

Pantheon Report

Generated at 2017-11-16 23:33:36 (UTC).

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

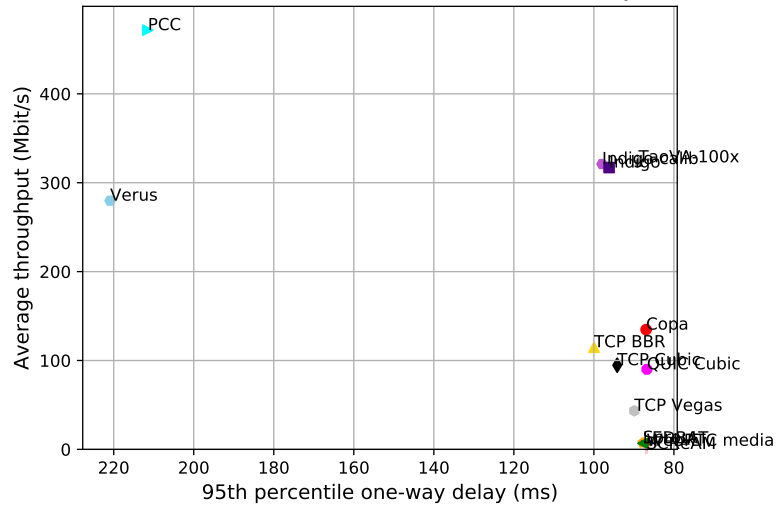
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

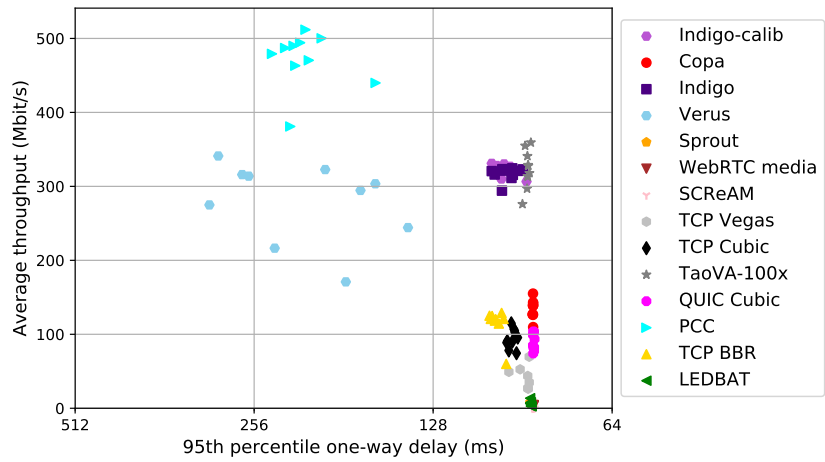
Git summary:

```
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 @ f1a14bffe749737437f61b1eaeab30b267cde681
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 Sydney Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



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



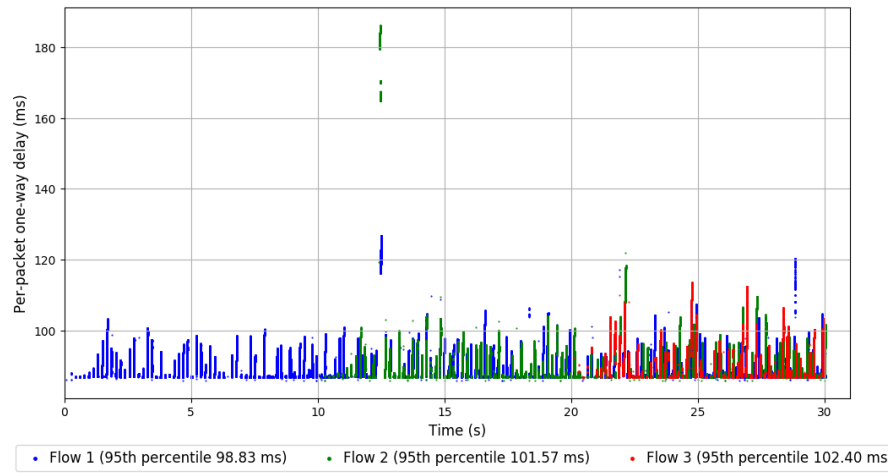
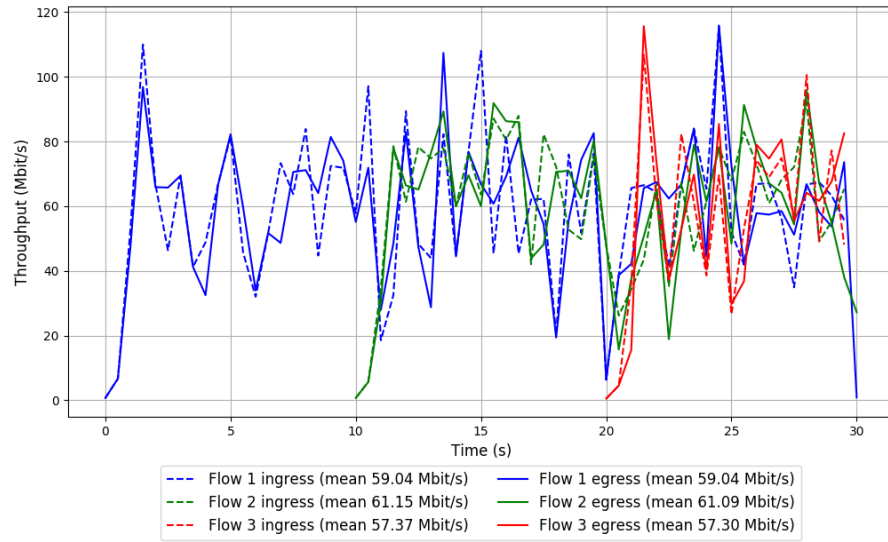
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	9	53.70	61.65	61.60	101.89	100.60	101.99	0.04	0.15	0.11
TCP Cubic	10	43.76	46.44	60.41	91.55	94.13	95.12	0.03	0.10	0.01
LEDBAT	9	3.21	3.63	3.29	320.59	87.70	87.73	0.13	0.26	0.17
PCC	10	433.56	40.54	33.95	211.39	204.69	189.66	1.29	0.77	1.13
QUIC Cubic	10	51.37	43.36	30.59	86.64	86.58	86.71	0.01	0.00	0.00
SCReAM	10	0.22	0.22	0.22	86.66	86.57	86.75	0.00	0.00	0.00
WebRTC media	10	2.18	1.35	0.51	86.66	86.80	86.96	0.01	0.00	0.00
Sprout	9	3.91	3.76	2.80	87.76	87.71	87.61	0.30	0.06	0.00
TaoVA-100x	10	187.36	160.53	115.04	88.19	90.25	90.88	0.02	0.01	0.01
TCP Vegas	7	16.54	27.04	26.70	89.39	89.33	90.29	0.07	0.08	0.01
Verus	10	196.69	104.25	46.69	202.82	225.71	210.01	1.44	2.28	2.58
Copa	10	75.77	63.81	63.33	86.93	86.95	87.00	0.01	0.01	0.01
Indigo	10	170.35	156.78	133.03	93.53	98.20	101.06	0.02	0.01	0.02
Indigo-calib	9	170.65	159.75	138.68	95.09	98.28	101.78	0.02	0.01	0.05

```
Run 1: Statistics of TCP BBR

Start at: 2017-11-16 19:23:00
End at: 2017-11-16 19:23:30

# Below is generated by plot.py at 2017-11-16 22:42:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 118.52 Mbit/s
95th percentile per-packet one-way delay: 100.772 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 59.04 Mbit/s
95th percentile per-packet one-way delay: 98.825 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 61.09 Mbit/s
95th percentile per-packet one-way delay: 101.572 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 57.30 Mbit/s
95th percentile per-packet one-way delay: 102.396 ms
Loss rate: 0.00%
```


Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-16 19:35:52

End at: 2017-11-16 19:36:22

Below is generated by plot.py at 2017-11-16 22:42:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.70 Mbit/s

95th percentile per-packet one-way delay: 101.861 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 62.46 Mbit/s

95th percentile per-packet one-way delay: 100.846 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 65.49 Mbit/s

95th percentile per-packet one-way delay: 101.935 ms

Loss rate: 0.02%

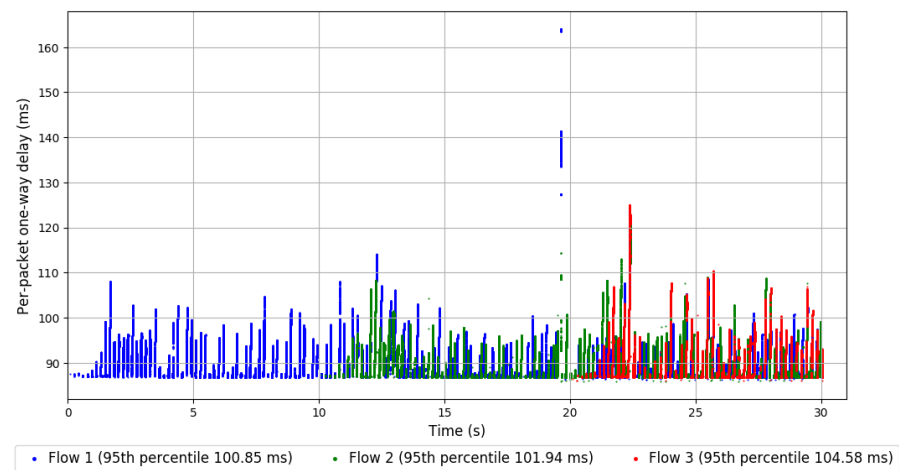
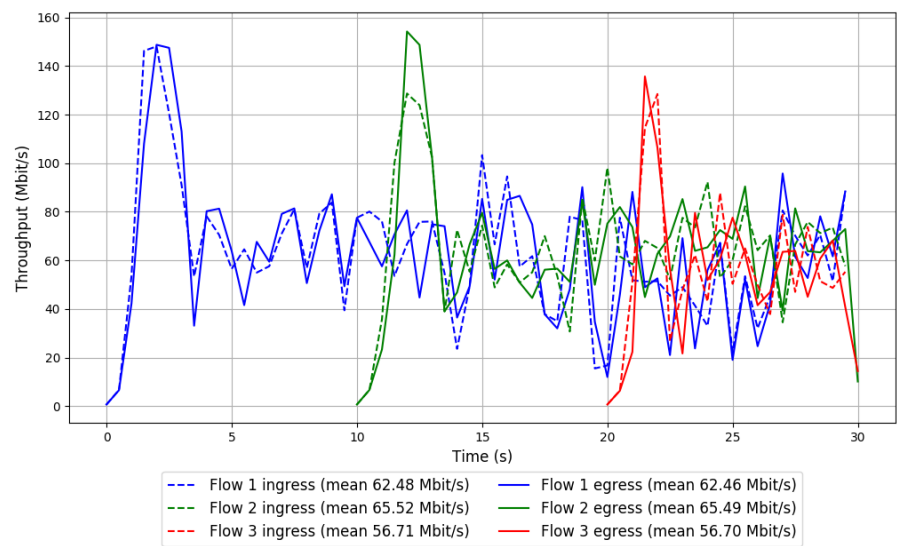
-- Flow 3:

Average throughput: 56.70 Mbit/s

95th percentile per-packet one-way delay: 104.585 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-16 19:48:50

End at: 2017-11-16 19:49:20

Below is generated by plot.py at 2017-11-16 22:42:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 114.51 Mbit/s

95th percentile per-packet one-way delay: 99.237 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 59.31 Mbit/s

95th percentile per-packet one-way delay: 98.637 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 57.06 Mbit/s

95th percentile per-packet one-way delay: 97.115 ms

Loss rate: 0.64%

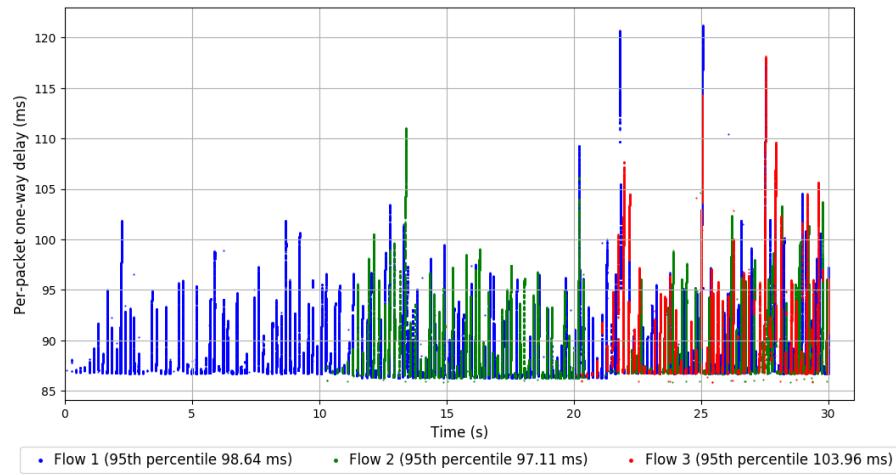
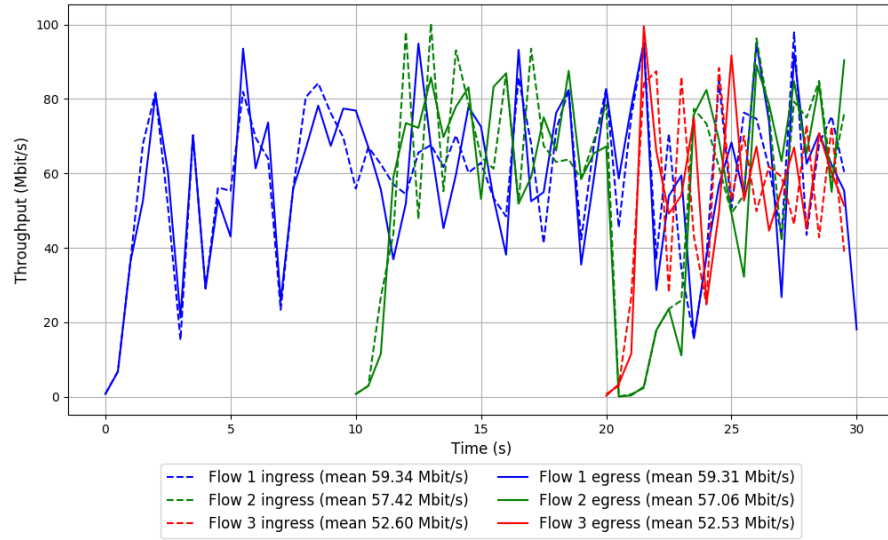
-- Flow 3:

Average throughput: 52.53 Mbit/s

95th percentile per-packet one-way delay: 103.959 ms

Loss rate: 0.03%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-16 20:01:43

End at: 2017-11-16 20:02:13

Below is generated by plot.py at 2017-11-16 22:42:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.99 Mbit/s

95th percentile per-packet one-way delay: 96.437 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 126.394 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.62 Mbit/s

95th percentile per-packet one-way delay: 96.383 ms

Loss rate: 0.30%

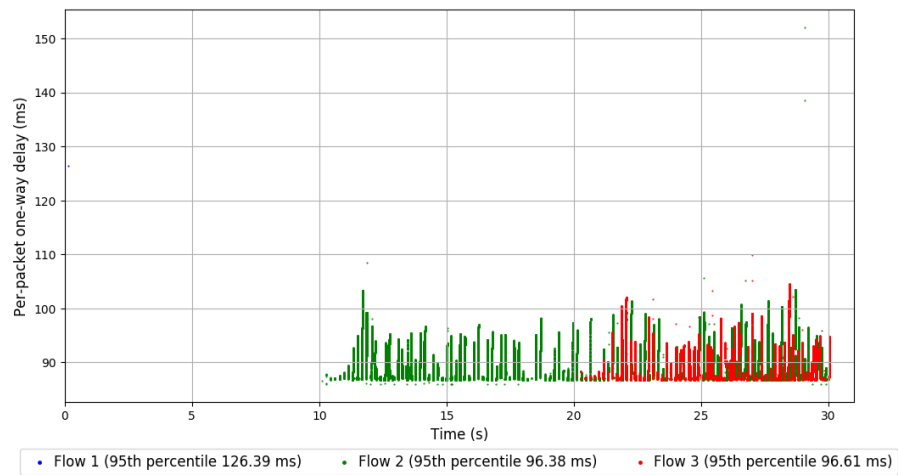
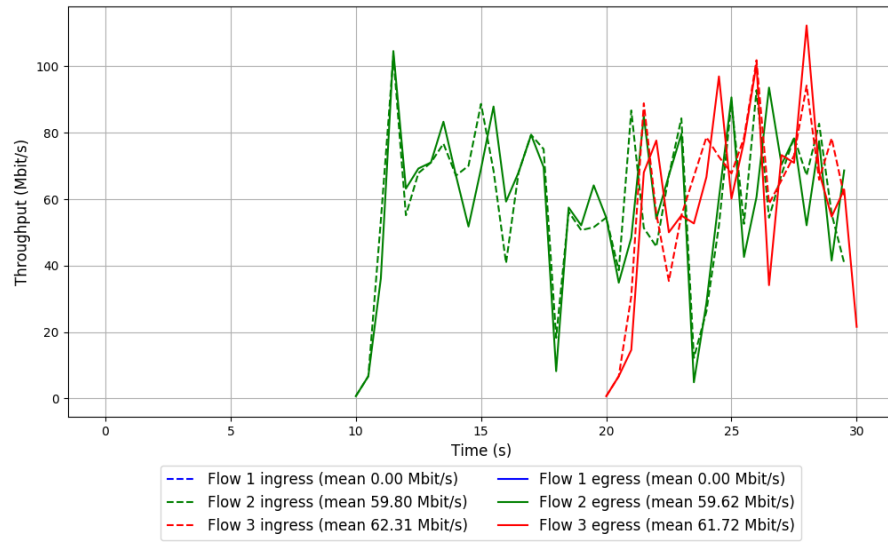
-- Flow 3:

Average throughput: 61.72 Mbit/s

95th percentile per-packet one-way delay: 96.608 ms

Loss rate: 0.89%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-16 20:14:27

End at: 2017-11-16 20:14:57

Below is generated by plot.py at 2017-11-16 22:42:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.14 Mbit/s

95th percentile per-packet one-way delay: 102.899 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 61.48 Mbit/s

95th percentile per-packet one-way delay: 98.461 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 62.95 Mbit/s

95th percentile per-packet one-way delay: 106.398 ms

Loss rate: 0.00%

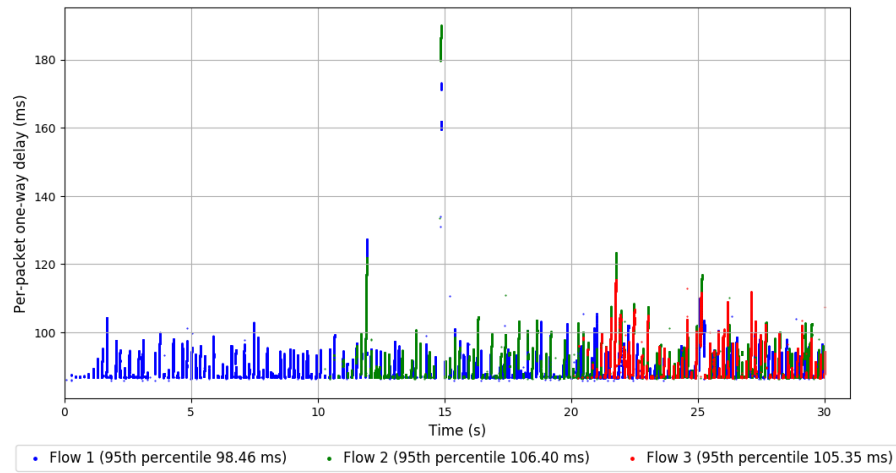
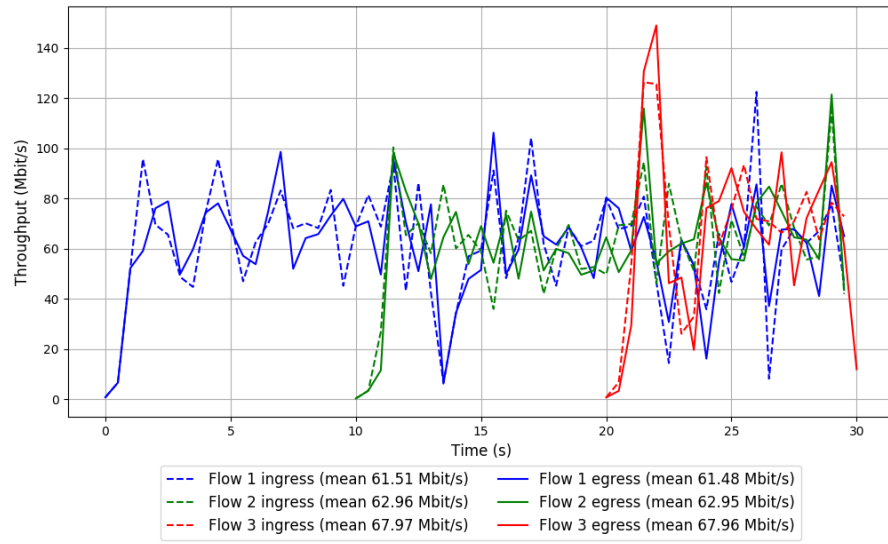
-- Flow 3:

Average throughput: 67.96 Mbit/s

95th percentile per-packet one-way delay: 105.349 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link

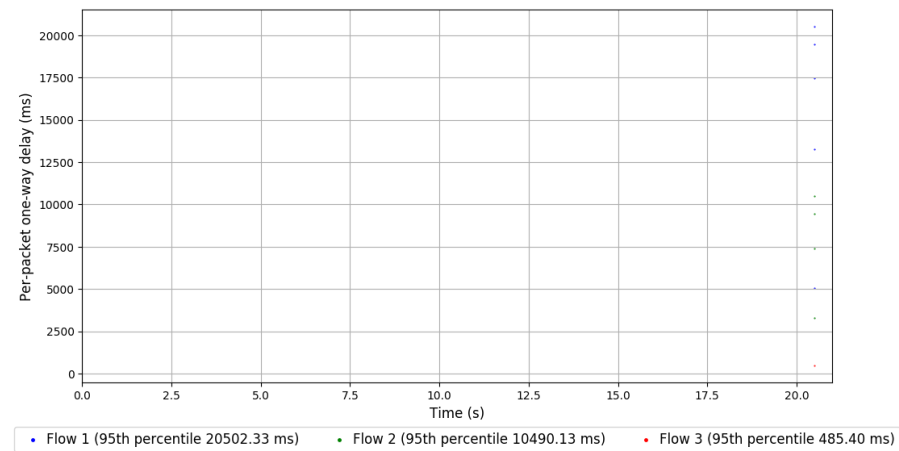
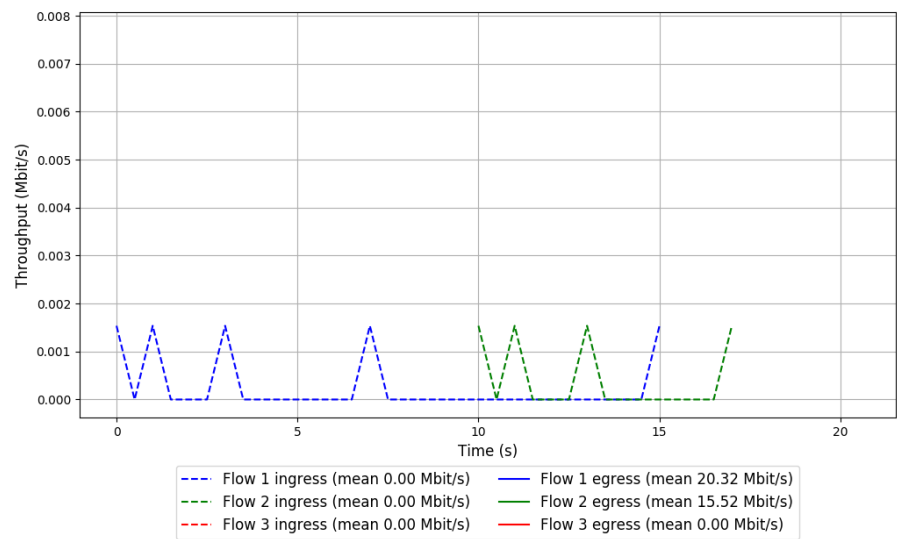


Run 6: Statistics of TCP BBR

Start at: 2017-11-16 20:27:17

End at: 2017-11-16 20:27:47

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-11-16 20:39:46

End at: 2017-11-16 20:40:16

Below is generated by plot.py at 2017-11-16 22:42:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.83 Mbit/s

95th percentile per-packet one-way delay: 97.428 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 57.89 Mbit/s

95th percentile per-packet one-way delay: 95.658 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 64.20 Mbit/s

95th percentile per-packet one-way delay: 98.062 ms

Loss rate: 0.34%

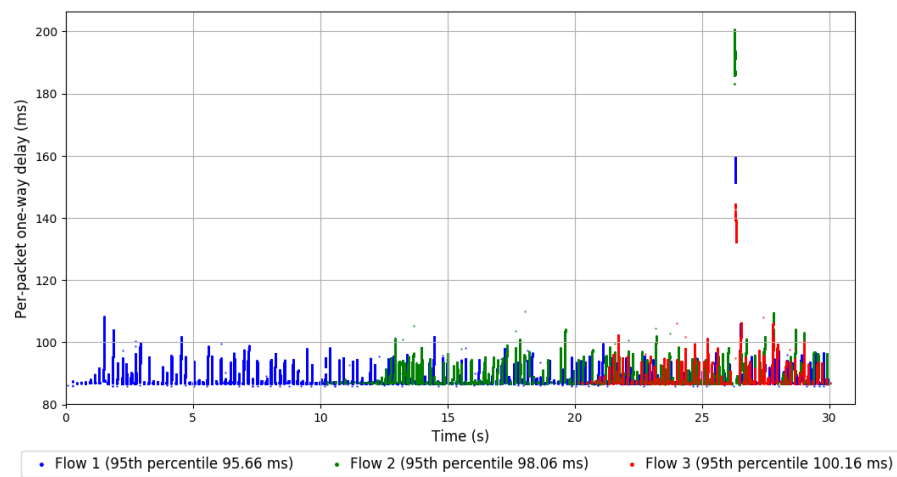
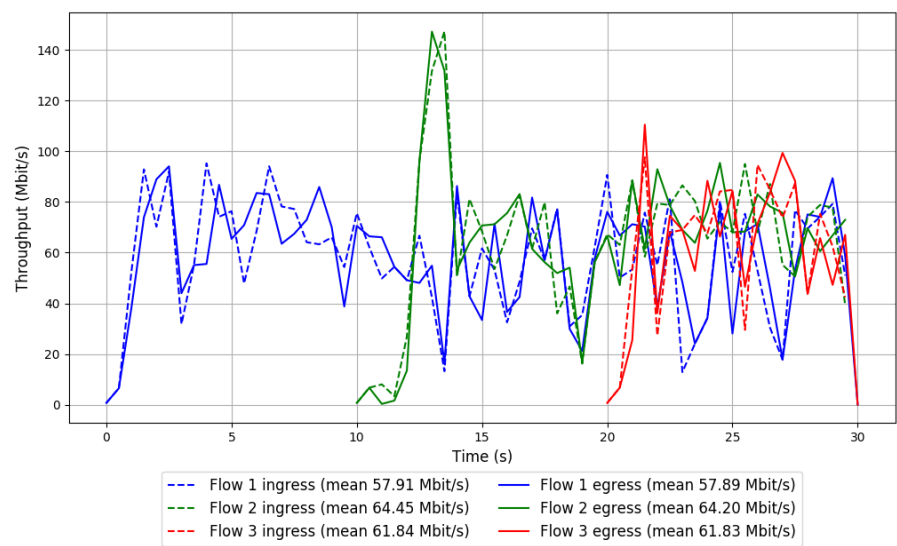
-- Flow 3:

Average throughput: 61.83 Mbit/s

95th percentile per-packet one-way delay: 100.156 ms

Loss rate: 0.03%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-16 20:52:36

End at: 2017-11-16 20:53:06

Below is generated by plot.py at 2017-11-16 22:42:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.45 Mbit/s

95th percentile per-packet one-way delay: 100.479 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 58.99 Mbit/s

95th percentile per-packet one-way delay: 100.147 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 63.40 Mbit/s

95th percentile per-packet one-way delay: 98.169 ms

Loss rate: 0.00%

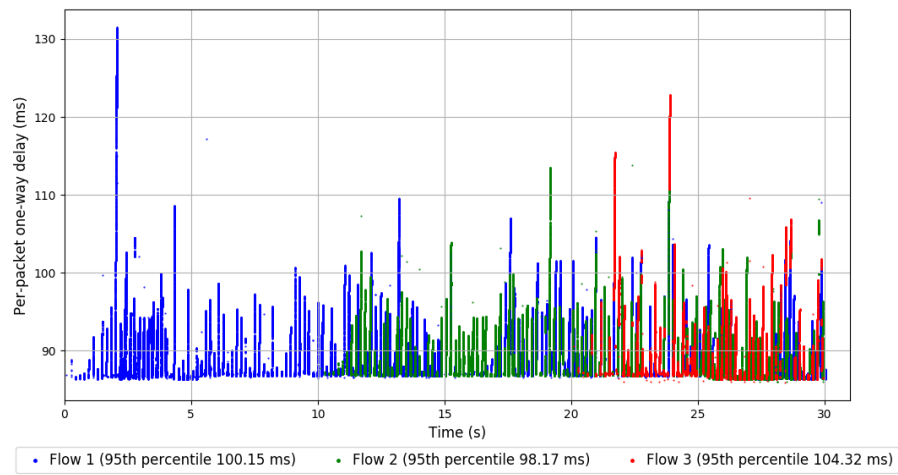
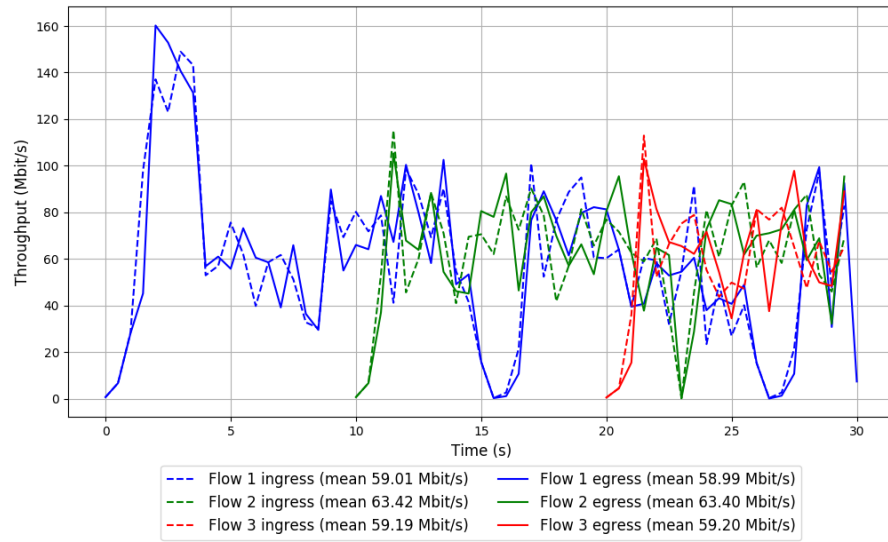
-- Flow 3:

Average throughput: 59.20 Mbit/s

95th percentile per-packet one-way delay: 104.318 ms

Loss rate: 0.03%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-16 21:05:25

End at: 2017-11-16 21:05:55

Below is generated by plot.py at 2017-11-16 22:42:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.81 Mbit/s

95th percentile per-packet one-way delay: 102.377 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 61.43 Mbit/s

95th percentile per-packet one-way delay: 101.222 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 54.21 Mbit/s

95th percentile per-packet one-way delay: 106.231 ms

Loss rate: 0.01%

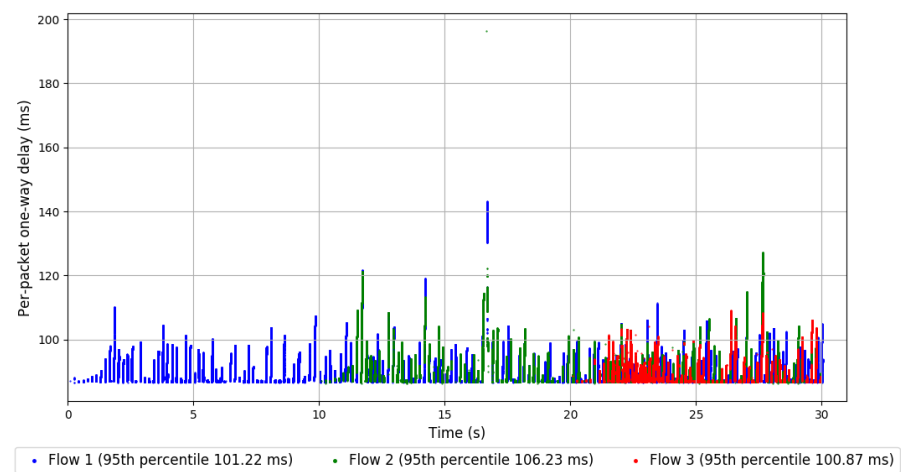
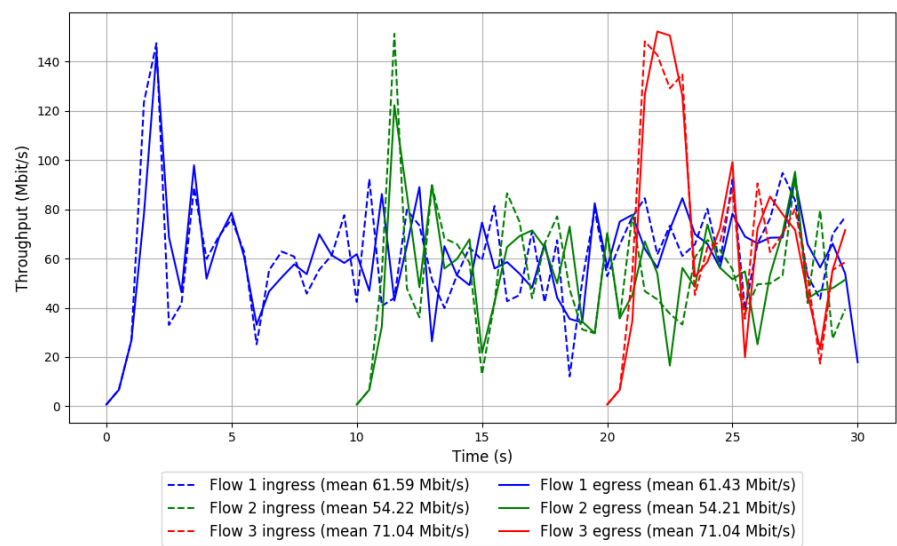
-- Flow 3:

Average throughput: 71.04 Mbit/s

95th percentile per-packet one-way delay: 100.870 ms

Loss rate: 0.01%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-16 21:18:24

End at: 2017-11-16 21:18:54

Below is generated by plot.py at 2017-11-16 22:43:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.92 Mbit/s

95th percentile per-packet one-way delay: 98.192 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 62.72 Mbit/s

95th percentile per-packet one-way delay: 96.850 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 66.81 Mbit/s

95th percentile per-packet one-way delay: 99.566 ms

Loss rate: 0.01%

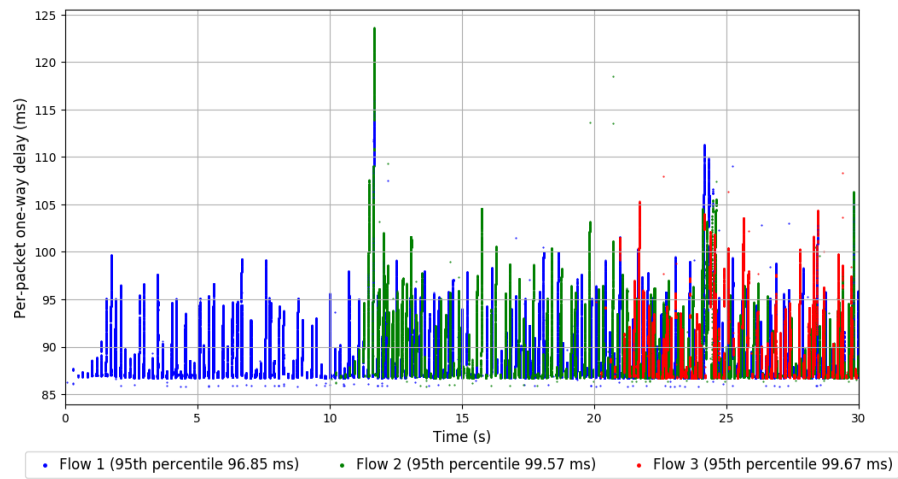
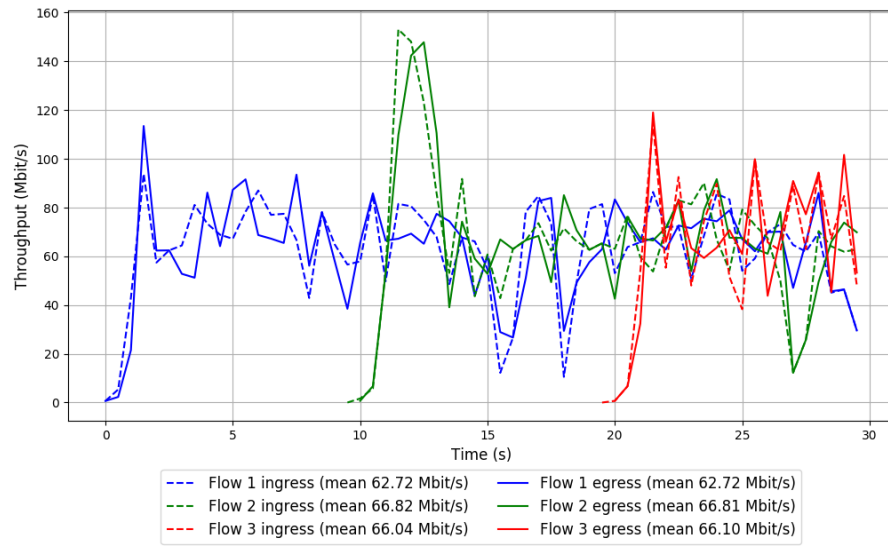
-- Flow 3:

Average throughput: 66.10 Mbit/s

95th percentile per-packet one-way delay: 99.674 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-11-16 19:29:24

End at: 2017-11-16 19:29:54

Below is generated by plot.py at 2017-11-16 22:43:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.75 Mbit/s

95th percentile per-packet one-way delay: 96.039 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 37.71 Mbit/s

95th percentile per-packet one-way delay: 92.243 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 51.87 Mbit/s

95th percentile per-packet one-way delay: 95.764 ms

Loss rate: 0.01%

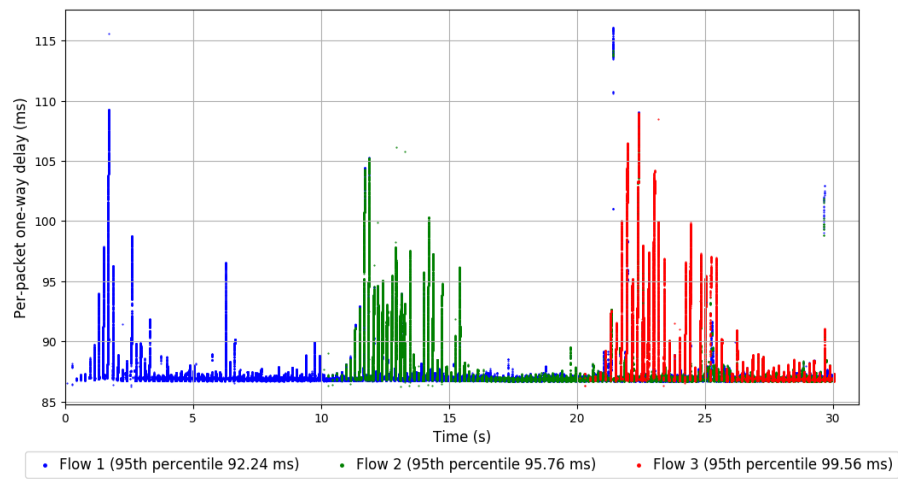
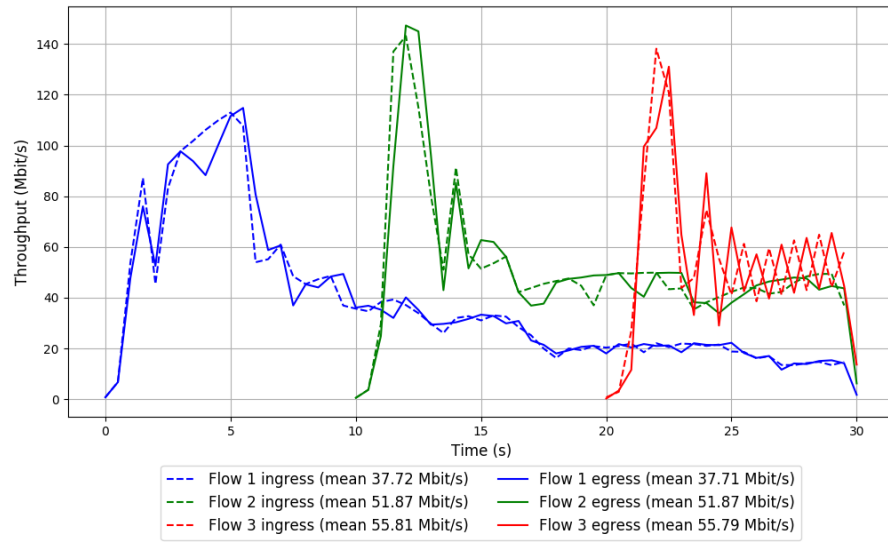
-- Flow 3:

Average throughput: 55.79 Mbit/s

95th percentile per-packet one-way delay: 99.562 ms

Loss rate: 0.03%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-16 19:42:15

End at: 2017-11-16 19:42:45

Below is generated by plot.py at 2017-11-16 22:43:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 102.36 Mbit/s

95th percentile per-packet one-way delay: 93.273 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 48.72 Mbit/s

95th percentile per-packet one-way delay: 90.199 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 49.43 Mbit/s

95th percentile per-packet one-way delay: 95.190 ms

Loss rate: 0.83%

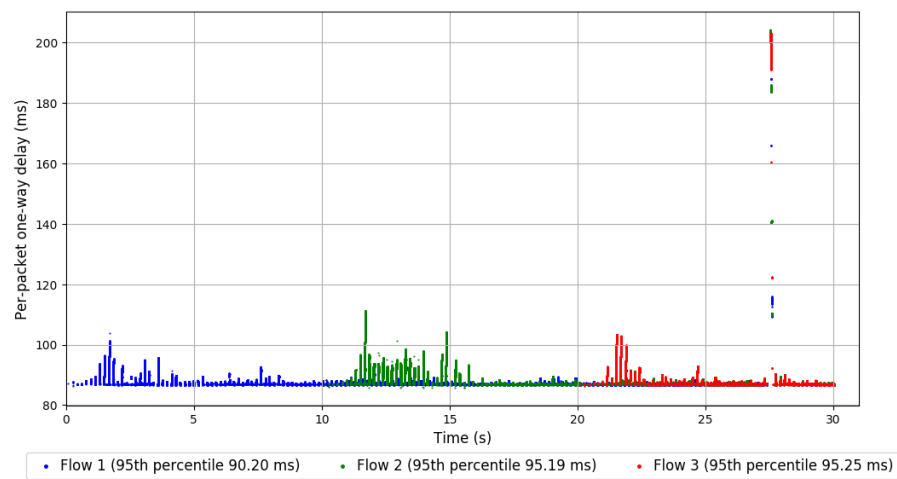
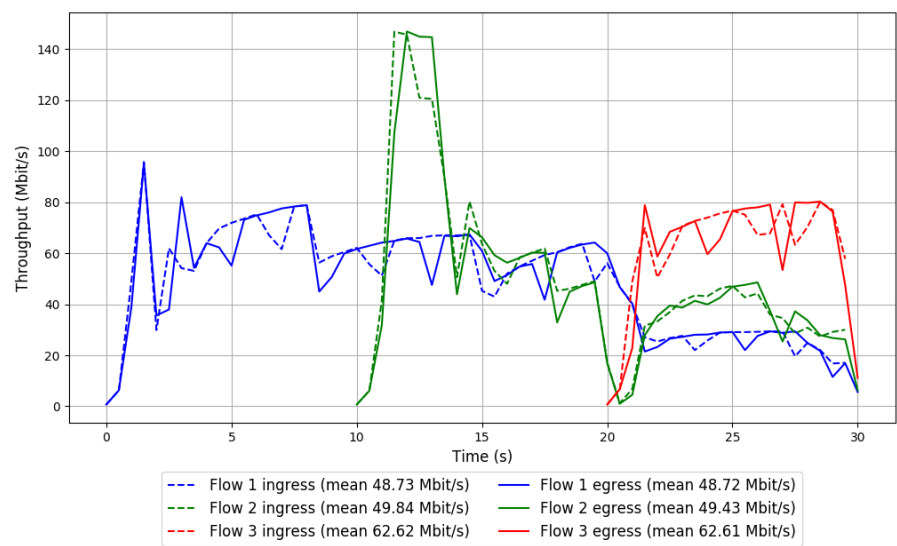
-- Flow 3:

Average throughput: 62.61 Mbit/s

95th percentile per-packet one-way delay: 95.251 ms

Loss rate: 0.01%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-16 19:55:15

End at: 2017-11-16 19:55:45

Below is generated by plot.py at 2017-11-16 22:43:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.68 Mbit/s

95th percentile per-packet one-way delay: 96.281 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 29.85 Mbit/s

95th percentile per-packet one-way delay: 91.237 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 49.06 Mbit/s

95th percentile per-packet one-way delay: 96.474 ms

Loss rate: 0.00%

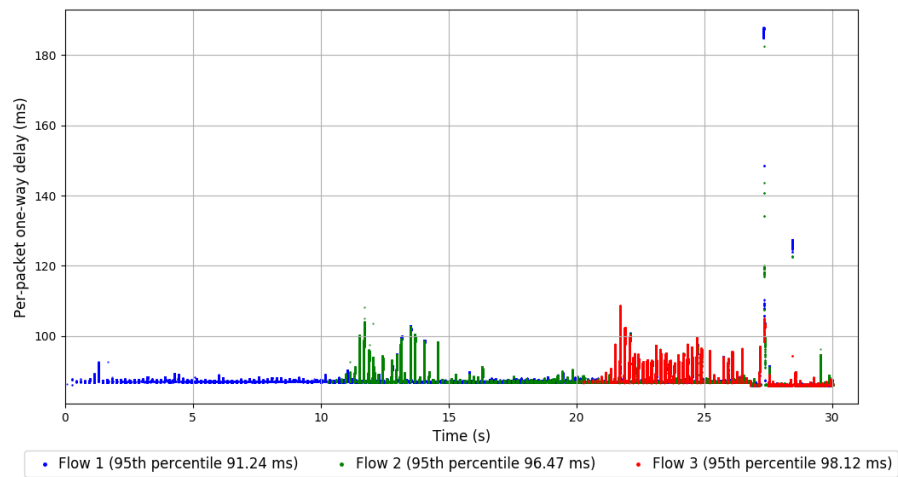
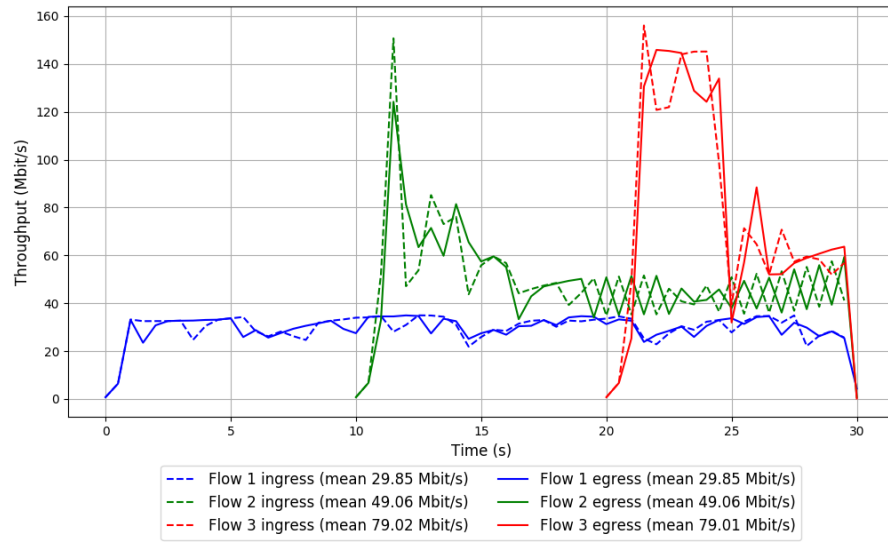
-- Flow 3:

Average throughput: 79.01 Mbit/s

95th percentile per-packet one-way delay: 98.120 ms

Loss rate: 0.01%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-16 20:07:50

End at: 2017-11-16 20:08:20

Below is generated by plot.py at 2017-11-16 22:44:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 114.86 Mbit/s

95th percentile per-packet one-way delay: 94.559 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 50.30 Mbit/s

95th percentile per-packet one-way delay: 94.699 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 49.74 Mbit/s

95th percentile per-packet one-way delay: 96.145 ms

Loss rate: 0.00%

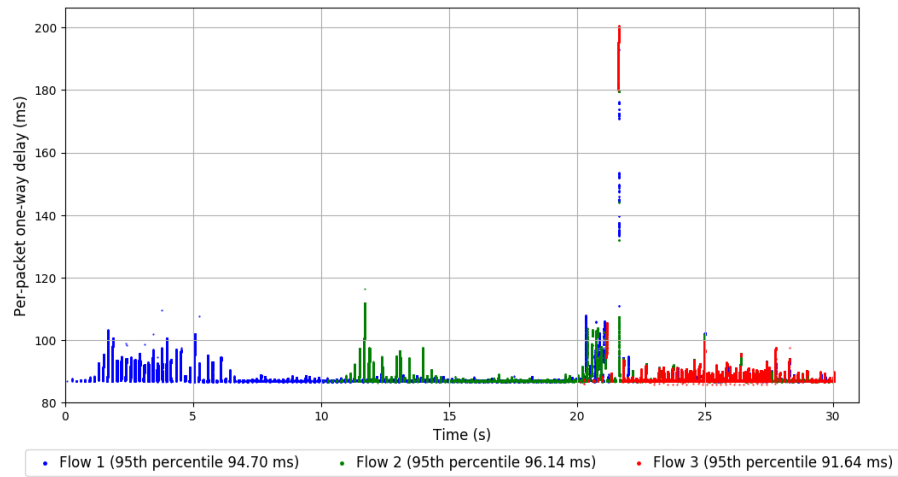
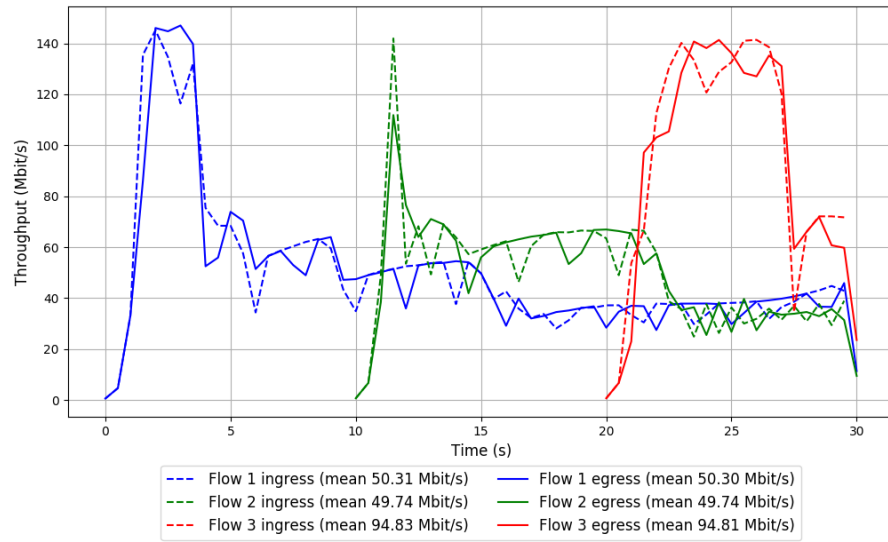
-- Flow 3:

Average throughput: 94.81 Mbit/s

95th percentile per-packet one-way delay: 91.636 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-16 20:20:49

End at: 2017-11-16 20:21:19

Below is generated by plot.py at 2017-11-16 22:44:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.16 Mbit/s

95th percentile per-packet one-way delay: 95.489 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 33.63 Mbit/s

95th percentile per-packet one-way delay: 89.264 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 32.54 Mbit/s

95th percentile per-packet one-way delay: 96.039 ms

Loss rate: 0.02%

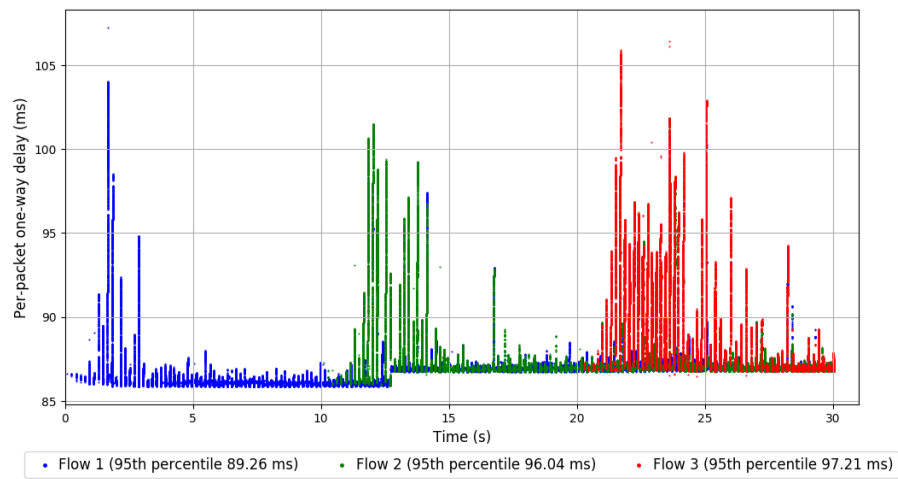
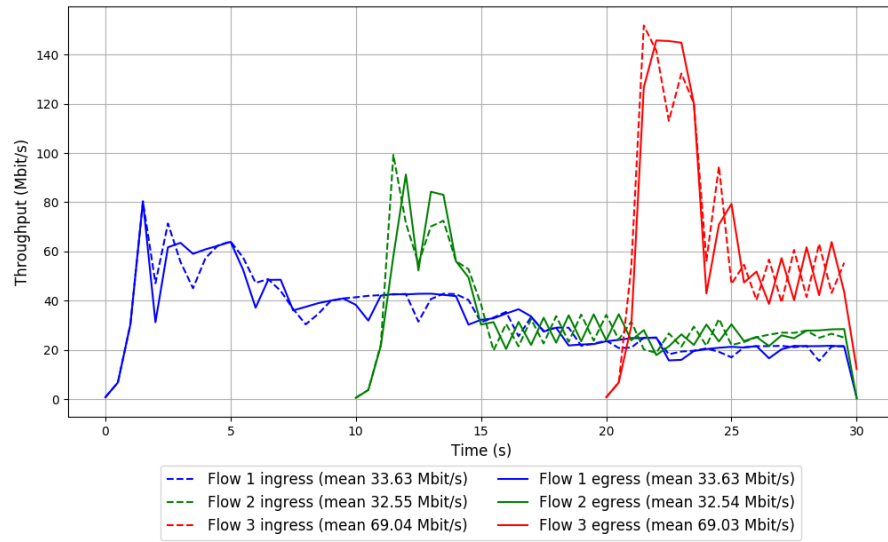
-- Flow 3:

Average throughput: 69.03 Mbit/s

95th percentile per-packet one-way delay: 97.211 ms

Loss rate: 0.01%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-16 20:33:20

End at: 2017-11-16 20:33:50

Below is generated by plot.py at 2017-11-16 22:44:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.42 Mbit/s

95th percentile per-packet one-way delay: 92.677 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 51.14 Mbit/s

95th percentile per-packet one-way delay: 92.947 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 12.44 Mbit/s

95th percentile per-packet one-way delay: 89.414 ms

Loss rate: 0.07%

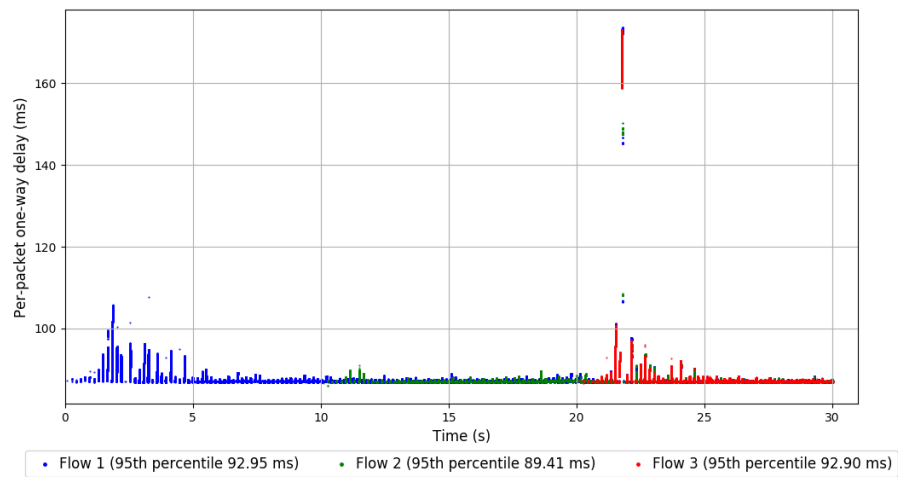
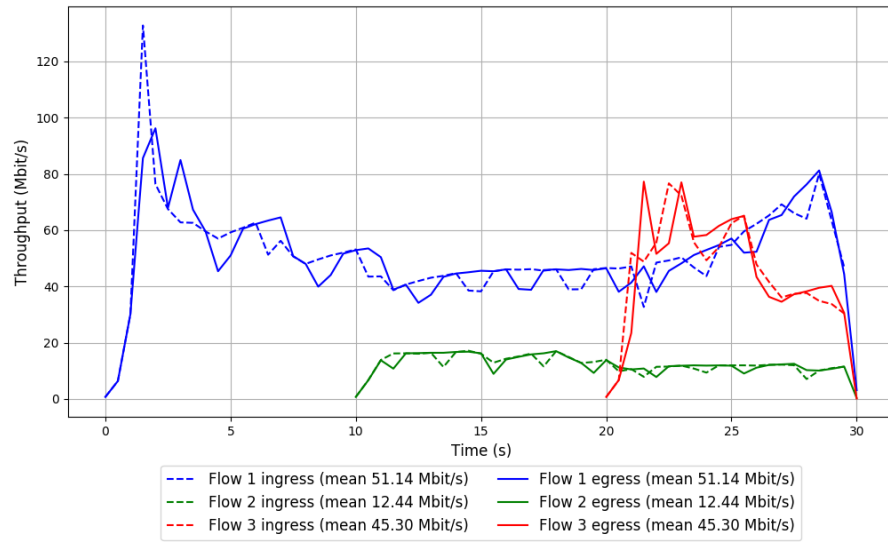
-- Flow 3:

Average throughput: 45.30 Mbit/s

95th percentile per-packet one-way delay: 92.897 ms

Loss rate: 0.01%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-16 20:46:03

End at: 2017-11-16 20:46:33

Below is generated by plot.py at 2017-11-16 22:44:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.87 Mbit/s

95th percentile per-packet one-way delay: 93.363 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 47.50 Mbit/s

95th percentile per-packet one-way delay: 93.157 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 54.50 Mbit/s

95th percentile per-packet one-way delay: 93.403 ms

Loss rate: 0.01%

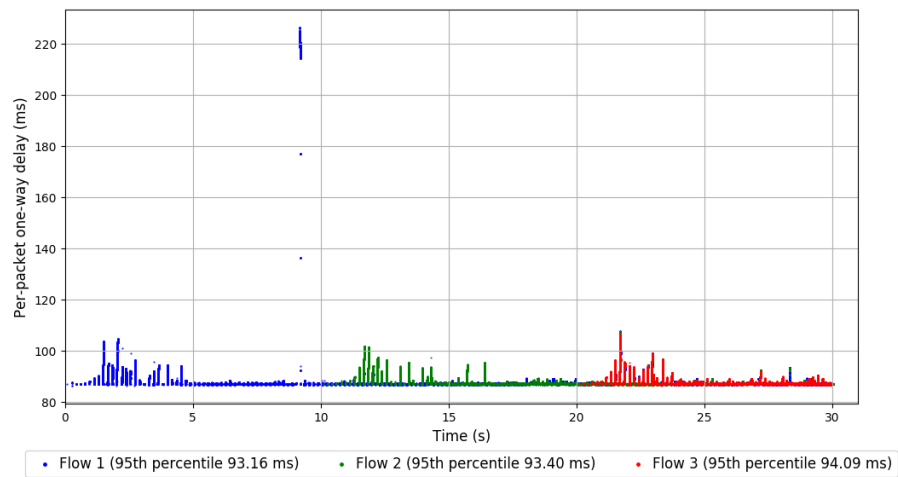
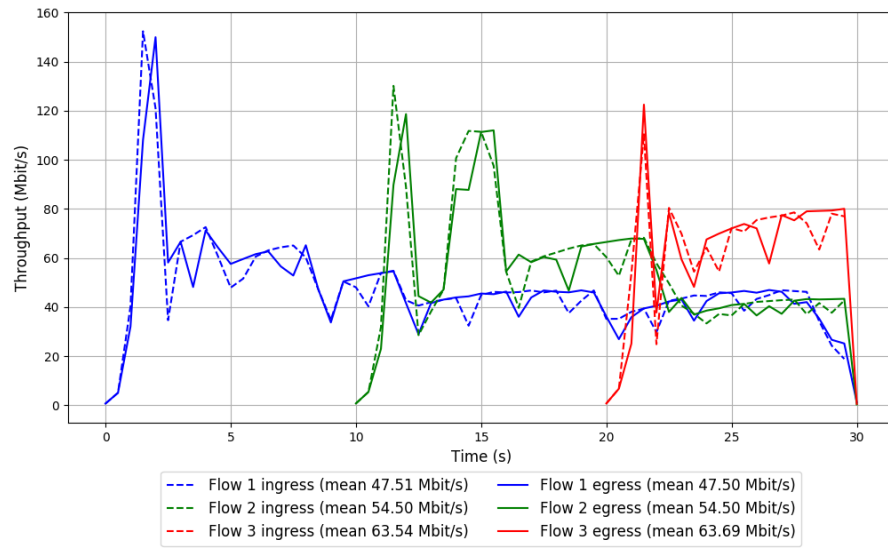
-- Flow 3:

Average throughput: 63.69 Mbit/s

95th percentile per-packet one-way delay: 94.094 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-16 20:58:56

End at: 2017-11-16 20:59:26

Below is generated by plot.py at 2017-11-16 22:45:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.55 Mbit/s

95th percentile per-packet one-way delay: 92.250 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 36.53 Mbit/s

95th percentile per-packet one-way delay: 89.490 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.98 Mbit/s

95th percentile per-packet one-way delay: 90.900 ms

Loss rate: 0.00%

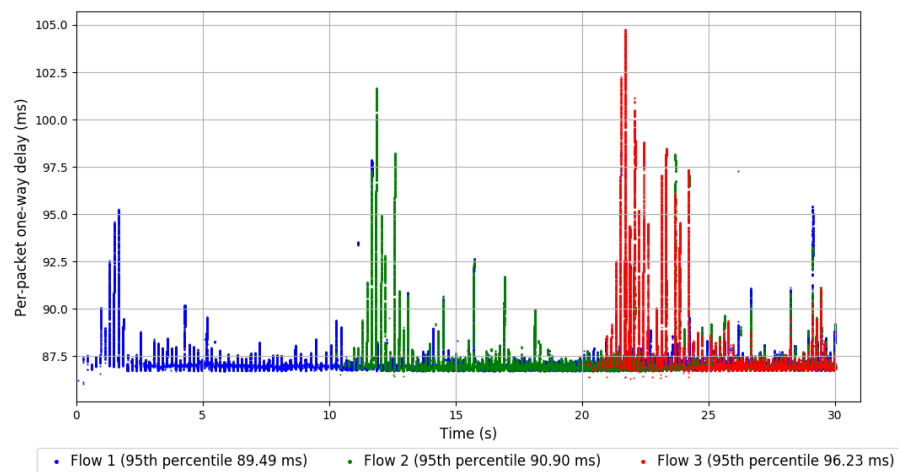
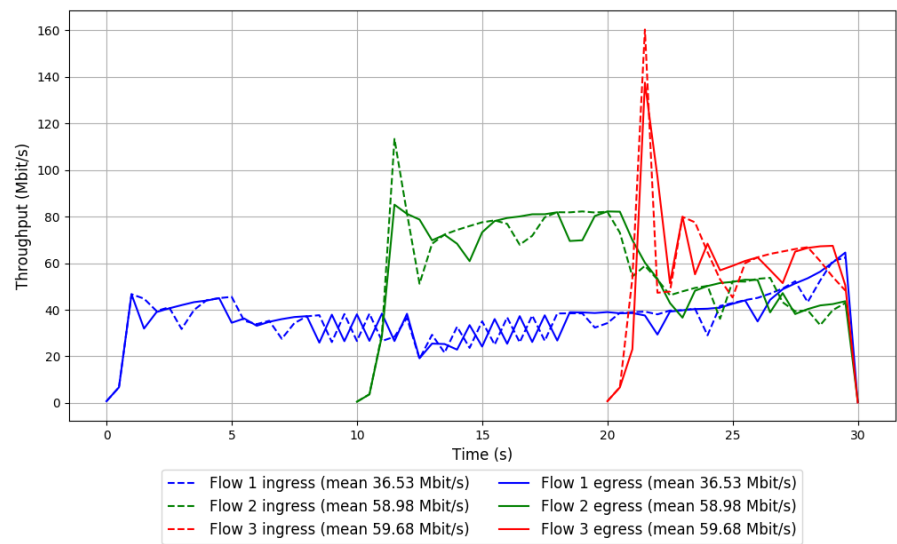
-- Flow 3:

Average throughput: 59.68 Mbit/s

95th percentile per-packet one-way delay: 96.232 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-16 21:11:56

End at: 2017-11-16 21:12:26

Below is generated by plot.py at 2017-11-16 22:45:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.22 Mbit/s

95th percentile per-packet one-way delay: 94.169 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 43.02 Mbit/s

95th percentile per-packet one-way delay: 91.293 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.74 Mbit/s

95th percentile per-packet one-way delay: 93.354 ms

Loss rate: 0.01%

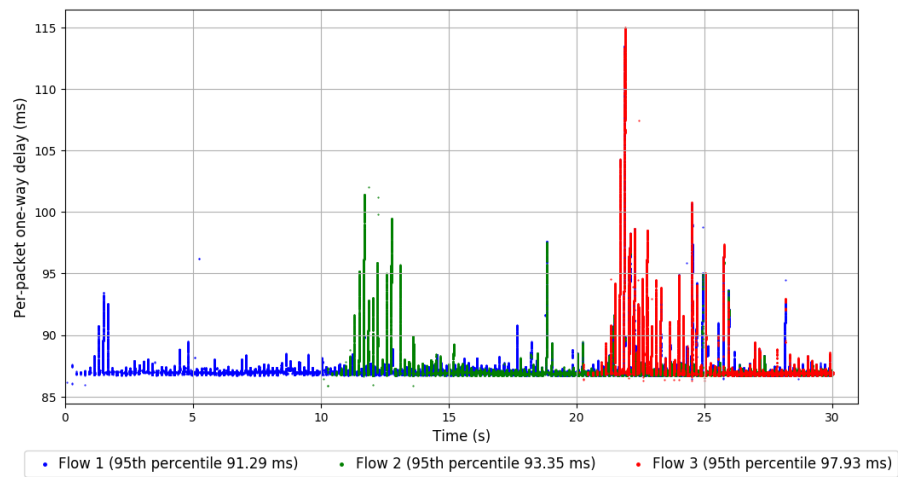
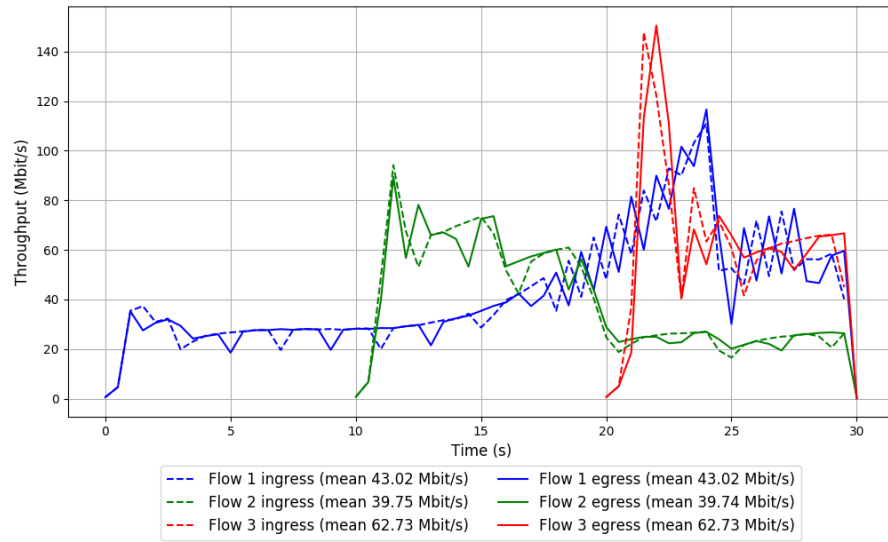
-- Flow 3:

Average throughput: 62.73 Mbit/s

95th percentile per-packet one-way delay: 97.934 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-16 21:24:52

End at: 2017-11-16 21:25:22

Below is generated by plot.py at 2017-11-16 22:45:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 106.95 Mbit/s

95th percentile per-packet one-way delay: 93.637 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 59.20 Mbit/s

95th percentile per-packet one-way delay: 90.970 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 66.05 Mbit/s

95th percentile per-packet one-way delay: 94.656 ms

Loss rate: 0.00%

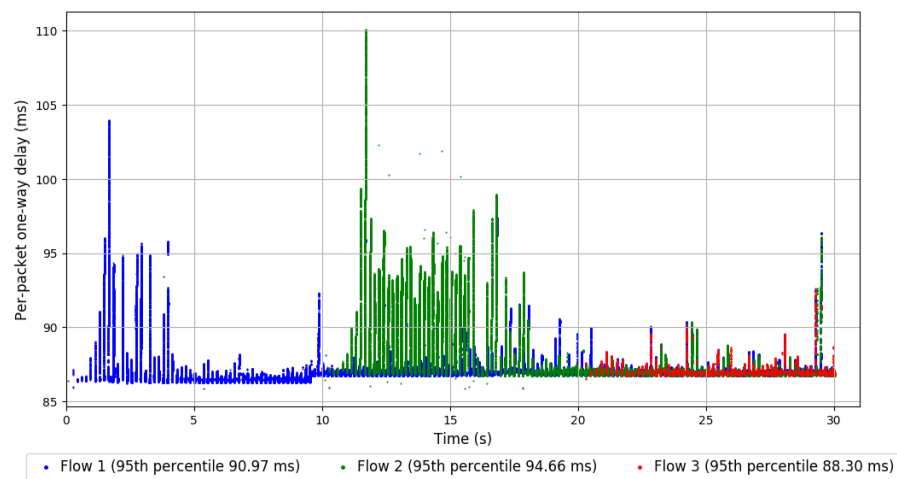
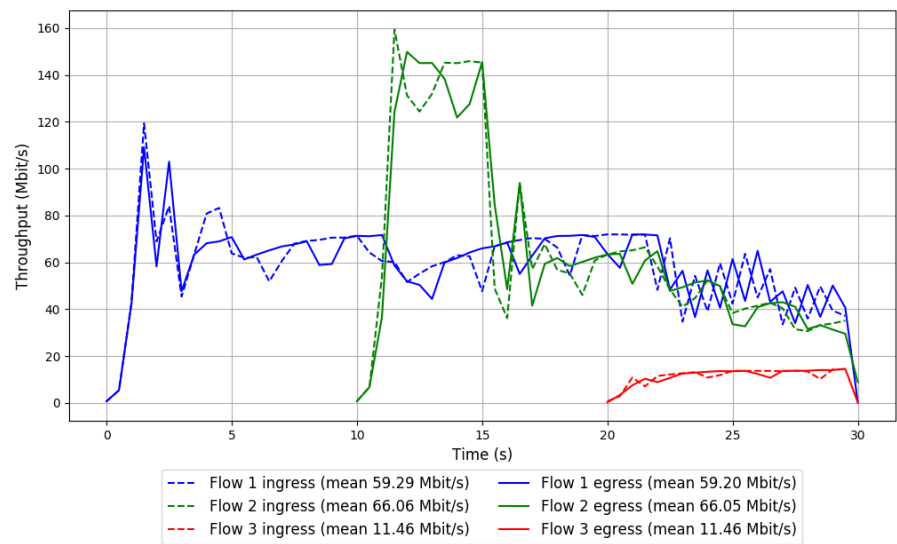
-- Flow 3:

Average throughput: 11.46 Mbit/s

95th percentile per-packet one-way delay: 88.298 ms

Loss rate: 0.01%

Run 10: Report of TCP Cubic — Data Link

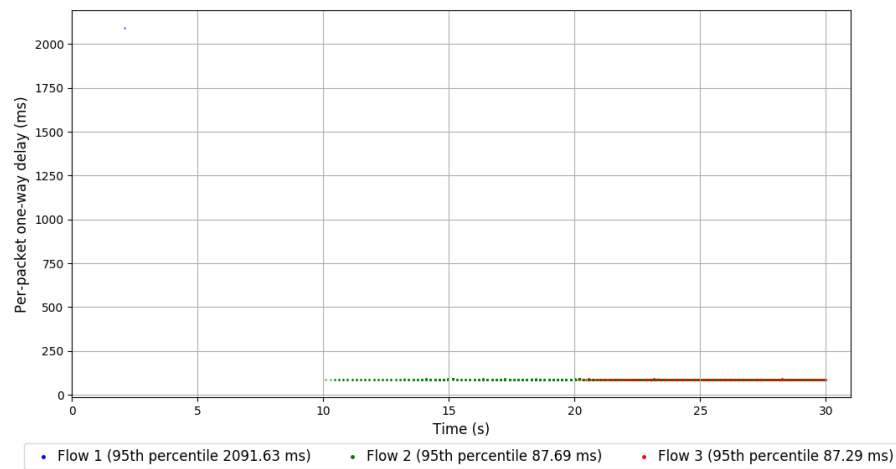
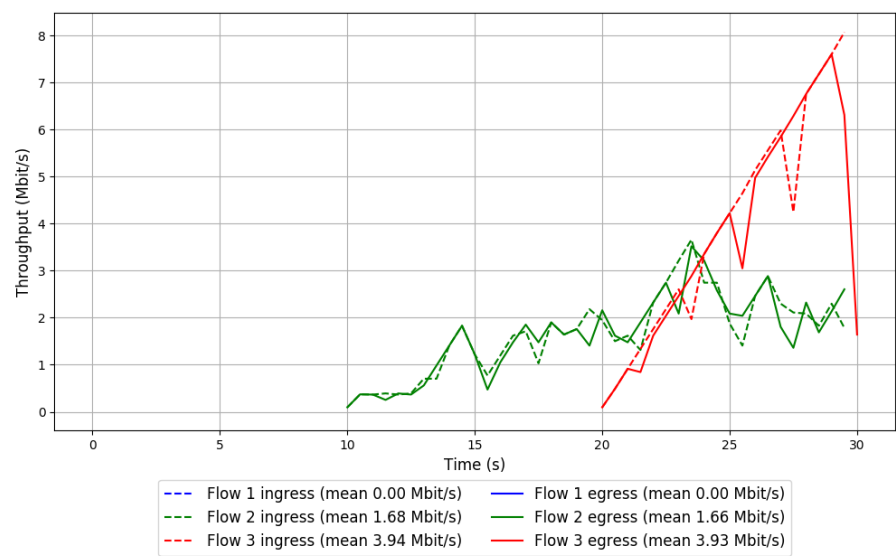


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-16 19:27:58
End at: 2017-11-16 19:28:28

# Below is generated by plot.py at 2017-11-16 22:45:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.57 Mbit/s
95th percentile per-packet one-way delay: 87.387 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 2091.627 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.66 Mbit/s
95th percentile per-packet one-way delay: 87.691 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 3.93 Mbit/s
95th percentile per-packet one-way delay: 87.286 ms
Loss rate: 0.15%
```


