet one-way delay: 180.741 ms
Loss rate: 0.75%
```

Run 8: Report of PCC — Data Link



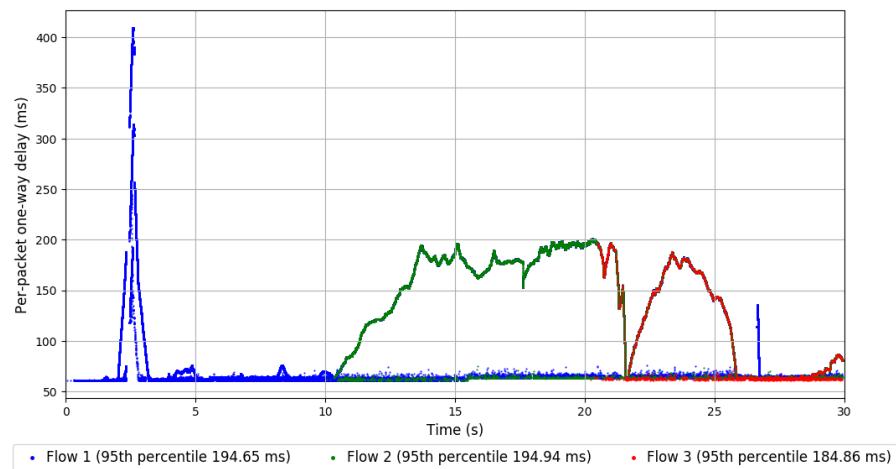
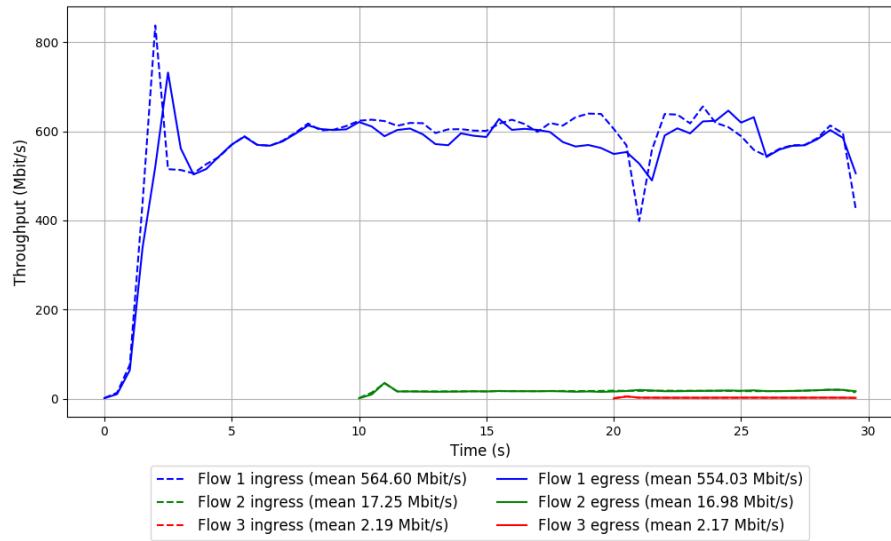
Run 9: Statistics of PCC

Start at: 2017-11-22 05:51:09

End at: 2017-11-22 05:51:39

```
# Below is generated by plot.py at 2017-11-22 08:01:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 566.00 Mbit/s
95th percentile per-packet one-way delay: 194.648 ms
Loss rate: 1.85%
-- Flow 1:
Average throughput: 554.03 Mbit/s
95th percentile per-packet one-way delay: 194.647 ms
Loss rate: 1.86%
-- Flow 2:
Average throughput: 16.98 Mbit/s
95th percentile per-packet one-way delay: 194.945 ms
Loss rate: 1.56%
-- Flow 3:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 184.863 ms
Loss rate: 0.95%
```

Run 9: Report of PCC — Data Link



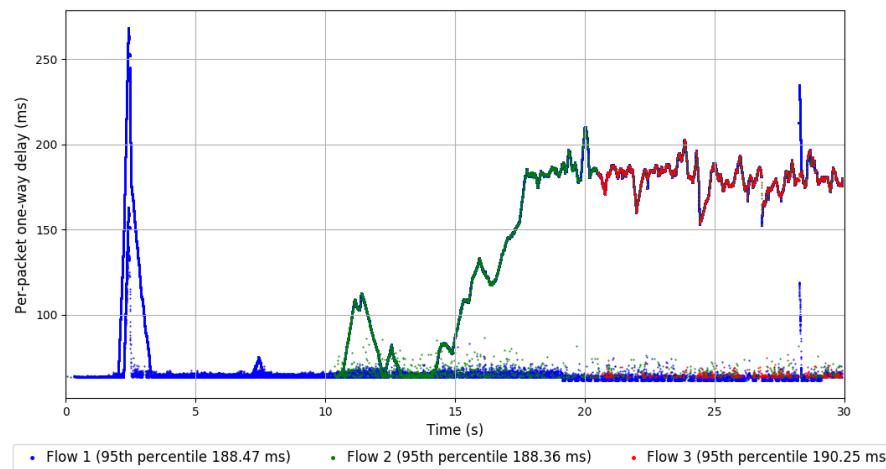
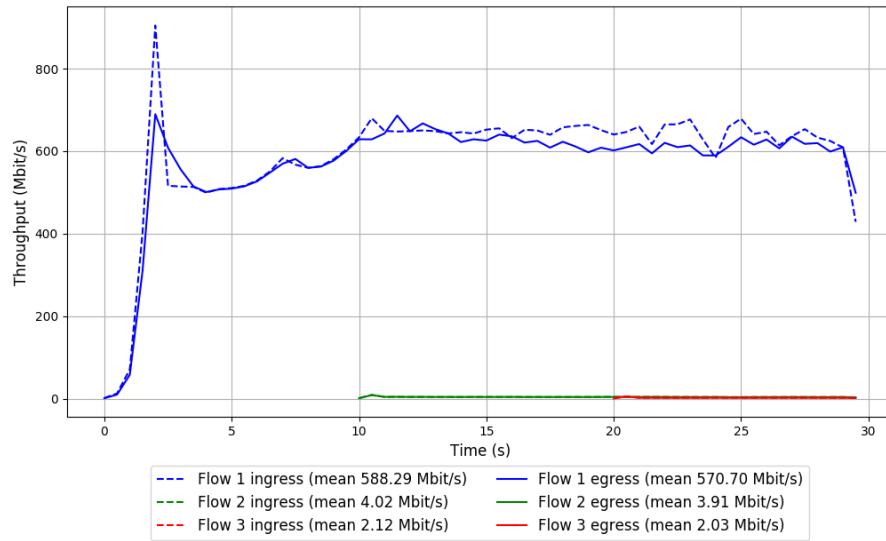
Run 10: Statistics of PCC

Start at: 2017-11-22 06:03:16

End at: 2017-11-22 06:03:46

```
# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 573.96 Mbit/s
95th percentile per-packet one-way delay: 188.475 ms
Loss rate: 2.99%
-- Flow 1:
Average throughput: 570.70 Mbit/s
95th percentile per-packet one-way delay: 188.474 ms
Loss rate: 2.99%
-- Flow 2:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 188.362 ms
Loss rate: 2.74%
-- Flow 3:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 190.255 ms
Loss rate: 4.32%
```

Run 10: Report of PCC — Data Link

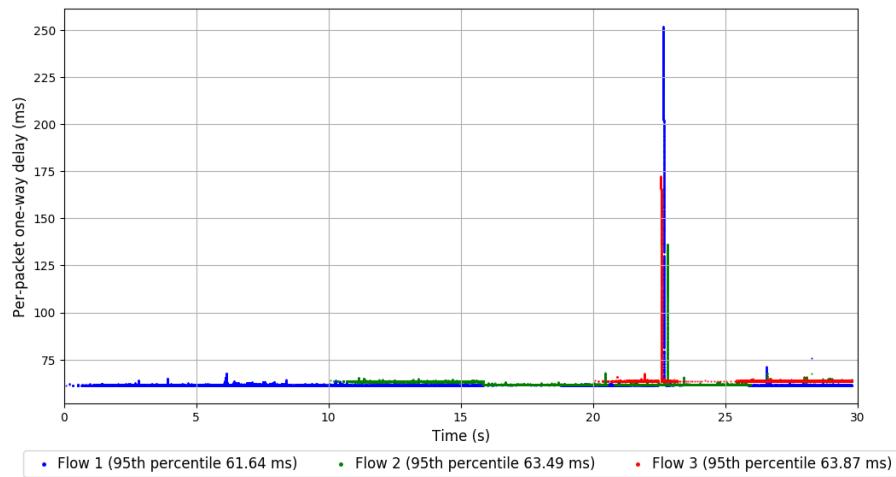
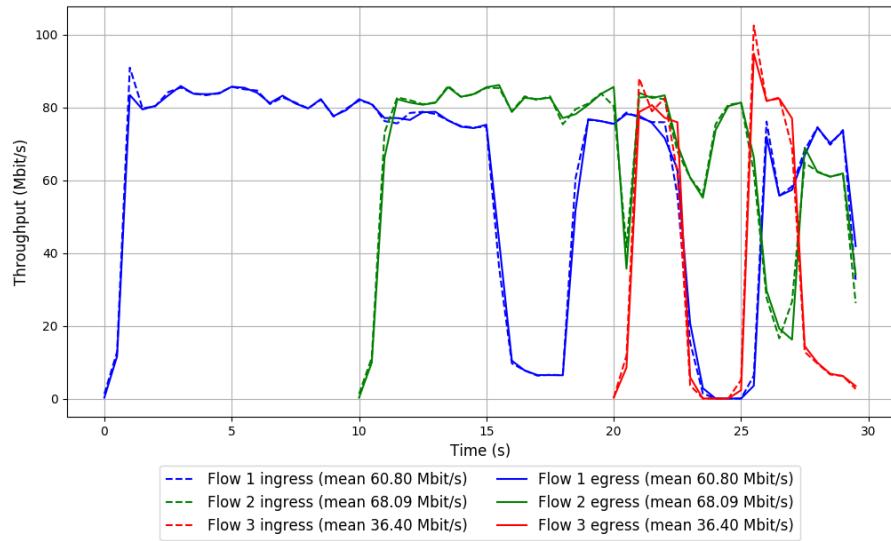


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-11-22 04:20:19
End at: 2017-11-22 04:20:49

# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 117.83 Mbit/s
95th percentile per-packet one-way delay: 63.687 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.80 Mbit/s
95th percentile per-packet one-way delay: 61.644 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 68.09 Mbit/s
95th percentile per-packet one-way delay: 63.493 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 36.40 Mbit/s
95th percentile per-packet one-way delay: 63.872 ms
Loss rate: 0.00%
```

Run 1: Report of QUIC Cubic — Data Link



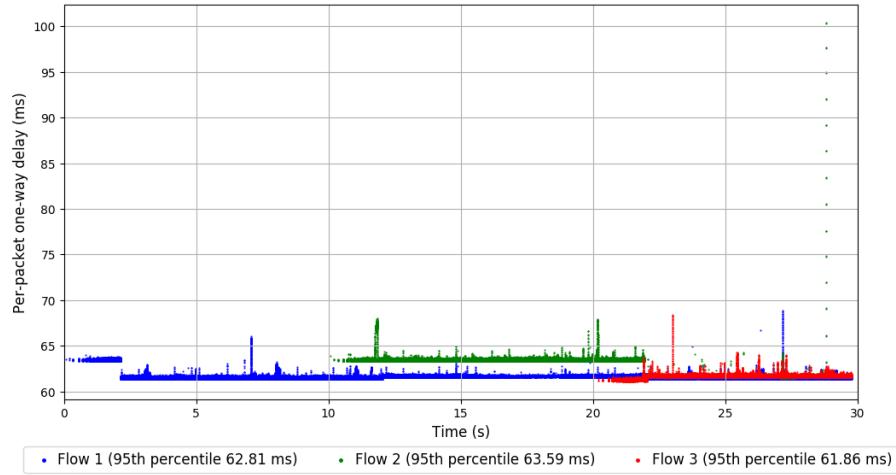
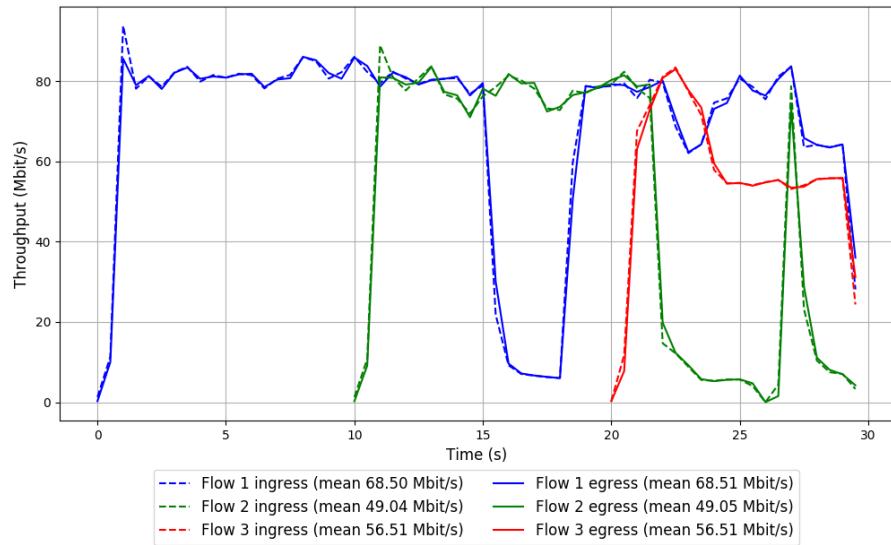
Run 2: Statistics of QUIC Cubic

Start at: 2017-11-22 04:32:43

End at: 2017-11-22 04:33:13

```
# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 119.48 Mbit/s
95th percentile per-packet one-way delay: 63.492 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 68.51 Mbit/s
95th percentile per-packet one-way delay: 62.808 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 49.05 Mbit/s
95th percentile per-packet one-way delay: 63.592 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 56.51 Mbit/s
95th percentile per-packet one-way delay: 61.856 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link



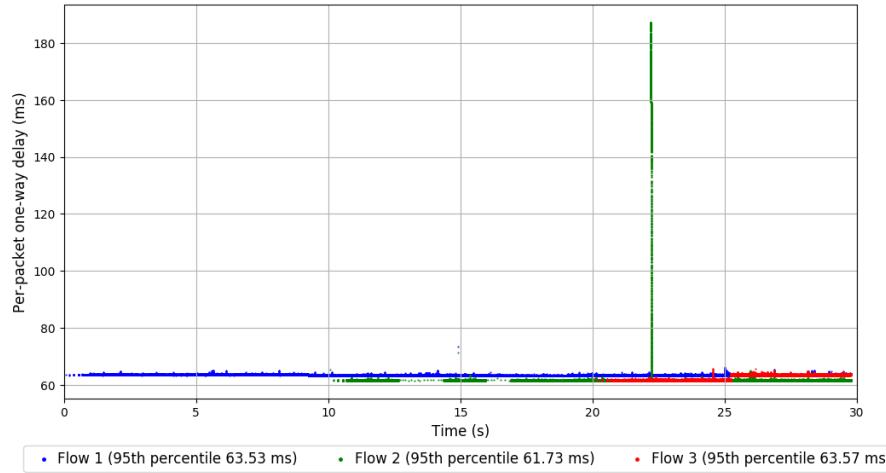
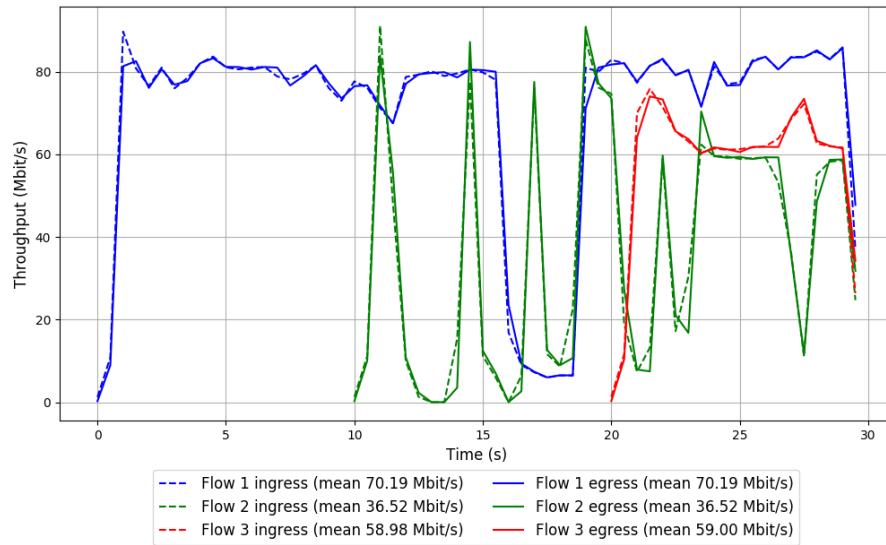
```
Run 3: Statistics of QUIC Cubic
```

```
Start at: 2017-11-22 04:44:50
```

```
End at: 2017-11-22 04:45:20
```

```
# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 113.66 Mbit/s
95th percentile per-packet one-way delay: 63.530 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 70.19 Mbit/s
95th percentile per-packet one-way delay: 63.534 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 36.52 Mbit/s
95th percentile per-packet one-way delay: 61.731 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 59.00 Mbit/s
95th percentile per-packet one-way delay: 63.571 ms
Loss rate: 0.00%
```

Run 3: Report of QUIC Cubic — Data Link



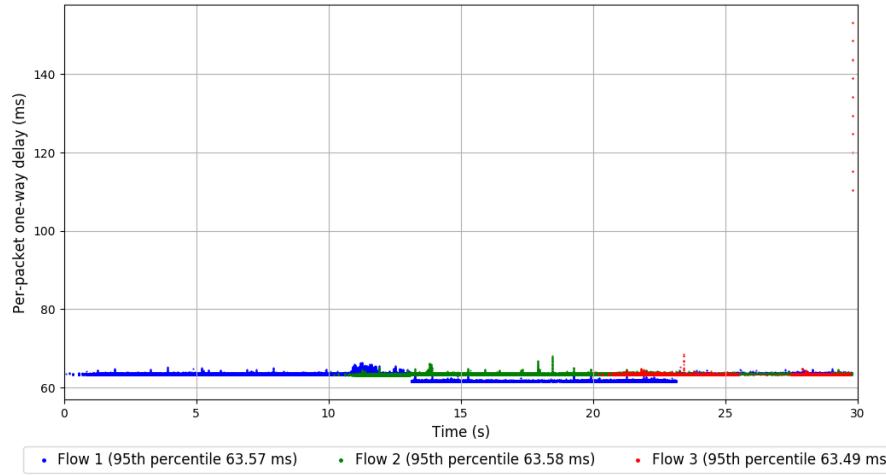
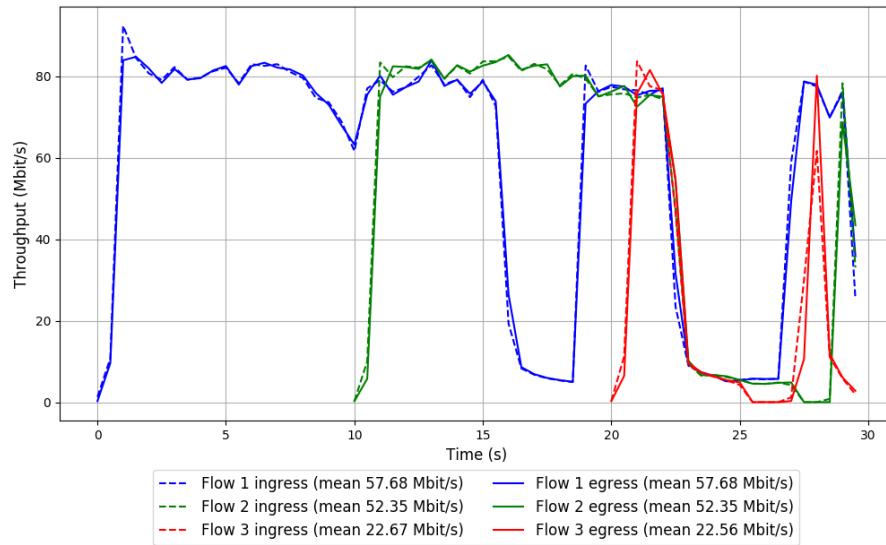
Run 4: Statistics of QUIC Cubic

Start at: 2017-11-22 04:57:12

End at: 2017-11-22 04:57:42

```
# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 99.64 Mbit/s
95th percentile per-packet one-way delay: 63.571 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 57.68 Mbit/s
95th percentile per-packet one-way delay: 63.570 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 52.35 Mbit/s
95th percentile per-packet one-way delay: 63.583 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 22.56 Mbit/s
95th percentile per-packet one-way delay: 63.490 ms
Loss rate: 0.00%
```

Run 4: Report of QUIC Cubic — Data Link



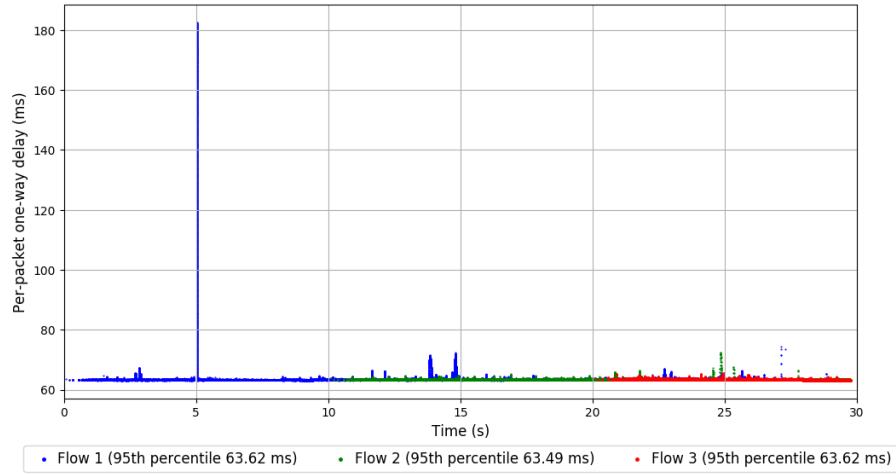
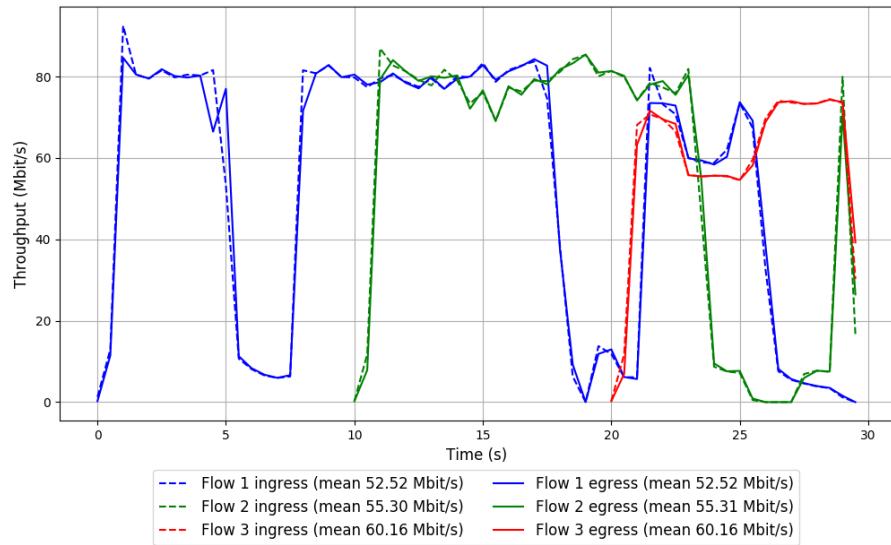
Run 5: Statistics of QUIC Cubic

Start at: 2017-11-22 05:09:37

End at: 2017-11-22 05:10:07

```
# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 108.61 Mbit/s
95th percentile per-packet one-way delay: 63.577 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 52.52 Mbit/s
95th percentile per-packet one-way delay: 63.625 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 55.31 Mbit/s
95th percentile per-packet one-way delay: 63.495 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 60.16 Mbit/s
95th percentile per-packet one-way delay: 63.624 ms
Loss rate: 0.02%
```

Run 5: Report of QUIC Cubic — Data Link



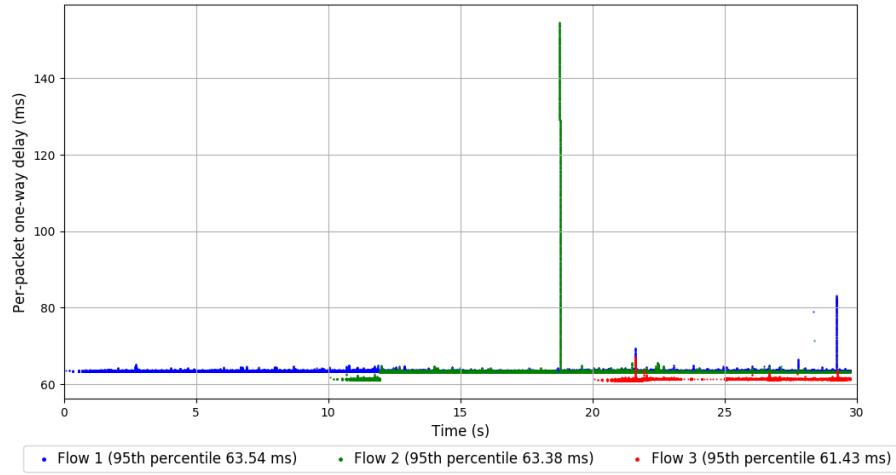
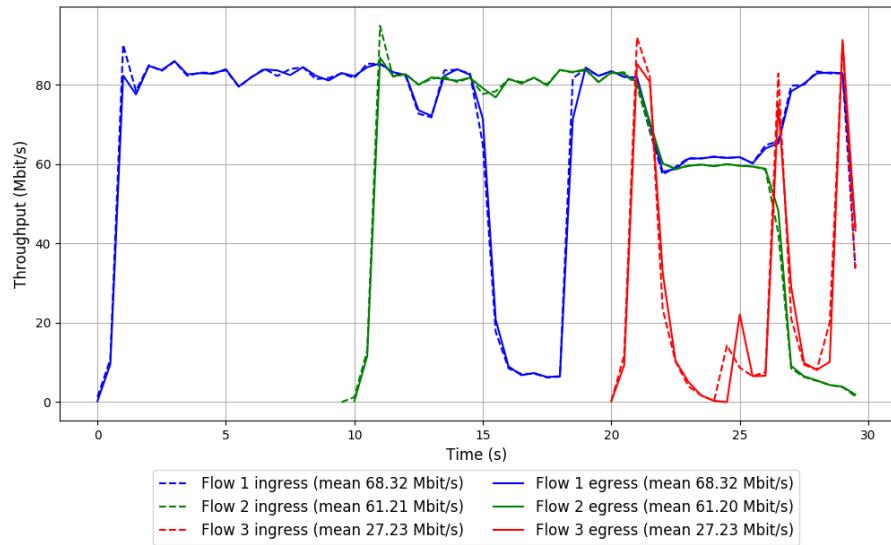
```
Run 6: Statistics of QUIC Cubic
```

```
Start at: 2017-11-22 05:21:53
```

```
End at: 2017-11-22 05:22:23
```

```
# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 117.80 Mbit/s
95th percentile per-packet one-way delay: 63.505 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 68.32 Mbit/s
95th percentile per-packet one-way delay: 63.540 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 61.20 Mbit/s
95th percentile per-packet one-way delay: 63.381 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 27.23 Mbit/s
95th percentile per-packet one-way delay: 61.432 ms
Loss rate: 0.00%
```

Run 6: Report of QUIC Cubic — Data Link



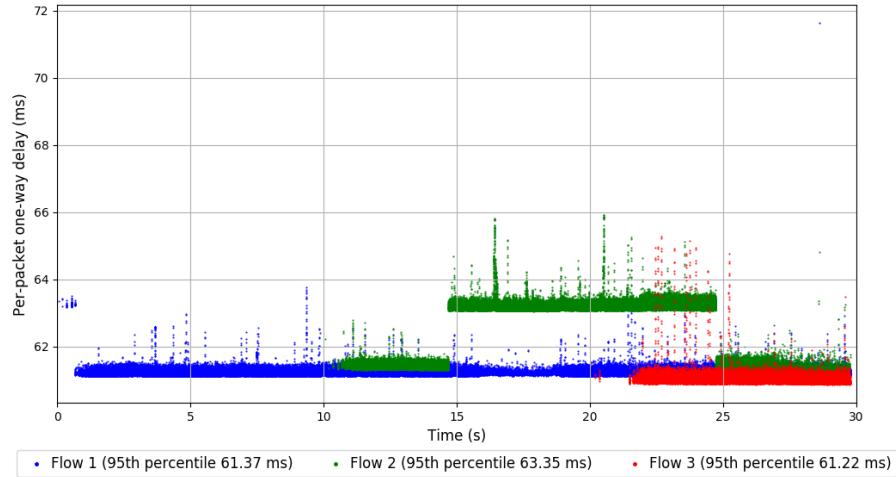
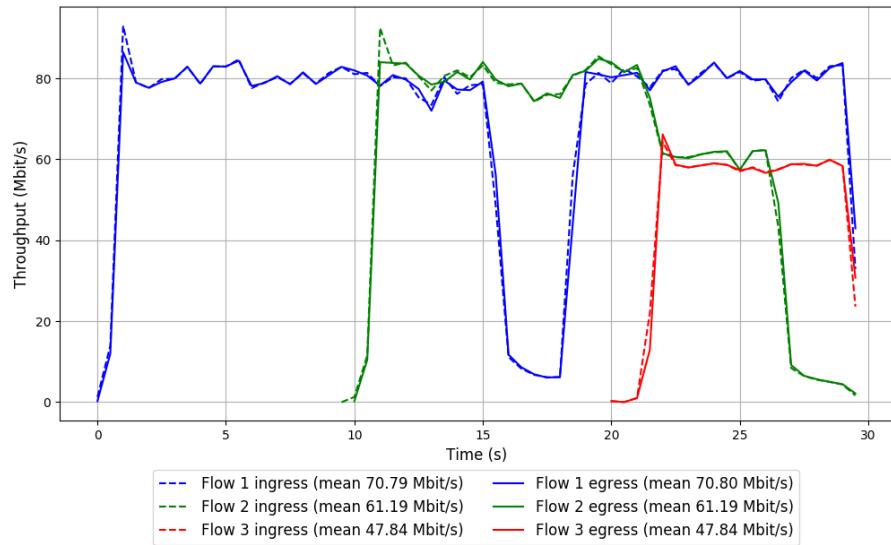
Run 7: Statistics of QUIC Cubic

Start at: 2017-11-22 05:34:04

End at: 2017-11-22 05:34:34

```
# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 126.99 Mbit/s
95th percentile per-packet one-way delay: 63.233 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 70.80 Mbit/s
95th percentile per-packet one-way delay: 61.372 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 61.19 Mbit/s
95th percentile per-packet one-way delay: 63.347 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 47.84 Mbit/s
95th percentile per-packet one-way delay: 61.222 ms
Loss rate: 0.00%
```

Run 7: Report of QUIC Cubic — Data Link



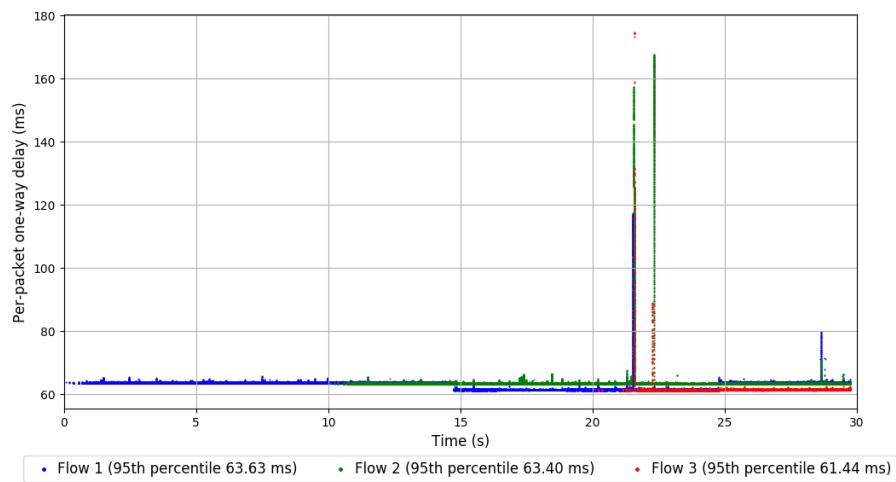
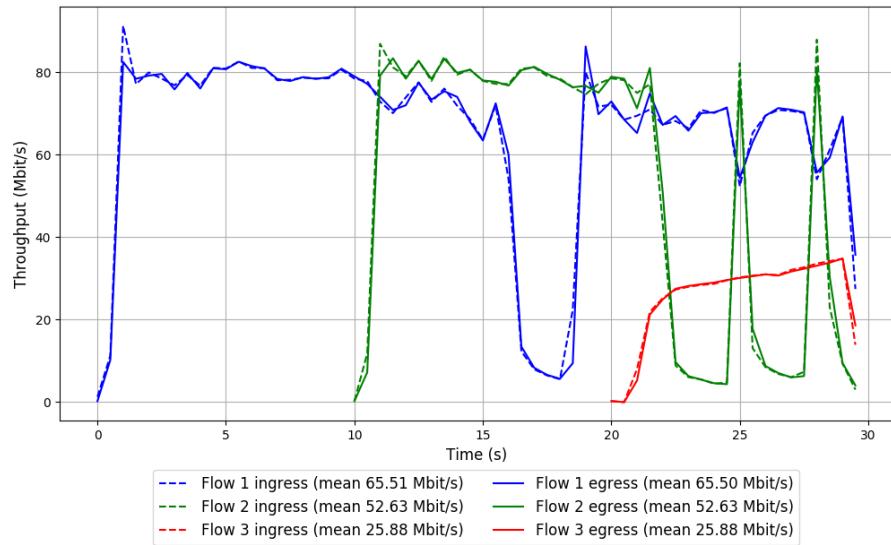
```
Run 8: Statistics of QUIC Cubic
```

```
Start at: 2017-11-22 05:46:20
```

```
End at: 2017-11-22 05:46:50
```

```
# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 108.81 Mbit/s
95th percentile per-packet one-way delay: 63.602 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 65.50 Mbit/s
95th percentile per-packet one-way delay: 63.634 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 52.63 Mbit/s
95th percentile per-packet one-way delay: 63.396 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 25.88 Mbit/s
95th percentile per-packet one-way delay: 61.435 ms
Loss rate: 0.00%
```

Run 8: Report of QUIC Cubic — Data Link



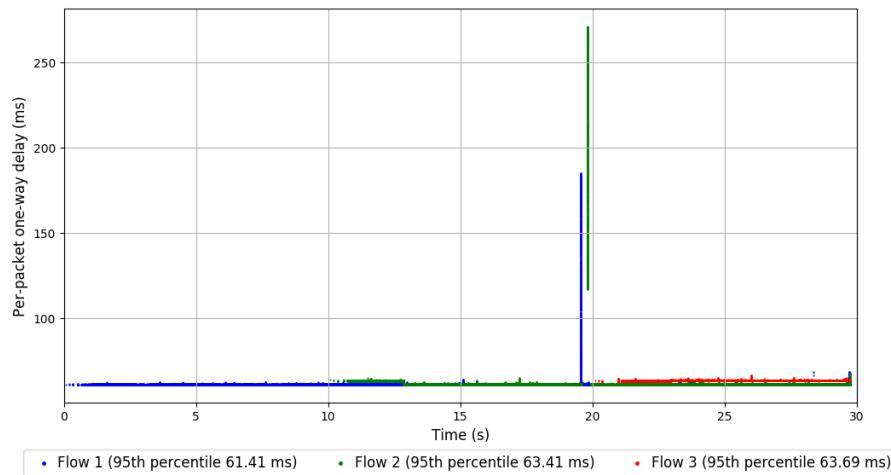
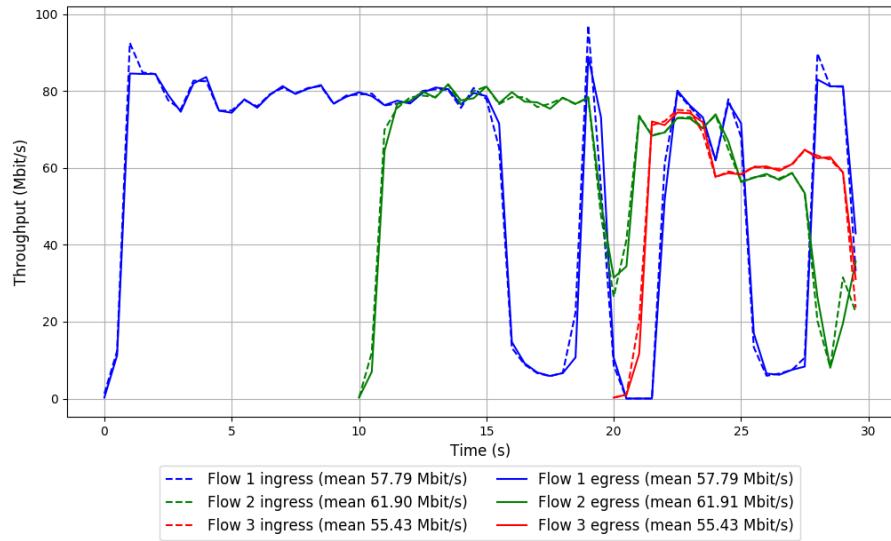
Run 9: Statistics of QUIC Cubic

Start at: 2017-11-22 05:58:22

End at: 2017-11-22 05:58:52

```
# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 116.86 Mbit/s
95th percentile per-packet one-way delay: 63.546 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 57.79 Mbit/s
95th percentile per-packet one-way delay: 61.405 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 61.91 Mbit/s
95th percentile per-packet one-way delay: 63.405 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 55.43 Mbit/s
95th percentile per-packet one-way delay: 63.689 ms
Loss rate: 0.00%
```

Run 9: Report of QUIC Cubic — Data Link



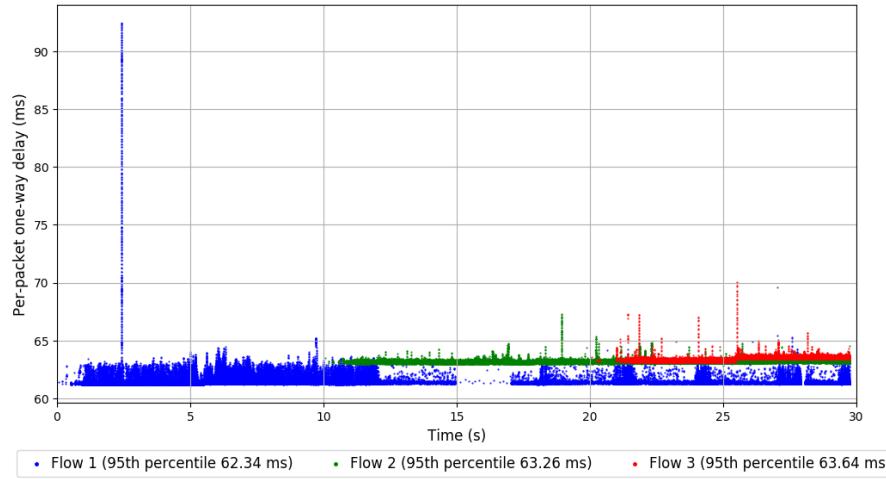
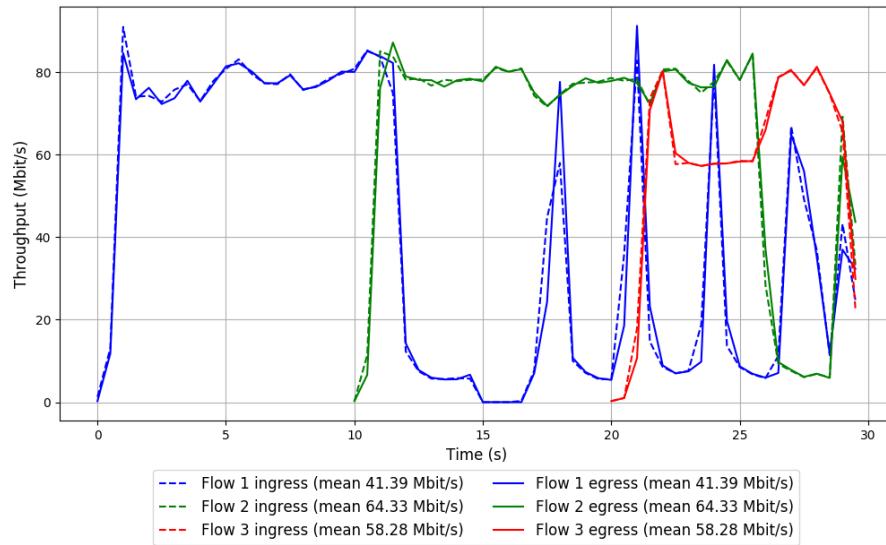
Run 10: Statistics of QUIC Cubic

Start at: 2017-11-22 06:10:39

End at: 2017-11-22 06:11:09

```
# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 103.03 Mbit/s
95th percentile per-packet one-way delay: 63.508 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 41.39 Mbit/s
95th percentile per-packet one-way delay: 62.339 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 64.33 Mbit/s
95th percentile per-packet one-way delay: 63.262 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 58.28 Mbit/s
95th percentile per-packet one-way delay: 63.637 ms
Loss rate: 0.02%
```

Run 10: Report of QUIC Cubic — Data Link

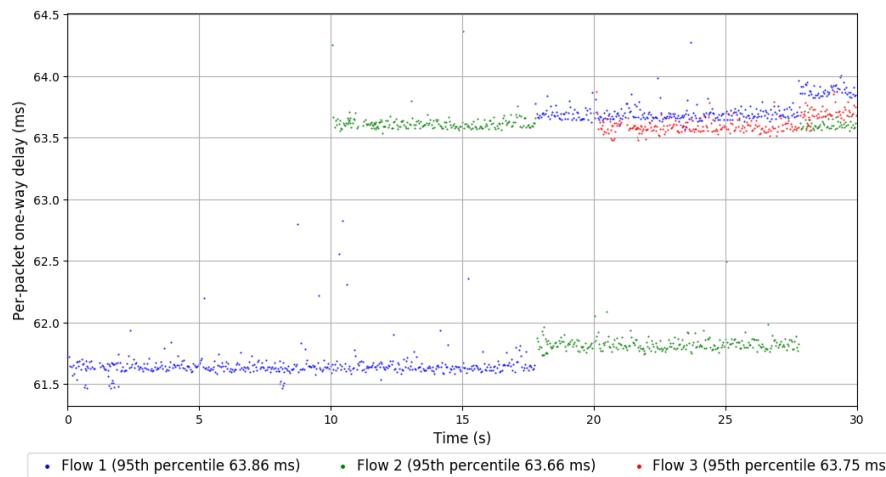
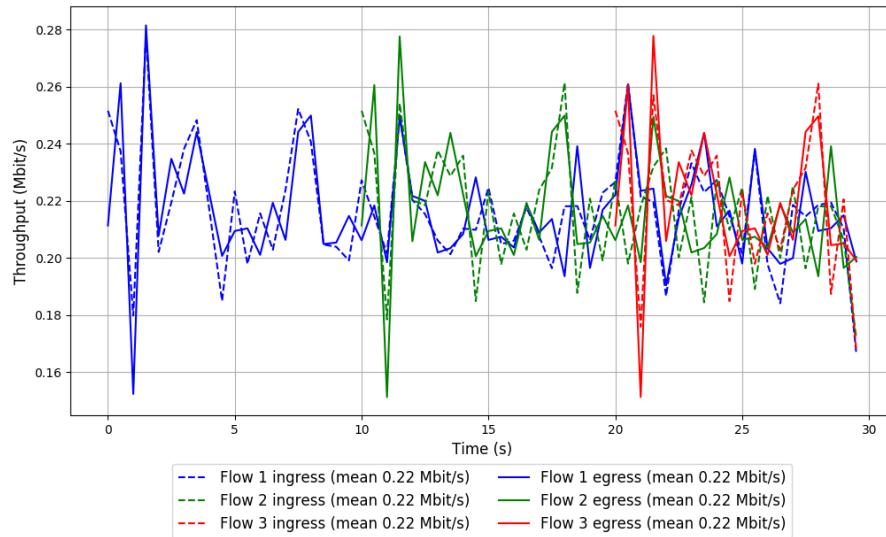


