

Pantheon Report

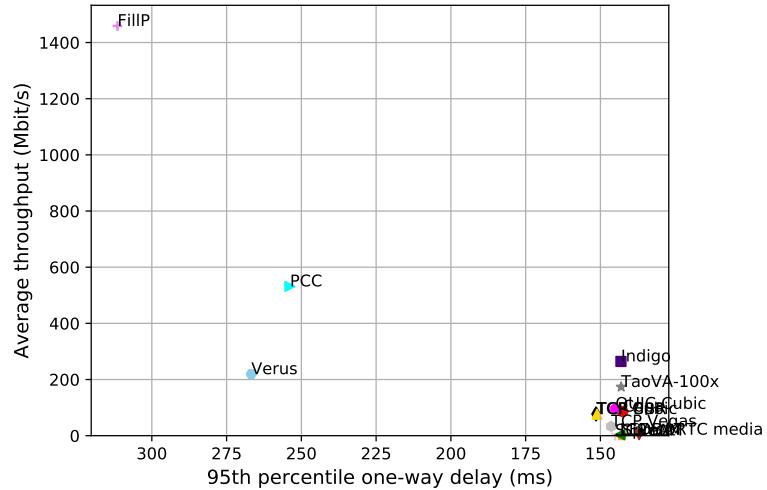
Generated at 2017-12-21 12:23:23 (UTC).
Data path: GCE Sydney Ethernet (*local*) → GCE London Ethernet (*remote*).
Repeated the test of 14 congestion control schemes 10 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

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**).

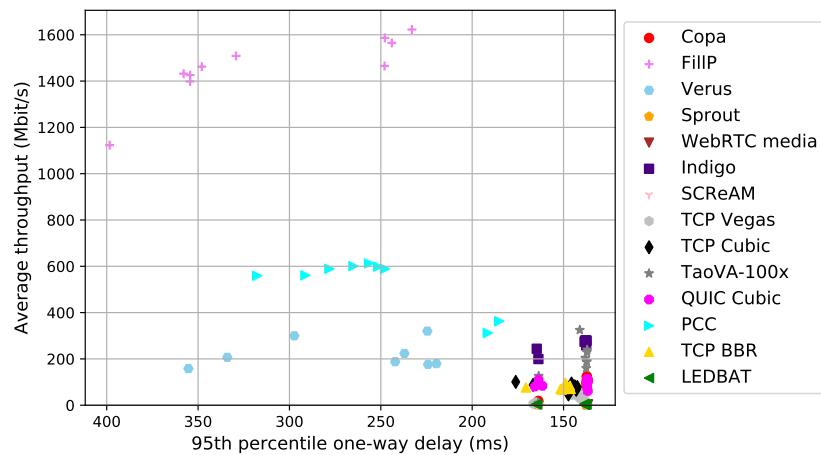
Git summary:

```
branch: master @ 904a5750834816b1e46a2c86405d707788d27c16
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/fillp @ dcaeef6b00654e660f73f7ed679d2eab61ce08639
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/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 Sydney Ethernet to GCE London Ethernet, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



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



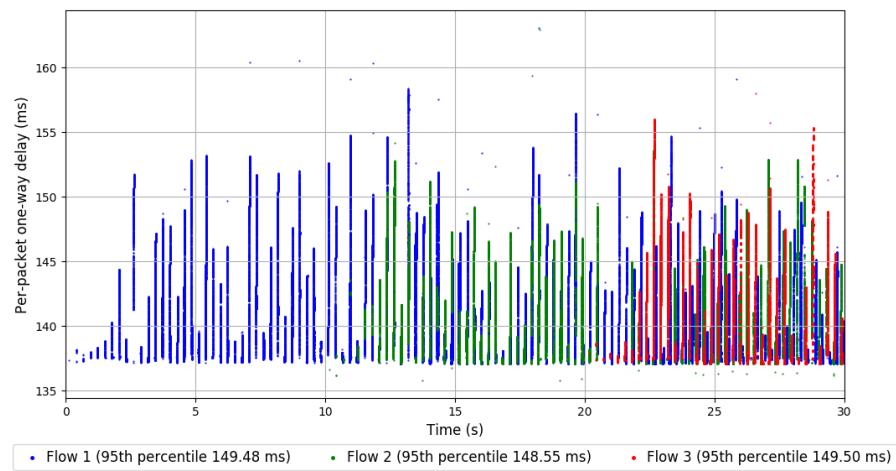
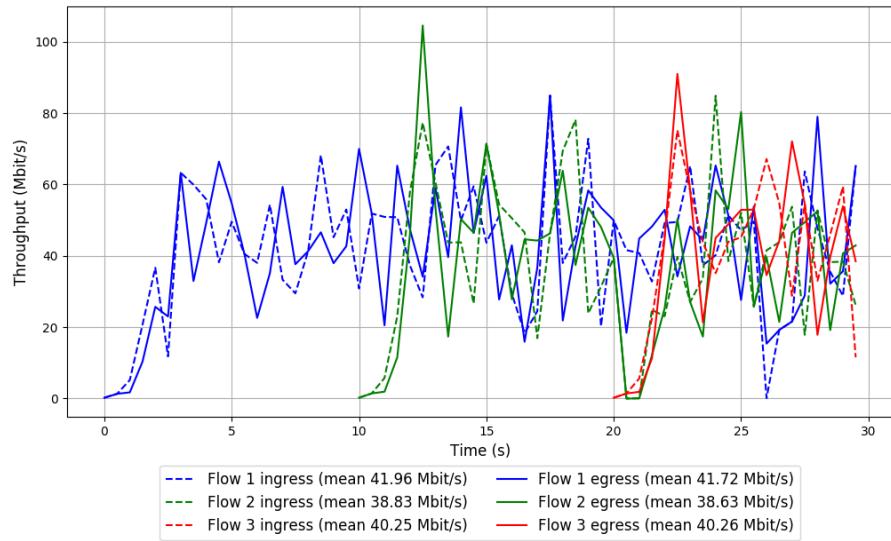
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	37.90	38.11	40.80	150.38	151.32	150.79	1.04	1.03	0.70
TCP Cubic	8	35.80	41.70	40.00	148.94	150.43	153.15	0.74	0.07	0.01
LEDBAT	10	1.91	1.44	1.09	143.74	143.45	147.13	1.02	0.34	0.72
PCC	9	382.85	194.64	59.21	255.63	230.65	228.20	2.89	2.10	3.02
QUIC Cubic	10	48.24	53.85	36.31	139.68	139.75	141.72	0.01	0.02	0.10
SCReAM	10	0.21	0.22	0.22	144.84	139.62	141.98	0.00	0.00	0.03
WebRTC media	10	1.94	1.19	0.40	136.97	136.85	142.50	0.00	0.00	0.01
Sprout	10	0.38	0.39	0.43	142.85	142.83	142.57	0.08	0.00	0.00
TaoVA-100x	10	85.35	111.17	82.80	145.35	146.00	142.58	0.53	0.02	0.00
TCP Vegas	10	12.82	17.63	25.31	146.33	144.85	145.76	1.07	0.51	0.05
Verus	8	119.34	133.70	35.83	212.66	271.24	246.49	1.09	5.75	7.04
Copa	10	57.73	30.32	30.61	142.43	149.97	142.65	0.00	4.62	0.13
FillP	10	743.60	758.45	637.21	303.78	289.48	292.72	6.52	7.79	13.88
Indigo	10	142.67	131.56	108.60	142.88	143.32	144.56	0.10	0.07	0.06

```
Run 1: Statistics of TCP BBR

Start at: 2017-12-21 07:36:33
End at: 2017-12-21 07:37:03

# Below is generated by plot.py at 2017-12-21 11:16:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.37 Mbit/s
95th percentile per-packet one-way delay: 149.227 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 41.72 Mbit/s
95th percentile per-packet one-way delay: 149.482 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 38.63 Mbit/s
95th percentile per-packet one-way delay: 148.553 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 40.26 Mbit/s
95th percentile per-packet one-way delay: 149.500 ms
Loss rate: 0.00%
```

Run 1: Report of TCP BBR — Data Link



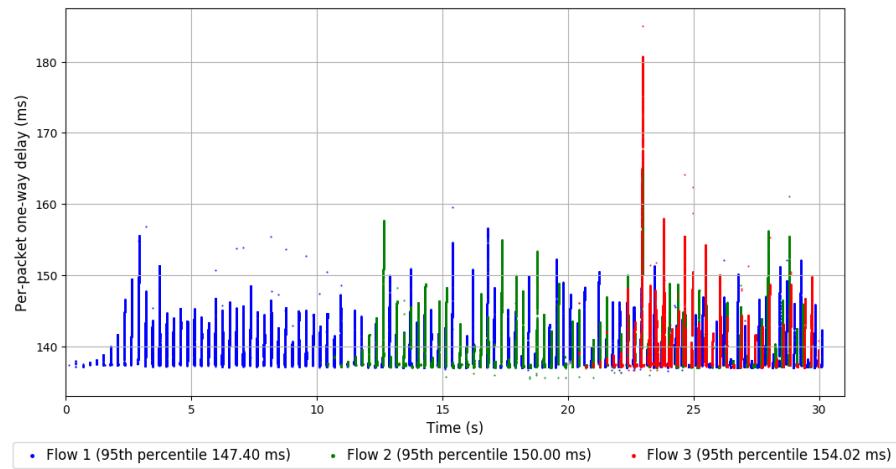
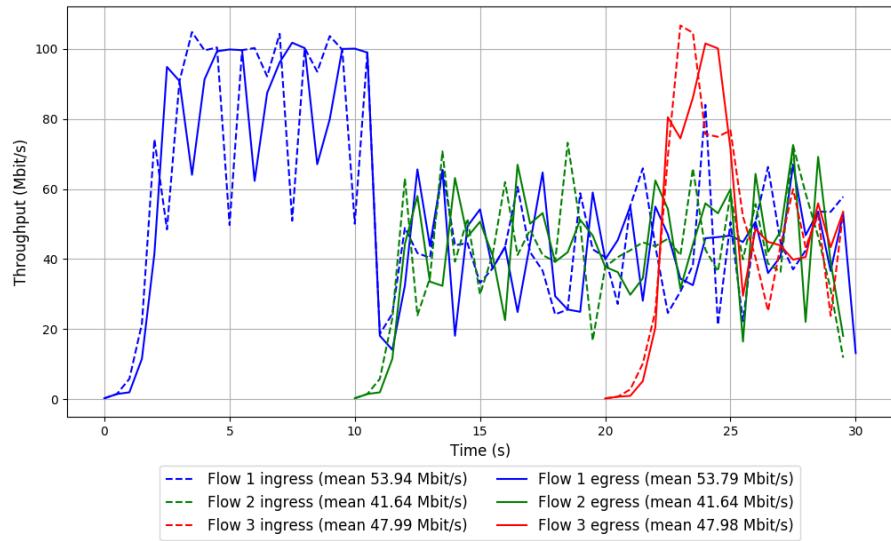
Run 2: Statistics of TCP BBR

Start at: 2017-12-21 07:52:14

End at: 2017-12-21 07:52:44

```
# Below is generated by plot.py at 2017-12-21 11:17:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.99 Mbit/s
95th percentile per-packet one-way delay: 148.985 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 53.79 Mbit/s
95th percentile per-packet one-way delay: 147.397 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 41.64 Mbit/s
95th percentile per-packet one-way delay: 149.999 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 47.98 Mbit/s
95th percentile per-packet one-way delay: 154.024 ms
Loss rate: 0.01%
```

Run 2: Report of TCP BBR — Data Link



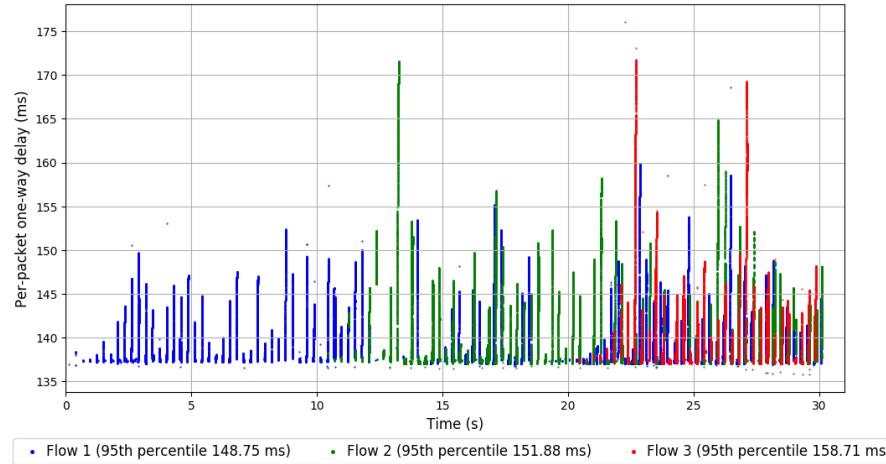
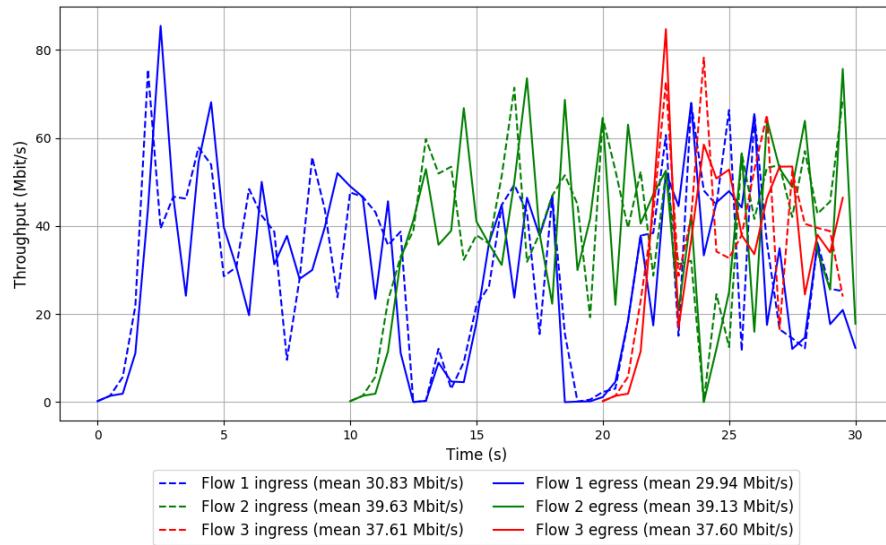
Run 3: Statistics of TCP BBR

Start at: 2017-12-21 08:08:11

End at: 2017-12-21 08:08:41

```
# Below is generated by plot.py at 2017-12-21 11:17:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.12 Mbit/s
95th percentile per-packet one-way delay: 151.027 ms
Loss rate: 1.76%
-- Flow 1:
Average throughput: 29.94 Mbit/s
95th percentile per-packet one-way delay: 148.749 ms
Loss rate: 2.89%
-- Flow 2:
Average throughput: 39.13 Mbit/s
95th percentile per-packet one-way delay: 151.875 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 37.60 Mbit/s
95th percentile per-packet one-way delay: 158.706 ms
Loss rate: 0.03%
```

Run 3: Report of TCP BBR — Data Link



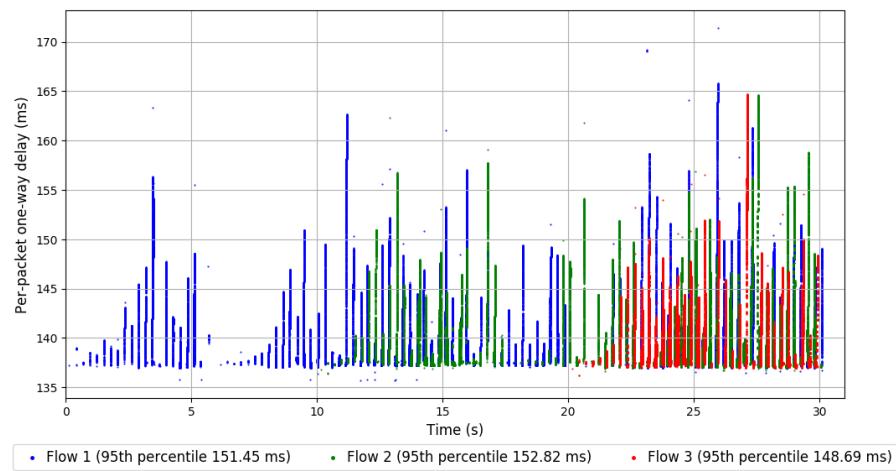
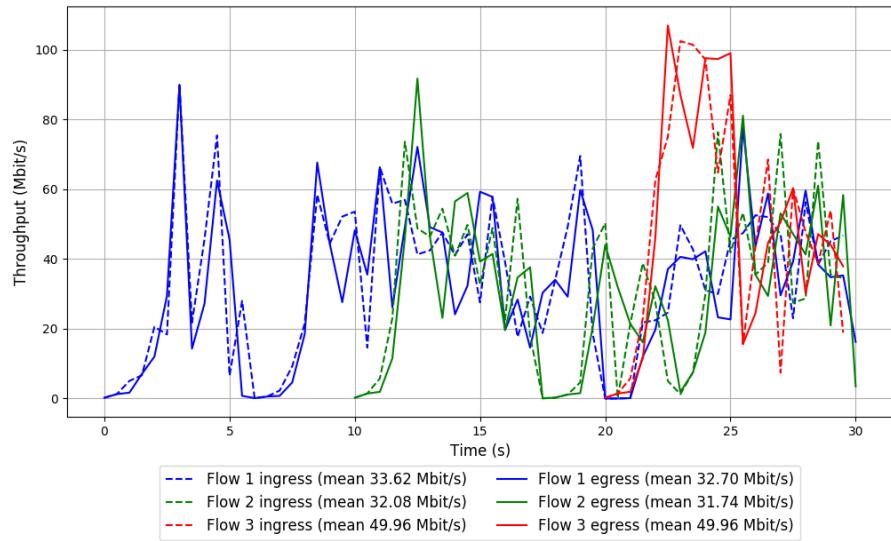
Run 4: Statistics of TCP BBR

Start at: 2017-12-21 08:24:34

End at: 2017-12-21 08:25:04

```
# Below is generated by plot.py at 2017-12-21 11:17:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.08 Mbit/s
95th percentile per-packet one-way delay: 151.612 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 32.70 Mbit/s
95th percentile per-packet one-way delay: 151.451 ms
Loss rate: 2.69%
-- Flow 2:
Average throughput: 31.74 Mbit/s
95th percentile per-packet one-way delay: 152.817 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 49.96 Mbit/s
95th percentile per-packet one-way delay: 148.694 ms
Loss rate: 0.00%
```

Run 4: Report of TCP BBR — Data Link



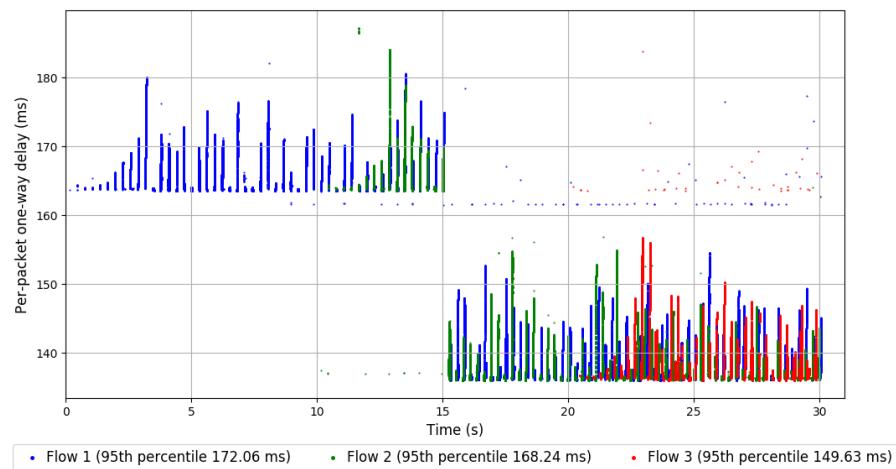
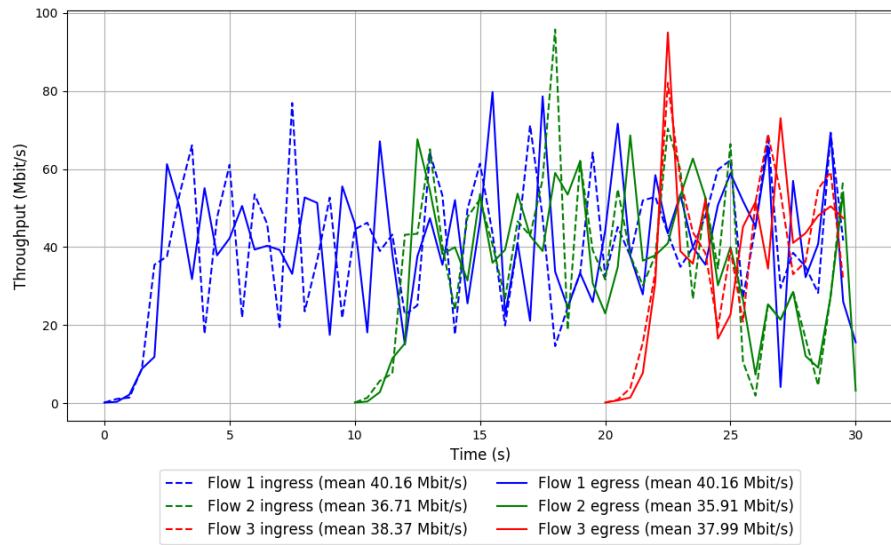
Run 5: Statistics of TCP BBR

Start at: 2017-12-21 08:39:50

End at: 2017-12-21 08:40:20

```
# Below is generated by plot.py at 2017-12-21 11:17:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.35 Mbit/s
95th percentile per-packet one-way delay: 170.617 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 40.16 Mbit/s
95th percentile per-packet one-way delay: 172.058 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.91 Mbit/s
95th percentile per-packet one-way delay: 168.242 ms
Loss rate: 2.06%
-- Flow 3:
Average throughput: 37.99 Mbit/s
95th percentile per-packet one-way delay: 149.627 ms
Loss rate: 1.03%
```

Run 5: Report of TCP BBR — Data Link



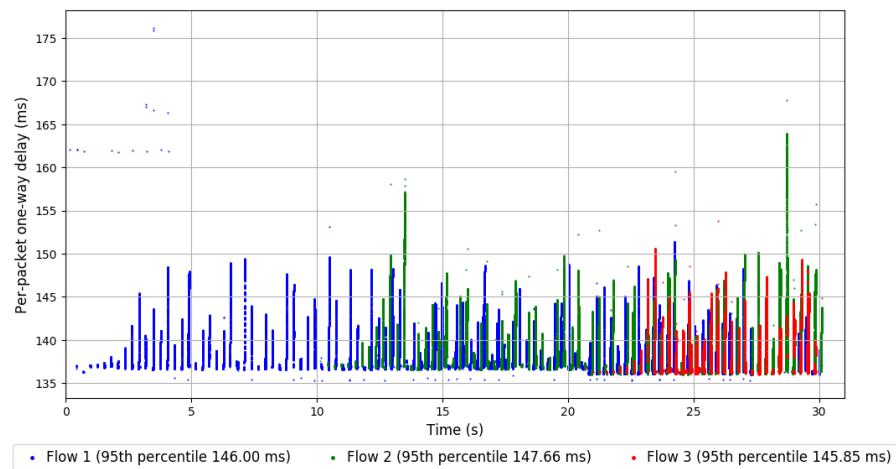
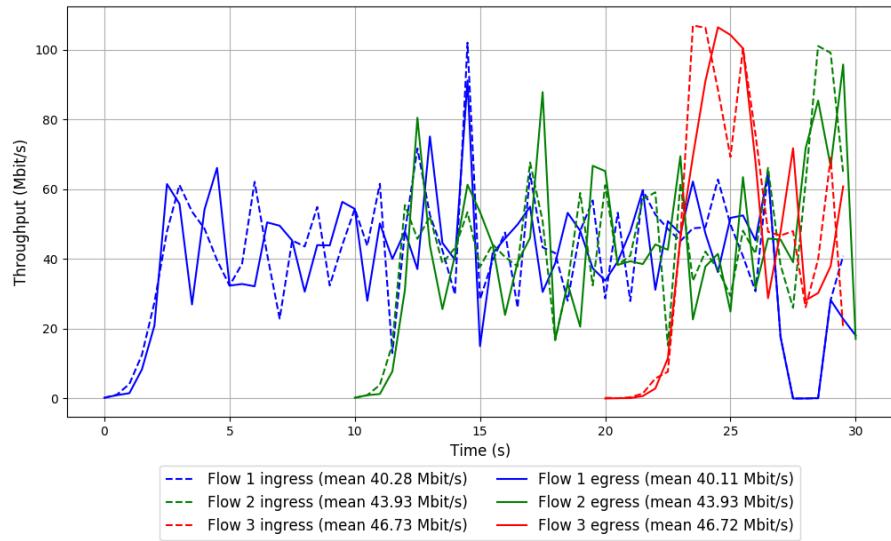
Run 6: Statistics of TCP BBR

Start at: 2017-12-21 08:55:24

End at: 2017-12-21 08:55:54

```
# Below is generated by plot.py at 2017-12-21 11:17:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.42 Mbit/s
95th percentile per-packet one-way delay: 146.519 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 40.11 Mbit/s
95th percentile per-packet one-way delay: 145.998 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 43.93 Mbit/s
95th percentile per-packet one-way delay: 147.656 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 46.72 Mbit/s
95th percentile per-packet one-way delay: 145.853 ms
Loss rate: 0.03%
```

Run 6: Report of TCP BBR — Data Link



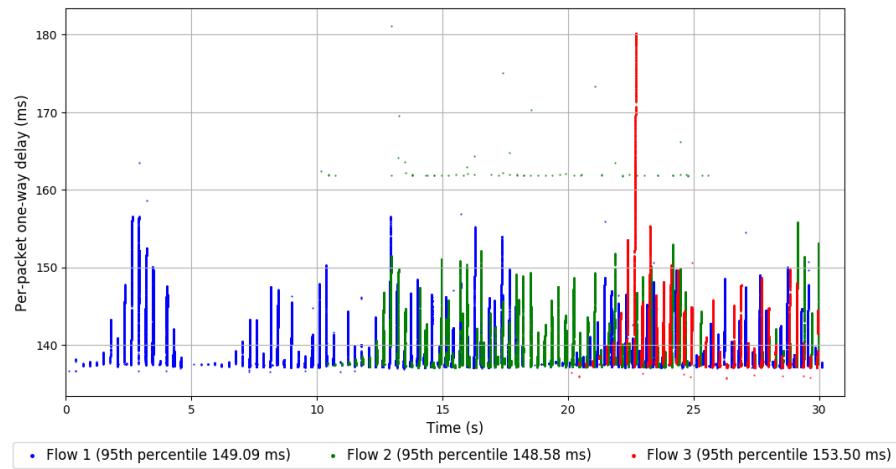
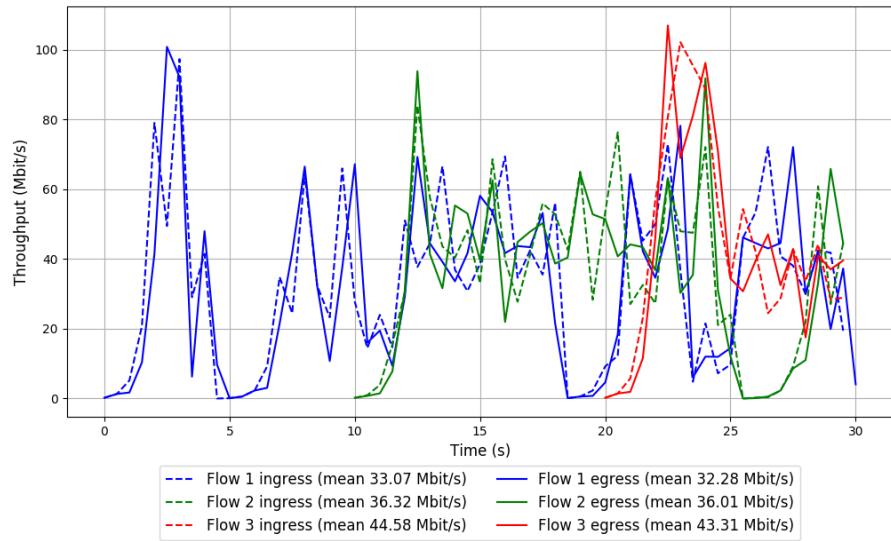
Run 7: Statistics of TCP BBR

Start at: 2017-12-21 09:11:13

End at: 2017-12-21 09:11:43

```
# Below is generated by plot.py at 2017-12-21 11:17:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.24 Mbit/s
95th percentile per-packet one-way delay: 149.502 ms
Loss rate: 1.95%
-- Flow 1:
Average throughput: 32.28 Mbit/s
95th percentile per-packet one-way delay: 149.090 ms
Loss rate: 2.36%
-- Flow 2:
Average throughput: 36.01 Mbit/s
95th percentile per-packet one-way delay: 148.581 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 43.31 Mbit/s
95th percentile per-packet one-way delay: 153.498 ms
Loss rate: 2.78%
```

Run 7: Report of TCP BBR — Data Link



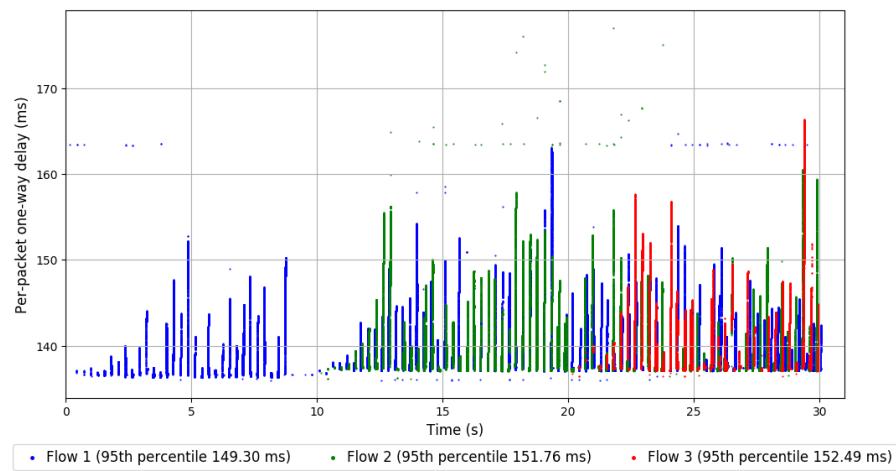
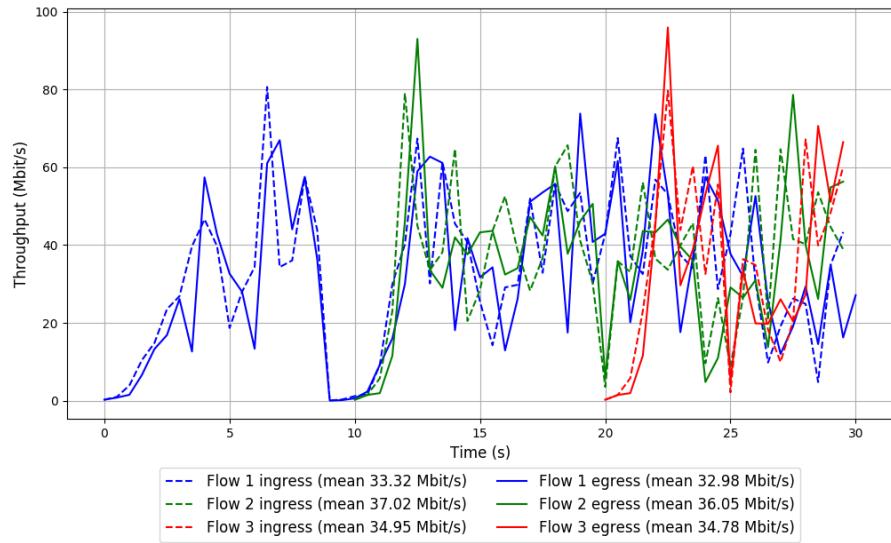
Run 8: Statistics of TCP BBR

Start at: 2017-12-21 09:27:34

End at: 2017-12-21 09:28:04

```
# Below is generated by plot.py at 2017-12-21 11:17:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.24 Mbit/s
95th percentile per-packet one-way delay: 150.869 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 32.98 Mbit/s
95th percentile per-packet one-way delay: 149.301 ms
Loss rate: 1.13%
-- Flow 2:
Average throughput: 36.05 Mbit/s
95th percentile per-packet one-way delay: 151.761 ms
Loss rate: 2.53%
-- Flow 3:
Average throughput: 34.78 Mbit/s
95th percentile per-packet one-way delay: 152.489 ms
Loss rate: 0.40%
```

Run 8: Report of TCP BBR — Data Link



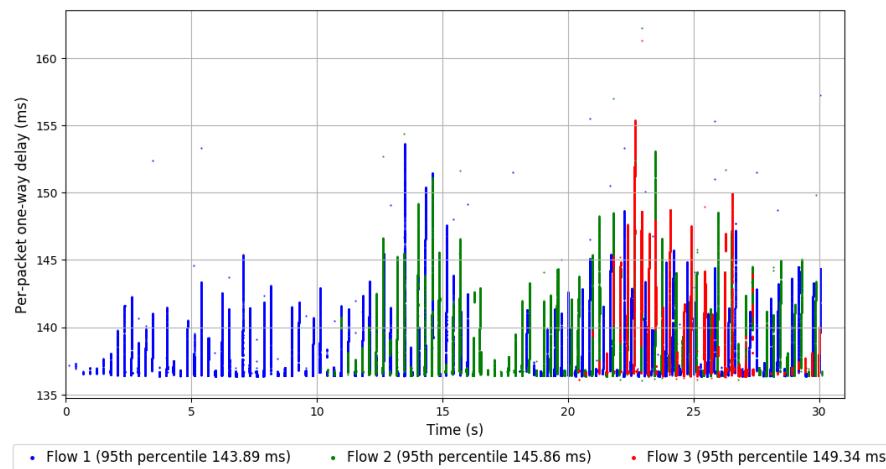
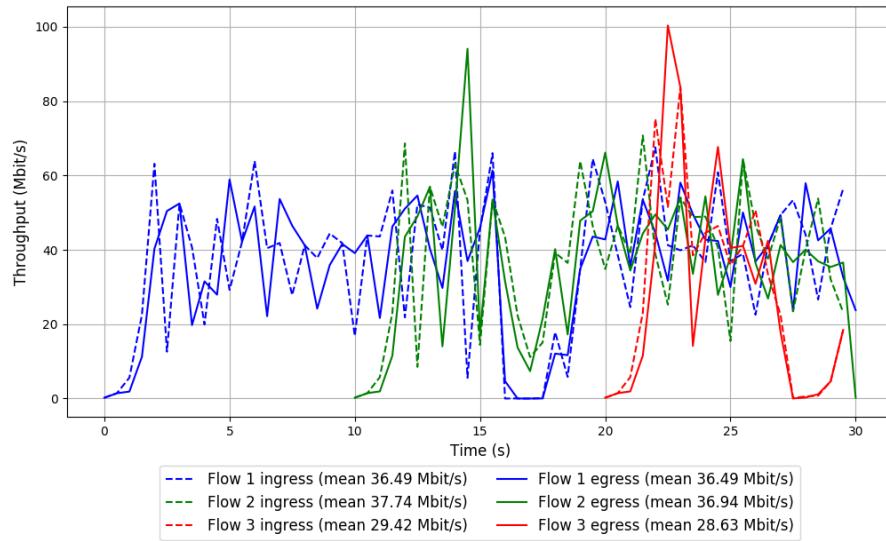
Run 9: Statistics of TCP BBR

Start at: 2017-12-21 09:43:46

End at: 2017-12-21 09:44:16

```
# Below is generated by plot.py at 2017-12-21 11:17:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.40 Mbit/s
95th percentile per-packet one-way delay: 146.066 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 36.49 Mbit/s
95th percentile per-packet one-way delay: 143.888 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 36.94 Mbit/s
95th percentile per-packet one-way delay: 145.859 ms
Loss rate: 2.12%
-- Flow 3:
Average throughput: 28.63 Mbit/s
95th percentile per-packet one-way delay: 149.335 ms
Loss rate: 2.66%
```

Run 9: Report of TCP BBR — Data Link



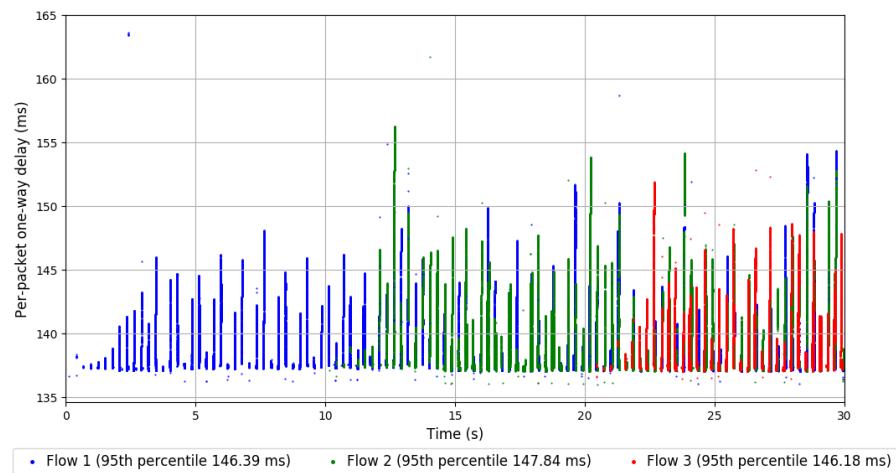
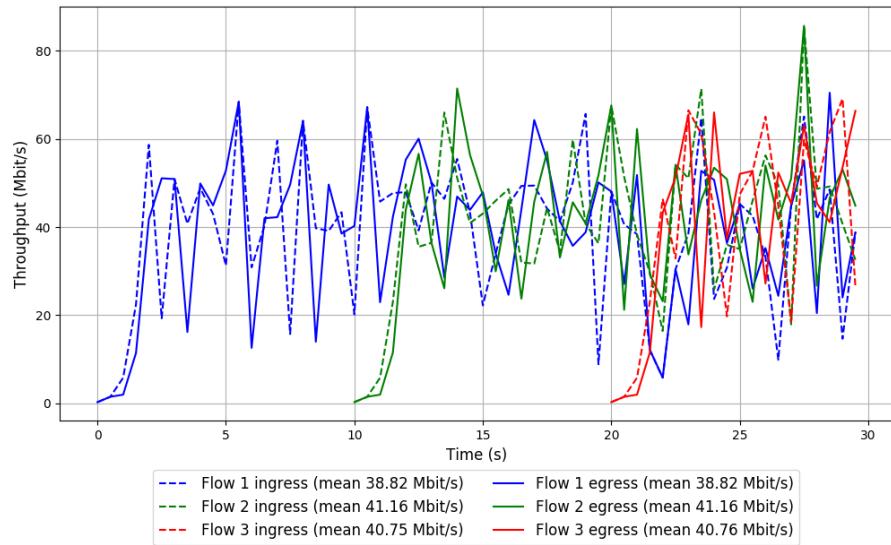
Run 10: Statistics of TCP BBR

Start at: 2017-12-21 10:00:01

End at: 2017-12-21 10:00:31

```
# Below is generated by plot.py at 2017-12-21 11:18:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.48 Mbit/s
95th percentile per-packet one-way delay: 146.876 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 38.82 Mbit/s
95th percentile per-packet one-way delay: 146.387 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.16 Mbit/s
95th percentile per-packet one-way delay: 147.845 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 40.76 Mbit/s
95th percentile per-packet one-way delay: 146.180 ms
Loss rate: 0.01%
```

Run 10: Report of TCP BBR — Data Link

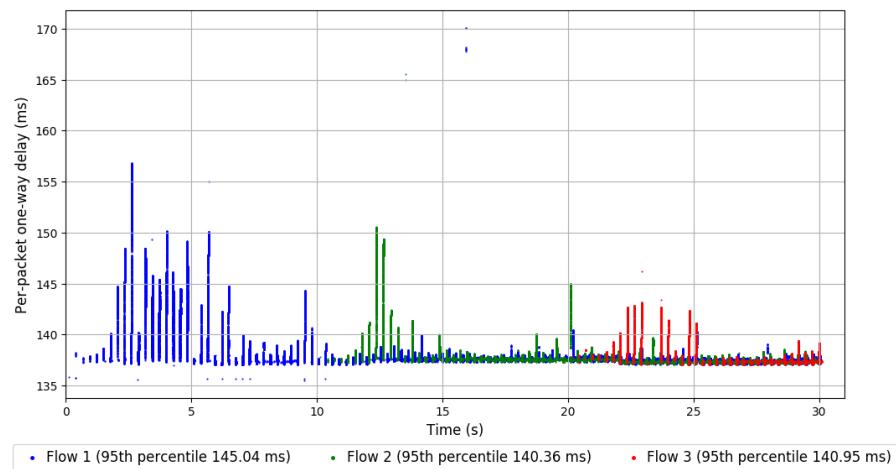
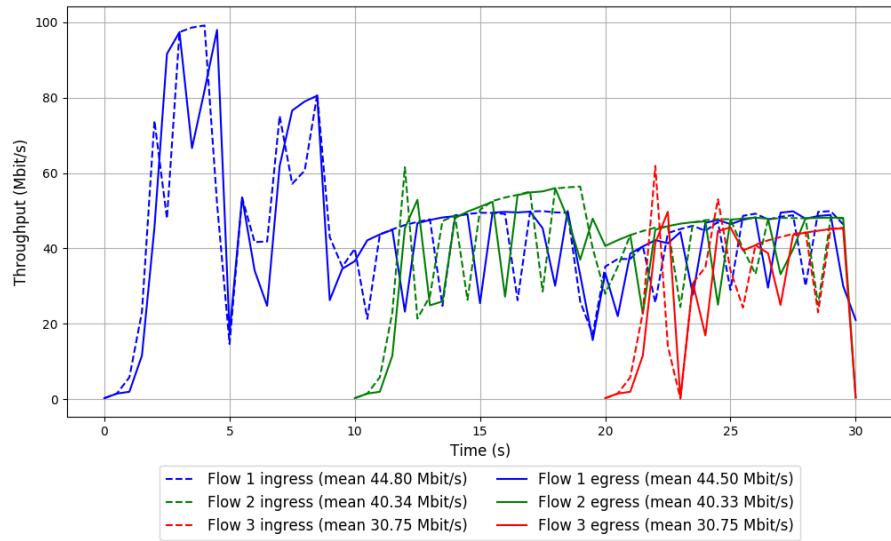


```
Run 1: Statistics of TCP Cubic

Start at: 2017-12-21 07:29:13
End at: 2017-12-21 07:29:43

# Below is generated by plot.py at 2017-12-21 11:18:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.51 Mbit/s
95th percentile per-packet one-way delay: 143.833 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 44.50 Mbit/s
95th percentile per-packet one-way delay: 145.043 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 40.33 Mbit/s
95th percentile per-packet one-way delay: 140.358 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 30.75 Mbit/s
95th percentile per-packet one-way delay: 140.950 ms
Loss rate: 0.01%
```

Run 1: Report of TCP Cubic — Data Link



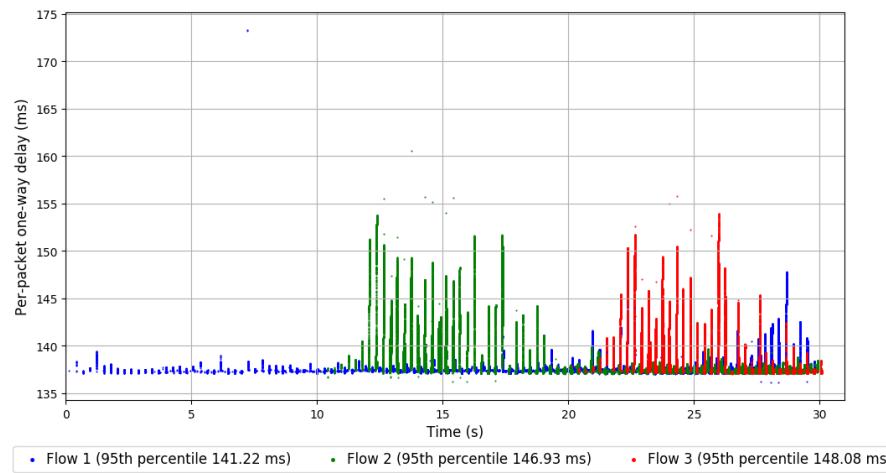
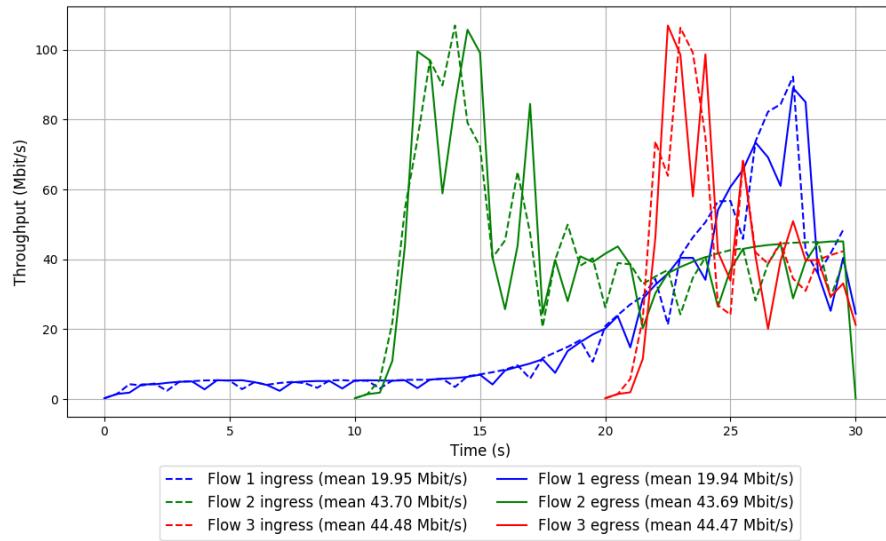
```
Run 2: Statistics of TCP Cubic
```

```
Start at: 2017-12-21 07:44:14
```

```
End at: 2017-12-21 07:44:44
```

```
# Below is generated by plot.py at 2017-12-21 11:18:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.72 Mbit/s
95th percentile per-packet one-way delay: 146.498 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 19.94 Mbit/s
95th percentile per-packet one-way delay: 141.225 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 43.69 Mbit/s
95th percentile per-packet one-way delay: 146.927 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 44.47 Mbit/s
95th percentile per-packet one-way delay: 148.079 ms
Loss rate: 0.02%
```

Run 2: Report of TCP Cubic — Data Link



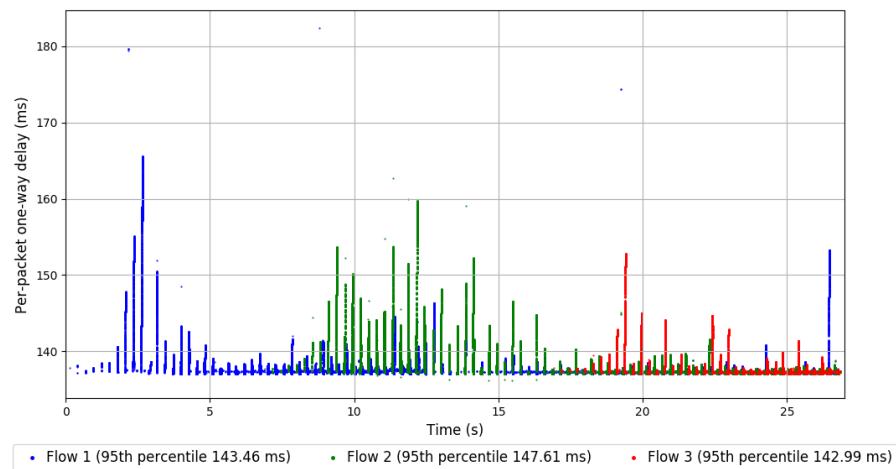
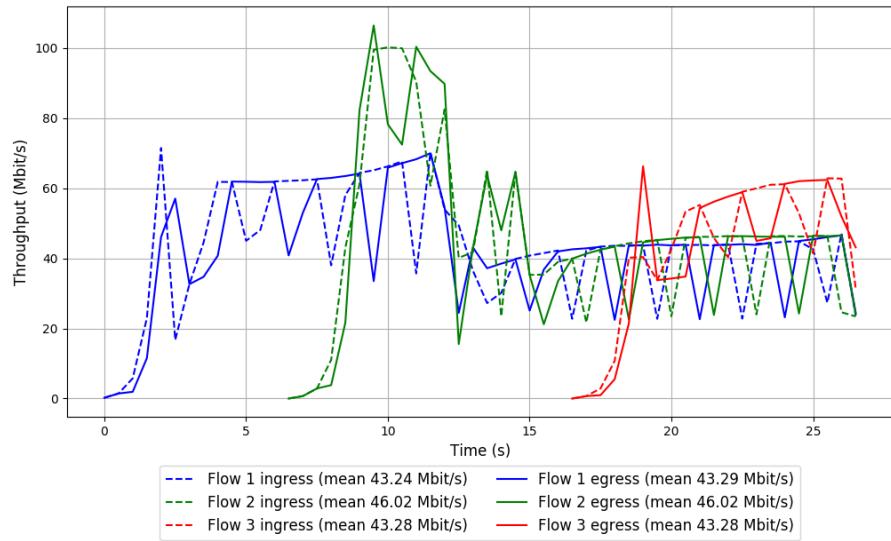
```
Run 3: Statistics of TCP Cubic
```

```
Start at: 2017-12-21 08:00:12
```

```
End at: 2017-12-21 08:00:42
```

```
# Below is generated by plot.py at 2017-12-21 11:18:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.65 Mbit/s
95th percentile per-packet one-way delay: 145.631 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 43.29 Mbit/s
95th percentile per-packet one-way delay: 143.460 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 46.02 Mbit/s
95th percentile per-packet one-way delay: 147.613 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 43.28 Mbit/s
95th percentile per-packet one-way delay: 142.985 ms
Loss rate: 0.00%
```

Run 3: Report of TCP Cubic — Data Link

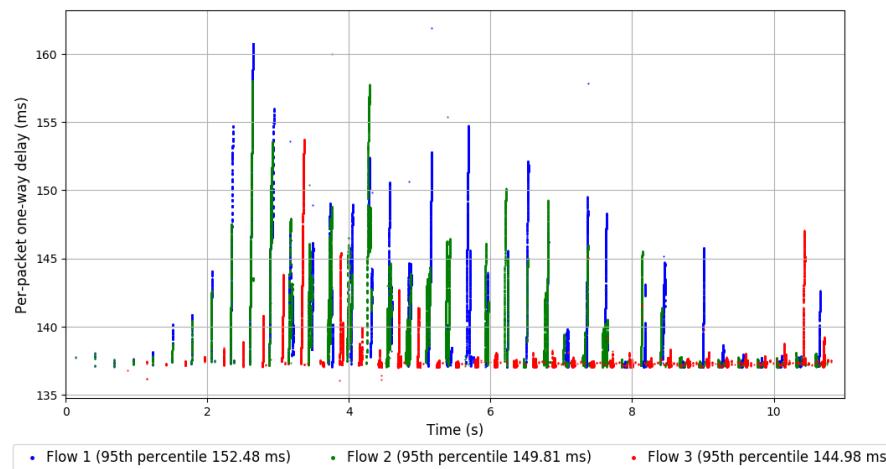
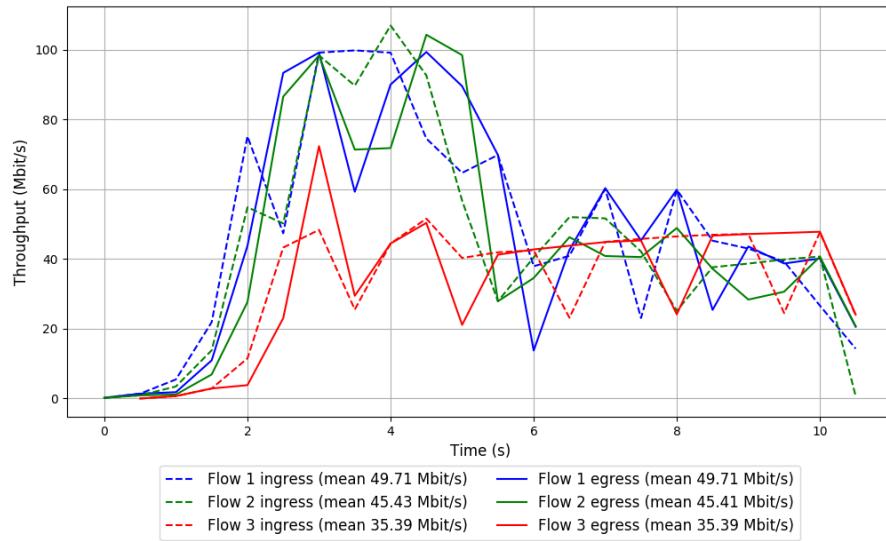


Run 4: Statistics of TCP Cubic

Start at: 2017-12-21 08:16:31

End at: 2017-12-21 08:17:01

Run 4: Report of TCP Cubic — Data Link



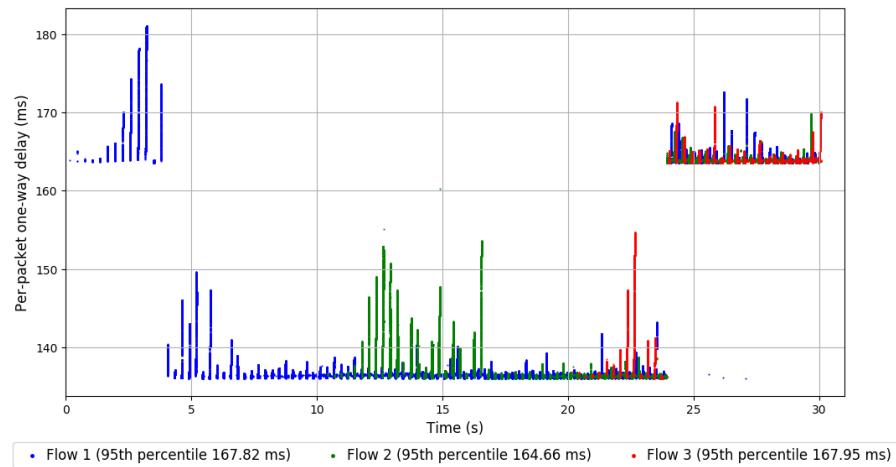
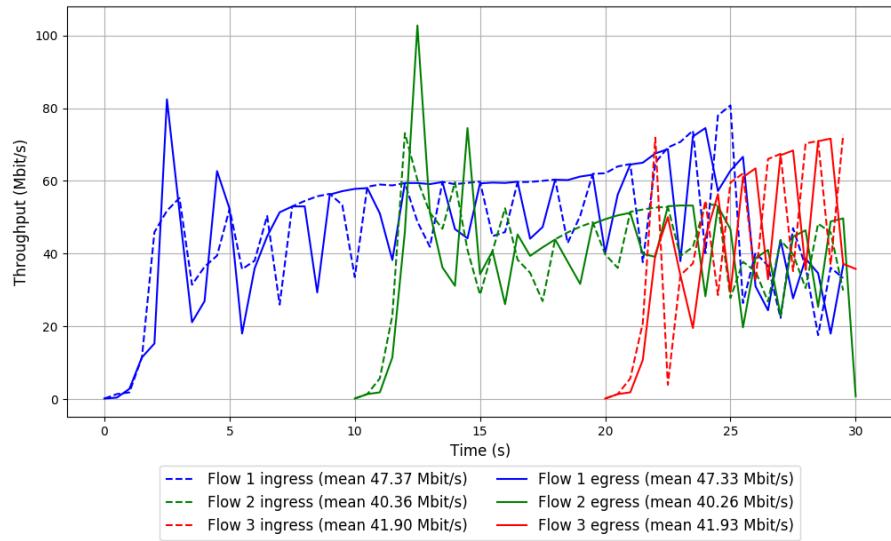
```
Run 5: Statistics of TCP Cubic
```

```
Start at: 2017-12-21 08:32:01
```

```
End at: 2017-12-21 08:32:31
```

```
# Below is generated by plot.py at 2017-12-21 11:18:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.88 Mbit/s
95th percentile per-packet one-way delay: 166.653 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 47.33 Mbit/s
95th percentile per-packet one-way delay: 167.816 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 40.26 Mbit/s
95th percentile per-packet one-way delay: 164.658 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 41.93 Mbit/s
95th percentile per-packet one-way delay: 167.953 ms
Loss rate: 0.04%
```

Run 5: Report of TCP Cubic — Data Link



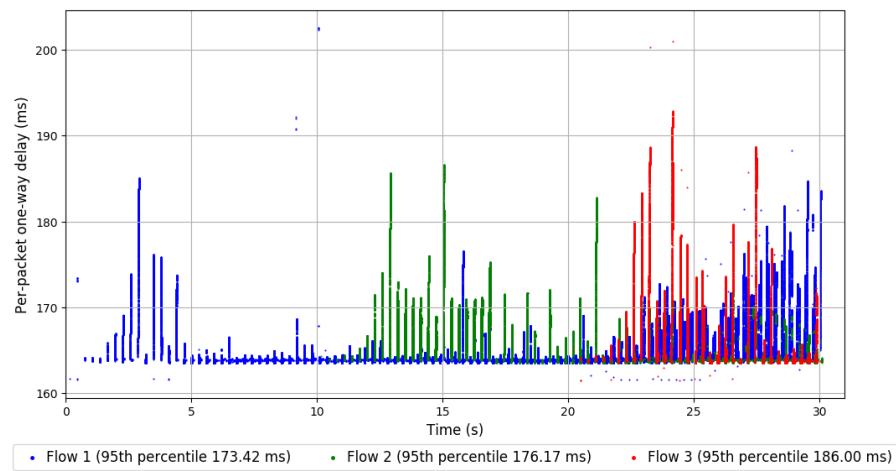
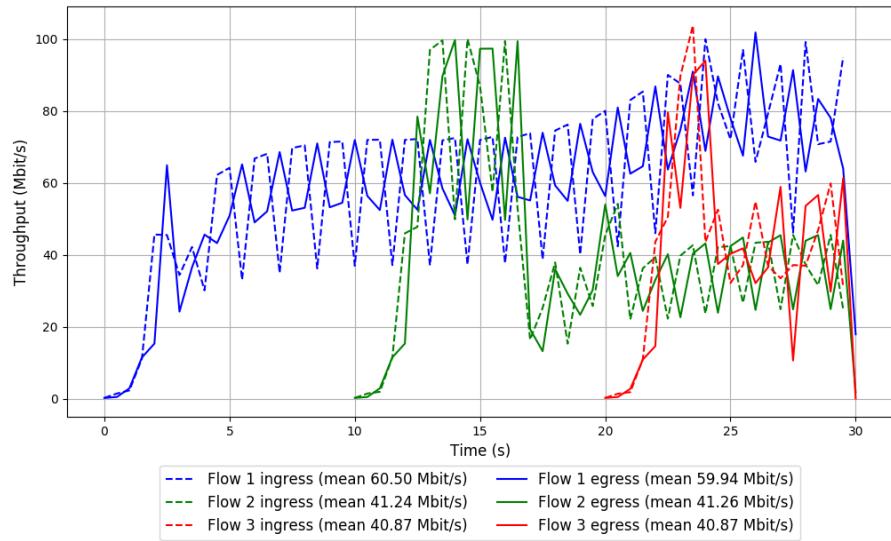
Run 6: Statistics of TCP Cubic

Start at: 2017-12-21 08:47:33

End at: 2017-12-21 08:48:03