Run 1: Report of LEDBAT — Data Link

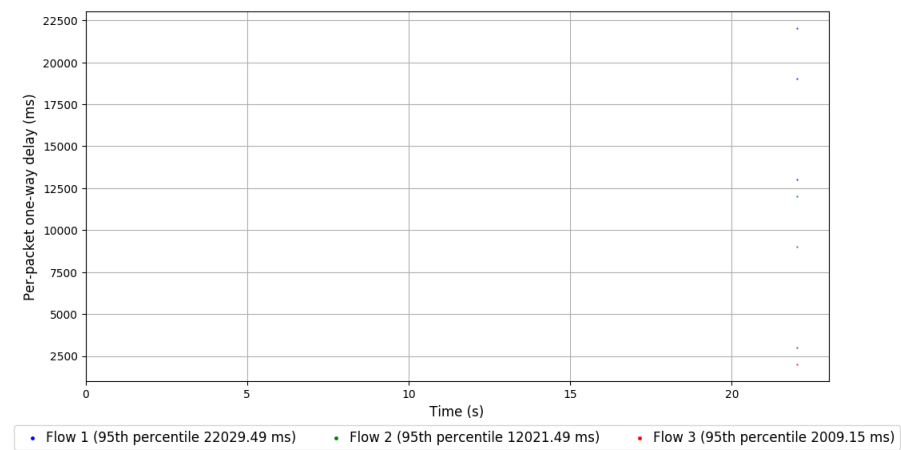
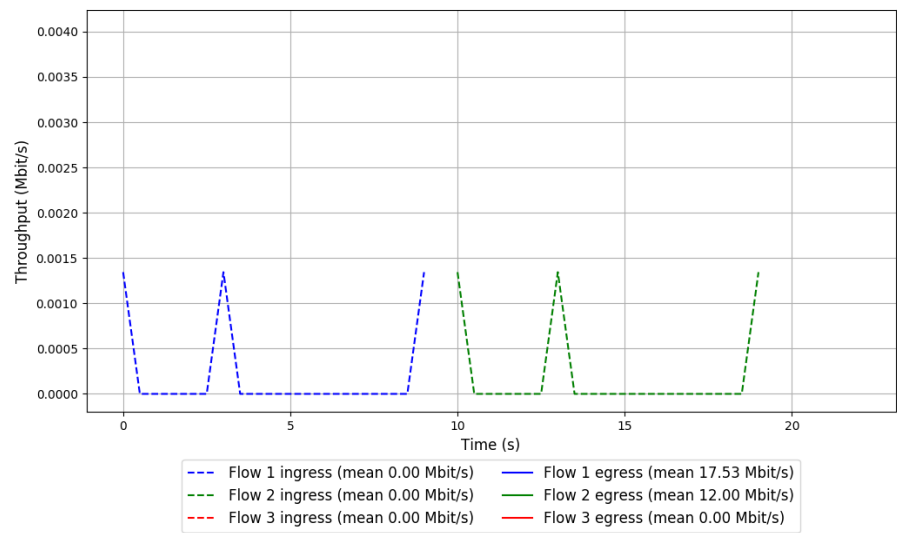


Run 2: Statistics of LEDBAT

Start at: 2017-11-16 19:40:48

End at: 2017-11-16 19:41:18

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-11-16 19:53:47

End at: 2017-11-16 19:54:17

Below is generated by plot.py at 2017-11-16 22:45:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.60 Mbit/s

95th percentile per-packet one-way delay: 87.920 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 7.57 Mbit/s

95th percentile per-packet one-way delay: 87.875 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 7.15 Mbit/s

95th percentile per-packet one-way delay: 87.983 ms

Loss rate: 0.02%

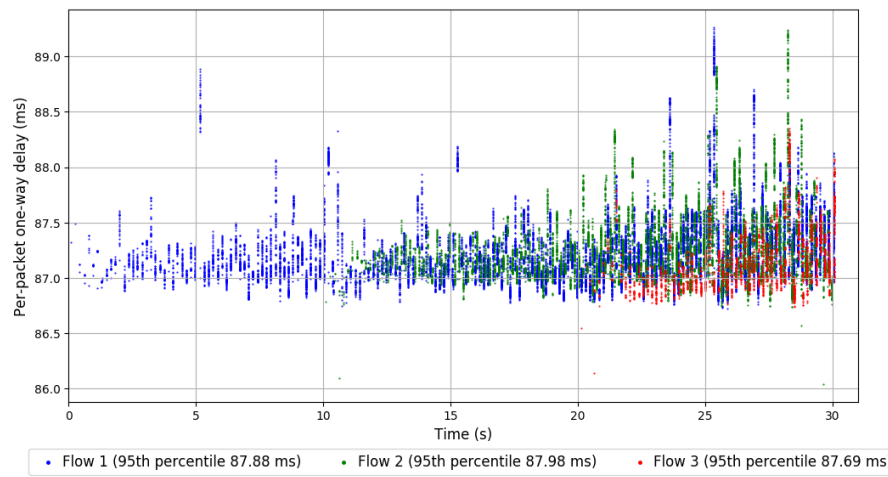
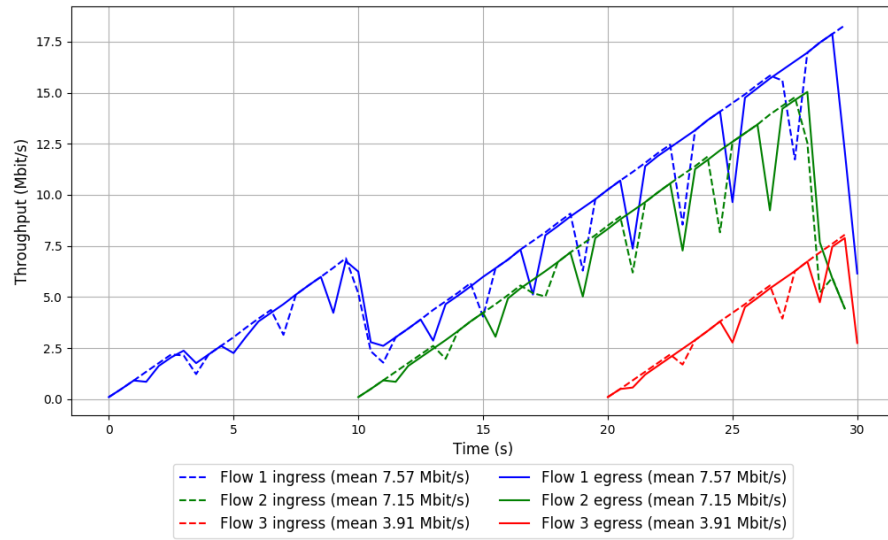
-- Flow 3:

Average throughput: 3.91 Mbit/s

95th percentile per-packet one-way delay: 87.686 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-16 20:06:23

End at: 2017-11-16 20:06:53

Below is generated by plot.py at 2017-11-16 22:45:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.60 Mbit/s

95th percentile per-packet one-way delay: 87.877 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 4.18 Mbit/s

95th percentile per-packet one-way delay: 87.980 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 2.49 Mbit/s

95th percentile per-packet one-way delay: 87.671 ms

Loss rate: 0.05%

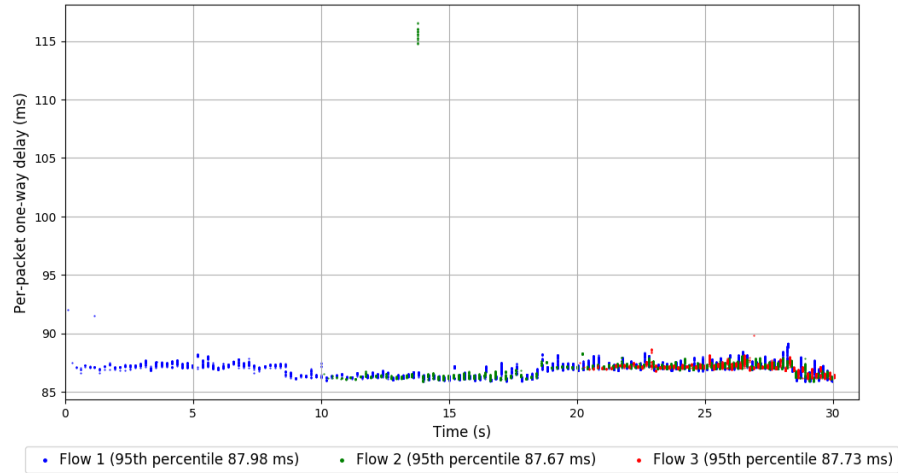
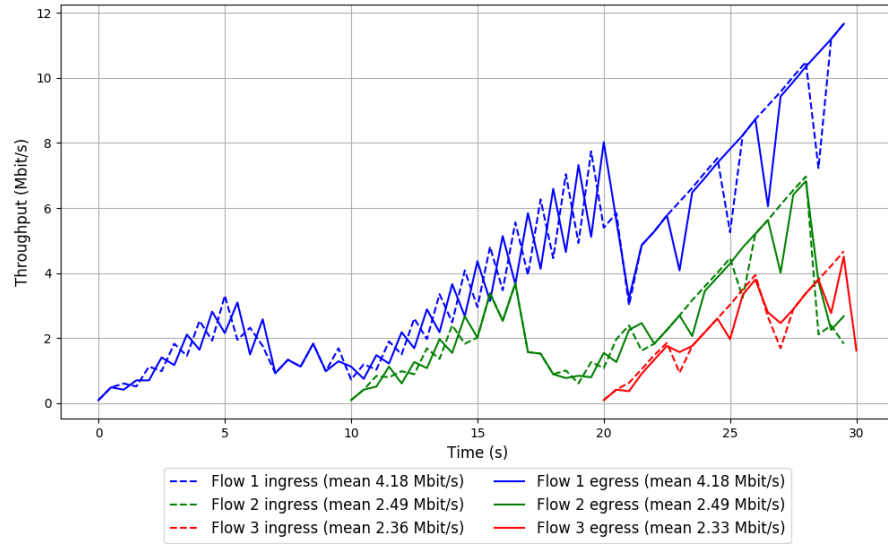
-- Flow 3:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 87.732 ms

Loss rate: 0.95%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-11-16 20:19:22

End at: 2017-11-16 20:19:52

Below is generated by plot.py at 2017-11-16 22:45:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.98 Mbit/s

95th percentile per-packet one-way delay: 87.706 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 178.251 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.94 Mbit/s

95th percentile per-packet one-way delay: 87.552 ms

Loss rate: 0.08%

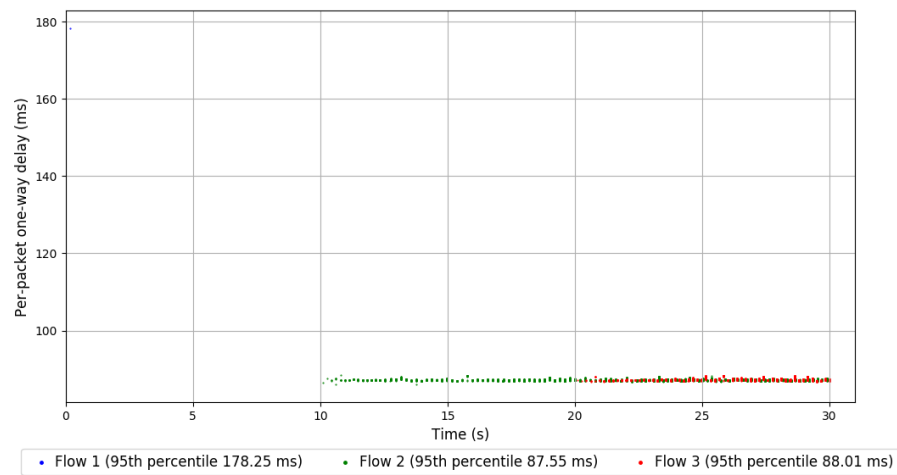
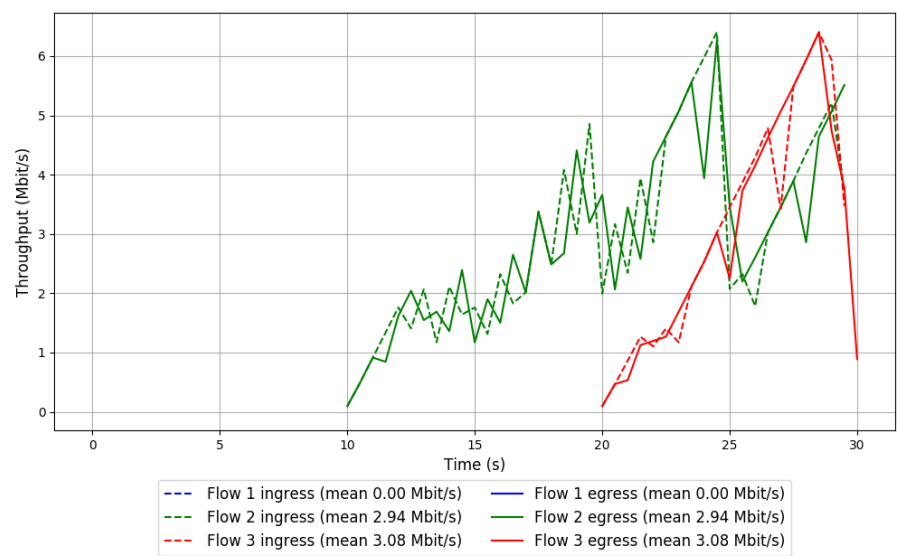
-- Flow 3:

Average throughput: 3.08 Mbit/s

95th percentile per-packet one-way delay: 88.010 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-16 20:31:53

End at: 2017-11-16 20:32:23

Below is generated by plot.py at 2017-11-16 22:45:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 87.861 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 2.83 Mbit/s

95th percentile per-packet one-way delay: 87.981 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 87.671 ms

Loss rate: 0.07%

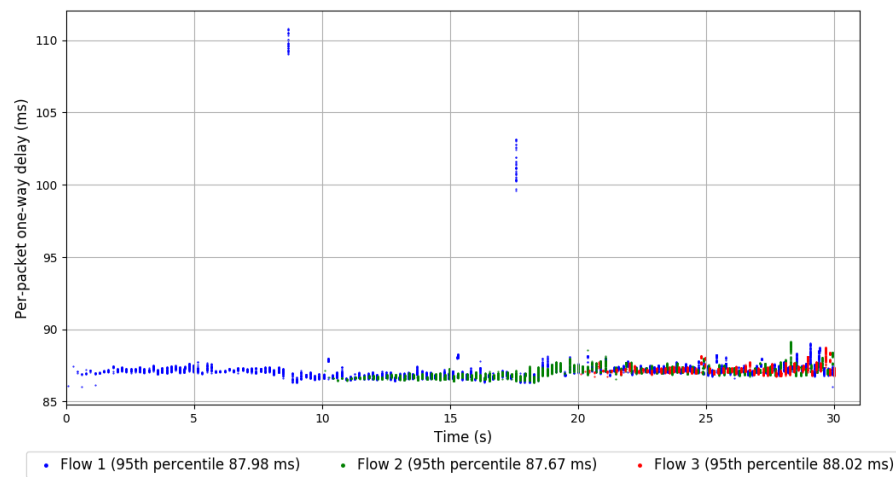
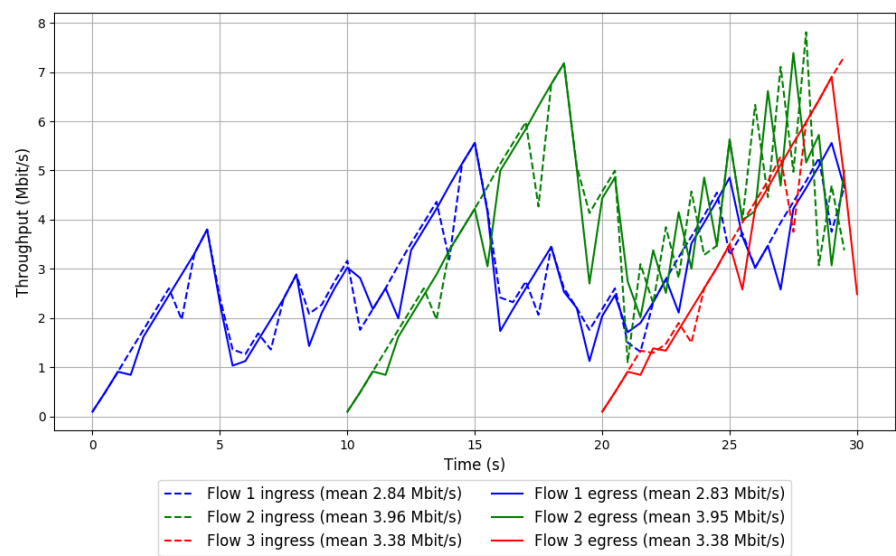
-- Flow 3:

Average throughput: 3.38 Mbit/s

95th percentile per-packet one-way delay: 88.016 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-11-16 20:44:36

End at: 2017-11-16 20:45:06

Below is generated by plot.py at 2017-11-16 22:45:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.35 Mbit/s

95th percentile per-packet one-way delay: 87.790 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 2.98 Mbit/s

95th percentile per-packet one-way delay: 87.925 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 3.18 Mbit/s

95th percentile per-packet one-way delay: 87.614 ms

Loss rate: 0.20%

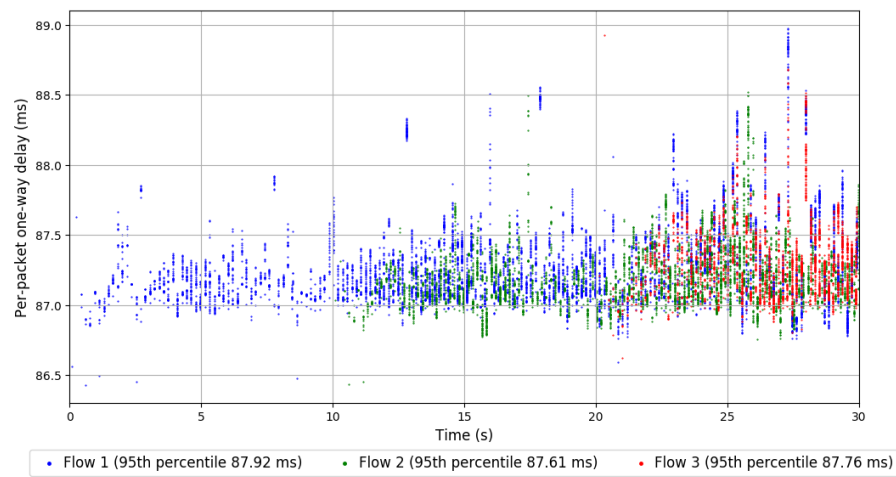
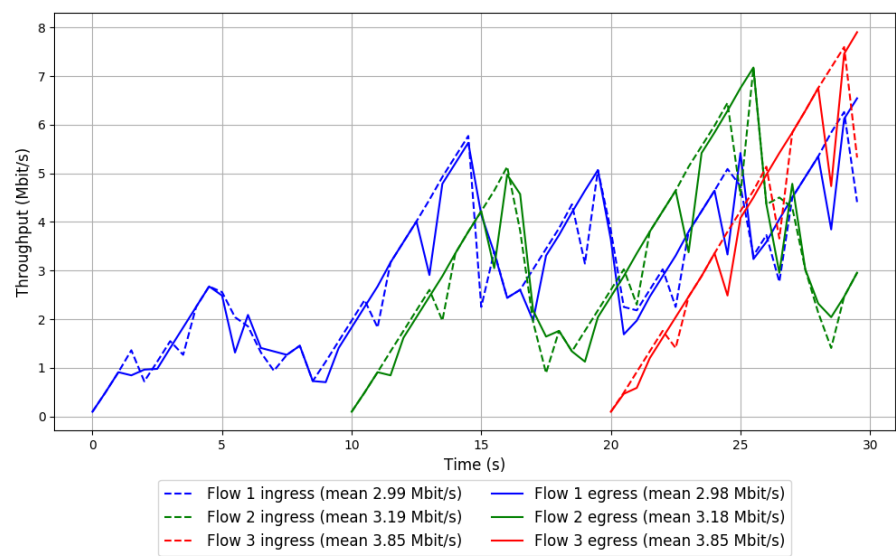
-- Flow 3:

Average throughput: 3.85 Mbit/s

95th percentile per-packet one-way delay: 87.762 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-16 20:57:28

End at: 2017-11-16 20:57:58

Below is generated by plot.py at 2017-11-16 22:45:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.14 Mbit/s

95th percentile per-packet one-way delay: 87.881 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 3.04 Mbit/s

95th percentile per-packet one-way delay: 87.943 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 5.13 Mbit/s

95th percentile per-packet one-way delay: 87.897 ms

Loss rate: 0.01%

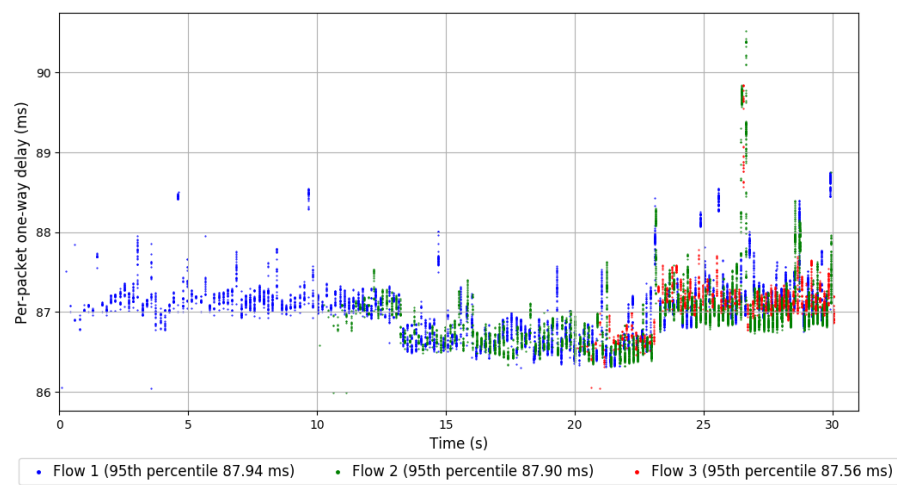
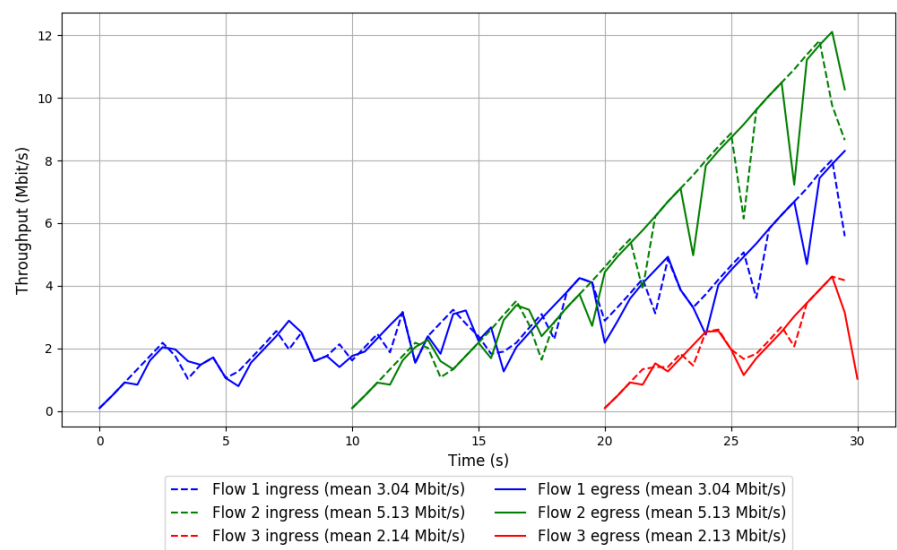
-- Flow 3:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 87.561 ms

Loss rate: 0.11%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-16 21:10:29

End at: 2017-11-16 21:10:59

Below is generated by plot.py at 2017-11-16 22:45:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.68 Mbit/s

95th percentile per-packet one-way delay: 87.922 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 88.024 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 87.620 ms

Loss rate: 0.89%

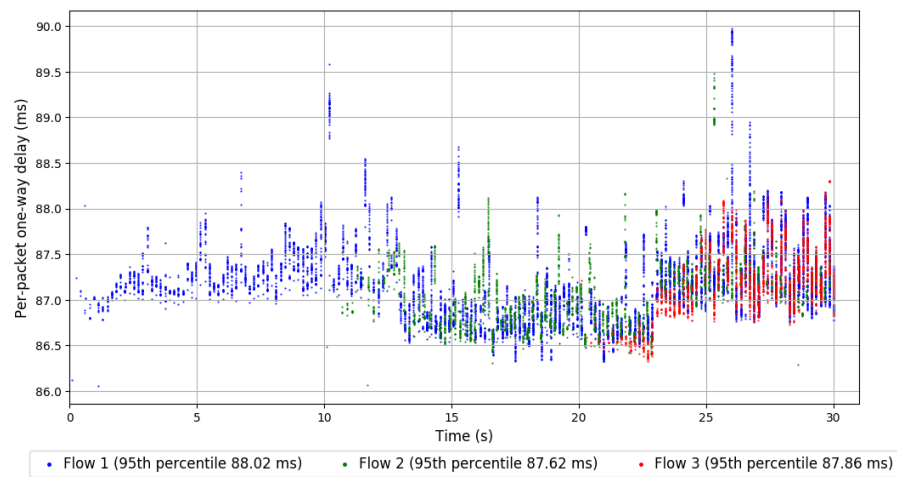
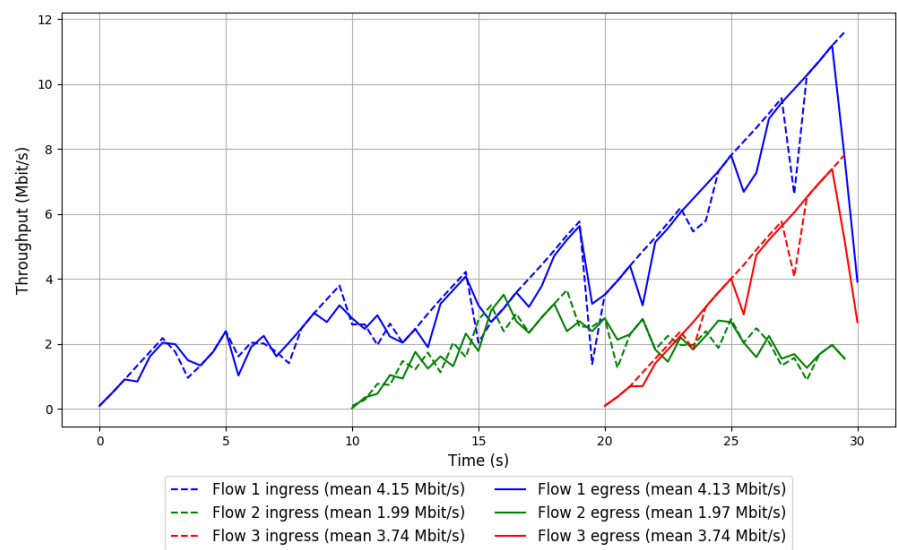
-- Flow 3:

Average throughput: 3.74 Mbit/s

95th percentile per-packet one-way delay: 87.857 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link

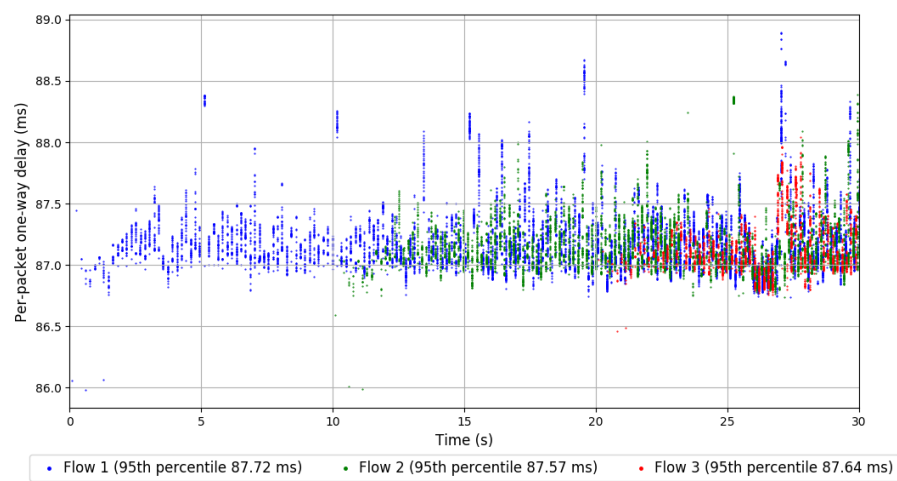
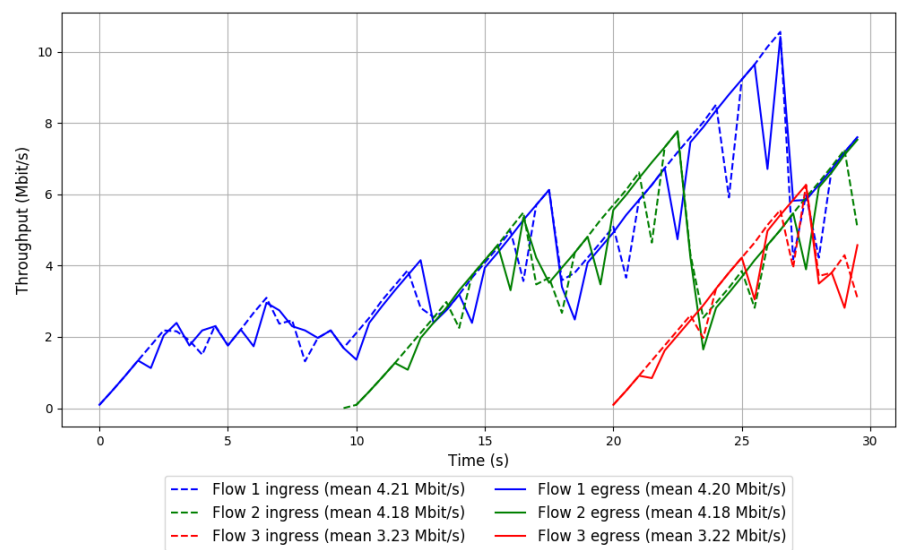


```
Run 10: Statistics of LEDBAT

Start at: 2017-11-16 21:23:25
End at: 2017-11-16 21:23:55

# Below is generated by plot.py at 2017-11-16 22:45:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.03 Mbit/s
95th percentile per-packet one-way delay: 87.654 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 87.716 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 4.18 Mbit/s
95th percentile per-packet one-way delay: 87.573 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 3.22 Mbit/s
95th percentile per-packet one-way delay: 87.643 ms
Loss rate: 0.33%
```

