

Pantheon Report

Generated at 2017-11-17 12:24:55 (UTC).

Data path: GCE Iowa Ethernet (*local*) → GCE Tokyo Ethernet (*remote*).

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

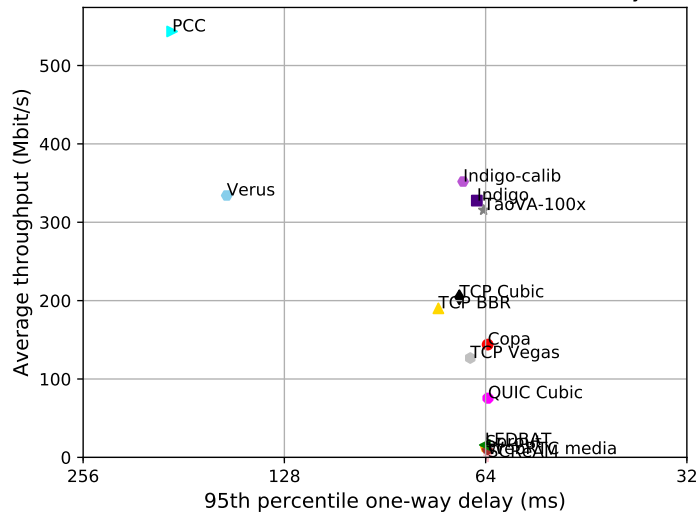
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

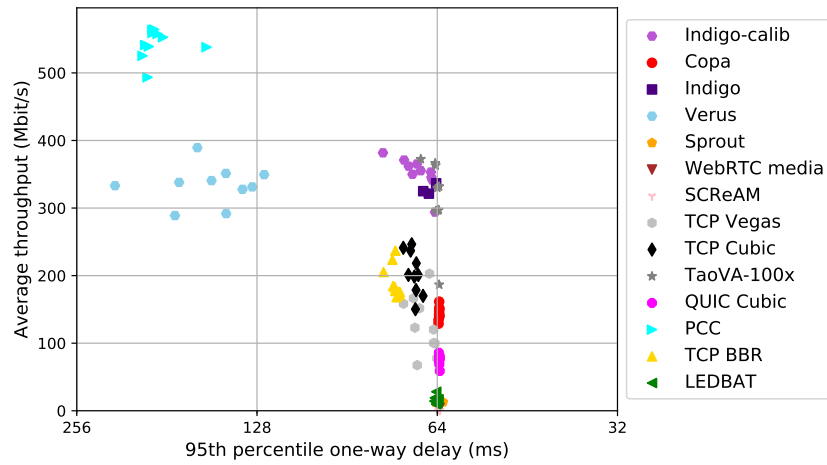
Git summary:

```
branch: indigos @ f54f2953f2a9765c9ffa988d13de5a9471790eb0
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fab936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	90.16	98.96	103.45	74.66	75.48	77.16	0.11	0.00	0.02
TCP Cubic	10	104.55	100.98	97.88	69.34	70.25	69.74	0.03	0.03	0.04
LEDBAT	10	9.03	7.65	5.10	64.21	64.13	63.78	0.41	0.30	0.35
PCC	10	493.17	47.01	57.85	188.44	186.82	181.20	1.70	1.62	2.44
QUIC Cubic	10	47.33	33.17	19.06	63.27	63.36	63.19	0.00	0.02	0.13
SCReAM	10	0.22	0.22	0.22	63.74	62.92	62.79	0.00	0.00	0.00
WebRTC media	10	2.23	1.41	0.57	63.21	63.43	63.25	0.03	0.02	0.21
Sprout	10	6.49	6.43	6.08	64.01	63.86	63.84	0.20	0.16	0.04
TaoVA-100x	9	183.28	117.64	177.63	64.44	64.29	65.45	0.00	0.01	0.01
TCP Vegas	10	59.02	67.59	67.26	66.37	66.33	67.03	0.08	0.11	0.03
Verus	10	183.30	168.05	109.10	138.23	169.63	167.56	0.32	0.53	1.37
Copa	10	77.15	74.28	67.17	63.55	63.54	63.62	0.03	0.10	0.00
Indigo	3	177.11	169.22	118.86	65.13	66.21	67.99	0.00	0.00	0.00
Indigo-calib	10	188.52	174.20	148.12	67.31	69.83	72.28	0.01	0.01	0.01

Run 1: Statistics of TCP BBR

Start at: 2017-11-17 08:13:06

End at: 2017-11-17 08:13:36

Below is generated by plot.py at 2017-11-17 11:28:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 205.24 Mbit/s

95th percentile per-packet one-way delay: 78.689 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 94.12 Mbit/s

95th percentile per-packet one-way delay: 76.882 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 96.46 Mbit/s

95th percentile per-packet one-way delay: 78.972 ms

Loss rate: 0.00%

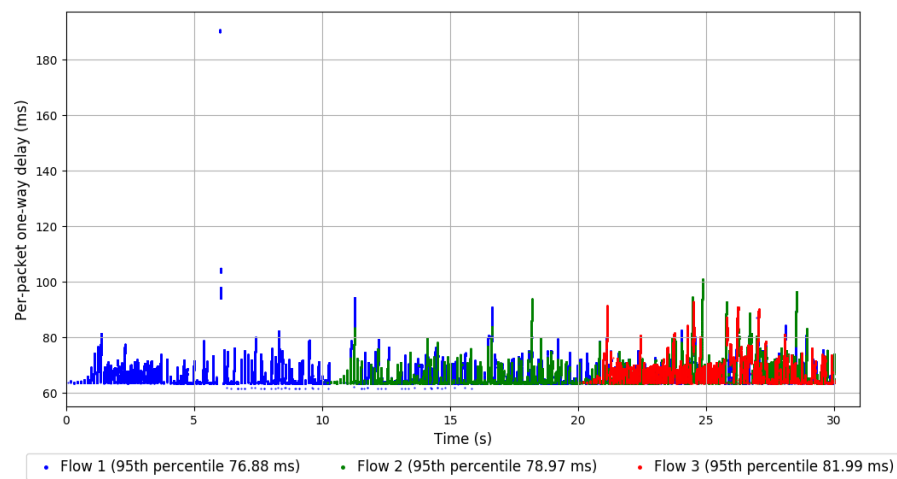
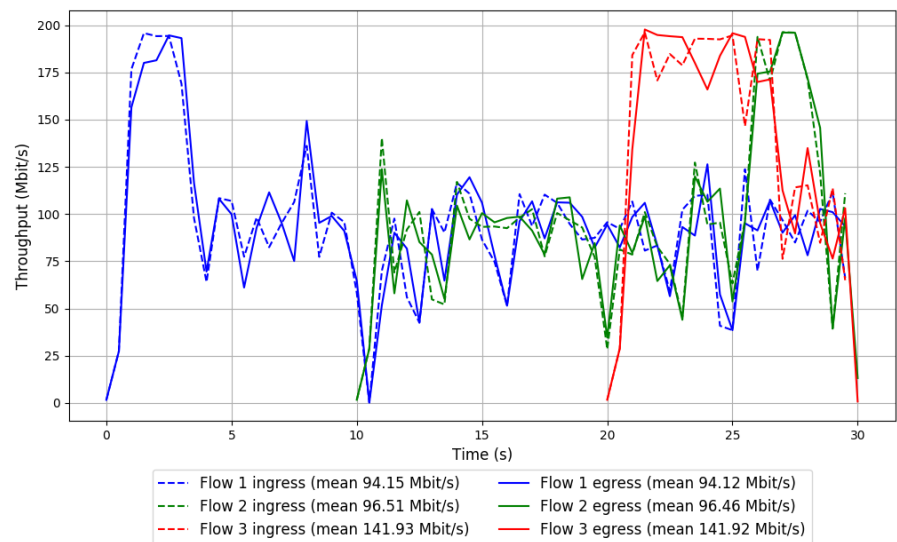
-- Flow 3:

Average throughput: 141.92 Mbit/s

95th percentile per-packet one-way delay: 81.990 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-17 08:25:28

End at: 2017-11-17 08:25:58

Below is generated by plot.py at 2017-11-17 11:28:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 168.01 Mbit/s

95th percentile per-packet one-way delay: 74.839 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 84.85 Mbit/s

95th percentile per-packet one-way delay: 73.957 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 80.13 Mbit/s

95th percentile per-packet one-way delay: 75.527 ms

Loss rate: 0.03%

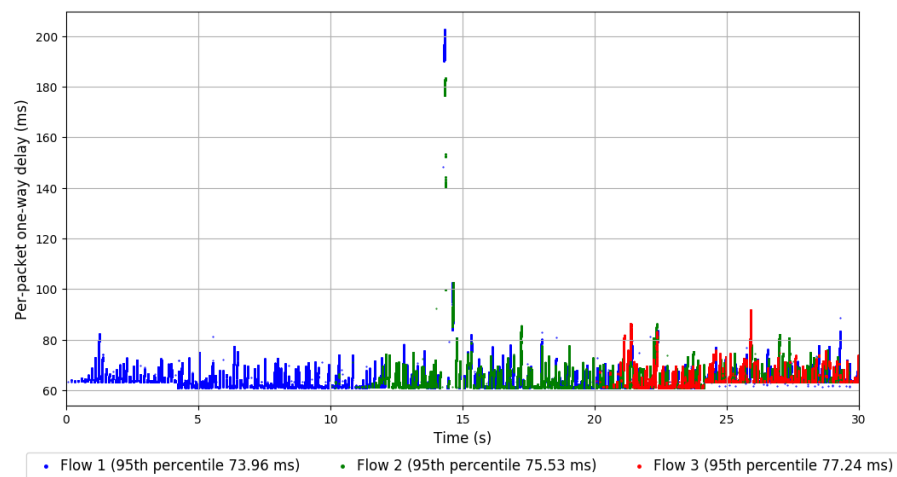
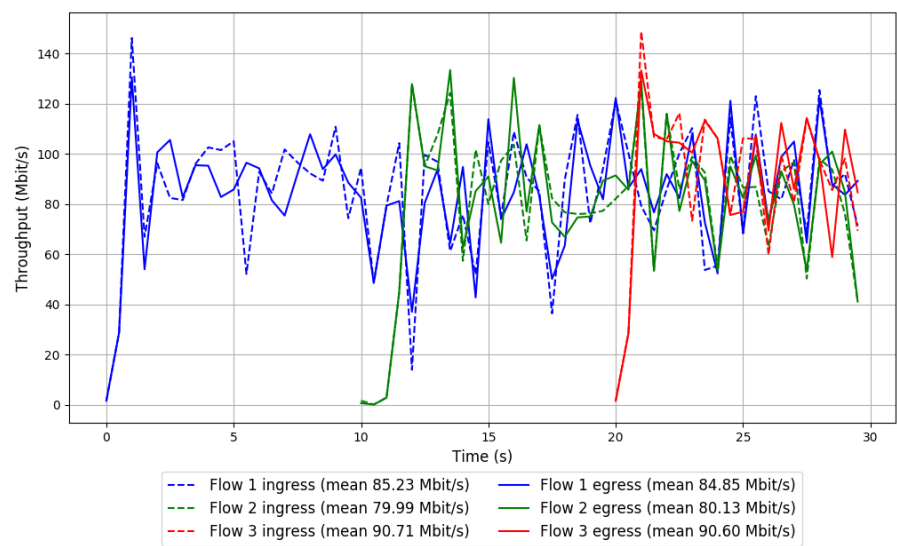
-- Flow 3:

Average throughput: 90.60 Mbit/s

95th percentile per-packet one-way delay: 77.242 ms

Loss rate: 0.02%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-17 08:37:55

End at: 2017-11-17 08:38:25

Below is generated by plot.py at 2017-11-17 11:29:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 223.47 Mbit/s

95th percentile per-packet one-way delay: 76.031 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 95.54 Mbit/s

95th percentile per-packet one-way delay: 76.449 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 145.92 Mbit/s

95th percentile per-packet one-way delay: 75.372 ms

Loss rate: 0.00%

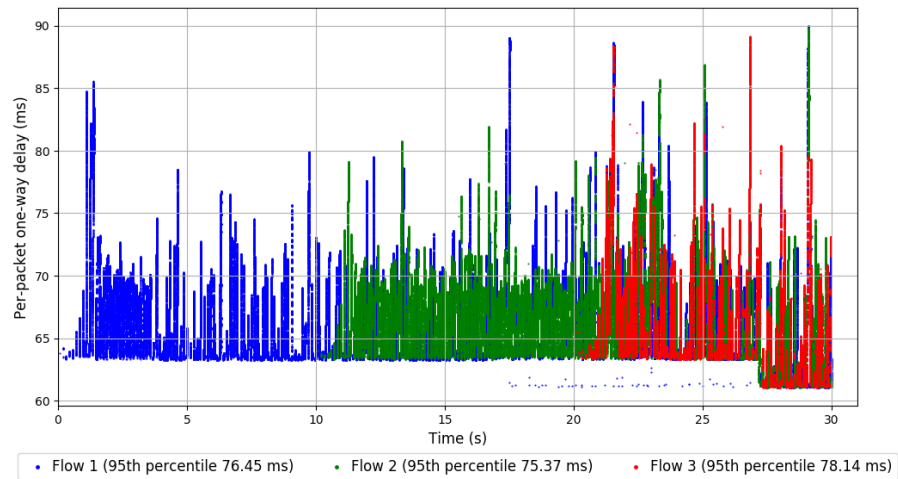
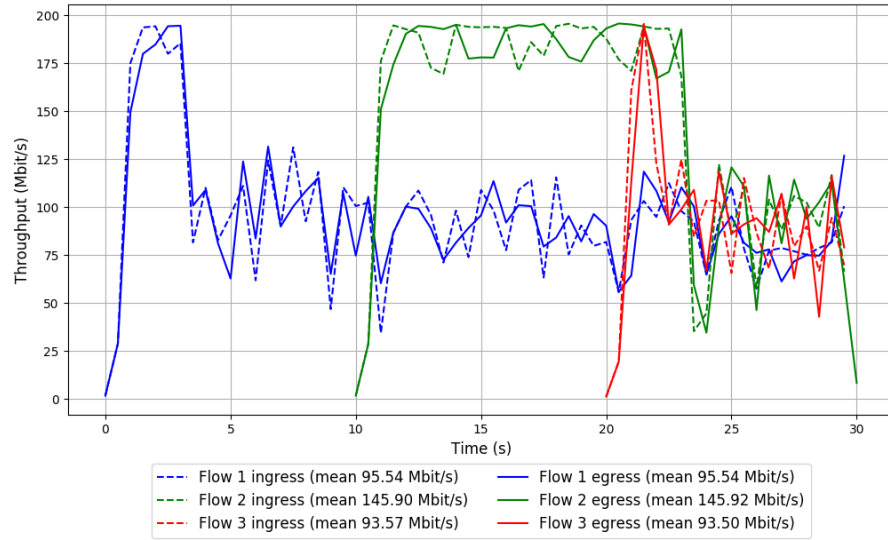
-- Flow 3:

Average throughput: 93.50 Mbit/s

95th percentile per-packet one-way delay: 78.135 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-17 08:50:33

End at: 2017-11-17 08:51:03

Below is generated by plot.py at 2017-11-17 11:29:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 182.98 Mbit/s

95th percentile per-packet one-way delay: 75.344 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 90.17 Mbit/s

95th percentile per-packet one-way delay: 75.302 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 95.30 Mbit/s

95th percentile per-packet one-way delay: 75.412 ms

Loss rate: 0.00%

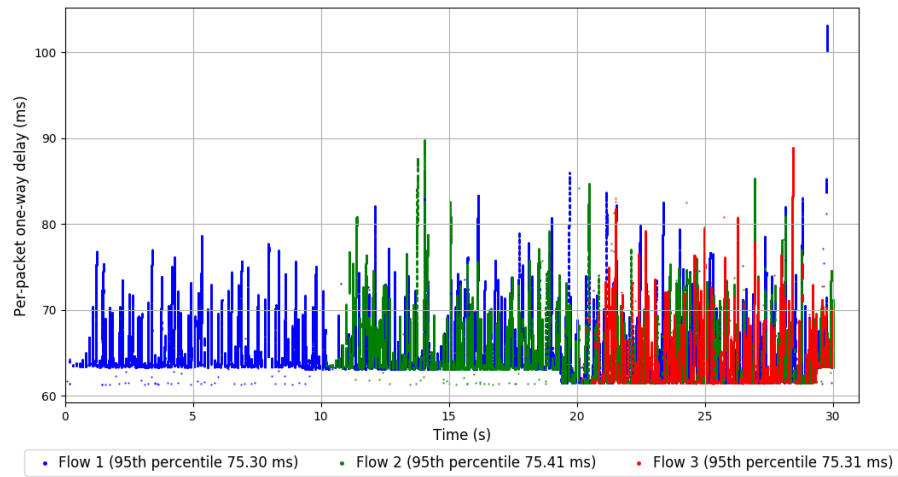
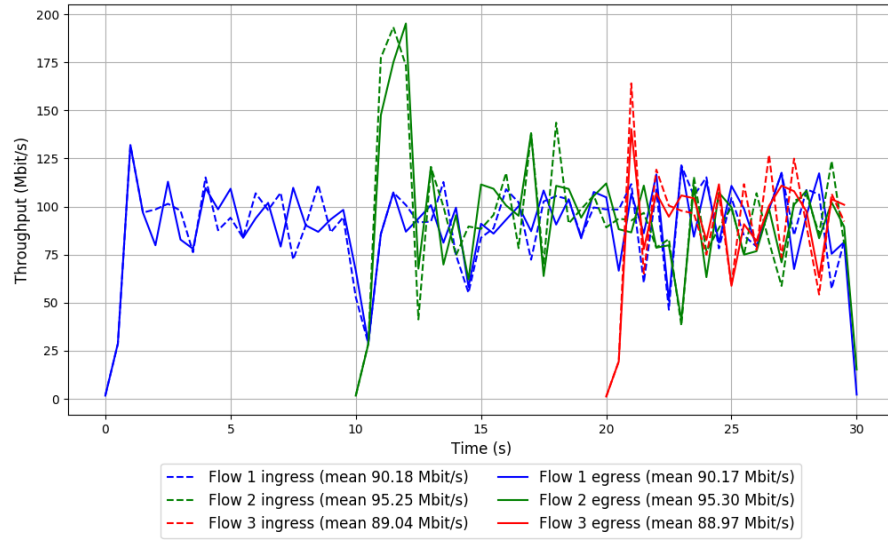
-- Flow 3:

Average throughput: 88.97 Mbit/s

95th percentile per-packet one-way delay: 75.305 ms

Loss rate: 0.01%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-17 09:02:52

End at: 2017-11-17 09:03:22

Below is generated by plot.py at 2017-11-17 11:29:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 175.82 Mbit/s

95th percentile per-packet one-way delay: 74.123 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 92.45 Mbit/s

95th percentile per-packet one-way delay: 73.711 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 82.95 Mbit/s

95th percentile per-packet one-way delay: 74.564 ms

Loss rate: 0.00%

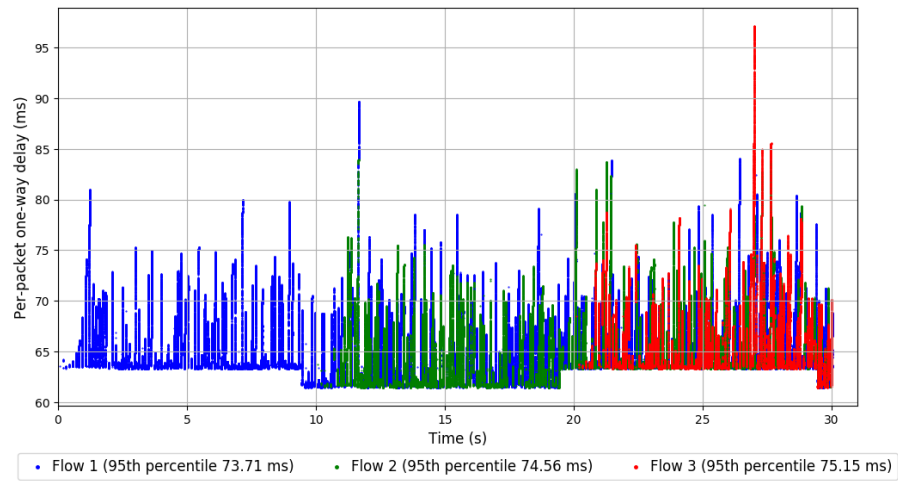
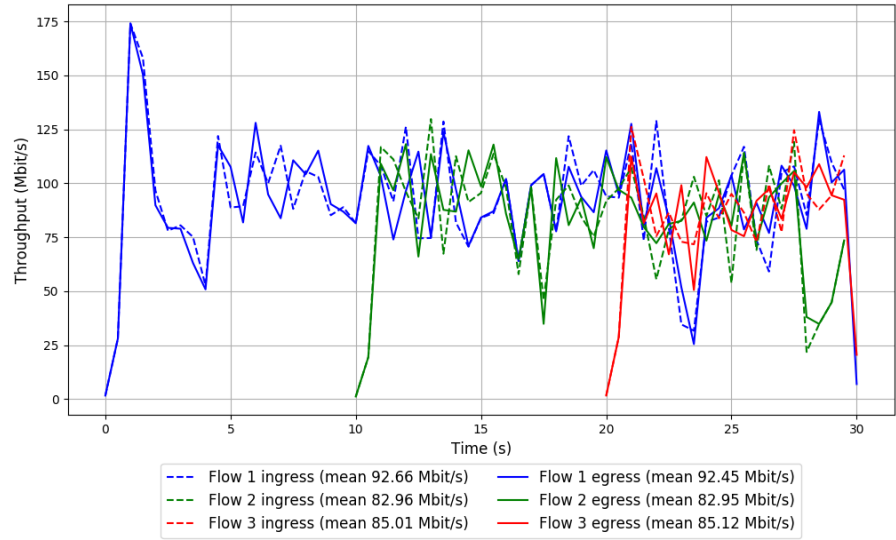
-- Flow 3:

Average throughput: 85.12 Mbit/s

95th percentile per-packet one-way delay: 75.154 ms

Loss rate: 0.02%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-17 09:15:07

End at: 2017-11-17 09:15:37

Below is generated by plot.py at 2017-11-17 11:29:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 184.68 Mbit/s

95th percentile per-packet one-way delay: 75.795 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 90.54 Mbit/s

95th percentile per-packet one-way delay: 74.680 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 98.13 Mbit/s

95th percentile per-packet one-way delay: 75.922 ms

Loss rate: 0.00%

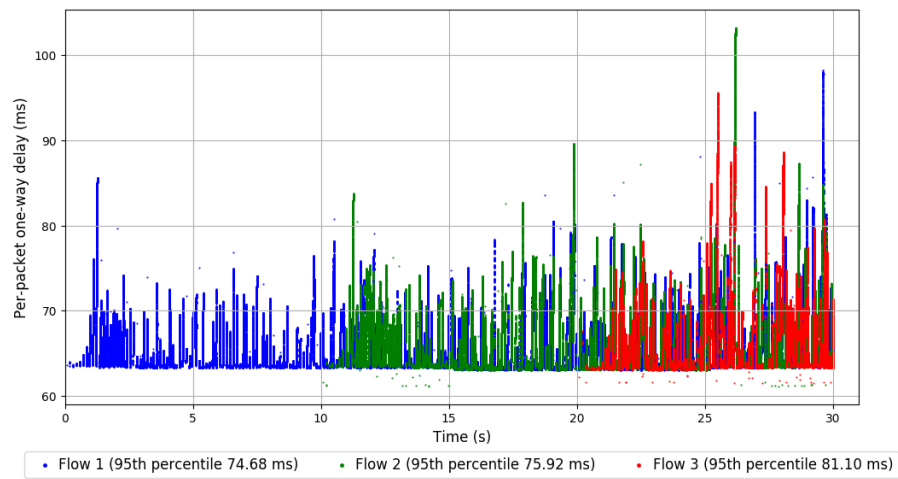
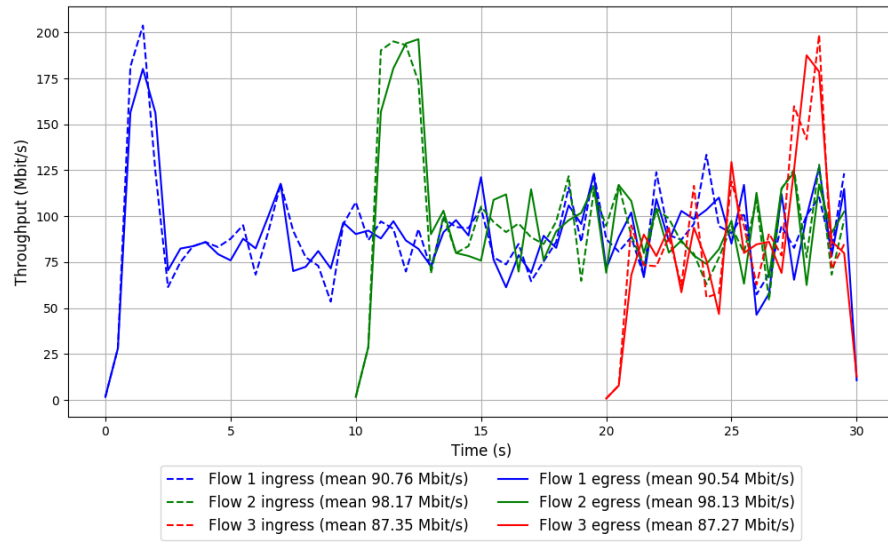
-- Flow 3:

Average throughput: 87.27 Mbit/s

95th percentile per-packet one-way delay: 81.096 ms

Loss rate: 0.01%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-11-17 09:27:06

End at: 2017-11-17 09:27:36

Below is generated by plot.py at 2017-11-17 11:29:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 177.37 Mbit/s

95th percentile per-packet one-way delay: 75.249 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 87.34 Mbit/s

95th percentile per-packet one-way delay: 74.572 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 79.86 Mbit/s

95th percentile per-packet one-way delay: 75.503 ms

Loss rate: 0.00%

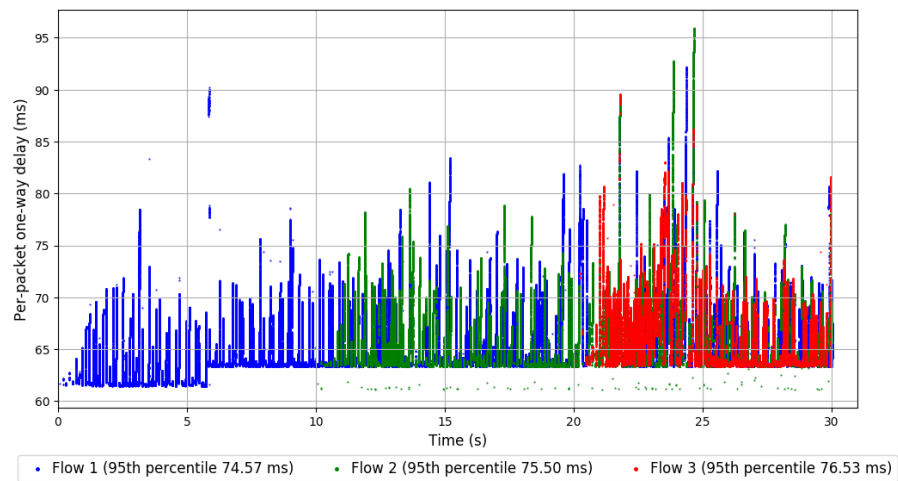
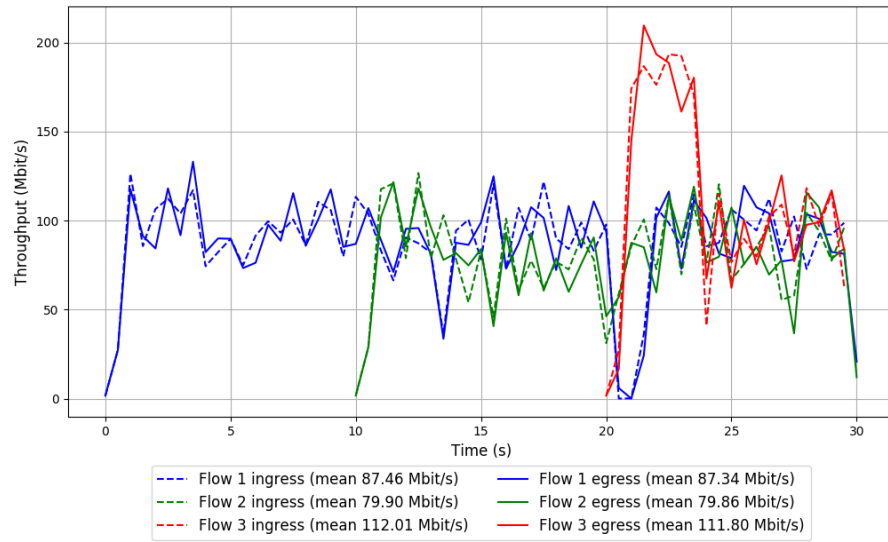
-- Flow 3:

Average throughput: 111.80 Mbit/s

95th percentile per-packet one-way delay: 76.531 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-17 09:39:17

End at: 2017-11-17 09:39:47

Below is generated by plot.py at 2017-11-17 11:29:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 171.61 Mbit/s

95th percentile per-packet one-way delay: 73.971 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 87.10 Mbit/s

95th percentile per-packet one-way delay: 73.052 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 83.98 Mbit/s

95th percentile per-packet one-way delay: 75.153 ms

Loss rate: 0.00%

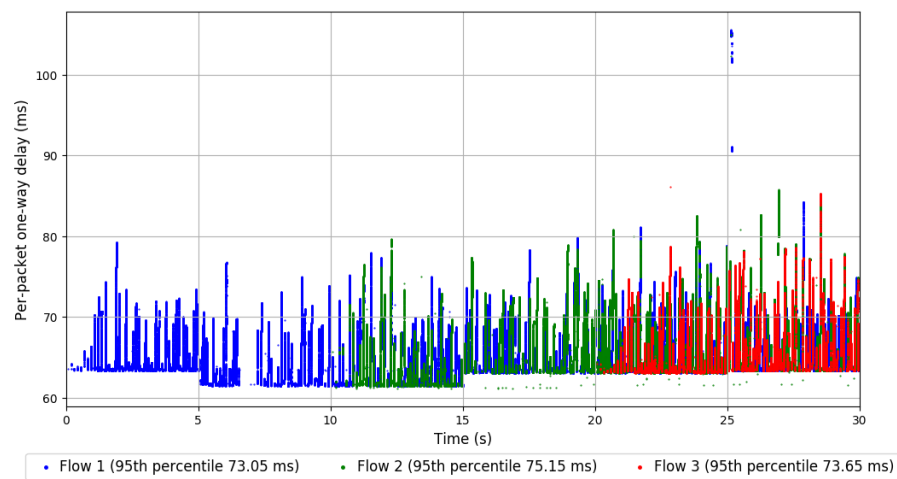
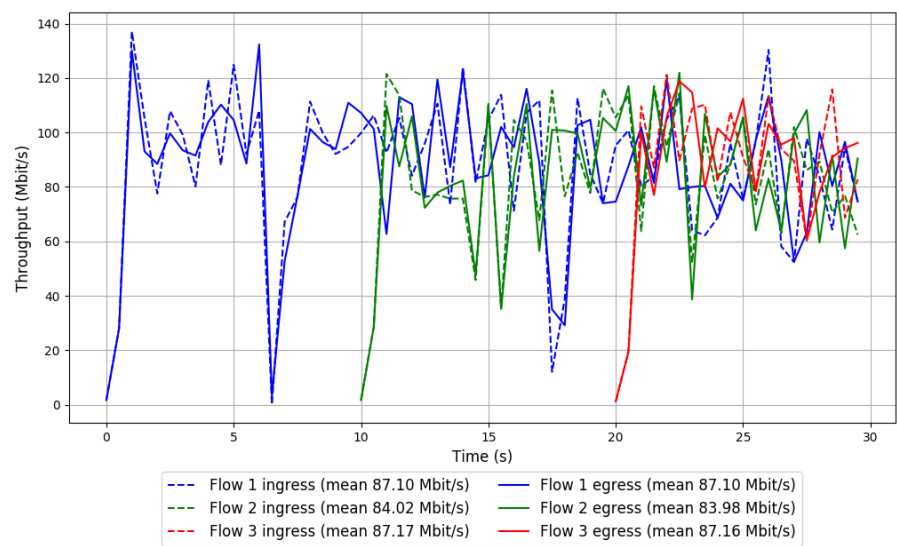
-- Flow 3:

Average throughput: 87.16 Mbit/s

95th percentile per-packet one-way delay: 73.647 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-17 09:51:38

End at: 2017-11-17 09:52:08

Below is generated by plot.py at 2017-11-17 11:31:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 236.93 Mbit/s

95th percentile per-packet one-way delay: 75.183 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 87.89 Mbit/s

95th percentile per-packet one-way delay: 74.325 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 139.38 Mbit/s

95th percentile per-packet one-way delay: 75.153 ms

Loss rate: 0.00%

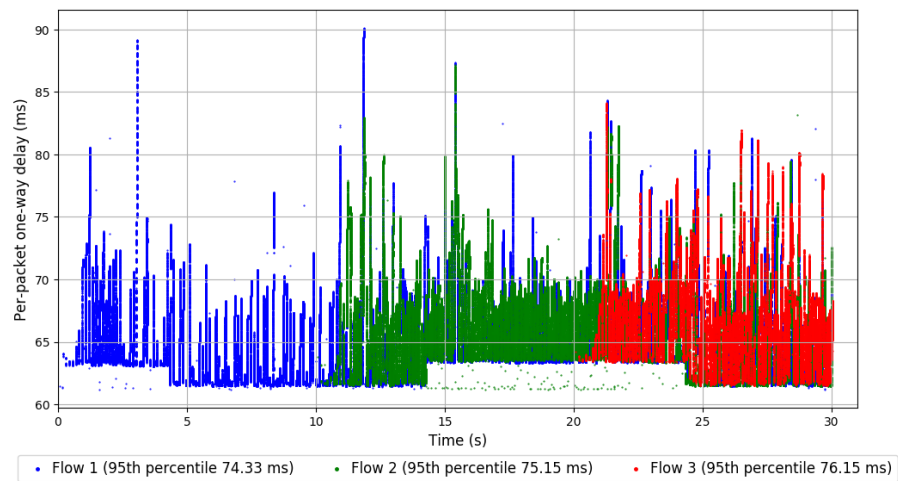
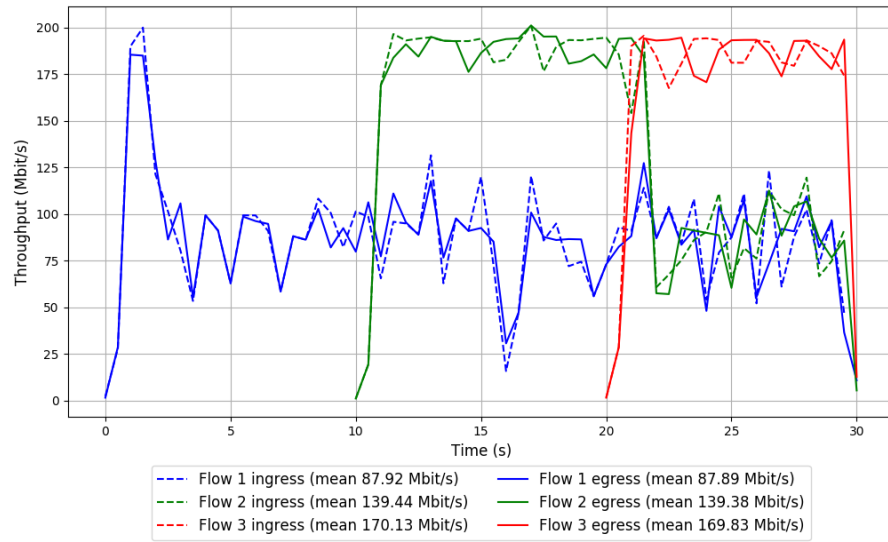
-- Flow 3:

Average throughput: 169.83 Mbit/s

95th percentile per-packet one-way delay: 76.148 ms

Loss rate: 0.18%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-17 10:04:16

End at: 2017-11-17 10:04:46

Below is generated by plot.py at 2017-11-17 11:31:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 175.56 Mbit/s

95th percentile per-packet one-way delay: 73.879 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 91.62 Mbit/s

95th percentile per-packet one-way delay: 73.674 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 87.49 Mbit/s

95th percentile per-packet one-way delay: 73.177 ms

Loss rate: 0.01%

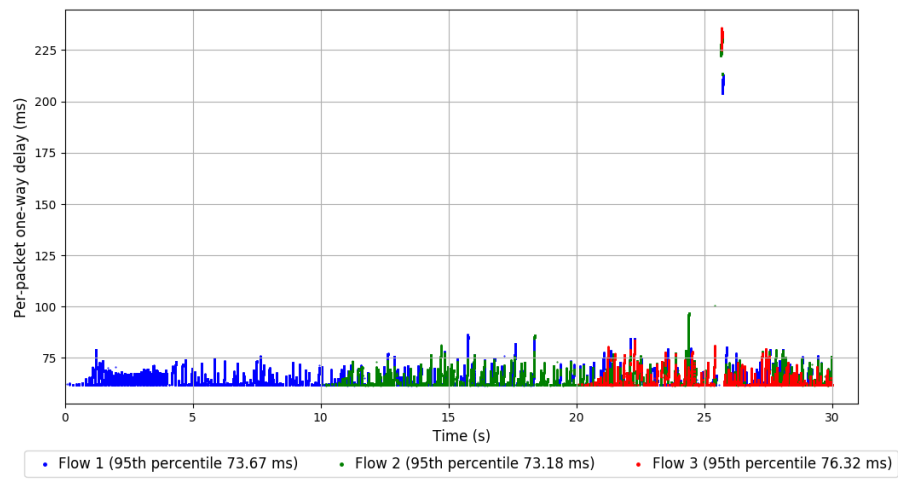
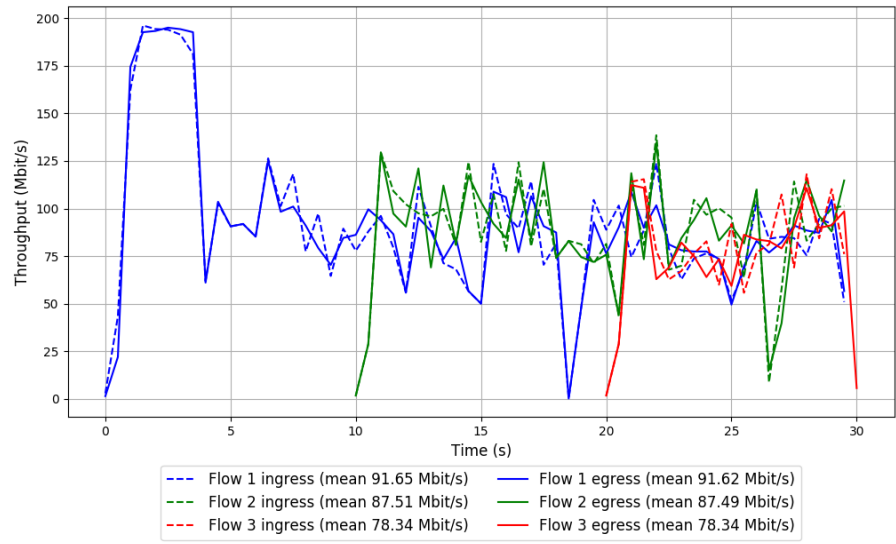
-- Flow 3:

Average throughput: 78.34 Mbit/s

95th percentile per-packet one-way delay: 76.324 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-11-17 08:12:10

End at: 2017-11-17 08:12:40

Below is generated by plot.py at 2017-11-17 11:31:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 241.16 Mbit/s

95th percentile per-packet one-way delay: 72.921 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 126.14 Mbit/s

95th percentile per-packet one-way delay: 72.938 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 131.28 Mbit/s

95th percentile per-packet one-way delay: 73.154 ms

Loss rate: 0.00%

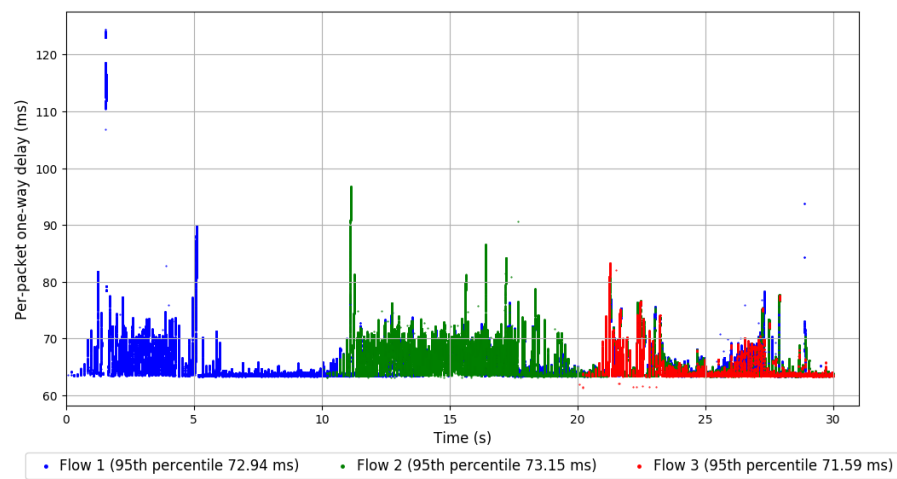
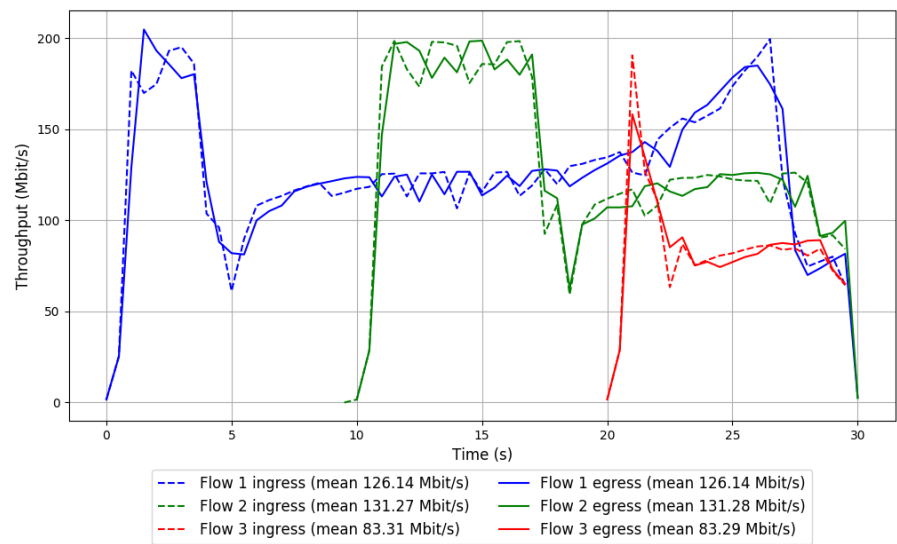
-- Flow 3:

Average throughput: 83.29 Mbit/s

95th percentile per-packet one-way delay: 71.590 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-17 08:24:35

End at: 2017-11-17 08:25:05

Below is generated by plot.py at 2017-11-17 11:31:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 198.57 Mbit/s

95th percentile per-packet one-way delay: 69.887 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 81.99 Mbit/s

95th percentile per-packet one-way delay: 68.728 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 121.15 Mbit/s

95th percentile per-packet one-way delay: 70.242 ms

Loss rate: 0.00%

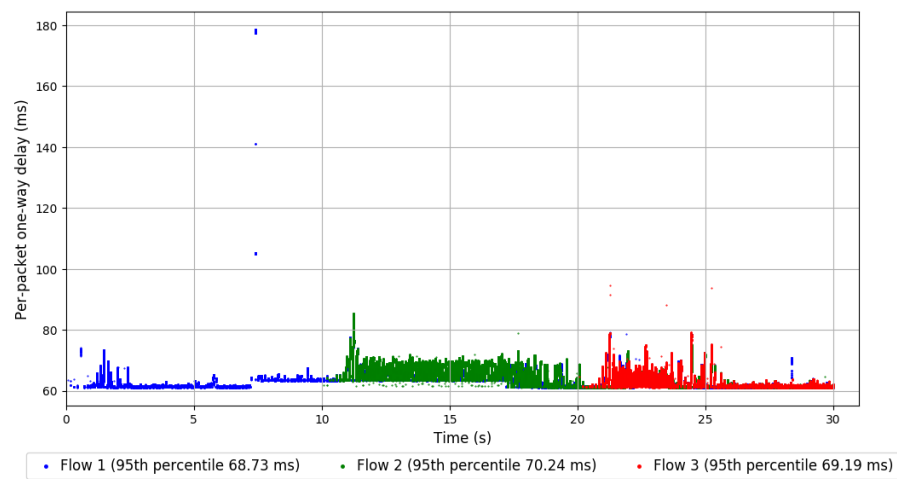
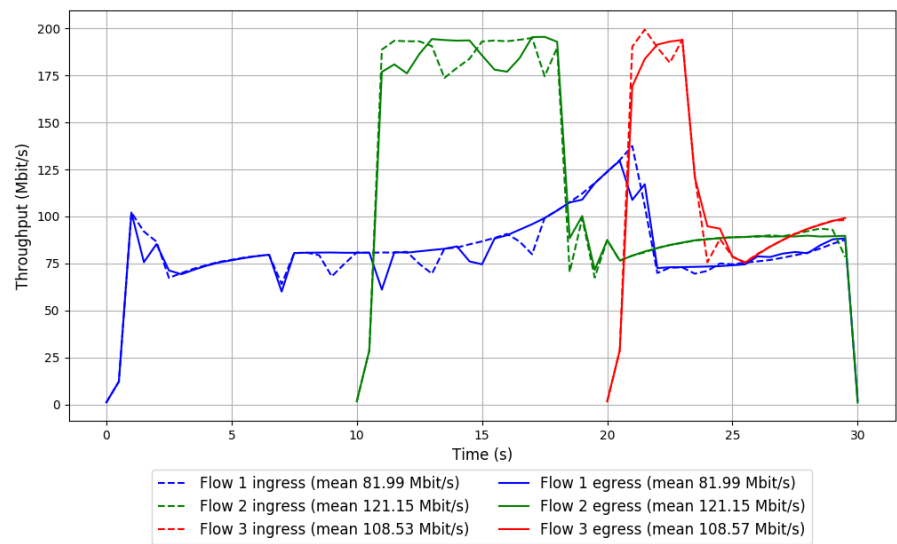
-- Flow 3:

Average throughput: 108.57 Mbit/s

95th percentile per-packet one-way delay: 69.193 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-17 08:36:59

End at: 2017-11-17 08:37:29

Below is generated by plot.py at 2017-11-17 11:32:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 246.38 Mbit/s

95th percentile per-packet one-way delay: 70.603 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 115.79 Mbit/s

95th percentile per-packet one-way delay: 69.218 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 143.19 Mbit/s

95th percentile per-packet one-way delay: 71.102 ms

Loss rate: 0.00%

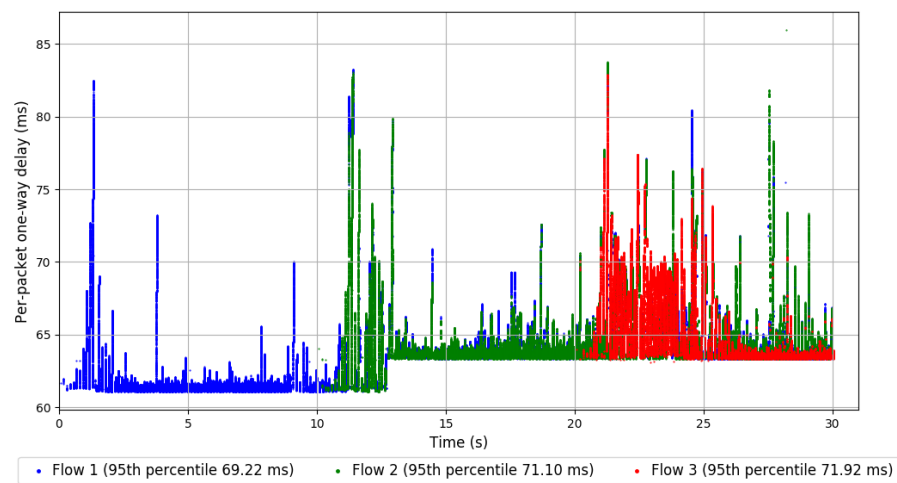
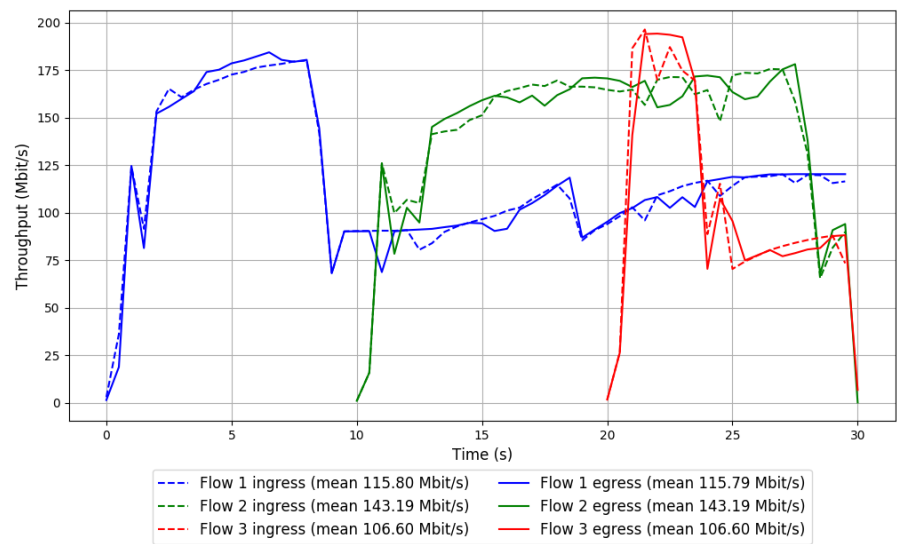
-- Flow 3:

Average throughput: 106.60 Mbit/s

95th percentile per-packet one-way delay: 71.918 ms

Loss rate: 0.01%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-17 08:49:41

End at: 2017-11-17 08:50:11

Below is generated by plot.py at 2017-11-17 11:32:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 170.02 Mbit/s

95th percentile per-packet one-way delay: 67.585 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 81.91 Mbit/s

95th percentile per-packet one-way delay: 68.519 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 89.59 Mbit/s

95th percentile per-packet one-way delay: 65.513 ms

Loss rate: 0.26%

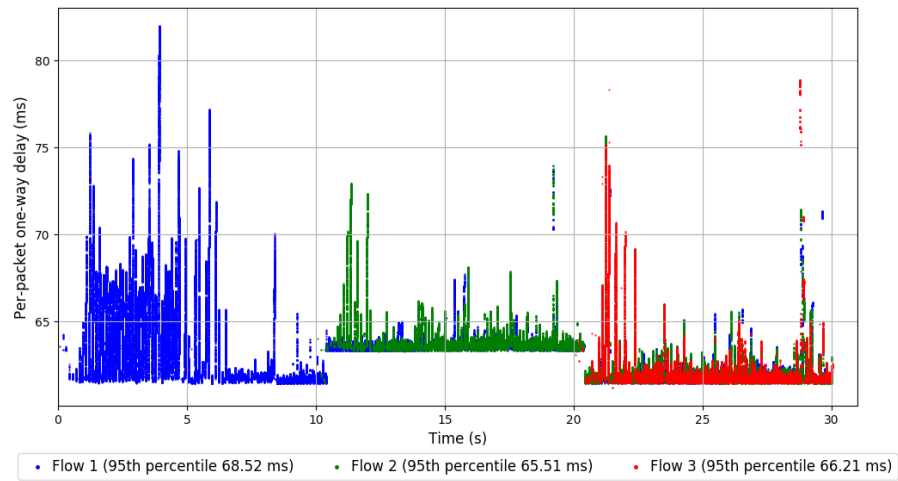
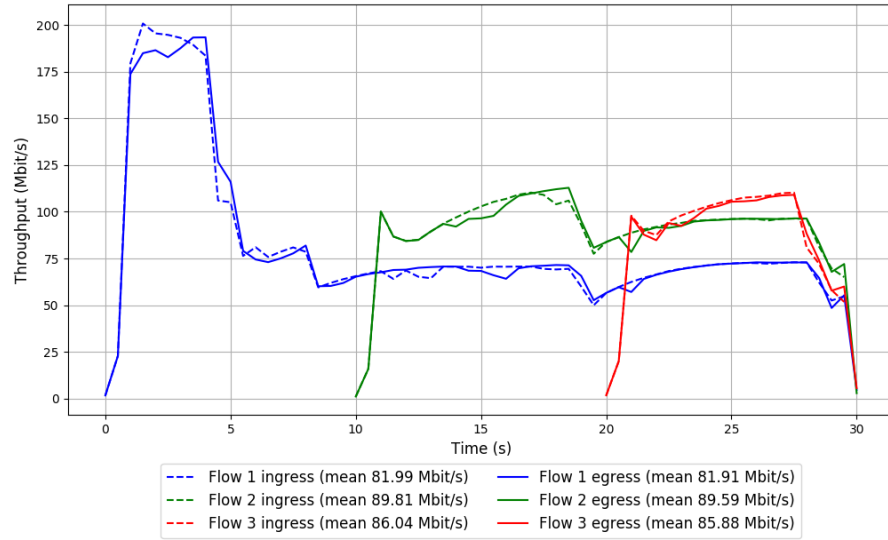
-- Flow 3:

Average throughput: 85.88 Mbit/s

95th percentile per-packet one-way delay: 66.212 ms

Loss rate: 0.19%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-17 09:02:01

End at: 2017-11-17 09:02:31

Below is generated by plot.py at 2017-11-17 11:32:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 178.68 Mbit/s

95th percentile per-packet one-way delay: 69.437 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 84.97 Mbit/s

95th percentile per-packet one-way delay: 67.041 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 92.97 Mbit/s

95th percentile per-packet one-way delay: 69.917 ms

Loss rate: 0.00%

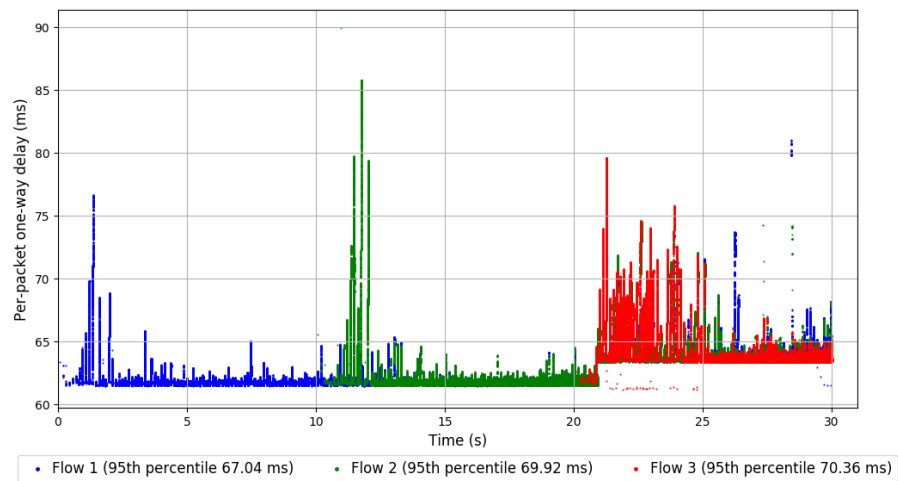
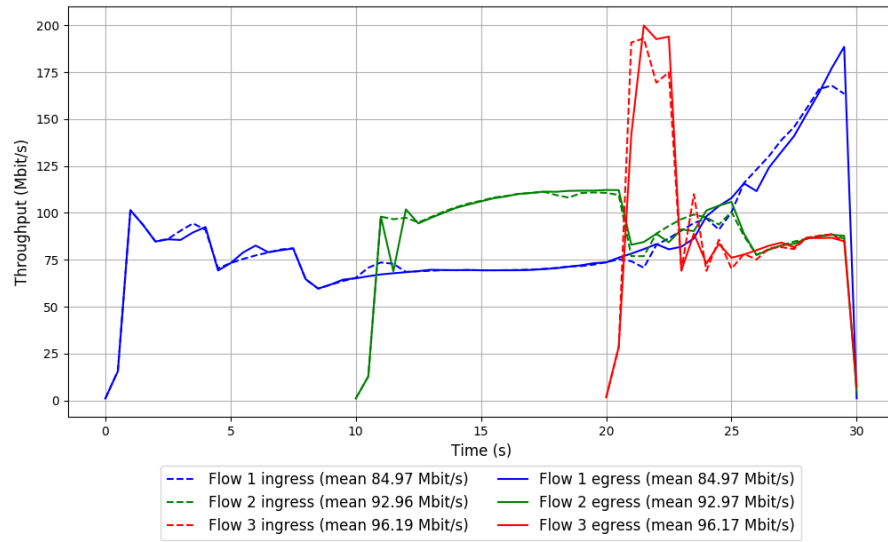
-- Flow 3:

Average throughput: 96.17 Mbit/s

95th percentile per-packet one-way delay: 70.364 ms

Loss rate: 0.01%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-17 09:14:14

End at: 2017-11-17 09:14:44

Below is generated by plot.py at 2017-11-17 11:32:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 200.81 Mbit/s

95th percentile per-packet one-way delay: 68.835 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 111.94 Mbit/s

95th percentile per-packet one-way delay: 67.641 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 90.75 Mbit/s

95th percentile per-packet one-way delay: 69.191 ms

Loss rate: 0.00%

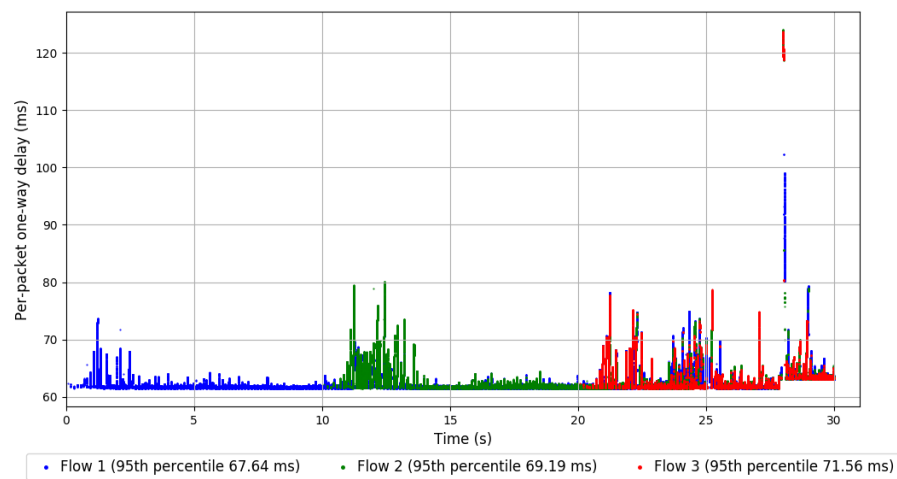
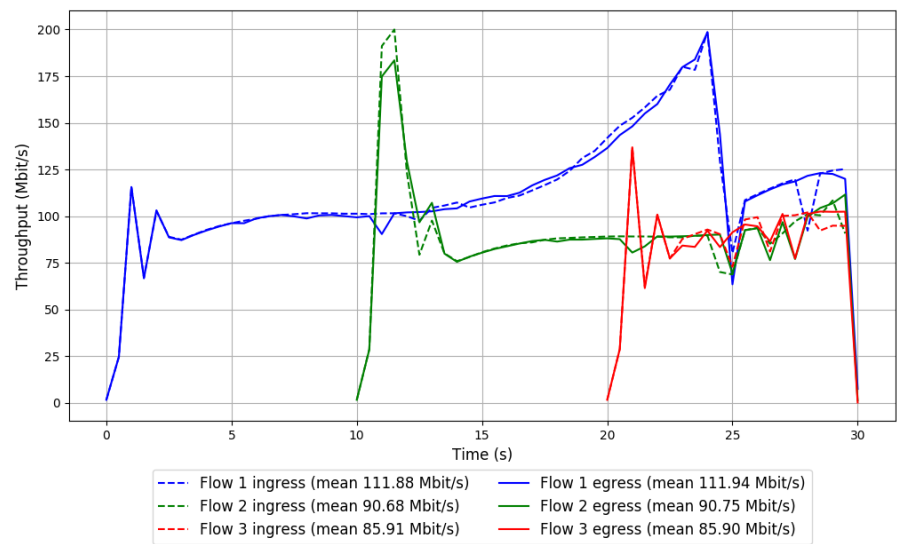
-- Flow 3:

Average throughput: 85.90 Mbit/s

95th percentile per-packet one-way delay: 71.564 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-17 09:26:13

End at: 2017-11-17 09:26:43

Below is generated by plot.py at 2017-11-17 11:34:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 201.04 Mbit/s

95th percentile per-packet one-way delay: 71.504 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 103.19 Mbit/s

95th percentile per-packet one-way delay: 71.675 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 100.67 Mbit/s

95th percentile per-packet one-way delay: 71.891 ms

Loss rate: 0.00%

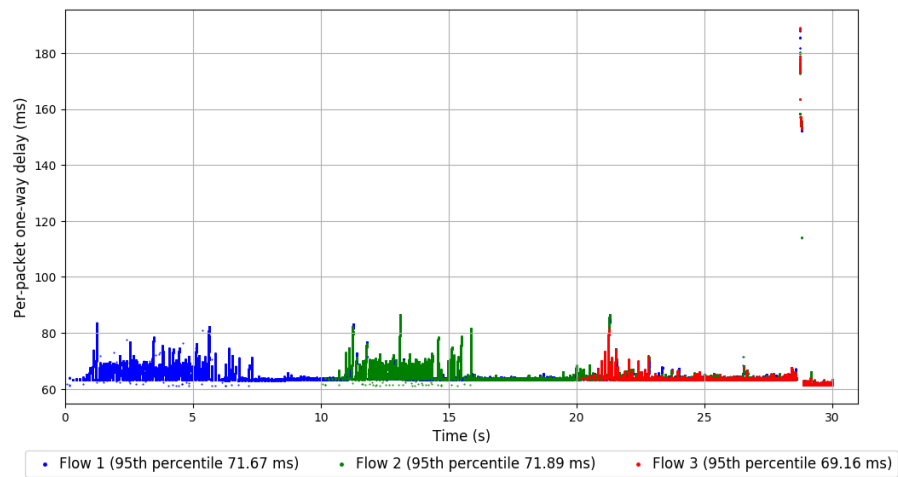
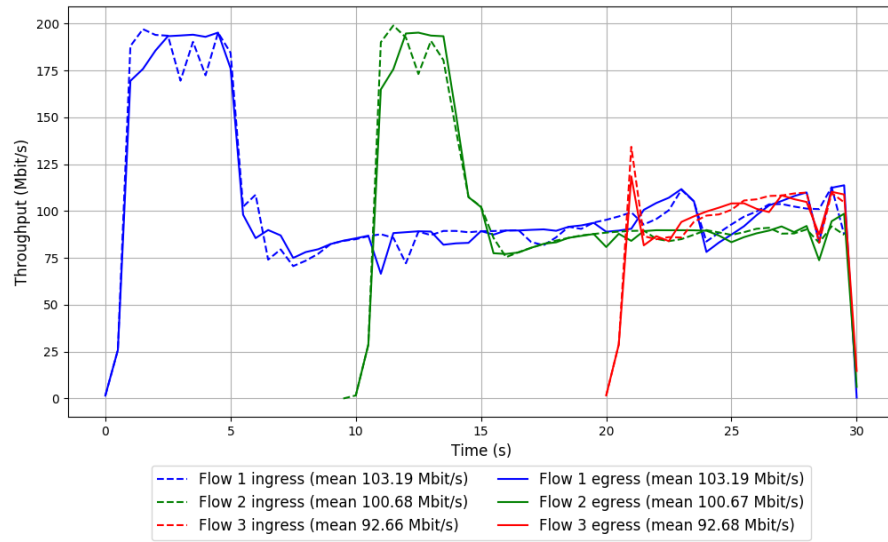
-- Flow 3:

Average throughput: 92.68 Mbit/s

95th percentile per-packet one-way delay: 69.157 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-17 09:38:27

End at: 2017-11-17 09:38:57

Below is generated by plot.py at 2017-11-17 11:34:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 150.33 Mbit/s

95th percentile per-packet one-way delay: 69.602 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 87.53 Mbit/s

95th percentile per-packet one-way delay: 69.099 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 13.75 Mbit/s

95th percentile per-packet one-way delay: 69.167 ms

Loss rate: 0.04%

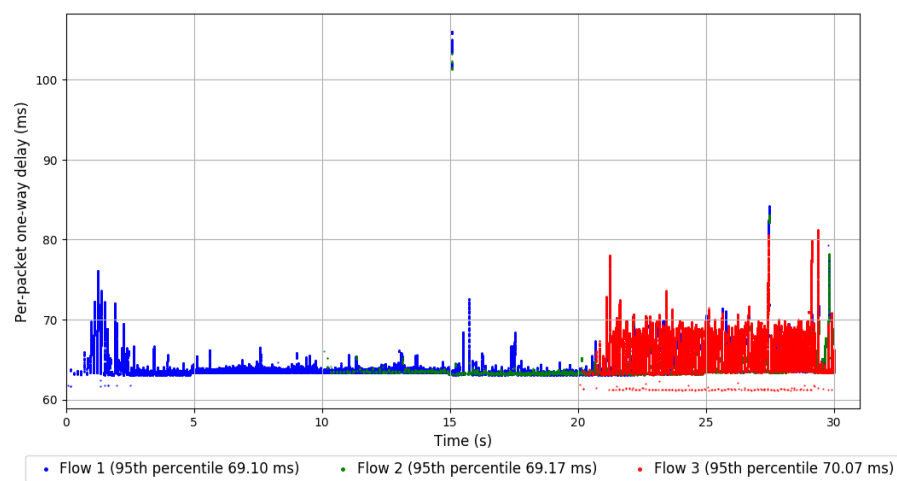
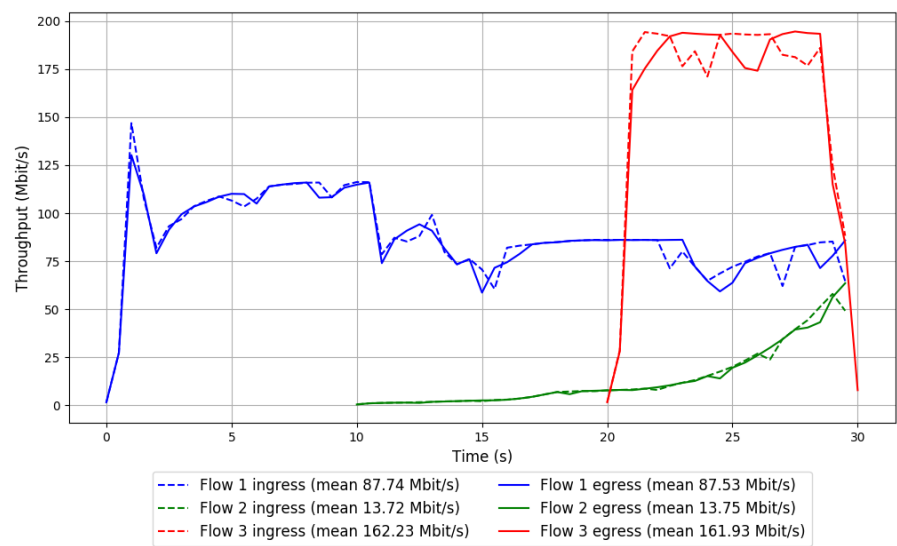
-- Flow 3:

Average throughput: 161.93 Mbit/s

95th percentile per-packet one-way delay: 70.072 ms

Loss rate: 0.17%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-17 09:50:43

End at: 2017-11-17 09:51:13

Below is generated by plot.py at 2017-11-17 11:35:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 236.96 Mbit/s

95th percentile per-packet one-way delay: 70.908 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 123.57 Mbit/s

95th percentile per-packet one-way delay: 69.850 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 127.37 Mbit/s

95th percentile per-packet one-way delay: 71.978 ms

Loss rate: 0.00%

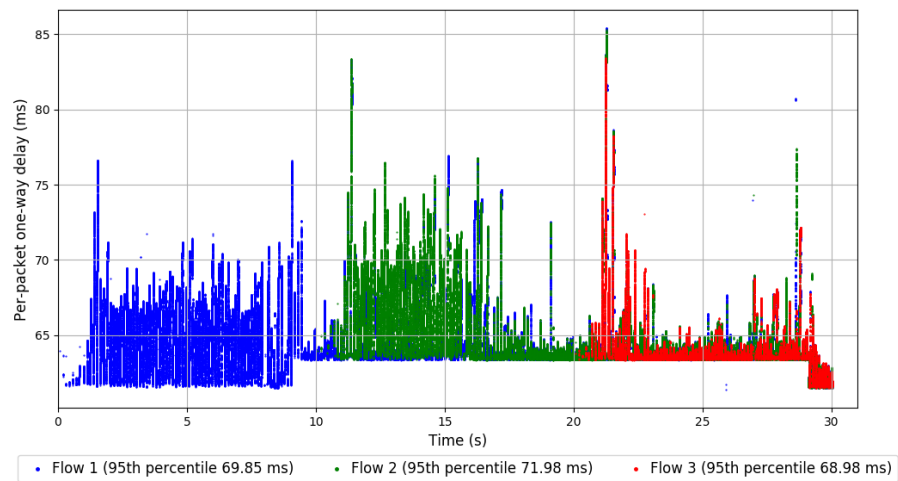
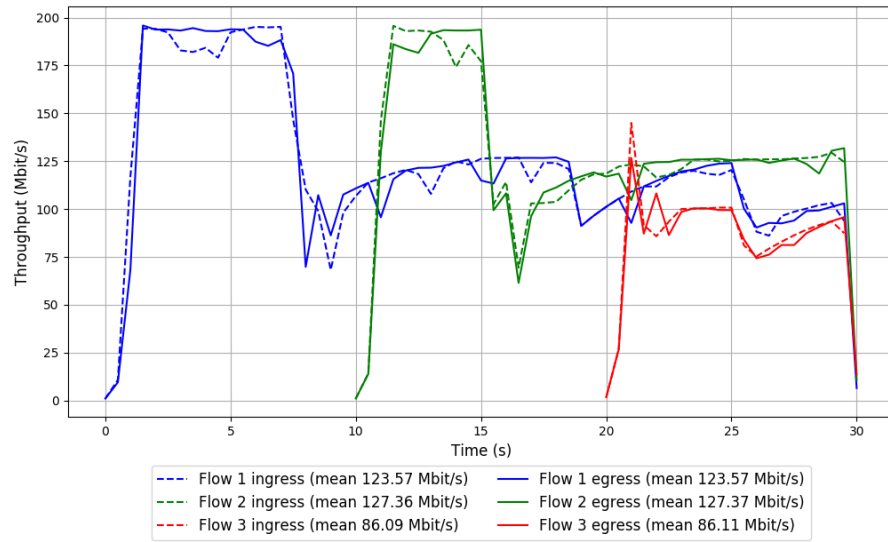
-- Flow 3:

Average throughput: 86.11 Mbit/s

95th percentile per-packet one-way delay: 68.982 ms

Loss rate: 0.01%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-17 10:03:23

End at: 2017-11-17 10:03:53

Below is generated by plot.py at 2017-11-17 11:35:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 218.26 Mbit/s

95th percentile per-packet one-way delay: 69.358 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 128.50 Mbit/s

95th percentile per-packet one-way delay: 68.709 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 99.12 Mbit/s

95th percentile per-packet one-way delay: 70.352 ms

Loss rate: 0.00%

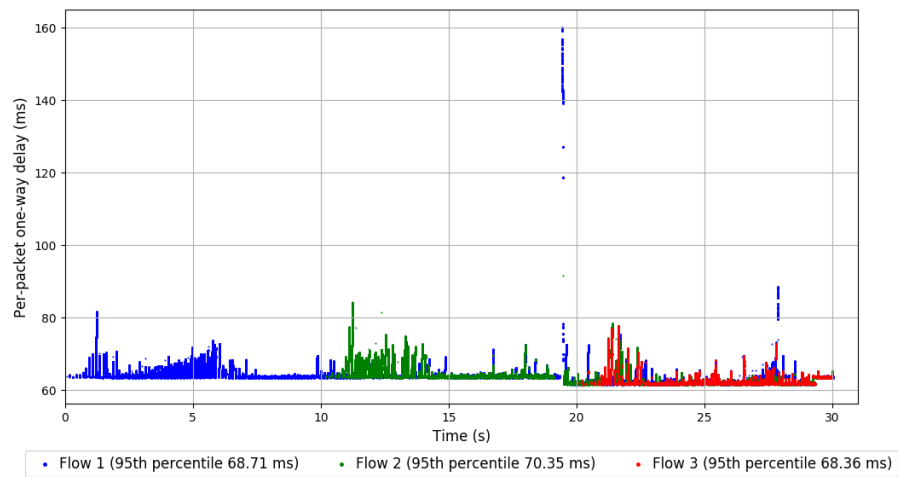
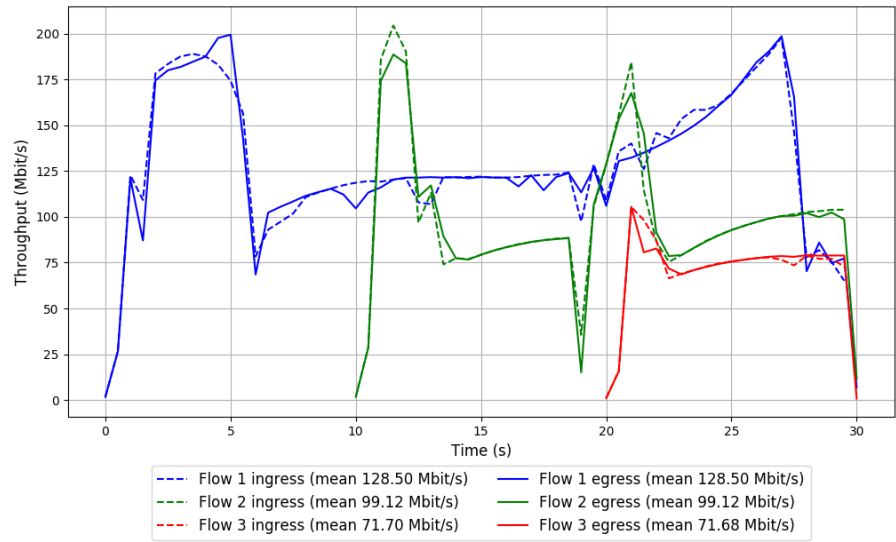
-- Flow 3:

Average throughput: 71.68 Mbit/s

95th percentile per-packet one-way delay: 68.364 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

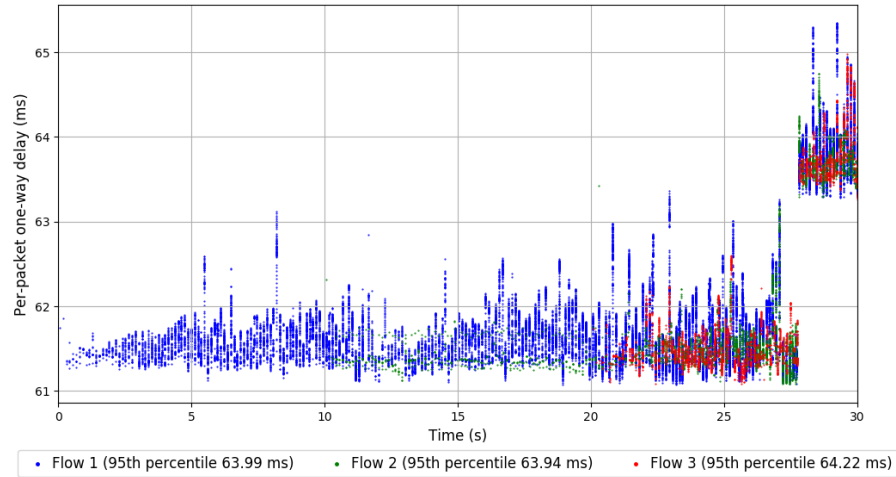
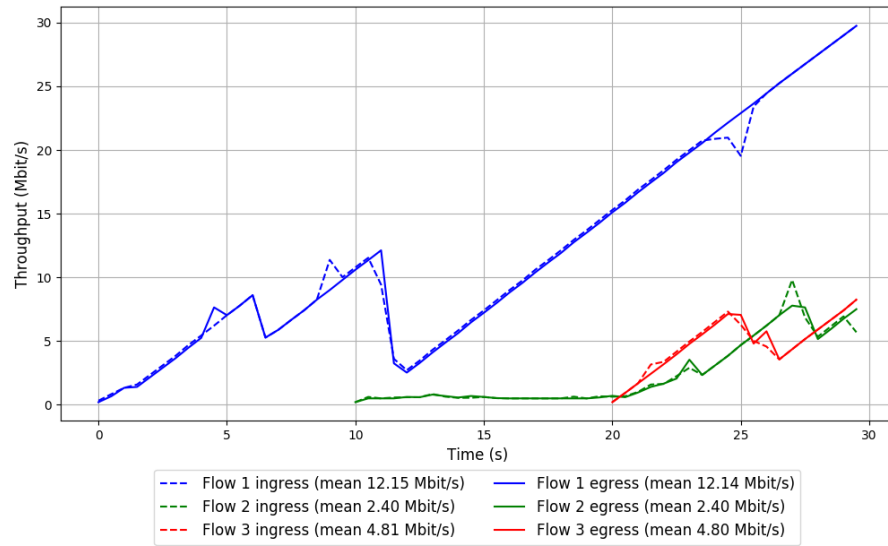


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-17 08:18:44
End at: 2017-11-17 08:19:14

# Below is generated by plot.py at 2017-11-17 11:35:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.33 Mbit/s
95th percentile per-packet one-way delay: 64.005 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 12.14 Mbit/s
95th percentile per-packet one-way delay: 63.989 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 63.941 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.80 Mbit/s
95th percentile per-packet one-way delay: 64.217 ms
Loss rate: 0.15%
```