```
# Below is generated by plot.py at 2017-12-21 11:19:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 100.75 Mbit/s
95th percentile per-packet one-way delay: 176.163 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 59.94 Mbit/s
95th percentile per-packet one-way delay: 173.423 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 41.26 Mbit/s
95th percentile per-packet one-way delay: 176.174 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 40.87 Mbit/s
95th percentile per-packet one-way delay: 185.998 ms
Loss rate: 0.01%
```

Run 6: Report of TCP Cubic — Data Link



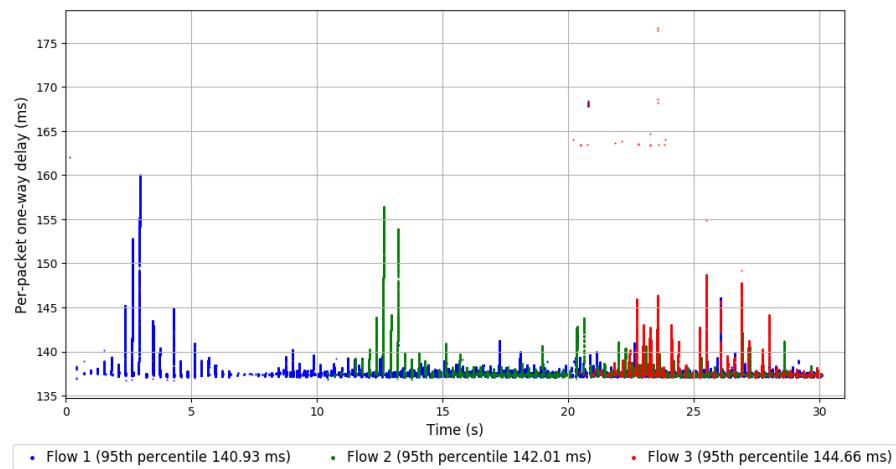
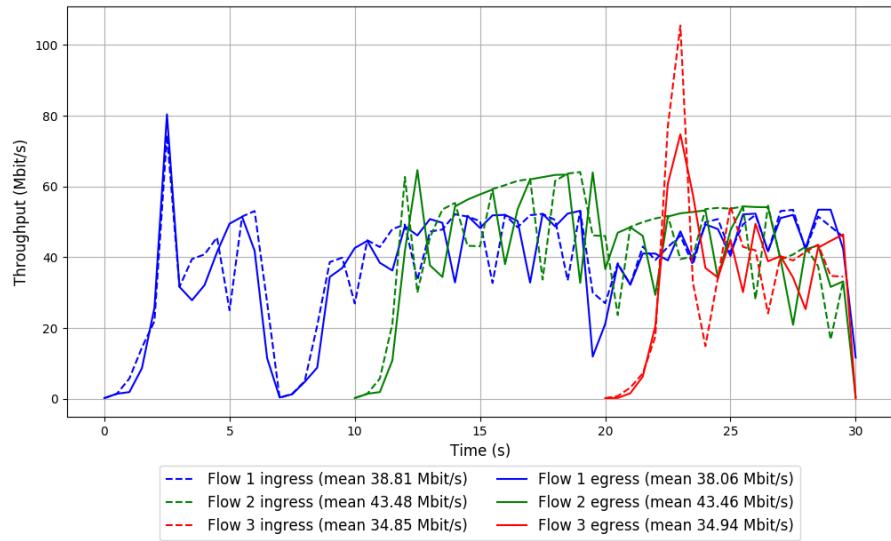
Run 7: Statistics of TCP Cubic

Start at: 2017-12-21 09:03:14

End at: 2017-12-21 09:03:44

```
# Below is generated by plot.py at 2017-12-21 11:19:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.55 Mbit/s
95th percentile per-packet one-way delay: 142.457 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 38.06 Mbit/s
95th percentile per-packet one-way delay: 140.927 ms
Loss rate: 2.00%
-- Flow 2:
Average throughput: 43.46 Mbit/s
95th percentile per-packet one-way delay: 142.011 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 34.94 Mbit/s
95th percentile per-packet one-way delay: 144.663 ms
Loss rate: 0.00%
```

Run 7: Report of TCP Cubic — Data Link



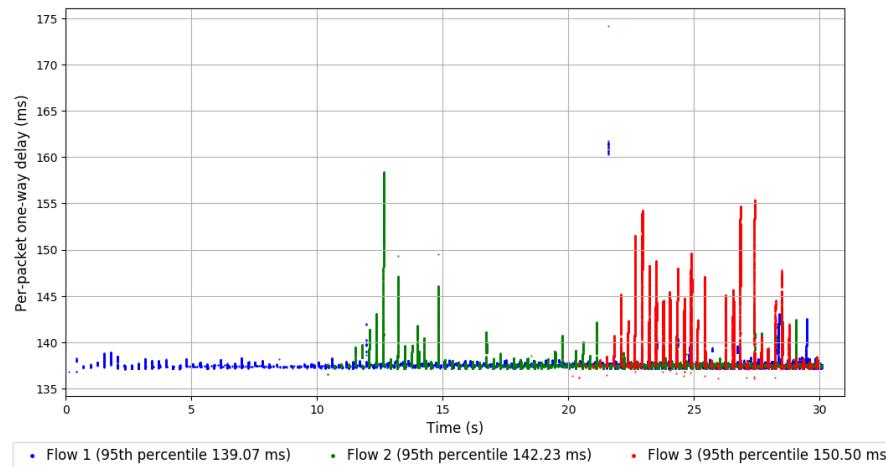
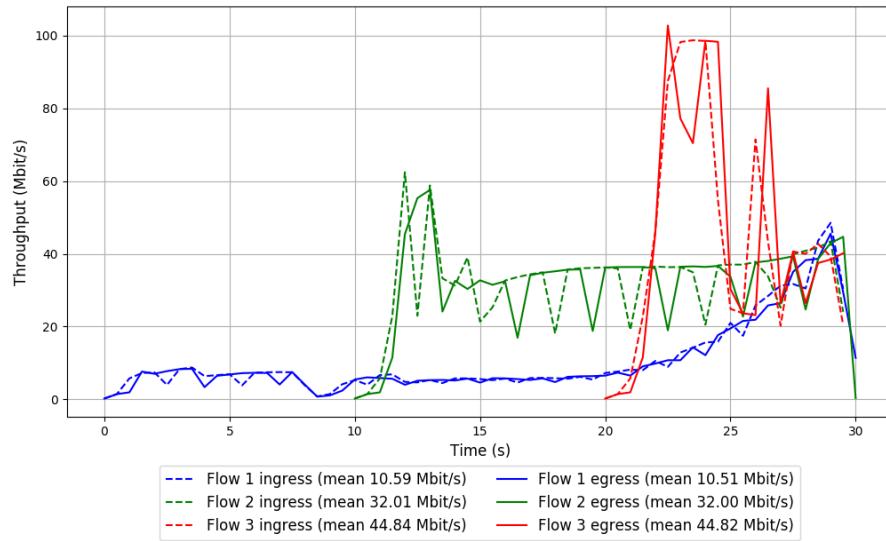
Run 8: Statistics of TCP Cubic

Start at: 2017-12-21 09:19:33

End at: 2017-12-21 09:20:03

```
# Below is generated by plot.py at 2017-12-21 11:19:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 46.50 Mbit/s
95th percentile per-packet one-way delay: 147.318 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 10.51 Mbit/s
95th percentile per-packet one-way delay: 139.074 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 32.00 Mbit/s
95th percentile per-packet one-way delay: 142.233 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 44.82 Mbit/s
95th percentile per-packet one-way delay: 150.498 ms
Loss rate: 0.03%
```

Run 8: Report of TCP Cubic — Data Link



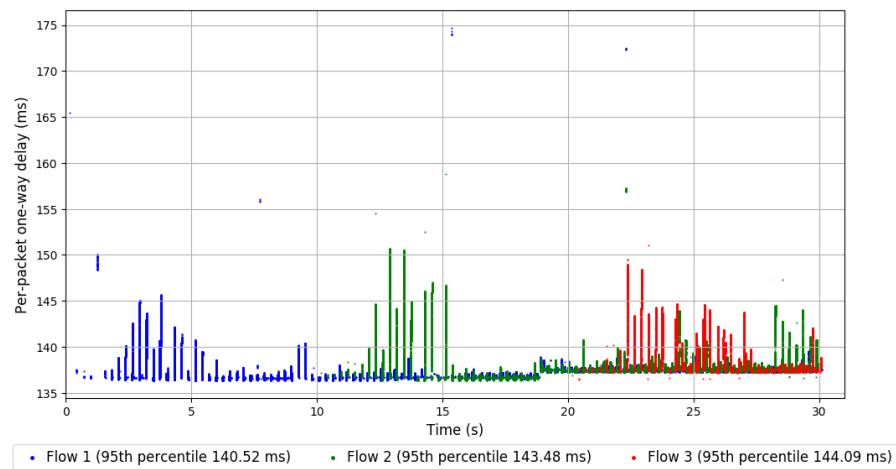
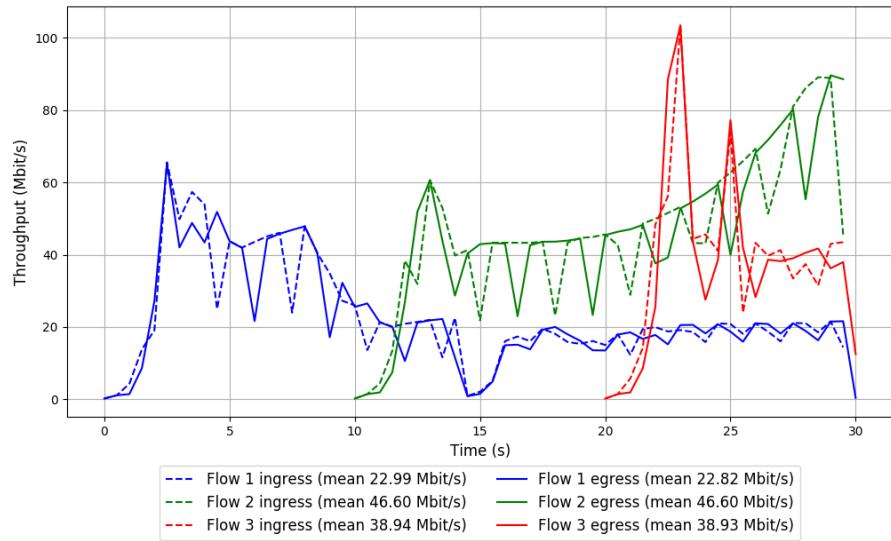
```
Run 9: Statistics of TCP Cubic
```

```
Start at: 2017-12-21 09:35:46
```

```
End at: 2017-12-21 09:36:16
```

```
# Below is generated by plot.py at 2017-12-21 11:19:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.62 Mbit/s
95th percentile per-packet one-way delay: 143.043 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 22.82 Mbit/s
95th percentile per-packet one-way delay: 140.517 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 46.60 Mbit/s
95th percentile per-packet one-way delay: 143.476 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 38.93 Mbit/s
95th percentile per-packet one-way delay: 144.087 ms
Loss rate: 0.00%
```

Run 9: Report of TCP Cubic — Data Link

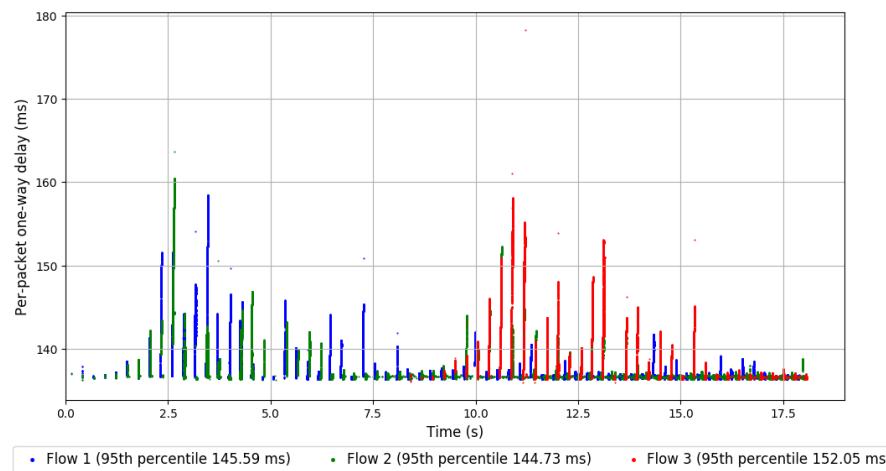
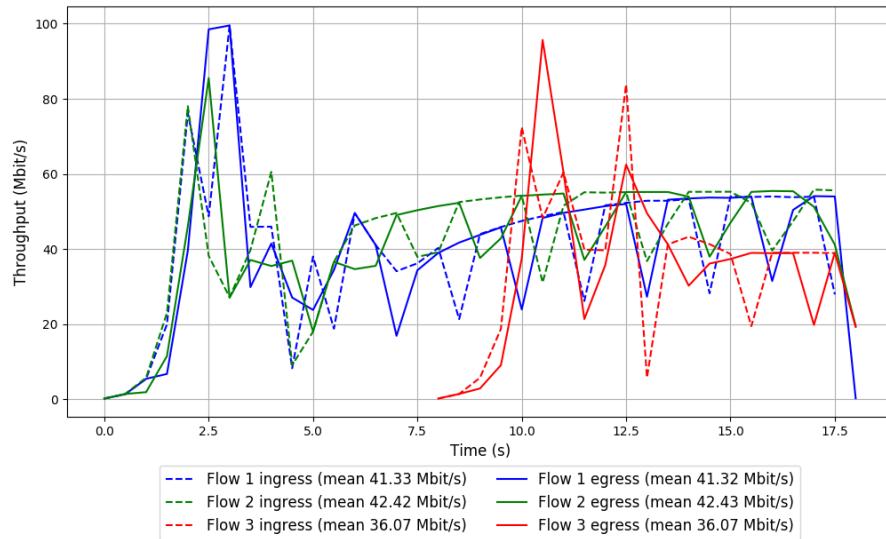


Run 10: Statistics of TCP Cubic

Start at: 2017-12-21 09:52:04

End at: 2017-12-21 09:52:34

Run 10: Report of TCP Cubic — Data Link

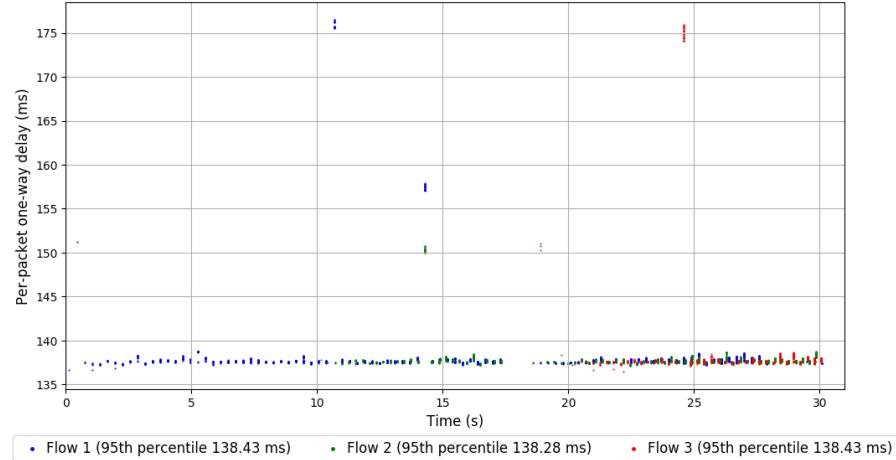
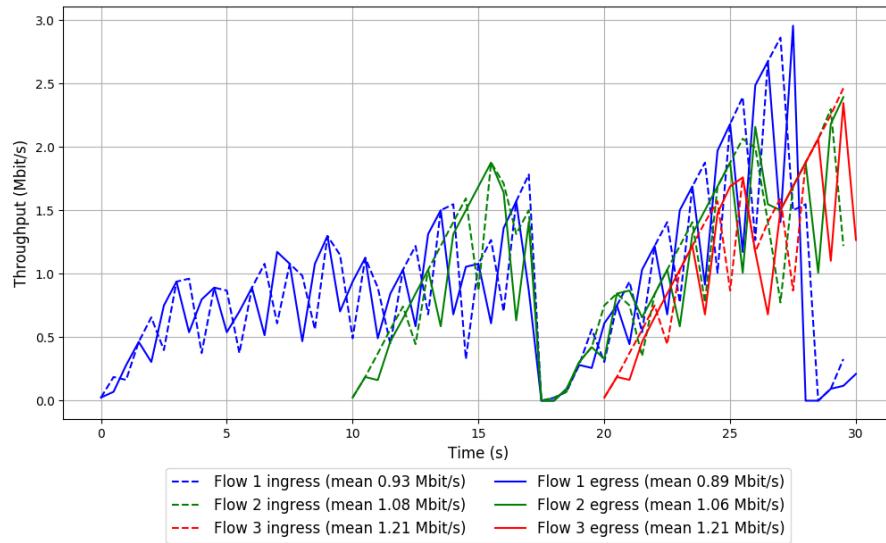


```
Run 1: Statistics of LEDBAT

Start at: 2017-12-21 07:31:48
End at: 2017-12-21 07:32:18

# Below is generated by plot.py at 2017-12-21 11:19:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 138.353 ms
Loss rate: 2.84%
-- Flow 1:
Average throughput: 0.89 Mbit/s
95th percentile per-packet one-way delay: 138.425 ms
Loss rate: 4.66%
-- Flow 2:
Average throughput: 1.06 Mbit/s
95th percentile per-packet one-way delay: 138.278 ms
Loss rate: 2.04%
-- Flow 3:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 138.426 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link



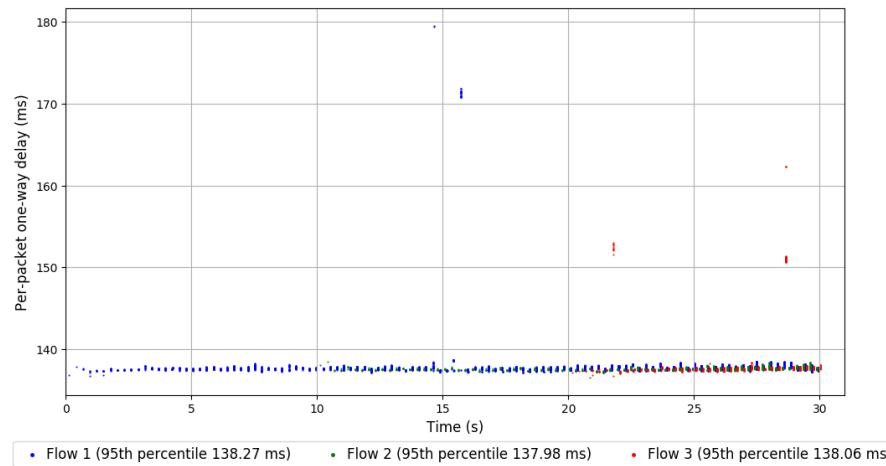
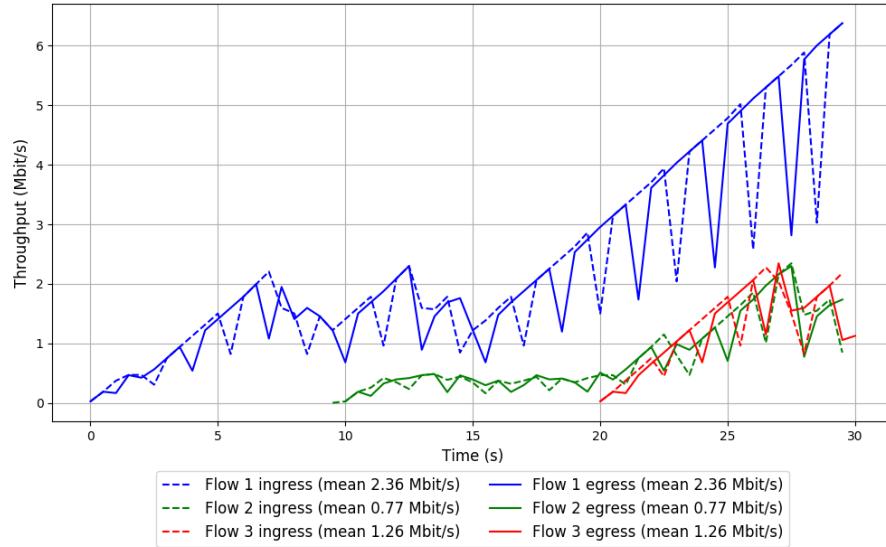
Run 2: Statistics of LEDBAT

Start at: 2017-12-21 07:46:47

End at: 2017-12-21 07:47:17

```
# Below is generated by plot.py at 2017-12-21 11:19:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.28 Mbit/s
95th percentile per-packet one-way delay: 138.229 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 138.272 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 0.77 Mbit/s
95th percentile per-packet one-way delay: 137.984 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 1.26 Mbit/s
95th percentile per-packet one-way delay: 138.063 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



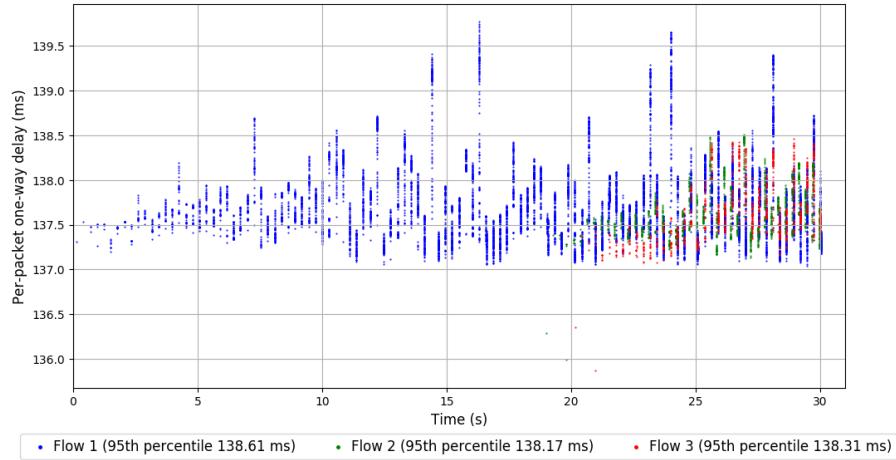
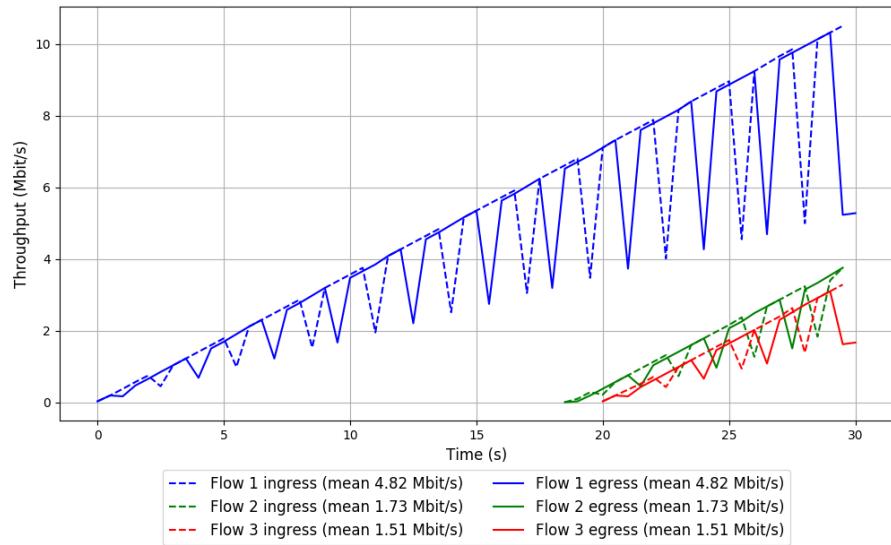
Run 3: Statistics of LEDBAT

Start at: 2017-12-21 08:02:48

End at: 2017-12-21 08:03:18

```
# Below is generated by plot.py at 2017-12-21 11:19:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.96 Mbit/s
95th percentile per-packet one-way delay: 138.511 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.82 Mbit/s
95th percentile per-packet one-way delay: 138.608 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.73 Mbit/s
95th percentile per-packet one-way delay: 138.174 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.51 Mbit/s
95th percentile per-packet one-way delay: 138.314 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link



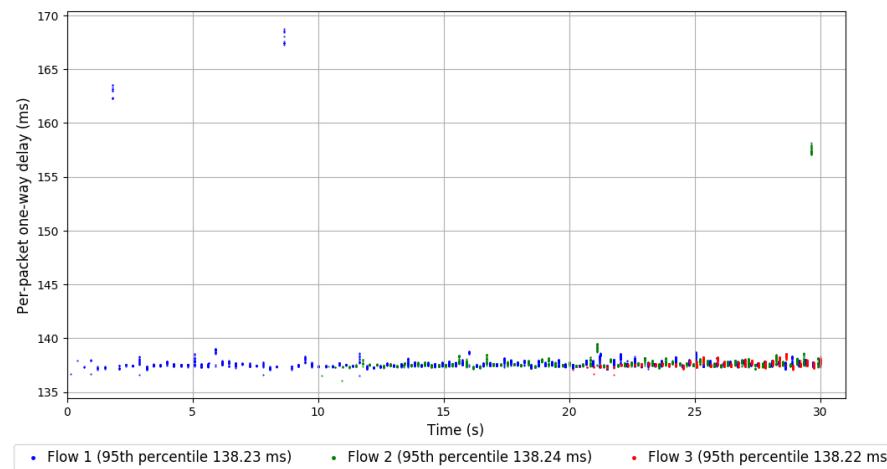
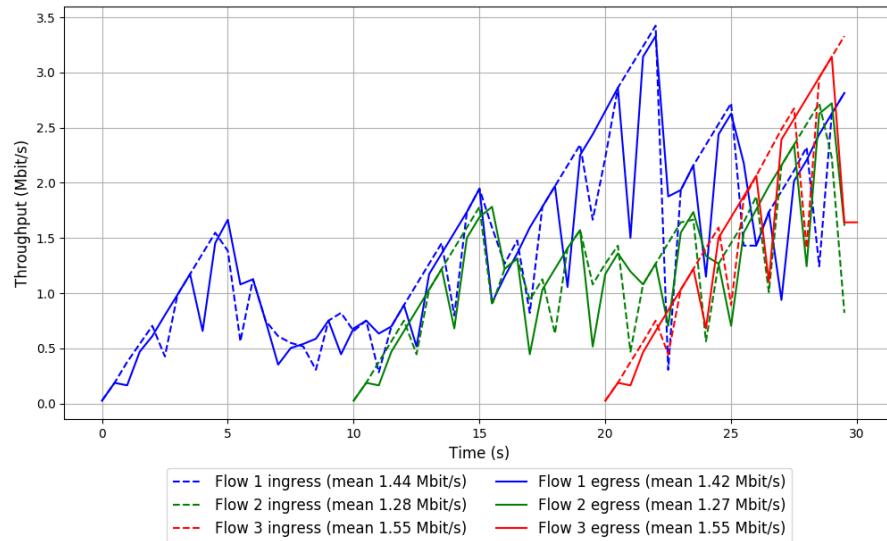
Run 4: Statistics of LEDBAT

Start at: 2017-12-21 08:19:05

End at: 2017-12-21 08:19:35

```
# Below is generated by plot.py at 2017-12-21 11:19:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.77 Mbit/s
95th percentile per-packet one-way delay: 138.232 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 138.233 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 1.27 Mbit/s
95th percentile per-packet one-way delay: 138.239 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 1.55 Mbit/s
95th percentile per-packet one-way delay: 138.222 ms
Loss rate: 0.15%
```

Run 4: Report of LEDBAT — Data Link



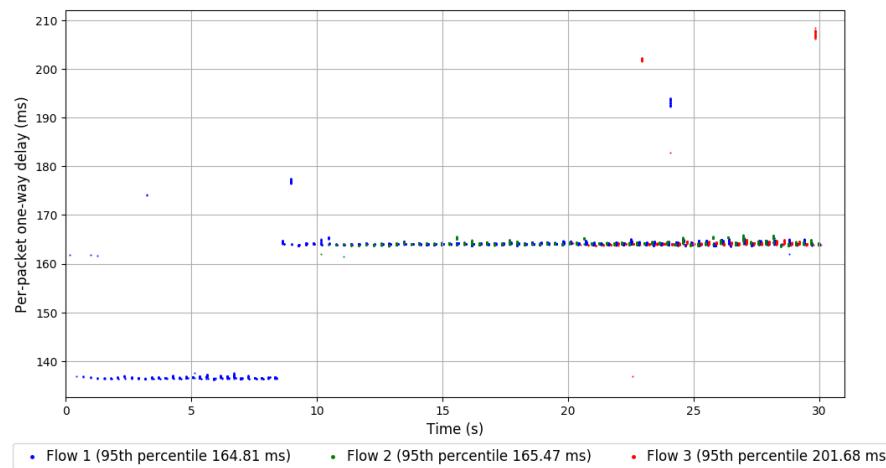
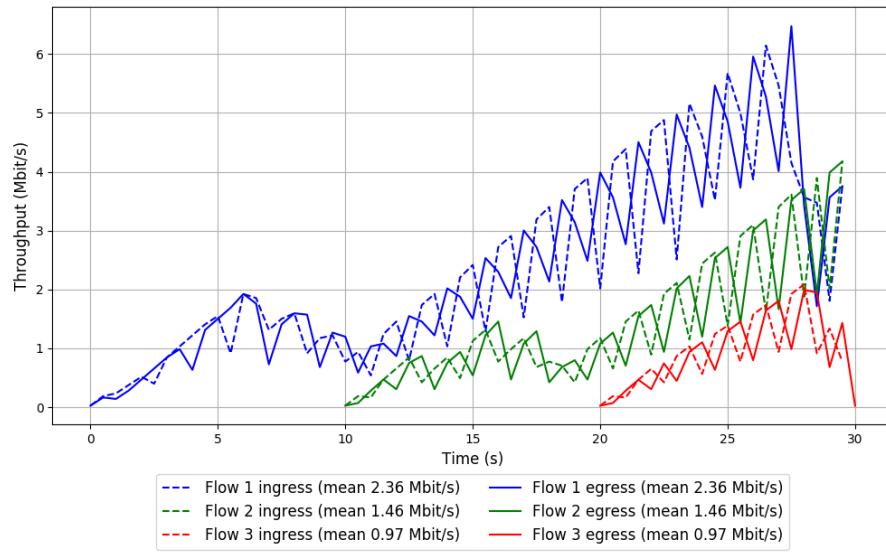
Run 5: Statistics of LEDBAT

Start at: 2017-12-21 08:34:36

End at: 2017-12-21 08:35:06

```
# Below is generated by plot.py at 2017-12-21 11:19:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.64 Mbit/s
95th percentile per-packet one-way delay: 165.080 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 164.810 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 165.466 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.97 Mbit/s
95th percentile per-packet one-way delay: 201.680 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link



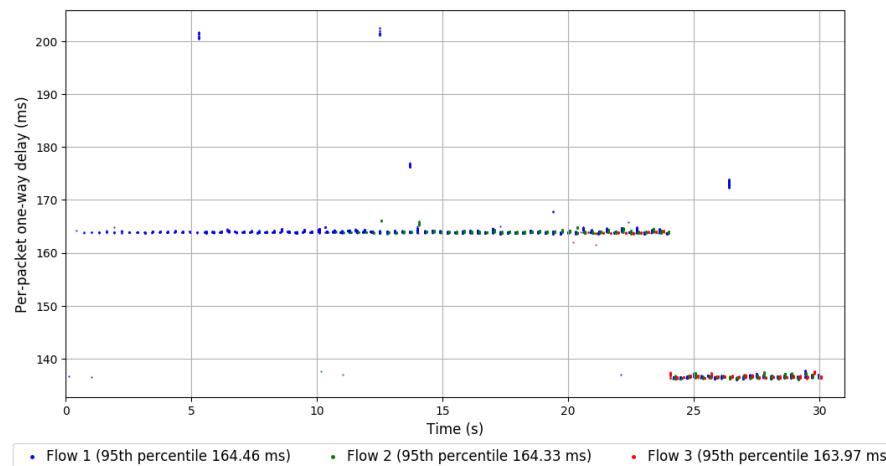
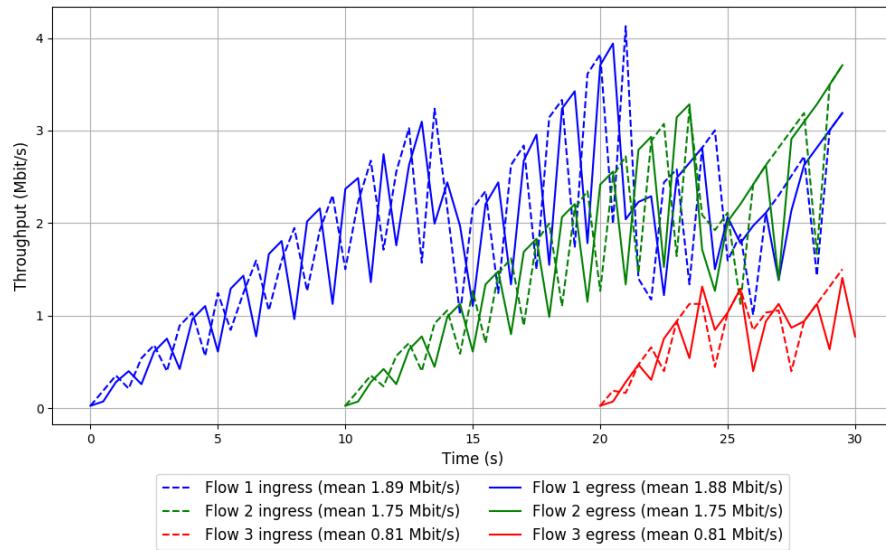
Run 6: Statistics of LEDBAT

Start at: 2017-12-21 08:50:11

End at: 2017-12-21 08:50:41

```
# Below is generated by plot.py at 2017-12-21 11:19:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.30 Mbit/s
95th percentile per-packet one-way delay: 164.383 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 164.461 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 1.75 Mbit/s
95th percentile per-packet one-way delay: 164.331 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 0.81 Mbit/s
95th percentile per-packet one-way delay: 163.969 ms
Loss rate: 0.00%
```

Run 6: Report of LEDBAT — Data Link



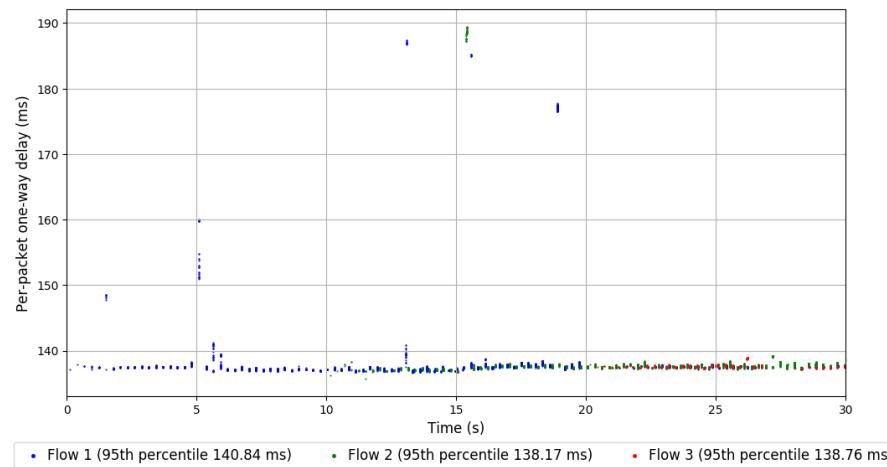
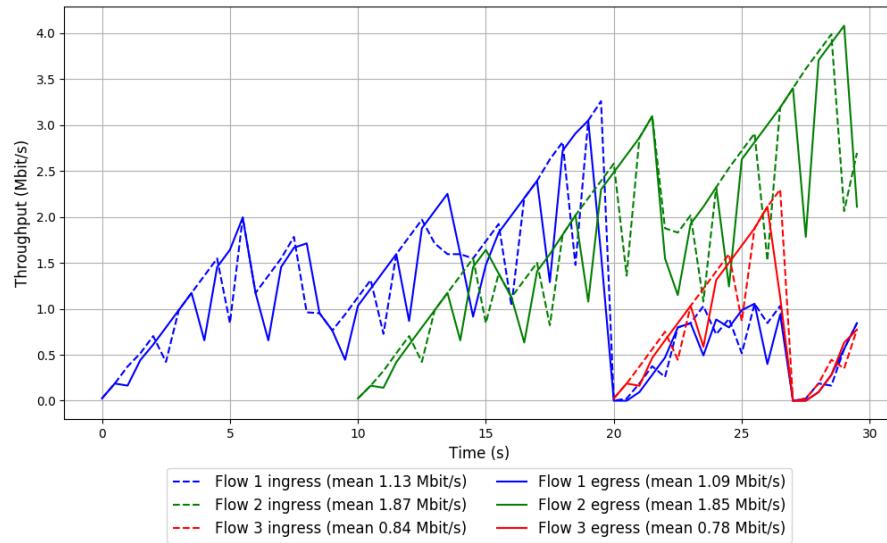
Run 7: Statistics of LEDBAT

Start at: 2017-12-21 09:05:49

End at: 2017-12-21 09:06:19

```
# Below is generated by plot.py at 2017-12-21 11:19:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.58 Mbit/s
95th percentile per-packet one-way delay: 138.741 ms
Loss rate: 2.66%
-- Flow 1:
Average throughput: 1.09 Mbit/s
95th percentile per-packet one-way delay: 140.843 ms
Loss rate: 3.51%
-- Flow 2:
Average throughput: 1.85 Mbit/s
95th percentile per-packet one-way delay: 138.174 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 138.761 ms
Loss rate: 7.09%
```

Run 7: Report of LEDBAT — Data Link



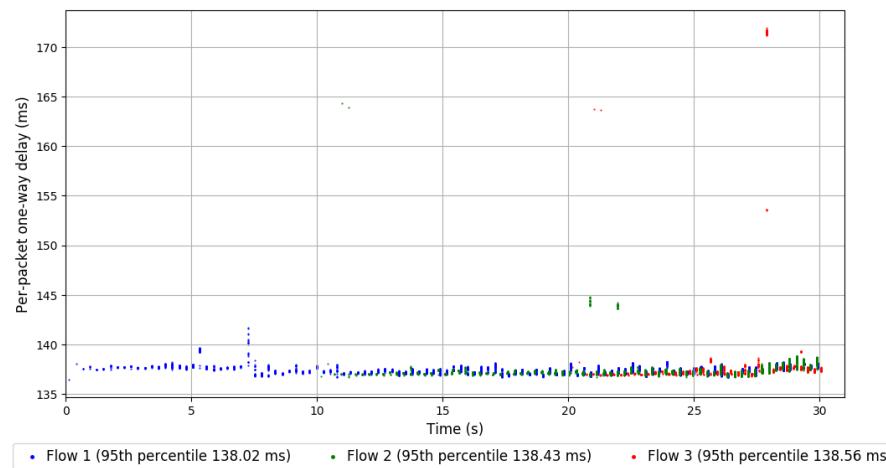
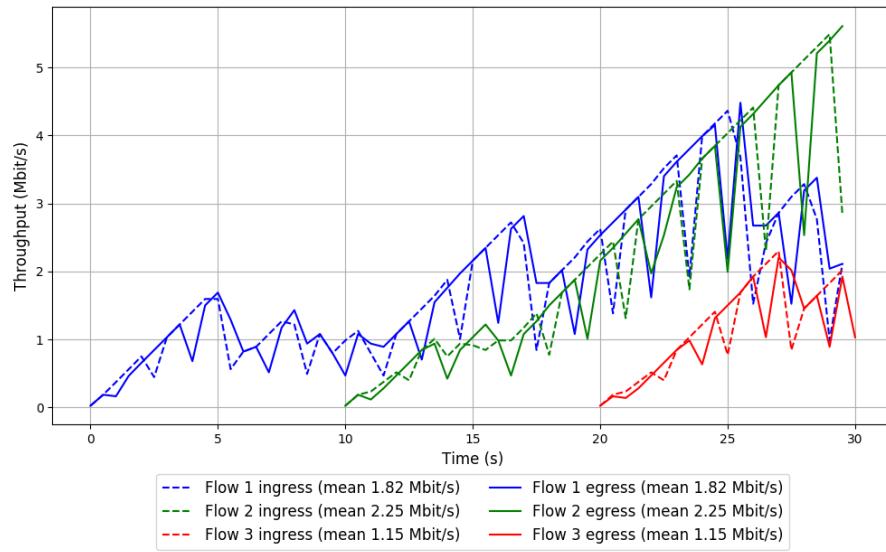
Run 8: Statistics of LEDBAT

Start at: 2017-12-21 09:22:07

End at: 2017-12-21 09:22:37

```
# Below is generated by plot.py at 2017-12-21 11:19:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.67 Mbit/s
95th percentile per-packet one-way delay: 138.155 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 138.021 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 138.433 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.15 Mbit/s
95th percentile per-packet one-way delay: 138.557 ms
Loss rate: 0.00%
```

Run 8: Report of LEDBAT — Data Link



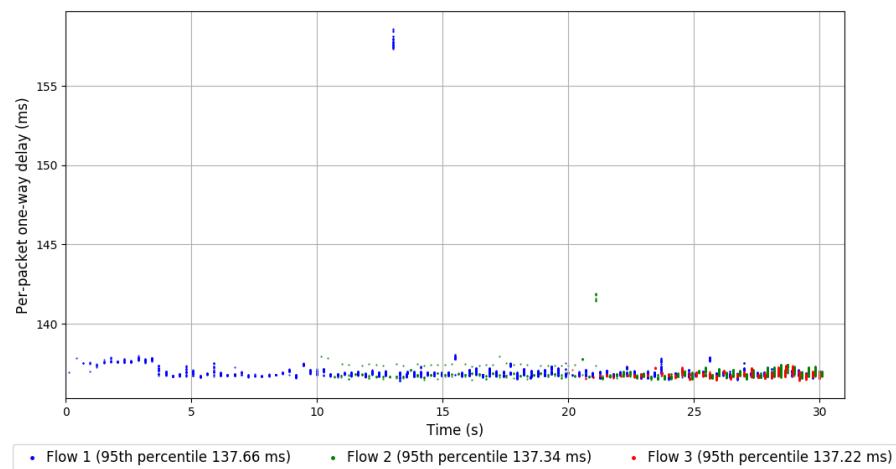
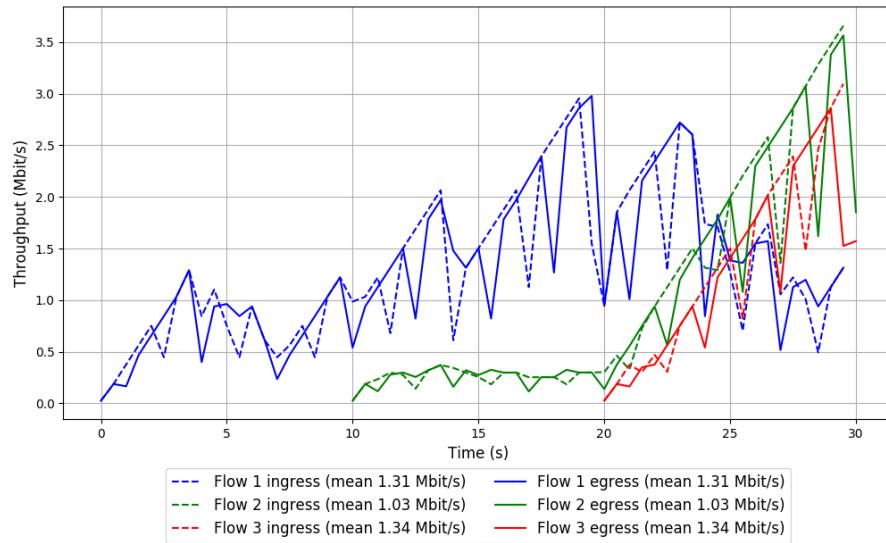
Run 9: Statistics of LEDBAT

Start at: 2017-12-21 09:38:21

End at: 2017-12-21 09:38:51

```
# Below is generated by plot.py at 2017-12-21 11:19:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 137.408 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 137.656 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 1.03 Mbit/s
95th percentile per-packet one-way delay: 137.335 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.34 Mbit/s
95th percentile per-packet one-way delay: 137.218 ms
Loss rate: 0.00%
```

Run 9: Report of LEDBAT — Data Link



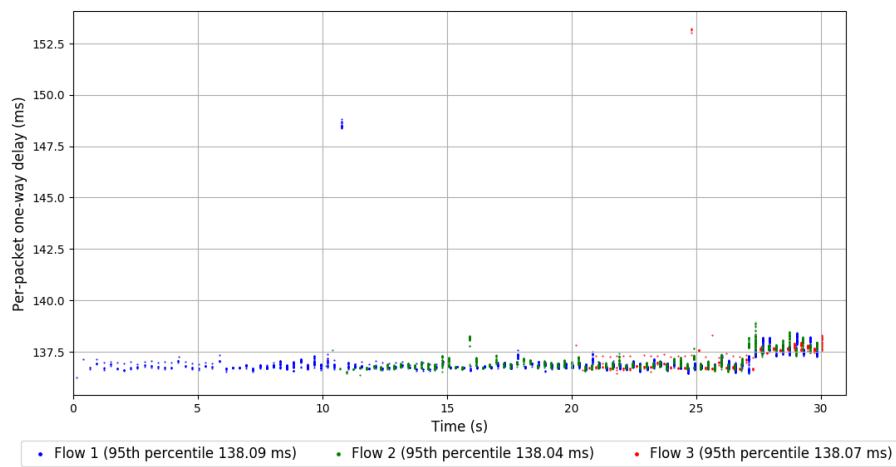
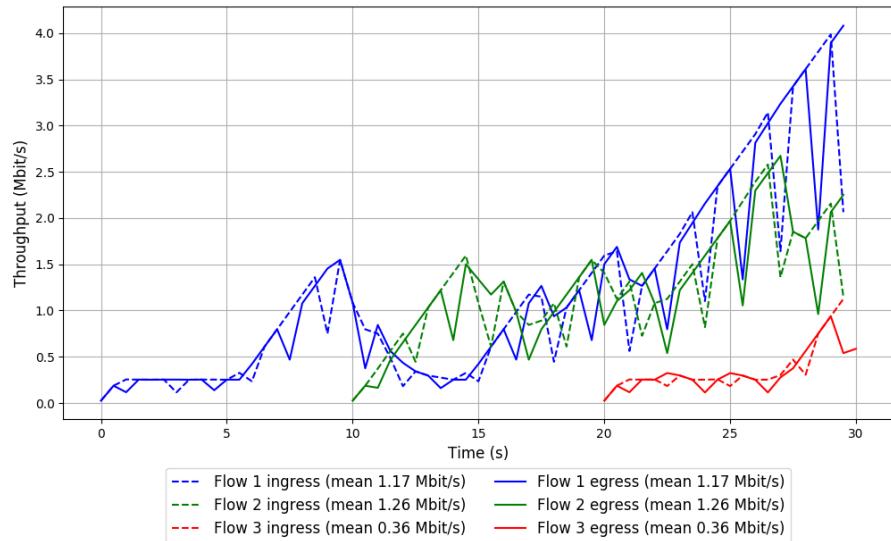
Run 10: Statistics of LEDBAT

Start at: 2017-12-21 09:54:37

End at: 2017-12-21 09:55:07

```
# Below is generated by plot.py at 2017-12-21 11:19:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 138.080 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.17 Mbit/s
95th percentile per-packet one-way delay: 138.087 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.26 Mbit/s
95th percentile per-packet one-way delay: 138.039 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 138.073 ms
Loss rate: 0.00%
```

Run 10: Report of LEDBAT — Data Link

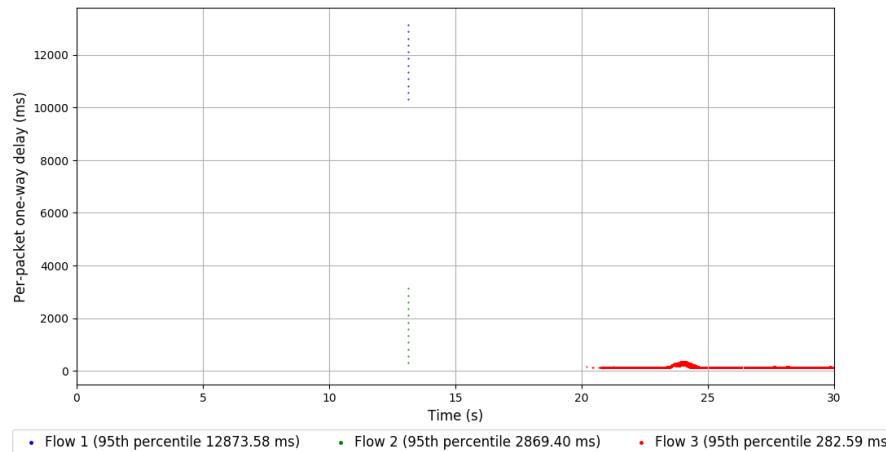
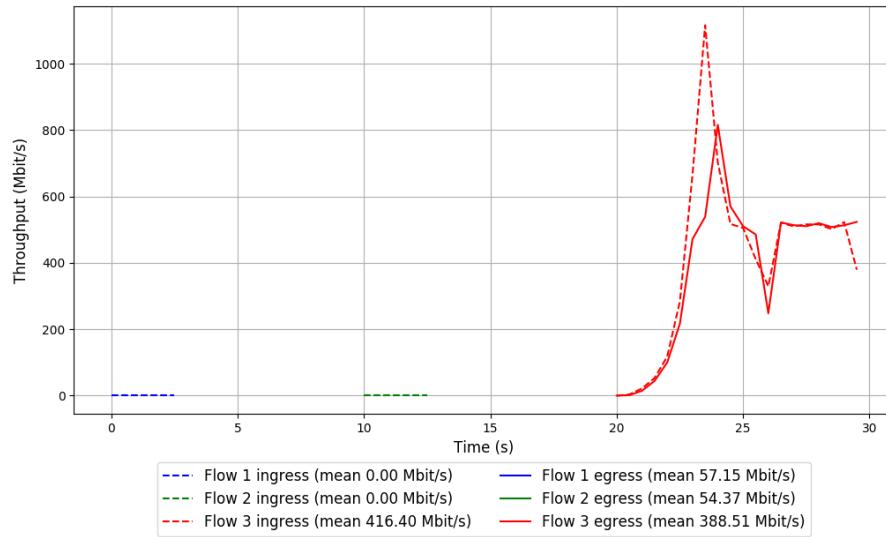


Run 1: Statistics of PCC

Start at: 2017-12-21 07:35:37

End at: 2017-12-21 07:36:07

Run 1: Report of PCC — Data Link



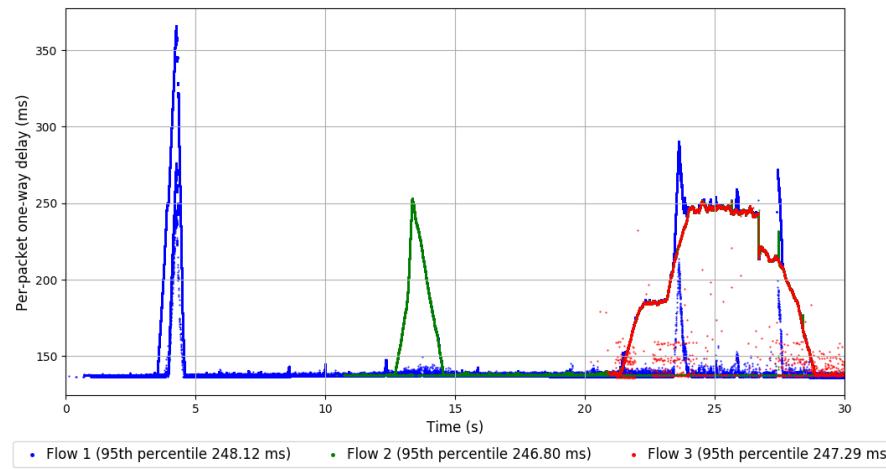
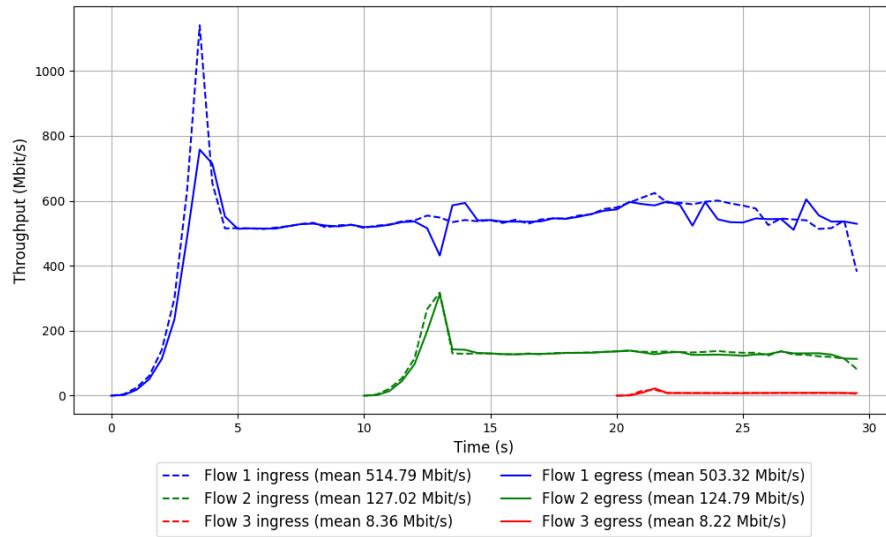
Run 2: Statistics of PCC

Start at: 2017-12-21 07:50:56

End at: 2017-12-21 07:51:26

```
# Below is generated by plot.py at 2017-12-21 11:28:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 588.87 Mbit/s
95th percentile per-packet one-way delay: 247.743 ms
Loss rate: 2.16%
-- Flow 1:
Average throughput: 503.32 Mbit/s
95th percentile per-packet one-way delay: 248.115 ms
Loss rate: 2.23%
-- Flow 2:
Average throughput: 124.79 Mbit/s
95th percentile per-packet one-way delay: 246.802 ms
Loss rate: 1.76%
-- Flow 3:
Average throughput: 8.22 Mbit/s
95th percentile per-packet one-way delay: 247.294 ms
Loss rate: 1.74%
```

Run 2: Report of PCC — Data Link



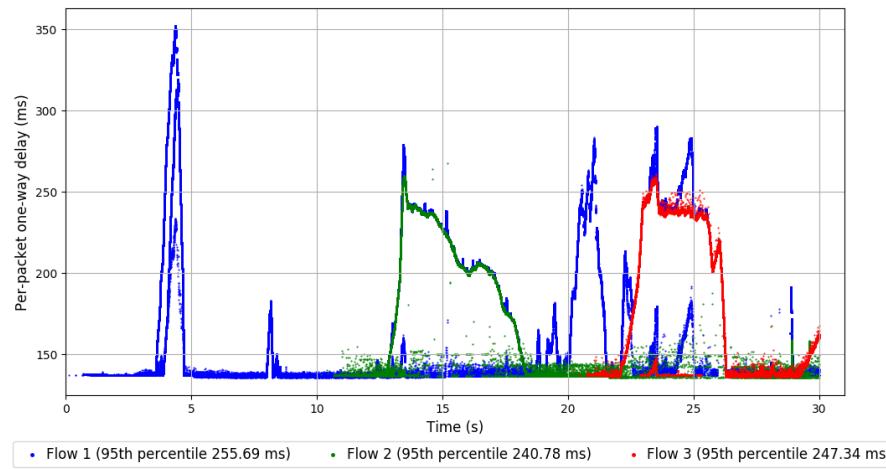
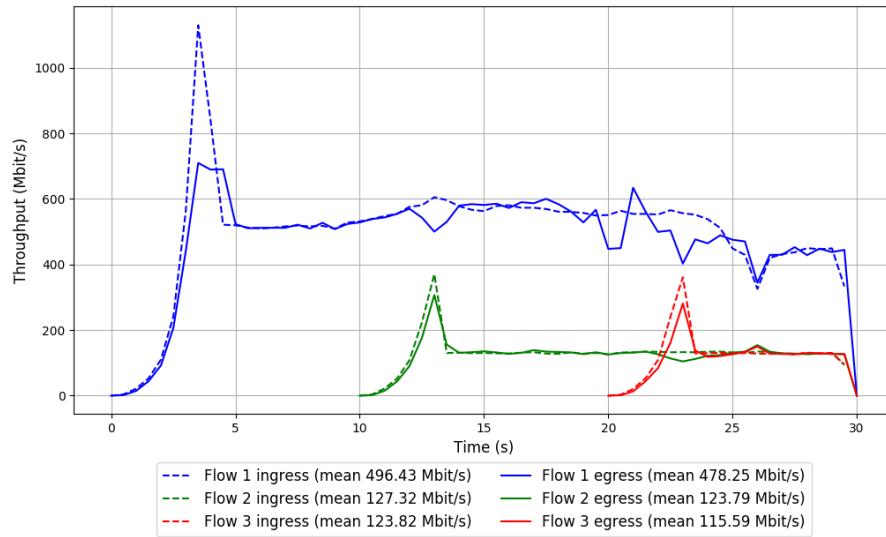
Run 3: Statistics of PCC

Start at: 2017-12-21 08:06:53

End at: 2017-12-21 08:07:23