Run 10: Report of LEDBAT — Data Link

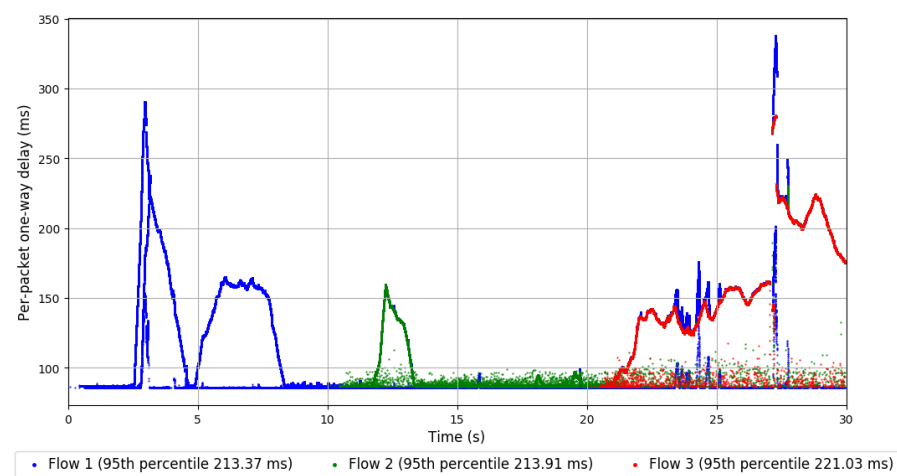
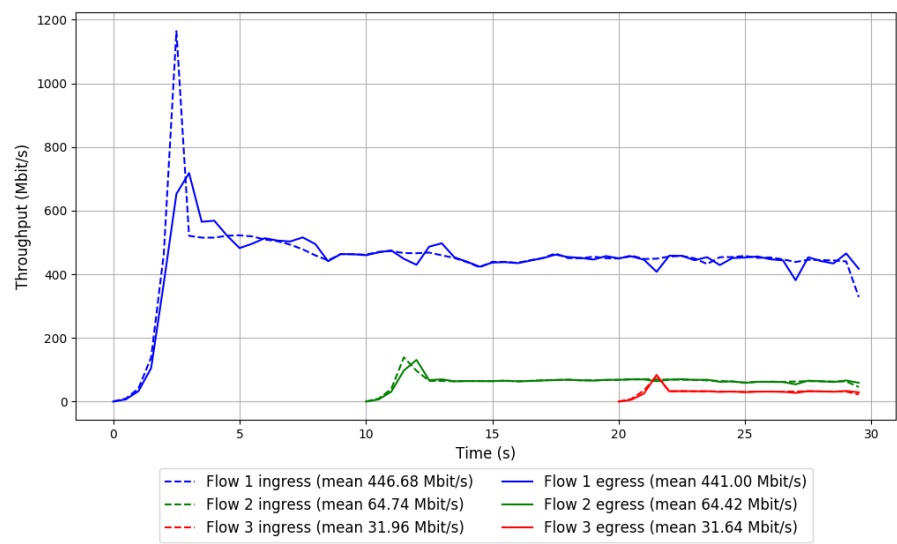


```
Run 1: Statistics of PCC

Start at: 2017-11-16 19:25:45
End at: 2017-11-16 19:26:15

# Below is generated by plot.py at 2017-11-16 22:52:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 494.22 Mbit/s
95th percentile per-packet one-way delay: 214.219 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 441.00 Mbit/s
95th percentile per-packet one-way delay: 213.369 ms
Loss rate: 1.26%
-- Flow 2:
Average throughput: 64.42 Mbit/s
95th percentile per-packet one-way delay: 213.912 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 31.64 Mbit/s
95th percentile per-packet one-way delay: 221.034 ms
Loss rate: 1.02%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-11-16 19:38:39

End at: 2017-11-16 19:39:09

Below is generated by plot.py at 2017-11-16 22:52:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 487.06 Mbit/s

95th percentile per-packet one-way delay: 227.053 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 461.60 Mbit/s

95th percentile per-packet one-way delay: 227.531 ms

Loss rate: 1.33%

-- Flow 2:

Average throughput: 29.93 Mbit/s

95th percentile per-packet one-way delay: 219.316 ms

Loss rate: 0.33%

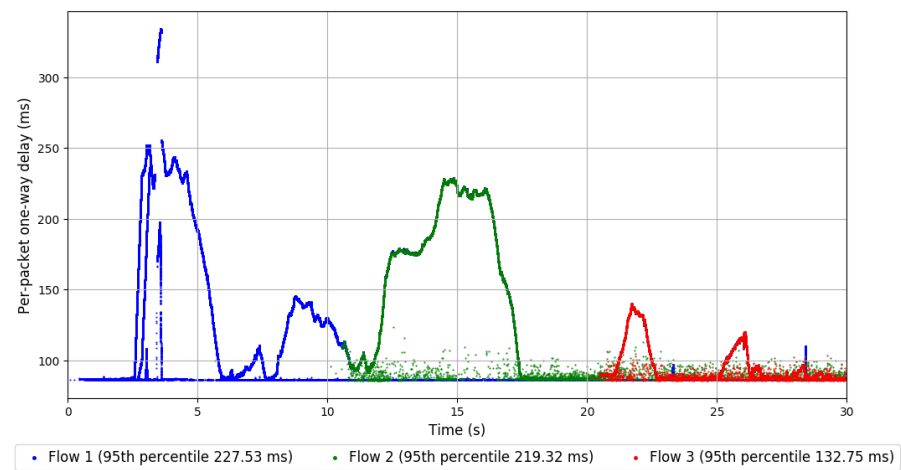
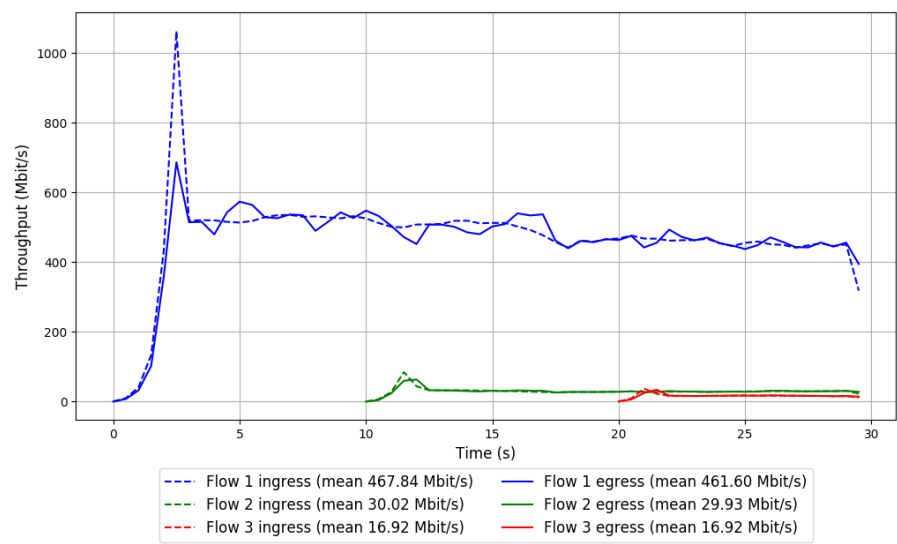
-- Flow 3:

Average throughput: 16.92 Mbit/s

95th percentile per-packet one-way delay: 132.745 ms

Loss rate: 0.01%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-11-16 19:51:34

End at: 2017-11-16 19:52:04

Below is generated by plot.py at 2017-11-16 22:52:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 489.97 Mbit/s

95th percentile per-packet one-way delay: 219.729 ms

Loss rate: 1.72%

-- Flow 1:

Average throughput: 466.76 Mbit/s

95th percentile per-packet one-way delay: 219.544 ms

Loss rate: 1.73%

-- Flow 2:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 217.659 ms

Loss rate: 0.74%

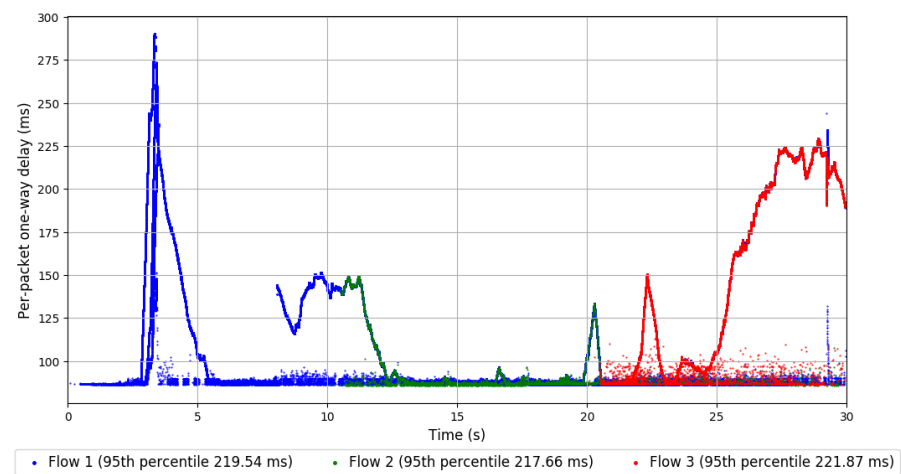
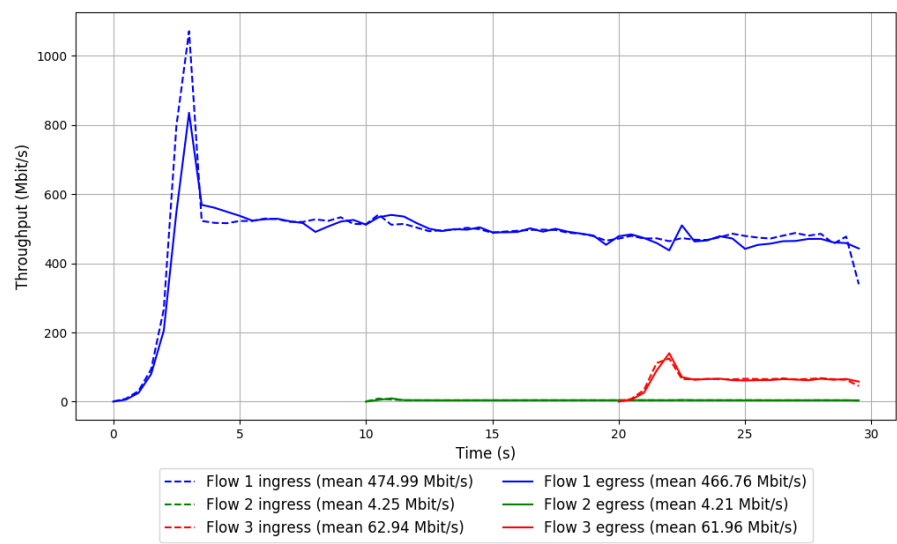
-- Flow 3:

Average throughput: 61.96 Mbit/s

95th percentile per-packet one-way delay: 221.870 ms

Loss rate: 1.55%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-11-16 20:04:22

End at: 2017-11-16 20:04:52

Below is generated by plot.py at 2017-11-16 22:52:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 470.42 Mbit/s

95th percentile per-packet one-way delay: 207.142 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 465.97 Mbit/s

95th percentile per-packet one-way delay: 207.236 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 4.55 Mbit/s

95th percentile per-packet one-way delay: 181.012 ms

Loss rate: 0.00%

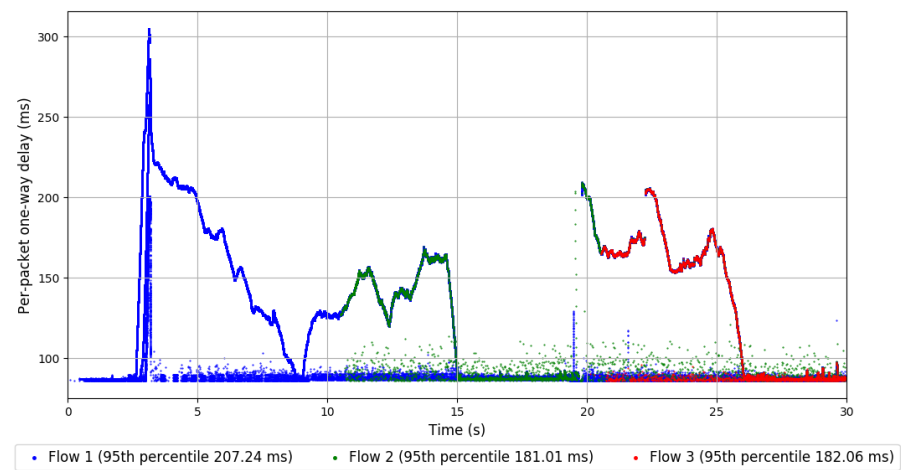
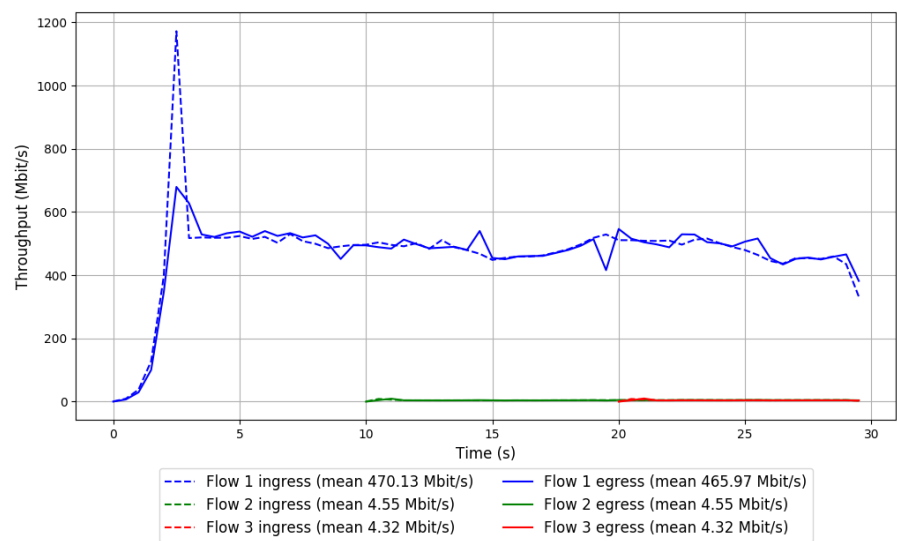
-- Flow 3:

Average throughput: 4.32 Mbit/s

95th percentile per-packet one-way delay: 182.064 ms

Loss rate: 0.00%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-11-16 20:17:13

End at: 2017-11-16 20:17:43

Below is generated by plot.py at 2017-11-16 22:52:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 439.83 Mbit/s

95th percentile per-packet one-way delay: 159.937 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 434.86 Mbit/s

95th percentile per-packet one-way delay: 159.930 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 5.36 Mbit/s

95th percentile per-packet one-way delay: 159.368 ms

Loss rate: 0.42%

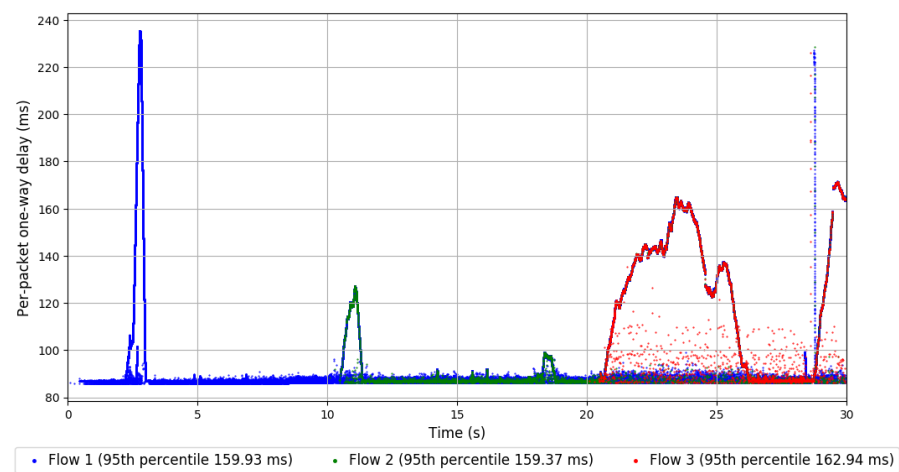
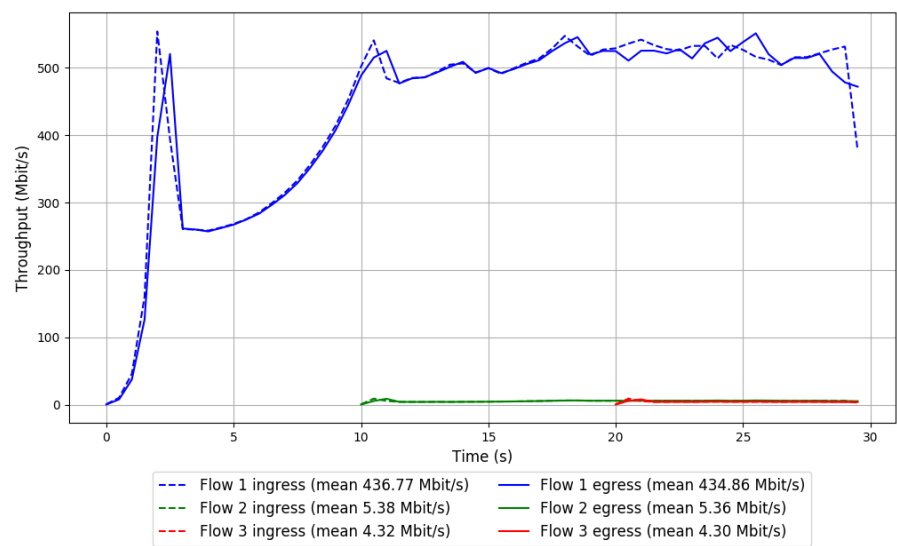
-- Flow 3:

Average throughput: 4.30 Mbit/s

95th percentile per-packet one-way delay: 162.939 ms

Loss rate: 0.76%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-11-16 20:29:48

End at: 2017-11-16 20:30:18

Below is generated by plot.py at 2017-11-16 22:52:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 463.16 Mbit/s

95th percentile per-packet one-way delay: 218.285 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 450.87 Mbit/s

95th percentile per-packet one-way delay: 218.386 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 203.369 ms

Loss rate: 0.19%

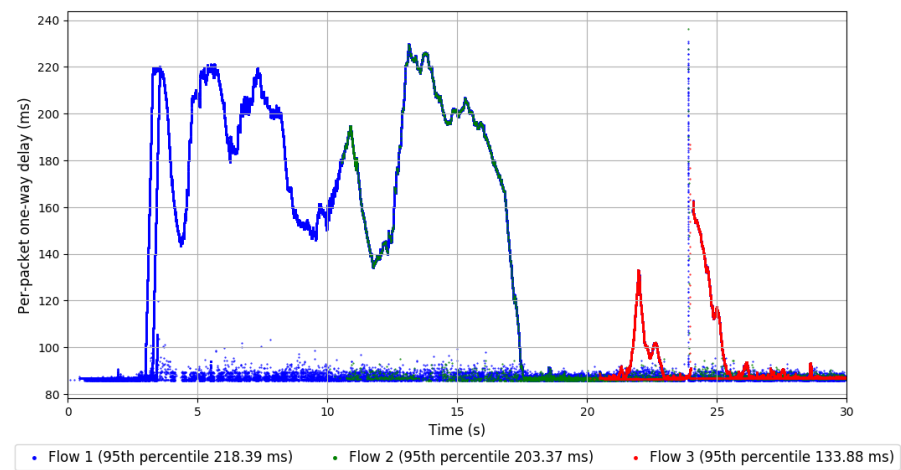
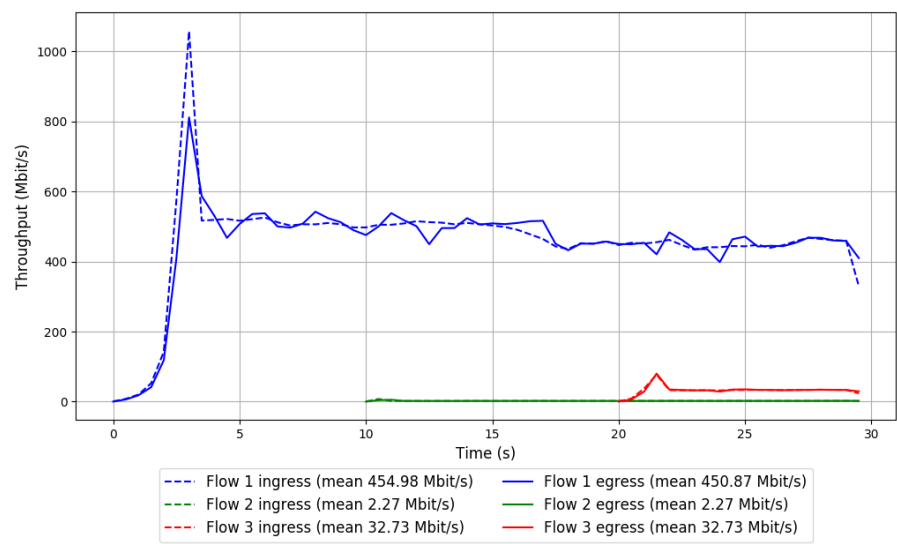
-- Flow 3:

Average throughput: 32.73 Mbit/s

95th percentile per-packet one-way delay: 133.884 ms

Loss rate: 0.01%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-16 20:42:31

End at: 2017-11-16 20:43:01

Below is generated by plot.py at 2017-11-16 22:53:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 479.15 Mbit/s

95th percentile per-packet one-way delay: 238.909 ms

Loss rate: 3.32%

-- Flow 1:

Average throughput: 438.47 Mbit/s

95th percentile per-packet one-way delay: 239.110 ms

Loss rate: 3.06%

-- Flow 2:

Average throughput: 4.05 Mbit/s

95th percentile per-packet one-way delay: 238.184 ms

Loss rate: 3.21%

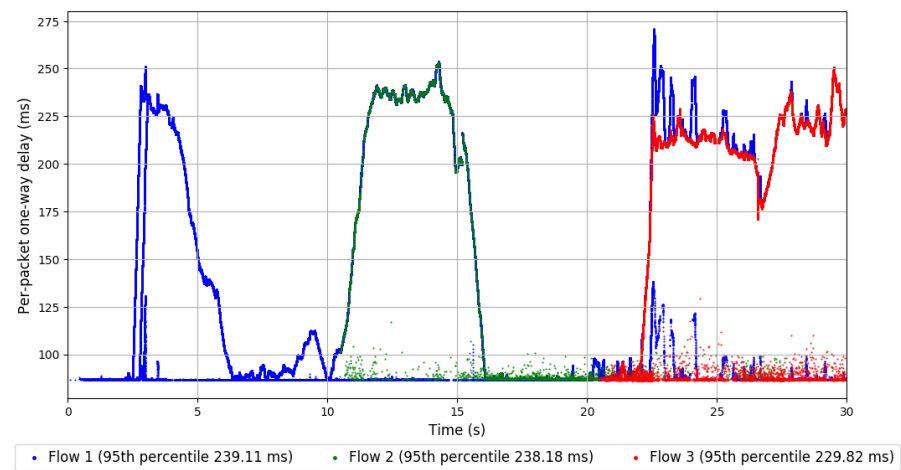
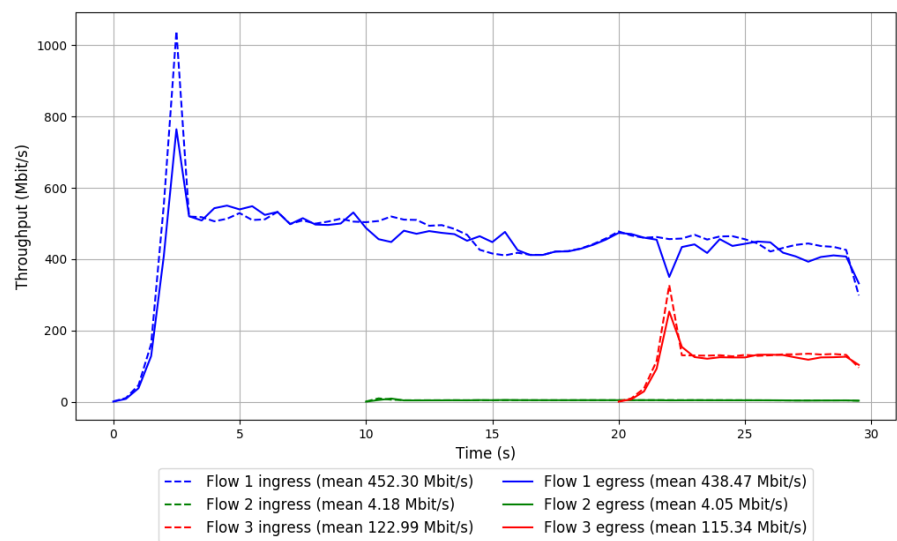
-- Flow 3:

Average throughput: 115.34 Mbit/s

95th percentile per-packet one-way delay: 229.816 ms

Loss rate: 6.22%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-11-16 20:55:22

End at: 2017-11-16 20:55:52

Below is generated by plot.py at 2017-11-16 22:53:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 380.98 Mbit/s

95th percentile per-packet one-way delay: 222.542 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 228.23 Mbit/s

95th percentile per-packet one-way delay: 221.705 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 228.62 Mbit/s

95th percentile per-packet one-way delay: 223.529 ms

Loss rate: 1.65%

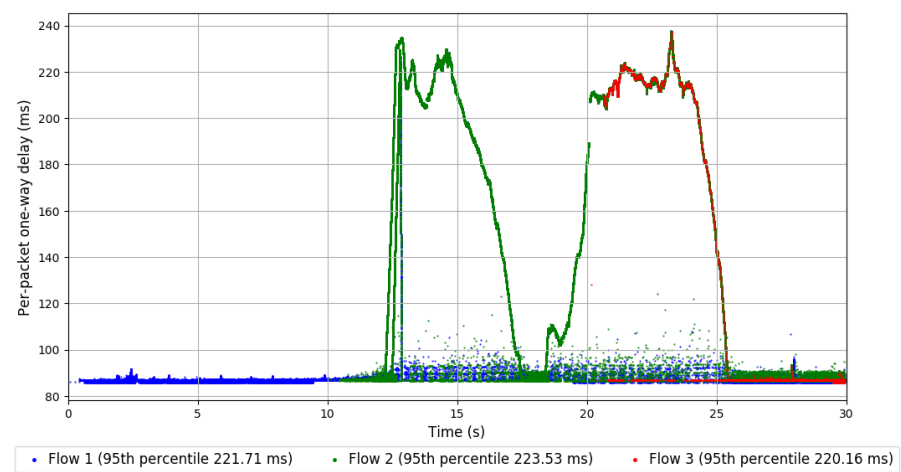
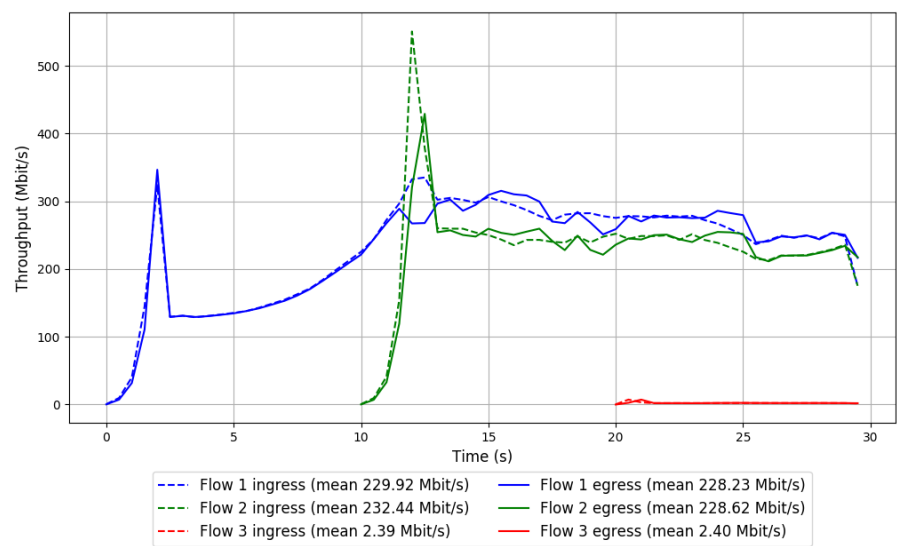
-- Flow 3:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 220.158 ms

Loss rate: 0.20%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-11-16 21:08:11

End at: 2017-11-16 21:08:41

Below is generated by plot.py at 2017-11-16 23:00:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 511.83 Mbit/s

95th percentile per-packet one-way delay: 209.828 ms

Loss rate: 1.79%

-- Flow 1:

Average throughput: 470.58 Mbit/s

95th percentile per-packet one-way delay: 209.735 ms

Loss rate: 1.85%

-- Flow 2:

Average throughput: 31.61 Mbit/s

95th percentile per-packet one-way delay: 201.237 ms

Loss rate: 0.65%

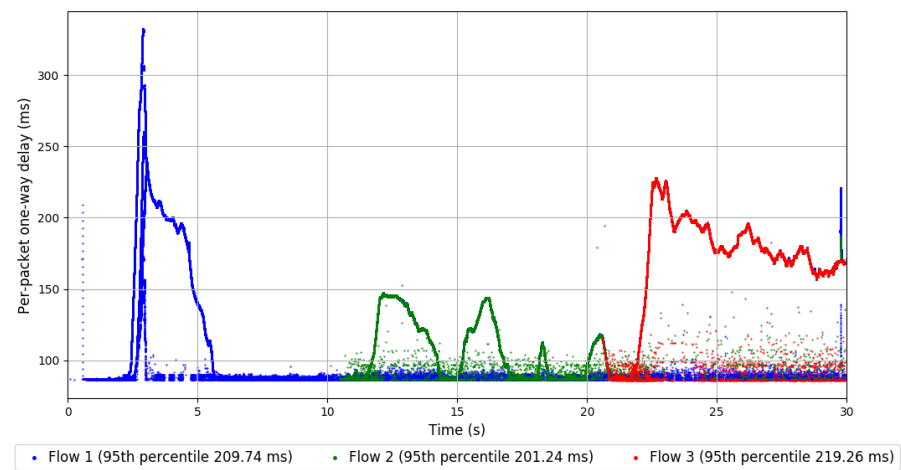
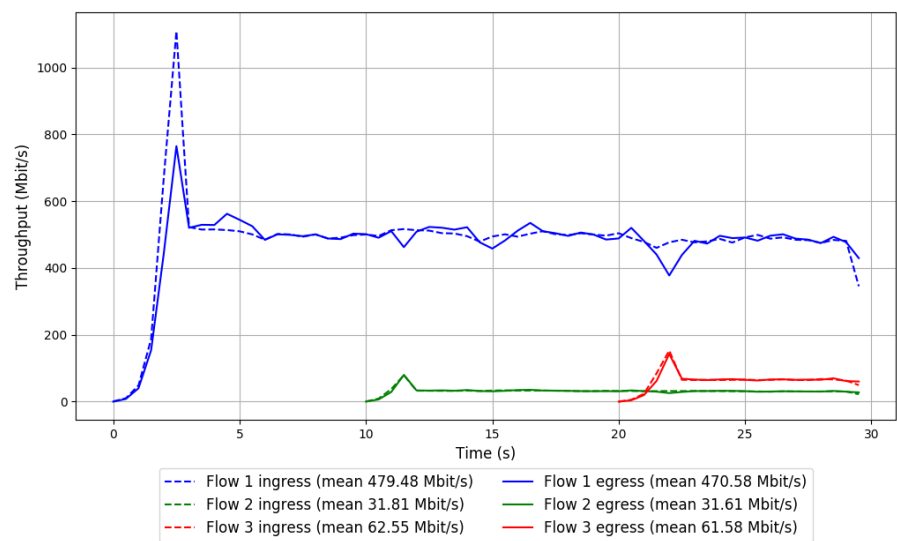
-- Flow 3:

Average throughput: 61.58 Mbit/s

95th percentile per-packet one-way delay: 219.259 ms

Loss rate: 1.56%

Run 9: Report of PCC — Data Link

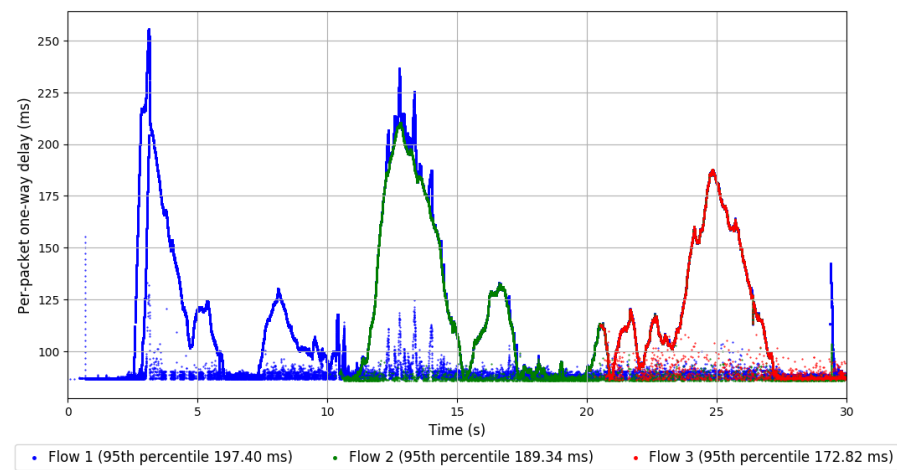
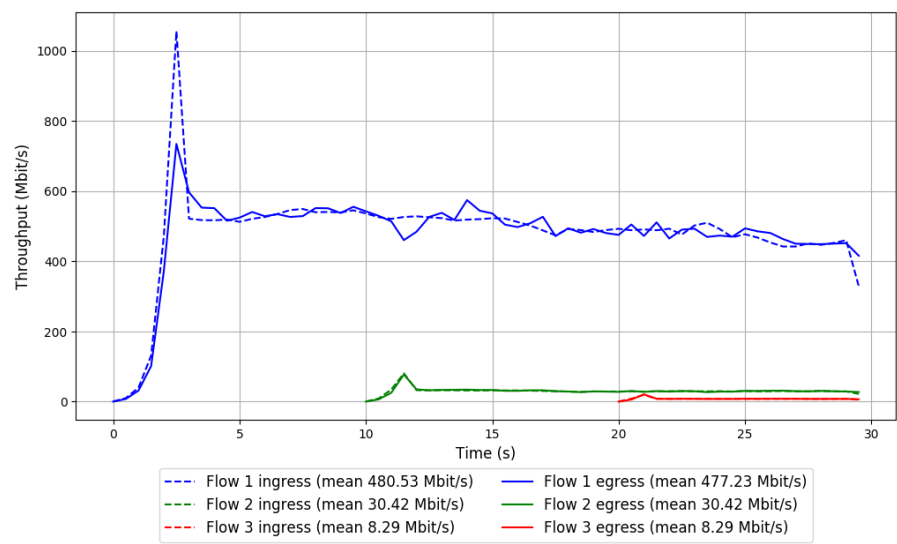


```
Run 10: Statistics of PCC

Start at: 2017-11-16 21:21:11
End at: 2017-11-16 21:21:41

# Below is generated by plot.py at 2017-11-16 23:00:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 500.18 Mbit/s
95th percentile per-packet one-way delay: 197.099 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 477.23 Mbit/s
95th percentile per-packet one-way delay: 197.403 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 30.42 Mbit/s
95th percentile per-packet one-way delay: 189.337 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 8.29 Mbit/s
95th percentile per-packet one-way delay: 172.822 ms
Loss rate: 0.01%
```

Run 10: Report of PCC — Data Link

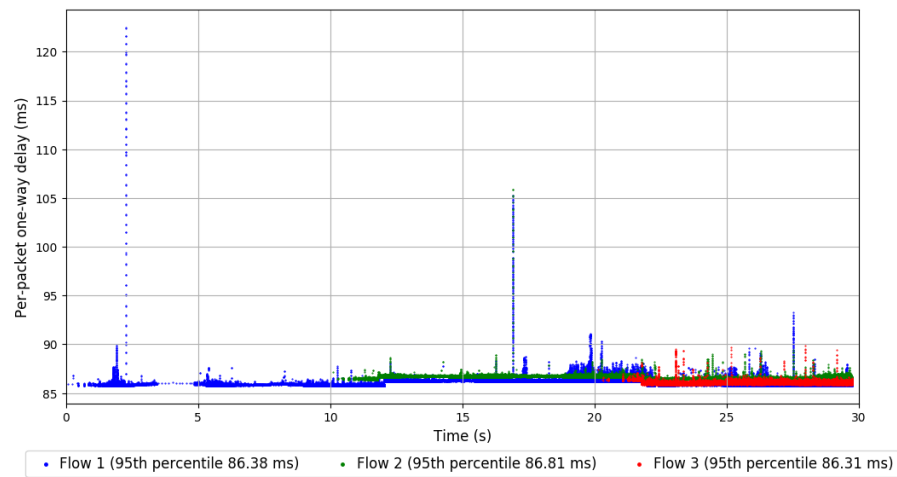
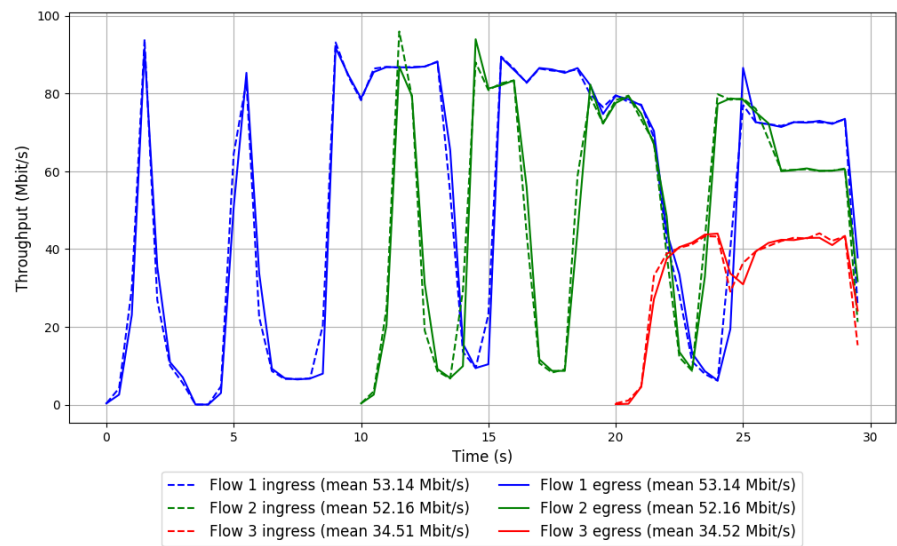


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-11-16 19:22:09
End at: 2017-11-16 19:22:39

# Below is generated by plot.py at 2017-11-16 23:00:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 98.88 Mbit/s
95th percentile per-packet one-way delay: 86.769 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 53.14 Mbit/s
95th percentile per-packet one-way delay: 86.380 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 52.16 Mbit/s
95th percentile per-packet one-way delay: 86.807 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 34.52 Mbit/s
95th percentile per-packet one-way delay: 86.305 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-11-16 19:35:03

End at: 2017-11-16 19:35:33

Below is generated by plot.py at 2017-11-16 23:00:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.39 Mbit/s

95th percentile per-packet one-way delay: 86.420 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.39 Mbit/s

95th percentile per-packet one-way delay: 86.410 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.76 Mbit/s

95th percentile per-packet one-way delay: 86.451 ms

Loss rate: 0.00%

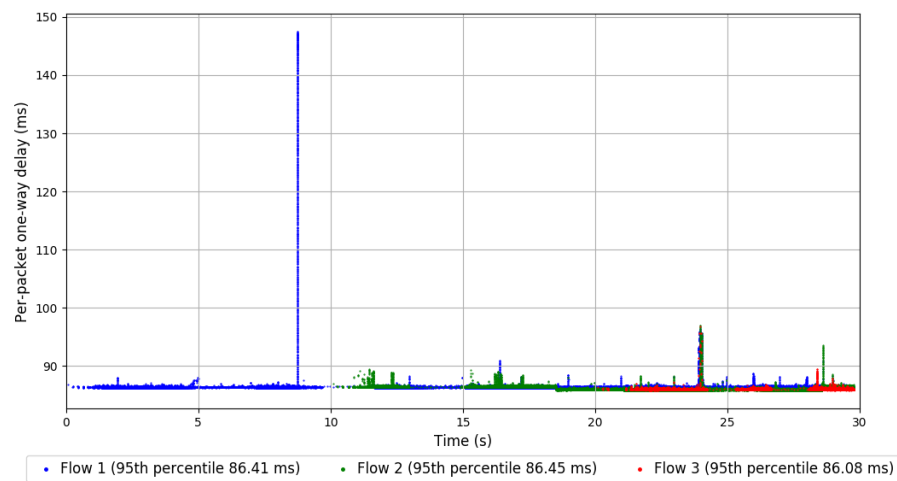
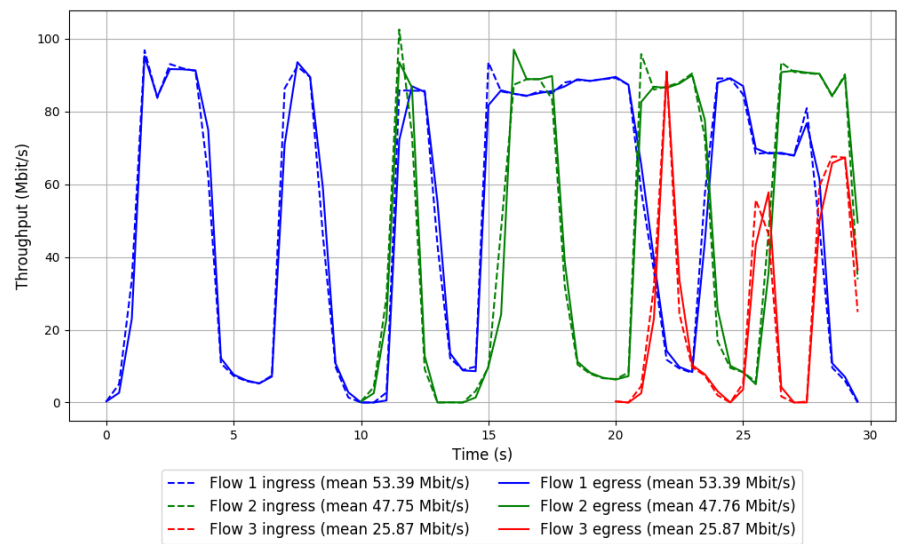
-- Flow 3:

Average throughput: 25.87 Mbit/s

95th percentile per-packet one-way delay: 86.076 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-16 19:48:00

End at: 2017-11-16 19:48:30

Below is generated by plot.py at 2017-11-16 23:00:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 103.68 Mbit/s

95th percentile per-packet one-way delay: 86.590 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.76 Mbit/s

95th percentile per-packet one-way delay: 86.604 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 64.21 Mbit/s

95th percentile per-packet one-way delay: 86.016 ms

Loss rate: 0.00%

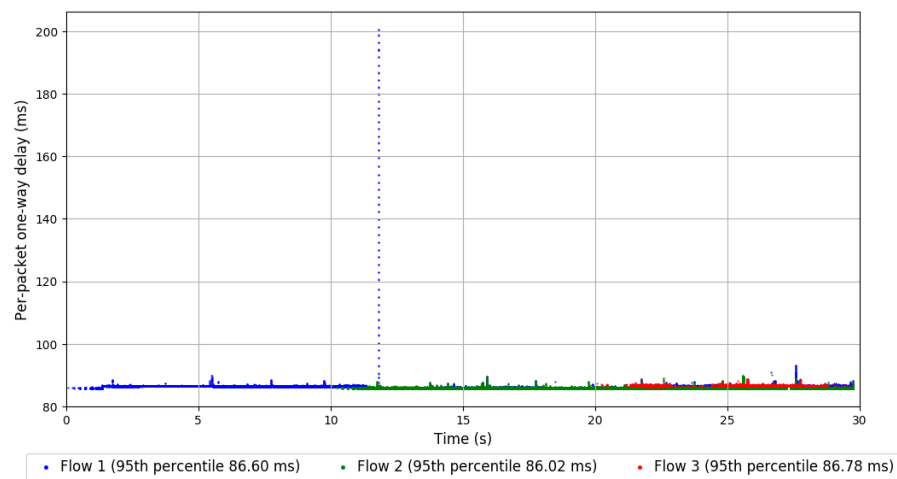
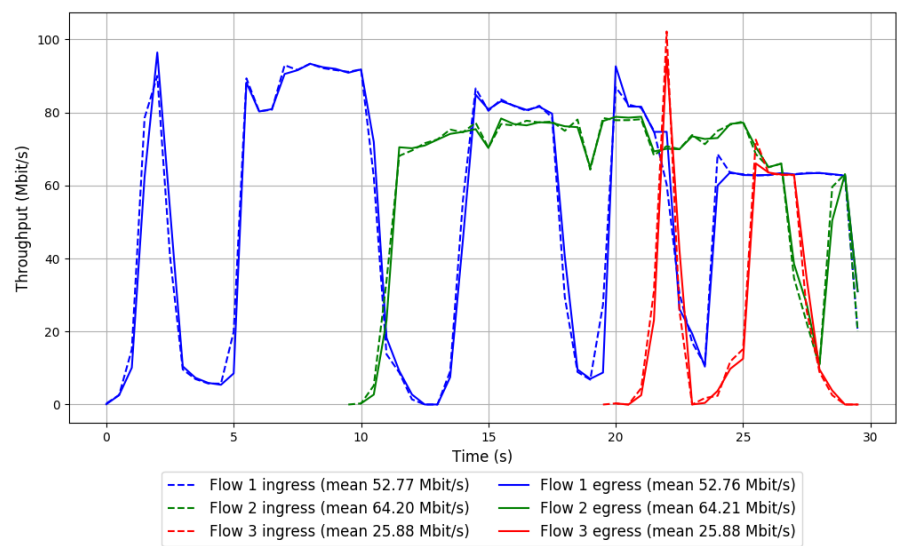
-- Flow 3:

Average throughput: 25.88 Mbit/s

95th percentile per-packet one-way delay: 86.784 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-16 20:00:54

End at: 2017-11-16 20:01:24

Below is generated by plot.py at 2017-11-16 23:00:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.53 Mbit/s

95th percentile per-packet one-way delay: 86.573 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 45.55 Mbit/s

95th percentile per-packet one-way delay: 86.592 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 31.98 Mbit/s

95th percentile per-packet one-way delay: 86.485 ms

Loss rate: 0.00%

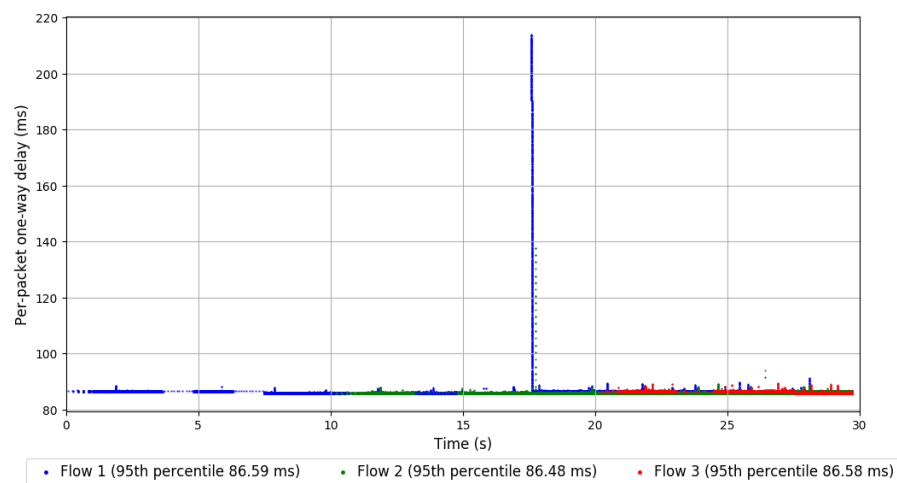
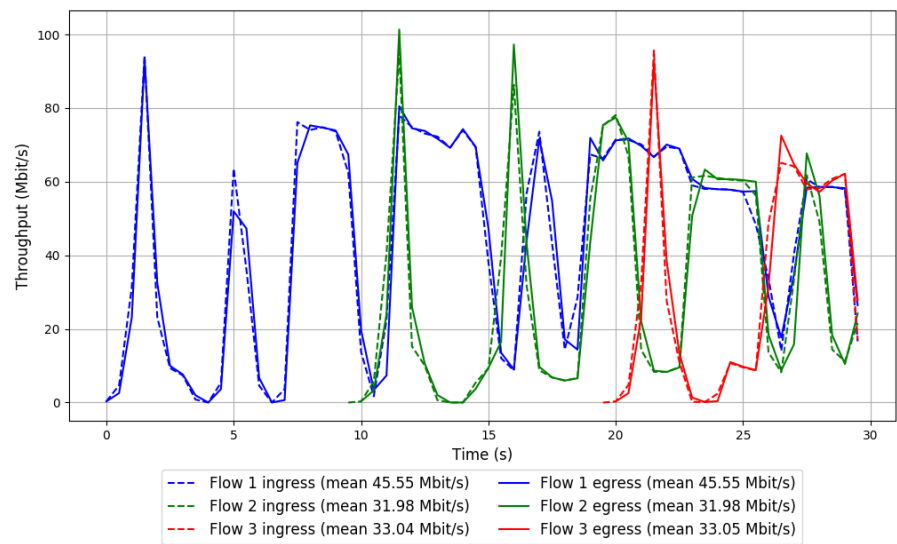
-- Flow 3:

Average throughput: 33.05 Mbit/s

95th percentile per-packet one-way delay: 86.577 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-16 20:13:36

End at: 2017-11-16 20:14:06

Below is generated by plot.py at 2017-11-16 23:00:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 103.71 Mbit/s

95th percentile per-packet one-way delay: 86.916 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 58.89 Mbit/s

95th percentile per-packet one-way delay: 86.976 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.51 Mbit/s

95th percentile per-packet one-way delay: 86.572 ms

Loss rate: 0.00%

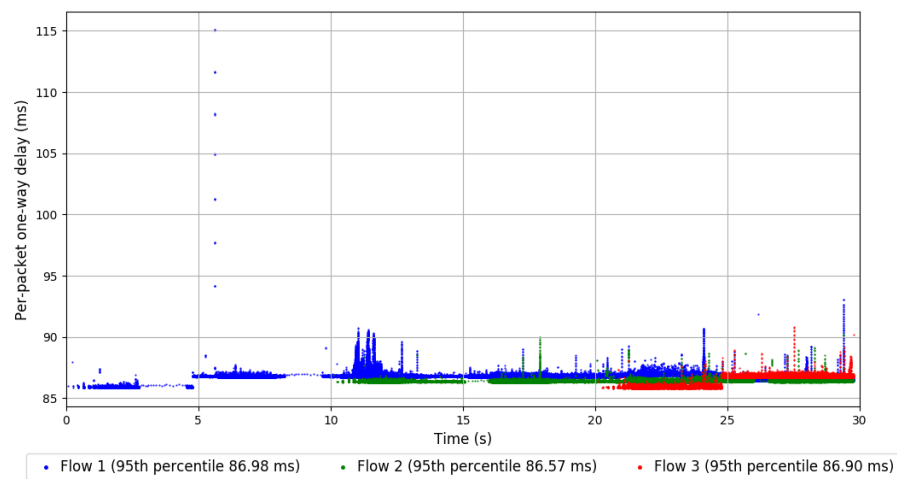
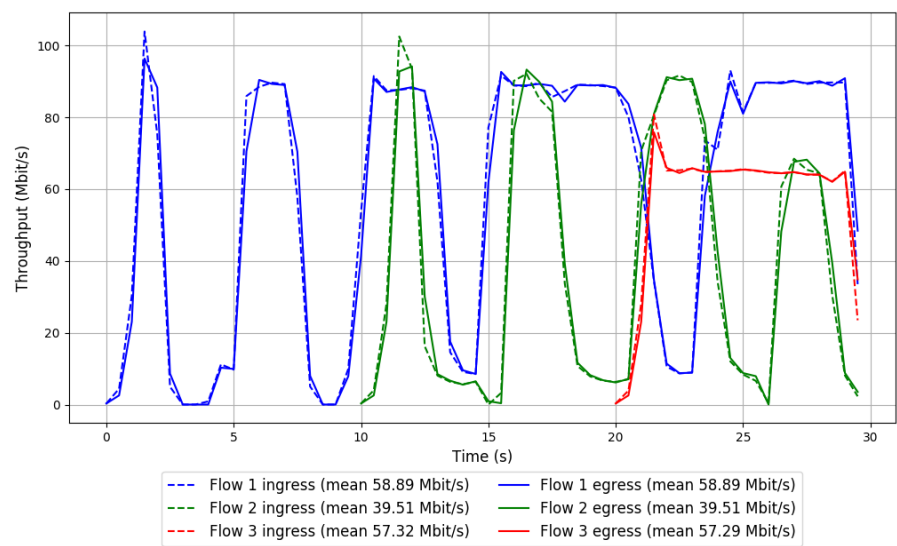
-- Flow 3:

Average throughput: 57.29 Mbit/s

95th percentile per-packet one-way delay: 86.901 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-16 20:26:28

End at: 2017-11-16 20:26:58

Below is generated by plot.py at 2017-11-16 23:00:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.40 Mbit/s

95th percentile per-packet one-way delay: 86.562 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 47.62 Mbit/s

95th percentile per-packet one-way delay: 86.517 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 42.83 Mbit/s

95th percentile per-packet one-way delay: 86.540 ms

Loss rate: 0.00%

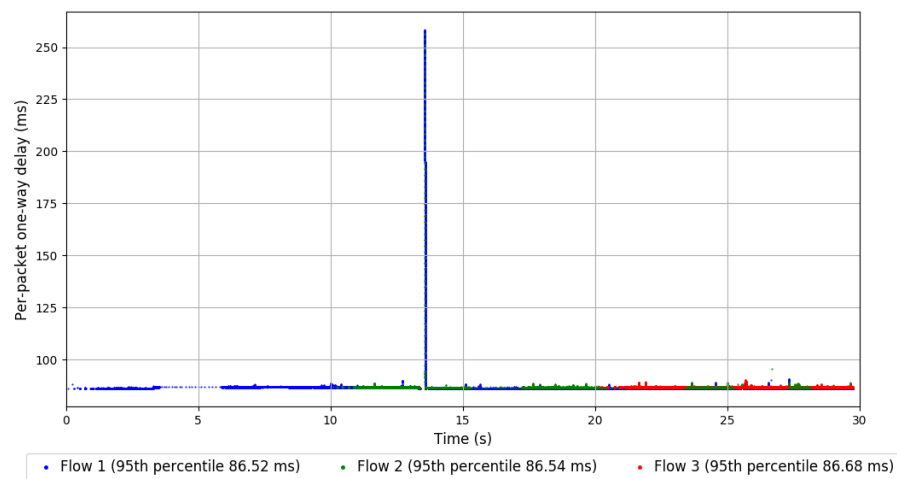
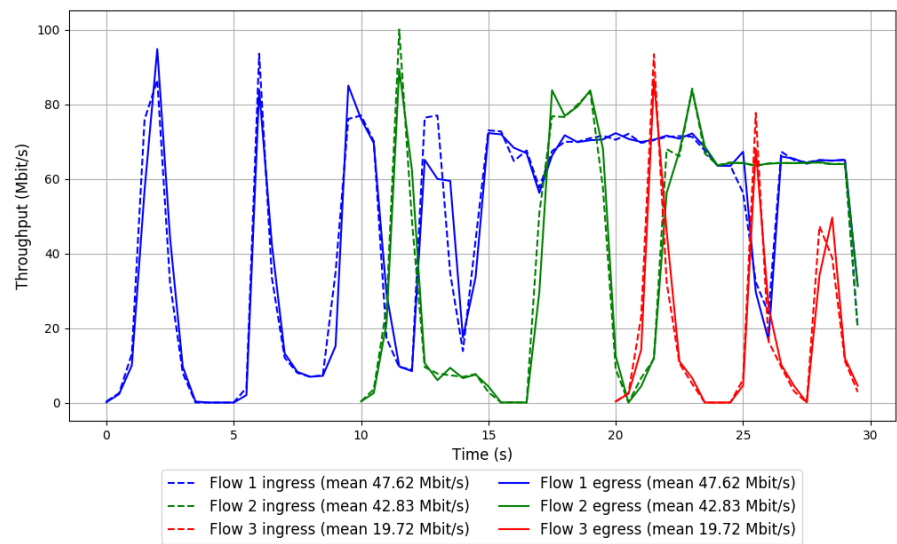
-- Flow 3:

Average throughput: 19.72 Mbit/s

95th percentile per-packet one-way delay: 86.681 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-16 20:38:56

End at: 2017-11-16 20:39:26

Below is generated by plot.py at 2017-11-16 23:00:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.18 Mbit/s

95th percentile per-packet one-way delay: 86.956 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.21 Mbit/s

95th percentile per-packet one-way delay: 86.987 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.07 Mbit/s

95th percentile per-packet one-way delay: 86.863 ms

Loss rate: 0.00%

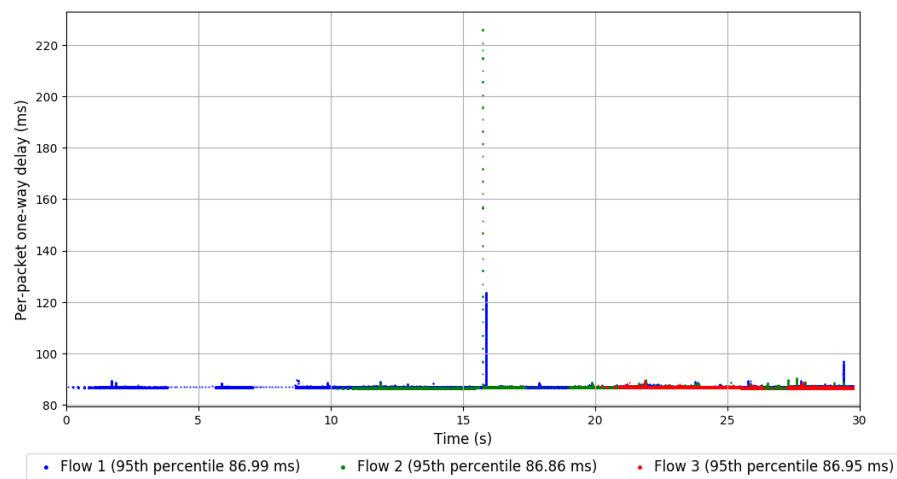
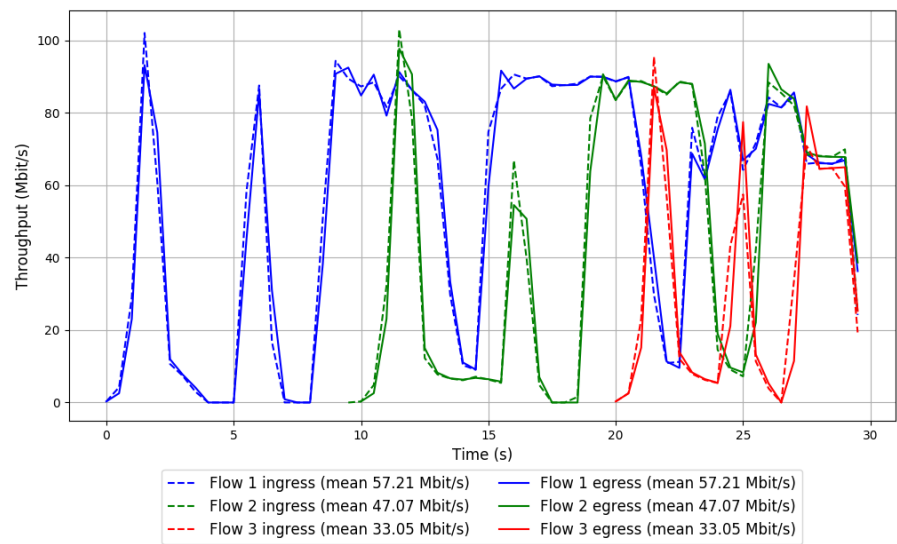
-- Flow 3:

Average throughput: 33.05 Mbit/s

95th percentile per-packet one-way delay: 86.950 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-16 20:51:47

End at: 2017-11-16 20:52:17

Below is generated by plot.py at 2017-11-16 23:00:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.03 Mbit/s

95th percentile per-packet one-way delay: 86.975 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.53 Mbit/s

95th percentile per-packet one-way delay: 86.568 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 42.15 Mbit/s

95th percentile per-packet one-way delay: 87.025 ms

Loss rate: 0.00%

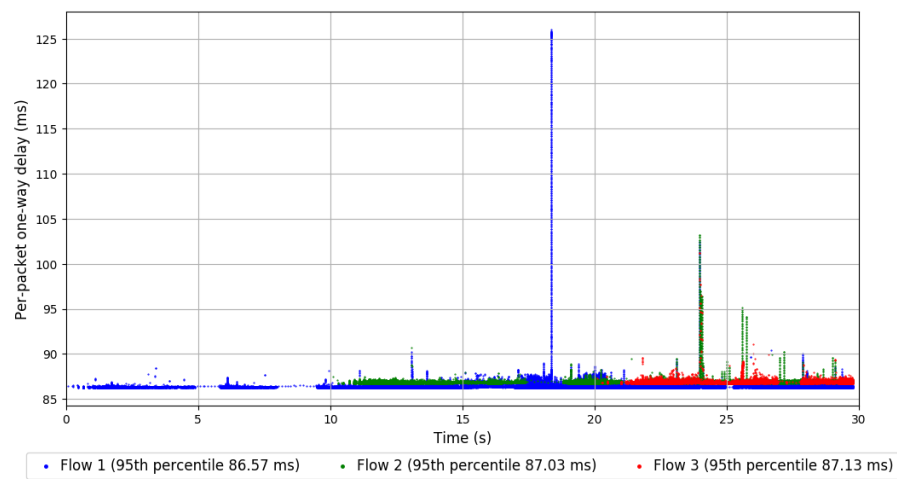
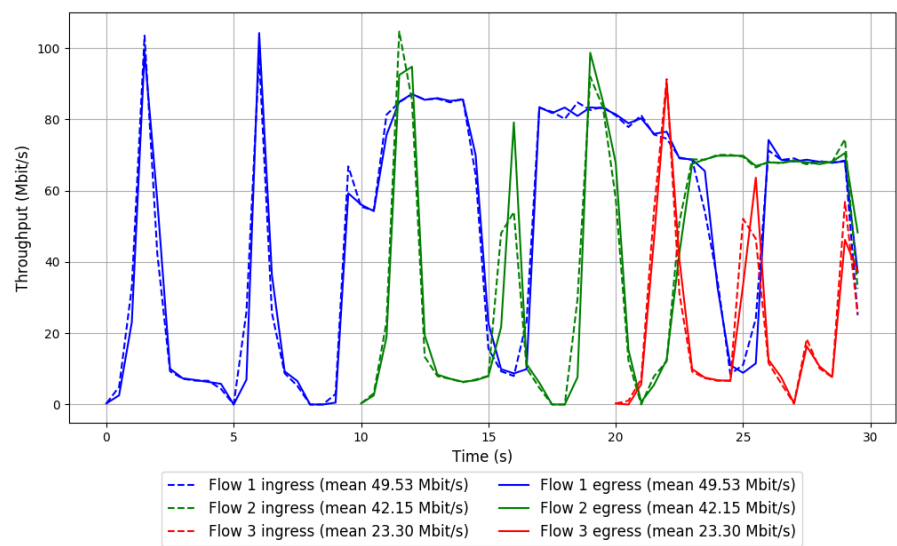
-- Flow 3:

Average throughput: 23.30 Mbit/s

95th percentile per-packet one-way delay: 87.127 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-16 21:04:36

End at: 2017-11-16 21:05:06

Below is generated by plot.py at 2017-11-16 23:00:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.51 Mbit/s

95th percentile per-packet one-way delay: 86.854 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 49.03 Mbit/s

95th percentile per-packet one-way delay: 86.919 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 34.44 Mbit/s

95th percentile per-packet one-way delay: 86.063 ms

Loss rate: 0.00%

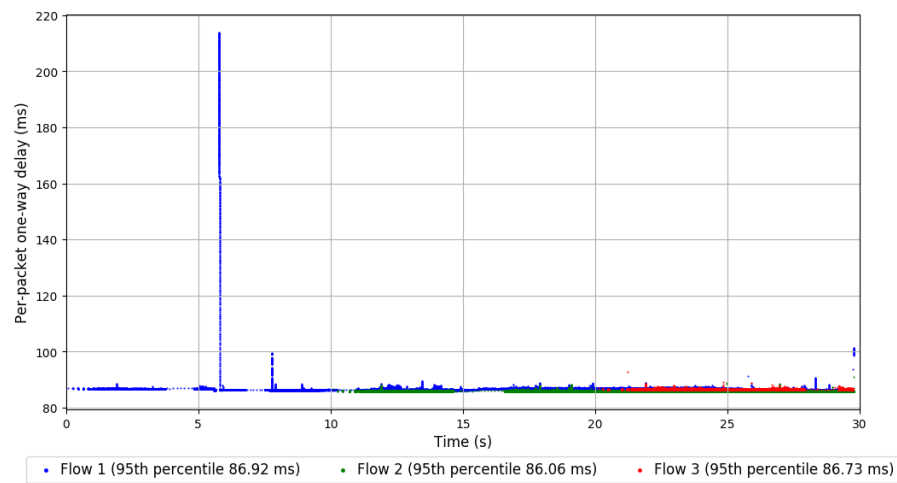
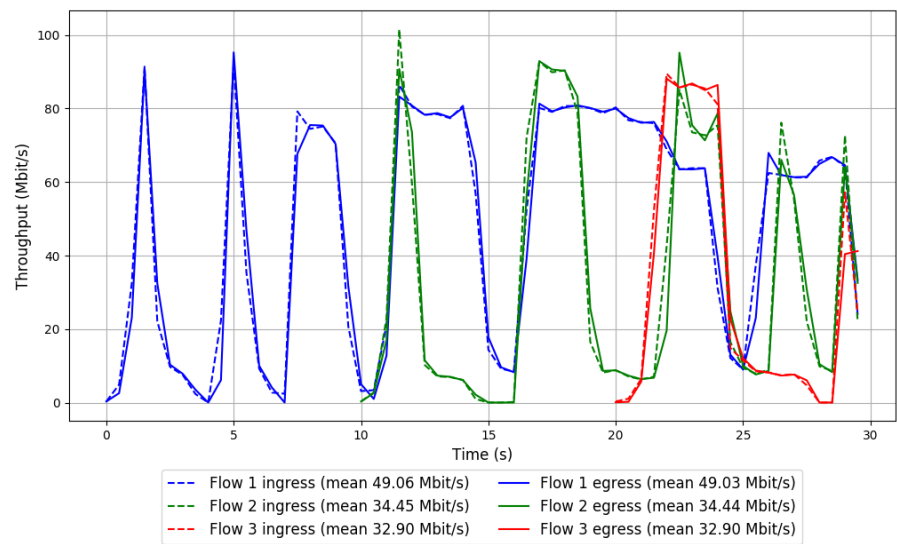
-- Flow 3:

Average throughput: 32.90 Mbit/s

95th percentile per-packet one-way delay: 86.733 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

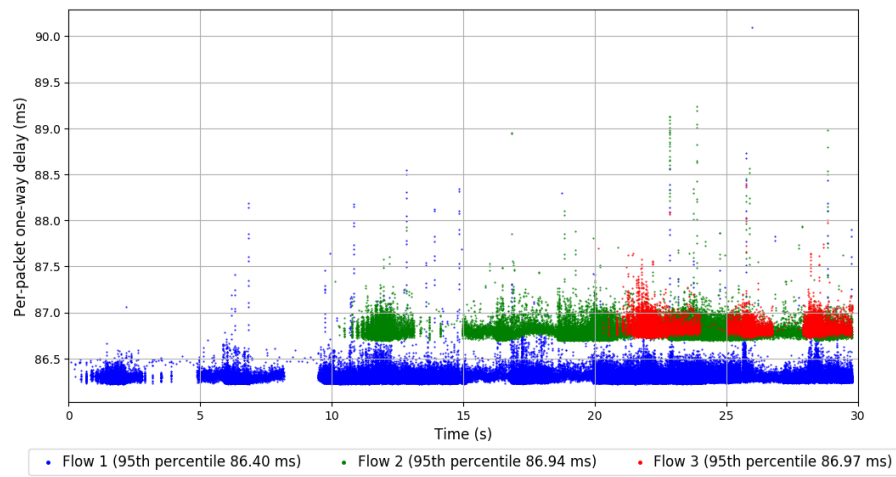
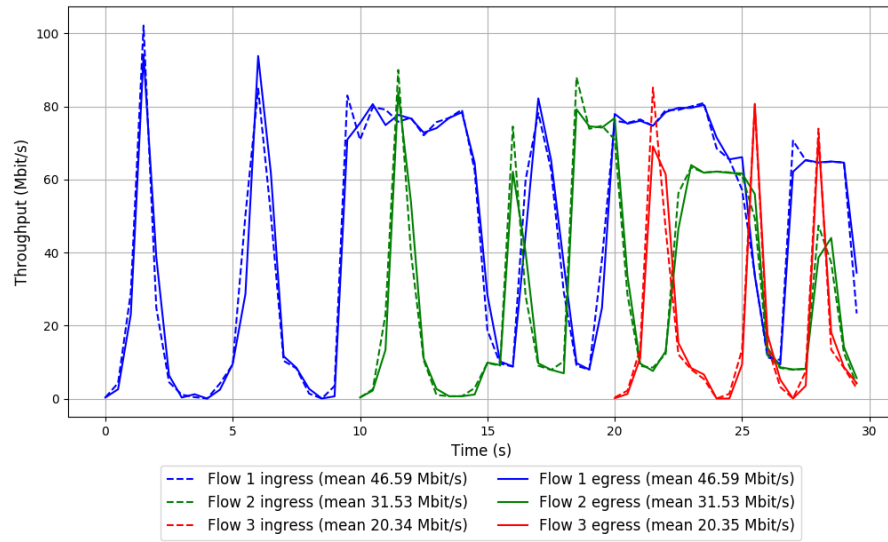


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-11-16 21:17:35
End at: 2017-11-16 21:18:05

# Below is generated by plot.py at 2017-11-16 23:00:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.06 Mbit/s
95th percentile per-packet one-way delay: 86.876 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 46.59 Mbit/s
95th percentile per-packet one-way delay: 86.403 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 31.53 Mbit/s
95th percentile per-packet one-way delay: 86.938 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.35 Mbit/s
95th percentile per-packet one-way delay: 86.974 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

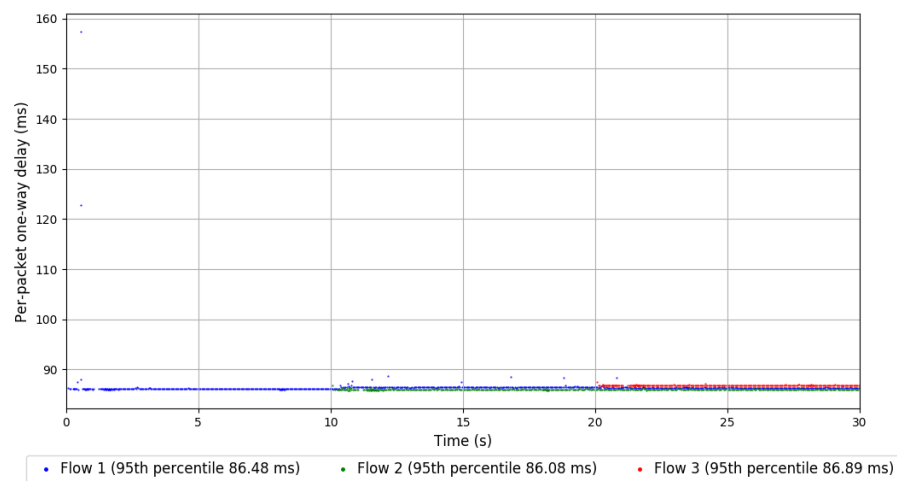
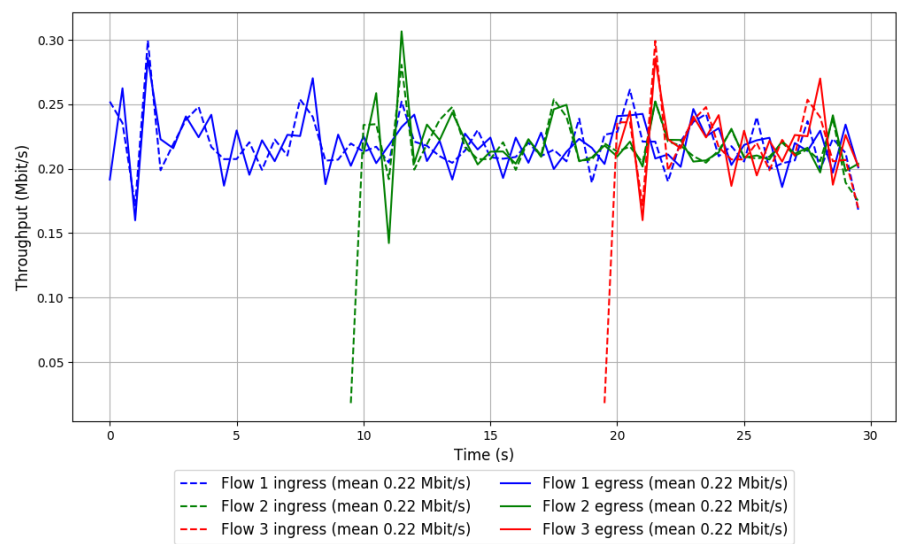