```
Run 1: Statistics of SCReAM

Start at: 2017-11-22 04:12:07
End at: 2017-11-22 04:12:37

# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.783 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.859 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.659 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.746 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link



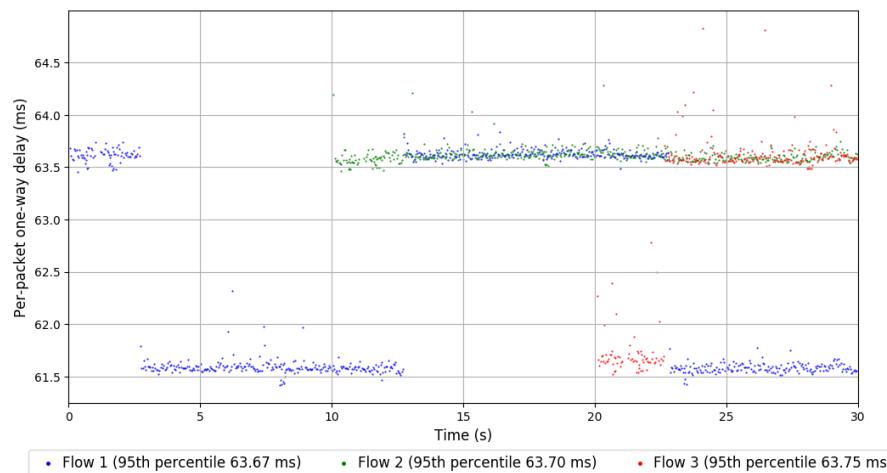
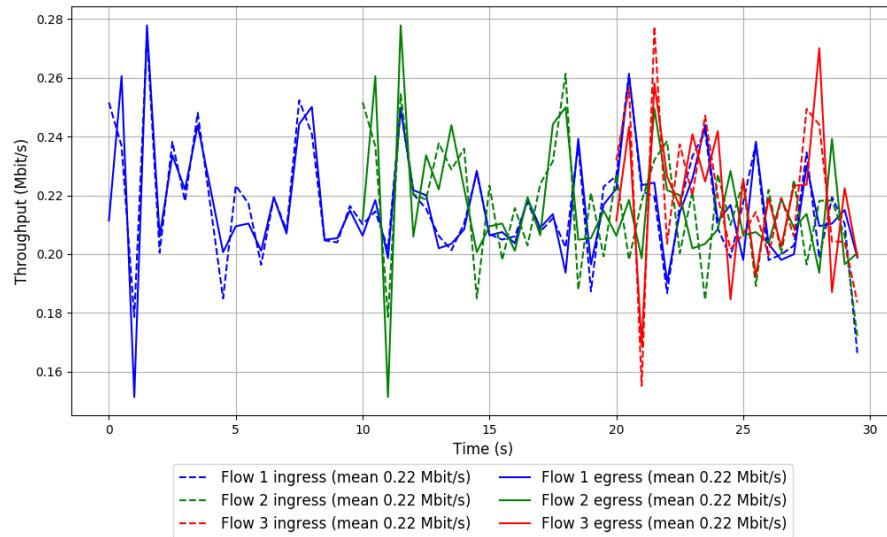
Run 2: Statistics of SCReAM

Start at: 2017-11-22 04:24:32

End at: 2017-11-22 04:25:02

```
# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.690 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.671 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.699 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.748 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link



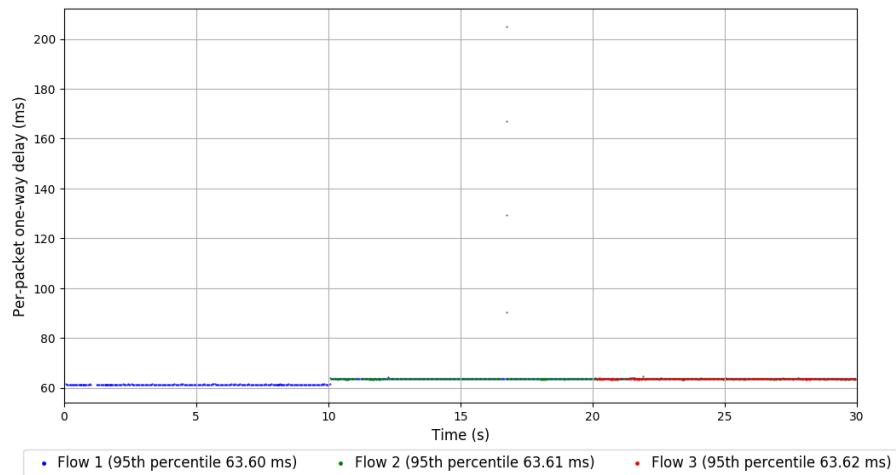
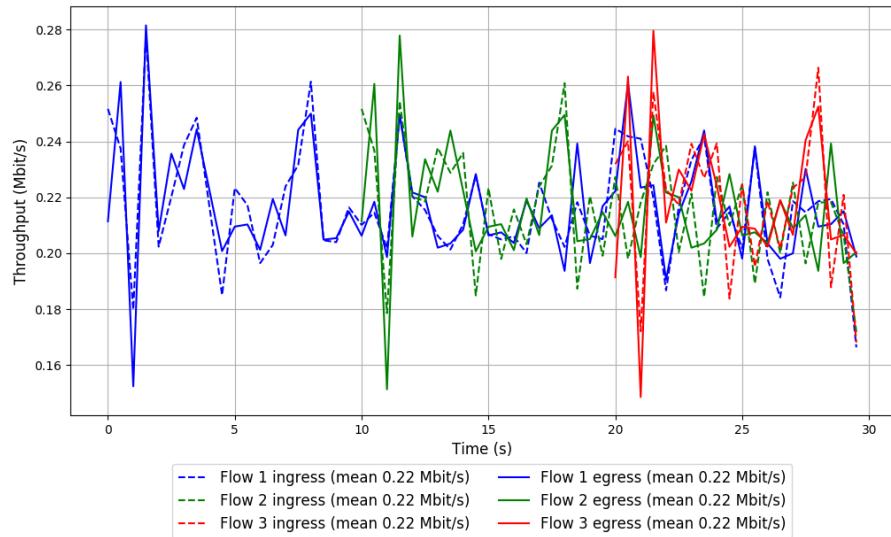
Run 3: Statistics of SCReAM

Start at: 2017-11-22 04:36:55

End at: 2017-11-22 04:37:25

```
# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.610 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.604 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.610 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.623 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link



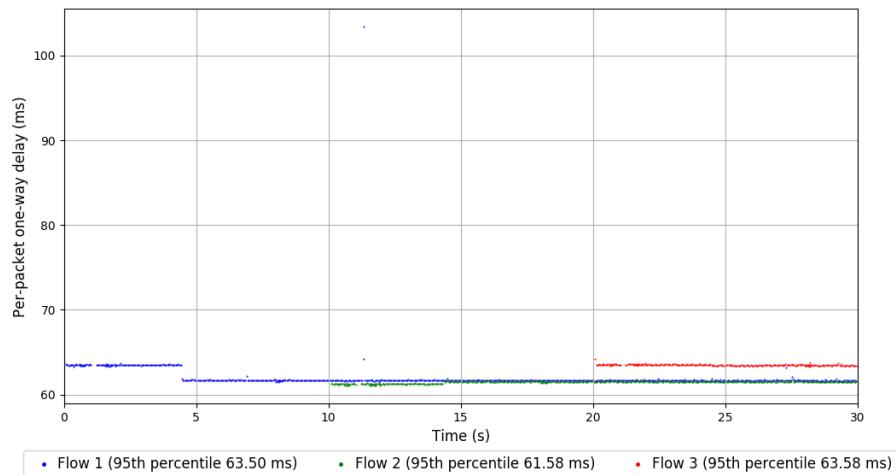
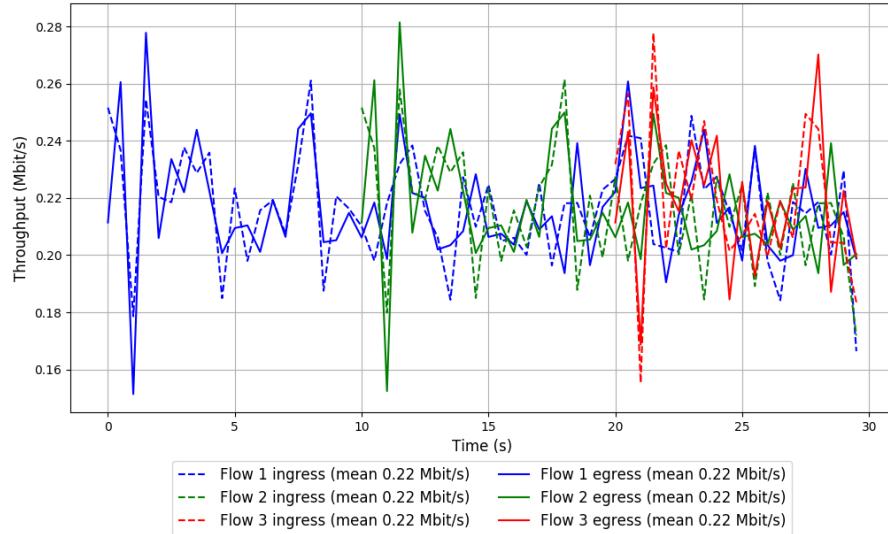
Run 4: Statistics of SCReAM

Start at: 2017-11-22 04:49:01

End at: 2017-11-22 04:49:31

```
# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.535 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.504 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.578 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.584 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link



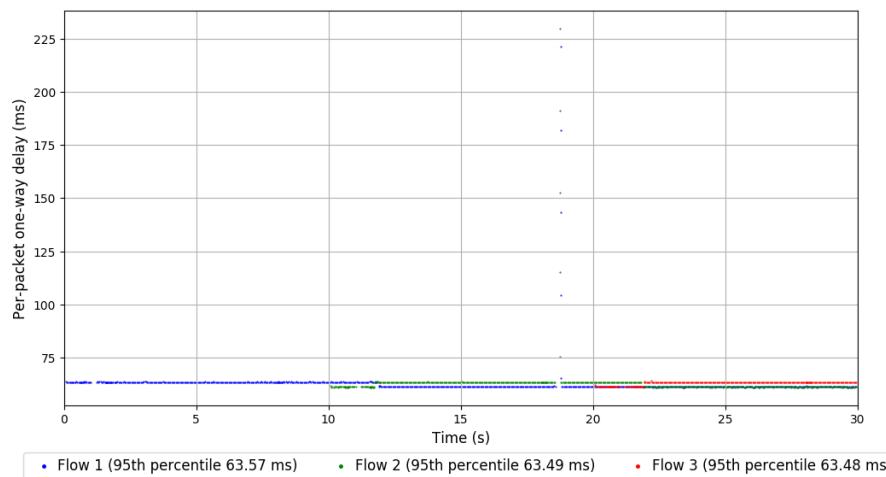
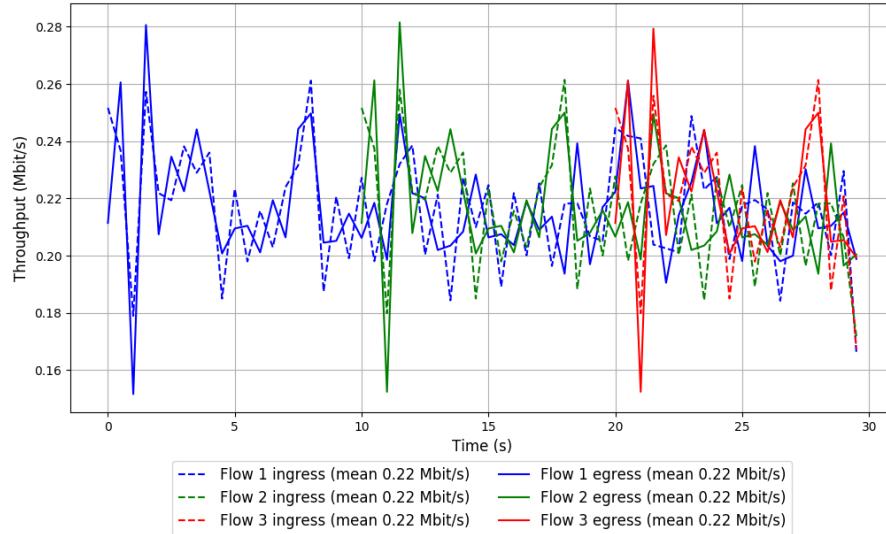
Run 5: Statistics of SCReAM

Start at: 2017-11-22 05:01:23

End at: 2017-11-22 05:01:53

```
# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.551 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.573 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.487 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.478 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link



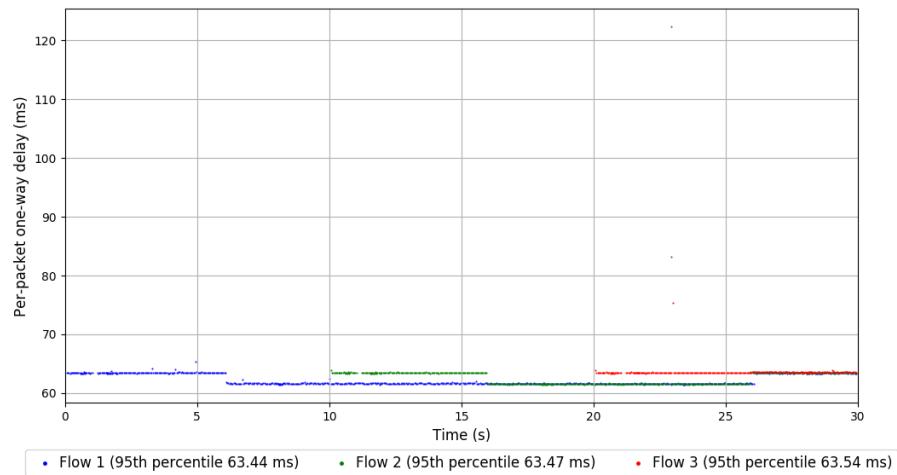
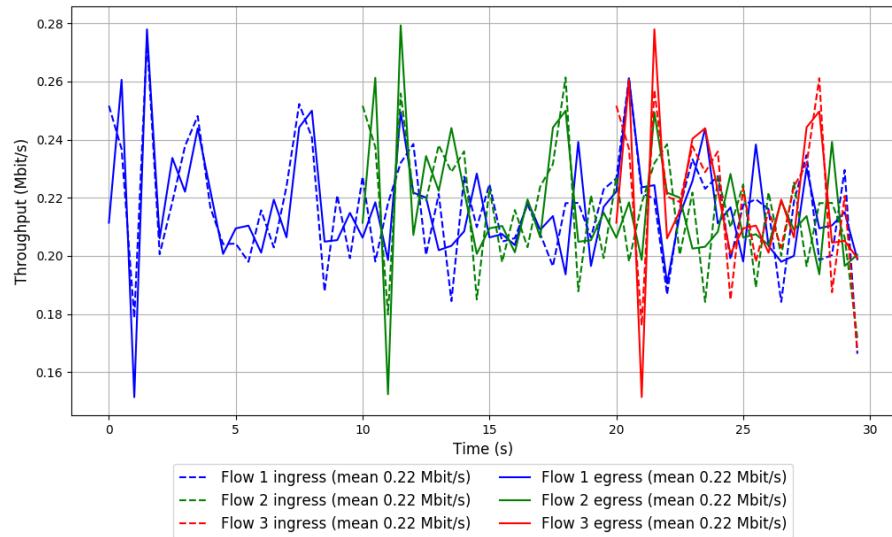
Run 6: Statistics of SCReAM

Start at: 2017-11-22 05:13:49

End at: 2017-11-22 05:14:19

```
# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.503 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.438 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.468 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.542 ms
Loss rate: 0.00%
```

Run 6: Report of SCReAM — Data Link



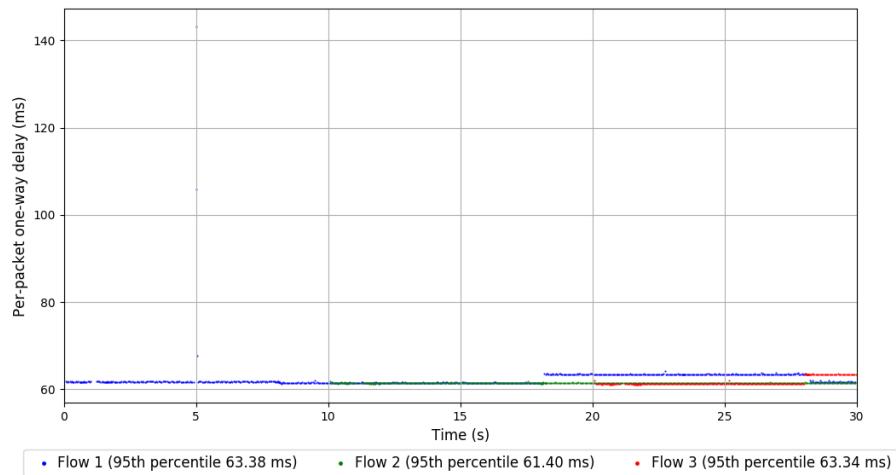
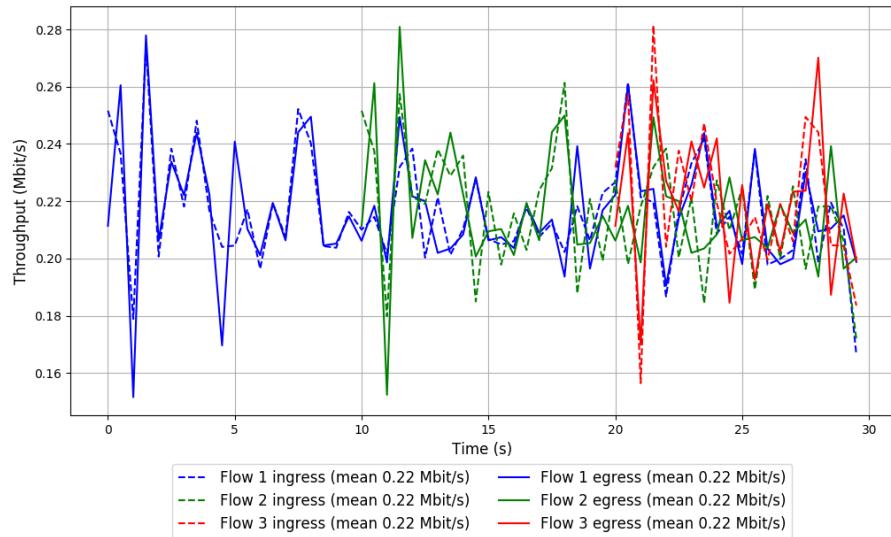
Run 7: Statistics of SCReAM

Start at: 2017-11-22 05:26:07

End at: 2017-11-22 05:26:37

```
# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.365 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.383 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.398 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.344 ms
Loss rate: 0.00%
```

Run 7: Report of SCReAM — Data Link



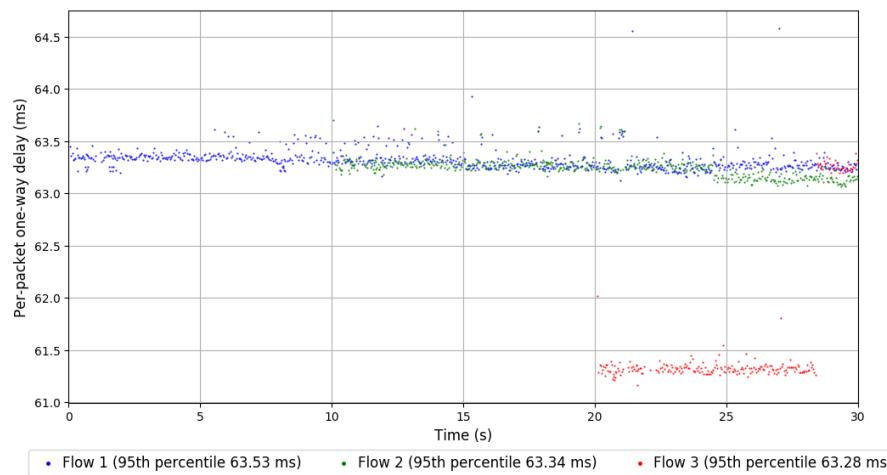
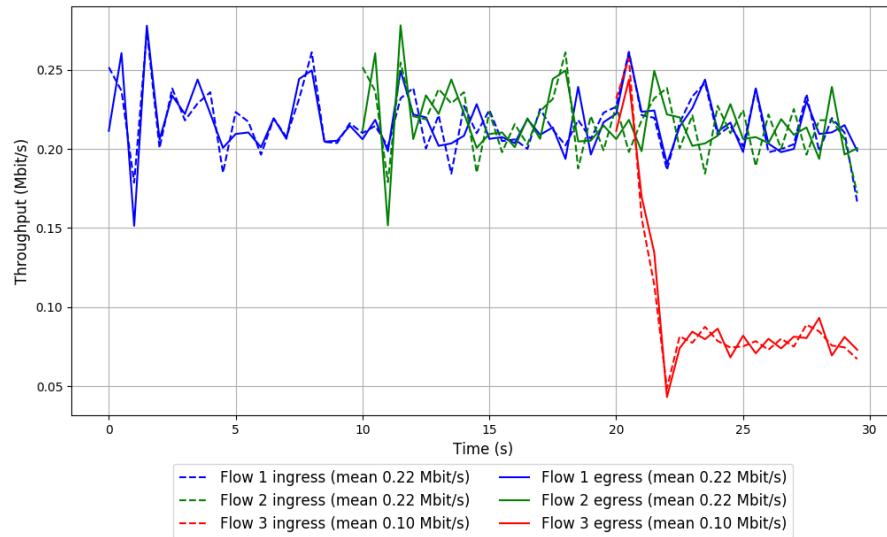
Run 8: Statistics of SCReAM

Start at: 2017-11-22 05:38:21

End at: 2017-11-22 05:38:51

```
# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 63.462 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.533 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.343 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 63.283 ms
Loss rate: 0.00%
```

Run 8: Report of SCReAM — Data Link



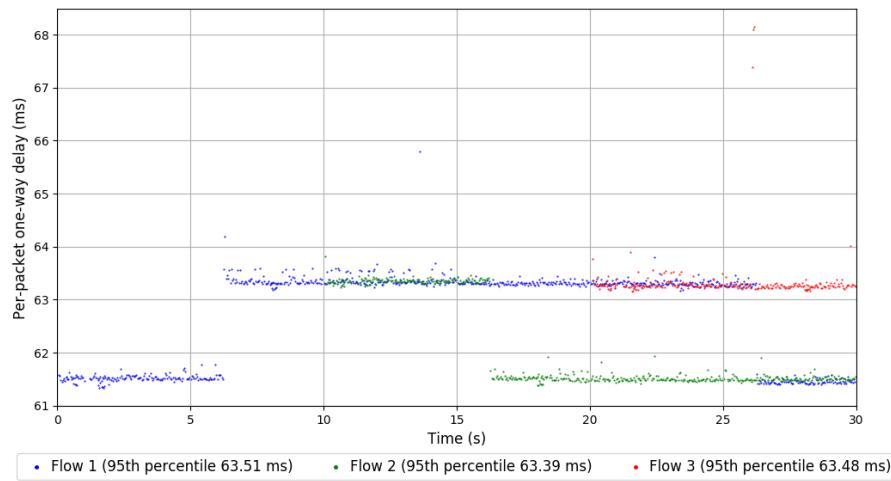
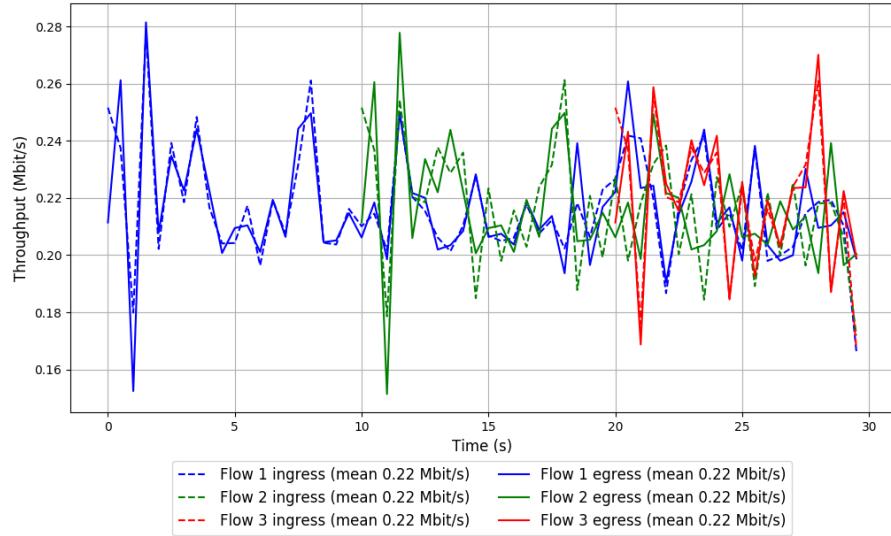
Run 9: Statistics of SCReAM

Start at: 2017-11-22 05:50:29

End at: 2017-11-22 05:50:59

```
# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.430 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.508 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.388 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.483 ms
Loss rate: 0.00%
```

Run 9: Report of SCReAM — Data Link



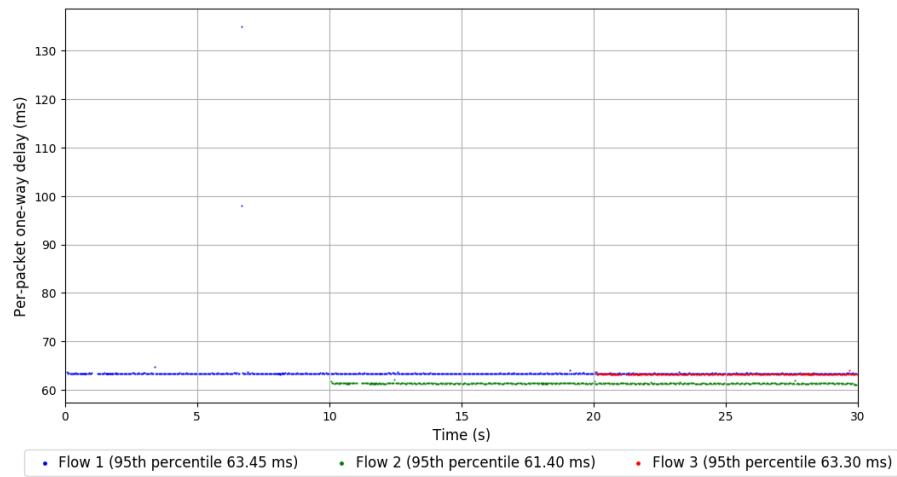
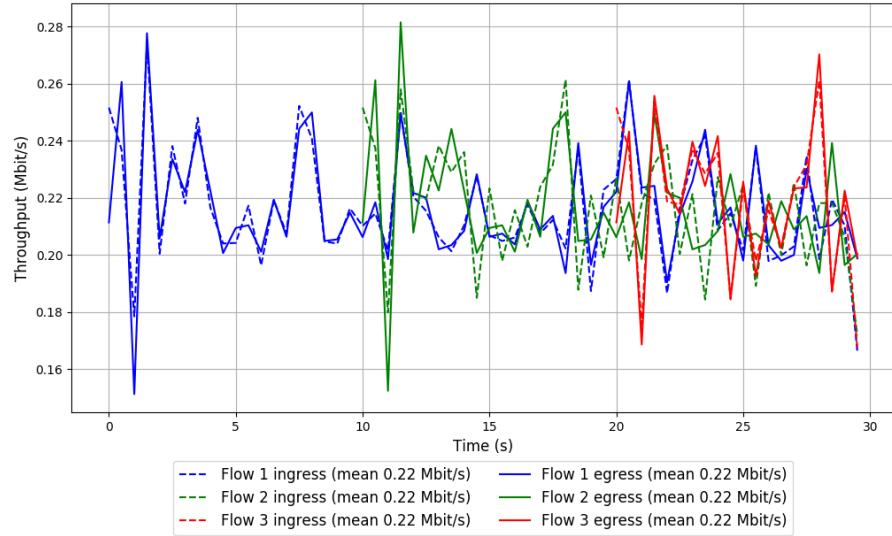
Run 10: Statistics of SCReAM

Start at: 2017-11-22 06:02:35

End at: 2017-11-22 06:03:05

```
# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.422 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.451 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.403 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.302 ms
Loss rate: 0.00%
```

Run 10: Report of SCReAM — Data Link

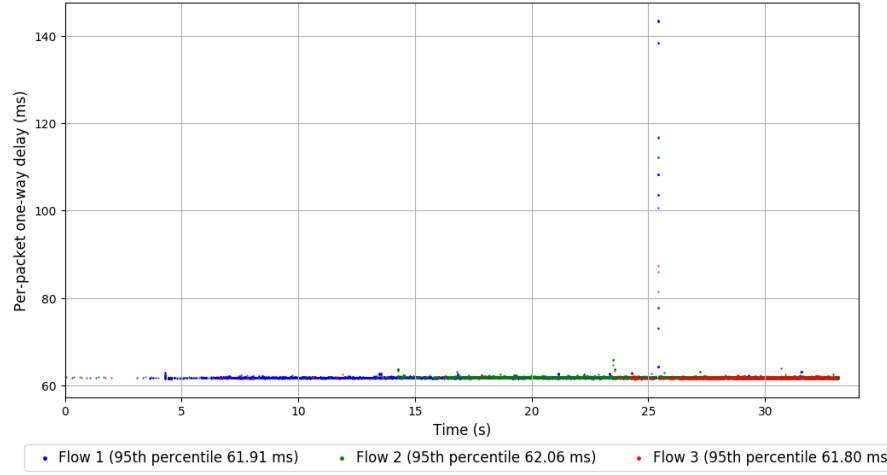
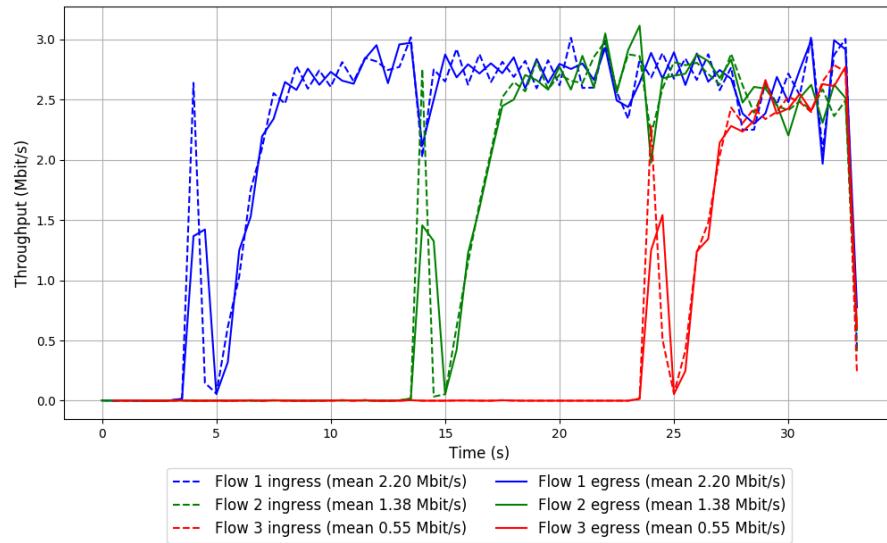


```
Run 1: Statistics of WebRTC media

Start at: 2017-11-22 04:09:50
End at: 2017-11-22 04:10:20

# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 61.989 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 61.913 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.38 Mbit/s
95th percentile per-packet one-way delay: 62.059 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 61.801 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



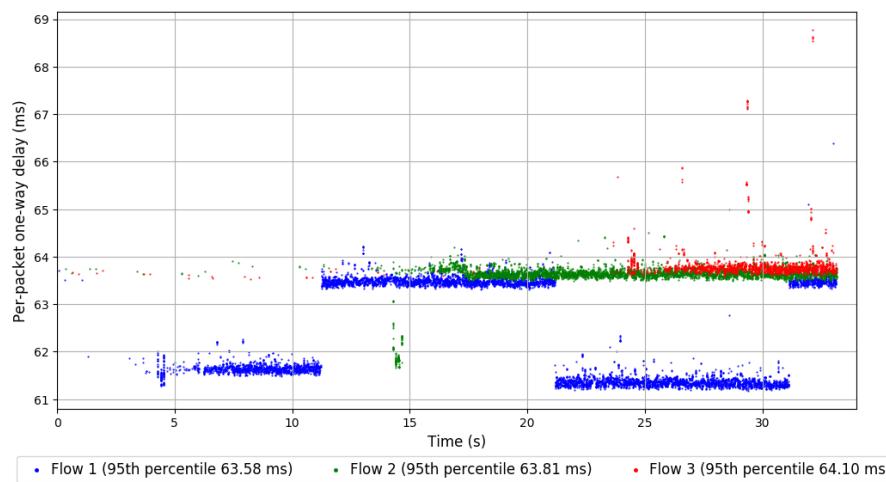
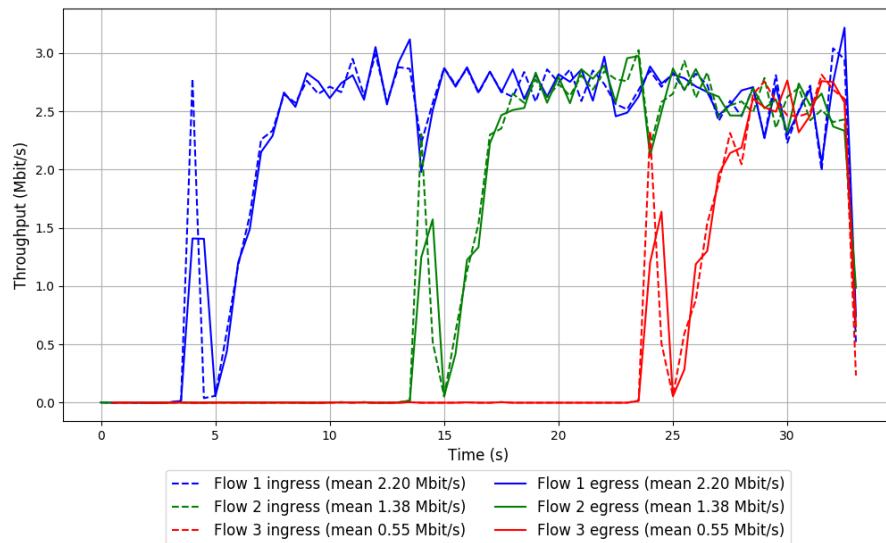
Run 2: Statistics of WebRTC media

Start at: 2017-11-22 04:22:11

End at: 2017-11-22 04:22:41

```
# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 63.820 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 63.582 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.38 Mbit/s
95th percentile per-packet one-way delay: 63.809 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 64.099 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

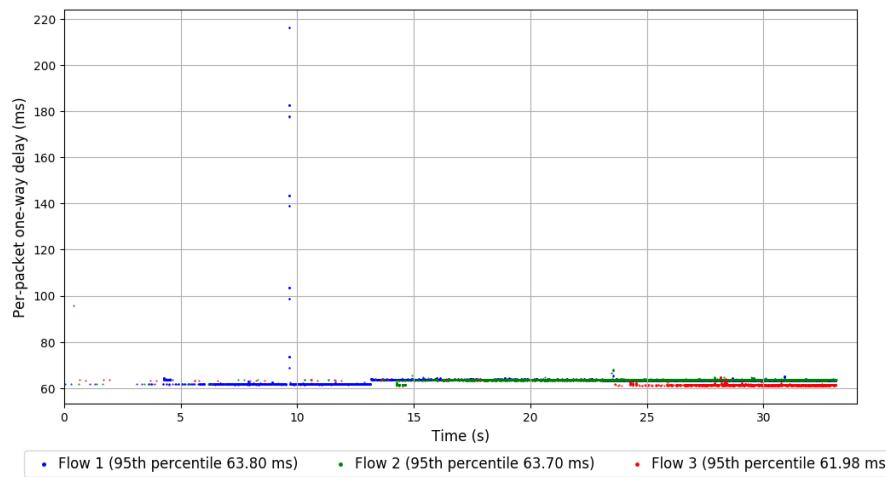
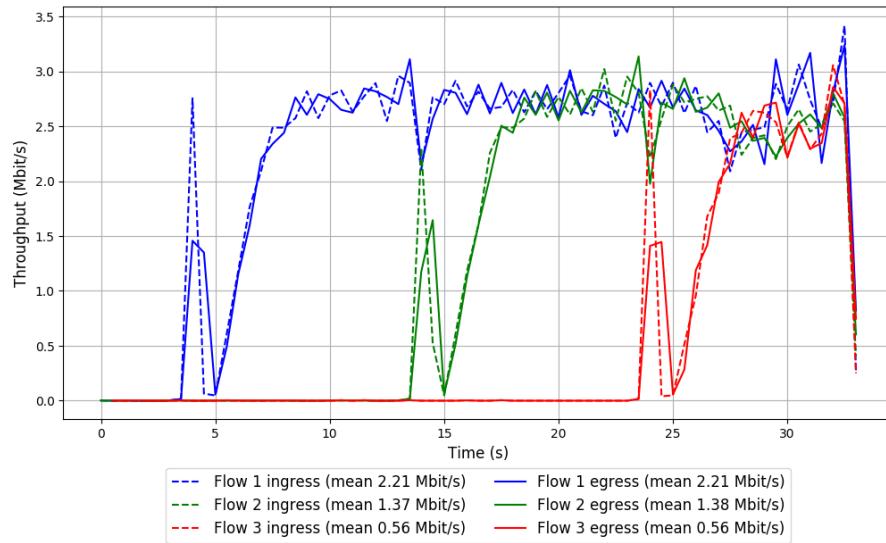


```
Run 3: Statistics of WebRTC media

Start at: 2017-11-22 04:34:35
End at: 2017-11-22 04:35:05

# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.12 Mbit/s
95th percentile per-packet one-way delay: 63.748 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 63.800 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.38 Mbit/s
95th percentile per-packet one-way delay: 63.696 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 61.977 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

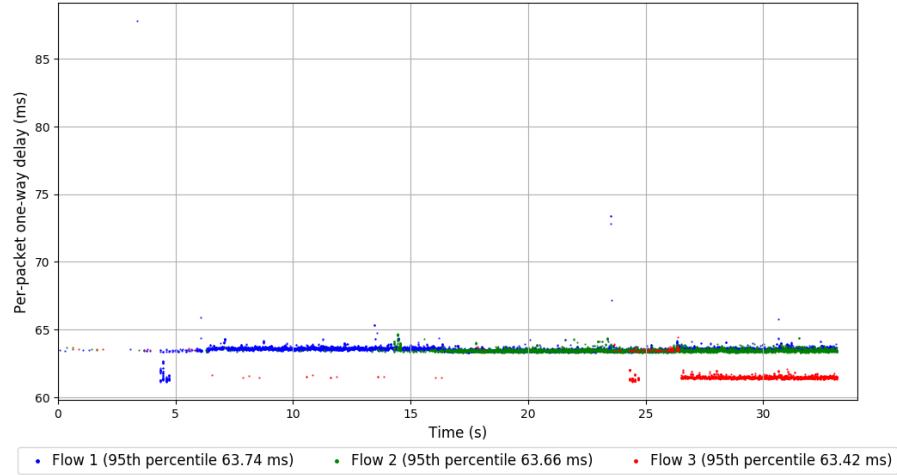
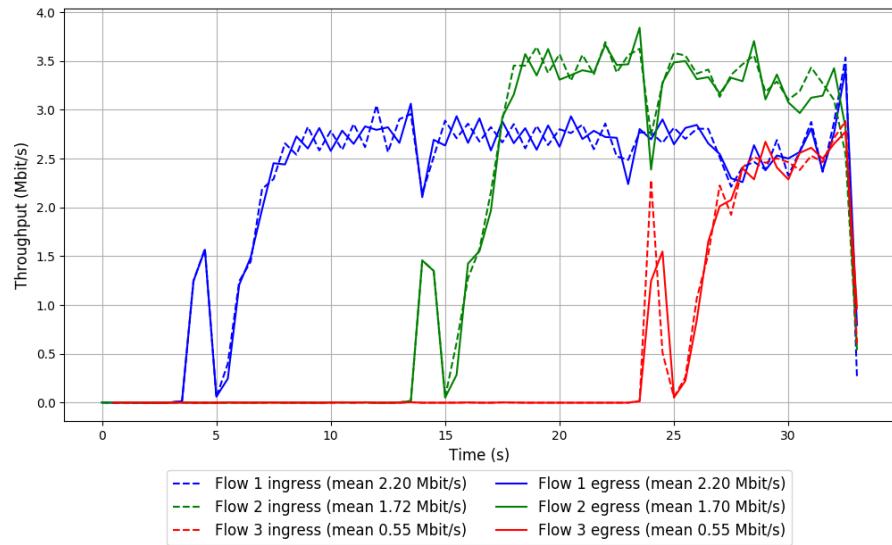


```
Run 4: Statistics of WebRTC media

Start at: 2017-11-22 04:46:42
End at: 2017-11-22 04:47:12

# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.42 Mbit/s
95th percentile per-packet one-way delay: 63.710 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 63.741 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.70 Mbit/s
95th percentile per-packet one-way delay: 63.656 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 63.422 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link