Run 1: Report of LEDBAT — Data Link

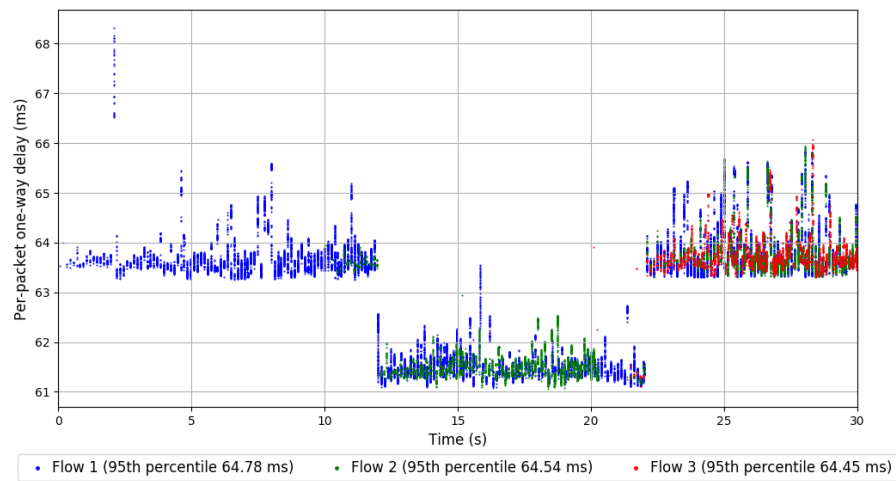
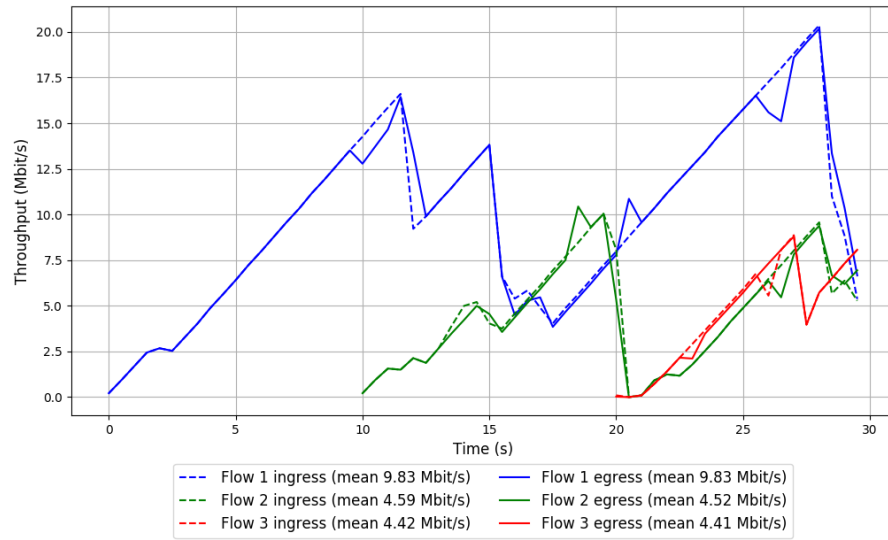


```
Run 2: Statistics of LEDBAT

Start at: 2017-11-17 08:31:10
End at: 2017-11-17 08:31:40

# Below is generated by plot.py at 2017-11-17 11:35:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.29 Mbit/s
95th percentile per-packet one-way delay: 64.741 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 9.83 Mbit/s
95th percentile per-packet one-way delay: 64.783 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.52 Mbit/s
95th percentile per-packet one-way delay: 64.538 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 4.41 Mbit/s
95th percentile per-packet one-way delay: 64.452 ms
Loss rate: 0.16%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-11-17 08:43:46

End at: 2017-11-17 08:44:16

Below is generated by plot.py at 2017-11-17 11:35:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.97 Mbit/s

95th percentile per-packet one-way delay: 63.723 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 7.18 Mbit/s

95th percentile per-packet one-way delay: 63.858 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 12.33 Mbit/s

95th percentile per-packet one-way delay: 63.527 ms

Loss rate: 0.00%

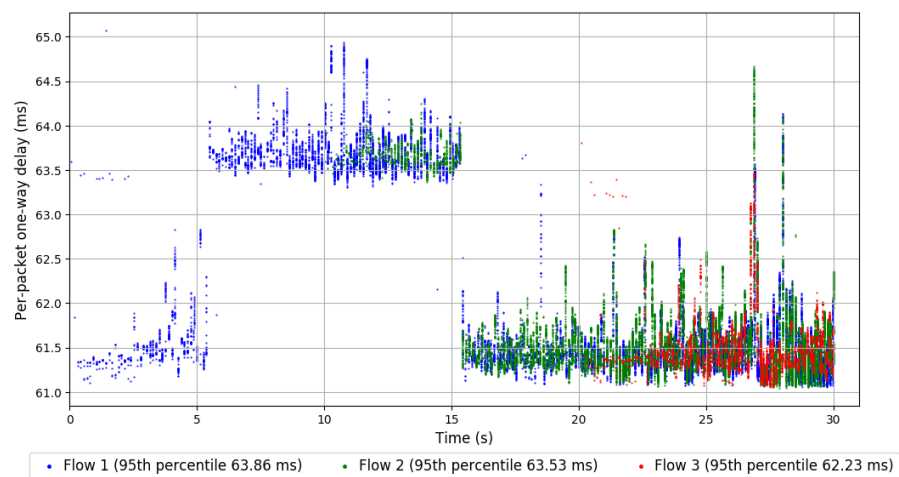
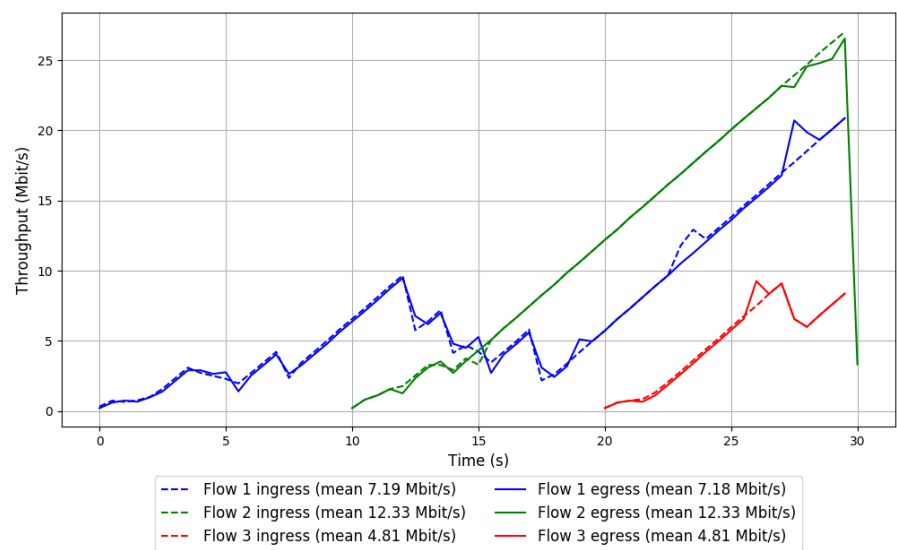
-- Flow 3:

Average throughput: 4.81 Mbit/s

95th percentile per-packet one-way delay: 62.230 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-17 08:56:02

End at: 2017-11-17 08:56:32

Below is generated by plot.py at 2017-11-17 11:35:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 28.14 Mbit/s

95th percentile per-packet one-way delay: 64.248 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 16.62 Mbit/s

95th percentile per-packet one-way delay: 64.411 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 15.26 Mbit/s

95th percentile per-packet one-way delay: 64.115 ms

Loss rate: 0.00%

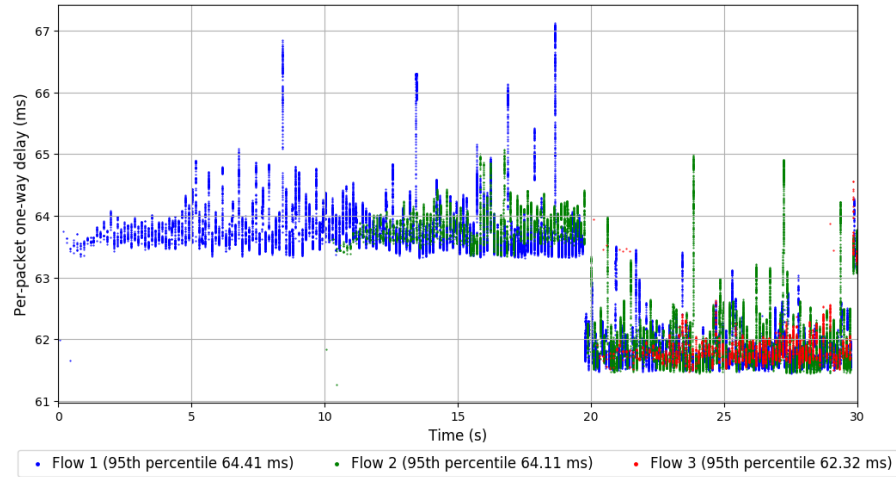
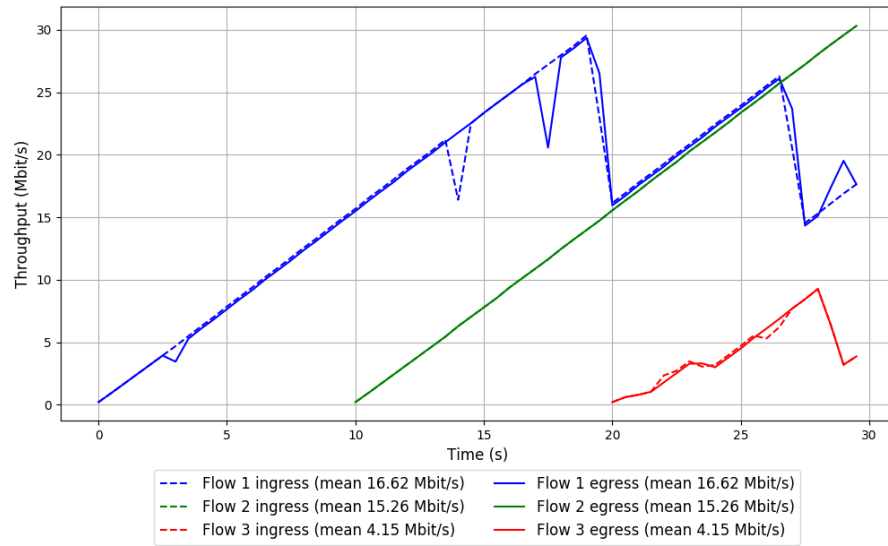
-- Flow 3:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 62.323 ms

Loss rate: 0.06%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-11-17 09:08:22

End at: 2017-11-17 09:08:52

Below is generated by plot.py at 2017-11-17 11:35:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.88 Mbit/s

95th percentile per-packet one-way delay: 63.969 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 5.17 Mbit/s

95th percentile per-packet one-way delay: 64.039 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 6.49 Mbit/s

95th percentile per-packet one-way delay: 63.893 ms

Loss rate: 0.11%

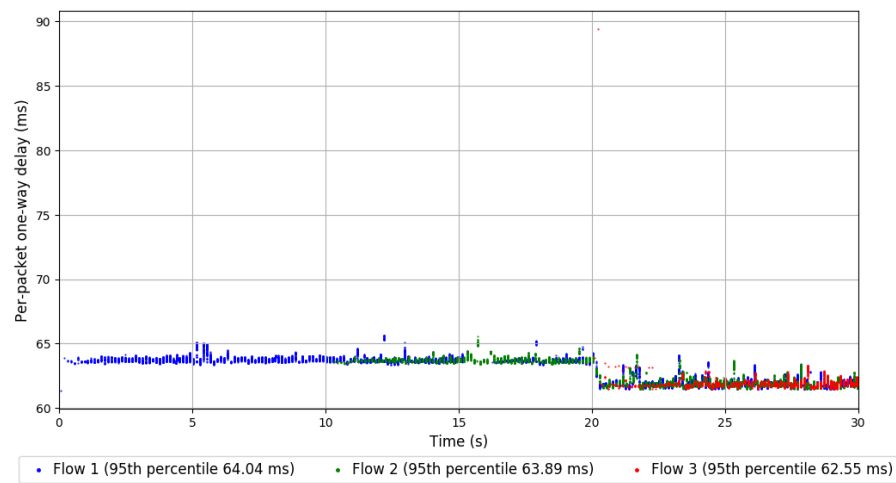
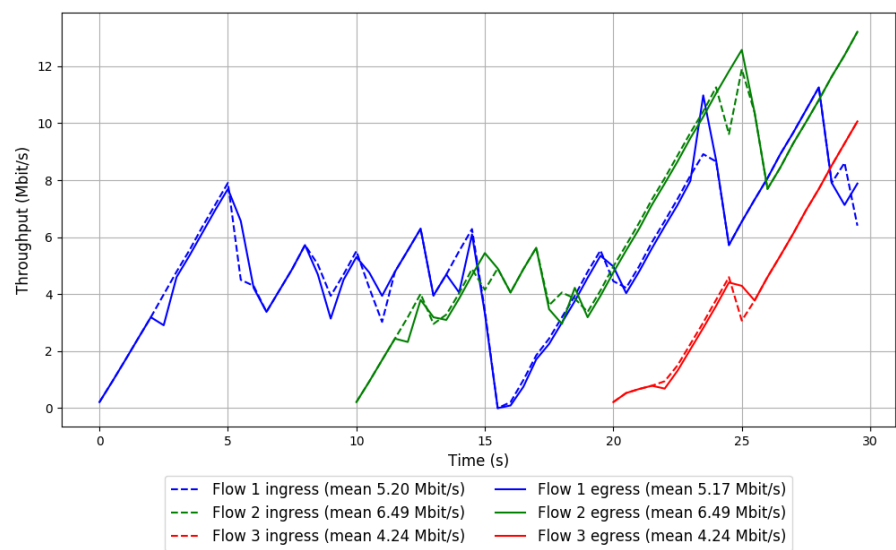
-- Flow 3:

Average throughput: 4.24 Mbit/s

95th percentile per-packet one-way delay: 62.546 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-17 09:20:26

End at: 2017-11-17 09:20:56

Below is generated by plot.py at 2017-11-17 11:35:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.14 Mbit/s

95th percentile per-packet one-way delay: 64.605 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 14.30 Mbit/s

95th percentile per-packet one-way delay: 64.619 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 5.35 Mbit/s

95th percentile per-packet one-way delay: 64.878 ms

Loss rate: 0.54%

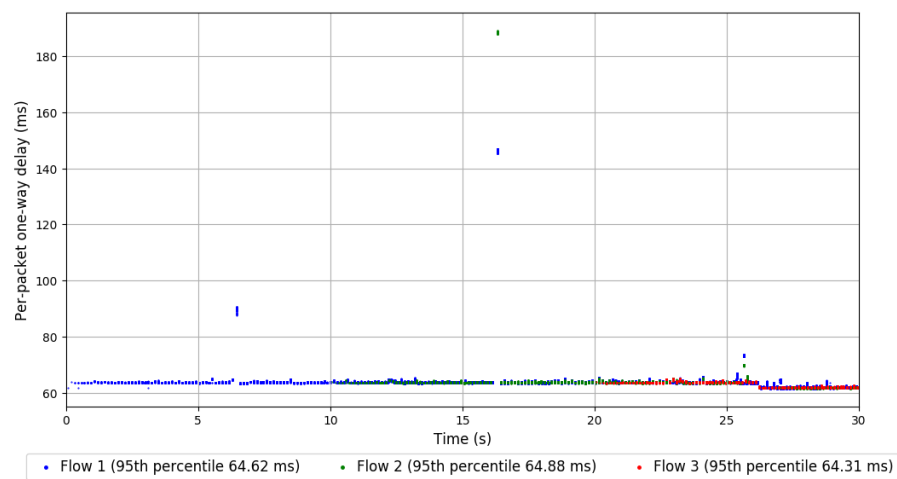
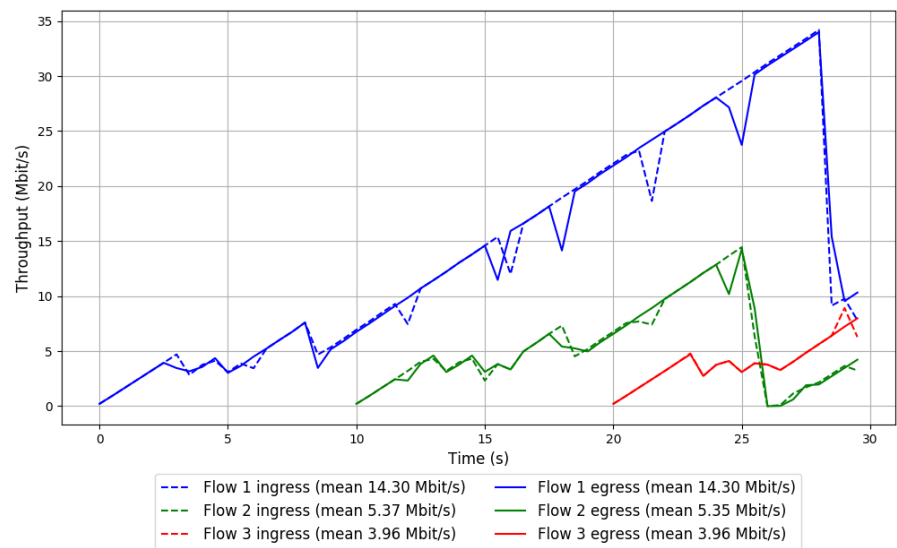
-- Flow 3:

Average throughput: 3.96 Mbit/s

95th percentile per-packet one-way delay: 64.309 ms

Loss rate: 0.09%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-11-17 09:32:33

End at: 2017-11-17 09:33:03

Below is generated by plot.py at 2017-11-17 11:35:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 16.77 Mbit/s

95th percentile per-packet one-way delay: 63.742 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 9.38 Mbit/s

95th percentile per-packet one-way delay: 63.767 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 7.44 Mbit/s

95th percentile per-packet one-way delay: 63.468 ms

Loss rate: 0.02%

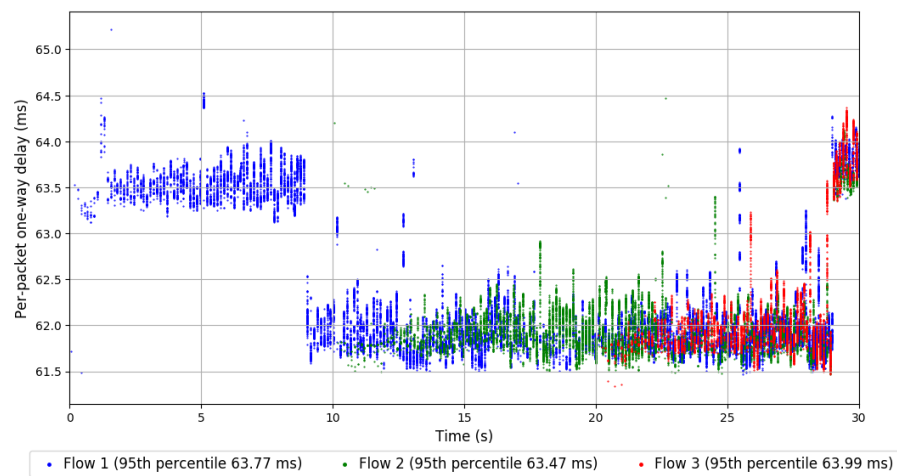
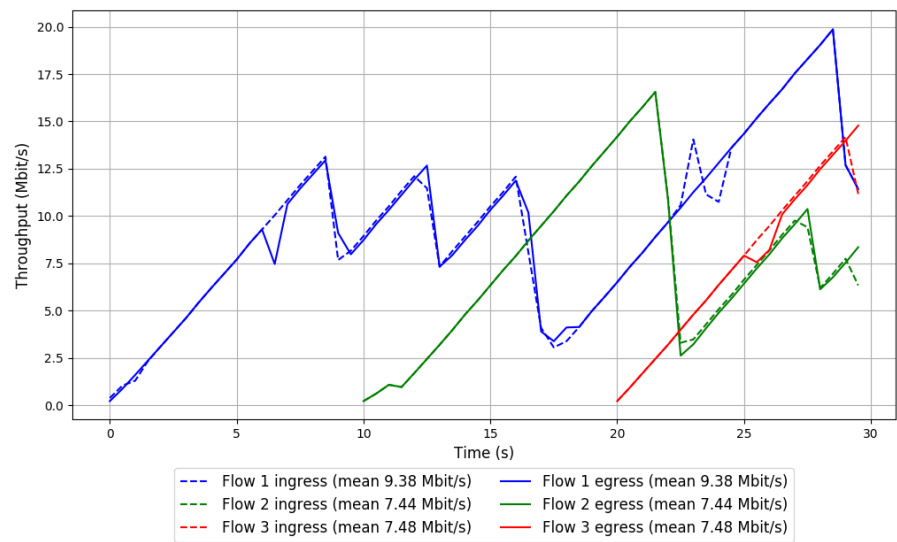
-- Flow 3:

Average throughput: 7.48 Mbit/s

95th percentile per-packet one-way delay: 63.989 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-17 09:44:48

End at: 2017-11-17 09:45:18

Below is generated by plot.py at 2017-11-17 11:35:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.21 Mbit/s

95th percentile per-packet one-way delay: 64.467 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 64.458 ms

Loss rate: 1.25%

-- Flow 2:

Average throughput: 9.02 Mbit/s

95th percentile per-packet one-way delay: 64.466 ms

Loss rate: 0.05%

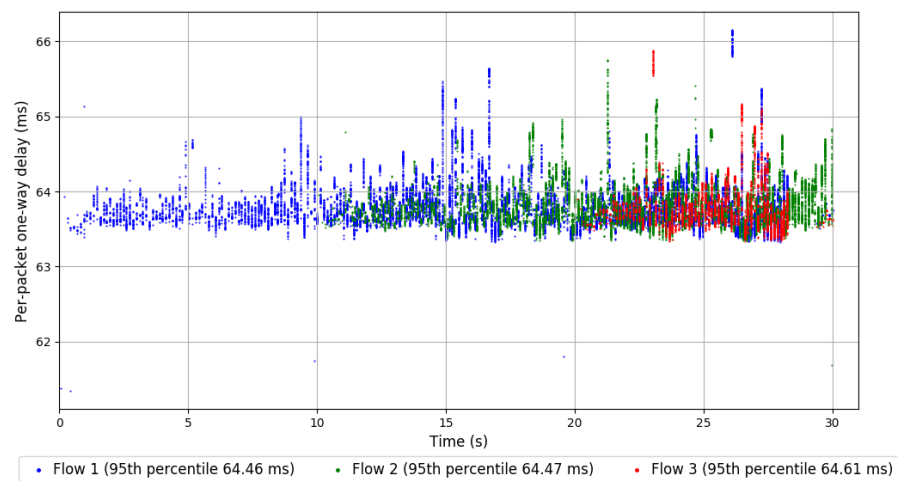
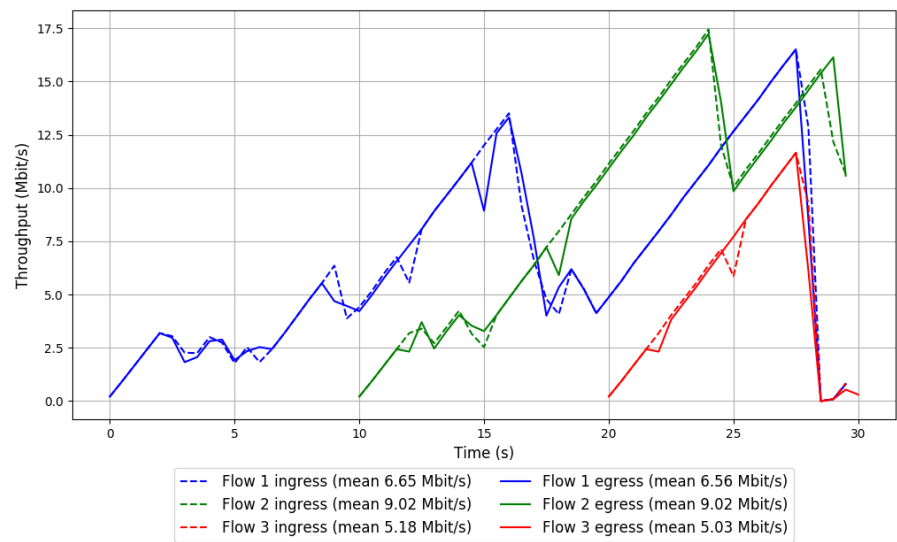
-- Flow 3:

Average throughput: 5.03 Mbit/s

95th percentile per-packet one-way delay: 64.608 ms

Loss rate: 3.05%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-17 09:57:30

End at: 2017-11-17 09:58:00

Below is generated by plot.py at 2017-11-17 11:35:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.68 Mbit/s

95th percentile per-packet one-way delay: 64.327 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 4.42 Mbit/s

95th percentile per-packet one-way delay: 64.283 ms

Loss rate: 1.97%

-- Flow 2:

Average throughput: 5.11 Mbit/s

95th percentile per-packet one-way delay: 64.321 ms

Loss rate: 0.69%

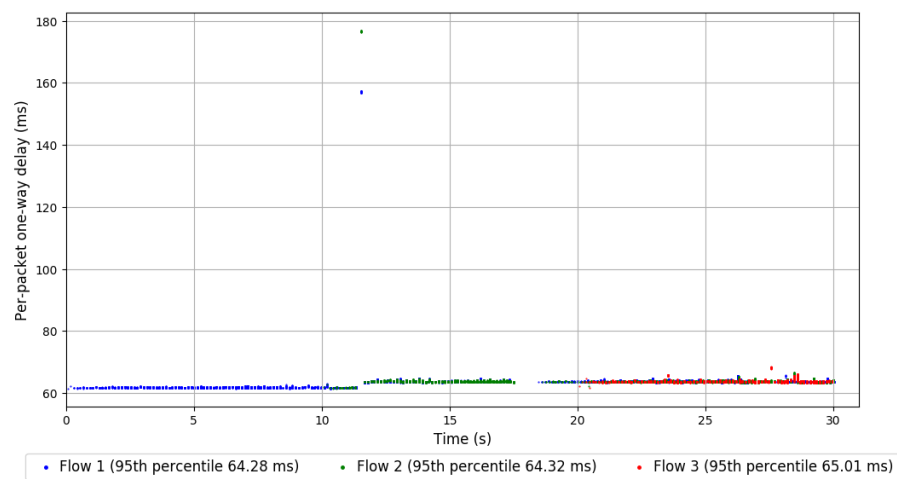
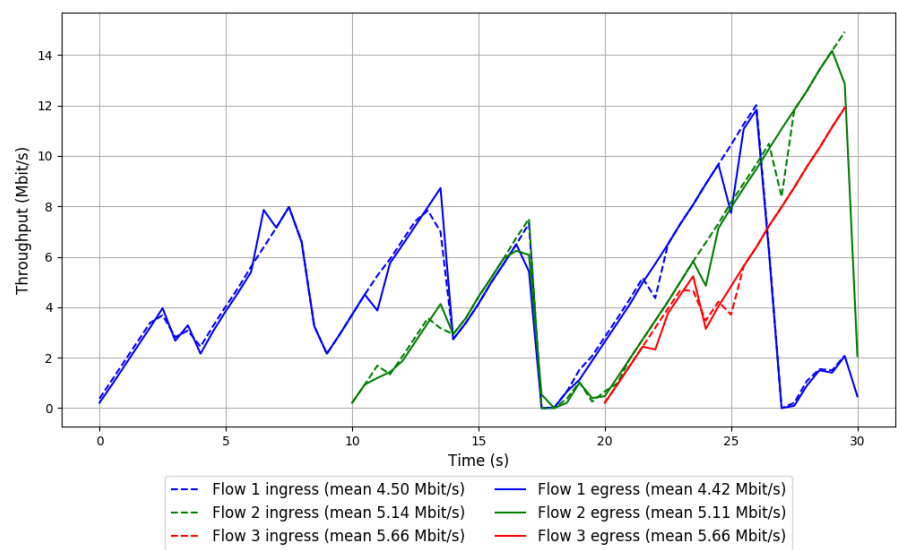
-- Flow 3:

Average throughput: 5.66 Mbit/s

95th percentile per-packet one-way delay: 65.008 ms

Loss rate: 0.04%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-11-17 10:09:43

End at: 2017-11-17 10:10:13

Below is generated by plot.py at 2017-11-17 11:35:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.47 Mbit/s

95th percentile per-packet one-way delay: 64.050 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 4.65 Mbit/s

95th percentile per-packet one-way delay: 63.932 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 8.55 Mbit/s

95th percentile per-packet one-way delay: 64.115 ms

Loss rate: 0.05%

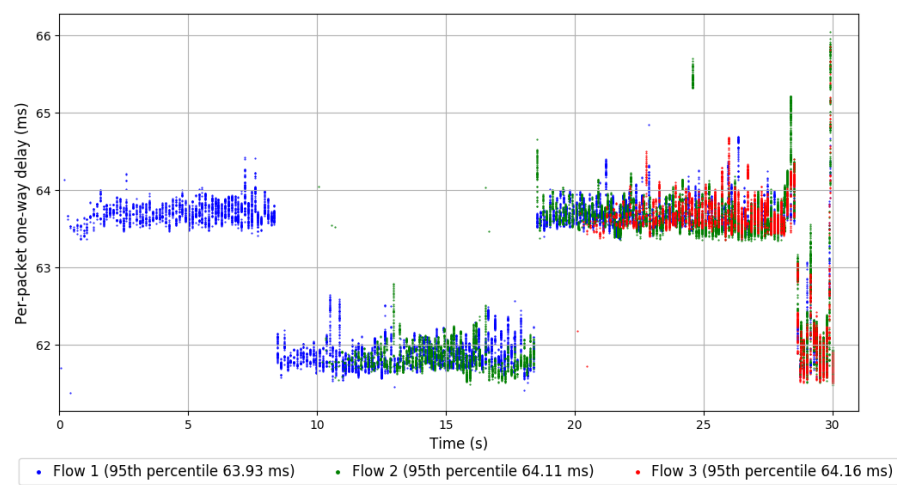
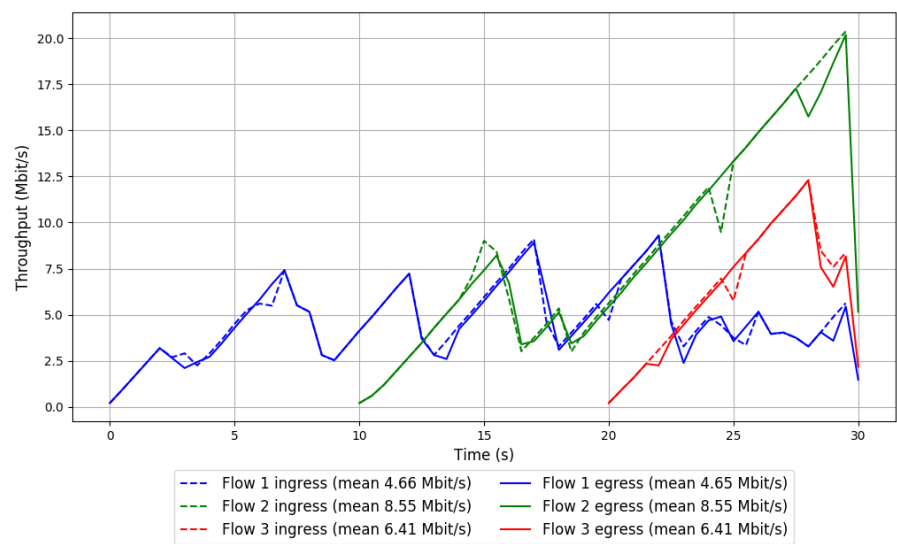
-- Flow 3:

Average throughput: 6.41 Mbit/s

95th percentile per-packet one-way delay: 64.163 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

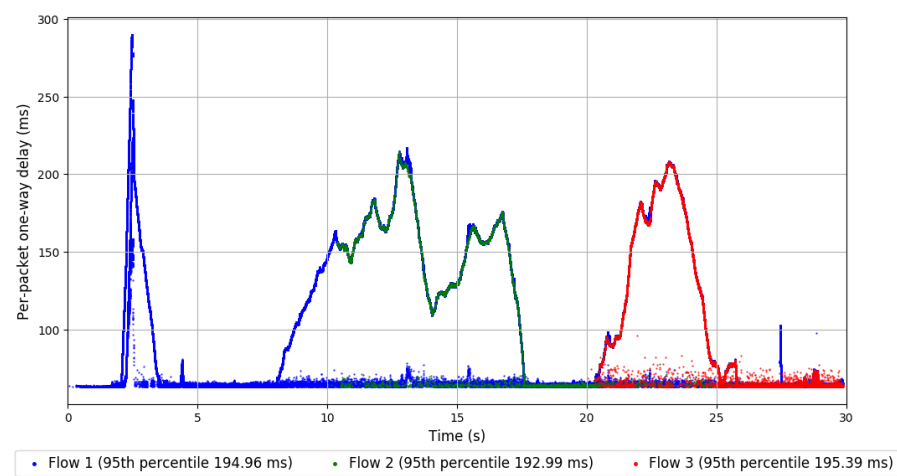
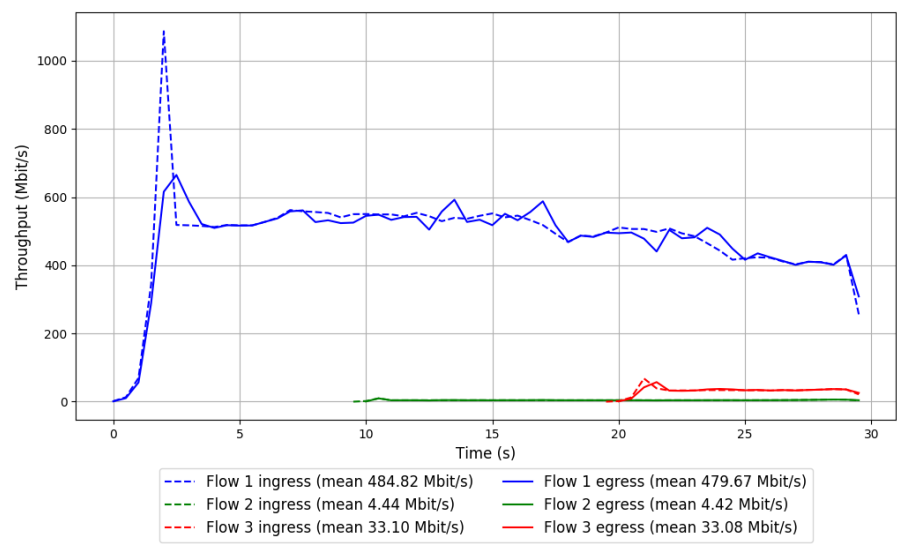


```
Run 1: Statistics of PCC

Start at: 2017-11-17 08:11:10
End at: 2017-11-17 08:11:40

# Below is generated by plot.py at 2017-11-17 11:41:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 493.48 Mbit/s
95th percentile per-packet one-way delay: 194.971 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 479.67 Mbit/s
95th percentile per-packet one-way delay: 194.955 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 4.42 Mbit/s
95th percentile per-packet one-way delay: 192.989 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 33.08 Mbit/s
95th percentile per-packet one-way delay: 195.386 ms
Loss rate: 0.13%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-11-17 08:23:33

End at: 2017-11-17 08:24:03

Below is generated by plot.py at 2017-11-17 11:42:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 538.07 Mbit/s

95th percentile per-packet one-way delay: 155.402 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 491.67 Mbit/s

95th percentile per-packet one-way delay: 156.749 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 35.88 Mbit/s

95th percentile per-packet one-way delay: 142.274 ms

Loss rate: 0.11%

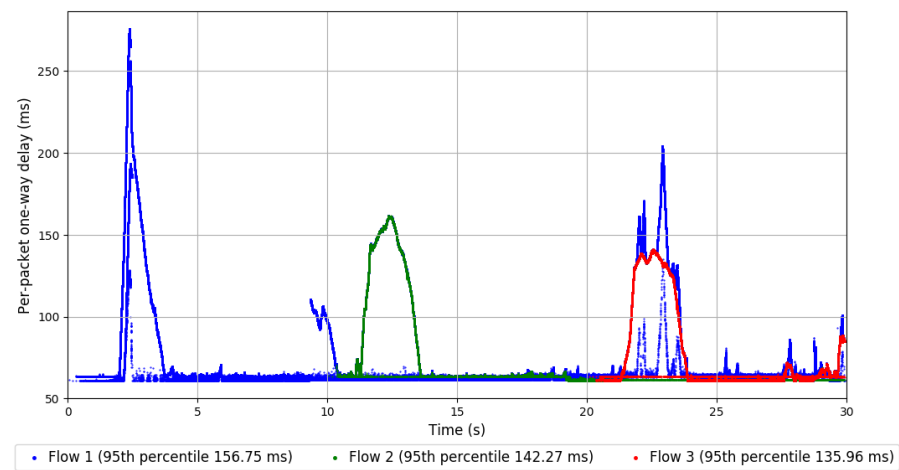
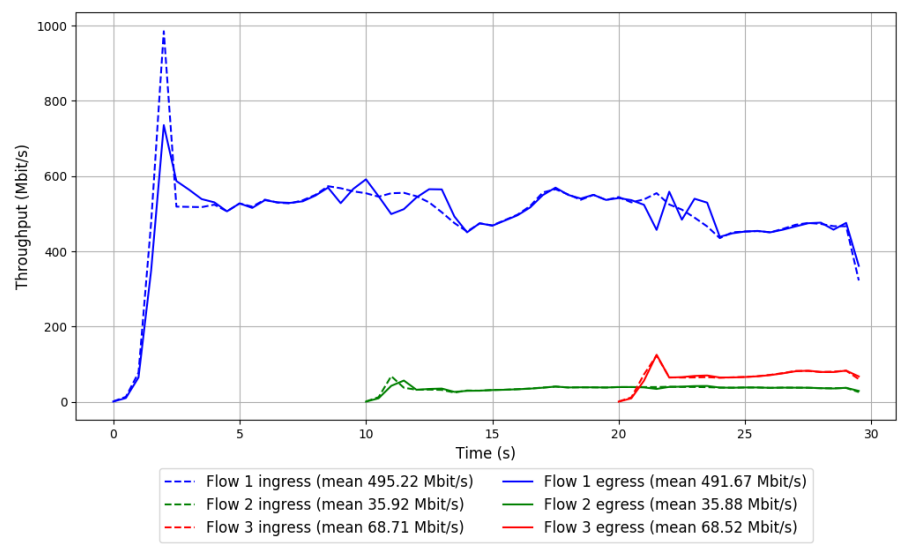
-- Flow 3:

Average throughput: 68.52 Mbit/s

95th percentile per-packet one-way delay: 135.955 ms

Loss rate: 0.26%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-11-17 08:35:57

End at: 2017-11-17 08:36:27

Below is generated by plot.py at 2017-11-17 11:42:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 539.01 Mbit/s

95th percentile per-packet one-way delay: 194.060 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 495.81 Mbit/s

95th percentile per-packet one-way delay: 193.528 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 34.19 Mbit/s

95th percentile per-packet one-way delay: 194.595 ms

Loss rate: 0.96%

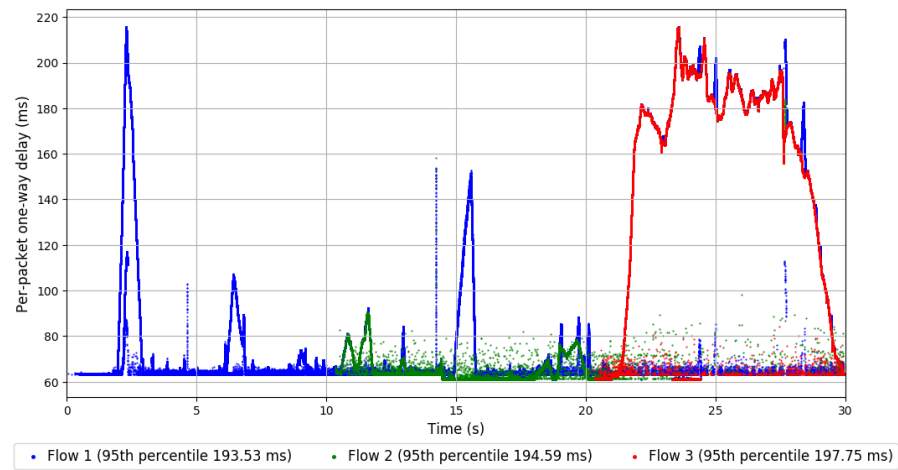
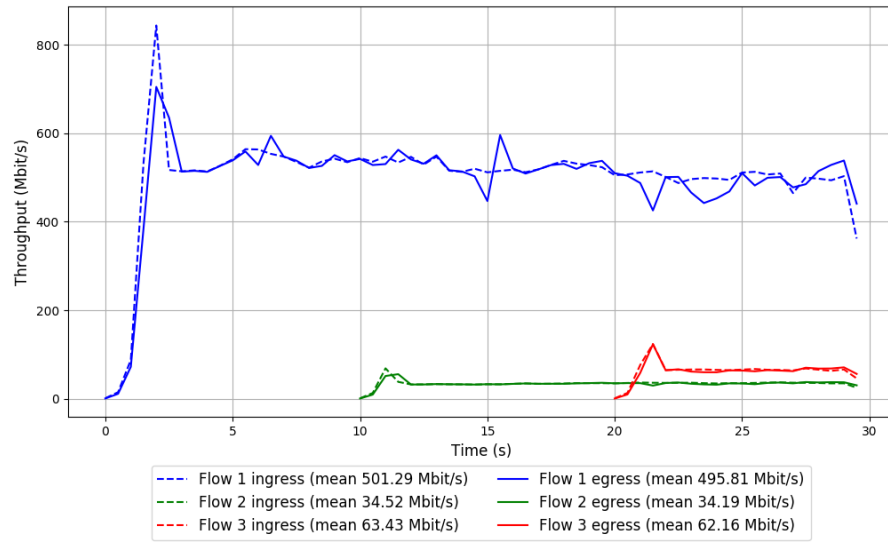
-- Flow 3:

Average throughput: 62.16 Mbit/s

95th percentile per-packet one-way delay: 197.748 ms

Loss rate: 2.01%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-11-17 08:48:39

End at: 2017-11-17 08:49:09

Below is generated by plot.py at 2017-11-17 11:42:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 552.70 Mbit/s

95th percentile per-packet one-way delay: 183.767 ms

Loss rate: 1.60%

-- Flow 1:

Average throughput: 499.13 Mbit/s

95th percentile per-packet one-way delay: 183.643 ms

Loss rate: 1.62%

-- Flow 2:

Average throughput: 65.07 Mbit/s

95th percentile per-packet one-way delay: 183.780 ms

Loss rate: 1.21%

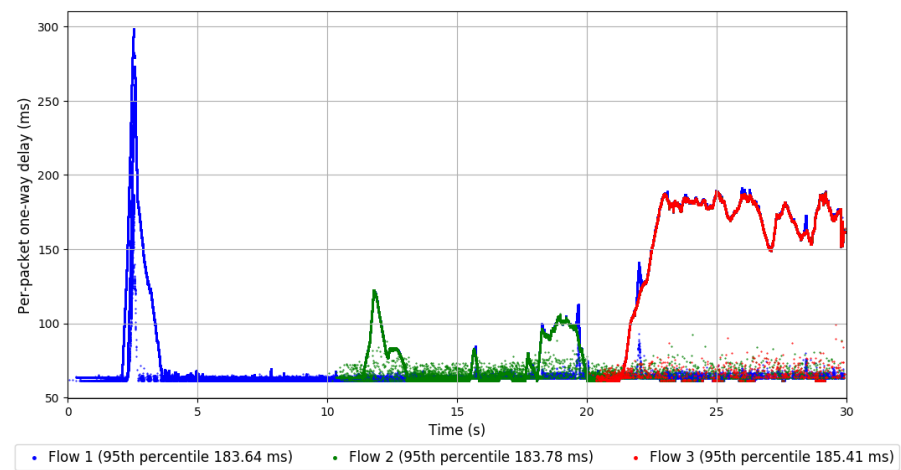
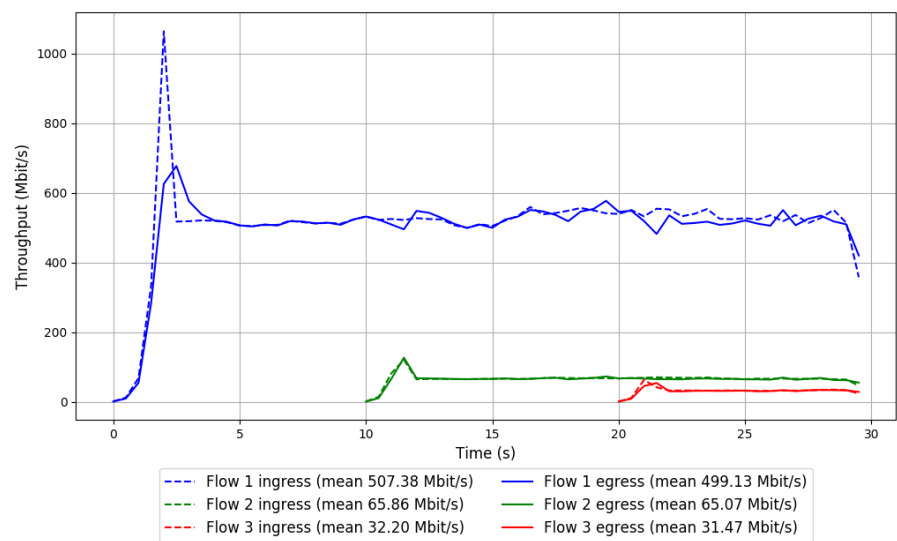
-- Flow 3:

Average throughput: 31.47 Mbit/s

95th percentile per-packet one-way delay: 185.413 ms

Loss rate: 2.27%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-11-17 09:00:58

End at: 2017-11-17 09:01:28

Below is generated by plot.py at 2017-11-17 11:43:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 564.19 Mbit/s

95th percentile per-packet one-way delay: 190.061 ms

Loss rate: 2.85%

-- Flow 1:

Average throughput: 485.82 Mbit/s

95th percentile per-packet one-way delay: 189.618 ms

Loss rate: 2.54%

-- Flow 2:

Average throughput: 62.75 Mbit/s

95th percentile per-packet one-way delay: 189.812 ms

Loss rate: 3.49%

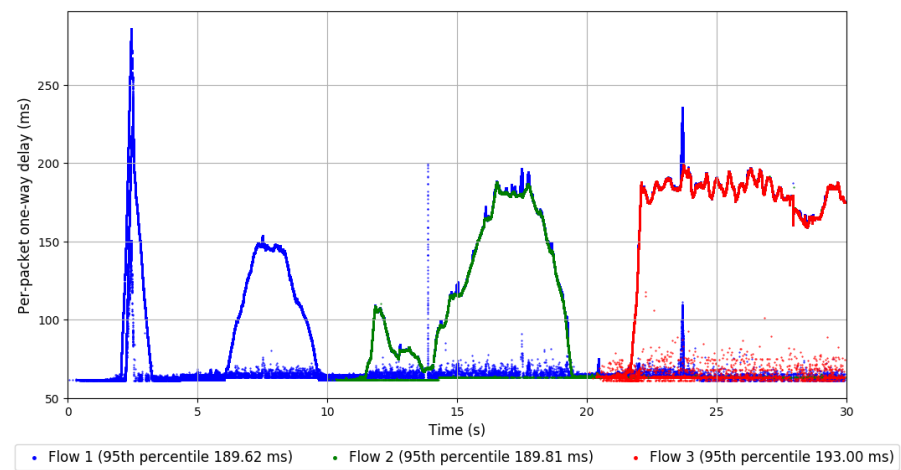
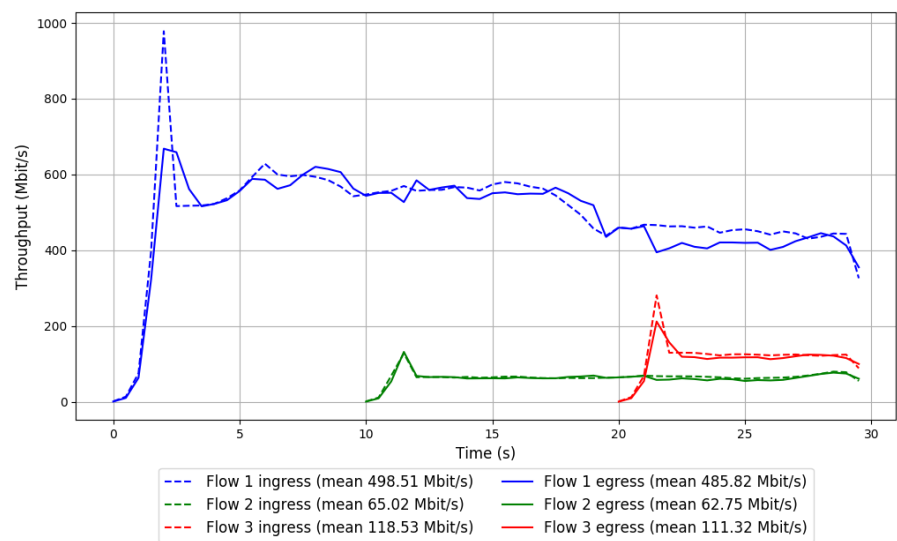
-- Flow 3:

Average throughput: 111.32 Mbit/s

95th percentile per-packet one-way delay: 192.998 ms

Loss rate: 6.11%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-11-17 09:13:12

End at: 2017-11-17 09:13:42

Below is generated by plot.py at 2017-11-17 11:43:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 525.30 Mbit/s

95th percentile per-packet one-way delay: 198.773 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 444.02 Mbit/s

95th percentile per-packet one-way delay: 199.171 ms

Loss rate: 1.33%

-- Flow 2:

Average throughput: 62.54 Mbit/s

95th percentile per-packet one-way delay: 200.515 ms

Loss rate: 1.23%

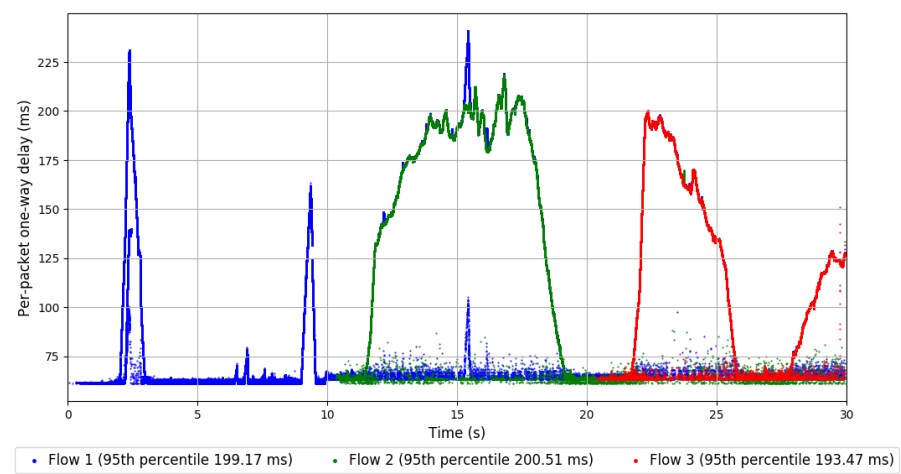
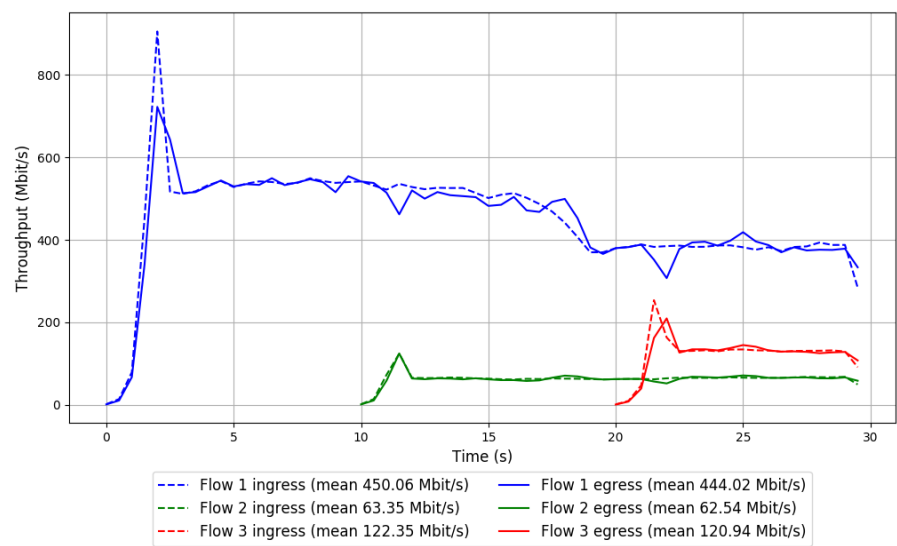
-- Flow 3:

Average throughput: 120.94 Mbit/s

95th percentile per-packet one-way delay: 193.465 ms

Loss rate: 1.11%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-17 09:25:11

End at: 2017-11-17 09:25:41

Below is generated by plot.py at 2017-11-17 11:44:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 541.29 Mbit/s

95th percentile per-packet one-way delay: 196.799 ms

Loss rate: 1.87%

-- Flow 1:

Average throughput: 460.23 Mbit/s

95th percentile per-packet one-way delay: 196.107 ms

Loss rate: 1.87%

-- Flow 2:

Average throughput: 119.74 Mbit/s

95th percentile per-packet one-way delay: 198.546 ms

Loss rate: 1.90%

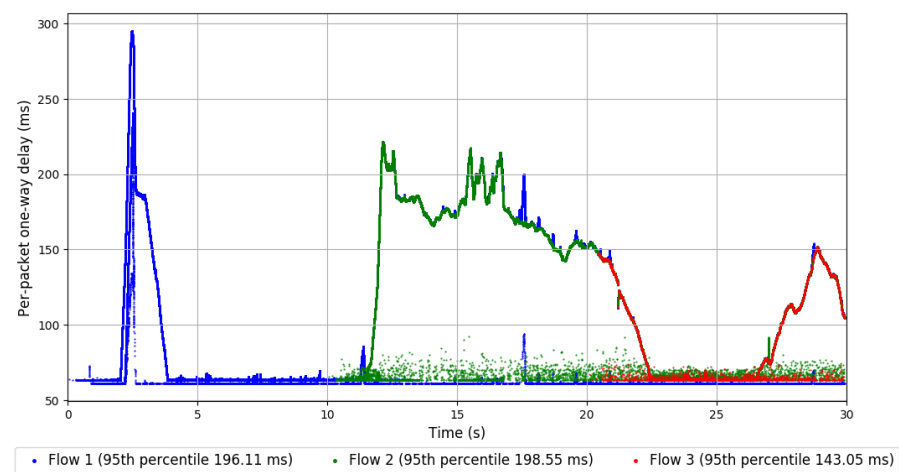
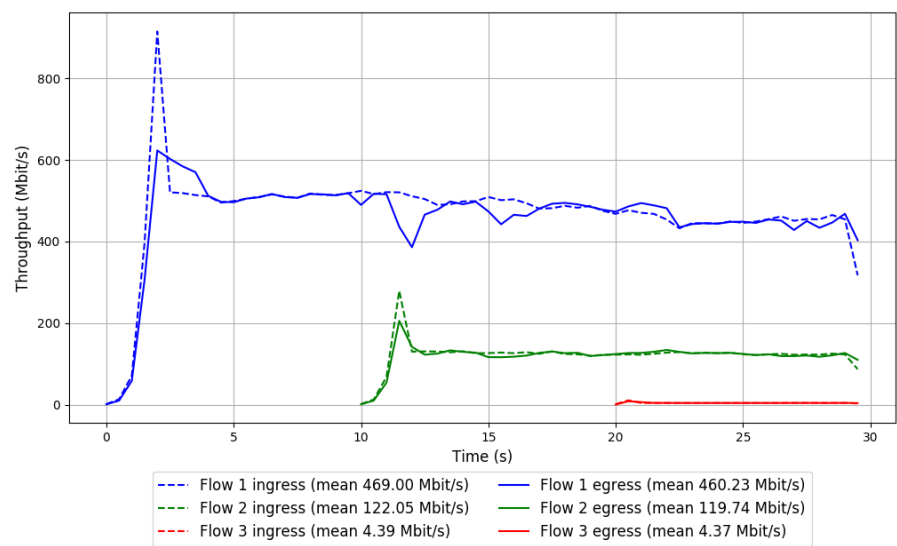
-- Flow 3:

Average throughput: 4.37 Mbit/s

95th percentile per-packet one-way delay: 143.048 ms

Loss rate: 0.42%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-11-17 09:37:24

End at: 2017-11-17 09:37:54

Below is generated by plot.py at 2017-11-17 11:44:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 559.09 Mbit/s

95th percentile per-packet one-way delay: 191.277 ms

Loss rate: 1.47%

-- Flow 1:

Average throughput: 495.63 Mbit/s

95th percentile per-packet one-way delay: 191.932 ms

Loss rate: 1.51%

-- Flow 2:

Average throughput: 65.63 Mbit/s

95th percentile per-packet one-way delay: 188.513 ms

Loss rate: 1.23%

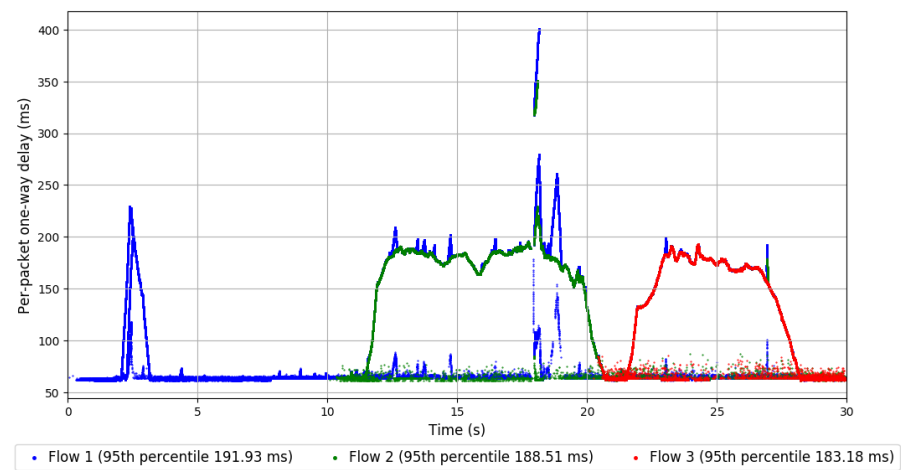
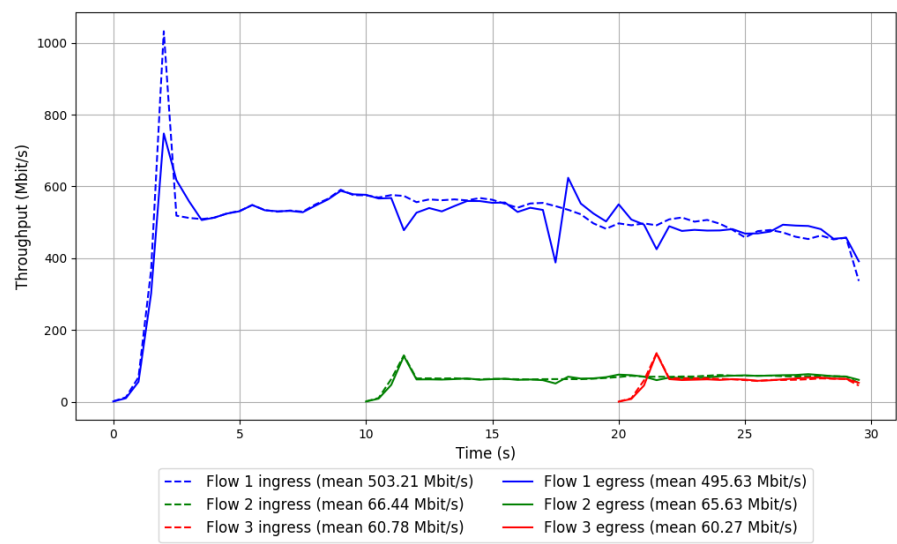
-- Flow 3:

Average throughput: 60.27 Mbit/s

95th percentile per-packet one-way delay: 183.178 ms

Loss rate: 0.90%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-11-17 09:49:39

End at: 2017-11-17 09:50:09

Below is generated by plot.py at 2017-11-17 11:50:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 563.74 Mbit/s

95th percentile per-packet one-way delay: 191.373 ms

Loss rate: 3.27%

-- Flow 1:

Average throughput: 534.66 Mbit/s

95th percentile per-packet one-way delay: 191.390 ms

Loss rate: 3.15%

-- Flow 2:

Average throughput: 15.74 Mbit/s

95th percentile per-packet one-way delay: 189.151 ms

Loss rate: 3.33%

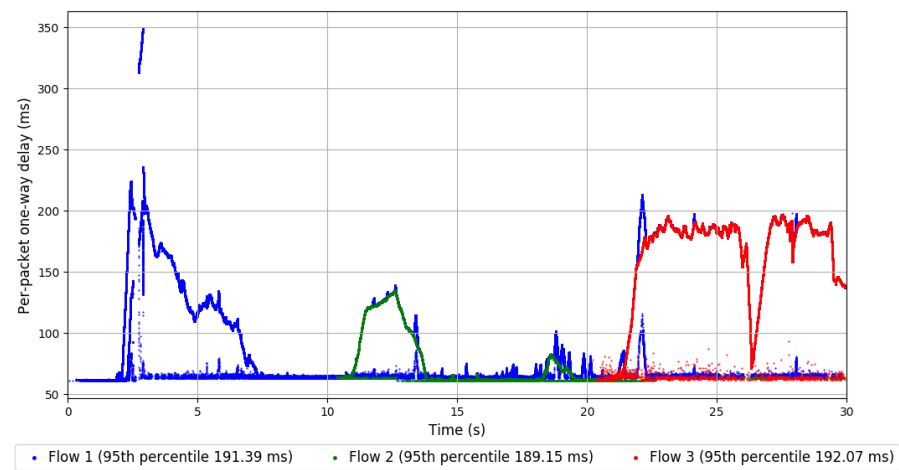
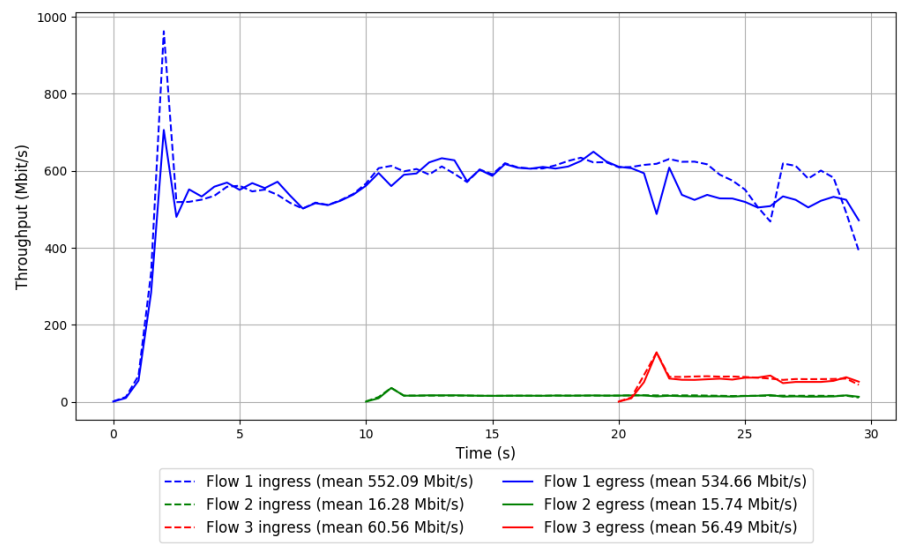
-- Flow 3:

Average throughput: 56.49 Mbit/s

95th percentile per-packet one-way delay: 192.074 ms

Loss rate: 6.72%

Run 9: Report of PCC — Data Link

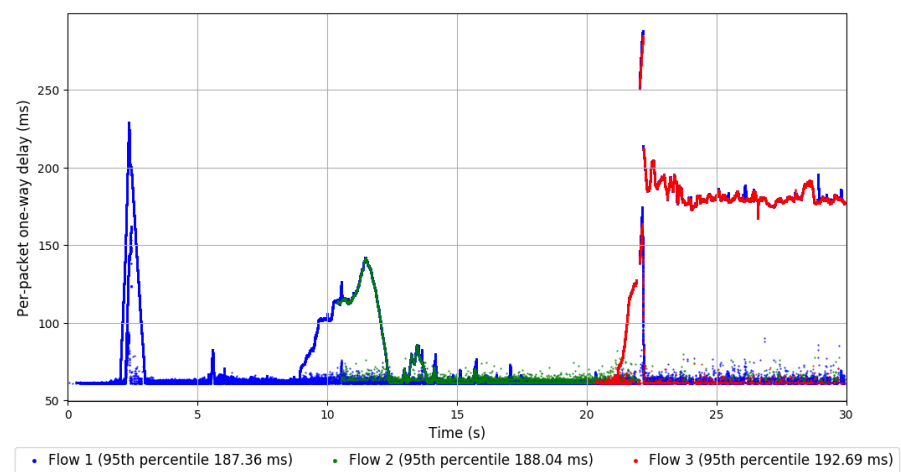
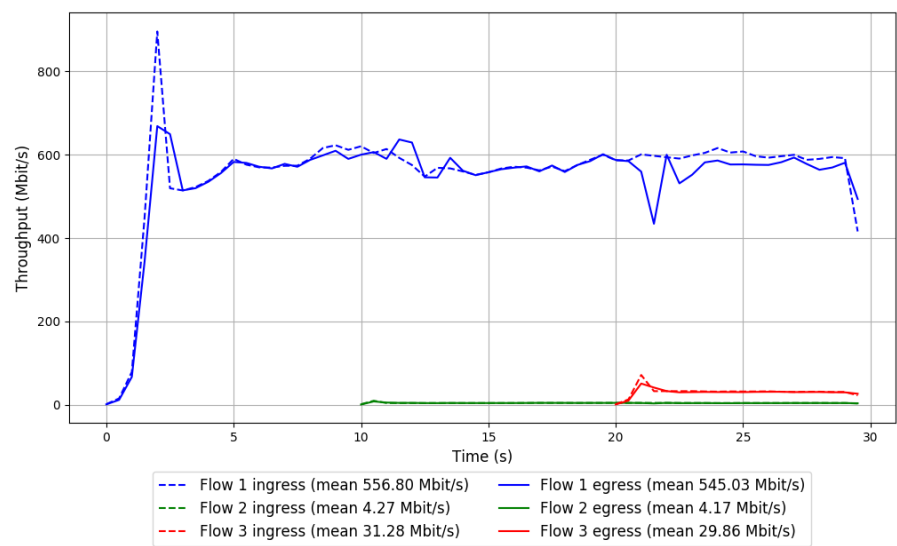


```
Run 10: Statistics of PCC

Start at: 2017-11-17 10:02:20
End at: 2017-11-17 10:02:50

# Below is generated by plot.py at 2017-11-17 11:51:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 557.61 Mbit/s
95th percentile per-packet one-way delay: 187.604 ms
Loss rate: 2.15%
-- Flow 1:
Average throughput: 545.03 Mbit/s
95th percentile per-packet one-way delay: 187.357 ms
Loss rate: 2.11%
-- Flow 2:
Average throughput: 4.17 Mbit/s
95th percentile per-packet one-way delay: 188.045 ms
Loss rate: 2.42%
-- Flow 3:
Average throughput: 29.86 Mbit/s
95th percentile per-packet one-way delay: 192.687 ms
Loss rate: 4.50%
```

Run 10: Report of PCC — Data Link

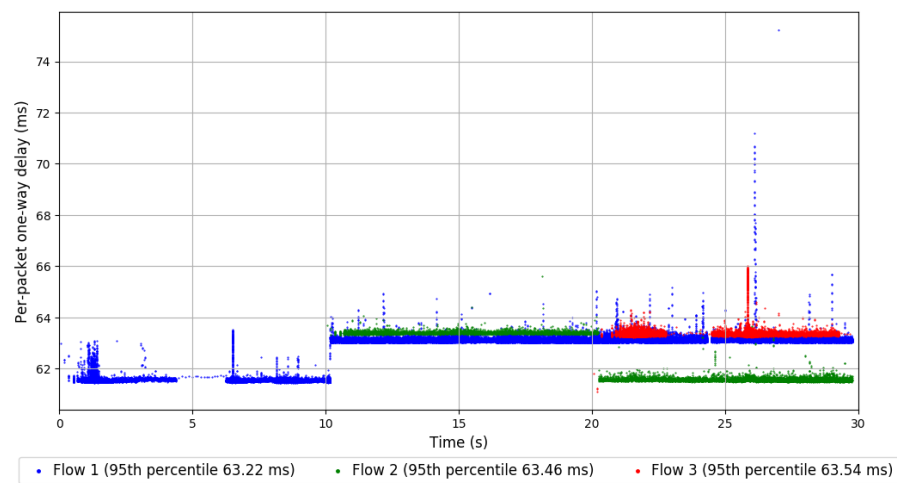
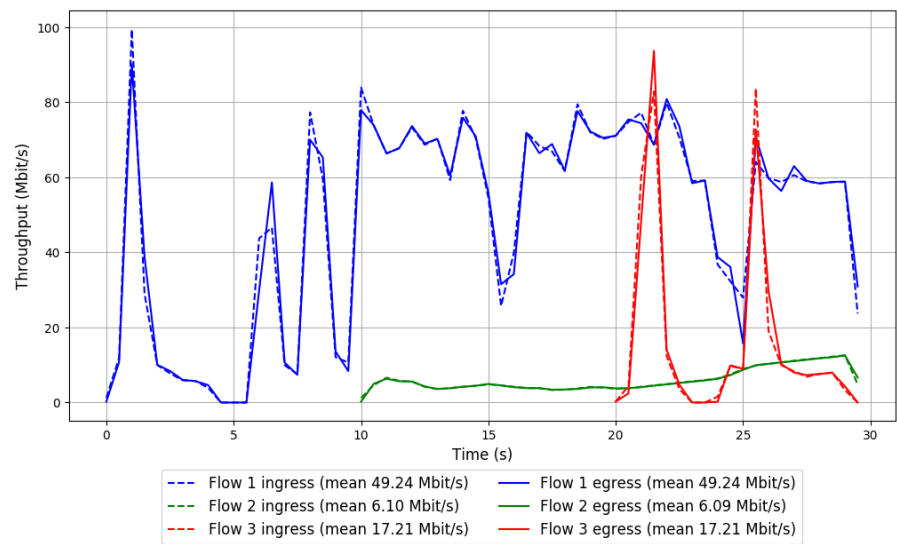


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-11-17 08:21:12
End at: 2017-11-17 08:21:42

# Below is generated by plot.py at 2017-11-17 11:51:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.85 Mbit/s
95th percentile per-packet one-way delay: 63.381 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 49.24 Mbit/s
95th percentile per-packet one-way delay: 63.218 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.09 Mbit/s
95th percentile per-packet one-way delay: 63.461 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 17.21 Mbit/s
95th percentile per-packet one-way delay: 63.540 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-11-17 08:33:35

End at: 2017-11-17 08:34:05

Below is generated by plot.py at 2017-11-17 11:51:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.28 Mbit/s

95th percentile per-packet one-way delay: 63.473 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 50.57 Mbit/s

95th percentile per-packet one-way delay: 63.395 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.61 Mbit/s

95th percentile per-packet one-way delay: 63.574 ms

Loss rate: 0.00%

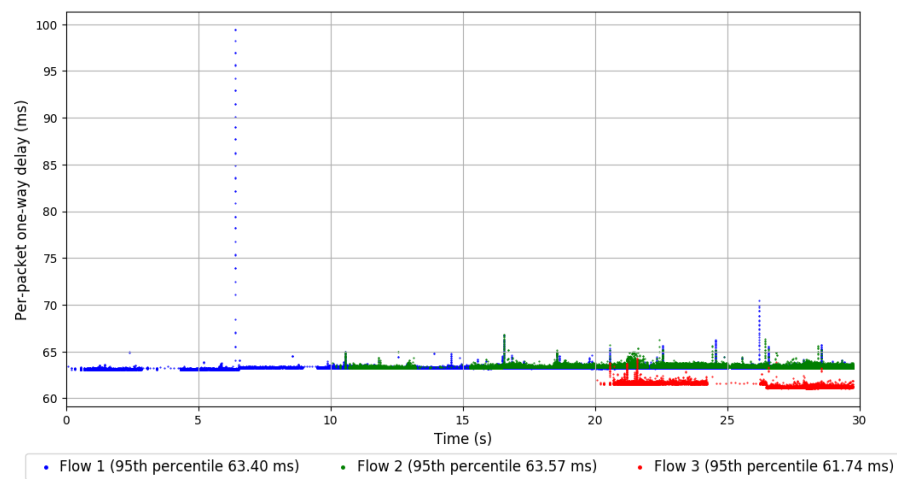
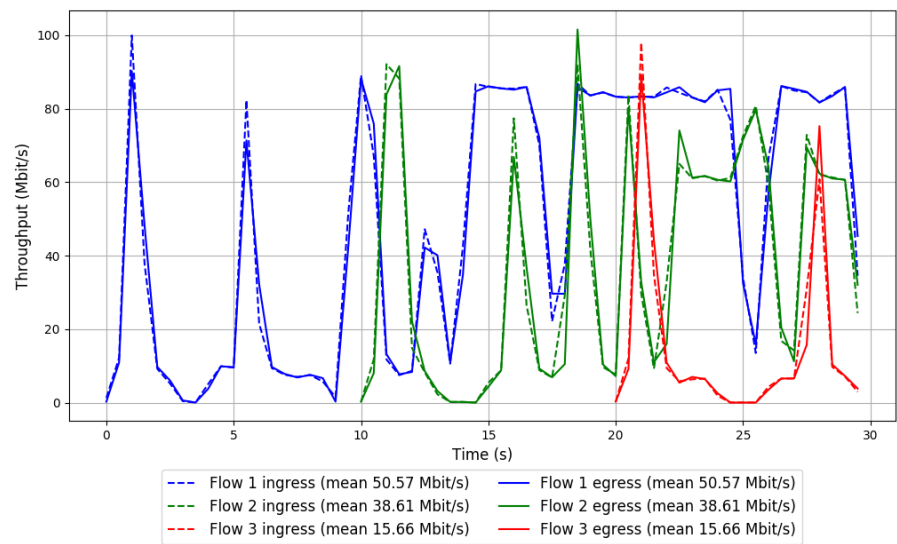
-- Flow 3:

Average throughput: 15.66 Mbit/s

95th percentile per-packet one-way delay: 61.741 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-17 08:46:15

End at: 2017-11-17 08:46:45

Below is generated by plot.py at 2017-11-17 11:51:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.59 Mbit/s

95th percentile per-packet one-way delay: 63.341 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 47.28 Mbit/s

95th percentile per-packet one-way delay: 61.645 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.13 Mbit/s

95th percentile per-packet one-way delay: 63.173 ms

Loss rate: 0.00%

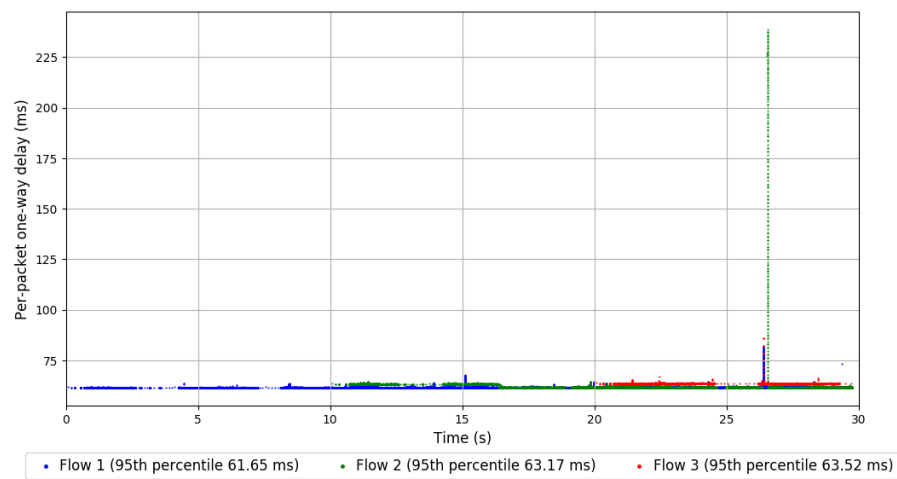
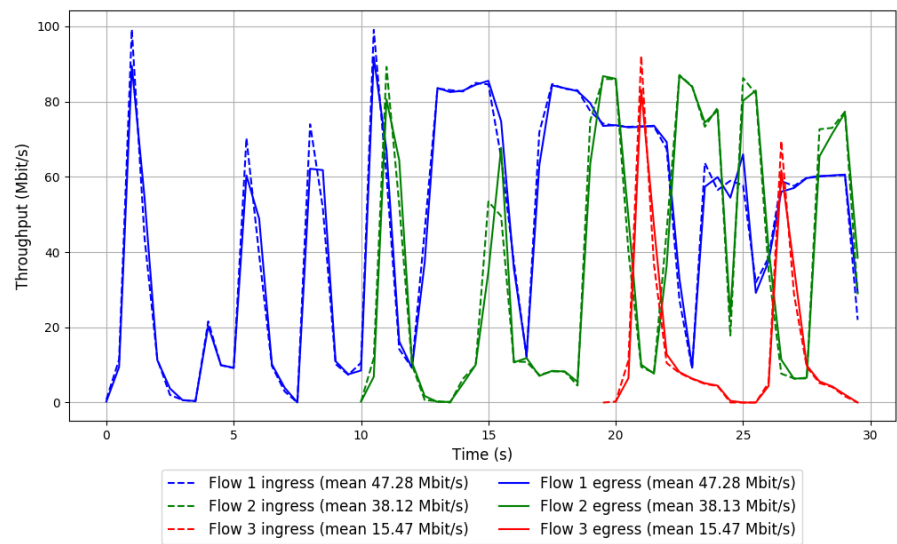
-- Flow 3:

Average throughput: 15.47 Mbit/s

95th percentile per-packet one-way delay: 63.525 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-17 08:58:35

End at: 2017-11-17 08:59:05

Below is generated by plot.py at 2017-11-17 11:51:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.76 Mbit/s

95th percentile per-packet one-way delay: 63.530 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 48.57 Mbit/s

95th percentile per-packet one-way delay: 63.568 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 33.71 Mbit/s

95th percentile per-packet one-way delay: 63.273 ms

Loss rate: 0.00%

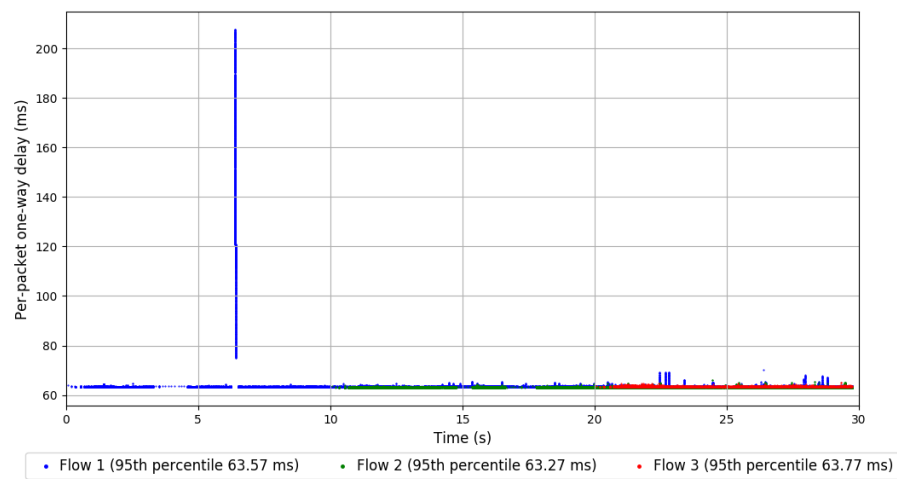
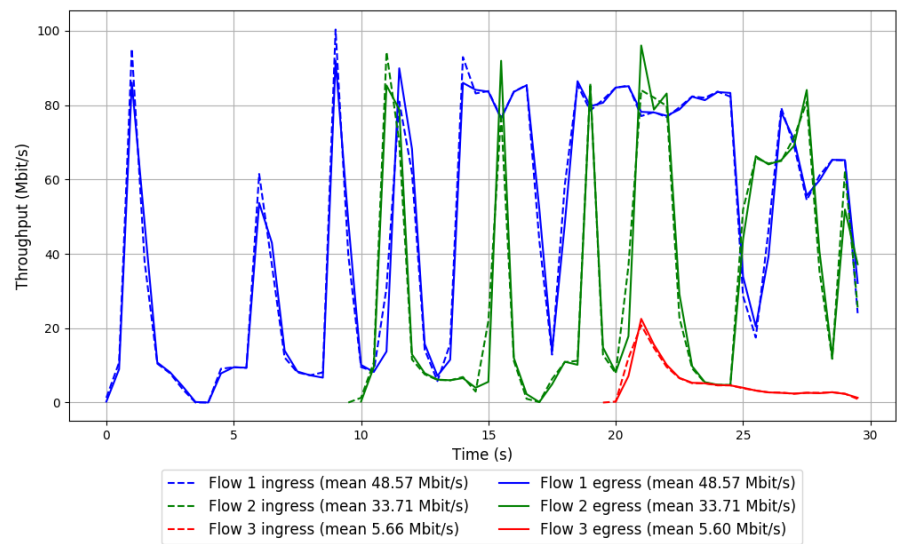
-- Flow 3:

Average throughput: 5.60 Mbit/s

95th percentile per-packet one-way delay: 63.768 ms

Loss rate: 0.97%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-17 09:10:49

End at: 2017-11-17 09:11:19

Below is generated by plot.py at 2017-11-17 11:51:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.84 Mbit/s

95th percentile per-packet one-way delay: 63.430 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 48.94 Mbit/s

95th percentile per-packet one-way delay: 63.424 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 37.46 Mbit/s

95th percentile per-packet one-way delay: 63.356 ms

Loss rate: 0.00%

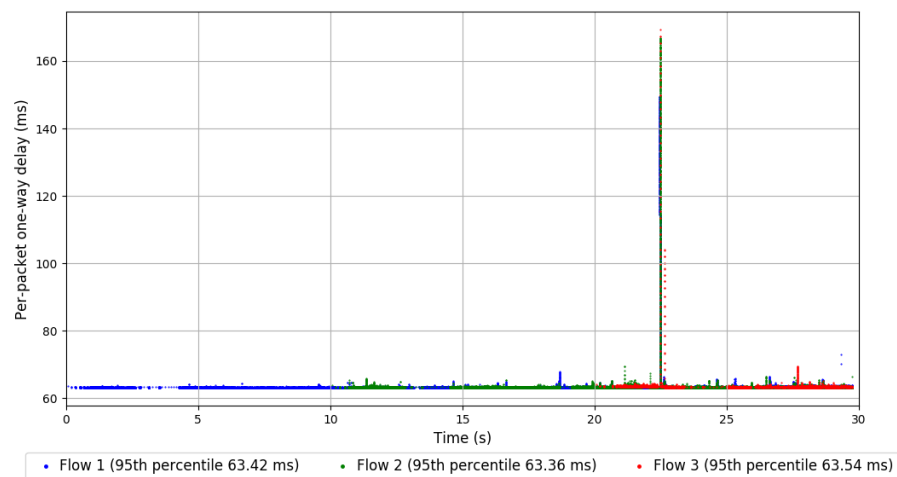
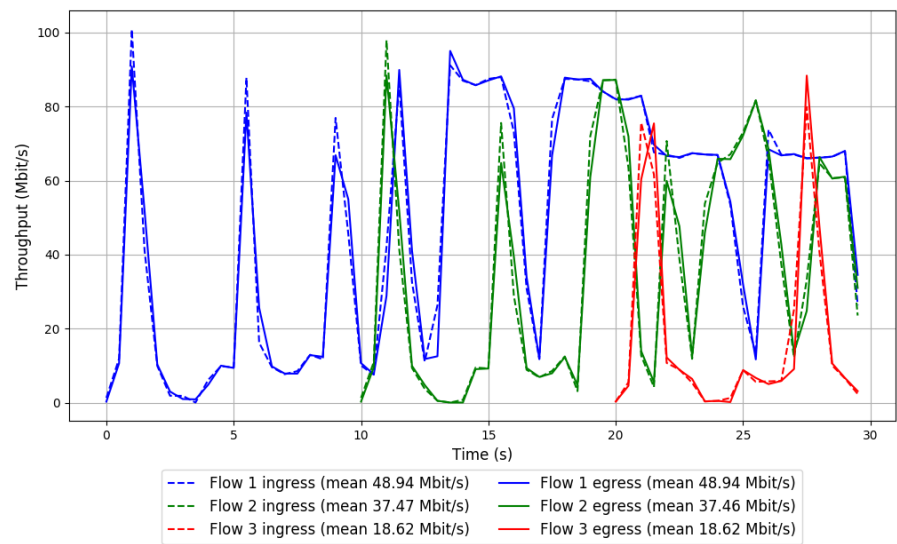
-- Flow 3:

Average throughput: 18.62 Mbit/s

95th percentile per-packet one-way delay: 63.544 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-17 09:22:50

End at: 2017-11-17 09:23:20

Below is generated by plot.py at 2017-11-17 11:51:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.04 Mbit/s

95th percentile per-packet one-way delay: 63.606 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 43.99 Mbit/s

95th percentile per-packet one-way delay: 63.583 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.63 Mbit/s

95th percentile per-packet one-way delay: 64.423 ms

Loss rate: 0.00%

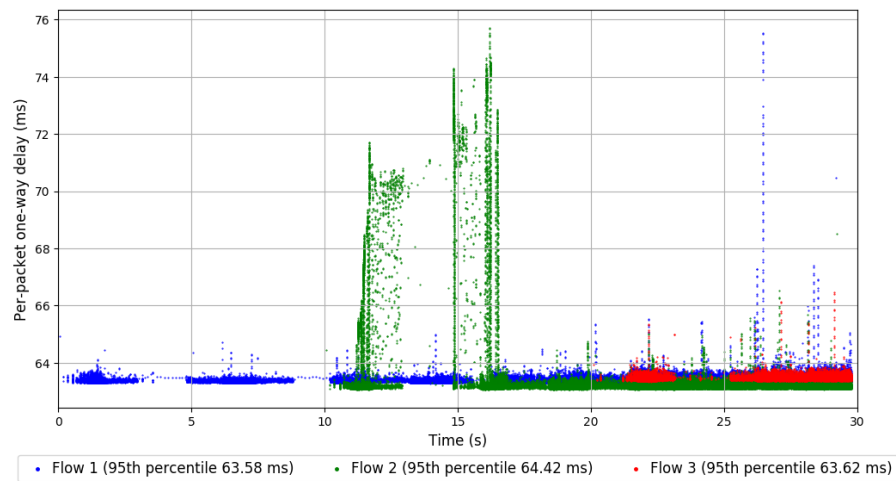
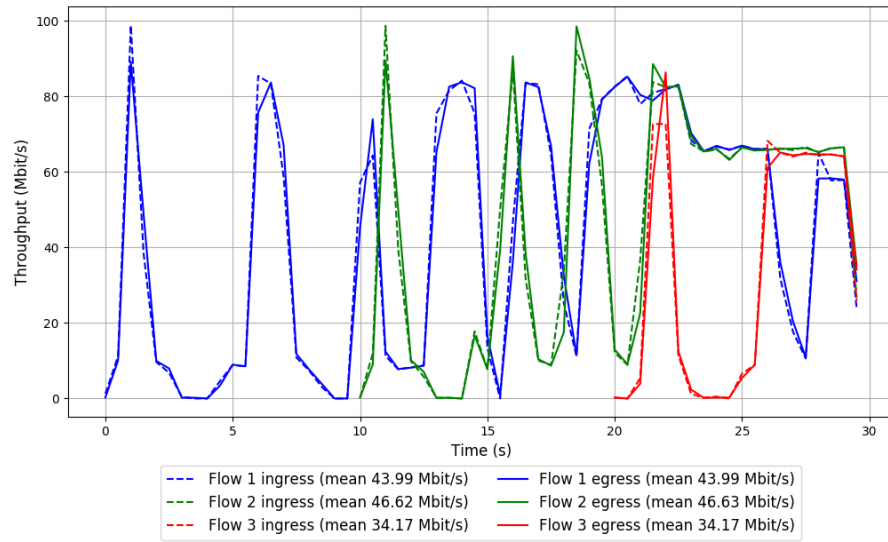
-- Flow 3:

Average throughput: 34.17 Mbit/s

95th percentile per-packet one-way delay: 63.621 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-17 09:35:02

End at: 2017-11-17 09:35:32

Below is generated by plot.py at 2017-11-17 11:51:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.80 Mbit/s

95th percentile per-packet one-way delay: 63.506 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 50.24 Mbit/s

95th percentile per-packet one-way delay: 63.546 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 37.46 Mbit/s

95th percentile per-packet one-way delay: 61.563 ms

Loss rate: 0.00%

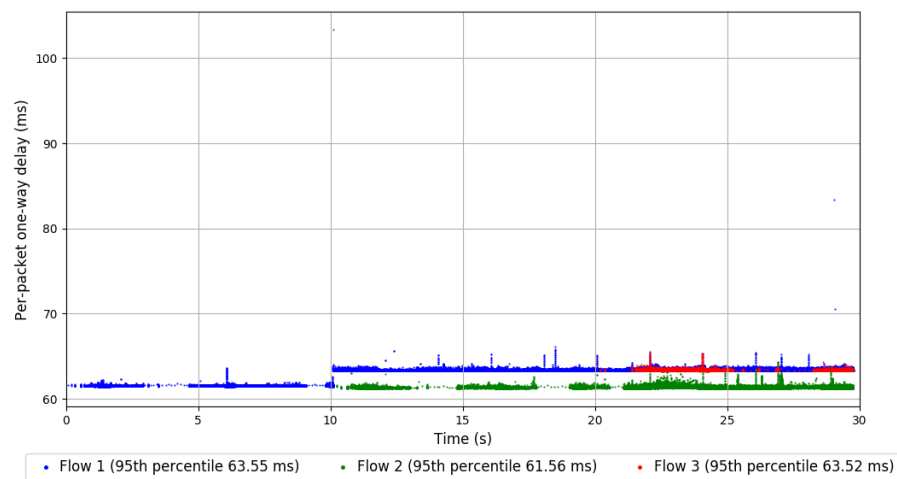
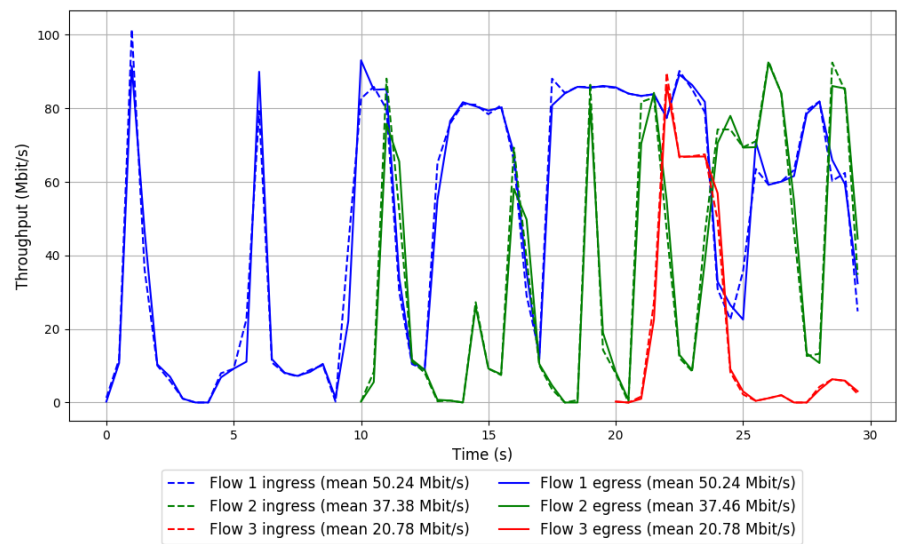
-- Flow 3:

Average throughput: 20.78 Mbit/s

95th percentile per-packet one-way delay: 63.524 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-17 09:47:17

End at: 2017-11-17 09:47:47

Below is generated by plot.py at 2017-11-17 11:51:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.48 Mbit/s

95th percentile per-packet one-way delay: 63.542 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 49.88 Mbit/s

95th percentile per-packet one-way delay: 63.470 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 28.83 Mbit/s

95th percentile per-packet one-way delay: 63.614 ms

Loss rate: 0.00%

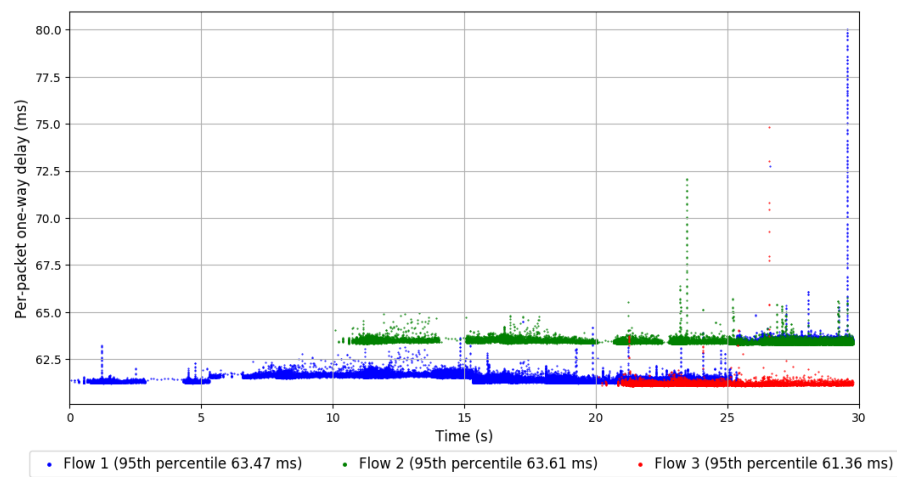
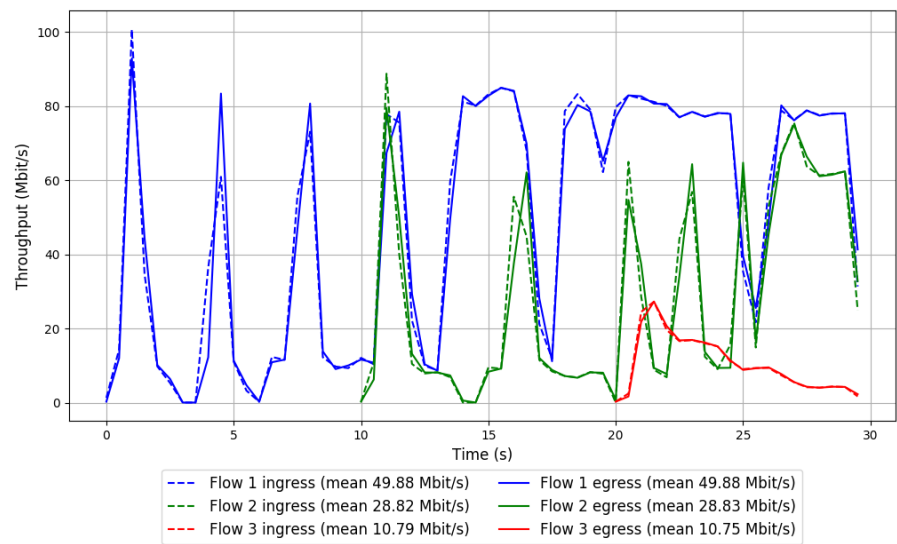
-- Flow 3:

Average throughput: 10.75 Mbit/s

95th percentile per-packet one-way delay: 61.360 ms

Loss rate: 0.35%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-17 09:59:58

End at: 2017-11-17 10:00:28

Below is generated by plot.py at 2017-11-17 11:51:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.68 Mbit/s

95th percentile per-packet one-way delay: 63.491 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 42.29 Mbit/s

95th percentile per-packet one-way delay: 63.355 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 31.49 Mbit/s

95th percentile per-packet one-way delay: 63.563 ms

Loss rate: 0.00%

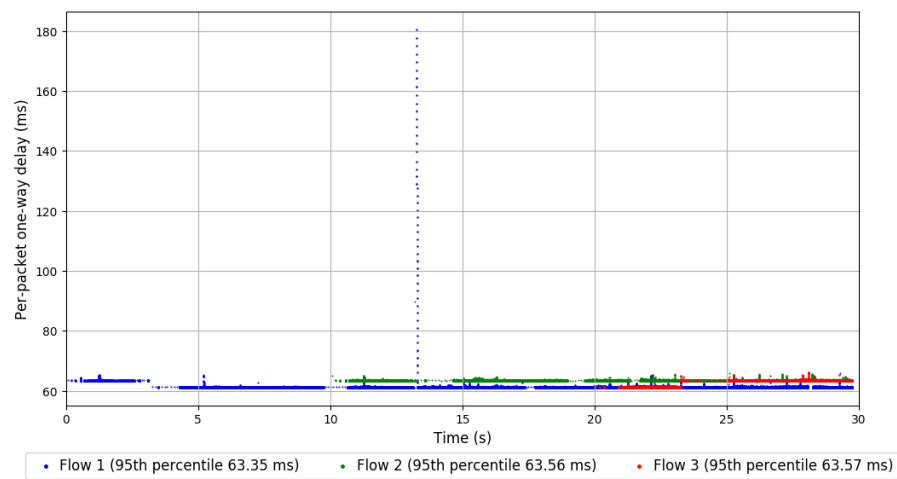
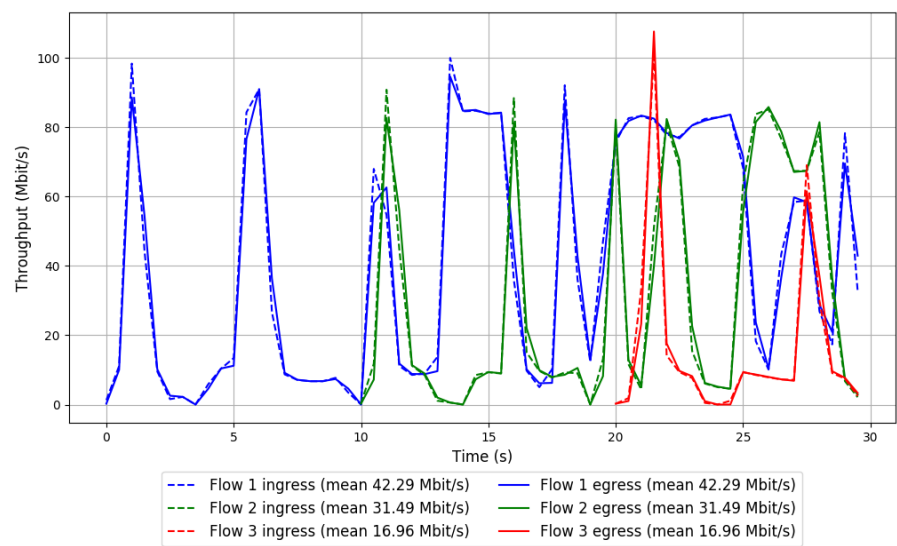
-- Flow 3:

Average throughput: 16.96 Mbit/s

95th percentile per-packet one-way delay: 63.574 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-11-17 10:12:08

End at: 2017-11-17 10:12:38

Below is generated by plot.py at 2017-11-17 11:51:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.85 Mbit/s

95th percentile per-packet one-way delay: 63.581 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 42.28 Mbit/s

95th percentile per-packet one-way delay: 63.490 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 33.25 Mbit/s

95th percentile per-packet one-way delay: 63.608 ms

Loss rate: 0.00%

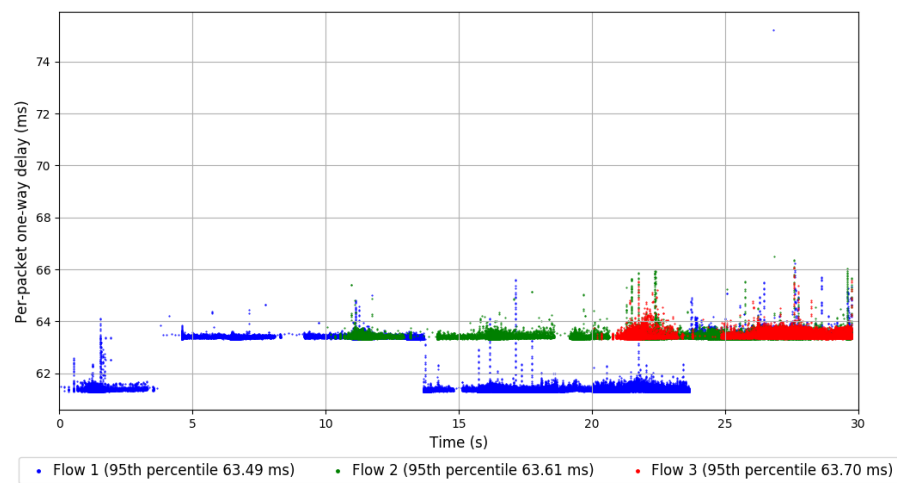
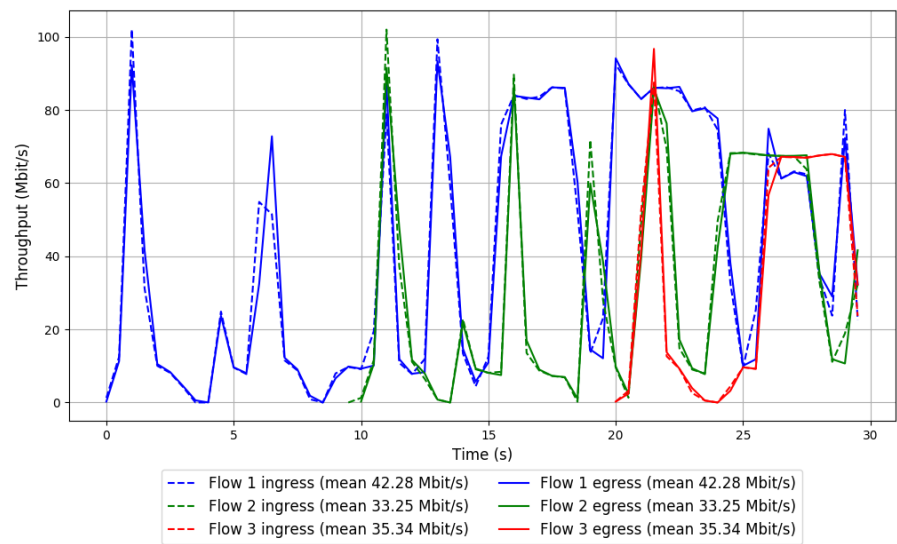
-- Flow 3:

Average throughput: 35.34 Mbit/s

95th percentile per-packet one-way delay: 63.700 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