```
Run 1: Statistics of SCReAM

Start at: 2017-11-16 19:28:41
End at: 2017-11-16 19:29:11

# Below is generated by plot.py at 2017-11-16 23:00:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.854 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.481 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.077 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.889 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

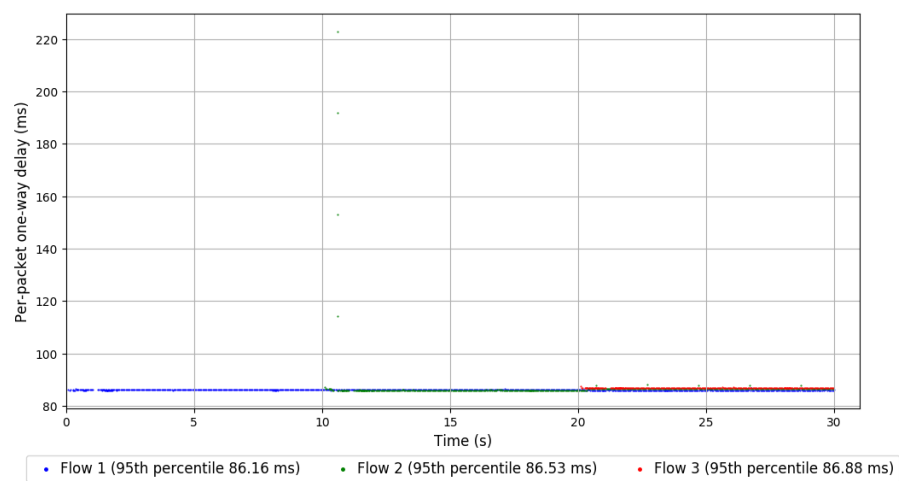
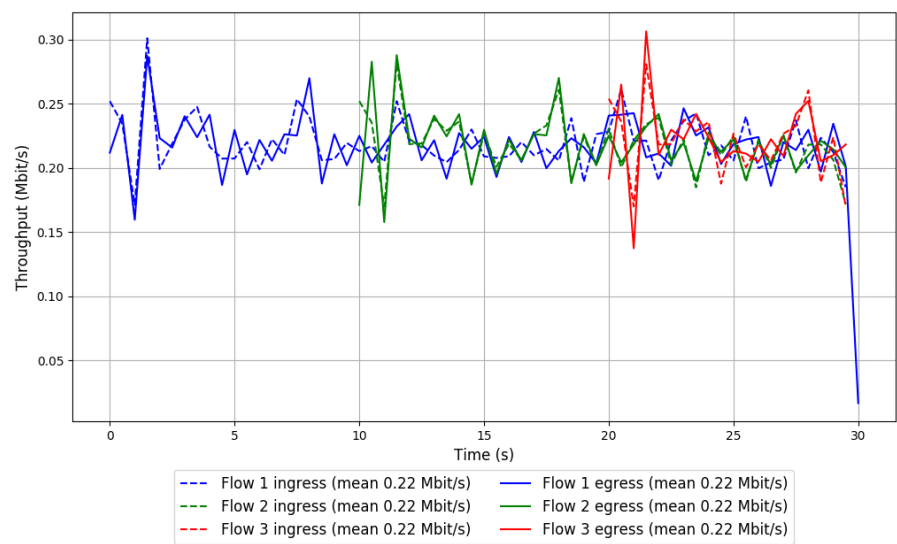


```
Run 2: Statistics of SCReAM

Start at: 2017-11-16 19:41:31
End at: 2017-11-16 19:42:01

# Below is generated by plot.py at 2017-11-16 23:00:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.851 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.163 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.526 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.883 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2017-11-16 19:54:31

End at: 2017-11-16 19:55:01

Below is generated by plot.py at 2017-11-16 23:00:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 87.049 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.195 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.712 ms

Loss rate: 0.00%

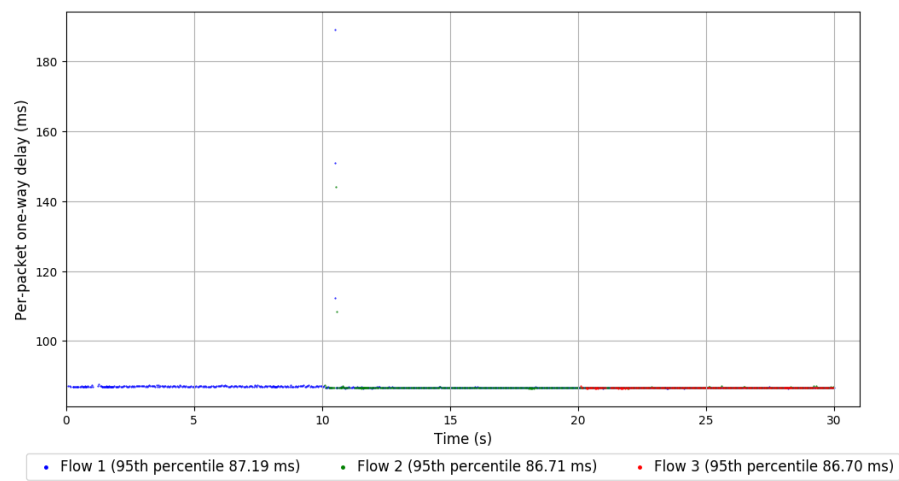
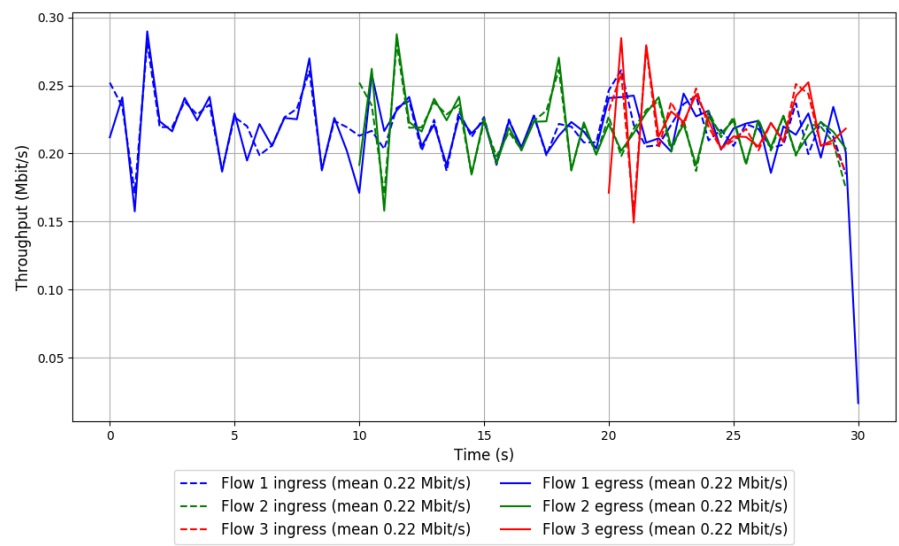
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.704 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

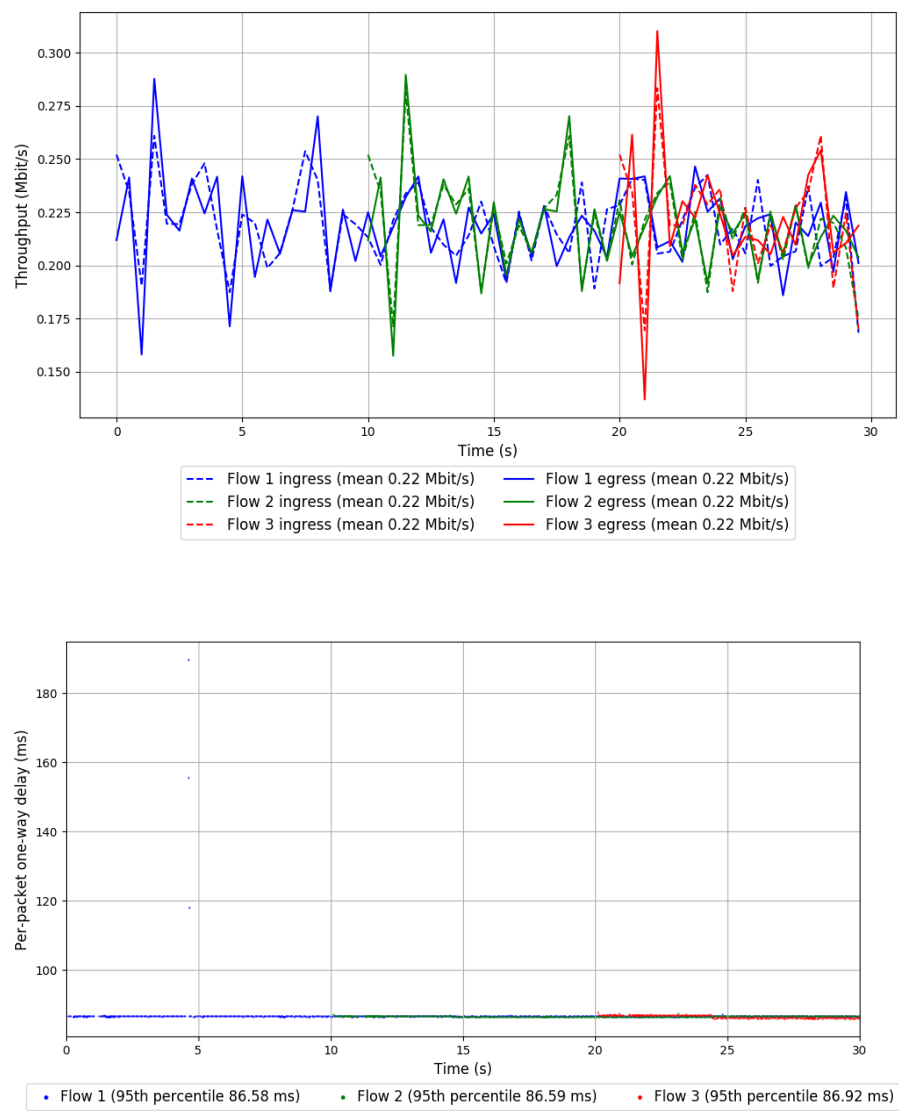


```
Run 4: Statistics of SCReAM

Start at: 2017-11-16 20:07:07
End at: 2017-11-16 20:07:37

# Below is generated by plot.py at 2017-11-16 23:00:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.858 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.581 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.589 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.915 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2017-11-16 20:20:06

End at: 2017-11-16 20:20:36

Below is generated by plot.py at 2017-11-16 23:00:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.994 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.585 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.018 ms

Loss rate: 0.00%

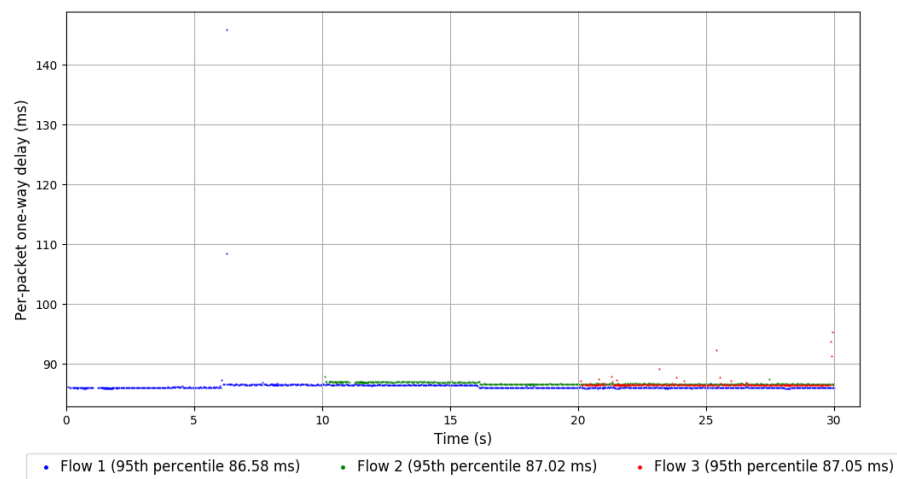
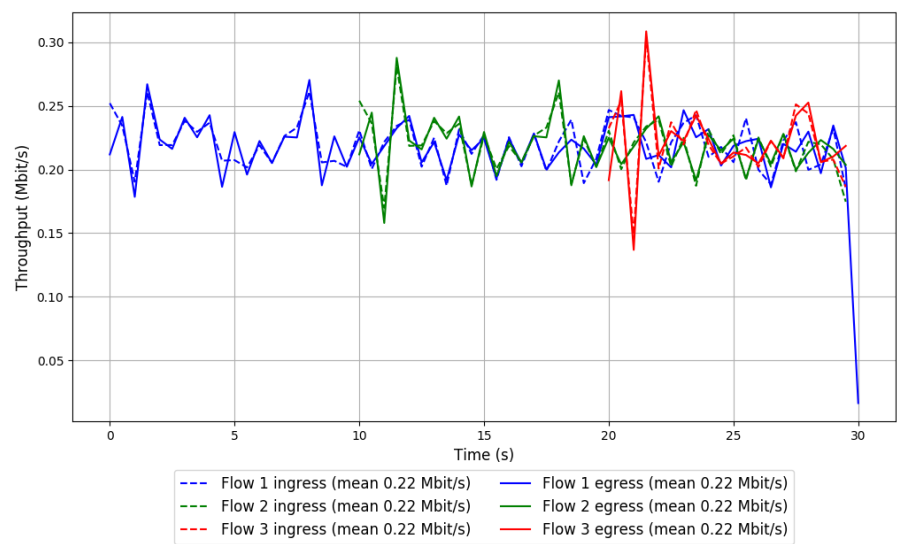
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.052 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

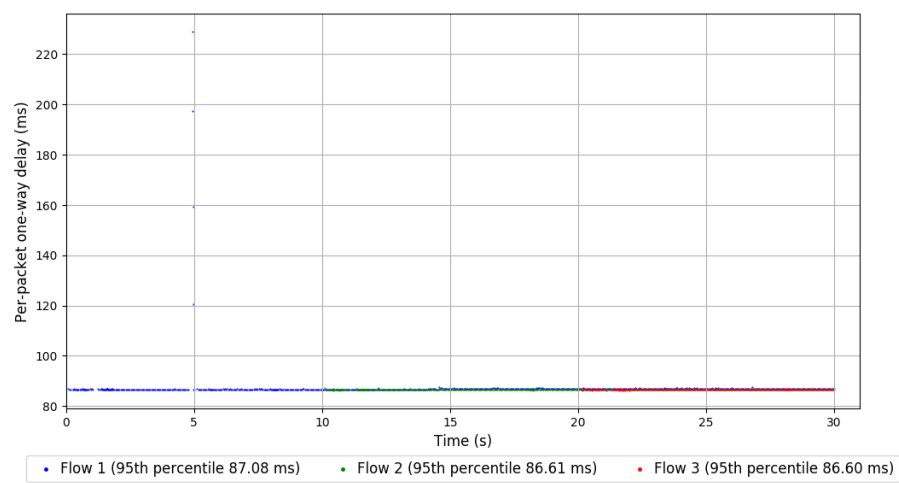
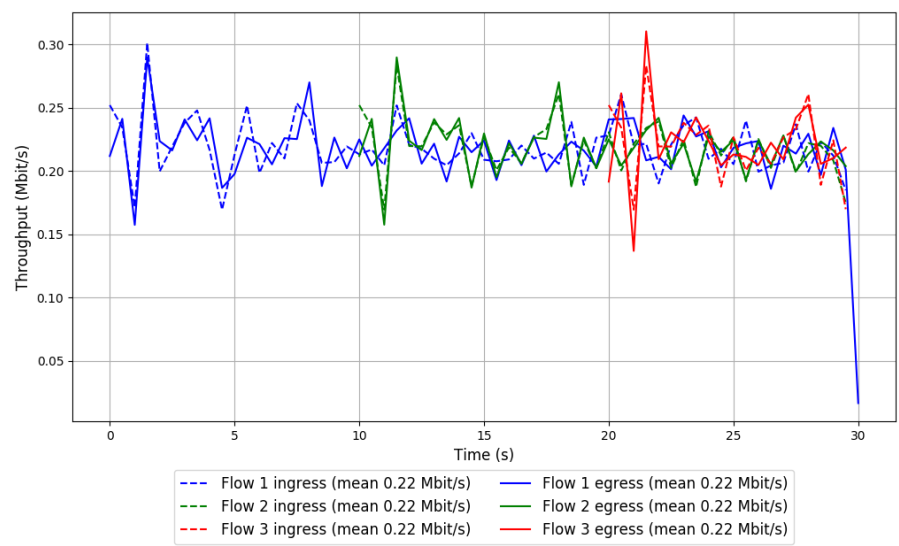


```
Run 6: Statistics of SCReAM

Start at: 2017-11-16 20:32:37
End at: 2017-11-16 20:33:07

# Below is generated by plot.py at 2017-11-16 23:00:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.047 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.076 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.613 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.599 ms
Loss rate: 0.00%
```

Run 6: Report of SCReAM — Data Link

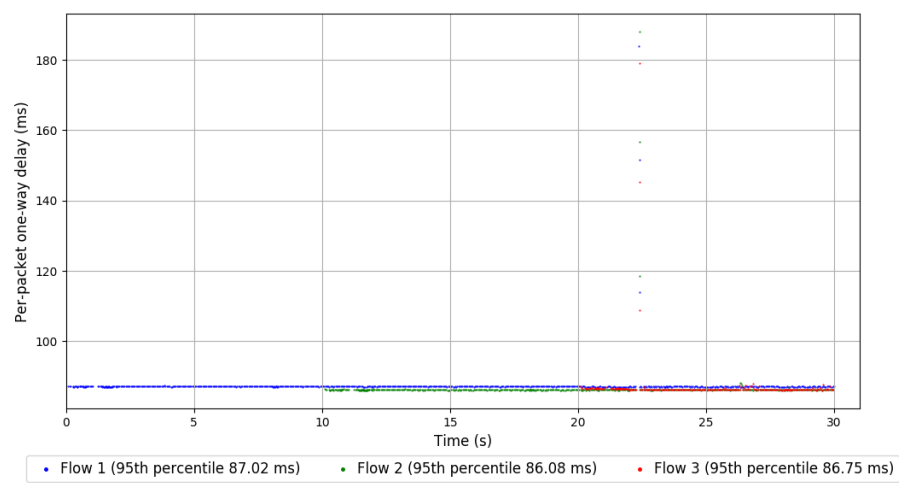
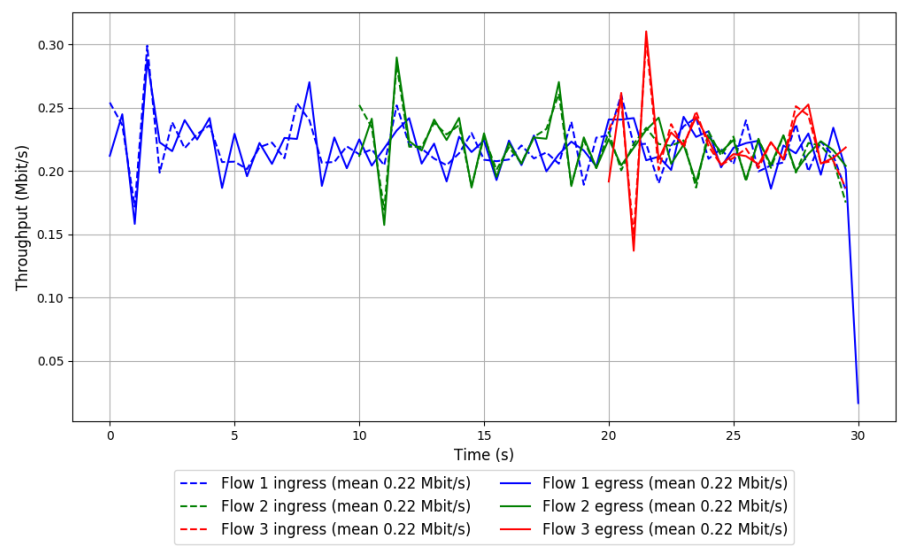


```
Run 7: Statistics of SReAM

Start at: 2017-11-16 20:45:20
End at: 2017-11-16 20:45:50

# Below is generated by plot.py at 2017-11-16 23:00:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.006 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.018 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.083 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.753 ms
Loss rate: 0.00%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2017-11-16 20:58:12

End at: 2017-11-16 20:58:42

Below is generated by plot.py at 2017-11-16 23:00:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.993 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.559 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.994 ms

Loss rate: 0.00%

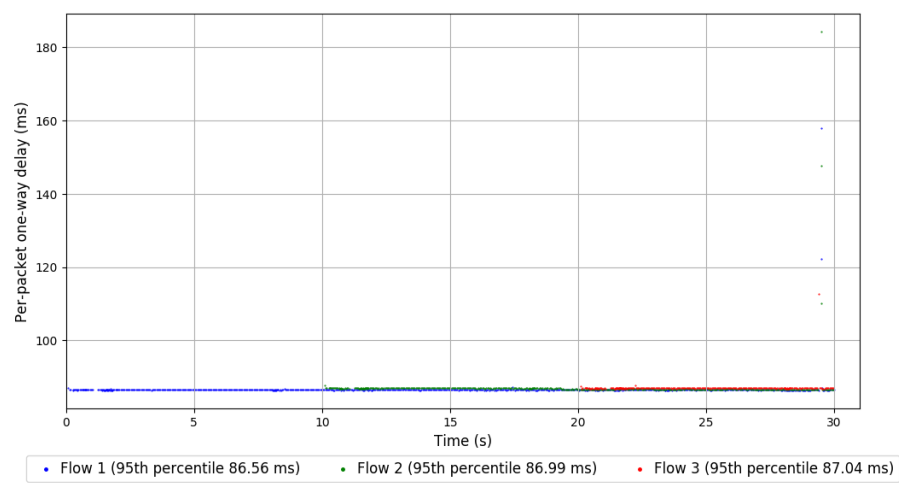
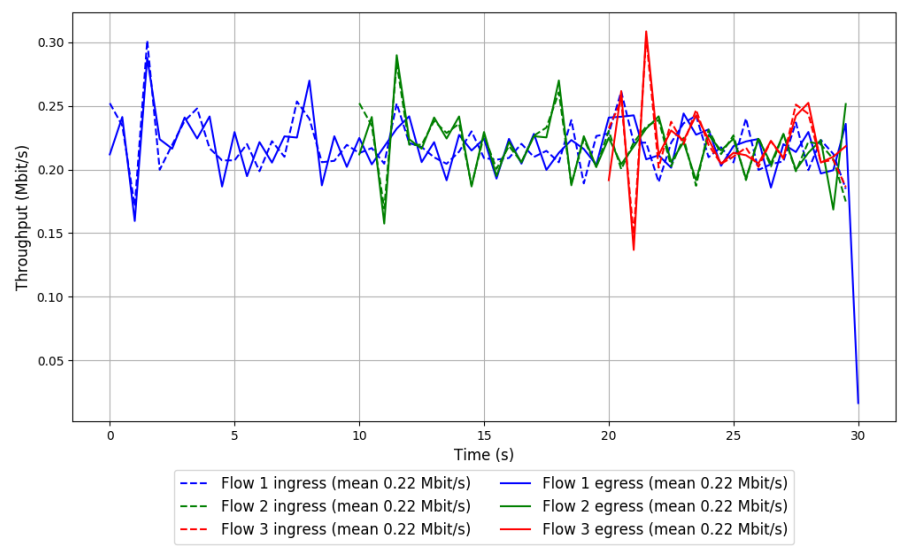
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.036 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

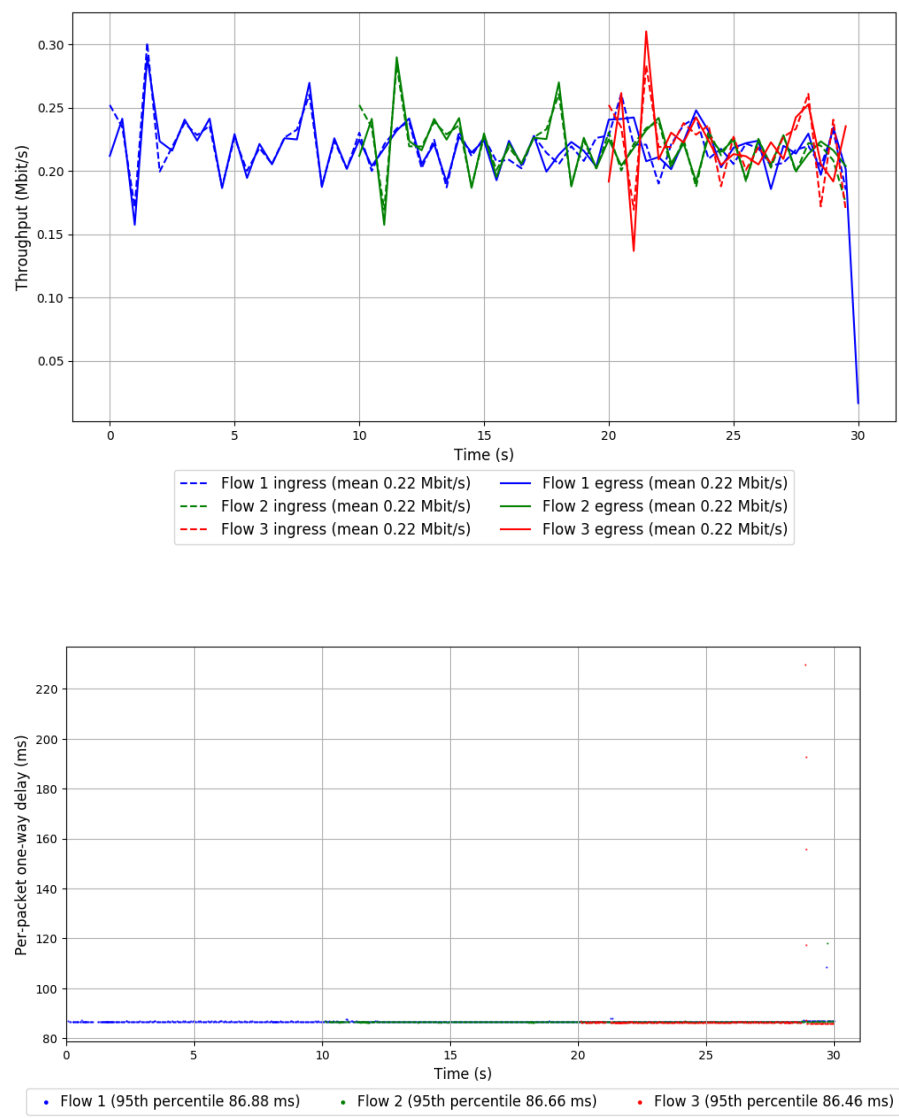


```
Run 9: Statistics of SCReAM

Start at: 2017-11-16 21:11:13
End at: 2017-11-16 21:11:43

# Below is generated by plot.py at 2017-11-16 23:00:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.811 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.876 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.660 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.464 ms
Loss rate: 0.00%
```

Run 9: Report of SReAM — Data Link

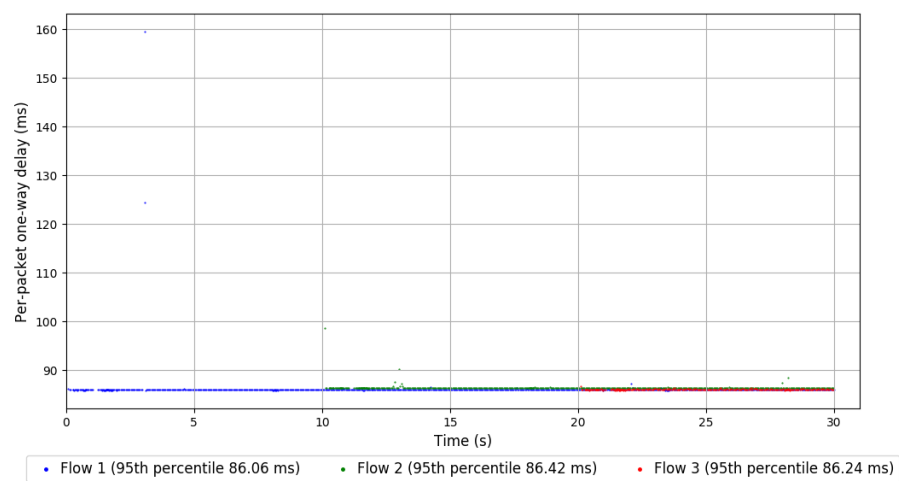
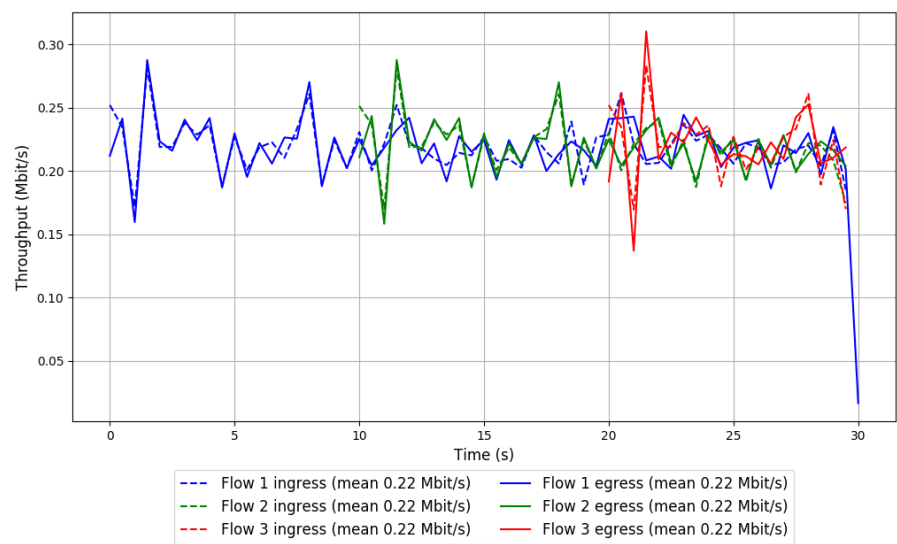


```
Run 10: Statistics of SReAM

Start at: 2017-11-16 21:24:09
End at: 2017-11-16 21:24:39

# Below is generated by plot.py at 2017-11-16 23:00:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.393 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.064 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.421 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.237 ms
Loss rate: 0.00%
```

Run 10: Report of SCRaM — Data Link

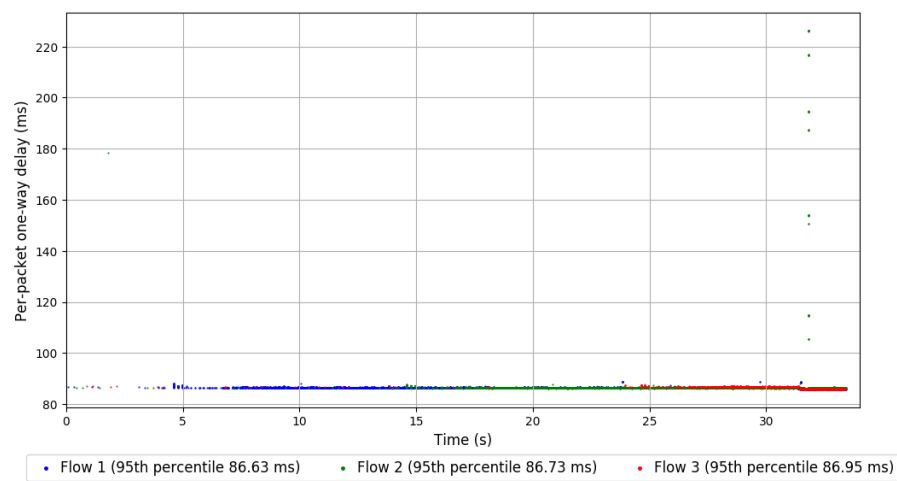
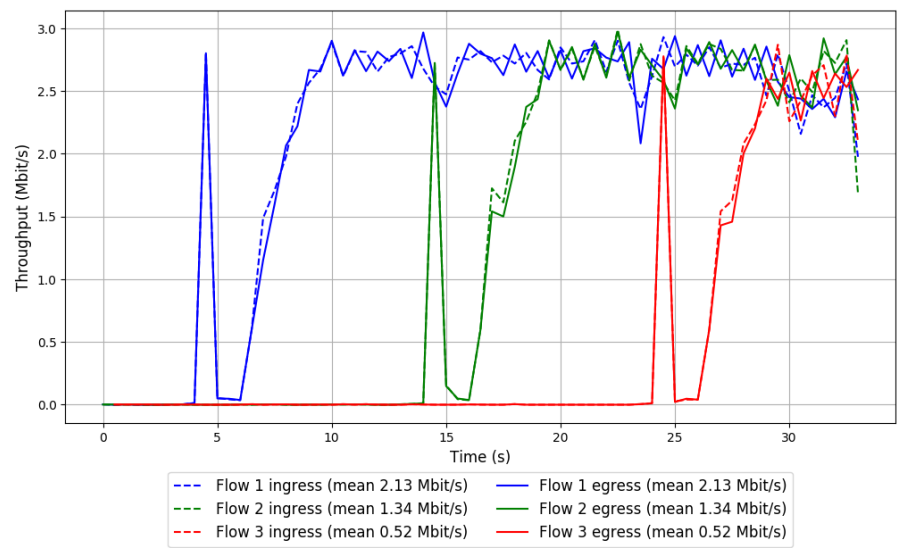


```
Run 1: Statistics of WebRTC media

Start at: 2017-11-16 19:30:14
End at: 2017-11-16 19:30:44

# Below is generated by plot.py at 2017-11-16 23:00:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.96 Mbit/s
95th percentile per-packet one-way delay: 86.847 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 86.633 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.34 Mbit/s
95th percentile per-packet one-way delay: 86.732 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 86.949 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-11-16 19:43:05

End at: 2017-11-16 19:43:35

Below is generated by plot.py at 2017-11-16 23:00:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.88 Mbit/s

95th percentile per-packet one-way delay: 86.720 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 86.616 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 86.767 ms