```
# Below is generated by plot.py at 2017-12-21 11:28:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 598.47 Mbit/s
95th percentile per-packet one-way delay: 251.436 ms
Loss rate: 3.74%
-- Flow 1:
Average throughput: 478.25 Mbit/s
95th percentile per-packet one-way delay: 255.692 ms
Loss rate: 3.66%
-- Flow 2:
Average throughput: 123.79 Mbit/s
95th percentile per-packet one-way delay: 240.782 ms
Loss rate: 2.77%
-- Flow 3:
Average throughput: 115.59 Mbit/s
95th percentile per-packet one-way delay: 247.337 ms
Loss rate: 6.67%
```

Run 3: Report of PCC — Data Link



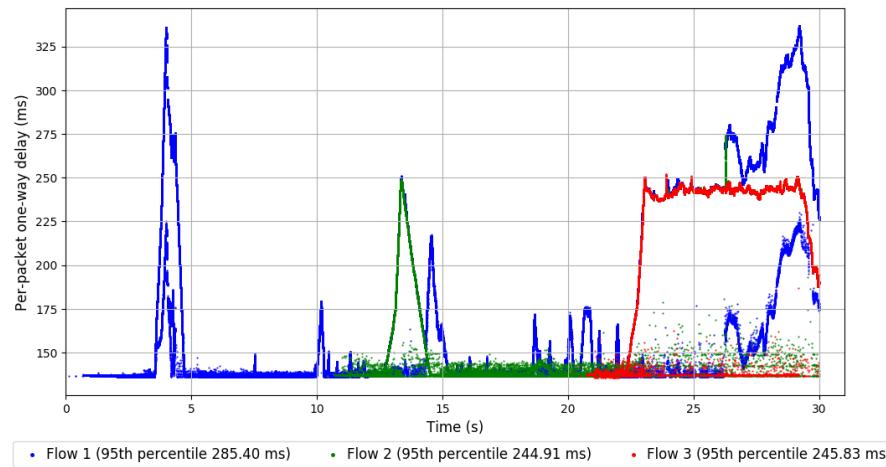
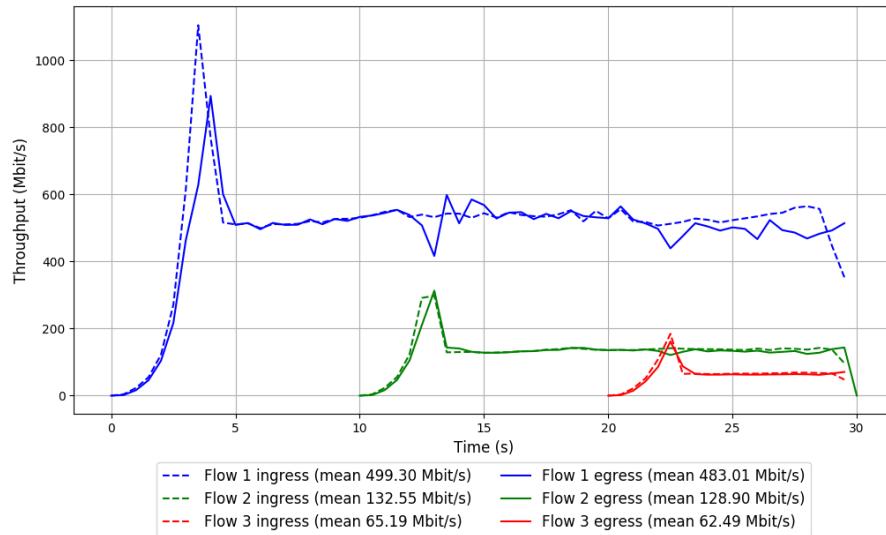
Run 4: Statistics of PCC

Start at: 2017-12-21 08:23:16

End at: 2017-12-21 08:23:46

```
# Below is generated by plot.py at 2017-12-21 11:28:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 589.14 Mbit/s
95th percentile per-packet one-way delay: 278.146 ms
Loss rate: 3.21%
-- Flow 1:
Average throughput: 483.01 Mbit/s
95th percentile per-packet one-way delay: 285.404 ms
Loss rate: 3.26%
-- Flow 2:
Average throughput: 128.90 Mbit/s
95th percentile per-packet one-way delay: 244.911 ms
Loss rate: 2.73%
-- Flow 3:
Average throughput: 62.49 Mbit/s
95th percentile per-packet one-way delay: 245.833 ms
Loss rate: 4.14%
```

Run 4: Report of PCC — Data Link



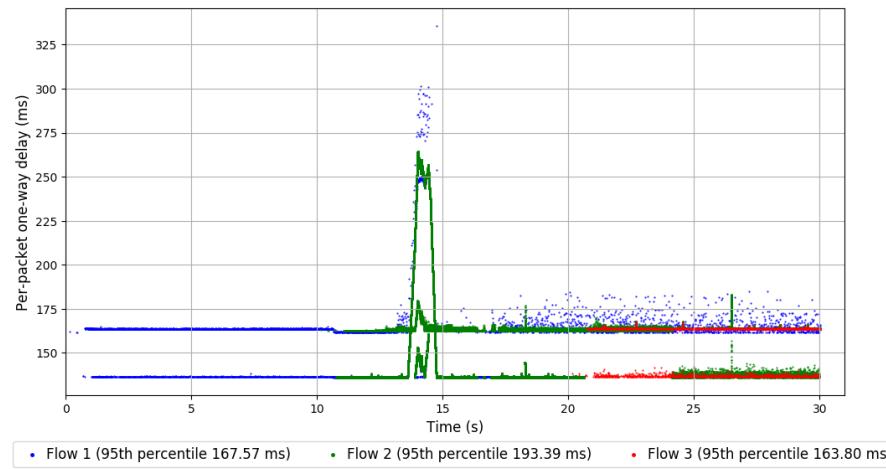
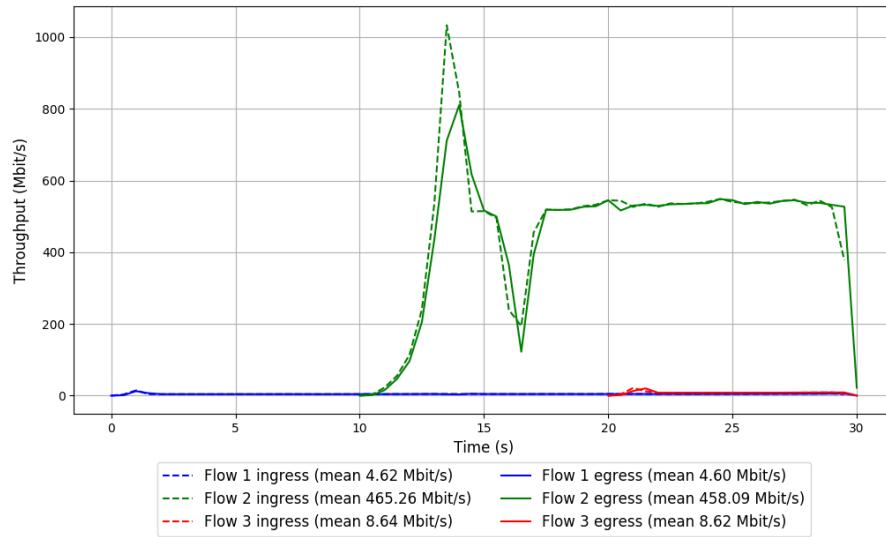
Run 5: Statistics of PCC

Start at: 2017-12-21 08:38:44

End at: 2017-12-21 08:39:14

```
# Below is generated by plot.py at 2017-12-21 11:28:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 311.97 Mbit/s
95th percentile per-packet one-way delay: 191.446 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 4.60 Mbit/s
95th percentile per-packet one-way delay: 167.575 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 458.09 Mbit/s
95th percentile per-packet one-way delay: 193.386 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 8.62 Mbit/s
95th percentile per-packet one-way delay: 163.803 ms
Loss rate: 0.00%
```

Run 5: Report of PCC — Data Link



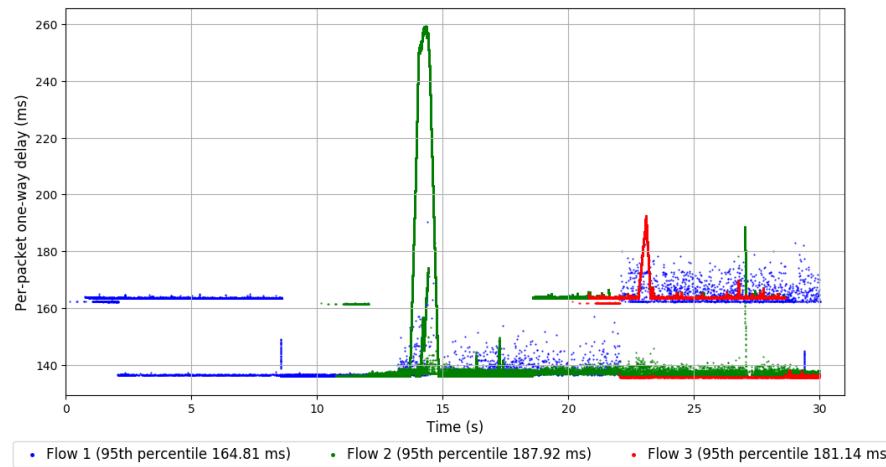
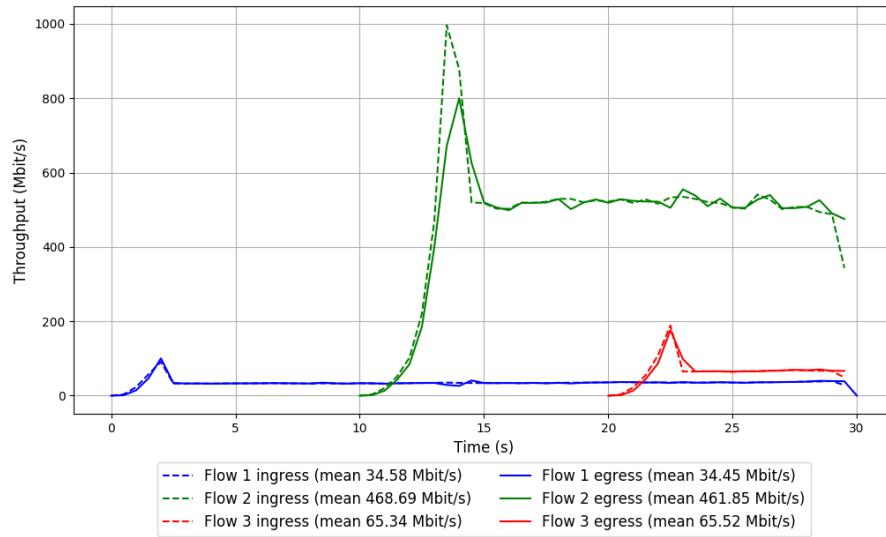
Run 6: Statistics of PCC

Start at: 2017-12-21 08:54:16

End at: 2017-12-21 08:54:46

```
# Below is generated by plot.py at 2017-12-21 11:28:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 362.81 Mbit/s
95th percentile per-packet one-way delay: 185.202 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 34.45 Mbit/s
95th percentile per-packet one-way delay: 164.811 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 461.85 Mbit/s
95th percentile per-packet one-way delay: 187.924 ms
Loss rate: 1.59%
-- Flow 3:
Average throughput: 65.52 Mbit/s
95th percentile per-packet one-way delay: 181.144 ms
Loss rate: 0.00%
```

Run 6: Report of PCC — Data Link



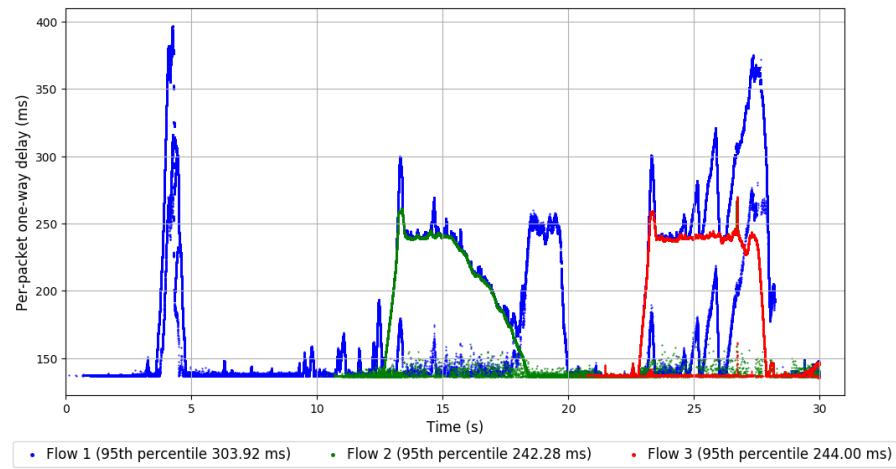
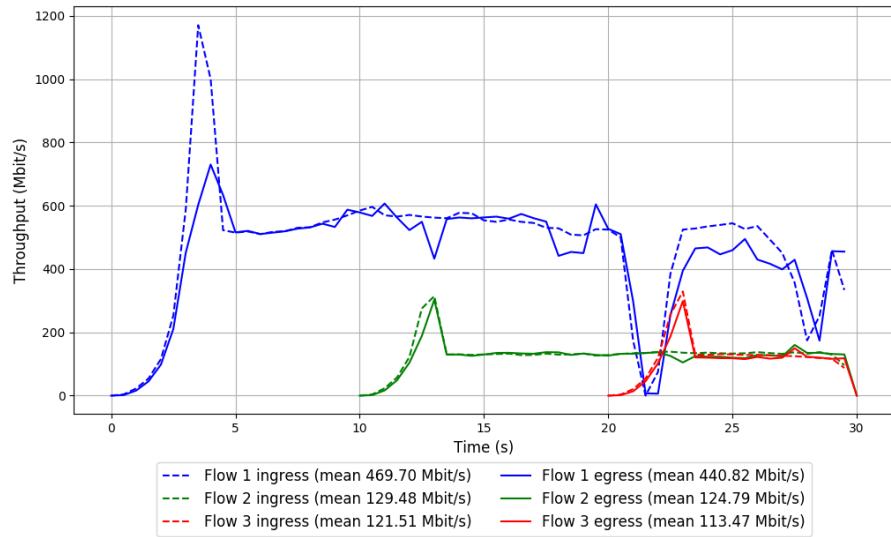
Run 7: Statistics of PCC

Start at: 2017-12-21 09:09:55

End at: 2017-12-21 09:10:25

```
# Below is generated by plot.py at 2017-12-21 11:28:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 561.06 Mbit/s
95th percentile per-packet one-way delay: 291.261 ms
Loss rate: 5.81%
-- Flow 1:
Average throughput: 440.82 Mbit/s
95th percentile per-packet one-way delay: 303.923 ms
Loss rate: 6.15%
-- Flow 2:
Average throughput: 124.79 Mbit/s
95th percentile per-packet one-way delay: 242.284 ms
Loss rate: 3.61%
-- Flow 3:
Average throughput: 113.47 Mbit/s
95th percentile per-packet one-way delay: 243.998 ms
Loss rate: 6.60%
```

Run 7: Report of PCC — Data Link



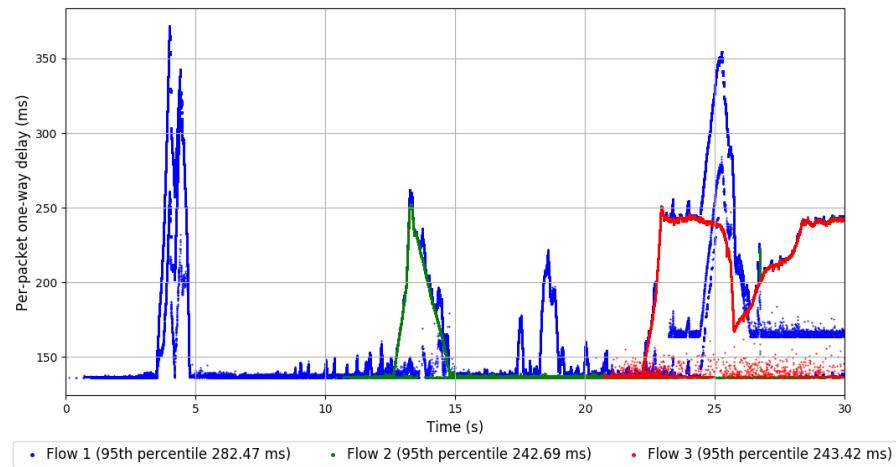
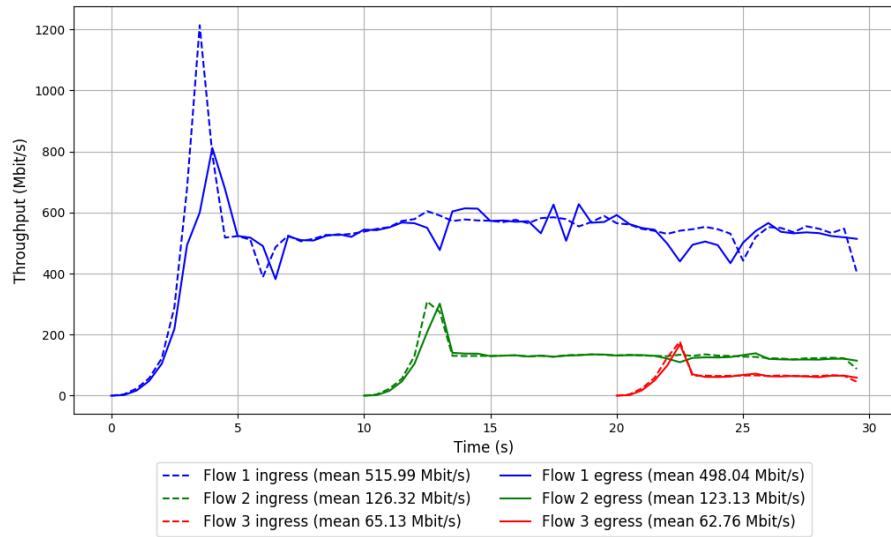
Run 8: Statistics of PCC

Start at: 2017-12-21 09:26:15

End at: 2017-12-21 09:26:45

```
# Below is generated by plot.py at 2017-12-21 11:29:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 600.53 Mbit/s
95th percentile per-packet one-way delay: 264.974 ms
Loss rate: 3.35%
-- Flow 1:
Average throughput: 498.04 Mbit/s
95th percentile per-packet one-way delay: 282.471 ms
Loss rate: 3.47%
-- Flow 2:
Average throughput: 123.13 Mbit/s
95th percentile per-packet one-way delay: 242.695 ms
Loss rate: 2.52%
-- Flow 3:
Average throughput: 62.76 Mbit/s
95th percentile per-packet one-way delay: 243.424 ms
Loss rate: 3.63%
```

Run 8: Report of PCC — Data Link



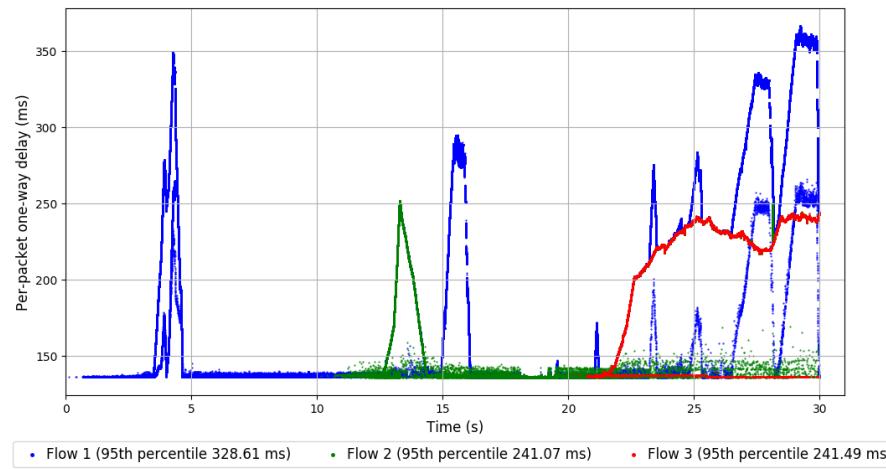
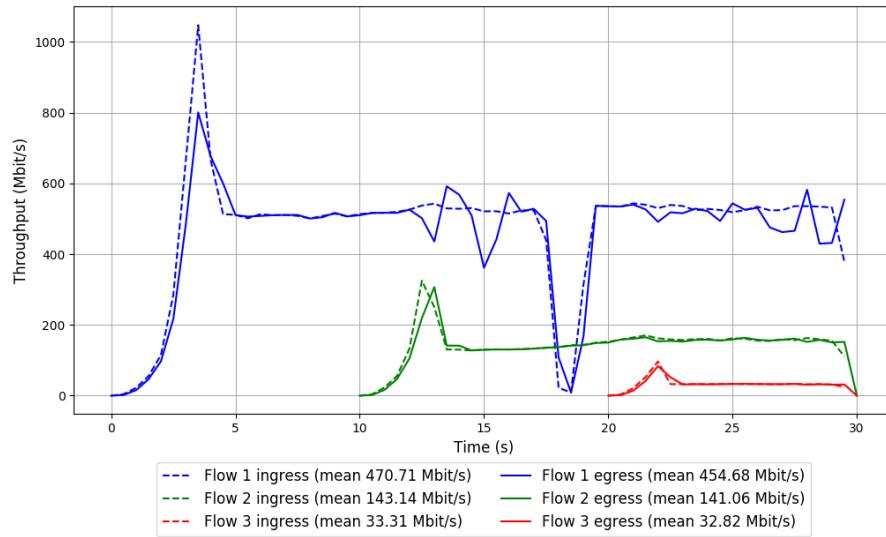
Run 9: Statistics of PCC

Start at: 2017-12-21 09:42:29

End at: 2017-12-21 09:42:59

```
# Below is generated by plot.py at 2017-12-21 11:30:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 559.21 Mbit/s
95th percentile per-packet one-way delay: 317.654 ms
Loss rate: 3.04%
-- Flow 1:
Average throughput: 454.68 Mbit/s
95th percentile per-packet one-way delay: 328.610 ms
Loss rate: 3.40%
-- Flow 2:
Average throughput: 141.06 Mbit/s
95th percentile per-packet one-way delay: 241.073 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 32.82 Mbit/s
95th percentile per-packet one-way delay: 241.493 ms
Loss rate: 1.45%
```

Run 9: Report of PCC — Data Link



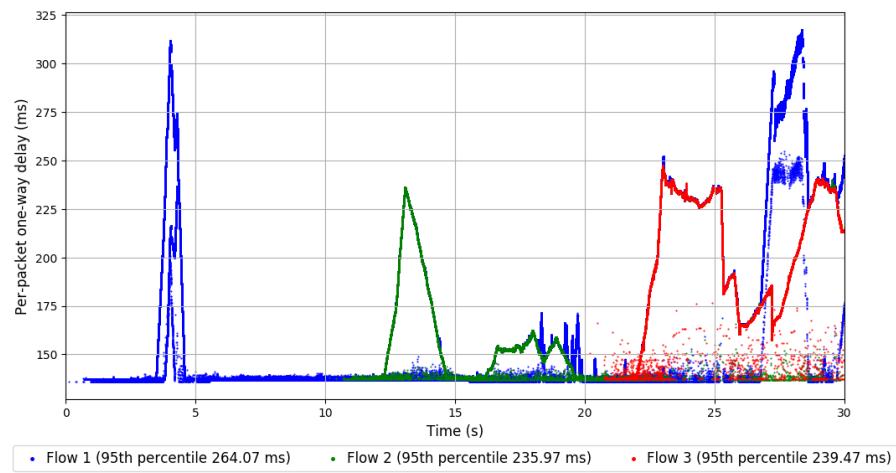
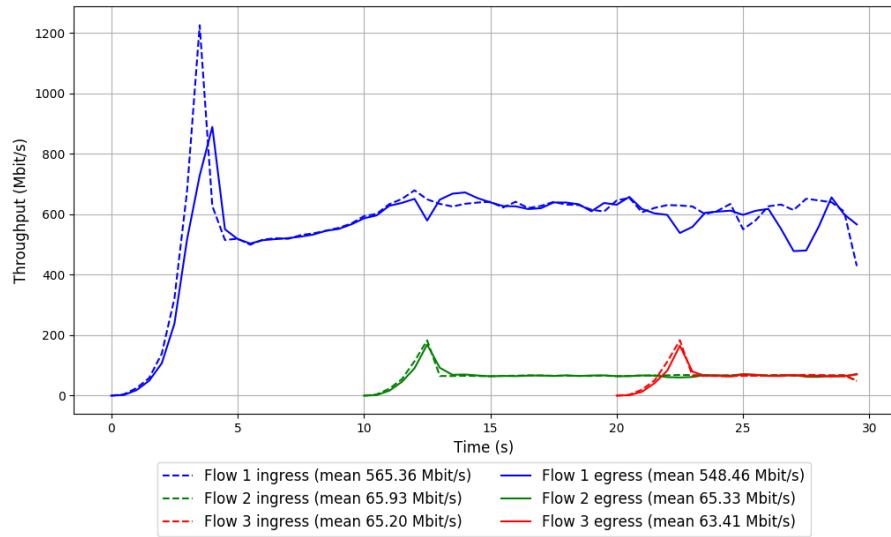
Run 10: Statistics of PCC

Start at: 2017-12-21 09:58:43

End at: 2017-12-21 09:59:13

```
# Below is generated by plot.py at 2017-12-21 11:35:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 612.65 Mbit/s
95th percentile per-packet one-way delay: 256.454 ms
Loss rate: 2.84%
-- Flow 1:
Average throughput: 548.46 Mbit/s
95th percentile per-packet one-way delay: 264.072 ms
Loss rate: 2.99%
-- Flow 2:
Average throughput: 65.33 Mbit/s
95th percentile per-packet one-way delay: 235.975 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 63.41 Mbit/s
95th percentile per-packet one-way delay: 239.472 ms
Loss rate: 2.92%
```

Run 10: Report of PCC — Data Link

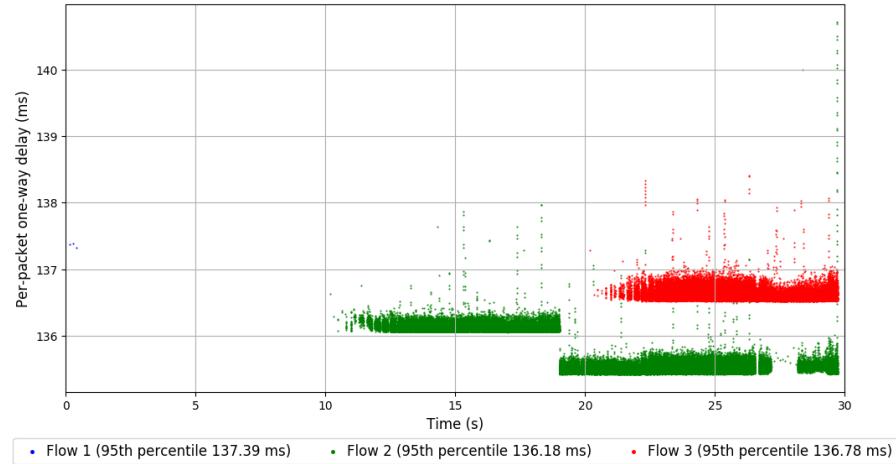
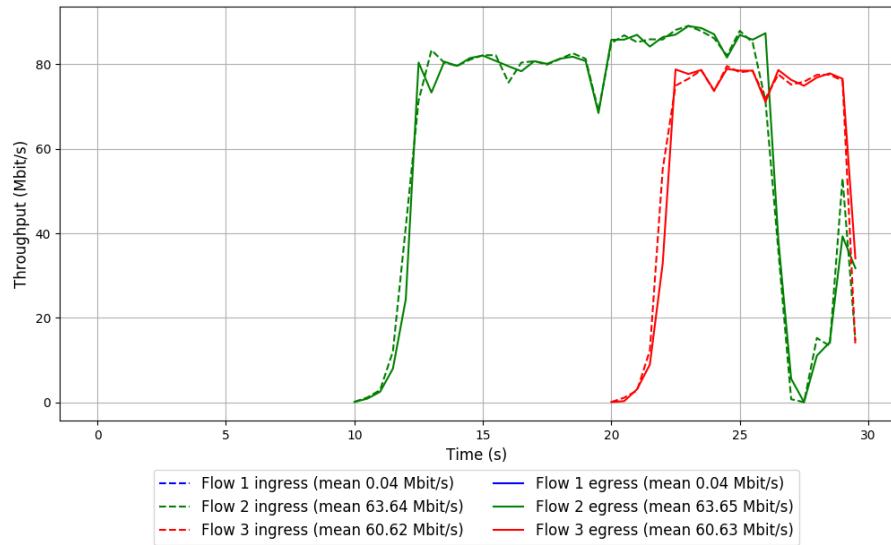


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-12-21 07:28:19
End at: 2017-12-21 07:28:49

# Below is generated by plot.py at 2017-12-21 11:35:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.61 Mbit/s
95th percentile per-packet one-way delay: 136.686 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 137.394 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 63.65 Mbit/s
95th percentile per-packet one-way delay: 136.179 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 60.63 Mbit/s
95th percentile per-packet one-way delay: 136.782 ms
Loss rate: 0.00%
```

Run 1: Report of QUIC Cubic — Data Link



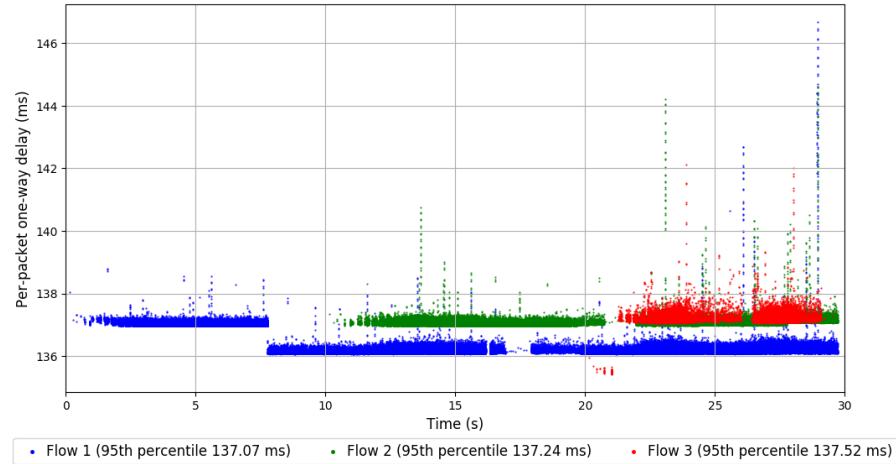
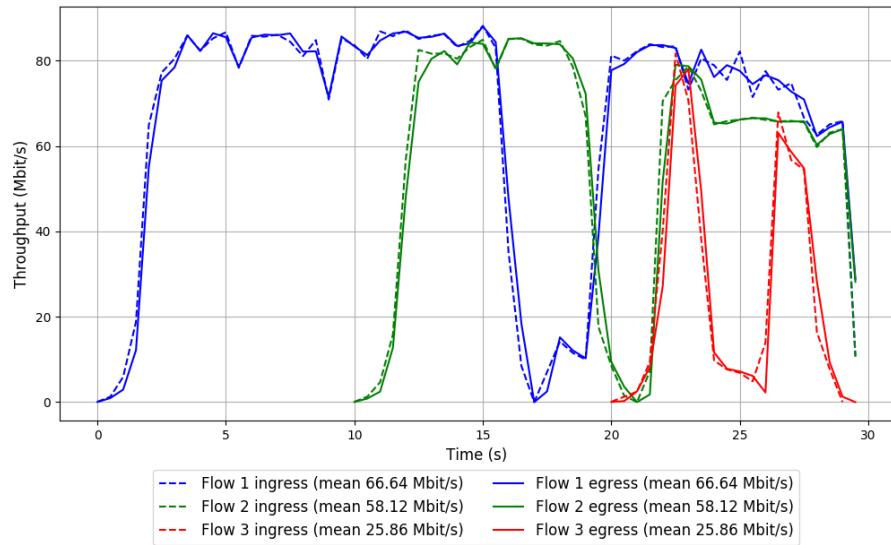
Run 2: Statistics of QUIC Cubic

Start at: 2017-12-21 07:43:17

End at: 2017-12-21 07:43:47

```
# Below is generated by plot.py at 2017-12-21 11:35:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 113.38 Mbit/s
95th percentile per-packet one-way delay: 137.220 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 66.64 Mbit/s
95th percentile per-packet one-way delay: 137.070 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 58.12 Mbit/s
95th percentile per-packet one-way delay: 137.237 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 25.86 Mbit/s
95th percentile per-packet one-way delay: 137.521 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link



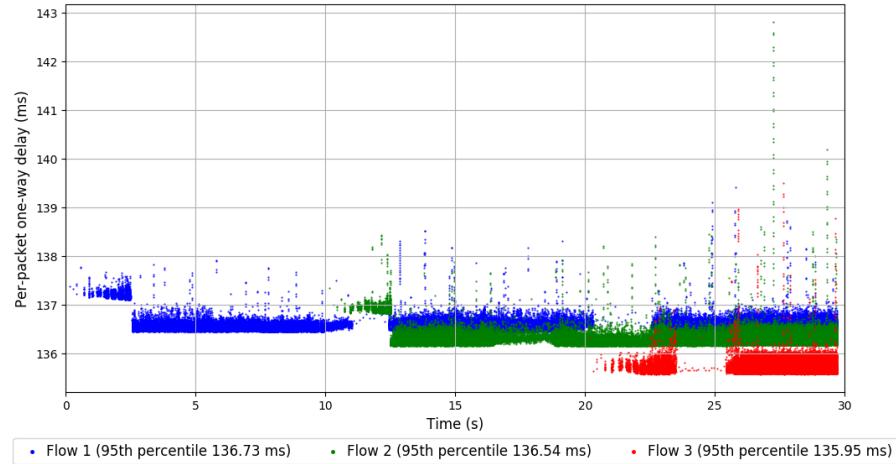
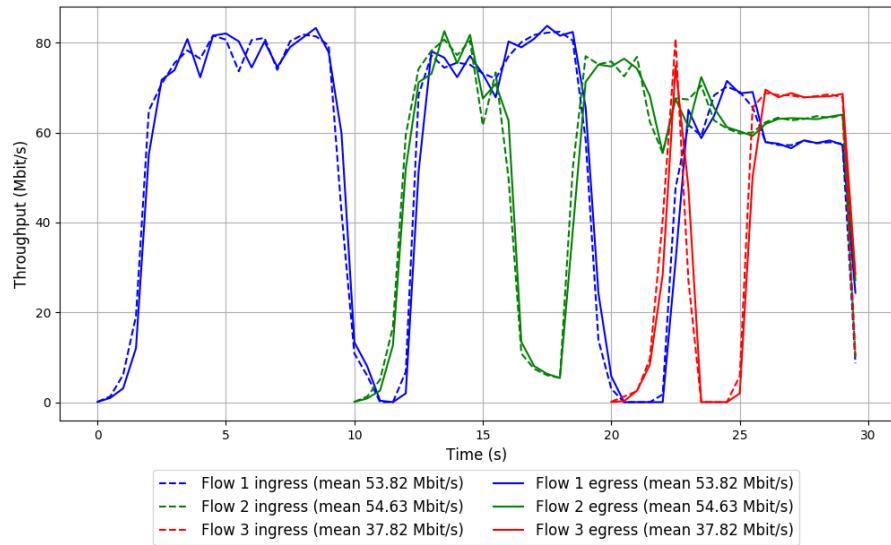
```
Run 3: Statistics of QUIC Cubic
```

```
Start at: 2017-12-21 07:59:15
```

```
End at: 2017-12-21 07:59:45
```

```
# Below is generated by plot.py at 2017-12-21 11:35:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 102.14 Mbit/s
95th percentile per-packet one-way delay: 136.692 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 53.82 Mbit/s
95th percentile per-packet one-way delay: 136.733 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 54.63 Mbit/s
95th percentile per-packet one-way delay: 136.545 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 37.82 Mbit/s
95th percentile per-packet one-way delay: 135.950 ms
Loss rate: 0.00%
```

Run 3: Report of QUIC Cubic — Data Link



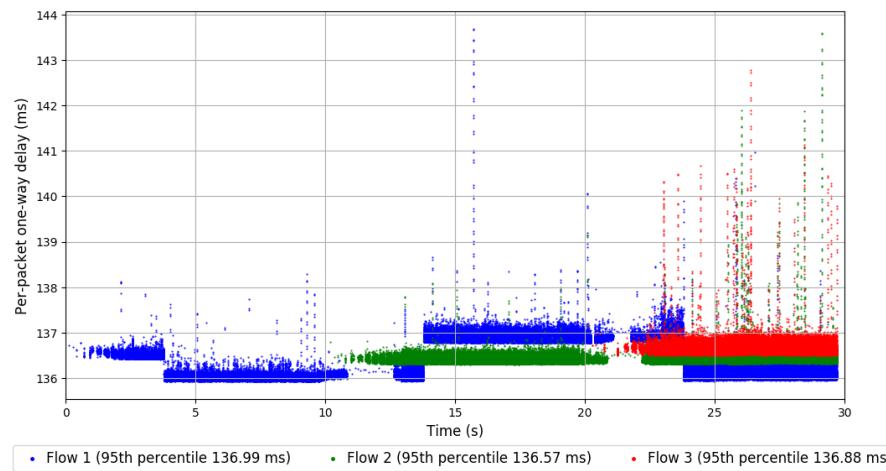
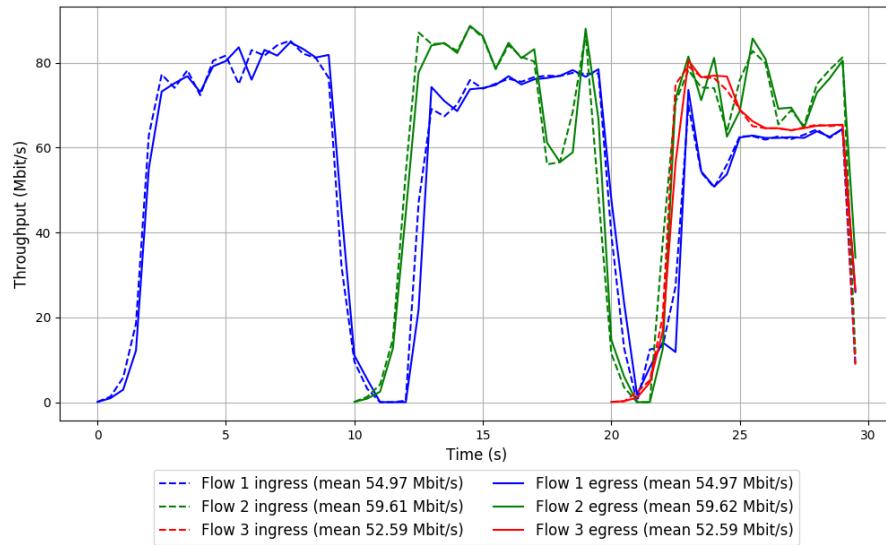
Run 4: Statistics of QUIC Cubic

Start at: 2017-12-21 08:15:34

End at: 2017-12-21 08:16:04

```
# Below is generated by plot.py at 2017-12-21 11:35:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 111.33 Mbit/s
95th percentile per-packet one-way delay: 136.933 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 54.97 Mbit/s
95th percentile per-packet one-way delay: 136.990 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 59.62 Mbit/s
95th percentile per-packet one-way delay: 136.574 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 52.59 Mbit/s
95th percentile per-packet one-way delay: 136.879 ms
Loss rate: 0.00%
```

Run 4: Report of QUIC Cubic — Data Link



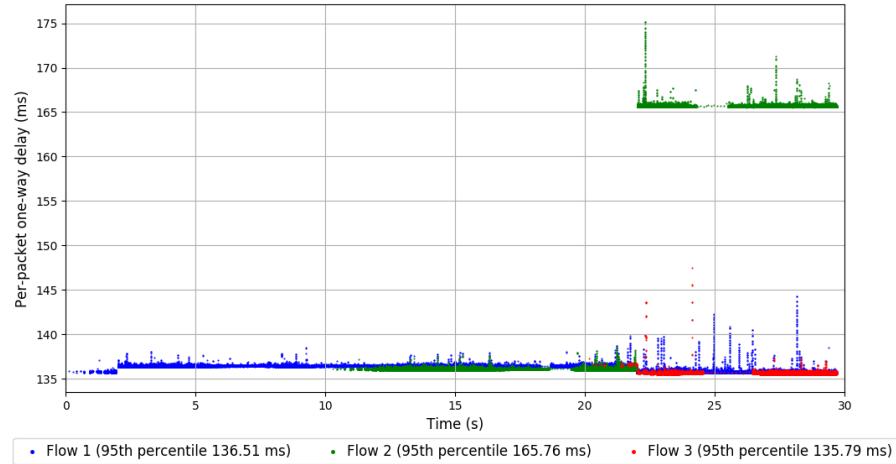
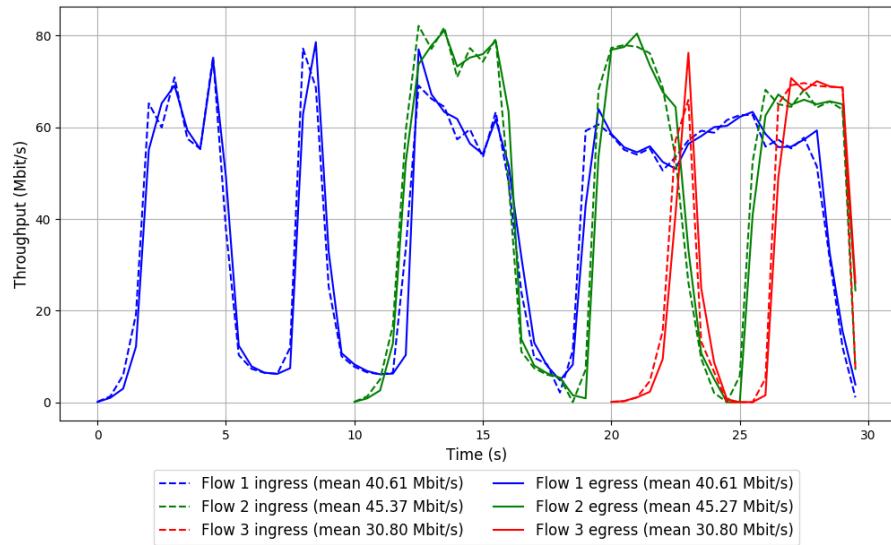
Run 5: Statistics of QUIC Cubic

Start at: 2017-12-21 08:31:06

End at: 2017-12-21 08:31:36

```
# Below is generated by plot.py at 2017-12-21 11:35:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.46 Mbit/s
95th percentile per-packet one-way delay: 165.679 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 40.61 Mbit/s
95th percentile per-packet one-way delay: 136.506 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 45.27 Mbit/s
95th percentile per-packet one-way delay: 165.756 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 30.80 Mbit/s
95th percentile per-packet one-way delay: 135.790 ms
Loss rate: 0.00%
```

Run 5: Report of QUIC Cubic — Data Link



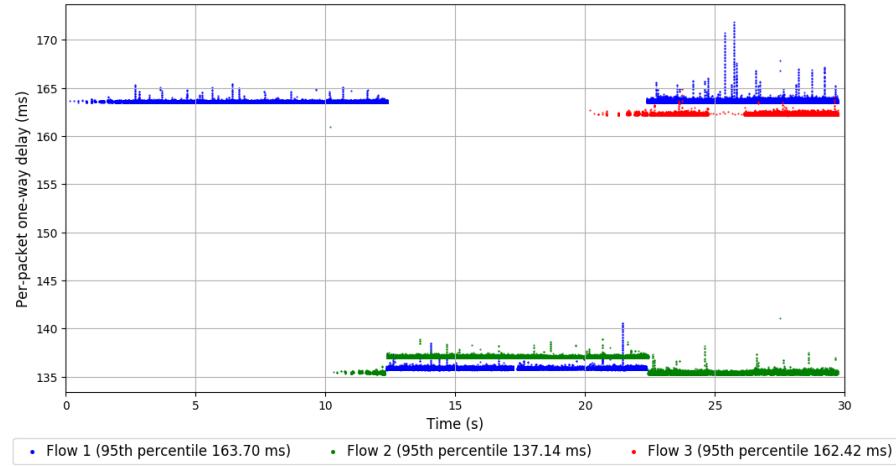
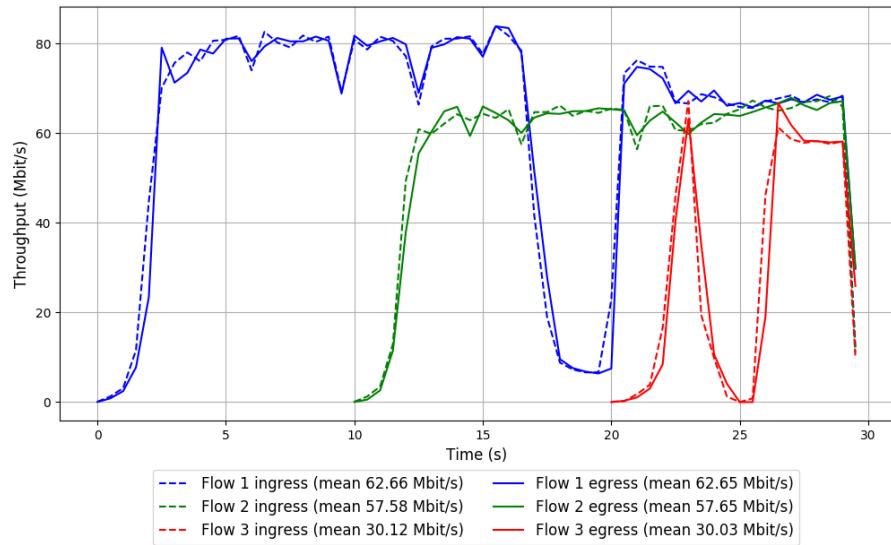
Run 6: Statistics of QUIC Cubic

Start at: 2017-12-21 08:46:35

End at: 2017-12-21 08:47:05

```
# Below is generated by plot.py at 2017-12-21 11:35:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 110.45 Mbit/s
95th percentile per-packet one-way delay: 163.637 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 62.65 Mbit/s
95th percentile per-packet one-way delay: 163.701 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 57.65 Mbit/s
95th percentile per-packet one-way delay: 137.136 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.03 Mbit/s
95th percentile per-packet one-way delay: 162.422 ms
Loss rate: 0.51%
```

Run 6: Report of QUIC Cubic — Data Link



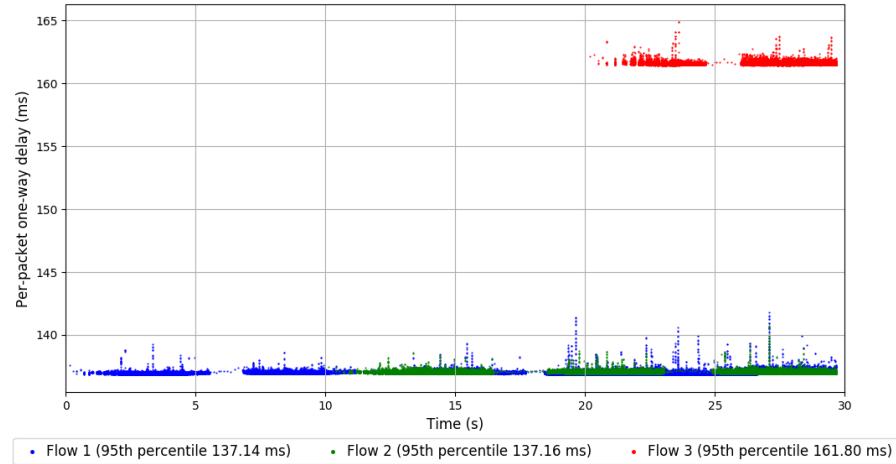
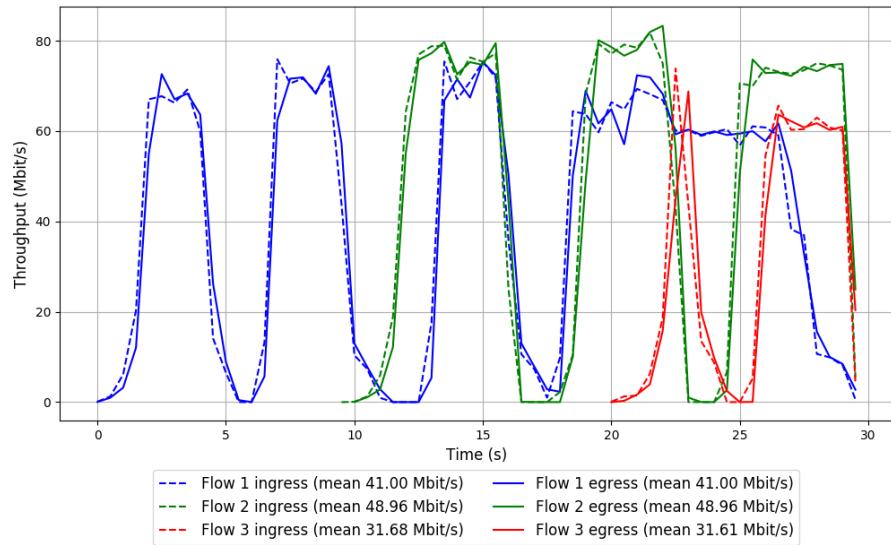
Run 7: Statistics of QUIC Cubic

Start at: 2017-12-21 09:02:18

End at: 2017-12-21 09:02:48

```
# Below is generated by plot.py at 2017-12-21 11:35:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.55 Mbit/s
95th percentile per-packet one-way delay: 161.554 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 41.00 Mbit/s
95th percentile per-packet one-way delay: 137.144 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 48.96 Mbit/s
95th percentile per-packet one-way delay: 137.159 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 31.61 Mbit/s
95th percentile per-packet one-way delay: 161.802 ms
Loss rate: 0.47%
```

Run 7: Report of QUIC Cubic — Data Link



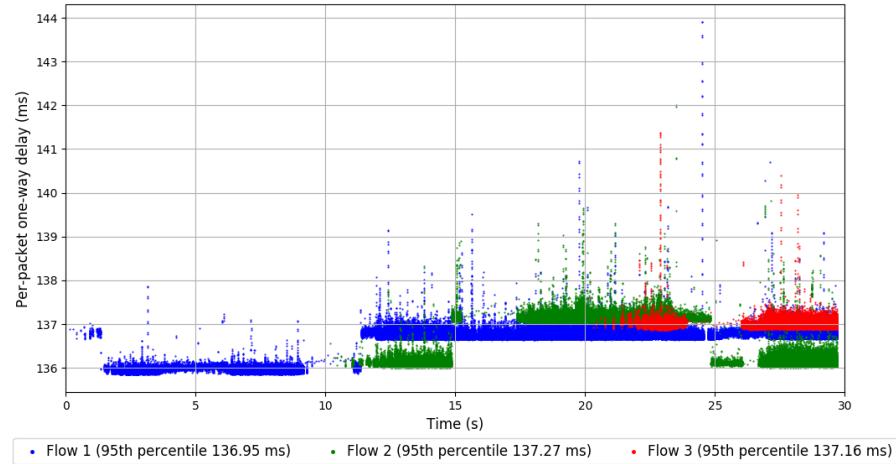
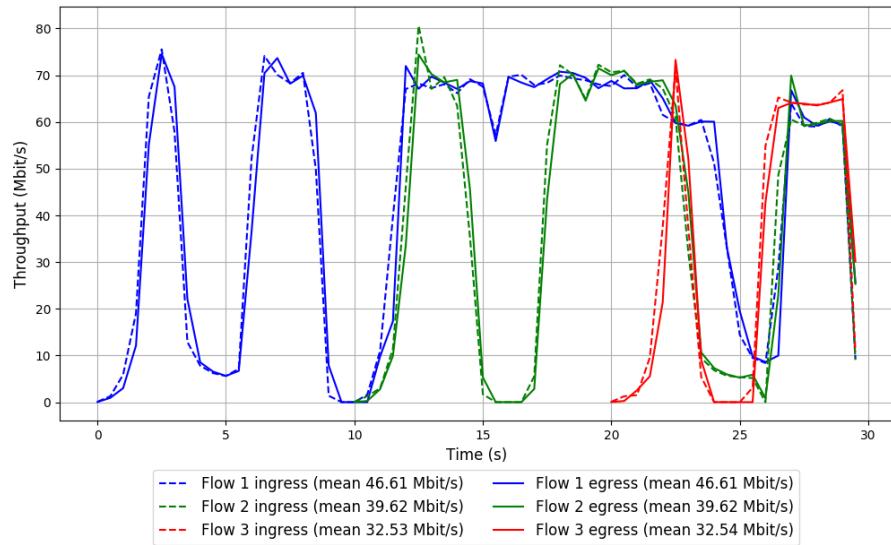
Run 8: Statistics of QUIC Cubic

Start at: 2017-12-21 09:18:33

End at: 2017-12-21 09:19:03

```
# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.28 Mbit/s
95th percentile per-packet one-way delay: 137.174 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 46.61 Mbit/s
95th percentile per-packet one-way delay: 136.951 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.62 Mbit/s
95th percentile per-packet one-way delay: 137.274 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 32.54 Mbit/s
95th percentile per-packet one-way delay: 137.157 ms
Loss rate: 0.00%
```

Run 8: Report of QUIC Cubic — Data Link



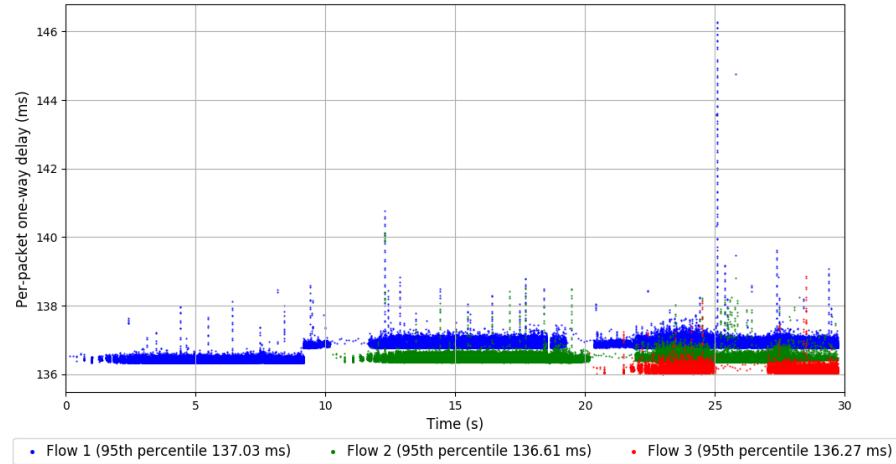
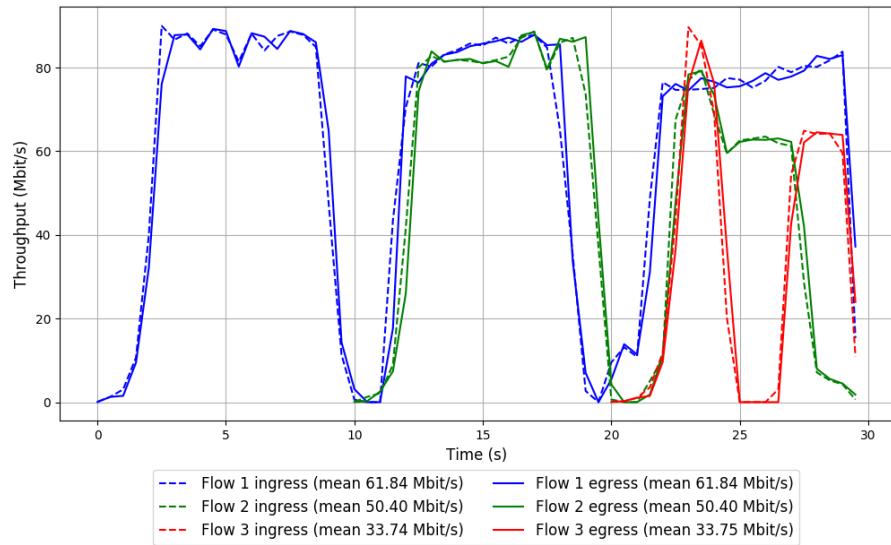
Run 9: Statistics of QUIC Cubic

Start at: 2017-12-21 09:34:49

End at: 2017-12-21 09:35:19

```
# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 106.11 Mbit/s
95th percentile per-packet one-way delay: 136.983 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.84 Mbit/s
95th percentile per-packet one-way delay: 137.025 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 50.40 Mbit/s
95th percentile per-packet one-way delay: 136.610 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 33.75 Mbit/s
95th percentile per-packet one-way delay: 136.272 ms
Loss rate: 0.00%
```

Run 9: Report of QUIC Cubic — Data Link



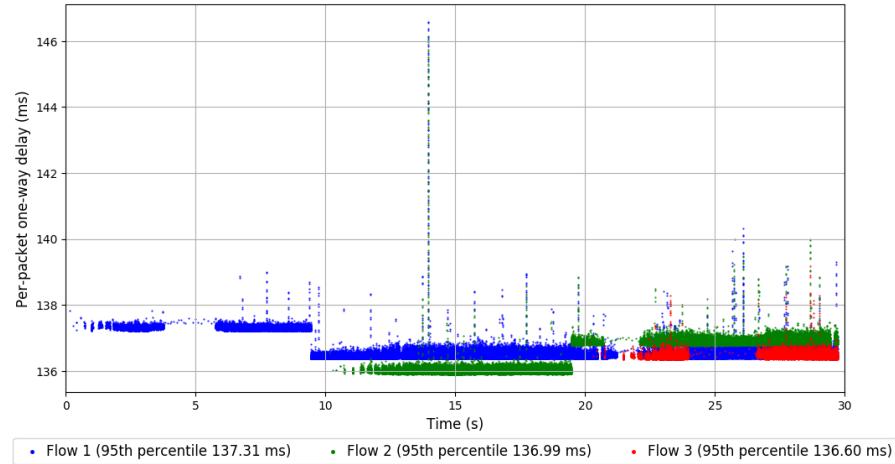
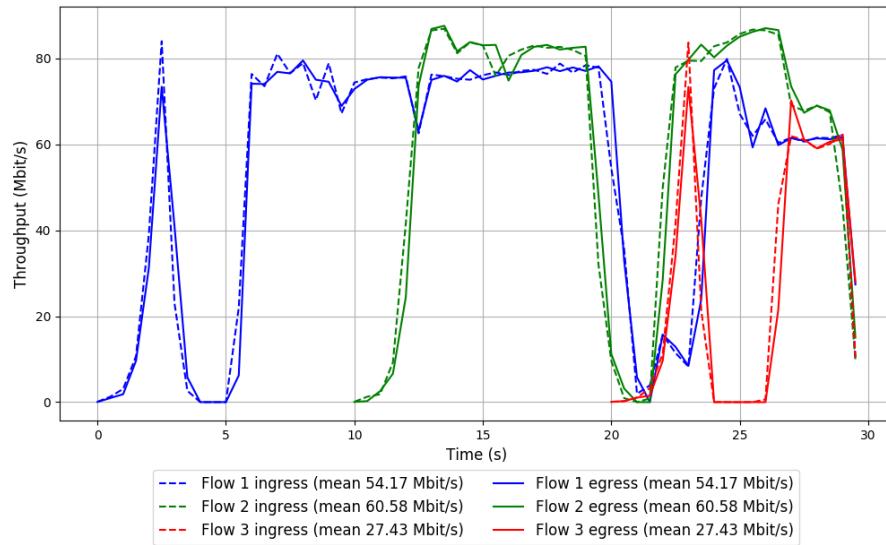
Run 10: Statistics of QUIC Cubic

Start at: 2017-12-21 09:51:08

End at: 2017-12-21 09:51:38

```
# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 103.10 Mbit/s
95th percentile per-packet one-way delay: 137.274 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 54.17 Mbit/s
95th percentile per-packet one-way delay: 137.305 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 60.58 Mbit/s
95th percentile per-packet one-way delay: 136.989 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 27.43 Mbit/s
95th percentile per-packet one-way delay: 136.605 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