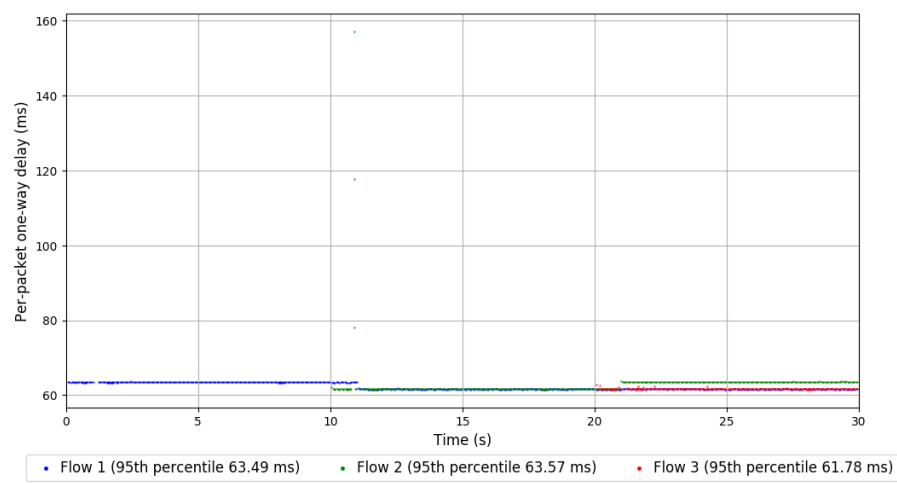
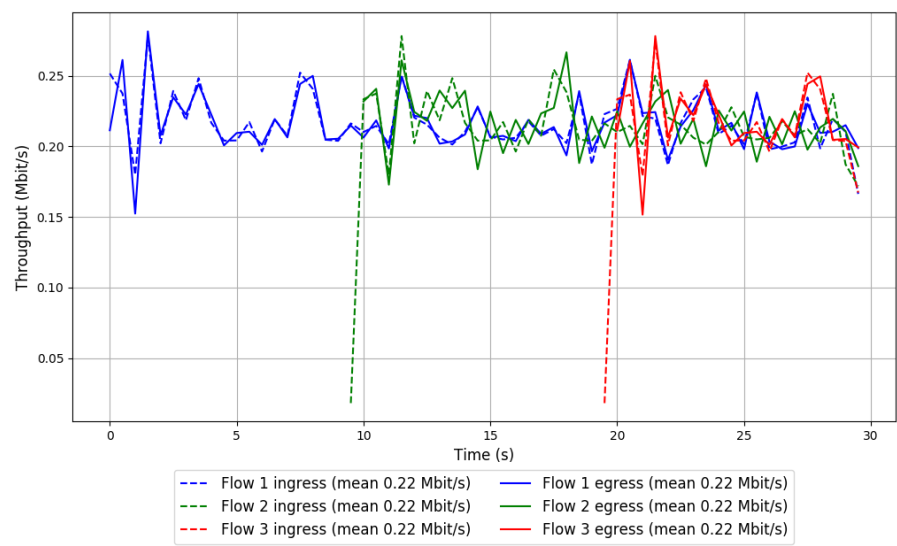


```
Run 1: Statistics of SReAM

Start at: 2017-11-17 08:20:31
End at: 2017-11-17 08:21:01

# Below is generated by plot.py at 2017-11-17 11:51:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.553 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.495 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.572 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.782 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

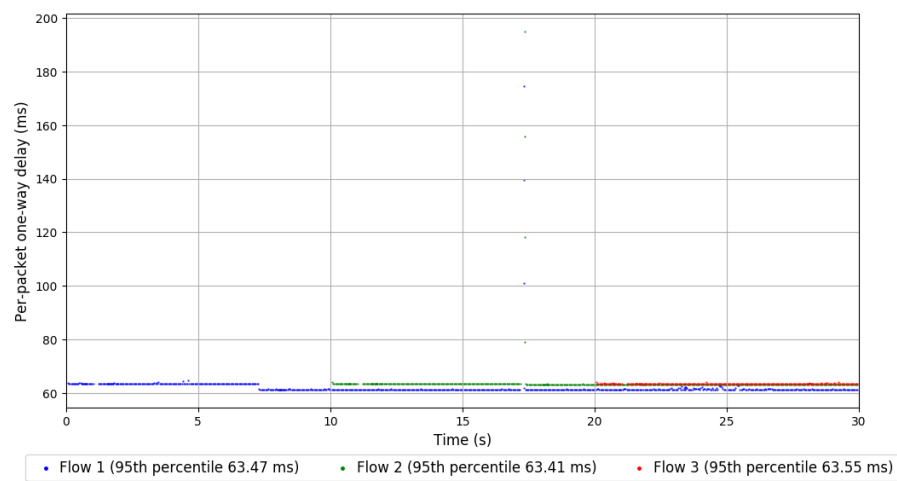
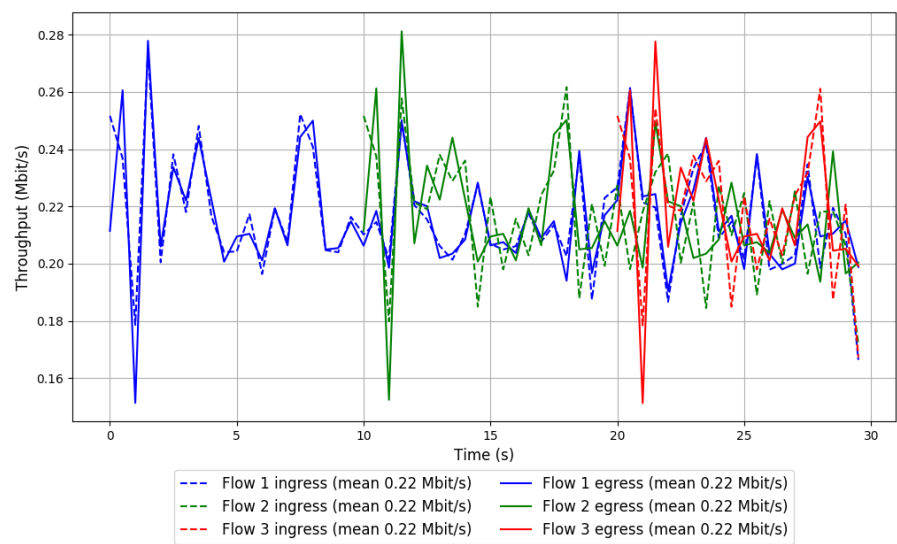


```
Run 2: Statistics of SReAM

Start at: 2017-11-17 08:32:55
End at: 2017-11-17 08:33:25

# Below is generated by plot.py at 2017-11-17 11:51:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.478 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.471 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.414 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.545 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2017-11-17 08:45:35

End at: 2017-11-17 08:46:05

Below is generated by plot.py at 2017-11-17 11:51:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 63.319 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.596 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.352 ms

Loss rate: 0.00%

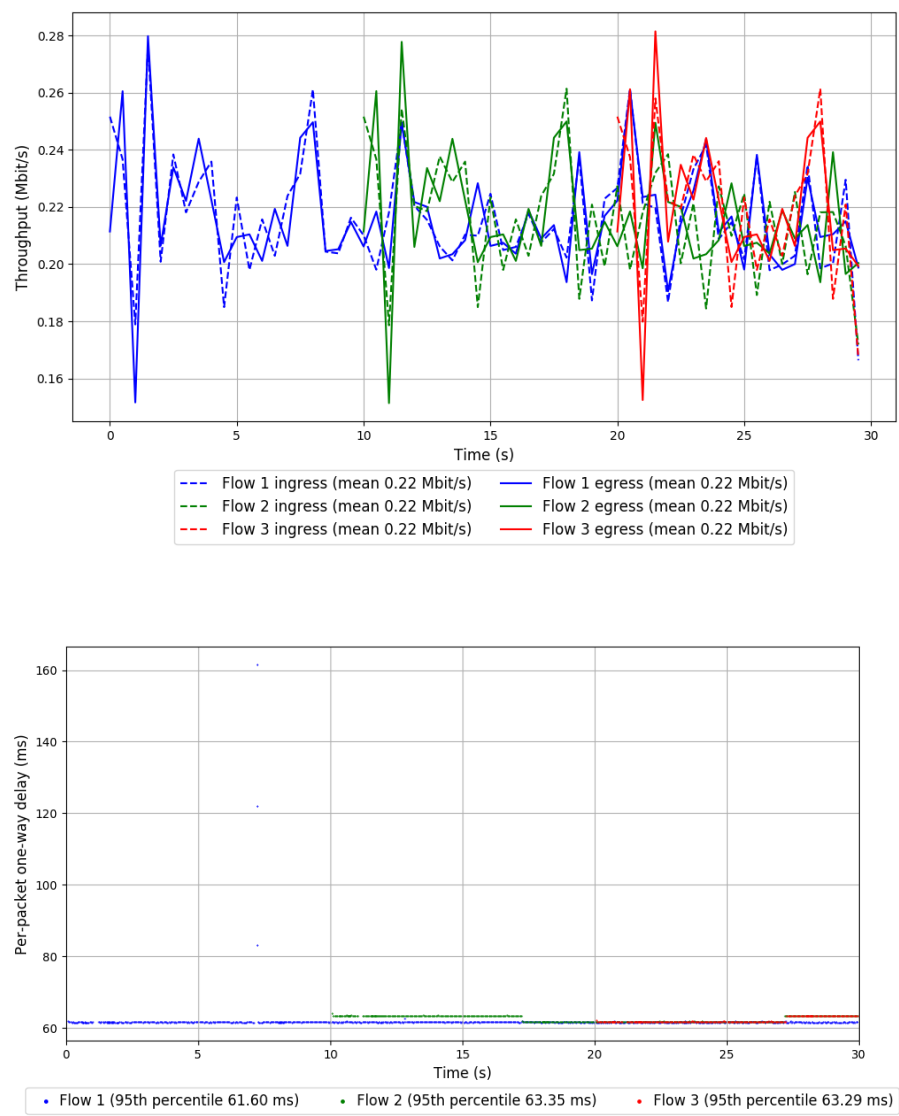
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.294 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

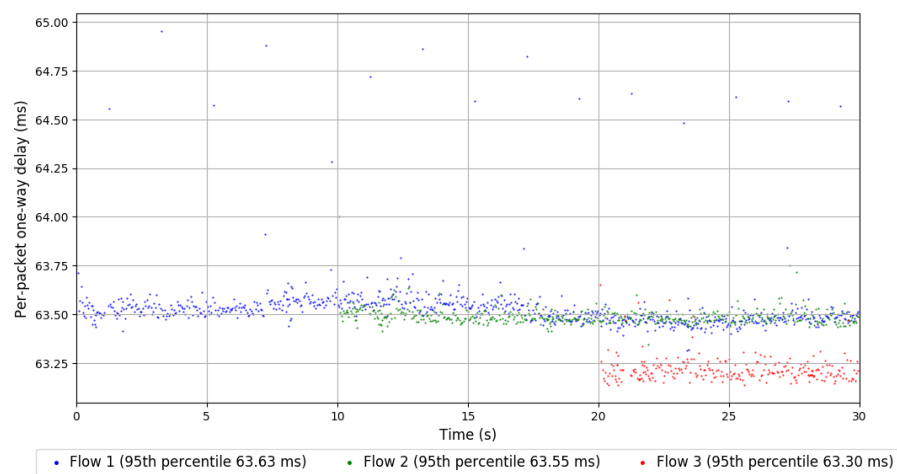
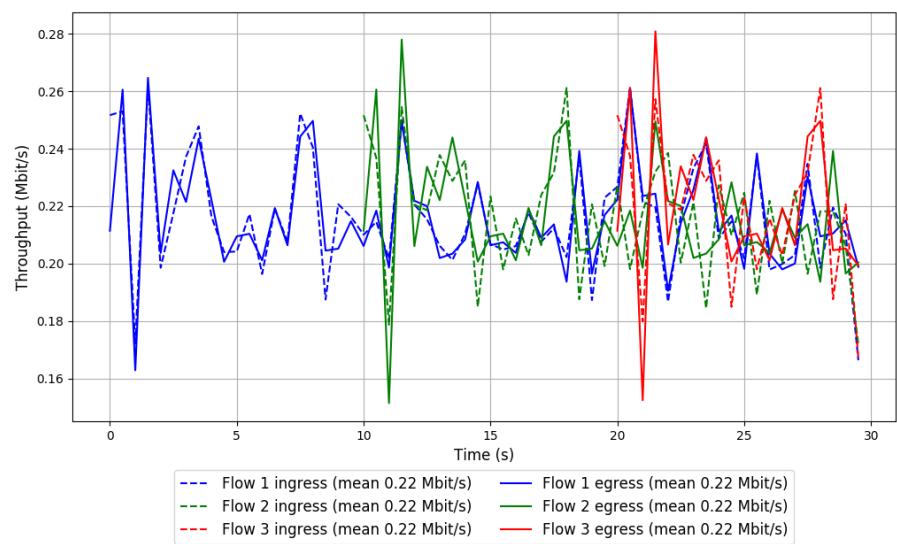


```
Run 4: Statistics of SCReAM

Start at: 2017-11-17 08:57:55
End at: 2017-11-17 08:58:25

# Below is generated by plot.py at 2017-11-17 11:51:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.600 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.629 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.554 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.305 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-11-17 09:10:08

End at: 2017-11-17 09:10:39

Below is generated by plot.py at 2017-11-17 11:51:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 63.463 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.522 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.697 ms

Loss rate: 0.00%

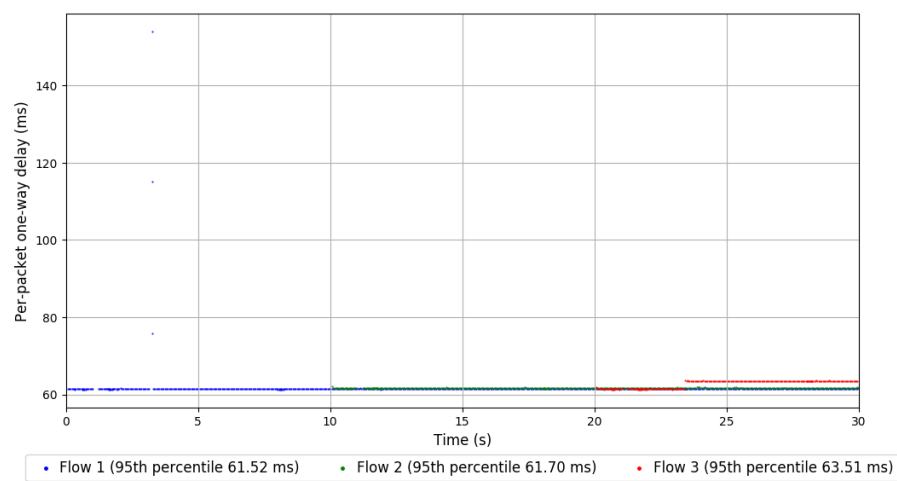
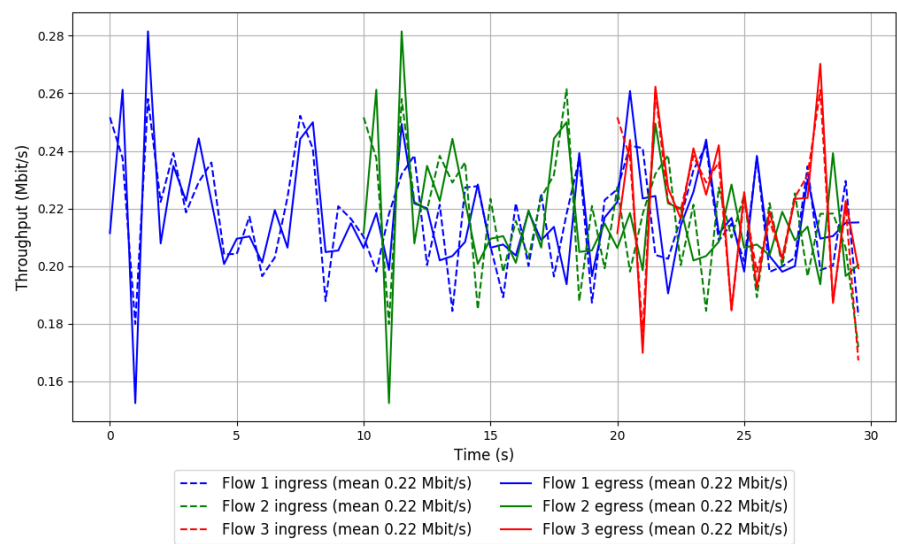
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.508 ms

Loss rate: 0.00%

Run 5: Report of SCRaM — Data Link

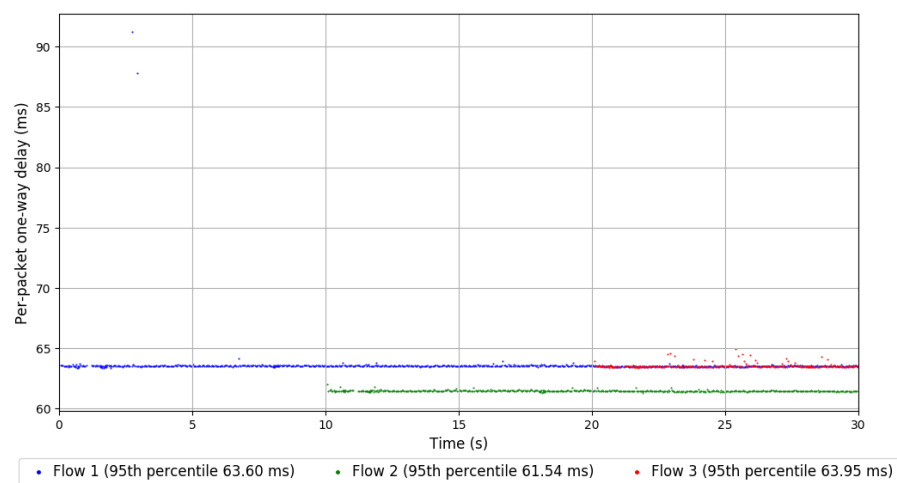
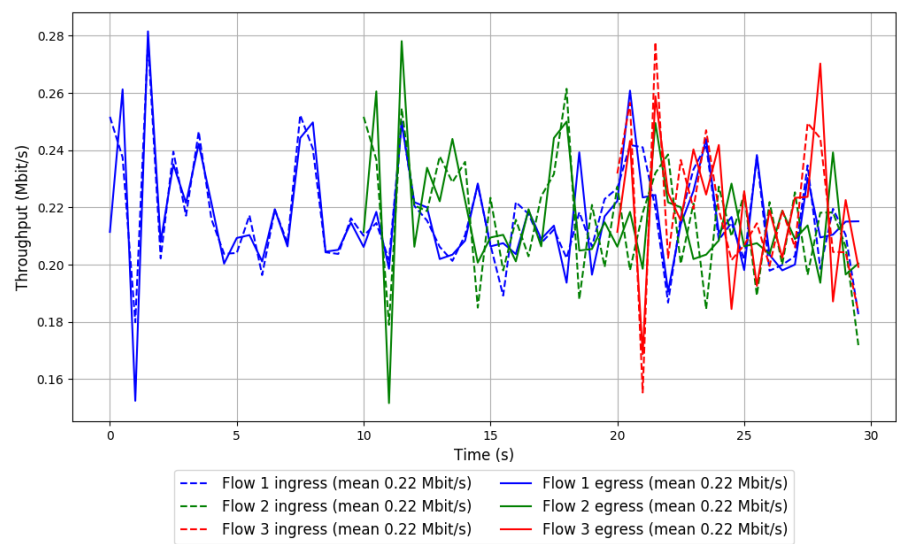


```
Run 6: Statistics of SReAM

Start at: 2017-11-17 09:22:09
End at: 2017-11-17 09:22:39

# Below is generated by plot.py at 2017-11-17 11:51:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.597 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.603 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.540 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.953 ms
Loss rate: 0.00%
```

Run 6: Report of SReAM — Data Link

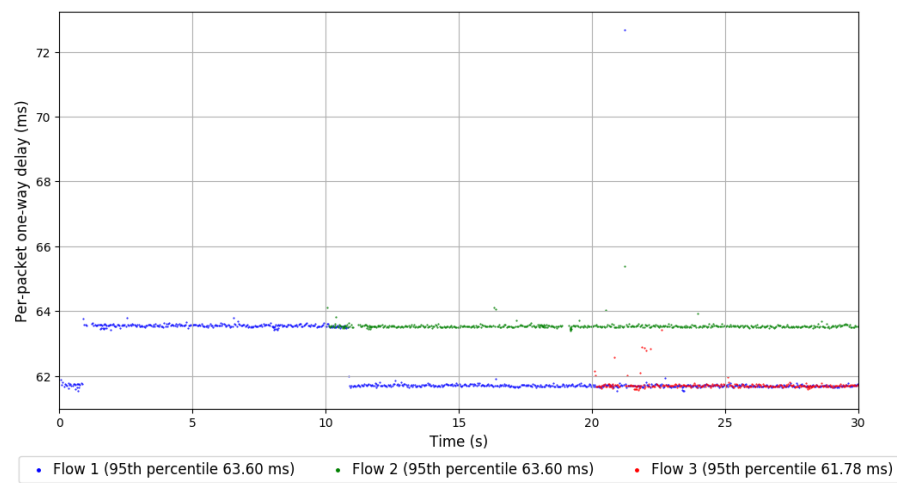
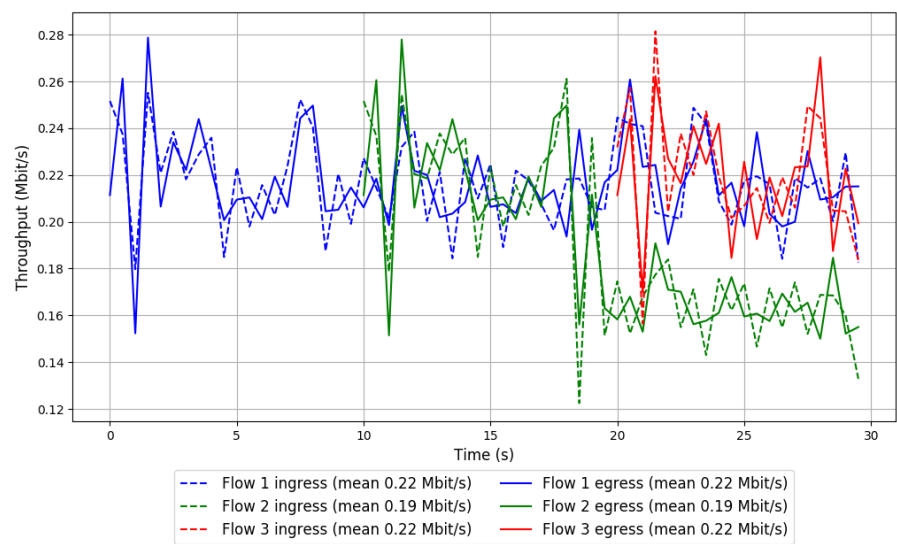


```
Run 7: Statistics of SReAM

Start at: 2017-11-17 09:34:21
End at: 2017-11-17 09:34:51

# Below is generated by plot.py at 2017-11-17 11:51:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 63.593 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.596 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 63.596 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.785 ms
Loss rate: 0.00%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-11-17 09:46:36

End at: 2017-11-17 09:47:06

Below is generated by plot.py at 2017-11-17 11:51:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 63.712 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 69.415 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.318 ms

Loss rate: 0.00%

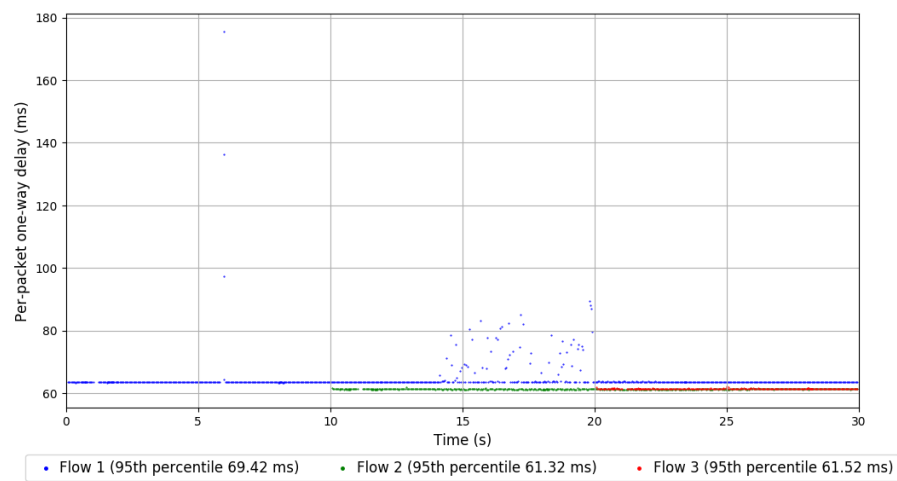
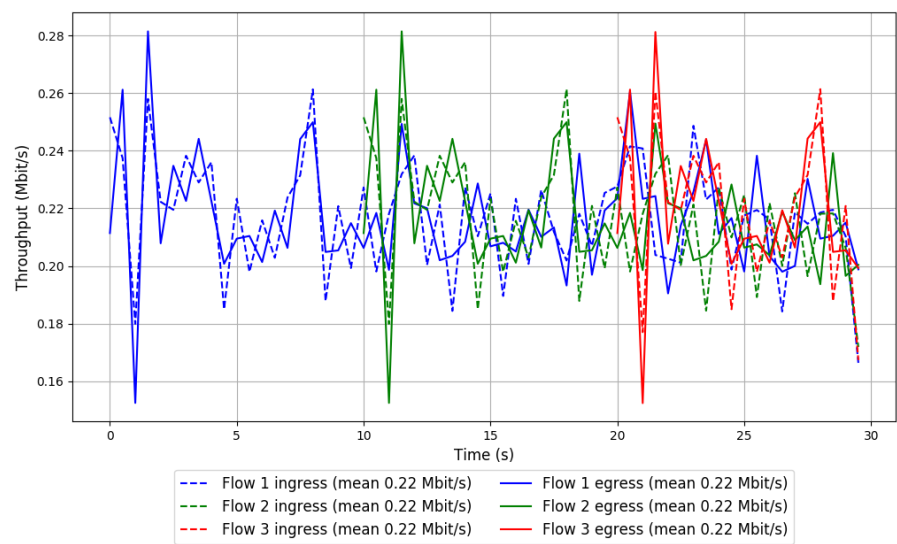
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.525 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-11-17 09:59:18

End at: 2017-11-17 09:59:48

Below is generated by plot.py at 2017-11-17 11:51:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 63.712 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.711 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.585 ms

Loss rate: 0.00%

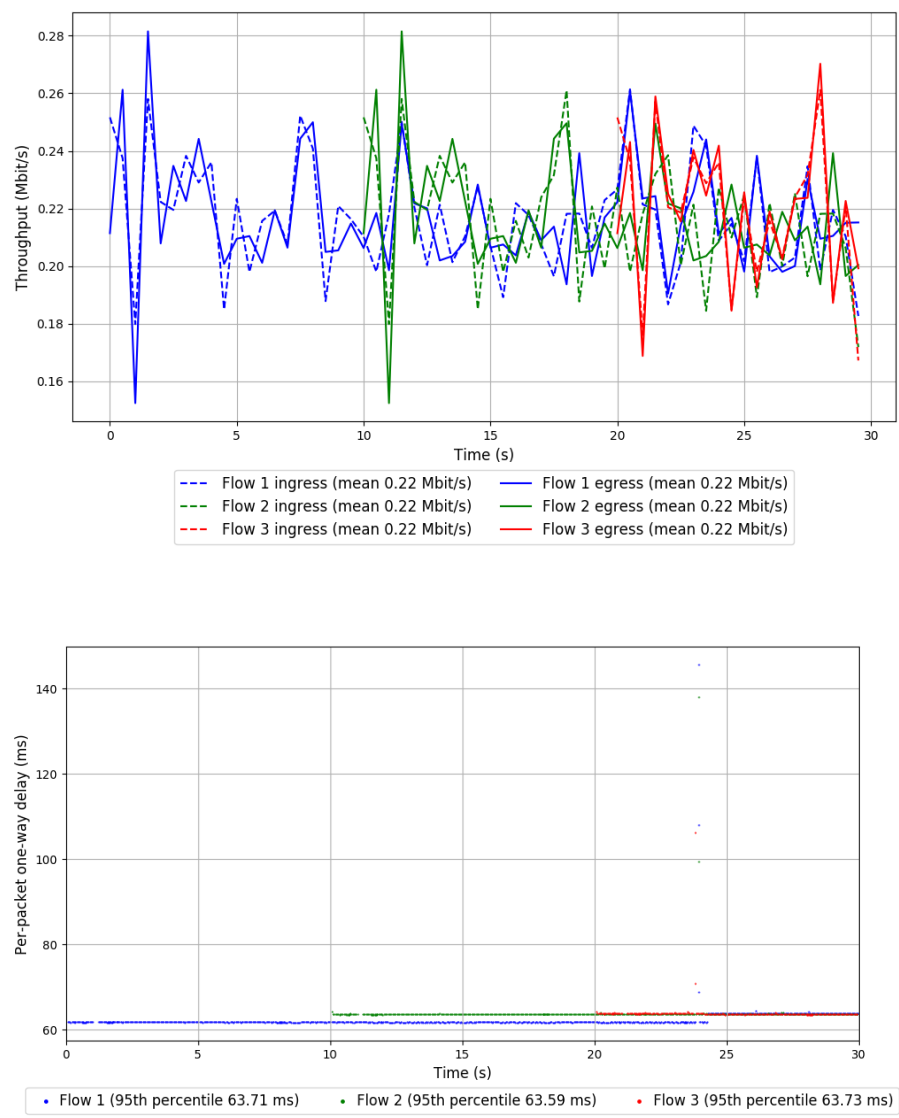
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.728 ms

Loss rate: 0.00%

Run 9: Report of SCRaM — Data Link

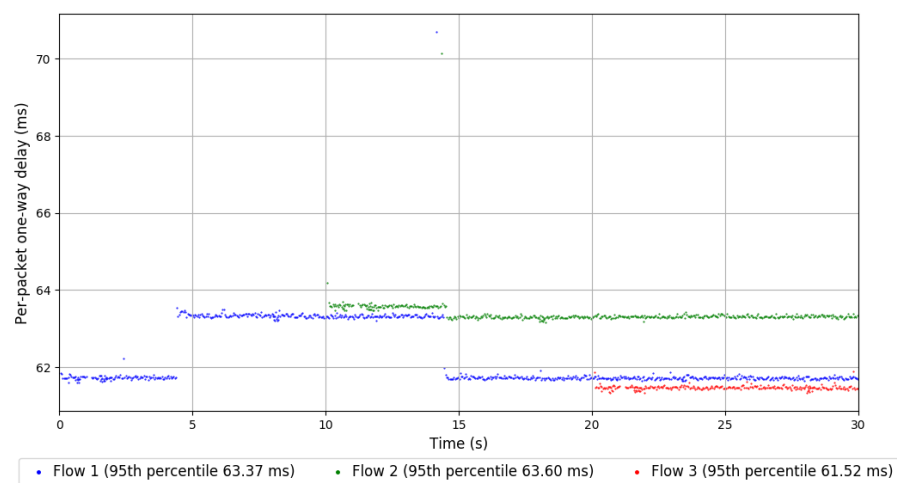
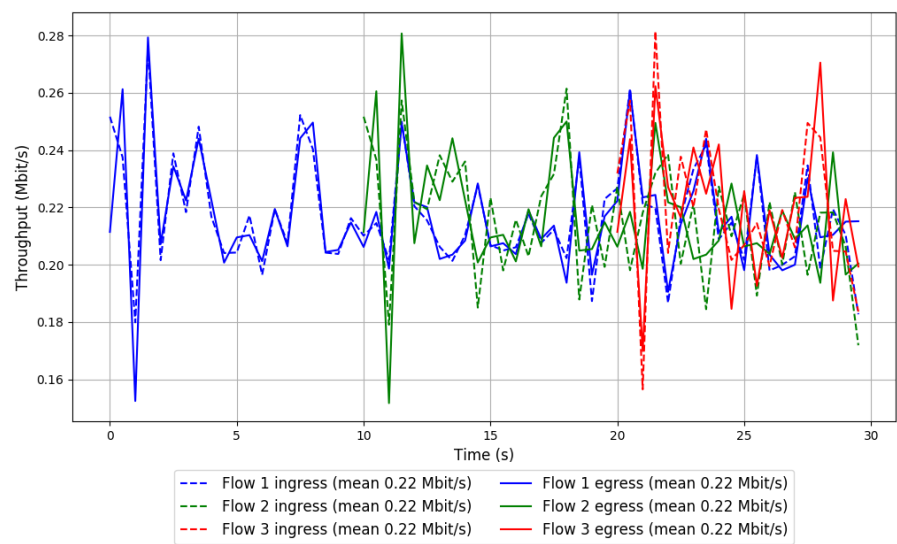


```
Run 10: Statistics of SCReAM

Start at: 2017-11-17 10:11:28
End at: 2017-11-17 10:11:58

# Below is generated by plot.py at 2017-11-17 11:51:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.563 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.368 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.603 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.524 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link

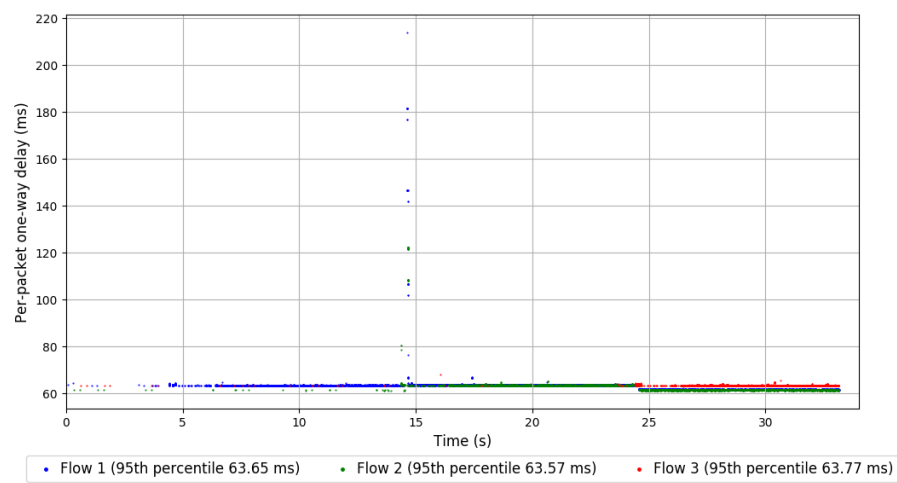
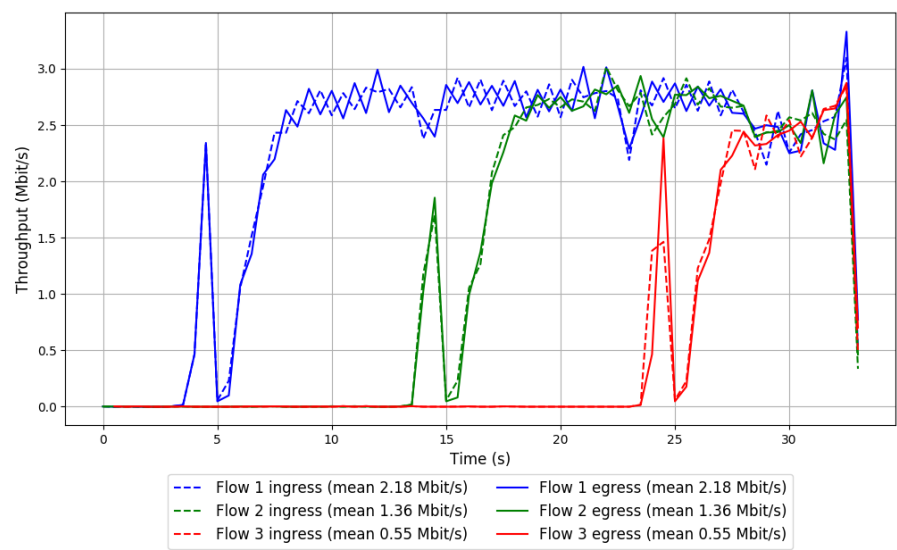


```
Run 1: Statistics of WebRTC media

Start at: 2017-11-17 08:14:00
End at: 2017-11-17 08:14:30

# Below is generated by plot.py at 2017-11-17 11:51:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.07 Mbit/s
95th percentile per-packet one-way delay: 63.632 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.18 Mbit/s
95th percentile per-packet one-way delay: 63.646 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.36 Mbit/s
95th percentile per-packet one-way delay: 63.568 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 63.773 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link