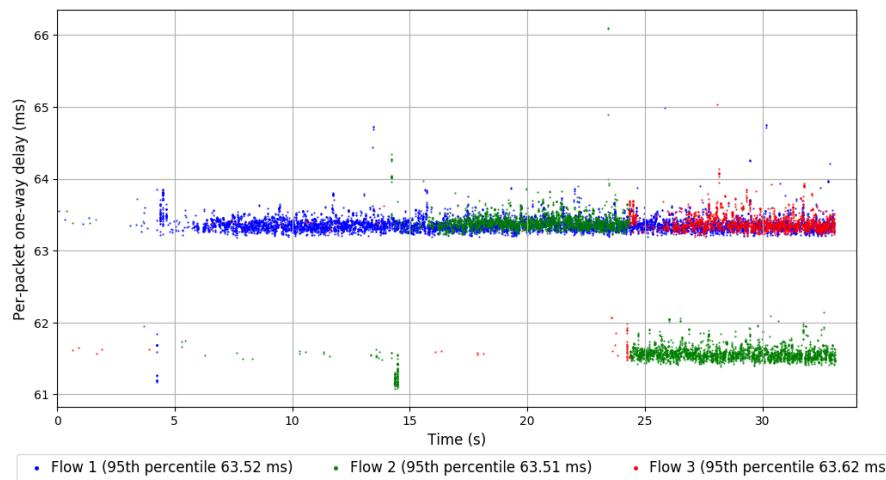
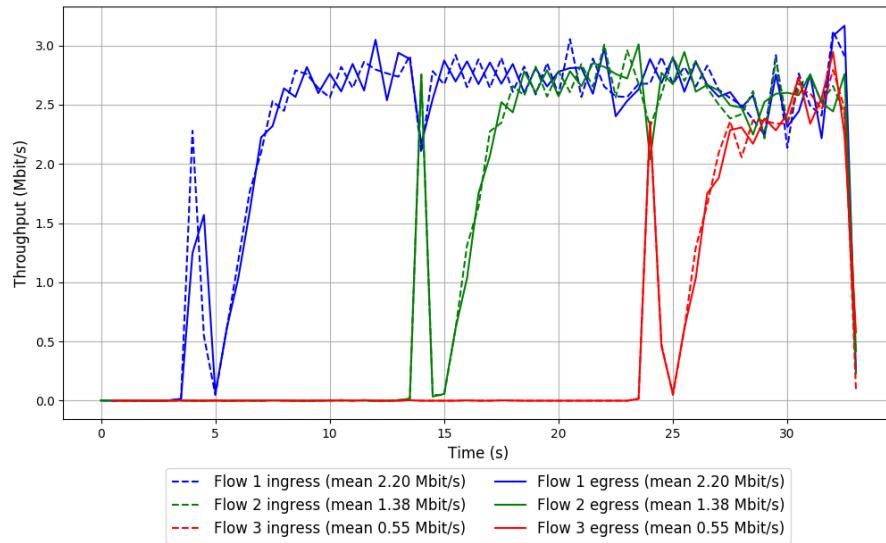


```
Run 5: Statistics of WebRTC media

Start at: 2017-11-22 04:59:04
End at: 2017-11-22 04:59:34

# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 63.537 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 63.523 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.38 Mbit/s
95th percentile per-packet one-way delay: 63.512 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 63.624 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link



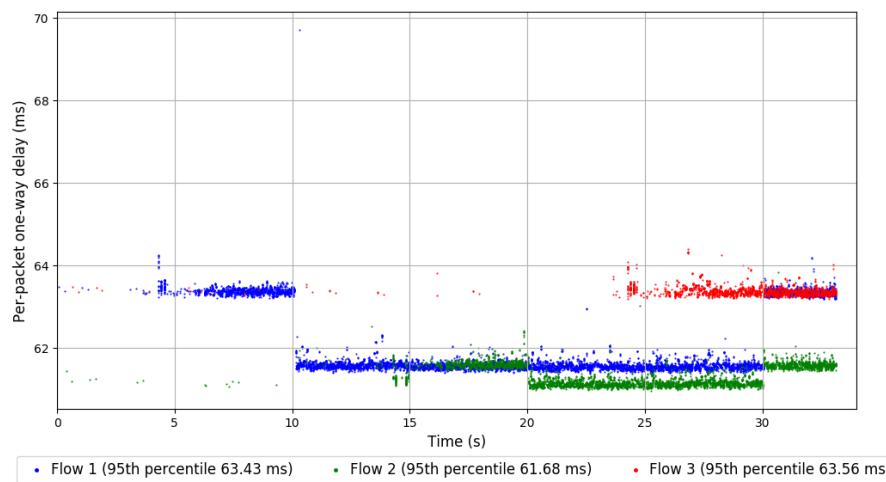
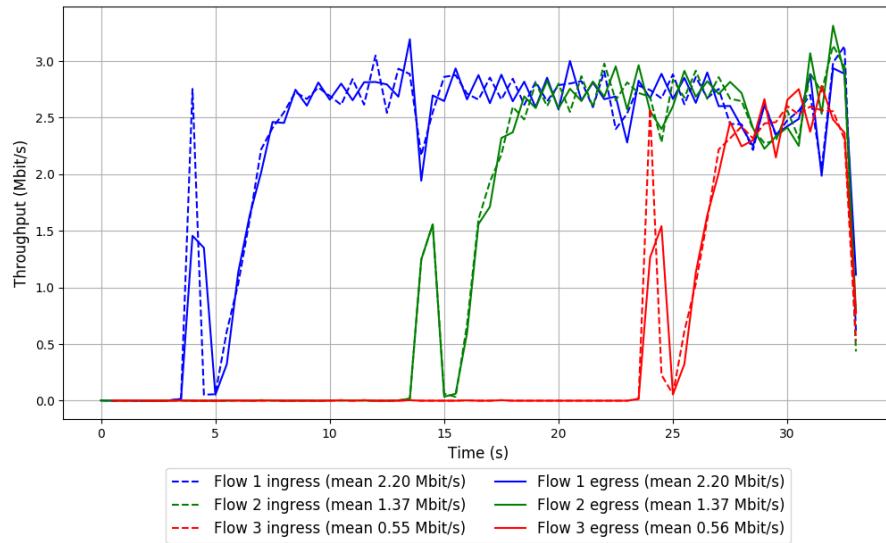
Run 6: Statistics of WebRTC media

Start at: 2017-11-22 05:11:28

End at: 2017-11-22 05:11:58

```
# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.10 Mbit/s
95th percentile per-packet one-way delay: 63.437 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 63.428 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.37 Mbit/s
95th percentile per-packet one-way delay: 61.678 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 63.556 ms
Loss rate: 0.00%
```

Run 6: Report of WebRTC media — Data Link

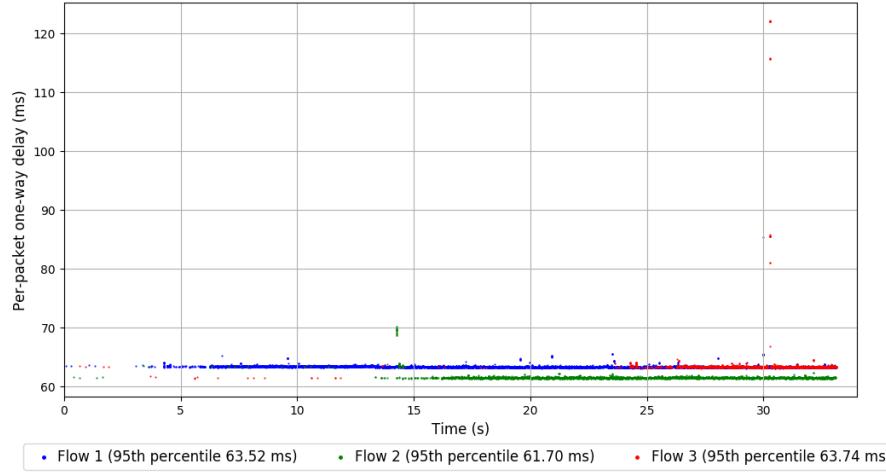
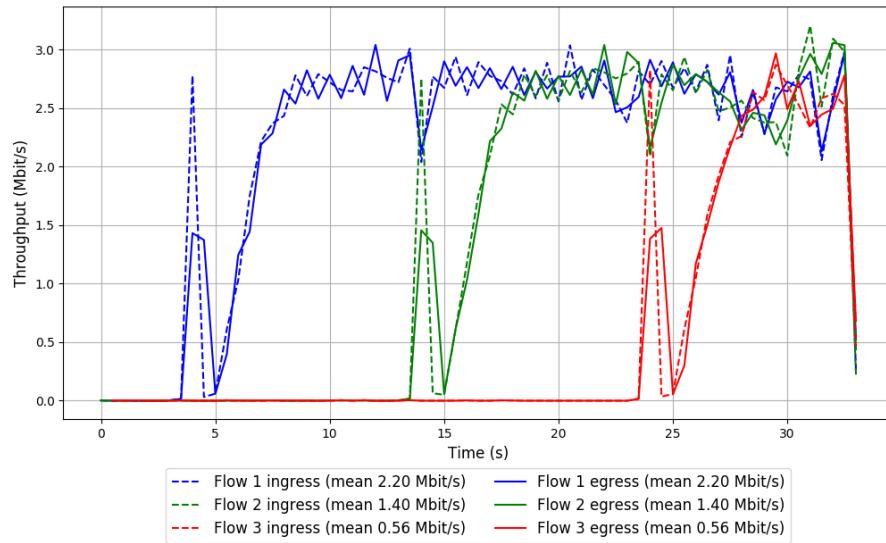


```
Run 7: Statistics of WebRTC media

Start at: 2017-11-22 05:23:45
End at: 2017-11-22 05:24:15

# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.13 Mbit/s
95th percentile per-packet one-way delay: 63.498 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 63.518 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.40 Mbit/s
95th percentile per-packet one-way delay: 61.705 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 63.740 ms
Loss rate: 0.00%
```

Run 7: Report of WebRTC media — Data Link



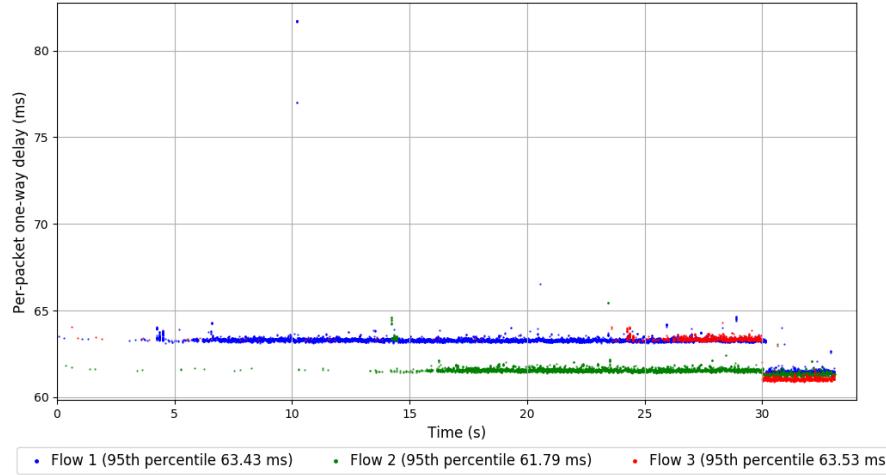
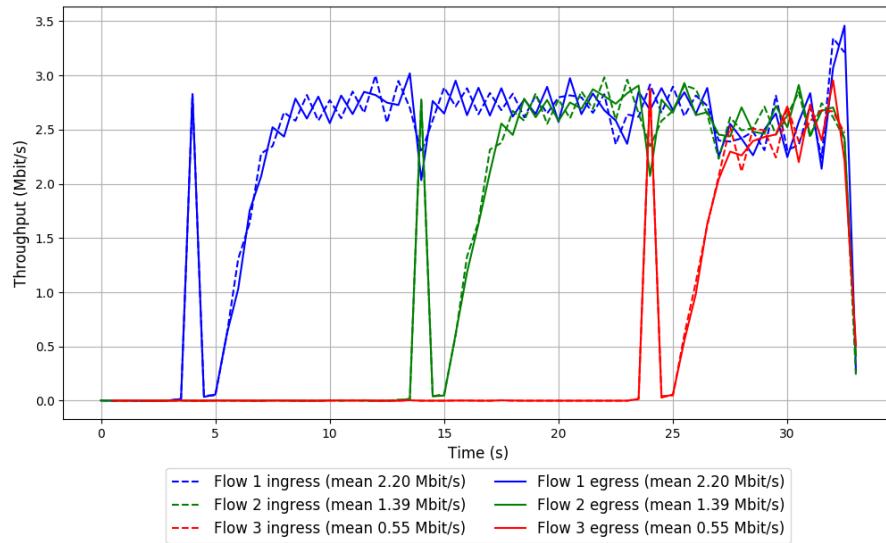
Run 8: Statistics of WebRTC media

Start at: 2017-11-22 05:35:58

End at: 2017-11-22 05:36:28

```
# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.12 Mbit/s
95th percentile per-packet one-way delay: 63.422 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 63.430 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.39 Mbit/s
95th percentile per-packet one-way delay: 61.788 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 63.527 ms
Loss rate: 0.00%
```

Run 8: Report of WebRTC media — Data Link

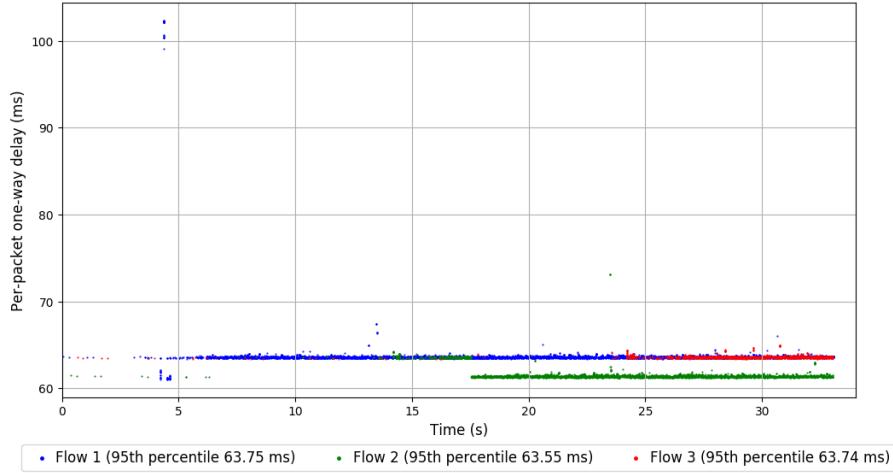
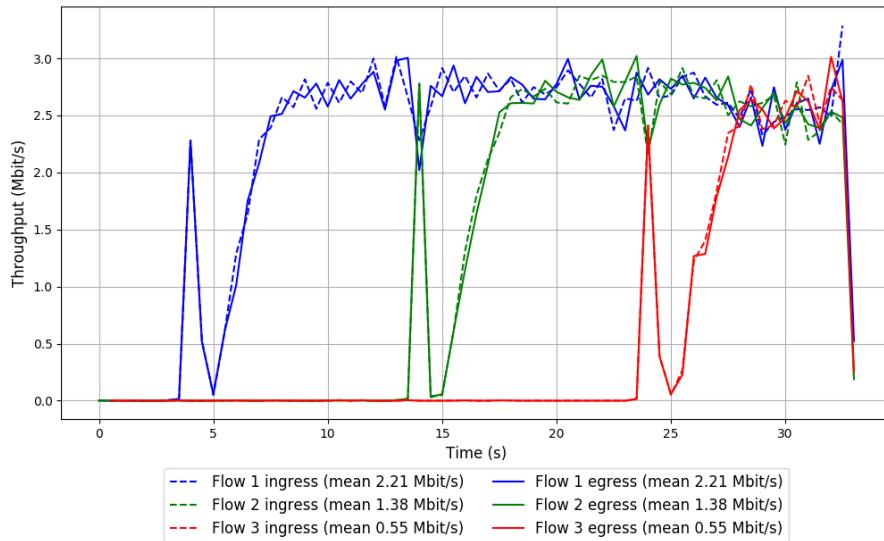


```
Run 9: Statistics of WebRTC media

Start at: 2017-11-22 05:48:11
End at: 2017-11-22 05:48:41

# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.12 Mbit/s
95th percentile per-packet one-way delay: 63.711 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 63.749 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.38 Mbit/s
95th percentile per-packet one-way delay: 63.553 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 63.738 ms
Loss rate: 0.07%
```

Run 9: Report of WebRTC media — Data Link



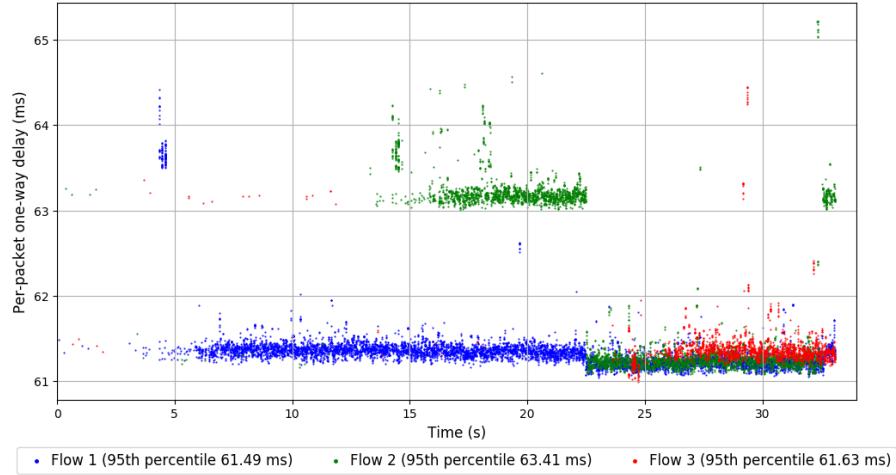
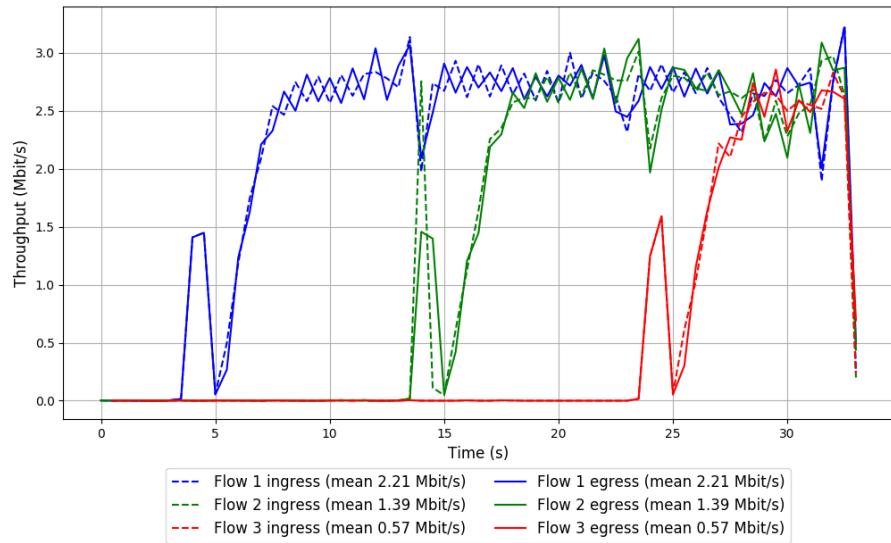
Run 10: Statistics of WebRTC media

Start at: 2017-11-22 06:00:16

End at: 2017-11-22 06:00:46

```
# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.14 Mbit/s
95th percentile per-packet one-way delay: 63.227 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 61.490 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.39 Mbit/s
95th percentile per-packet one-way delay: 63.411 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 61.633 ms
Loss rate: 0.00%
```

Run 10: Report of WebRTC media — Data Link



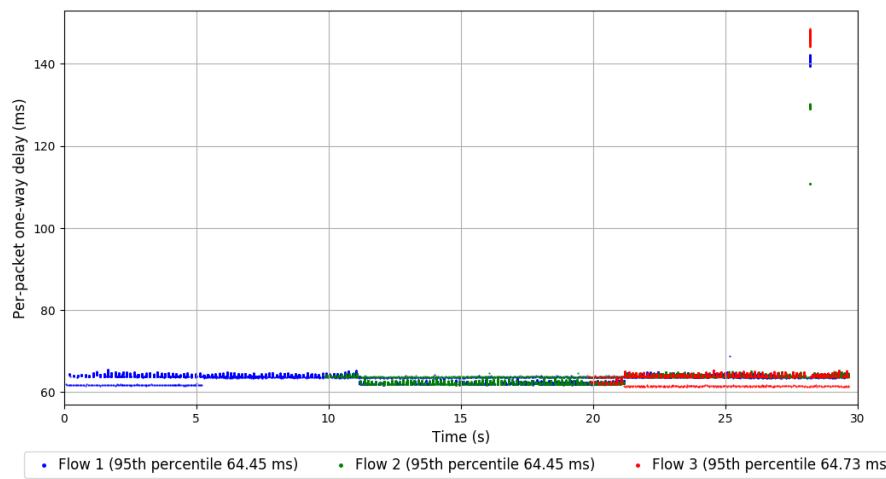
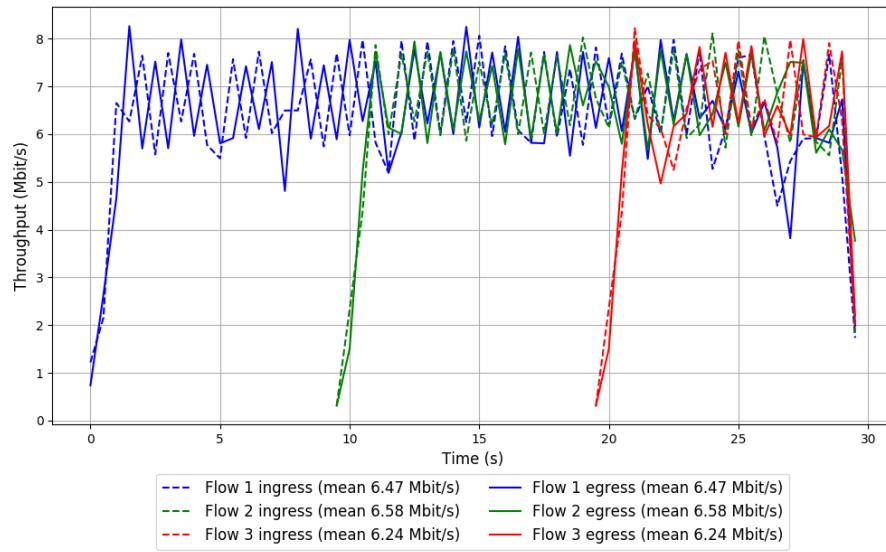
Run 1: Statistics of Sprout

Start at: 2017-11-22 04:18:43

End at: 2017-11-22 04:19:13

```
# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.96 Mbit/s
95th percentile per-packet one-way delay: 64.515 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.47 Mbit/s
95th percentile per-packet one-way delay: 64.454 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 6.58 Mbit/s
95th percentile per-packet one-way delay: 64.450 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.24 Mbit/s
95th percentile per-packet one-way delay: 64.732 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



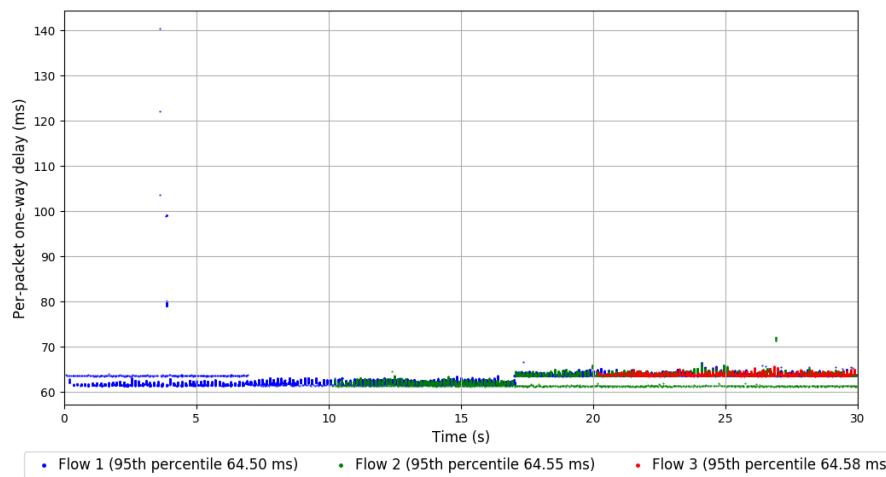
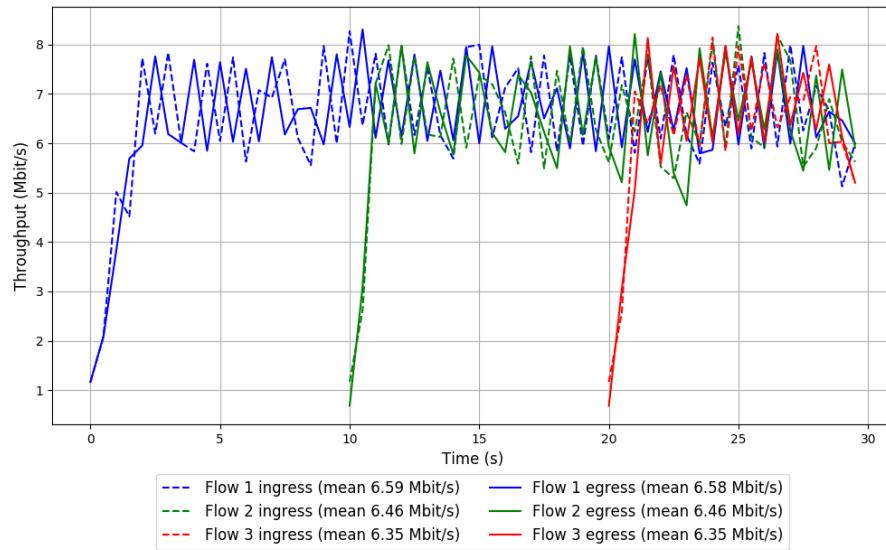
Run 2: Statistics of Sprout

Start at: 2017-11-22 04:31:08

End at: 2017-11-22 04:31:38

```
# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.97 Mbit/s
95th percentile per-packet one-way delay: 64.538 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 6.58 Mbit/s
95th percentile per-packet one-way delay: 64.498 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 6.46 Mbit/s
95th percentile per-packet one-way delay: 64.549 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.35 Mbit/s
95th percentile per-packet one-way delay: 64.579 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

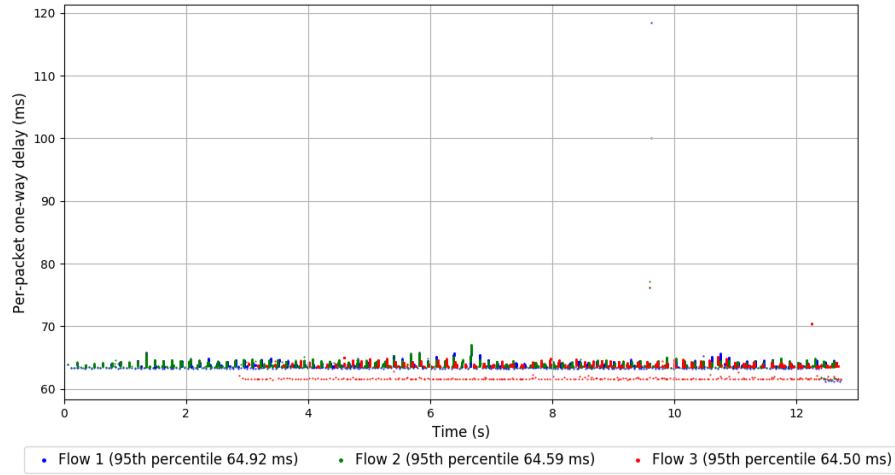
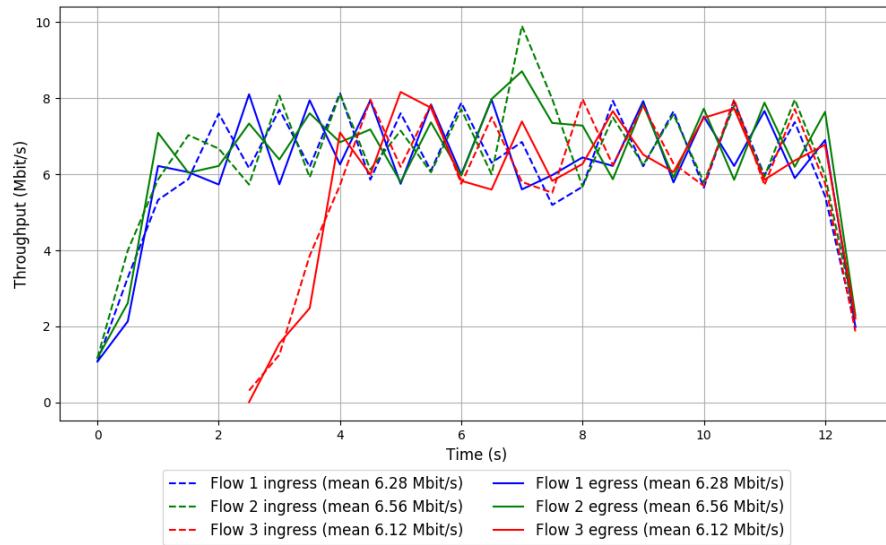


Run 3: Statistics of Sprout

Start at: 2017-11-22 04:43:15

End at: 2017-11-22 04:43:45

Run 3: Report of Sprout — Data Link



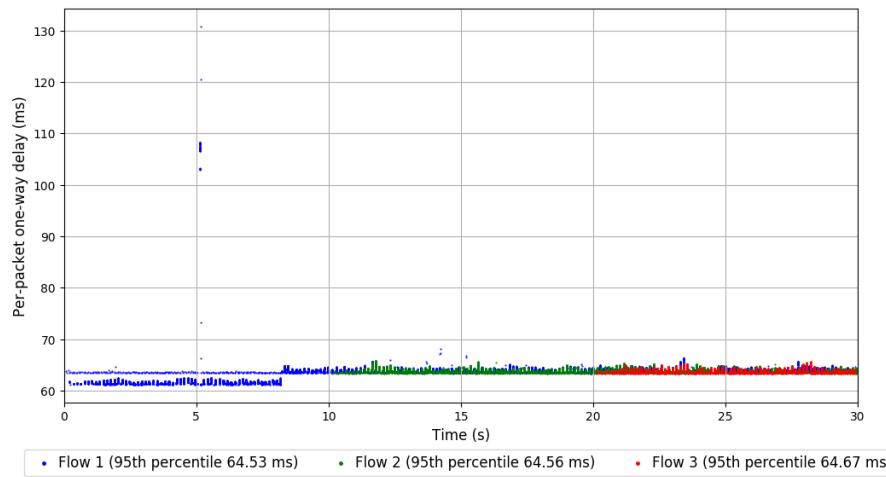
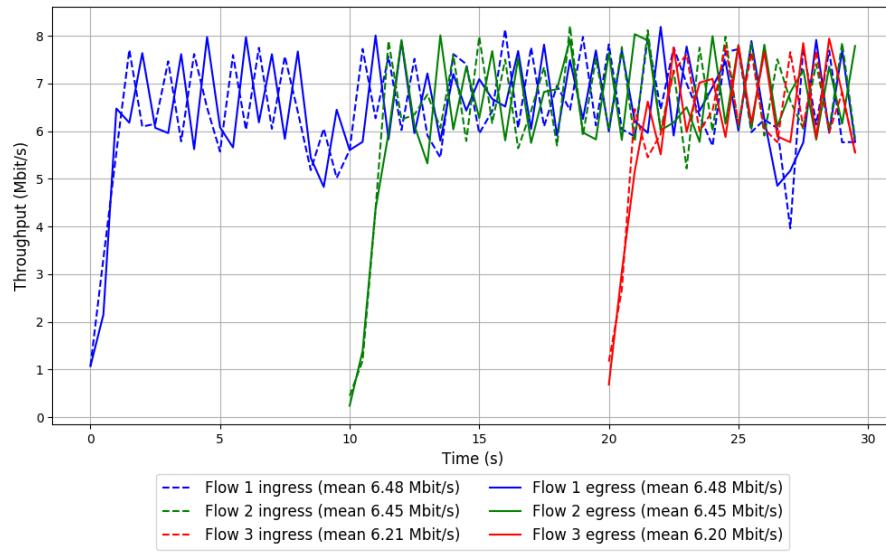
Run 4: Statistics of Sprout

Start at: 2017-11-22 04:55:37

End at: 2017-11-22 04:56:07

```
# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.81 Mbit/s
95th percentile per-packet one-way delay: 64.558 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 6.48 Mbit/s
95th percentile per-packet one-way delay: 64.533 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 6.45 Mbit/s
95th percentile per-packet one-way delay: 64.564 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 6.20 Mbit/s
95th percentile per-packet one-way delay: 64.671 ms
Loss rate: 0.10%
```

Run 4: Report of Sprout — Data Link

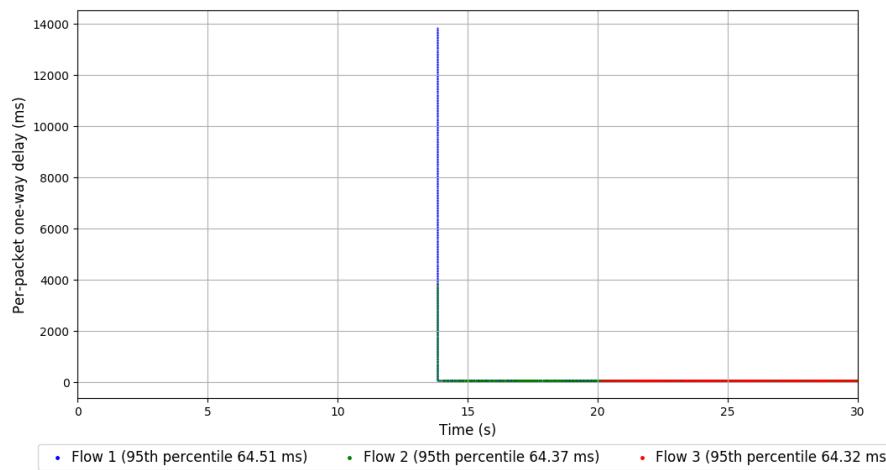
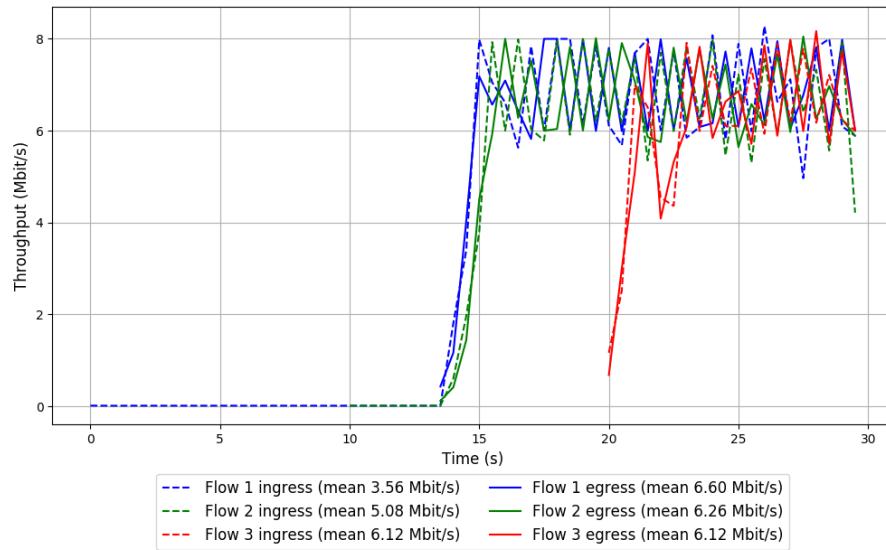


Run 5: Statistics of Sprout

Start at: 2017-11-22 05:08:02

End at: 2017-11-22 05:08:32

Run 5: Report of Sprout — Data Link



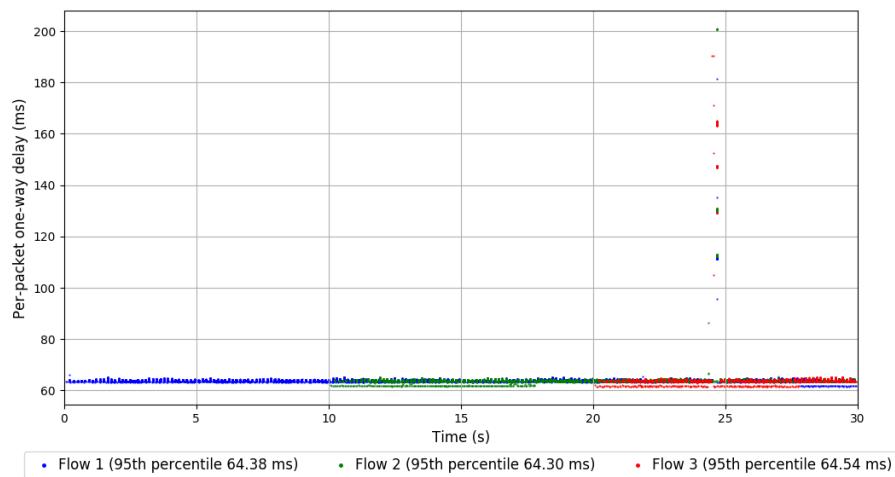
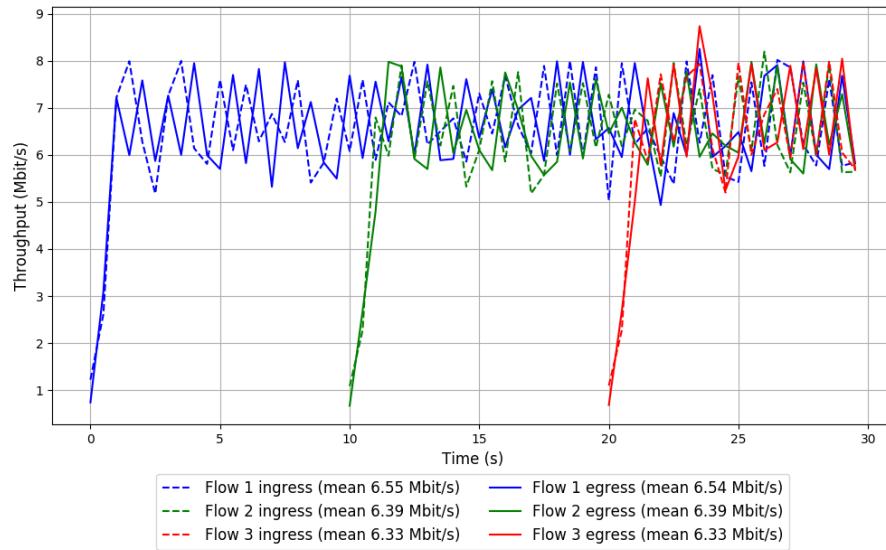
Run 6: Statistics of Sprout

Start at: 2017-11-22 05:20:17

End at: 2017-11-22 05:20:47

```
# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.88 Mbit/s
95th percentile per-packet one-way delay: 64.381 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 6.54 Mbit/s
95th percentile per-packet one-way delay: 64.379 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 6.39 Mbit/s
95th percentile per-packet one-way delay: 64.304 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 6.33 Mbit/s
95th percentile per-packet one-way delay: 64.537 ms
Loss rate: 0.00%
```

Run 6: Report of Sprout — Data Link

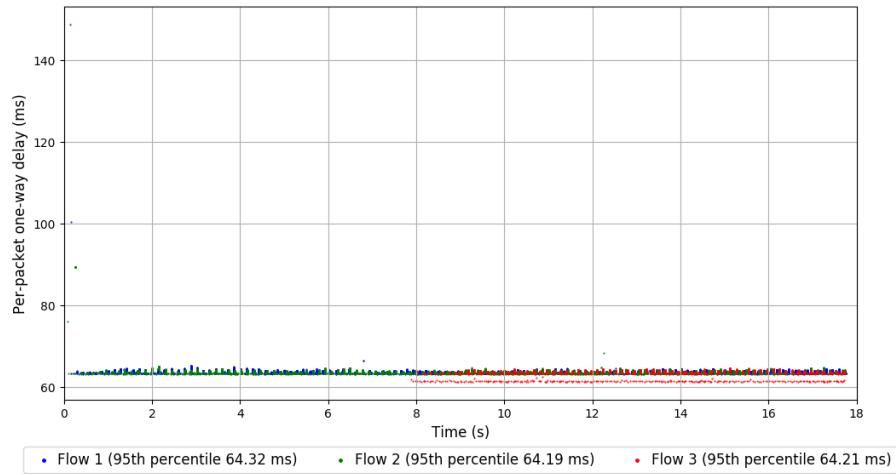
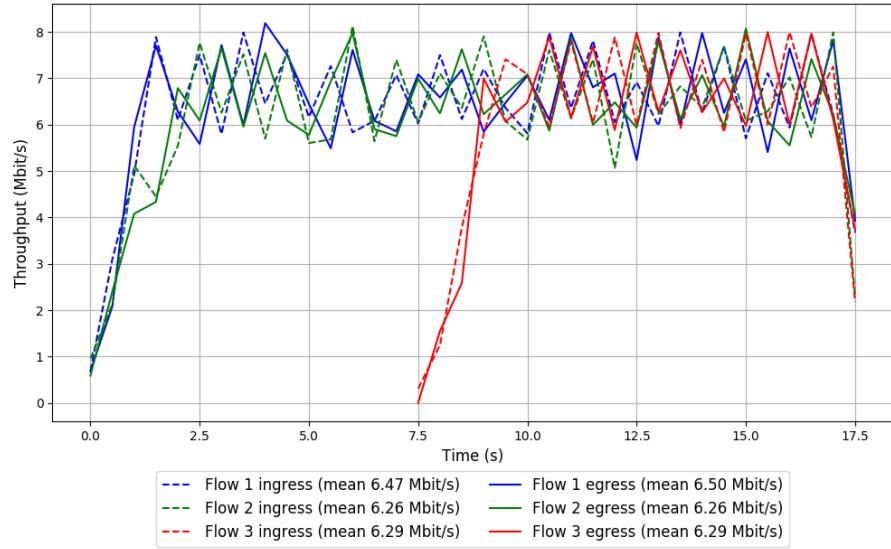


Run 7: Statistics of Sprout

Start at: 2017-11-22 05:32:29

End at: 2017-11-22 05:33:00

Run 7: Report of Sprout — Data Link



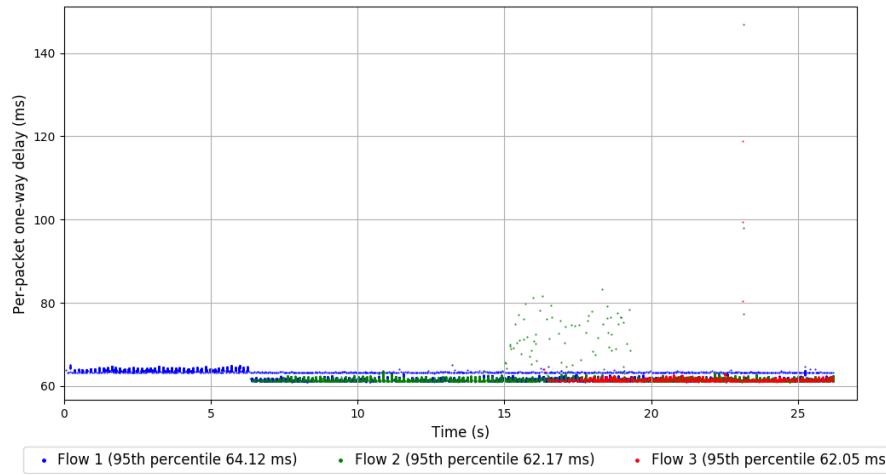
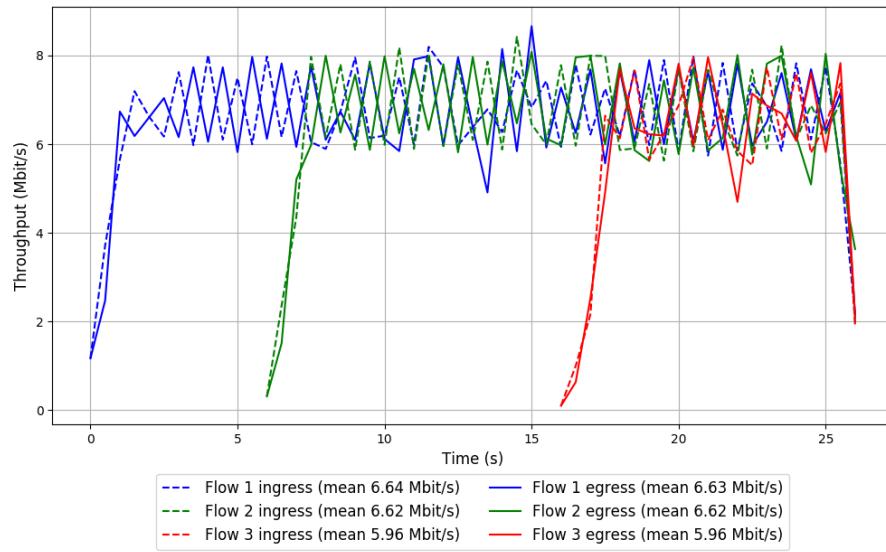
Run 8: Statistics of Sprout

Start at: 2017-11-22 05:44:45

End at: 2017-11-22 05:45:15