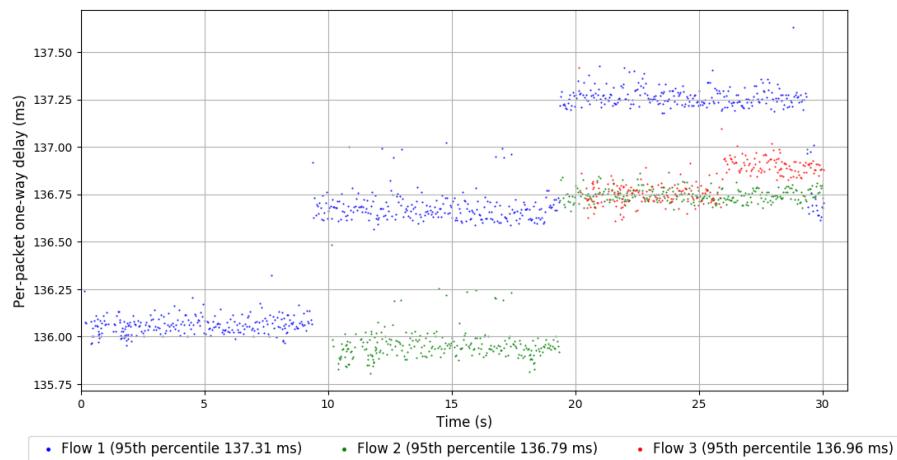
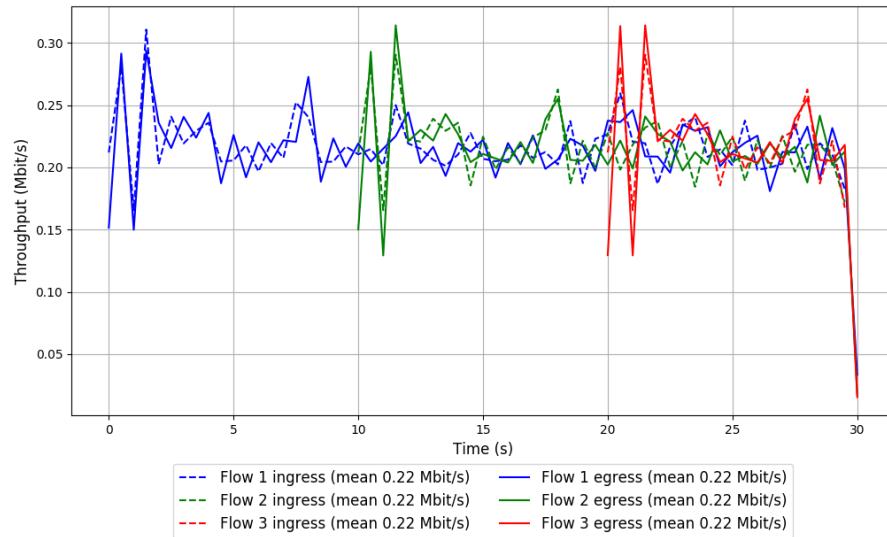


```
Run 1: Statistics of SCReAM

Start at: 2017-12-21 07:41:29
End at: 2017-12-21 07:41:59

# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.276 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.305 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.793 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.955 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link



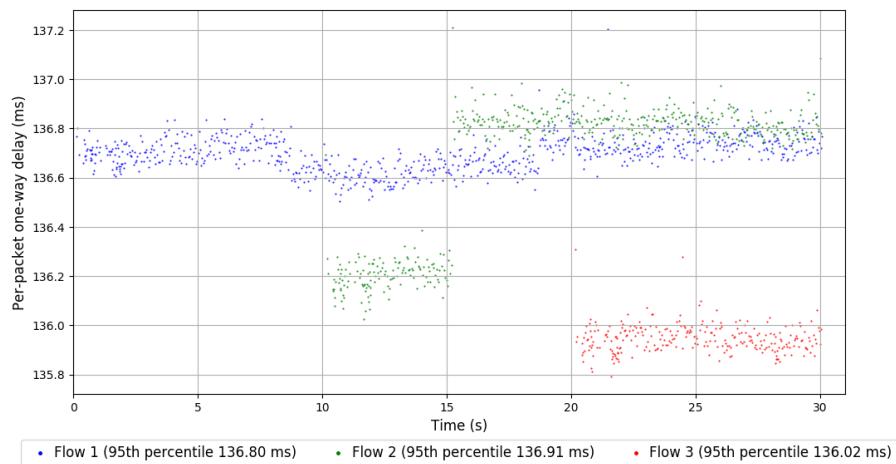
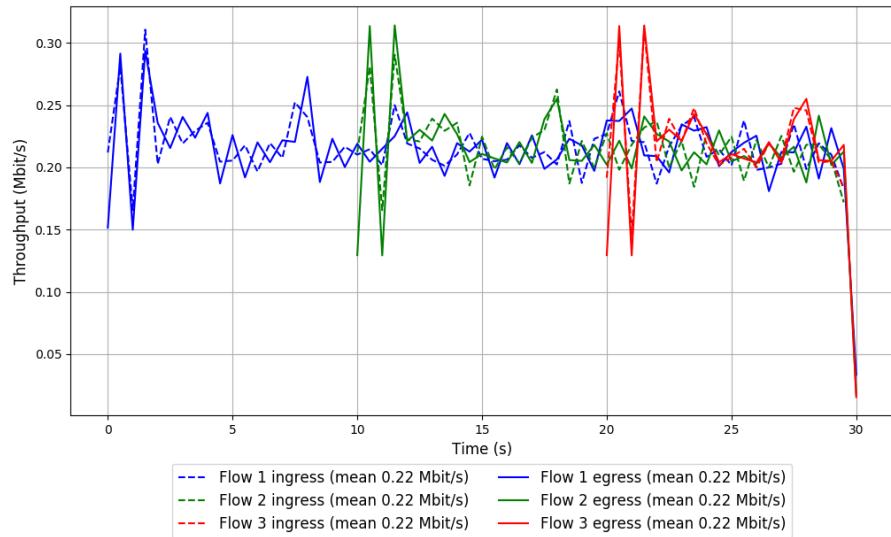
Run 2: Statistics of SCReAM

Start at: 2017-12-21 07:57:19

End at: 2017-12-21 07:57:49

```
# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.864 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.803 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.915 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.022 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link



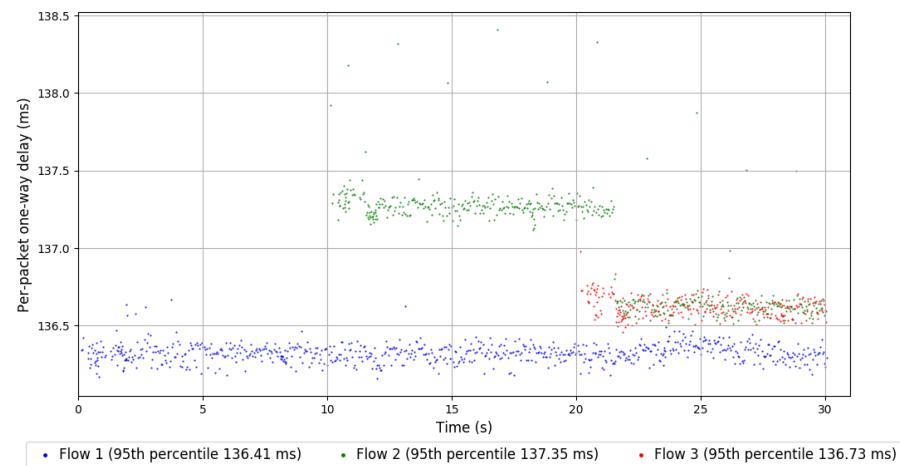
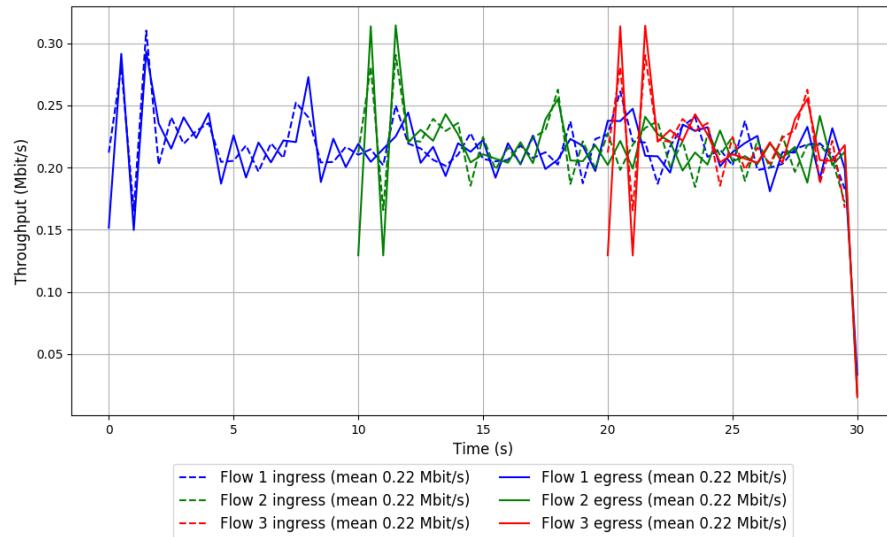
Run 3: Statistics of SCReAM

Start at: 2017-12-21 08:13:37

End at: 2017-12-21 08:14:07

```
# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.304 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.407 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.353 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.729 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link



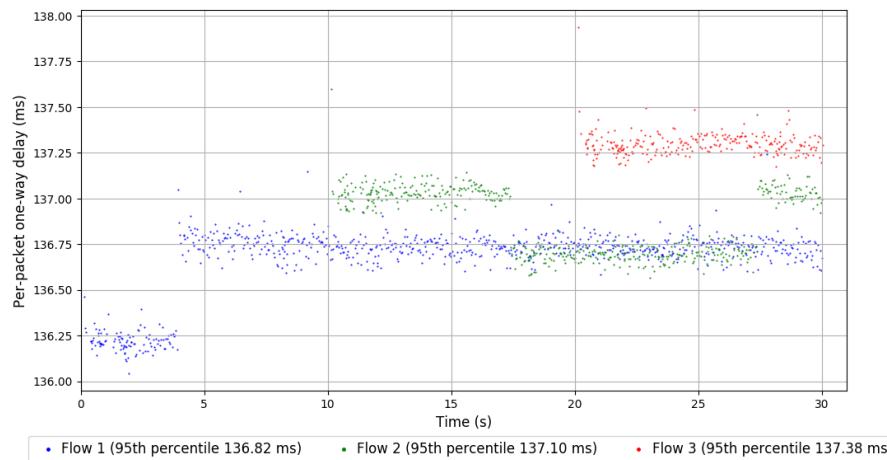
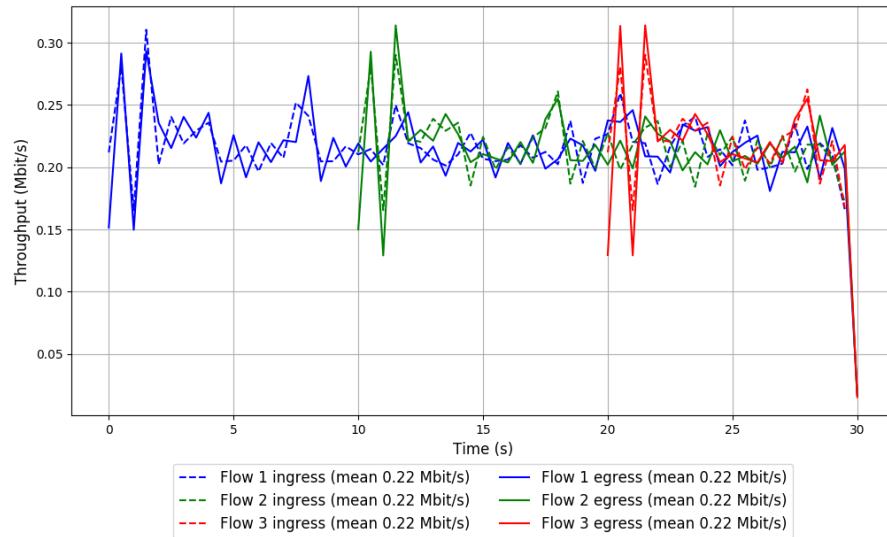
Run 4: Statistics of SCReAM

Start at: 2017-12-21 08:29:11

End at: 2017-12-21 08:29:41

```
# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.323 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.822 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.097 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.380 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link



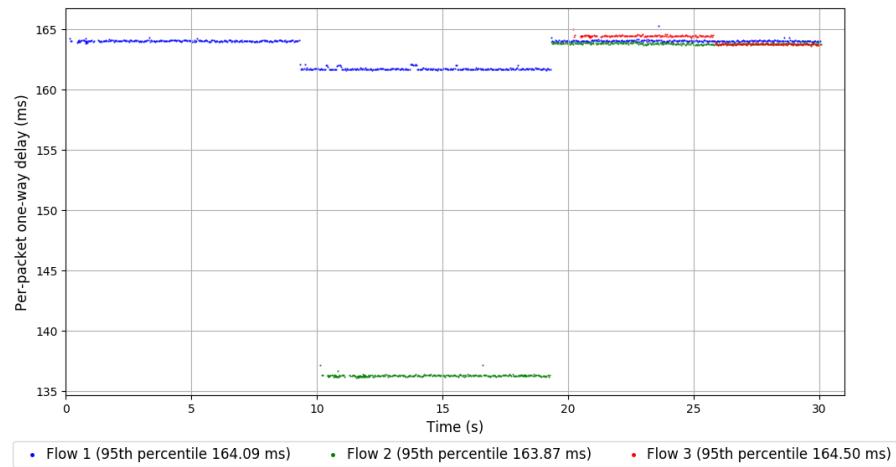
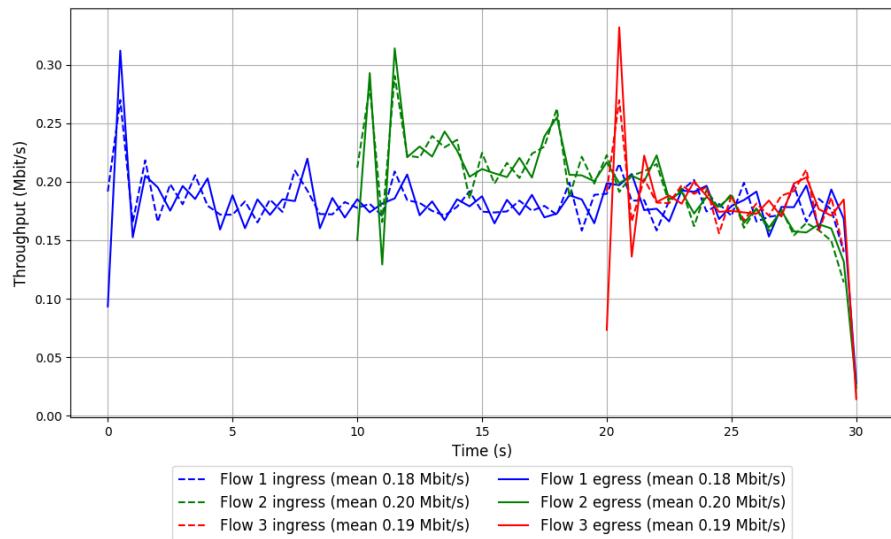
Run 5: Statistics of SCReAM

Start at: 2017-12-21 08:44:39

End at: 2017-12-21 08:45:09

```
# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 164.426 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 164.086 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 163.866 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 164.497 ms
Loss rate: 0.35%
```

Run 5: Report of SCReAM — Data Link



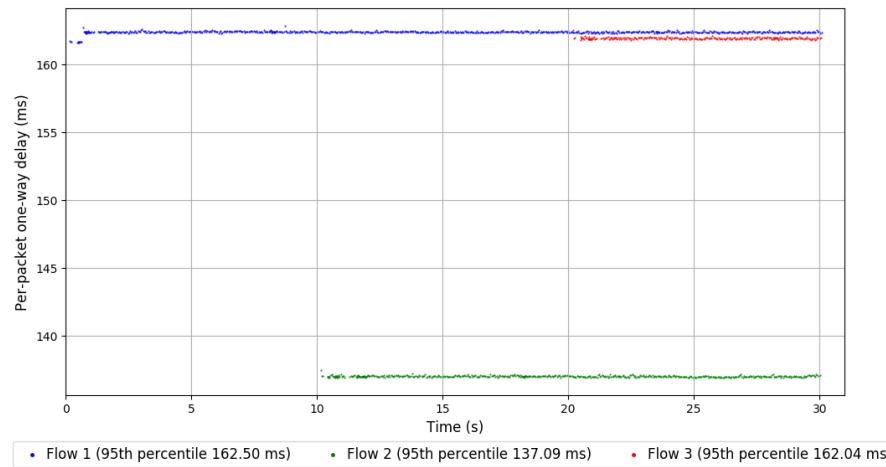
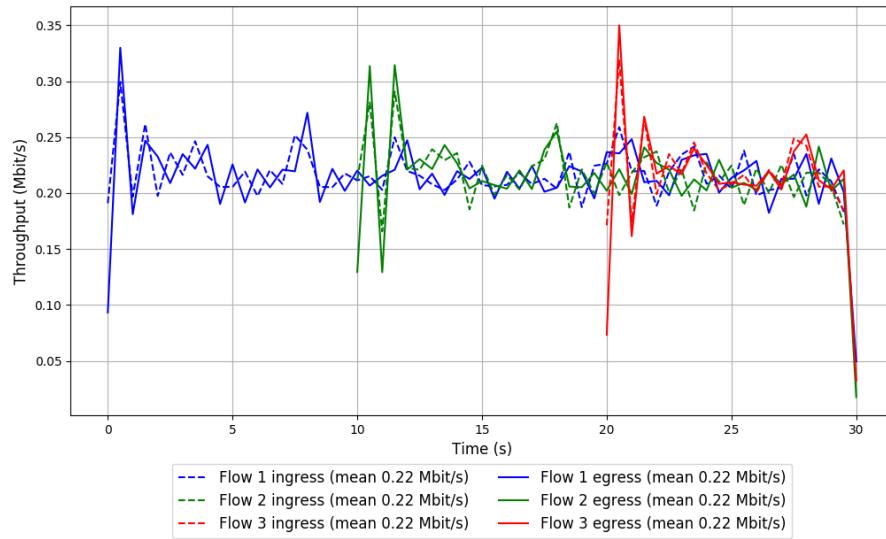
Run 6: Statistics of SCReAM

Start at: 2017-12-21 09:00:37

End at: 2017-12-21 09:01:07

```
# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 162.477 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 162.498 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.090 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 162.045 ms
Loss rate: 0.00%
```

Run 6: Report of SCReAM — Data Link



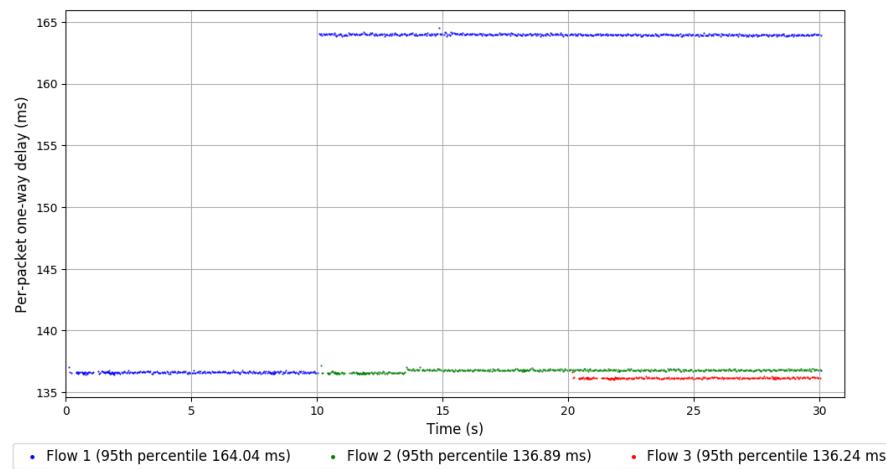
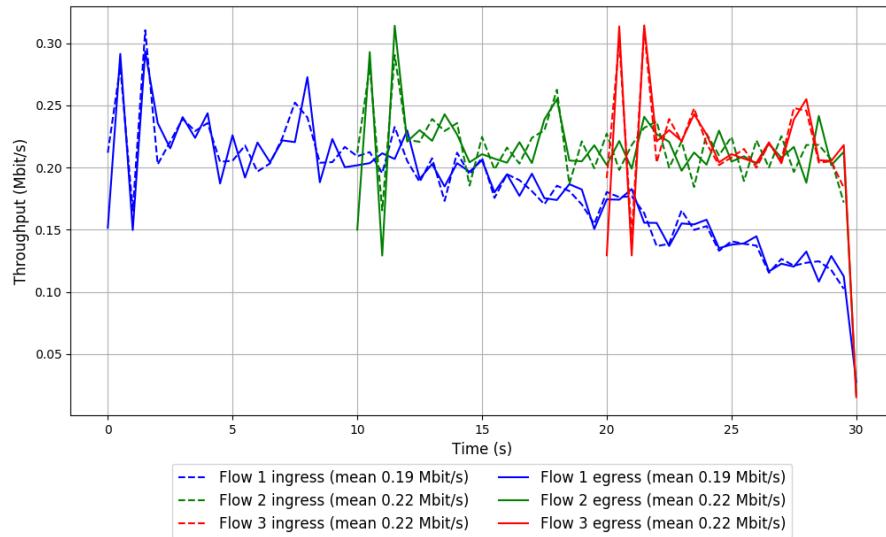
Run 7: Statistics of SCReAM

Start at: 2017-12-21 09:16:25

End at: 2017-12-21 09:16:55

```
# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 164.016 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 164.044 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.891 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.235 ms
Loss rate: 0.00%
```

Run 7: Report of SCReAM — Data Link



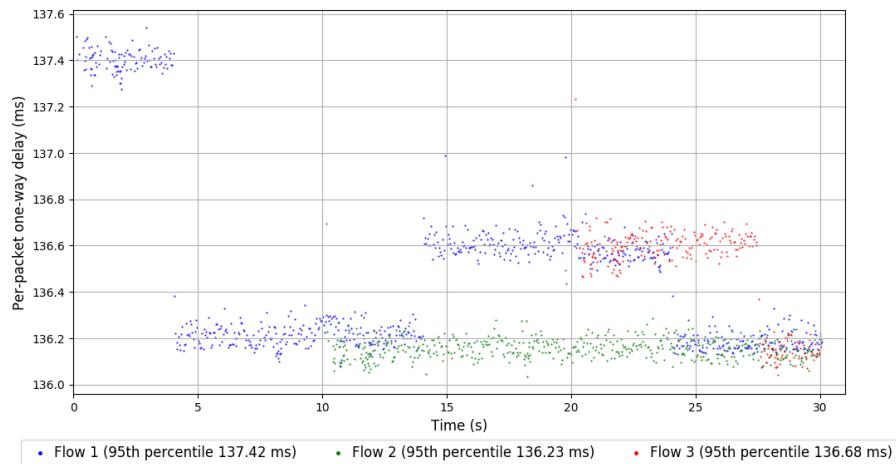
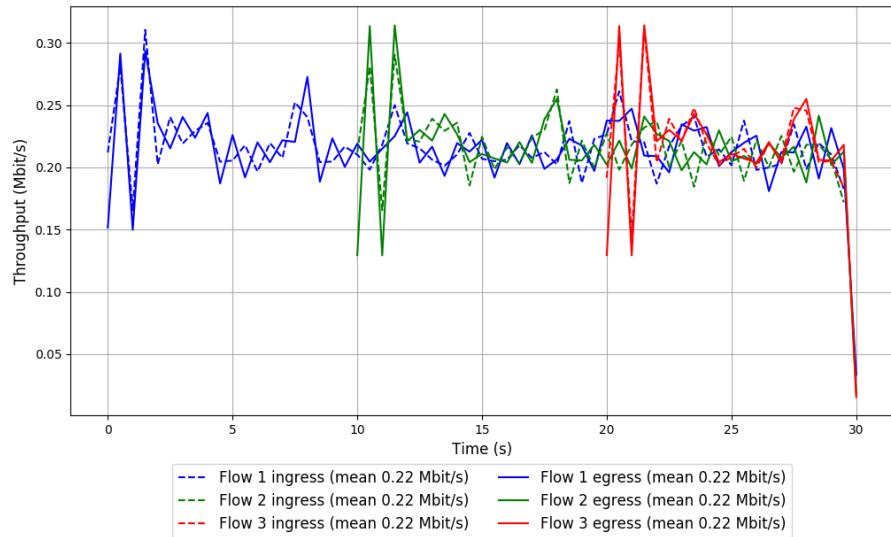
Run 8: Statistics of SCReAM

Start at: 2017-12-21 09:32:51

End at: 2017-12-21 09:33:21

```
# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.376 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.419 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.231 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.681 ms
Loss rate: 0.00%
```

Run 8: Report of SCReAM — Data Link



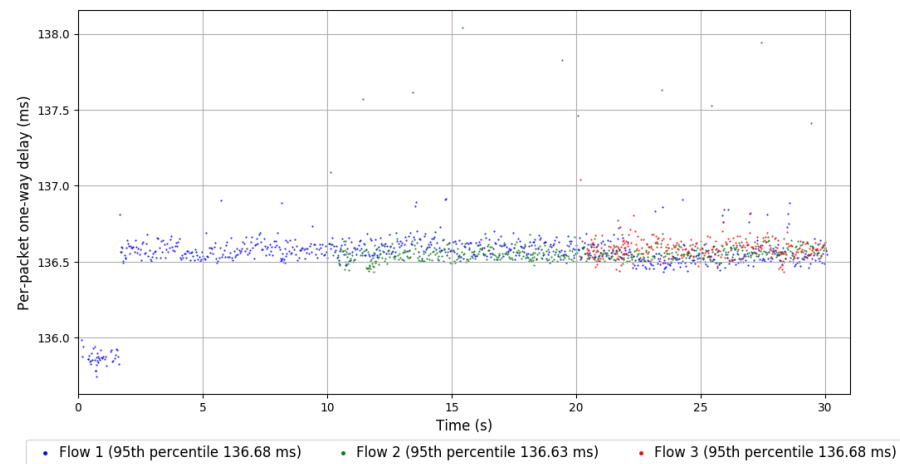
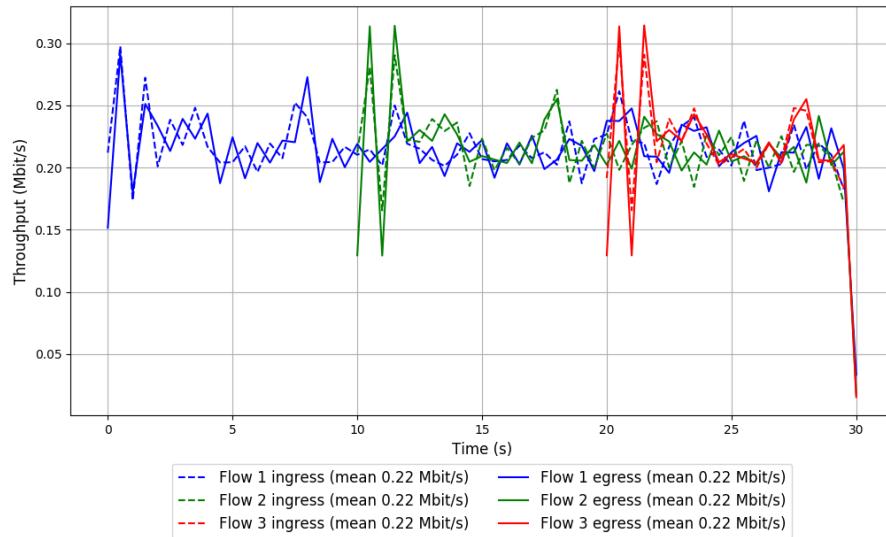
Run 9: Statistics of SCReAM

Start at: 2017-12-21 09:49:03

End at: 2017-12-21 09:49:33

```
# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.670 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.678 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.635 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.679 ms
Loss rate: 0.00%
```

Run 9: Report of SCReAM — Data Link



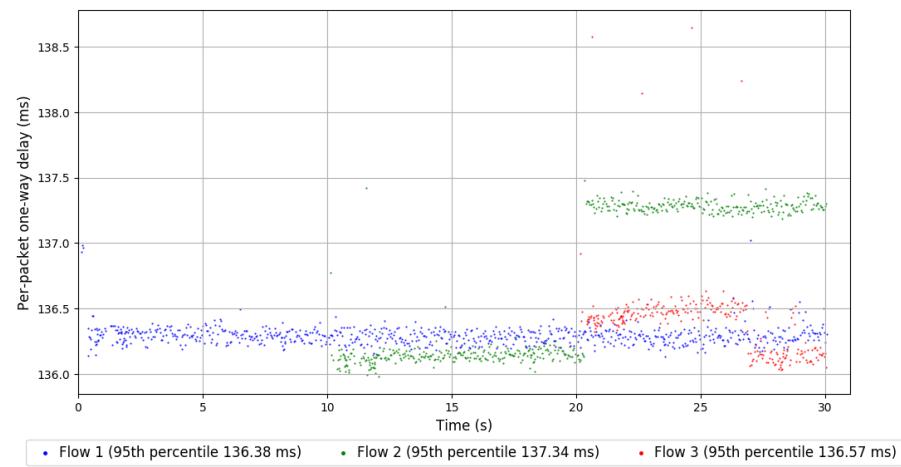
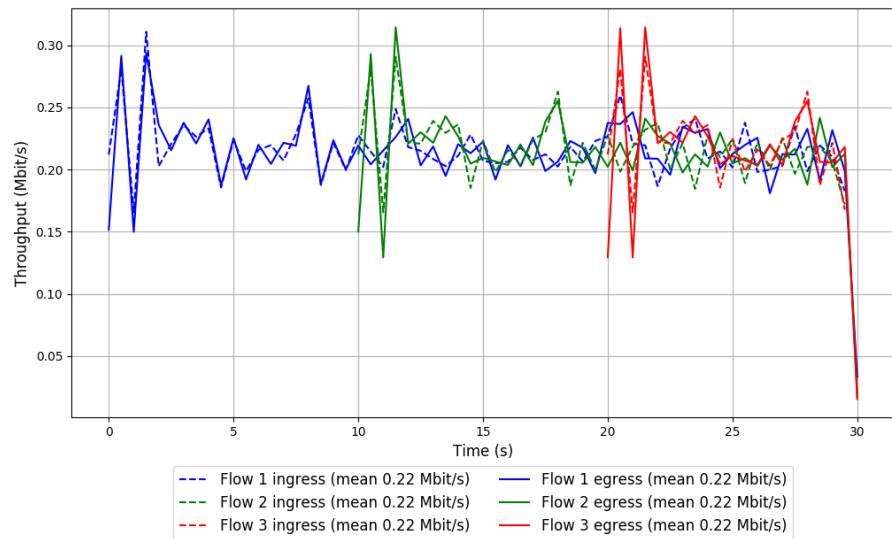
Run 10: Statistics of SCReAM

Start at: 2017-12-21 10:05:08

End at: 2017-12-21 10:05:38

```
# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.302 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.378 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.345 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.575 ms
Loss rate: 0.00%
```

Run 10: Report of SCReAM — Data Link

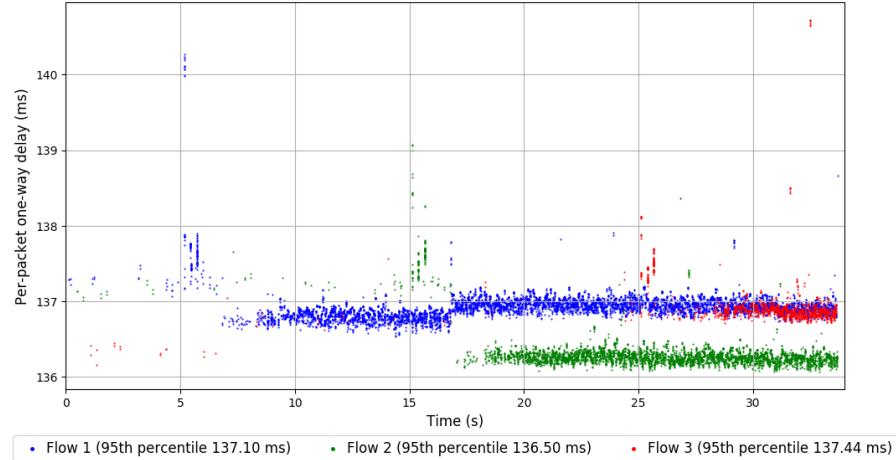
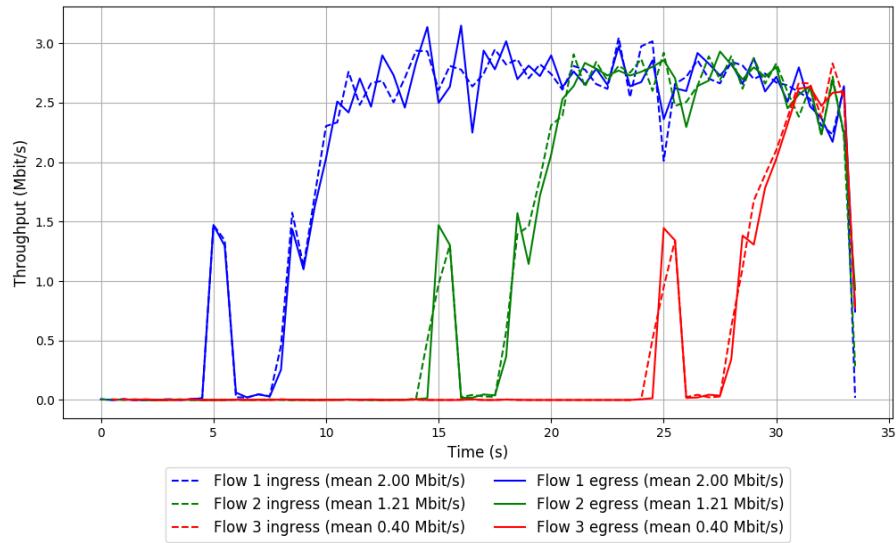


```
Run 1: Statistics of WebRTC media

Start at: 2017-12-21 07:38:25
End at: 2017-12-21 07:38:55

# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.57 Mbit/s
95th percentile per-packet one-way delay: 137.108 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 137.098 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 136.496 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 137.443 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



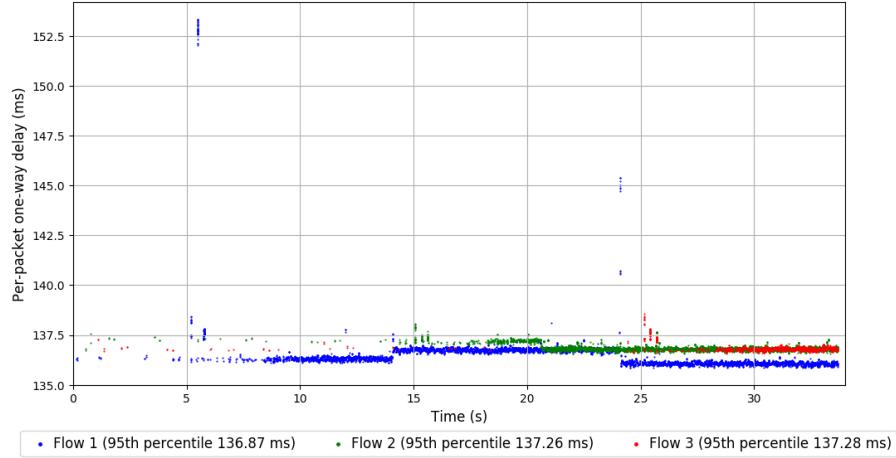
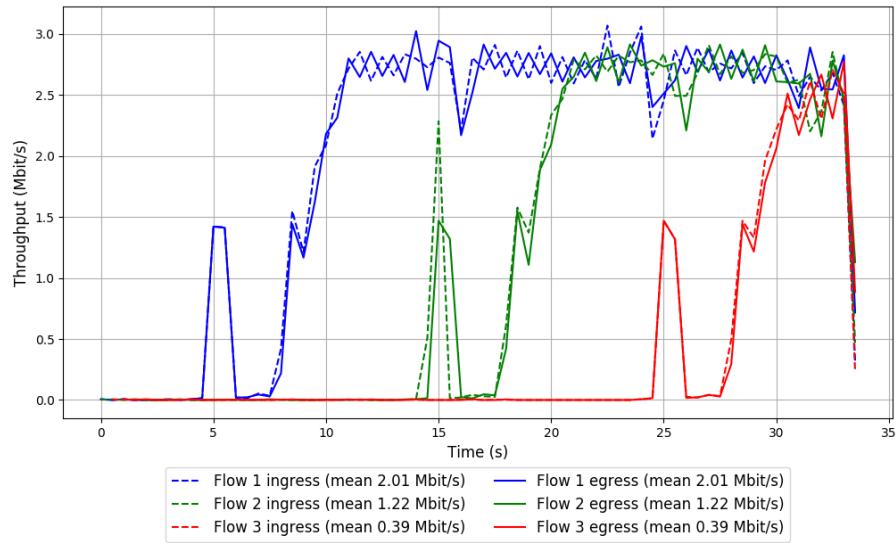
Run 2: Statistics of WebRTC media

Start at: 2017-12-21 07:54:18

End at: 2017-12-21 07:54:48

```
# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.59 Mbit/s
95th percentile per-packet one-way delay: 137.196 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 136.872 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 137.258 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 137.278 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

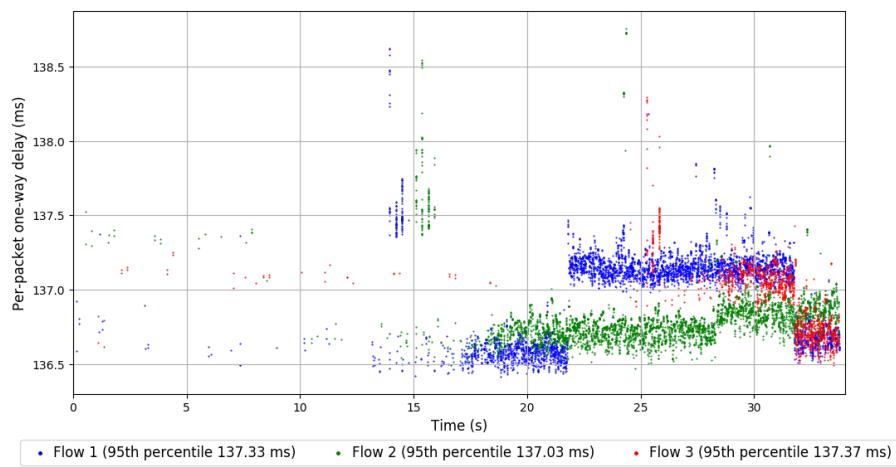
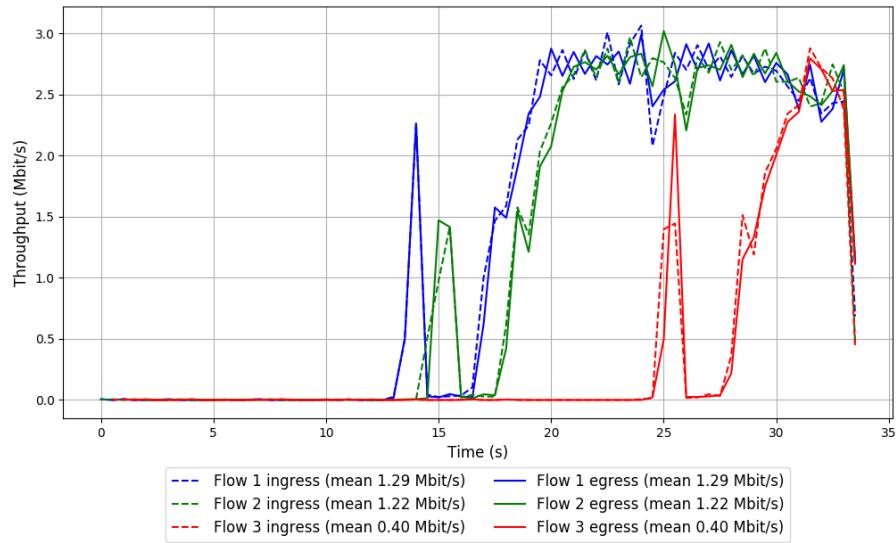


```
Run 3: Statistics of WebRTC media

Start at: 2017-12-21 08:10:30
End at: 2017-12-21 08:11:00

# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.88 Mbit/s
95th percentile per-packet one-way delay: 137.303 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 1.29 Mbit/s
95th percentile per-packet one-way delay: 137.330 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 137.026 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 137.370 ms
Loss rate: 0.07%
```

Run 3: Report of WebRTC media — Data Link



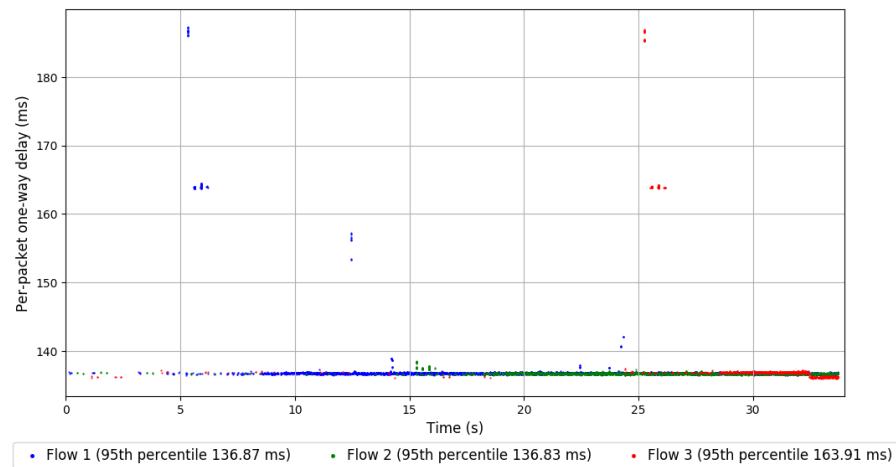
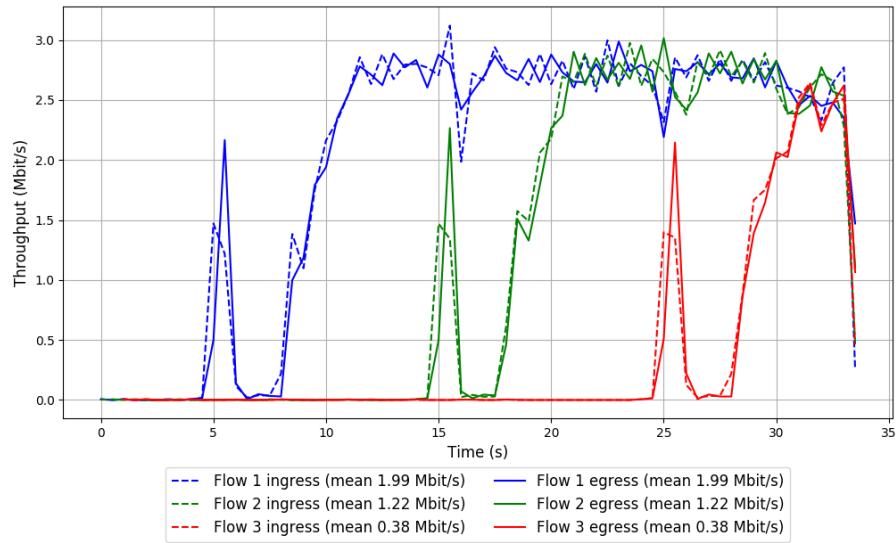
Run 4: Statistics of WebRTC media

Start at: 2017-12-21 08:26:19

End at: 2017-12-21 08:26:49

```
# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.56 Mbit/s
95th percentile per-packet one-way delay: 136.920 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 136.865 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 136.831 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 163.905 ms
Loss rate: 0.01%
```

Run 4: Report of WebRTC media — Data Link



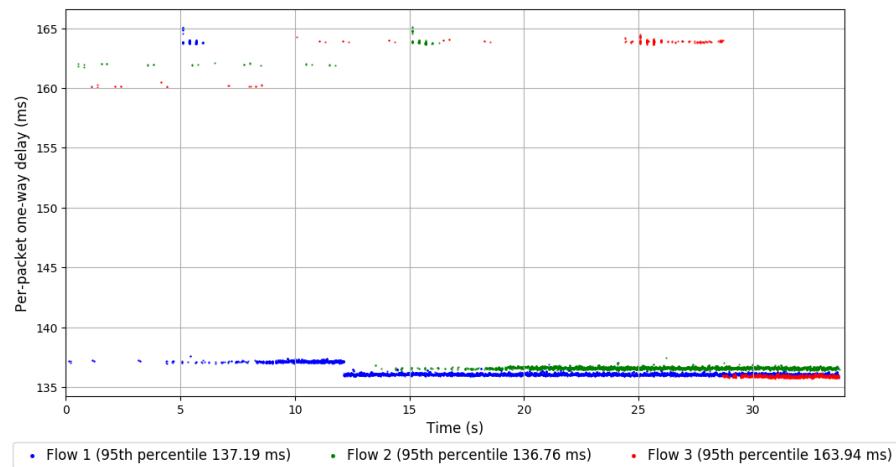
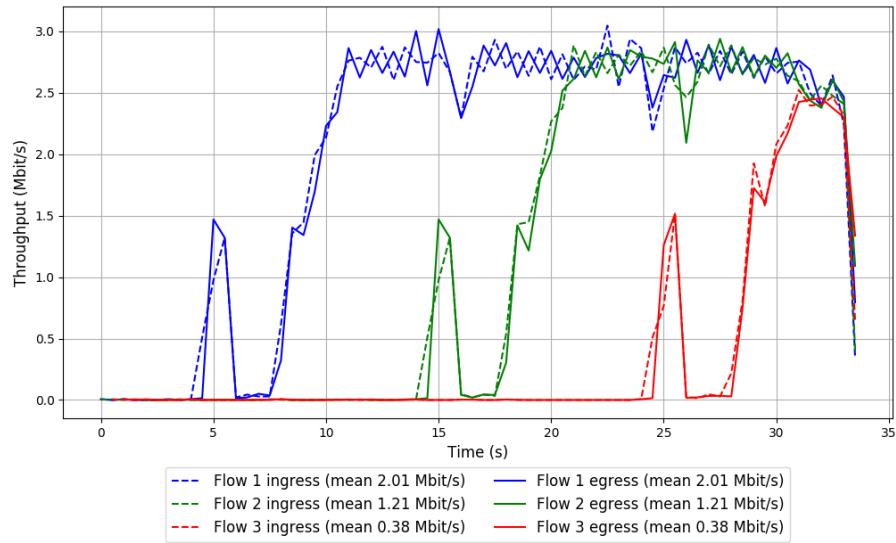
Run 5: Statistics of WebRTC media

Start at: 2017-12-21 08:41:50

End at: 2017-12-21 08:42:20

```
# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.57 Mbit/s
95th percentile per-packet one-way delay: 137.210 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 137.188 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 136.765 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 163.939 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

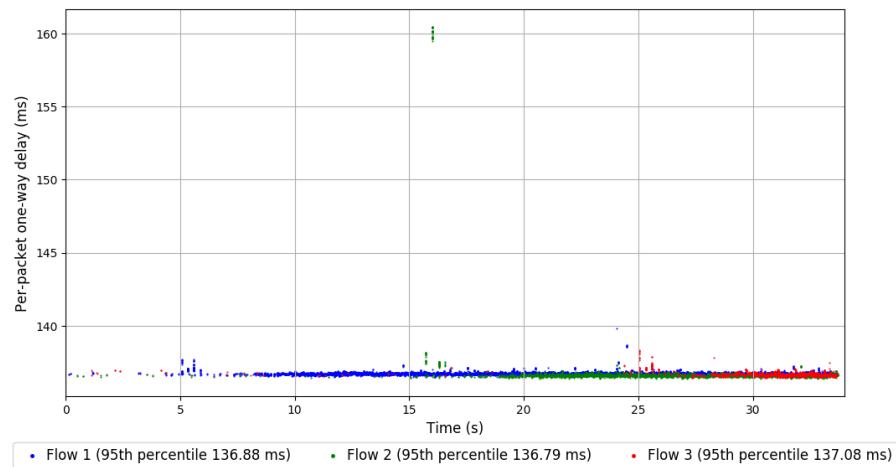
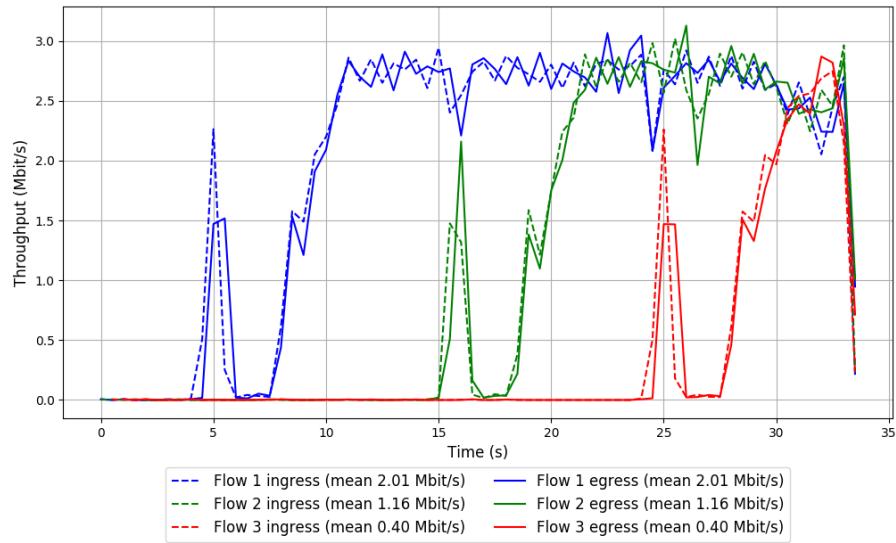


```
Run 6: Statistics of WebRTC media

Start at: 2017-12-21 08:57:32
End at: 2017-12-21 08:58:02

# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.54 Mbit/s
95th percentile per-packet one-way delay: 136.889 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 136.881 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 1.16 Mbit/s
95th percentile per-packet one-way delay: 136.789 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 137.082 ms
Loss rate: 0.00%
```

Run 6: Report of WebRTC media — Data Link

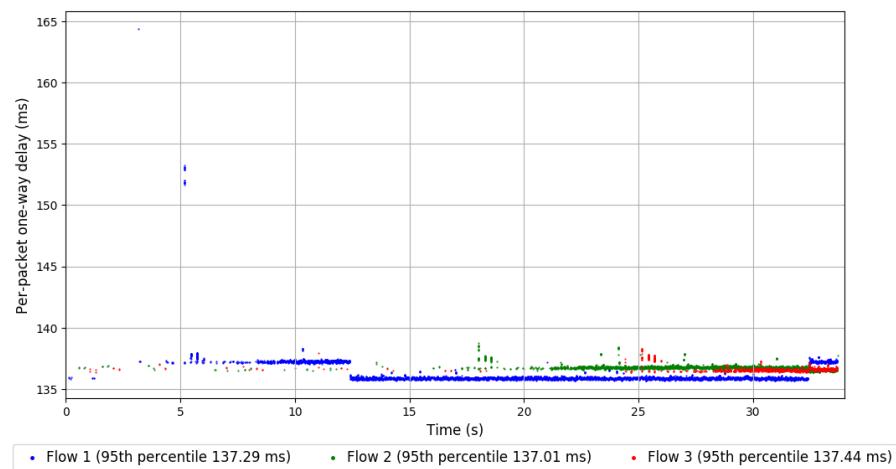
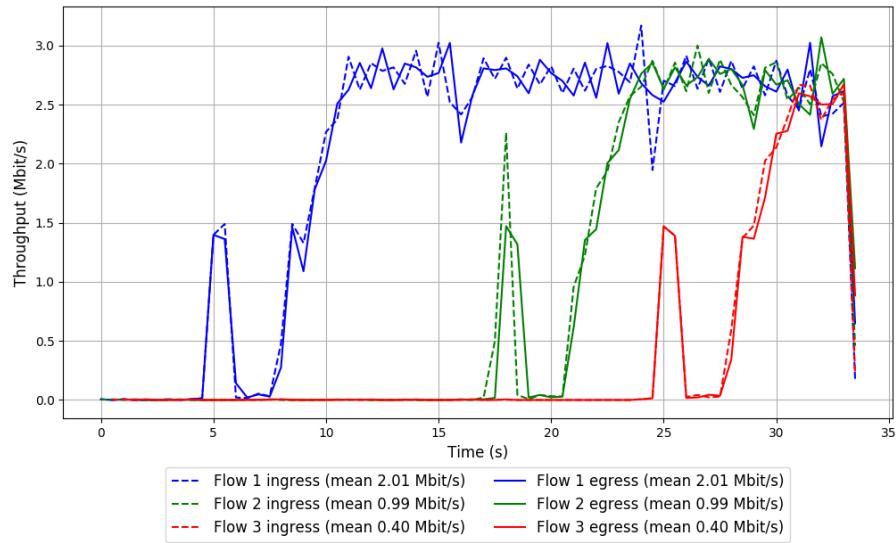


```
Run 7: Statistics of WebRTC media

Start at: 2017-12-21 09:13:19
End at: 2017-12-21 09:13:49

# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.37 Mbit/s
95th percentile per-packet one-way delay: 137.296 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 137.292 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.99 Mbit/s
95th percentile per-packet one-way delay: 137.014 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 137.439 ms
Loss rate: 0.00%
```

Run 7: Report of WebRTC media — Data Link



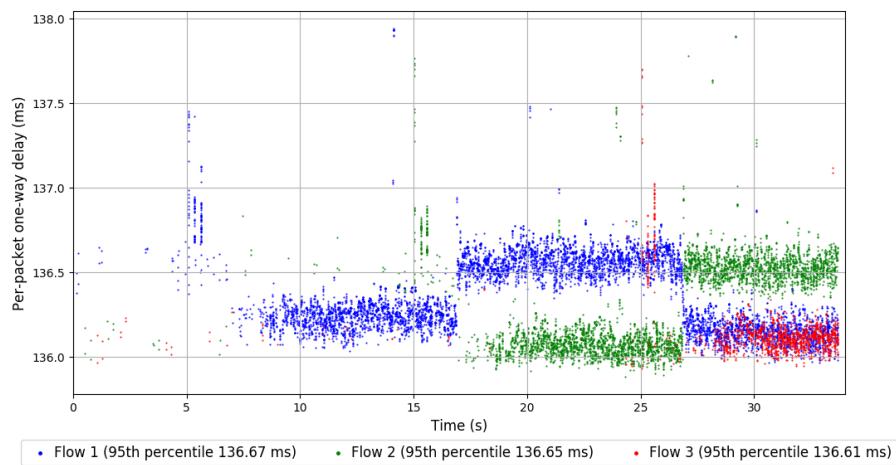
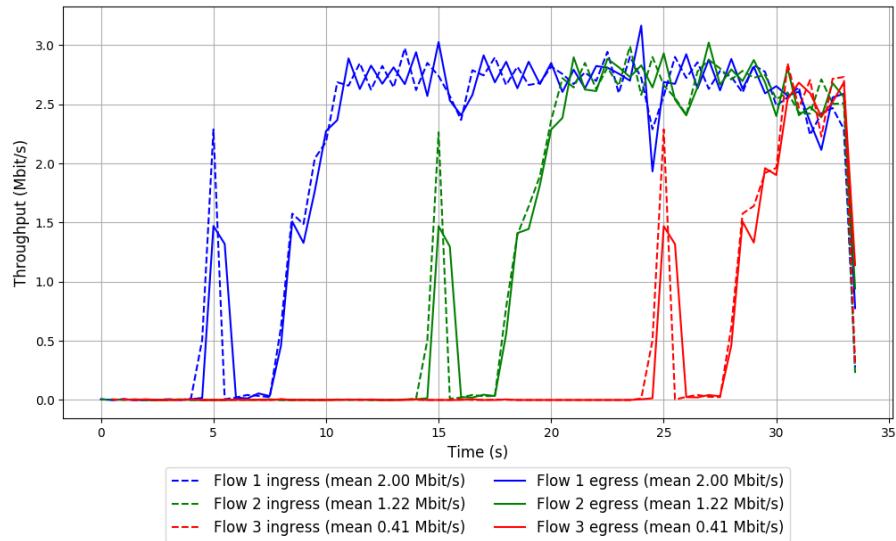
Run 8: Statistics of WebRTC media

Start at: 2017-12-21 09:29:45

End at: 2017-12-21 09:30:15

```
# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.61 Mbit/s
95th percentile per-packet one-way delay: 136.665 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 136.672 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 136.650 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 136.609 ms
Loss rate: 0.00%
```

Run 8: Report of WebRTC media — Data Link

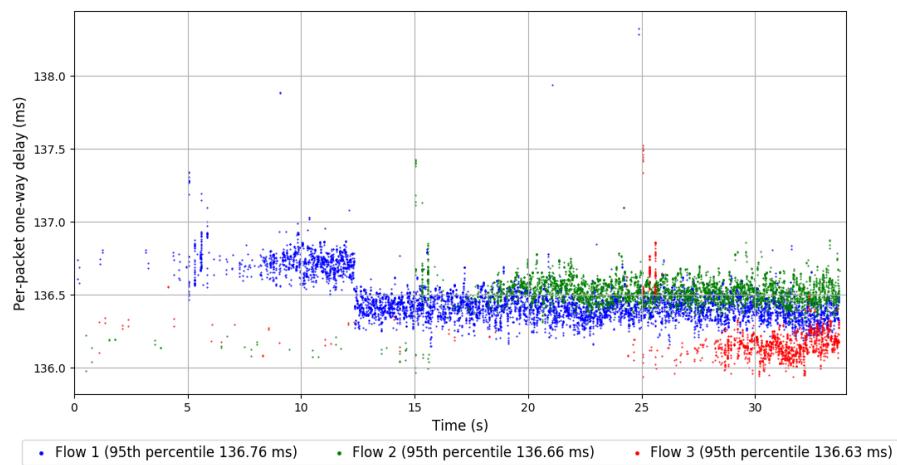
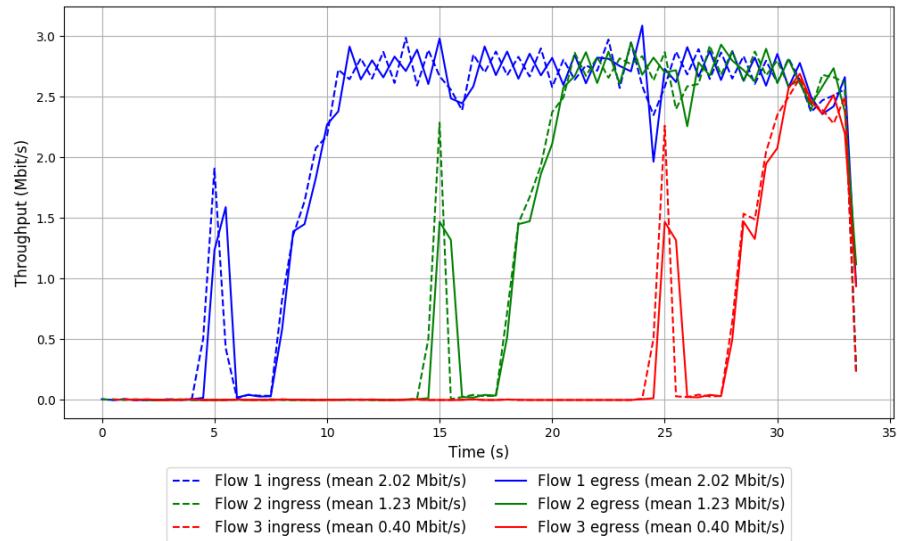