Loss rate: 0.00%

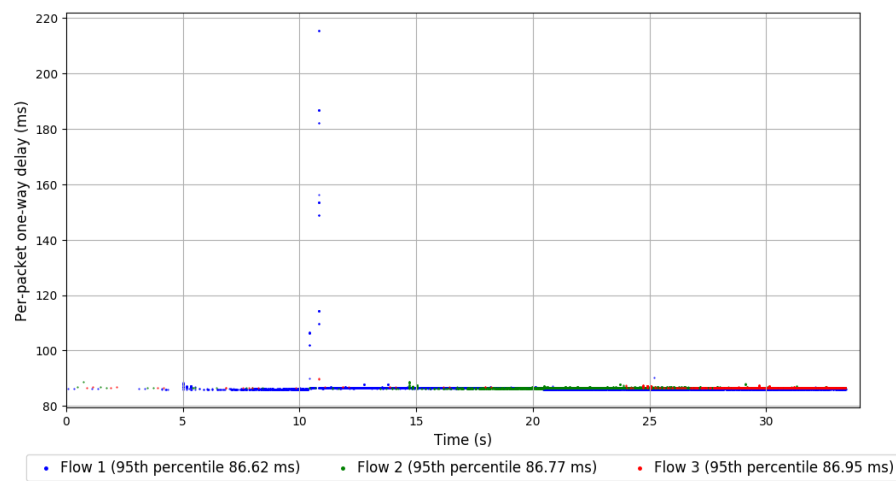
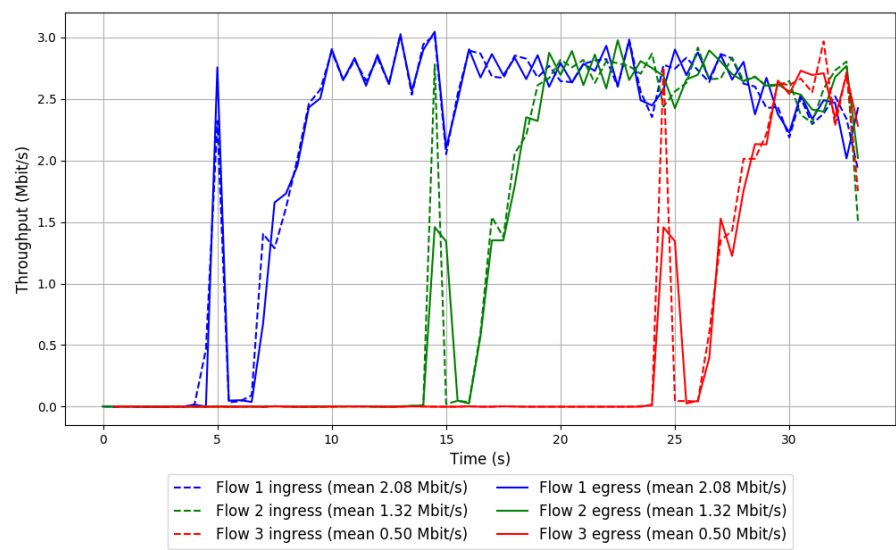
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 86.951 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-16 19:56:04

End at: 2017-11-16 19:56:34

Below is generated by plot.py at 2017-11-16 23:00:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.03 Mbit/s

95th percentile per-packet one-way delay: 86.806 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 86.740 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 86.865 ms

Loss rate: 0.00%

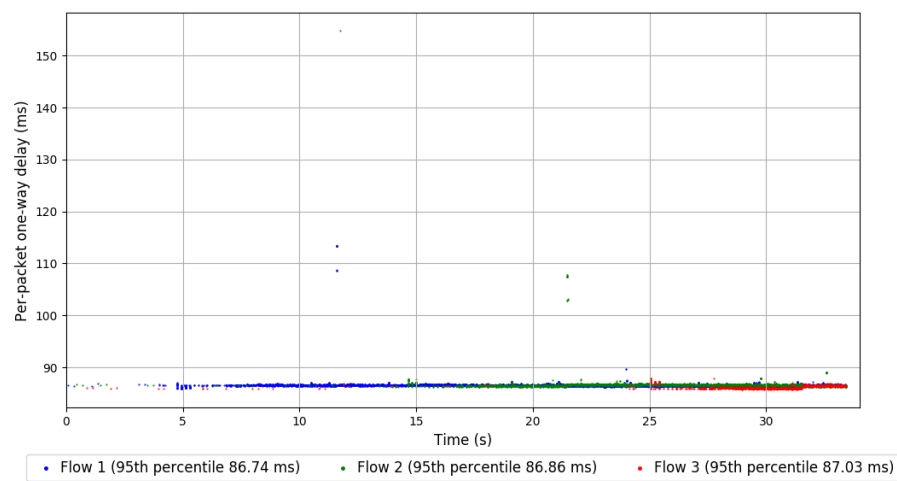
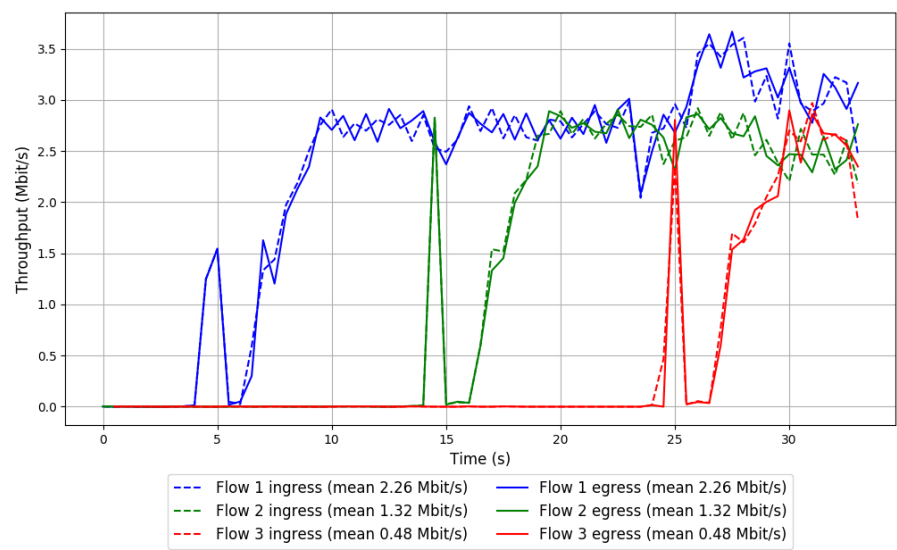
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 87.028 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-16 20:08:41

End at: 2017-11-16 20:09:11

Below is generated by plot.py at 2017-11-16 23:00:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.88 Mbit/s

95th percentile per-packet one-way delay: 86.972 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 86.987 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 86.821 ms

Loss rate: 0.00%

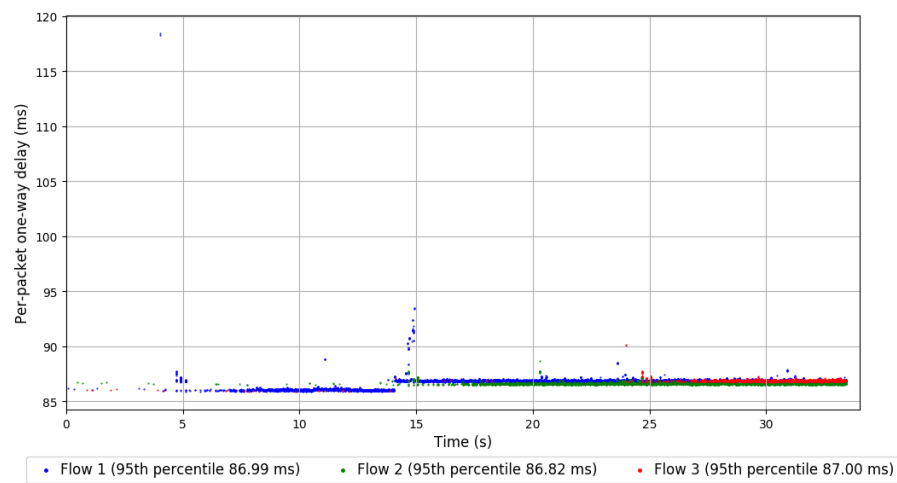
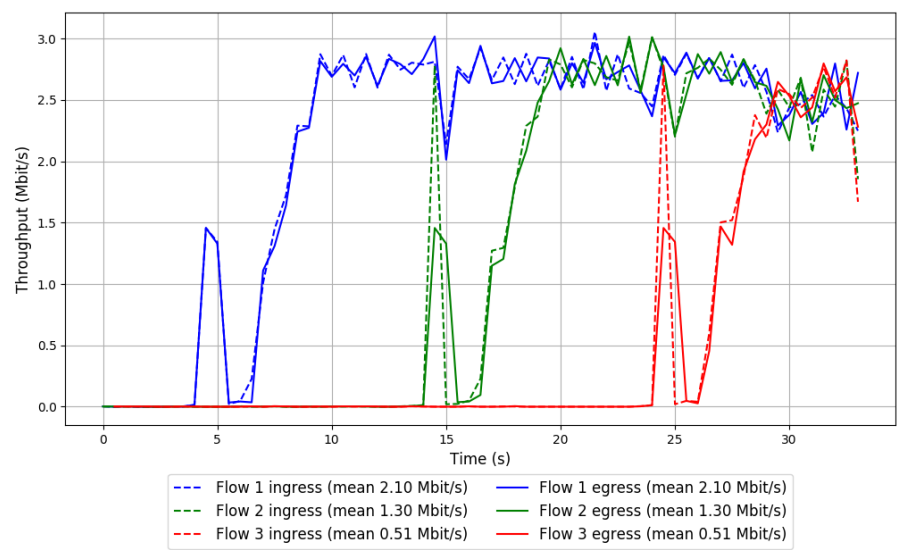
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 87.003 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-16 20:21:37

End at: 2017-11-16 20:22:08

Below is generated by plot.py at 2017-11-16 23:00:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.37 Mbit/s

95th percentile per-packet one-way delay: 86.700 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 86.641 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 86.736 ms

Loss rate: 0.00%

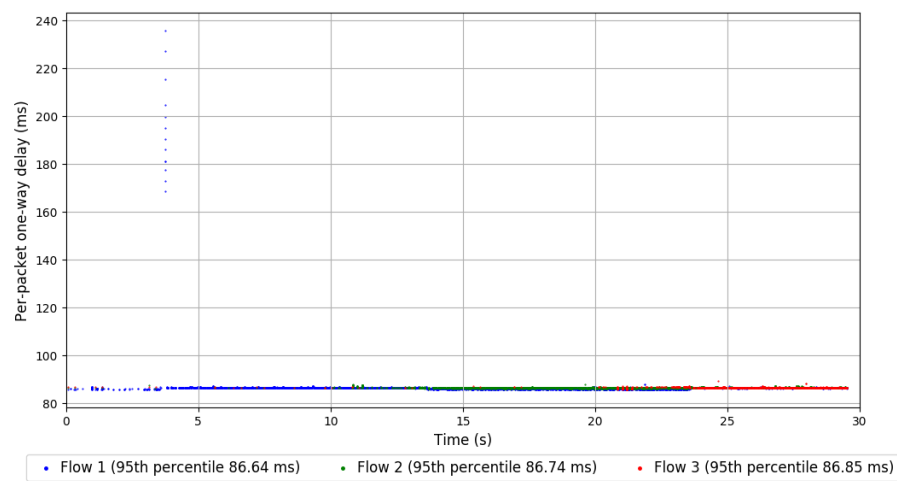
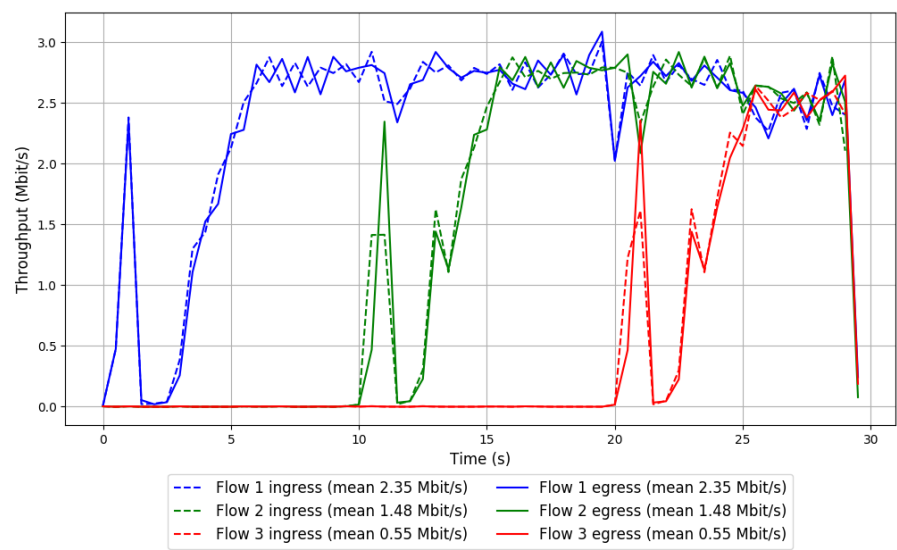
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 86.852 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-16 20:34:09

End at: 2017-11-16 20:34:39

Below is generated by plot.py at 2017-11-16 23:00:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 86.906 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 86.163 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 86.605 ms

Loss rate: 0.00%

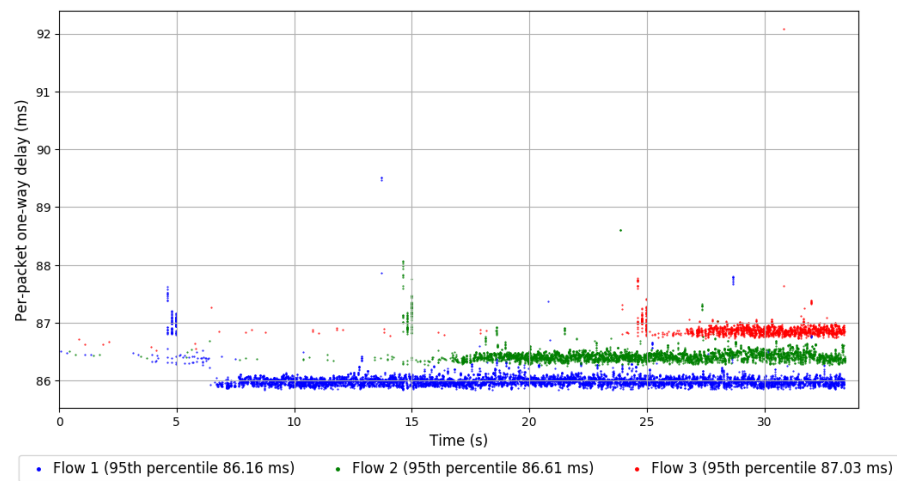
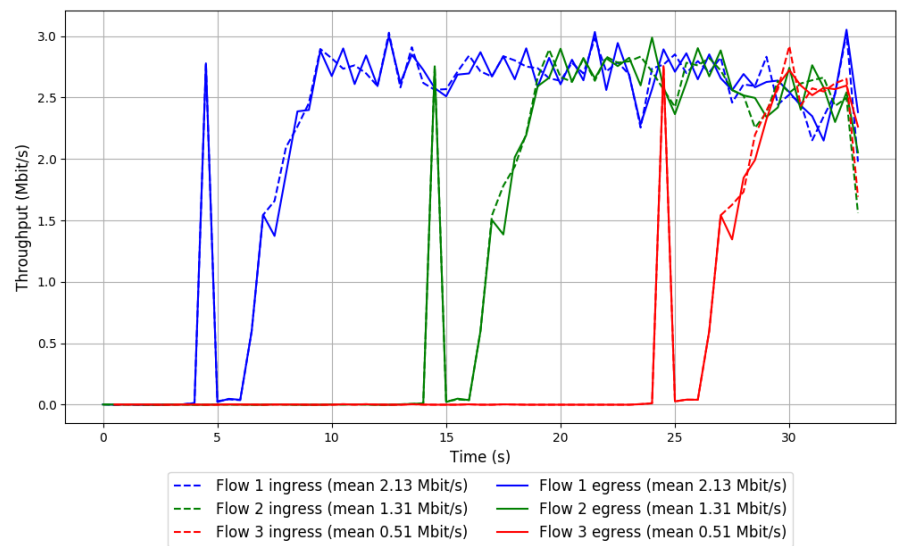
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 87.028 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-16 20:46:53

End at: 2017-11-16 20:47:23

Below is generated by plot.py at 2017-11-16 23:00:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.90 Mbit/s

95th percentile per-packet one-way delay: 86.795 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 86.615 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 86.859 ms

Loss rate: 0.00%

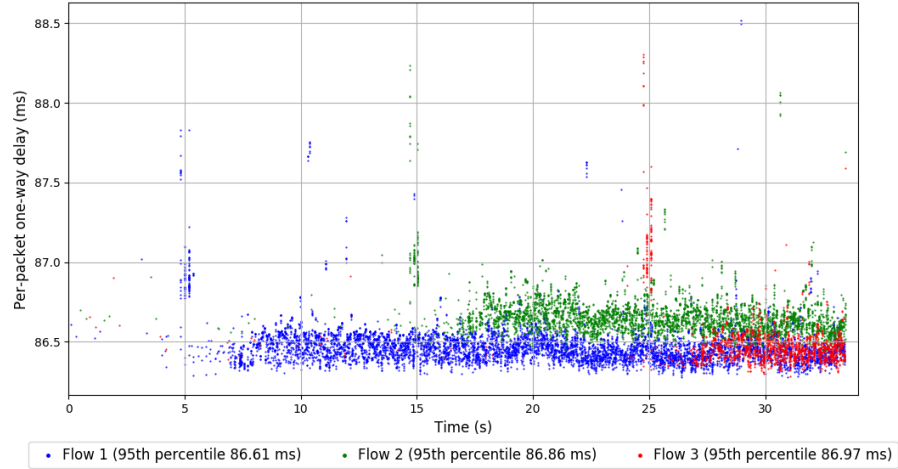
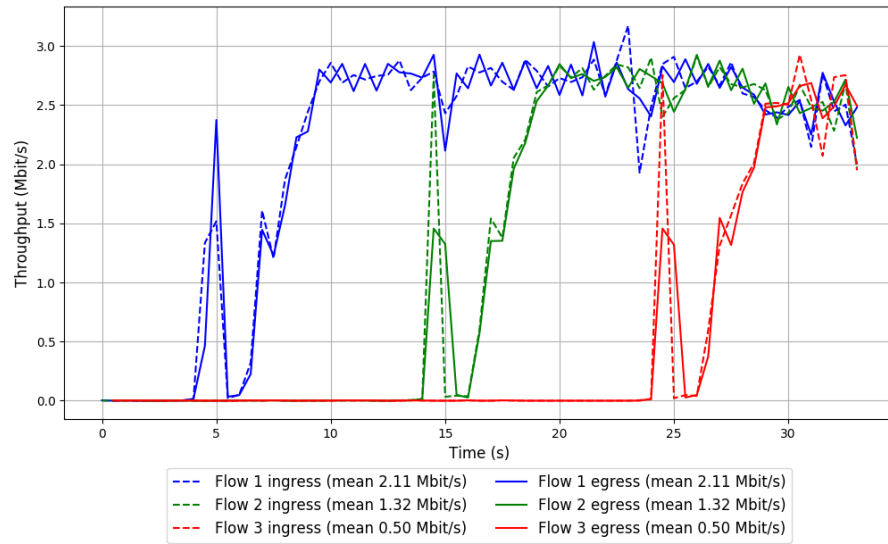
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 86.967 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-16 20:59:46

End at: 2017-11-16 21:00:16

Below is generated by plot.py at 2017-11-16 23:00:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 86.989 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 86.588 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 87.036 ms

Loss rate: 0.00%

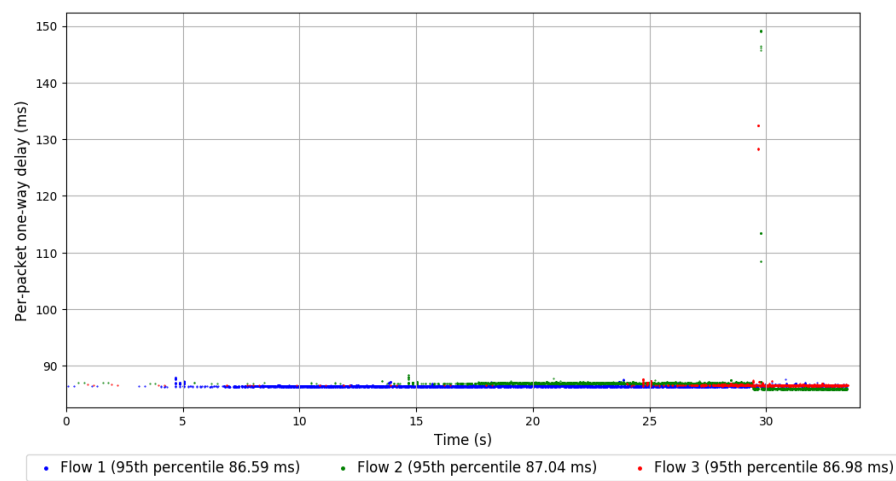
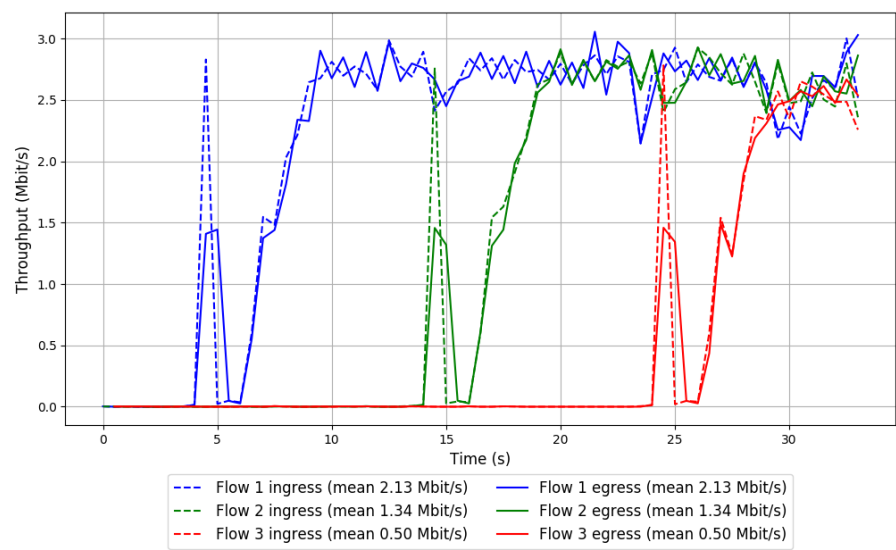
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 86.980 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-16 21:12:46

End at: 2017-11-16 21:13:16

Below is generated by plot.py at 2017-11-16 23:00:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.29 Mbit/s

95th percentile per-packet one-way delay: 86.970 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 86.979 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 86.950 ms

Loss rate: 0.00%

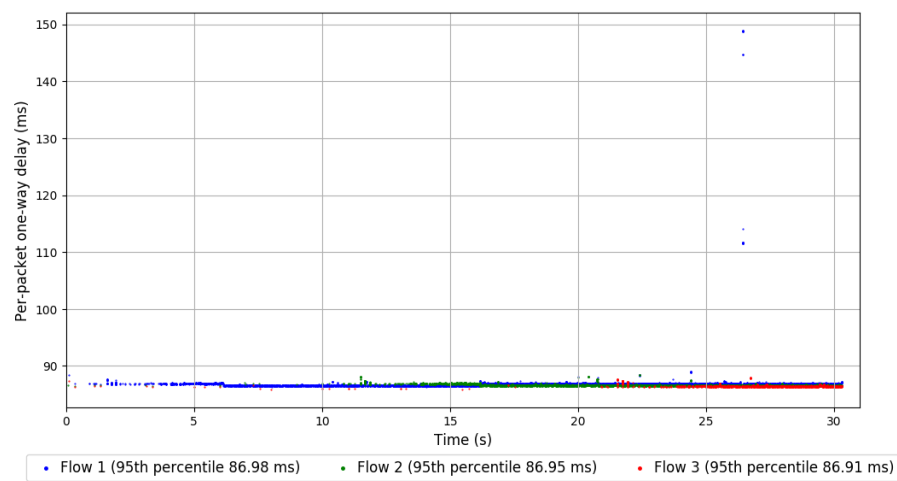
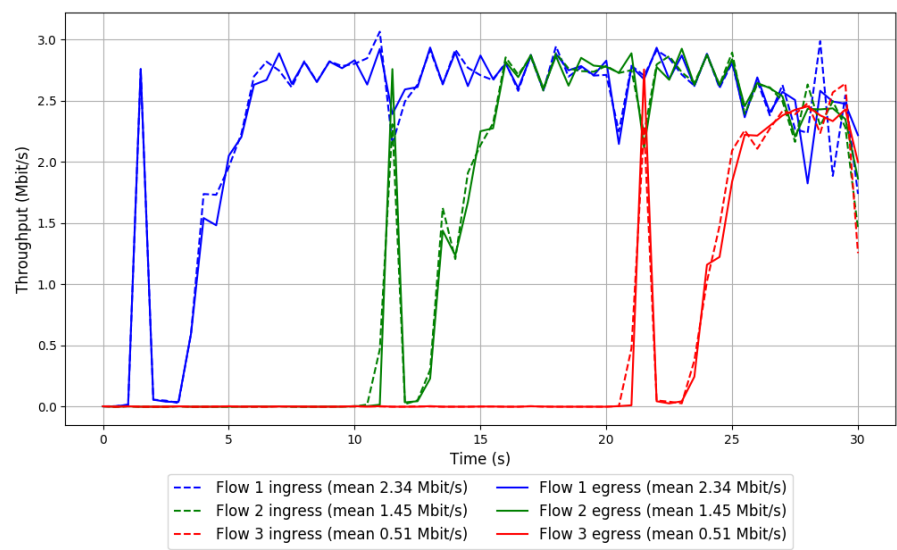
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 86.909 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-16 21:25:42

End at: 2017-11-16 21:26:12

Below is generated by plot.py at 2017-11-16 23:00:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 86.663 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 86.651 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 86.641 ms

Loss rate: 0.00%

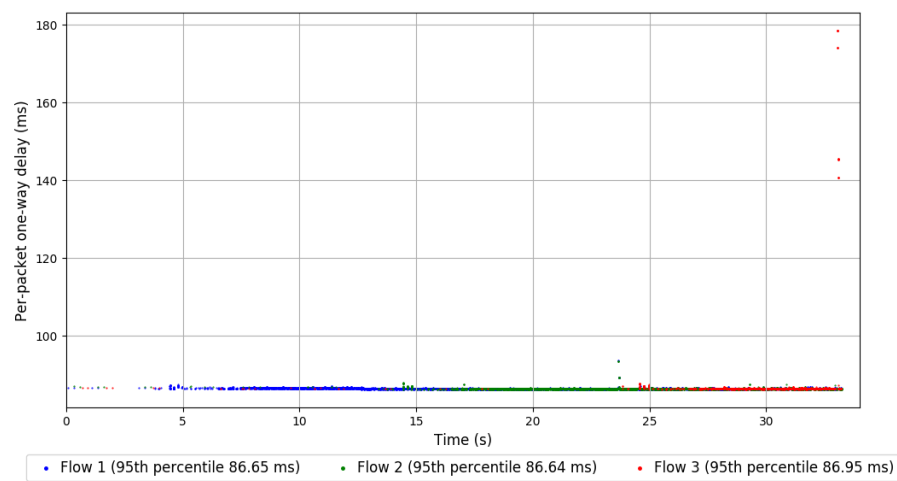
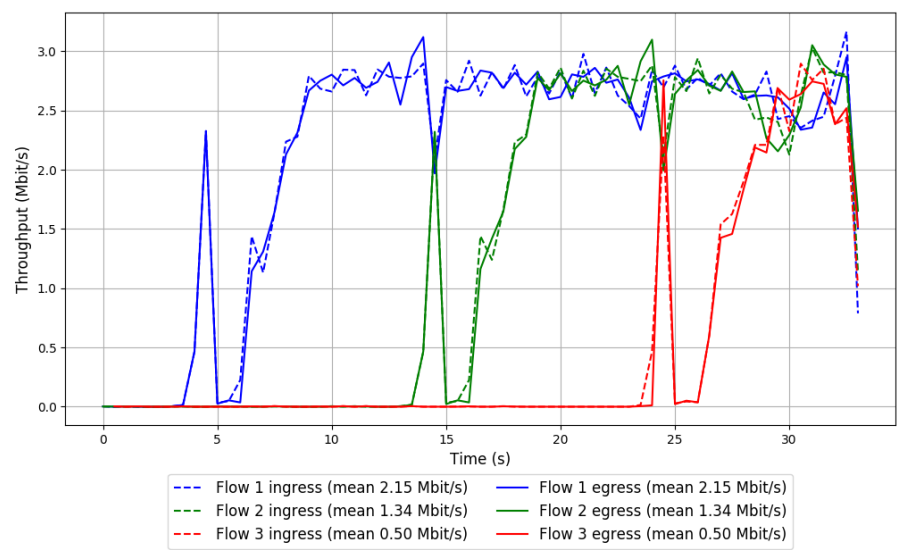
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 86.954 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

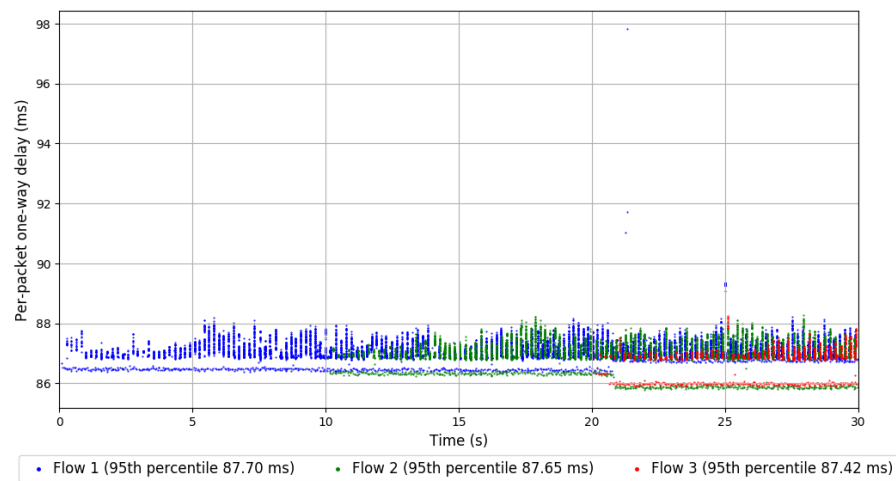
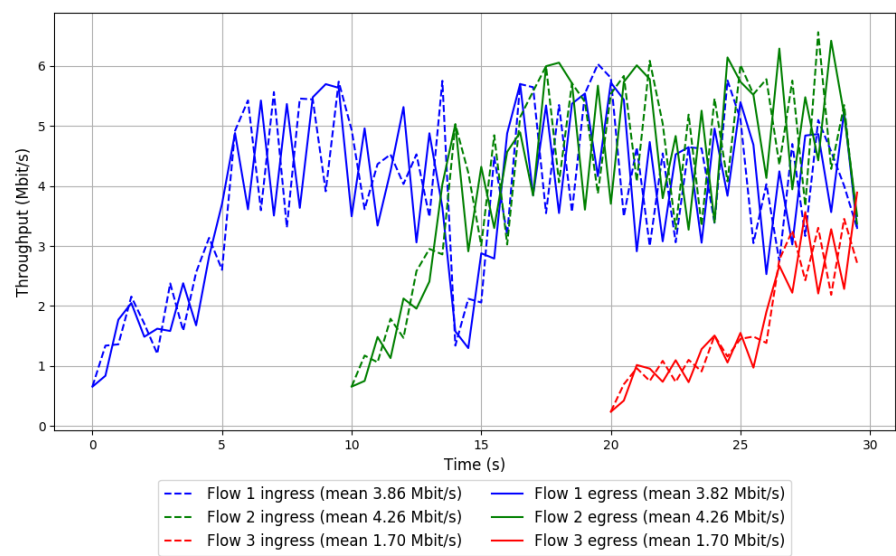


```
Run 1: Statistics of Sprout

Start at: 2017-11-16 19:25:01
End at: 2017-11-16 19:25:31

# Below is generated by plot.py at 2017-11-16 23:00:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.21 Mbit/s
95th percentile per-packet one-way delay: 87.663 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 87.705 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 4.26 Mbit/s
95th percentile per-packet one-way delay: 87.647 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.70 Mbit/s
95th percentile per-packet one-way delay: 87.423 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-11-16 19:37:54

End at: 2017-11-16 19:38:24

Below is generated by plot.py at 2017-11-16 23:00:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 87.569 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 4.26 Mbit/s

95th percentile per-packet one-way delay: 87.639 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 3.88 Mbit/s

95th percentile per-packet one-way delay: 87.475 ms

Loss rate: 0.21%

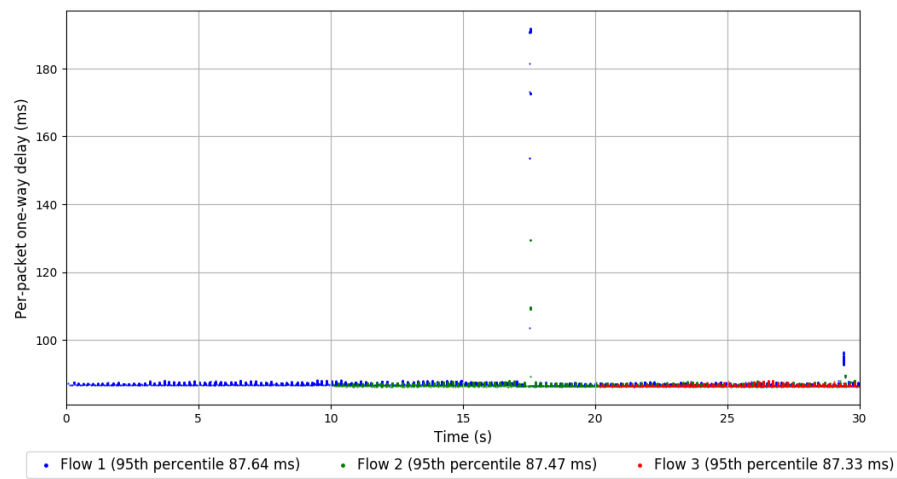
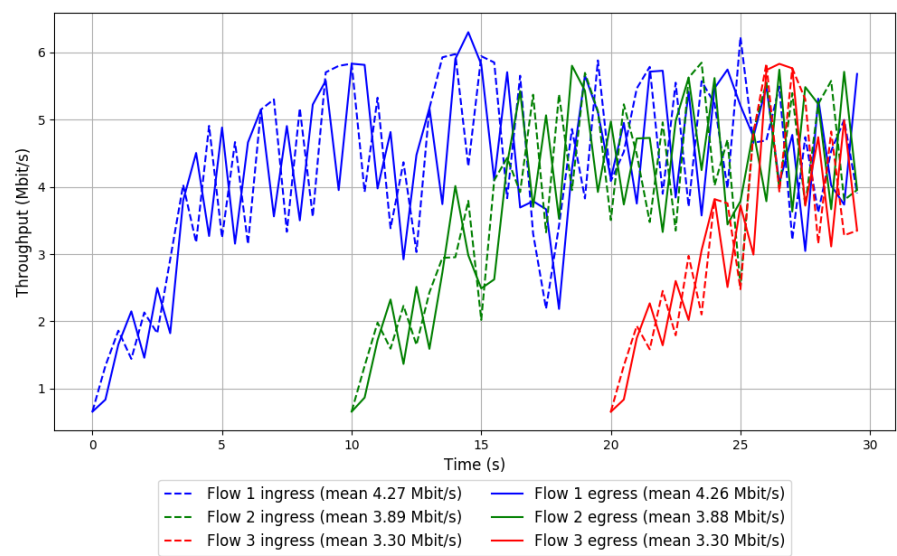
-- Flow 3:

Average throughput: 3.30 Mbit/s

95th percentile per-packet one-way delay: 87.335 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-11-16 19:50:50

End at: 2017-11-16 19:51:20

Below is generated by plot.py at 2017-11-16 23:00:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.97 Mbit/s

95th percentile per-packet one-way delay: 87.821 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 87.873 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 3.80 Mbit/s

95th percentile per-packet one-way delay: 87.736 ms

Loss rate: 0.25%

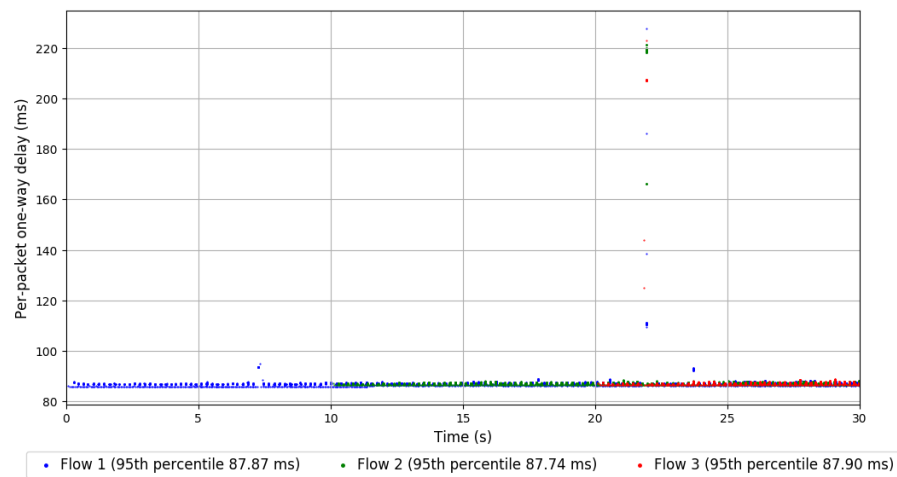
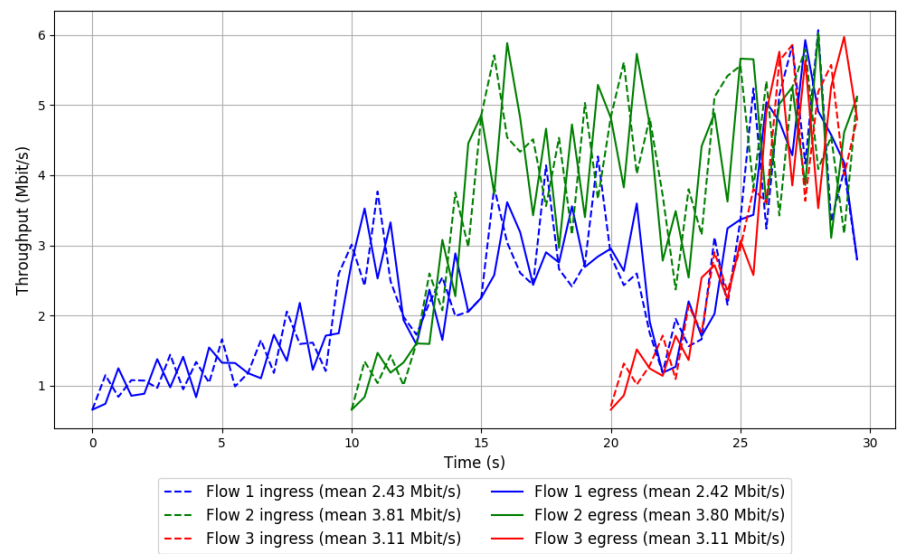
-- Flow 3:

Average throughput: 3.11 Mbit/s

95th percentile per-packet one-way delay: 87.904 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-16 20:03:38

End at: 2017-11-16 20:04:08

Below is generated by plot.py at 2017-11-16 23:00:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.21 Mbit/s

95th percentile per-packet one-way delay: 87.824 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 4.47 Mbit/s

95th percentile per-packet one-way delay: 87.791 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 3.78 Mbit/s

95th percentile per-packet one-way delay: 87.895 ms

Loss rate: 0.00%

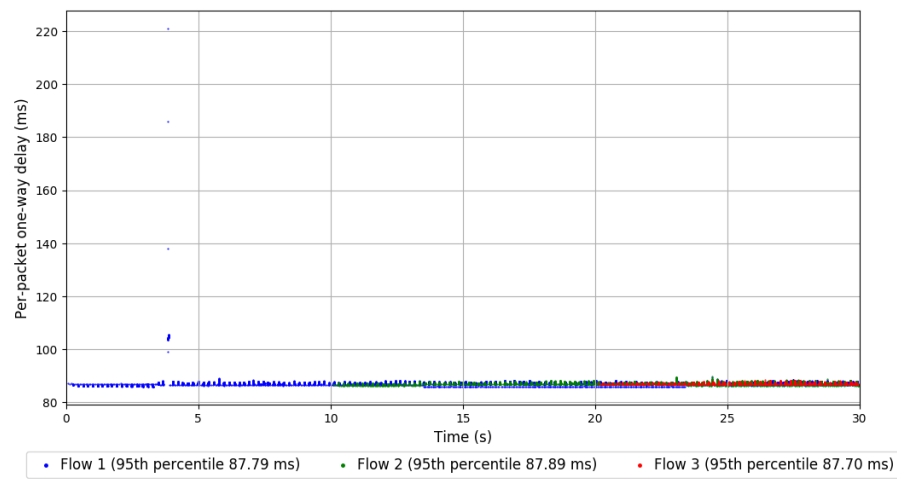
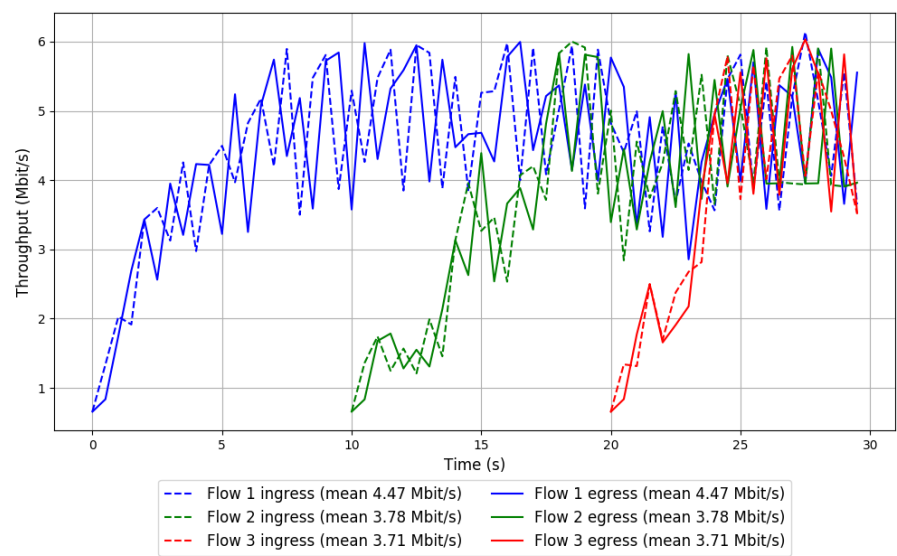
-- Flow 3:

Average throughput: 3.71 Mbit/s

95th percentile per-packet one-way delay: 87.704 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

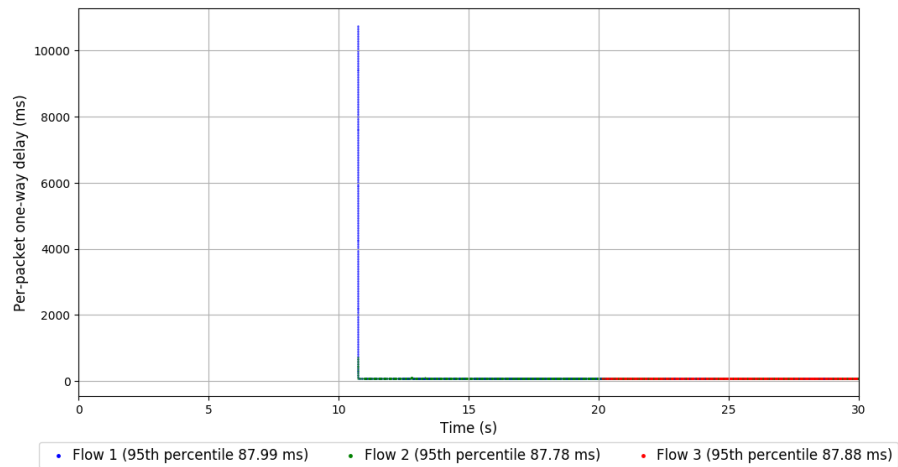
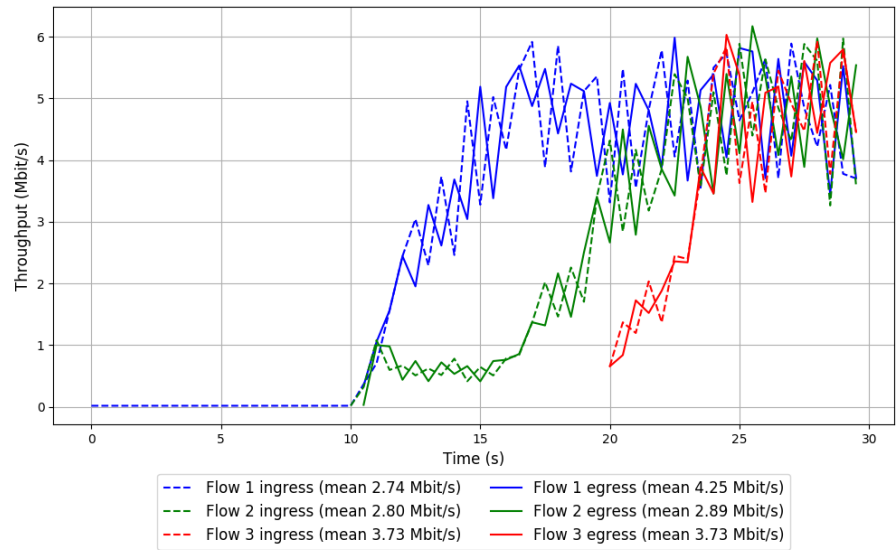


Run 5: Statistics of Sprout

Start at: 2017-11-16 20:16:29

End at: 2017-11-16 20:16:59

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-11-16 20:29:04

End at: 2017-11-16 20:29:34

Below is generated by plot.py at 2017-11-16 23:00:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.22 Mbit/s

95th percentile per-packet one-way delay: 87.685 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 3.89 Mbit/s

95th percentile per-packet one-way delay: 87.718 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 3.89 Mbit/s

95th percentile per-packet one-way delay: 87.701 ms

Loss rate: 0.00%

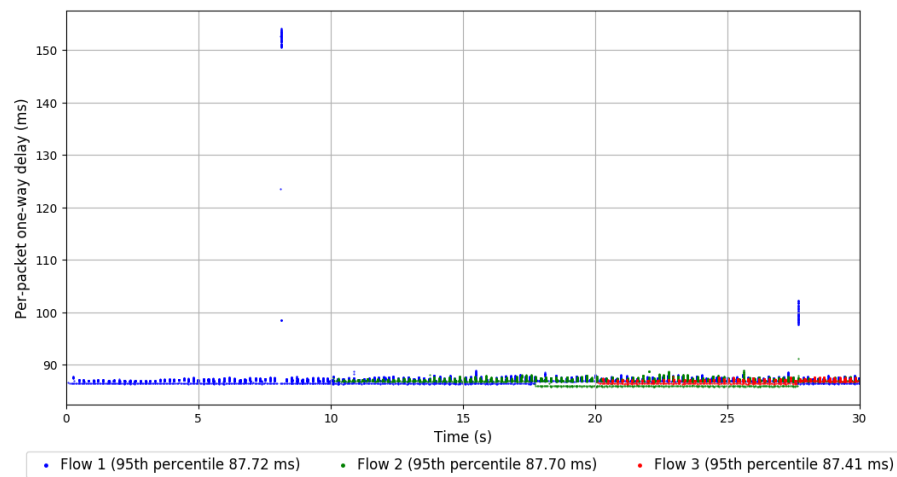
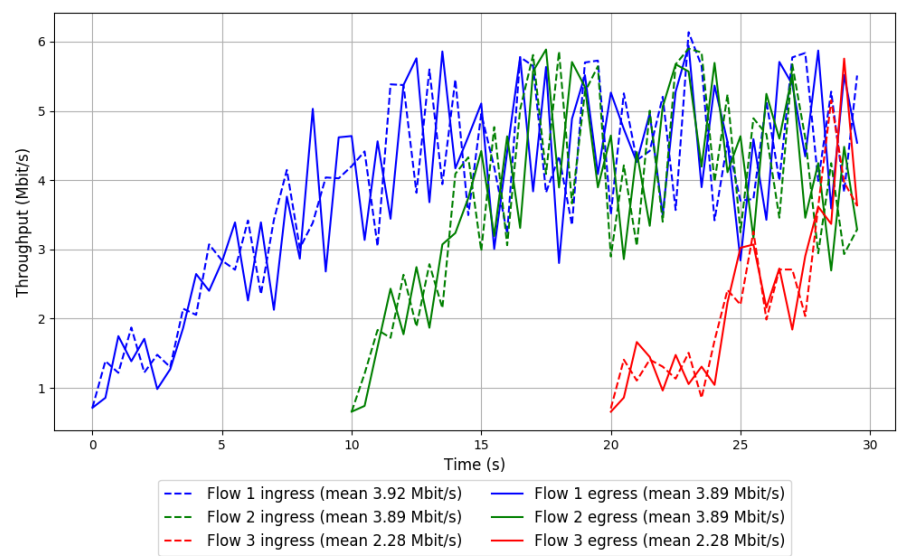
-- Flow 3:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 87.405 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-16 20:41:47

End at: 2017-11-16 20:42:17

Below is generated by plot.py at 2017-11-16 23:00:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.53 Mbit/s

95th percentile per-packet one-way delay: 87.776 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 4.35 Mbit/s

95th percentile per-packet one-way delay: 87.774 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 3.61 Mbit/s

95th percentile per-packet one-way delay: 87.793 ms

Loss rate: 0.00%

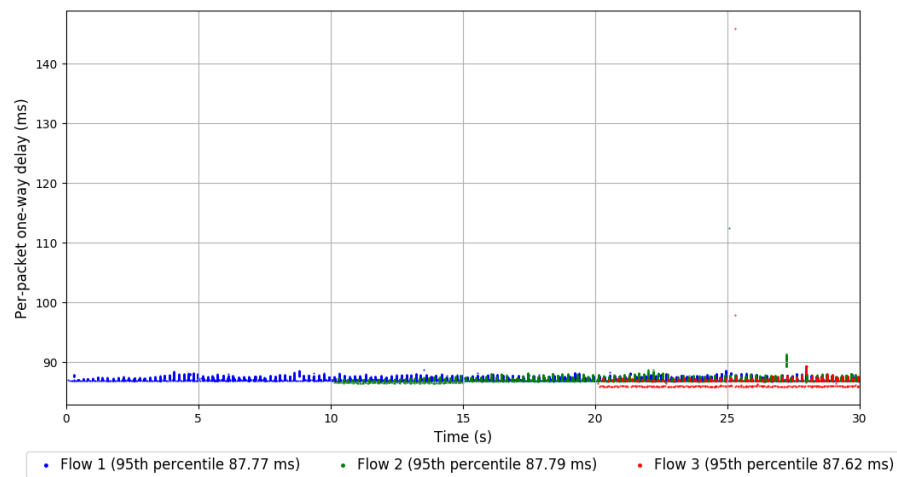
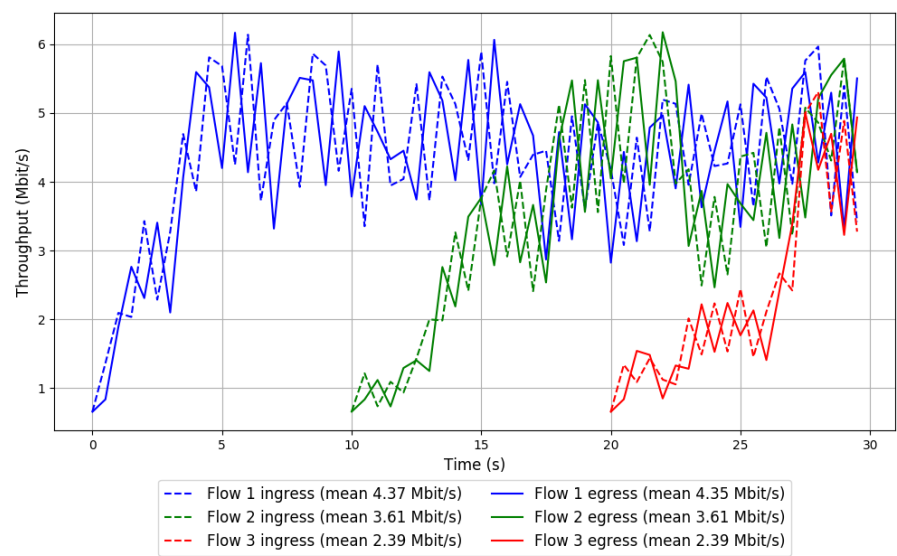
-- Flow 3:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 87.625 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-16 20:54:38

End at: 2017-11-16 20:55:08

Below is generated by plot.py at 2017-11-16 23:00:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 87.698 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 4.04 Mbit/s

95th percentile per-packet one-way delay: 87.682 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 4.27 Mbit/s

95th percentile per-packet one-way delay: 87.748 ms

Loss rate: 0.00%

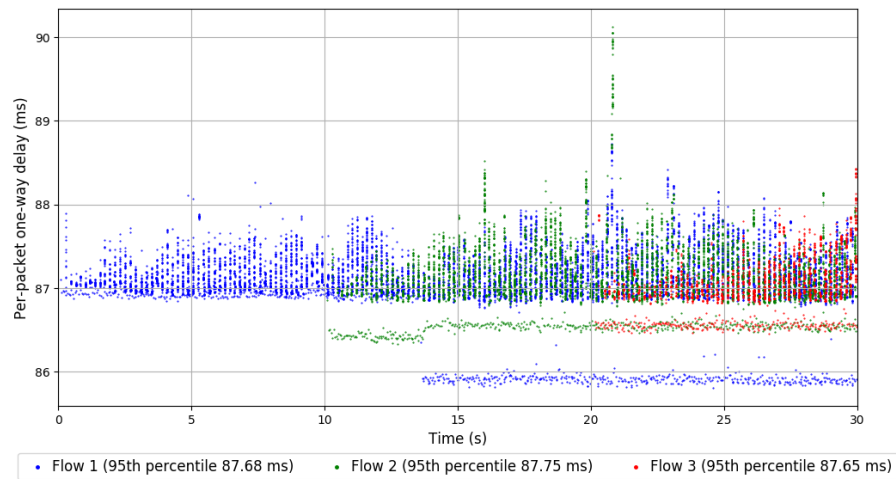
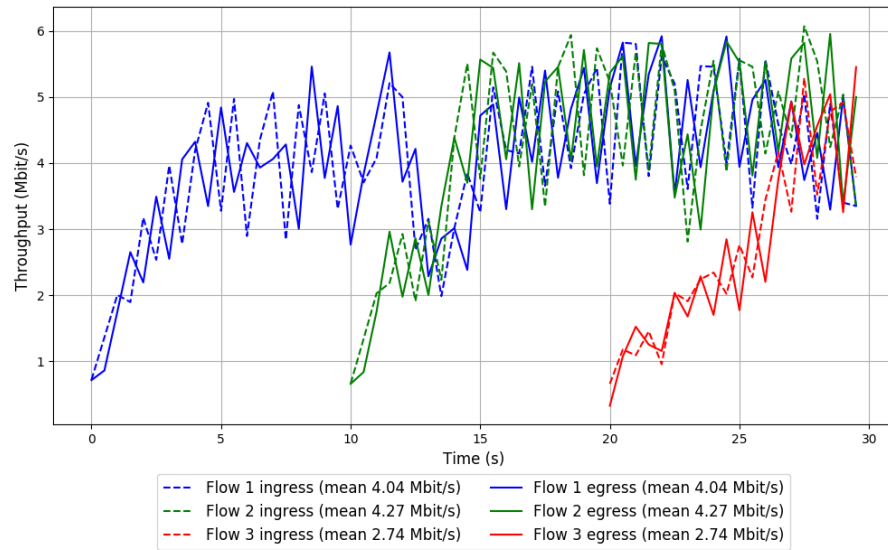
-- Flow 3:

Average throughput: 2.74 Mbit/s

95th percentile per-packet one-way delay: 87.648 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-16 21:07:28

End at: 2017-11-16 21:07:58

Below is generated by plot.py at 2017-11-16 23:00:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 6.28 Mbit/s

95th percentile per-packet one-way delay: 87.772 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 3.83 Mbit/s

95th percentile per-packet one-way delay: 87.824 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 87.533 ms

Loss rate: 0.03%

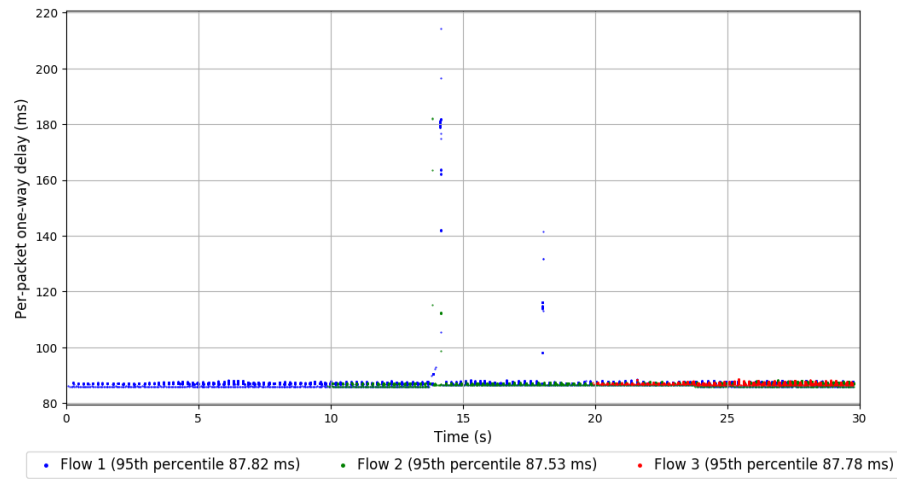
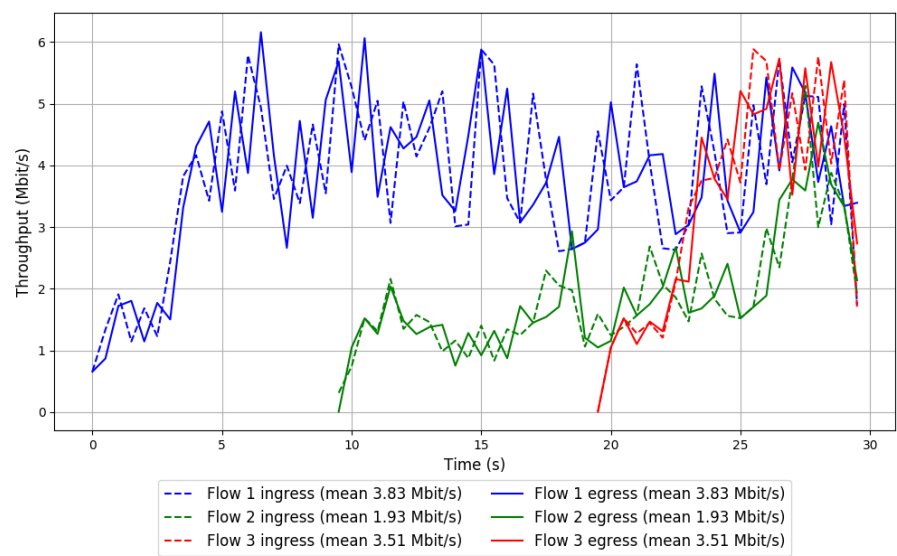
-- Flow 3:

Average throughput: 3.51 Mbit/s

95th percentile per-packet one-way delay: 87.776 ms

Loss rate: 0.03%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-16 21:20:26

End at: 2017-11-16 21:20:56

Below is generated by plot.py at 2017-11-16 23:00:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 87.816 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 4.09 Mbit/s

95th percentile per-packet one-way delay: 87.823 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 4.39 Mbit/s

95th percentile per-packet one-way delay: 87.830 ms

Loss rate: 0.07%

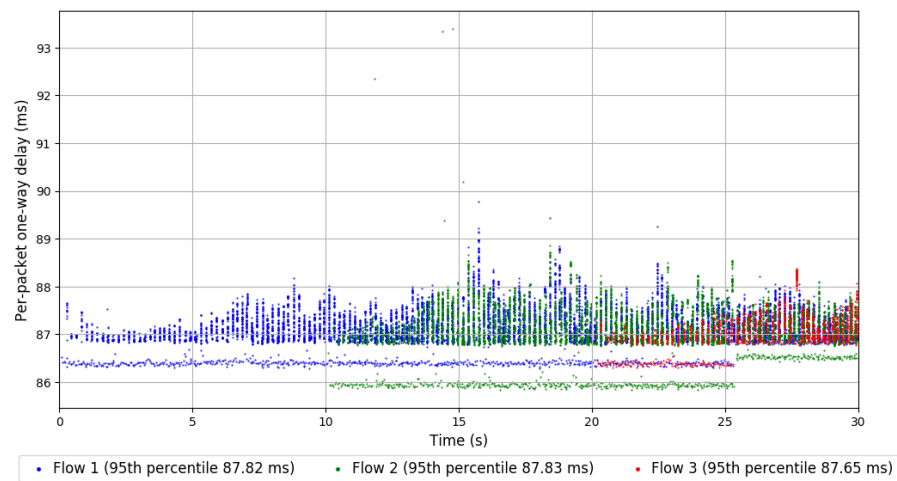
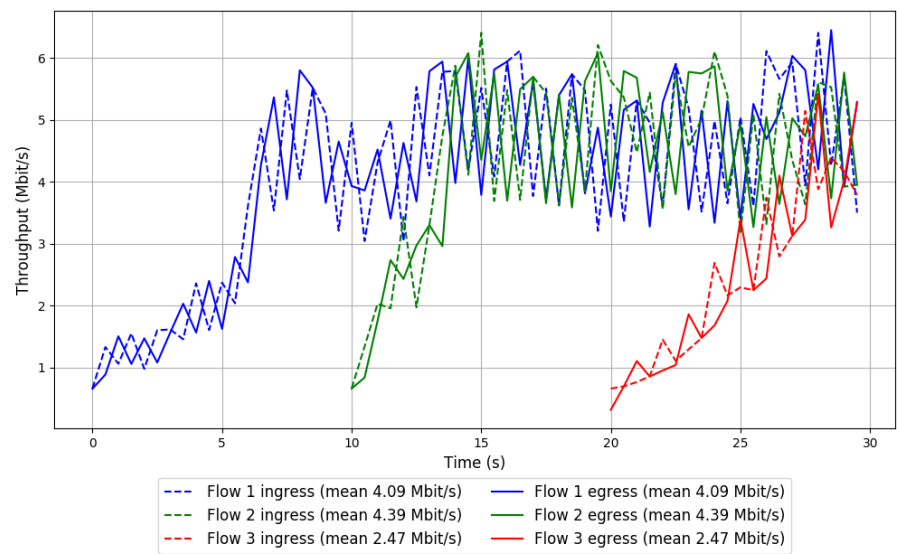
-- Flow 3:

Average throughput: 2.47 Mbit/s

95th percentile per-packet one-way delay: 87.649 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

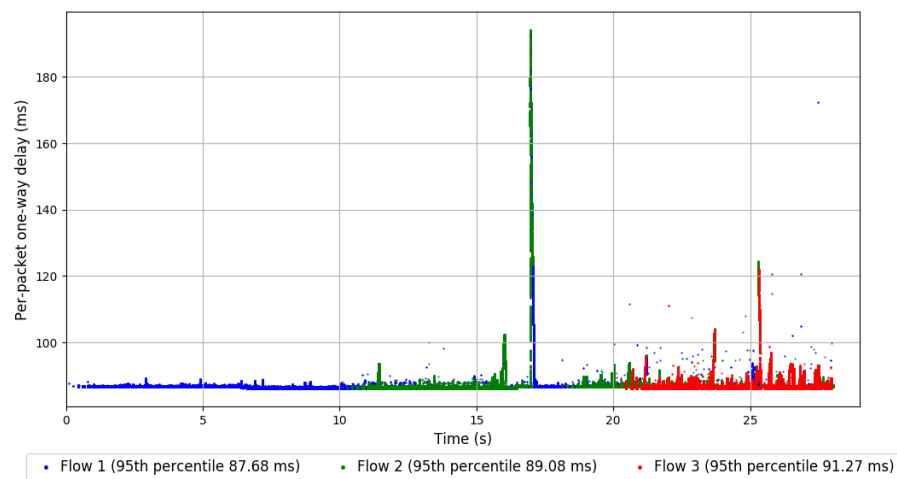
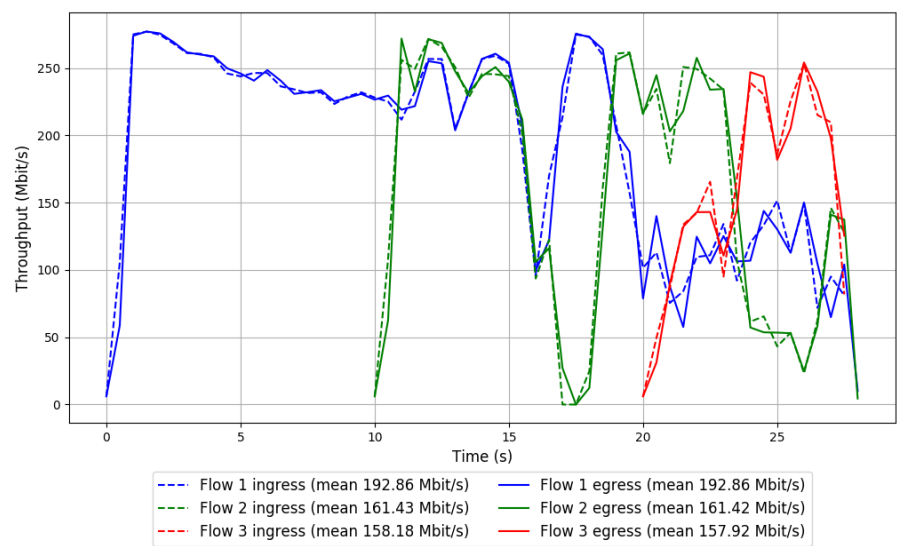


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-16 19:20:53
End at: 2017-11-16 19:21:23

# Below is generated by plot.py at 2017-11-16 23:05:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 340.98 Mbit/s
95th percentile per-packet one-way delay: 88.844 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 192.86 Mbit/s
95th percentile per-packet one-way delay: 87.683 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 161.42 Mbit/s
95th percentile per-packet one-way delay: 89.083 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 157.92 Mbit/s
95th percentile per-packet one-way delay: 91.273 ms
Loss rate: 0.00%
```