```
# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.91 Mbit/s
95th percentile per-packet one-way delay: 63.903 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 6.63 Mbit/s
95th percentile per-packet one-way delay: 64.123 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 6.62 Mbit/s
95th percentile per-packet one-way delay: 62.172 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 5.96 Mbit/s
95th percentile per-packet one-way delay: 62.047 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link

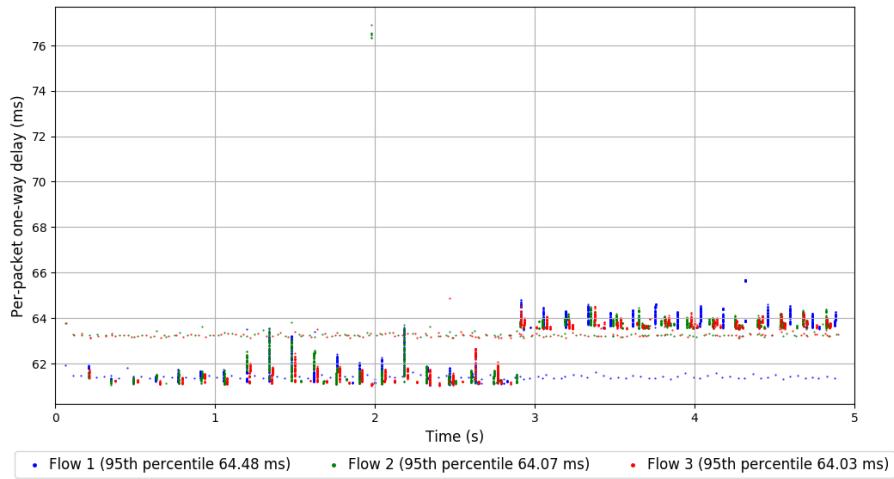
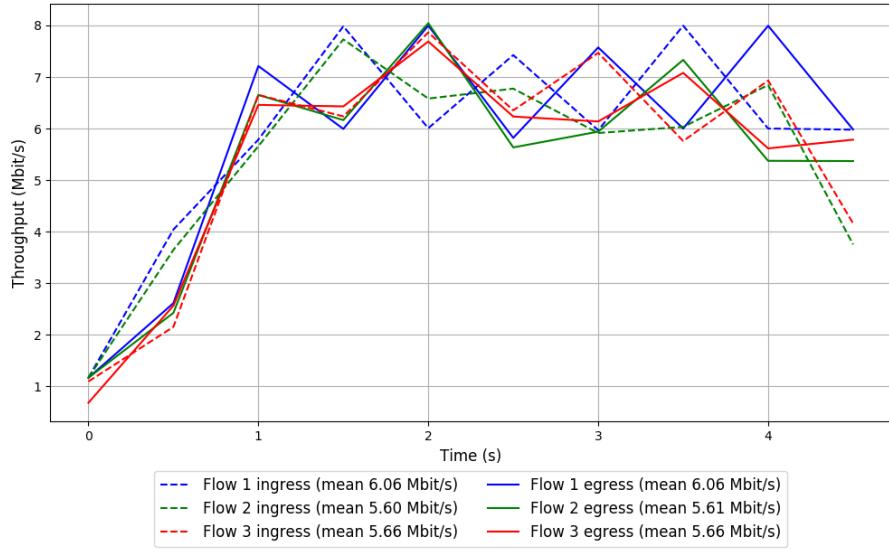


Run 9: Statistics of Sprout

Start at: 2017-11-22 05:56:47

End at: 2017-11-22 05:57:17

Run 9: Report of Sprout — Data Link



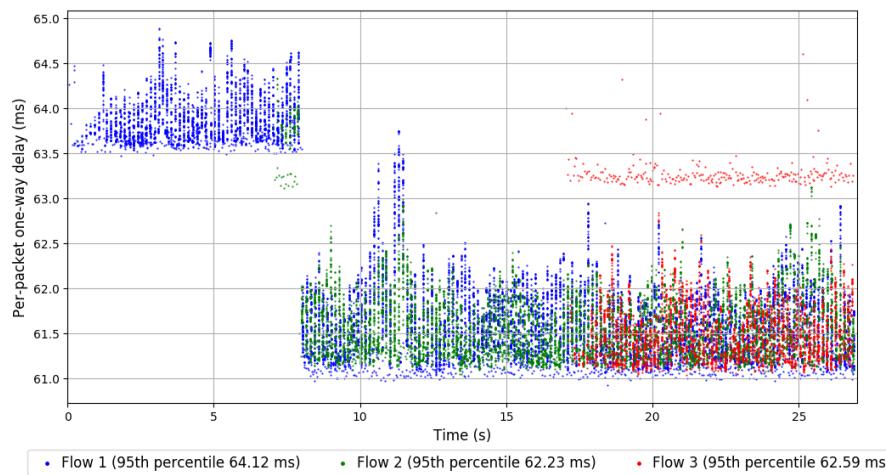
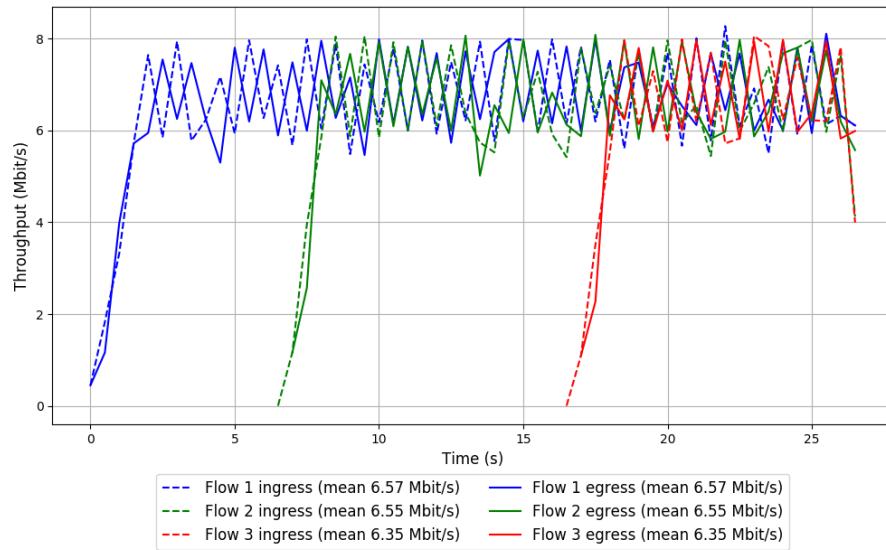
Run 10: Statistics of Sprout

Start at: 2017-11-22 06:09:04

End at: 2017-11-22 06:09:34

```
# Below is generated by plot.py at 2017-11-22 08:01:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.74 Mbit/s
95th percentile per-packet one-way delay: 63.924 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.57 Mbit/s
95th percentile per-packet one-way delay: 64.121 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.55 Mbit/s
95th percentile per-packet one-way delay: 62.230 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 6.35 Mbit/s
95th percentile per-packet one-way delay: 62.591 ms
Loss rate: 0.00%
```

Run 10: Report of Sprout — Data Link



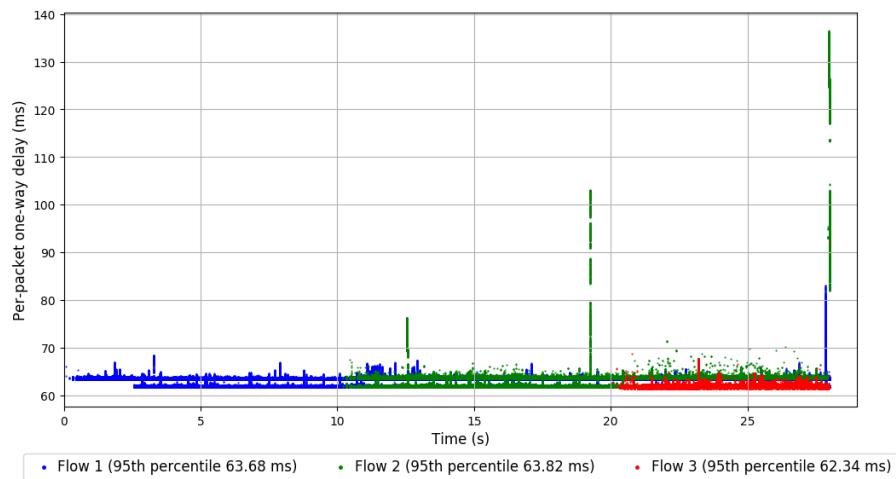
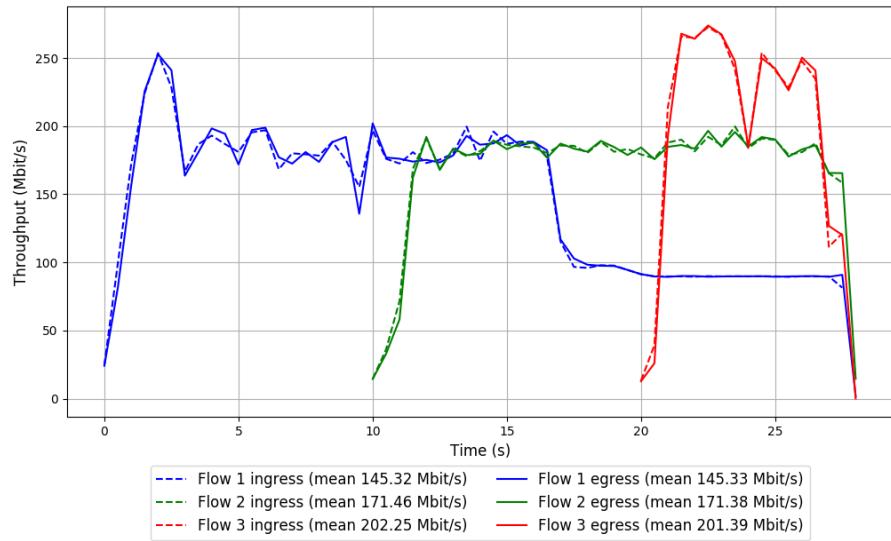
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-22 04:16:50

End at: 2017-11-22 04:17:20

```
# Below is generated by plot.py at 2017-11-22 08:05:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 312.39 Mbit/s
95th percentile per-packet one-way delay: 63.746 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 145.33 Mbit/s
95th percentile per-packet one-way delay: 63.683 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 171.38 Mbit/s
95th percentile per-packet one-way delay: 63.821 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 201.39 Mbit/s
95th percentile per-packet one-way delay: 62.340 ms
Loss rate: 0.25%
```

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



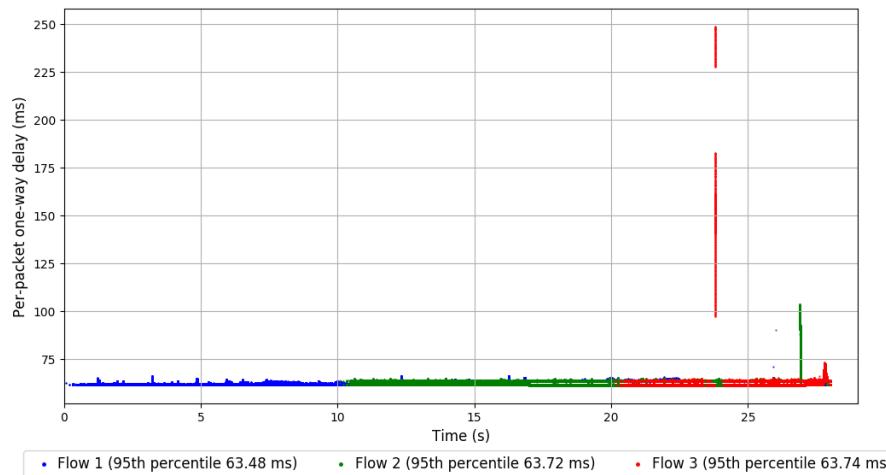
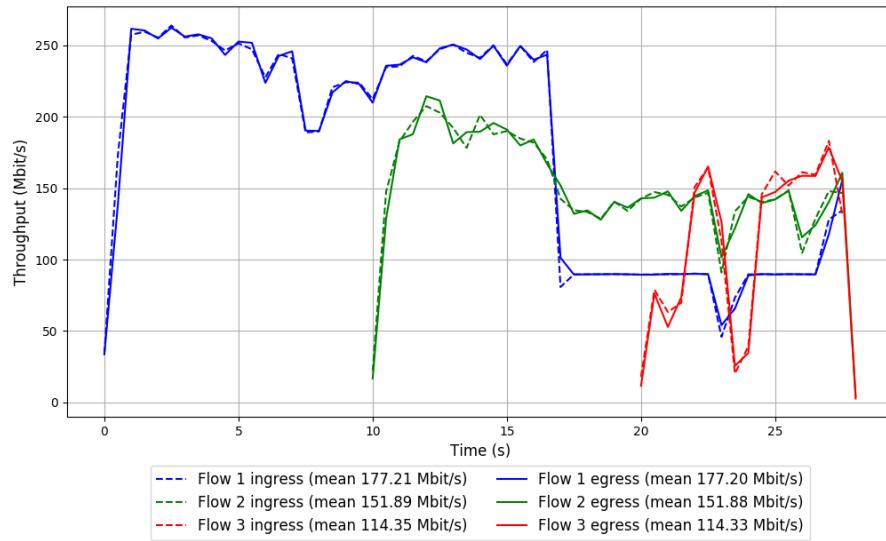
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-22 04:29:16

End at: 2017-11-22 04:29:46

```
# Below is generated by plot.py at 2017-11-22 08:06:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 306.40 Mbit/s
95th percentile per-packet one-way delay: 63.661 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 177.20 Mbit/s
95th percentile per-packet one-way delay: 63.475 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 151.88 Mbit/s
95th percentile per-packet one-way delay: 63.721 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 114.33 Mbit/s
95th percentile per-packet one-way delay: 63.737 ms
Loss rate: 0.00%
```

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



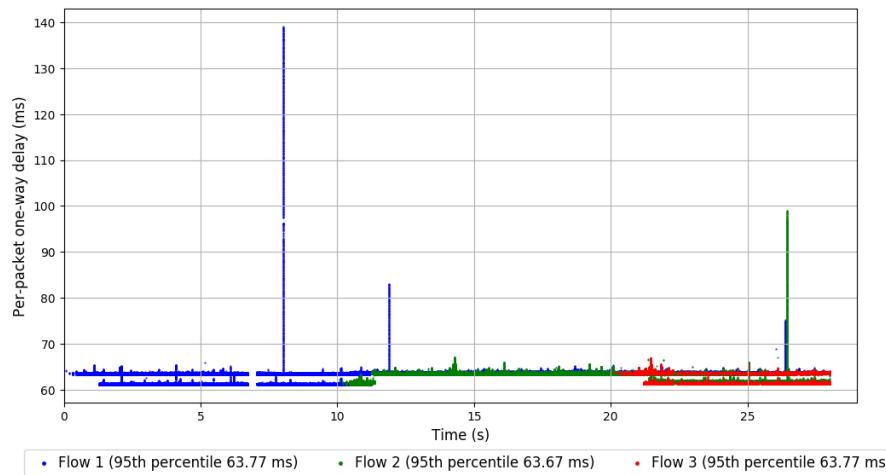
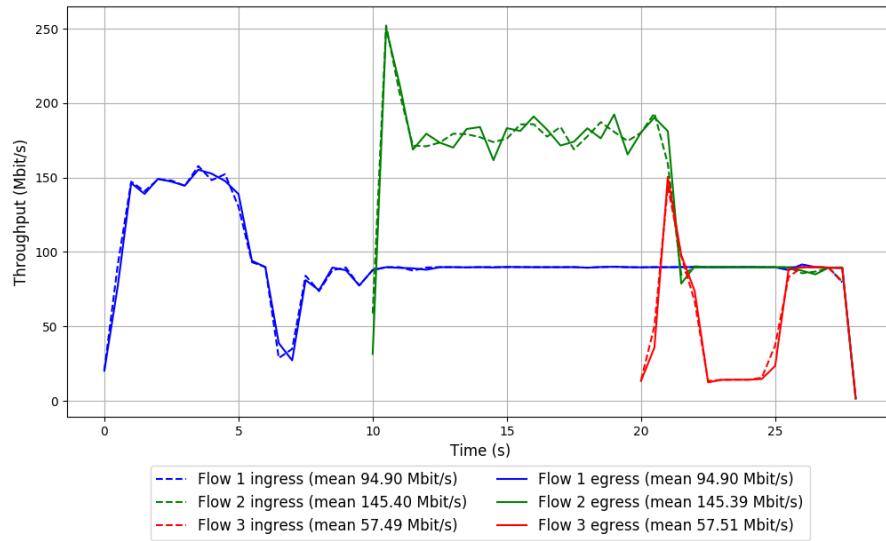
Run 3: Statistics of TaoVA-100x

Start at: 2017-11-22 04:41:32

End at: 2017-11-22 04:42:02

```
# Below is generated by plot.py at 2017-11-22 08:06:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 204.55 Mbit/s
95th percentile per-packet one-way delay: 63.733 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 94.90 Mbit/s
95th percentile per-packet one-way delay: 63.765 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 145.39 Mbit/s
95th percentile per-packet one-way delay: 63.668 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 57.51 Mbit/s
95th percentile per-packet one-way delay: 63.767 ms
Loss rate: 0.01%
```

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



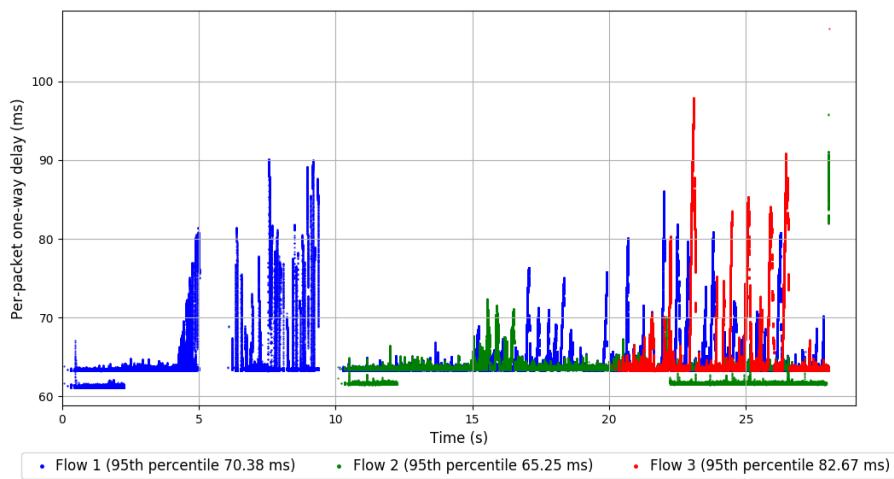
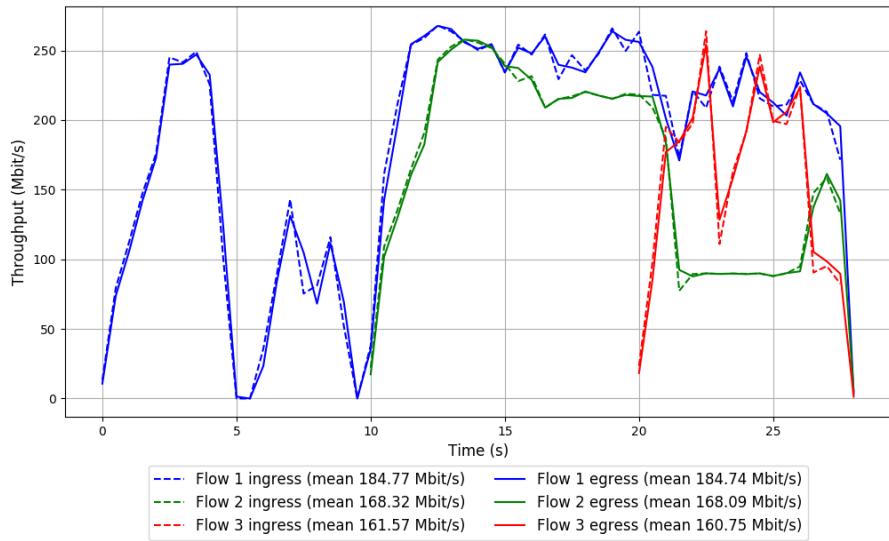
Run 4: Statistics of TaoVA-100x

Start at: 2017-11-22 04:53:41

End at: 2017-11-22 04:54:11

```
# Below is generated by plot.py at 2017-11-22 08:07:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 337.98 Mbit/s
95th percentile per-packet one-way delay: 70.485 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 184.74 Mbit/s
95th percentile per-packet one-way delay: 70.380 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 168.09 Mbit/s
95th percentile per-packet one-way delay: 65.249 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 160.75 Mbit/s
95th percentile per-packet one-way delay: 82.671 ms
Loss rate: 0.05%
```

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



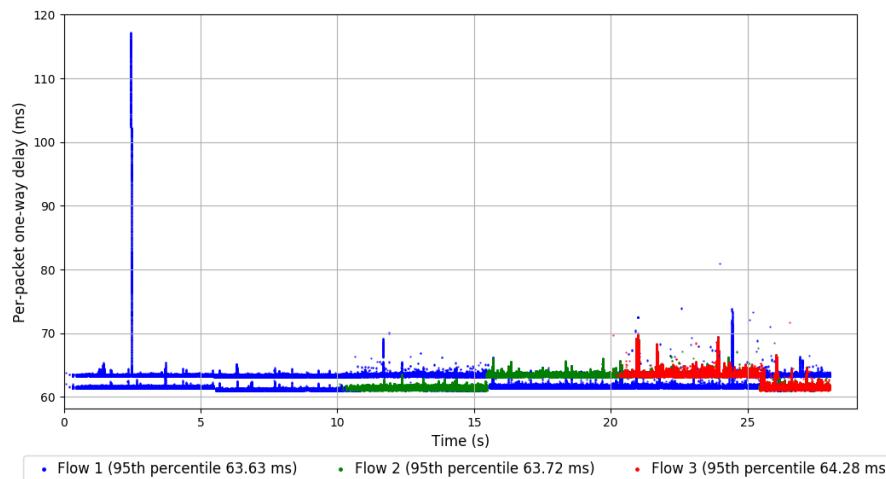
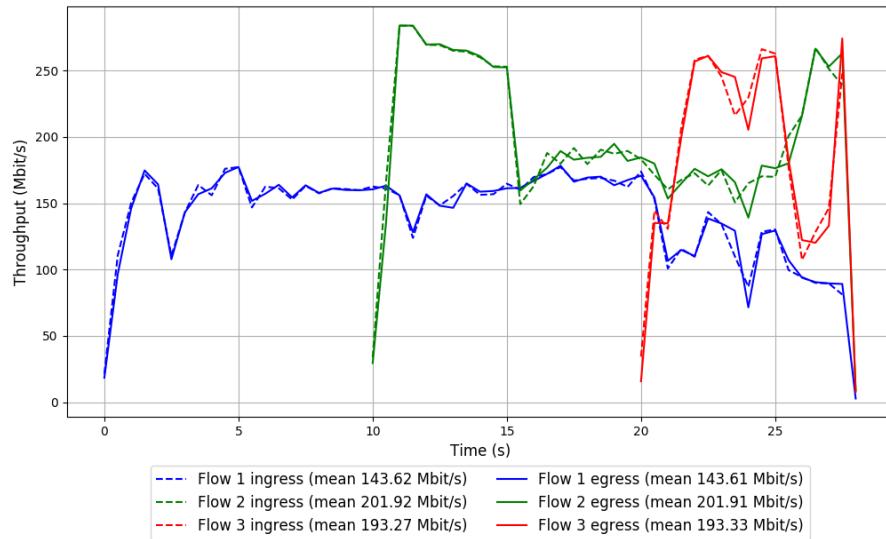
Run 5: Statistics of TaoVA-100x

Start at: 2017-11-22 05:06:08

End at: 2017-11-22 05:06:38

```
# Below is generated by plot.py at 2017-11-22 08:07:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 327.99 Mbit/s
95th percentile per-packet one-way delay: 63.778 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 143.61 Mbit/s
95th percentile per-packet one-way delay: 63.631 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 201.91 Mbit/s
95th percentile per-packet one-way delay: 63.724 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 193.33 Mbit/s
95th percentile per-packet one-way delay: 64.285 ms
Loss rate: 0.00%
```

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



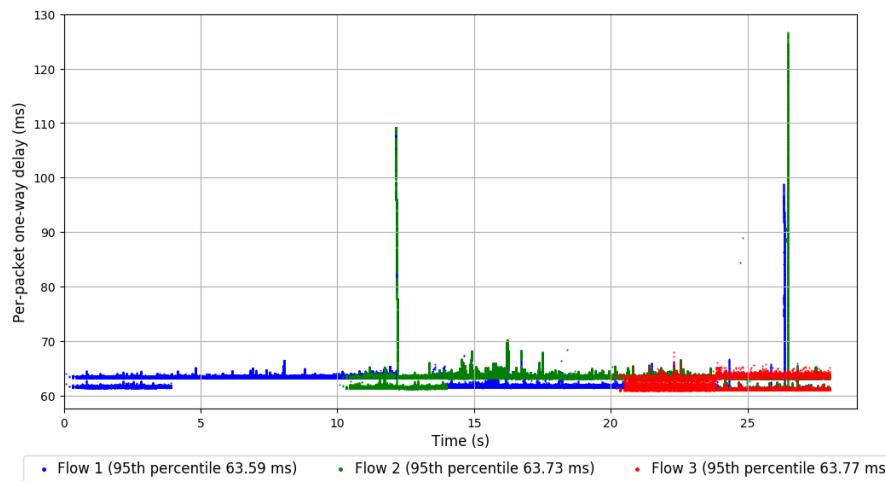
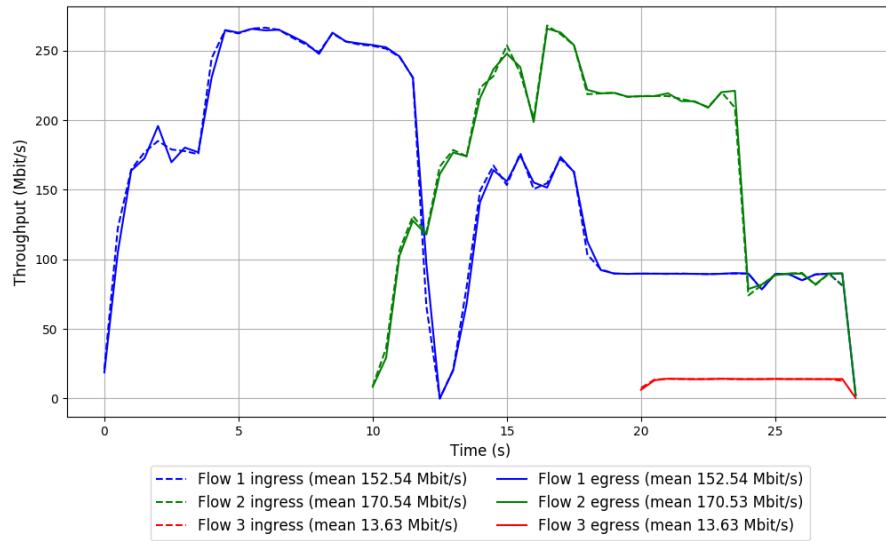
Run 6: Statistics of TaoVA-100x

Start at: 2017-11-22 05:18:29

End at: 2017-11-22 05:18:59

```
# Below is generated by plot.py at 2017-11-22 08:07:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 265.89 Mbit/s
95th percentile per-packet one-way delay: 63.642 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 152.54 Mbit/s
95th percentile per-packet one-way delay: 63.590 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 170.53 Mbit/s
95th percentile per-packet one-way delay: 63.731 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 13.63 Mbit/s
95th percentile per-packet one-way delay: 63.771 ms
Loss rate: 0.01%
```

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



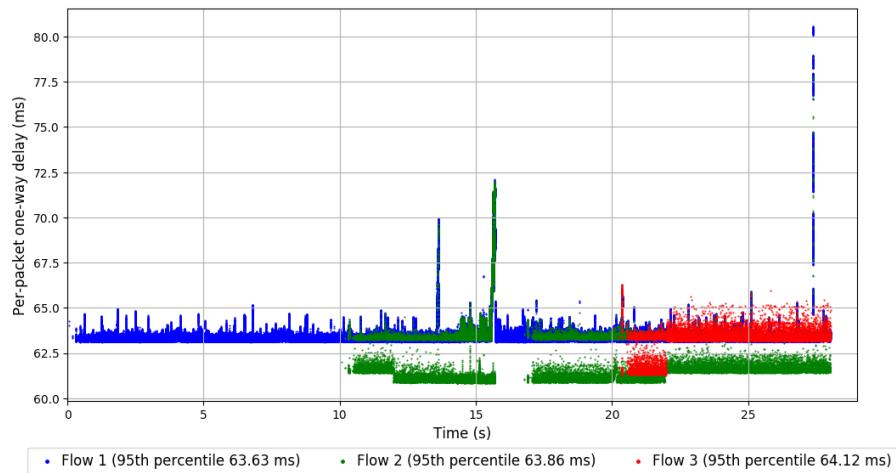
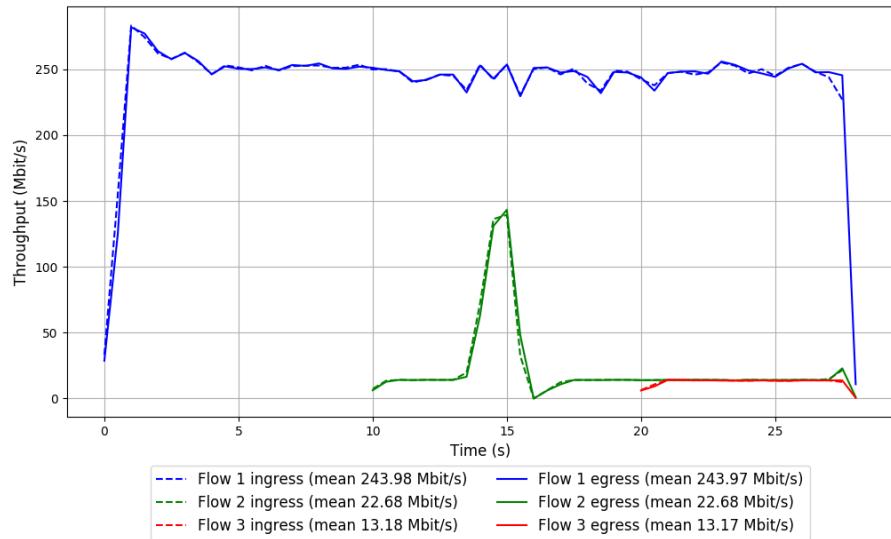
Run 7: Statistics of TaoVA-100x

Start at: 2017-11-22 05:30:41

End at: 2017-11-22 05:31:11

```
# Below is generated by plot.py at 2017-11-22 08:10:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 262.26 Mbit/s
95th percentile per-packet one-way delay: 63.650 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 243.97 Mbit/s
95th percentile per-packet one-way delay: 63.634 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 22.68 Mbit/s
95th percentile per-packet one-way delay: 63.859 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 13.17 Mbit/s
95th percentile per-packet one-way delay: 64.118 ms
Loss rate: 0.00%
```

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



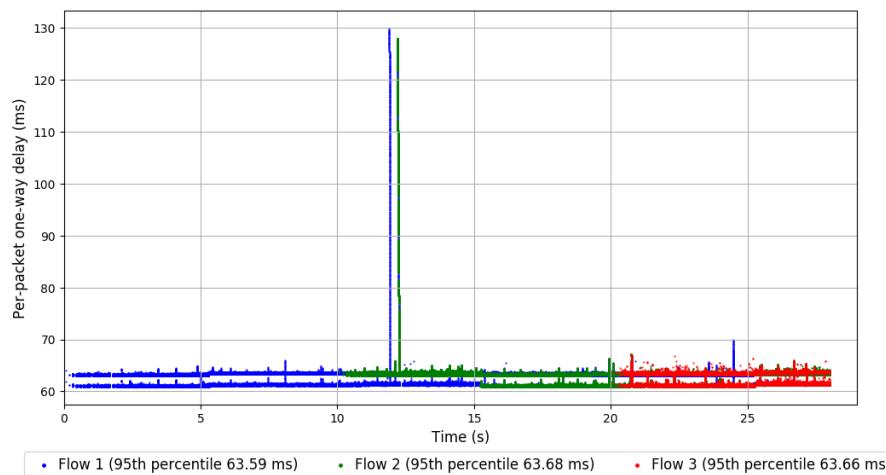
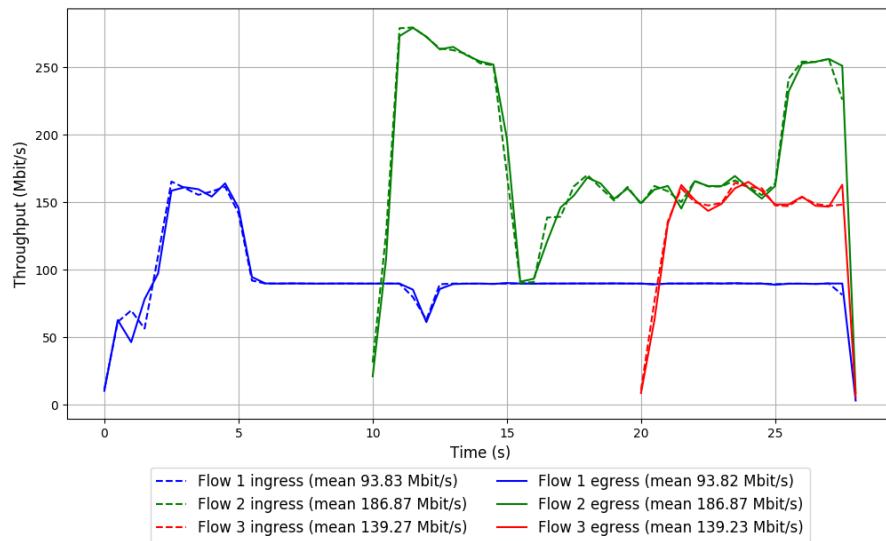
Run 8: Statistics of TaoVA-100x

Start at: 2017-11-22 05:42:58

End at: 2017-11-22 05:43:28

```
# Below is generated by plot.py at 2017-11-22 08:10:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 253.24 Mbit/s
95th percentile per-packet one-way delay: 63.647 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 93.82 Mbit/s
95th percentile per-packet one-way delay: 63.587 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 186.87 Mbit/s
95th percentile per-packet one-way delay: 63.680 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 139.23 Mbit/s
95th percentile per-packet one-way delay: 63.657 ms
Loss rate: 0.01%
```

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



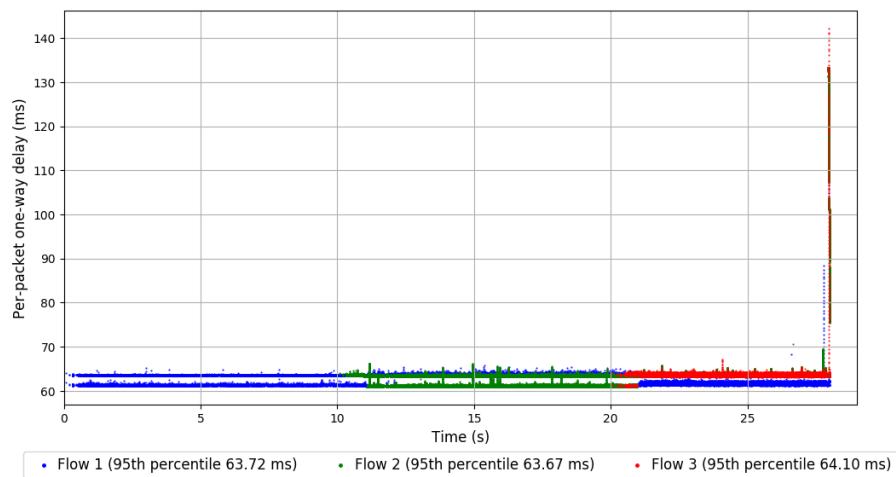
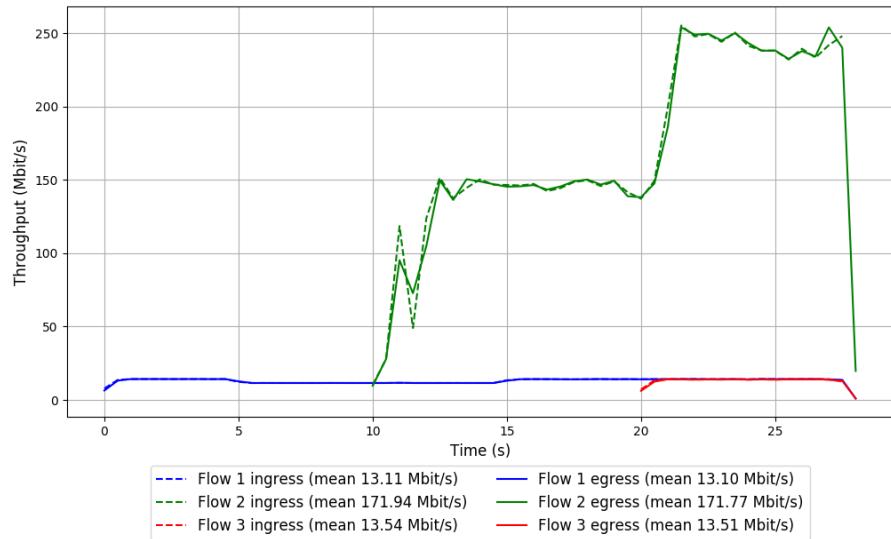
Run 9: Statistics of TaoVA-100x

Start at: 2017-11-22 05:55:12

End at: 2017-11-22 05:55:42

```
# Below is generated by plot.py at 2017-11-22 08:10:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 127.18 Mbit/s
95th percentile per-packet one-way delay: 63.689 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 13.10 Mbit/s
95th percentile per-packet one-way delay: 63.720 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 171.77 Mbit/s
95th percentile per-packet one-way delay: 63.675 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 13.51 Mbit/s
95th percentile per-packet one-way delay: 64.099 ms
Loss rate: 0.16%
```

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



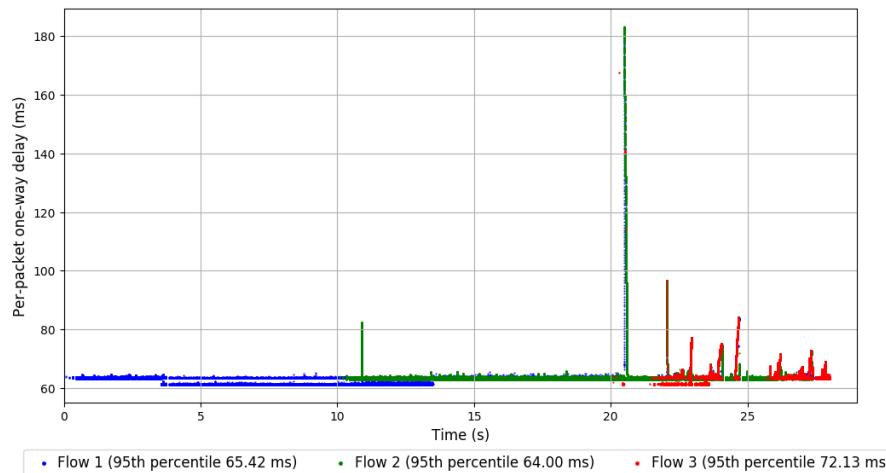
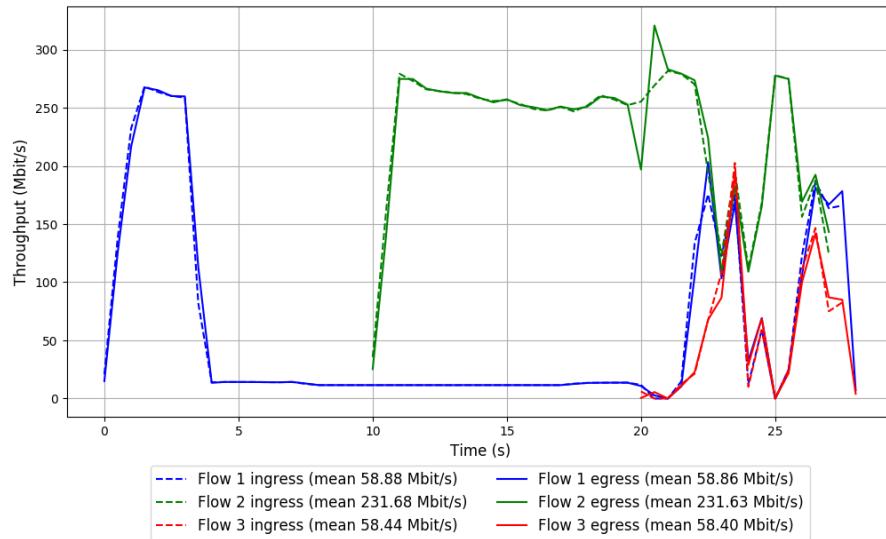
Run 10: Statistics of TaoVA-100x