```
Run 9: Statistics of WebRTC media

Start at: 2017-12-21 09:45:56
End at: 2017-12-21 09:46:26

# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.62 Mbit/s
95th percentile per-packet one-way delay: 136.730 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 136.759 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.23 Mbit/s
95th percentile per-packet one-way delay: 136.656 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 136.630 ms
Loss rate: 0.00%
```

Run 9: Report of WebRTC media — Data Link

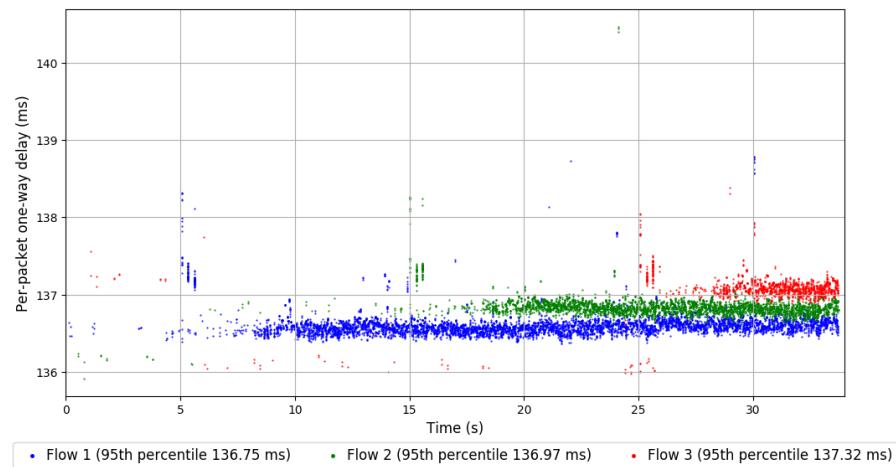
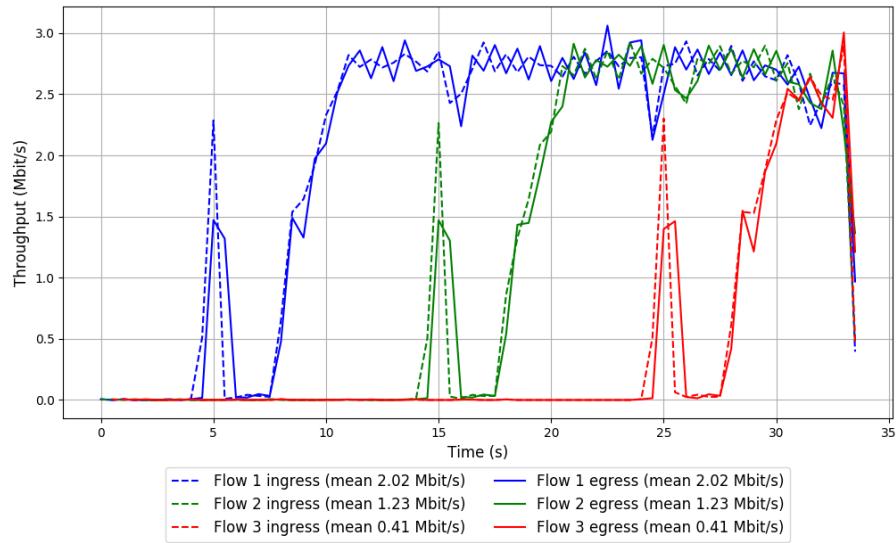


```
Run 10: Statistics of WebRTC media

Start at: 2017-12-21 10:02:06
End at: 2017-12-21 10:02:36

# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.63 Mbit/s
95th percentile per-packet one-way delay: 137.138 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 136.747 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.23 Mbit/s
95th percentile per-packet one-way delay: 136.968 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 137.319 ms
Loss rate: 0.00%
```

Run 10: Report of WebRTC media — Data Link



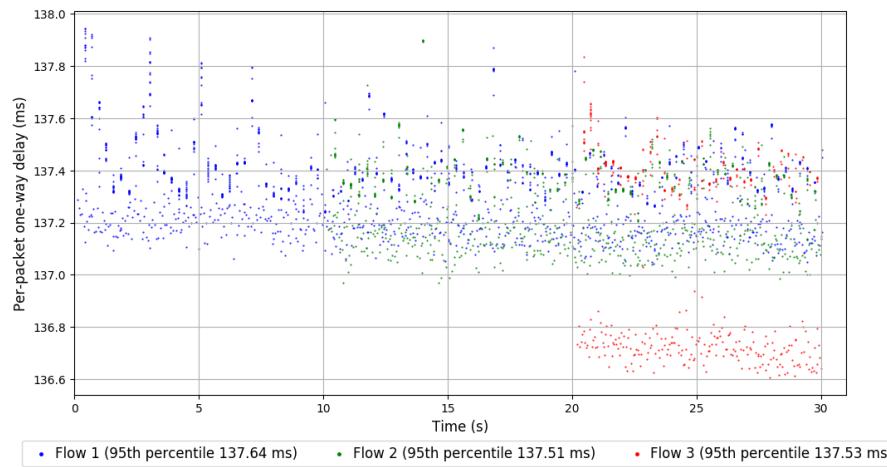
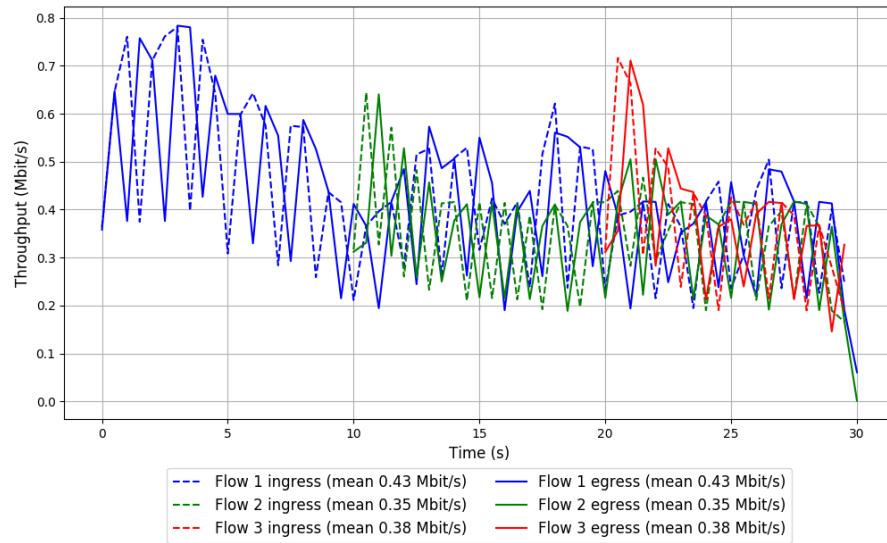
Run 1: Statistics of Sprout

Start at: 2017-12-21 07:31:00

End at: 2017-12-21 07:31:30

```
# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.79 Mbit/s
95th percentile per-packet one-way delay: 137.572 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 137.641 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 137.510 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 137.532 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



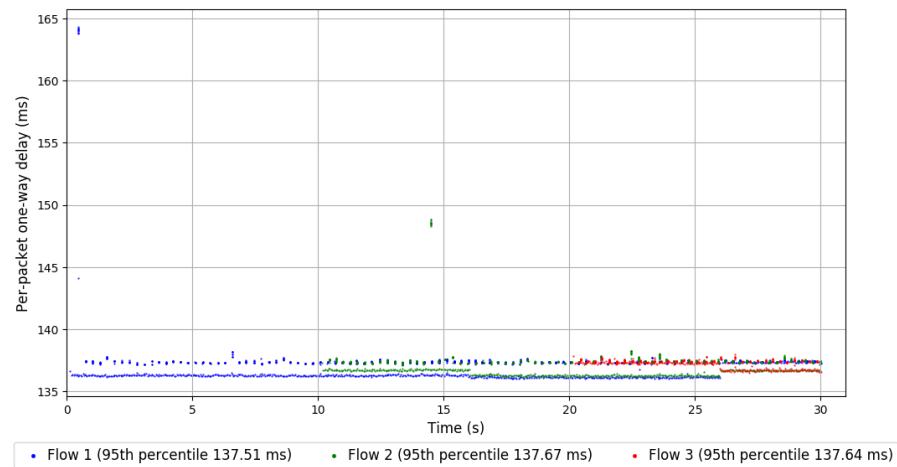
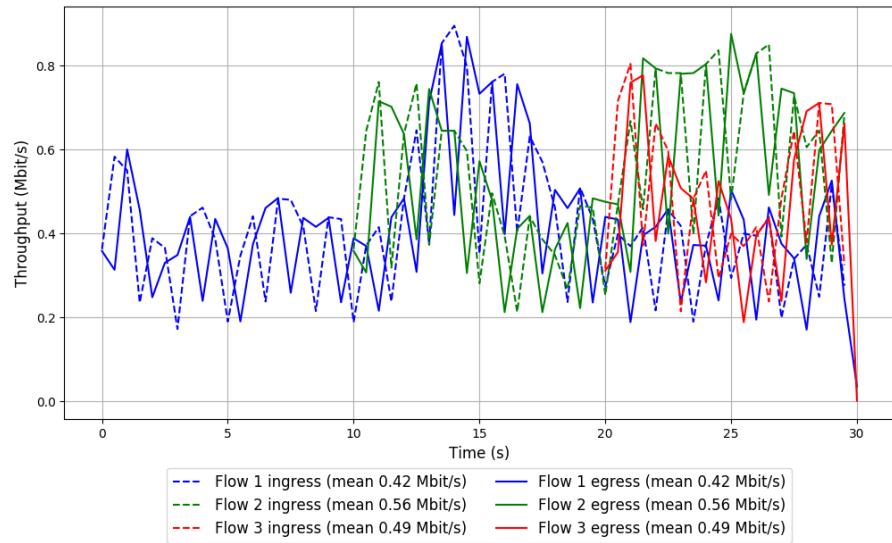
Run 2: Statistics of Sprout

Start at: 2017-12-21 07:45:59

End at: 2017-12-21 07:46:29

```
# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.95 Mbit/s
95th percentile per-packet one-way delay: 137.584 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 137.513 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 137.671 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 137.636 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link



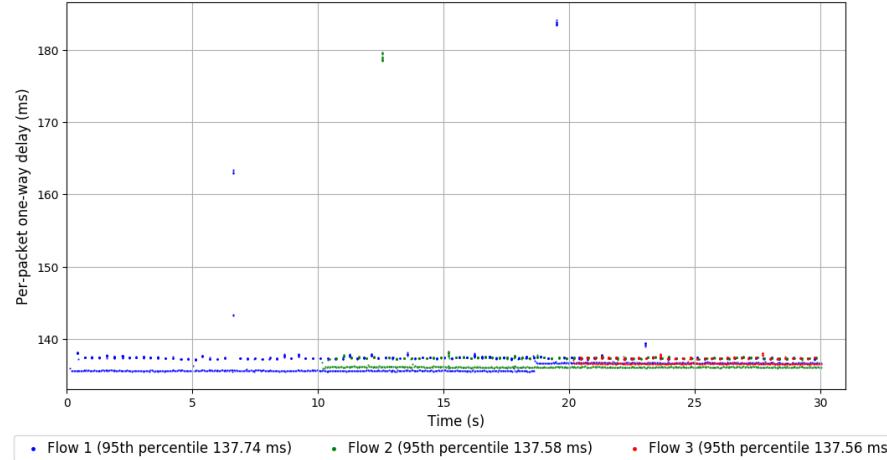
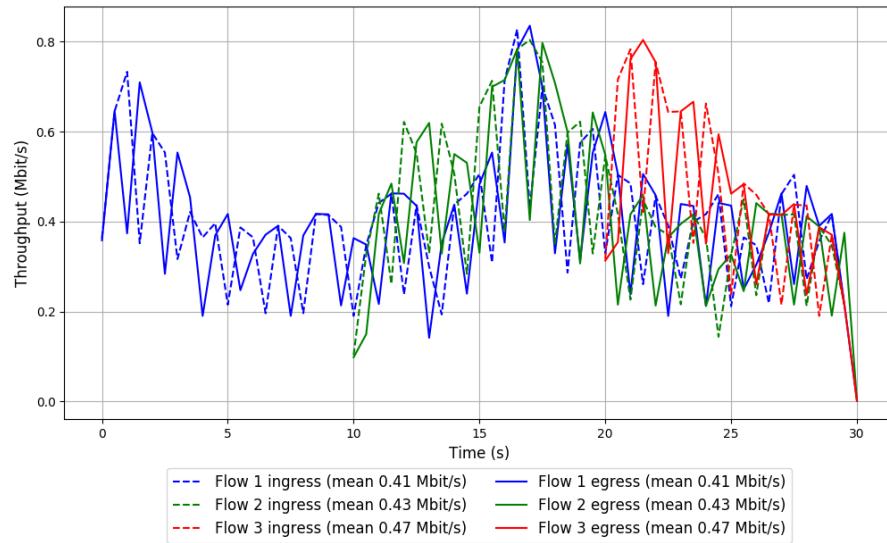
Run 3: Statistics of Sprout

Start at: 2017-12-21 08:01:59

End at: 2017-12-21 08:02:29

```
# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.85 Mbit/s
95th percentile per-packet one-way delay: 137.643 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 137.739 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 137.578 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 137.559 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link



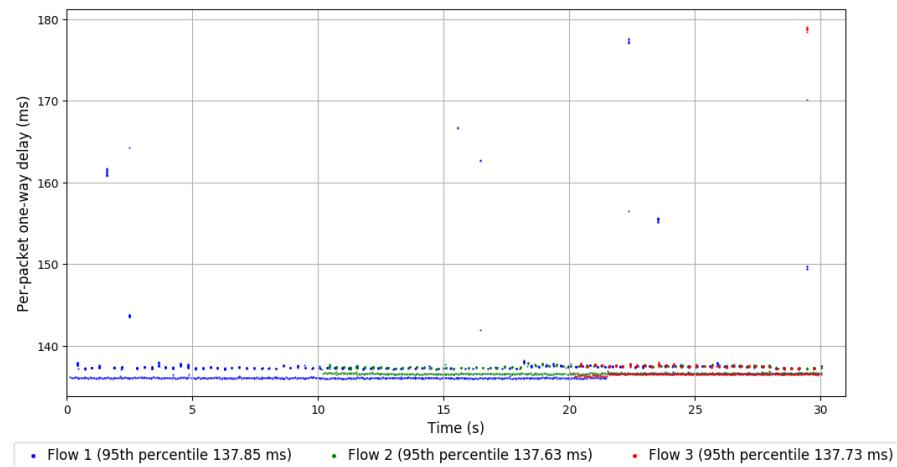
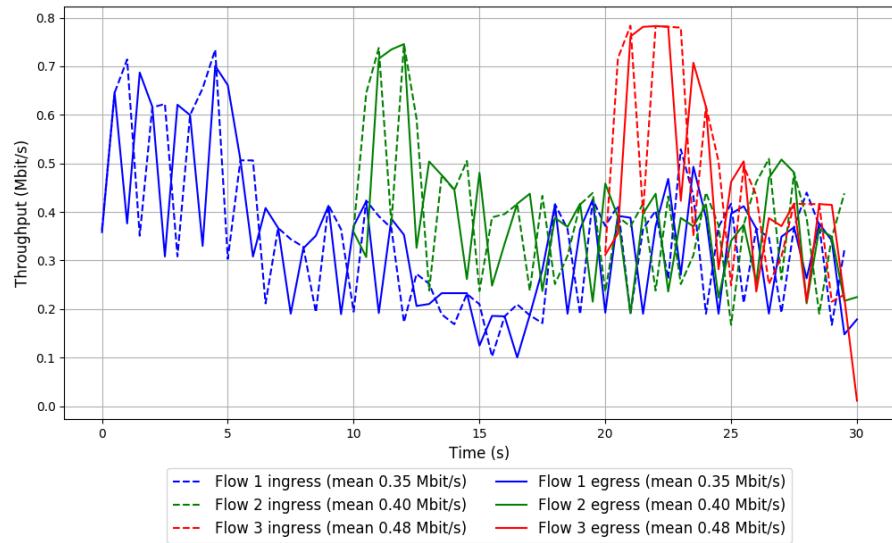
Run 4: Statistics of Sprout

Start at: 2017-12-21 08:18:17

End at: 2017-12-21 08:18:47

```
# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.77 Mbit/s
95th percentile per-packet one-way delay: 137.707 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 137.853 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 137.635 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 137.729 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link



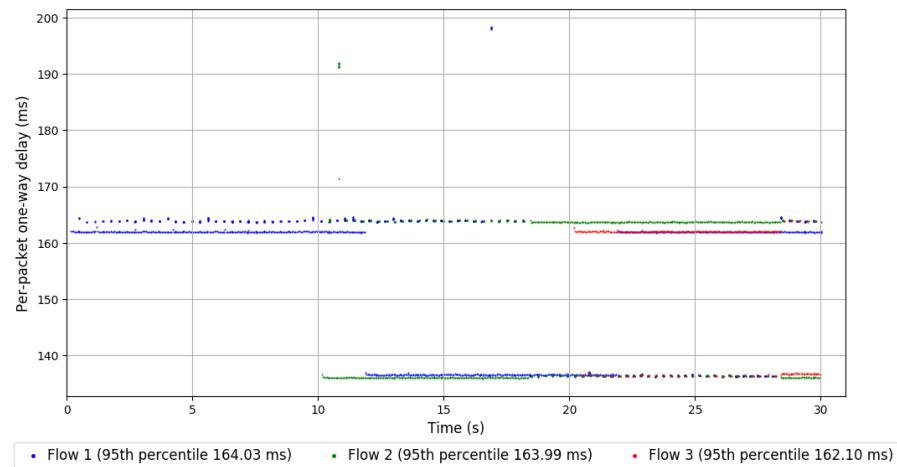
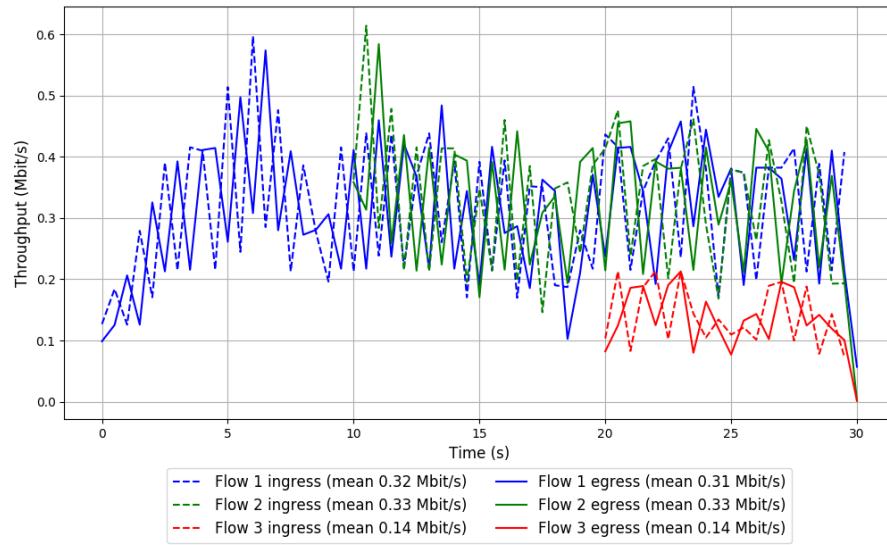
Run 5: Statistics of Sprout

Start at: 2017-12-21 08:33:46

End at: 2017-12-21 08:34:16

```
# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 164.010 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 164.033 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 163.992 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 162.097 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link



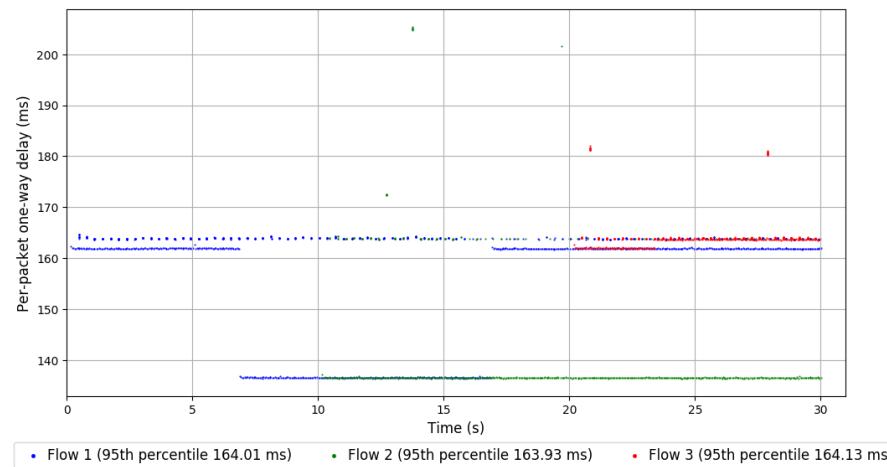
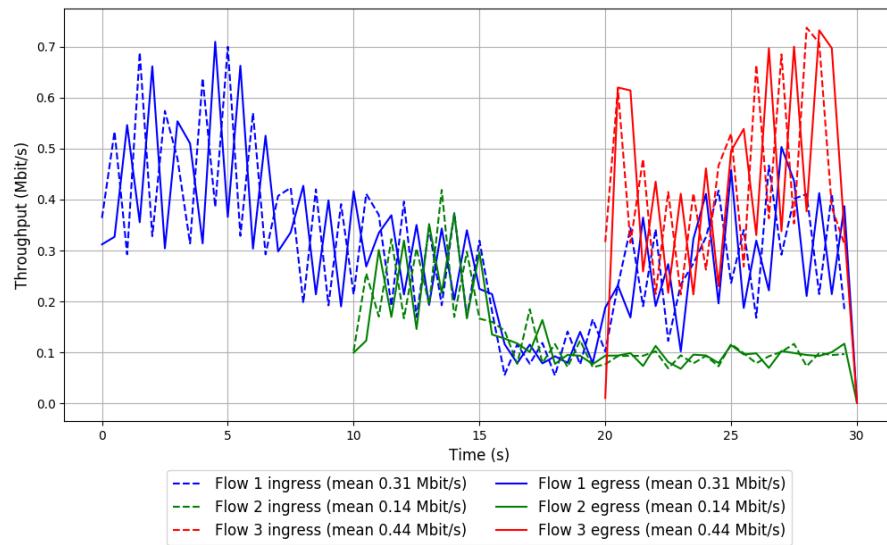
Run 6: Statistics of Sprout

Start at: 2017-12-21 08:49:21

End at: 2017-12-21 08:49:51

```
# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 164.031 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 164.012 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 163.927 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 164.127 ms
Loss rate: 0.02%
```

Run 6: Report of Sprout — Data Link



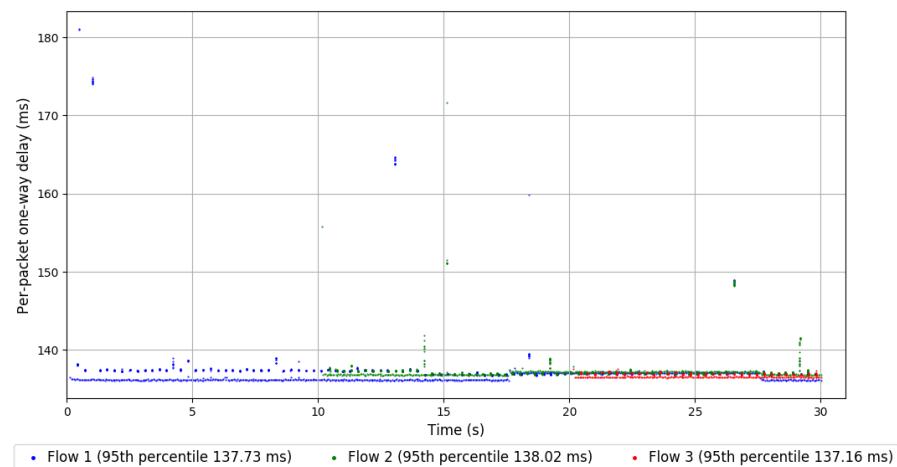
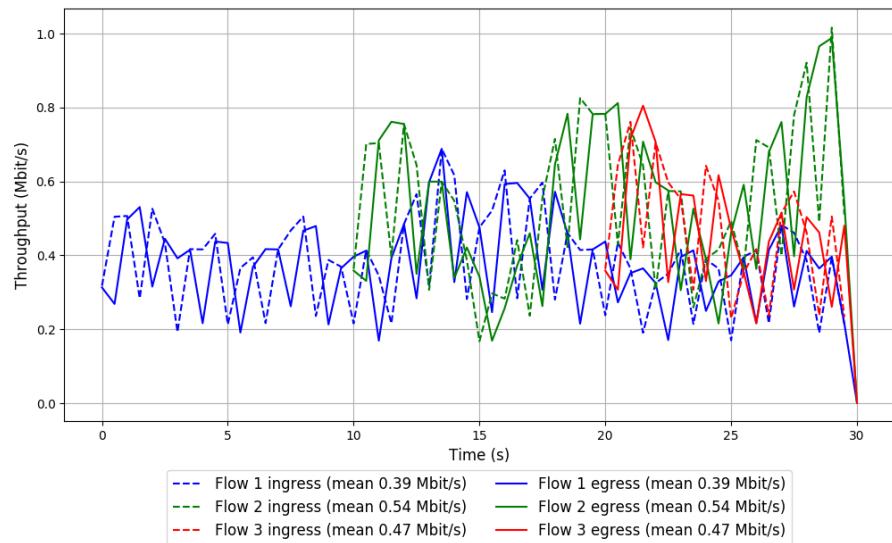
Run 7: Statistics of Sprout

Start at: 2017-12-21 09:05:01

End at: 2017-12-21 09:05:31

```
# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.90 Mbit/s
95th percentile per-packet one-way delay: 137.611 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 137.733 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 138.020 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 137.159 ms
Loss rate: 0.00%
```

Run 7: Report of Sprout — Data Link



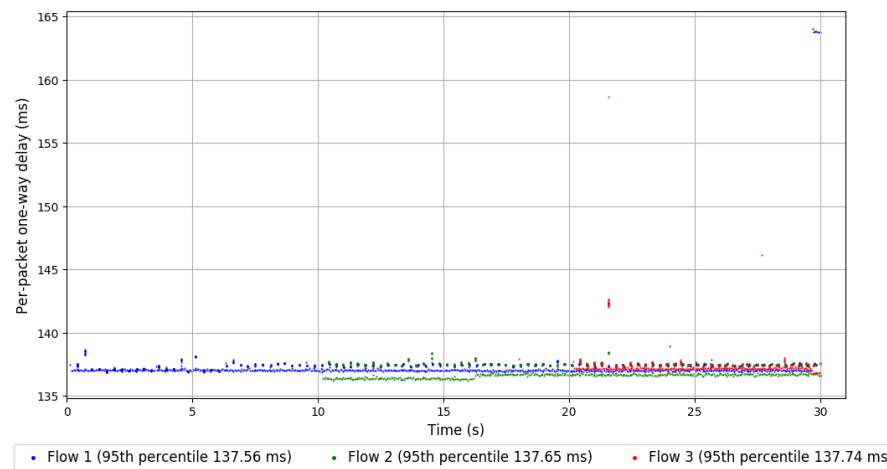
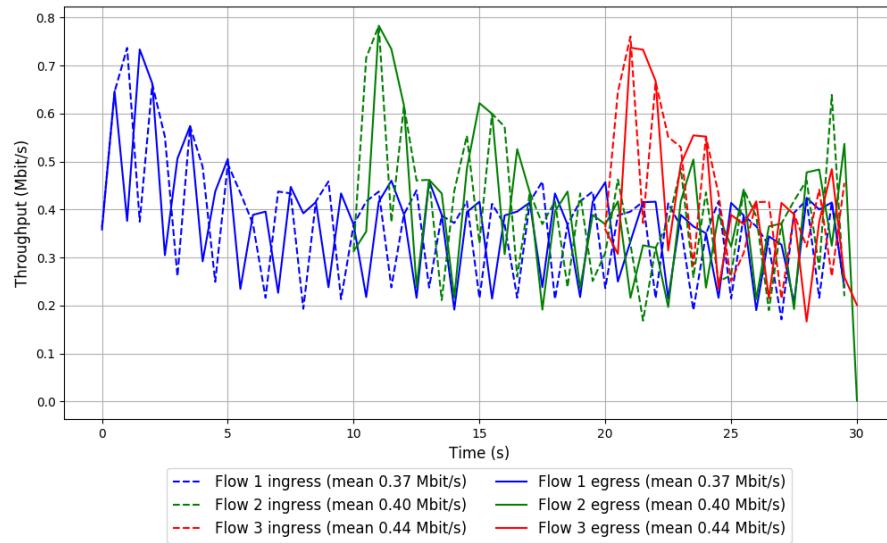
Run 8: Statistics of Sprout

Start at: 2017-12-21 09:21:18

End at: 2017-12-21 09:21:48

```
# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 137.644 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 137.561 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 137.648 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.740 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link



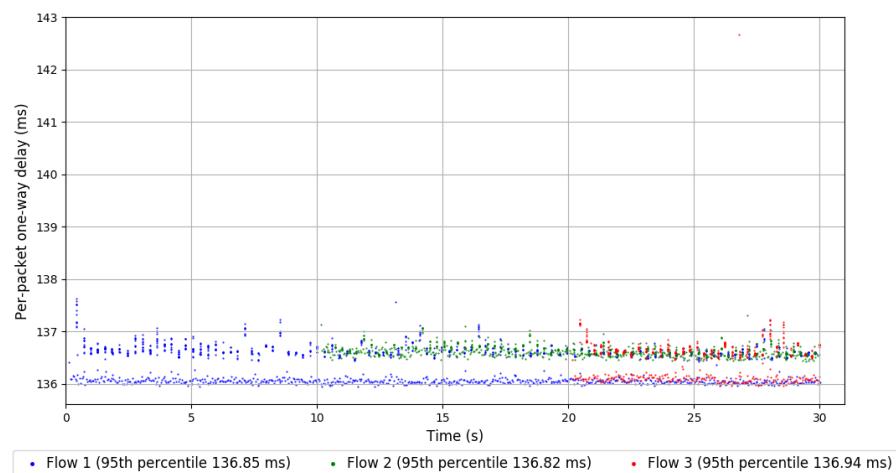
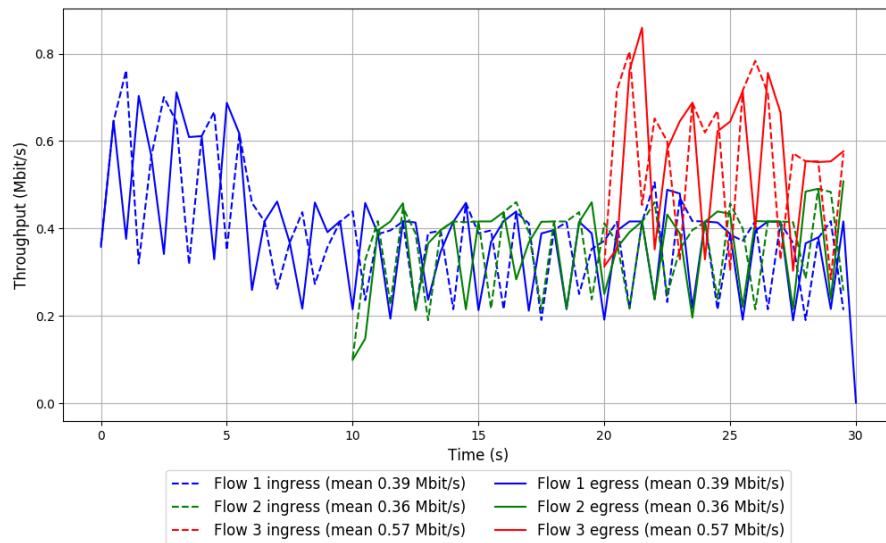
Run 9: Statistics of Sprout

Start at: 2017-12-21 09:37:32

End at: 2017-12-21 09:38:02

```
# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.82 Mbit/s
95th percentile per-packet one-way delay: 136.840 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 136.847 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 136.816 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 136.939 ms
Loss rate: 0.00%
```

Run 9: Report of Sprout — Data Link



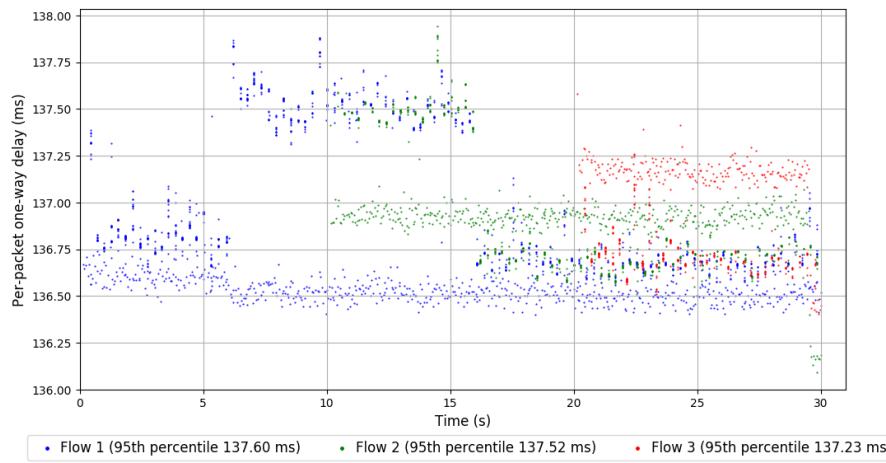
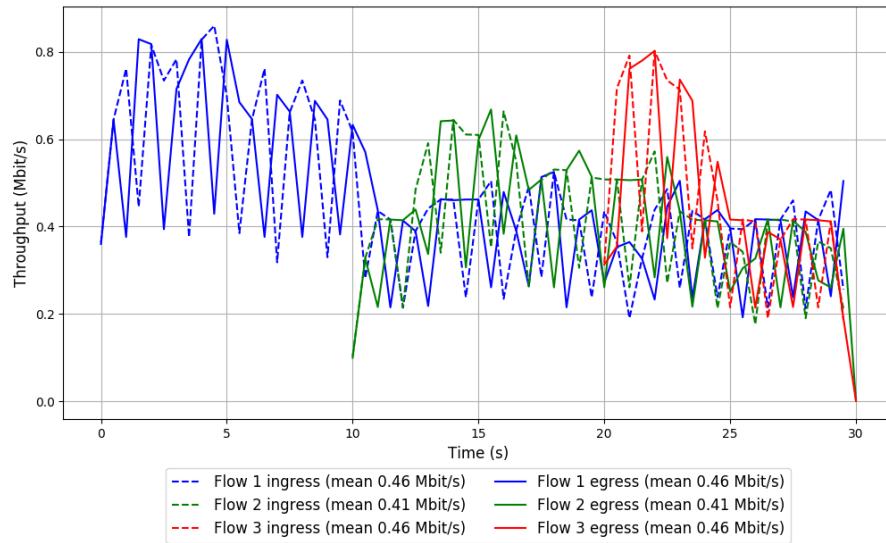
Run 10: Statistics of Sprout

Start at: 2017-12-21 09:53:49

End at: 2017-12-21 09:54:19

```
# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.89 Mbit/s
95th percentile per-packet one-way delay: 137.553 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 137.598 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 137.520 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 137.231 ms
Loss rate: 0.00%
```

Run 10: Report of Sprout — Data Link

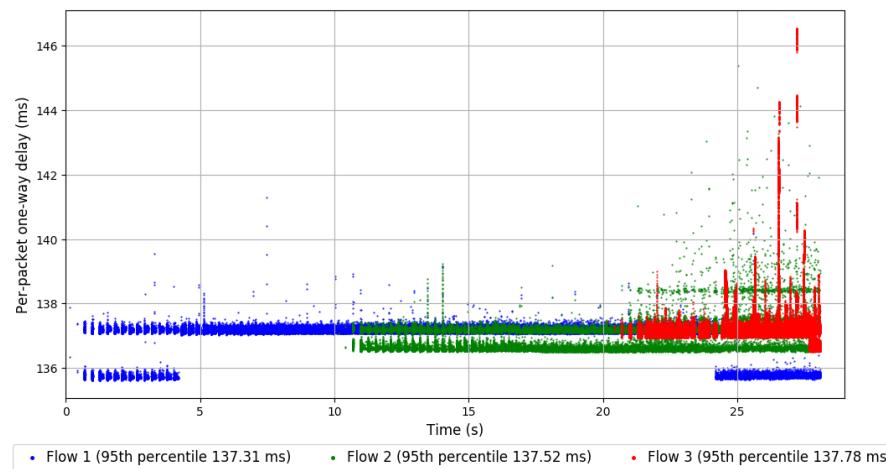
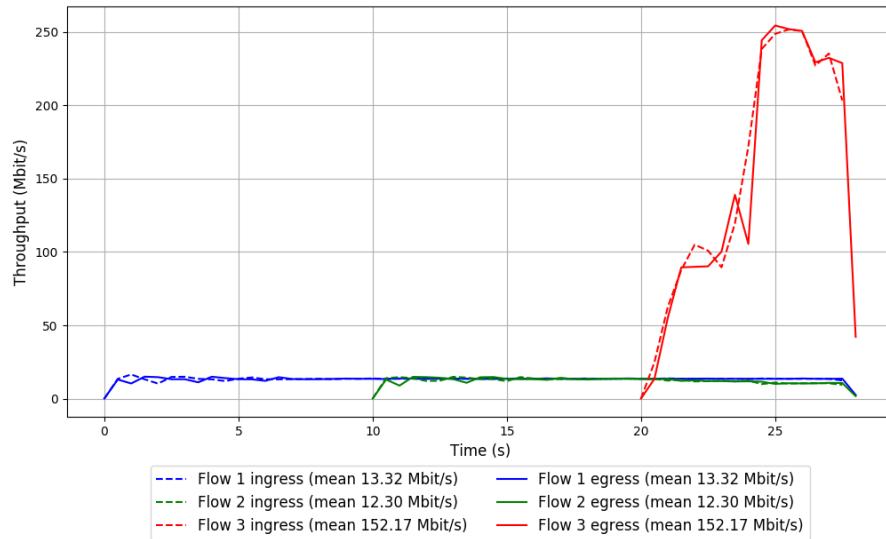


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-21 07:37:28
End at: 2017-12-21 07:37:58

# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.44 Mbit/s
95th percentile per-packet one-way delay: 137.534 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.32 Mbit/s
95th percentile per-packet one-way delay: 137.313 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.30 Mbit/s
95th percentile per-packet one-way delay: 137.518 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 152.17 Mbit/s
95th percentile per-packet one-way delay: 137.775 ms
Loss rate: 0.00%
```

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



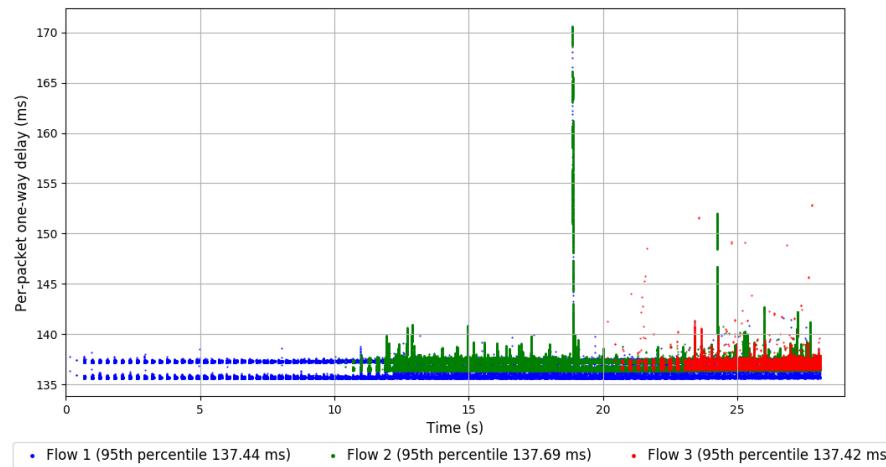
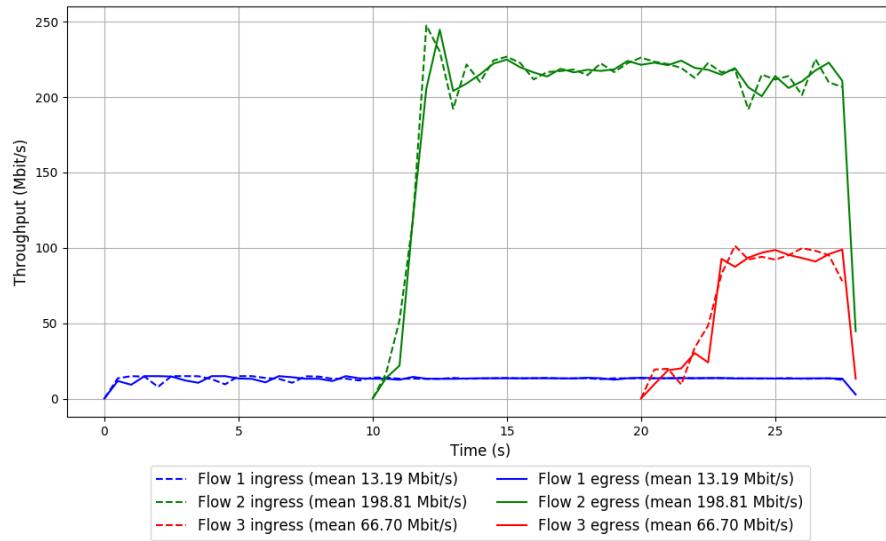
Run 2: Statistics of TaoVA-100x

Start at: 2017-12-21 07:53:10

End at: 2017-12-21 07:53:40

```
# Below is generated by plot.py at 2017-12-21 11:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 159.75 Mbit/s
95th percentile per-packet one-way delay: 137.600 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.19 Mbit/s
95th percentile per-packet one-way delay: 137.439 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 198.81 Mbit/s
95th percentile per-packet one-way delay: 137.691 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 66.70 Mbit/s
95th percentile per-packet one-way delay: 137.417 ms
Loss rate: 0.00%
```

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



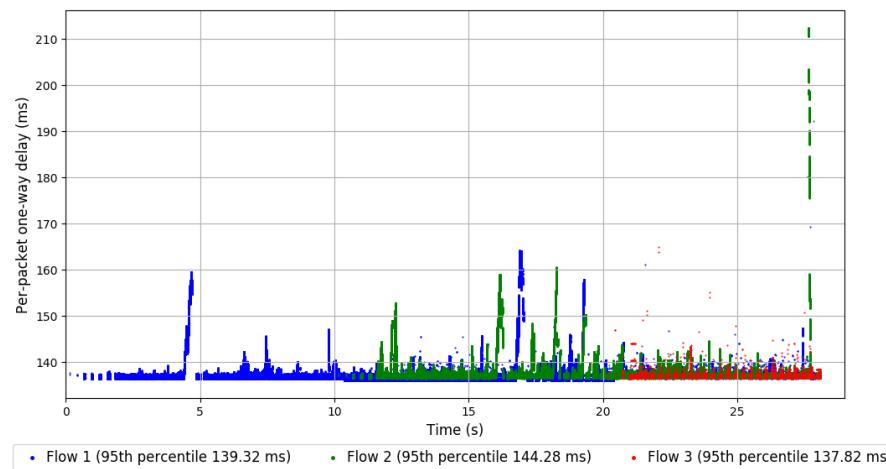
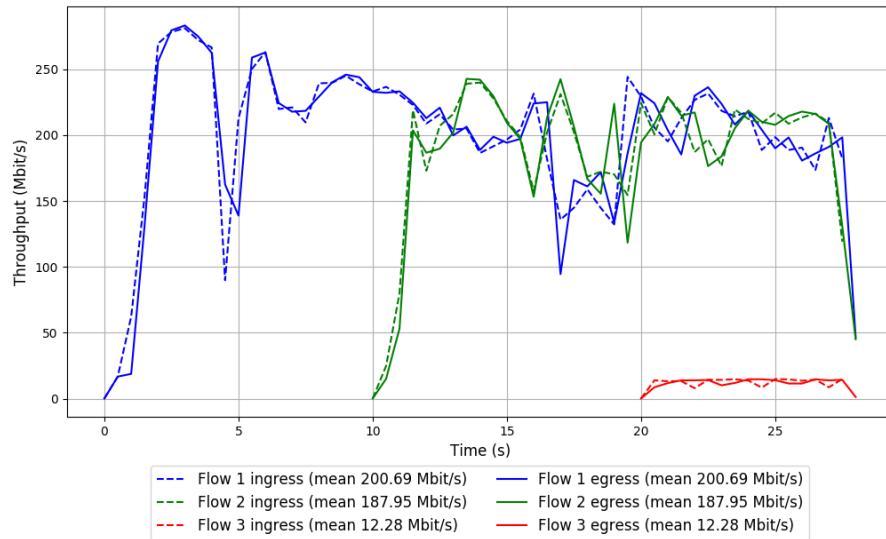
Run 3: Statistics of TaoVA-100x

Start at: 2017-12-21 08:09:06

End at: 2017-12-21 08:09:36

```
# Below is generated by plot.py at 2017-12-21 11:40:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 324.84 Mbit/s
95th percentile per-packet one-way delay: 141.113 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 200.69 Mbit/s
95th percentile per-packet one-way delay: 139.324 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 187.95 Mbit/s
95th percentile per-packet one-way delay: 144.283 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 12.28 Mbit/s
95th percentile per-packet one-way delay: 137.818 ms
Loss rate: 0.00%
```

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



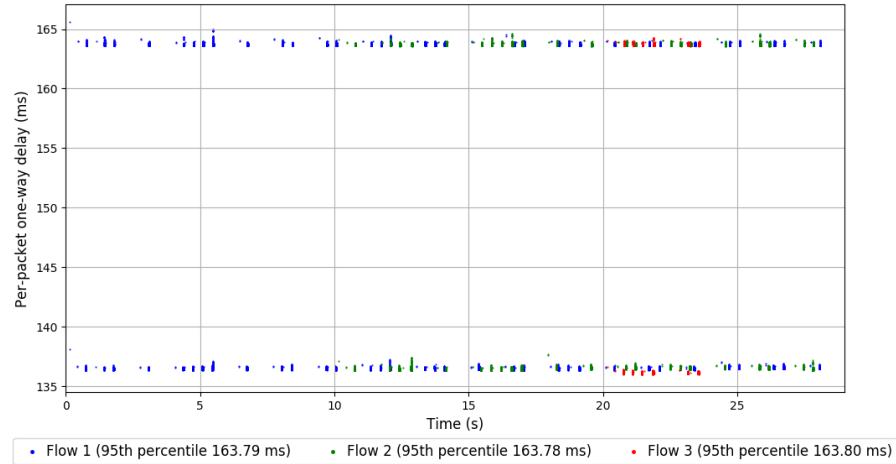
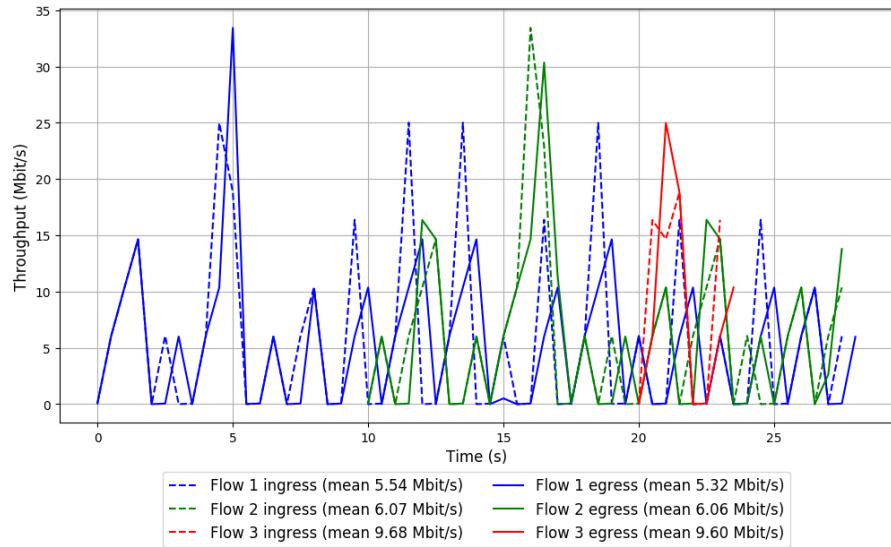
Run 4: Statistics of TaoVA-100x

Start at: 2017-12-21 08:25:29

End at: 2017-12-21 08:25:59

```
# Below is generated by plot.py at 2017-12-21 11:40:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.35 Mbit/s
95th percentile per-packet one-way delay: 163.787 ms
Loss rate: 1.98%
-- Flow 1:
Average throughput: 5.32 Mbit/s
95th percentile per-packet one-way delay: 163.791 ms
Loss rate: 3.78%
-- Flow 2:
Average throughput: 6.06 Mbit/s
95th percentile per-packet one-way delay: 163.775 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.60 Mbit/s
95th percentile per-packet one-way delay: 163.803 ms
Loss rate: 0.00%
```

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



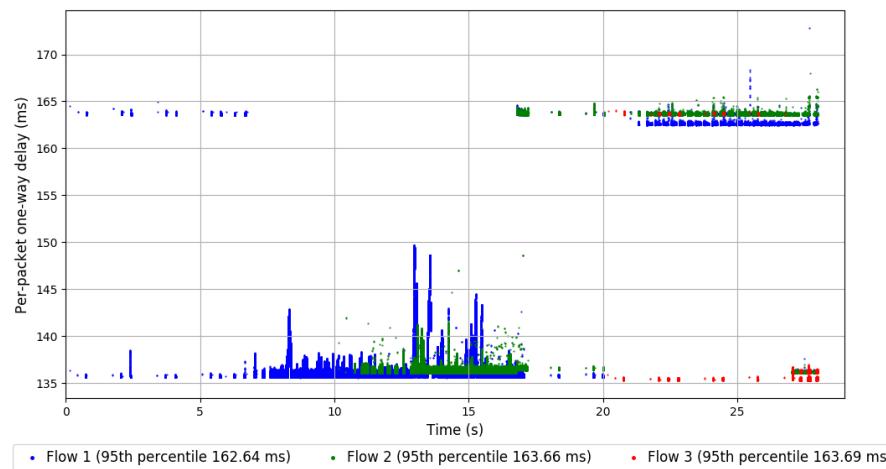
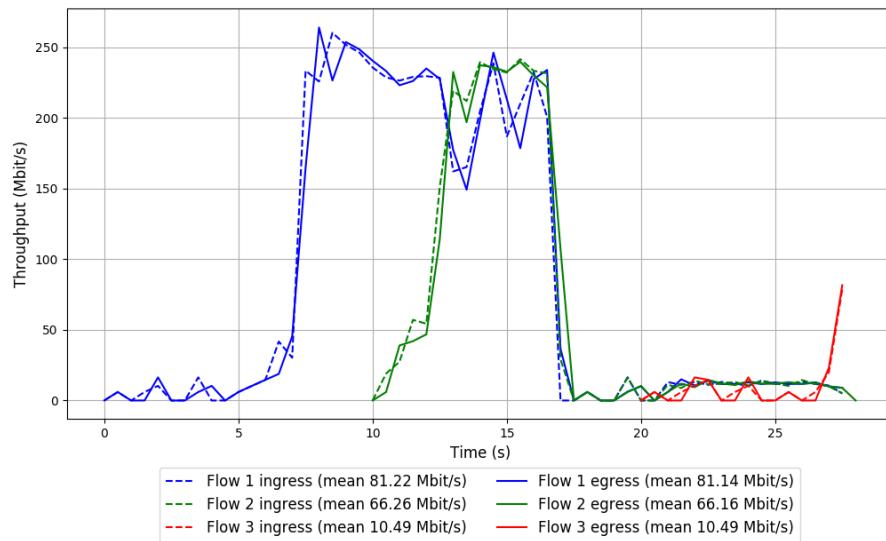
Run 5: Statistics of TaoVA-100x

Start at: 2017-12-21 08:40:46

End at: 2017-12-21 08:41:16

```
# Below is generated by plot.py at 2017-12-21 11:40:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 126.46 Mbit/s
95th percentile per-packet one-way delay: 163.618 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 81.14 Mbit/s
95th percentile per-packet one-way delay: 162.637 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 66.16 Mbit/s
95th percentile per-packet one-way delay: 163.662 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.49 Mbit/s
95th percentile per-packet one-way delay: 163.687 ms
Loss rate: 0.00%
```

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



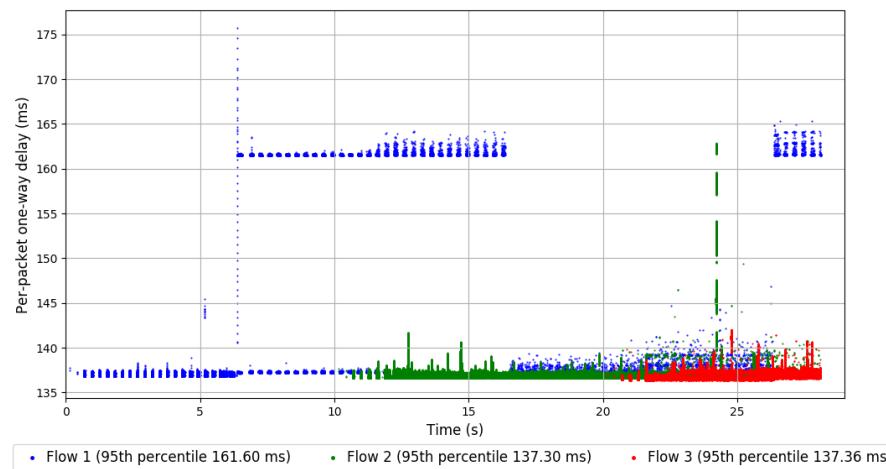
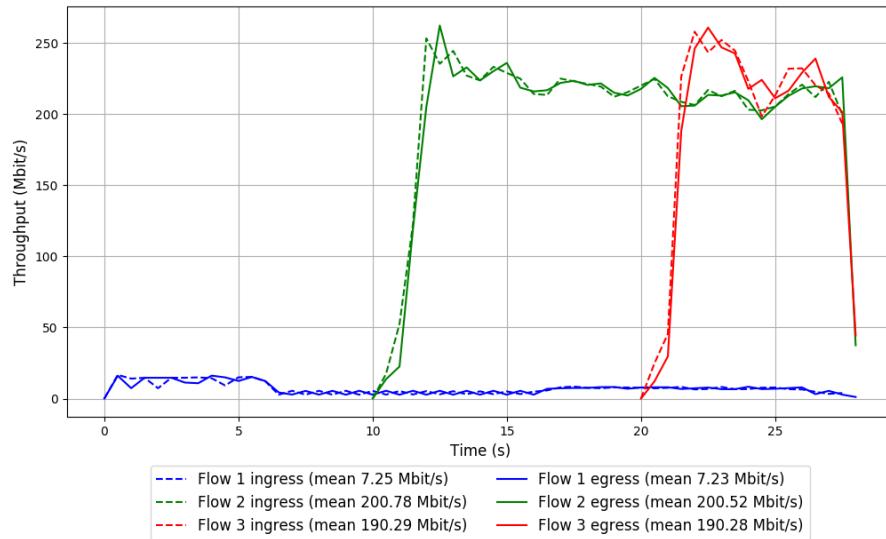
Run 6: Statistics of TaoVA-100x

Start at: 2017-12-21 08:56:20

End at: 2017-12-21 08:56:50

```
# Below is generated by plot.py at 2017-12-21 11:40:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 189.82 Mbit/s
95th percentile per-packet one-way delay: 137.338 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 7.23 Mbit/s
95th percentile per-packet one-way delay: 161.603 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 200.52 Mbit/s
95th percentile per-packet one-way delay: 137.299 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 190.28 Mbit/s
95th percentile per-packet one-way delay: 137.360 ms
Loss rate: 0.00%
```

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



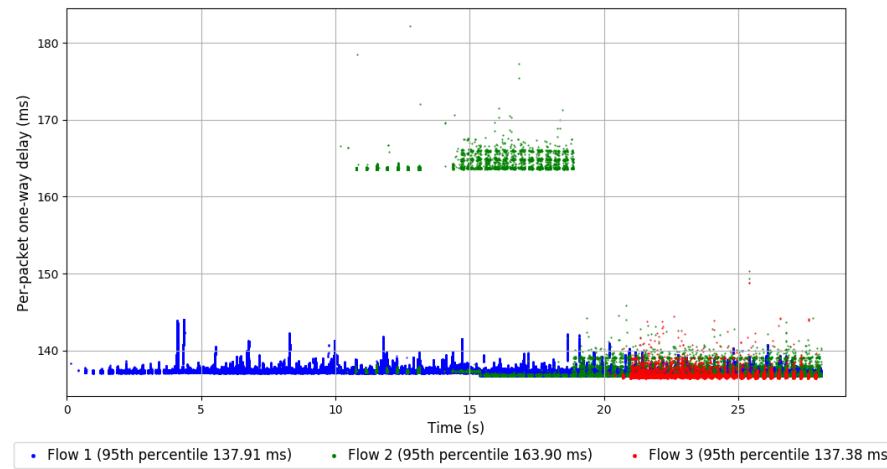
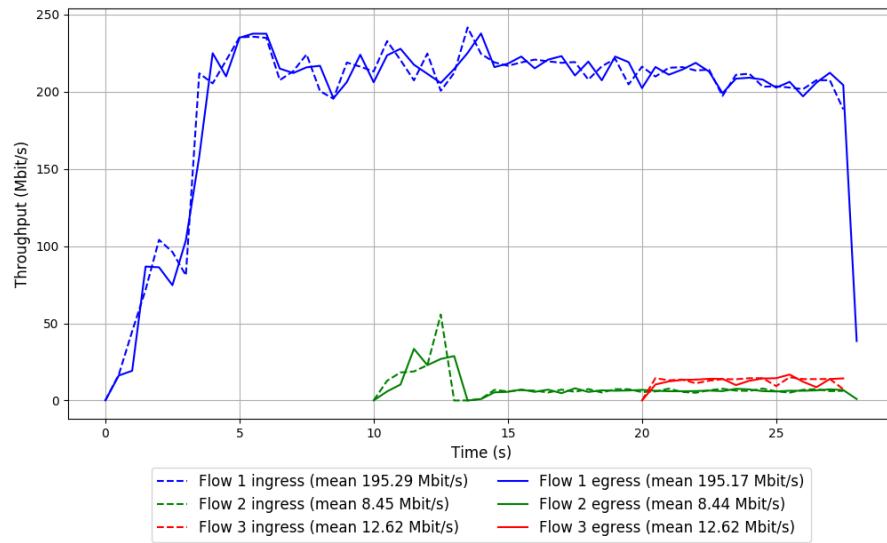
Run 7: Statistics of TaoVA-100x

Start at: 2017-12-21 09:12:07

End at: 2017-12-21 09:12:37

```
# Below is generated by plot.py at 2017-12-21 11:40:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 204.08 Mbit/s
95th percentile per-packet one-way delay: 138.049 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 195.17 Mbit/s
95th percentile per-packet one-way delay: 137.912 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 8.44 Mbit/s
95th percentile per-packet one-way delay: 163.903 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 12.62 Mbit/s
95th percentile per-packet one-way delay: 137.385 ms
Loss rate: 0.00%
```