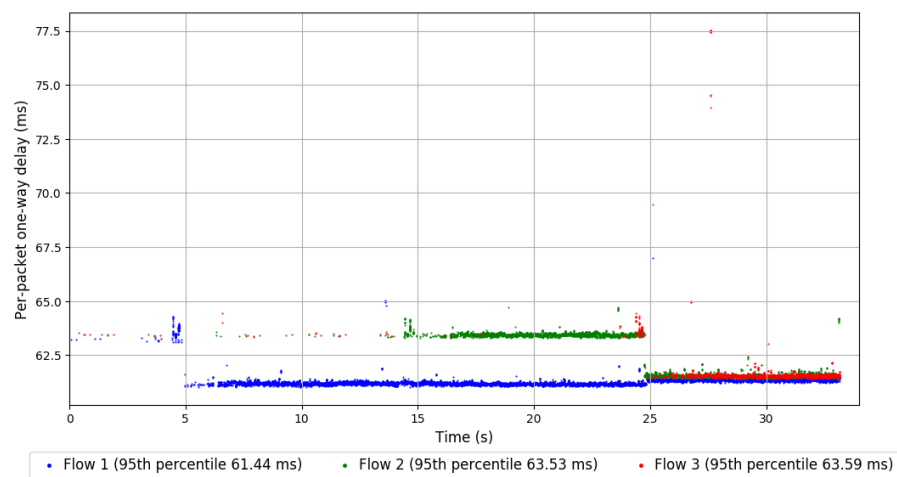
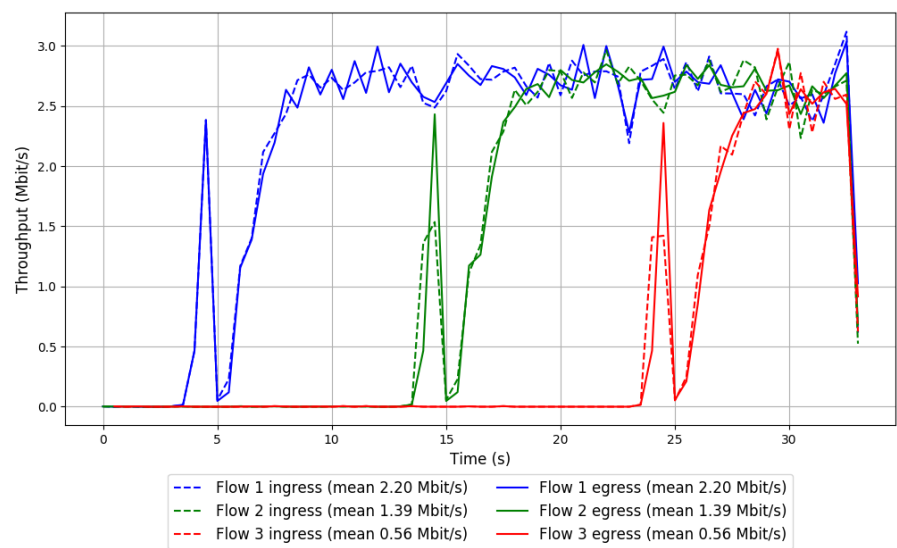


```
Run 2: Statistics of WebRTC media

Start at: 2017-11-17 08:26:20
End at: 2017-11-17 08:26:50

# Below is generated by plot.py at 2017-11-17 11:51:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.13 Mbit/s
95th percentile per-packet one-way delay: 63.497 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 61.439 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.39 Mbit/s
95th percentile per-packet one-way delay: 63.535 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 63.586 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-17 08:38:50

End at: 2017-11-17 08:39:20

Below is generated by plot.py at 2017-11-17 11:51:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.07 Mbit/s

95th percentile per-packet one-way delay: 63.530 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 61.745 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 63.600 ms

Loss rate: 0.00%

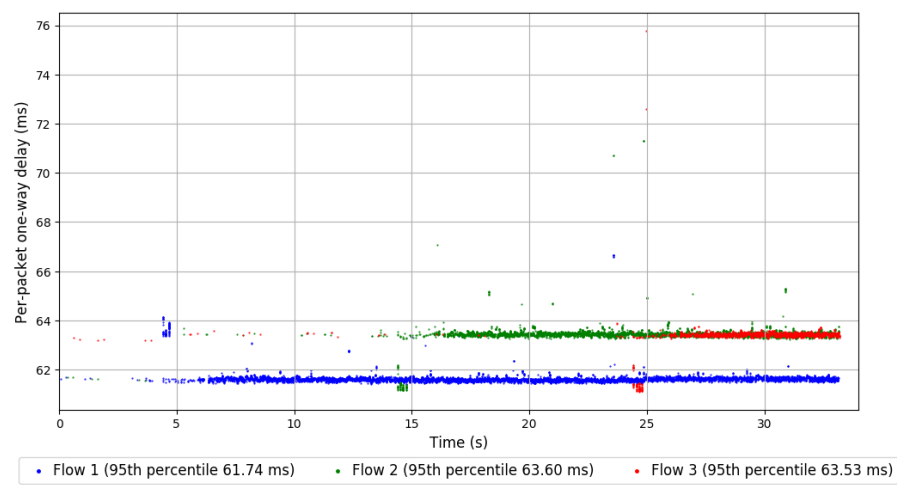
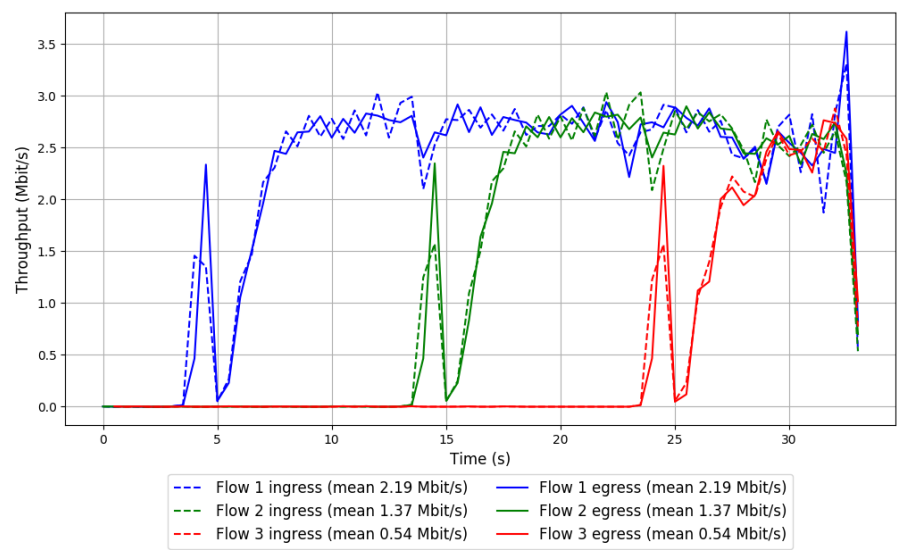
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 63.532 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-17 08:51:26

End at: 2017-11-17 08:51:56

Below is generated by plot.py at 2017-11-17 11:51:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.43 Mbit/s

95th percentile per-packet one-way delay: 63.564 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 63.588 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 61.705 ms

Loss rate: 0.20%

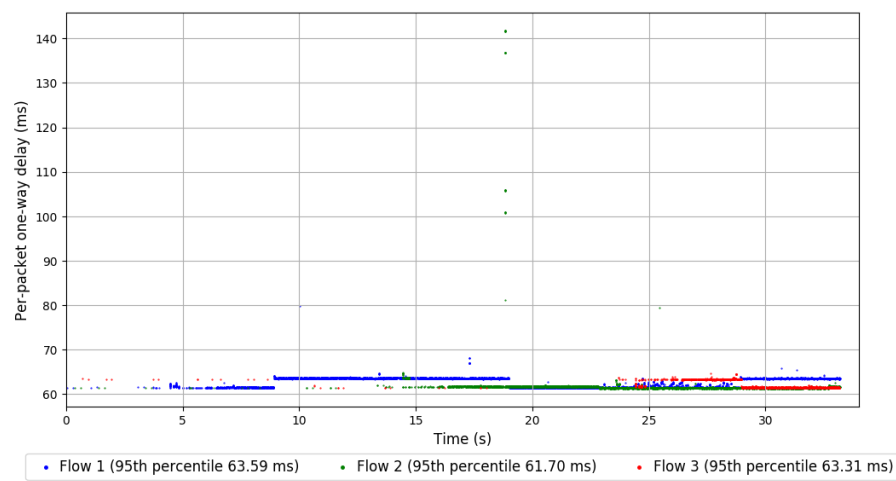
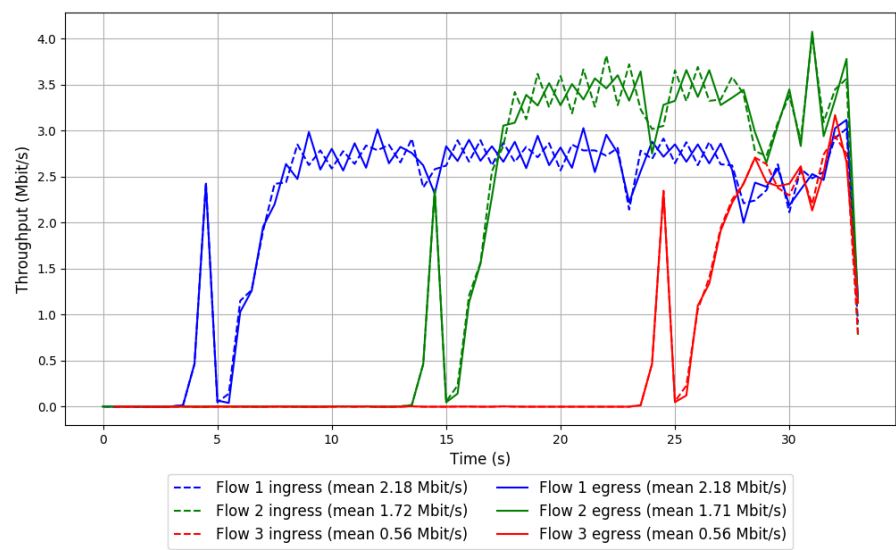
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 63.311 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-17 09:03:45

End at: 2017-11-17 09:04:15

Below is generated by plot.py at 2017-11-17 11:51:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.07 Mbit/s

95th percentile per-packet one-way delay: 63.602 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 63.630 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 63.491 ms

Loss rate: 0.00%

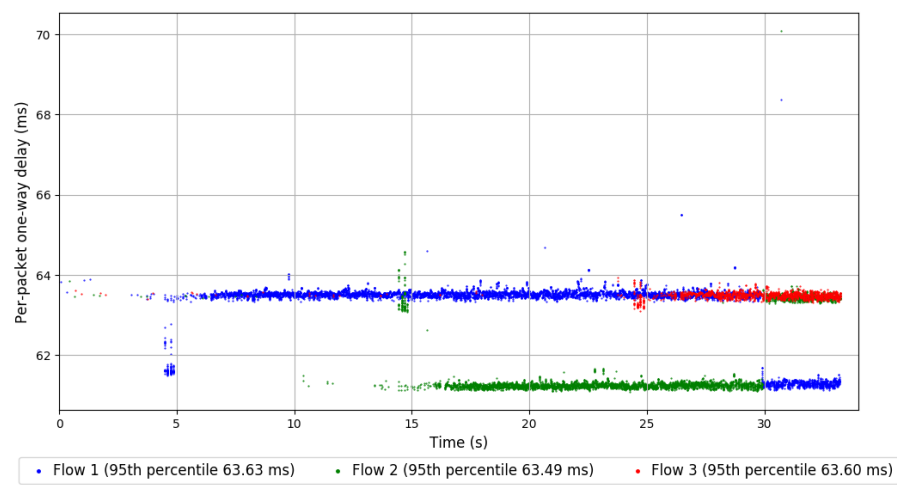
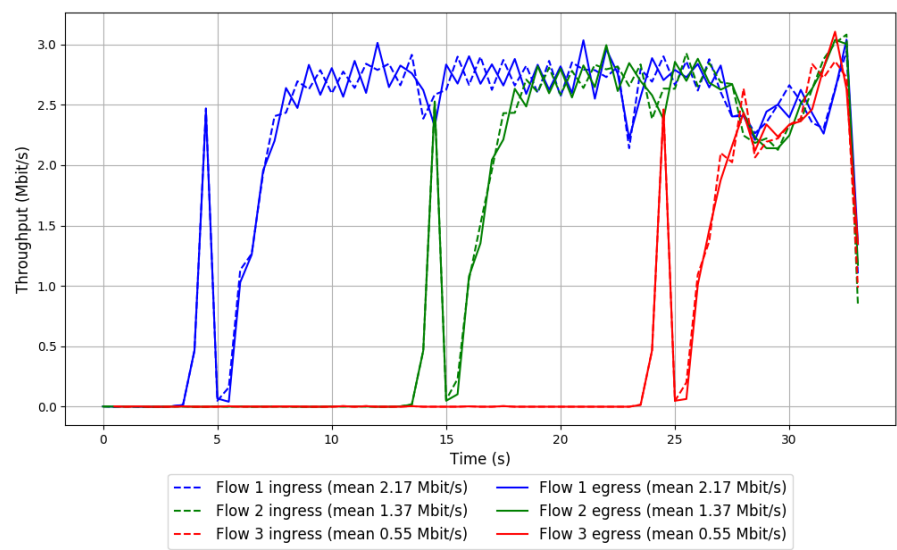
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 63.603 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-17 09:16:00

End at: 2017-11-17 09:16:30

Below is generated by plot.py at 2017-11-17 11:51:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 63.607 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 63.613 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 63.619 ms

Loss rate: 0.00%

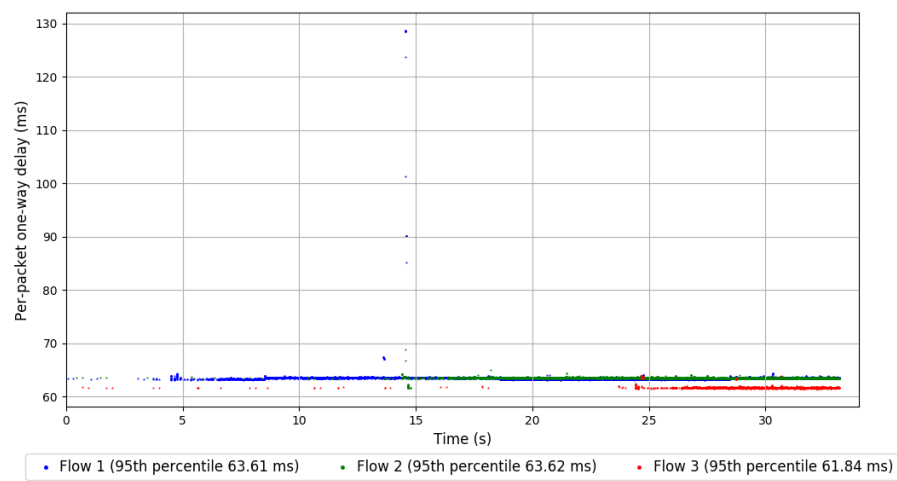
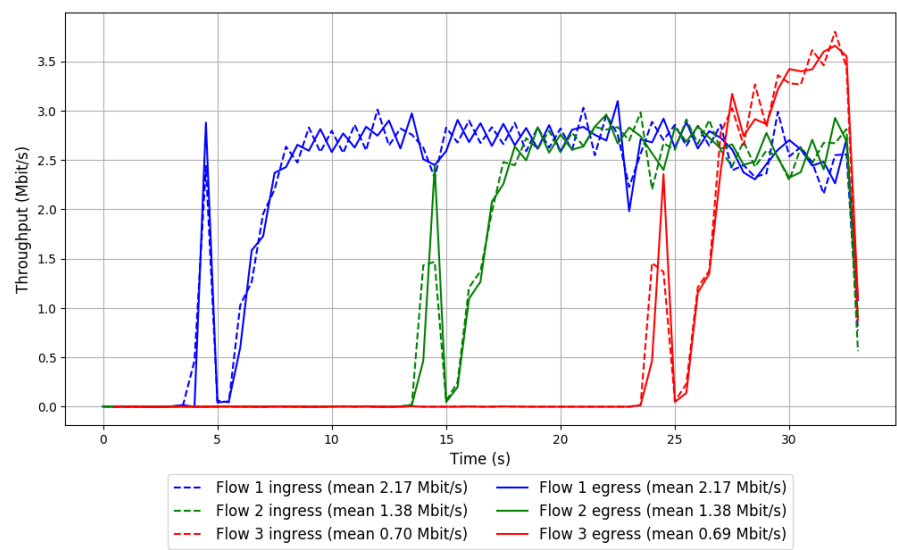
-- Flow 3:

Average throughput: 0.69 Mbit/s

95th percentile per-packet one-way delay: 61.845 ms

Loss rate: 0.80%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-17 09:27:59

End at: 2017-11-17 09:28:29

Below is generated by plot.py at 2017-11-17 11:51:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.66 Mbit/s

95th percentile per-packet one-way delay: 63.615 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 2.65 Mbit/s

95th percentile per-packet one-way delay: 63.556 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 63.903 ms

Loss rate: 0.00%

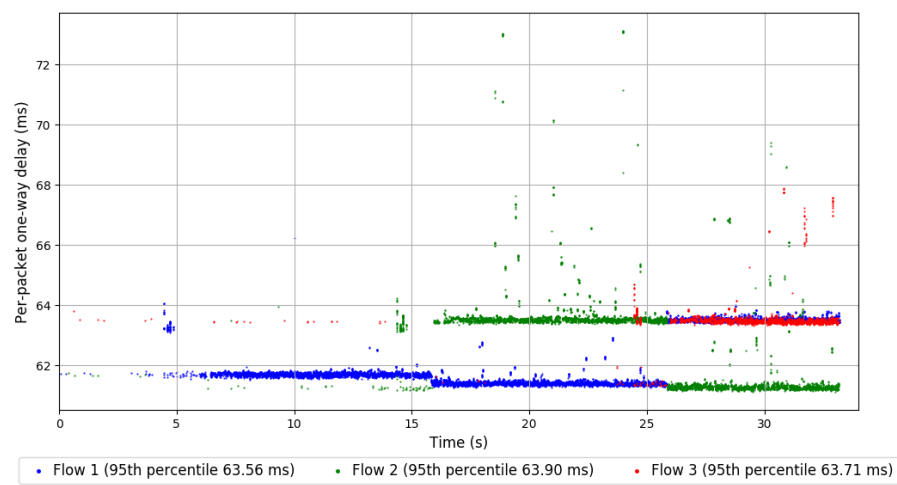
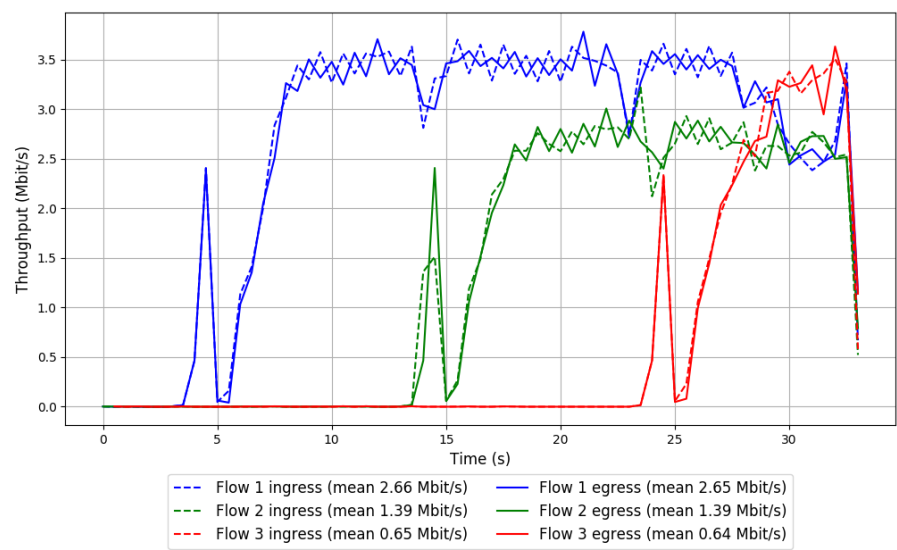
-- Flow 3:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 63.710 ms

Loss rate: 0.77%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-17 09:40:10

End at: 2017-11-17 09:40:40

Below is generated by plot.py at 2017-11-17 11:51:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.10 Mbit/s

95th percentile per-packet one-way delay: 63.611 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 63.628 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 63.563 ms

Loss rate: 0.00%

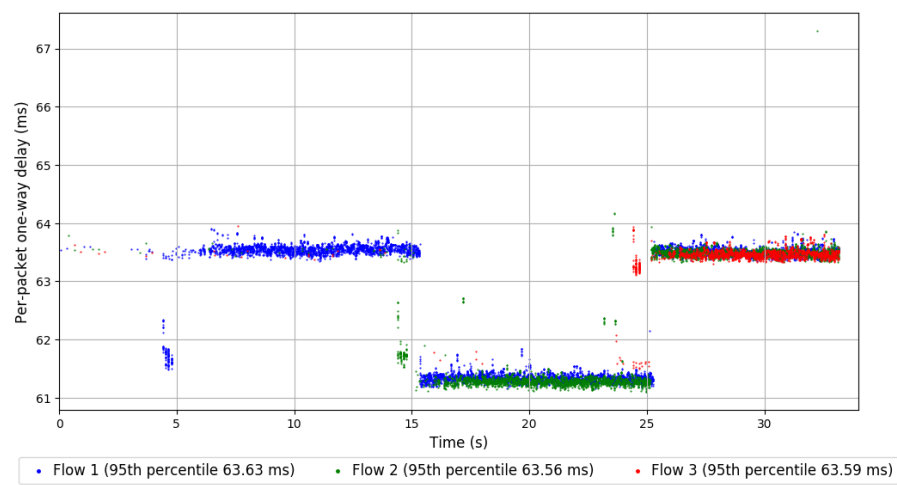
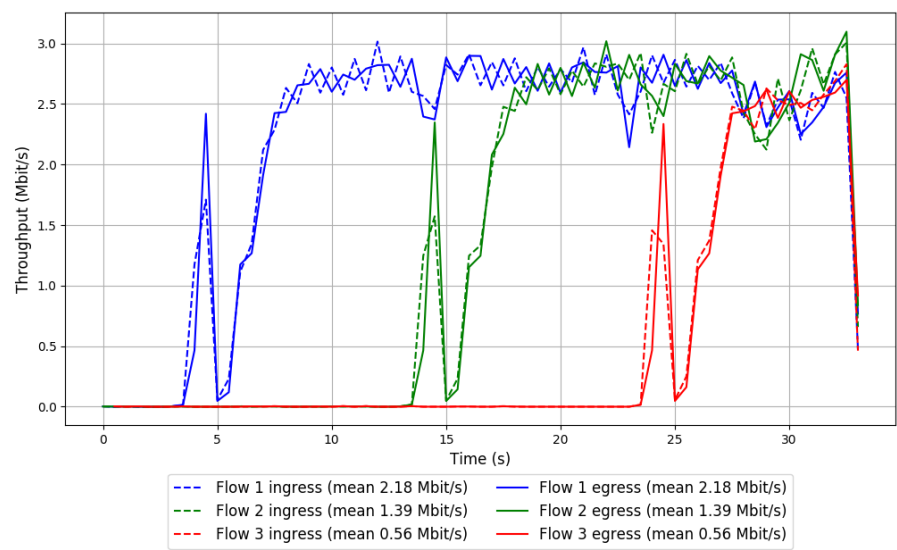
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 63.594 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-17 09:52:34

End at: 2017-11-17 09:53:04

Below is generated by plot.py at 2017-11-17 11:51:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 63.672 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 63.683 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 63.633 ms

Loss rate: 0.00%

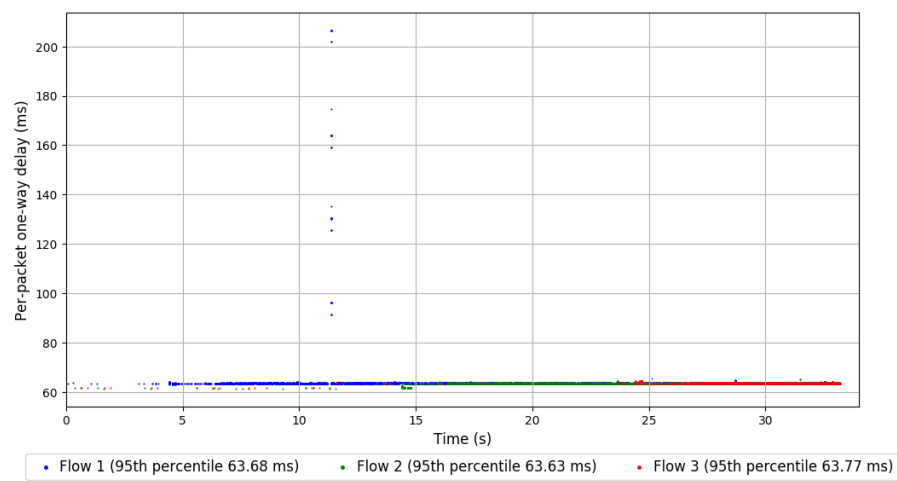
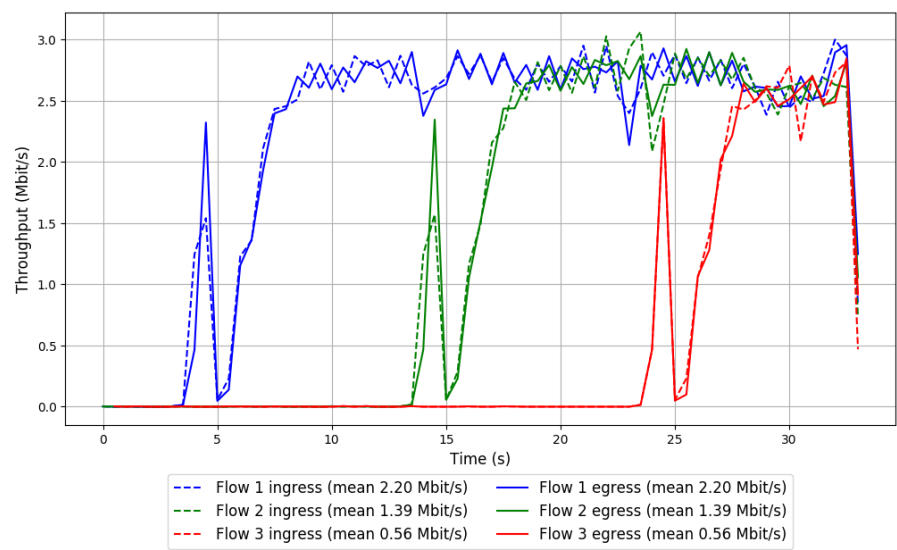
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 63.769 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-17 10:05:09

End at: 2017-11-17 10:05:39

Below is generated by plot.py at 2017-11-17 11:51:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.08 Mbit/s

95th percentile per-packet one-way delay: 63.605 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 63.588 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 63.646 ms

Loss rate: 0.00%

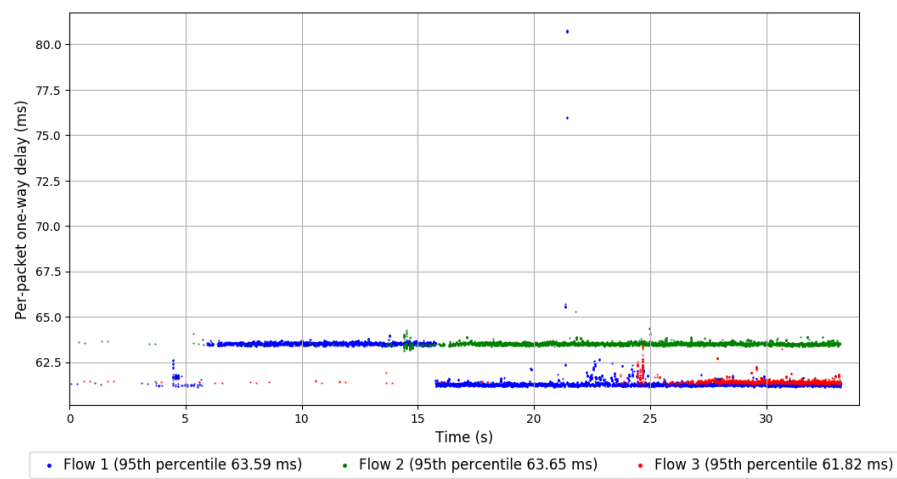
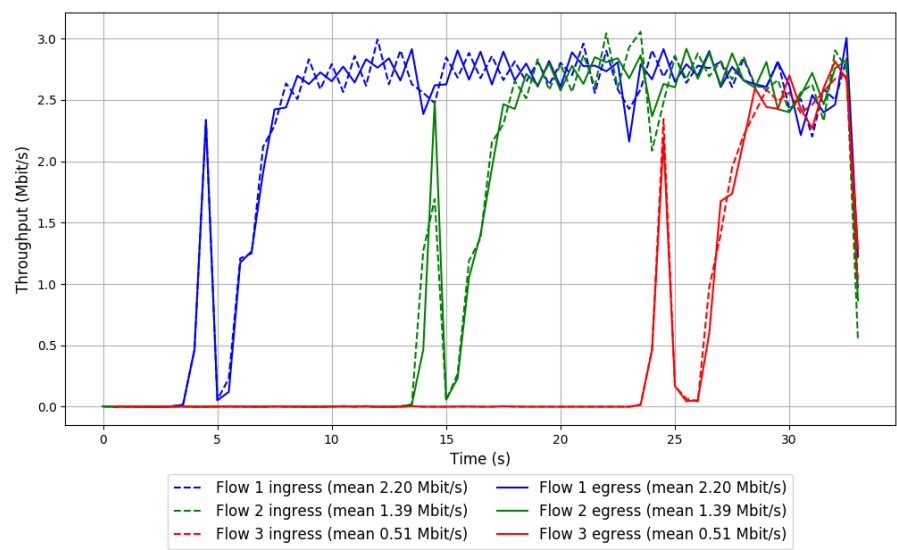
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 61.818 ms

Loss rate: 0.50%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-11-17 08:21:56

End at: 2017-11-17 08:22:26

Below is generated by plot.py at 2017-11-17 11:51:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.78 Mbit/s

95th percentile per-packet one-way delay: 64.273 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 6.38 Mbit/s

95th percentile per-packet one-way delay: 64.240 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 6.51 Mbit/s

95th percentile per-packet one-way delay: 64.343 ms

Loss rate: 0.00%

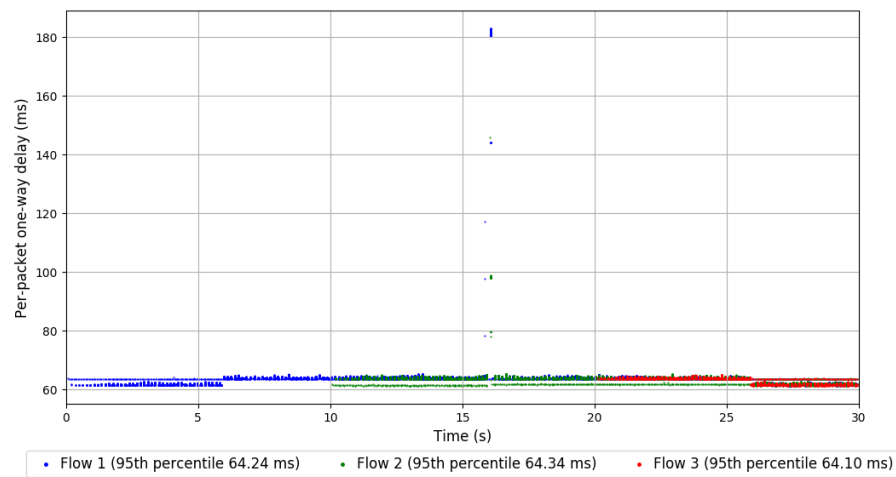
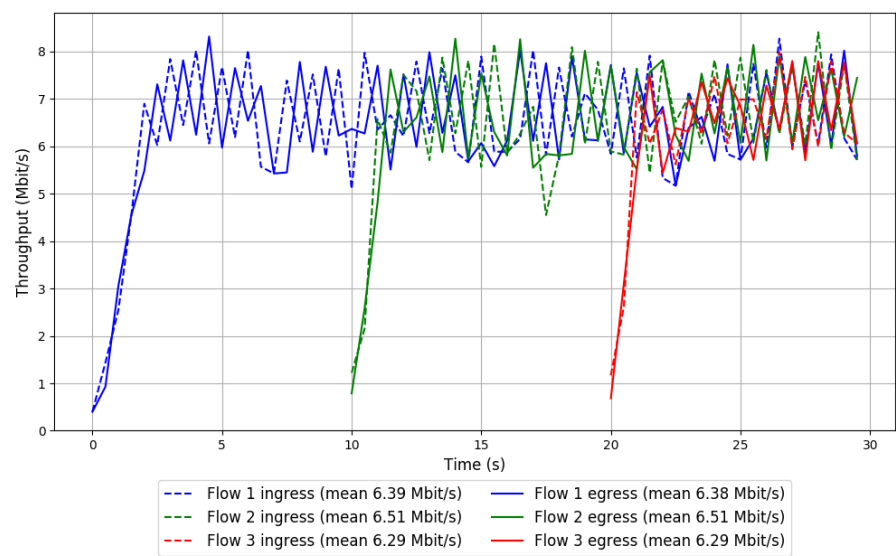
-- Flow 3:

Average throughput: 6.29 Mbit/s

95th percentile per-packet one-way delay: 64.097 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-11-17 08:34:21

End at: 2017-11-17 08:34:51

Below is generated by plot.py at 2017-11-17 11:51:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.72 Mbit/s

95th percentile per-packet one-way delay: 64.012 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 6.64 Mbit/s

95th percentile per-packet one-way delay: 64.120 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.44 Mbit/s

95th percentile per-packet one-way delay: 62.205 ms

Loss rate: 0.00%

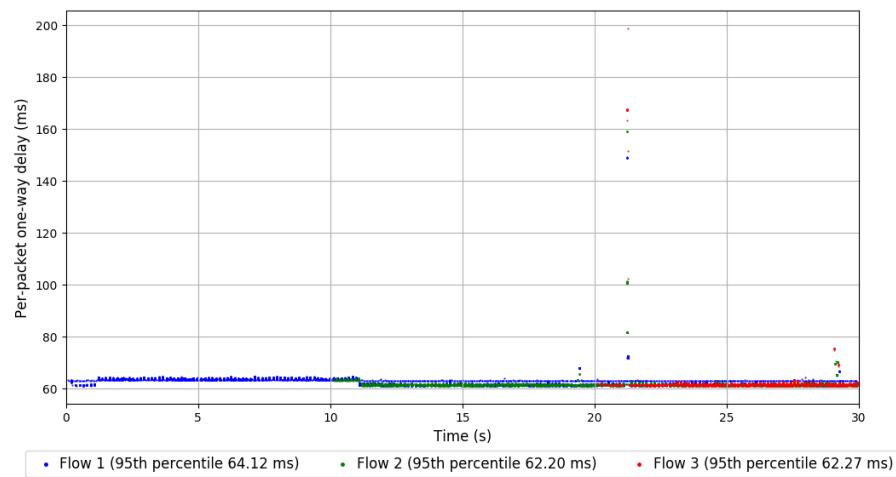
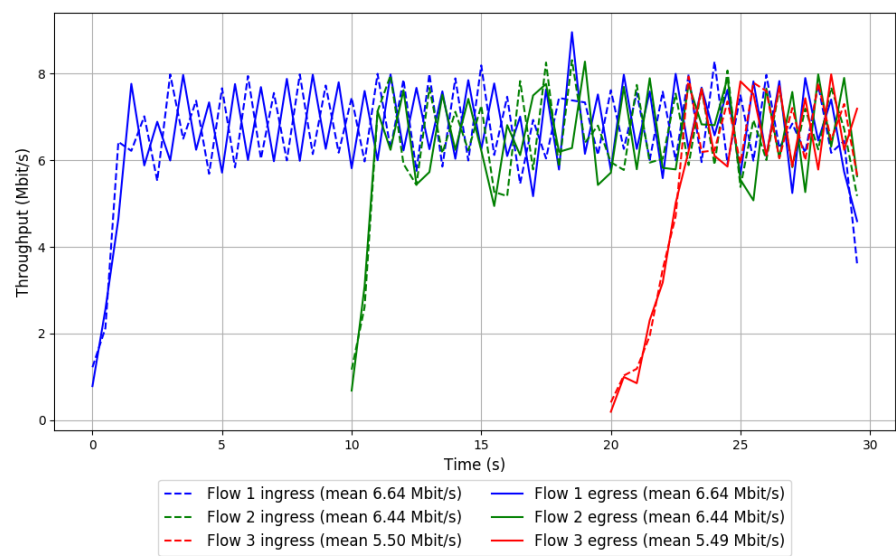
-- Flow 3:

Average throughput: 5.49 Mbit/s

95th percentile per-packet one-way delay: 62.272 ms

Loss rate: 0.20%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-11-17 08:47:01

End at: 2017-11-17 08:47:31

Below is generated by plot.py at 2017-11-17 11:51:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.85 Mbit/s

95th percentile per-packet one-way delay: 64.362 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 6.48 Mbit/s

95th percentile per-packet one-way delay: 64.339 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 6.50 Mbit/s

95th percentile per-packet one-way delay: 64.380 ms

Loss rate: 0.00%

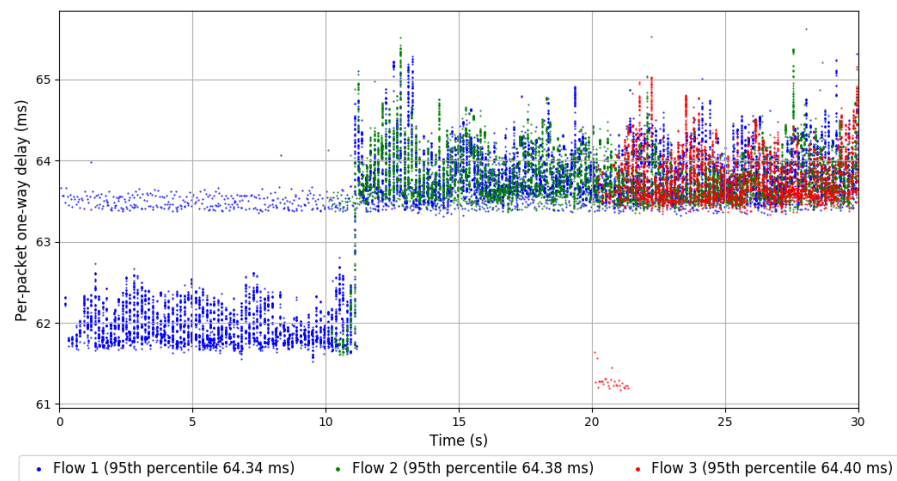
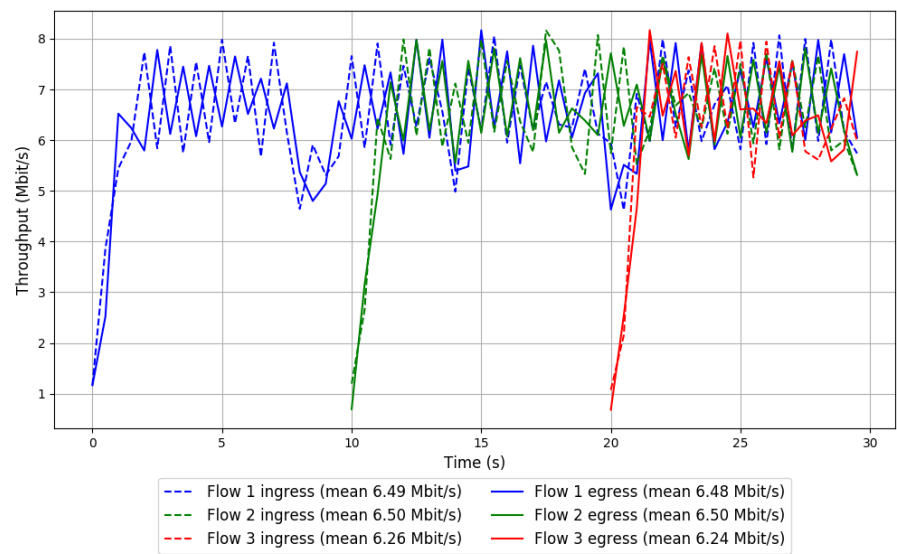
-- Flow 3:

Average throughput: 6.24 Mbit/s

95th percentile per-packet one-way delay: 64.399 ms

Loss rate: 0.23%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-17 08:59:21

End at: 2017-11-17 08:59:51

Below is generated by plot.py at 2017-11-17 11:51:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.55 Mbit/s

95th percentile per-packet one-way delay: 64.131 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 6.43 Mbit/s

95th percentile per-packet one-way delay: 64.223 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 6.42 Mbit/s

95th percentile per-packet one-way delay: 63.947 ms

Loss rate: 0.02%

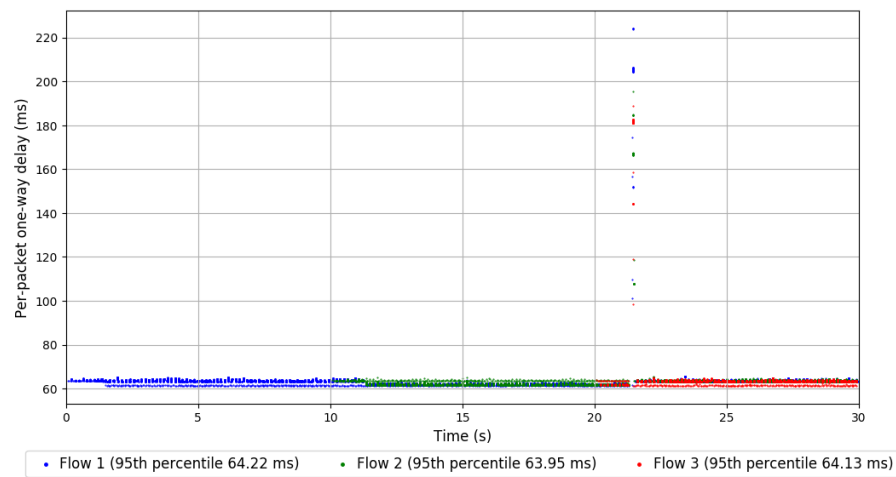
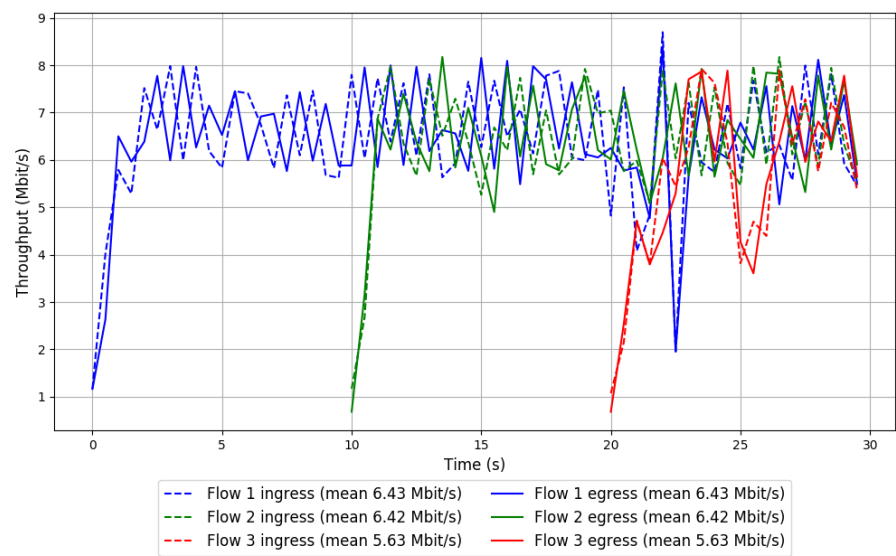
-- Flow 3:

Average throughput: 5.63 Mbit/s

95th percentile per-packet one-way delay: 64.132 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-17 09:11:34

End at: 2017-11-17 09:12:04

Below is generated by plot.py at 2017-11-17 11:51:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.70 Mbit/s

95th percentile per-packet one-way delay: 64.220 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 6.49 Mbit/s

95th percentile per-packet one-way delay: 64.150 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 6.29 Mbit/s

95th percentile per-packet one-way delay: 64.207 ms

Loss rate: 0.73%

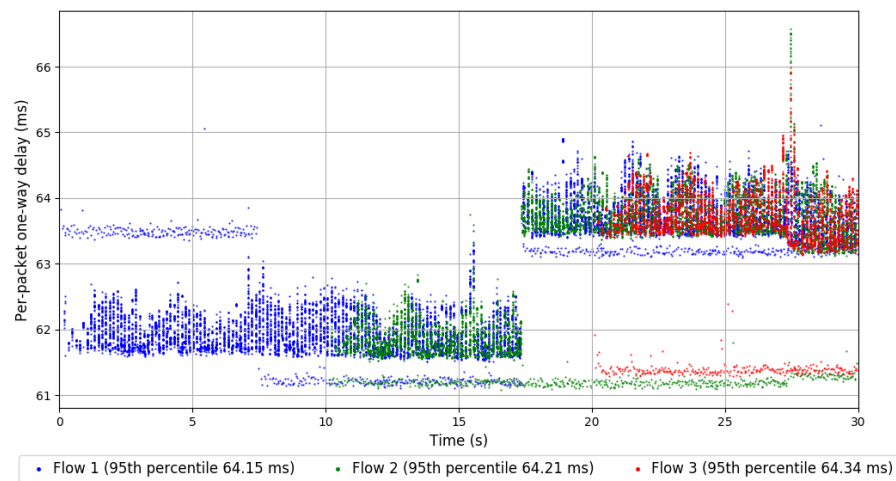
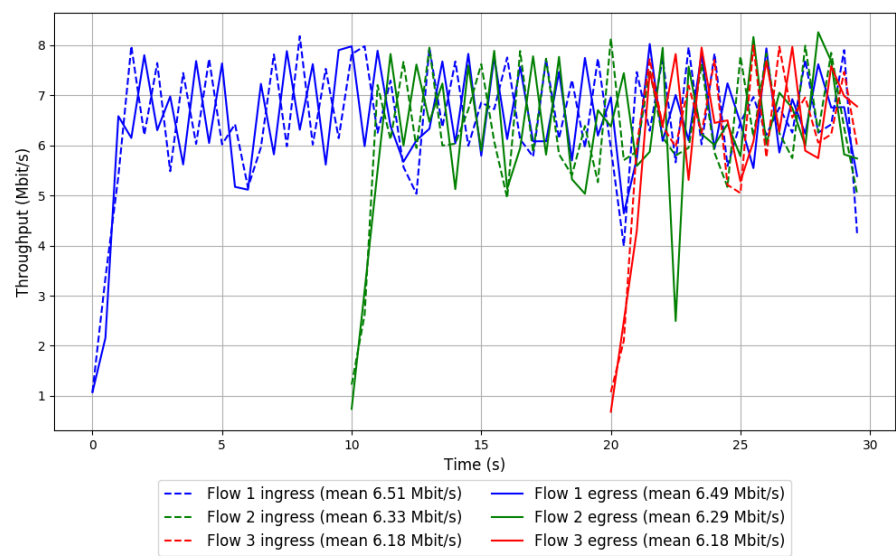
-- Flow 3:

Average throughput: 6.18 Mbit/s

95th percentile per-packet one-way delay: 64.343 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-11-17 09:23:35

End at: 2017-11-17 09:24:06

Below is generated by plot.py at 2017-11-17 11:51:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.78 Mbit/s

95th percentile per-packet one-way delay: 63.671 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 63.811 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 6.22 Mbit/s

95th percentile per-packet one-way delay: 63.381 ms

Loss rate: 0.00%

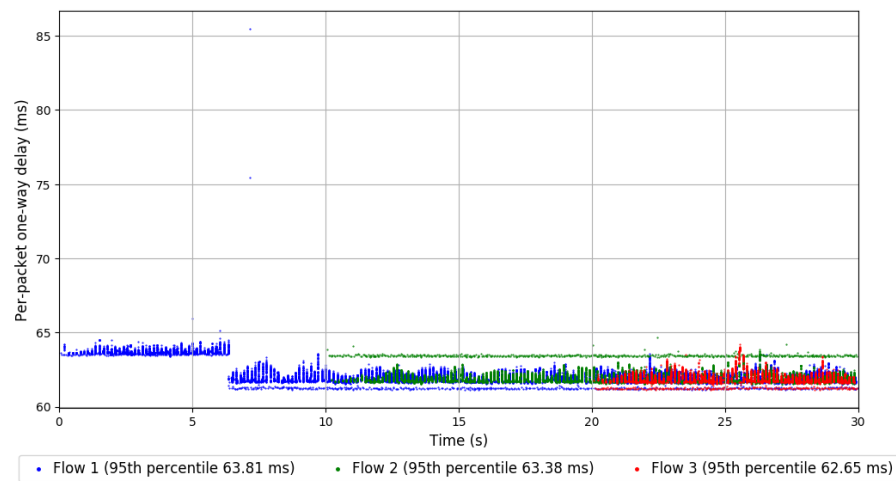
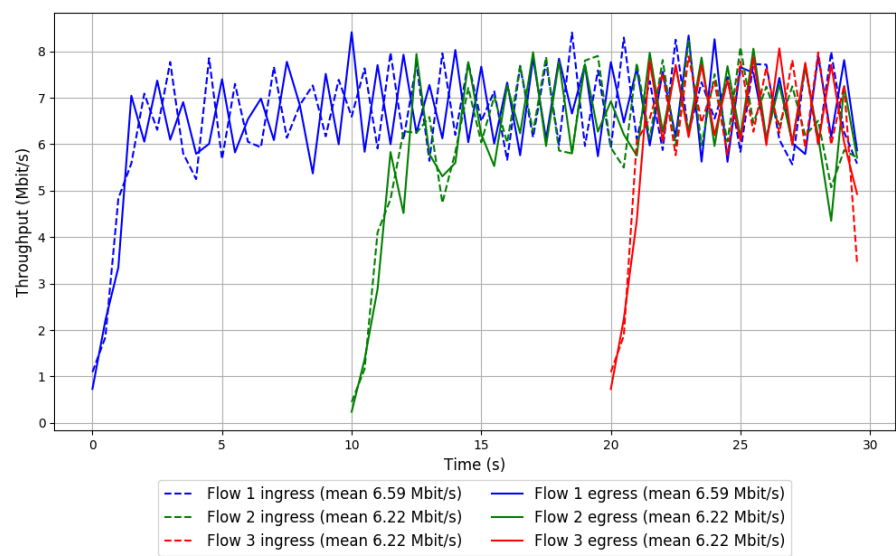
-- Flow 3:

Average throughput: 6.22 Mbit/s

95th percentile per-packet one-way delay: 62.646 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-17 09:35:47

End at: 2017-11-17 09:36:17

Below is generated by plot.py at 2017-11-17 11:51:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.93 Mbit/s

95th percentile per-packet one-way delay: 64.179 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 6.63 Mbit/s

95th percentile per-packet one-way delay: 64.118 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 6.41 Mbit/s

95th percentile per-packet one-way delay: 64.142 ms

Loss rate: 0.00%

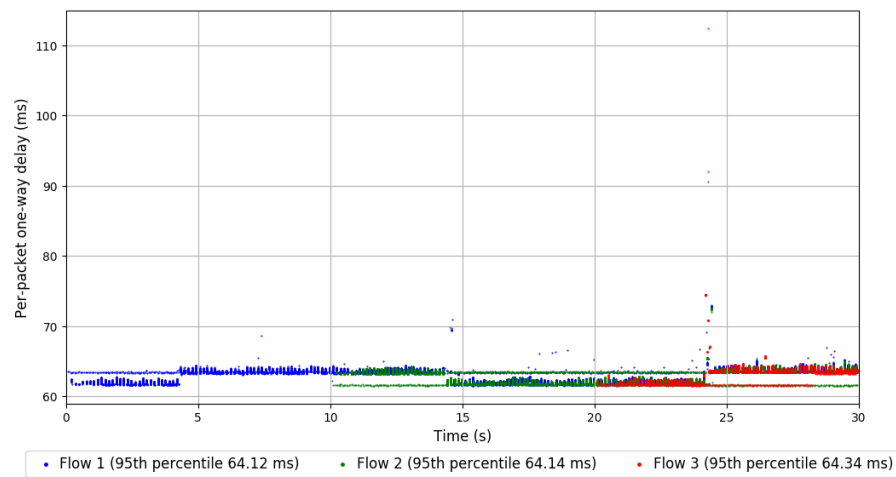
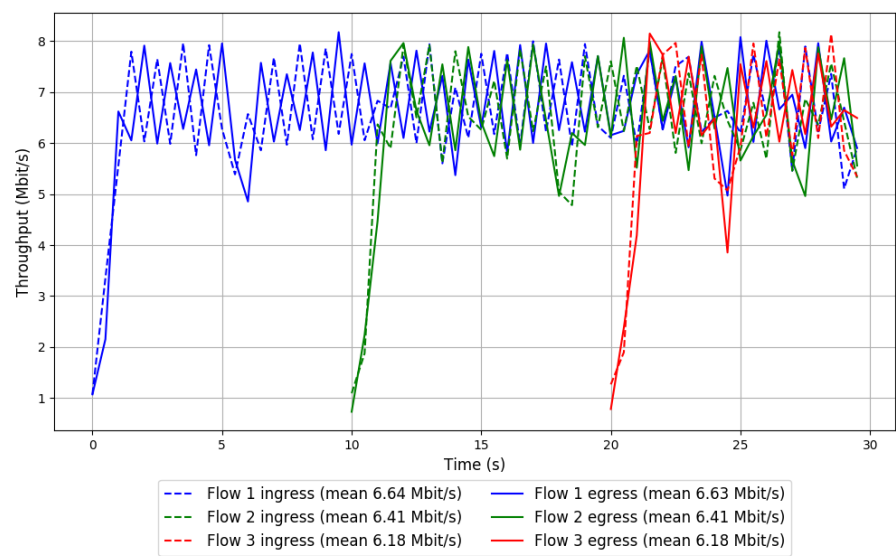
-- Flow 3:

Average throughput: 6.18 Mbit/s

95th percentile per-packet one-way delay: 64.340 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-17 09:48:02

End at: 2017-11-17 09:48:32

Below is generated by plot.py at 2017-11-17 11:51:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.82 Mbit/s

95th percentile per-packet one-way delay: 64.324 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 6.41 Mbit/s

95th percentile per-packet one-way delay: 64.202 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 64.401 ms

Loss rate: 0.05%

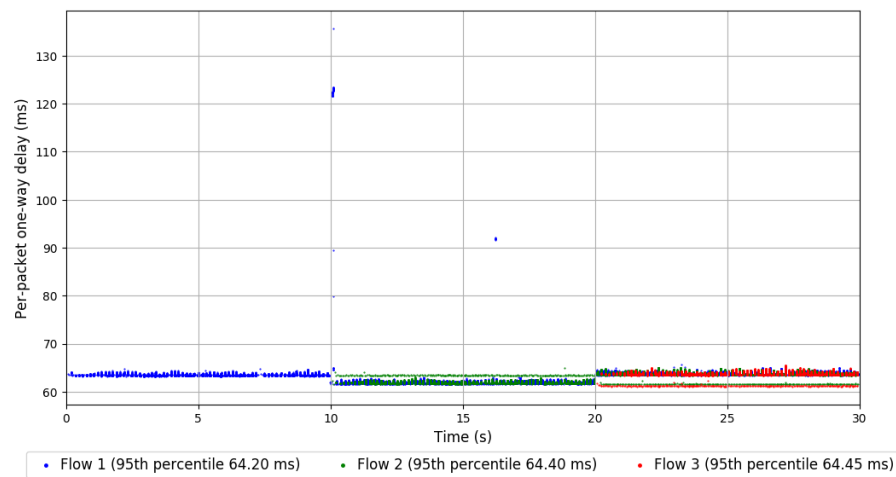
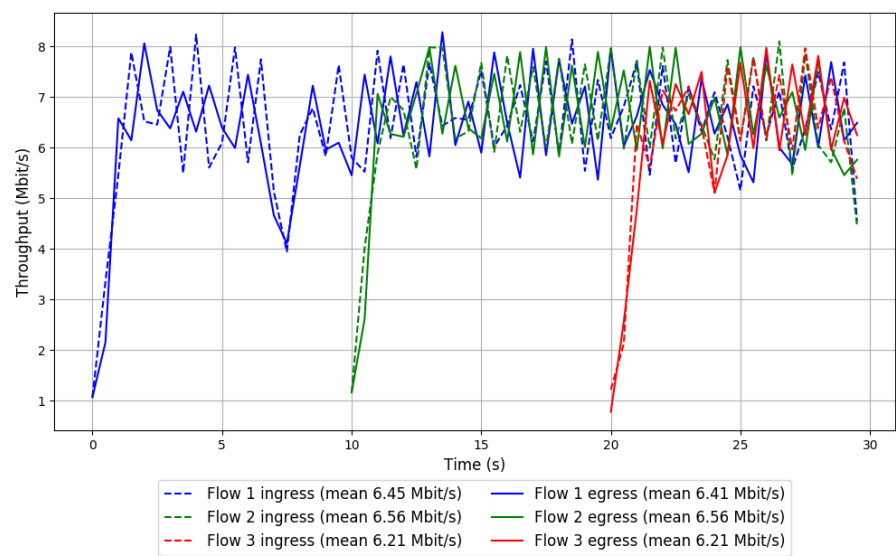
-- Flow 3:

Average throughput: 6.21 Mbit/s

95th percentile per-packet one-way delay: 64.455 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-17 10:00:43

End at: 2017-11-17 10:01:13

Below is generated by plot.py at 2017-11-17 11:51:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.60 Mbit/s

95th percentile per-packet one-way delay: 64.388 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 6.37 Mbit/s

95th percentile per-packet one-way delay: 64.416 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 6.35 Mbit/s

95th percentile per-packet one-way delay: 64.383 ms

Loss rate: 0.77%

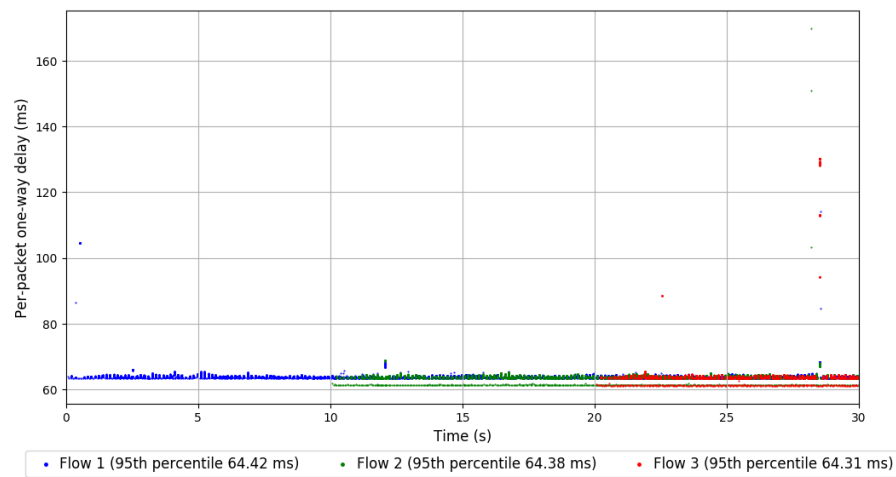
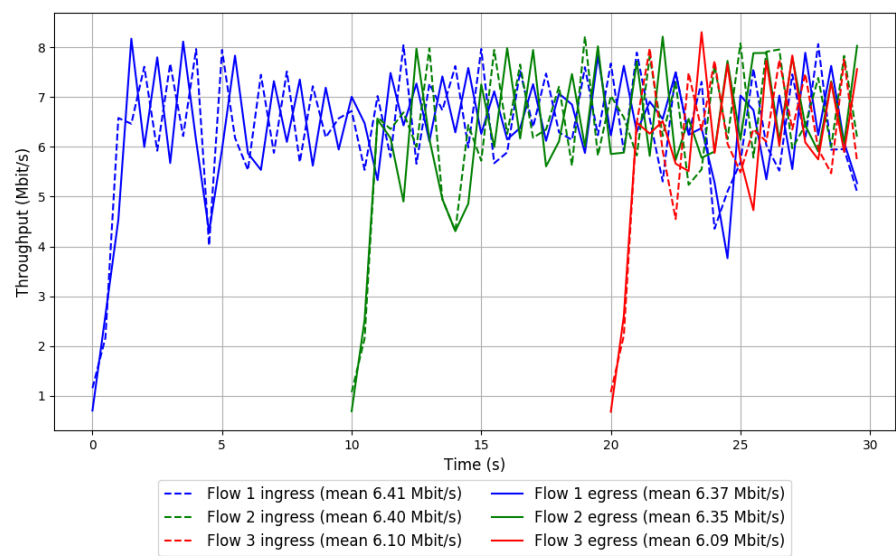
-- Flow 3:

Average throughput: 6.09 Mbit/s

95th percentile per-packet one-way delay: 64.315 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-17 10:12:53

End at: 2017-11-17 10:13:23

Below is generated by plot.py at 2017-11-17 11:51:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.92 Mbit/s

95th percentile per-packet one-way delay: 62.569 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 6.47 Mbit/s

95th percentile per-packet one-way delay: 62.497 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 6.60 Mbit/s

95th percentile per-packet one-way delay: 63.256 ms

Loss rate: 0.04%

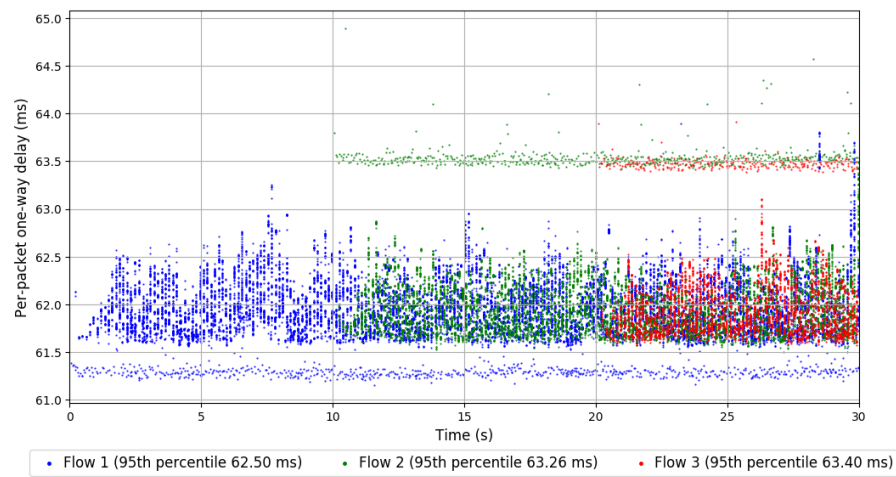
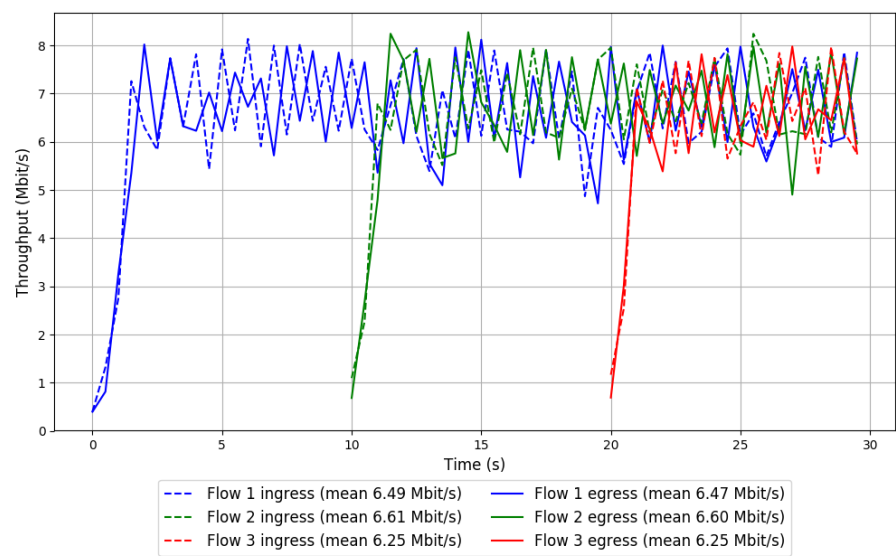
-- Flow 3:

Average throughput: 6.25 Mbit/s

95th percentile per-packet one-way delay: 63.400 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

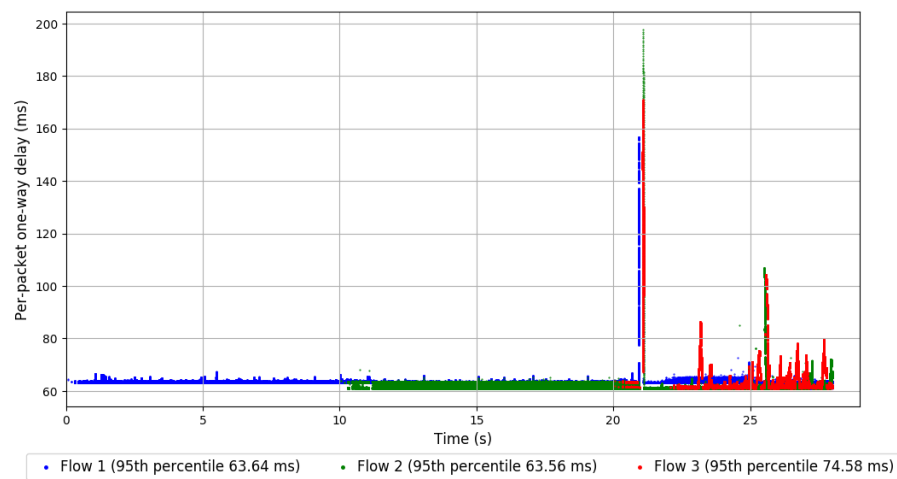
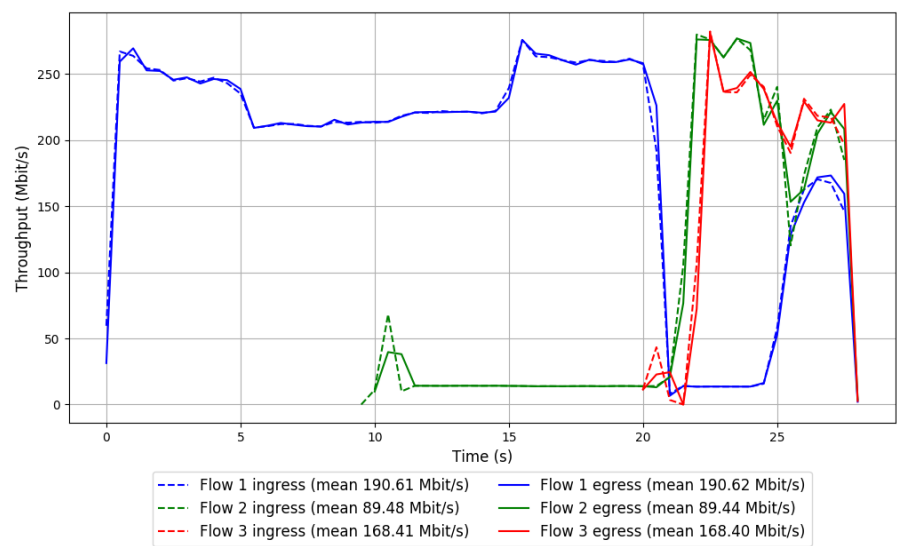


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-17 08:16:49
End at: 2017-11-17 08:17:19

# Below is generated by plot.py at 2017-11-17 11:54:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 295.89 Mbit/s
95th percentile per-packet one-way delay: 64.329 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 190.62 Mbit/s
95th percentile per-packet one-way delay: 63.637 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 89.44 Mbit/s
95th percentile per-packet one-way delay: 63.558 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 168.40 Mbit/s
95th percentile per-packet one-way delay: 74.576 ms
Loss rate: 0.00%
```


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

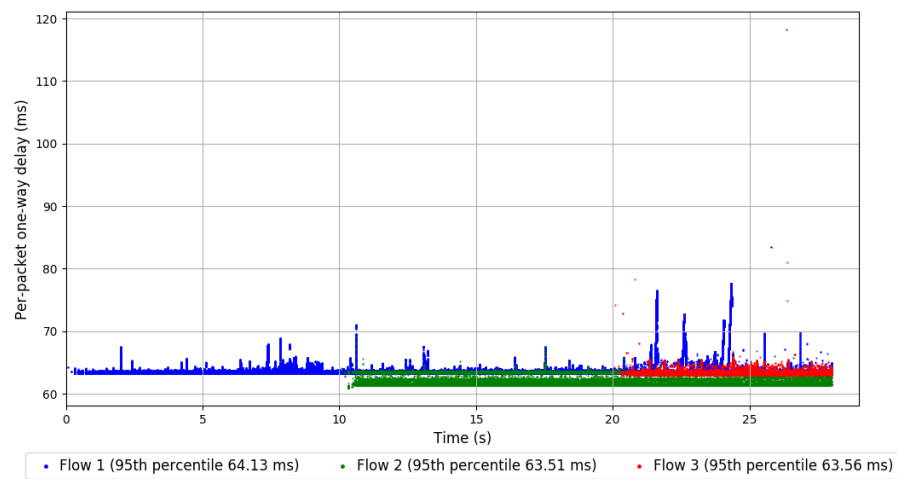
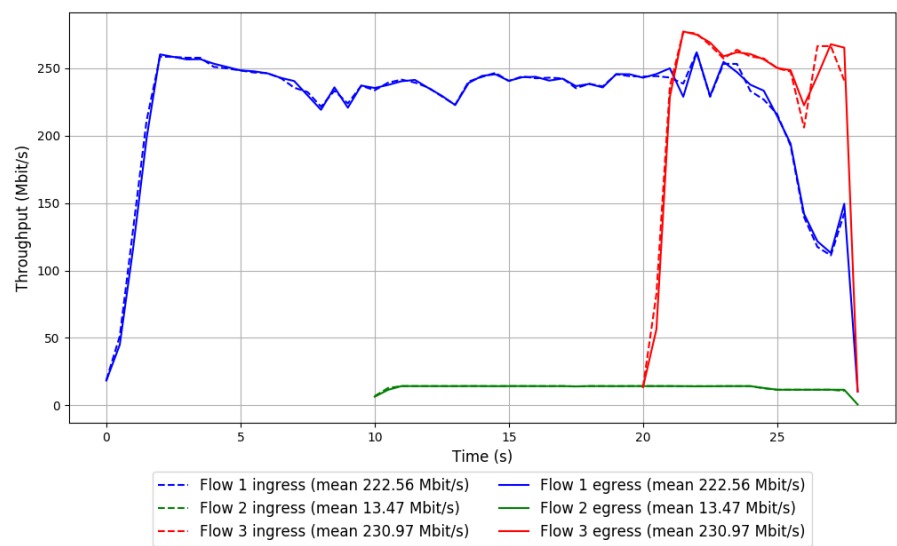


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-17 08:29:10
End at: 2017-11-17 08:29:40

# Below is generated by plot.py at 2017-11-17 11:54:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 296.79 Mbit/s
95th percentile per-packet one-way delay: 63.878 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 222.56 Mbit/s
95th percentile per-packet one-way delay: 64.130 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.47 Mbit/s
95th percentile per-packet one-way delay: 63.507 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 230.97 Mbit/s
95th percentile per-packet one-way delay: 63.556 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-11-17 08:41:42

End at: 2017-11-17 08:42:12

Below is generated by plot.py at 2017-11-17 11:56:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 362.93 Mbit/s

95th percentile per-packet one-way delay: 64.405 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 187.66 Mbit/s

95th percentile per-packet one-way delay: 64.587 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 173.33 Mbit/s

95th percentile per-packet one-way delay: 64.206 ms

Loss rate: 0.03%

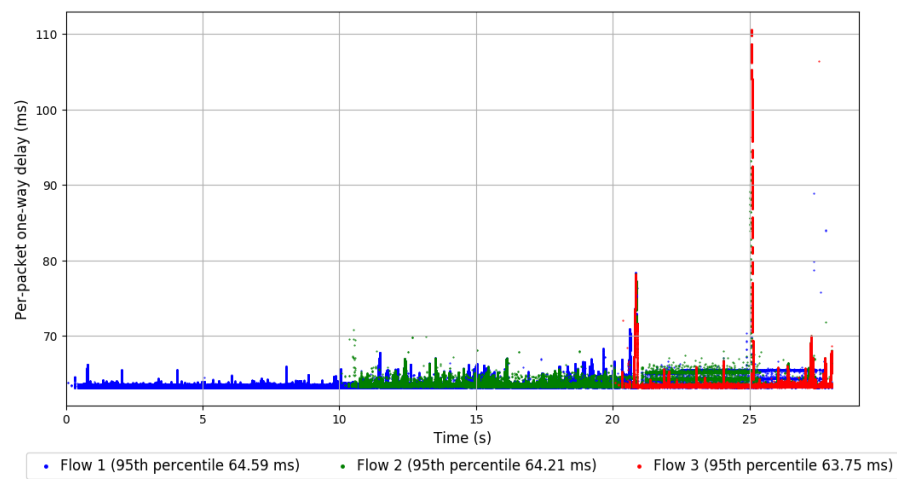
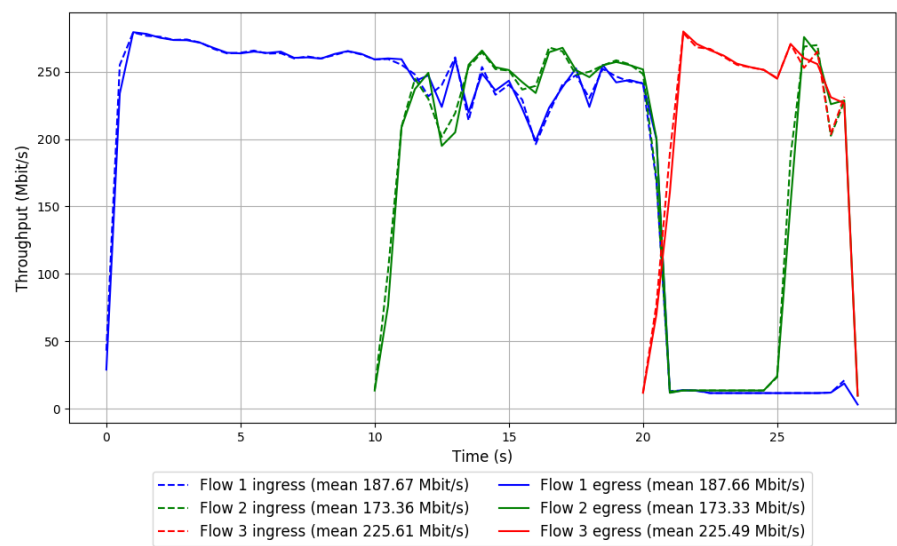
-- Flow 3:

Average throughput: 225.49 Mbit/s

95th percentile per-packet one-way delay: 63.747 ms

Loss rate: 0.06%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-11-17 08:54:05

End at: 2017-11-17 08:54:35

Below is generated by plot.py at 2017-11-17 11:56:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 331.93 Mbit/s

95th percentile per-packet one-way delay: 63.547 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 149.04 Mbit/s

95th percentile per-packet one-way delay: 63.470 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 155.63 Mbit/s

95th percentile per-packet one-way delay: 63.597 ms

Loss rate: 0.00%

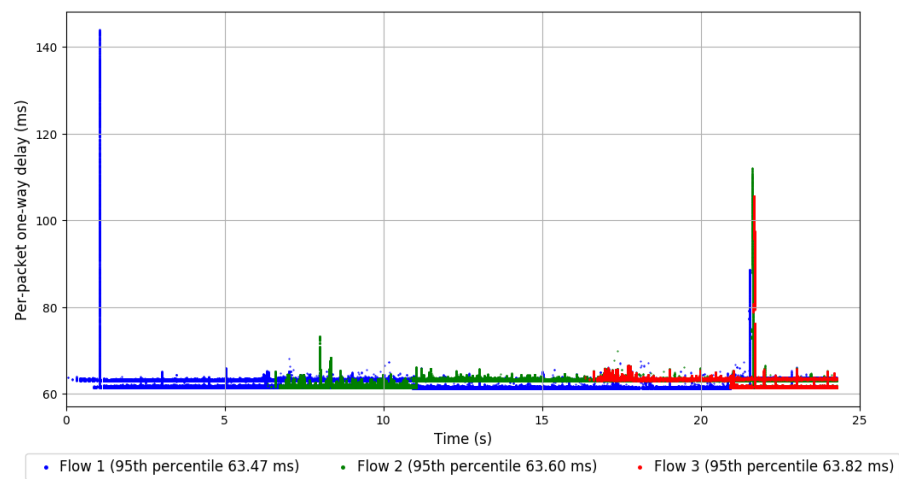
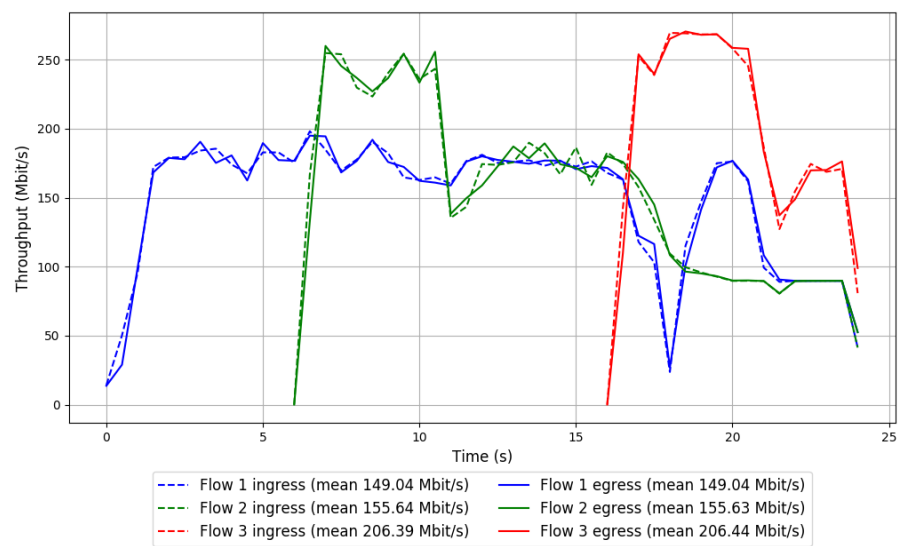
-- Flow 3:

Average throughput: 206.44 Mbit/s

95th percentile per-packet one-way delay: 63.817 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-11-17 09:06:25

End at: 2017-11-17 09:06:55

Below is generated by plot.py at 2017-11-17 11:56:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 366.38 Mbit/s

95th percentile per-packet one-way delay: 64.509 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 248.90 Mbit/s

95th percentile per-packet one-way delay: 63.933 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 54.17 Mbit/s

95th percentile per-packet one-way delay: 64.632 ms

Loss rate: 0.00%

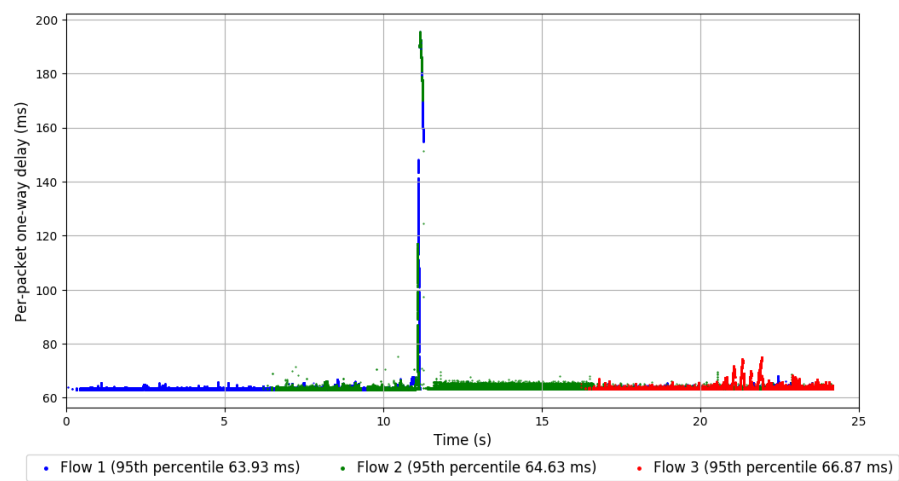
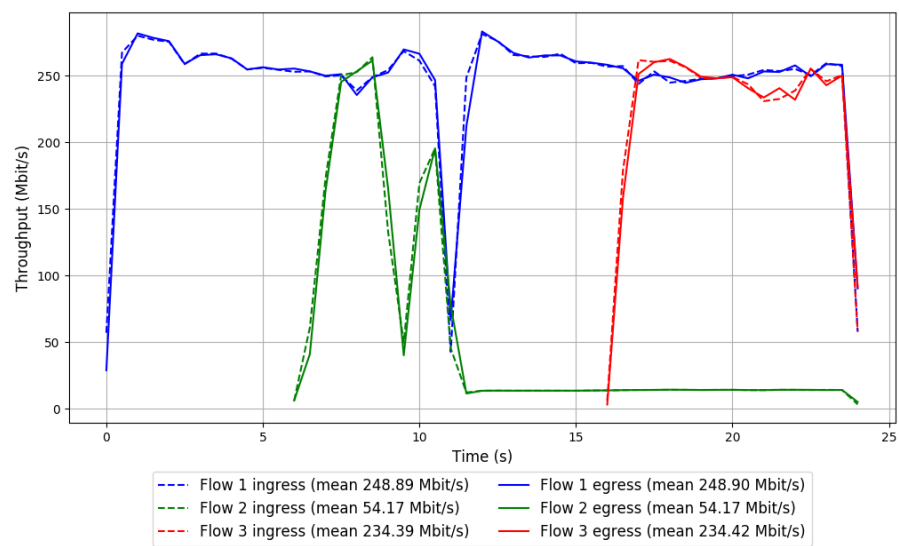
-- Flow 3:

Average throughput: 234.42 Mbit/s

95th percentile per-packet one-way delay: 66.868 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-17 09:18:42

End at: 2017-11-17 09:19:12

Below is generated by plot.py at 2017-11-17 11:56:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 186.63 Mbit/s

95th percentile per-packet one-way delay: 63.534 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 126.63 Mbit/s

95th percentile per-packet one-way delay: 63.550 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 13.20 Mbit/s

95th percentile per-packet one-way delay: 63.516 ms

Loss rate: 0.01%

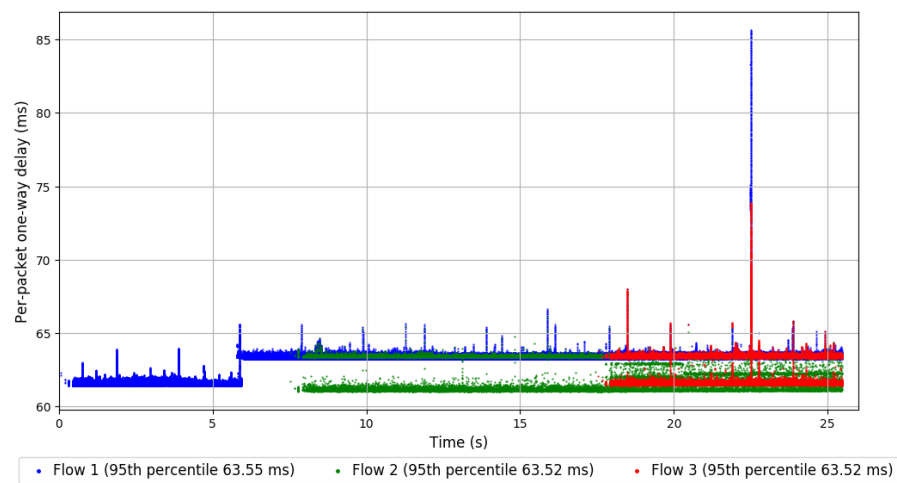
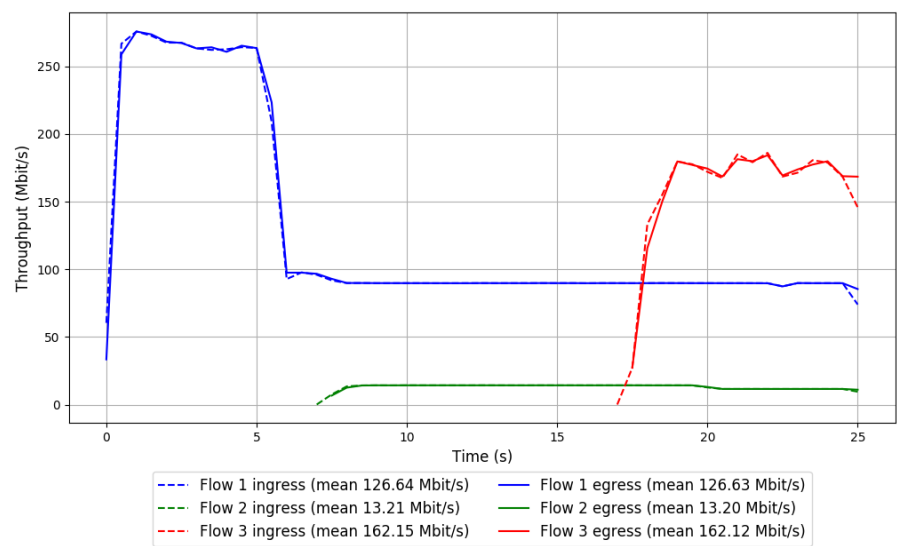
-- Flow 3:

Average throughput: 162.12 Mbit/s

95th percentile per-packet one-way delay: 63.515 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-11-17 09:30:42

End at: 2017-11-17 09:31:12

Below is generated by plot.py at 2017-11-17 11:59:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 297.18 Mbit/s

95th percentile per-packet one-way delay: 63.647 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 104.79 Mbit/s

95th percentile per-packet one-way delay: 63.638 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 206.92 Mbit/s

95th percentile per-packet one-way delay: 63.678 ms

Loss rate: 0.00%

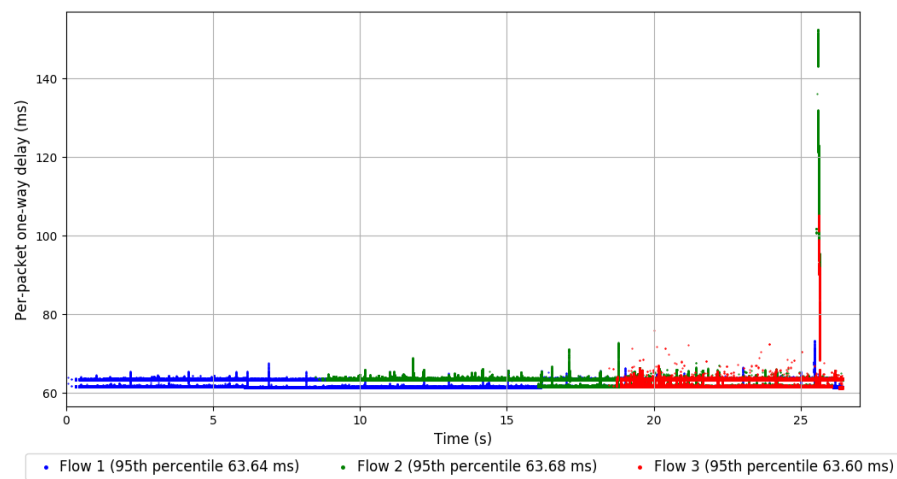
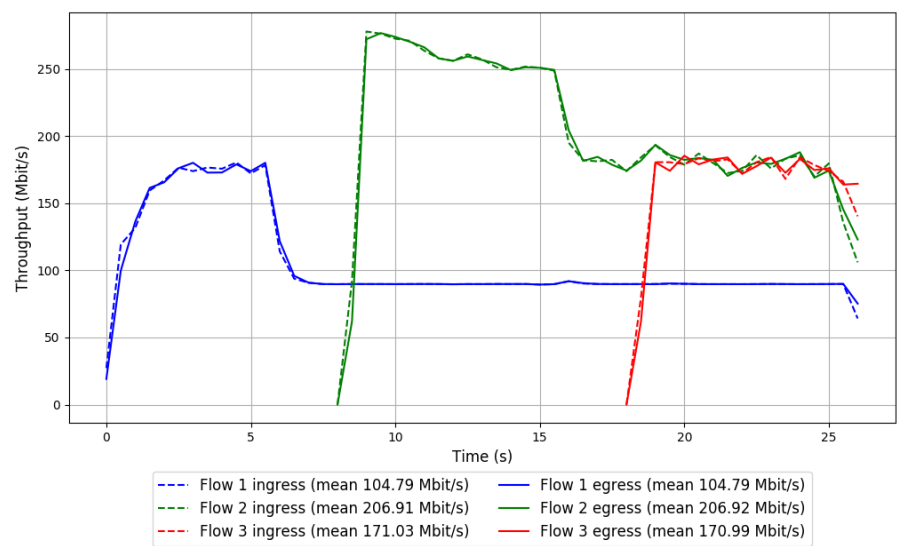
-- Flow 3:

Average throughput: 170.99 Mbit/s

95th percentile per-packet one-way delay: 63.600 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-17 09:42:52

End at: 2017-11-17 09:43:22

Below is generated by plot.py at 2017-11-17 12:01:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 329.93 Mbit/s

95th percentile per-packet one-way delay: 63.996 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 206.58 Mbit/s

95th percentile per-packet one-way delay: 63.915 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 186.29 Mbit/s

95th percentile per-packet one-way delay: 64.112 ms

Loss rate: 0.00%

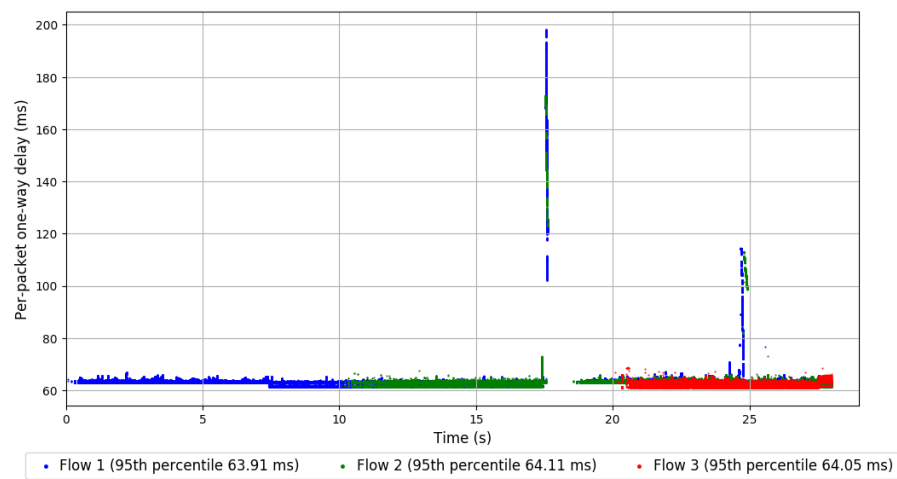
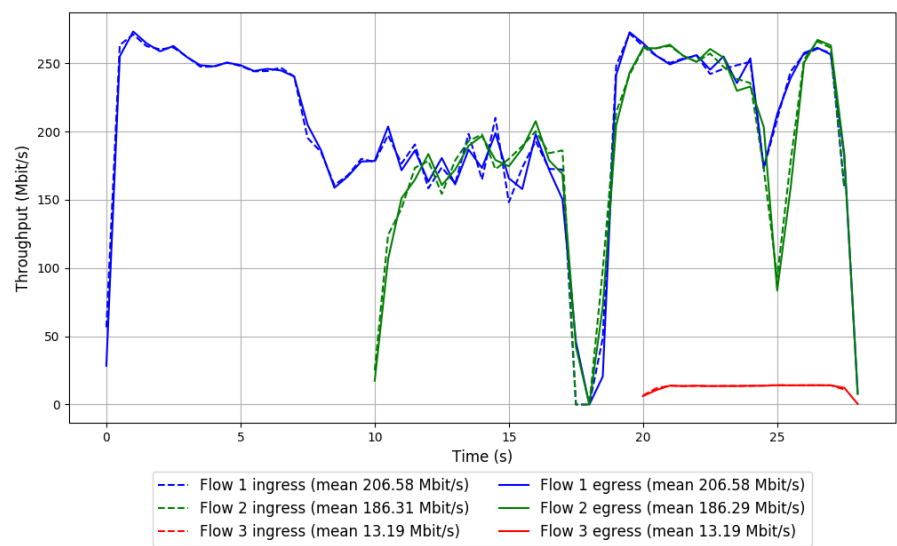
-- Flow 3:

Average throughput: 13.19 Mbit/s

95th percentile per-packet one-way delay: 64.053 ms

Loss rate: 0.01%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-11-17 09:55:25

End at: 2017-11-17 09:55:55

Below is generated by plot.py at 2017-11-17 12:02:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 372.46 Mbit/s

95th percentile per-packet one-way delay: 68.184 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 212.71 Mbit/s

95th percentile per-packet one-way delay: 69.110 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 166.27 Mbit/s

95th percentile per-packet one-way delay: 67.806 ms

Loss rate: 0.00%

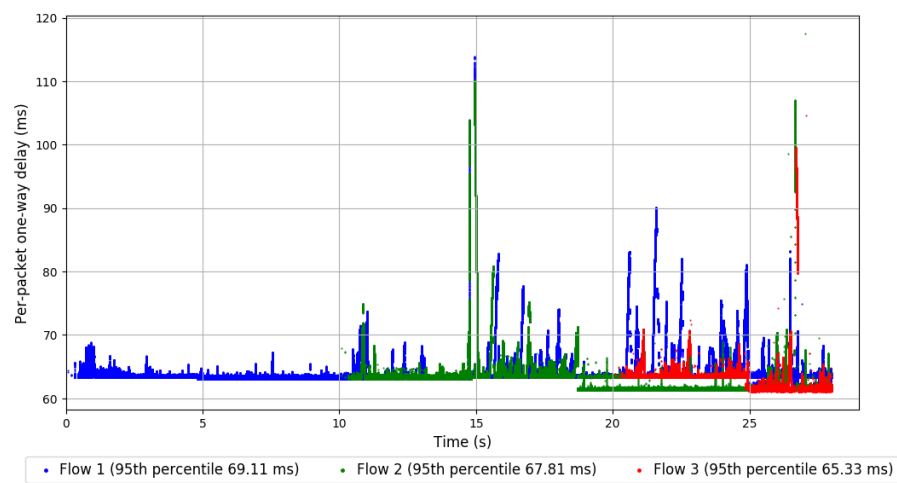
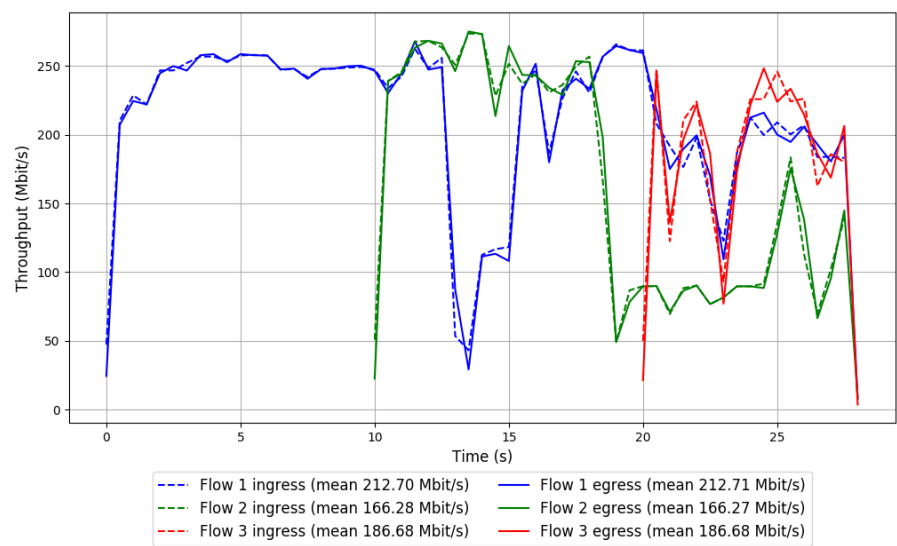
-- Flow 3:

Average throughput: 186.68 Mbit/s

95th percentile per-packet one-way delay: 65.331 ms

Loss rate: 0.00%

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

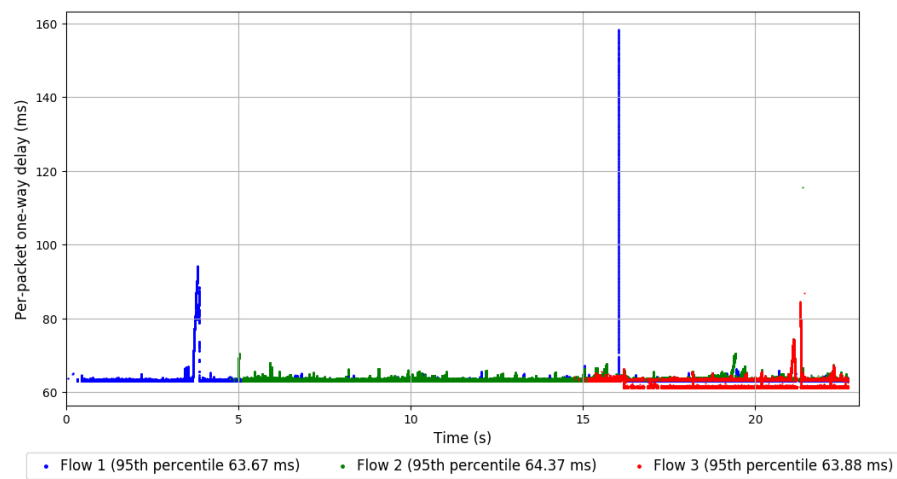
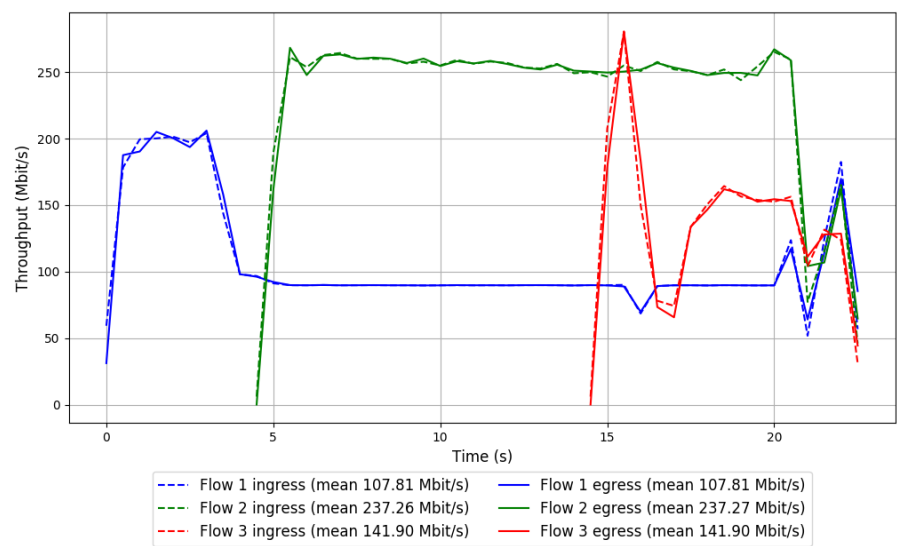


Run 10: Statistics of TaoVA-100x

Start at: 2017-11-17 10:07:48

End at: 2017-11-17 10:08:18

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



Run 1: Statistics of TCP Vegas

Start at: 2017-11-17 08:17:57

End at: 2017-11-17 08:18:27

Below is generated by plot.py at 2017-11-17 12:02:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 100.39 Mbit/s

95th percentile per-packet one-way delay: 64.894 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 10.91 Mbit/s

95th percentile per-packet one-way delay: 64.246 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 119.31 Mbit/s

95th percentile per-packet one-way delay: 65.030 ms

Loss rate: 0.00%

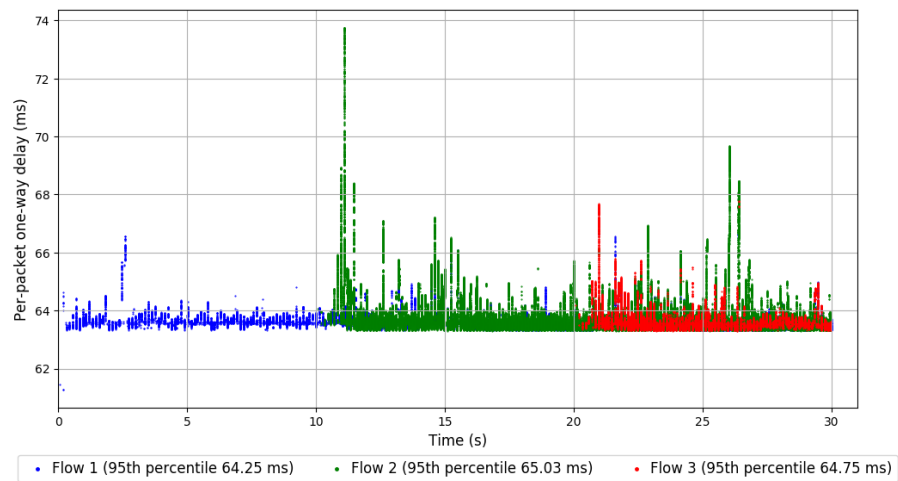
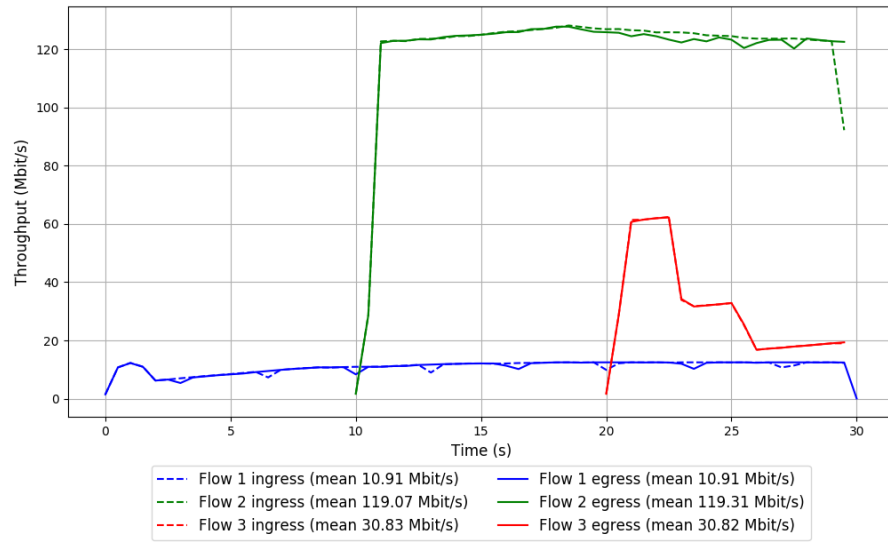
-- Flow 3:

Average throughput: 30.82 Mbit/s

95th percentile per-packet one-way delay: 64.751 ms

Loss rate: 0.02%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-17 08:30:17

End at: 2017-11-17 08:30:47

Below is generated by plot.py at 2017-11-17 12:02:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 202.88 Mbit/s

95th percentile per-packet one-way delay: 65.933 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 103.99 Mbit/s

95th percentile per-packet one-way delay: 65.321 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 92.14 Mbit/s

95th percentile per-packet one-way delay: 66.692 ms

Loss rate: 0.00%

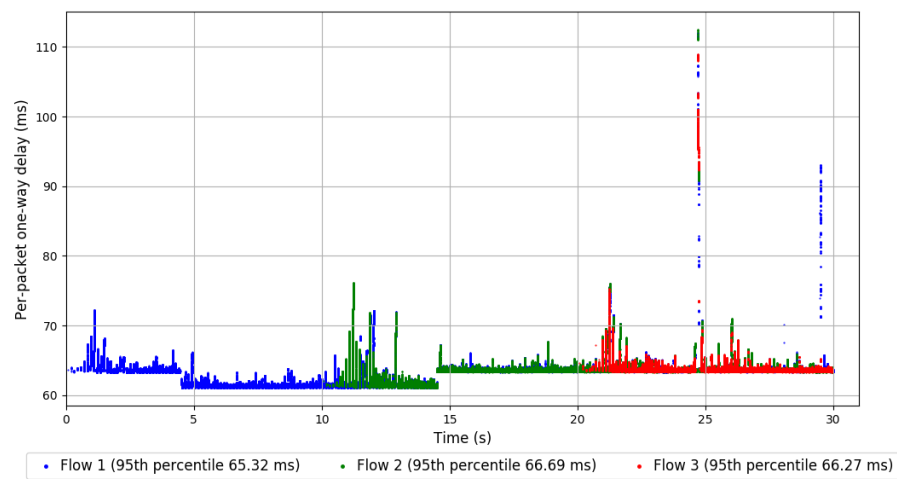
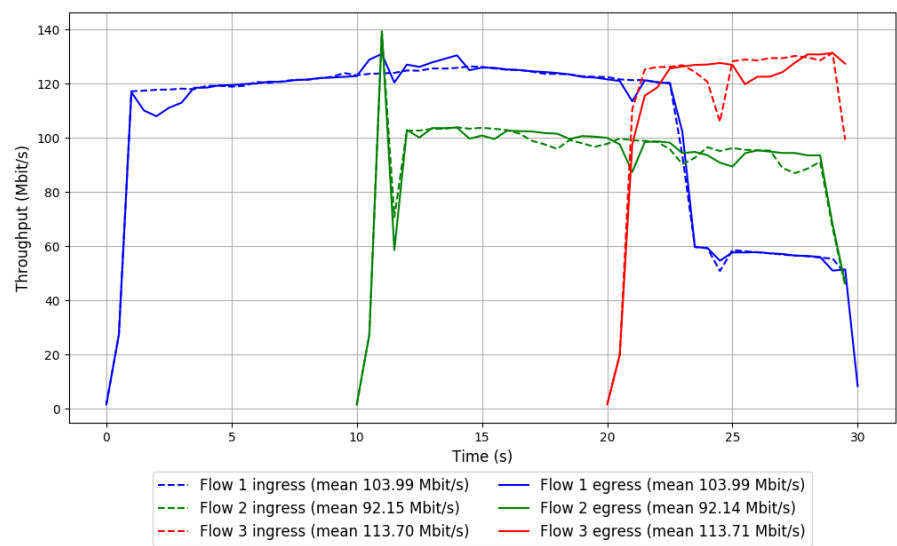
-- Flow 3:

Average throughput: 113.71 Mbit/s

95th percentile per-packet one-way delay: 66.267 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-11-17 08:42:57

End at: 2017-11-17 08:43:27

Below is generated by plot.py at 2017-11-17 12:02:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 151.65 Mbit/s

95th percentile per-packet one-way delay: 68.504 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 104.22 Mbit/s

95th percentile per-packet one-way delay: 68.995 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 55.76 Mbit/s

95th percentile per-packet one-way delay: 64.048 ms

Loss rate: 0.01%

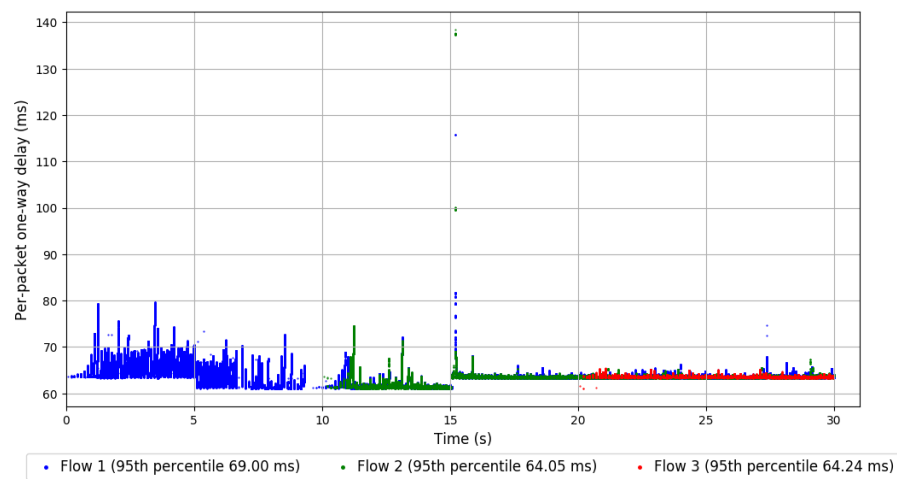
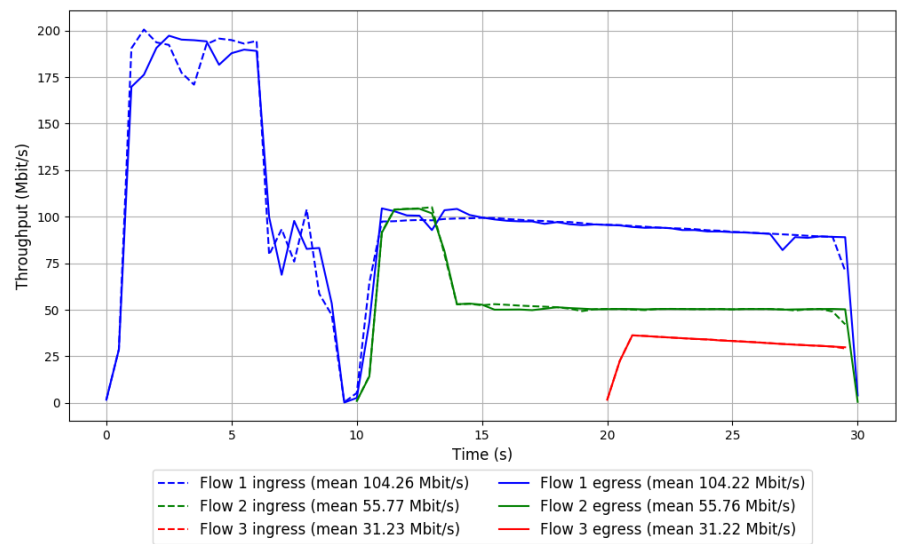
-- Flow 3:

Average throughput: 31.22 Mbit/s

95th percentile per-packet one-way delay: 64.238 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-17 08:55:13

End at: 2017-11-17 08:55:43

Below is generated by plot.py at 2017-11-17 12:02:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 158.34 Mbit/s

95th percentile per-packet one-way delay: 72.865 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 29.84 Mbit/s

95th percentile per-packet one-way delay: 71.314 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 178.93 Mbit/s

95th percentile per-packet one-way delay: 73.357 ms

Loss rate: 0.00%

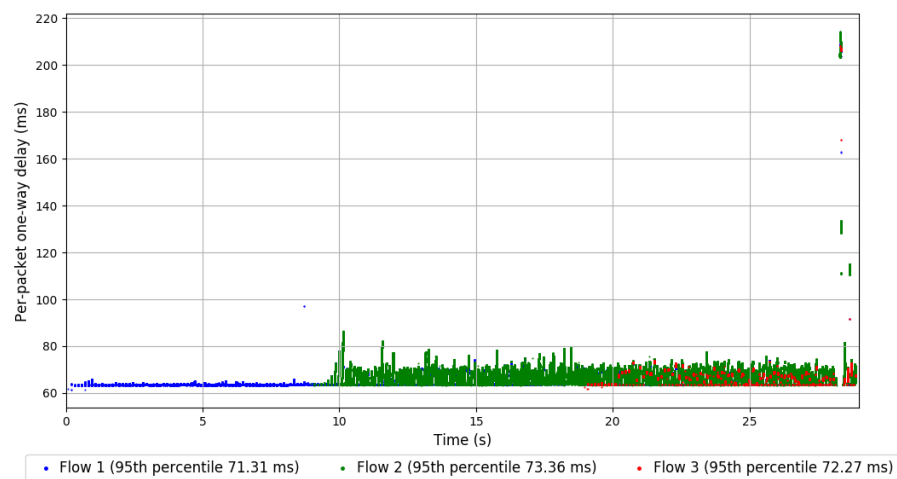
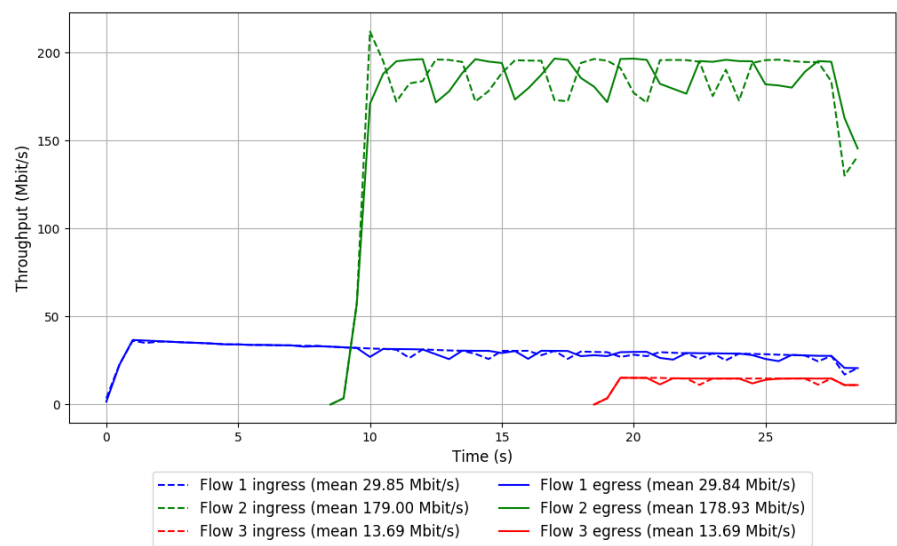
-- Flow 3:

Average throughput: 13.69 Mbit/s

95th percentile per-packet one-way delay: 72.274 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-11-17 09:07:35

End at: 2017-11-17 09:08:05

Below is generated by plot.py at 2017-11-17 12:02:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.69 Mbit/s

95th percentile per-packet one-way delay: 64.595 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 76.46 Mbit/s

95th percentile per-packet one-way delay: 64.573 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 5.89 Mbit/s

95th percentile per-packet one-way delay: 63.741 ms

Loss rate: 0.10%

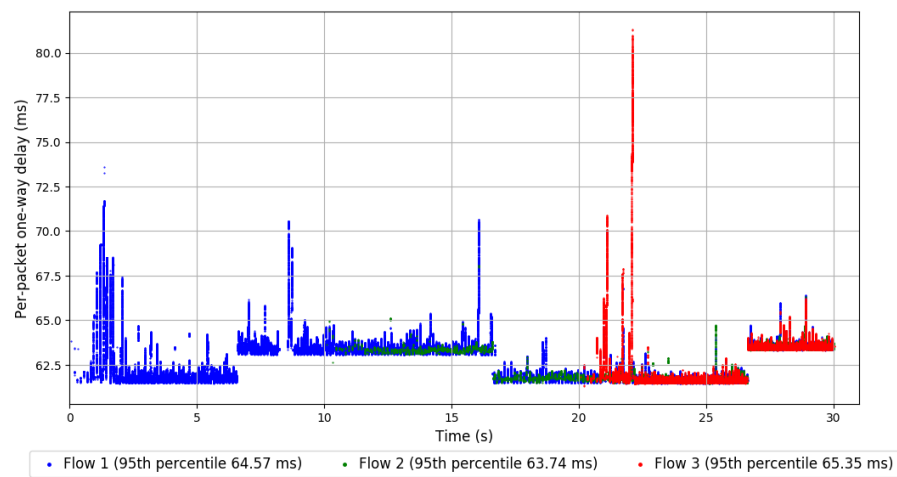
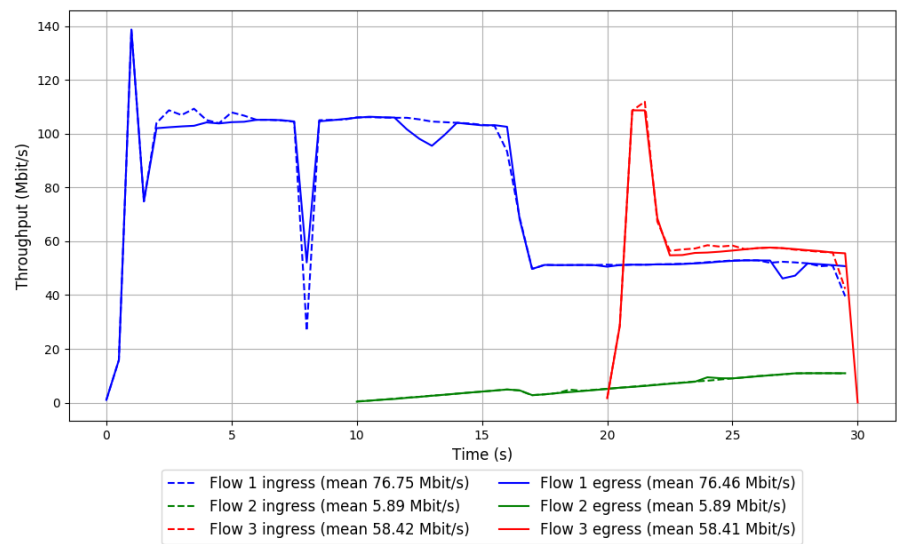
-- Flow 3:

Average throughput: 58.41 Mbit/s

95th percentile per-packet one-way delay: 65.352 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-17 09:19:38

End at: 2017-11-17 09:20:08

Below is generated by plot.py at 2017-11-17 12:02:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.11 Mbit/s

95th percentile per-packet one-way delay: 64.914 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 47.07 Mbit/s

95th percentile per-packet one-way delay: 64.436 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 81.92 Mbit/s

95th percentile per-packet one-way delay: 64.898 ms

Loss rate: 0.04%

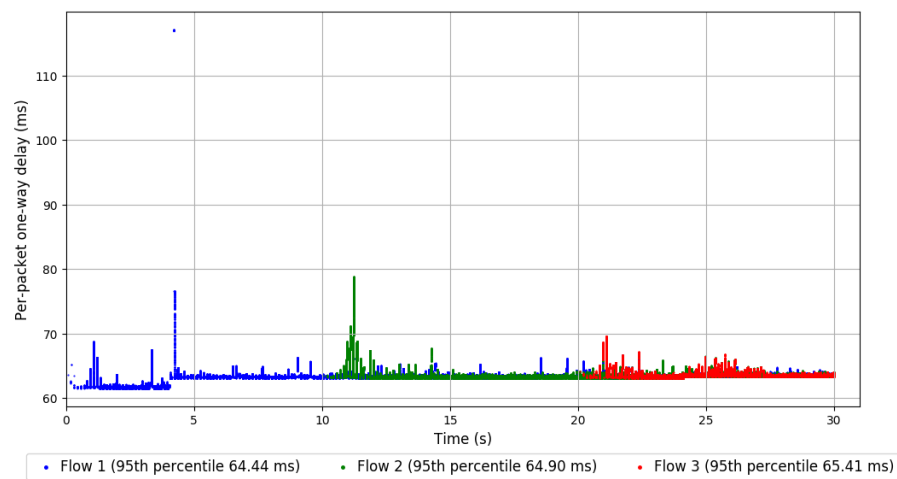
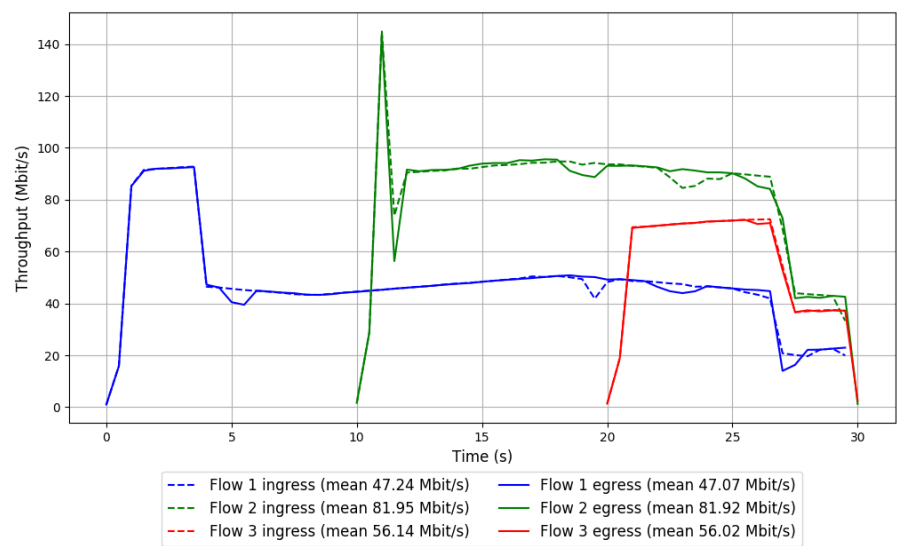
-- Flow 3:

Average throughput: 56.02 Mbit/s

95th percentile per-packet one-way delay: 65.411 ms

Loss rate: 0.22%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-11-17 09:31:48

End at: 2017-11-17 09:32:18

Below is generated by plot.py at 2017-11-17 12:02:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.47 Mbit/s

95th percentile per-packet one-way delay: 69.133 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 21.01 Mbit/s

95th percentile per-packet one-way delay: 64.916 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 10.44 Mbit/s

95th percentile per-packet one-way delay: 66.688 ms

Loss rate: 0.89%

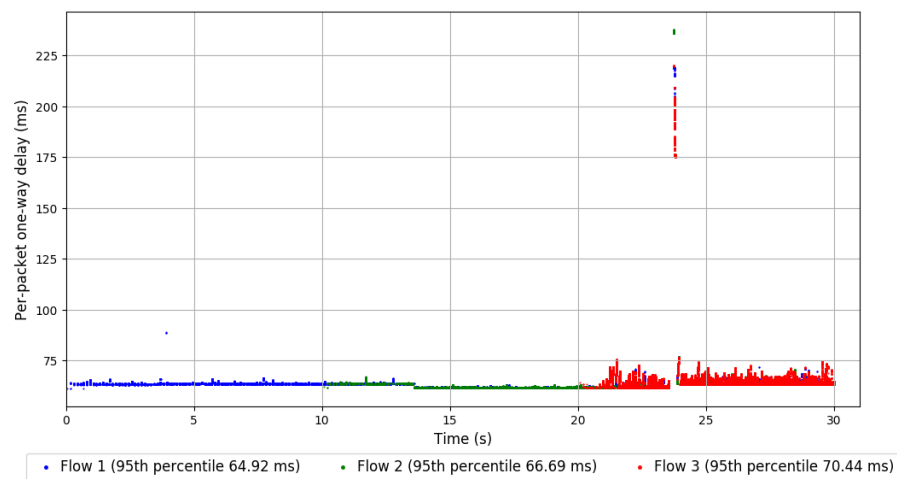
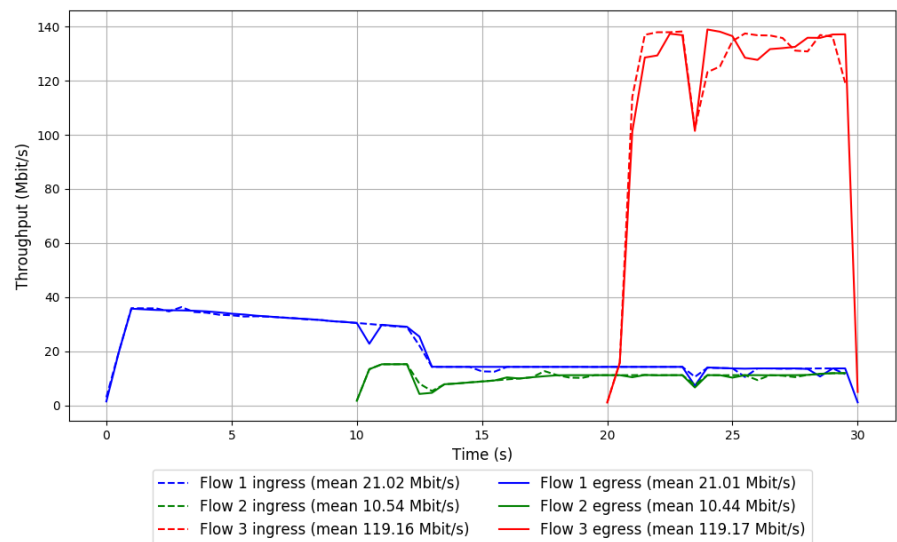
-- Flow 3:

Average throughput: 119.17 Mbit/s

95th percentile per-packet one-way delay: 70.445 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-11-17 09:44:03

End at: 2017-11-17 09:44:33

Below is generated by plot.py at 2017-11-17 12:02:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.61 Mbit/s

95th percentile per-packet one-way delay: 64.085 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 46.34 Mbit/s

95th percentile per-packet one-way delay: 64.172 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 19.17 Mbit/s

95th percentile per-packet one-way delay: 63.975 ms

Loss rate: 0.00%

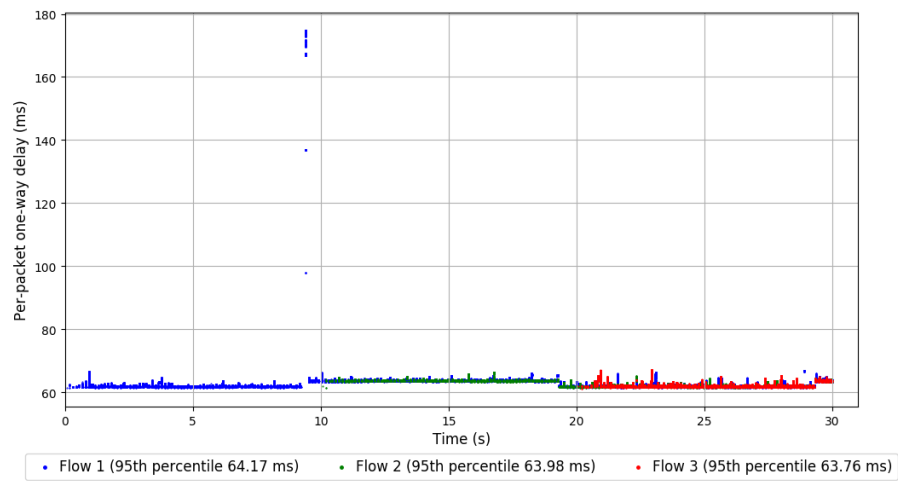
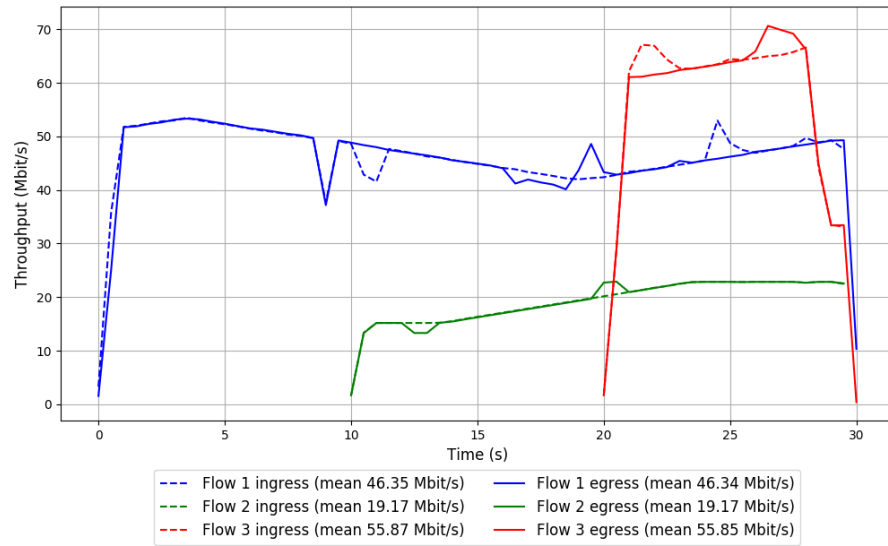
-- Flow 3:

Average throughput: 55.85 Mbit/s

95th percentile per-packet one-way delay: 63.764 ms

Loss rate: 0.02%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-11-17 09:56:40

End at: 2017-11-17 09:57:10

Below is generated by plot.py at 2017-11-17 12:02:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 166.48 Mbit/s

95th percentile per-packet one-way delay: 70.133 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 104.24 Mbit/s

95th percentile per-packet one-way delay: 71.189 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.68 Mbit/s

95th percentile per-packet one-way delay: 66.907 ms

Loss rate: 0.01%

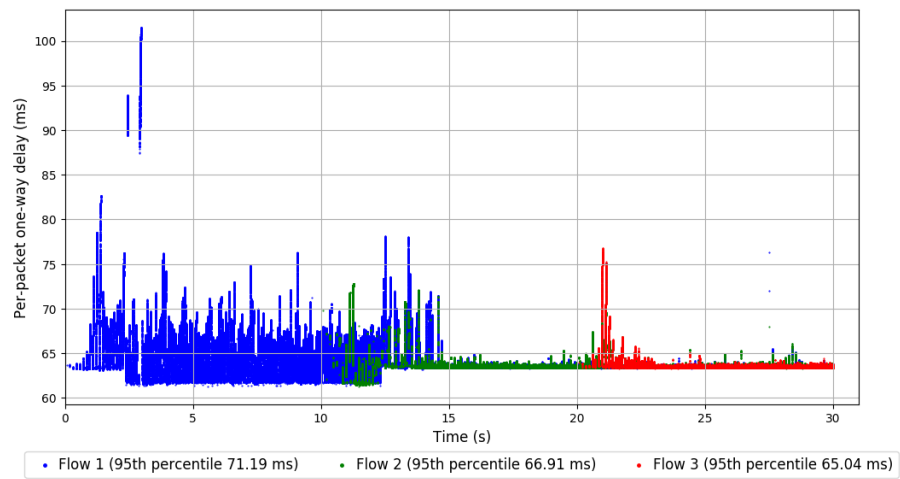
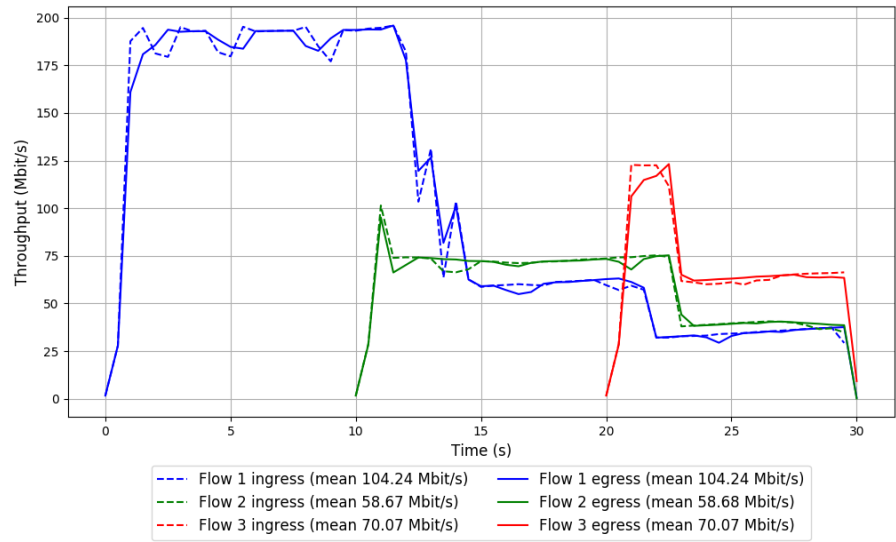
-- Flow 3:

Average throughput: 70.07 Mbit/s

95th percentile per-packet one-way delay: 65.041 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-17 10:08:56

End at: 2017-11-17 10:09:26

Below is generated by plot.py at 2017-11-17 12:02:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 122.90 Mbit/s

95th percentile per-packet one-way delay: 69.746 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 46.14 Mbit/s

95th percentile per-packet one-way delay: 64.546 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 53.69 Mbit/s

95th percentile per-packet one-way delay: 67.931 ms

Loss rate: 0.01%

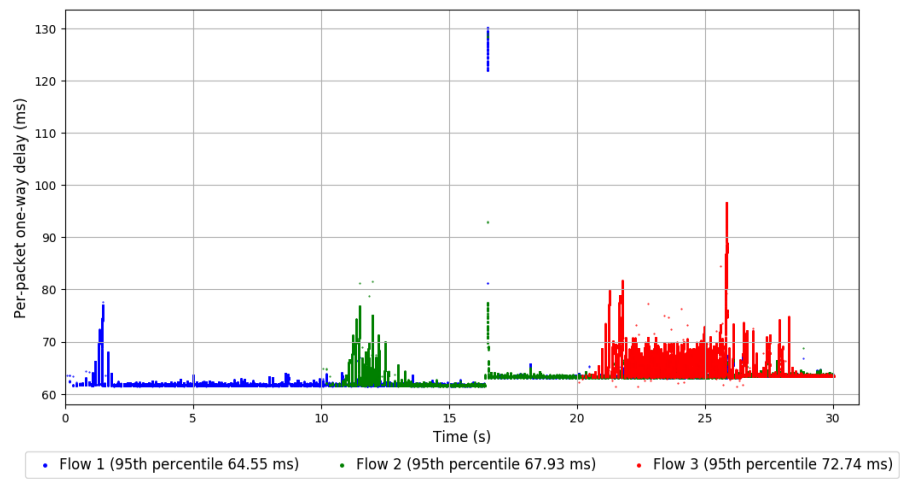
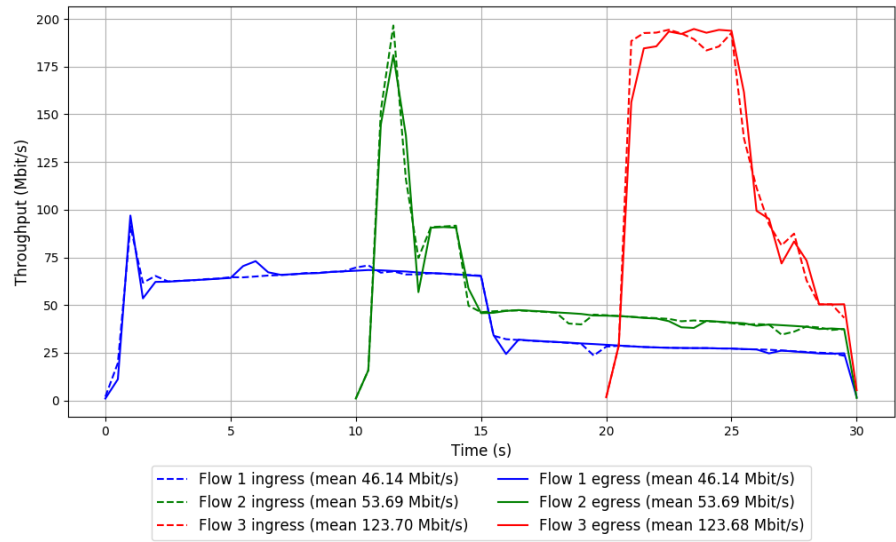
-- Flow 3:

Average throughput: 123.68 Mbit/s

95th percentile per-packet one-way delay: 72.742 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