Start at: 2017-11-22 06:07:20

End at: 2017-11-22 06:07:50

```
# Below is generated by plot.py at 2017-11-22 08:12:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 218.74 Mbit/s
95th percentile per-packet one-way delay: 65.003 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 58.86 Mbit/s
95th percentile per-packet one-way delay: 65.425 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 231.63 Mbit/s
95th percentile per-packet one-way delay: 64.001 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 58.40 Mbit/s
95th percentile per-packet one-way delay: 72.128 ms
Loss rate: 0.06%
```

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



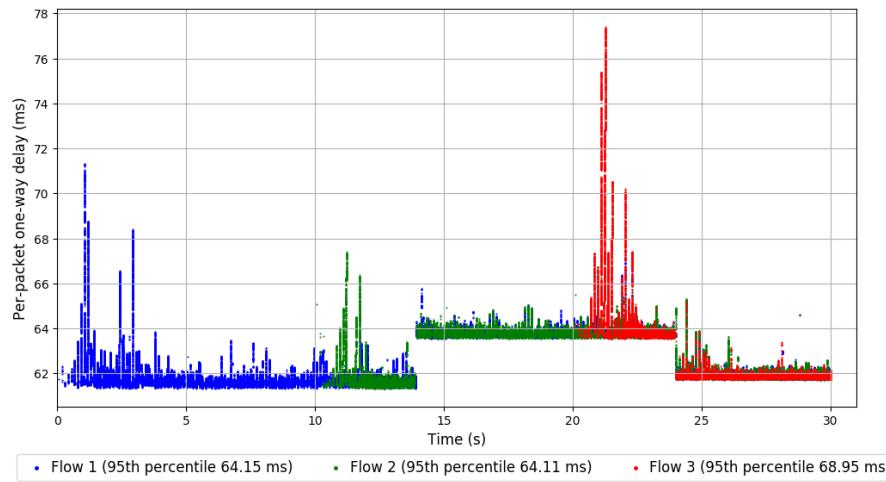
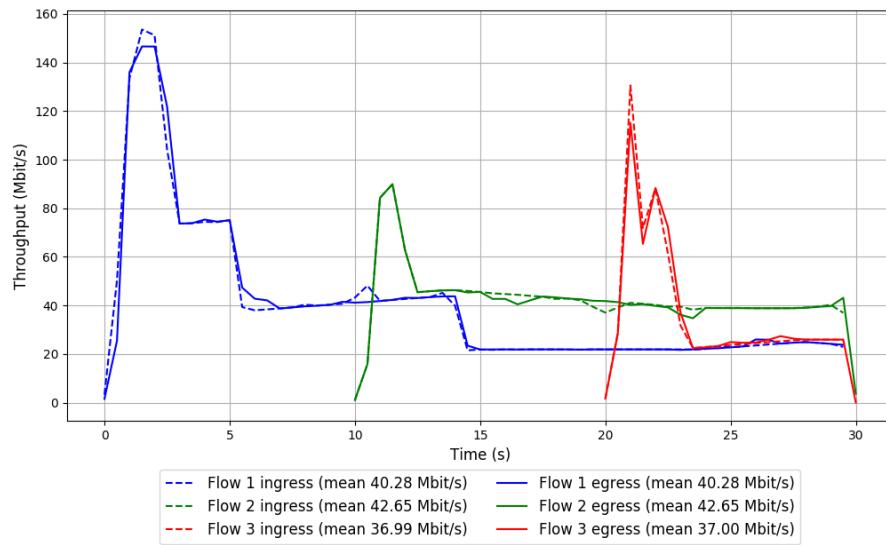
Run 1: Statistics of TCP Vegas

Start at: 2017-11-22 04:11:21

End at: 2017-11-22 04:11:51

```
# Below is generated by plot.py at 2017-11-22 08:12:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.92 Mbit/s
95th percentile per-packet one-way delay: 64.578 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 40.28 Mbit/s
95th percentile per-packet one-way delay: 64.149 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 42.65 Mbit/s
95th percentile per-packet one-way delay: 64.107 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 37.00 Mbit/s
95th percentile per-packet one-way delay: 68.948 ms
Loss rate: 0.01%
```

Run 1: Report of TCP Vegas — Data Link



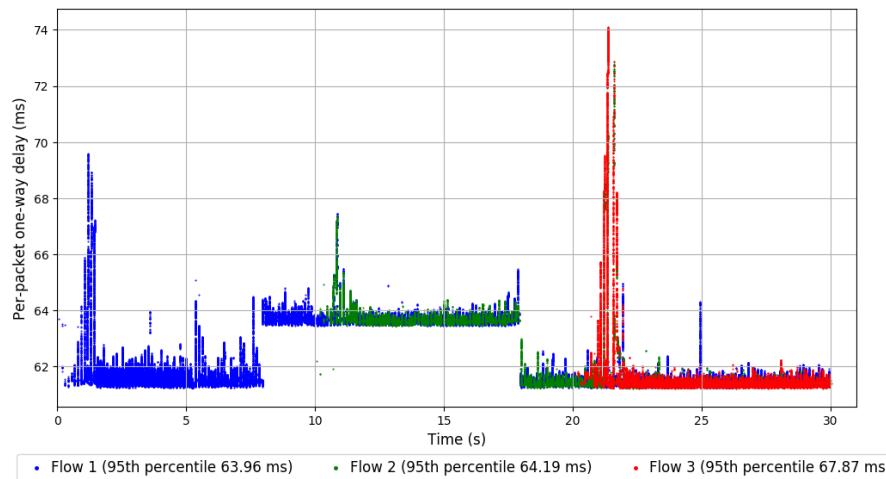
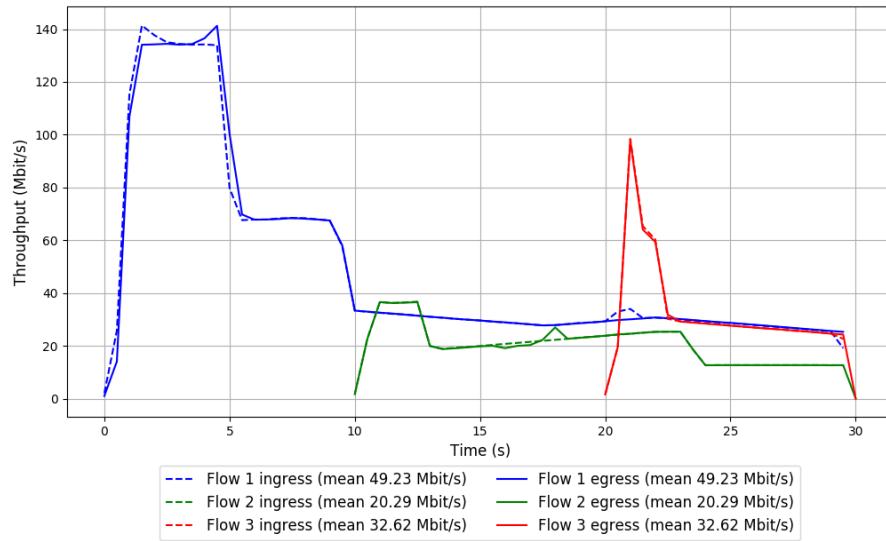
Run 2: Statistics of TCP Vegas

Start at: 2017-11-22 04:23:47

End at: 2017-11-22 04:24:17

```
# Below is generated by plot.py at 2017-11-22 08:12:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.48 Mbit/s
95th percentile per-packet one-way delay: 64.099 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.23 Mbit/s
95th percentile per-packet one-way delay: 63.963 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.29 Mbit/s
95th percentile per-packet one-way delay: 64.186 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 32.62 Mbit/s
95th percentile per-packet one-way delay: 67.870 ms
Loss rate: 0.00%
```

Run 2: Report of TCP Vegas — Data Link



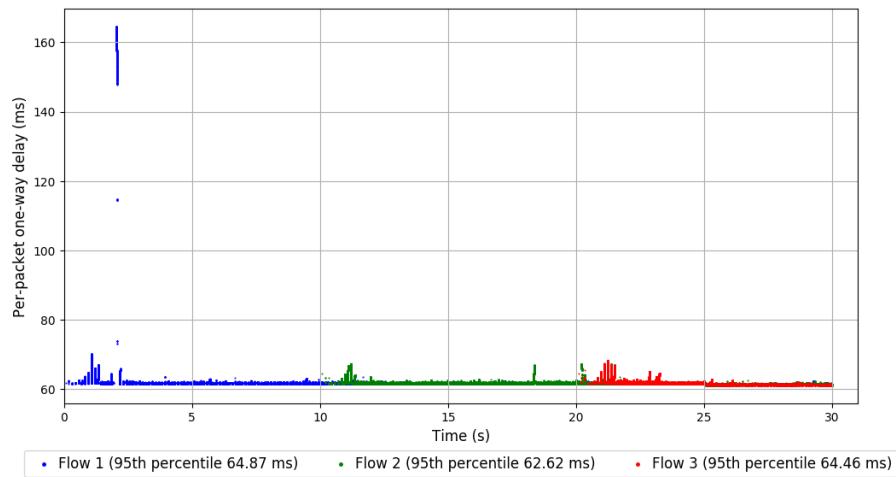
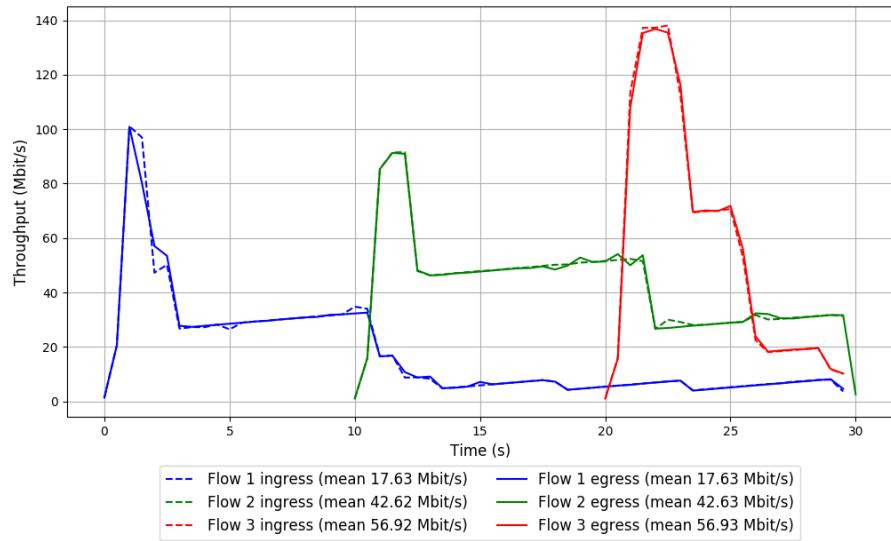
Run 3: Statistics of TCP Vegas

Start at: 2017-11-22 04:36:10

End at: 2017-11-22 04:36:40

```
# Below is generated by plot.py at 2017-11-22 08:12:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.80 Mbit/s
95th percentile per-packet one-way delay: 64.090 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 17.63 Mbit/s
95th percentile per-packet one-way delay: 64.872 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 42.63 Mbit/s
95th percentile per-packet one-way delay: 62.625 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 56.93 Mbit/s
95th percentile per-packet one-way delay: 64.460 ms
Loss rate: 0.01%
```

Run 3: Report of TCP Vegas — Data Link



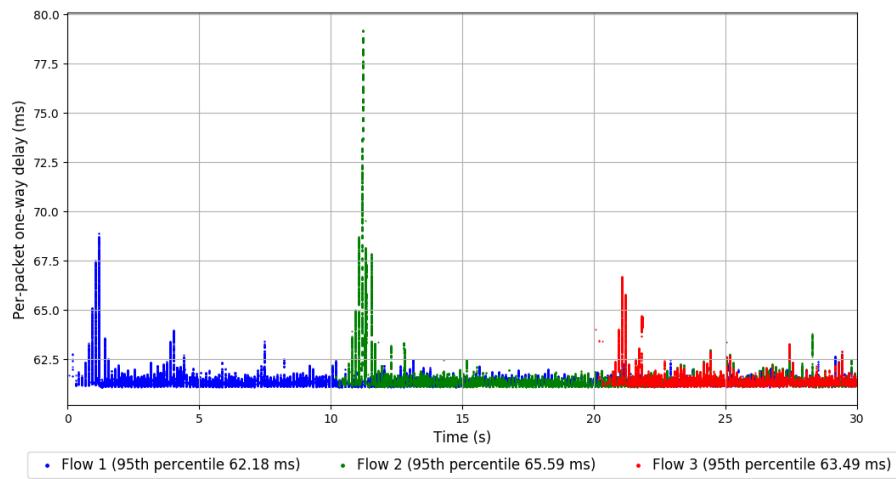
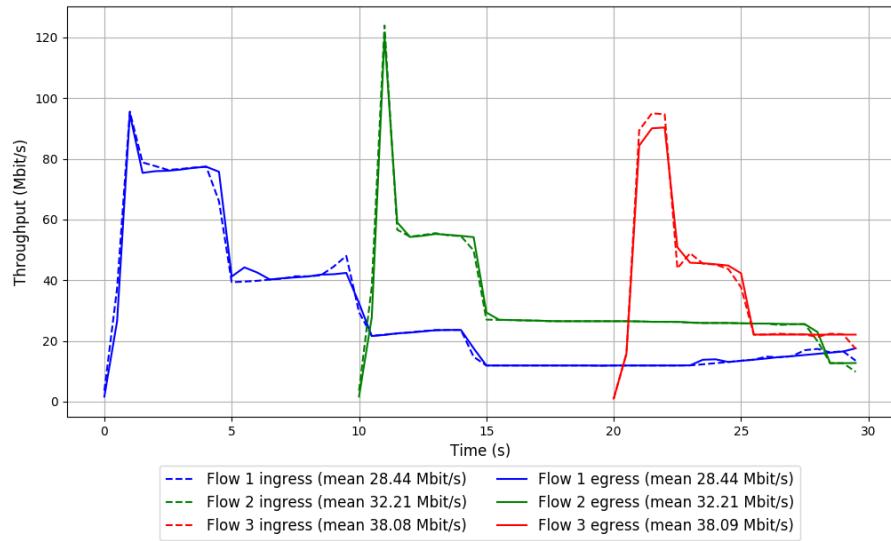
Run 4: Statistics of TCP Vegas

Start at: 2017-11-22 04:48:16

End at: 2017-11-22 04:48:46

```
# Below is generated by plot.py at 2017-11-22 08:12:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.48 Mbit/s
95th percentile per-packet one-way delay: 63.248 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.44 Mbit/s
95th percentile per-packet one-way delay: 62.177 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 32.21 Mbit/s
95th percentile per-packet one-way delay: 65.595 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 38.09 Mbit/s
95th percentile per-packet one-way delay: 63.491 ms
Loss rate: 0.01%
```

Run 4: Report of TCP Vegas — Data Link



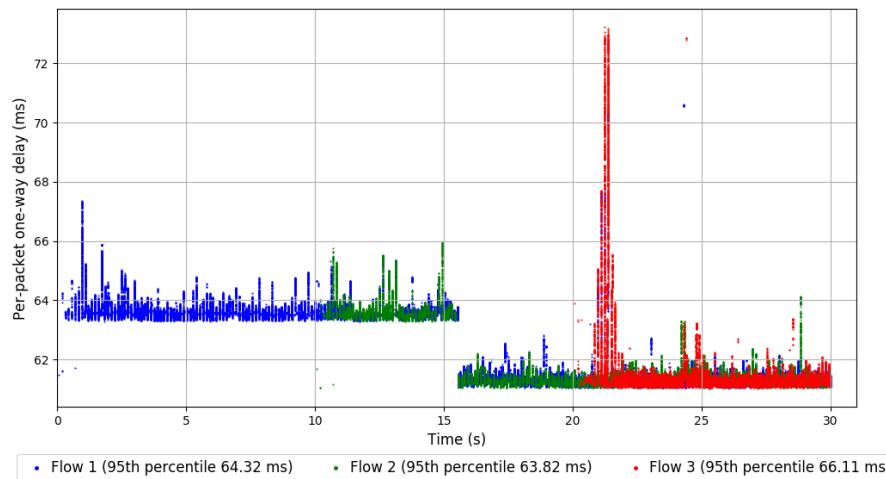
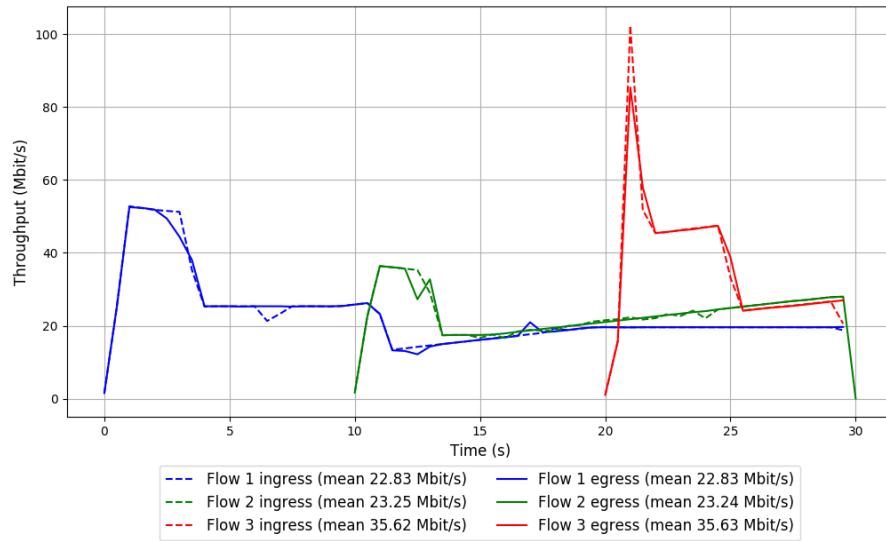
Run 5: Statistics of TCP Vegas

Start at: 2017-11-22 05:00:39

End at: 2017-11-22 05:01:09

```
# Below is generated by plot.py at 2017-11-22 08:12:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 50.10 Mbit/s
95th percentile per-packet one-way delay: 64.249 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 22.83 Mbit/s
95th percentile per-packet one-way delay: 64.323 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 23.24 Mbit/s
95th percentile per-packet one-way delay: 63.821 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 35.63 Mbit/s
95th percentile per-packet one-way delay: 66.109 ms
Loss rate: 0.00%
```

Run 5: Report of TCP Vegas — Data Link



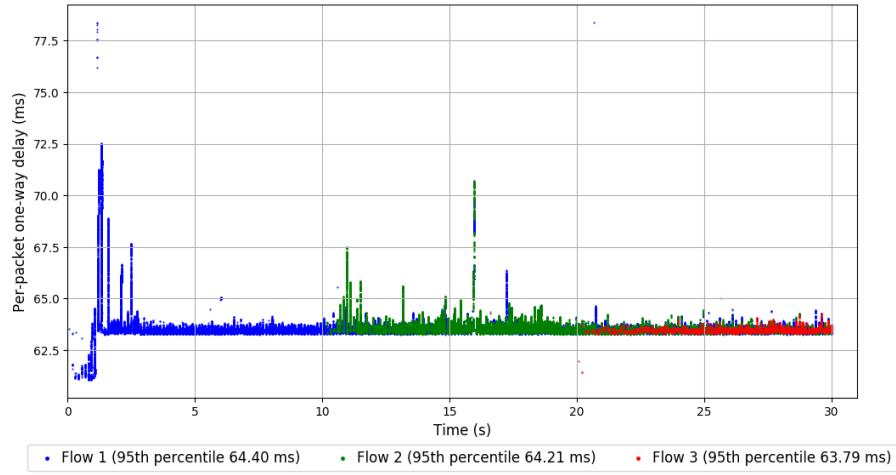
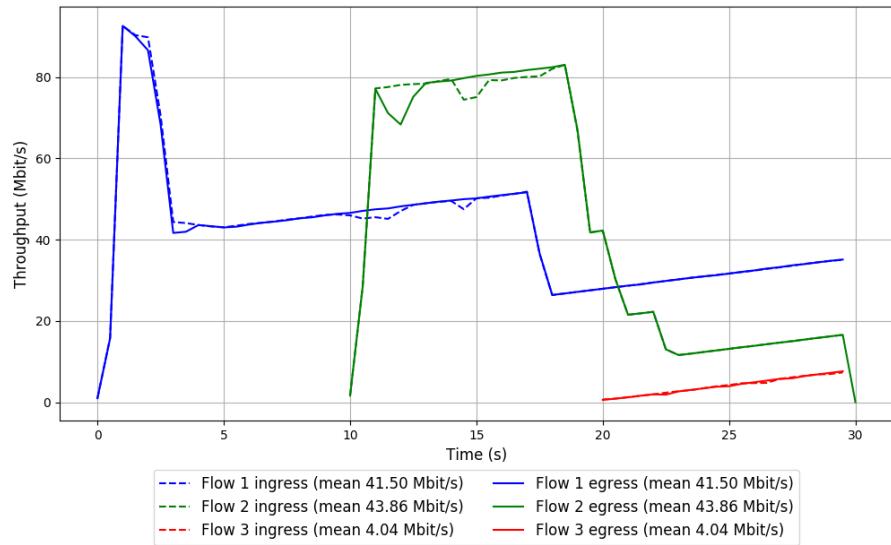
Run 6: Statistics of TCP Vegas

Start at: 2017-11-22 05:13:04

End at: 2017-11-22 05:13:34

```
# Below is generated by plot.py at 2017-11-22 08:12:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.03 Mbit/s
95th percentile per-packet one-way delay: 64.247 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 41.50 Mbit/s
95th percentile per-packet one-way delay: 64.400 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 43.86 Mbit/s
95th percentile per-packet one-way delay: 64.206 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.04 Mbit/s
95th percentile per-packet one-way delay: 63.792 ms
Loss rate: 0.12%
```

Run 6: Report of TCP Vegas — Data Link



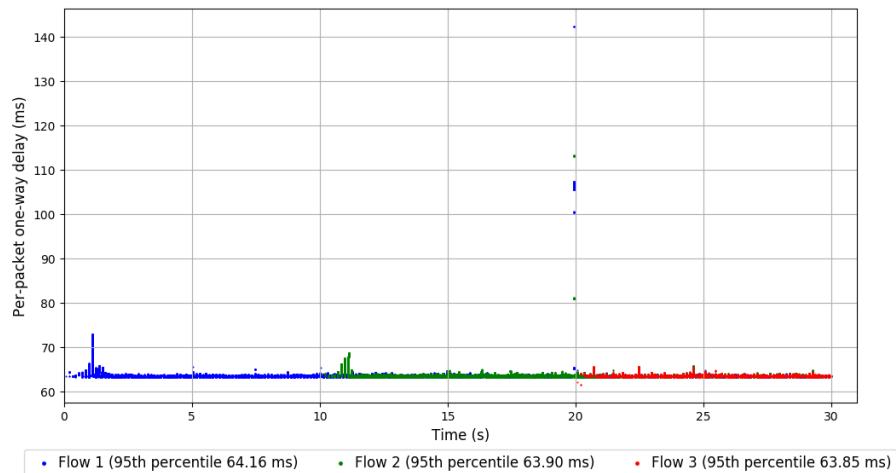
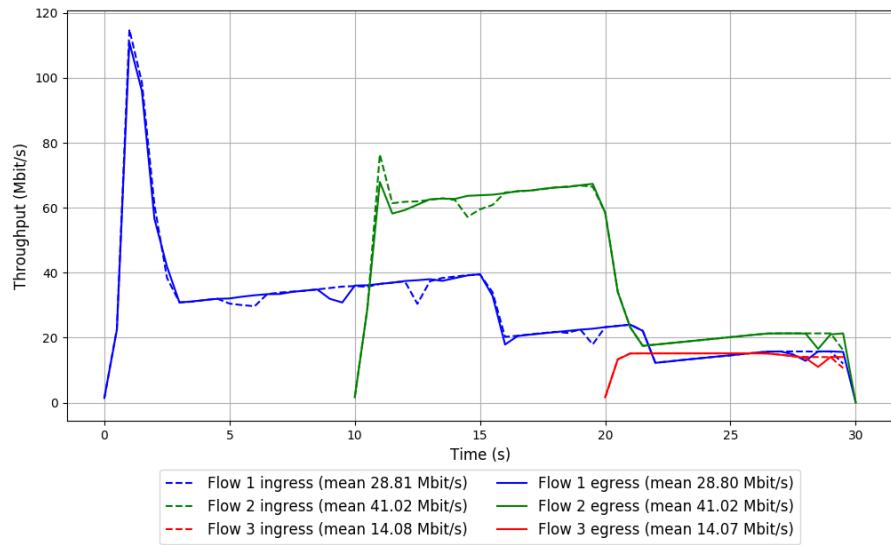
Run 7: Statistics of TCP Vegas

Start at: 2017-11-22 05:25:22

End at: 2017-11-22 05:25:52

```
# Below is generated by plot.py at 2017-11-22 08:12:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.75 Mbit/s
95th percentile per-packet one-way delay: 63.986 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 28.80 Mbit/s
95th percentile per-packet one-way delay: 64.164 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 41.02 Mbit/s
95th percentile per-packet one-way delay: 63.902 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 14.07 Mbit/s
95th percentile per-packet one-way delay: 63.853 ms
Loss rate: 0.00%
```

Run 7: Report of TCP Vegas — Data Link



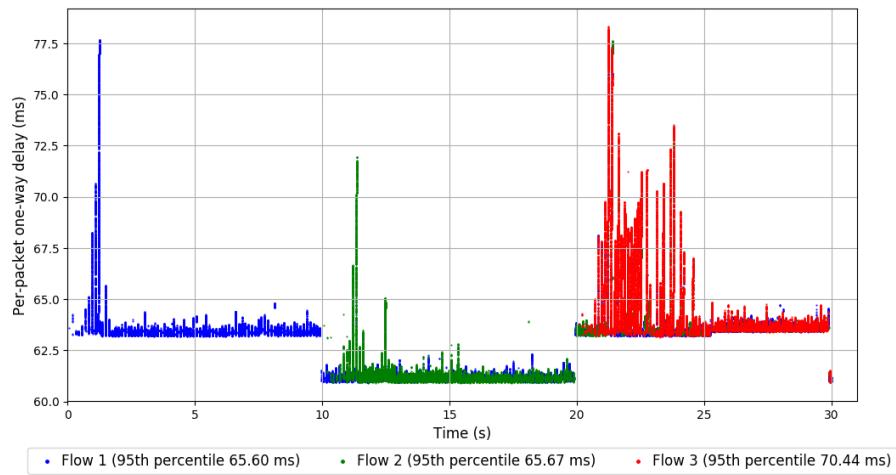
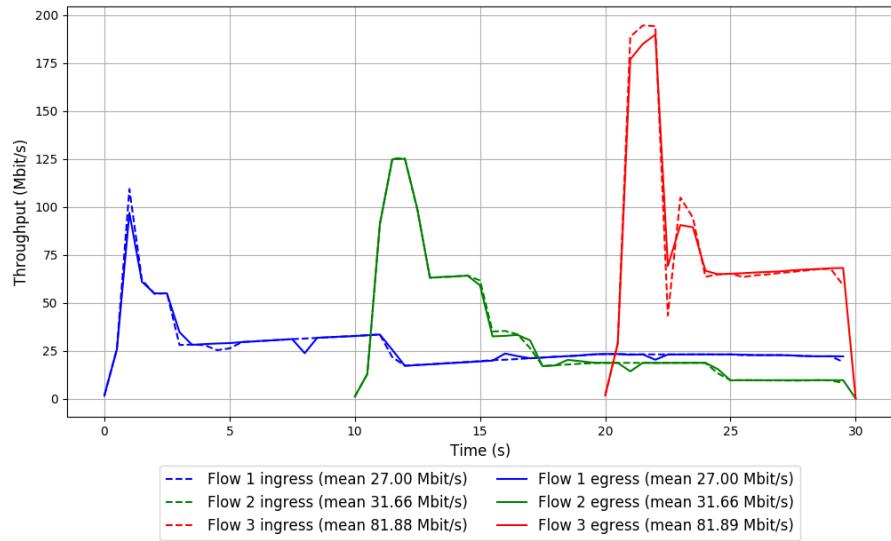
Run 8: Statistics of TCP Vegas

Start at: 2017-11-22 05:37:35

End at: 2017-11-22 05:38:05

```
# Below is generated by plot.py at 2017-11-22 08:12:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.25 Mbit/s
95th percentile per-packet one-way delay: 68.645 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 27.00 Mbit/s
95th percentile per-packet one-way delay: 65.601 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 31.66 Mbit/s
95th percentile per-packet one-way delay: 65.666 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 81.89 Mbit/s
95th percentile per-packet one-way delay: 70.443 ms
Loss rate: 0.00%
```

Run 8: Report of TCP Vegas — Data Link



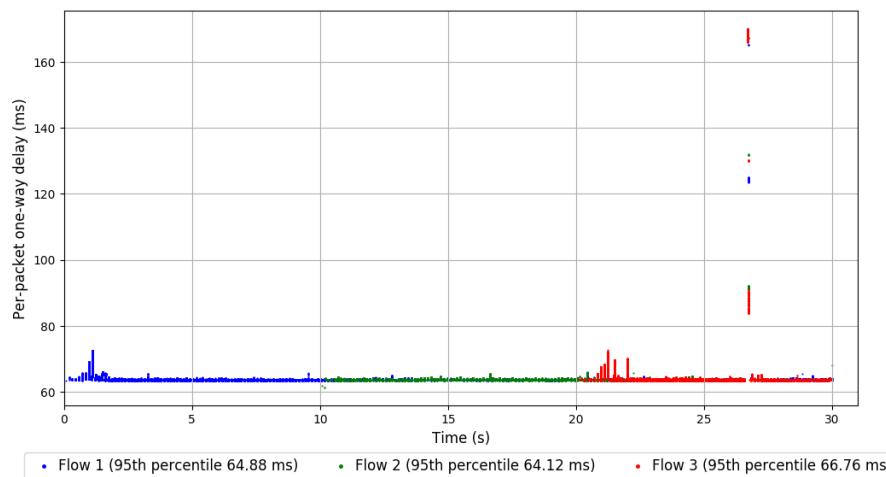
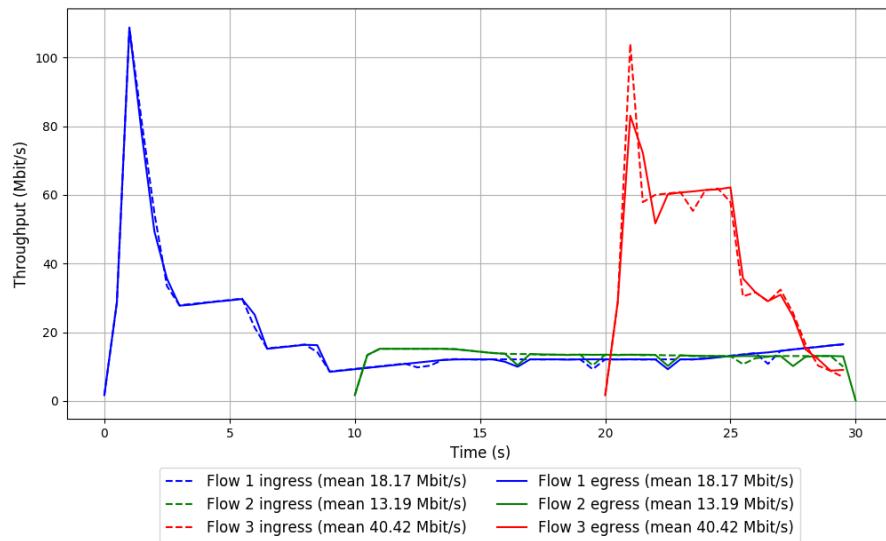
Run 9: Statistics of TCP Vegas

Start at: 2017-11-22 05:49:45

End at: 2017-11-22 05:50:15

```
# Below is generated by plot.py at 2017-11-22 08:12:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.33 Mbit/s
95th percentile per-packet one-way delay: 64.969 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 18.17 Mbit/s
95th percentile per-packet one-way delay: 64.878 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 13.19 Mbit/s
95th percentile per-packet one-way delay: 64.120 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 40.42 Mbit/s
95th percentile per-packet one-way delay: 66.761 ms
Loss rate: 0.01%
```

Run 9: Report of TCP Vegas — Data Link



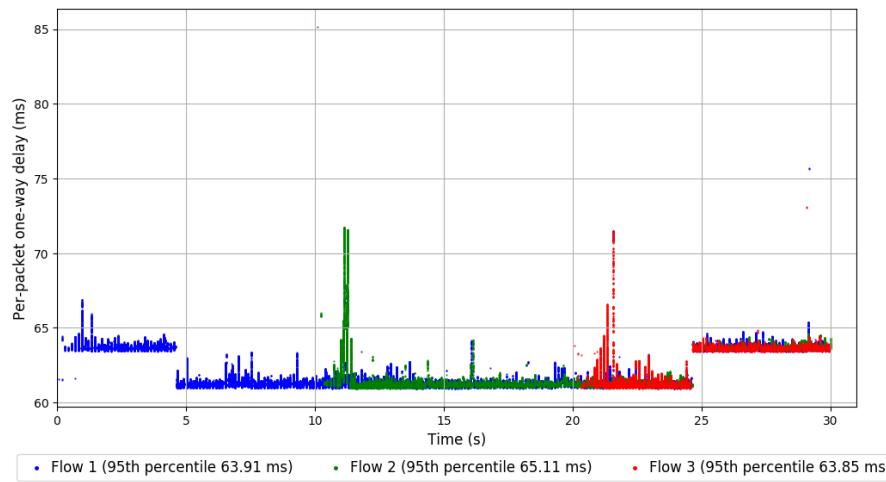
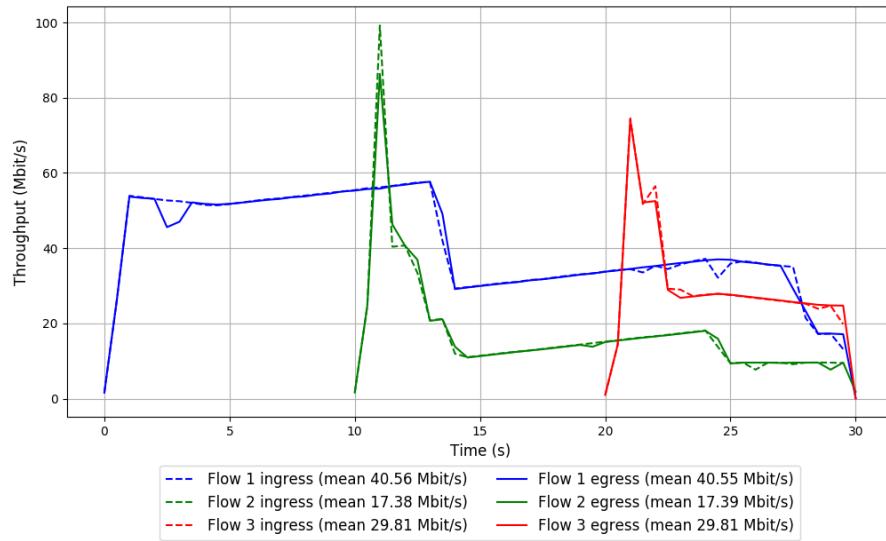
Run 10: Statistics of TCP Vegas

Start at: 2017-11-22 06:01:50

End at: 2017-11-22 06:02:20

```
# Below is generated by plot.py at 2017-11-22 08:12:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.99 Mbit/s
95th percentile per-packet one-way delay: 63.936 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 40.55 Mbit/s
95th percentile per-packet one-way delay: 63.908 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 17.39 Mbit/s
95th percentile per-packet one-way delay: 65.113 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 29.81 Mbit/s
95th percentile per-packet one-way delay: 63.847 ms
Loss rate: 0.00%
```

Run 10: Report of TCP Vegas — Data Link



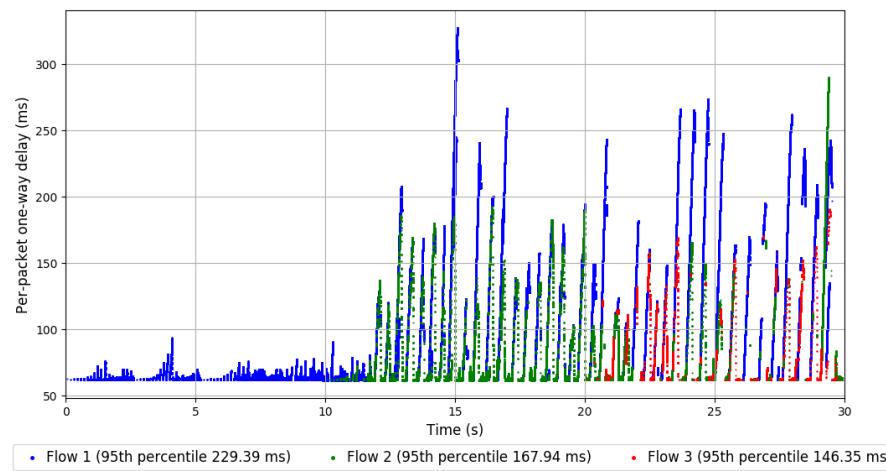
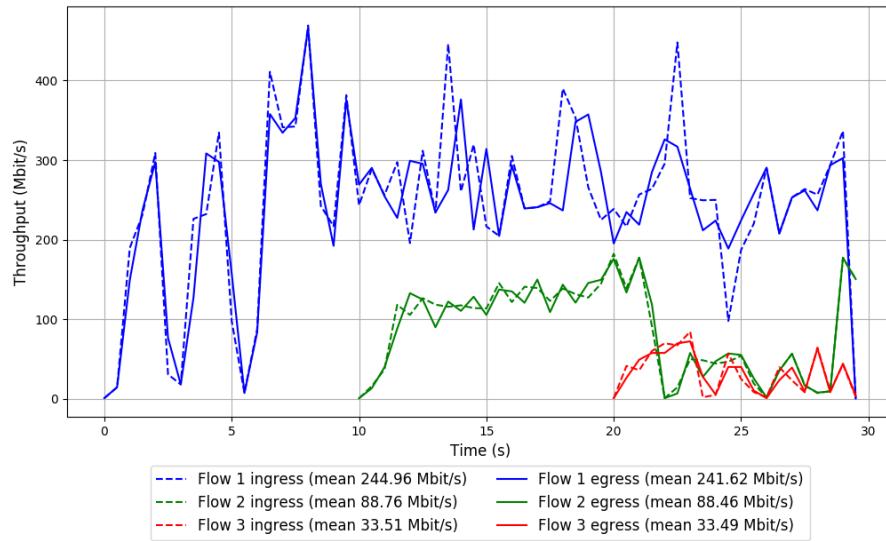
Run 1: Statistics of Verus

Start at: 2017-11-22 04:15:45

End at: 2017-11-22 04:16:15

```
# Below is generated by plot.py at 2017-11-22 08:14:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 311.16 Mbit/s
95th percentile per-packet one-way delay: 222.541 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 241.62 Mbit/s
95th percentile per-packet one-way delay: 229.388 ms
Loss rate: 1.36%
-- Flow 2:
Average throughput: 88.46 Mbit/s
95th percentile per-packet one-way delay: 167.935 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 33.49 Mbit/s
95th percentile per-packet one-way delay: 146.354 ms
Loss rate: 0.07%
```

Run 1: Report of Verus — Data Link



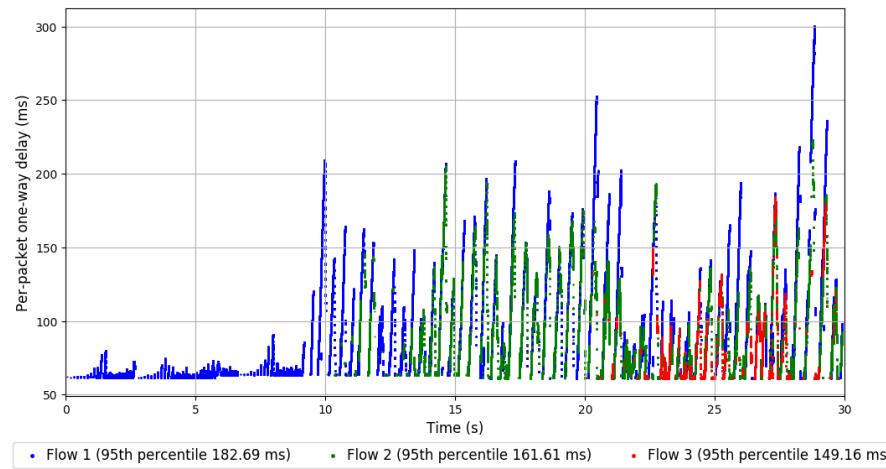
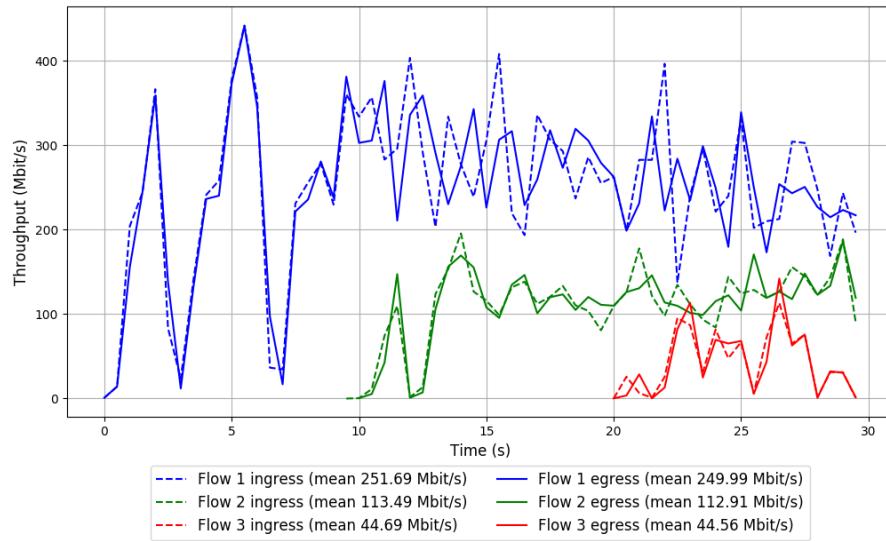
Run 2: Statistics of Verus

Start at: 2017-11-22 04:28:09

End at: 2017-11-22 04:28:39

```
# Below is generated by plot.py at 2017-11-22 08:15:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 339.53 Mbit/s
95th percentile per-packet one-way delay: 177.422 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 249.99 Mbit/s
95th percentile per-packet one-way delay: 182.691 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 112.91 Mbit/s
95th percentile per-packet one-way delay: 161.614 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 44.56 Mbit/s
95th percentile per-packet one-way delay: 149.162 ms
Loss rate: 0.28%
```