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



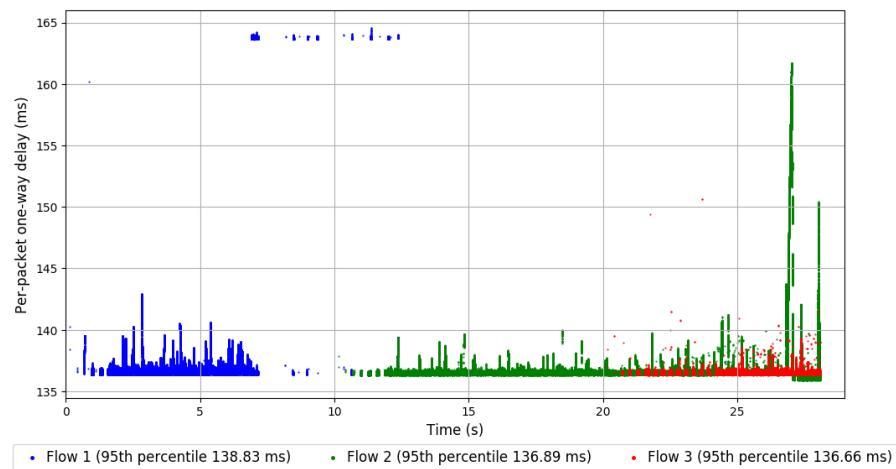
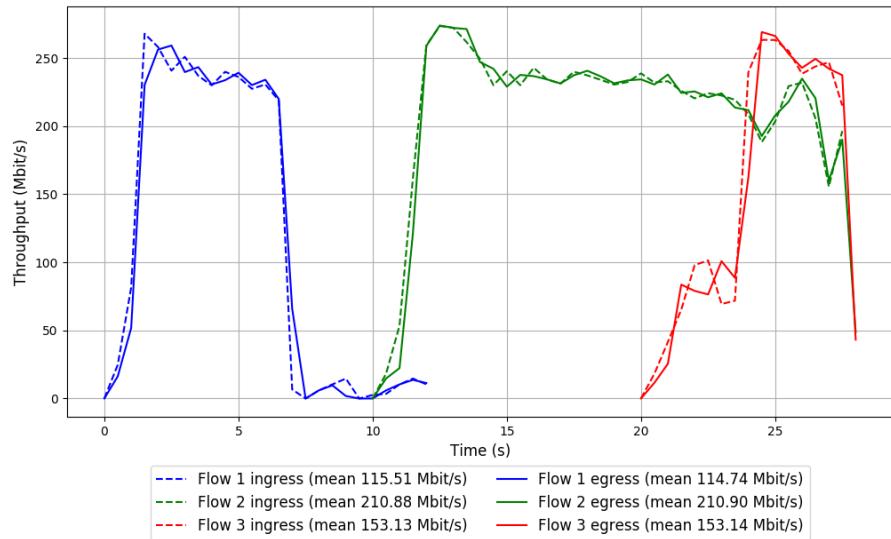
Run 8: Statistics of TaoVA-100x

Start at: 2017-12-21 09:28:29

End at: 2017-12-21 09:28:59

```
# Below is generated by plot.py at 2017-12-21 11:40:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 229.16 Mbit/s
95th percentile per-packet one-way delay: 137.220 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 114.74 Mbit/s
95th percentile per-packet one-way delay: 138.829 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 210.90 Mbit/s
95th percentile per-packet one-way delay: 136.891 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 153.14 Mbit/s
95th percentile per-packet one-way delay: 136.661 ms
Loss rate: 0.00%
```

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



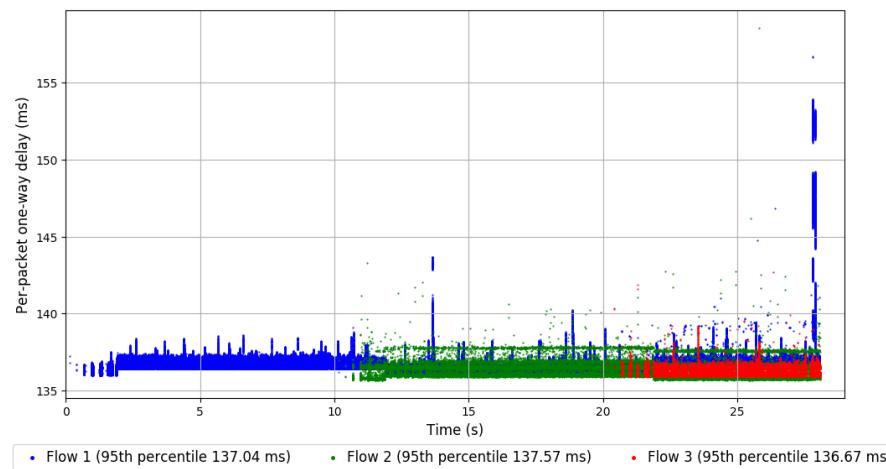
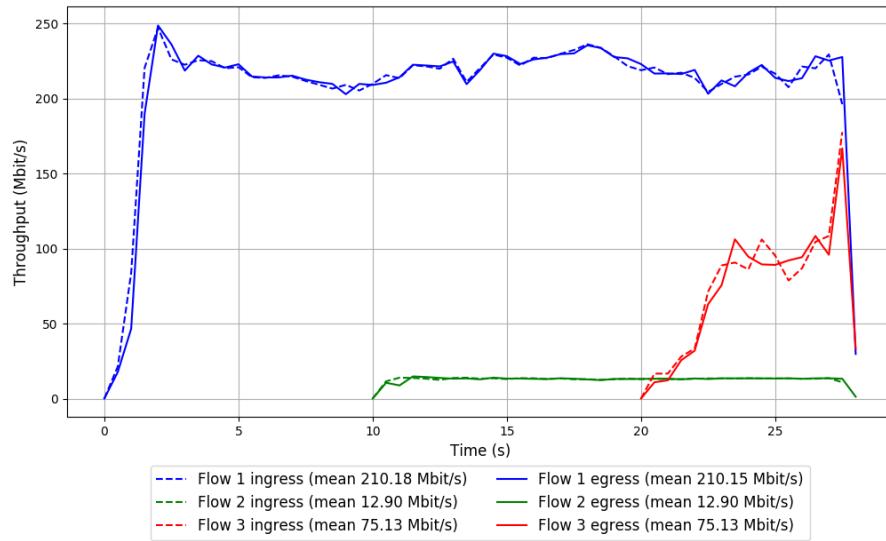
Run 9: Statistics of TaoVA-100x

Start at: 2017-12-21 09:44:41

End at: 2017-12-21 09:45:11

```
# Below is generated by plot.py at 2017-12-21 11:40:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 239.55 Mbit/s
95th percentile per-packet one-way delay: 137.030 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 210.15 Mbit/s
95th percentile per-packet one-way delay: 137.038 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.90 Mbit/s
95th percentile per-packet one-way delay: 137.575 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 75.13 Mbit/s
95th percentile per-packet one-way delay: 136.669 ms
Loss rate: 0.00%
```

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



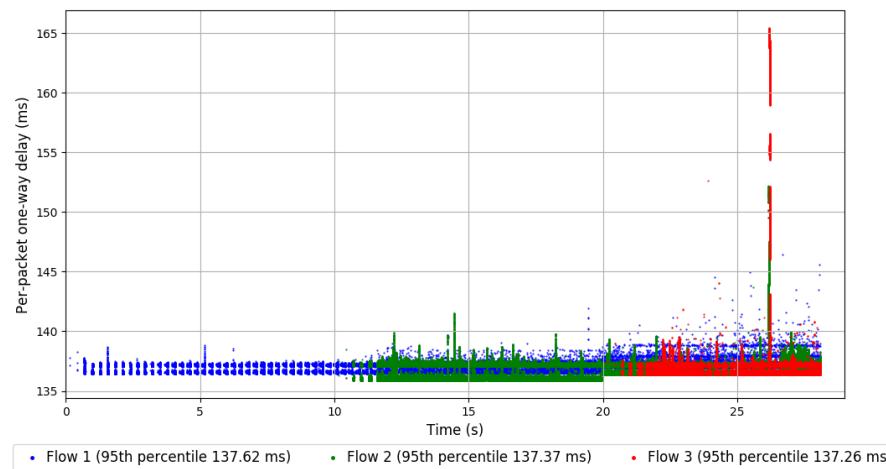
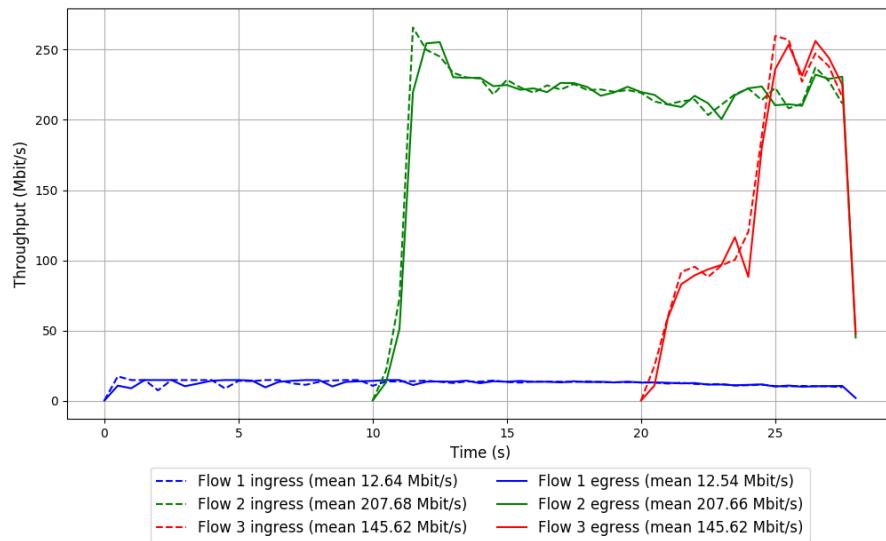
Run 10: Statistics of TaoVA-100x

Start at: 2017-12-21 10:00:56

End at: 2017-12-21 10:01:26

```
# Below is generated by plot.py at 2017-12-21 11:40:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 187.19 Mbit/s
95th percentile per-packet one-way delay: 137.350 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 12.54 Mbit/s
95th percentile per-packet one-way delay: 137.623 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 207.66 Mbit/s
95th percentile per-packet one-way delay: 137.371 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 145.62 Mbit/s
95th percentile per-packet one-way delay: 137.257 ms
Loss rate: 0.00%
```

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



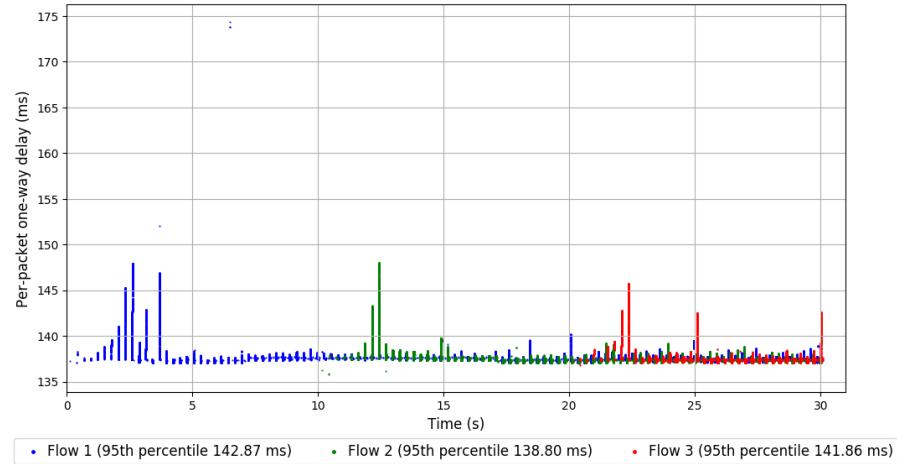
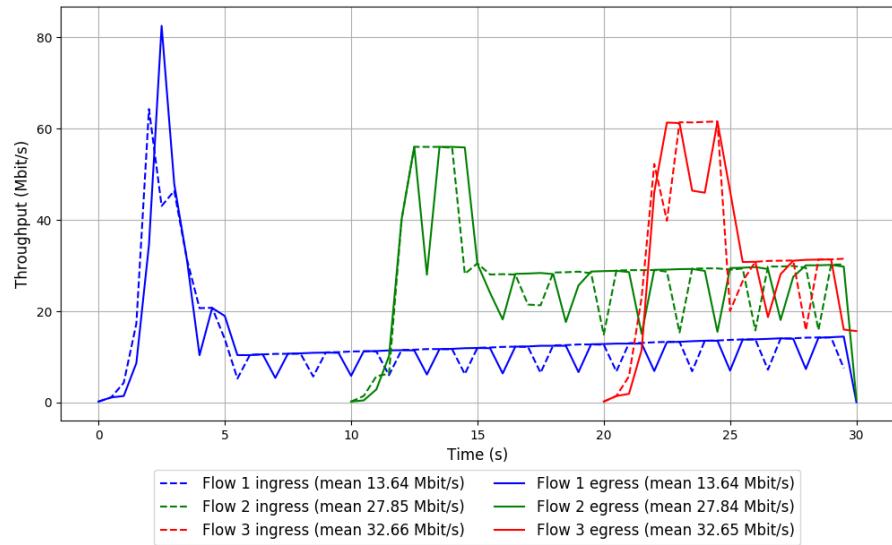
Run 1: Statistics of TCP Vegas

Start at: 2017-12-21 07:30:08

End at: 2017-12-21 07:30:38

```
# Below is generated by plot.py at 2017-12-21 11:40:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.98 Mbit/s
95th percentile per-packet one-way delay: 141.441 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 13.64 Mbit/s
95th percentile per-packet one-way delay: 142.866 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 27.84 Mbit/s
95th percentile per-packet one-way delay: 138.802 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 32.65 Mbit/s
95th percentile per-packet one-way delay: 141.858 ms
Loss rate: 0.02%
```

Run 1: Report of TCP Vegas — Data Link



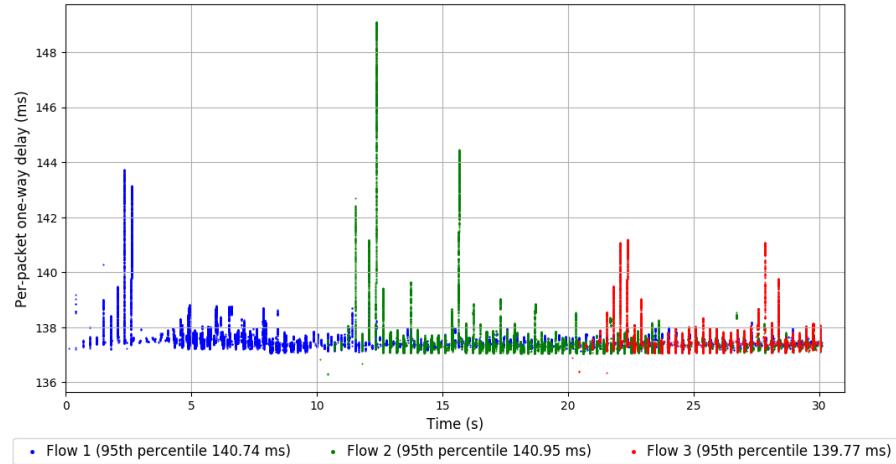
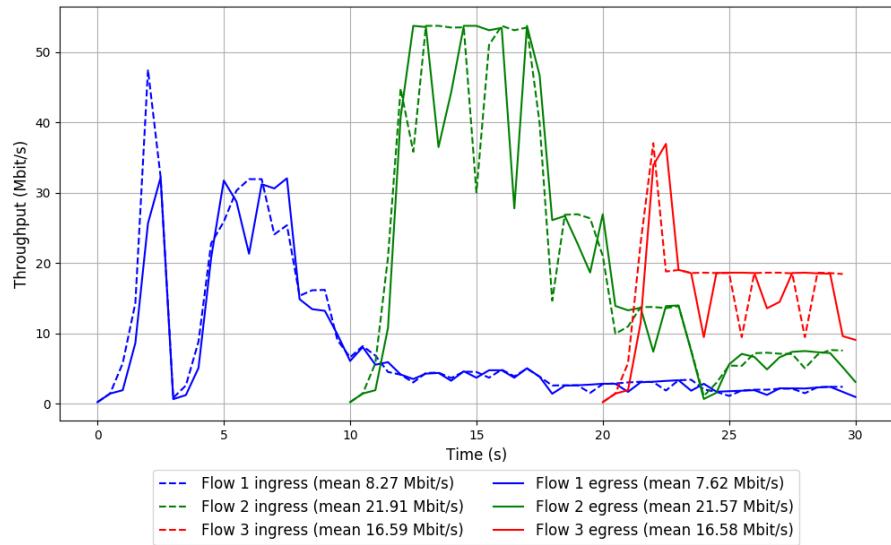
Run 2: Statistics of TCP Vegas

Start at: 2017-12-21 07:45:07

End at: 2017-12-21 07:45:37

```
# Below is generated by plot.py at 2017-12-21 11:40:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 27.46 Mbit/s
95th percentile per-packet one-way delay: 140.656 ms
Loss rate: 3.08%
-- Flow 1:
Average throughput: 7.62 Mbit/s
95th percentile per-packet one-way delay: 140.737 ms
Loss rate: 7.77%
-- Flow 2:
Average throughput: 21.57 Mbit/s
95th percentile per-packet one-way delay: 140.948 ms
Loss rate: 1.57%
-- Flow 3:
Average throughput: 16.58 Mbit/s
95th percentile per-packet one-way delay: 139.768 ms
Loss rate: 0.03%
```

Run 2: Report of TCP Vegas — Data Link



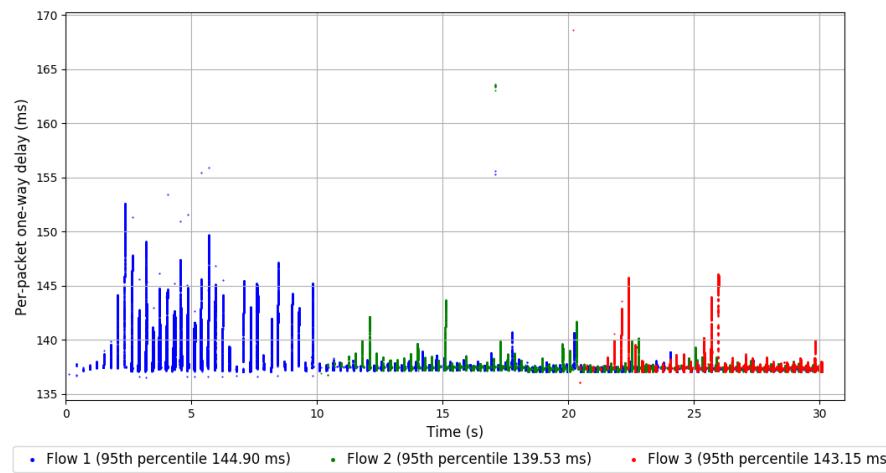
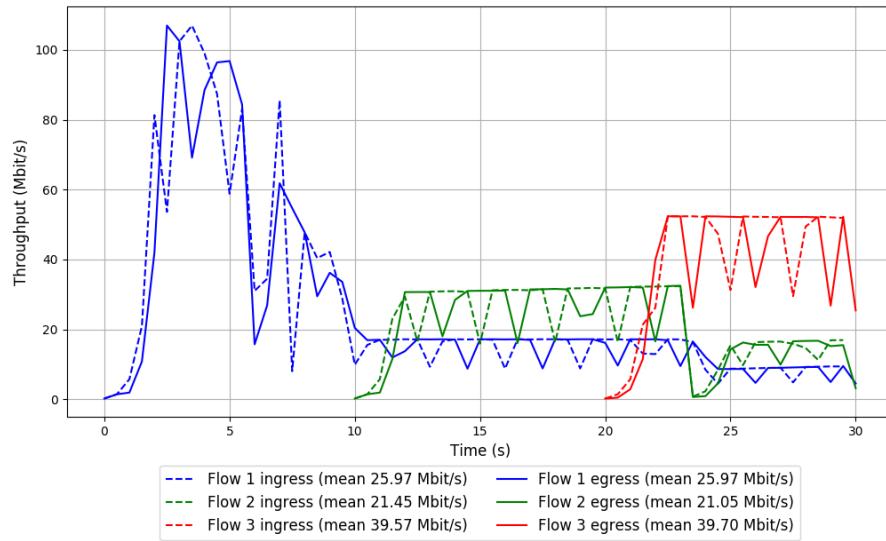
Run 3: Statistics of TCP Vegas

Start at: 2017-12-21 08:01:06

End at: 2017-12-21 08:01:36

```
# Below is generated by plot.py at 2017-12-21 11:40:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 53.10 Mbit/s
95th percentile per-packet one-way delay: 143.760 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 25.97 Mbit/s
95th percentile per-packet one-way delay: 144.900 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 21.05 Mbit/s
95th percentile per-packet one-way delay: 139.533 ms
Loss rate: 1.86%
-- Flow 3:
Average throughput: 39.70 Mbit/s
95th percentile per-packet one-way delay: 143.154 ms
Loss rate: 0.00%
```

Run 3: Report of TCP Vegas — Data Link



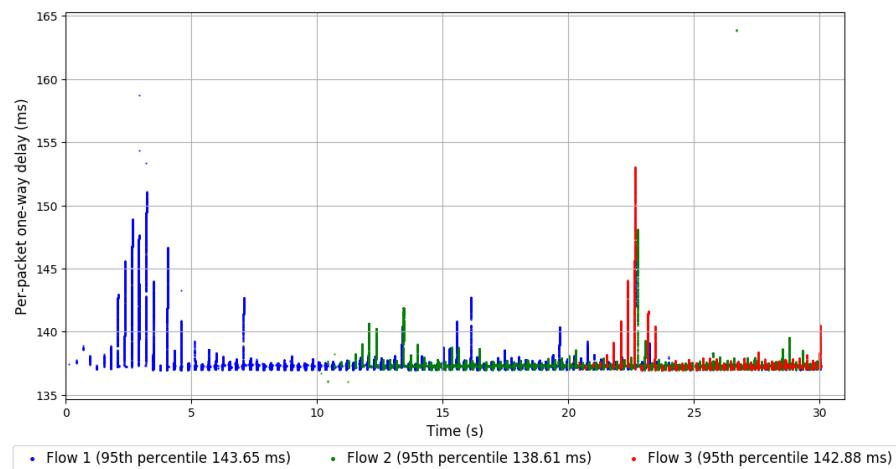
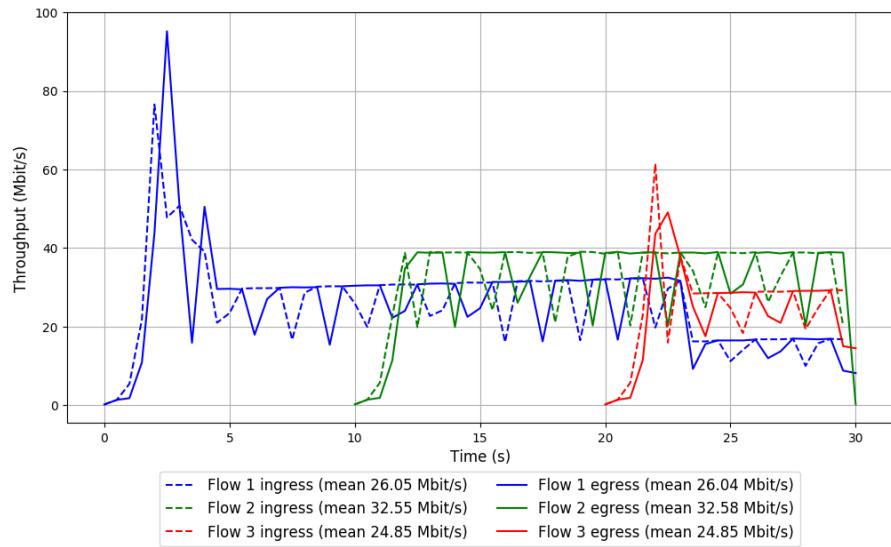
Run 4: Statistics of TCP Vegas

Start at: 2017-12-21 08:17:23

End at: 2017-12-21 08:17:53

```
# Below is generated by plot.py at 2017-12-21 11:40:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 55.96 Mbit/s
95th percentile per-packet one-way delay: 141.870 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 26.04 Mbit/s
95th percentile per-packet one-way delay: 143.648 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 32.58 Mbit/s
95th percentile per-packet one-way delay: 138.606 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.85 Mbit/s
95th percentile per-packet one-way delay: 142.876 ms
Loss rate: 0.00%
```

Run 4: Report of TCP Vegas — Data Link



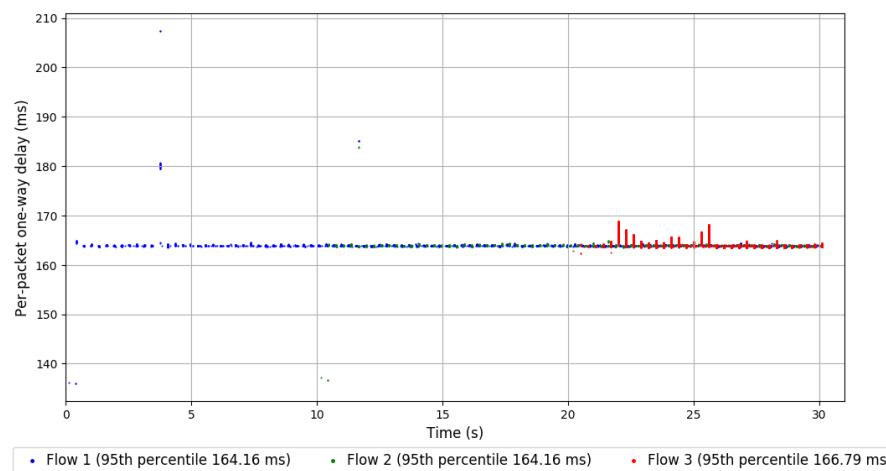
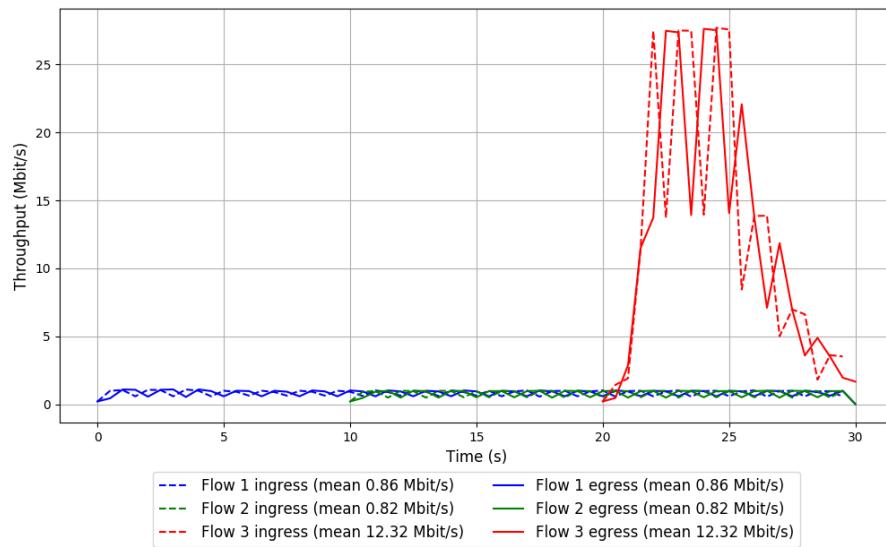
Run 5: Statistics of TCP Vegas

Start at: 2017-12-21 08:32:56

End at: 2017-12-21 08:33:26

```
# Below is generated by plot.py at 2017-12-21 11:40:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.47 Mbit/s
95th percentile per-packet one-way delay: 166.632 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.86 Mbit/s
95th percentile per-packet one-way delay: 164.162 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.82 Mbit/s
95th percentile per-packet one-way delay: 164.162 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.32 Mbit/s
95th percentile per-packet one-way delay: 166.788 ms
Loss rate: 0.03%
```

Run 5: Report of TCP Vegas — Data Link



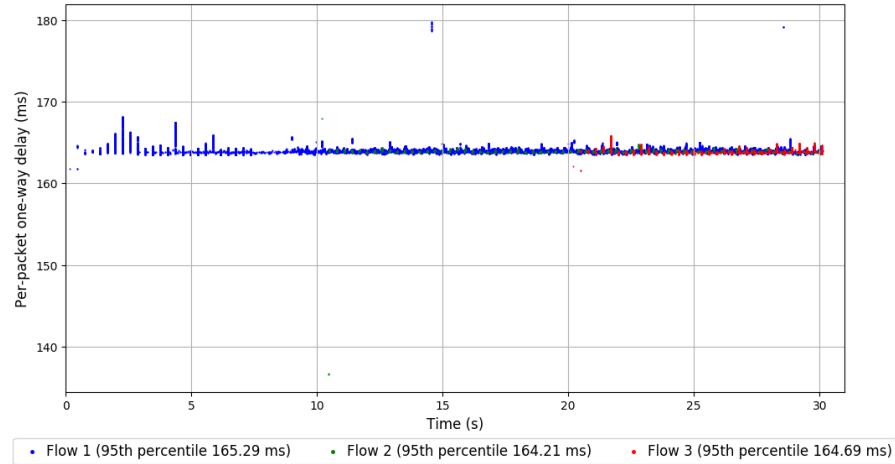
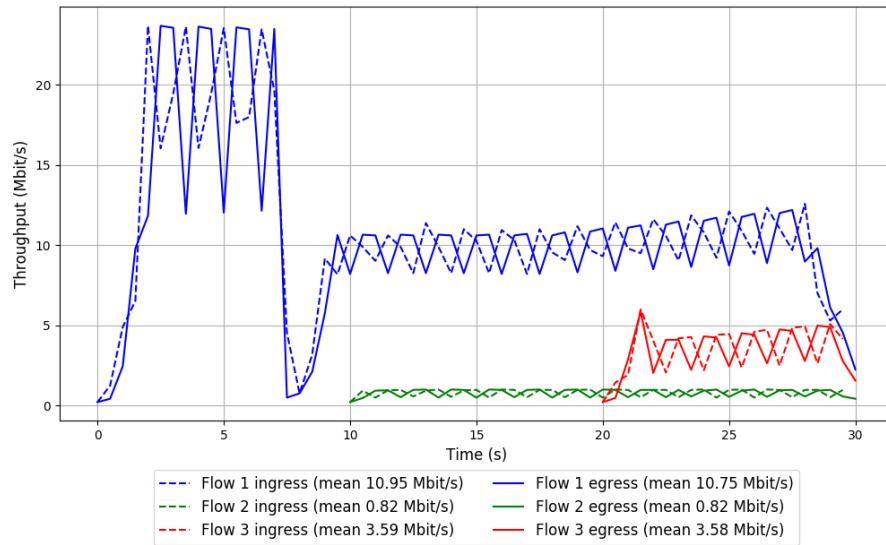
Run 6: Statistics of TCP Vegas

Start at: 2017-12-21 08:48:30

End at: 2017-12-21 08:49:00

```
# Below is generated by plot.py at 2017-12-21 11:40:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.48 Mbit/s
95th percentile per-packet one-way delay: 165.168 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 10.75 Mbit/s
95th percentile per-packet one-way delay: 165.288 ms
Loss rate: 1.85%
-- Flow 2:
Average throughput: 0.82 Mbit/s
95th percentile per-packet one-way delay: 164.211 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.58 Mbit/s
95th percentile per-packet one-way delay: 164.694 ms
Loss rate: 0.30%
```

Run 6: Report of TCP Vegas — Data Link



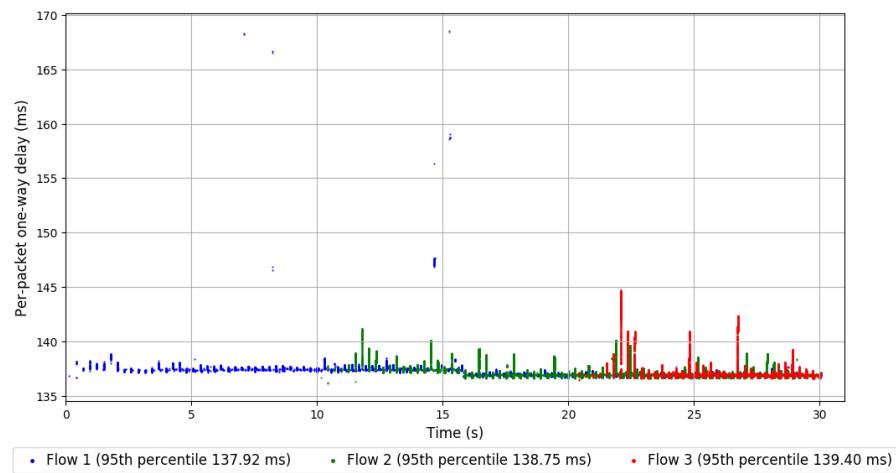
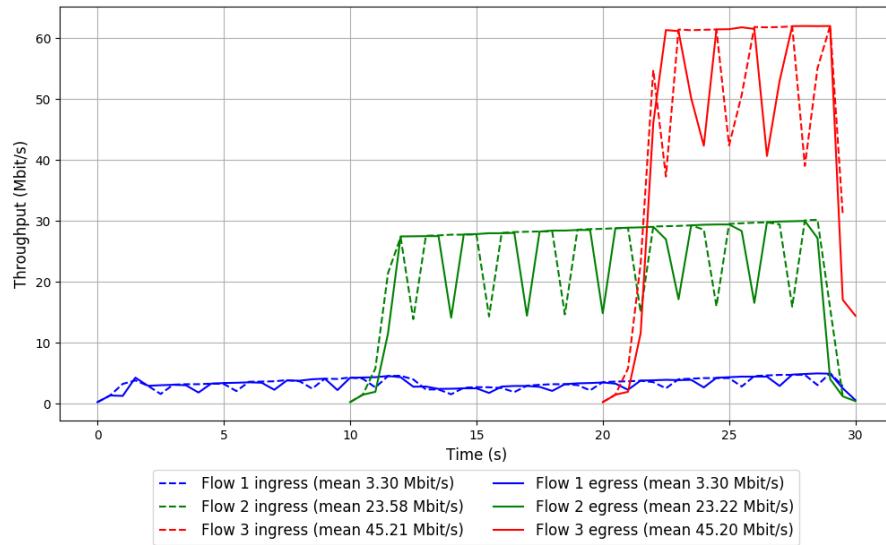
Run 7: Statistics of TCP Vegas

Start at: 2017-12-21 09:04:09

End at: 2017-12-21 09:04:39

```
# Below is generated by plot.py at 2017-12-21 11:40:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.71 Mbit/s
95th percentile per-packet one-way delay: 138.786 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 3.30 Mbit/s
95th percentile per-packet one-way delay: 137.921 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 23.22 Mbit/s
95th percentile per-packet one-way delay: 138.745 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 45.20 Mbit/s
95th percentile per-packet one-way delay: 139.396 ms
Loss rate: 0.02%
```

Run 7: Report of TCP Vegas — Data Link



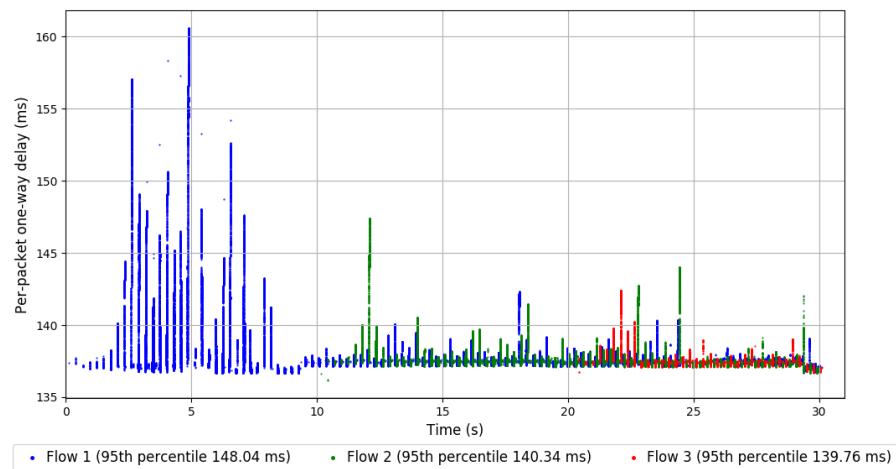
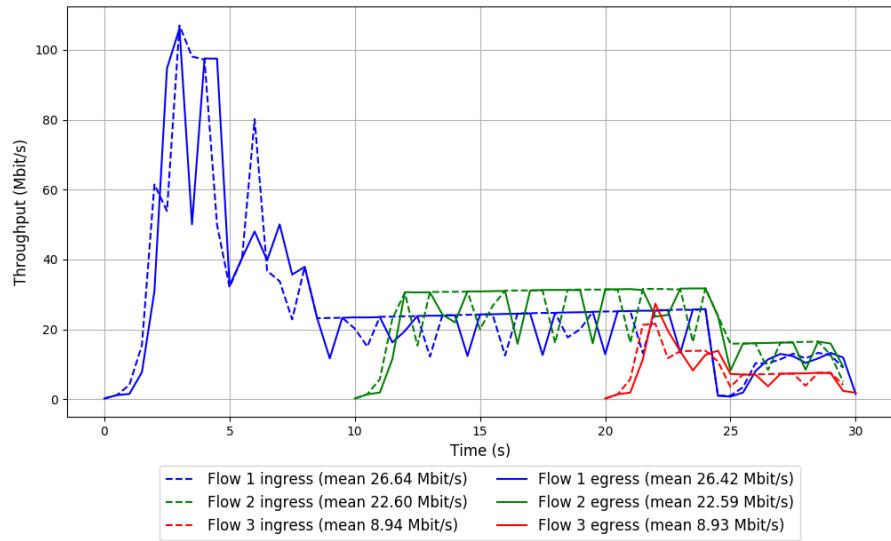
Run 8: Statistics of TCP Vegas

Start at: 2017-12-21 09:20:25

End at: 2017-12-21 09:20:55

```
# Below is generated by plot.py at 2017-12-21 11:40:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 44.33 Mbit/s
95th percentile per-packet one-way delay: 145.539 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 26.42 Mbit/s
95th percentile per-packet one-way delay: 148.044 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 22.59 Mbit/s
95th percentile per-packet one-way delay: 140.335 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 8.93 Mbit/s
95th percentile per-packet one-way delay: 139.760 ms
Loss rate: 0.14%
```

Run 8: Report of TCP Vegas — Data Link



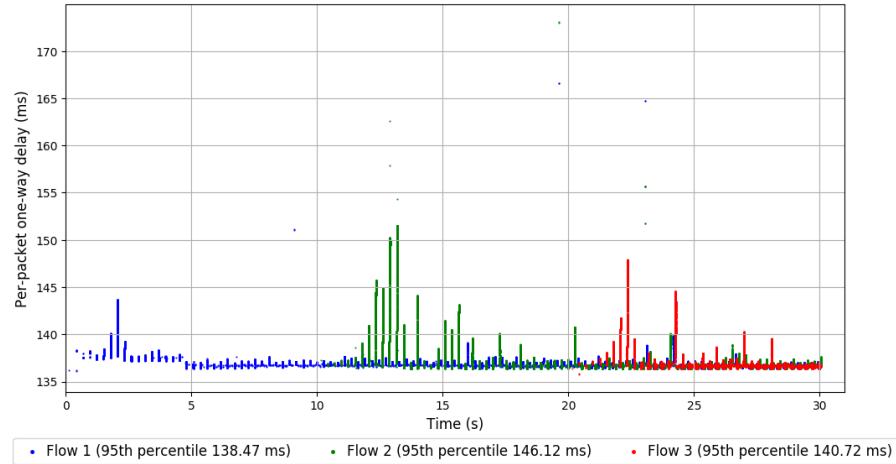
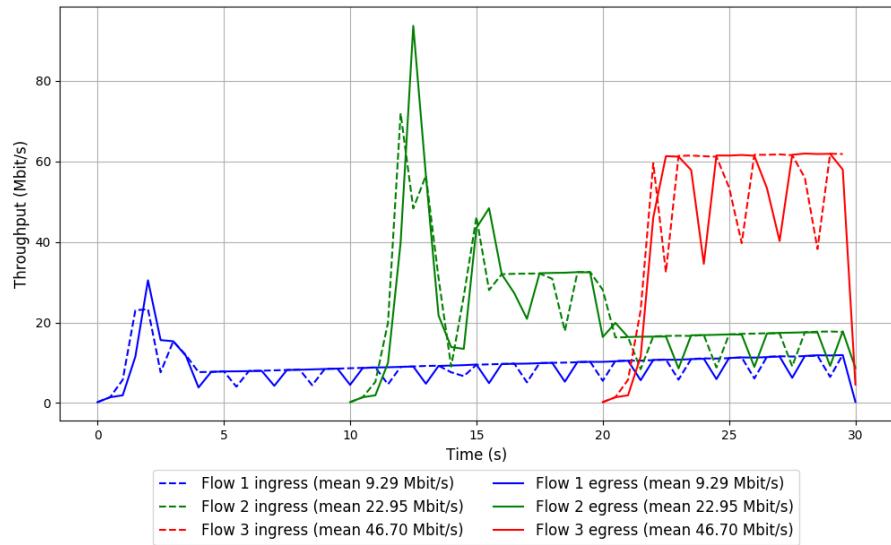
Run 9: Statistics of TCP Vegas

Start at: 2017-12-21 09:36:40

End at: 2017-12-21 09:37:10

```
# Below is generated by plot.py at 2017-12-21 11:40:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.01 Mbit/s
95th percentile per-packet one-way delay: 142.783 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 9.29 Mbit/s
95th percentile per-packet one-way delay: 138.473 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 22.95 Mbit/s
95th percentile per-packet one-way delay: 146.124 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 46.70 Mbit/s
95th percentile per-packet one-way delay: 140.725 ms
Loss rate: 0.00%
```

Run 9: Report of TCP Vegas — Data Link



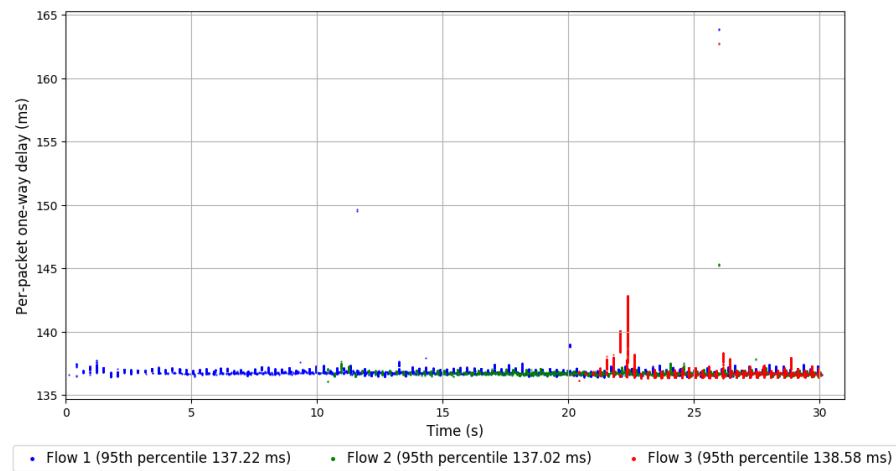
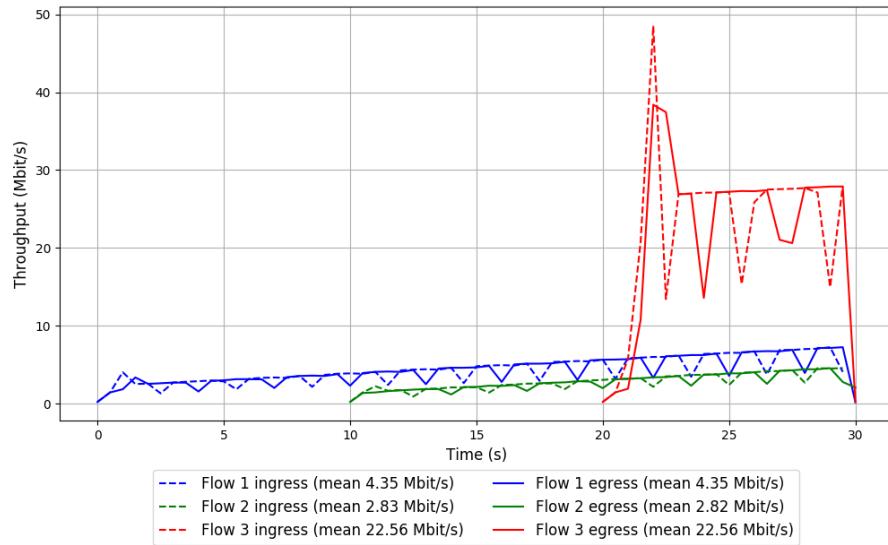
Run 10: Statistics of TCP Vegas

Start at: 2017-12-21 09:52:58

End at: 2017-12-21 09:53:28

```
# Below is generated by plot.py at 2017-12-21 11:40:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.69 Mbit/s
95th percentile per-packet one-way delay: 137.632 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 4.35 Mbit/s
95th percentile per-packet one-way delay: 137.216 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 2.82 Mbit/s
95th percentile per-packet one-way delay: 137.016 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 22.56 Mbit/s
95th percentile per-packet one-way delay: 138.576 ms
Loss rate: 0.00%
```

Run 10: Report of TCP Vegas — Data Link



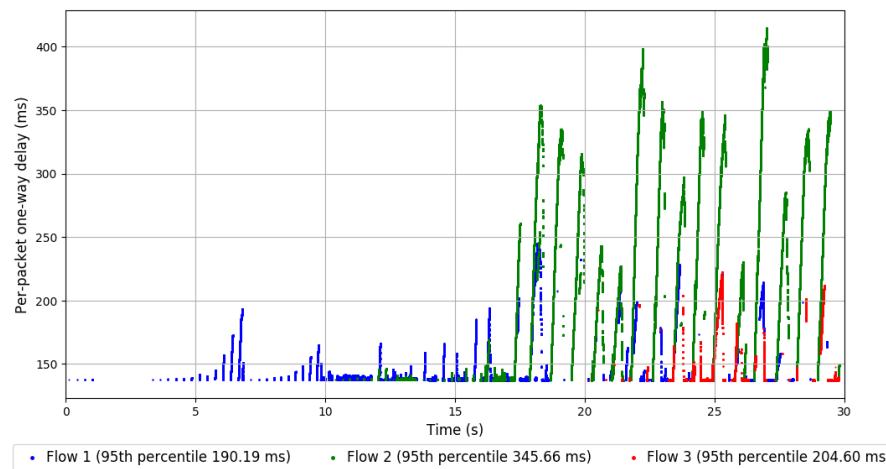
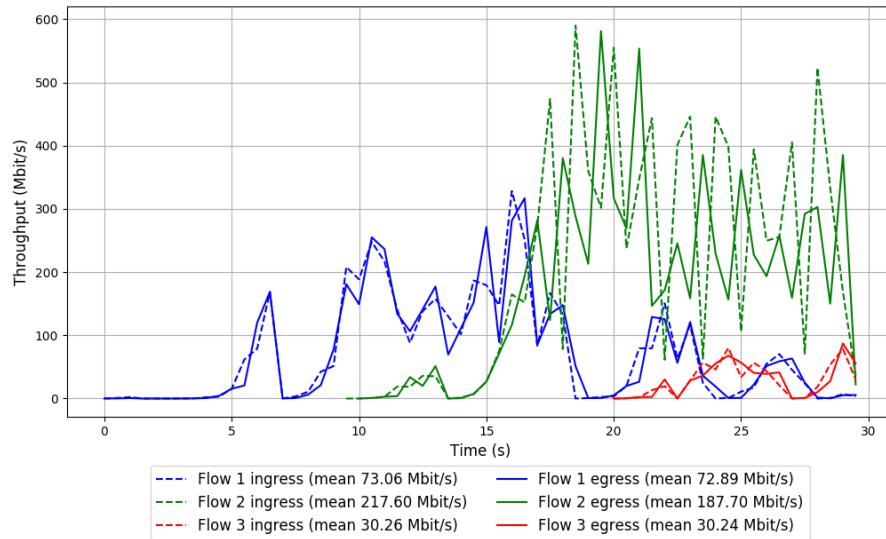
Run 1: Statistics of Verus

Start at: 2017-12-21 07:27:10

End at: 2017-12-21 07:27:40

```
# Below is generated by plot.py at 2017-12-21 11:41:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 206.84 Mbit/s
95th percentile per-packet one-way delay: 334.013 ms
Loss rate: 8.81%
-- Flow 1:
Average throughput: 72.89 Mbit/s
95th percentile per-packet one-way delay: 190.188 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 187.70 Mbit/s
95th percentile per-packet one-way delay: 345.663 ms
Loss rate: 13.72%
-- Flow 3:
Average throughput: 30.24 Mbit/s
95th percentile per-packet one-way delay: 204.604 ms
Loss rate: 0.02%
```

Run 1: Report of Verus — Data Link

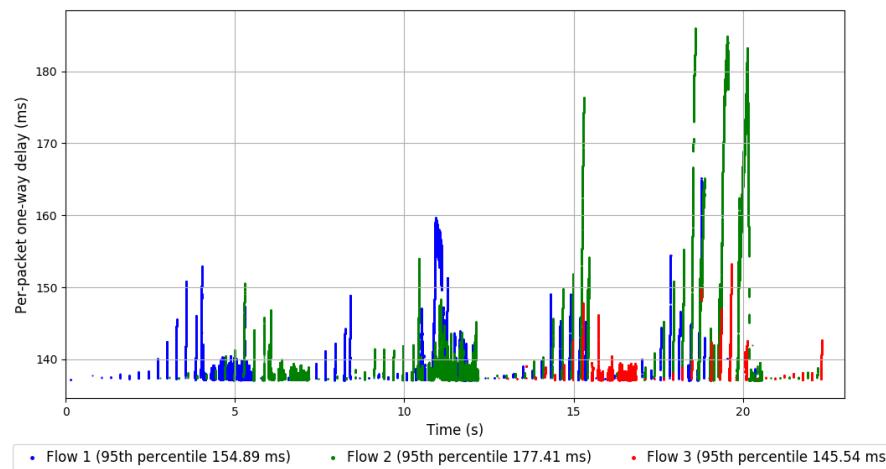
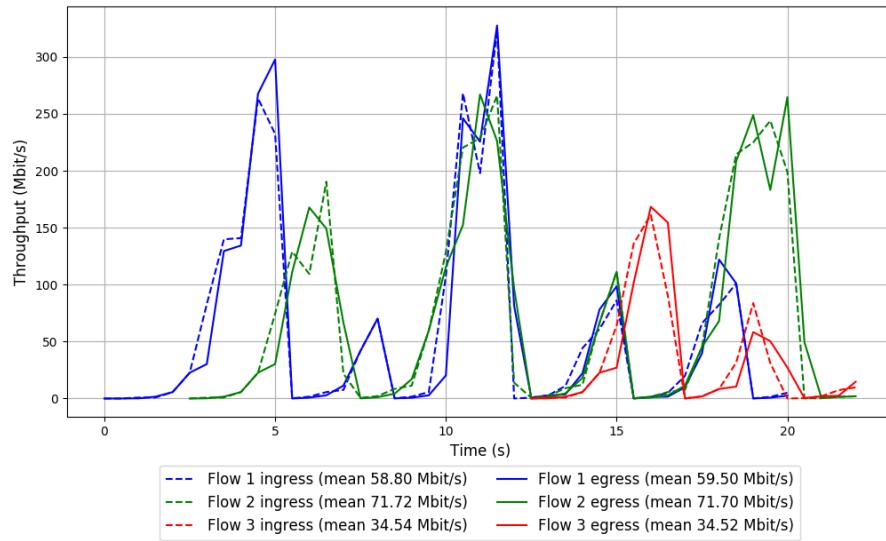


Run 2: Statistics of Verus

Start at: 2017-12-21 07:42:18

End at: 2017-12-21 07:42:48

Run 2: Report of Verus — Data Link



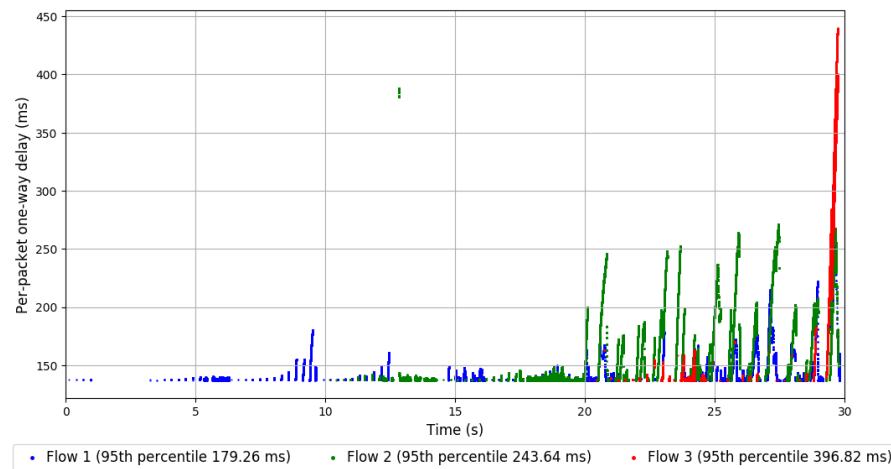
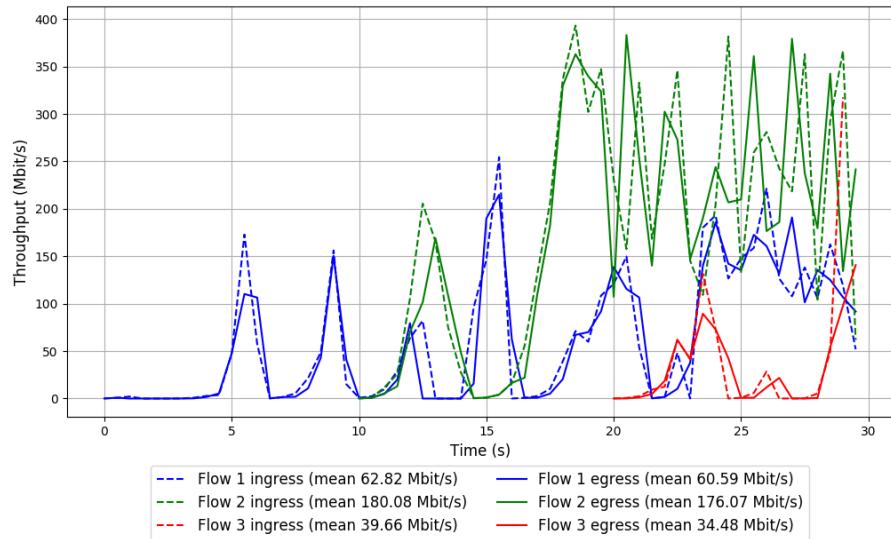
Run 3: Statistics of Verus

Start at: 2017-12-21 07:58:09

End at: 2017-12-21 07:58:39

```
# Below is generated by plot.py at 2017-12-21 11:41:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 188.07 Mbit/s
95th percentile per-packet one-way delay: 242.142 ms
Loss rate: 3.16%
-- Flow 1:
Average throughput: 60.59 Mbit/s
95th percentile per-packet one-way delay: 179.258 ms
Loss rate: 3.56%
-- Flow 2:
Average throughput: 176.07 Mbit/s
95th percentile per-packet one-way delay: 243.636 ms
Loss rate: 2.17%
-- Flow 3:
Average throughput: 34.48 Mbit/s
95th percentile per-packet one-way delay: 396.825 ms
Loss rate: 10.68%
```

Run 3: Report of Verus — Data Link



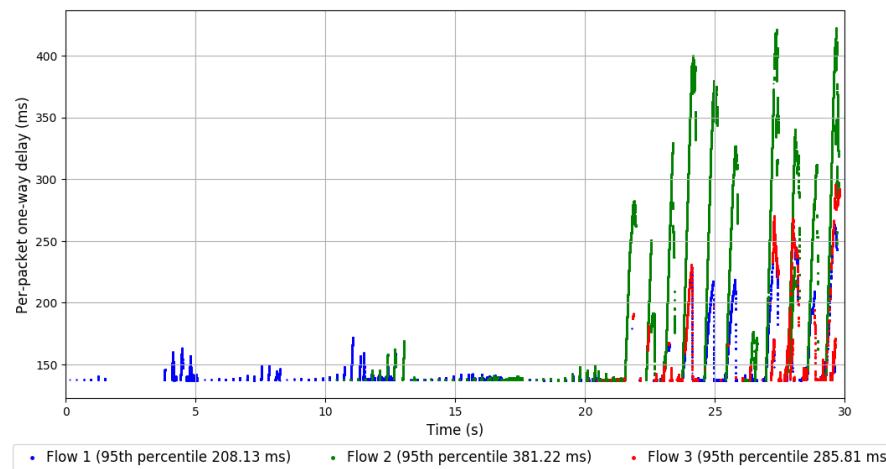
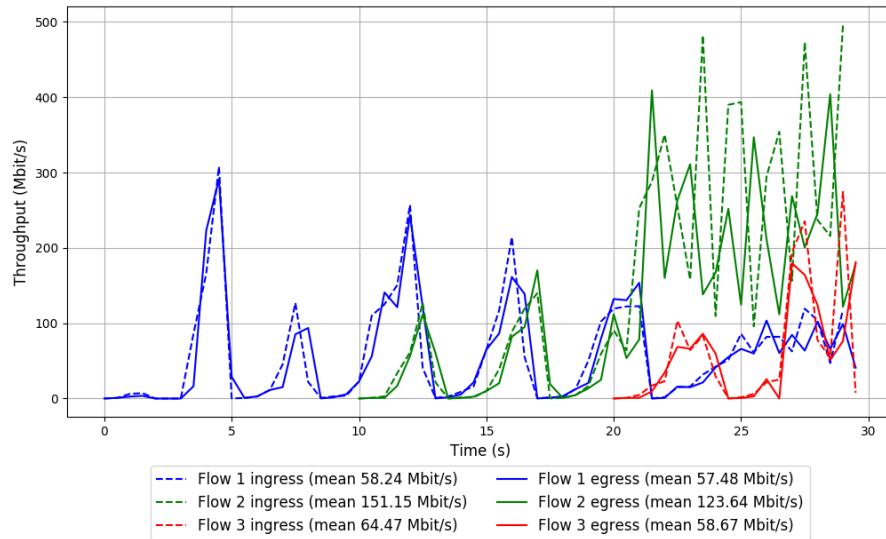
Run 4: Statistics of Verus

Start at: 2017-12-21 08:14:26

End at: 2017-12-21 08:14:56

```
# Below is generated by plot.py at 2017-12-21 11:41:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 158.07 Mbit/s
95th percentile per-packet one-way delay: 355.276 ms
Loss rate: 11.00%
-- Flow 1:
Average throughput: 57.48 Mbit/s
95th percentile per-packet one-way delay: 208.132 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 123.64 Mbit/s
95th percentile per-packet one-way delay: 381.221 ms
Loss rate: 17.58%
-- Flow 3:
Average throughput: 58.67 Mbit/s
95th percentile per-packet one-way delay: 285.805 ms
Loss rate: 7.52%
```