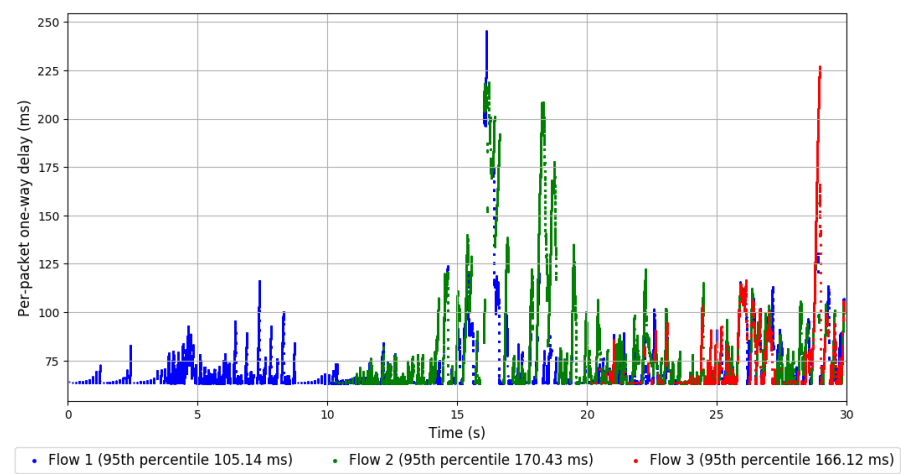
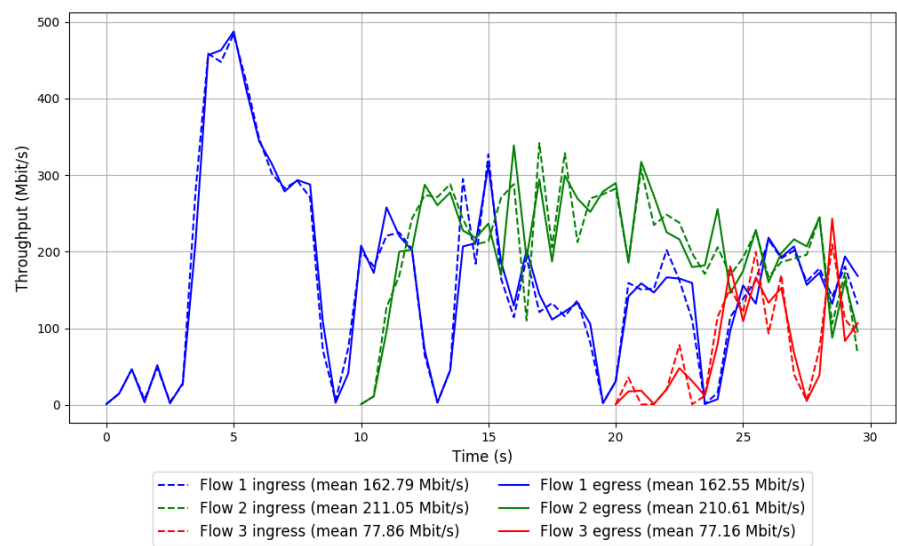


```
Run 1: Statistics of Verus

Start at: 2017-11-17 08:19:26
End at: 2017-11-17 08:19:56

# Below is generated by plot.py at 2017-11-17 12:04:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 327.71 Mbit/s
95th percentile per-packet one-way delay: 135.338 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 162.55 Mbit/s
95th percentile per-packet one-way delay: 105.145 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 210.61 Mbit/s
95th percentile per-packet one-way delay: 170.434 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 77.16 Mbit/s
95th percentile per-packet one-way delay: 166.118 ms
Loss rate: 0.91%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-17 08:31:52

End at: 2017-11-17 08:32:22

Below is generated by plot.py at 2017-11-17 12:04:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 291.76 Mbit/s

95th percentile per-packet one-way delay: 144.105 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 144.79 Mbit/s

95th percentile per-packet one-way delay: 118.675 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 183.36 Mbit/s

95th percentile per-packet one-way delay: 171.630 ms

Loss rate: 0.89%

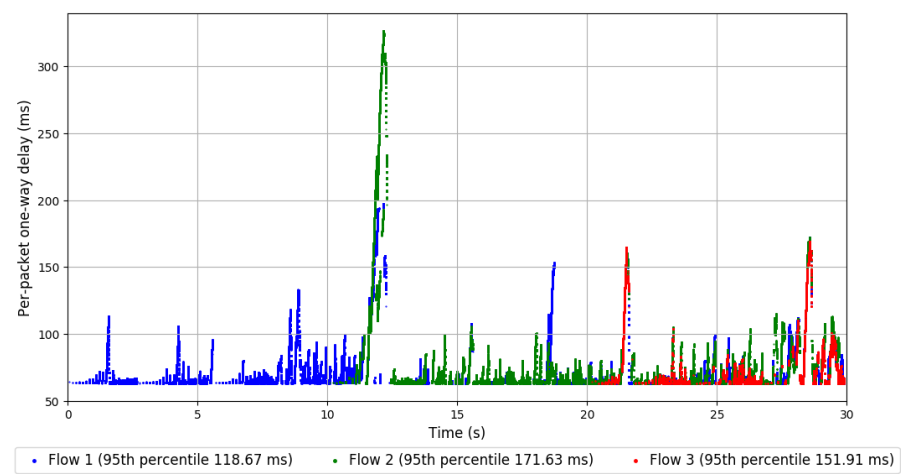
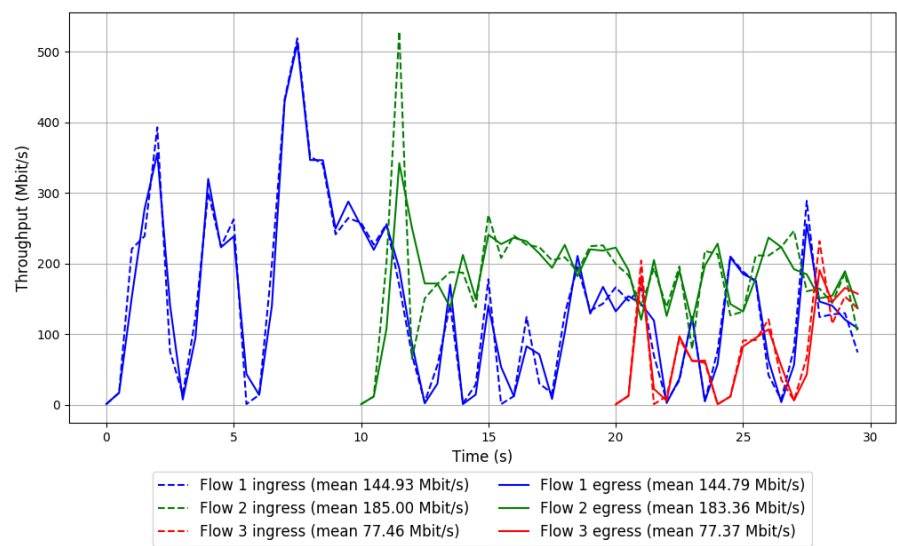
-- Flow 3:

Average throughput: 77.37 Mbit/s

95th percentile per-packet one-way delay: 151.910 ms

Loss rate: 0.12%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-17 08:44:29

End at: 2017-11-17 08:44:59

Below is generated by plot.py at 2017-11-17 12:05:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 340.62 Mbit/s

95th percentile per-packet one-way delay: 152.449 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 199.39 Mbit/s

95th percentile per-packet one-way delay: 142.305 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 148.70 Mbit/s

95th percentile per-packet one-way delay: 161.773 ms

Loss rate: 0.01%

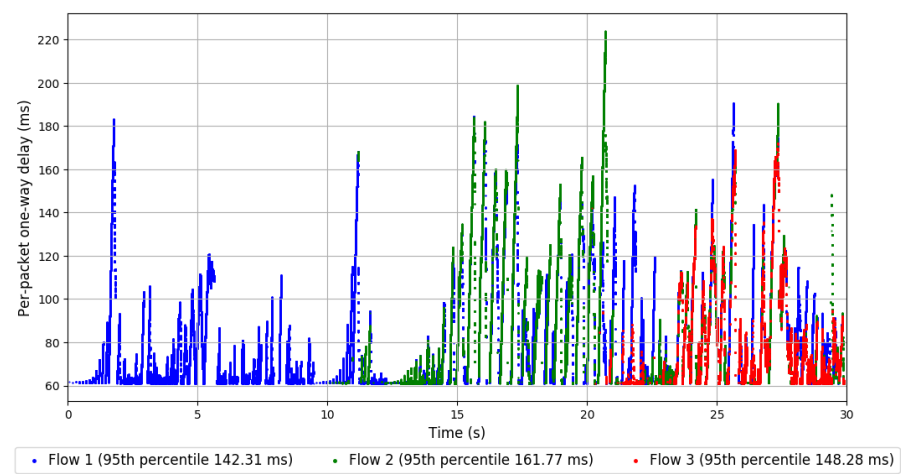
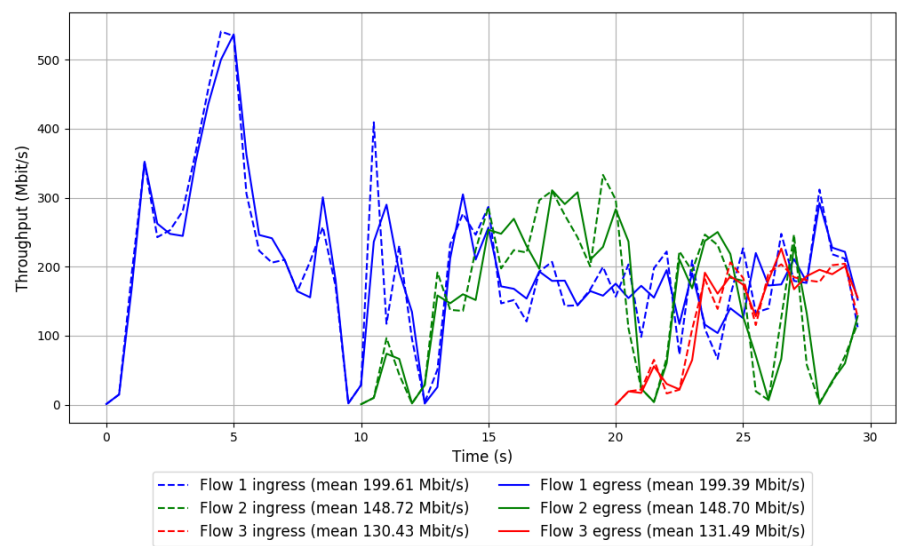
-- Flow 3:

Average throughput: 131.49 Mbit/s

95th percentile per-packet one-way delay: 148.277 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-17 08:56:45

End at: 2017-11-17 08:57:15

Below is generated by plot.py at 2017-11-17 12:07:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 389.40 Mbit/s

95th percentile per-packet one-way delay: 160.982 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 229.47 Mbit/s

95th percentile per-packet one-way delay: 160.536 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 205.49 Mbit/s

95th percentile per-packet one-way delay: 154.871 ms

Loss rate: 0.08%

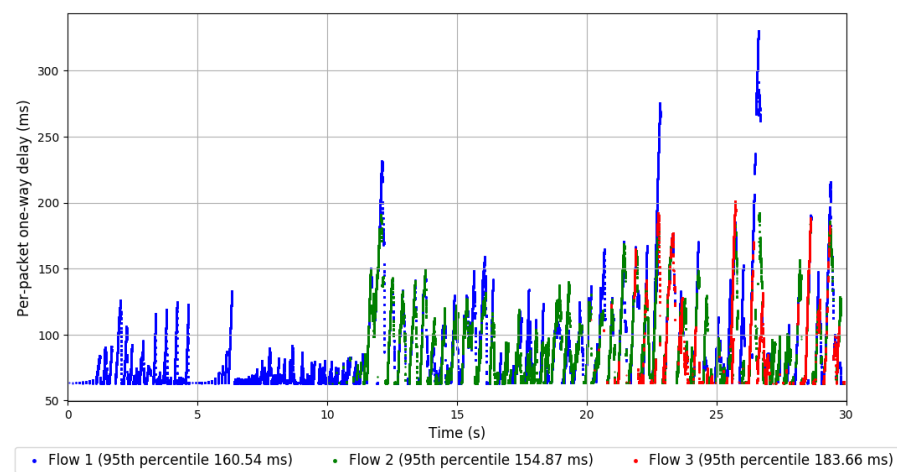
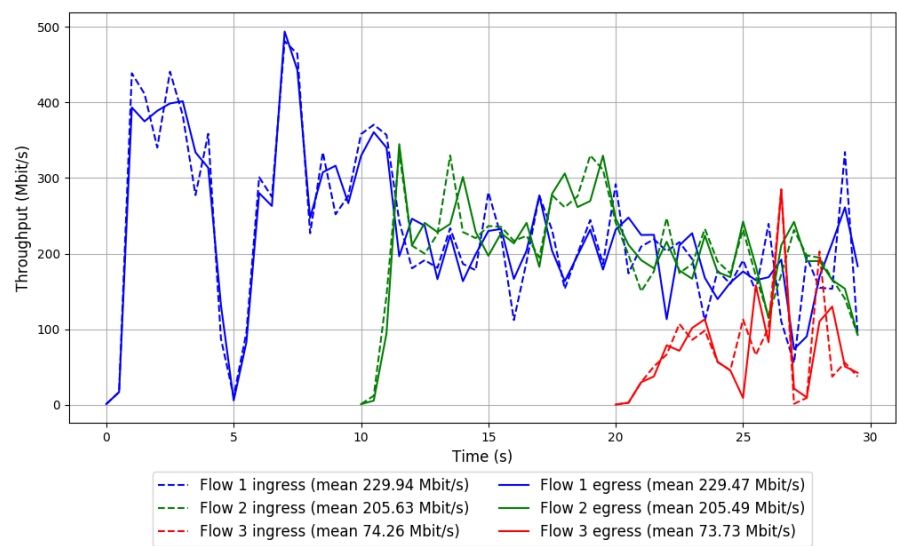
-- Flow 3:

Average throughput: 73.73 Mbit/s

95th percentile per-packet one-way delay: 183.657 ms

Loss rate: 1.19%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-17 09:09:03

End at: 2017-11-17 09:09:33

Below is generated by plot.py at 2017-11-17 12:07:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 331.29 Mbit/s

95th percentile per-packet one-way delay: 130.347 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 211.54 Mbit/s

95th percentile per-packet one-way delay: 116.084 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 116.51 Mbit/s

95th percentile per-packet one-way delay: 151.362 ms

Loss rate: 0.12%

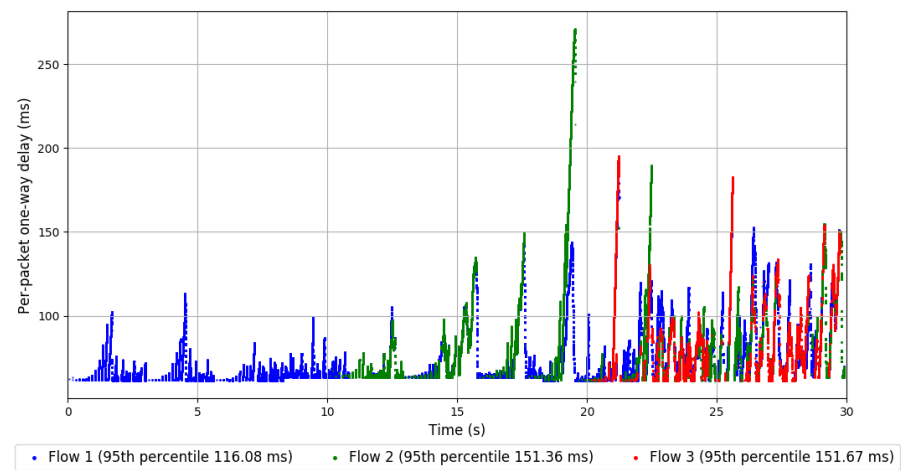
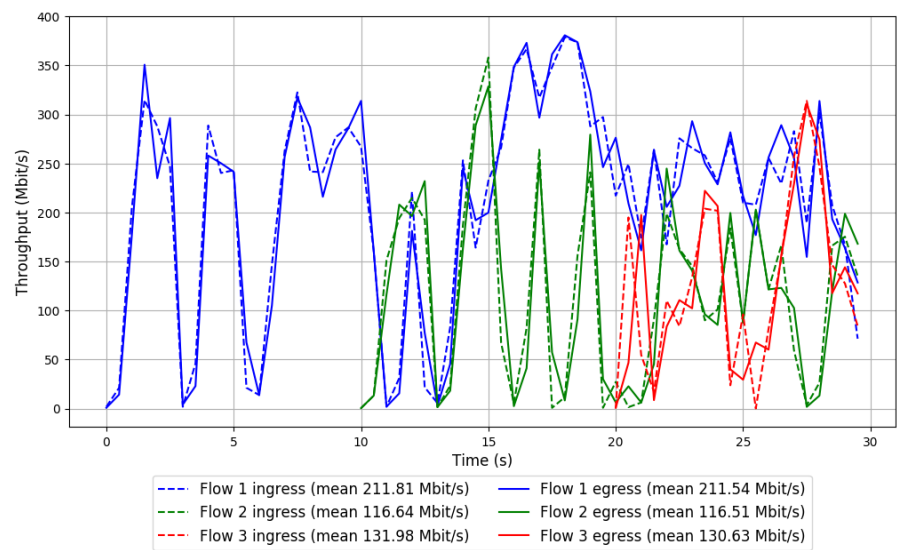
-- Flow 3:

Average throughput: 130.63 Mbit/s

95th percentile per-packet one-way delay: 151.670 ms

Loss rate: 0.23%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-11-17 09:21:08

End at: 2017-11-17 09:21:38

Below is generated by plot.py at 2017-11-17 12:07:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 333.11 Mbit/s

95th percentile per-packet one-way delay: 220.995 ms

Loss rate: 2.05%

-- Flow 1:

Average throughput: 126.45 Mbit/s

95th percentile per-packet one-way delay: 155.917 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 194.57 Mbit/s

95th percentile per-packet one-way delay: 233.547 ms

Loss rate: 1.49%

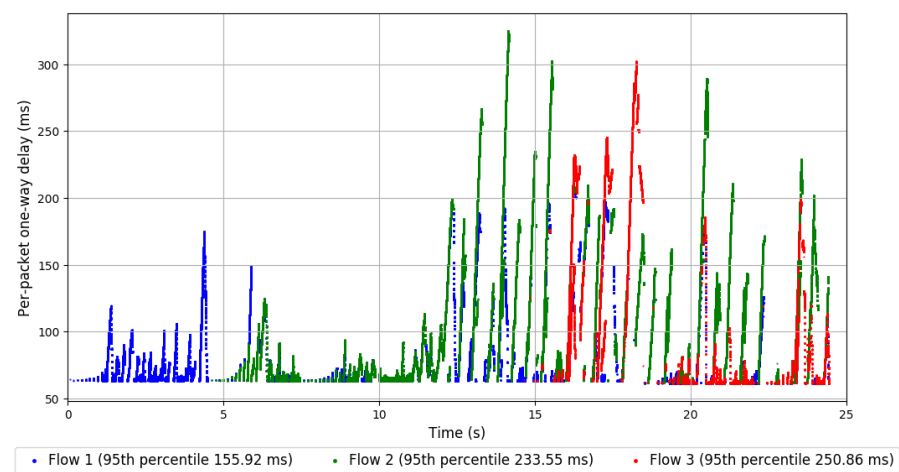
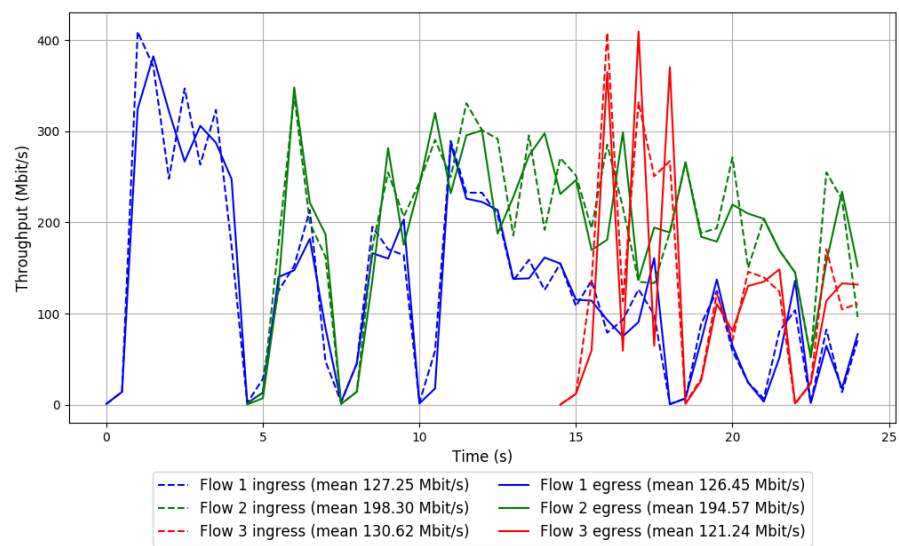
-- Flow 3:

Average throughput: 121.24 Mbit/s

95th percentile per-packet one-way delay: 250.862 ms

Loss rate: 7.21%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-17 09:33:15

End at: 2017-11-17 09:33:45

Below is generated by plot.py at 2017-11-17 12:08:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 349.48 Mbit/s

95th percentile per-packet one-way delay: 124.519 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 177.71 Mbit/s

95th percentile per-packet one-way delay: 105.794 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 186.75 Mbit/s

95th percentile per-packet one-way delay: 127.837 ms

Loss rate: 0.23%

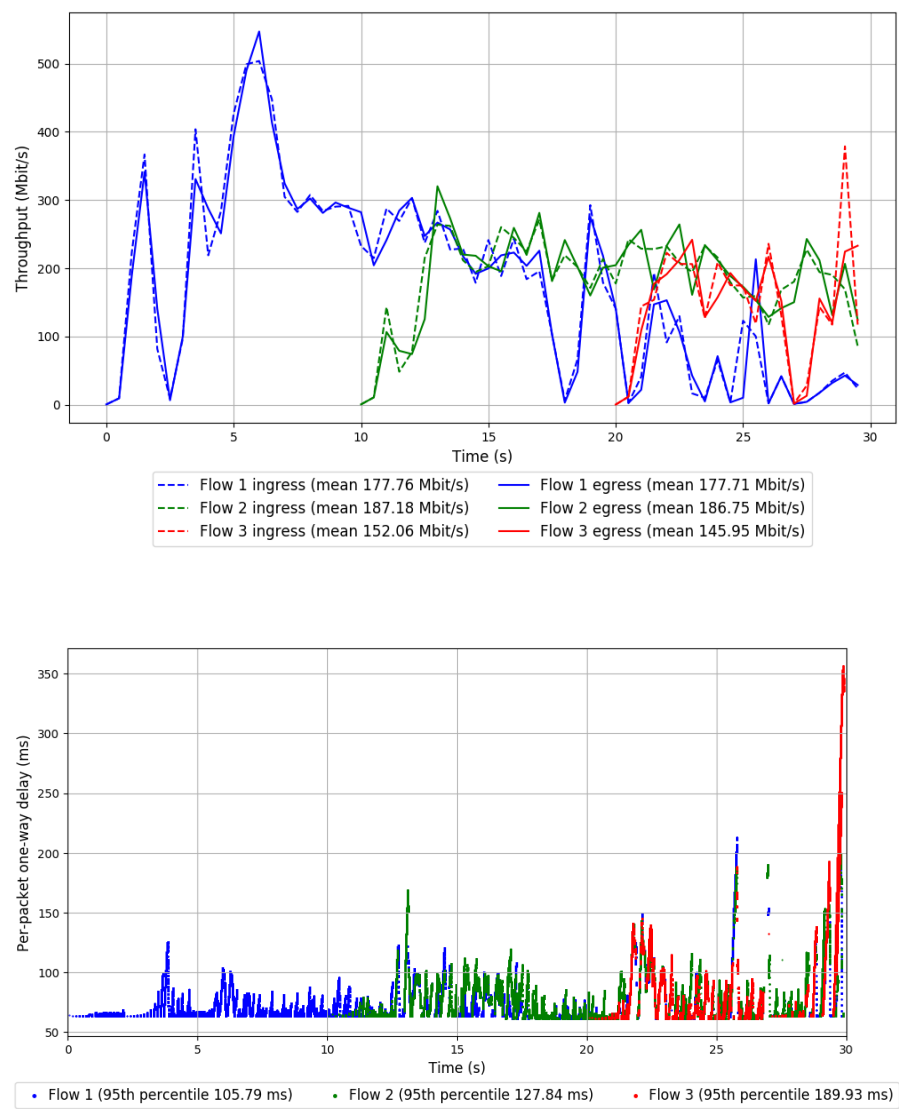
-- Flow 3:

Average throughput: 145.95 Mbit/s

95th percentile per-packet one-way delay: 189.932 ms

Loss rate: 1.38%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-11-17 09:45:30

End at: 2017-11-17 09:46:00

Below is generated by plot.py at 2017-11-17 12:08:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 351.24 Mbit/s

95th percentile per-packet one-way delay: 144.261 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 219.63 Mbit/s

95th percentile per-packet one-way delay: 143.858 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 141.88 Mbit/s

95th percentile per-packet one-way delay: 152.081 ms

Loss rate: 0.22%

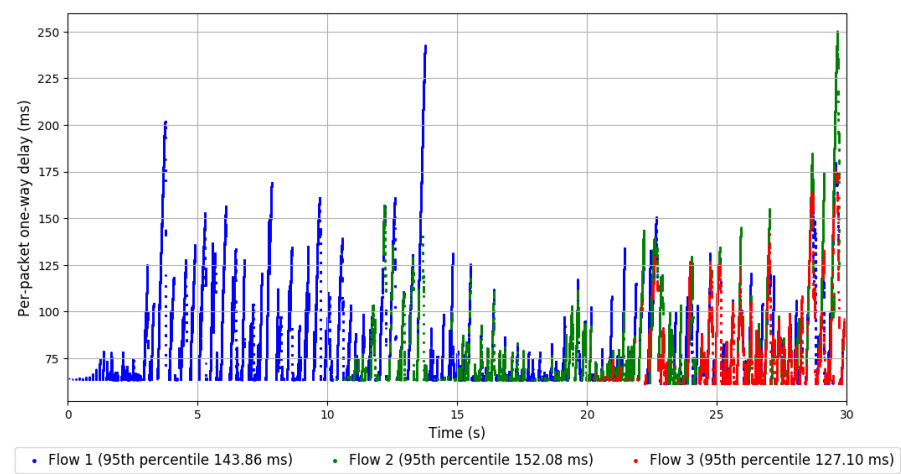
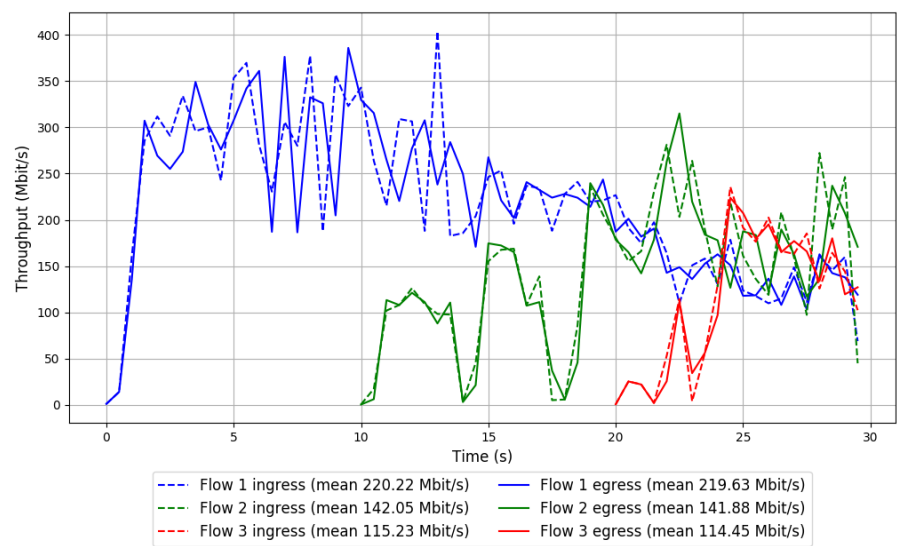
-- Flow 3:

Average throughput: 114.45 Mbit/s

95th percentile per-packet one-way delay: 127.100 ms

Loss rate: 0.66%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-11-17 09:58:12

End at: 2017-11-17 09:58:42

Below is generated by plot.py at 2017-11-17 12:10:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 338.03 Mbit/s

95th percentile per-packet one-way delay: 172.690 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 201.65 Mbit/s

95th percentile per-packet one-way delay: 182.117 ms

Loss rate: 1.75%

-- Flow 2:

Average throughput: 141.00 Mbit/s

95th percentile per-packet one-way delay: 162.699 ms

Loss rate: 0.41%

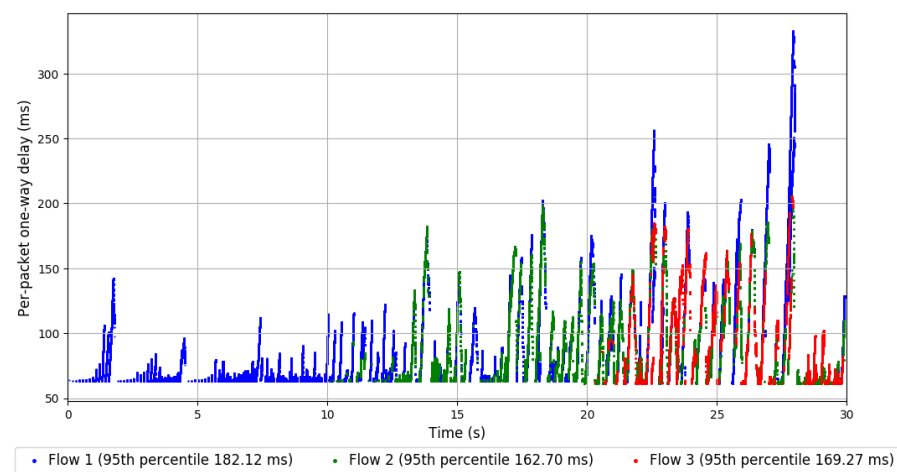
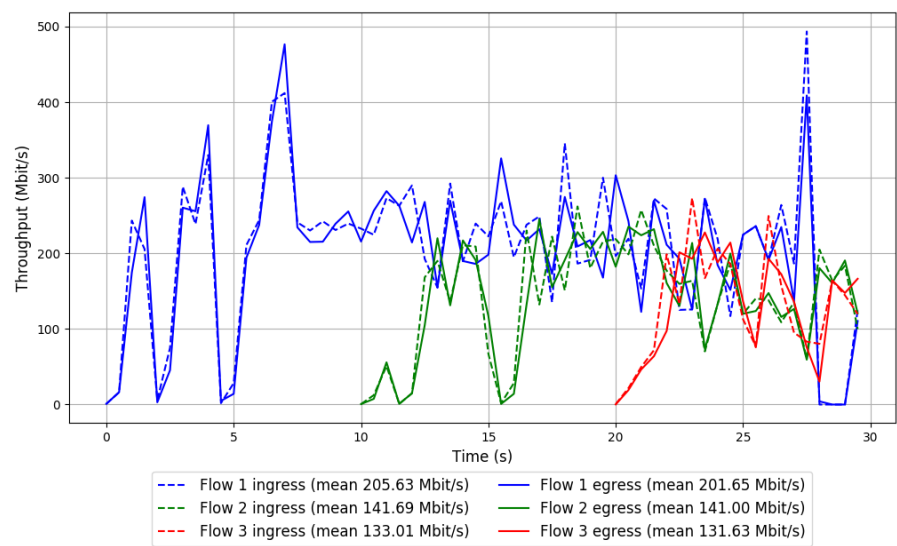
-- Flow 3:

Average throughput: 131.63 Mbit/s

95th percentile per-packet one-way delay: 169.271 ms

Loss rate: 1.62%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-17 10:10:25

End at: 2017-11-17 10:10:55

Below is generated by plot.py at 2017-11-17 12:10:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 288.88 Mbit/s

95th percentile per-packet one-way delay: 175.478 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 159.84 Mbit/s

95th percentile per-packet one-way delay: 151.918 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 151.62 Mbit/s

95th percentile per-packet one-way delay: 210.038 ms

Loss rate: 1.83%

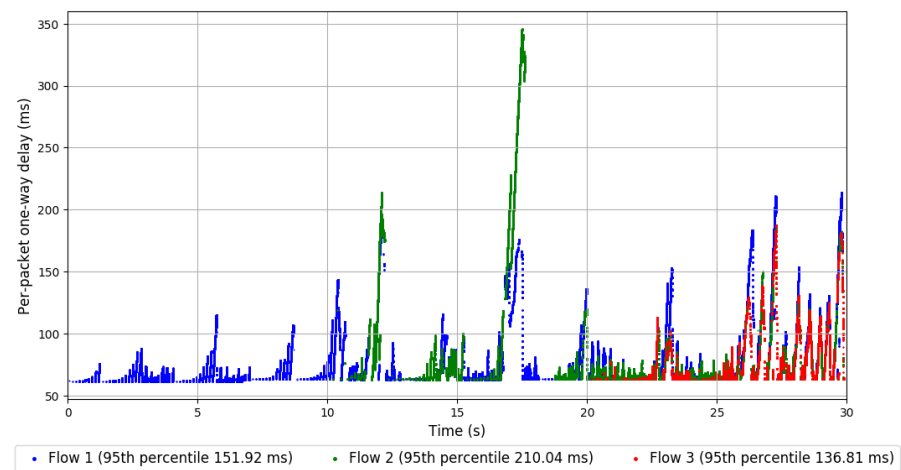
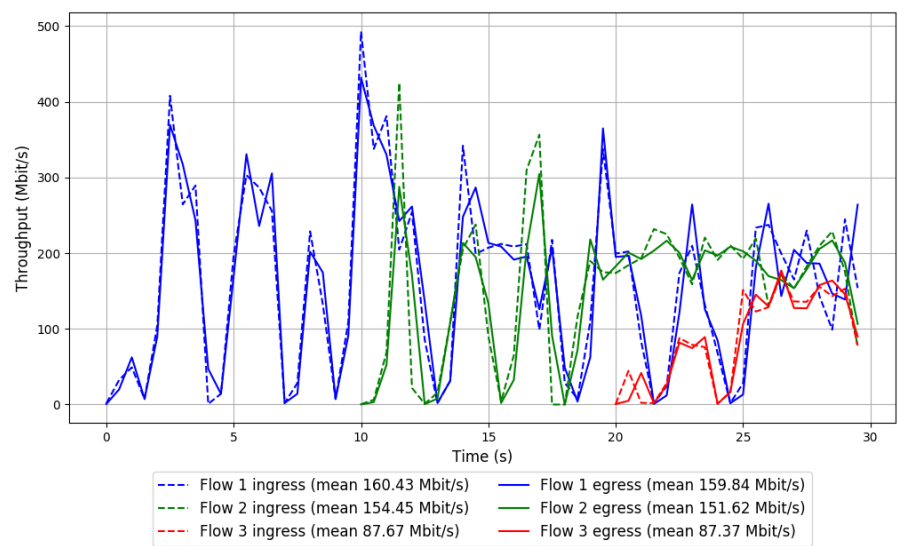
-- Flow 3:

Average throughput: 87.37 Mbit/s

95th percentile per-packet one-way delay: 136.815 ms

Loss rate: 0.34%

Run 10: Report of Verus — Data Link

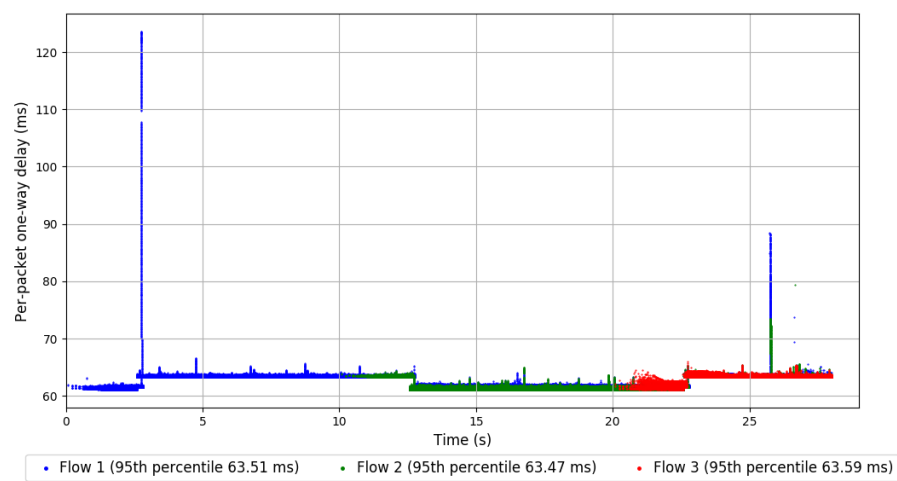
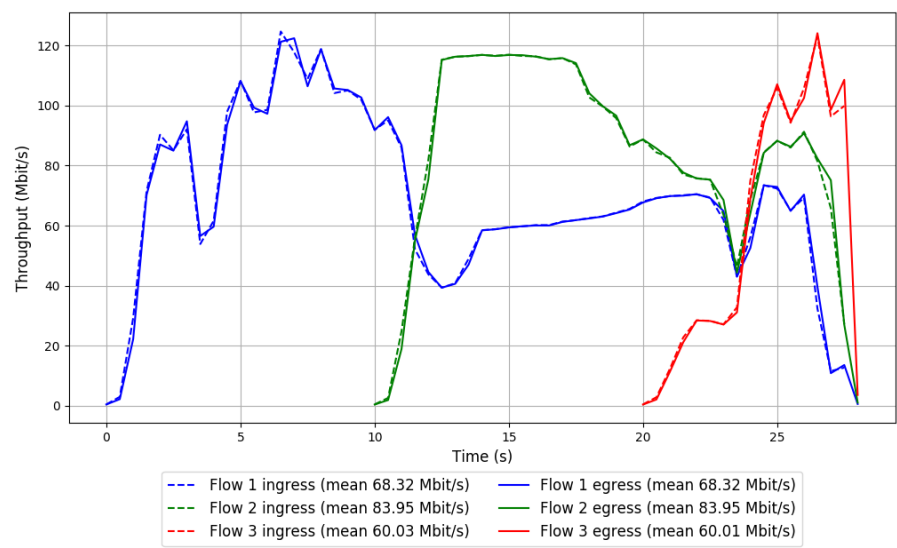


```
Run 1: Statistics of Copa

Start at: 2017-11-17 08:22:37
End at: 2017-11-17 08:23:07

# Below is generated by plot.py at 2017-11-17 12:10:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 139.24 Mbit/s
95th percentile per-packet one-way delay: 63.511 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 68.32 Mbit/s
95th percentile per-packet one-way delay: 63.509 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 83.95 Mbit/s
95th percentile per-packet one-way delay: 63.473 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 60.01 Mbit/s
95th percentile per-packet one-way delay: 63.594 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-11-17 08:35:02

End at: 2017-11-17 08:35:32

Below is generated by plot.py at 2017-11-17 12:10:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 143.24 Mbit/s

95th percentile per-packet one-way delay: 63.519 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 80.50 Mbit/s

95th percentile per-packet one-way delay: 63.486 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 64.20 Mbit/s

95th percentile per-packet one-way delay: 63.561 ms

Loss rate: 0.00%

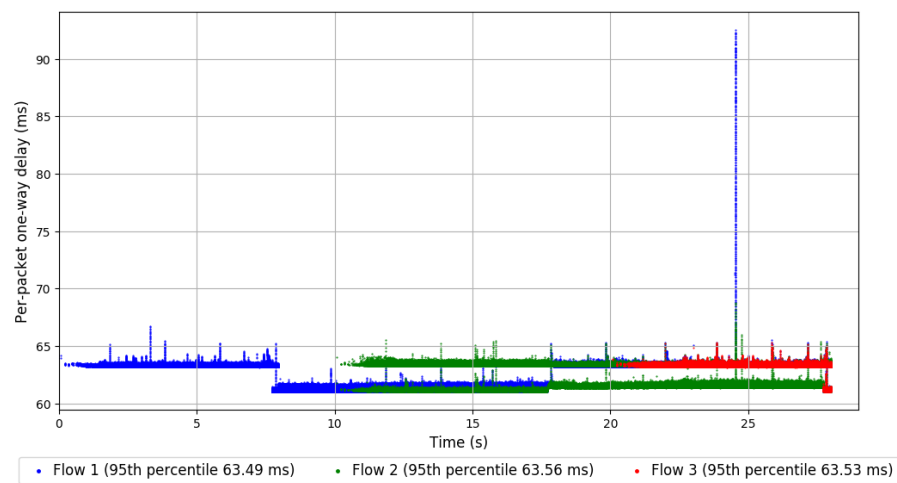
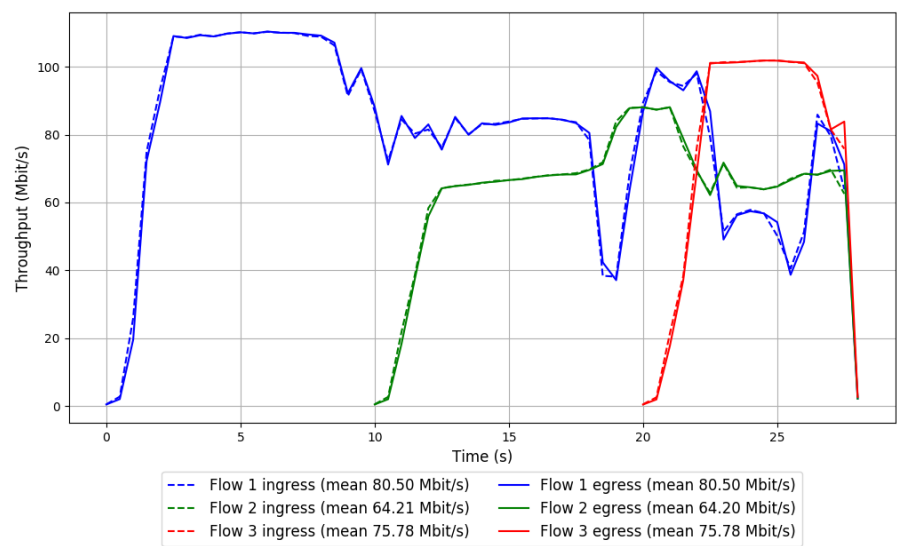
-- Flow 3:

Average throughput: 75.78 Mbit/s

95th percentile per-packet one-way delay: 63.528 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-17 08:47:42

End at: 2017-11-17 08:48:12

Below is generated by plot.py at 2017-11-17 12:11:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 151.85 Mbit/s

95th percentile per-packet one-way delay: 63.505 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 83.57 Mbit/s

95th percentile per-packet one-way delay: 63.489 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 84.36 Mbit/s

95th percentile per-packet one-way delay: 63.469 ms

Loss rate: 0.00%

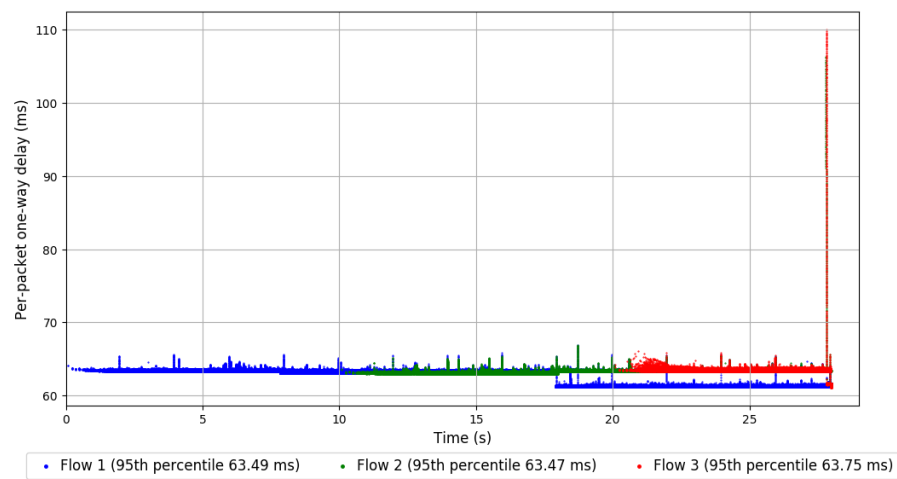
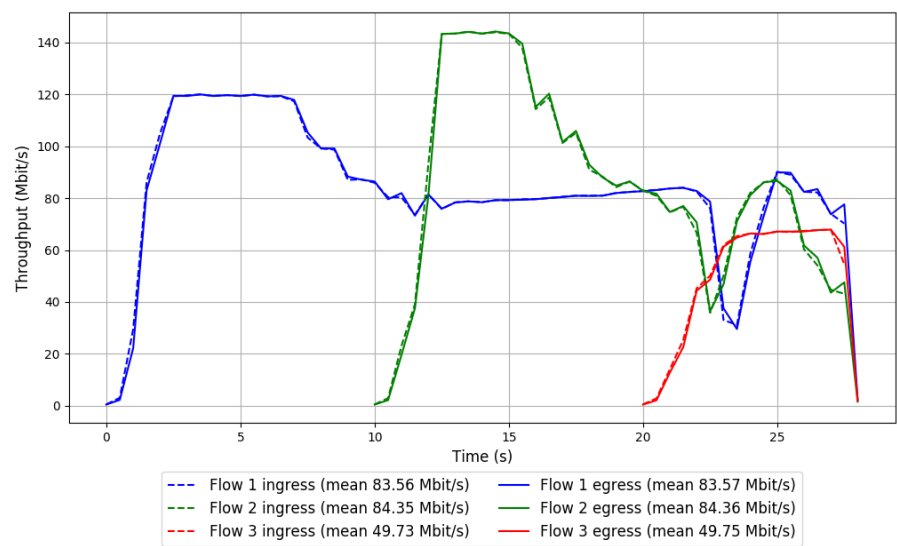
-- Flow 3:

Average throughput: 49.75 Mbit/s

95th percentile per-packet one-way delay: 63.746 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-17 09:00:02

End at: 2017-11-17 09:00:32

Below is generated by plot.py at 2017-11-17 12:12:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 147.55 Mbit/s

95th percentile per-packet one-way delay: 63.531 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 74.44 Mbit/s

95th percentile per-packet one-way delay: 63.515 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 81.36 Mbit/s

95th percentile per-packet one-way delay: 63.538 ms

Loss rate: 0.28%

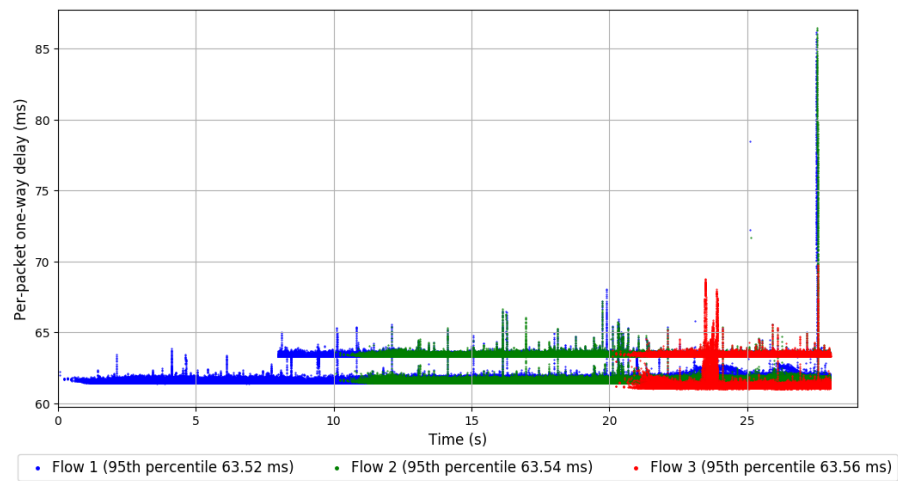
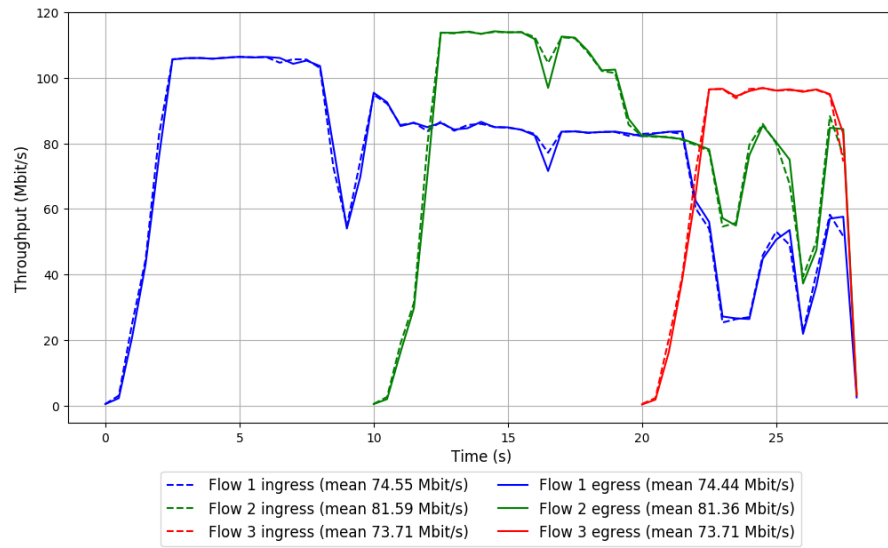
-- Flow 3:

Average throughput: 73.71 Mbit/s

95th percentile per-packet one-way delay: 63.556 ms

Loss rate: 0.01%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-17 09:12:16

End at: 2017-11-17 09:12:46

Below is generated by plot.py at 2017-11-17 12:13:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 151.26 Mbit/s

95th percentile per-packet one-way delay: 63.509 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 78.29 Mbit/s

95th percentile per-packet one-way delay: 63.505 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 77.49 Mbit/s

95th percentile per-packet one-way delay: 63.513 ms

Loss rate: 0.00%

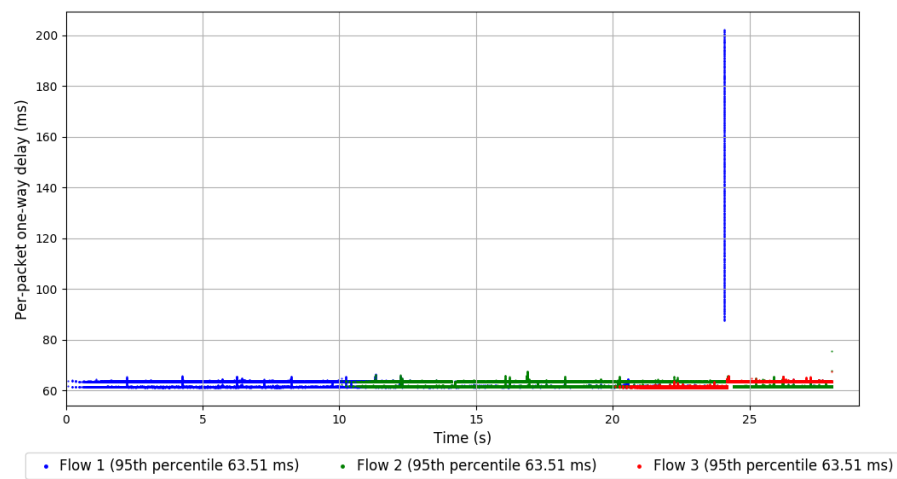
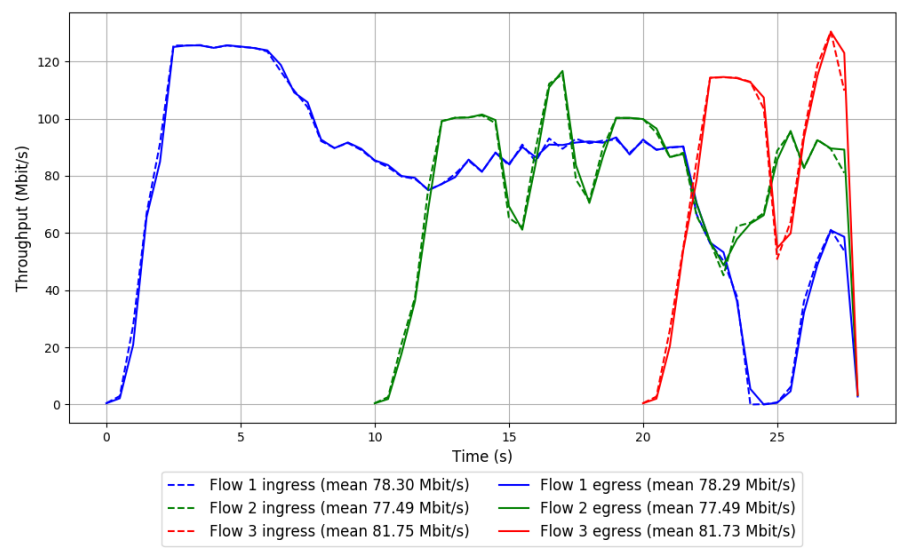
-- Flow 3:

Average throughput: 81.73 Mbit/s

95th percentile per-packet one-way delay: 63.510 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-17 09:24:17

End at: 2017-11-17 09:24:47

Below is generated by plot.py at 2017-11-17 12:13:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.88 Mbit/s

95th percentile per-packet one-way delay: 63.682 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 72.25 Mbit/s

95th percentile per-packet one-way delay: 63.705 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 72.59 Mbit/s

95th percentile per-packet one-way delay: 63.573 ms

Loss rate: 0.00%

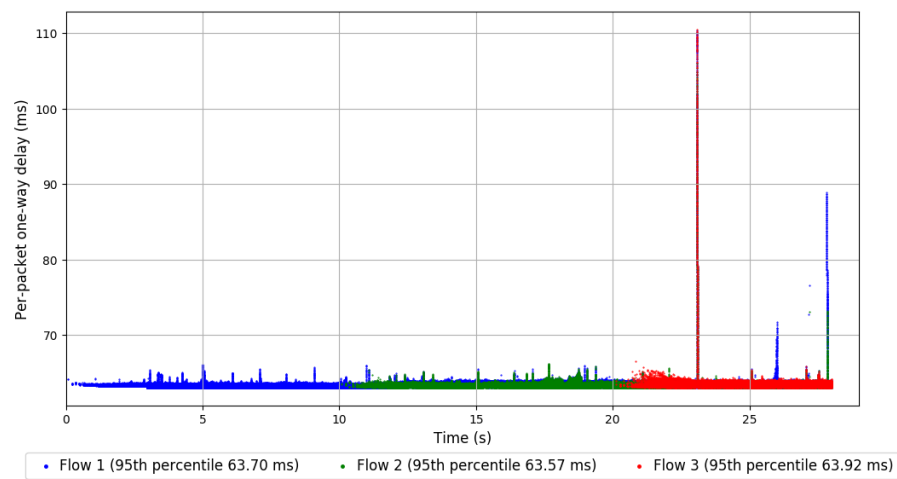
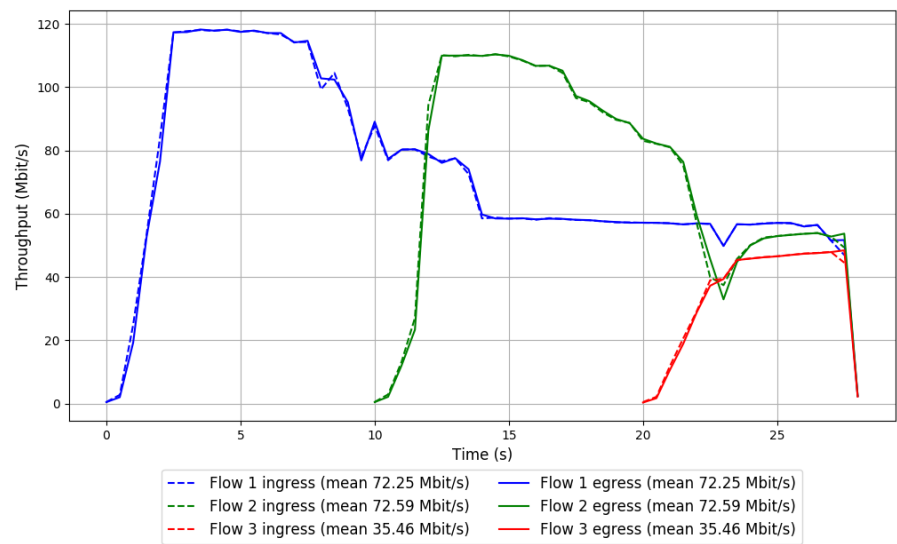
-- Flow 3:

Average throughput: 35.46 Mbit/s

95th percentile per-packet one-way delay: 63.925 ms

Loss rate: 0.01%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-11-17 09:36:29

End at: 2017-11-17 09:36:59

Below is generated by plot.py at 2017-11-17 12:13:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 141.67 Mbit/s

95th percentile per-packet one-way delay: 63.540 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 75.78 Mbit/s

95th percentile per-packet one-way delay: 63.506 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 71.78 Mbit/s

95th percentile per-packet one-way delay: 63.514 ms

Loss rate: 0.00%

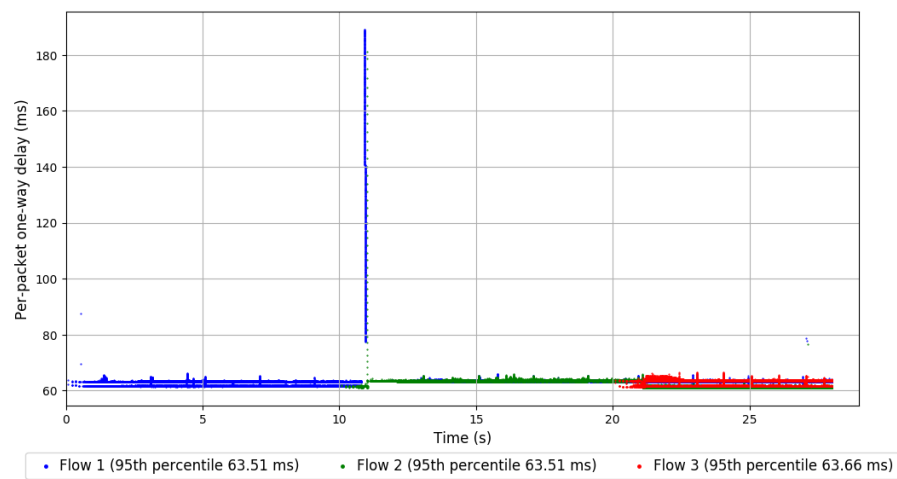
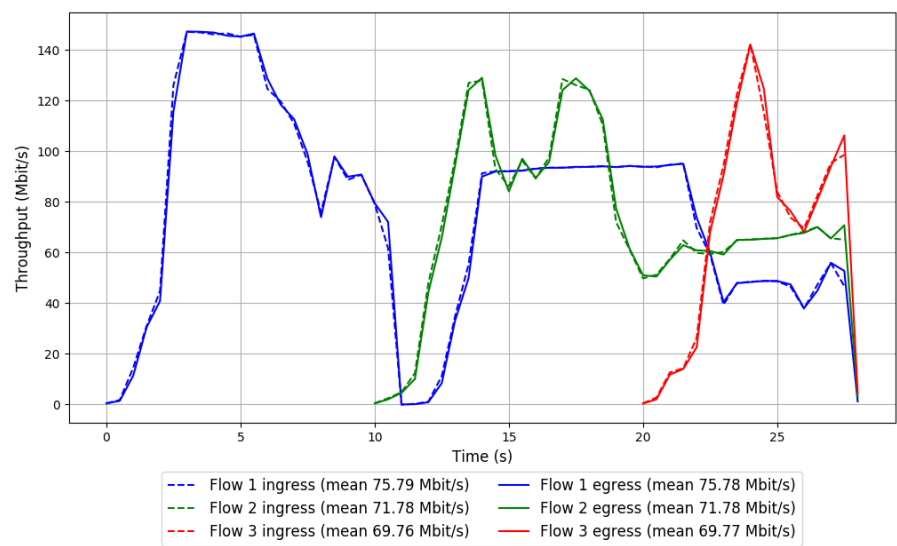
-- Flow 3:

Average throughput: 69.77 Mbit/s

95th percentile per-packet one-way delay: 63.664 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-11-17 09:48:43

End at: 2017-11-17 09:49:13

Below is generated by plot.py at 2017-11-17 12:14:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 161.47 Mbit/s

95th percentile per-packet one-way delay: 63.529 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 102.94 Mbit/s

95th percentile per-packet one-way delay: 63.522 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.62 Mbit/s

95th percentile per-packet one-way delay: 63.530 ms

Loss rate: 0.00%

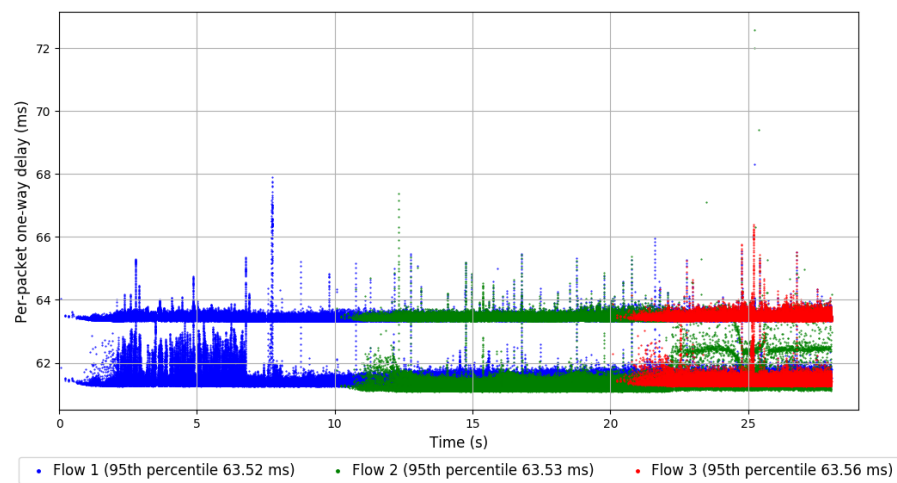
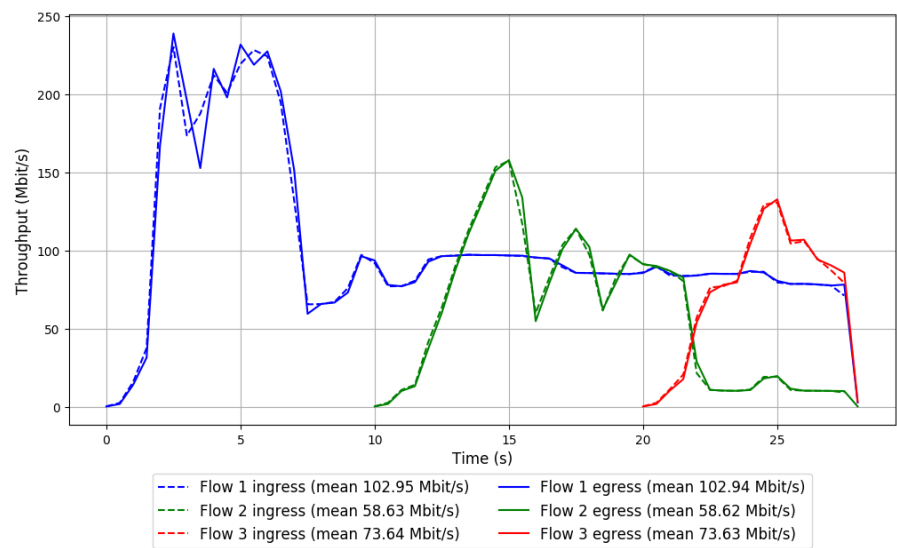
-- Flow 3:

Average throughput: 73.63 Mbit/s

95th percentile per-packet one-way delay: 63.562 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-11-17 10:01:25

End at: 2017-11-17 10:01:55

Below is generated by plot.py at 2017-11-17 12:14:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 139.46 Mbit/s

95th percentile per-packet one-way delay: 63.509 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 68.42 Mbit/s

95th percentile per-packet one-way delay: 63.490 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 70.37 Mbit/s

95th percentile per-packet one-way delay: 63.530 ms

Loss rate: 0.72%

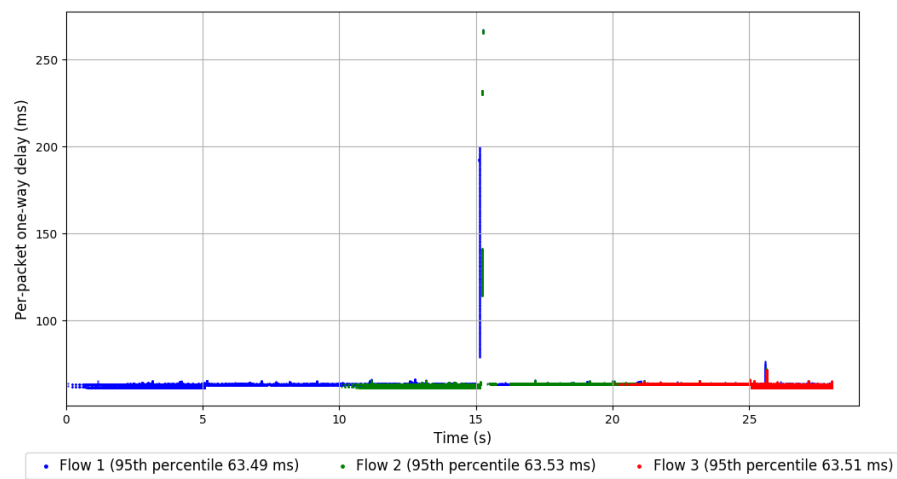
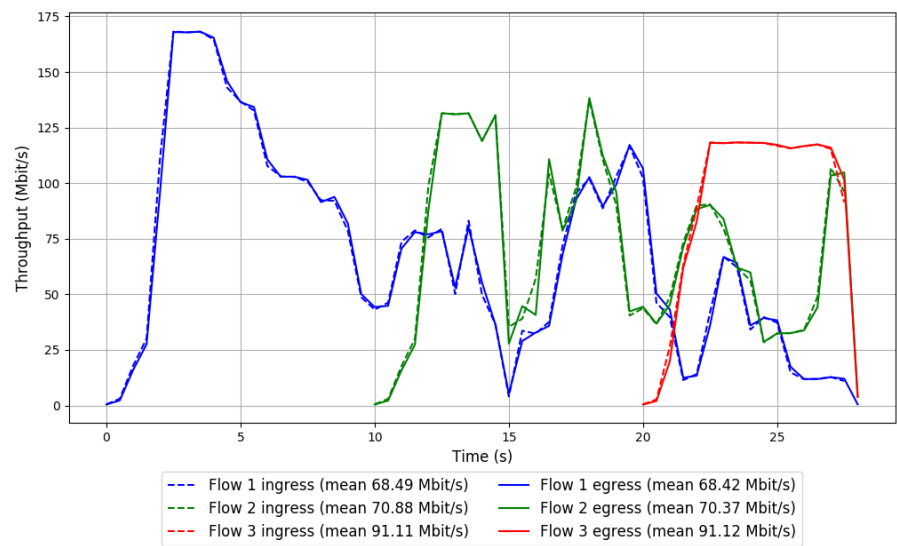
-- Flow 3:

Average throughput: 91.12 Mbit/s

95th percentile per-packet one-way delay: 63.512 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-17 10:13:35

End at: 2017-11-17 10:14:05

Below is generated by plot.py at 2017-11-17 12:14:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.35 Mbit/s

95th percentile per-packet one-way delay: 63.690 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 66.96 Mbit/s

95th percentile per-packet one-way delay: 63.753 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 78.11 Mbit/s

95th percentile per-packet one-way delay: 63.662 ms

Loss rate: 0.00%

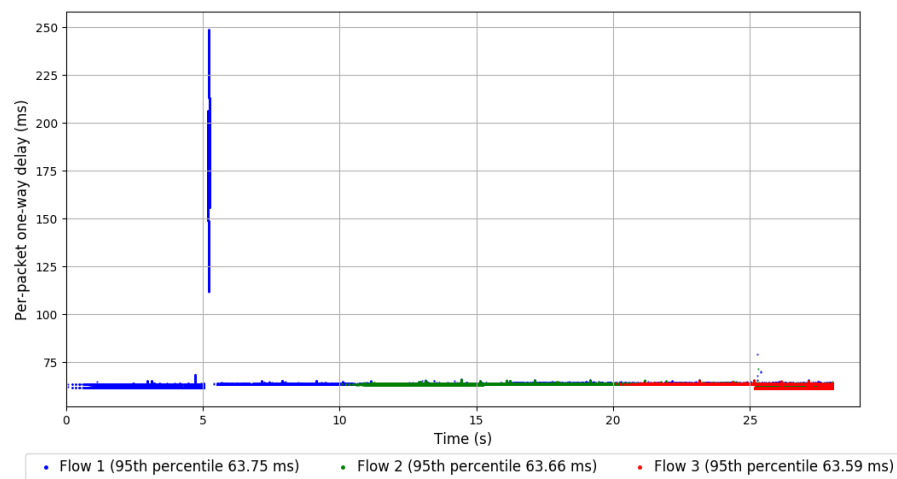
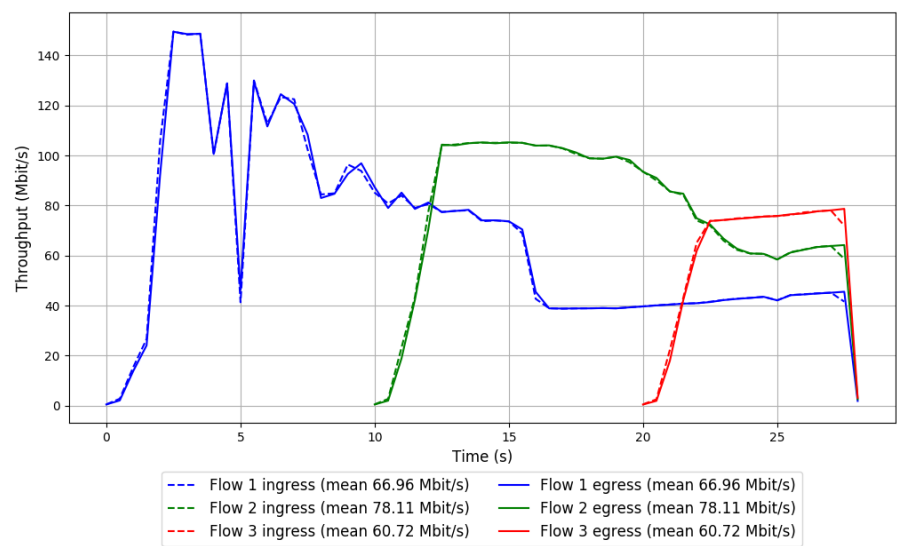
-- Flow 3:

Average throughput: 60.72 Mbit/s

95th percentile per-packet one-way delay: 63.589 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