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

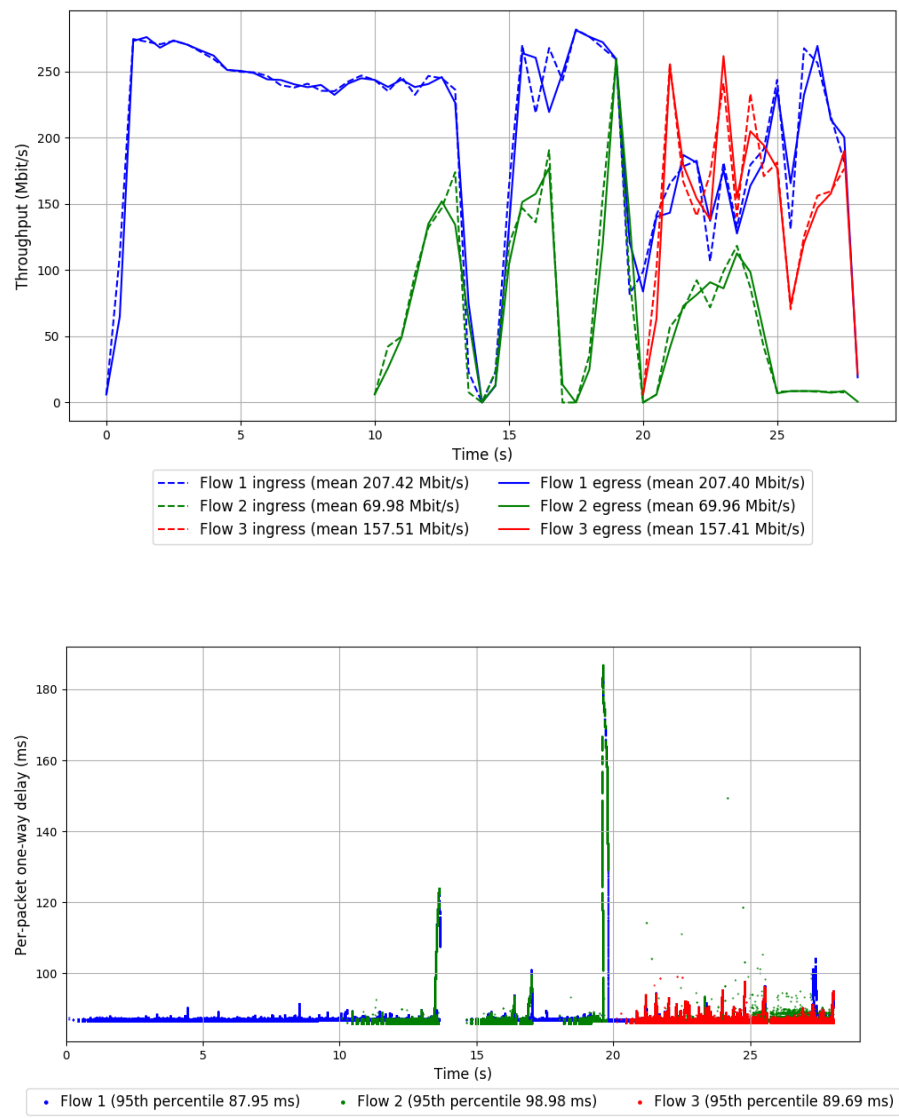


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-16 19:33:50
End at: 2017-11-16 19:34:20

# Below is generated by plot.py at 2017-11-16 23:05:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 296.97 Mbit/s
95th percentile per-packet one-way delay: 88.965 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 207.40 Mbit/s
95th percentile per-packet one-way delay: 87.946 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 69.96 Mbit/s
95th percentile per-packet one-way delay: 98.985 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 157.41 Mbit/s
95th percentile per-packet one-way delay: 89.687 ms
Loss rate: 0.06%
```

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

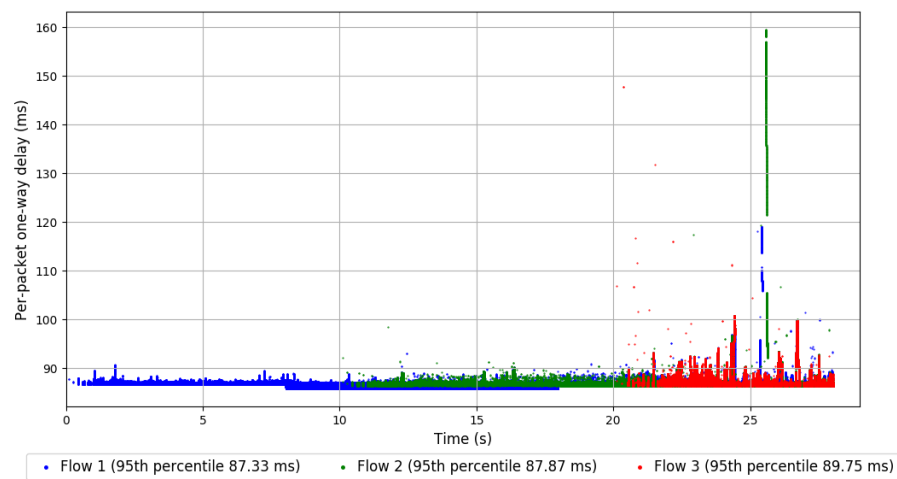
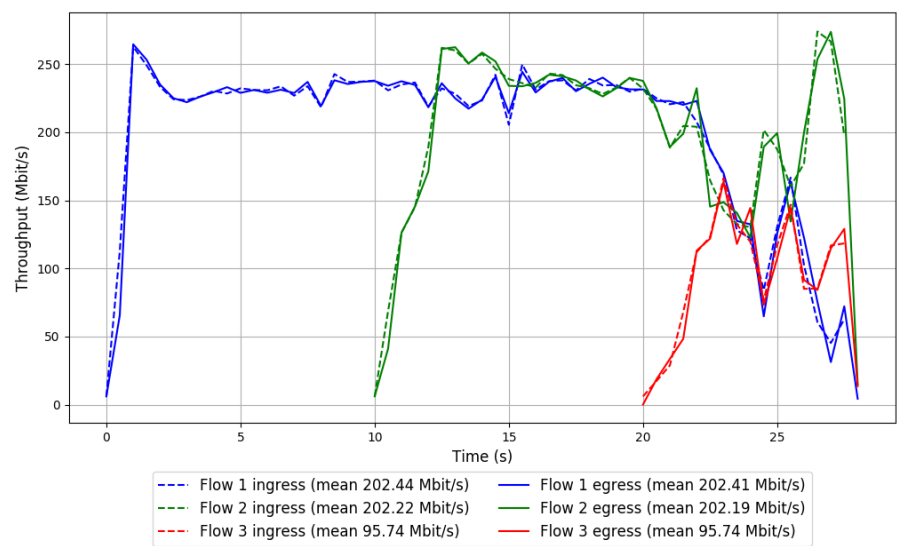


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-11-16 19:46:42
End at: 2017-11-16 19:47:12

# Below is generated by plot.py at 2017-11-16 23:06:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 359.28 Mbit/s
95th percentile per-packet one-way delay: 87.670 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 202.41 Mbit/s
95th percentile per-packet one-way delay: 87.328 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 202.19 Mbit/s
95th percentile per-packet one-way delay: 87.867 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 95.74 Mbit/s
95th percentile per-packet one-way delay: 89.754 ms
Loss rate: 0.00%
```

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

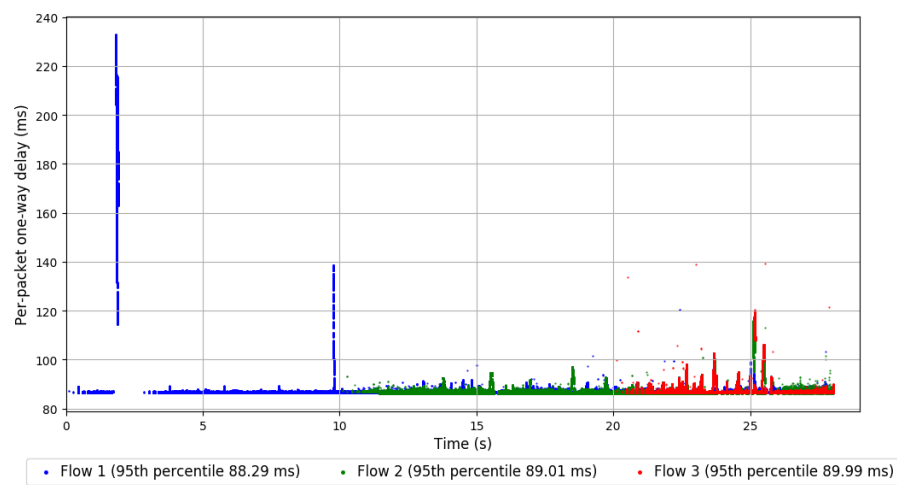
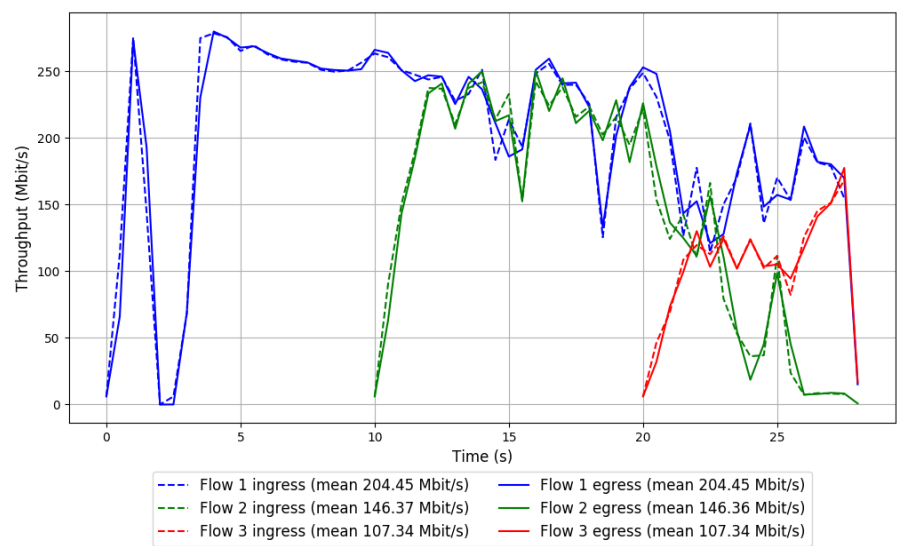


```
Run 4: Statistics of TaoVA-100x

Start at: 2017-11-16 19:59:38
End at: 2017-11-16 20:00:08

# Below is generated by plot.py at 2017-11-16 23:06:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 328.83 Mbit/s
95th percentile per-packet one-way delay: 88.631 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 204.45 Mbit/s
95th percentile per-packet one-way delay: 88.287 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 146.36 Mbit/s
95th percentile per-packet one-way delay: 89.010 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 107.34 Mbit/s
95th percentile per-packet one-way delay: 89.993 ms
Loss rate: 0.01%
```

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

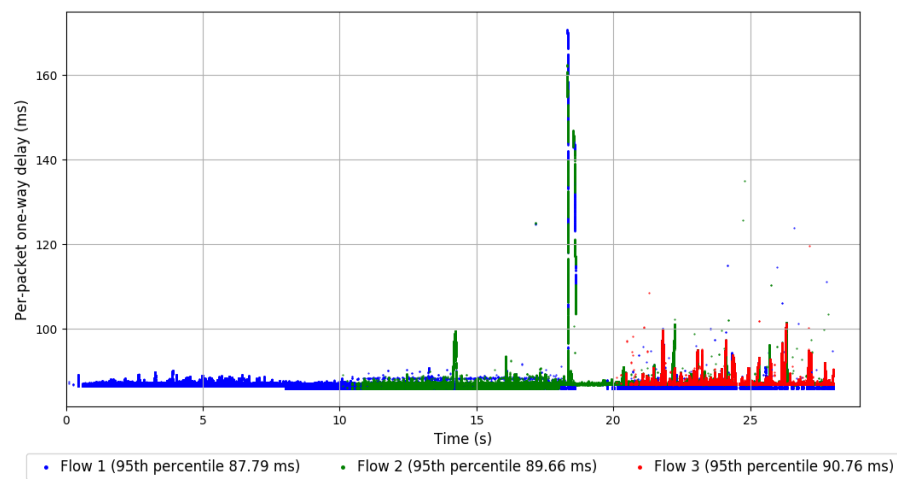
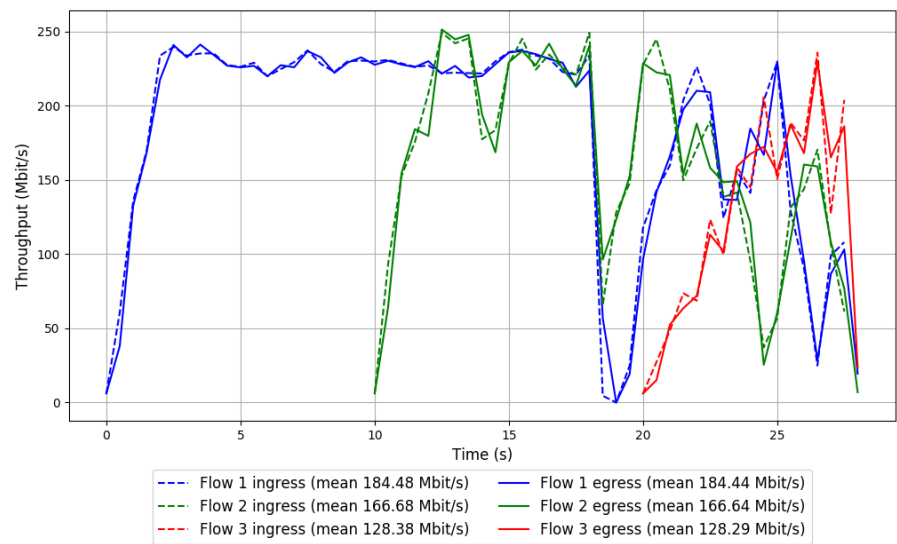


```
Run 5: Statistics of TaoVA-100x

Start at: 2017-11-16 20:12:22
End at: 2017-11-16 20:12:52

# Below is generated by plot.py at 2017-11-16 23:06:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 327.75 Mbit/s
95th percentile per-packet one-way delay: 88.552 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 184.44 Mbit/s
95th percentile per-packet one-way delay: 87.787 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 166.64 Mbit/s
95th percentile per-packet one-way delay: 89.655 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 128.29 Mbit/s
95th percentile per-packet one-way delay: 90.756 ms
Loss rate: 0.07%
```


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

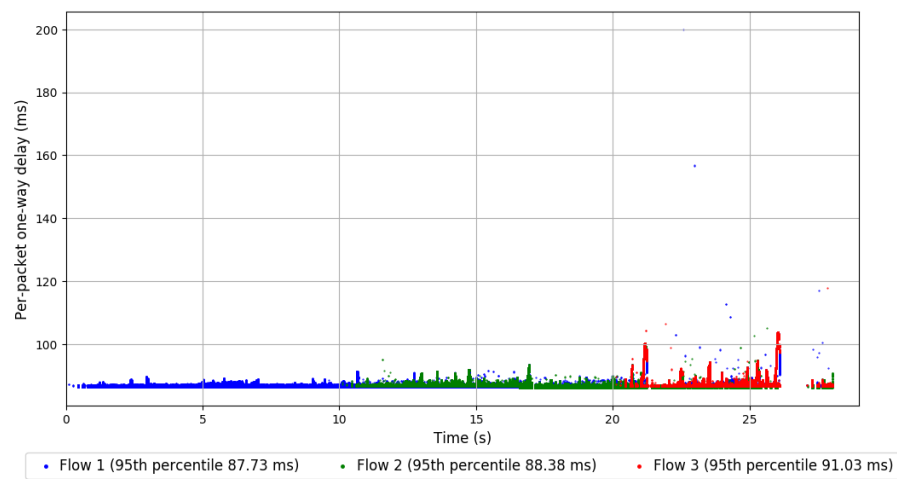
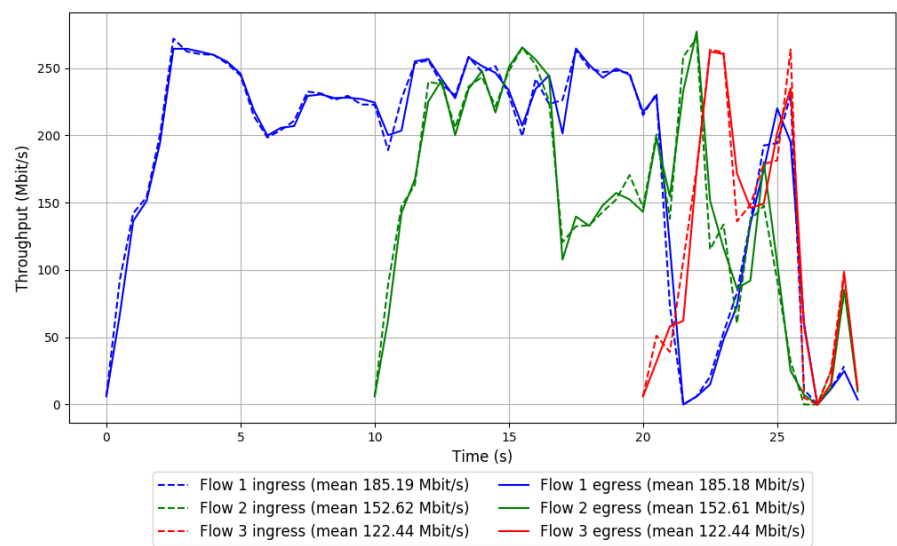


```
Run 6: Statistics of TaoVA-100x

Start at: 2017-11-16 20:25:13
End at: 2017-11-16 20:25:43

# Below is generated by plot.py at 2017-11-16 23:06:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 317.87 Mbit/s
95th percentile per-packet one-way delay: 88.171 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 185.18 Mbit/s
95th percentile per-packet one-way delay: 87.735 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 152.61 Mbit/s
95th percentile per-packet one-way delay: 88.379 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 122.44 Mbit/s
95th percentile per-packet one-way delay: 91.027 ms
Loss rate: 0.00%
```

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-11-16 20:37:45

End at: 2017-11-16 20:38:15

Below is generated by plot.py at 2017-11-16 23:09:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 276.03 Mbit/s

95th percentile per-packet one-way delay: 90.567 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 142.65 Mbit/s

95th percentile per-packet one-way delay: 92.009 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 176.65 Mbit/s

95th percentile per-packet one-way delay: 88.830 ms

Loss rate: 0.01%

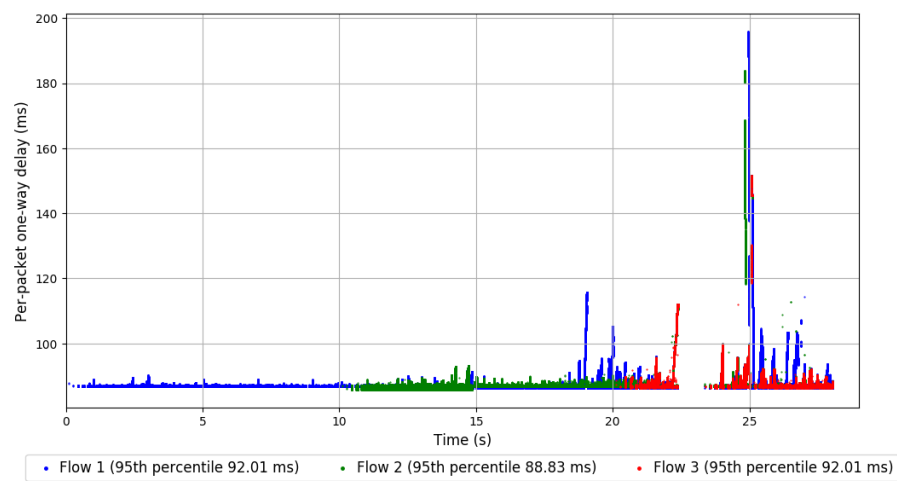
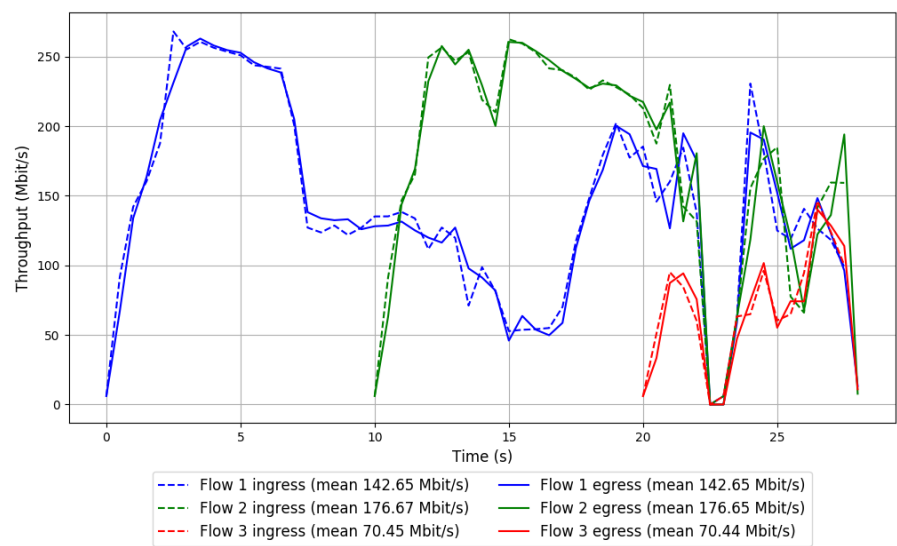
-- Flow 3:

Average throughput: 70.44 Mbit/s

95th percentile per-packet one-way delay: 92.006 ms

Loss rate: 0.01%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-16 20:50:29

End at: 2017-11-16 20:50:59

Below is generated by plot.py at 2017-11-16 23:11:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 354.94 Mbit/s

95th percentile per-packet one-way delay: 89.640 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 183.74 Mbit/s

95th percentile per-packet one-way delay: 87.597 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 207.63 Mbit/s

95th percentile per-packet one-way delay: 91.650 ms

Loss rate: 0.02%

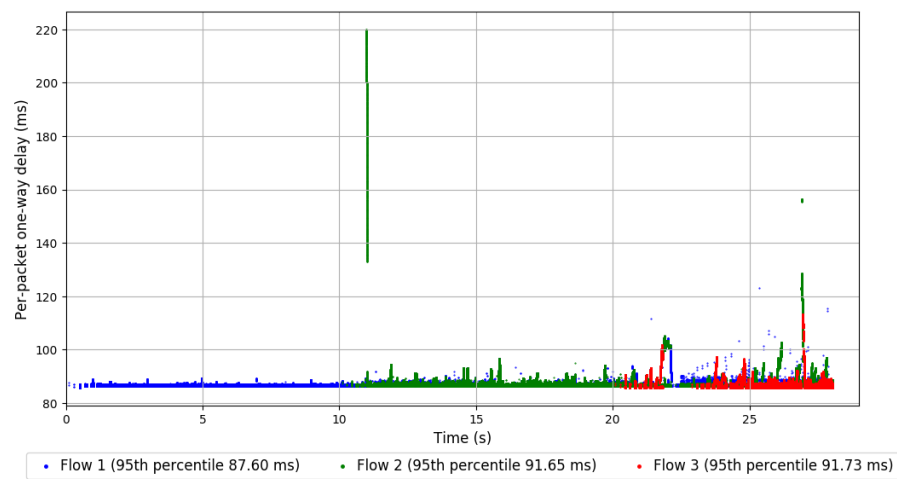
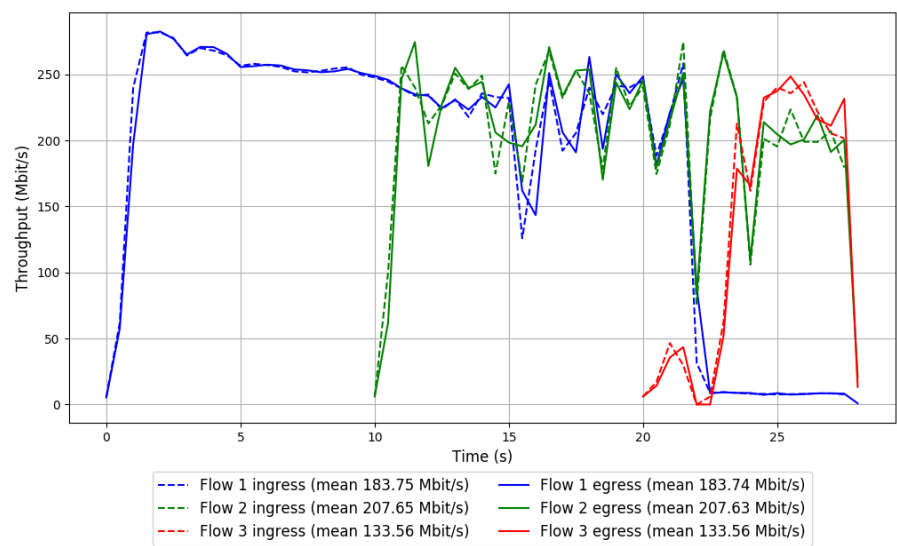
-- Flow 3:

Average throughput: 133.56 Mbit/s

95th percentile per-packet one-way delay: 91.733 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-11-16 21:03:22

End at: 2017-11-16 21:03:52

Below is generated by plot.py at 2017-11-16 23:13:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 313.16 Mbit/s

95th percentile per-packet one-way delay: 88.710 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 186.05 Mbit/s

95th percentile per-packet one-way delay: 87.652 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 146.74 Mbit/s

95th percentile per-packet one-way delay: 89.463 ms

Loss rate: 0.01%

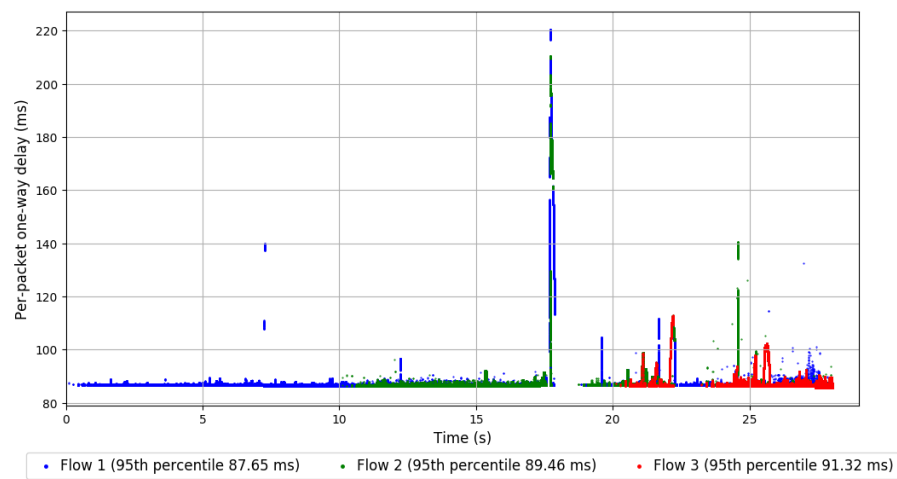
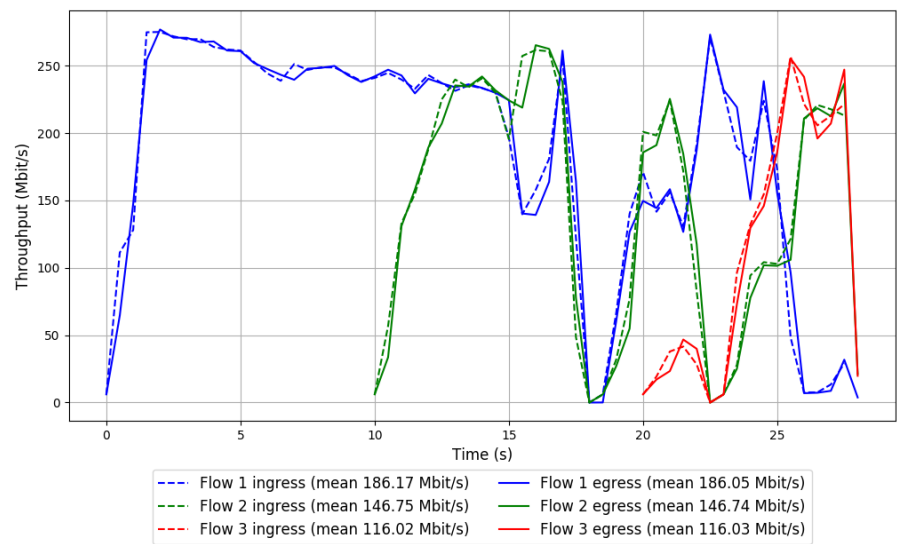
-- Flow 3:

Average throughput: 116.03 Mbit/s

95th percentile per-packet one-way delay: 91.323 ms

Loss rate: 0.00%

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

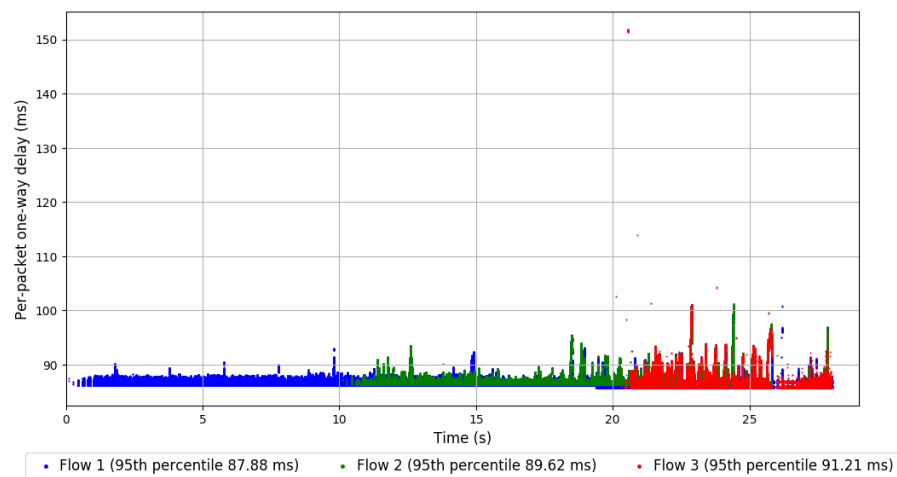
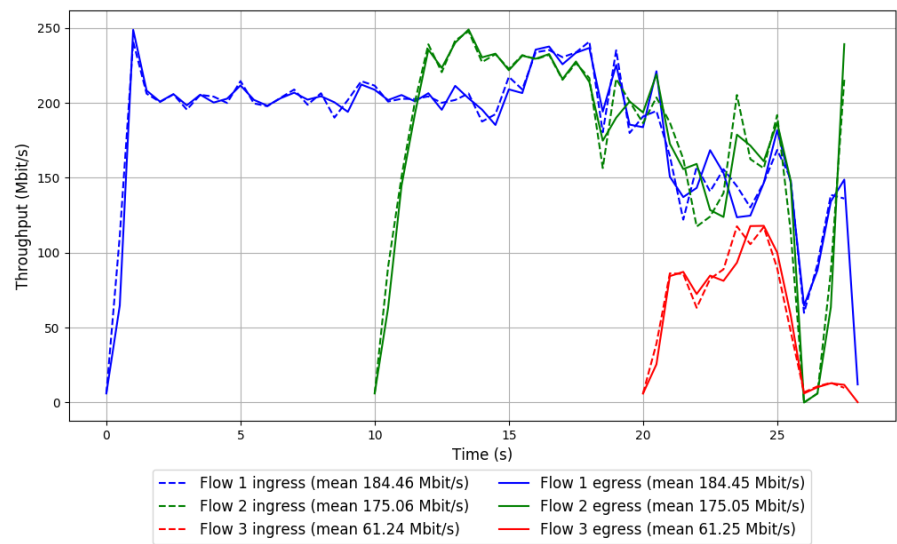


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-11-16 21:16:20
End at: 2017-11-16 21:16:50