Run 4: Report of Verus — Data Link



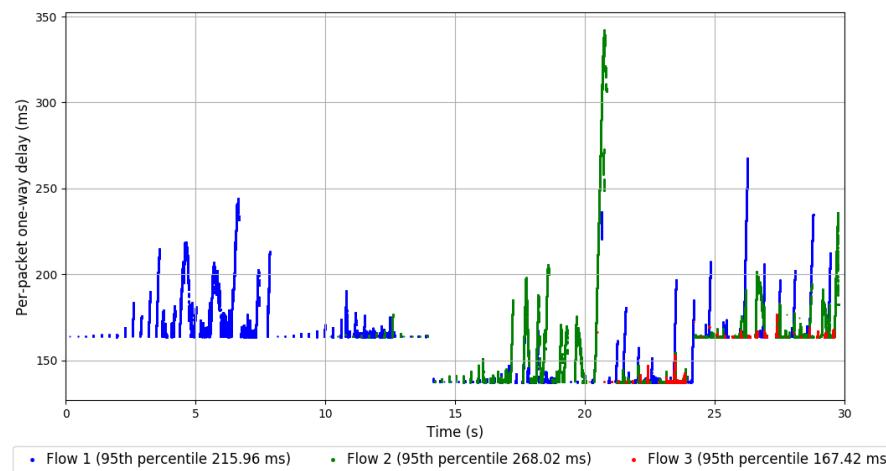
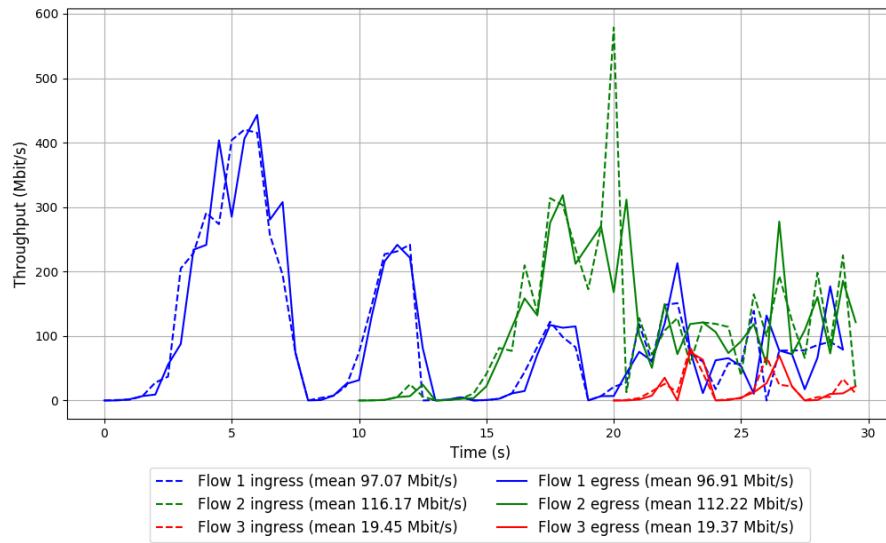
Run 5: Statistics of Verus

Start at: 2017-12-21 08:30:00

End at: 2017-12-21 08:30:30

```
# Below is generated by plot.py at 2017-12-21 11:42:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 176.33 Mbit/s
95th percentile per-packet one-way delay: 224.151 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 96.91 Mbit/s
95th percentile per-packet one-way delay: 215.955 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 112.22 Mbit/s
95th percentile per-packet one-way delay: 268.017 ms
Loss rate: 3.31%
-- Flow 3:
Average throughput: 19.37 Mbit/s
95th percentile per-packet one-way delay: 167.420 ms
Loss rate: 2.91%
```

Run 5: Report of Verus — Data Link



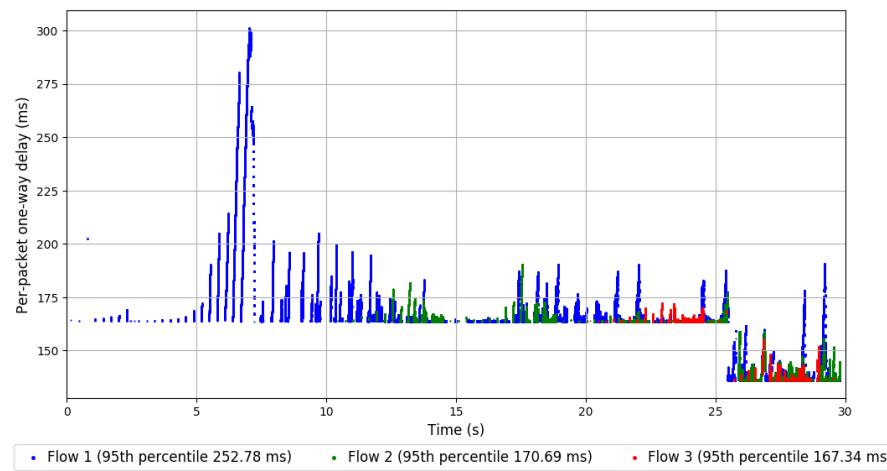
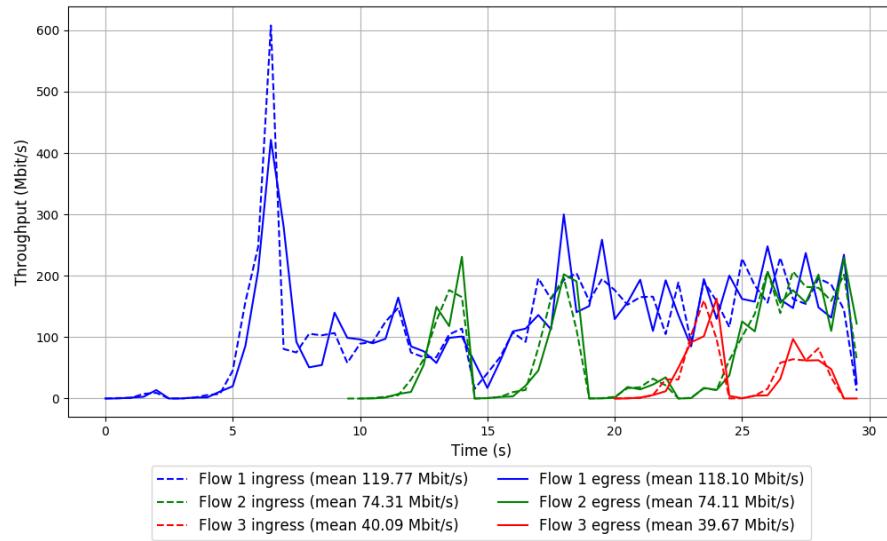
Run 6: Statistics of Verus

Start at: 2017-12-21 08:45:29

End at: 2017-12-21 08:45:59

```
# Below is generated by plot.py at 2017-12-21 11:43:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 179.78 Mbit/s
95th percentile per-packet one-way delay: 219.562 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 118.10 Mbit/s
95th percentile per-packet one-way delay: 252.778 ms
Loss rate: 1.51%
-- Flow 2:
Average throughput: 74.11 Mbit/s
95th percentile per-packet one-way delay: 170.688 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 39.67 Mbit/s
95th percentile per-packet one-way delay: 167.344 ms
Loss rate: 1.32%
```

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-12-21 09:01:28

End at: 2017-12-21 09:01:58

Run 7: Report of Verus — Data Link

Figure is missing

Figure is missing

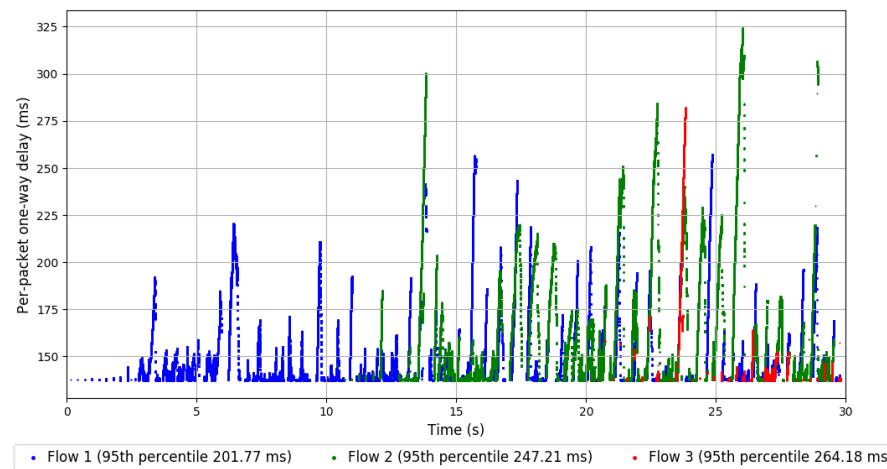
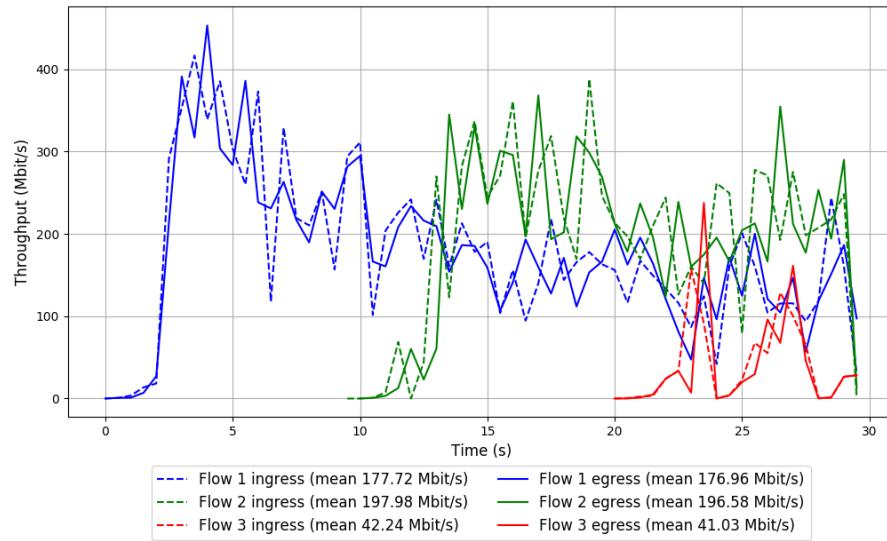
Run 8: Statistics of Verus

Start at: 2017-12-21 09:17:14

End at: 2017-12-21 09:17:44

```
# Below is generated by plot.py at 2017-12-21 11:45:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 320.16 Mbit/s
95th percentile per-packet one-way delay: 224.521 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 176.96 Mbit/s
95th percentile per-packet one-way delay: 201.769 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 196.58 Mbit/s
95th percentile per-packet one-way delay: 247.214 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 41.03 Mbit/s
95th percentile per-packet one-way delay: 264.178 ms
Loss rate: 2.86%
```

Run 8: Report of Verus — Data Link



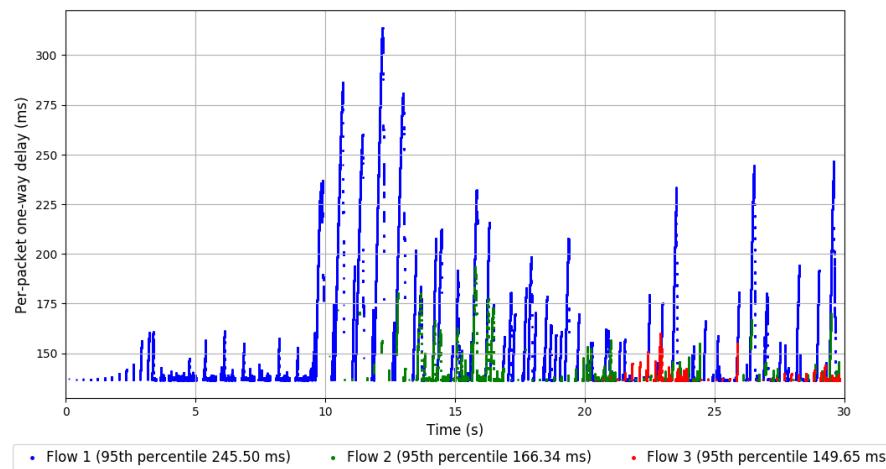
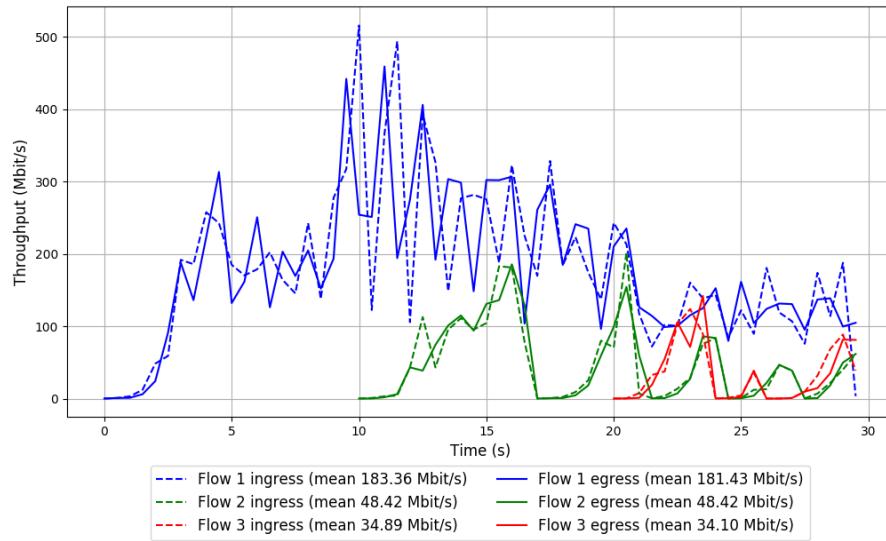
Run 9: Statistics of Verus

Start at: 2017-12-21 09:33:40

End at: 2017-12-21 09:34:10

```
# Below is generated by plot.py at 2017-12-21 11:45:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 223.68 Mbit/s
95th percentile per-packet one-way delay: 237.085 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 181.43 Mbit/s
95th percentile per-packet one-way delay: 245.501 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 48.42 Mbit/s
95th percentile per-packet one-way delay: 166.335 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 34.10 Mbit/s
95th percentile per-packet one-way delay: 149.650 ms
Loss rate: 2.28%
```

Run 9: Report of Verus — Data Link



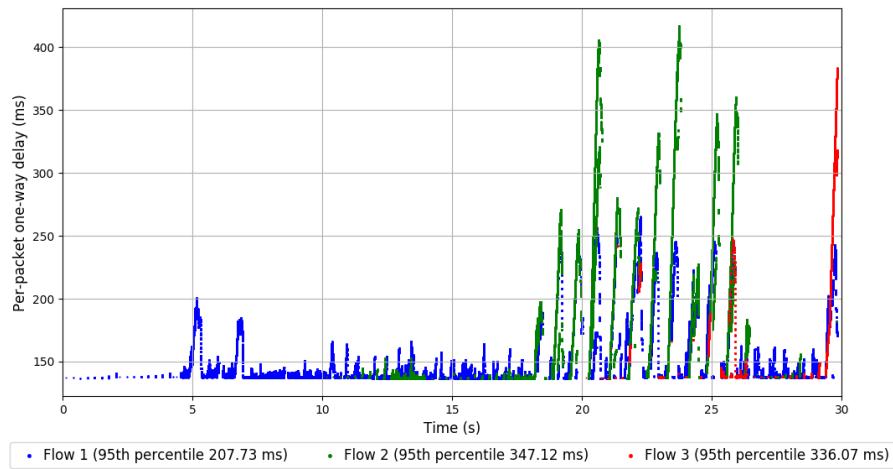
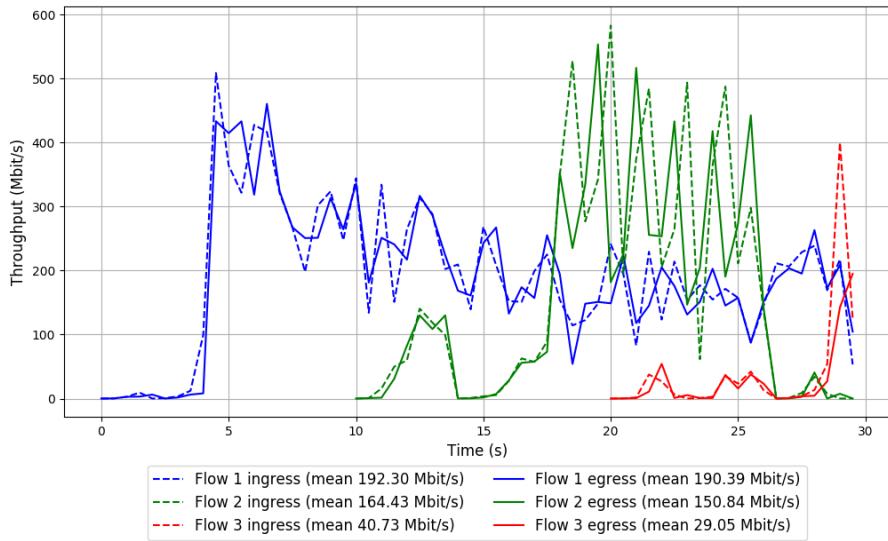
Run 10: Statistics of Verus

Start at: 2017-12-21 09:49:53

End at: 2017-12-21 09:50:23

```
# Below is generated by plot.py at 2017-12-21 11:45:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 299.65 Mbit/s
95th percentile per-packet one-way delay: 297.324 ms
Loss rate: 4.60%
-- Flow 1:
Average throughput: 190.39 Mbit/s
95th percentile per-packet one-way delay: 207.726 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 150.84 Mbit/s
95th percentile per-packet one-way delay: 347.118 ms
Loss rate: 8.05%
-- Flow 3:
Average throughput: 29.05 Mbit/s
95th percentile per-packet one-way delay: 336.071 ms
Loss rate: 28.69%
```

Run 10: Report of Verus — Data Link



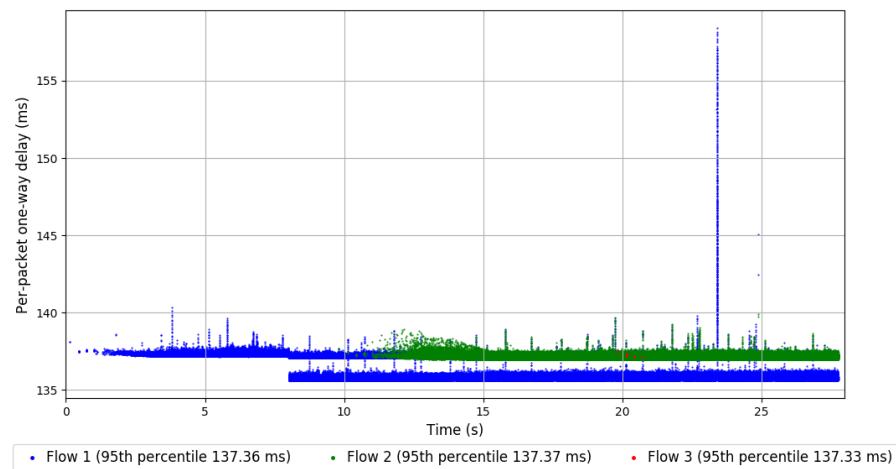
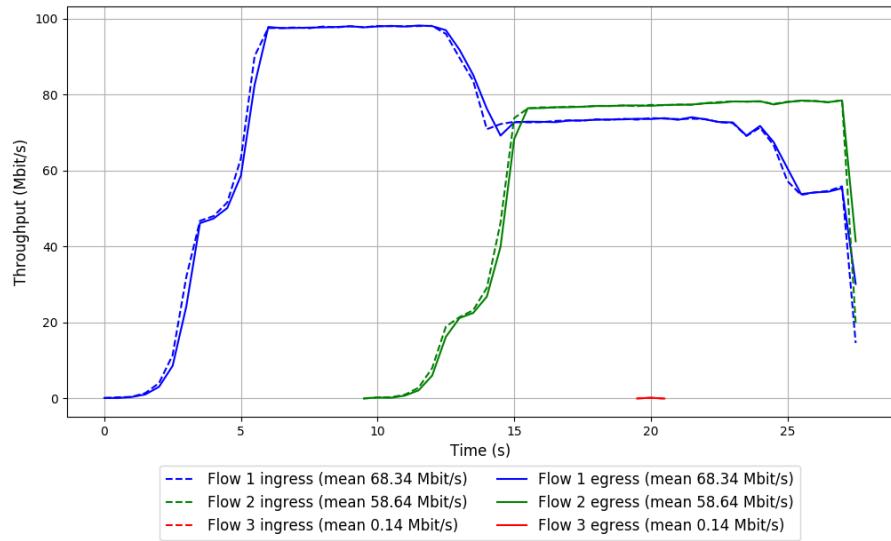
Run 1: Statistics of Copa

Start at: 2017-12-21 07:39:14

End at: 2017-12-21 07:39:44

```
# Below is generated by plot.py at 2017-12-21 11:45:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 106.44 Mbit/s
95th percentile per-packet one-way delay: 137.365 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 68.34 Mbit/s
95th percentile per-packet one-way delay: 137.362 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 58.64 Mbit/s
95th percentile per-packet one-way delay: 137.369 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 137.334 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



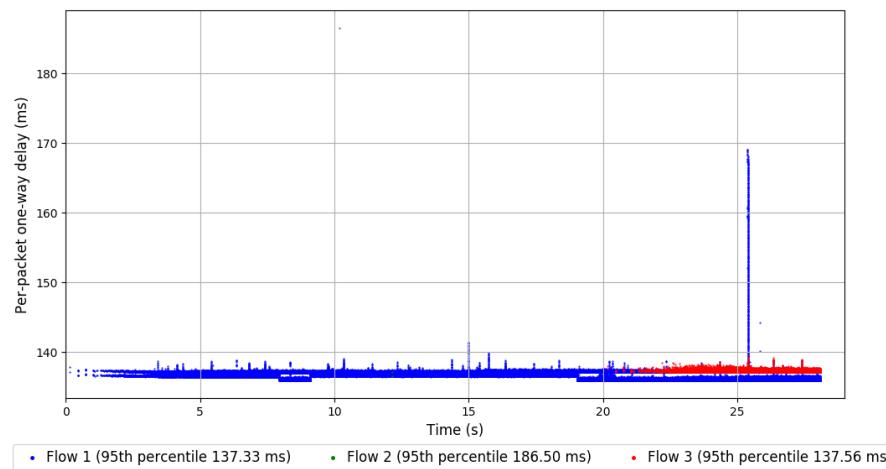
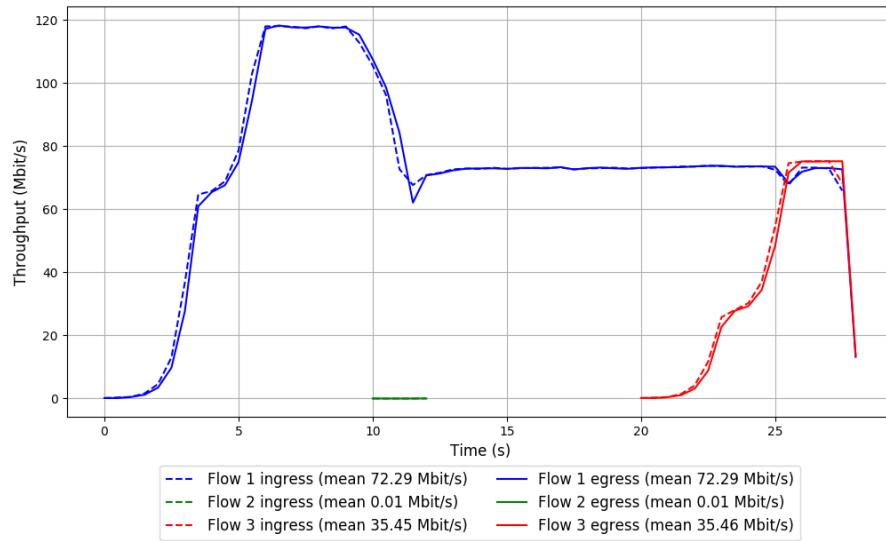
Run 2: Statistics of Copa

Start at: 2017-12-21 07:55:07

End at: 2017-12-21 07:55:37

```
# Below is generated by plot.py at 2017-12-21 11:45:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.35 Mbit/s
95th percentile per-packet one-way delay: 137.383 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 72.29 Mbit/s
95th percentile per-packet one-way delay: 137.329 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 186.499 ms
Loss rate: 46.17%
-- Flow 3:
Average throughput: 35.46 Mbit/s
95th percentile per-packet one-way delay: 137.563 ms
Loss rate: 0.00%
```

Run 2: Report of Copa — Data Link



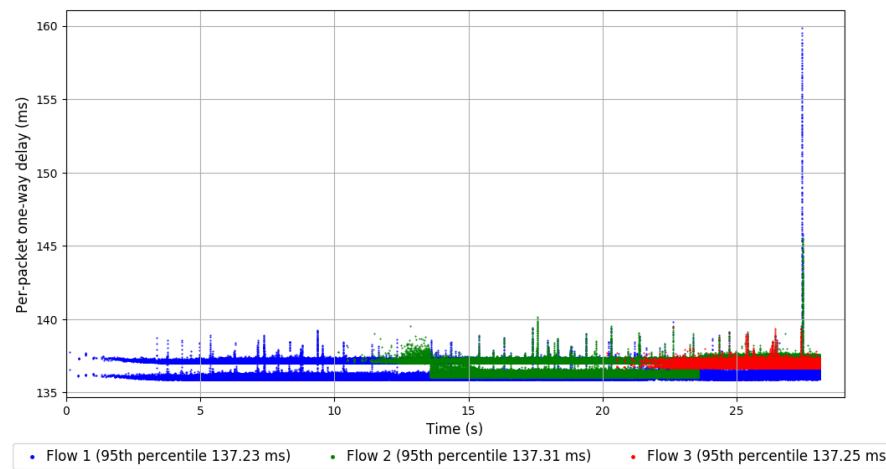
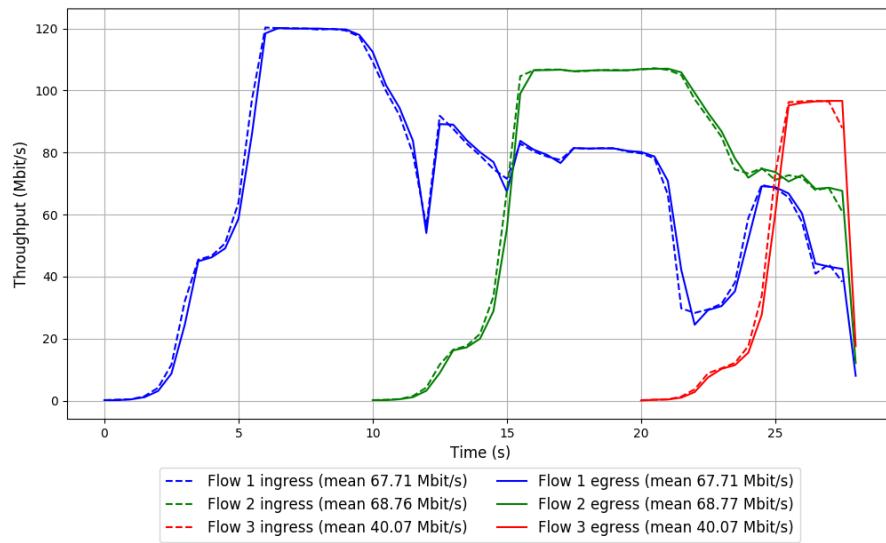
Run 3: Statistics of Copa

Start at: 2017-12-21 08:11:19

End at: 2017-12-21 08:11:49

```
# Below is generated by plot.py at 2017-12-21 11:45:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 123.21 Mbit/s
95th percentile per-packet one-way delay: 137.259 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 67.71 Mbit/s
95th percentile per-packet one-way delay: 137.231 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 68.77 Mbit/s
95th percentile per-packet one-way delay: 137.313 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 40.07 Mbit/s
95th percentile per-packet one-way delay: 137.251 ms
Loss rate: 0.00%
```

Run 3: Report of Copa — Data Link



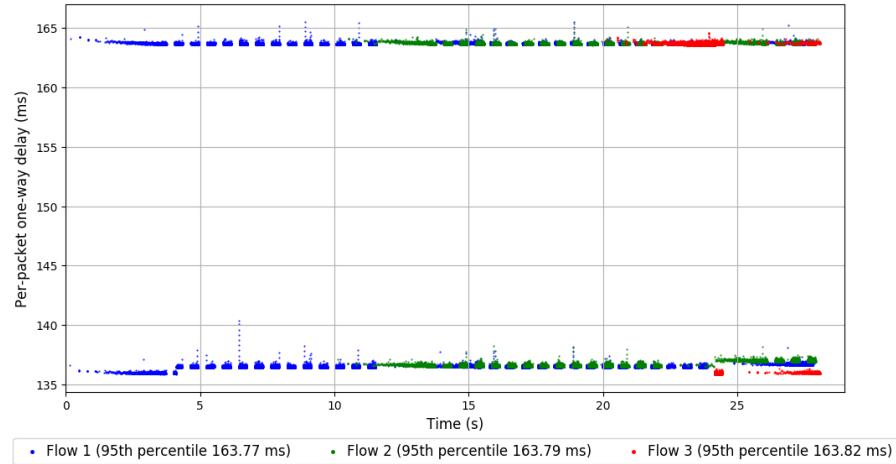
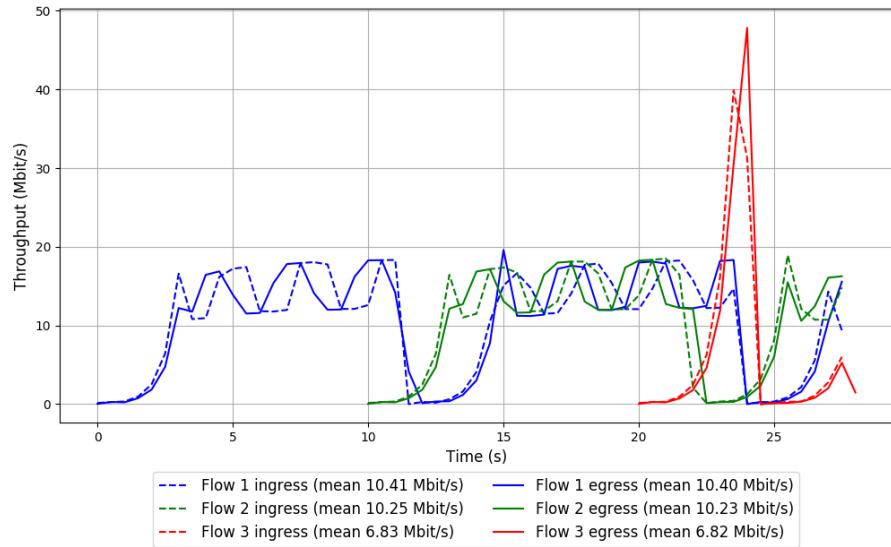
Run 4: Statistics of Copa

Start at: 2017-12-21 08:27:09

End at: 2017-12-21 08:27:39

```
# Below is generated by plot.py at 2017-12-21 11:45:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.78 Mbit/s
95th percentile per-packet one-way delay: 163.783 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 10.40 Mbit/s
95th percentile per-packet one-way delay: 163.769 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 10.23 Mbit/s
95th percentile per-packet one-way delay: 163.791 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.82 Mbit/s
95th percentile per-packet one-way delay: 163.824 ms
Loss rate: 0.44%
```

Run 4: Report of Copa — Data Link



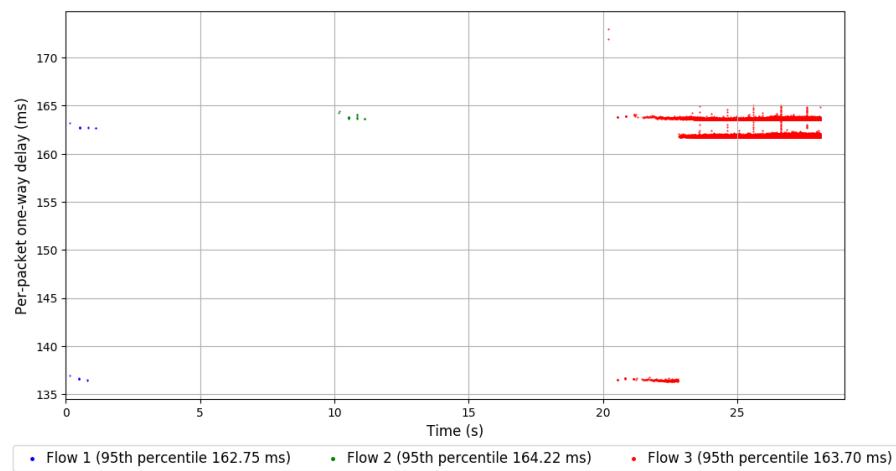
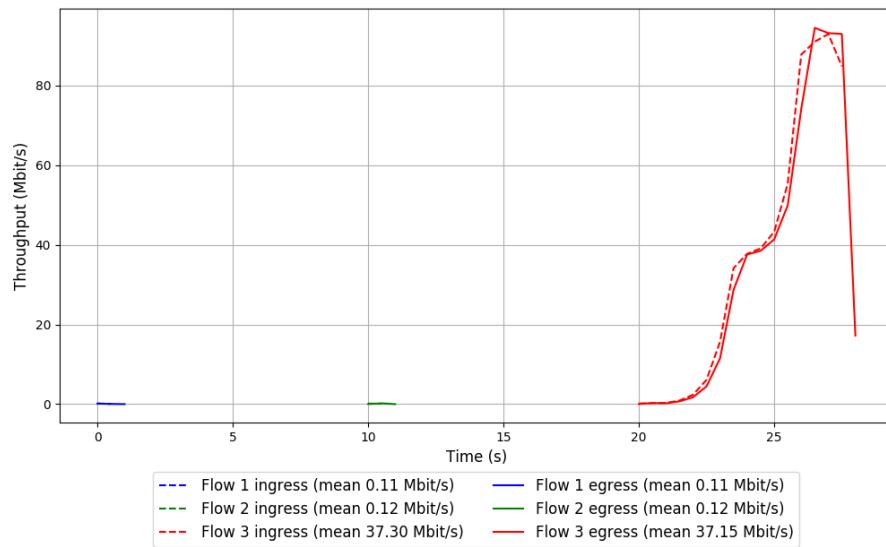
Run 5: Statistics of Copa

Start at: 2017-12-21 08:42:40

End at: 2017-12-21 08:43:10

```
# Below is generated by plot.py at 2017-12-21 11:45:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.51 Mbit/s
95th percentile per-packet one-way delay: 163.699 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 162.752 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 164.223 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 37.15 Mbit/s
95th percentile per-packet one-way delay: 163.699 ms
Loss rate: 0.84%
```

Run 5: Report of Copa — Data Link



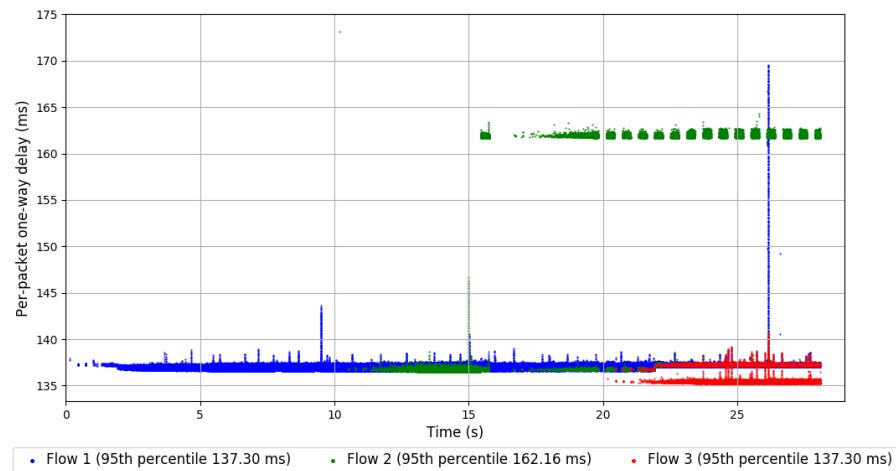
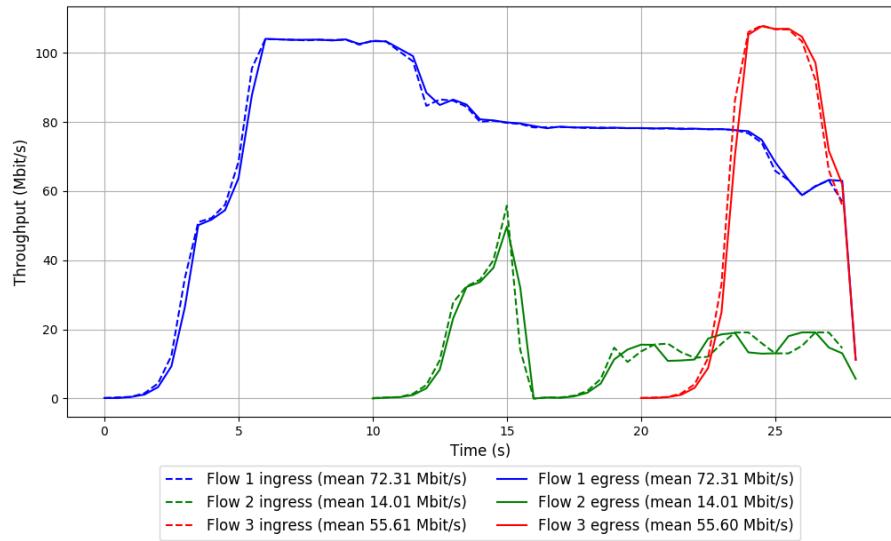
Run 6: Statistics of Copa

Start at: 2017-12-21 08:58:21

End at: 2017-12-21 08:58:51

```
# Below is generated by plot.py at 2017-12-21 11:45:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.09 Mbit/s
95th percentile per-packet one-way delay: 137.356 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 72.31 Mbit/s
95th percentile per-packet one-way delay: 137.298 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 14.01 Mbit/s
95th percentile per-packet one-way delay: 162.161 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 55.60 Mbit/s
95th percentile per-packet one-way delay: 137.303 ms
Loss rate: 0.00%
```

Run 6: Report of Copa — Data Link



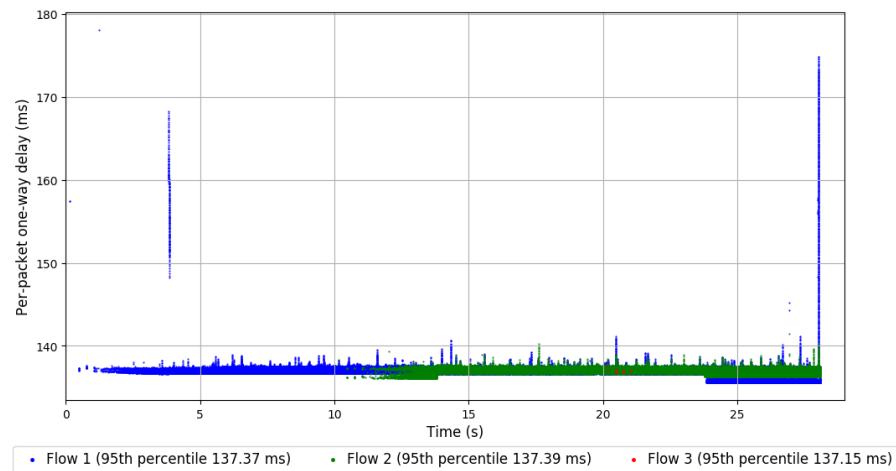
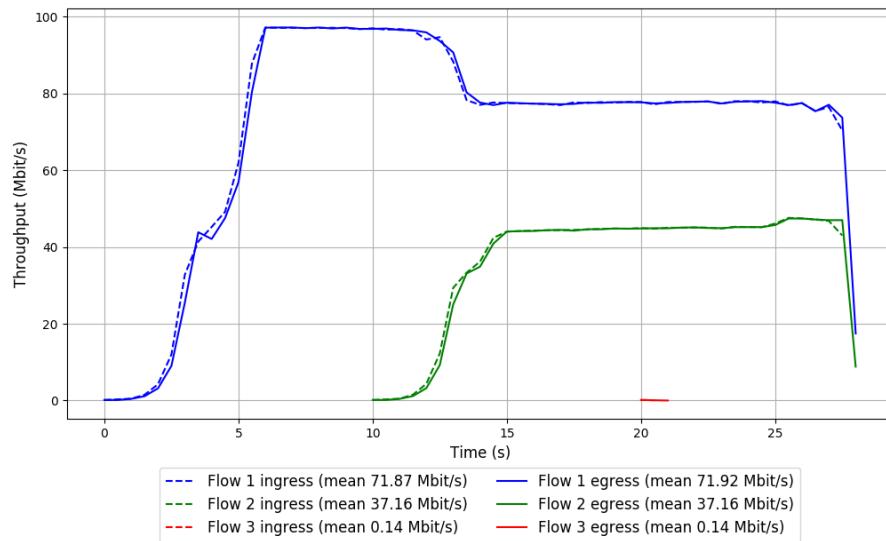
Run 7: Statistics of Copa

Start at: 2017-12-21 09:14:09

End at: 2017-12-21 09:14:39

```
# Below is generated by plot.py at 2017-12-21 11:45:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.80 Mbit/s
95th percentile per-packet one-way delay: 137.370 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 71.92 Mbit/s
95th percentile per-packet one-way delay: 137.365 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.16 Mbit/s
95th percentile per-packet one-way delay: 137.390 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 137.145 ms
Loss rate: 0.00%
```

Run 7: Report of Copa — Data Link



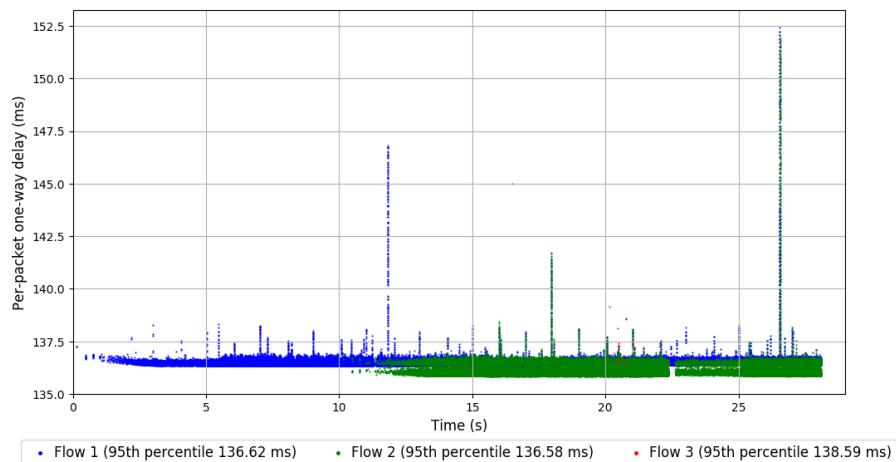
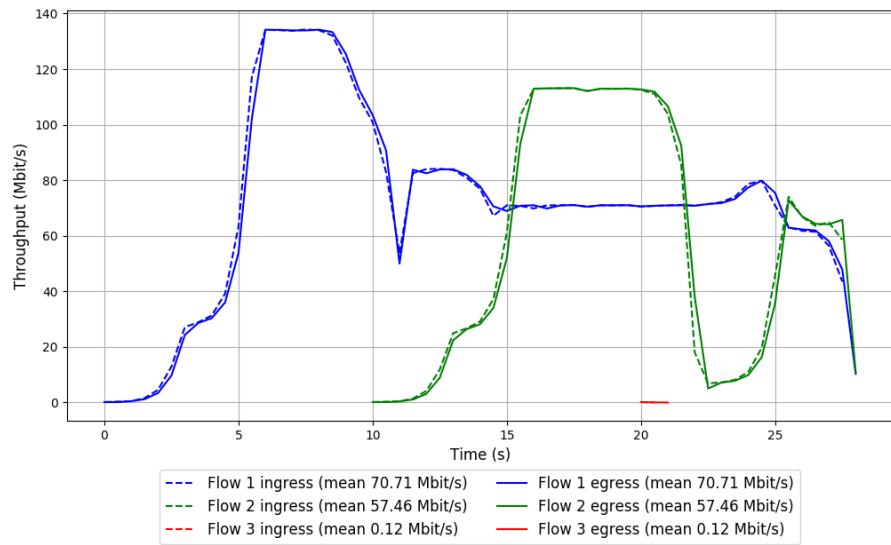
Run 8: Statistics of Copa

Start at: 2017-12-21 09:30:34

End at: 2017-12-21 09:31:04

```
# Below is generated by plot.py at 2017-12-21 11:47:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 107.59 Mbit/s
95th percentile per-packet one-way delay: 136.612 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 70.71 Mbit/s
95th percentile per-packet one-way delay: 136.624 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 57.46 Mbit/s
95th percentile per-packet one-way delay: 136.577 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 138.592 ms
Loss rate: 0.00%
```

Run 8: Report of Copa — Data Link



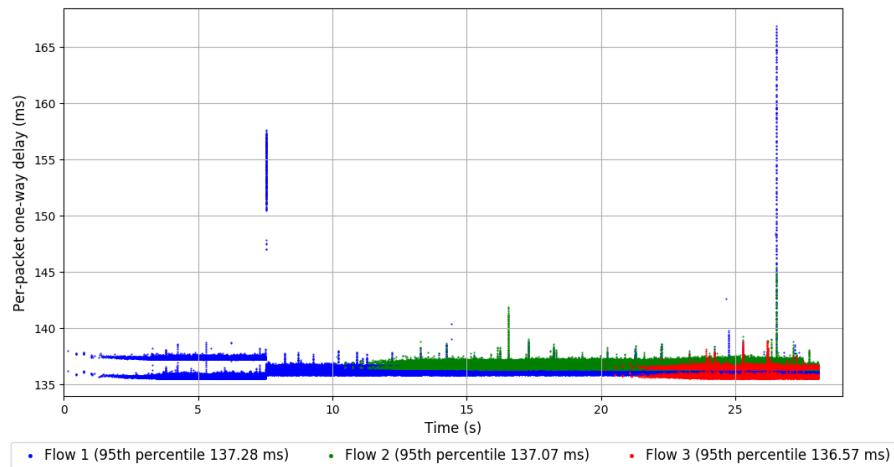
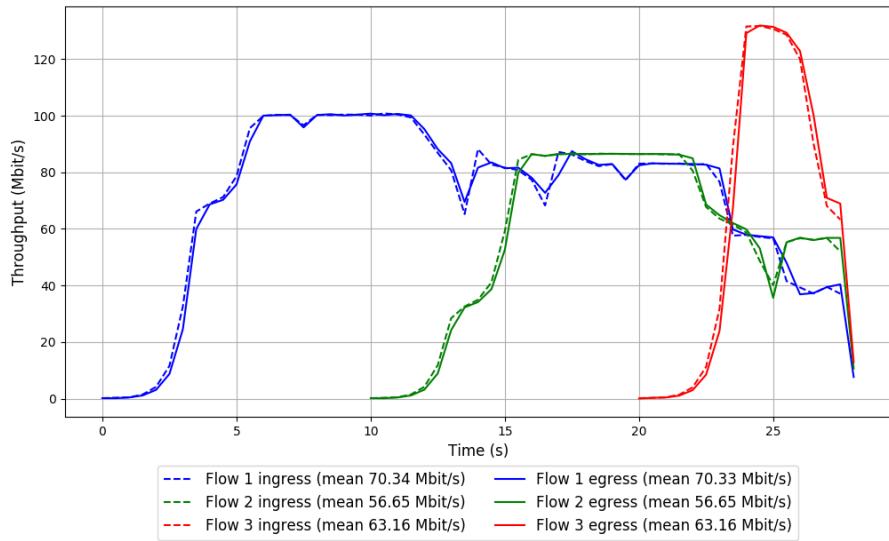
Run 9: Statistics of Copa

Start at: 2017-12-21 09:46:45

End at: 2017-12-21 09:47:15

```
# Below is generated by plot.py at 2017-12-21 11:47:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 124.62 Mbit/s
95th percentile per-packet one-way delay: 137.239 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 70.33 Mbit/s
95th percentile per-packet one-way delay: 137.283 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 56.65 Mbit/s
95th percentile per-packet one-way delay: 137.073 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 63.16 Mbit/s
95th percentile per-packet one-way delay: 136.572 ms
Loss rate: 0.00%
```

Run 9: Report of Copa — Data Link



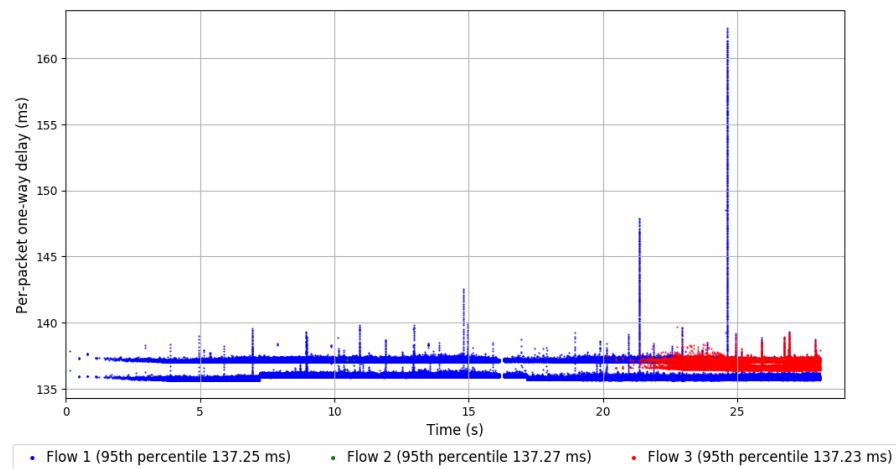
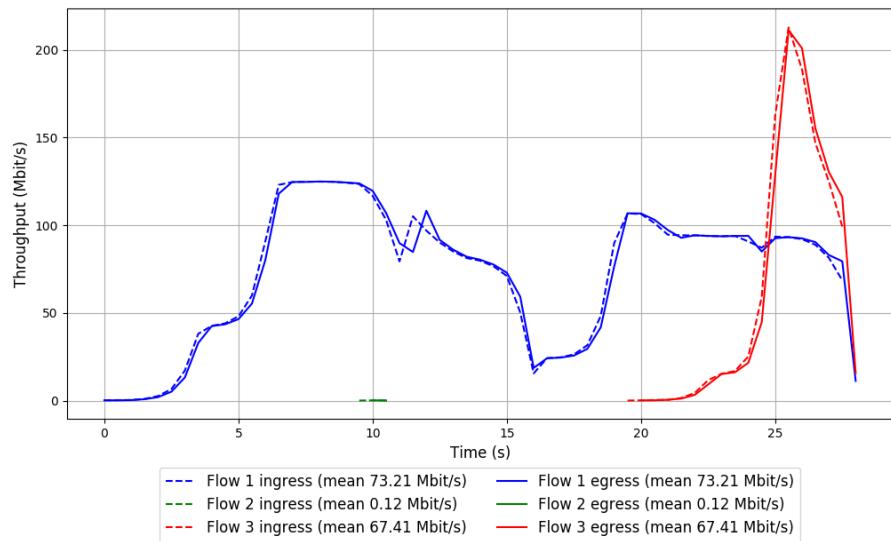
Run 10: Statistics of Copa

Start at: 2017-12-21 10:02:56

End at: 2017-12-21 10:03:26

```
# Below is generated by plot.py at 2017-12-21 11:47:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.36 Mbit/s
95th percentile per-packet one-way delay: 137.241 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 73.21 Mbit/s
95th percentile per-packet one-way delay: 137.245 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 137.273 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 67.41 Mbit/s
95th percentile per-packet one-way delay: 137.228 ms
Loss rate: 0.00%
```

Run 10: Report of Copa — Data Link

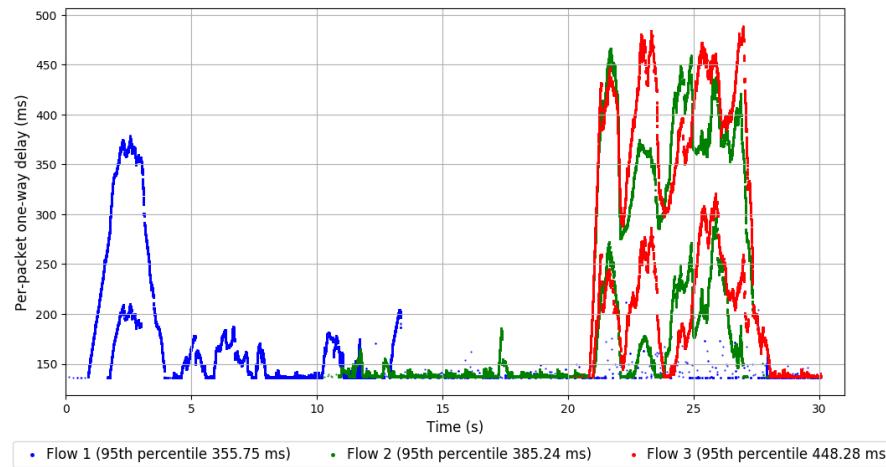
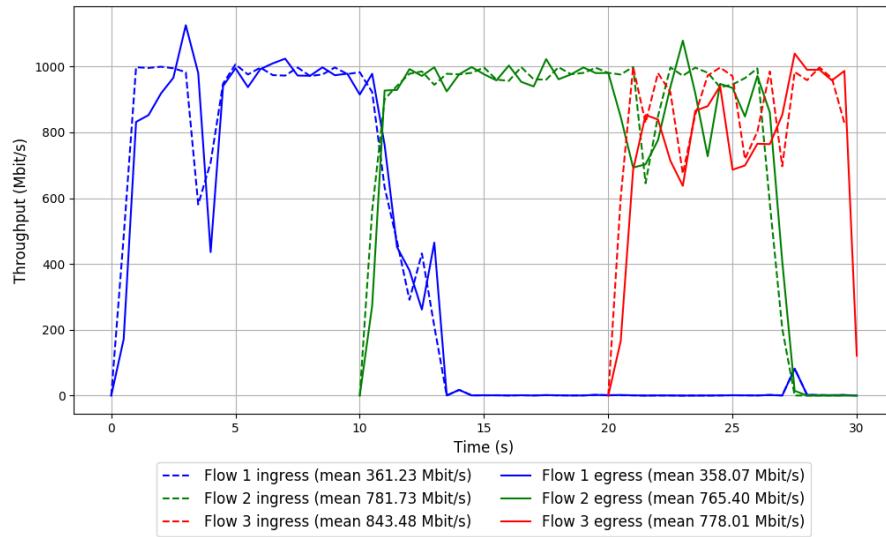


```
Run 1: Statistics of FillP

Start at: 2017-12-21 07:32:39
End at: 2017-12-21 07:33:09

# Below is generated by plot.py at 2017-12-21 12:05:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1123.42 Mbit/s
95th percentile per-packet one-way delay: 398.389 ms
Loss rate: 3.09%
-- Flow 1:
Average throughput: 358.07 Mbit/s
95th percentile per-packet one-way delay: 355.747 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 765.40 Mbit/s
95th percentile per-packet one-way delay: 385.242 ms
Loss rate: 2.10%
-- Flow 3:
Average throughput: 778.01 Mbit/s
95th percentile per-packet one-way delay: 448.276 ms
Loss rate: 7.77%
```

Run 1: Report of FillP — Data Link



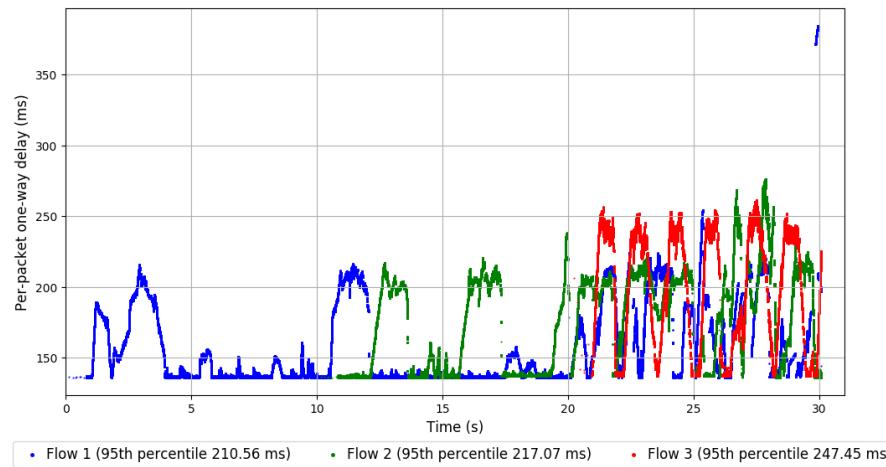
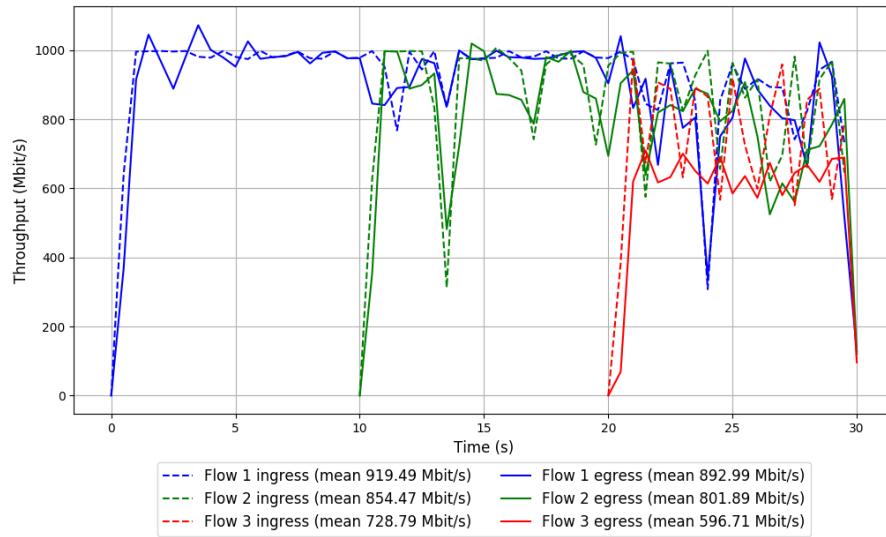
Run 2: Statistics of FillP

Start at: 2017-12-21 07:47:38

End at: 2017-12-21 07:48:08

```
# Below is generated by plot.py at 2017-12-21 12:15:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1622.74 Mbit/s
95th percentile per-packet one-way delay: 232.988 ms
Loss rate: 6.15%
-- Flow 1:
Average throughput: 892.99 Mbit/s
95th percentile per-packet one-way delay: 210.564 ms
Loss rate: 2.86%
-- Flow 2:
Average throughput: 801.89 Mbit/s
95th percentile per-packet one-way delay: 217.070 ms
Loss rate: 6.15%
-- Flow 3:
Average throughput: 596.71 Mbit/s
95th percentile per-packet one-way delay: 247.450 ms
Loss rate: 18.69%
```

Run 2: Report of FillP — Data Link



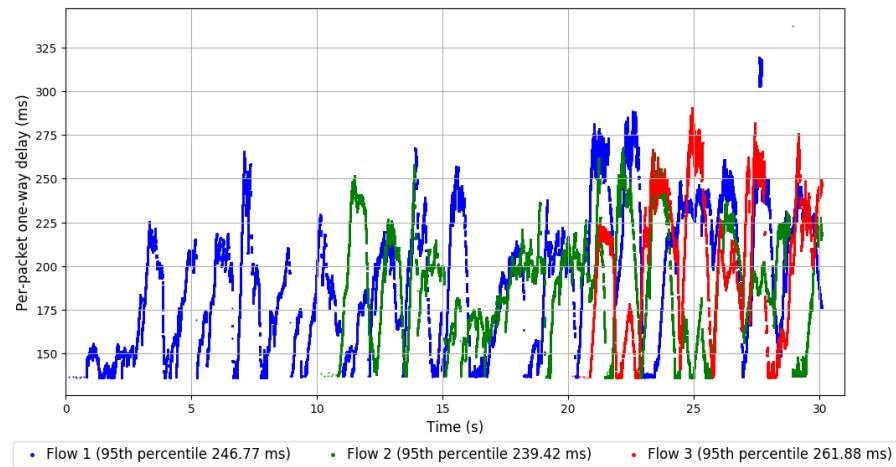
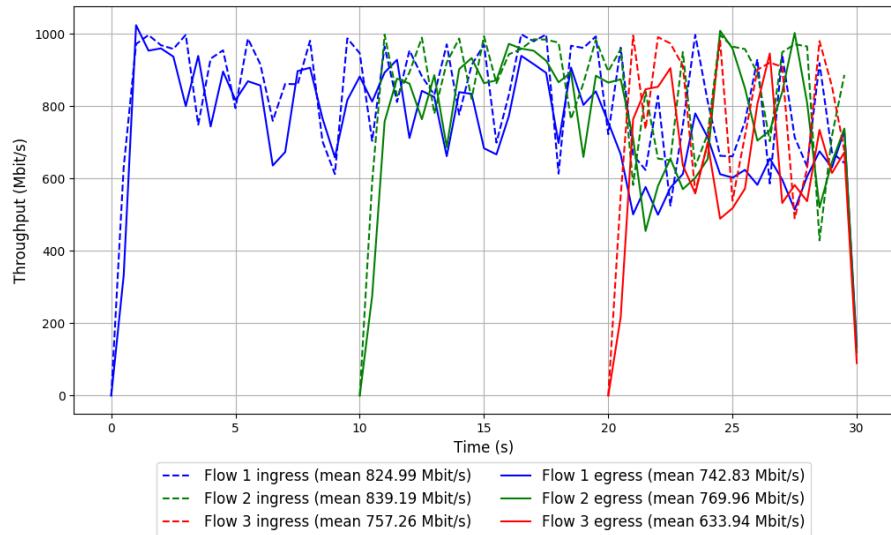
Run 3: Statistics of FillP

Start at: 2017-12-21 08:03:39

End at: 2017-12-21 08:04:09