Run 2: Report of Verus — Data Link



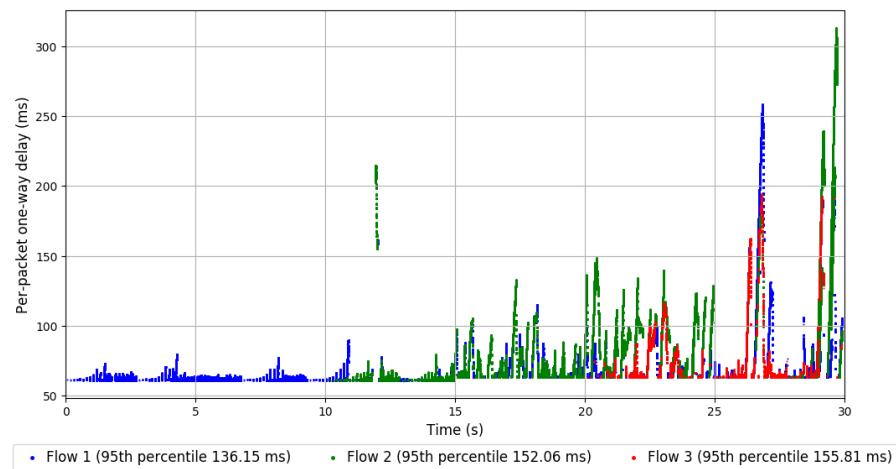
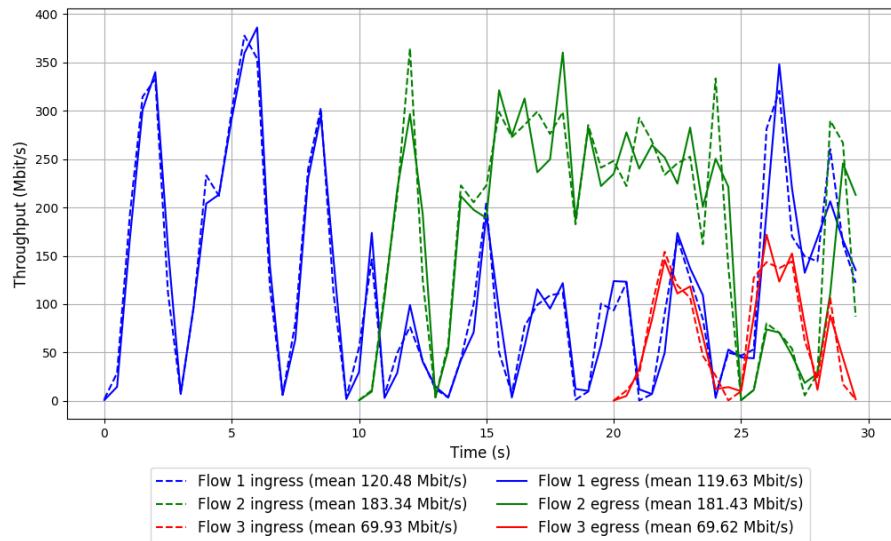
Run 3: Statistics of Verus

Start at: 2017-11-22 04:40:30

End at: 2017-11-22 04:41:00

```
# Below is generated by plot.py at 2017-11-22 08:15:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 262.96 Mbit/s
95th percentile per-packet one-way delay: 146.791 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 119.63 Mbit/s
95th percentile per-packet one-way delay: 136.154 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 181.43 Mbit/s
95th percentile per-packet one-way delay: 152.063 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 69.62 Mbit/s
95th percentile per-packet one-way delay: 155.814 ms
Loss rate: 0.21%
```

Run 3: Report of Verus — Data Link



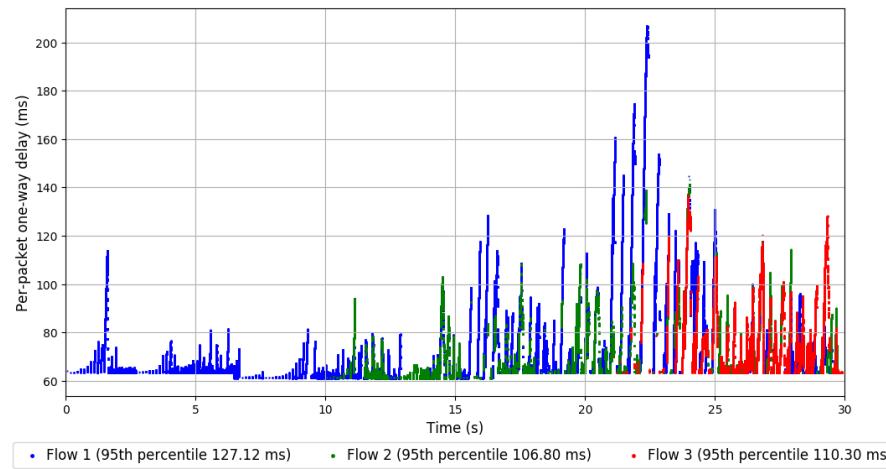
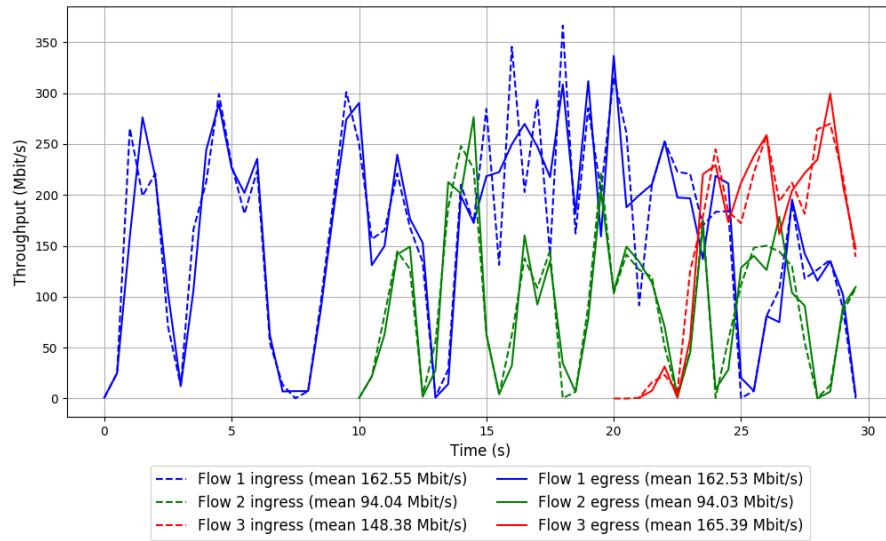
Run 4: Statistics of Verus

Start at: 2017-11-22 04:52:38

End at: 2017-11-22 04:53:08

```
# Below is generated by plot.py at 2017-11-22 08:15:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 273.01 Mbit/s
95th percentile per-packet one-way delay: 116.714 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 162.53 Mbit/s
95th percentile per-packet one-way delay: 127.117 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 94.03 Mbit/s
95th percentile per-packet one-way delay: 106.803 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 165.39 Mbit/s
95th percentile per-packet one-way delay: 110.297 ms
Loss rate: 0.01%
```

Run 4: Report of Verus — Data Link



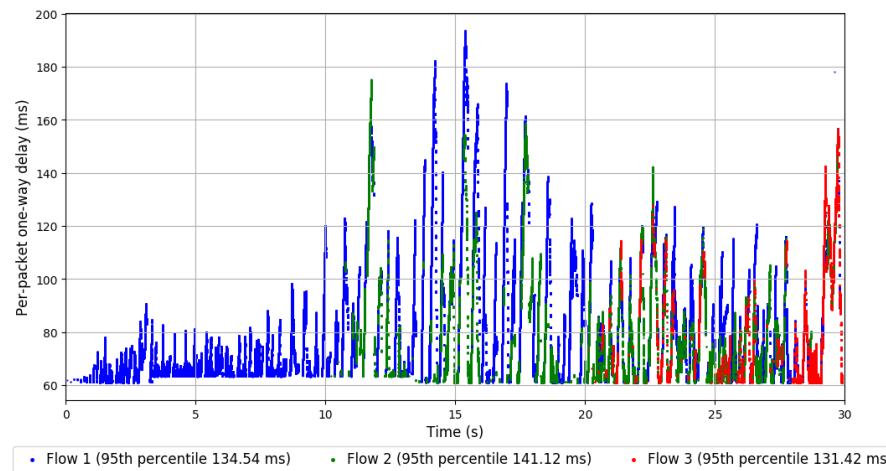
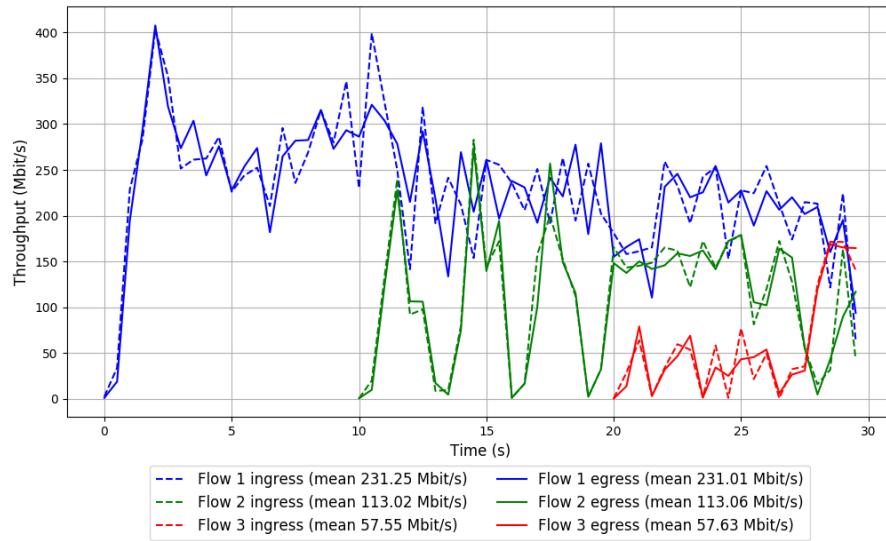
Run 5: Statistics of Verus

Start at: 2017-11-22 05:05:02

End at: 2017-11-22 05:05:32

```
# Below is generated by plot.py at 2017-11-22 08:15:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 324.31 Mbit/s
95th percentile per-packet one-way delay: 135.884 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 231.01 Mbit/s
95th percentile per-packet one-way delay: 134.543 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 113.06 Mbit/s
95th percentile per-packet one-way delay: 141.119 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 57.63 Mbit/s
95th percentile per-packet one-way delay: 131.420 ms
Loss rate: 0.00%
```

Run 5: Report of Verus — Data Link



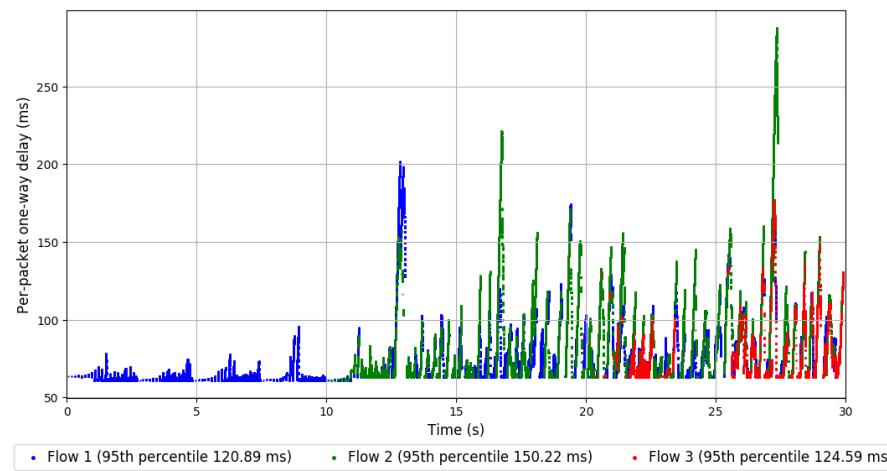
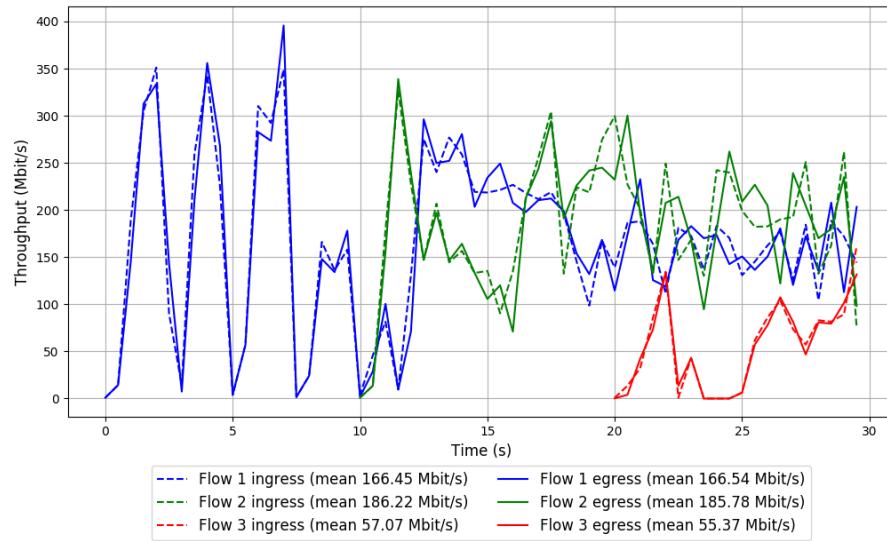
Run 6: Statistics of Verus

Start at: 2017-11-22 05:17:24

End at: 2017-11-22 05:17:54

```
# Below is generated by plot.py at 2017-11-22 08:16:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 307.86 Mbit/s
95th percentile per-packet one-way delay: 140.488 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 166.54 Mbit/s
95th percentile per-packet one-way delay: 120.885 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 185.78 Mbit/s
95th percentile per-packet one-way delay: 150.224 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 55.37 Mbit/s
95th percentile per-packet one-way delay: 124.595 ms
Loss rate: 3.08%
```

Run 6: Report of Verus — Data Link



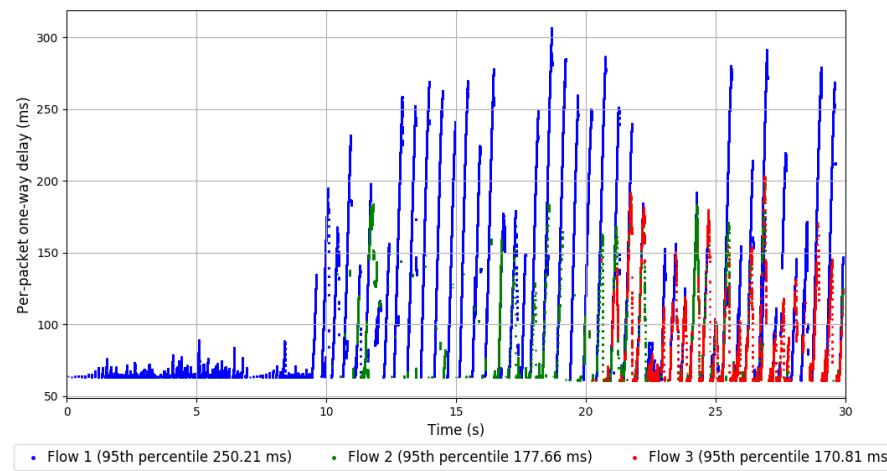
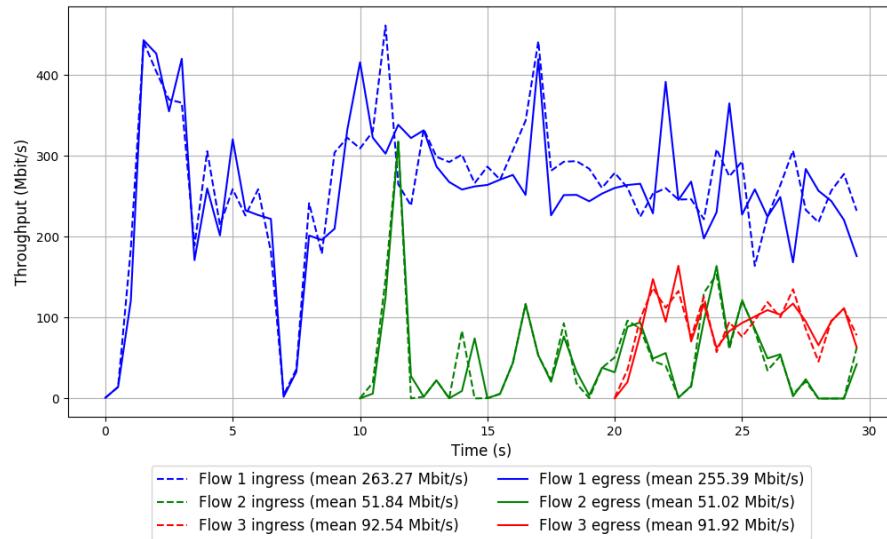
Run 7: Statistics of Verus

Start at: 2017-11-22 05:29:36

End at: 2017-11-22 05:30:06

```
# Below is generated by plot.py at 2017-11-22 08:16:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 319.36 Mbit/s
95th percentile per-packet one-way delay: 245.979 ms
Loss rate: 2.67%
-- Flow 1:
Average throughput: 255.39 Mbit/s
95th percentile per-packet one-way delay: 250.207 ms
Loss rate: 2.99%
-- Flow 2:
Average throughput: 51.02 Mbit/s
95th percentile per-packet one-way delay: 177.656 ms
Loss rate: 1.63%
-- Flow 3:
Average throughput: 91.92 Mbit/s
95th percentile per-packet one-way delay: 170.814 ms
Loss rate: 1.01%
```

Run 7: Report of Verus — Data Link



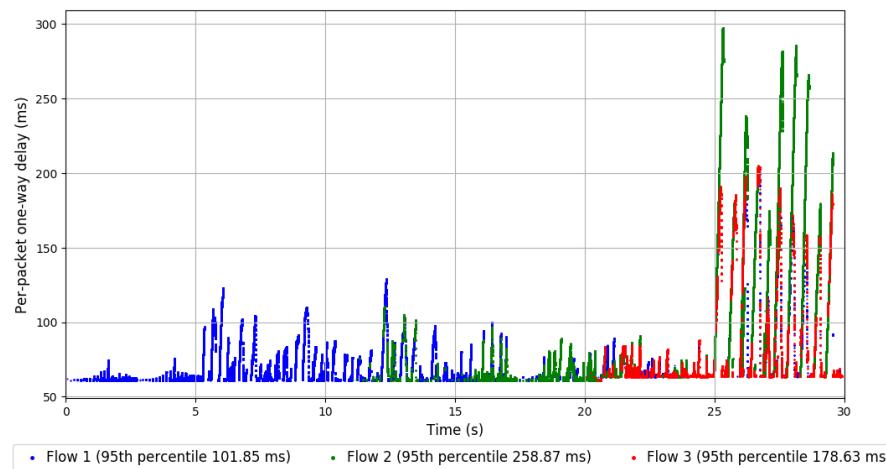
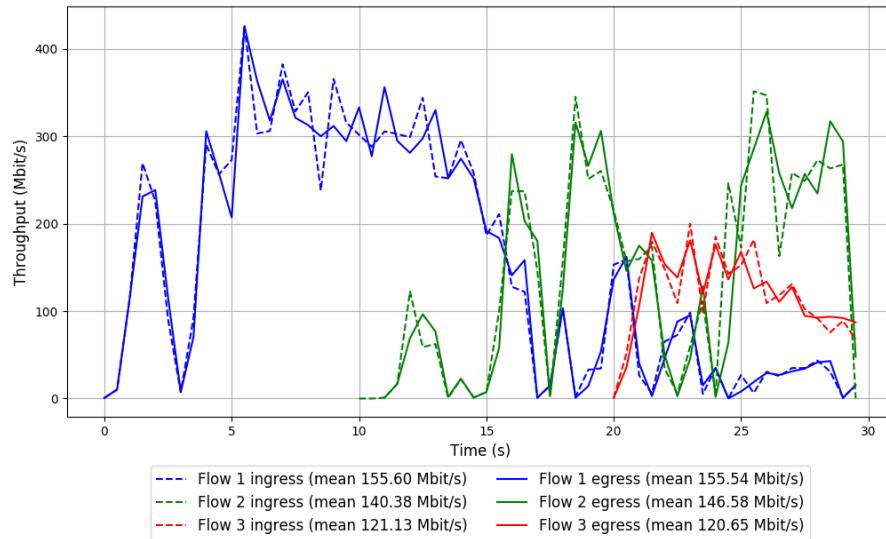
Run 8: Statistics of Verus

Start at: 2017-11-22 05:41:54

End at: 2017-11-22 05:42:24

```
# Below is generated by plot.py at 2017-11-22 08:17:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 286.77 Mbit/s
95th percentile per-packet one-way delay: 187.368 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 155.54 Mbit/s
95th percentile per-packet one-way delay: 101.849 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 146.58 Mbit/s
95th percentile per-packet one-way delay: 258.874 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 120.65 Mbit/s
95th percentile per-packet one-way delay: 178.635 ms
Loss rate: 0.39%
```

Run 8: Report of Verus — Data Link



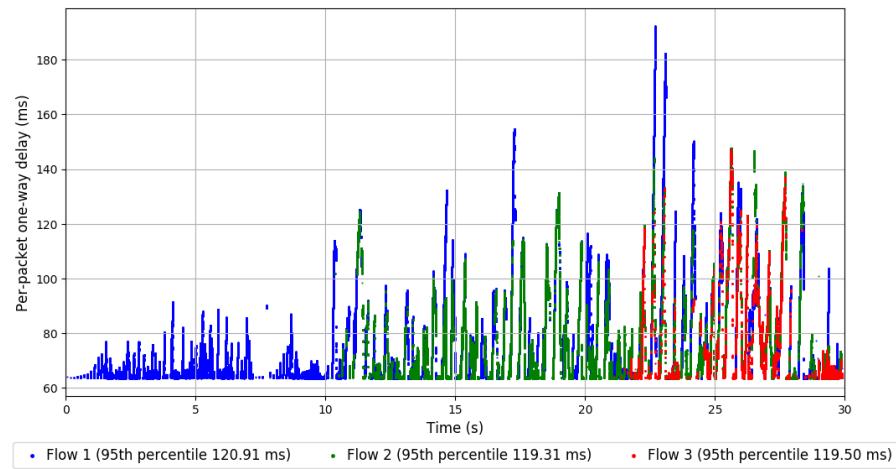
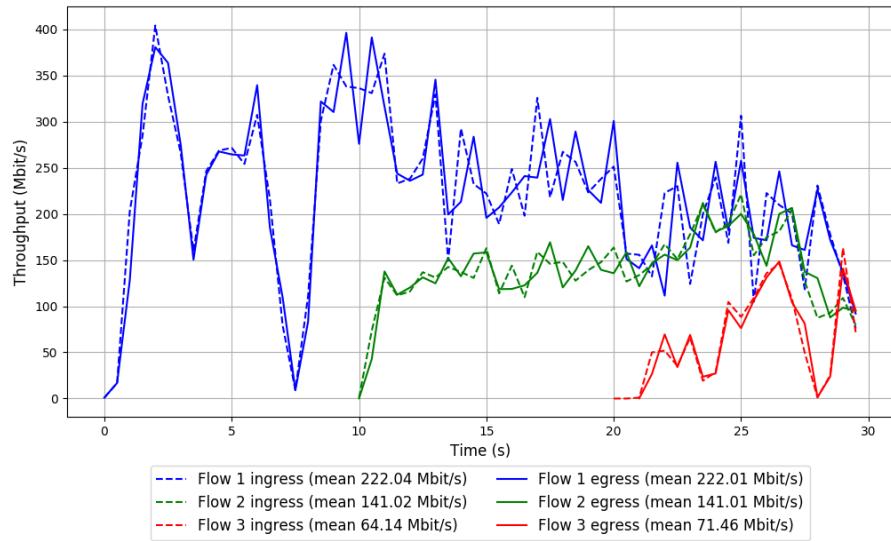
Run 9: Statistics of Verus

Start at: 2017-11-22 05:54:04

End at: 2017-11-22 05:54:34

```
# Below is generated by plot.py at 2017-11-22 08:20:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 336.65 Mbit/s
95th percentile per-packet one-way delay: 120.388 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 222.01 Mbit/s
95th percentile per-packet one-way delay: 120.907 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 141.01 Mbit/s
95th percentile per-packet one-way delay: 119.309 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 71.46 Mbit/s
95th percentile per-packet one-way delay: 119.501 ms
Loss rate: 0.01%
```

Run 9: Report of Verus — Data Link



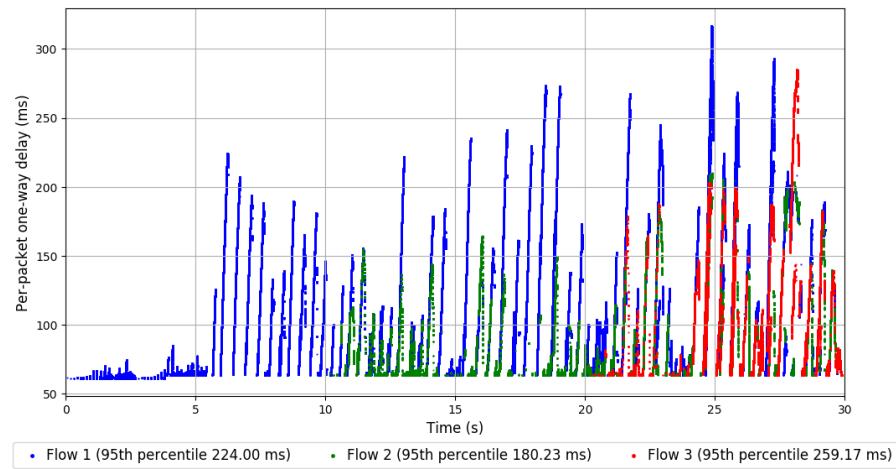
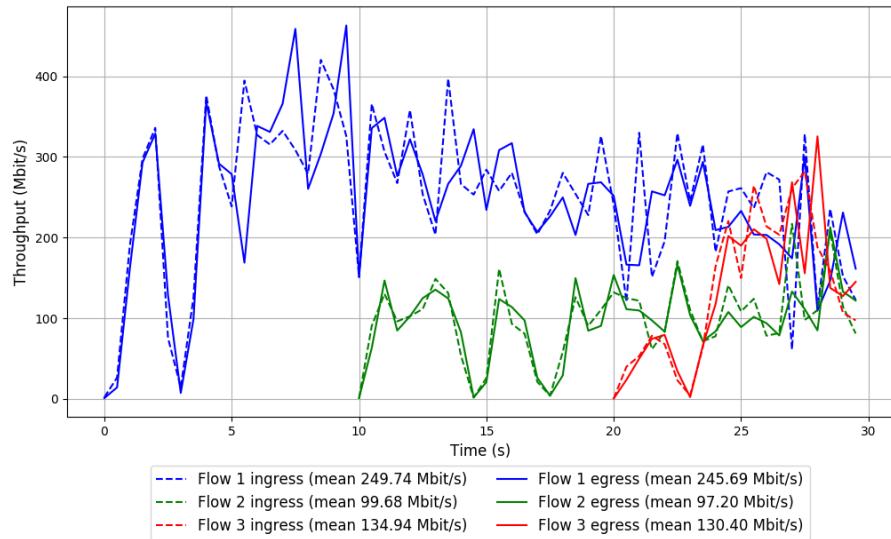
Run 10: Statistics of Verus

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

End at: 2017-11-22 06:06:41

```
# Below is generated by plot.py at 2017-11-22 08:21:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 352.81 Mbit/s
95th percentile per-packet one-way delay: 218.983 ms
Loss rate: 2.00%
-- Flow 1:
Average throughput: 245.69 Mbit/s
95th percentile per-packet one-way delay: 223.999 ms
Loss rate: 1.62%
-- Flow 2:
Average throughput: 97.20 Mbit/s
95th percentile per-packet one-way delay: 180.230 ms
Loss rate: 2.49%
-- Flow 3:
Average throughput: 130.40 Mbit/s
95th percentile per-packet one-way delay: 259.172 ms
Loss rate: 3.43%
```

Run 10: Report of Verus — Data Link



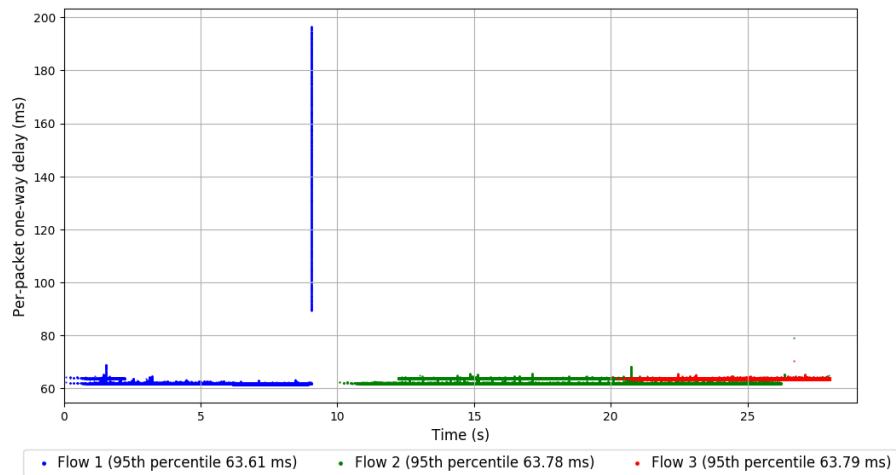
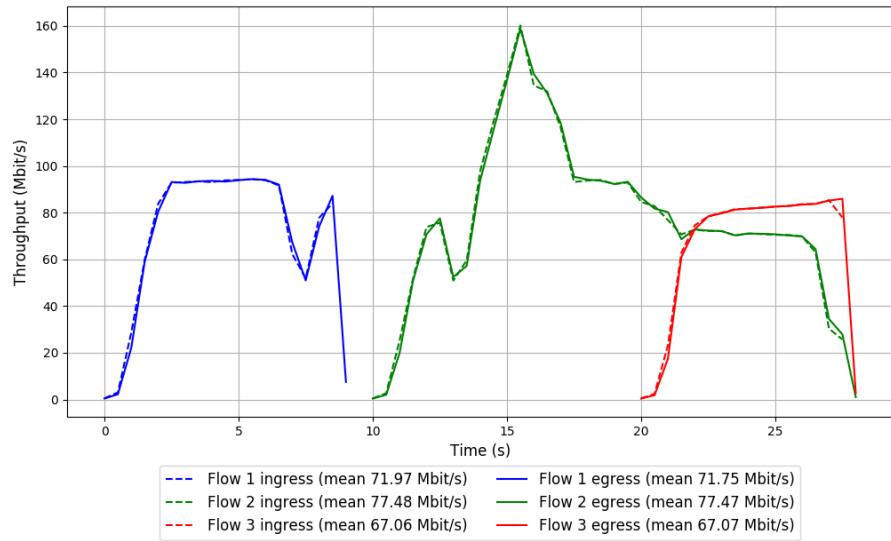
Run 1: Statistics of Copa

Start at: 2017-11-22 04:10:31

End at: 2017-11-22 04:11:01

```
# Below is generated by plot.py at 2017-11-22 08:21:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.83 Mbit/s
95th percentile per-packet one-way delay: 63.770 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 71.75 Mbit/s
95th percentile per-packet one-way delay: 63.606 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 77.47 Mbit/s
95th percentile per-packet one-way delay: 63.781 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 67.07 Mbit/s
95th percentile per-packet one-way delay: 63.792 ms
Loss rate: 0.02%
```

Run 1: Report of Copa — Data Link



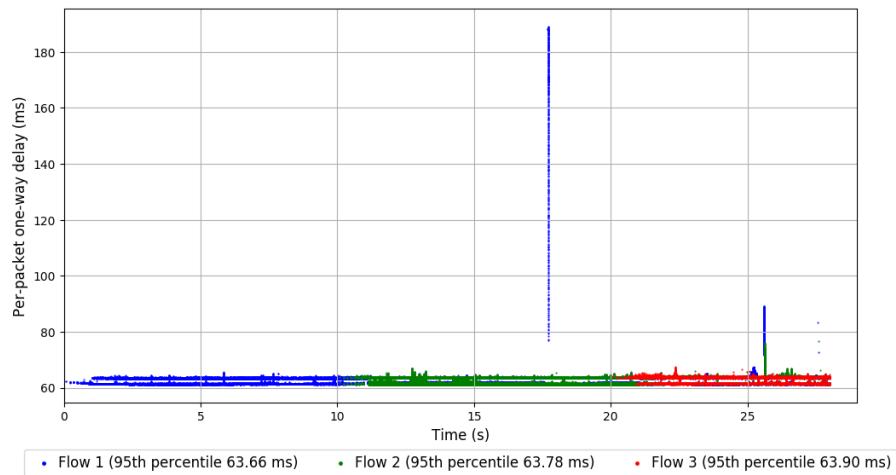
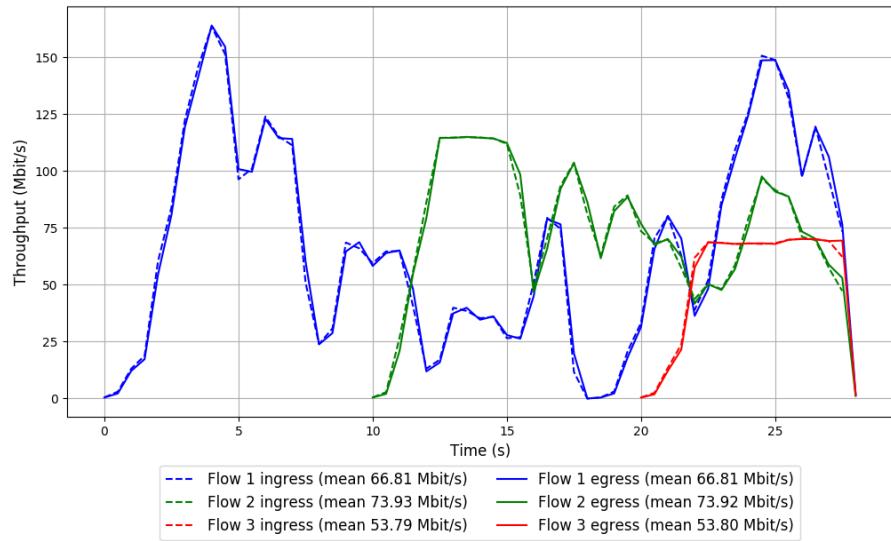
Run 2: Statistics of Copa

Start at: 2017-11-22 04:22:52

End at: 2017-11-22 04:23:22

```
# Below is generated by plot.py at 2017-11-22 08:21:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 129.51 Mbit/s
95th percentile per-packet one-way delay: 63.751 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 66.81 Mbit/s
95th percentile per-packet one-way delay: 63.665 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 73.92 Mbit/s
95th percentile per-packet one-way delay: 63.784 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 53.80 Mbit/s
95th percentile per-packet one-way delay: 63.895 ms
Loss rate: 0.02%
```

Run 2: Report of Copa — Data Link



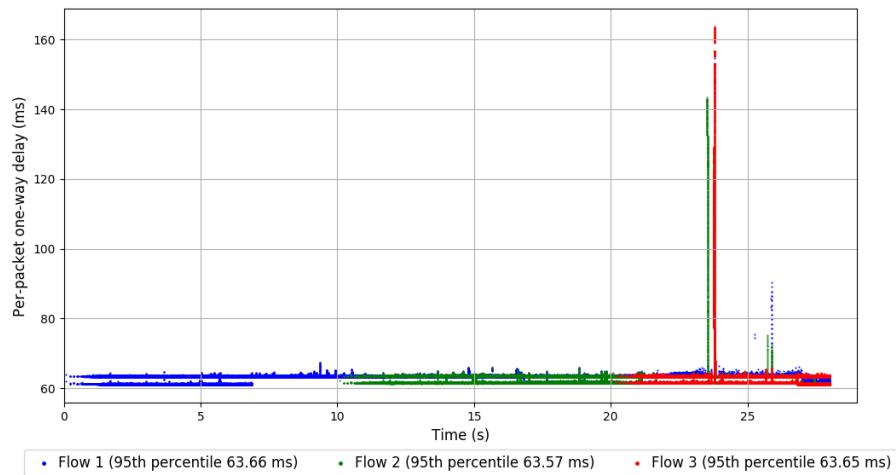
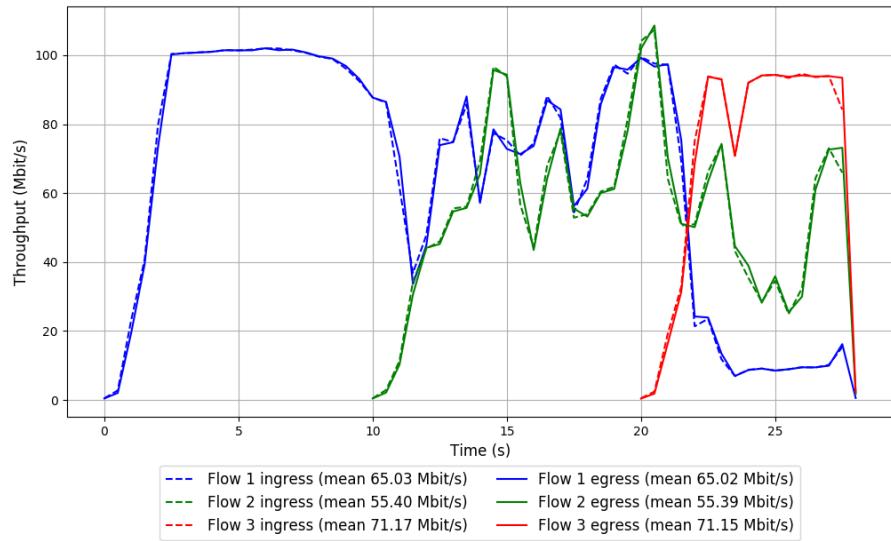
Run 3: Statistics of Copa

Start at: 2017-11-22 04:35:16

End at: 2017-11-22 04:35:46

```
# Below is generated by plot.py at 2017-11-22 08:21:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 120.75 Mbit/s
95th percentile per-packet one-way delay: 63.637 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 65.02 Mbit/s
95th percentile per-packet one-way delay: 63.657 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 55.39 Mbit/s
95th percentile per-packet one-way delay: 63.570 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 71.15 Mbit/s
95th percentile per-packet one-way delay: 63.648 ms
Loss rate: 0.02%
```

Run 3: Report of Copa — Data Link



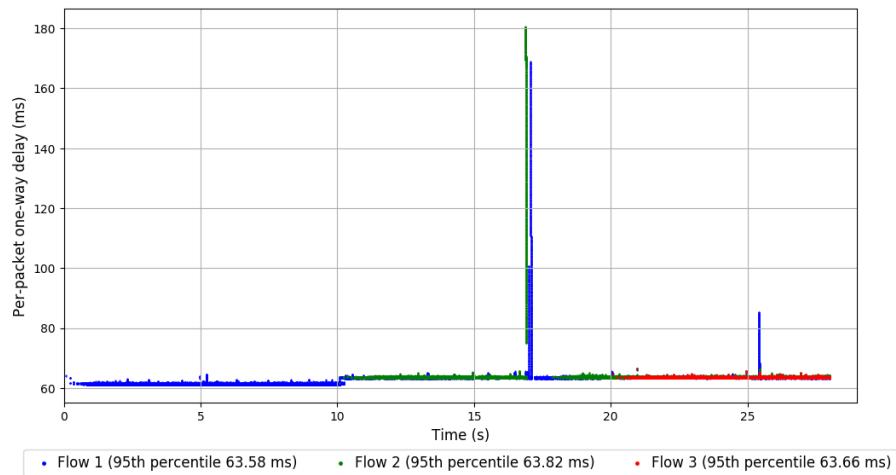
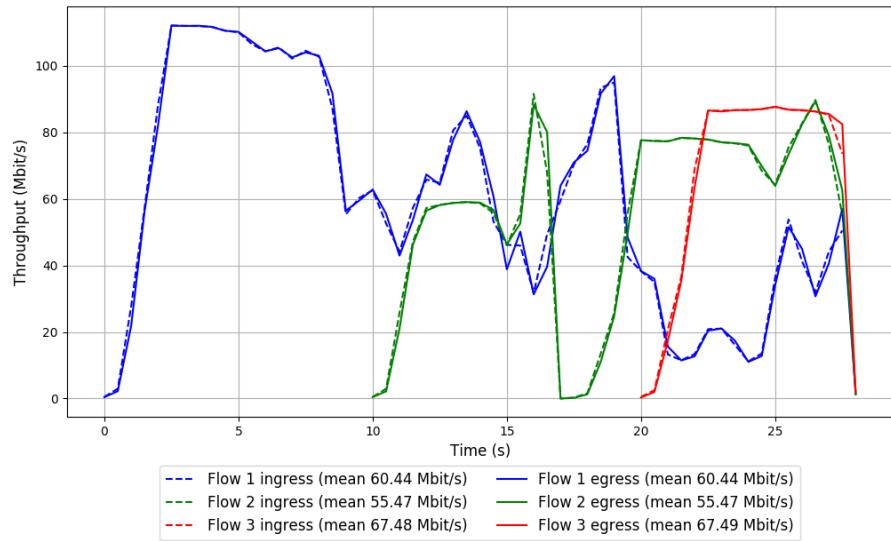
Run 4: Statistics of Copa

Start at: 2017-11-22 04:47:23

End at: 2017-11-22 04:47:53

```
# Below is generated by plot.py at 2017-11-22 08:21:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 115.18 Mbit/s
95th percentile per-packet one-way delay: 63.708 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.44 Mbit/s
95th percentile per-packet one-way delay: 63.577 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 55.47 Mbit/s
95th percentile per-packet one-way delay: 63.822 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 67.49 Mbit/s
95th percentile per-packet one-way delay: 63.657 ms
Loss rate: 0.00%
```

Run 4: Report of Copa — Data Link



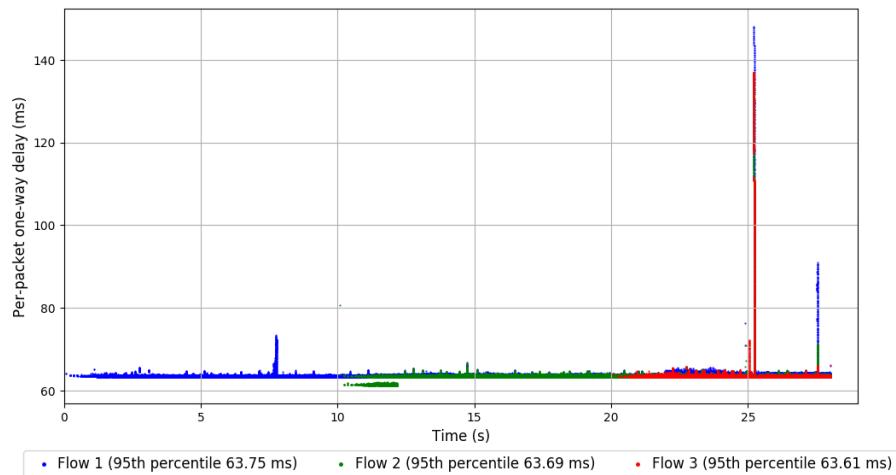
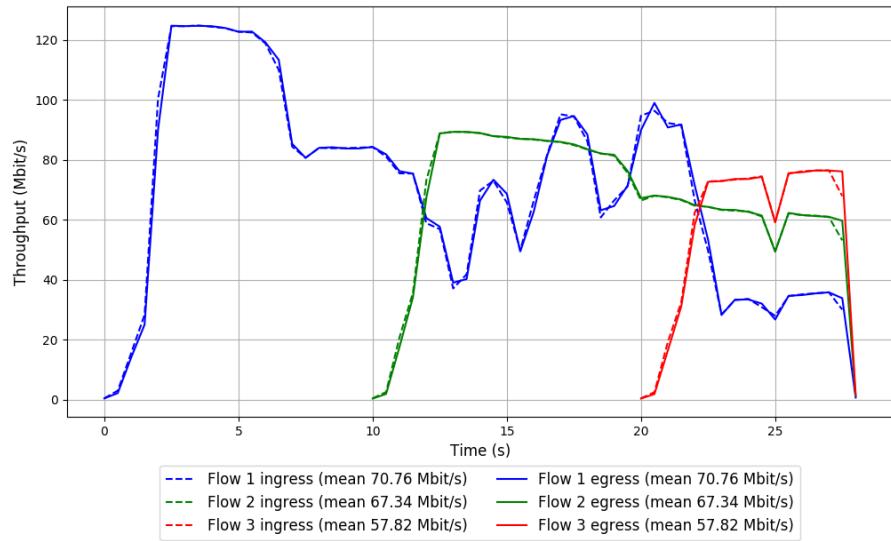
Run 5: Statistics of Copa