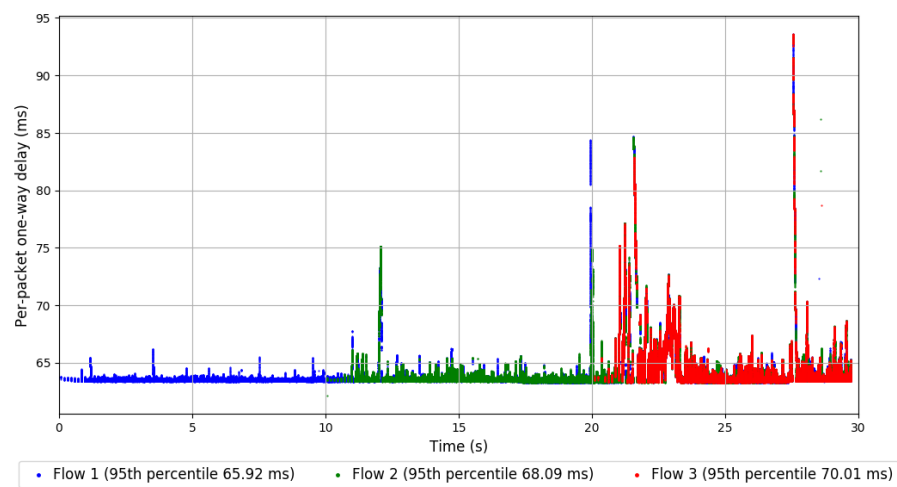
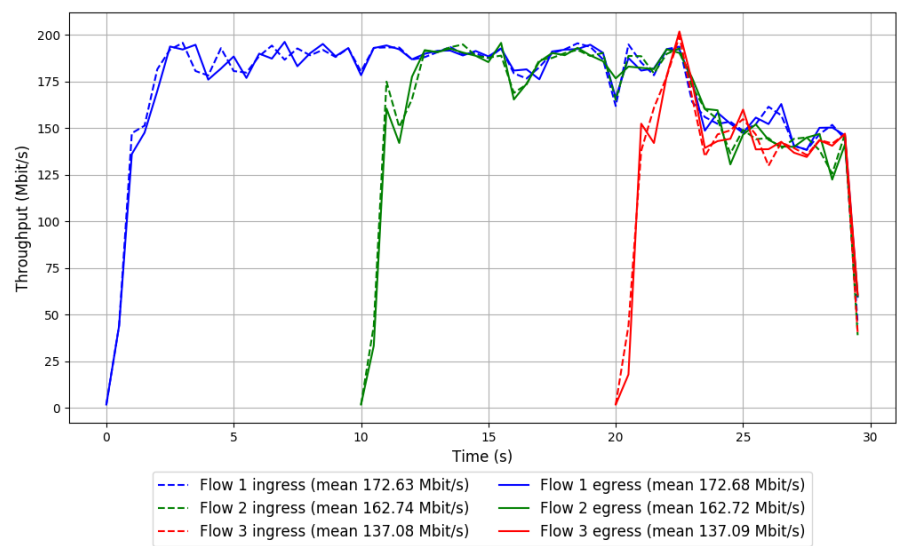


```
Run 1: Statistics of Indigo

Start at: 2017-11-17 08:15:44
End at: 2017-11-17 08:16:14

# Below is generated by plot.py at 2017-11-17 12:16:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 324.97 Mbit/s
95th percentile per-packet one-way delay: 67.547 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 172.68 Mbit/s
95th percentile per-packet one-way delay: 65.920 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 162.72 Mbit/s
95th percentile per-packet one-way delay: 68.087 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 137.09 Mbit/s
95th percentile per-packet one-way delay: 70.010 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo — Data Link

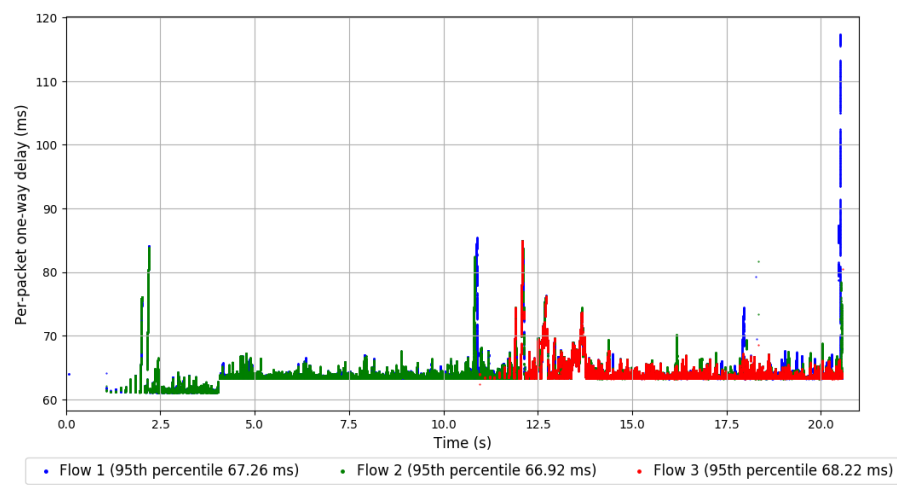
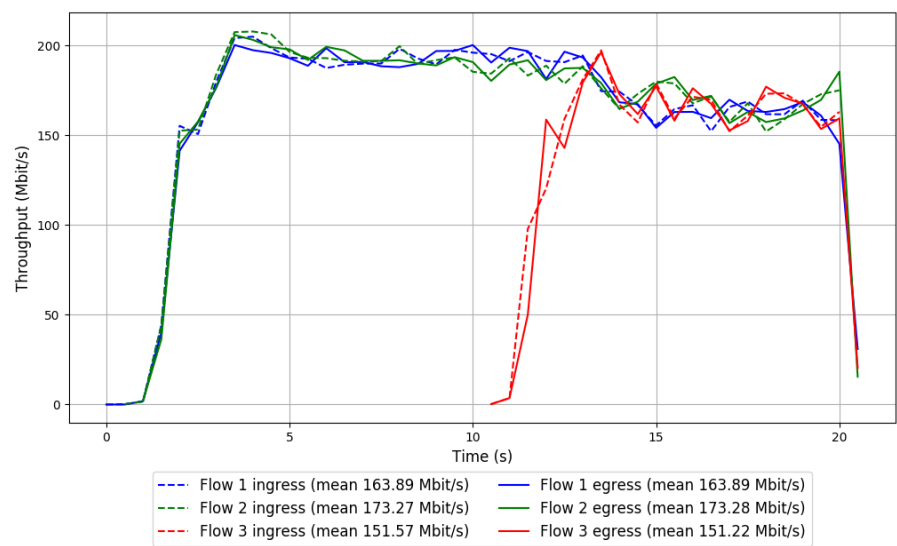


Run 2: Statistics of Indigo

Start at: 2017-11-17 08:28:08

End at: 2017-11-17 08:28:38

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-17 08:40:37

End at: 2017-11-17 08:41:07

Below is generated by plot.py at 2017-11-17 12:18:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 336.63 Mbit/s

95th percentile per-packet one-way delay: 64.272 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 181.03 Mbit/s

95th percentile per-packet one-way delay: 64.000 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 164.06 Mbit/s

95th percentile per-packet one-way delay: 64.392 ms

Loss rate: 0.00%

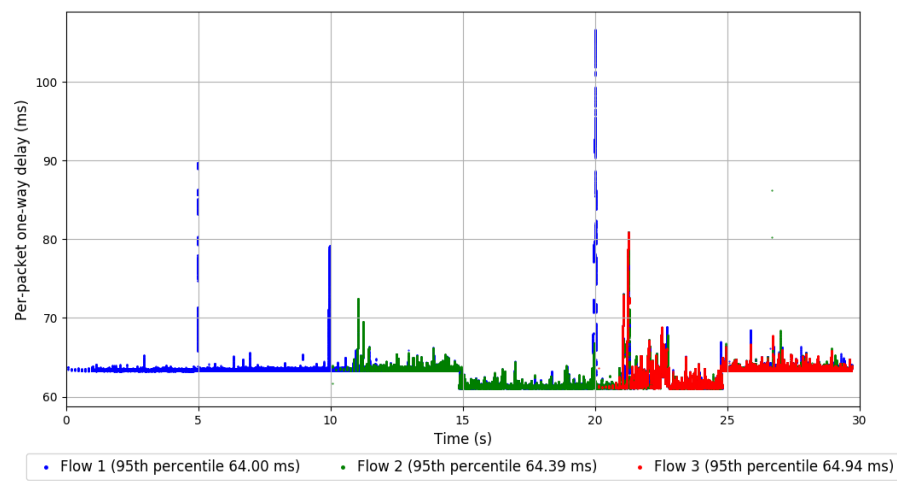
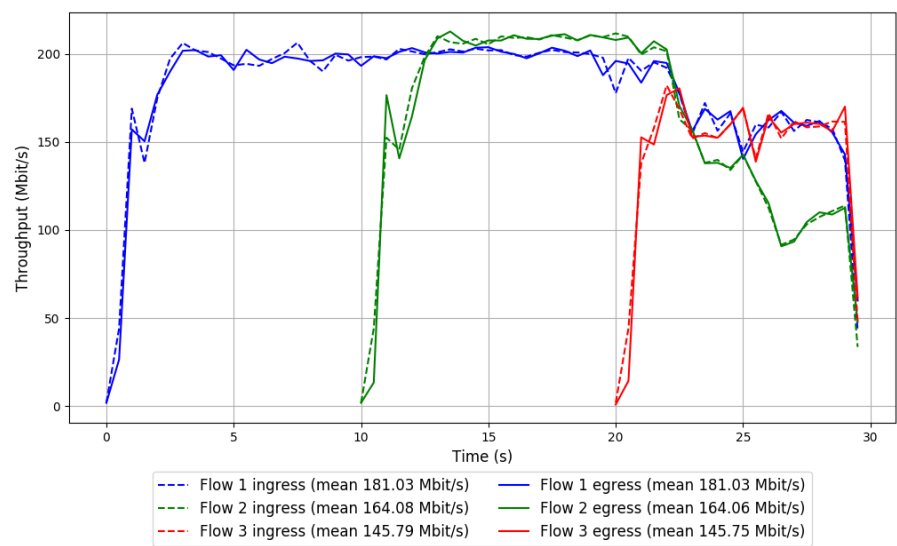
-- Flow 3:

Average throughput: 145.75 Mbit/s

95th percentile per-packet one-way delay: 64.942 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link

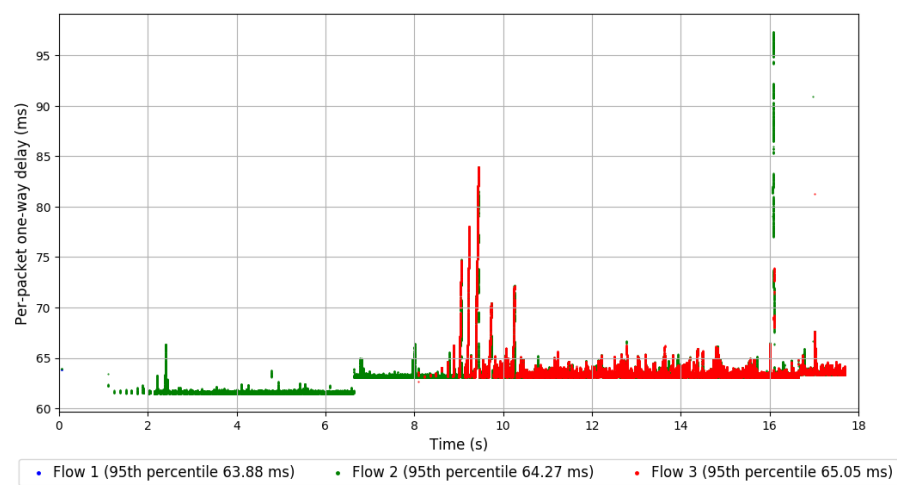
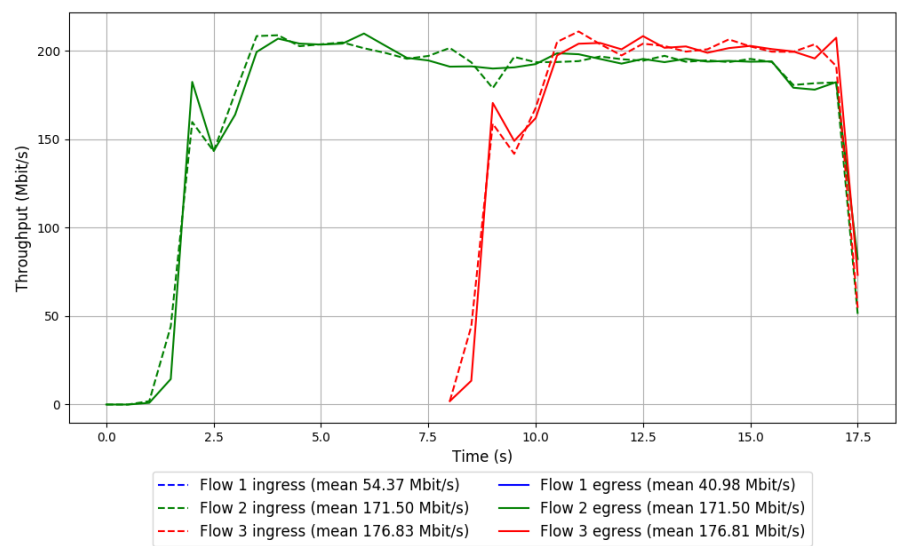


Run 4: Statistics of Indigo

Start at: 2017-11-17 08:53:13

End at: 2017-11-17 08:53:43

Run 4: Report of Indigo — Data Link

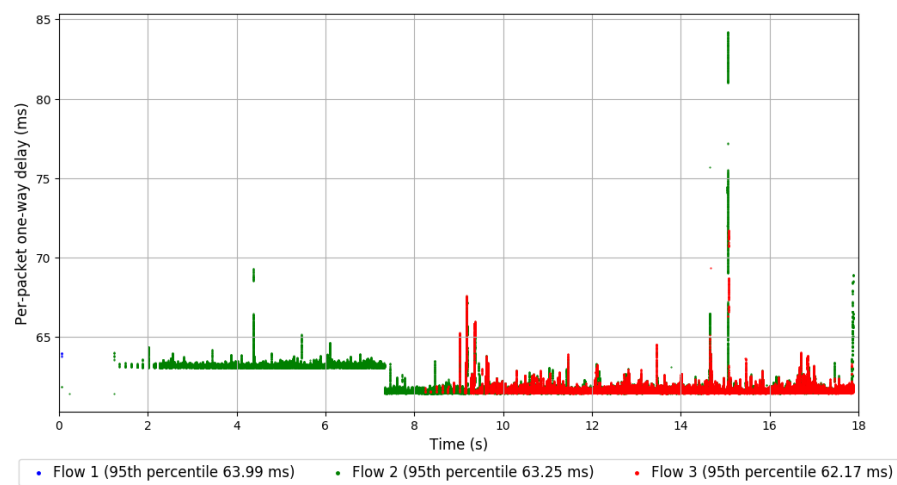
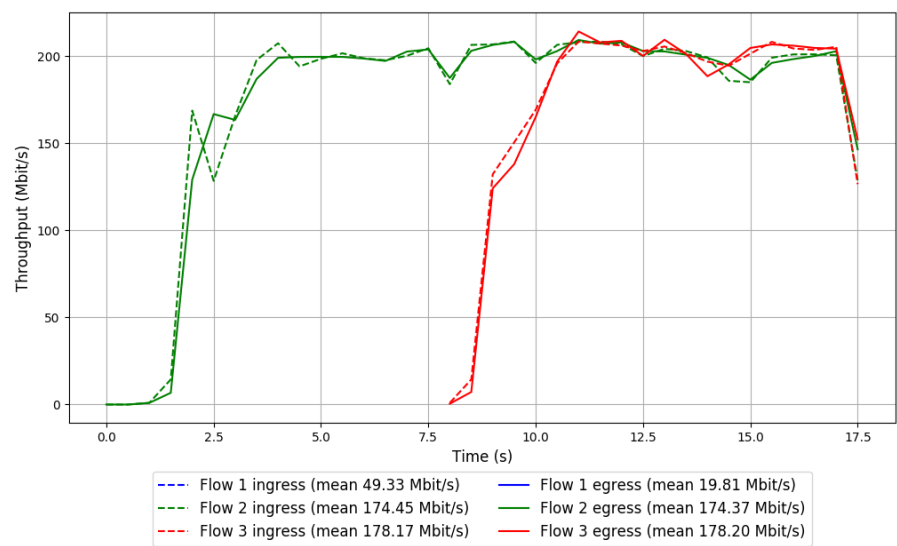


Run 5: Statistics of Indigo

Start at: 2017-11-17 09:05:32

End at: 2017-11-17 09:06:02

Run 5: Report of Indigo — Data Link

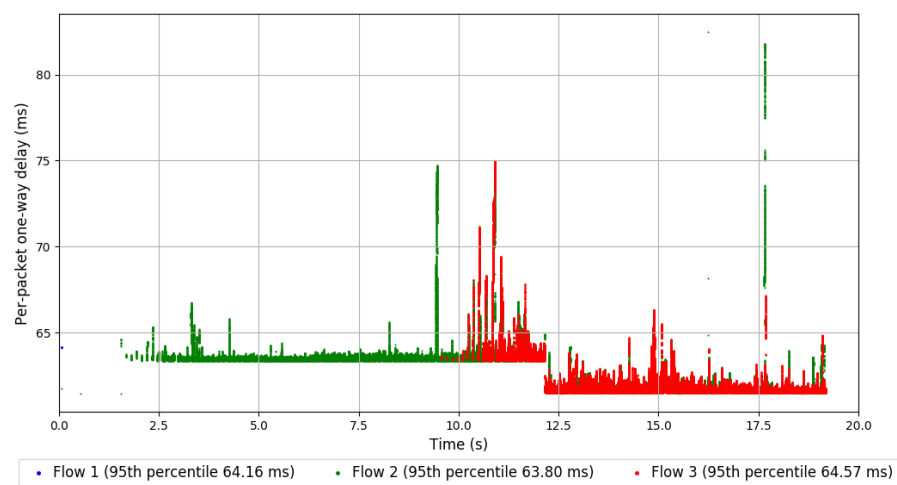
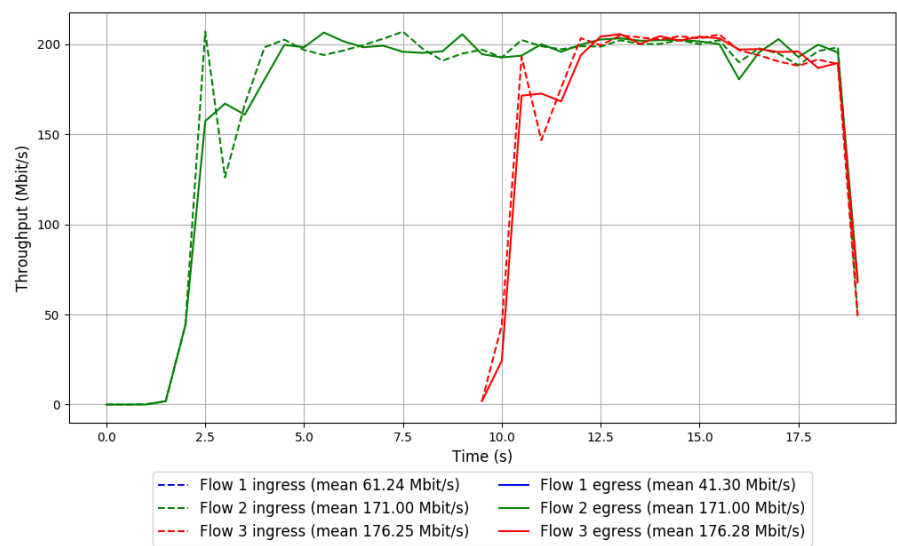


Run 6: Statistics of Indigo

Start at: 2017-11-17 09:17:49

End at: 2017-11-17 09:18:19

Run 6: Report of Indigo — Data Link

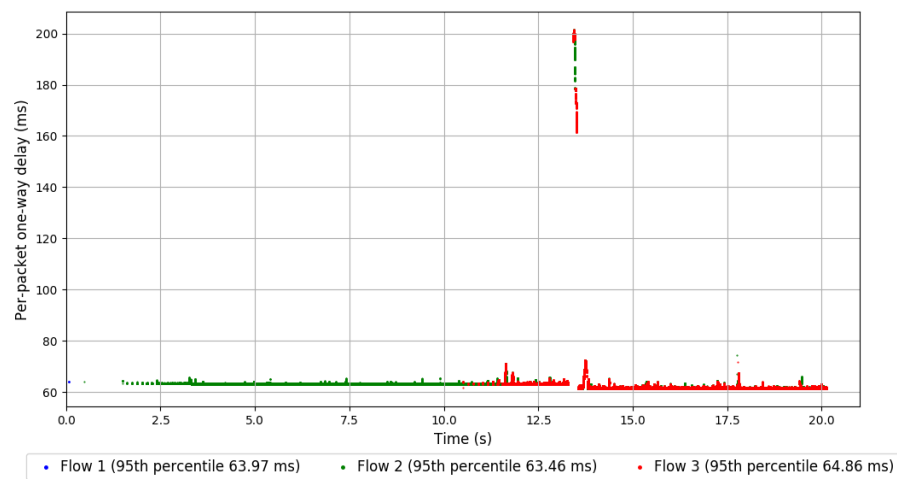
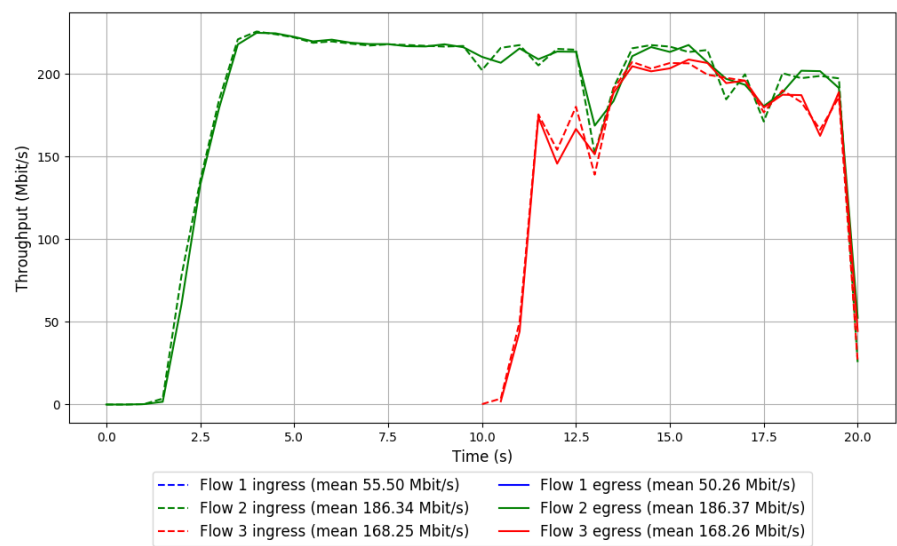


Run 7: Statistics of Indigo

Start at: 2017-11-17 09:29:49

End at: 2017-11-17 09:30:19

Run 7: Report of Indigo — Data Link

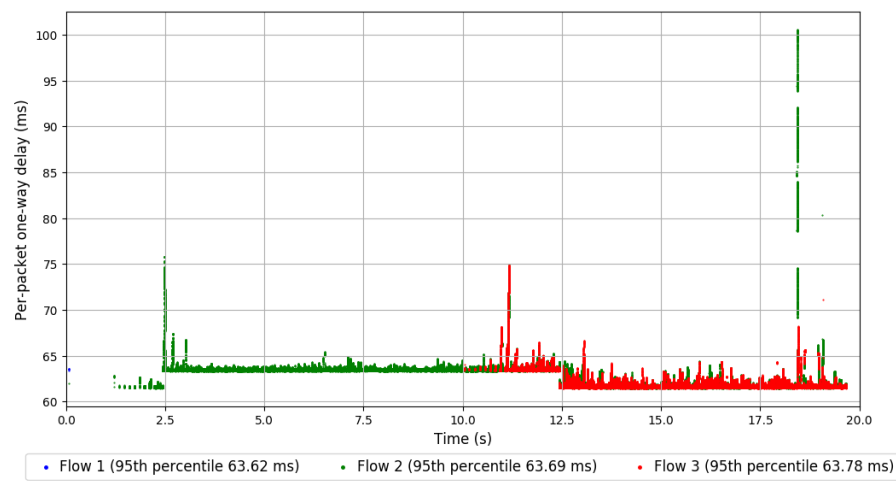
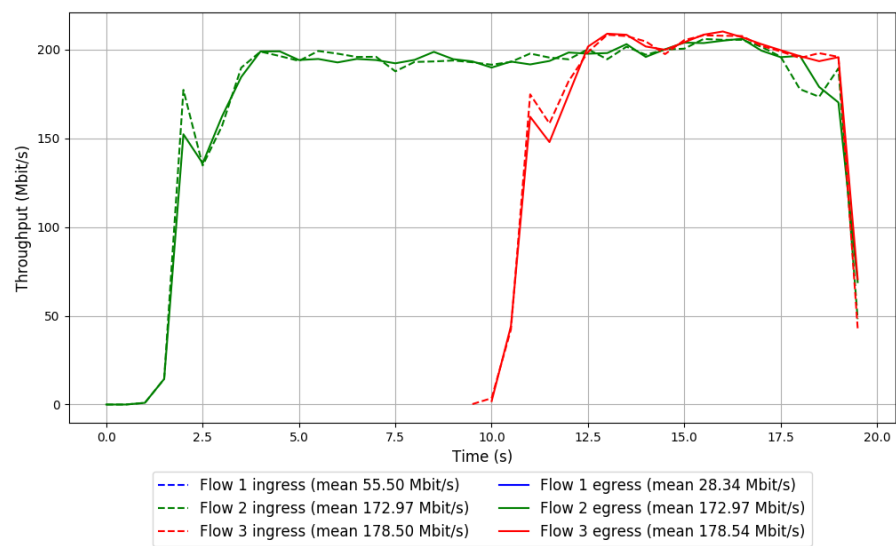


Run 8: Statistics of Indigo

Start at: 2017-11-17 09:41:59

End at: 2017-11-17 09:42:29

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-17 09:54:21

End at: 2017-11-17 09:54:51

Below is generated by plot.py at 2017-11-17 12:21:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 321.33 Mbit/s

95th percentile per-packet one-way delay: 66.093 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 177.63 Mbit/s

95th percentile per-packet one-way delay: 65.470 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 180.87 Mbit/s

95th percentile per-packet one-way delay: 66.157 ms

Loss rate: 0.00%

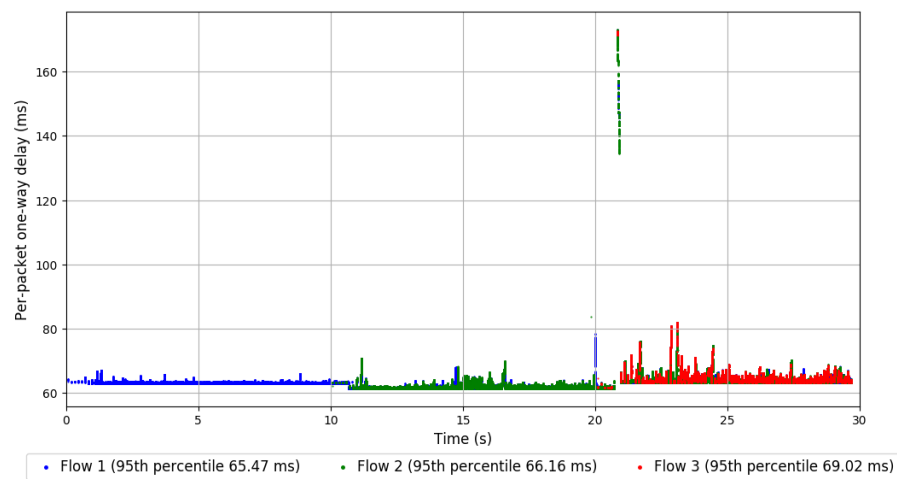
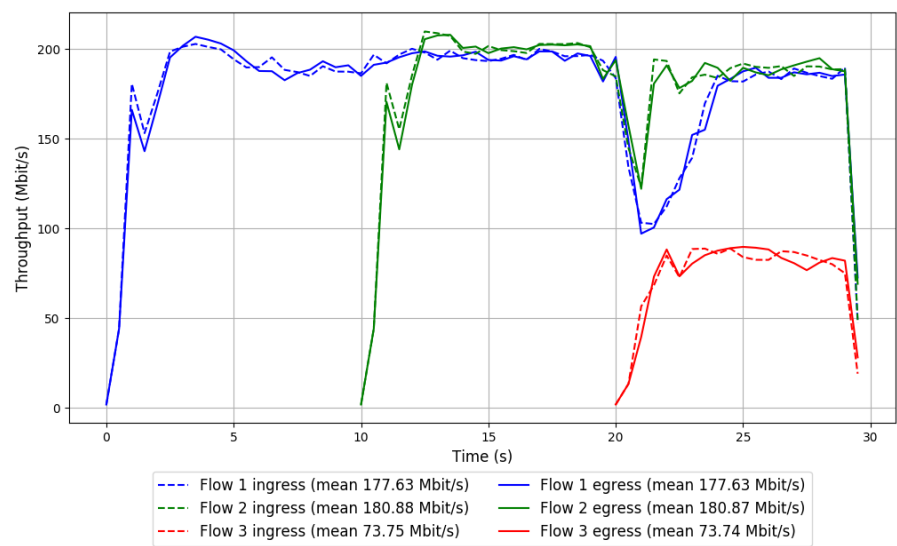
-- Flow 3:

Average throughput: 73.74 Mbit/s

95th percentile per-packet one-way delay: 69.023 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link

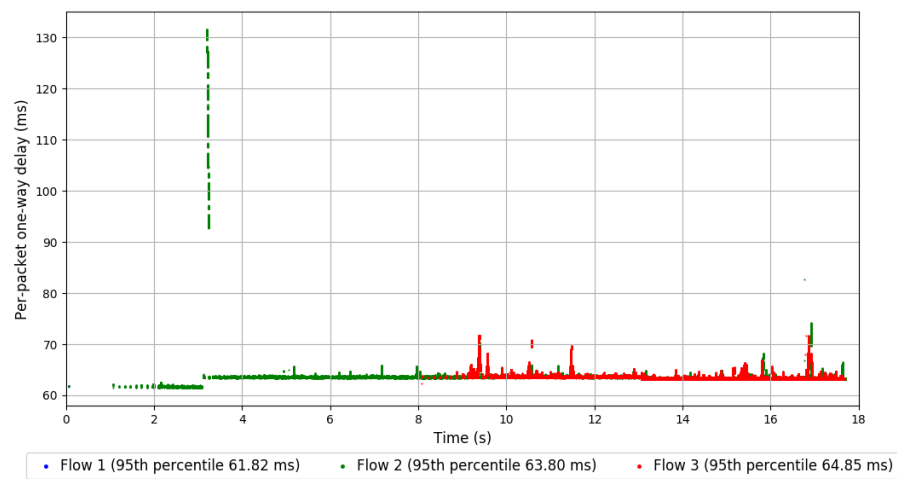
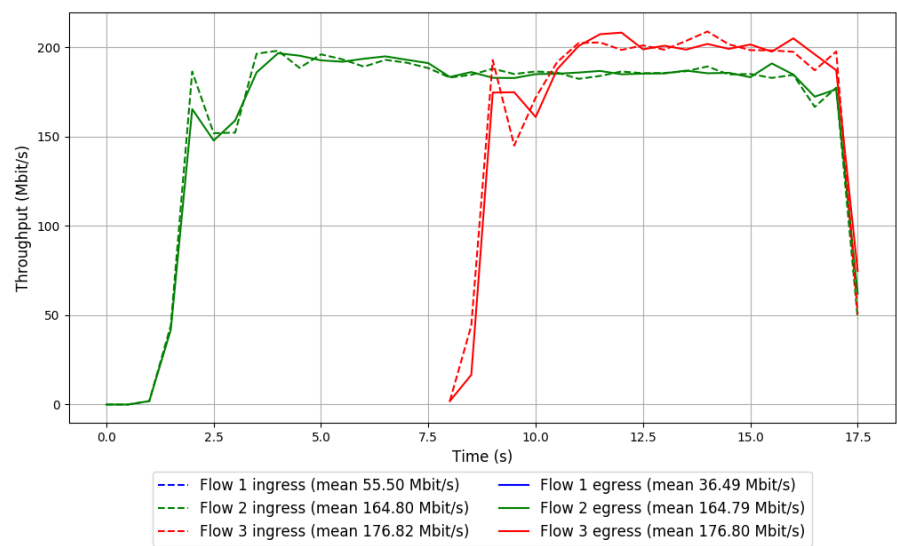


Run 10: Statistics of Indigo

Start at: 2017-11-17 10:06:56

End at: 2017-11-17 10:07:26

Run 10: Report of Indigo — Data Link

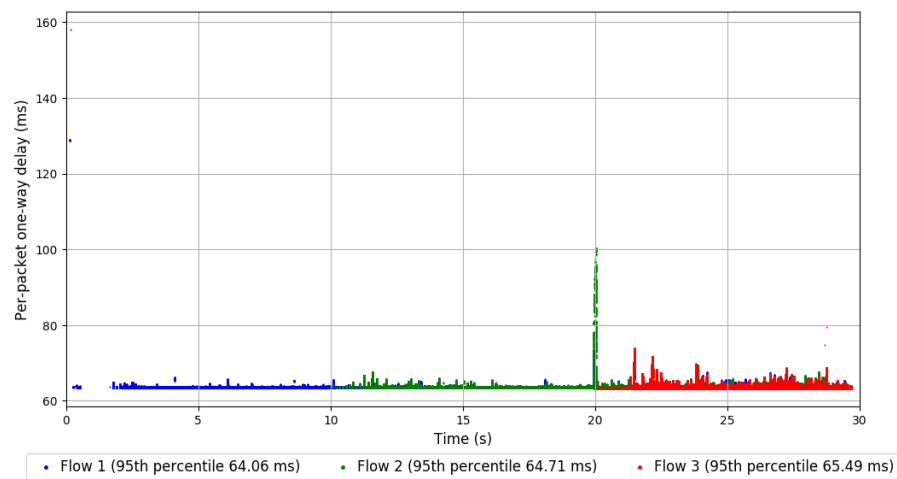
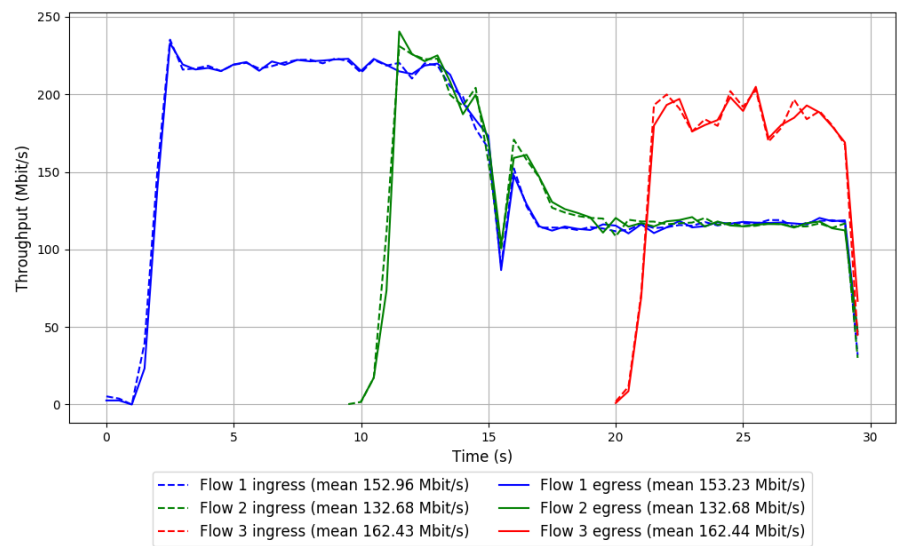


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-17 08:14:42
End at: 2017-11-17 08:15:12

# Below is generated by plot.py at 2017-11-17 12:21:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 293.99 Mbit/s
95th percentile per-packet one-way delay: 64.550 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 153.23 Mbit/s
95th percentile per-packet one-way delay: 64.056 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 132.68 Mbit/s
95th percentile per-packet one-way delay: 64.706 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 162.44 Mbit/s
95th percentile per-packet one-way delay: 65.486 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link

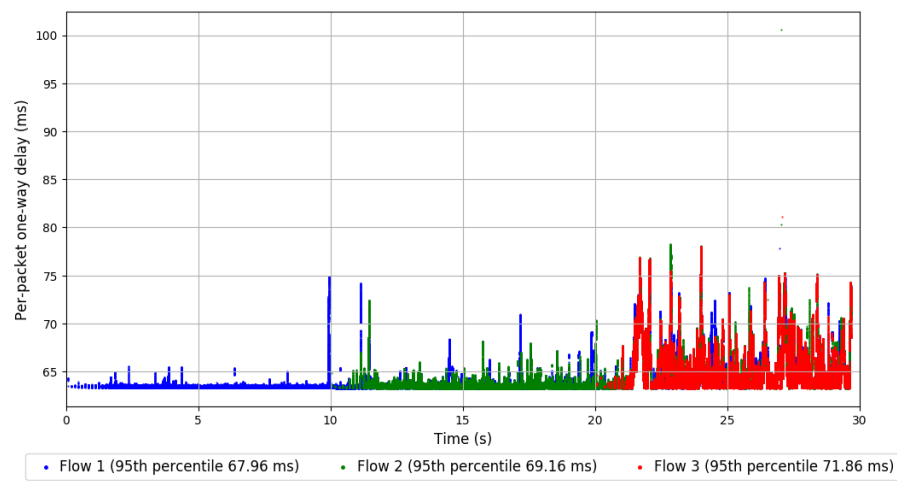
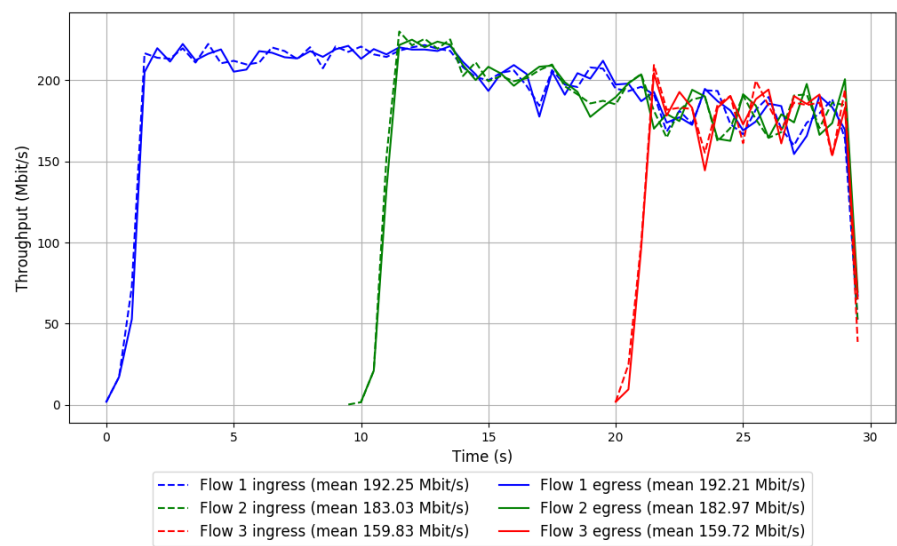


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-17 08:27:01
End at: 2017-11-17 08:27:31

# Below is generated by plot.py at 2017-11-17 12:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 365.24 Mbit/s
95th percentile per-packet one-way delay: 69.190 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 192.21 Mbit/s
95th percentile per-packet one-way delay: 67.964 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 182.97 Mbit/s
95th percentile per-packet one-way delay: 69.162 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 159.72 Mbit/s
95th percentile per-packet one-way delay: 71.859 ms
Loss rate: 0.06%
```

Run 2: Report of Indigo-calib — Data Link

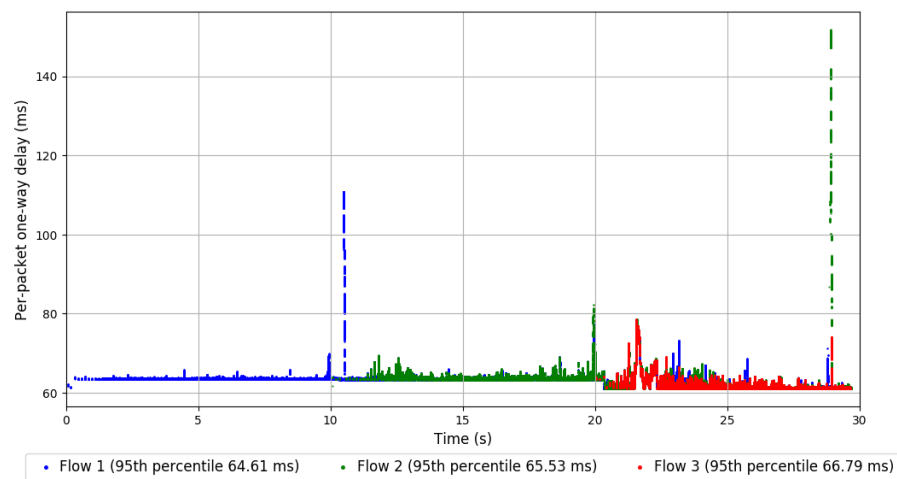
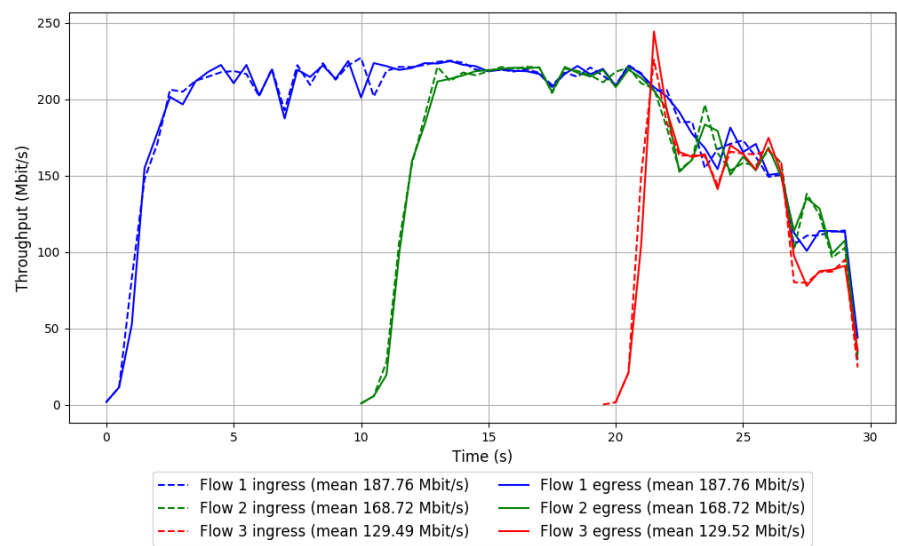


```
Run 3: Statistics of Indigo-calib

Start at: 2017-11-17 08:39:31
End at: 2017-11-17 08:40:01

# Below is generated by plot.py at 2017-11-17 12:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 341.48 Mbit/s
95th percentile per-packet one-way delay: 65.225 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 187.76 Mbit/s
95th percentile per-packet one-way delay: 64.614 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 168.72 Mbit/s
95th percentile per-packet one-way delay: 65.530 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 129.52 Mbit/s
95th percentile per-packet one-way delay: 66.790 ms
Loss rate: 0.00%
```


Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-11-17 08:52:07

End at: 2017-11-17 08:52:37

Below is generated by plot.py at 2017-11-17 12:22:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 345.58 Mbit/s

95th percentile per-packet one-way delay: 65.461 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 186.25 Mbit/s

95th percentile per-packet one-way delay: 64.589 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 177.08 Mbit/s

95th percentile per-packet one-way delay: 66.060 ms

Loss rate: 0.00%

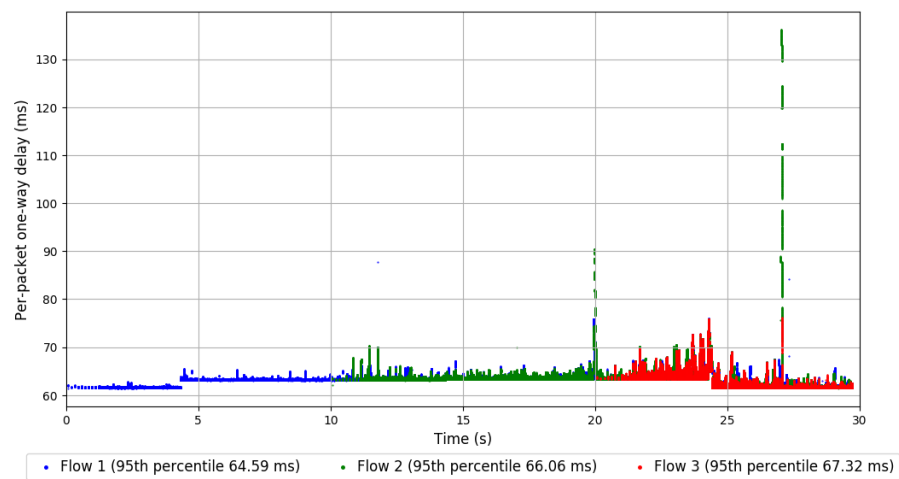
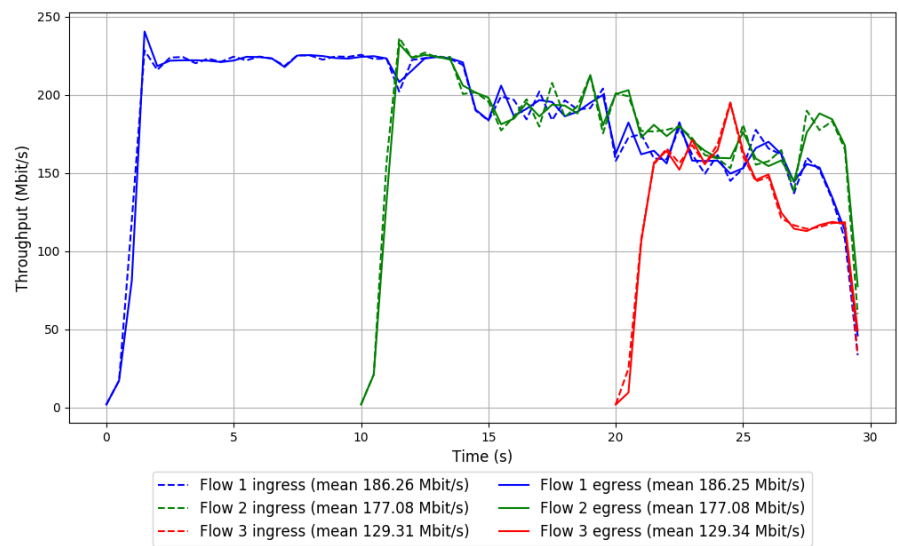
-- Flow 3:

Average throughput: 129.34 Mbit/s

95th percentile per-packet one-way delay: 67.321 ms

Loss rate: 0.00%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-11-17 09:04:26

End at: 2017-11-17 09:04:56

Below is generated by plot.py at 2017-11-17 12:22:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 350.04 Mbit/s

95th percentile per-packet one-way delay: 70.388 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 186.32 Mbit/s

95th percentile per-packet one-way delay: 67.530 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 171.66 Mbit/s

95th percentile per-packet one-way delay: 71.040 ms

Loss rate: 0.00%

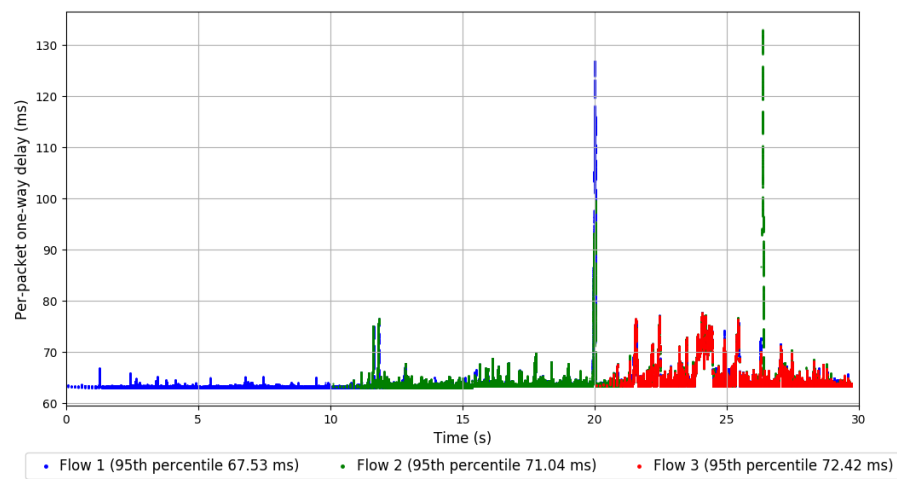
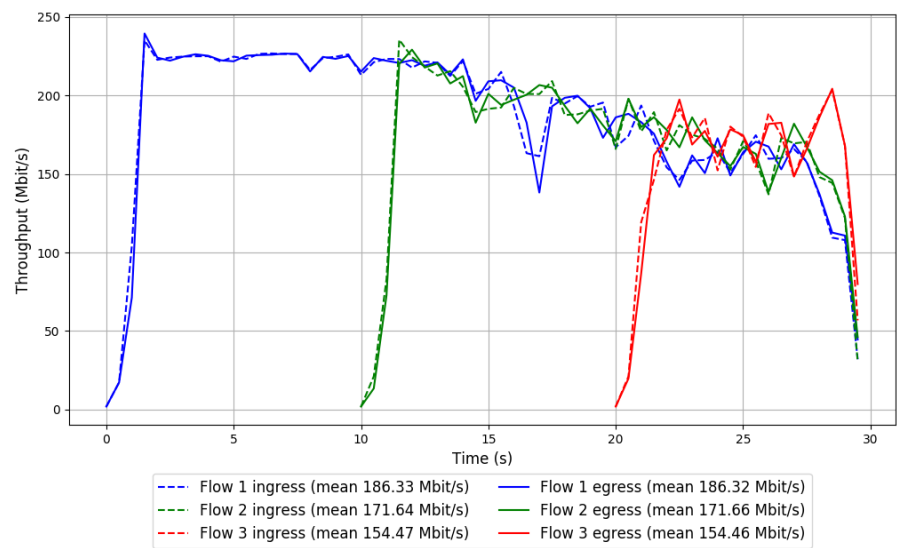
-- Flow 3:

Average throughput: 154.46 Mbit/s

95th percentile per-packet one-way delay: 72.421 ms

Loss rate: 0.00%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-11-17 09:16:41

End at: 2017-11-17 09:17:11

Below is generated by plot.py at 2017-11-17 12:23:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 370.99 Mbit/s

95th percentile per-packet one-way delay: 72.703 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 201.58 Mbit/s

95th percentile per-packet one-way delay: 70.117 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 182.06 Mbit/s

95th percentile per-packet one-way delay: 73.233 ms

Loss rate: 0.01%

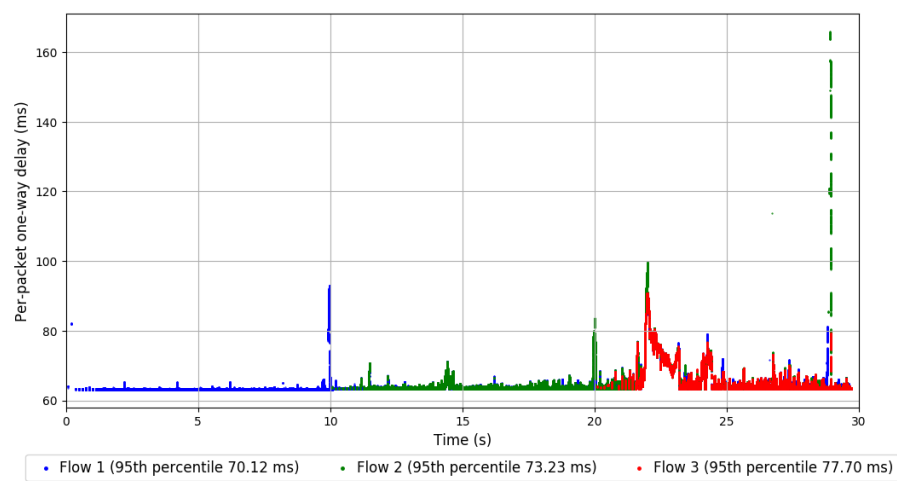
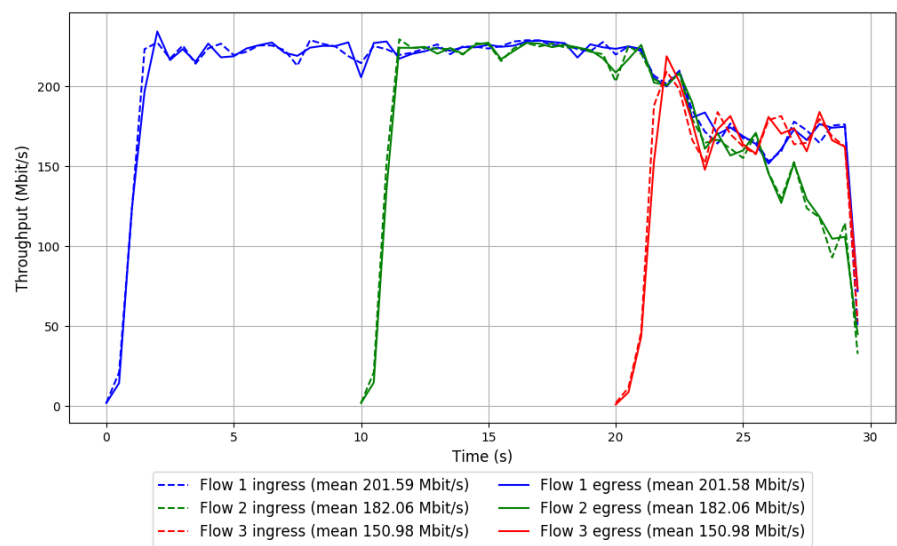
-- Flow 3:

Average throughput: 150.98 Mbit/s

95th percentile per-packet one-way delay: 77.705 ms

Loss rate: 0.00%

Run 6: Report of Indigo-calib — Data Link

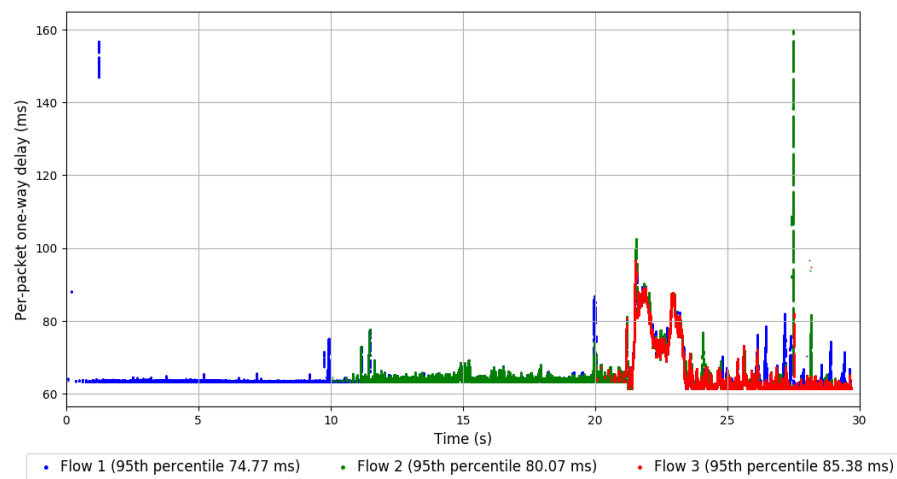
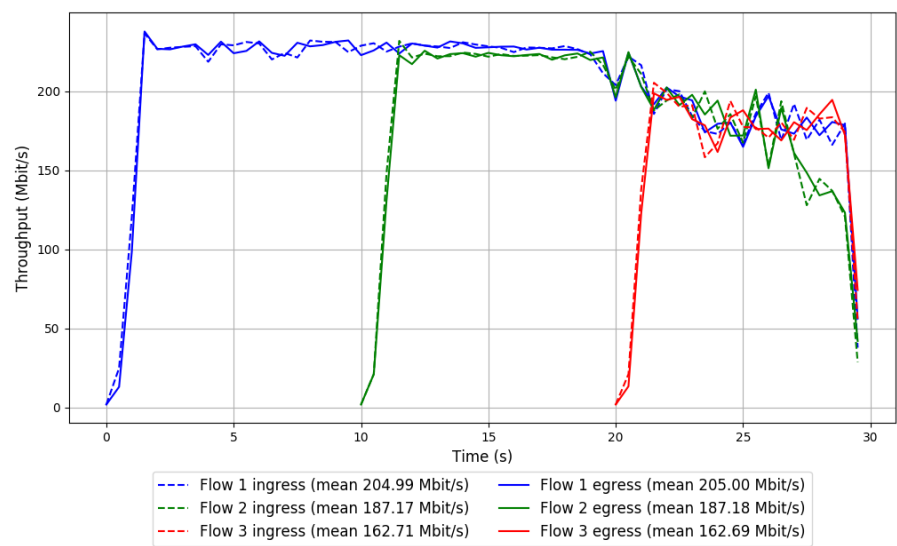


```
Run 7: Statistics of Indigo-calib

Start at: 2017-11-17 09:28:40
End at: 2017-11-17 09:29:10

# Below is generated by plot.py at 2017-11-17 12:24:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 381.70 Mbit/s
95th percentile per-packet one-way delay: 78.853 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 205.00 Mbit/s
95th percentile per-packet one-way delay: 74.771 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 187.18 Mbit/s
95th percentile per-packet one-way delay: 80.066 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 162.69 Mbit/s
95th percentile per-packet one-way delay: 85.381 ms
Loss rate: 0.01%
```


Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-17 09:40:52

End at: 2017-11-17 09:41:22

Below is generated by plot.py at 2017-11-17 12:24:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 361.99 Mbit/s

95th percentile per-packet one-way delay: 71.442 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 187.48 Mbit/s

95th percentile per-packet one-way delay: 68.310 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 187.94 Mbit/s

95th percentile per-packet one-way delay: 73.059 ms

Loss rate: 0.00%

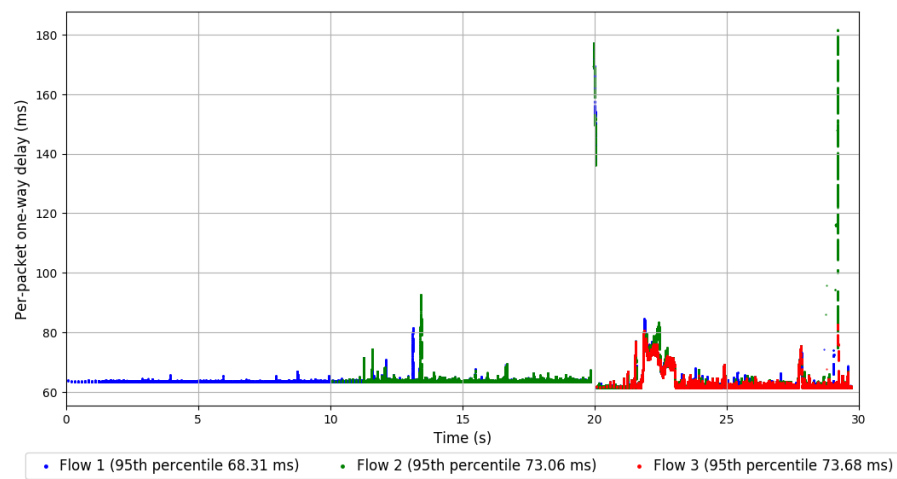
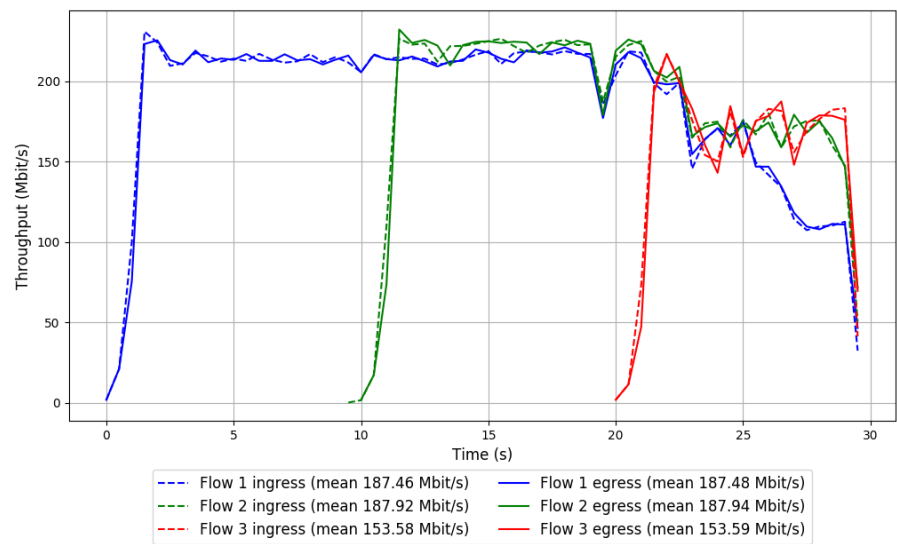
-- Flow 3:

Average throughput: 153.59 Mbit/s

95th percentile per-packet one-way delay: 73.680 ms

Loss rate: 0.00%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-11-17 09:53:15

End at: 2017-11-17 09:53:45

Below is generated by plot.py at 2017-11-17 12:24:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 355.28 Mbit/s

95th percentile per-packet one-way delay: 68.201 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 188.97 Mbit/s

95th percentile per-packet one-way delay: 66.263 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 171.49 Mbit/s

95th percentile per-packet one-way delay: 68.743 ms

Loss rate: 0.00%

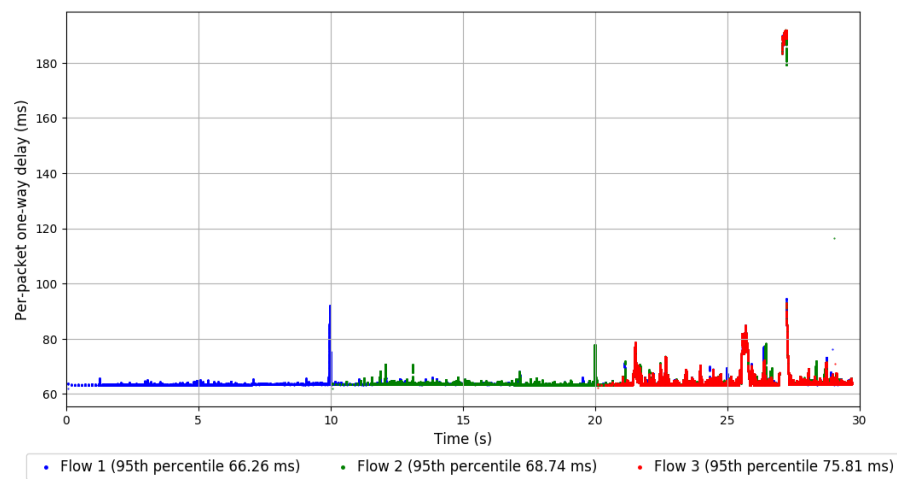
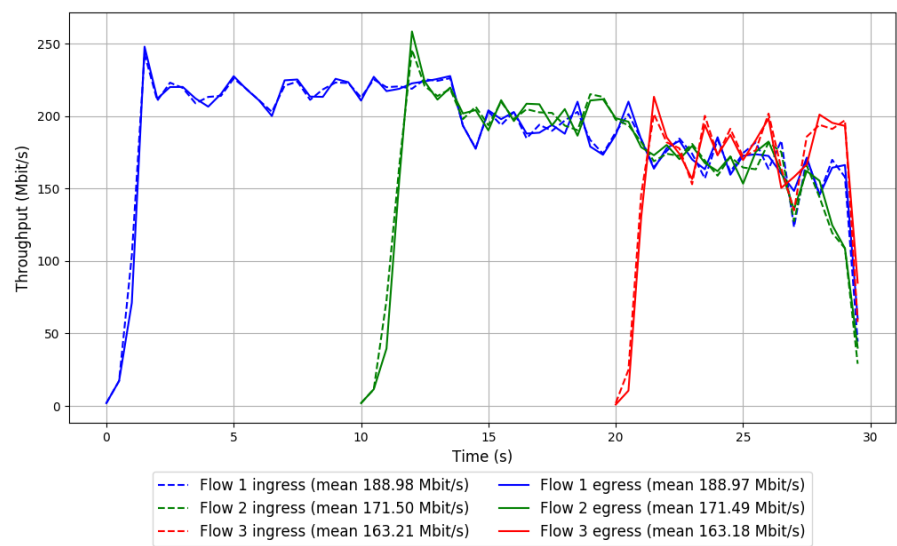
-- Flow 3:

Average throughput: 163.18 Mbit/s

95th percentile per-packet one-way delay: 75.808 ms

Loss rate: 0.00%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-17 10:05:50

End at: 2017-11-17 10:06:20

Below is generated by plot.py at 2017-11-17 12:24:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 353.22 Mbit/s

95th percentile per-packet one-way delay: 65.580 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 196.38 Mbit/s

95th percentile per-packet one-way delay: 64.931 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 180.27 Mbit/s

95th percentile per-packet one-way delay: 66.679 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 115.25 Mbit/s

95th percentile per-packet one-way delay: 66.349 ms

Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