# Below is generated by plot.py at 2017-11-16 23:14:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 313.83 Mbit/s
95th percentile per-packet one-way delay: 88.810 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 184.45 Mbit/s
95th percentile per-packet one-way delay: 87.881 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 175.05 Mbit/s
95th percentile per-packet one-way delay: 89.624 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 61.25 Mbit/s
95th percentile per-packet one-way delay: 91.207 ms
Loss rate: 0.00%
```

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

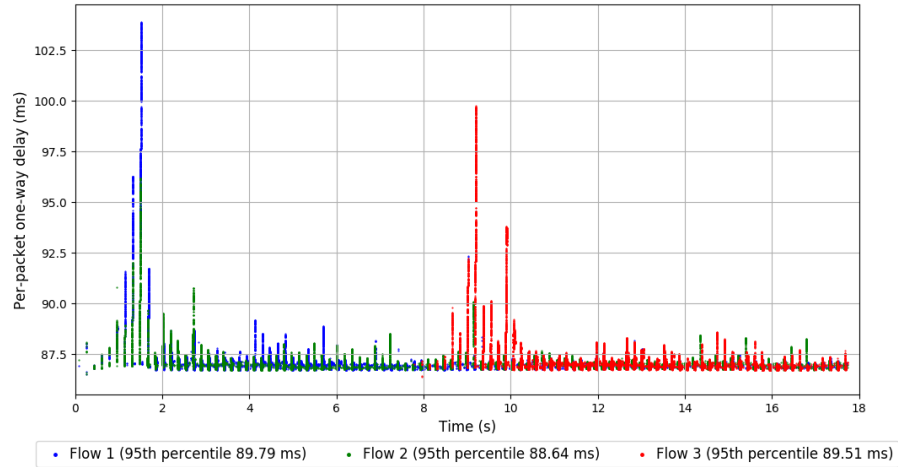
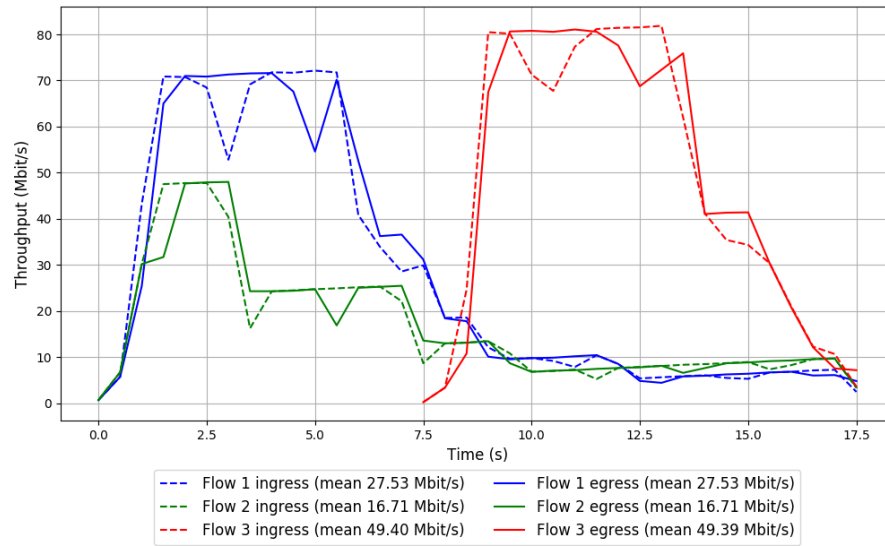


Run 1: Statistics of TCP Vegas

Start at: 2017-11-16 19:33:04

End at: 2017-11-16 19:33:34

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-16 19:45:56

End at: 2017-11-16 19:46:26

Below is generated by plot.py at 2017-11-16 23:14:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.40 Mbit/s

95th percentile per-packet one-way delay: 88.568 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 13.49 Mbit/s

95th percentile per-packet one-way delay: 88.753 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 16.23 Mbit/s

95th percentile per-packet one-way delay: 88.017 ms

Loss rate: 0.02%

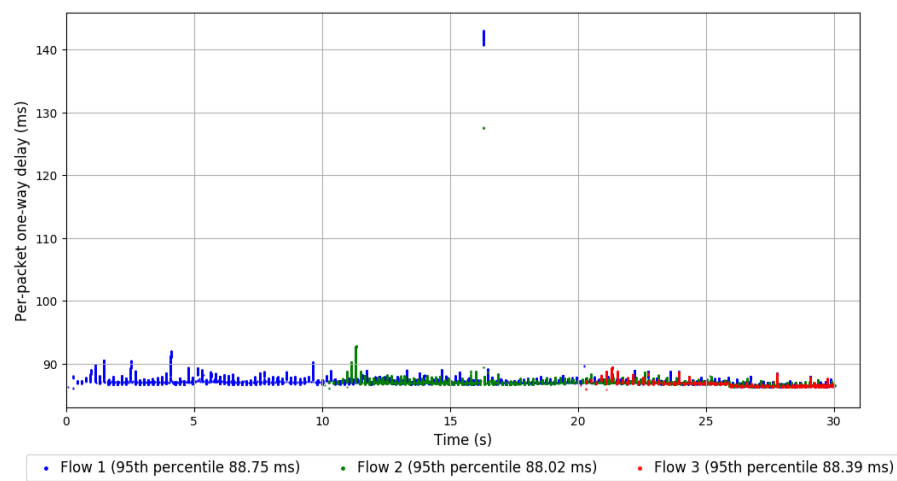
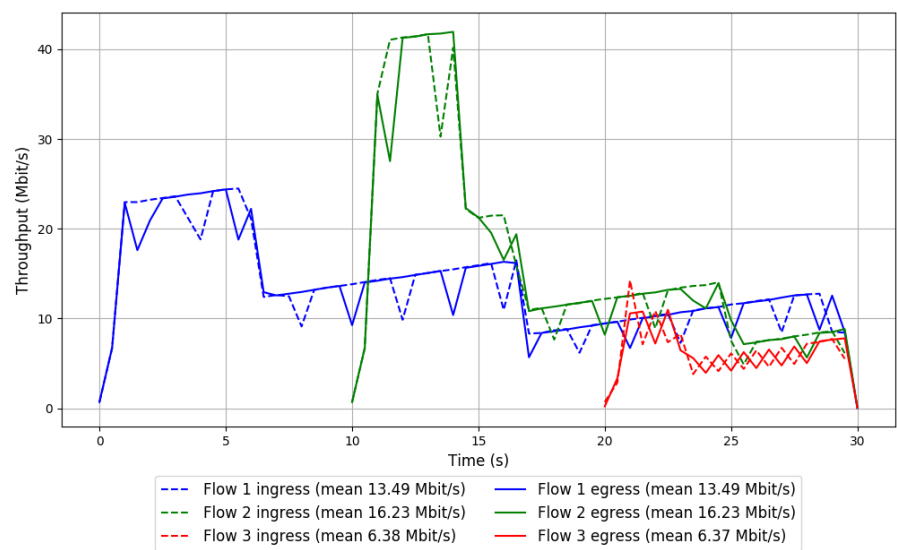
-- Flow 3:

Average throughput: 6.37 Mbit/s

95th percentile per-packet one-way delay: 88.395 ms

Loss rate: 0.04%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-11-16 19:58:51

End at: 2017-11-16 19:59:21

Below is generated by plot.py at 2017-11-16 23:14:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.21 Mbit/s

95th percentile per-packet one-way delay: 95.456 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 8.20 Mbit/s

95th percentile per-packet one-way delay: 87.895 ms

Loss rate: 0.33%

-- Flow 2:

Average throughput: 45.53 Mbit/s

95th percentile per-packet one-way delay: 96.305 ms

Loss rate: 0.48%

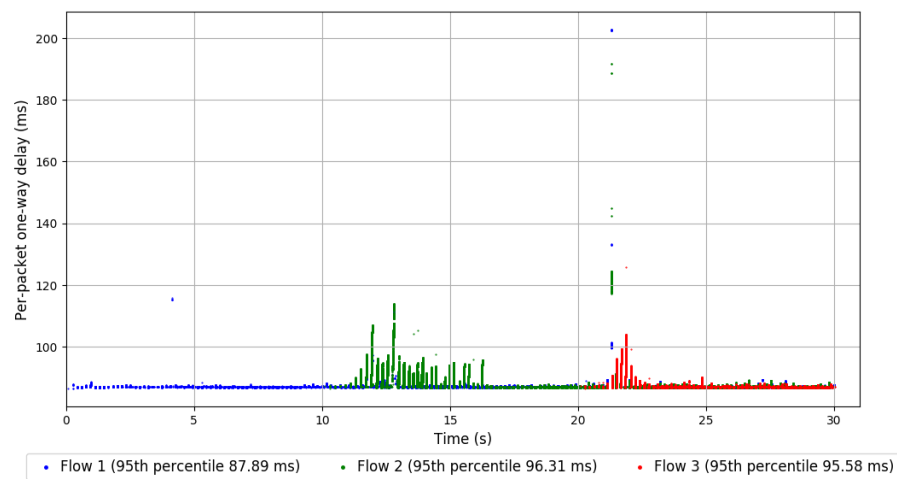
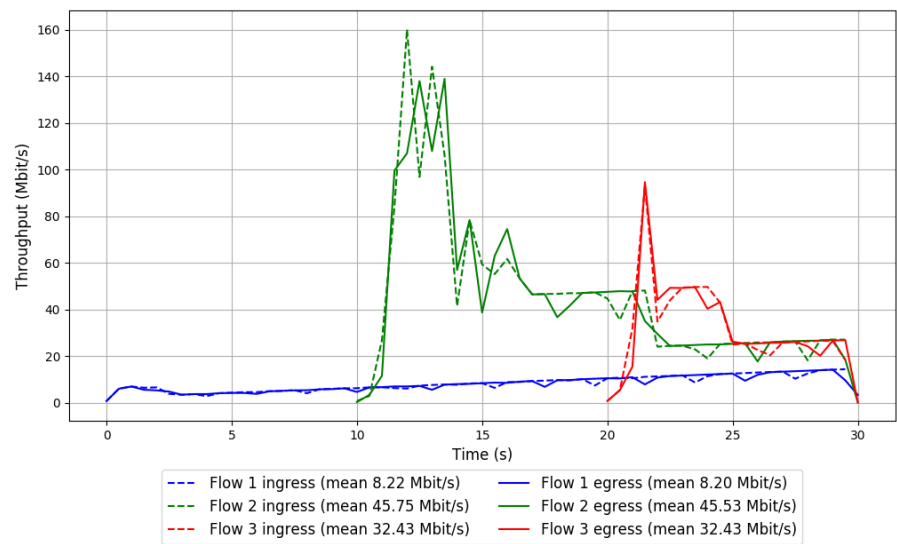
-- Flow 3:

Average throughput: 32.43 Mbit/s

95th percentile per-packet one-way delay: 95.583 ms

Loss rate: 0.01%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-16 20:11:33

End at: 2017-11-16 20:12:03

Below is generated by plot.py at 2017-11-16 23:14:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.61 Mbit/s

95th percentile per-packet one-way delay: 88.240 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 25.93 Mbit/s

95th percentile per-packet one-way delay: 87.991 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.75 Mbit/s

95th percentile per-packet one-way delay: 88.044 ms

Loss rate: 0.00%

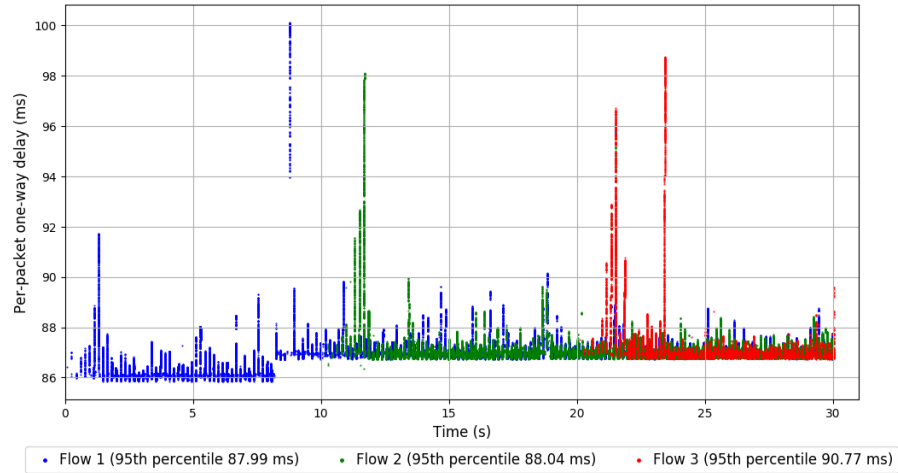
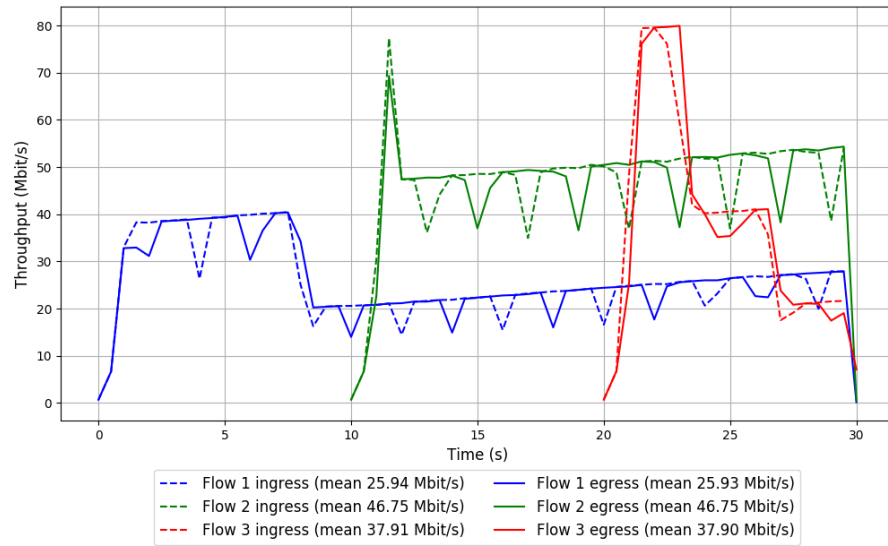
-- Flow 3:

Average throughput: 37.90 Mbit/s

95th percentile per-packet one-way delay: 90.774 ms

Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-11-16 20:24:26

End at: 2017-11-16 20:24:56

Below is generated by plot.py at 2017-11-16 23:14:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.74 Mbit/s

95th percentile per-packet one-way delay: 88.741 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 21.13 Mbit/s

95th percentile per-packet one-way delay: 89.397 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 24.19 Mbit/s

95th percentile per-packet one-way delay: 88.211 ms

Loss rate: 0.00%

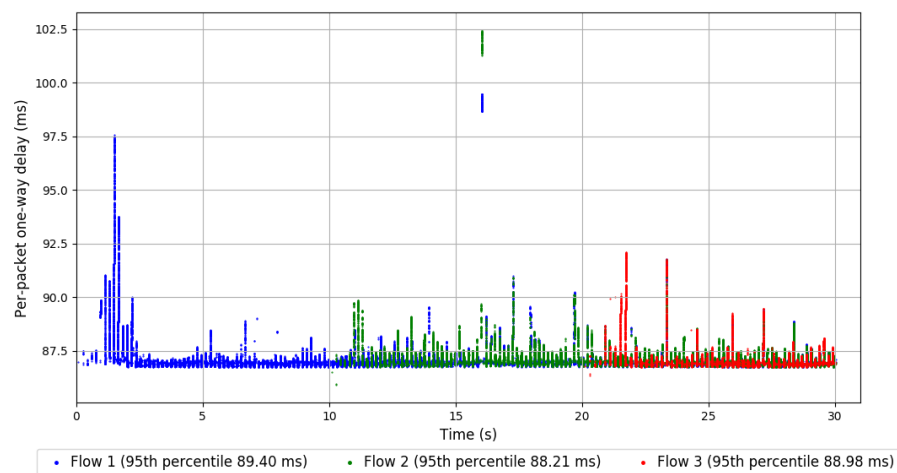
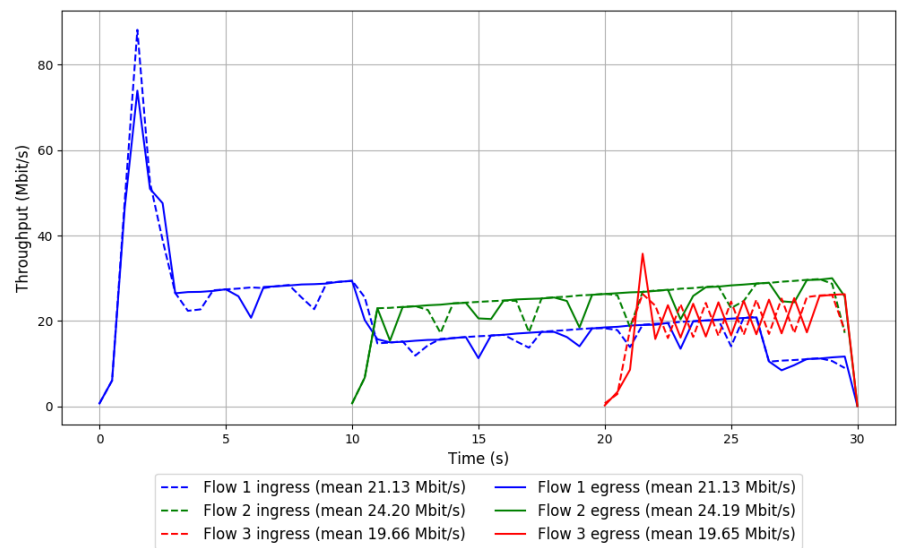
-- Flow 3:

Average throughput: 19.65 Mbit/s

95th percentile per-packet one-way delay: 88.979 ms

Loss rate: 0.01%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-16 20:36:59

End at: 2017-11-16 20:37:29

Below is generated by plot.py at 2017-11-16 23:14:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 27.07 Mbit/s

95th percentile per-packet one-way delay: 88.730 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 14.87 Mbit/s

95th percentile per-packet one-way delay: 88.984 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 5.91 Mbit/s

95th percentile per-packet one-way delay: 87.605 ms

Loss rate: 0.06%

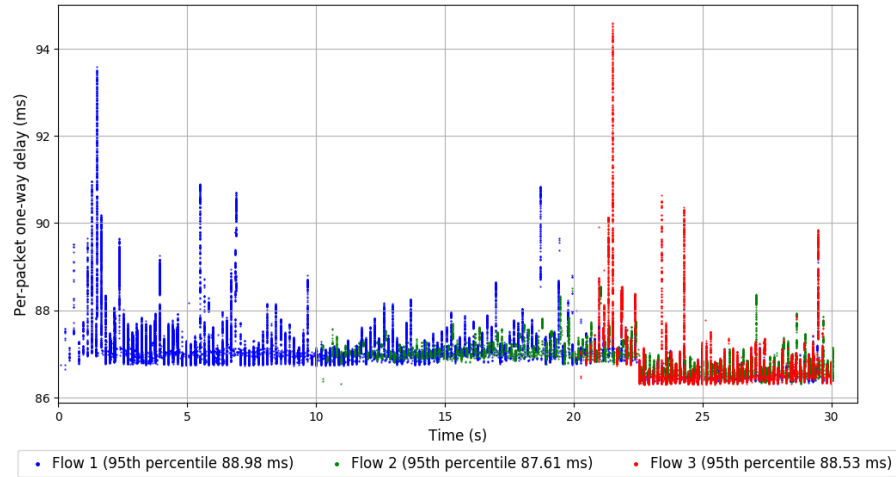
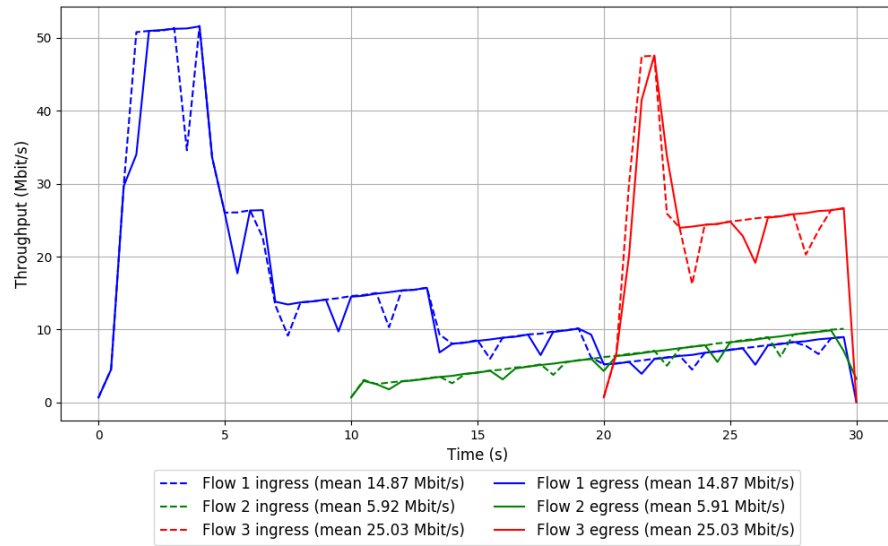
-- Flow 3:

Average throughput: 25.03 Mbit/s

95th percentile per-packet one-way delay: 88.532 ms

Loss rate: 0.01%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-11-16 20:49:43

End at: 2017-11-16 20:50:13

Below is generated by plot.py at 2017-11-16 23:14:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 34.92 Mbit/s

95th percentile per-packet one-way delay: 88.223 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 10.71 Mbit/s

95th percentile per-packet one-way delay: 88.286 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 26.33 Mbit/s

95th percentile per-packet one-way delay: 88.175 ms

Loss rate: 0.01%

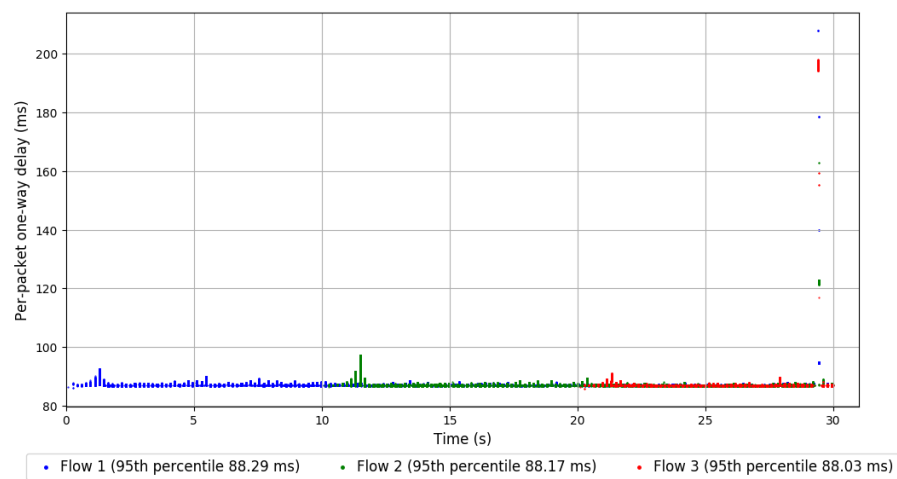
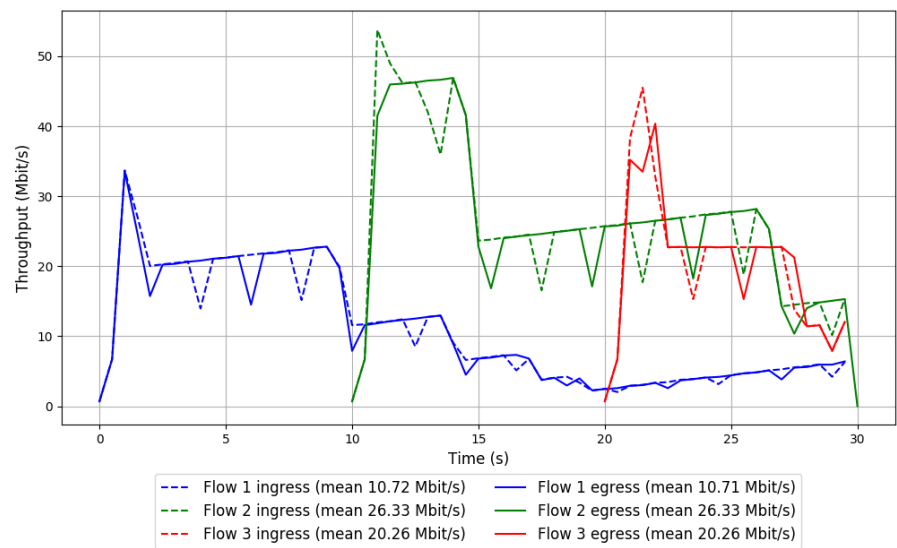
-- Flow 3:

Average throughput: 20.26 Mbit/s

95th percentile per-packet one-way delay: 88.034 ms

Loss rate: 0.01%

Run 7: Report of TCP Vegas — Data Link

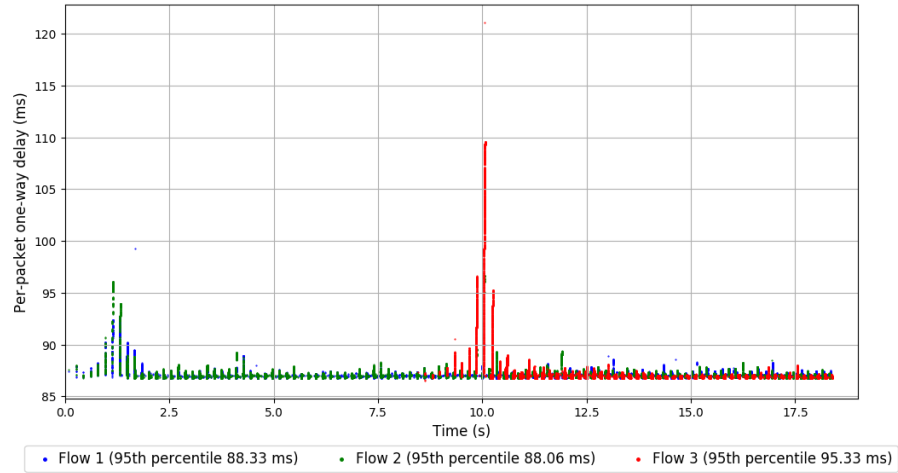
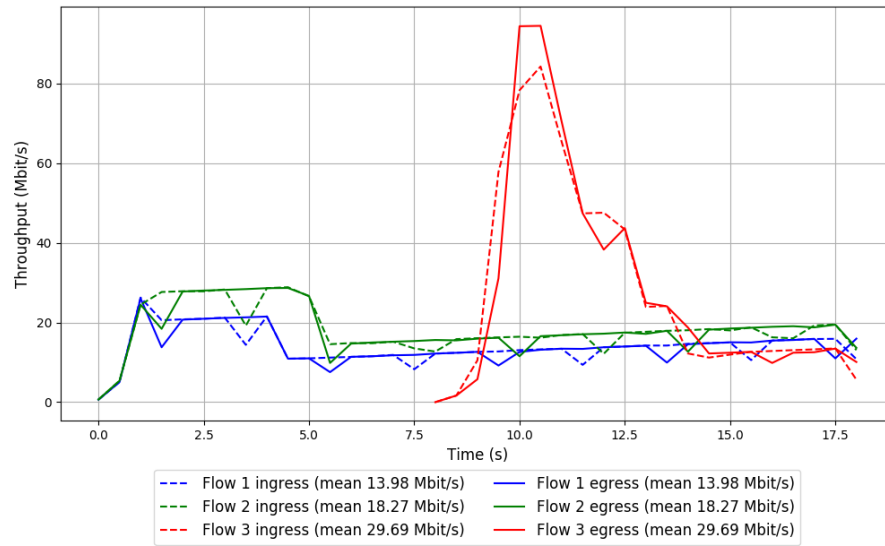


Run 8: Statistics of TCP Vegas

Start at: 2017-11-16 21:02:36

End at: 2017-11-16 21:03:06

Run 8: Report of TCP Vegas — Data Link

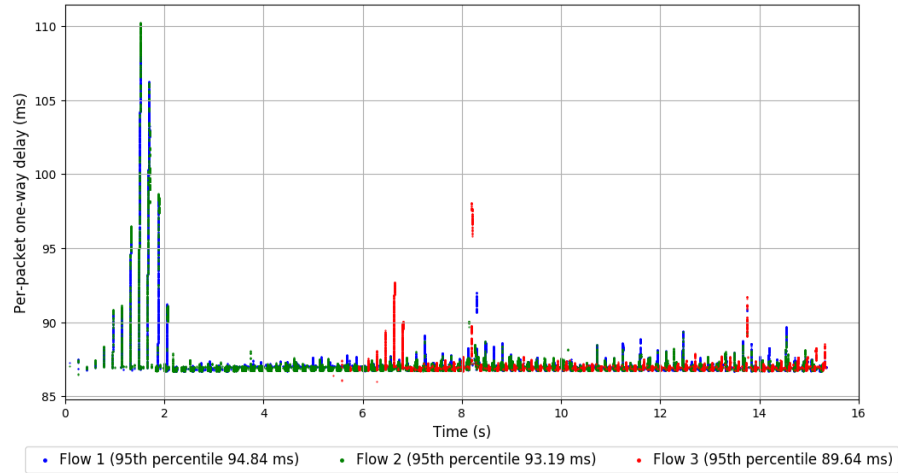
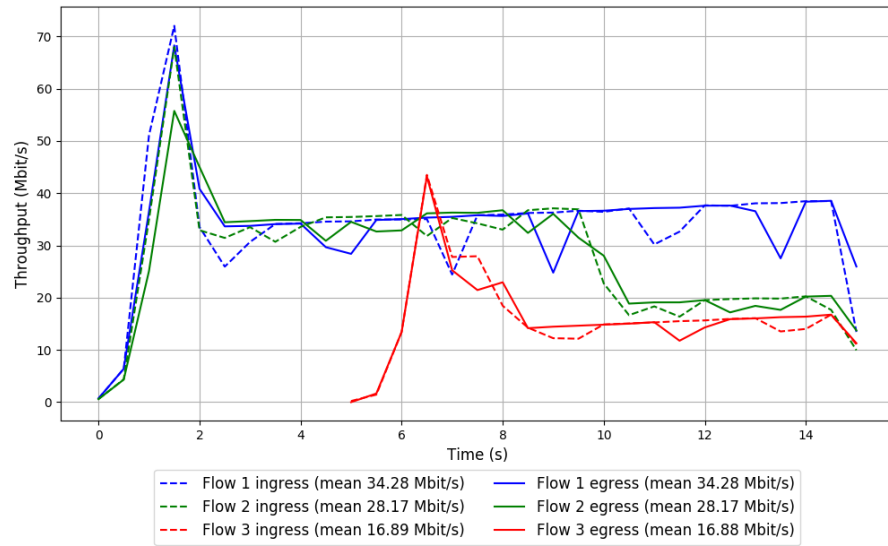


Run 9: Statistics of TCP Vegas

Start at: 2017-11-16 21:15:33

End at: 2017-11-16 21:16:03

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-16 21:28:34

End at: 2017-11-16 21:29:04

Below is generated by plot.py at 2017-11-16 23:14:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.63 Mbit/s

95th percentile per-packet one-way delay: 91.391 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 21.46 Mbit/s

95th percentile per-packet one-way delay: 94.432 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 24.35 Mbit/s

95th percentile per-packet one-way delay: 88.933 ms

Loss rate: 0.01%

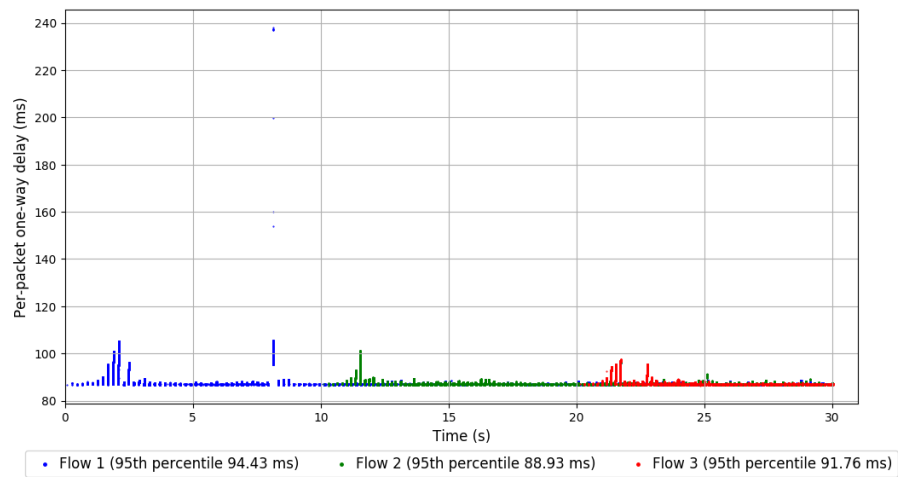
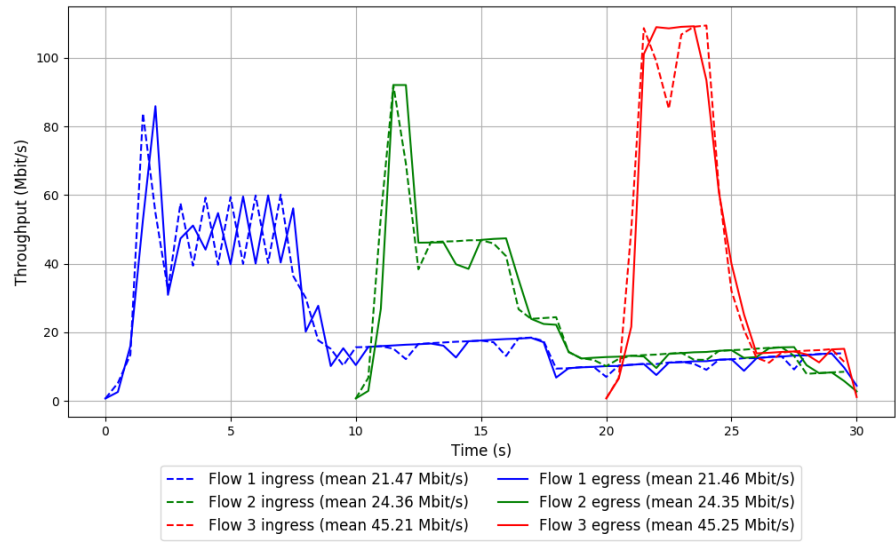
-- Flow 3:

Average throughput: 45.25 Mbit/s

95th percentile per-packet one-way delay: 91.763 ms

Loss rate: 0.01%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-11-16 19:26:49

End at: 2017-11-16 19:27:19

Below is generated by plot.py at 2017-11-16 23:14:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 322.72 Mbit/s

95th percentile per-packet one-way delay: 194.411 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 227.91 Mbit/s

95th percentile per-packet one-way delay: 165.642 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 135.15 Mbit/s

95th percentile per-packet one-way delay: 251.156 ms

Loss rate: 2.80%

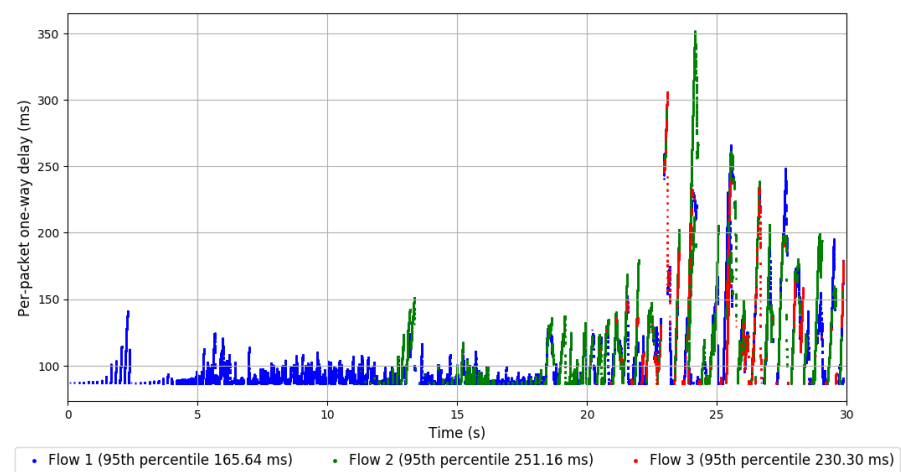
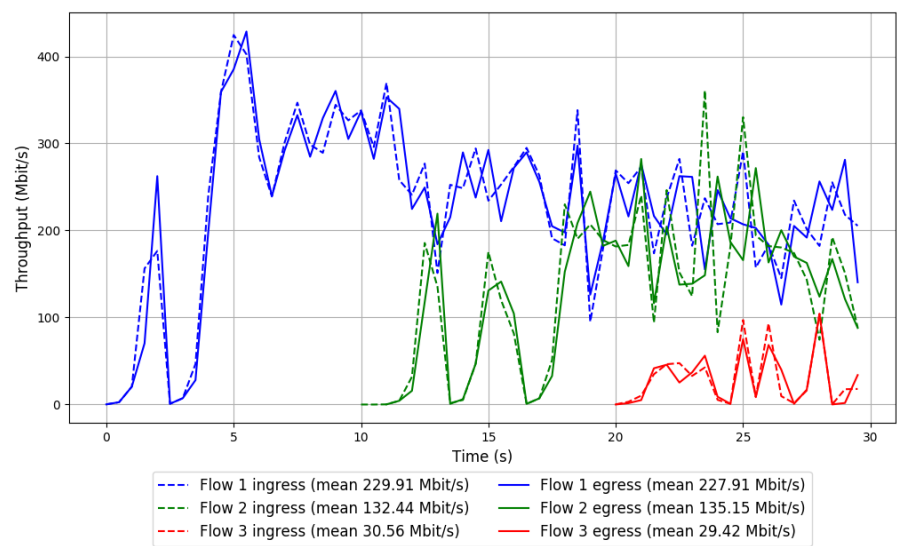
-- Flow 3:

Average throughput: 29.42 Mbit/s

95th percentile per-packet one-way delay: 230.304 ms

Loss rate: 2.96%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-16 19:39:43

End at: 2017-11-16 19:40:13

Below is generated by plot.py at 2017-11-16 23:14:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 274.92 Mbit/s

95th percentile per-packet one-way delay: 304.402 ms

Loss rate: 4.29%

-- Flow 1:

Average throughput: 171.05 Mbit/s

95th percentile per-packet one-way delay: 221.055 ms

Loss rate: 4.33%

-- Flow 2:

Average throughput: 141.17 Mbit/s

95th percentile per-packet one-way delay: 344.742 ms

Loss rate: 4.39%

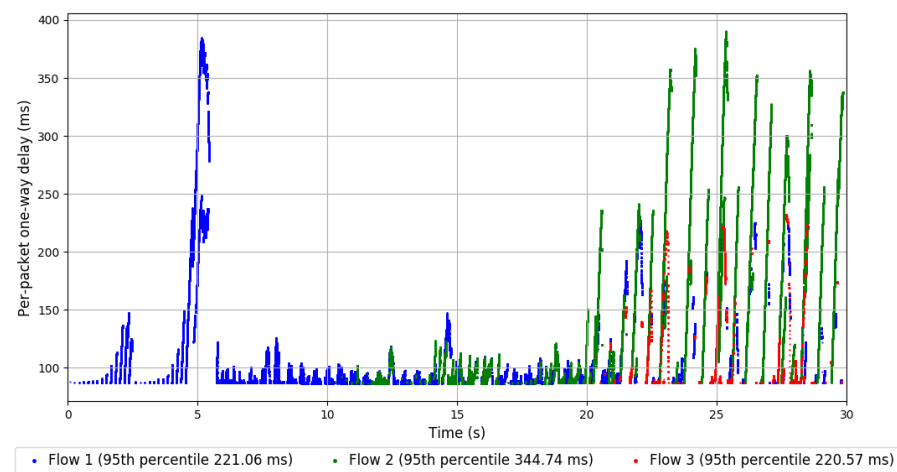
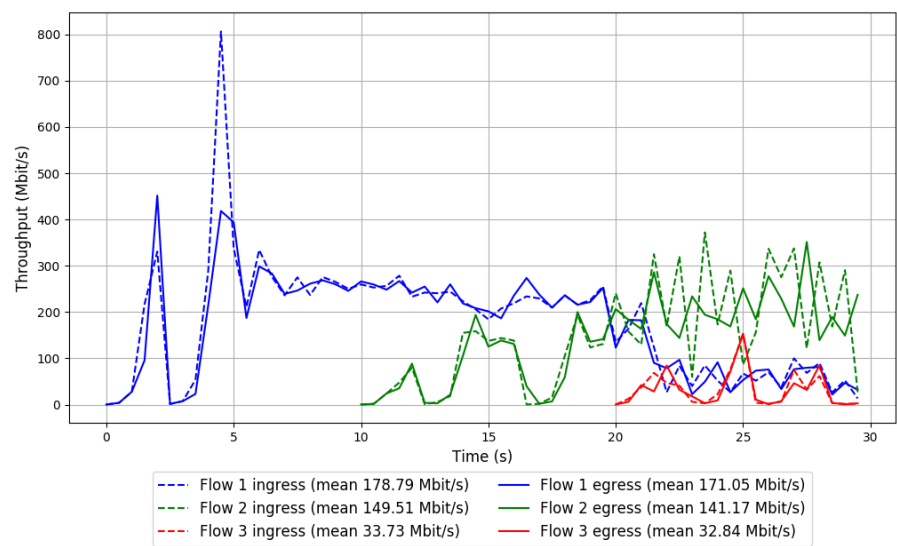
-- Flow 3:

Average throughput: 32.84 Mbit/s

95th percentile per-packet one-way delay: 220.571 ms

Loss rate: 2.63%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-16 19:52:38

End at: 2017-11-16 19:53:08

Below is generated by plot.py at 2017-11-16 23:14:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 313.82 Mbit/s

95th percentile per-packet one-way delay: 261.440 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 246.07 Mbit/s

95th percentile per-packet one-way delay: 270.122 ms

Loss rate: 1.38%

-- Flow 2:

Average throughput: 90.93 Mbit/s

95th percentile per-packet one-way delay: 213.238 ms

Loss rate: 0.81%

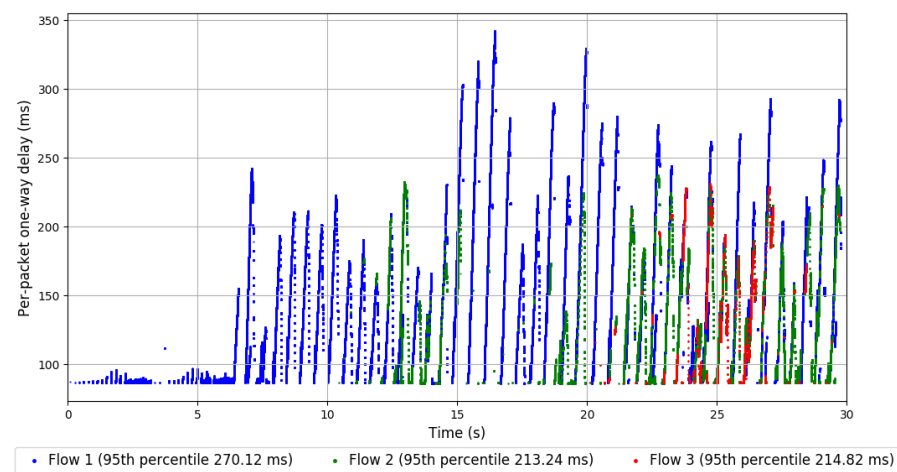
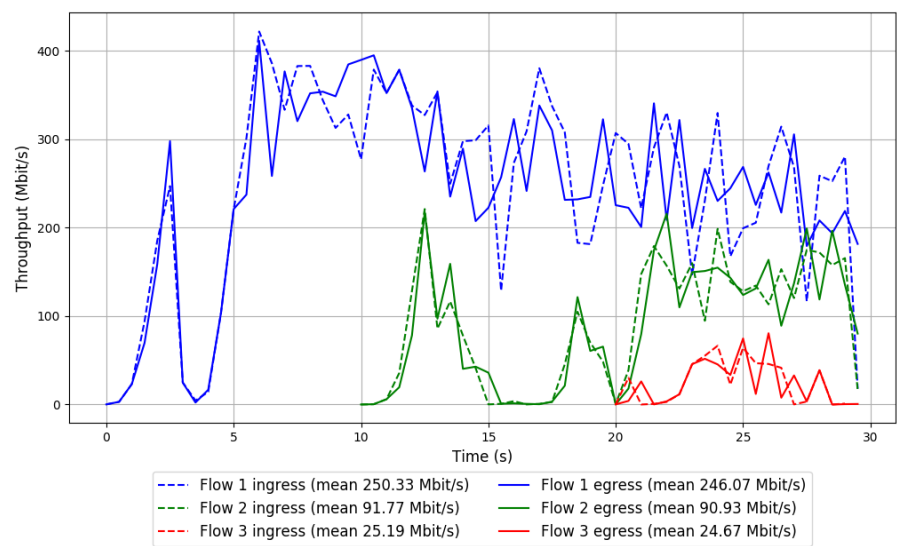
-- Flow 3:

Average throughput: 24.67 Mbit/s

95th percentile per-packet one-way delay: 214.823 ms

Loss rate: 0.82%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-16 20:05:25

End at: 2017-11-16 20:05:55

Below is generated by plot.py at 2017-11-16 23:14:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 170.89 Mbit/s

95th percentile per-packet one-way delay: 179.475 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 76.17 Mbit/s

95th percentile per-packet one-way delay: 143.365 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 128.19 Mbit/s

95th percentile per-packet one-way delay: 199.856 ms

Loss rate: 0.02%

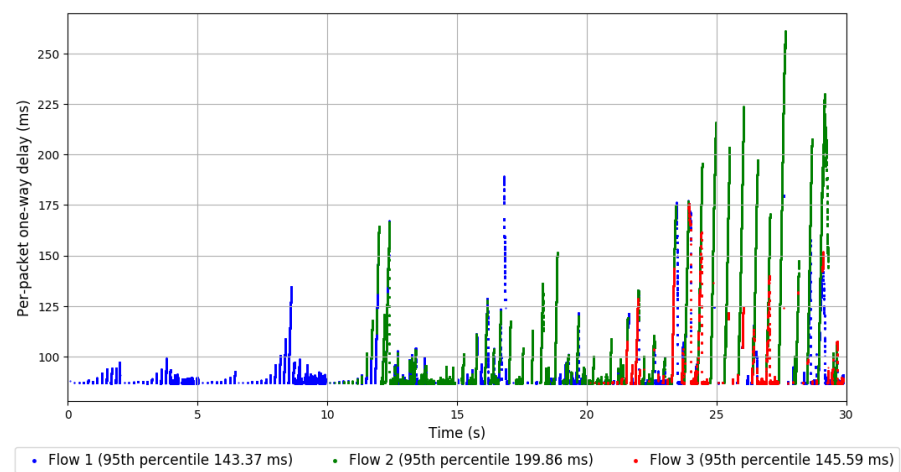
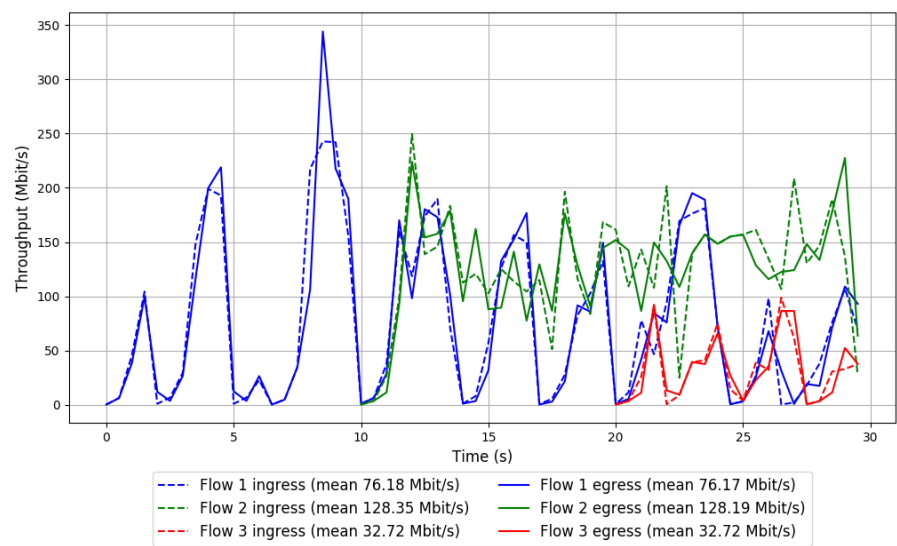
-- Flow 3:

Average throughput: 32.72 Mbit/s

95th percentile per-packet one-way delay: 145.593 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-16 20:18:15

End at: 2017-11-16 20:18:45

Below is generated by plot.py at 2017-11-16 23:14:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 303.51 Mbit/s

95th percentile per-packet one-way delay: 160.110 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 250.98 Mbit/s

95th percentile per-packet one-way delay: 155.028 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 57.92 Mbit/s

95th percentile per-packet one-way delay: 194.869 ms

Loss rate: 0.01%

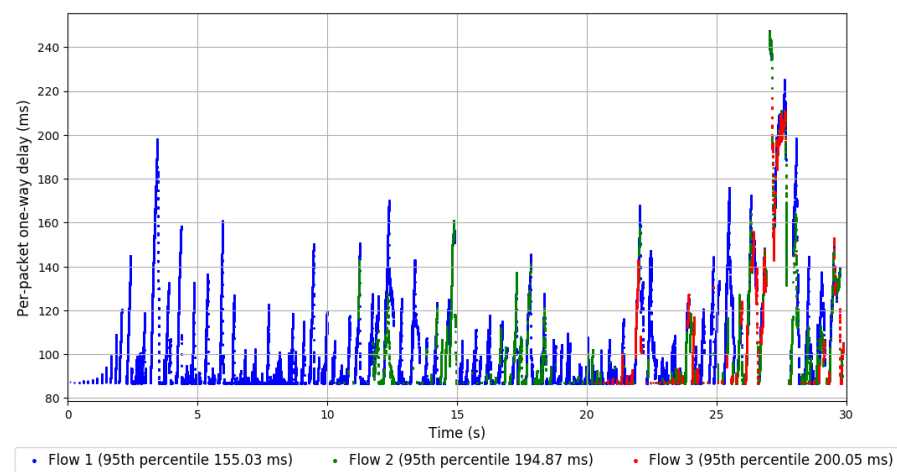
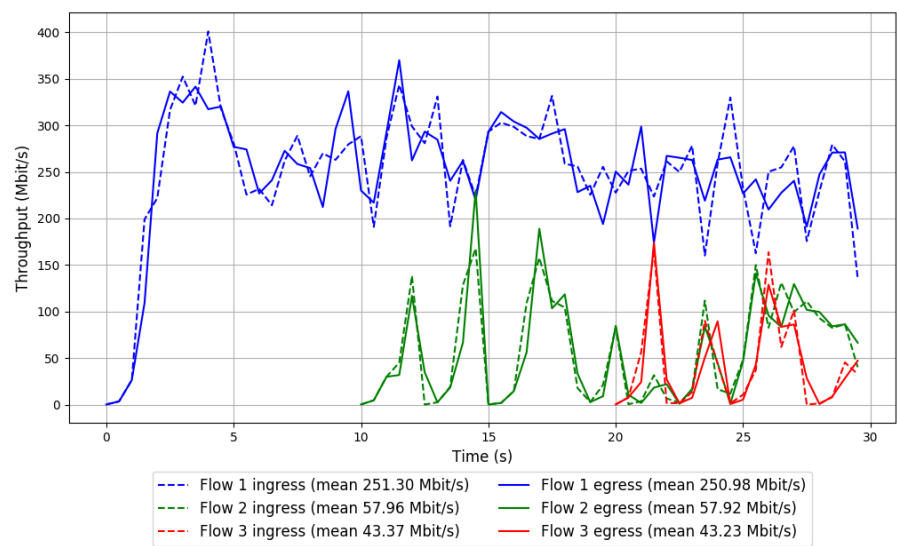
-- Flow 3:

Average throughput: 43.23 Mbit/s

95th percentile per-packet one-way delay: 200.051 ms

Loss rate: 0.31%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-11-16 20:30:51

End at: 2017-11-16 20:31:21

Below is generated by plot.py at 2017-11-16 23:14:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 244.27 Mbit/s

95th percentile per-packet one-way delay: 141.087 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 157.35 Mbit/s

95th percentile per-packet one-way delay: 129.598 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 83.52 Mbit/s

95th percentile per-packet one-way delay: 137.193 ms

Loss rate: 0.16%

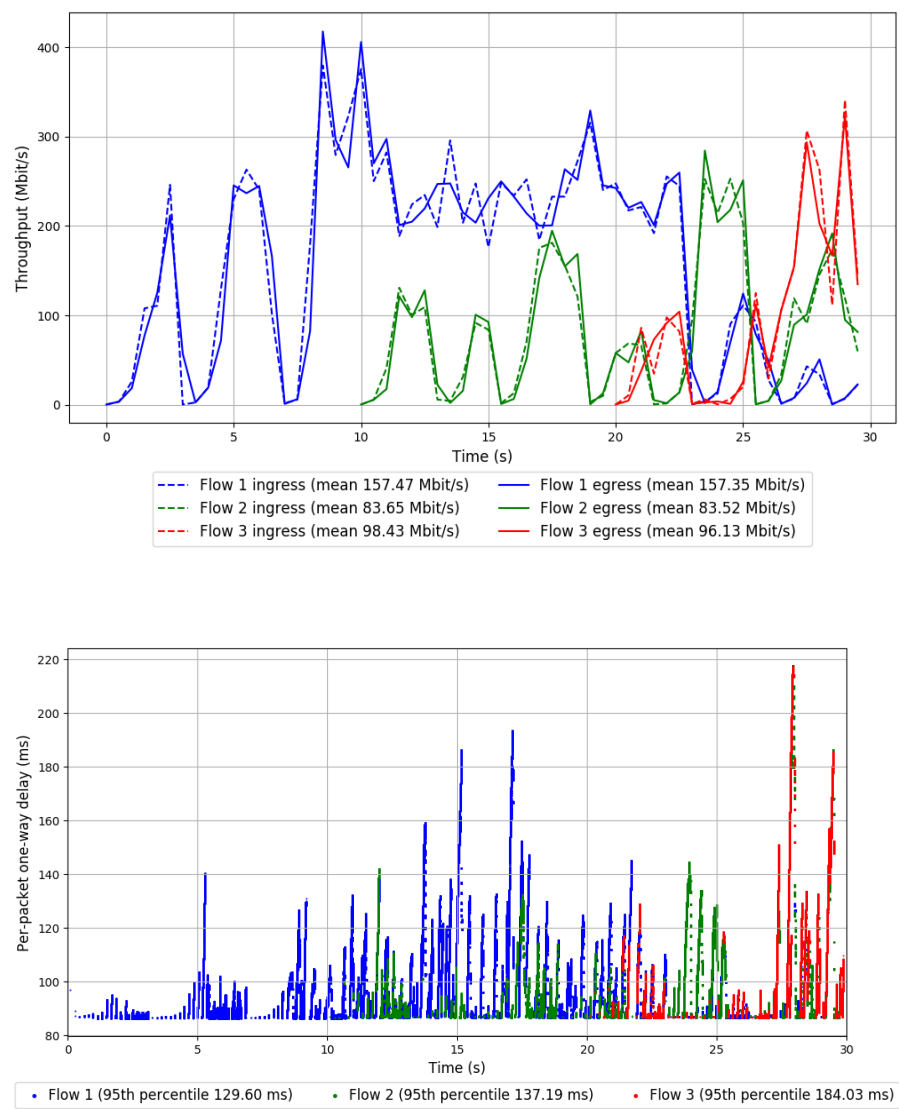
-- Flow 3:

Average throughput: 96.13 Mbit/s

95th percentile per-packet one-way delay: 184.031 ms

Loss rate: 2.34%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-16 20:43:34

End at: 2017-11-16 20:44:04

Below is generated by plot.py at 2017-11-16 23:15:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 216.45 Mbit/s

95th percentile per-packet one-way delay: 236.414 ms

Loss rate: 1.73%

-- Flow 1:

Average throughput: 111.69 Mbit/s

95th percentile per-packet one-way delay: 258.111 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 127.20 Mbit/s

95th percentile per-packet one-way delay: 186.322 ms

Loss rate: 0.15%

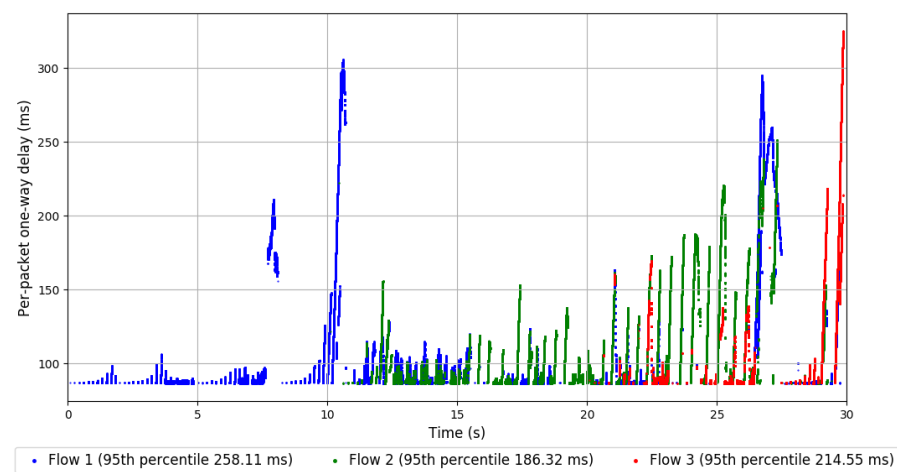
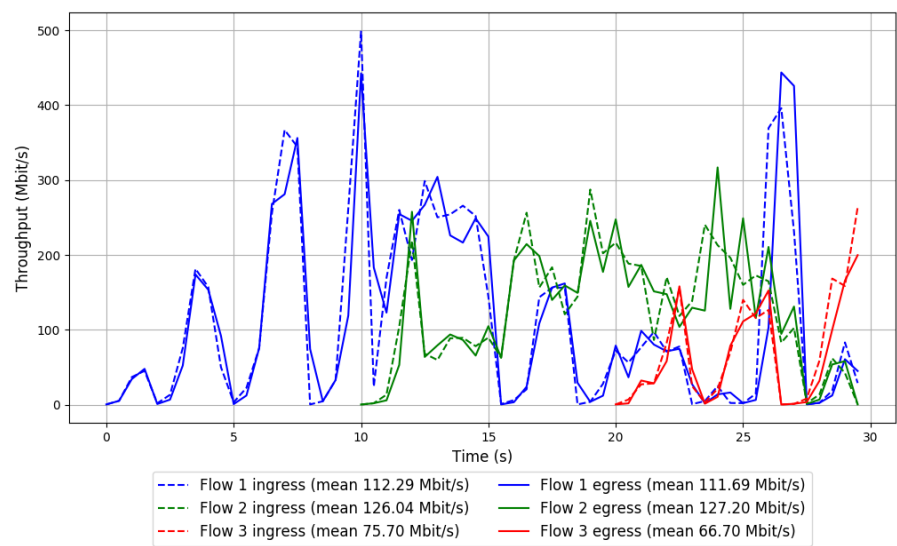
-- Flow 3:

Average throughput: 66.70 Mbit/s

95th percentile per-packet one-way delay: 214.547 ms

Loss rate: 10.76%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-11-16 20:56:22

End at: 2017-11-16 20:56:52

Below is generated by plot.py at 2017-11-16 23:17:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 294.52 Mbit/s

95th percentile per-packet one-way delay: 169.573 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 242.05 Mbit/s

95th percentile per-packet one-way delay: 168.953 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 51.54 Mbit/s

95th percentile per-packet one-way delay: 173.334 ms

Loss rate: 0.39%

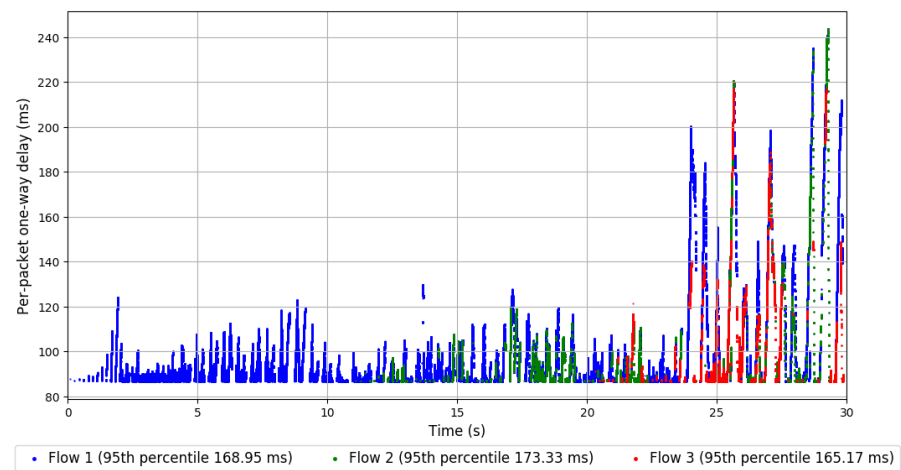
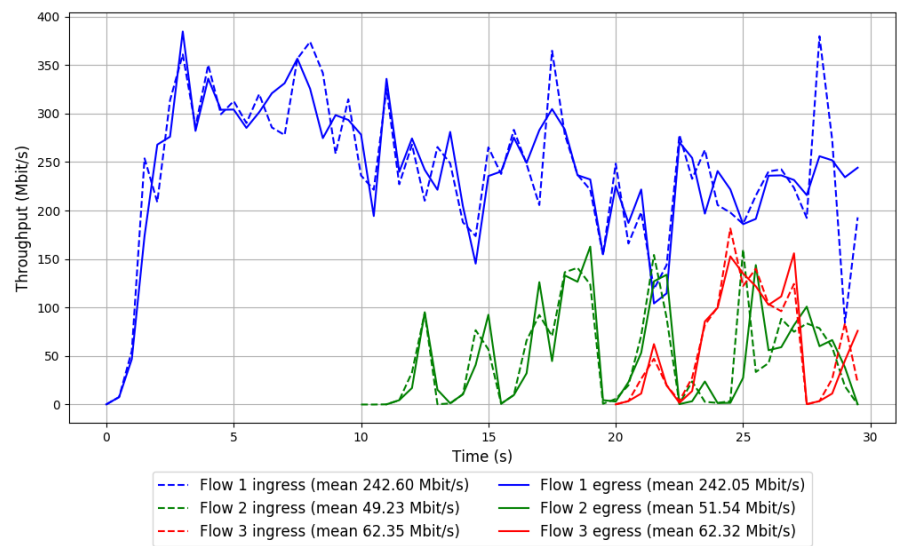
-- Flow 3:

Average throughput: 62.32 Mbit/s

95th percentile per-packet one-way delay: 165.174 ms

Loss rate: 0.04%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-11-16 21:09:17

End at: 2017-11-16 21:09:47

Below is generated by plot.py at 2017-11-16 23:18:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 341.09 Mbit/s

95th percentile per-packet one-way delay: 294.158 ms

Loss rate: 8.11%

-- Flow 1:

Average throughput: 215.20 Mbit/s

95th percentile per-packet one-way delay: 241.916 ms

Loss rate: 4.98%

-- Flow 2:

Average throughput: 184.40 Mbit/s

95th percentile per-packet one-way delay: 345.075 ms

Loss rate: 13.38%

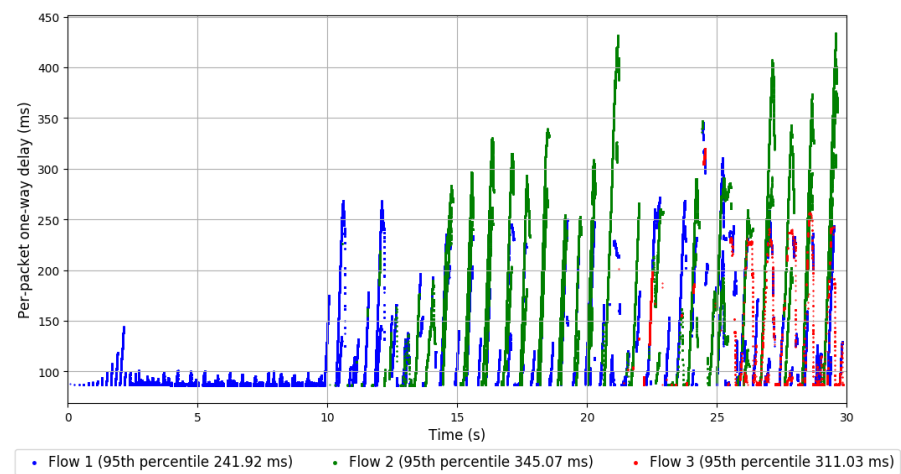
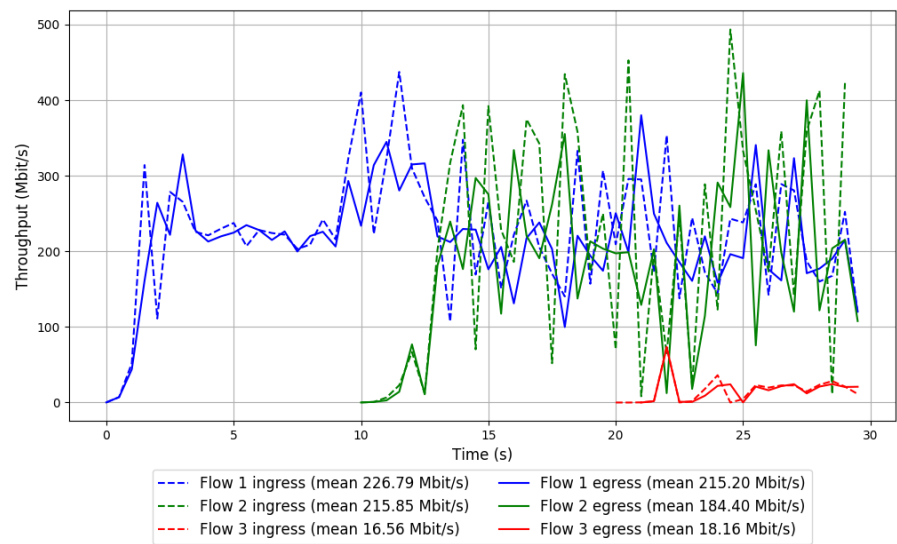
-- Flow 3:

Average throughput: 18.16 Mbit/s

95th percentile per-packet one-way delay: 311.031 ms

Loss rate: 2.82%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-16 21:22:17

End at: 2017-11-16 21:22:47

Below is generated by plot.py at 2017-11-16 23:18:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 315.89 Mbit/s

95th percentile per-packet one-way delay: 268.141 ms

Loss rate: 1.66%

-- Flow 1:

Average throughput: 268.48 Mbit/s

95th percentile per-packet one-way delay: 274.451 ms

Loss rate: 1.65%

-- Flow 2:

Average throughput: 42.44 Mbit/s

95th percentile per-packet one-way delay: 211.270 ms

Loss rate: 0.74%

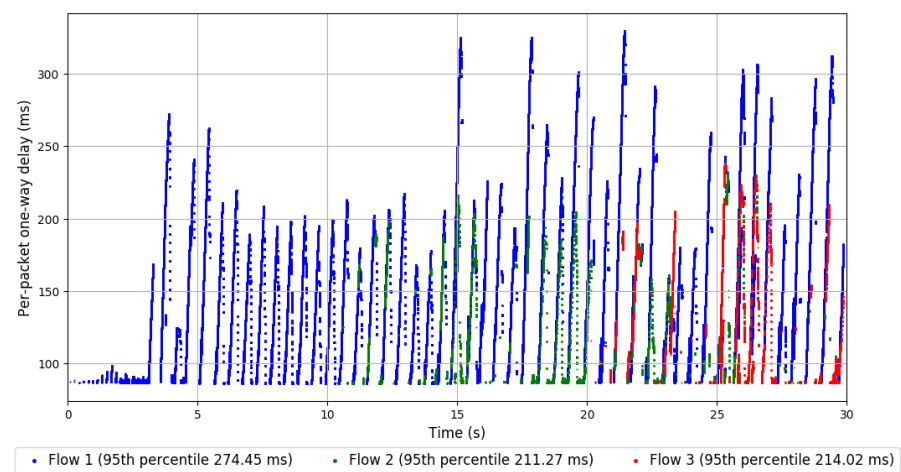
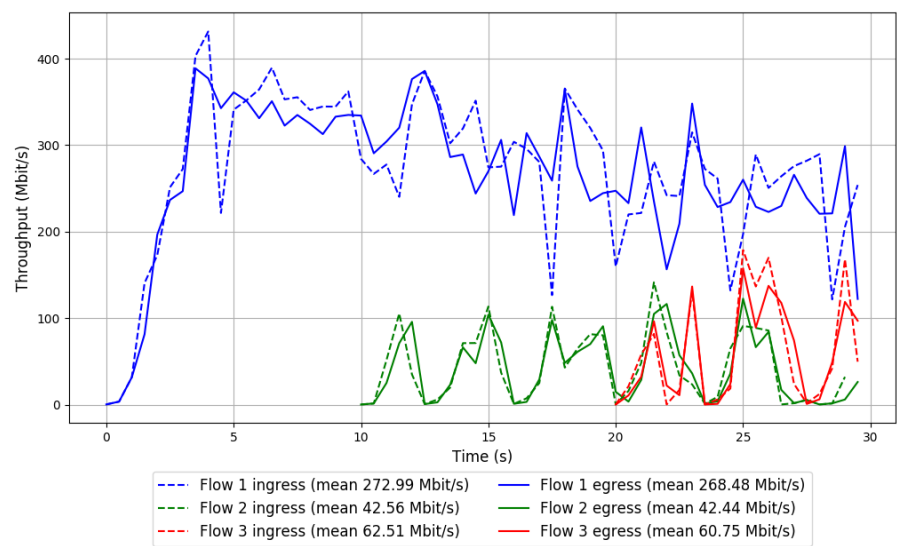
-- Flow 3:

Average throughput: 60.75 Mbit/s

95th percentile per-packet one-way delay: 214.020 ms

Loss rate: 3.08%

Run 10: Report of Verus — Data Link

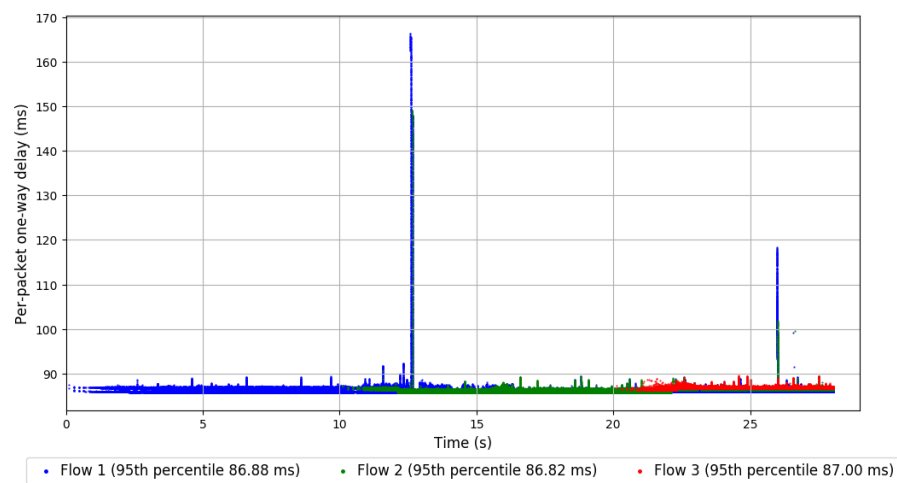
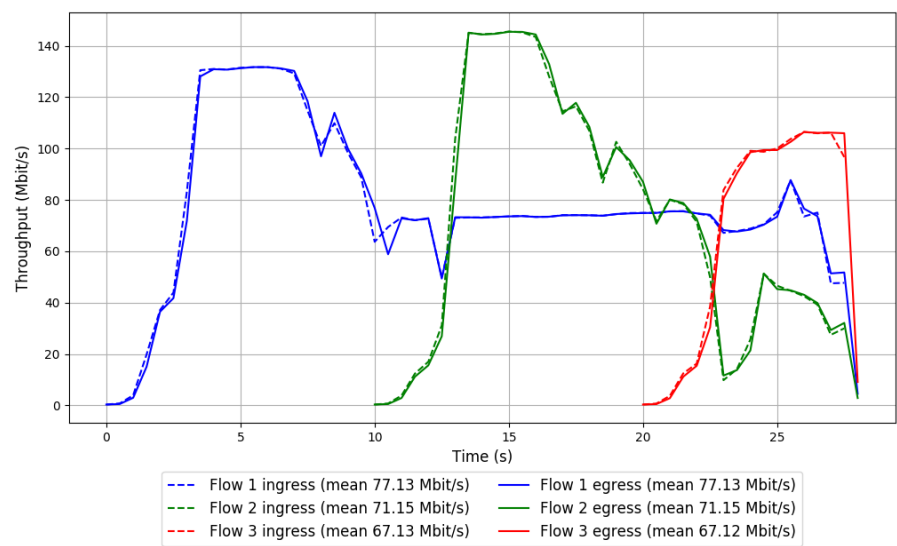