Start at: 2017-11-22 04:59:45

End at: 2017-11-22 05:00:15

```
# Below is generated by plot.py at 2017-11-22 08:21:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 130.39 Mbit/s
95th percentile per-packet one-way delay: 63.717 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 70.76 Mbit/s
95th percentile per-packet one-way delay: 63.754 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 67.34 Mbit/s
95th percentile per-packet one-way delay: 63.686 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 57.82 Mbit/s
95th percentile per-packet one-way delay: 63.606 ms
Loss rate: 0.01%
```

Run 5: Report of Copa — Data Link



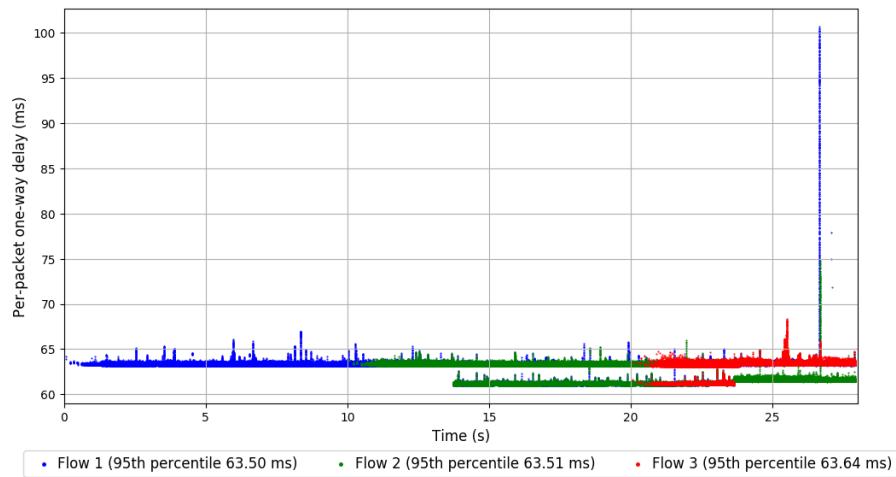
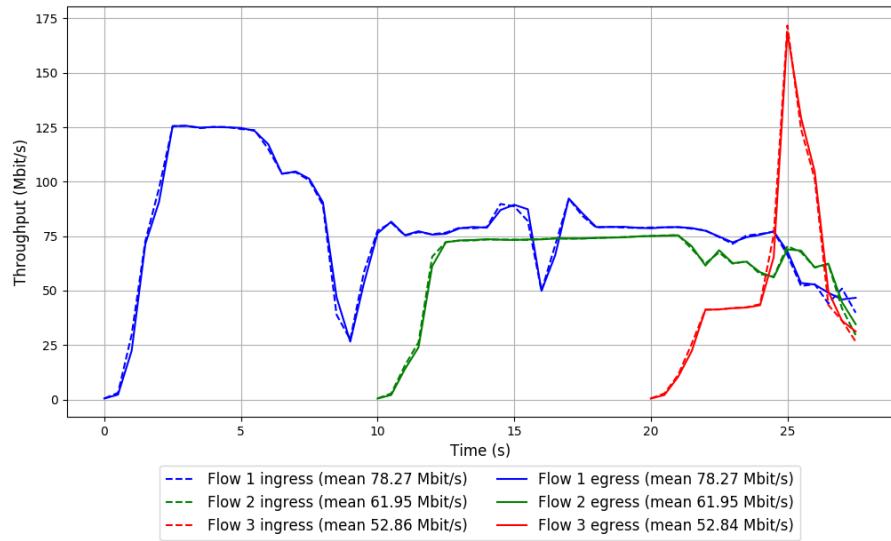
Run 6: Statistics of Copa

Start at: 2017-11-22 05:12:09

End at: 2017-11-22 05:12:39

```
# Below is generated by plot.py at 2017-11-22 08:22:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 132.86 Mbit/s
95th percentile per-packet one-way delay: 63.520 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 78.27 Mbit/s
95th percentile per-packet one-way delay: 63.496 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 61.95 Mbit/s
95th percentile per-packet one-way delay: 63.512 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 52.84 Mbit/s
95th percentile per-packet one-way delay: 63.638 ms
Loss rate: 0.00%
```

Run 6: Report of Copa — Data Link



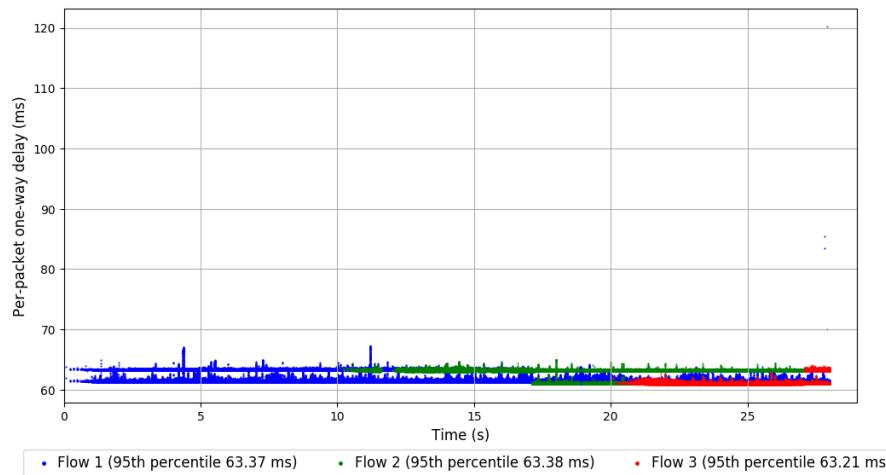
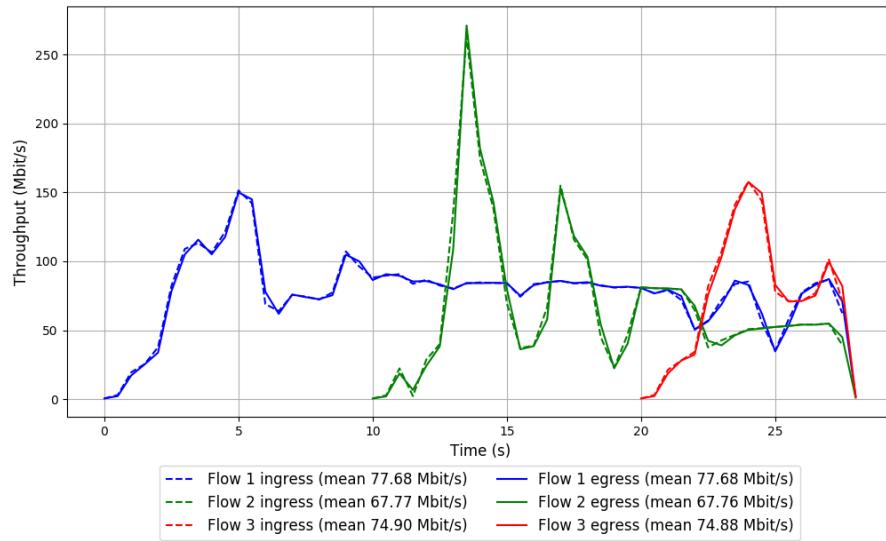
Run 7: Statistics of Copa

Start at: 2017-11-22 05:24:26

End at: 2017-11-22 05:24:56

```
# Below is generated by plot.py at 2017-11-22 08:22:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 142.38 Mbit/s
95th percentile per-packet one-way delay: 63.365 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 77.68 Mbit/s
95th percentile per-packet one-way delay: 63.368 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 67.76 Mbit/s
95th percentile per-packet one-way delay: 63.376 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 74.88 Mbit/s
95th percentile per-packet one-way delay: 63.206 ms
Loss rate: 0.01%
```

Run 7: Report of Copa — Data Link



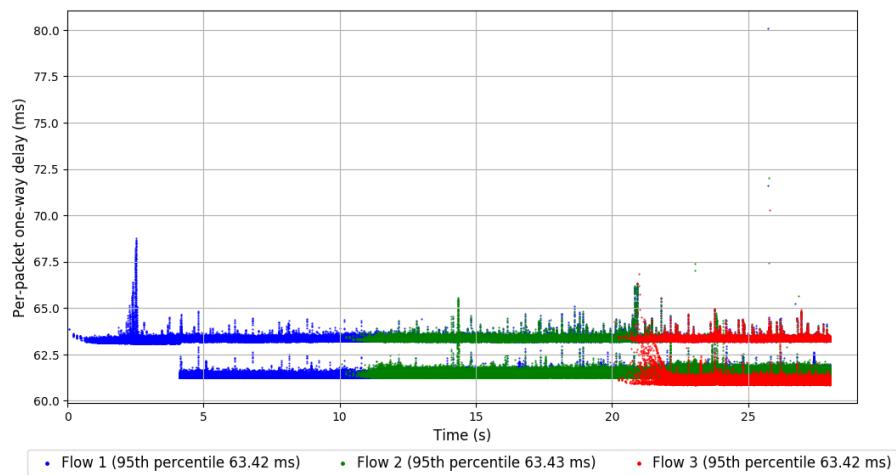
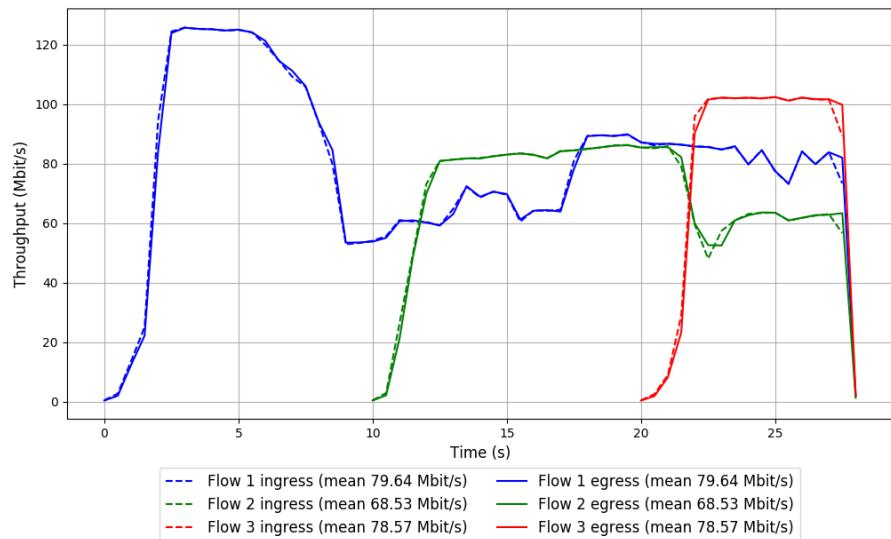
Run 8: Statistics of Copa

Start at: 2017-11-22 05:36:39

End at: 2017-11-22 05:37:09

```
# Below is generated by plot.py at 2017-11-22 08:24:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 145.90 Mbit/s
95th percentile per-packet one-way delay: 63.424 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 79.64 Mbit/s
95th percentile per-packet one-way delay: 63.422 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 68.53 Mbit/s
95th percentile per-packet one-way delay: 63.432 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 78.57 Mbit/s
95th percentile per-packet one-way delay: 63.417 ms
Loss rate: 0.01%
```

Run 8: Report of Copa — Data Link



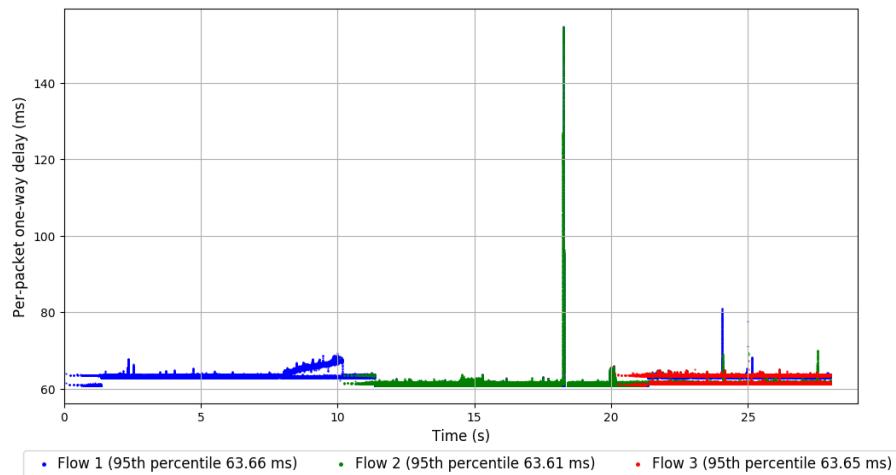
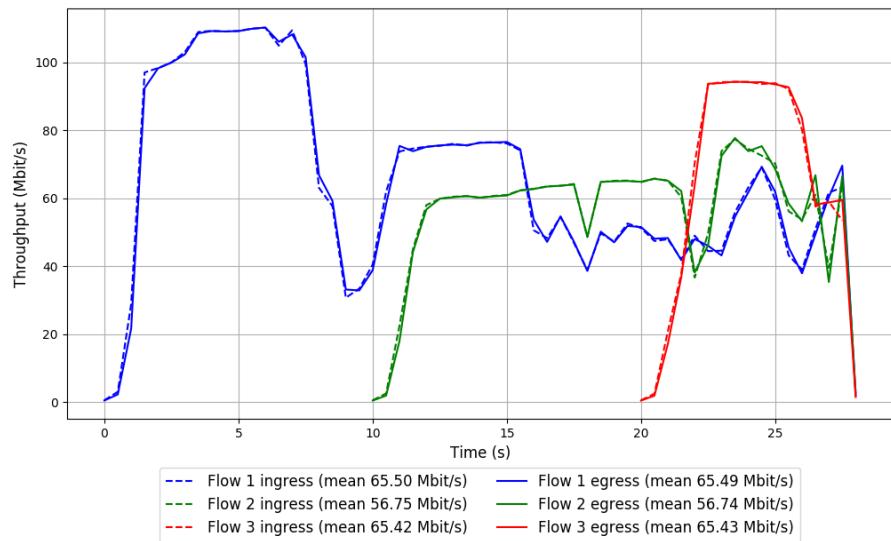
Run 9: Statistics of Copa

Start at: 2017-11-22 05:48:52

End at: 2017-11-22 05:49:22

```
# Below is generated by plot.py at 2017-11-22 08:24:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 120.46 Mbit/s
95th percentile per-packet one-way delay: 63.641 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 65.49 Mbit/s
95th percentile per-packet one-way delay: 63.660 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 56.74 Mbit/s
95th percentile per-packet one-way delay: 63.614 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 65.43 Mbit/s
95th percentile per-packet one-way delay: 63.647 ms
Loss rate: 0.00%
```

Run 9: Report of Copa — Data Link



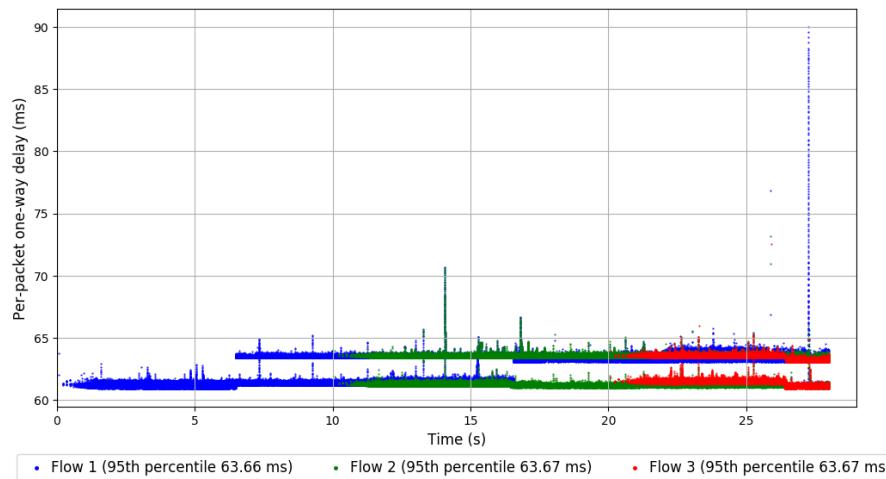
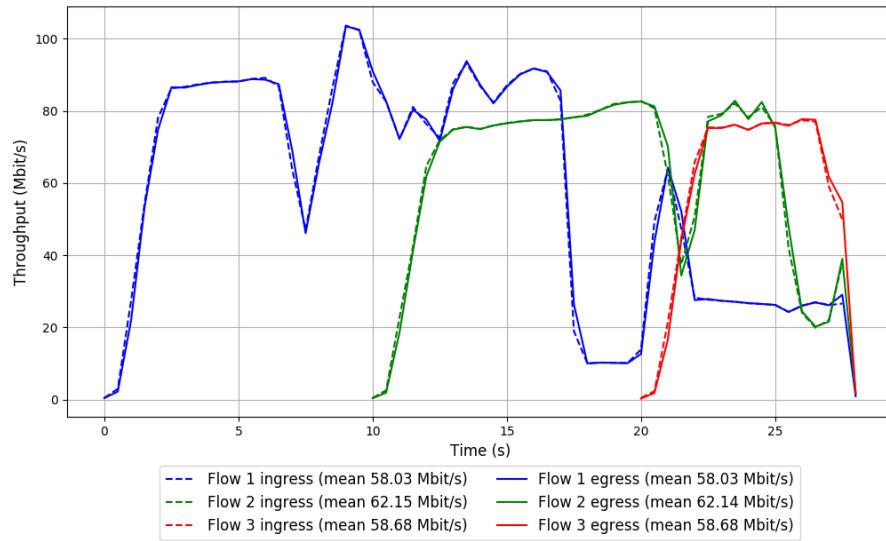
Run 10: Statistics of Copa

Start at: 2017-11-22 06:00:57

End at: 2017-11-22 06:01:27

```
# Below is generated by plot.py at 2017-11-22 08:24:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 114.53 Mbit/s
95th percentile per-packet one-way delay: 63.664 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 58.03 Mbit/s
95th percentile per-packet one-way delay: 63.656 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 62.14 Mbit/s
95th percentile per-packet one-way delay: 63.669 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 58.68 Mbit/s
95th percentile per-packet one-way delay: 63.670 ms
Loss rate: 0.01%
```

Run 10: Report of Copa — Data Link



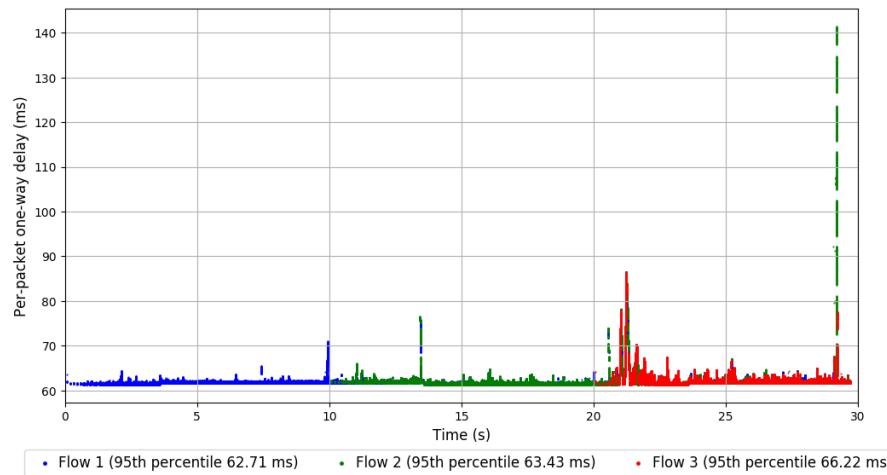
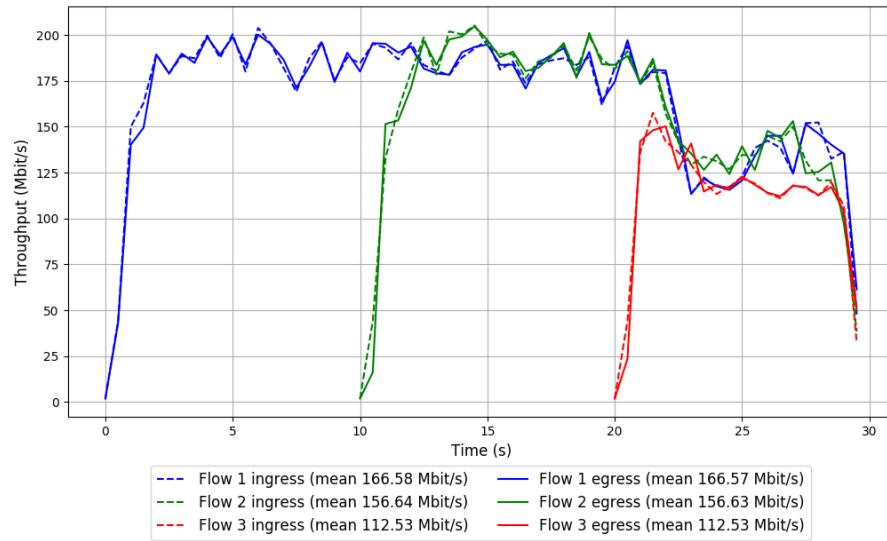
Run 1: Statistics of Indigo

Start at: 2017-11-22 04:13:51

End at: 2017-11-22 04:14:21

```
# Below is generated by plot.py at 2017-11-22 08:26:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 306.90 Mbit/s
95th percentile per-packet one-way delay: 63.252 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 166.57 Mbit/s
95th percentile per-packet one-way delay: 62.707 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 156.63 Mbit/s
95th percentile per-packet one-way delay: 63.432 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 112.53 Mbit/s
95th percentile per-packet one-way delay: 66.222 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo — Data Link



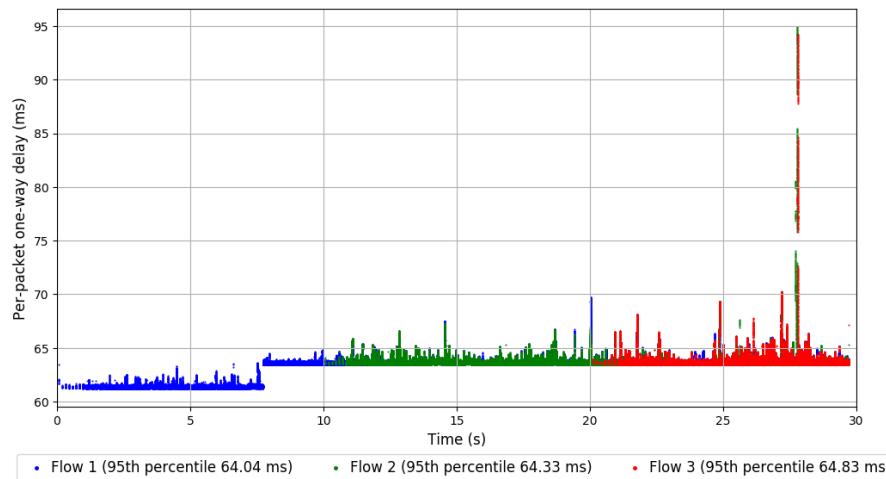
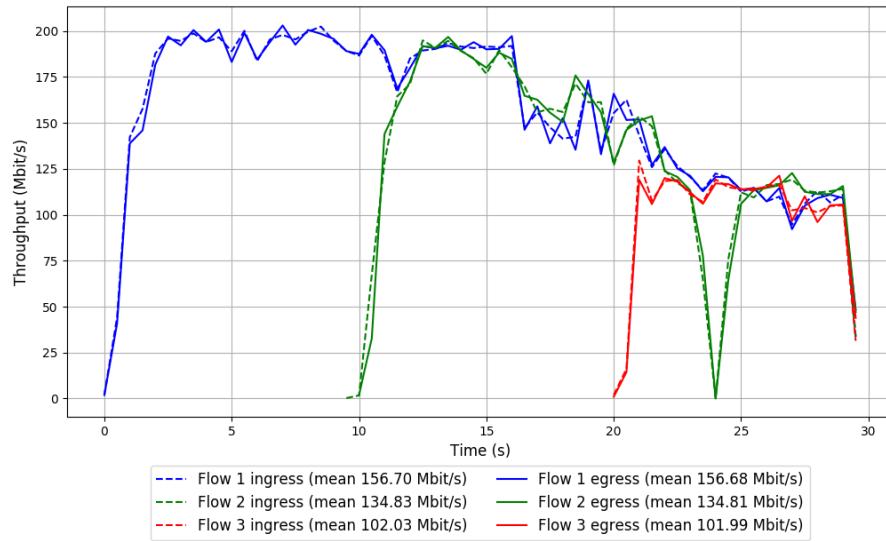
Run 2: Statistics of Indigo

Start at: 2017-11-22 04:26:17

End at: 2017-11-22 04:26:47

```
# Below is generated by plot.py at 2017-11-22 08:26:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 278.92 Mbit/s
95th percentile per-packet one-way delay: 64.218 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 156.68 Mbit/s
95th percentile per-packet one-way delay: 64.039 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 134.81 Mbit/s
95th percentile per-packet one-way delay: 64.335 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 101.99 Mbit/s
95th percentile per-packet one-way delay: 64.826 ms
Loss rate: 0.03%
```

Run 2: Report of Indigo — Data Link



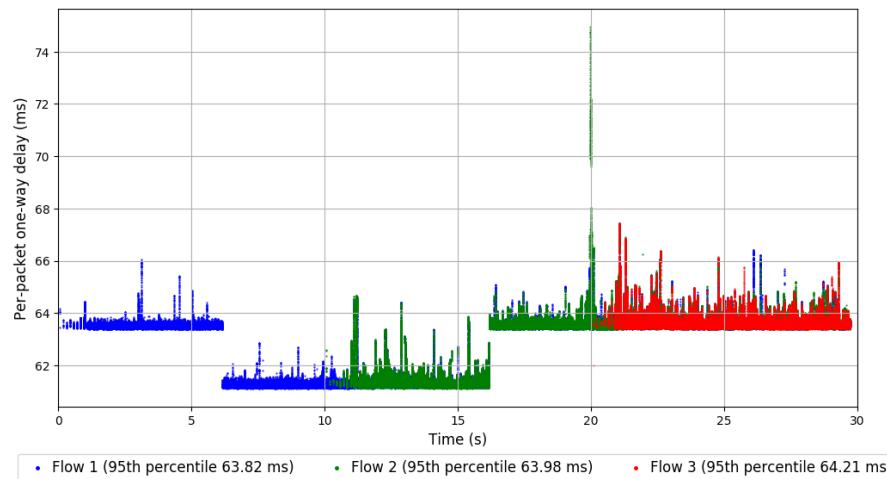
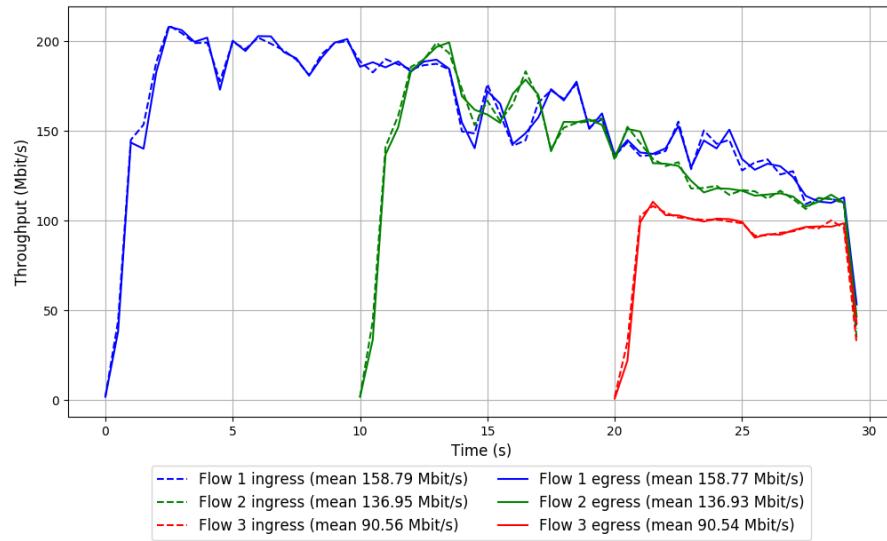
Run 3: Statistics of Indigo

Start at: 2017-11-22 04:38:39

End at: 2017-11-22 04:39:09

```
# Below is generated by plot.py at 2017-11-22 08:26:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 278.86 Mbit/s
95th percentile per-packet one-way delay: 63.932 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 158.77 Mbit/s
95th percentile per-packet one-way delay: 63.817 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 136.93 Mbit/s
95th percentile per-packet one-way delay: 63.982 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 90.54 Mbit/s
95th percentile per-packet one-way delay: 64.212 ms
Loss rate: 0.01%
```

Run 3: Report of Indigo — Data Link



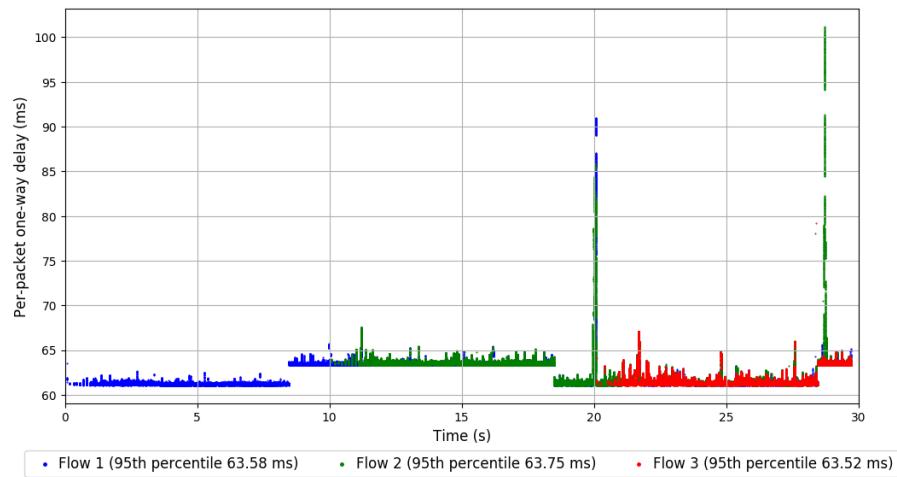
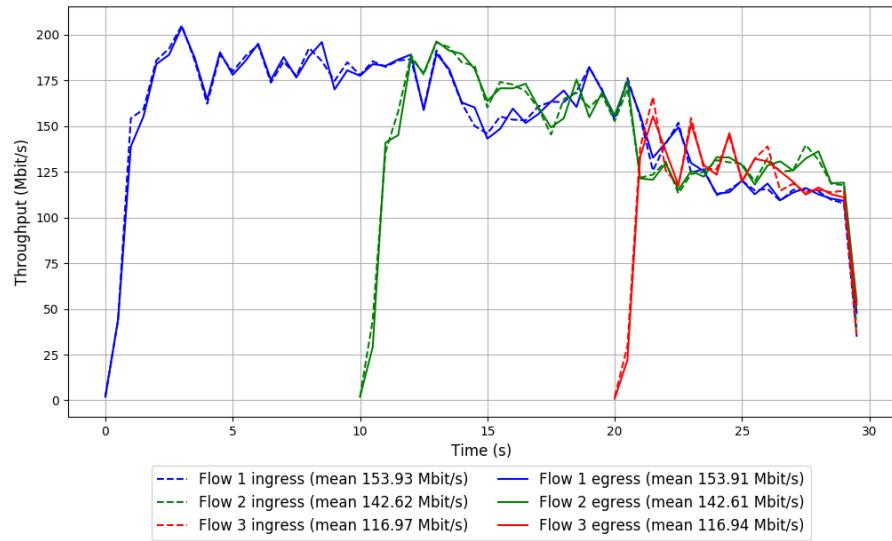
Run 4: Statistics of Indigo

Start at: 2017-11-22 04:50:46

End at: 2017-11-22 04:51:16

```
# Below is generated by plot.py at 2017-11-22 08:27:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 286.28 Mbit/s
95th percentile per-packet one-way delay: 63.628 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 153.91 Mbit/s
95th percentile per-packet one-way delay: 63.580 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 142.61 Mbit/s
95th percentile per-packet one-way delay: 63.747 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 116.94 Mbit/s
95th percentile per-packet one-way delay: 63.521 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo — Data Link



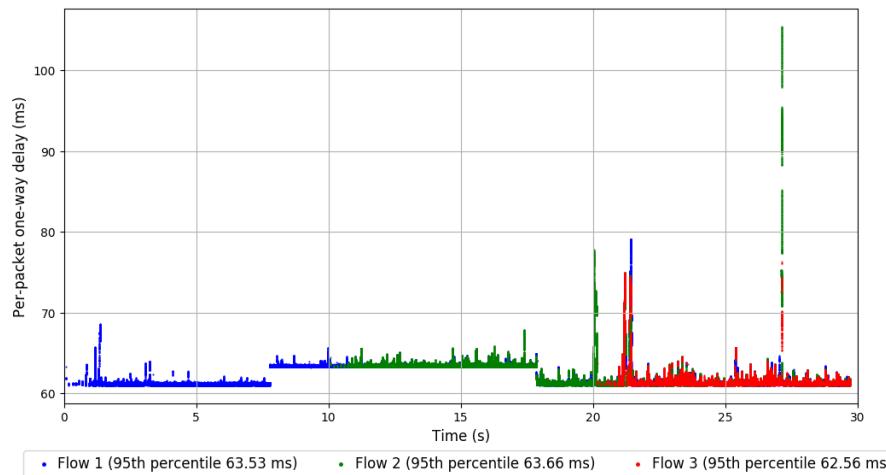
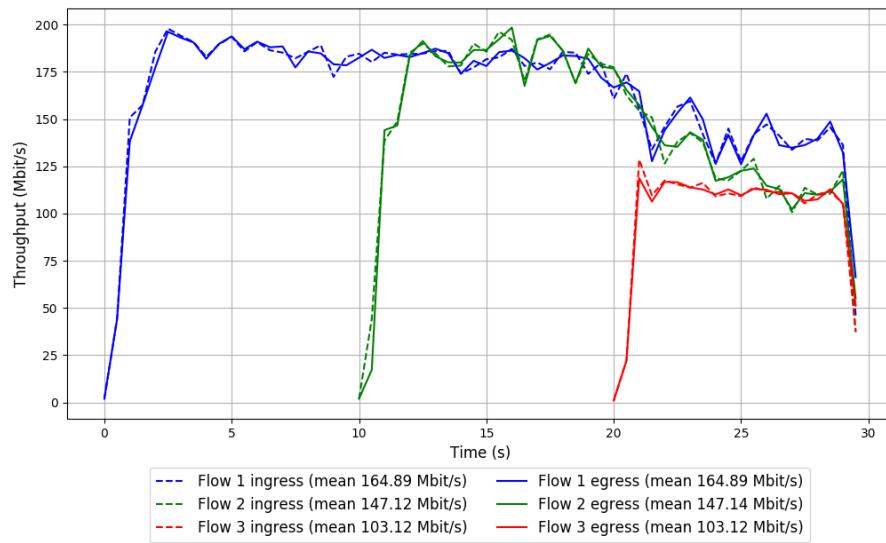
Run 5: Statistics of Indigo

Start at: 2017-11-22 05:03:07

End at: 2017-11-22 05:03:37

```
# Below is generated by plot.py at 2017-11-22 08:28:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 295.54 Mbit/s
95th percentile per-packet one-way delay: 63.559 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 164.89 Mbit/s
95th percentile per-packet one-way delay: 63.528 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 147.14 Mbit/s
95th percentile per-packet one-way delay: 63.655 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 103.12 Mbit/s
95th percentile per-packet one-way delay: 62.561 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo — Data Link



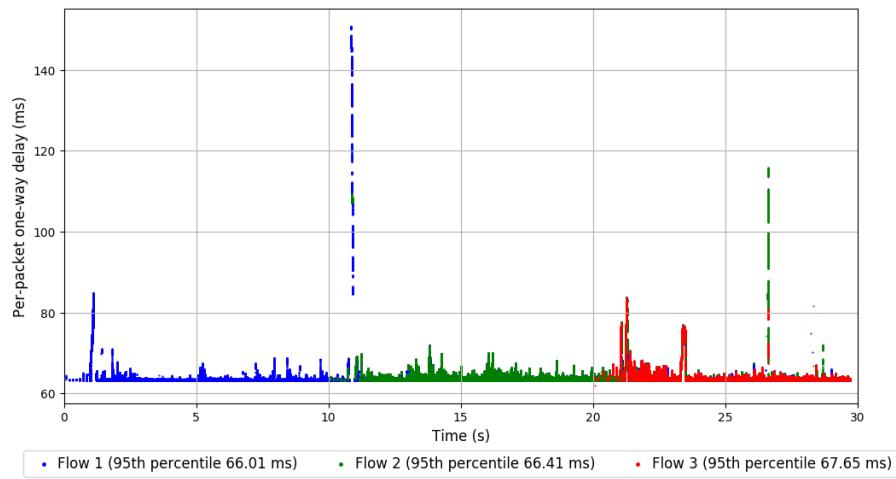
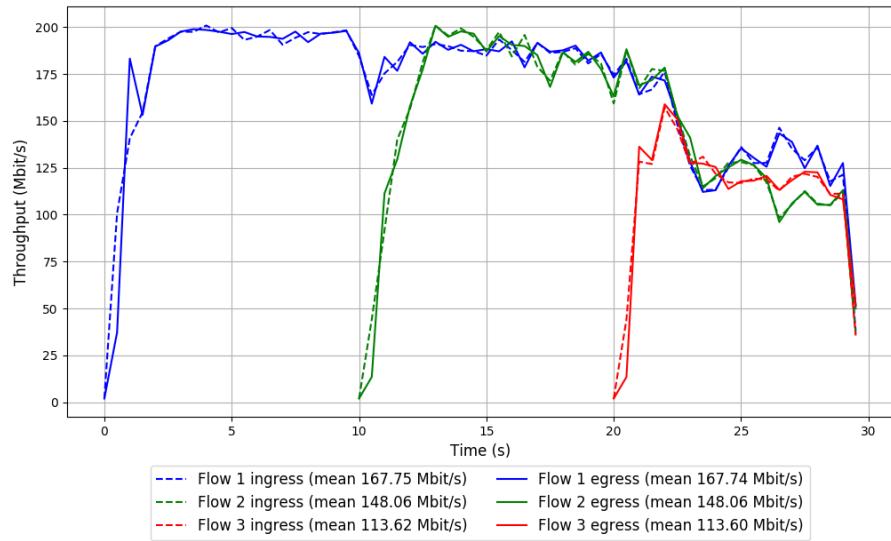
Run 6: Statistics of Indigo

Start at: 2017-11-22 05:15:31

End at: 2017-11-22 05:16:01

```
# Below is generated by plot.py at 2017-11-22 08:29:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 302.73 Mbit/s
95th percentile per-packet one-way delay: 66.322 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 167.74 Mbit/s
95th percentile per-packet one-way delay: 66.012 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 148.06 Mbit/s
95th percentile per-packet one-way delay: 66.407 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 113.60 Mbit/s
95th percentile per-packet one-way delay: 67.652 ms
Loss rate: 0.00%
```

Run 6: Report of Indigo — Data Link



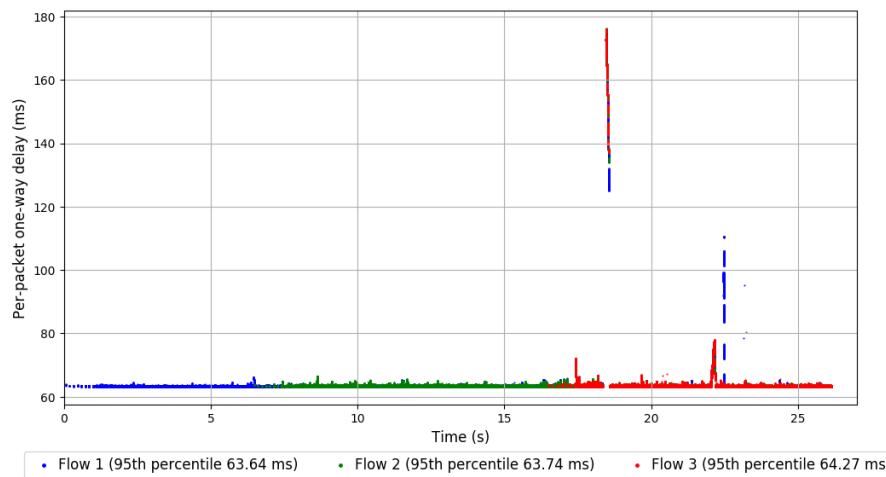
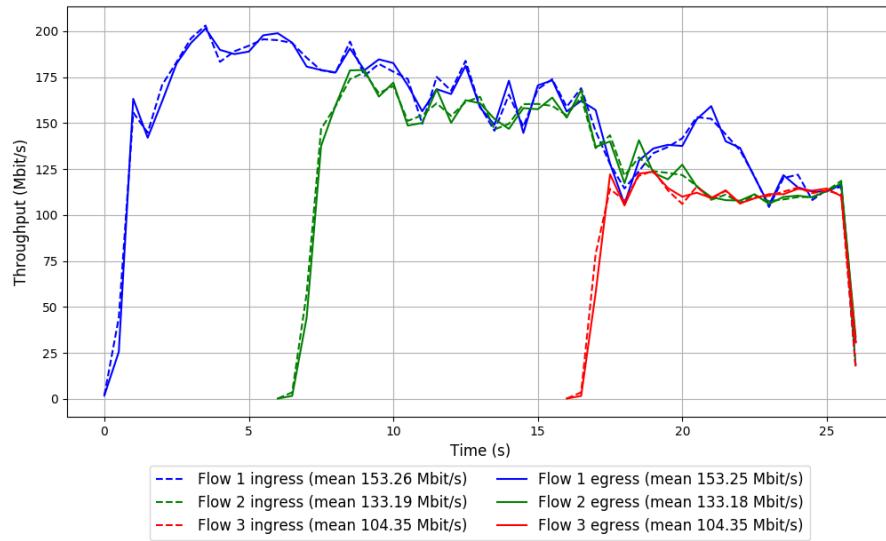
Run 7: Statistics of Indigo

Start at: 2017-11-22 05:27:50

End at: 2017-11-22 05:28:20