```
# Below is generated by plot.py at 2017-12-21 12:15:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1465.38 Mbit/s
95th percentile per-packet one-way delay: 247.967 ms
Loss rate: 10.34%
-- Flow 1:
Average throughput: 742.83 Mbit/s
95th percentile per-packet one-way delay: 246.773 ms
Loss rate: 9.95%
-- Flow 2:
Average throughput: 769.96 Mbit/s
95th percentile per-packet one-way delay: 239.417 ms
Loss rate: 8.24%
-- Flow 3:
Average throughput: 633.94 Mbit/s
95th percentile per-packet one-way delay: 261.876 ms
Loss rate: 16.26%
```

Run 3: Report of FillP — Data Link



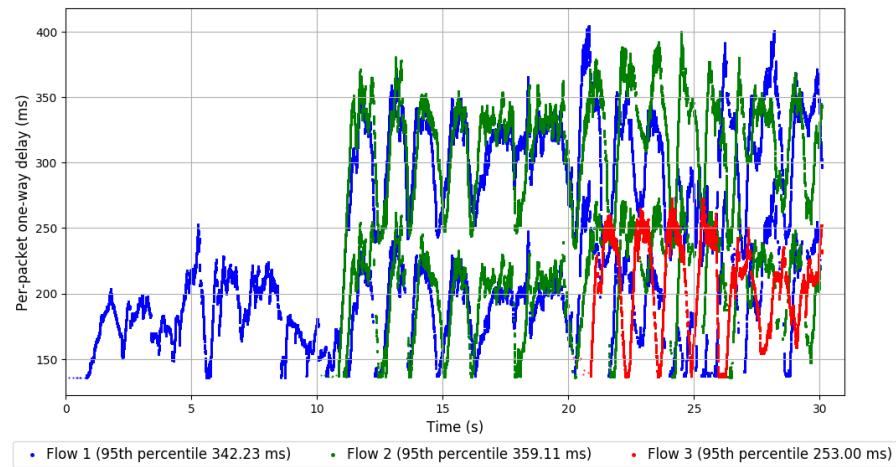
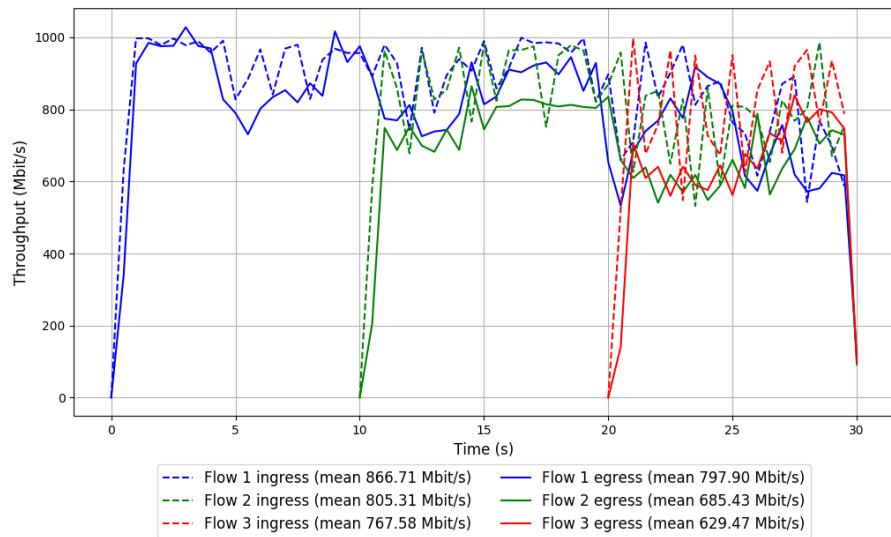
Run 4: Statistics of FillP

Start at: 2017-12-21 08:19:56

End at: 2017-12-21 08:20:26

```
# Below is generated by plot.py at 2017-12-21 12:15:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1462.35 Mbit/s
95th percentile per-packet one-way delay: 347.983 ms
Loss rate: 11.74%
-- Flow 1:
Average throughput: 797.90 Mbit/s
95th percentile per-packet one-way delay: 342.230 ms
Loss rate: 7.93%
-- Flow 2:
Average throughput: 685.43 Mbit/s
95th percentile per-packet one-way delay: 359.110 ms
Loss rate: 14.88%
-- Flow 3:
Average throughput: 629.47 Mbit/s
95th percentile per-packet one-way delay: 252.998 ms
Loss rate: 18.10%
```

Run 4: Report of FillP — Data Link



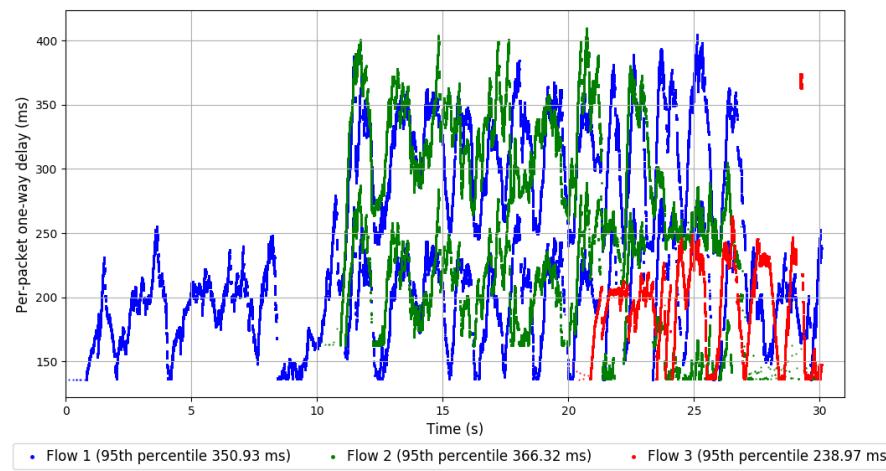
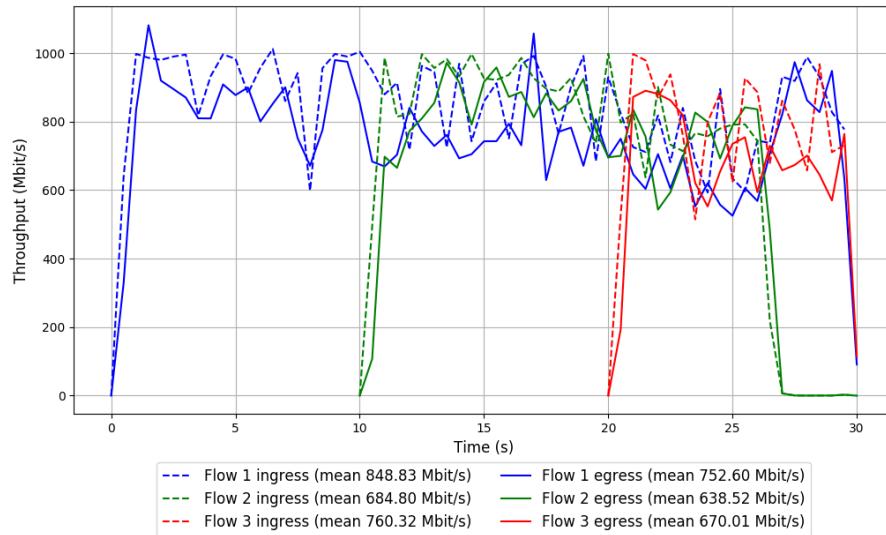
Run 5: Statistics of FillP

Start at: 2017-12-21 08:35:27

End at: 2017-12-21 08:35:57

```
# Below is generated by plot.py at 2017-12-21 12:15:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1398.43 Mbit/s
95th percentile per-packet one-way delay: 354.381 ms
Loss rate: 10.26%
-- Flow 1:
Average throughput: 752.60 Mbit/s
95th percentile per-packet one-way delay: 350.933 ms
Loss rate: 11.33%
-- Flow 2:
Average throughput: 638.52 Mbit/s
95th percentile per-packet one-way delay: 366.319 ms
Loss rate: 7.33%
-- Flow 3:
Average throughput: 670.01 Mbit/s
95th percentile per-packet one-way delay: 238.971 ms
Loss rate: 11.97%
```

Run 5: Report of FillP — Data Link



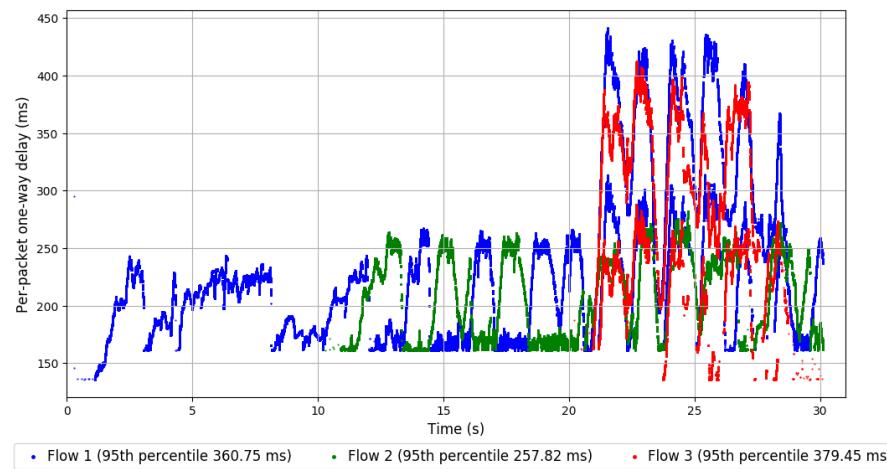
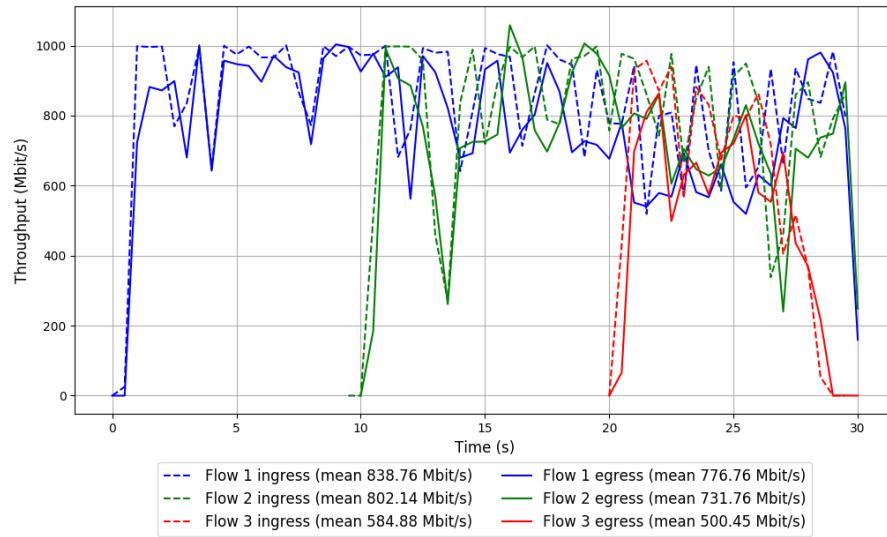
Run 6: Statistics of FillP

Start at: 2017-12-21 08:51:02

End at: 2017-12-21 08:51:32

```
# Below is generated by plot.py at 2017-12-21 12:15:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1431.89 Mbit/s
95th percentile per-packet one-way delay: 357.903 ms
Loss rate: 9.01%
-- Flow 1:
Average throughput: 776.76 Mbit/s
95th percentile per-packet one-way delay: 360.751 ms
Loss rate: 7.80%
-- Flow 2:
Average throughput: 731.76 Mbit/s
95th percentile per-packet one-way delay: 257.821 ms
Loss rate: 8.77%
-- Flow 3:
Average throughput: 500.45 Mbit/s
95th percentile per-packet one-way delay: 379.452 ms
Loss rate: 14.88%
```

Run 6: Report of FillP — Data Link



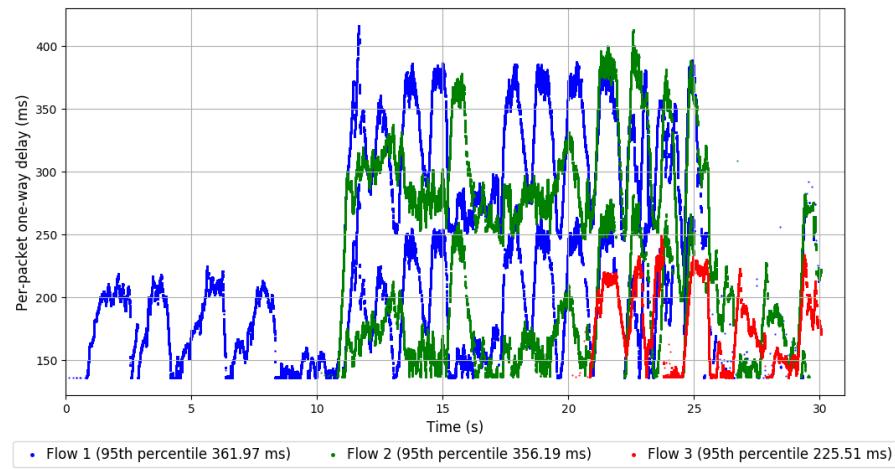
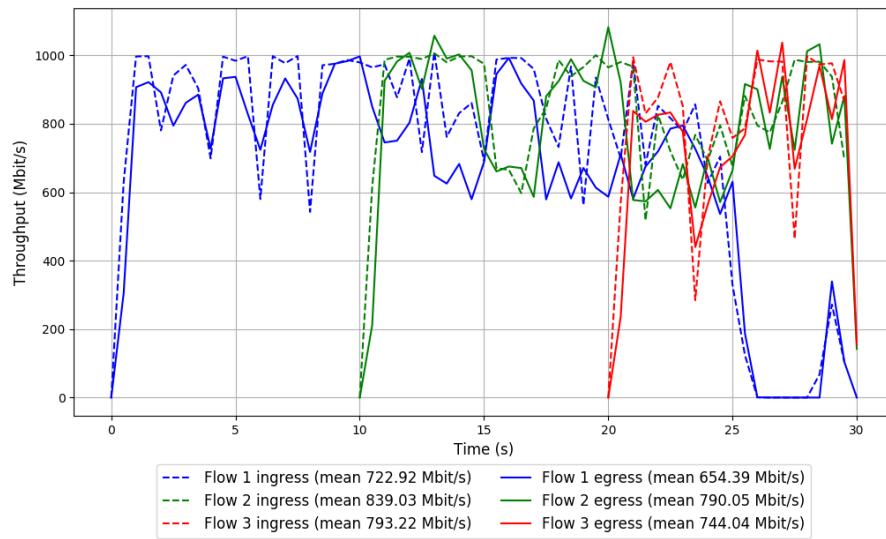
Run 7: Statistics of FillP

Start at: 2017-12-21 09:06:40

End at: 2017-12-21 09:07:10

```
# Below is generated by plot.py at 2017-12-21 12:15:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1425.75 Mbit/s
95th percentile per-packet one-way delay: 354.332 ms
Loss rate: 7.62%
-- Flow 1:
Average throughput: 654.39 Mbit/s
95th percentile per-packet one-way delay: 361.967 ms
Loss rate: 9.51%
-- Flow 2:
Average throughput: 790.05 Mbit/s
95th percentile per-packet one-way delay: 356.188 ms
Loss rate: 5.84%
-- Flow 3:
Average throughput: 744.04 Mbit/s
95th percentile per-packet one-way delay: 225.512 ms
Loss rate: 6.19%
```

Run 7: Report of FillP — Data Link



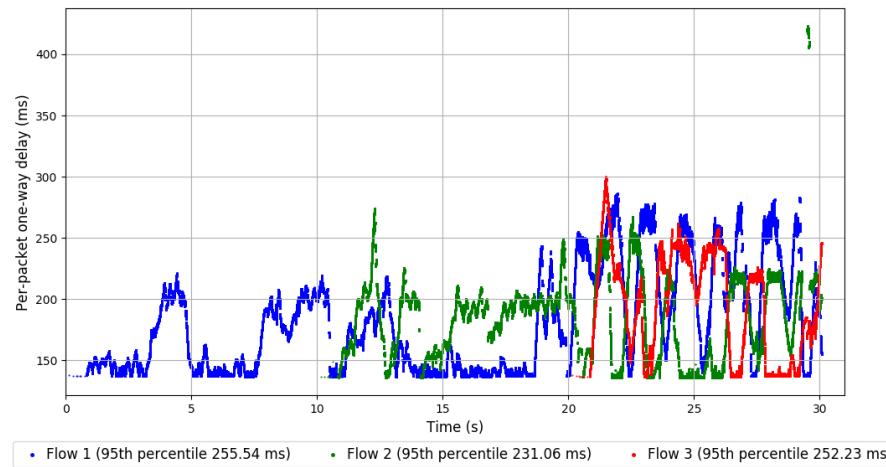
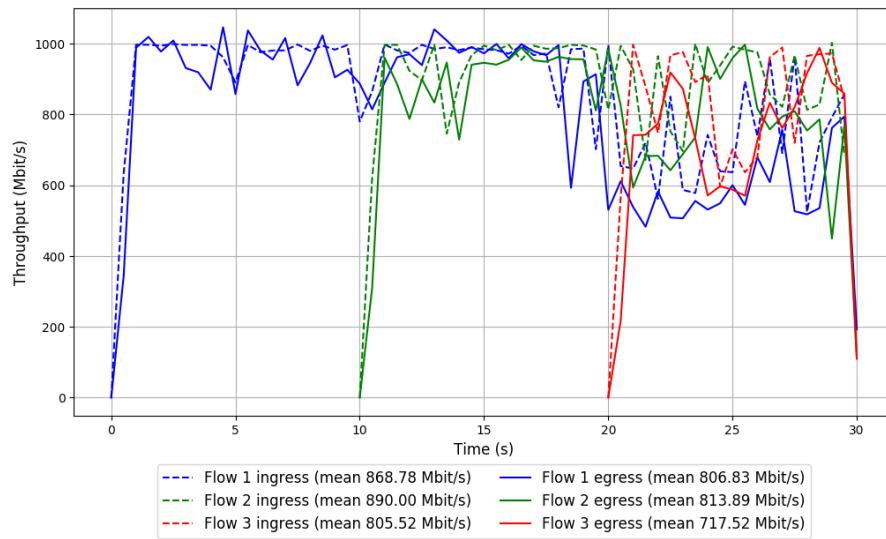
Run 8: Statistics of FillP

Start at: 2017-12-21 09:22:58

End at: 2017-12-21 09:23:28

```
# Below is generated by plot.py at 2017-12-21 12:17:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1586.50 Mbit/s
95th percentile per-packet one-way delay: 247.802 ms
Loss rate: 8.20%
-- Flow 1:
Average throughput: 806.83 Mbit/s
95th percentile per-packet one-way delay: 255.538 ms
Loss rate: 7.13%
-- Flow 2:
Average throughput: 813.89 Mbit/s
95th percentile per-packet one-way delay: 231.060 ms
Loss rate: 8.55%
-- Flow 3:
Average throughput: 717.52 Mbit/s
95th percentile per-packet one-way delay: 252.230 ms
Loss rate: 10.92%
```

Run 8: Report of FillP — Data Link



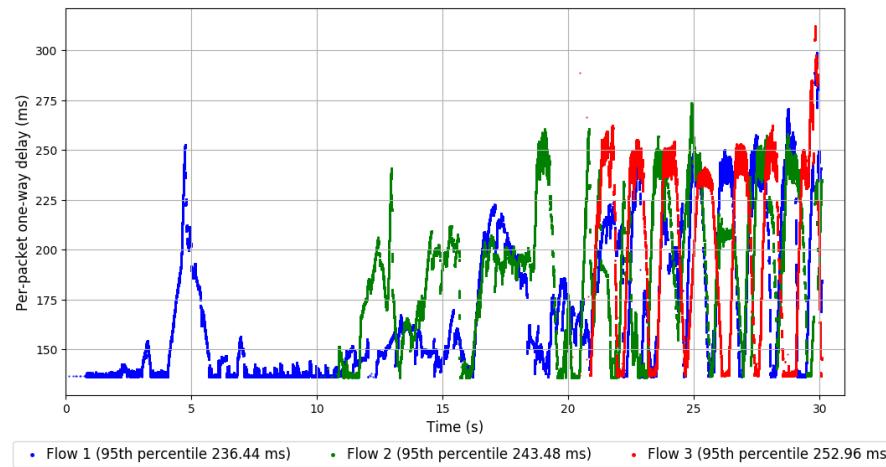
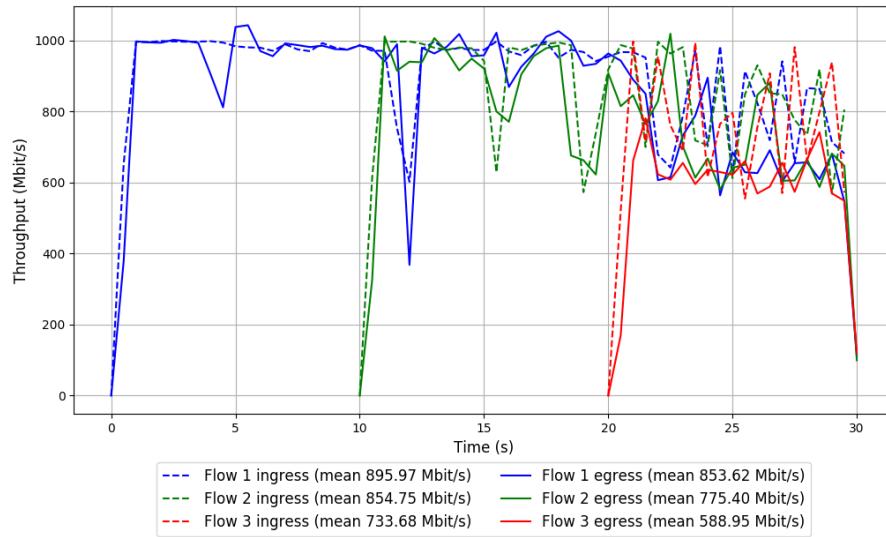
Run 9: Statistics of FillP

Start at: 2017-12-21 09:39:11

End at: 2017-12-21 09:39:41

```
# Below is generated by plot.py at 2017-12-21 12:22:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1564.76 Mbit/s
95th percentile per-packet one-way delay: 243.974 ms
Loss rate: 8.44%
-- Flow 1:
Average throughput: 853.62 Mbit/s
95th percentile per-packet one-way delay: 236.445 ms
Loss rate: 4.86%
-- Flow 2:
Average throughput: 775.40 Mbit/s
95th percentile per-packet one-way delay: 243.483 ms
Loss rate: 9.25%
-- Flow 3:
Average throughput: 588.95 Mbit/s
95th percentile per-packet one-way delay: 252.963 ms
Loss rate: 19.75%
```

Run 9: Report of FillP — Data Link



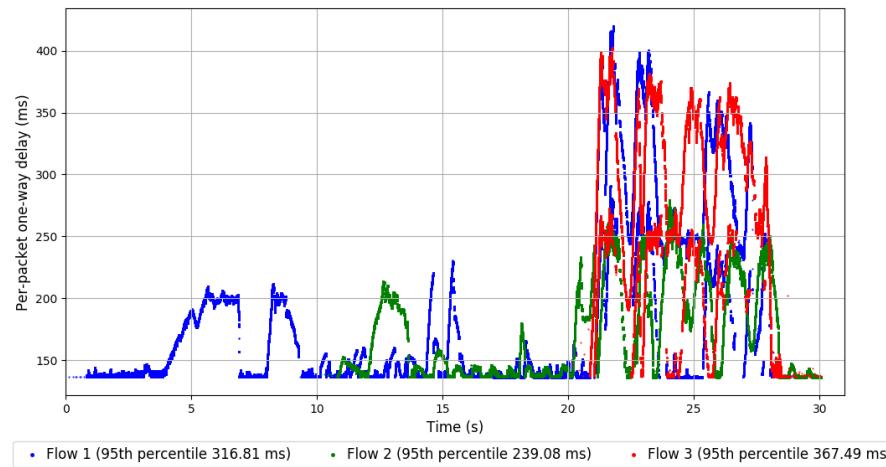
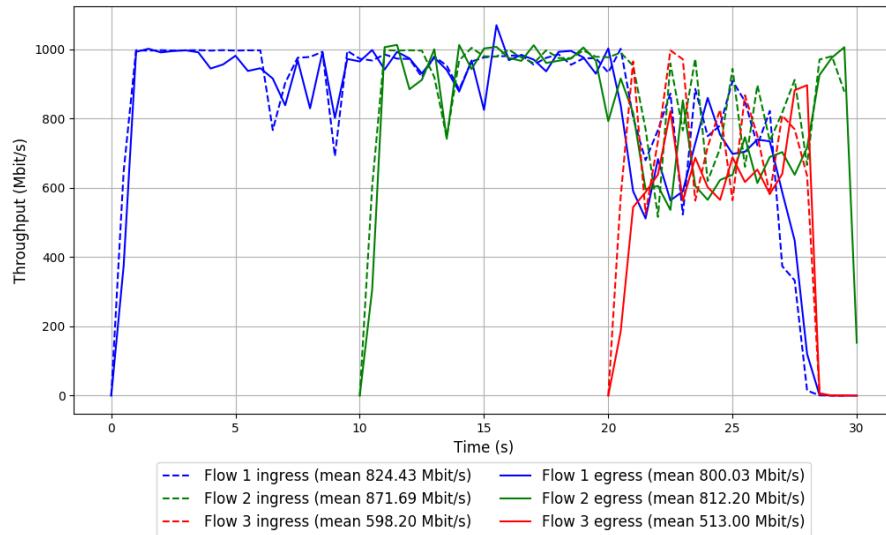
Run 10: Statistics of FillP

Start at: 2017-12-21 09:55:28

End at: 2017-12-21 09:55:58

```
# Below is generated by plot.py at 2017-12-21 12:23:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1508.59 Mbit/s
95th percentile per-packet one-way delay: 329.206 ms
Loss rate: 5.77%
-- Flow 1:
Average throughput: 800.03 Mbit/s
95th percentile per-packet one-way delay: 316.805 ms
Loss rate: 2.96%
-- Flow 2:
Average throughput: 812.20 Mbit/s
95th percentile per-packet one-way delay: 239.080 ms
Loss rate: 6.83%
-- Flow 3:
Average throughput: 513.00 Mbit/s
95th percentile per-packet one-way delay: 367.490 ms
Loss rate: 14.32%
```

Run 10: Report of FillP — Data Link



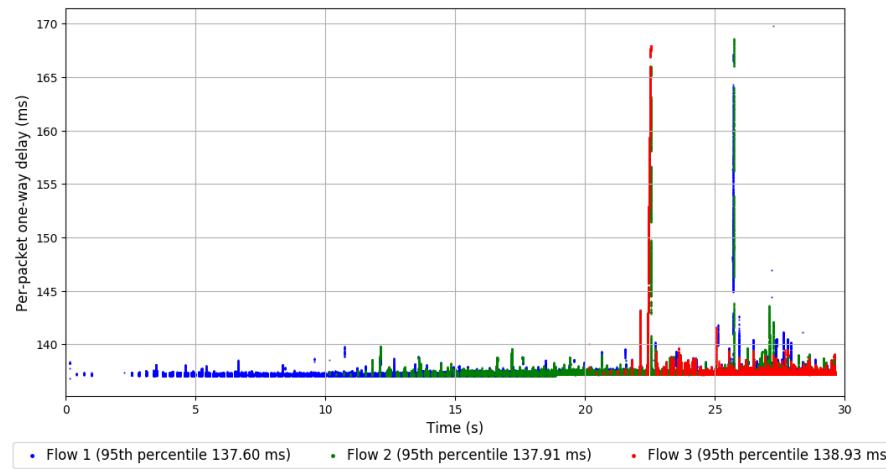
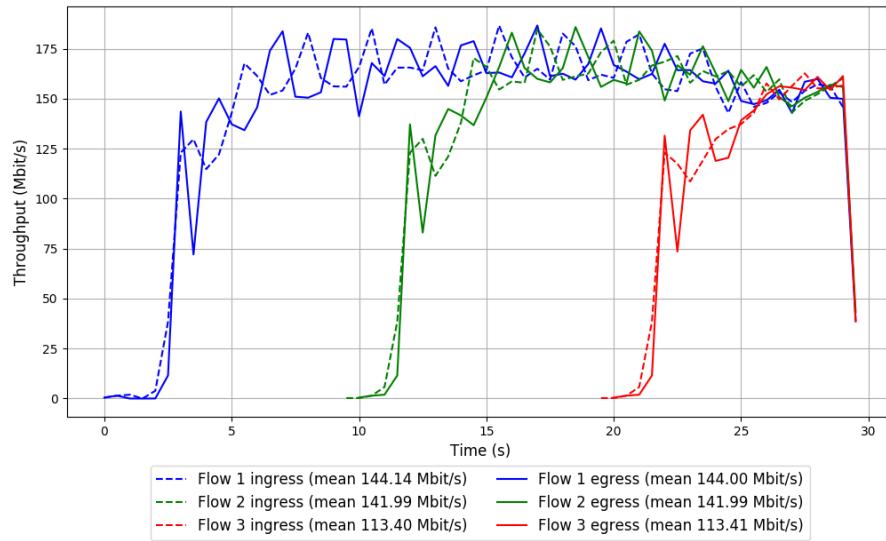
Run 1: Statistics of Indigo

Start at: 2017-12-21 07:40:15

End at: 2017-12-21 07:40:45

```
# Below is generated by plot.py at 2017-12-21 12:23:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 274.33 Mbit/s
95th percentile per-packet one-way delay: 137.790 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 144.00 Mbit/s
95th percentile per-packet one-way delay: 137.603 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 141.99 Mbit/s
95th percentile per-packet one-way delay: 137.905 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 113.41 Mbit/s
95th percentile per-packet one-way delay: 138.925 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link



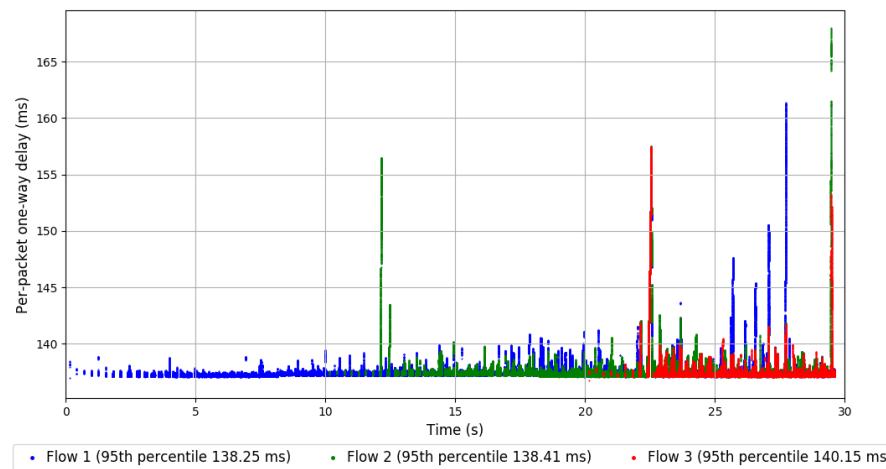
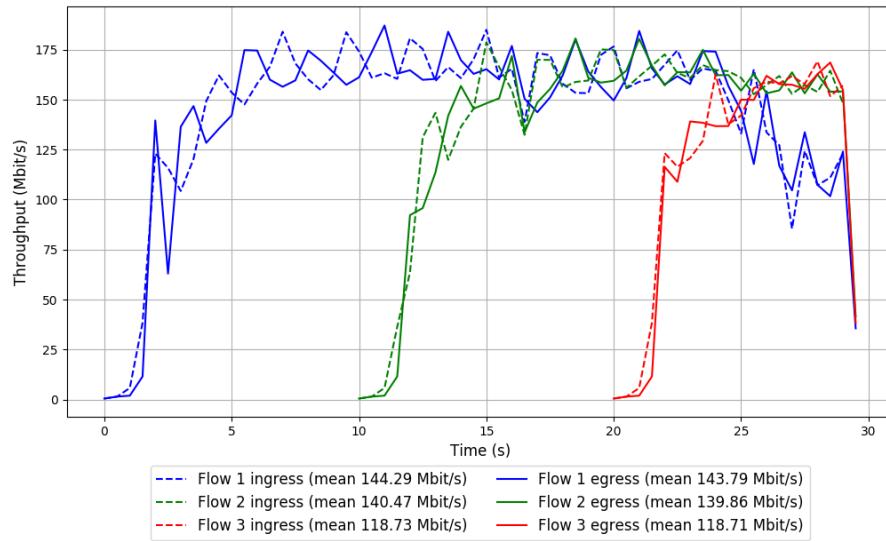
Run 2: Statistics of Indigo

Start at: 2017-12-21 07:56:06

End at: 2017-12-21 07:56:36

```
# Below is generated by plot.py at 2017-12-21 12:23:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 274.25 Mbit/s
95th percentile per-packet one-way delay: 138.501 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 143.79 Mbit/s
95th percentile per-packet one-way delay: 138.247 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 139.86 Mbit/s
95th percentile per-packet one-way delay: 138.414 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 118.71 Mbit/s
95th percentile per-packet one-way delay: 140.146 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo — Data Link



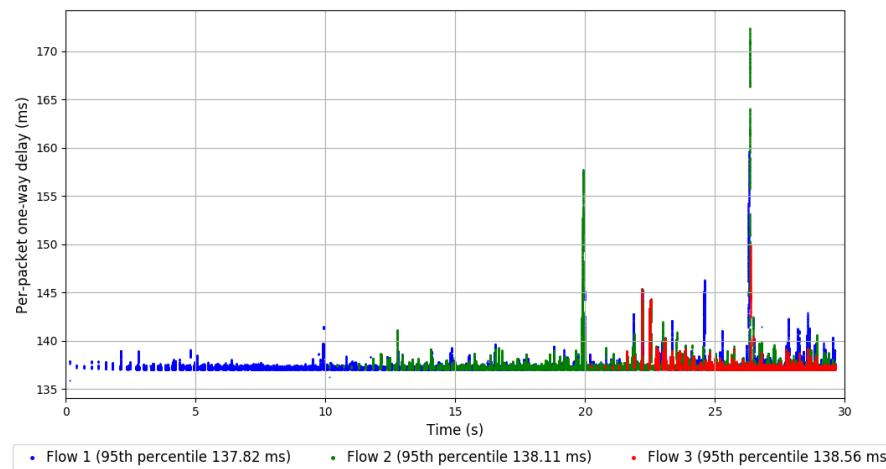
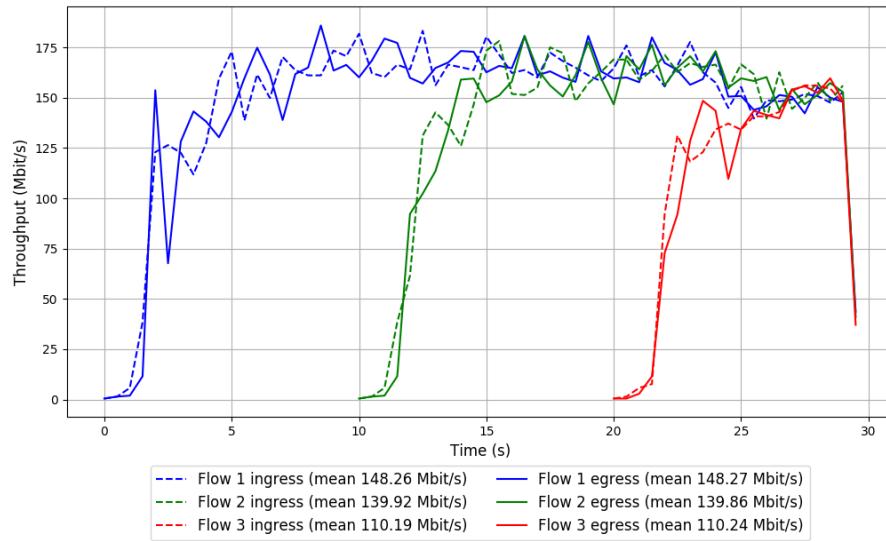
Run 3: Statistics of Indigo

Start at: 2017-12-21 08:12:23

End at: 2017-12-21 08:12:53

```
# Below is generated by plot.py at 2017-12-21 12:23:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 275.84 Mbit/s
95th percentile per-packet one-way delay: 138.016 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 148.27 Mbit/s
95th percentile per-packet one-way delay: 137.822 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 139.86 Mbit/s
95th percentile per-packet one-way delay: 138.108 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 110.24 Mbit/s
95th percentile per-packet one-way delay: 138.560 ms
Loss rate: 0.03%
```

Run 3: Report of Indigo — Data Link



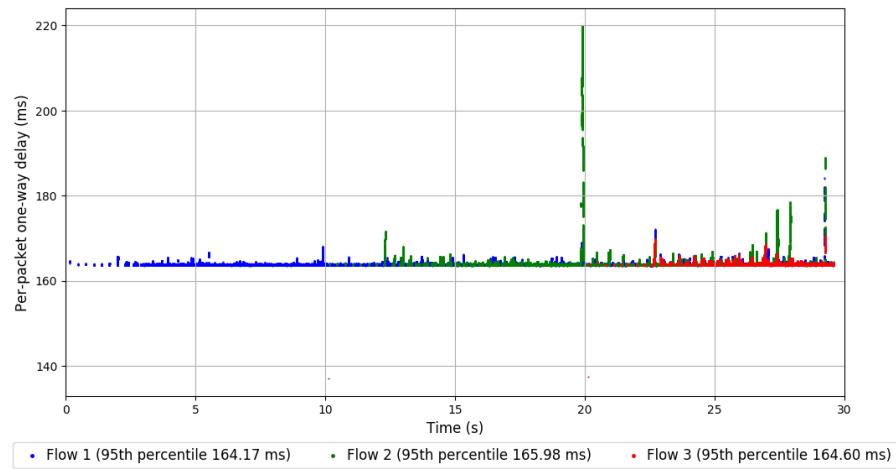
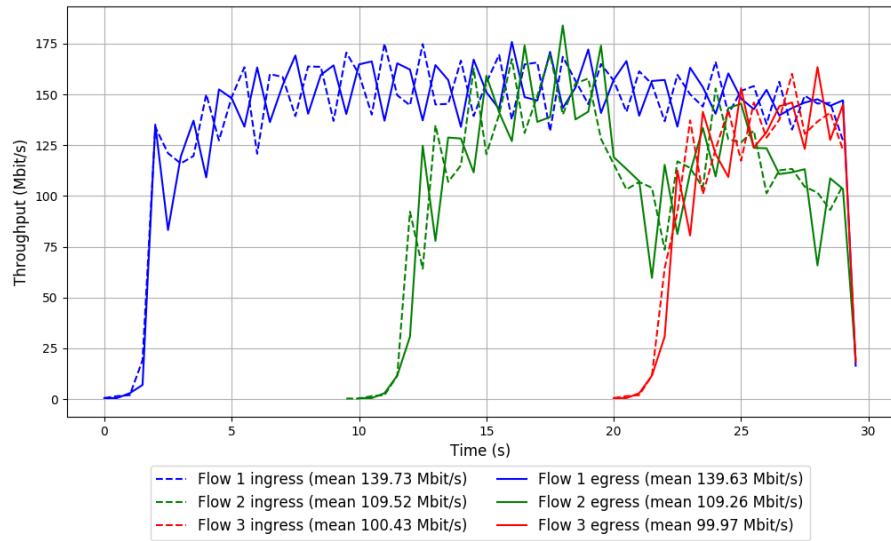
Run 4: Statistics of Indigo

Start at: 2017-12-21 08:28:00

End at: 2017-12-21 08:28:30

```
# Below is generated by plot.py at 2017-12-21 12:23:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 243.95 Mbit/s
95th percentile per-packet one-way delay: 164.669 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 139.63 Mbit/s
95th percentile per-packet one-way delay: 164.167 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 109.26 Mbit/s
95th percentile per-packet one-way delay: 165.982 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 99.97 Mbit/s
95th percentile per-packet one-way delay: 164.600 ms
Loss rate: 0.49%
```

Run 4: Report of Indigo — Data Link



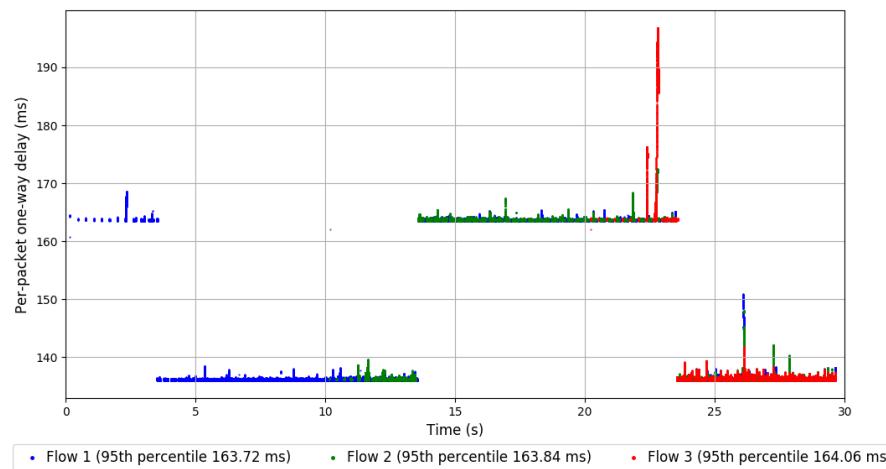
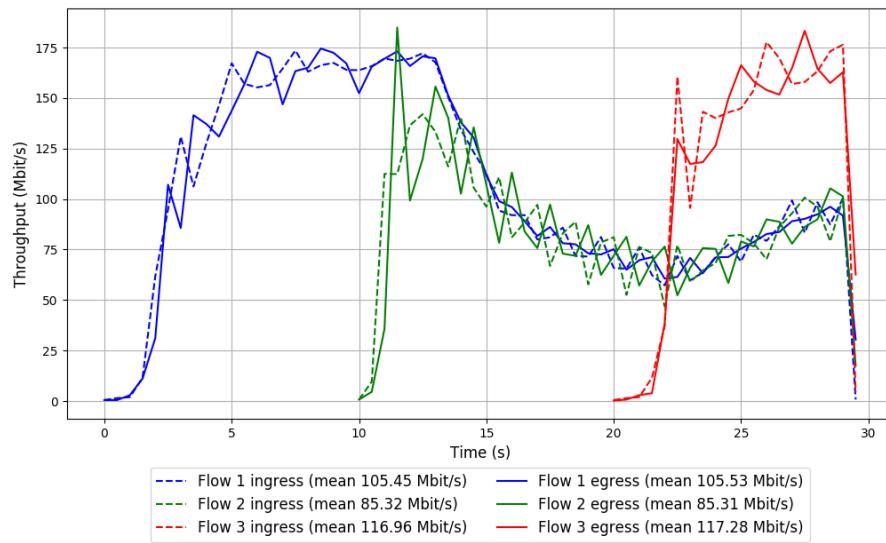
Run 5: Statistics of Indigo

Start at: 2017-12-21 08:43:31

End at: 2017-12-21 08:44:01

```
# Below is generated by plot.py at 2017-12-21 12:23:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 199.39 Mbit/s
95th percentile per-packet one-way delay: 163.760 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 105.53 Mbit/s
95th percentile per-packet one-way delay: 163.717 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 85.31 Mbit/s
95th percentile per-packet one-way delay: 163.839 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 117.28 Mbit/s
95th percentile per-packet one-way delay: 164.057 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo — Data Link



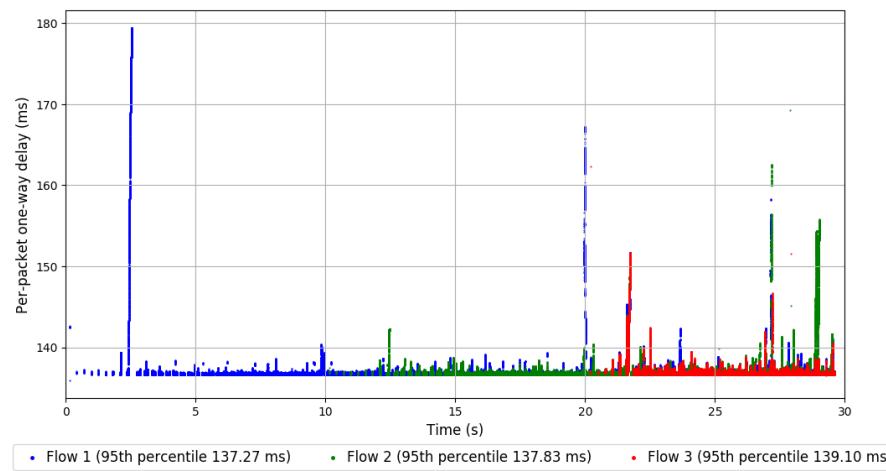
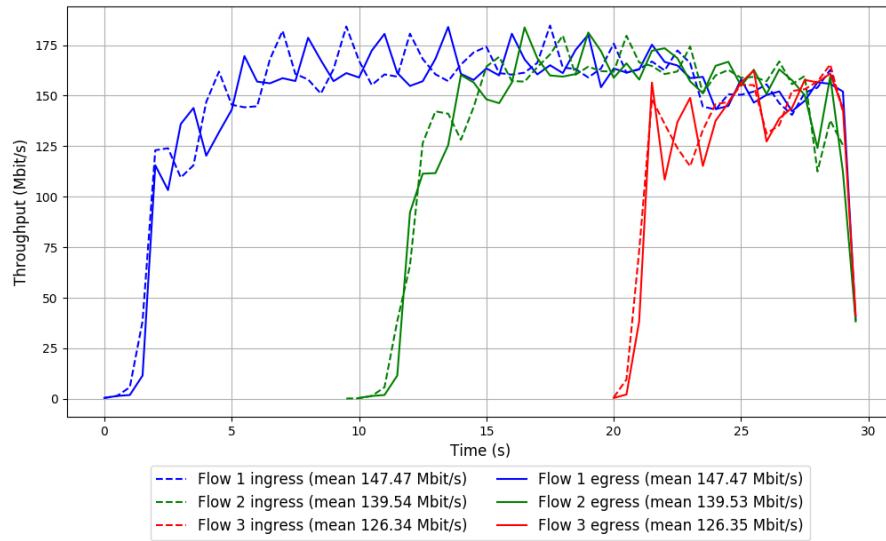
Run 6: Statistics of Indigo

Start at: 2017-12-21 08:59:23

End at: 2017-12-21 08:59:53

```
# Below is generated by plot.py at 2017-12-21 12:23:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 279.74 Mbit/s
95th percentile per-packet one-way delay: 137.699 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 147.47 Mbit/s
95th percentile per-packet one-way delay: 137.274 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 139.53 Mbit/s
95th percentile per-packet one-way delay: 137.832 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 126.35 Mbit/s
95th percentile per-packet one-way delay: 139.104 ms
Loss rate: 0.00%
```

Run 6: Report of Indigo — Data Link



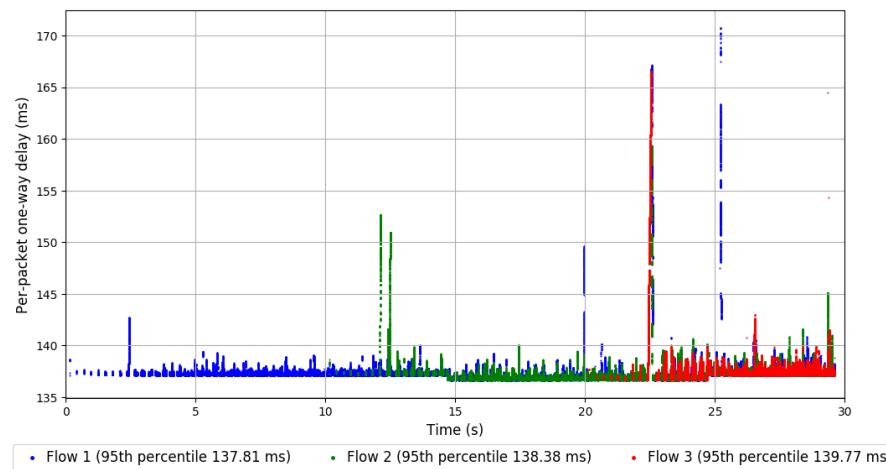
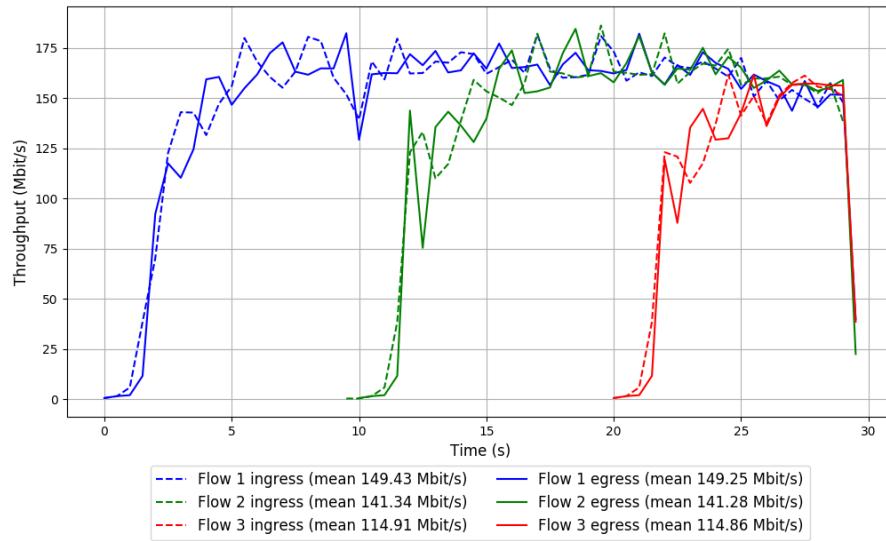
Run 7: Statistics of Indigo

Start at: 2017-12-21 09:15:10

End at: 2017-12-21 09:15:40

```
# Below is generated by plot.py at 2017-12-21 12:23:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 279.48 Mbit/s
95th percentile per-packet one-way delay: 138.188 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 149.25 Mbit/s
95th percentile per-packet one-way delay: 137.808 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 141.28 Mbit/s
95th percentile per-packet one-way delay: 138.385 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 114.86 Mbit/s
95th percentile per-packet one-way delay: 139.766 ms
Loss rate: 0.04%
```

Run 7: Report of Indigo — Data Link



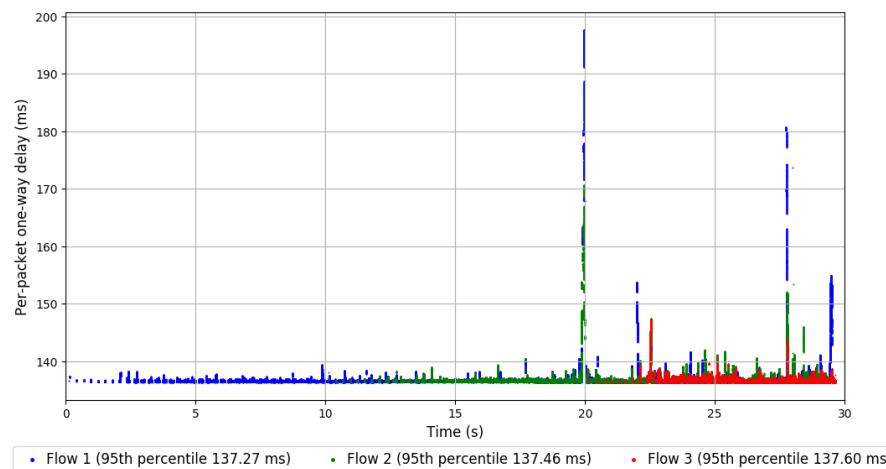
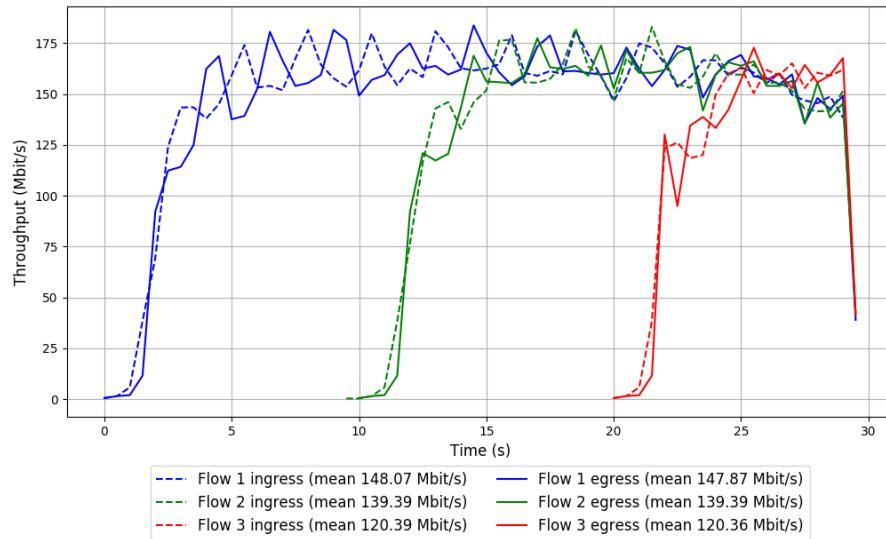
Run 8: Statistics of Indigo

Start at: 2017-12-21 09:31:36

End at: 2017-12-21 09:32:06

```
# Below is generated by plot.py at 2017-12-21 12:23:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 278.62 Mbit/s
95th percentile per-packet one-way delay: 137.393 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 147.87 Mbit/s
95th percentile per-packet one-way delay: 137.266 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 139.39 Mbit/s
95th percentile per-packet one-way delay: 137.458 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 120.36 Mbit/s
95th percentile per-packet one-way delay: 137.597 ms
Loss rate: 0.02%
```

Run 8: Report of Indigo — Data Link



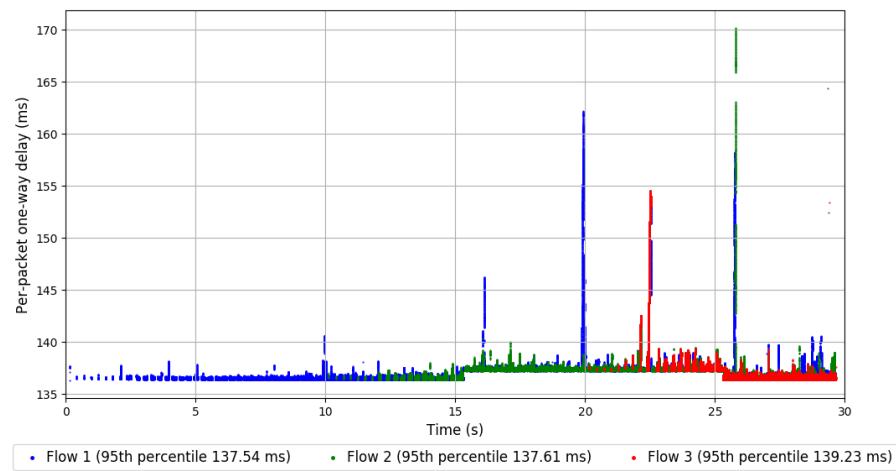
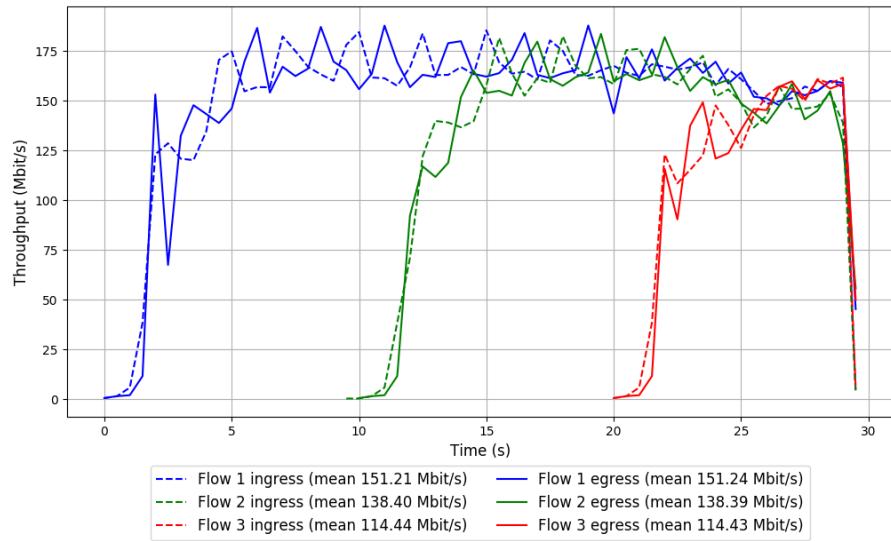
Run 9: Statistics of Indigo

Start at: 2017-12-21 09:47:49

End at: 2017-12-21 09:48:19

```
# Below is generated by plot.py at 2017-12-21 12:23:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 279.52 Mbit/s
95th percentile per-packet one-way delay: 137.676 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 151.24 Mbit/s
95th percentile per-packet one-way delay: 137.545 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 138.39 Mbit/s
95th percentile per-packet one-way delay: 137.613 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 114.43 Mbit/s
95th percentile per-packet one-way delay: 139.226 ms
Loss rate: 0.02%
```

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-12-21 10:03:56

End at: 2017-12-21 10:04:26

```
# Below is generated by plot.py at 2017-12-21 12:23:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 258.70 Mbit/s
95th percentile per-packet one-way delay: 137.631 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 149.62 Mbit/s
95th percentile per-packet one-way delay: 137.358 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 140.74 Mbit/s
95th percentile per-packet one-way delay: 137.695 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 50.39 Mbit/s
95th percentile per-packet one-way delay: 143.654 ms
Loss rate: 0.00%
```

Run 10: Report of Indigo — Data Link