```
# Below is generated by plot.py at 2017-11-22 08:29:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 292.28 Mbit/s
95th percentile per-packet one-way delay: 63.716 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 153.25 Mbit/s
95th percentile per-packet one-way delay: 63.637 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 133.18 Mbit/s
95th percentile per-packet one-way delay: 63.738 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 104.35 Mbit/s
95th percentile per-packet one-way delay: 64.272 ms
Loss rate: 0.00%
```

Run 7: Report of Indigo — Data Link



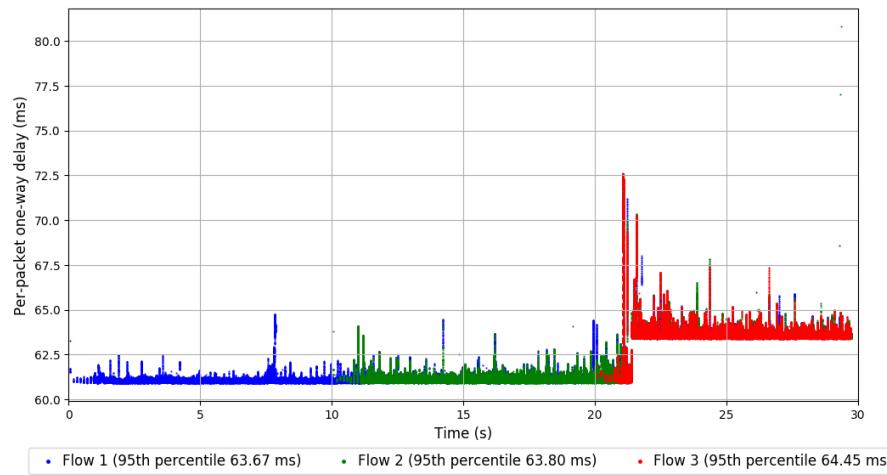
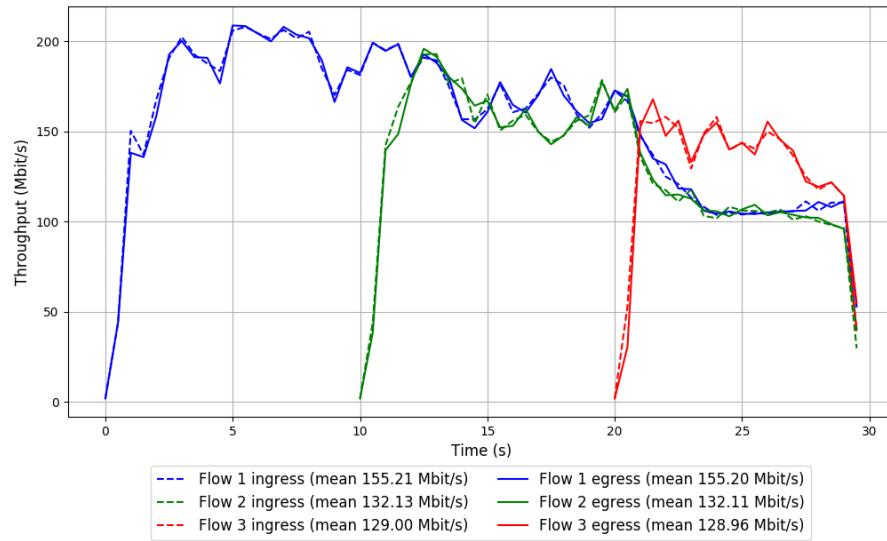
Run 8: Statistics of Indigo

Start at: 2017-11-22 05:40:03

End at: 2017-11-22 05:40:33

```
# Below is generated by plot.py at 2017-11-22 08:29:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 284.60 Mbit/s
95th percentile per-packet one-way delay: 63.834 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 155.20 Mbit/s
95th percentile per-packet one-way delay: 63.670 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 132.11 Mbit/s
95th percentile per-packet one-way delay: 63.797 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 128.96 Mbit/s
95th percentile per-packet one-way delay: 64.448 ms
Loss rate: 0.01%
```

Run 8: Report of Indigo — Data Link



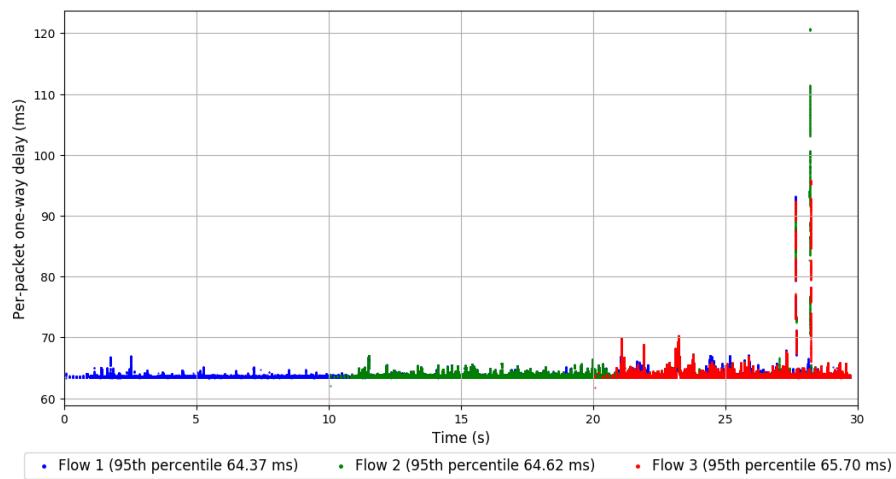
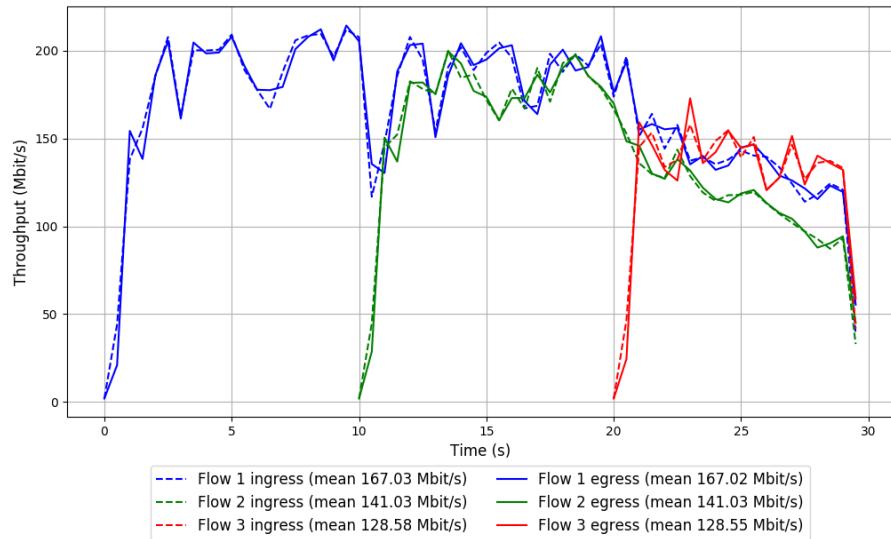
Run 9: Statistics of Indigo

Start at: 2017-11-22 05:52:14

End at: 2017-11-22 05:52:44

```
# Below is generated by plot.py at 2017-11-22 08:31:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 302.27 Mbit/s
95th percentile per-packet one-way delay: 64.624 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 167.02 Mbit/s
95th percentile per-packet one-way delay: 64.371 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 141.03 Mbit/s
95th percentile per-packet one-way delay: 64.624 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 128.55 Mbit/s
95th percentile per-packet one-way delay: 65.699 ms
Loss rate: 0.00%
```

Run 9: Report of Indigo — Data Link



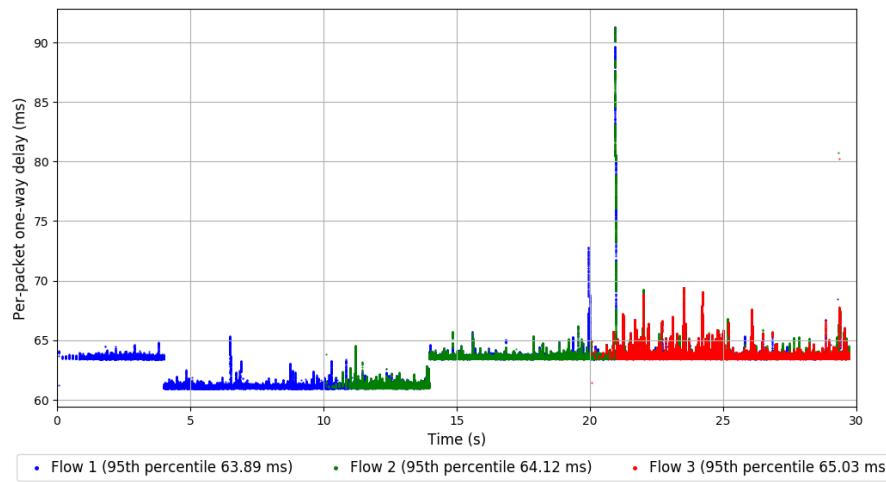
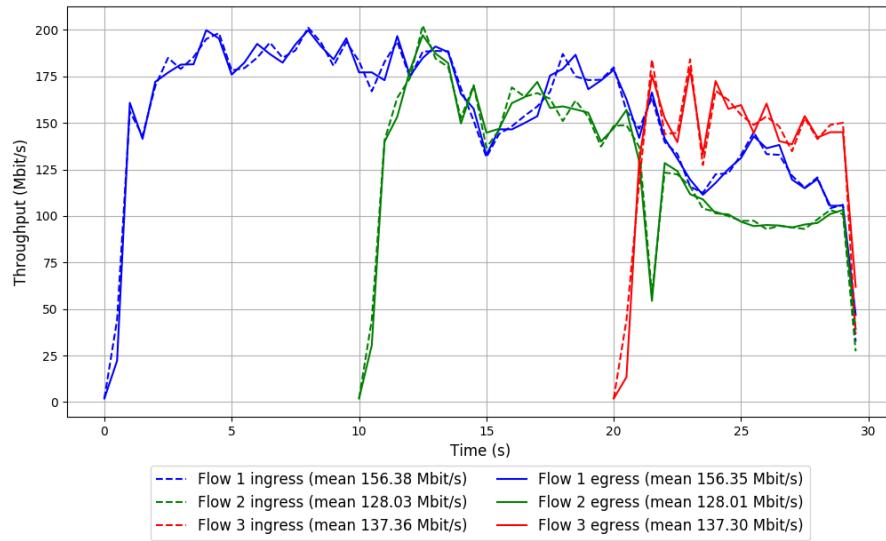
Run 10: Statistics of Indigo

Start at: 2017-11-22 06:04:21

End at: 2017-11-22 06:04:51

```
# Below is generated by plot.py at 2017-11-22 08:31:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 285.68 Mbit/s
95th percentile per-packet one-way delay: 64.140 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 156.35 Mbit/s
95th percentile per-packet one-way delay: 63.886 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 128.01 Mbit/s
95th percentile per-packet one-way delay: 64.116 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 137.30 Mbit/s
95th percentile per-packet one-way delay: 65.035 ms
Loss rate: 0.01%
```

Run 10: Report of Indigo — Data Link

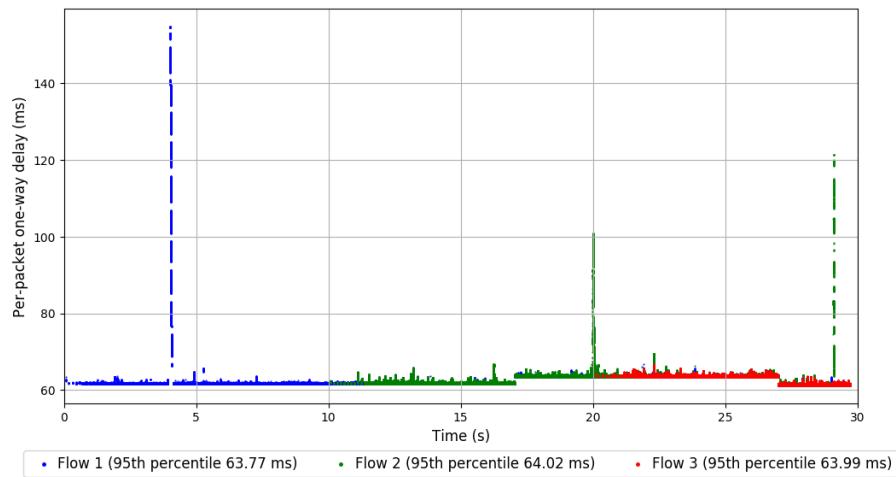
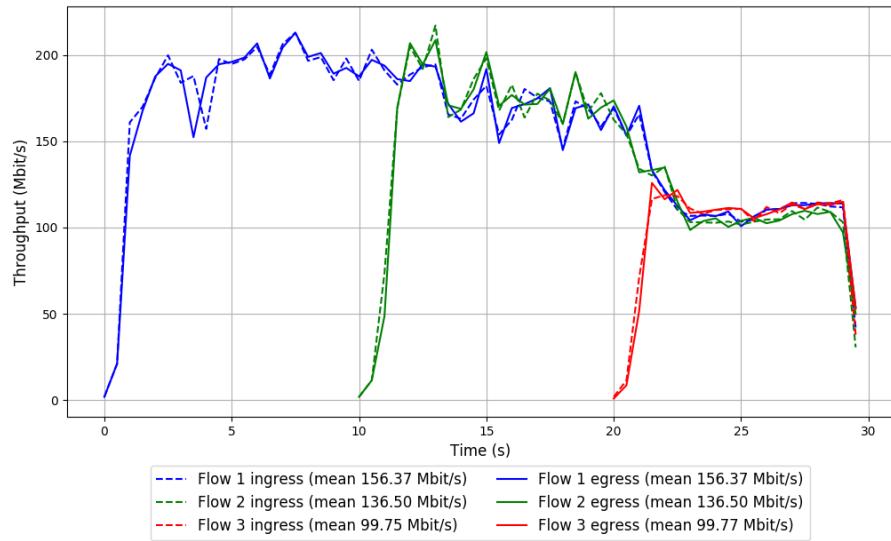


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-22 04:21:08
End at: 2017-11-22 04:21:38

# Below is generated by plot.py at 2017-11-22 08:31:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 279.17 Mbit/s
95th percentile per-packet one-way delay: 63.870 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 156.37 Mbit/s
95th percentile per-packet one-way delay: 63.765 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 136.50 Mbit/s
95th percentile per-packet one-way delay: 64.015 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 99.77 Mbit/s
95th percentile per-packet one-way delay: 63.992 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-calib — Data Link



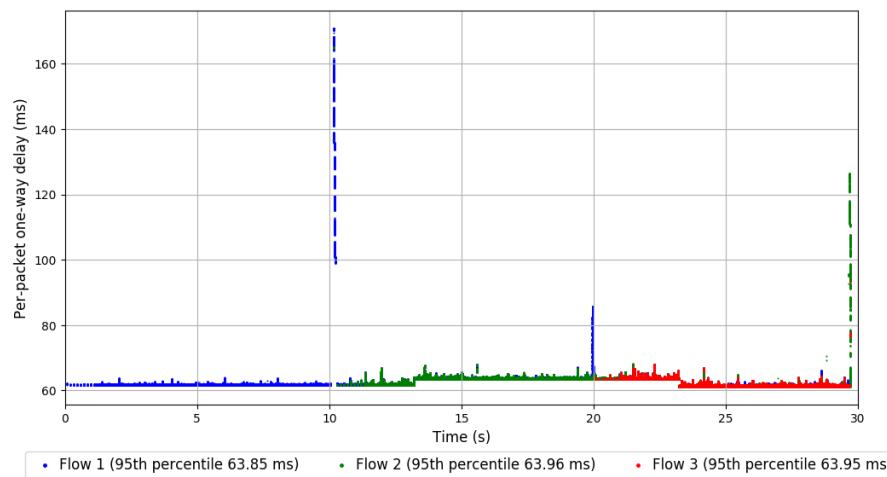
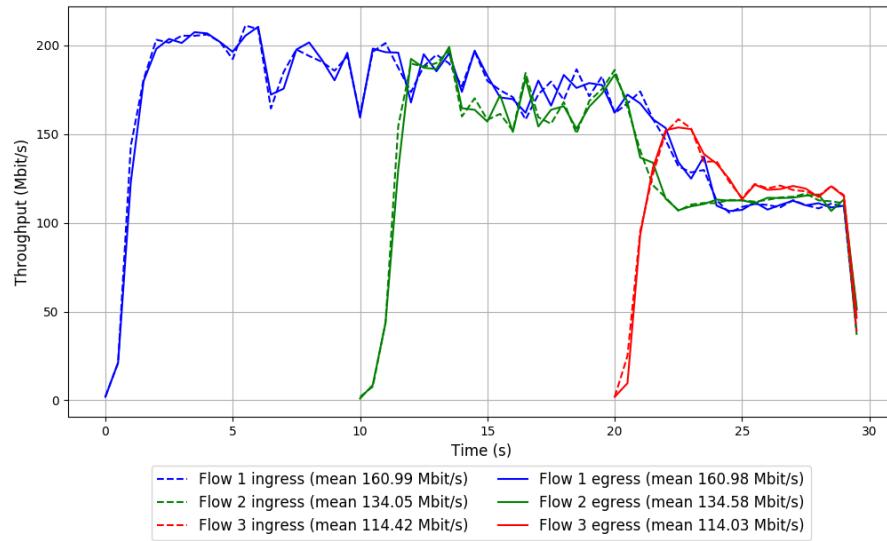
Run 2: Statistics of Indigo-calib

Start at: 2017-11-22 04:33:32

End at: 2017-11-22 04:34:02

```
# Below is generated by plot.py at 2017-11-22 08:33:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 286.87 Mbit/s
95th percentile per-packet one-way delay: 63.896 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 160.98 Mbit/s
95th percentile per-packet one-way delay: 63.850 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 134.58 Mbit/s
95th percentile per-packet one-way delay: 63.963 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 114.03 Mbit/s
95th percentile per-packet one-way delay: 63.948 ms
Loss rate: 0.32%
```

Run 2: Report of Indigo-calib — Data Link



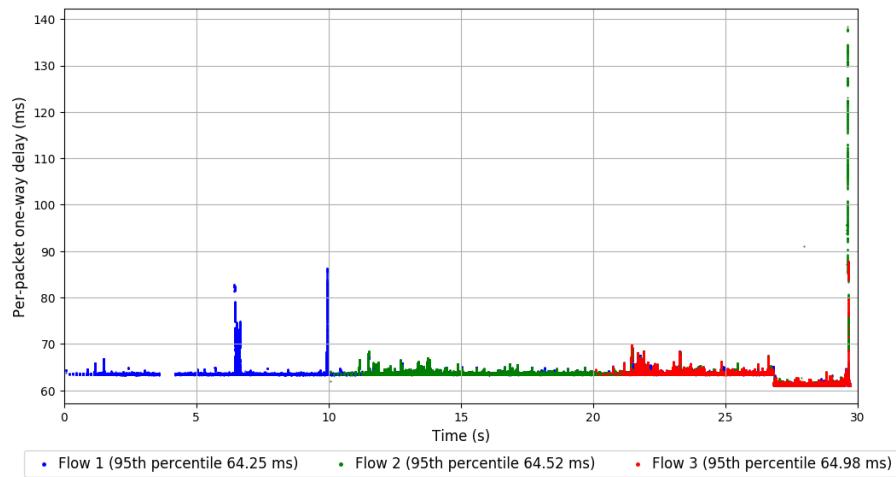
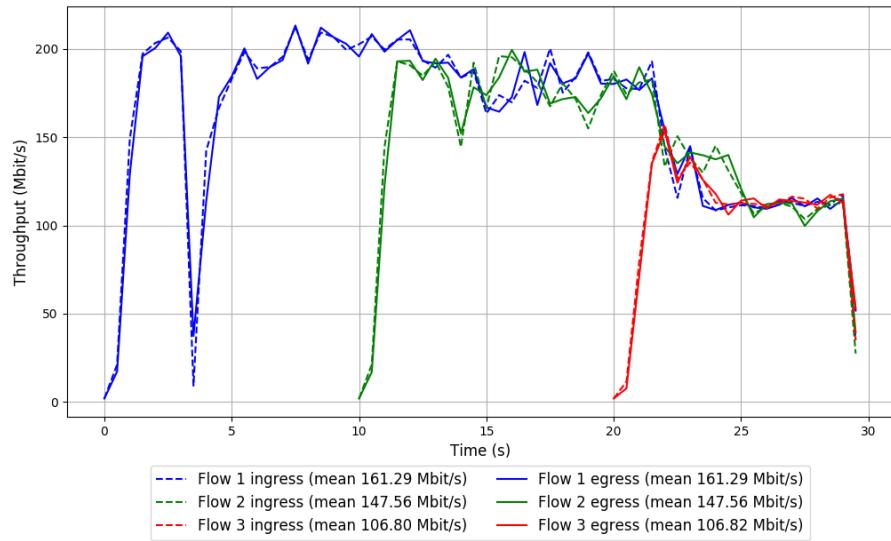
Run 3: Statistics of Indigo-calib

Start at: 2017-11-22 04:45:38

End at: 2017-11-22 04:46:08

```
# Below is generated by plot.py at 2017-11-22 08:33:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 293.72 Mbit/s
95th percentile per-packet one-way delay: 64.429 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 161.29 Mbit/s
95th percentile per-packet one-way delay: 64.253 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 147.56 Mbit/s
95th percentile per-packet one-way delay: 64.517 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 106.82 Mbit/s
95th percentile per-packet one-way delay: 64.982 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-calib — Data Link



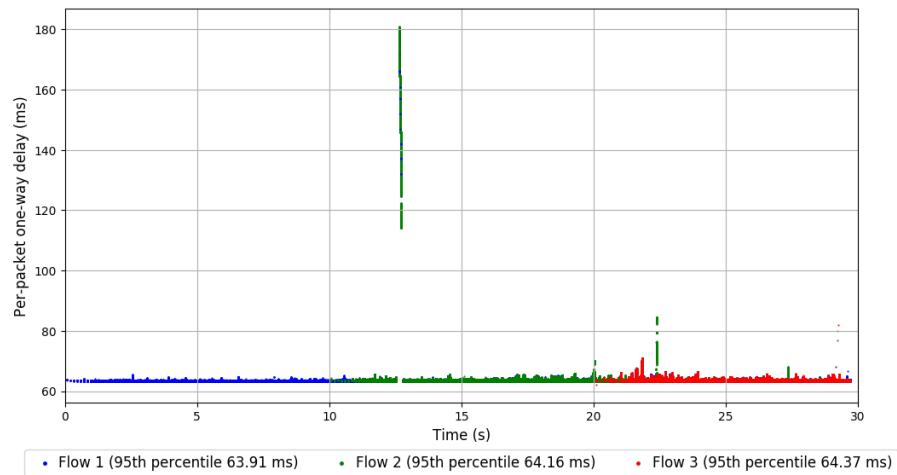
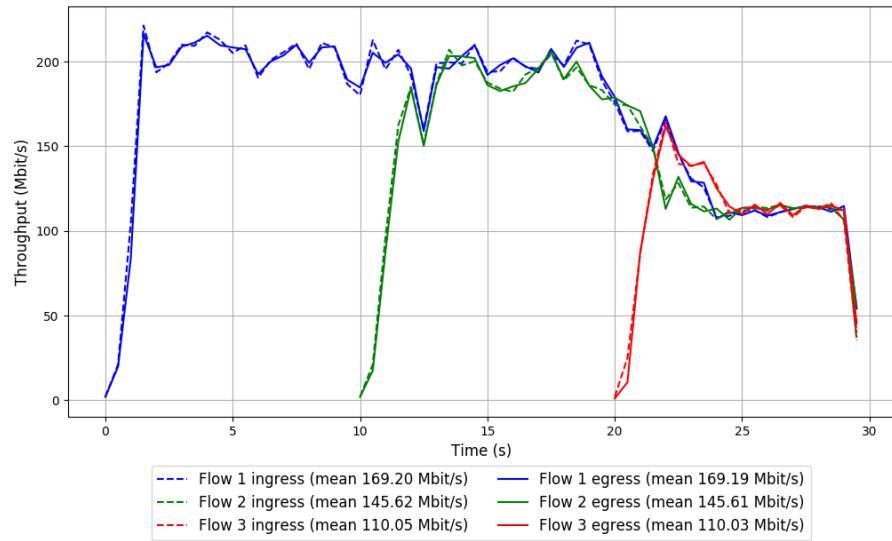
Run 4: Statistics of Indigo-calib

Start at: 2017-11-22 04:57:59

End at: 2017-11-22 04:58:29

```
# Below is generated by plot.py at 2017-11-22 08:34:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 301.28 Mbit/s
95th percentile per-packet one-way delay: 64.044 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 169.19 Mbit/s
95th percentile per-packet one-way delay: 63.907 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 145.61 Mbit/s
95th percentile per-packet one-way delay: 64.155 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 110.03 Mbit/s
95th percentile per-packet one-way delay: 64.368 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo-calib — Data Link

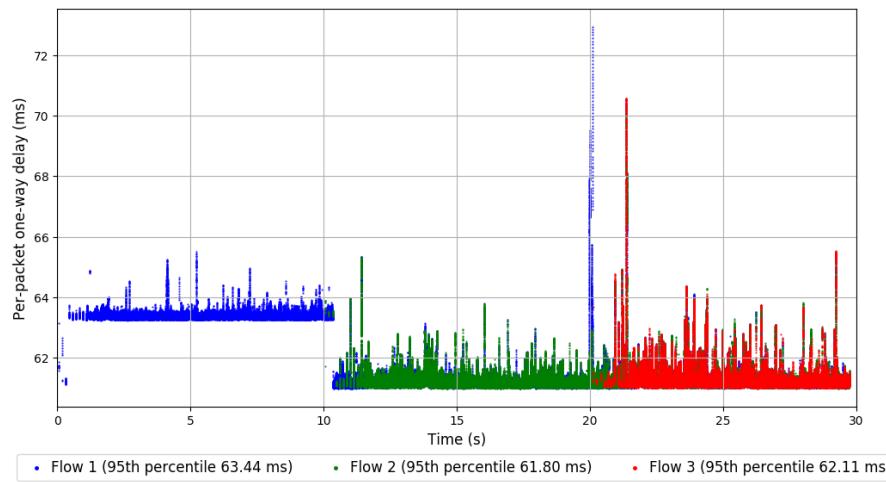
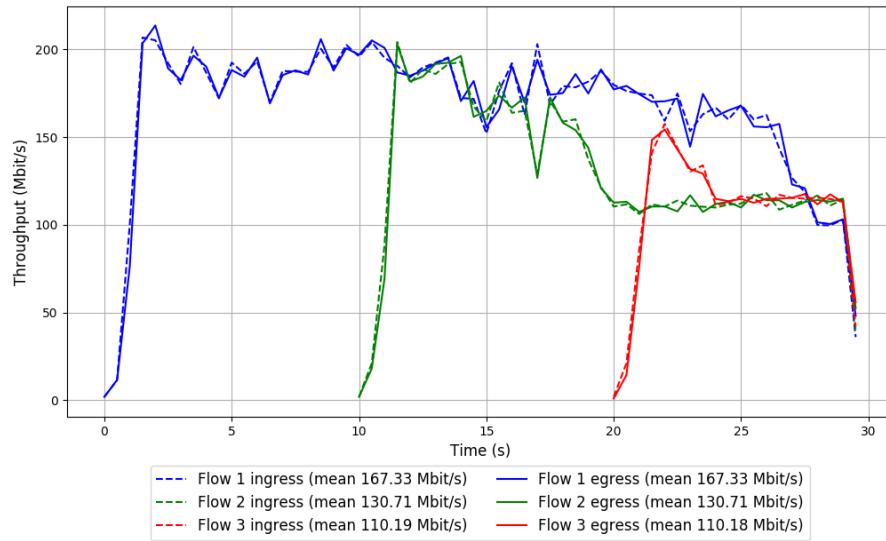


```
Run 5: Statistics of Indigo-calib

Start at: 2017-11-22 05:10:24
End at: 2017-11-22 05:10:54

# Below is generated by plot.py at 2017-11-22 08:34:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 289.54 Mbit/s
95th percentile per-packet one-way delay: 63.415 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 167.33 Mbit/s
95th percentile per-packet one-way delay: 63.441 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 130.71 Mbit/s
95th percentile per-packet one-way delay: 61.796 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 110.18 Mbit/s
95th percentile per-packet one-way delay: 62.114 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo-calib — Data Link



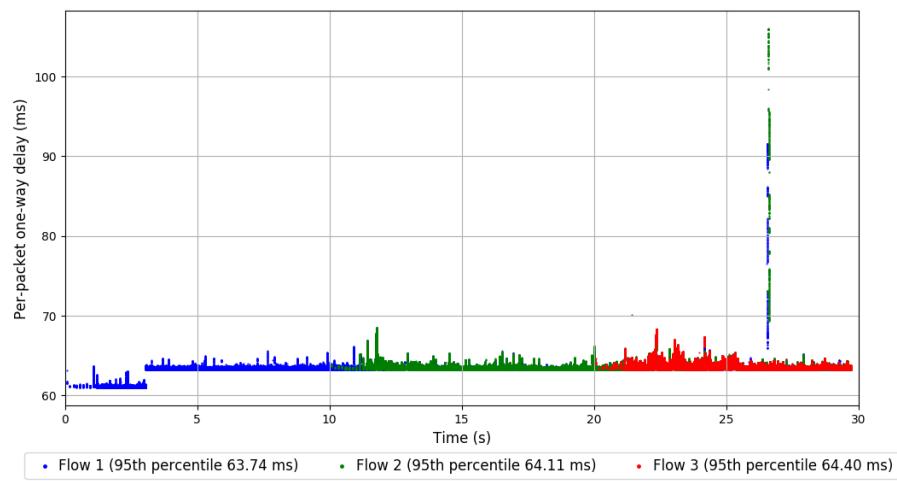
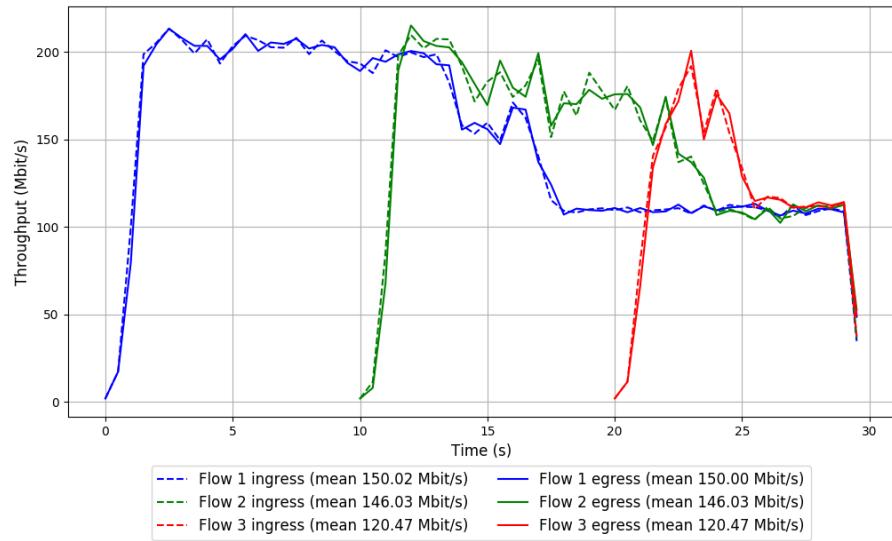
Run 6: Statistics of Indigo-calib

Start at: 2017-11-22 05:22:42

End at: 2017-11-22 05:23:12

```
# Below is generated by plot.py at 2017-11-22 08:34:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 285.85 Mbit/s
95th percentile per-packet one-way delay: 63.967 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 150.00 Mbit/s
95th percentile per-packet one-way delay: 63.739 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 146.03 Mbit/s
95th percentile per-packet one-way delay: 64.107 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 120.47 Mbit/s
95th percentile per-packet one-way delay: 64.396 ms
Loss rate: 0.00%
```

Run 6: Report of Indigo-calib — Data Link



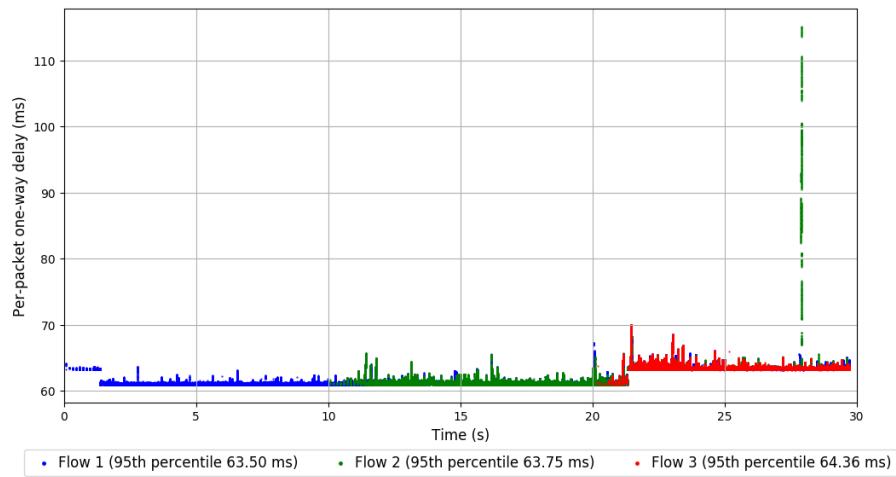
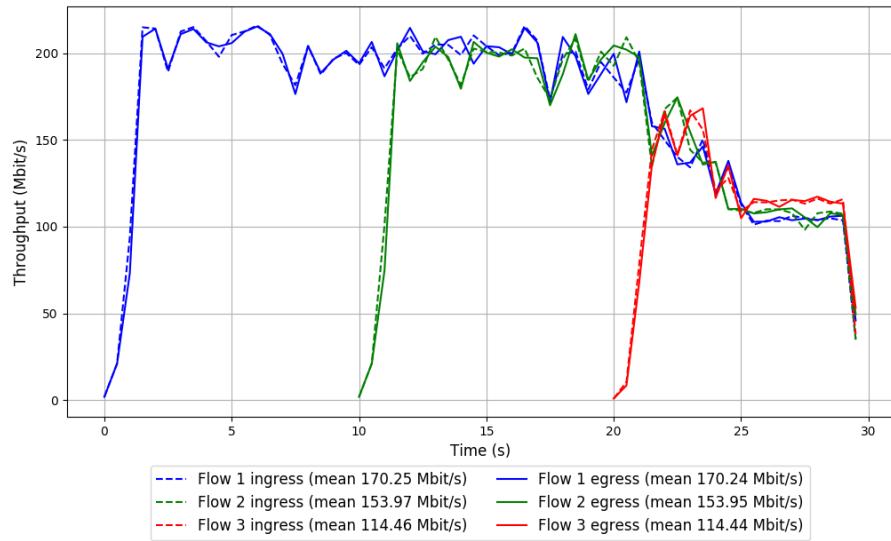
Run 7: Statistics of Indigo-calib

Start at: 2017-11-22 05:34:53

End at: 2017-11-22 05:35:23

```
# Below is generated by plot.py at 2017-11-22 08:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 308.89 Mbit/s
95th percentile per-packet one-way delay: 63.720 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 170.24 Mbit/s
95th percentile per-packet one-way delay: 63.503 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 153.95 Mbit/s
95th percentile per-packet one-way delay: 63.751 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 114.44 Mbit/s
95th percentile per-packet one-way delay: 64.364 ms
Loss rate: 0.00%
```

Run 7: Report of Indigo-calib — Data Link



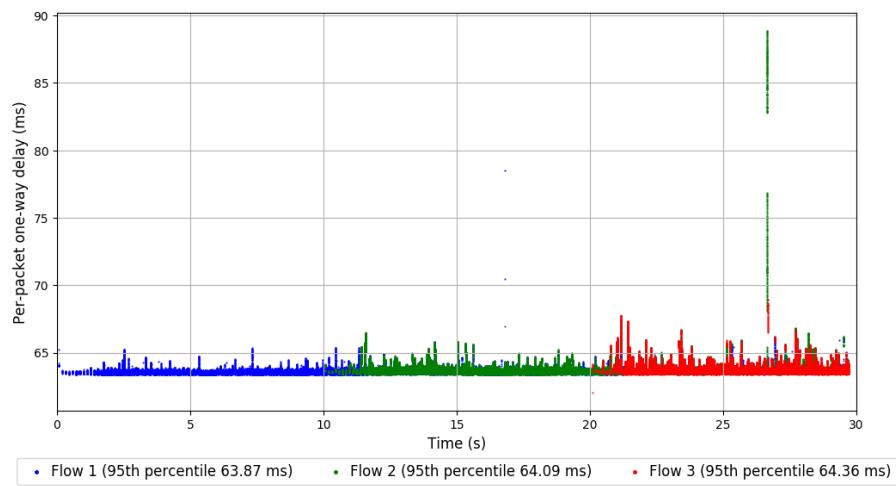
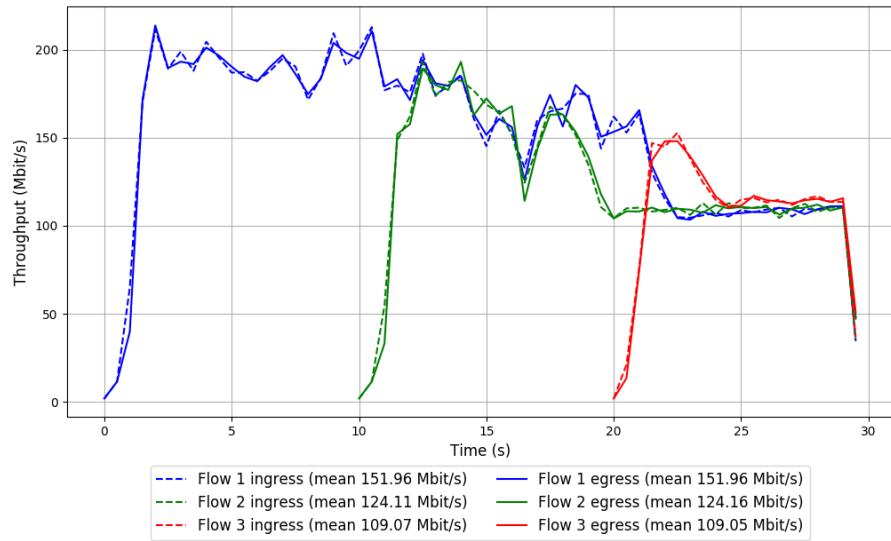
Run 8: Statistics of Indigo-calib

Start at: 2017-11-22 05:47:08

End at: 2017-11-22 05:47:38

```
# Below is generated by plot.py at 2017-11-22 08:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 269.60 Mbit/s
95th percentile per-packet one-way delay: 64.003 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 151.96 Mbit/s
95th percentile per-packet one-way delay: 63.866 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 124.16 Mbit/s
95th percentile per-packet one-way delay: 64.089 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 109.05 Mbit/s
95th percentile per-packet one-way delay: 64.365 ms
Loss rate: 0.00%
```

Run 8: Report of Indigo-calib — Data Link

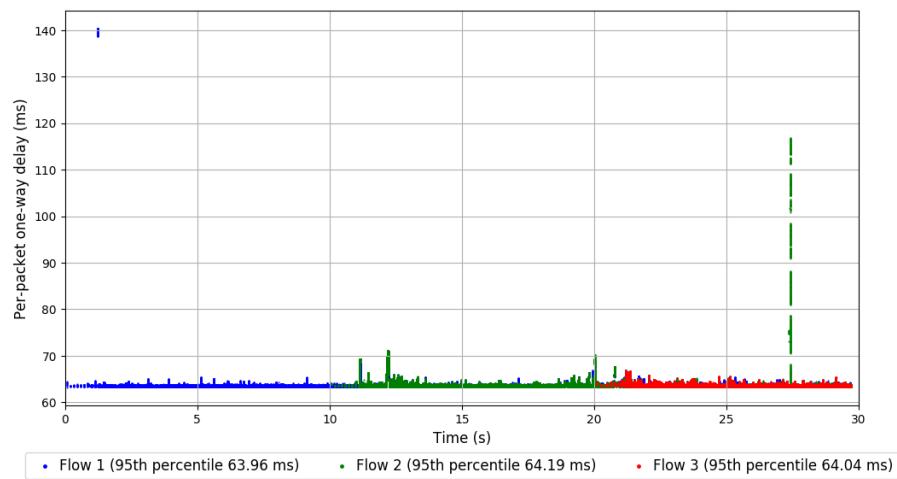
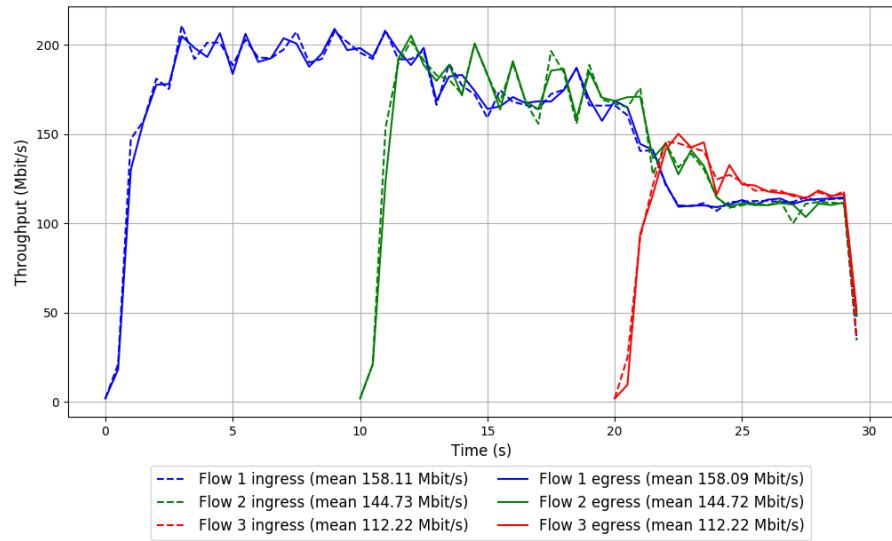


```
Run 9: Statistics of Indigo-calib

Start at: 2017-11-22 05:59:10
End at: 2017-11-22 05:59:40

# Below is generated by plot.py at 2017-11-22 08:35:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 290.42 Mbit/s
95th percentile per-packet one-way delay: 64.037 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 158.09 Mbit/s
95th percentile per-packet one-way delay: 63.956 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 144.72 Mbit/s
95th percentile per-packet one-way delay: 64.194 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 112.22 Mbit/s
95th percentile per-packet one-way delay: 64.041 ms
Loss rate: 0.01%
```

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-22 06:11:27

End at: 2017-11-22 06:11:57

```
# Below is generated by plot.py at 2017-11-22 08:35:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 281.43 Mbit/s
95th percentile per-packet one-way delay: 63.750 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 150.08 Mbit/s
95th percentile per-packet one-way delay: 63.710 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 142.08 Mbit/s
95th percentile per-packet one-way delay: 63.830 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 114.50 Mbit/s
95th percentile per-packet one-way delay: 63.719 ms
Loss rate: 0.01%
```

Run 10: Report of Indigo-calib — Data Link