```
Run 1: Statistics of Copa

Start at: 2017-11-16 19:30:57
End at: 2017-11-16 19:31:27

# Below is generated by plot.py at 2017-11-16 23:18:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 141.85 Mbit/s
95th percentile per-packet one-way delay: 86.899 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 77.13 Mbit/s
95th percentile per-packet one-way delay: 86.877 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 71.15 Mbit/s
95th percentile per-packet one-way delay: 86.820 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 67.12 Mbit/s
95th percentile per-packet one-way delay: 87.003 ms
Loss rate: 0.01%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-11-16 19:43:48

End at: 2017-11-16 19:44:18

Below is generated by plot.py at 2017-11-16 23:18:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 143.24 Mbit/s

95th percentile per-packet one-way delay: 86.910 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 76.18 Mbit/s

95th percentile per-packet one-way delay: 86.895 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 79.44 Mbit/s

95th percentile per-packet one-way delay: 86.920 ms

Loss rate: 0.01%

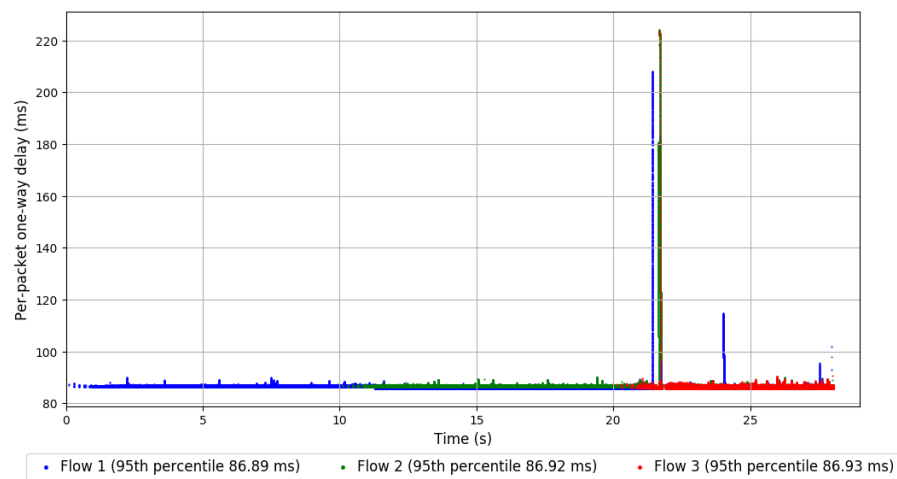
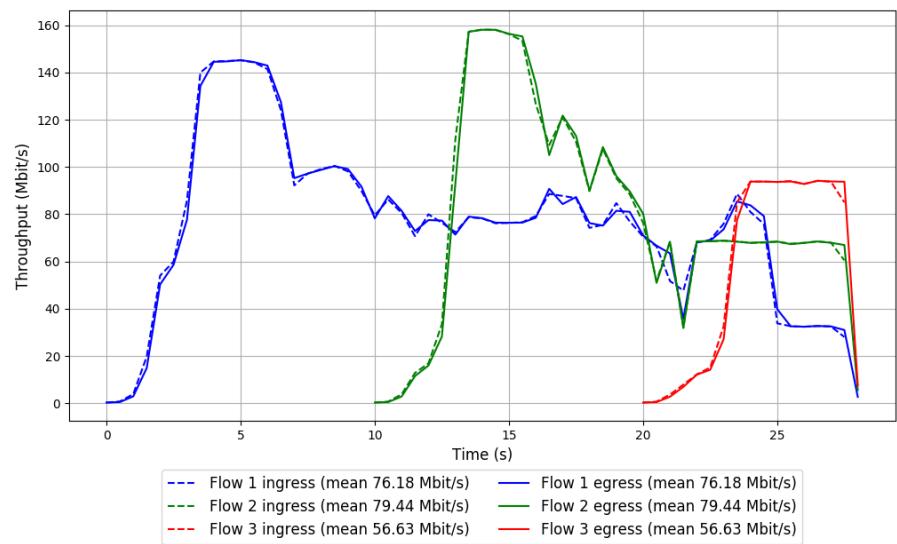
-- Flow 3:

Average throughput: 56.63 Mbit/s

95th percentile per-packet one-way delay: 86.932 ms

Loss rate: 0.01%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-16 19:56:47

End at: 2017-11-16 19:57:17

Below is generated by plot.py at 2017-11-16 23:18:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.17 Mbit/s

95th percentile per-packet one-way delay: 87.102 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 72.51 Mbit/s

95th percentile per-packet one-way delay: 87.095 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 57.35 Mbit/s

95th percentile per-packet one-way delay: 87.144 ms

Loss rate: 0.00%

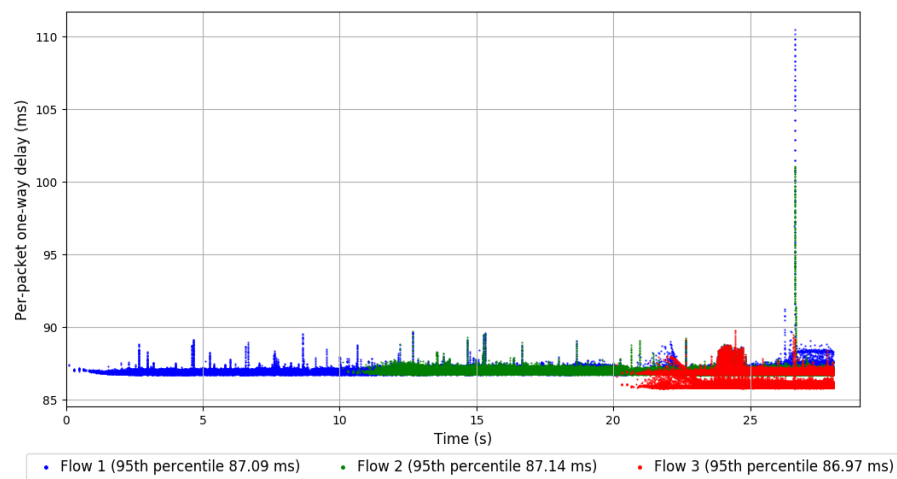
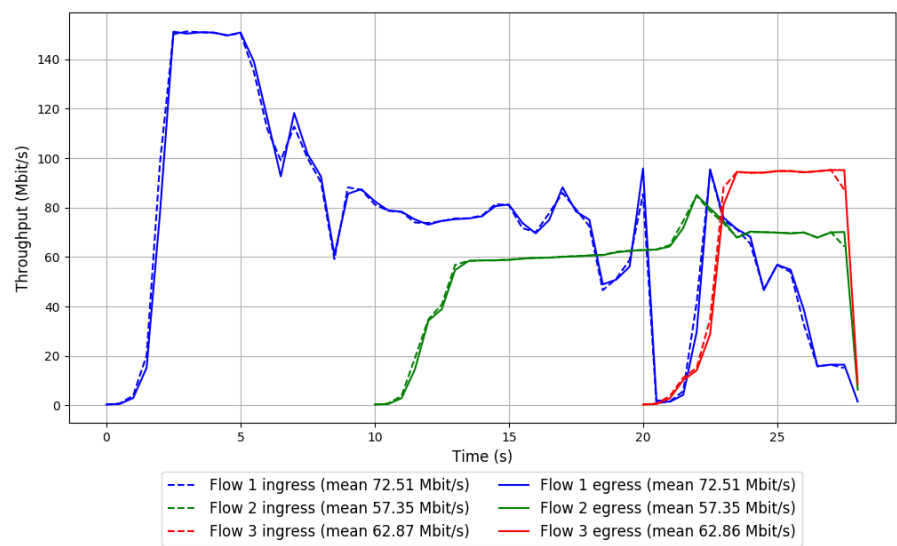
-- Flow 3:

Average throughput: 62.86 Mbit/s

95th percentile per-packet one-way delay: 86.968 ms

Loss rate: 0.01%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-16 20:09:25

End at: 2017-11-16 20:09:55

Below is generated by plot.py at 2017-11-16 23:19:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 155.05 Mbit/s

95th percentile per-packet one-way delay: 86.944 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 82.39 Mbit/s

95th percentile per-packet one-way delay: 86.925 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 81.31 Mbit/s

95th percentile per-packet one-way delay: 86.961 ms

Loss rate: 0.00%

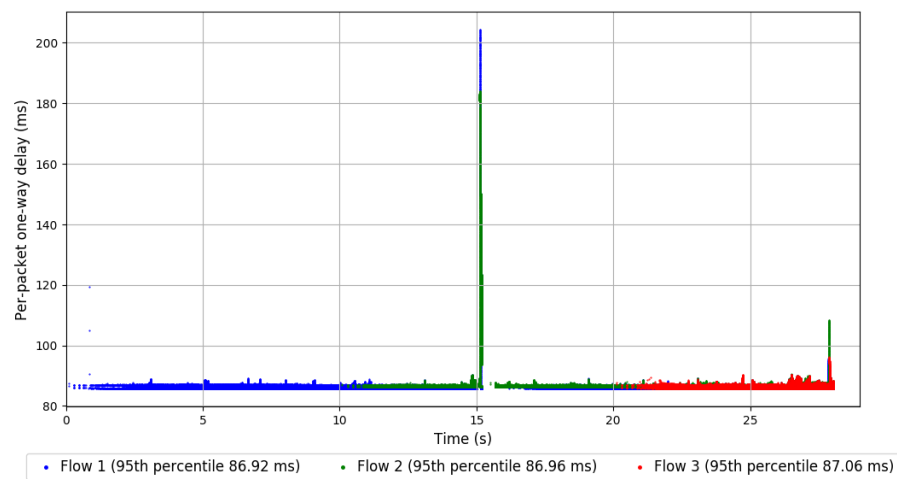
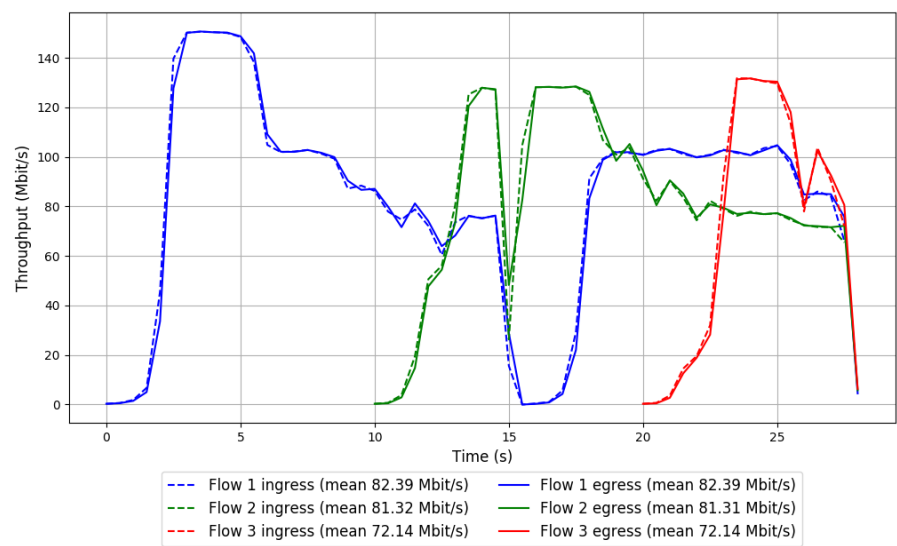
-- Flow 3:

Average throughput: 72.14 Mbit/s

95th percentile per-packet one-way delay: 87.058 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-16 20:22:21

End at: 2017-11-16 20:22:51

Below is generated by plot.py at 2017-11-16 23:19:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 126.24 Mbit/s

95th percentile per-packet one-way delay: 86.994 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 82.17 Mbit/s

95th percentile per-packet one-way delay: 86.950 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 52.36 Mbit/s

95th percentile per-packet one-way delay: 86.968 ms

Loss rate: 0.00%

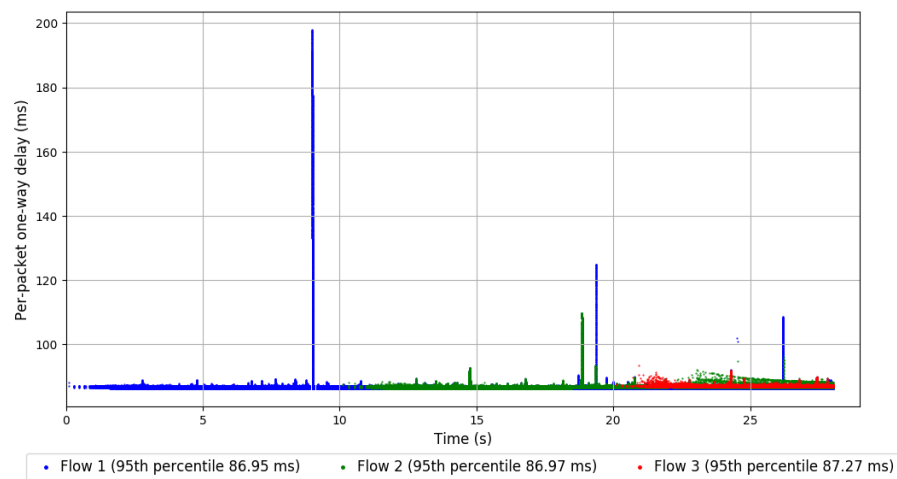
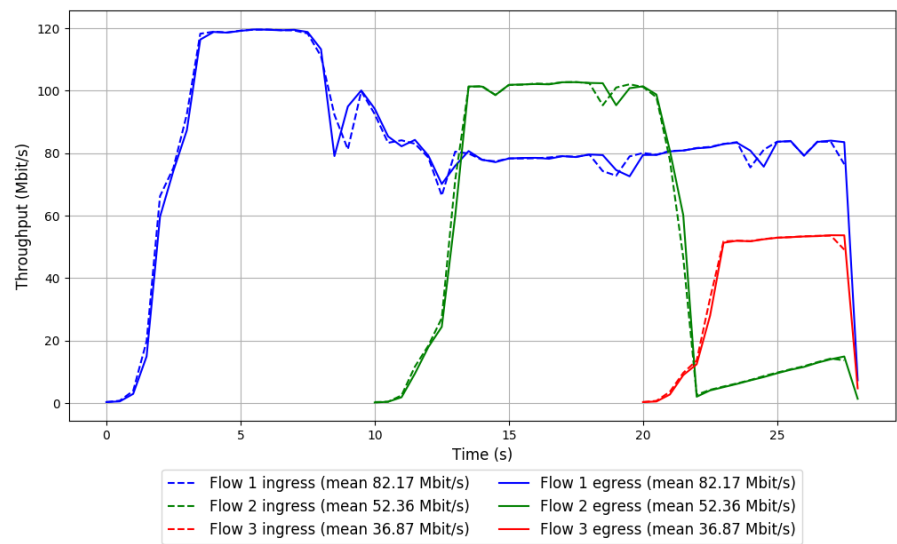
-- Flow 3:

Average throughput: 36.87 Mbit/s

95th percentile per-packet one-way delay: 87.269 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-16 20:34:53

End at: 2017-11-16 20:35:23

Below is generated by plot.py at 2017-11-16 23:21:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 139.48 Mbit/s

95th percentile per-packet one-way delay: 86.941 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 77.92 Mbit/s

95th percentile per-packet one-way delay: 86.926 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 65.84 Mbit/s

95th percentile per-packet one-way delay: 86.967 ms

Loss rate: 0.06%

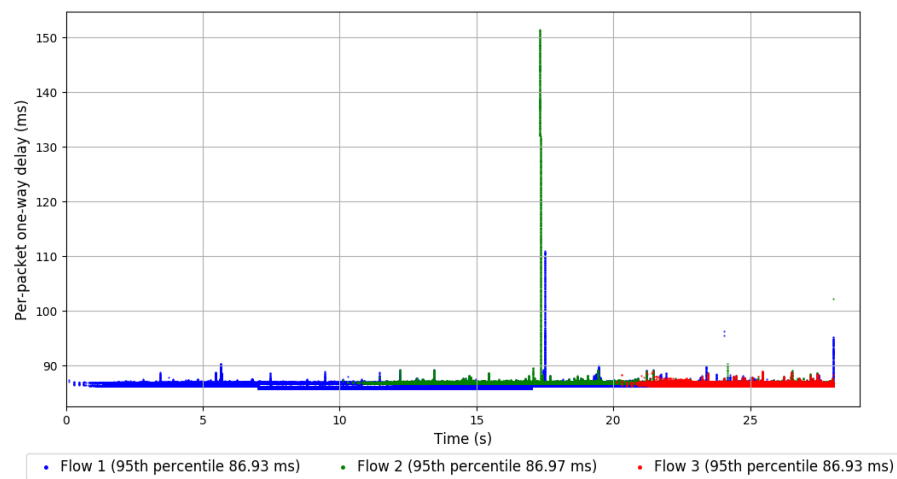
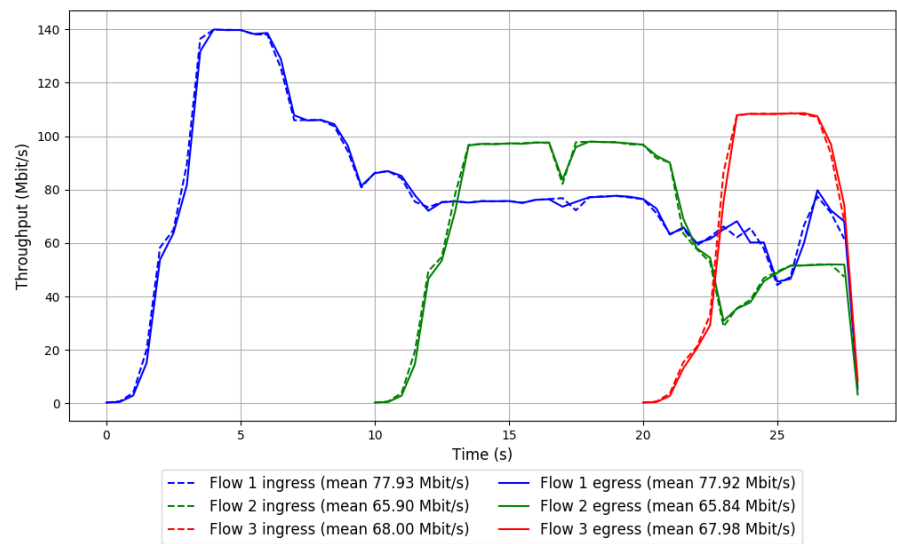
-- Flow 3:

Average throughput: 67.98 Mbit/s

95th percentile per-packet one-way delay: 86.933 ms

Loss rate: 0.01%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-11-16 20:47:37

End at: 2017-11-16 20:48:07

Below is generated by plot.py at 2017-11-16 23:21:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 126.81 Mbit/s

95th percentile per-packet one-way delay: 86.945 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 66.72 Mbit/s

95th percentile per-packet one-way delay: 86.931 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 66.05 Mbit/s

95th percentile per-packet one-way delay: 86.930 ms

Loss rate: 0.01%

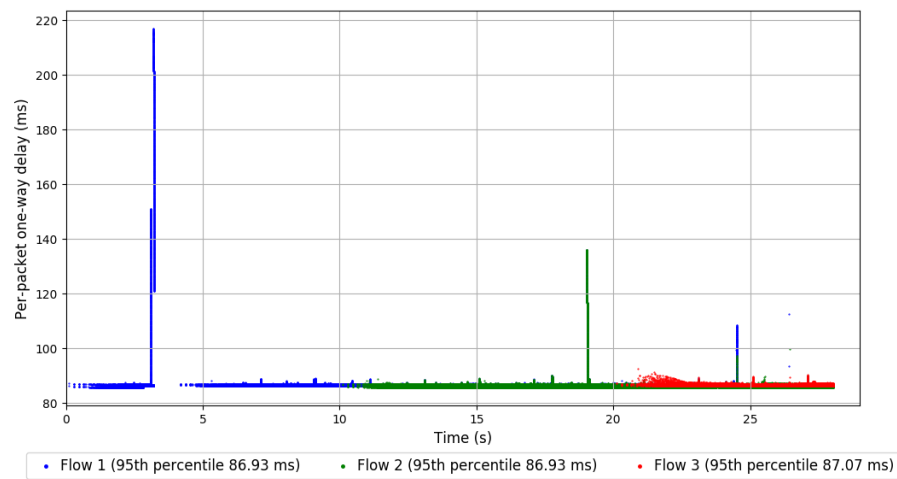
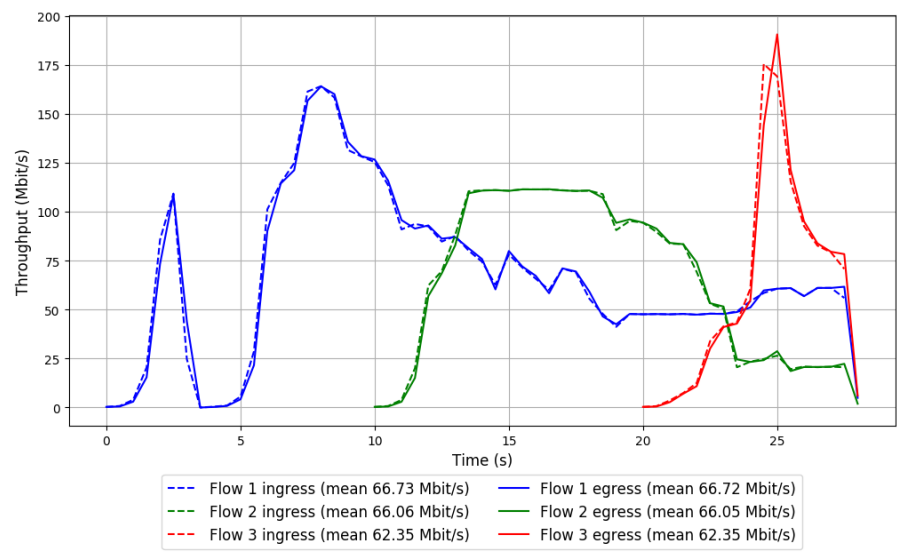
-- Flow 3:

Average throughput: 62.35 Mbit/s

95th percentile per-packet one-way delay: 87.066 ms

Loss rate: 0.01%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-11-16 21:00:30

End at: 2017-11-16 21:01:00

Below is generated by plot.py at 2017-11-16 23:22:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 138.76 Mbit/s

95th percentile per-packet one-way delay: 86.936 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 70.66 Mbit/s

95th percentile per-packet one-way delay: 86.933 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 78.85 Mbit/s

95th percentile per-packet one-way delay: 86.930 ms

Loss rate: 0.01%

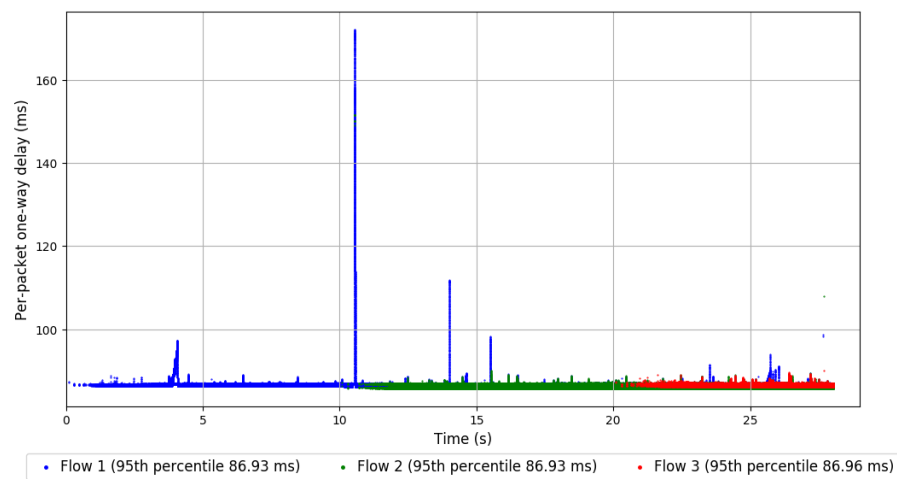
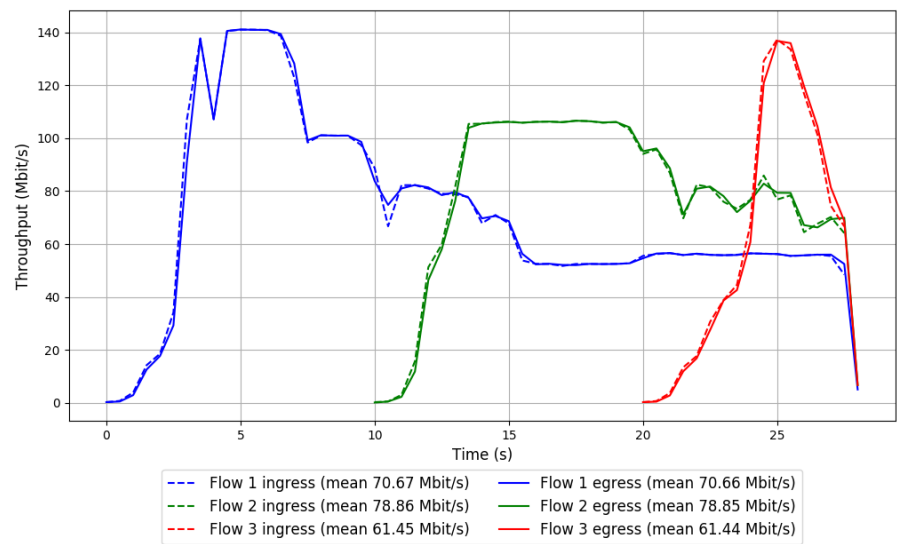
-- Flow 3:

Average throughput: 61.44 Mbit/s

95th percentile per-packet one-way delay: 86.960 ms

Loss rate: 0.02%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-11-16 21:13:30

End at: 2017-11-16 21:14:00

Below is generated by plot.py at 2017-11-16 23:22:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 109.76 Mbit/s

95th percentile per-packet one-way delay: 86.902 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 70.91 Mbit/s

95th percentile per-packet one-way delay: 86.892 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 29.78 Mbit/s

95th percentile per-packet one-way delay: 86.956 ms

Loss rate: 0.01%

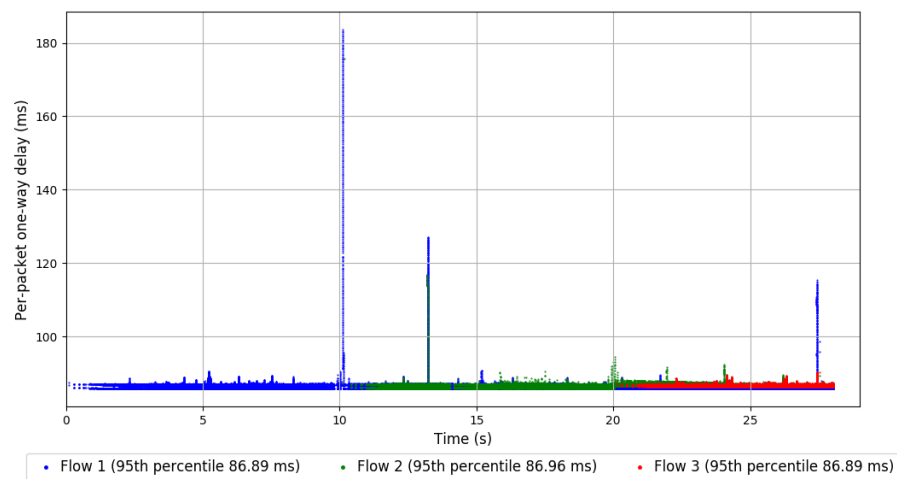
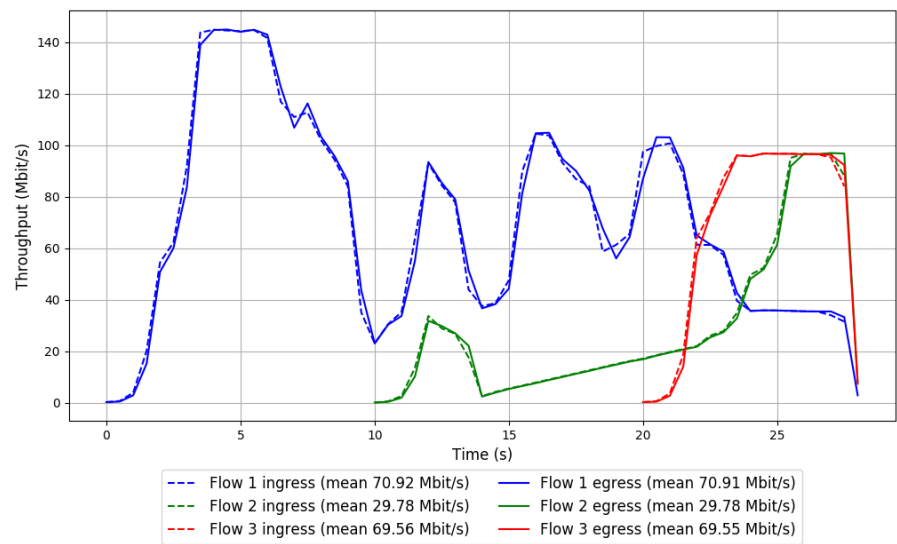
-- Flow 3:

Average throughput: 69.55 Mbit/s

95th percentile per-packet one-way delay: 86.894 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-16 21:26:26

End at: 2017-11-16 21:26:56

Below is generated by plot.py at 2017-11-16 23:22:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 138.74 Mbit/s

95th percentile per-packet one-way delay: 86.908 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 81.12 Mbit/s

95th percentile per-packet one-way delay: 86.890 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 56.01 Mbit/s

95th percentile per-packet one-way delay: 86.935 ms

Loss rate: 0.00%

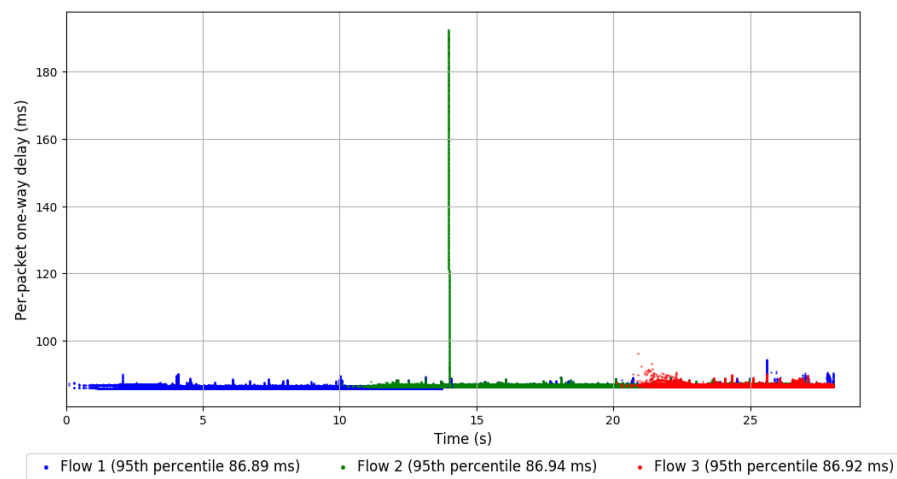
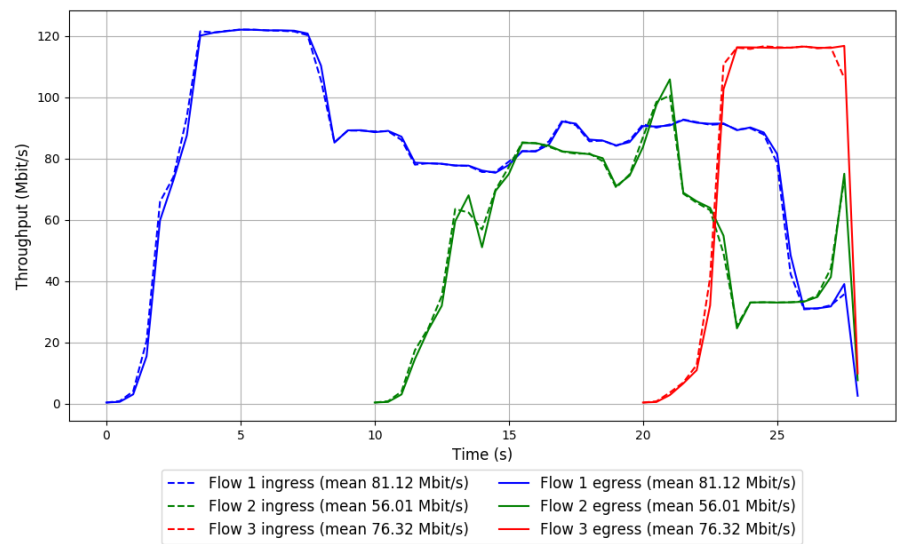
-- Flow 3:

Average throughput: 76.32 Mbit/s

95th percentile per-packet one-way delay: 86.916 ms

Loss rate: 0.01%

Run 10: Report of Copa — Data Link

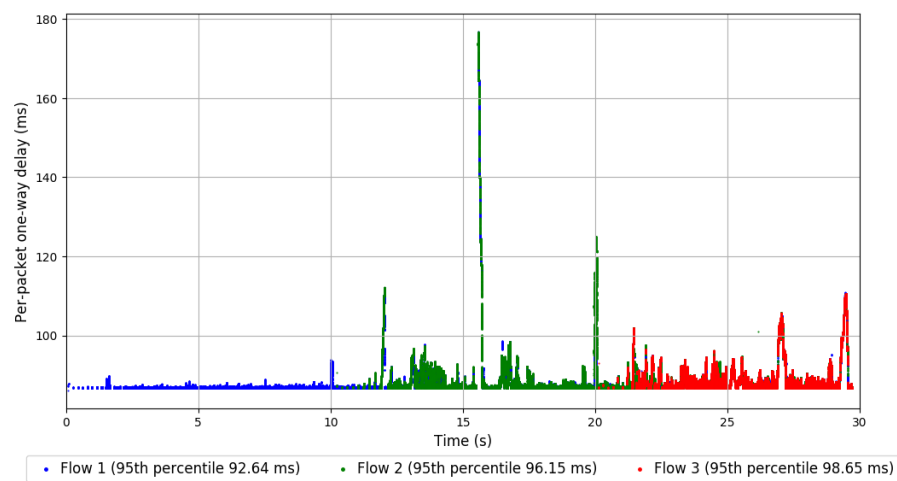
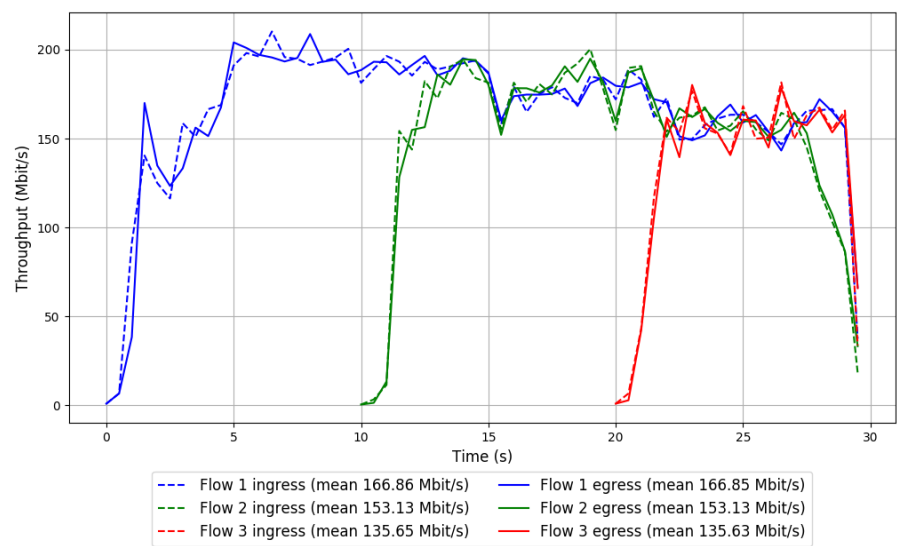


```
Run 1: Statistics of Indigo

Start at: 2017-11-16 19:31:56
End at: 2017-11-16 19:32:26

# Below is generated by plot.py at 2017-11-16 23:23:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 311.37 Mbit/s
95th percentile per-packet one-way delay: 94.502 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 166.85 Mbit/s
95th percentile per-packet one-way delay: 92.637 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 153.13 Mbit/s
95th percentile per-packet one-way delay: 96.148 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 135.63 Mbit/s
95th percentile per-packet one-way delay: 98.649 ms
Loss rate: 0.02%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-11-16 19:44:47

End at: 2017-11-16 19:45:17

Below is generated by plot.py at 2017-11-16 23:24:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 324.38 Mbit/s

95th percentile per-packet one-way delay: 94.212 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 172.97 Mbit/s

95th percentile per-packet one-way delay: 92.002 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 161.09 Mbit/s

95th percentile per-packet one-way delay: 94.852 ms

Loss rate: 0.00%

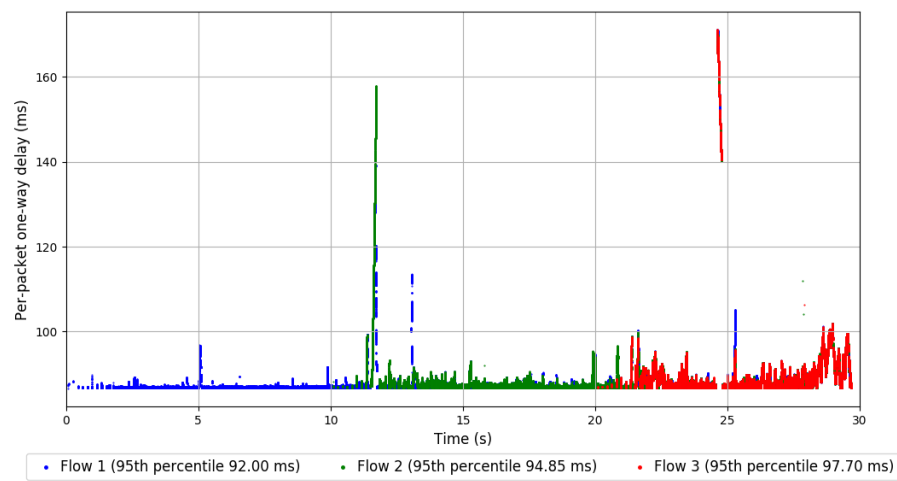
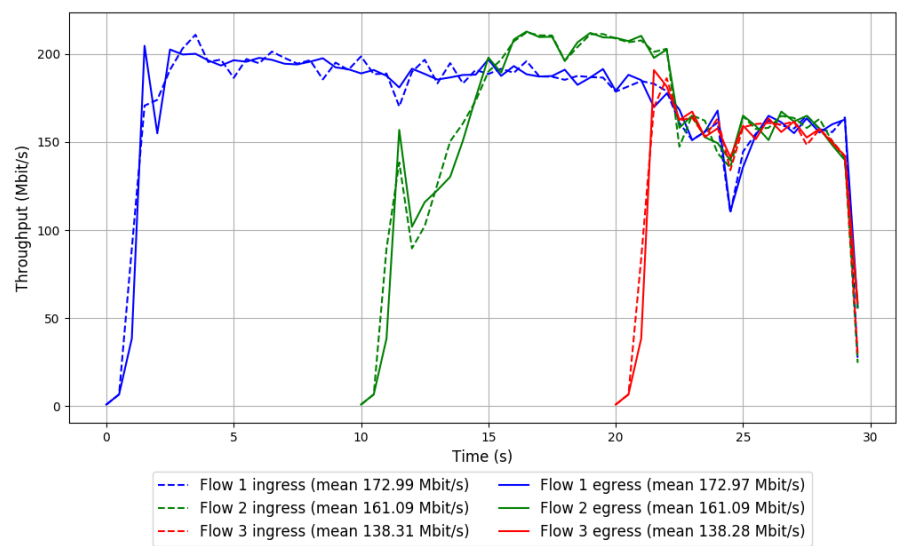
-- Flow 3:

Average throughput: 138.28 Mbit/s

95th percentile per-packet one-way delay: 97.701 ms

Loss rate: 0.02%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-16 19:57:44

End at: 2017-11-16 19:58:14

Below is generated by plot.py at 2017-11-16 23:24:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 294.20 Mbit/s

95th percentile per-packet one-way delay: 98.056 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 172.97 Mbit/s

95th percentile per-packet one-way delay: 95.340 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 110.30 Mbit/s

95th percentile per-packet one-way delay: 100.296 ms

Loss rate: 0.00%

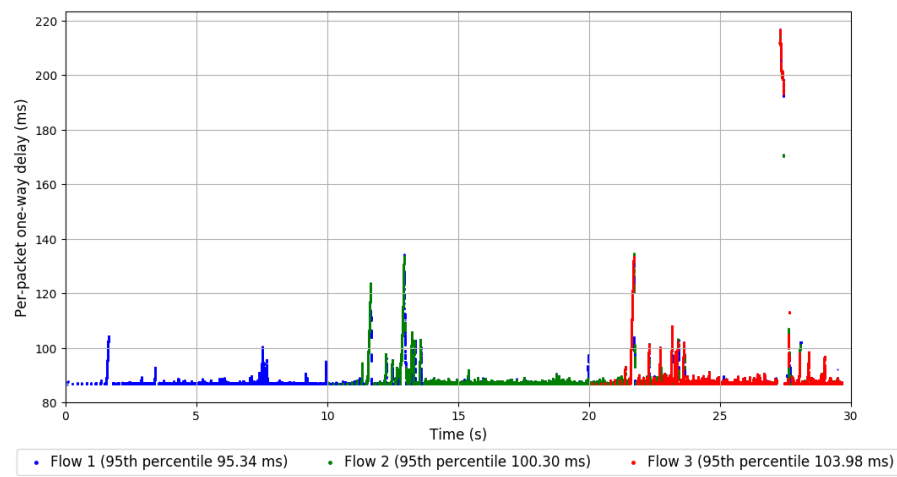
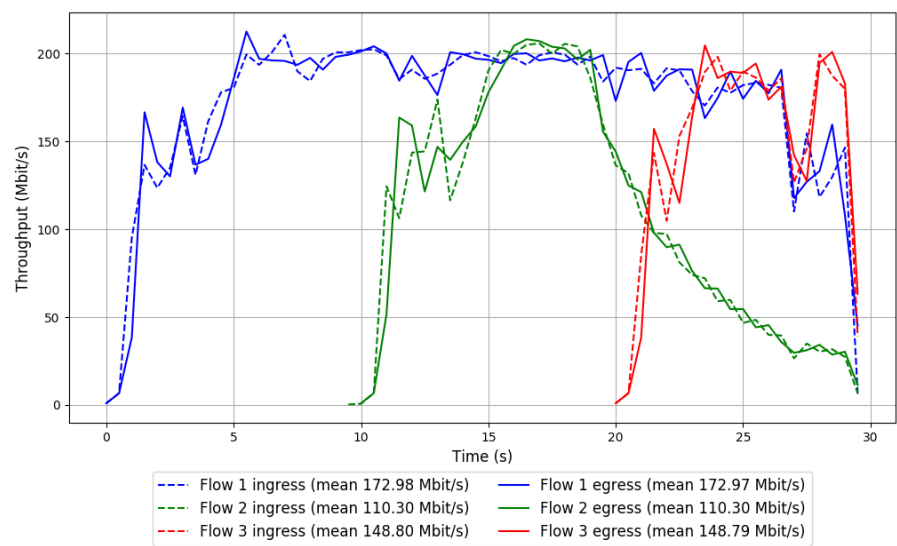
-- Flow 3:

Average throughput: 148.79 Mbit/s

95th percentile per-packet one-way delay: 103.983 ms

Loss rate: 0.01%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-16 20:10:25

End at: 2017-11-16 20:10:55

Below is generated by plot.py at 2017-11-16 23:26:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 320.95 Mbit/s

95th percentile per-packet one-way delay: 92.062 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 164.22 Mbit/s

95th percentile per-packet one-way delay: 90.927 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 165.04 Mbit/s

95th percentile per-packet one-way delay: 94.212 ms

Loss rate: 0.00%

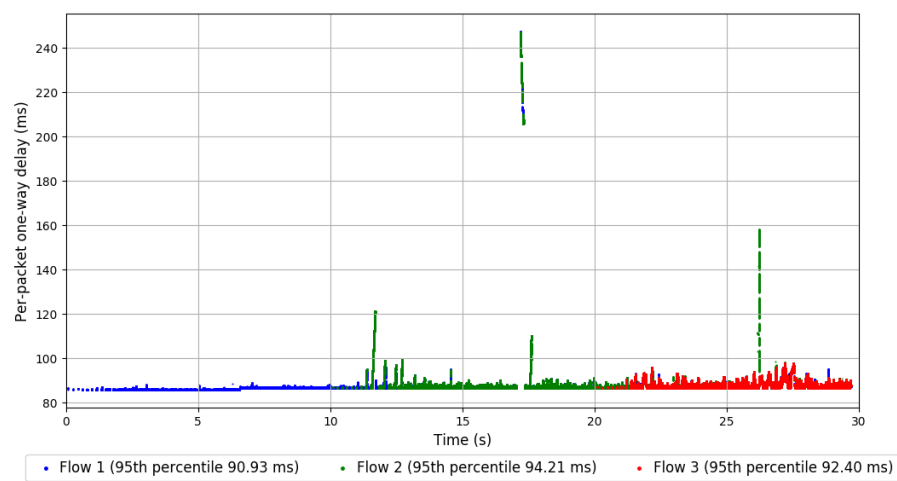
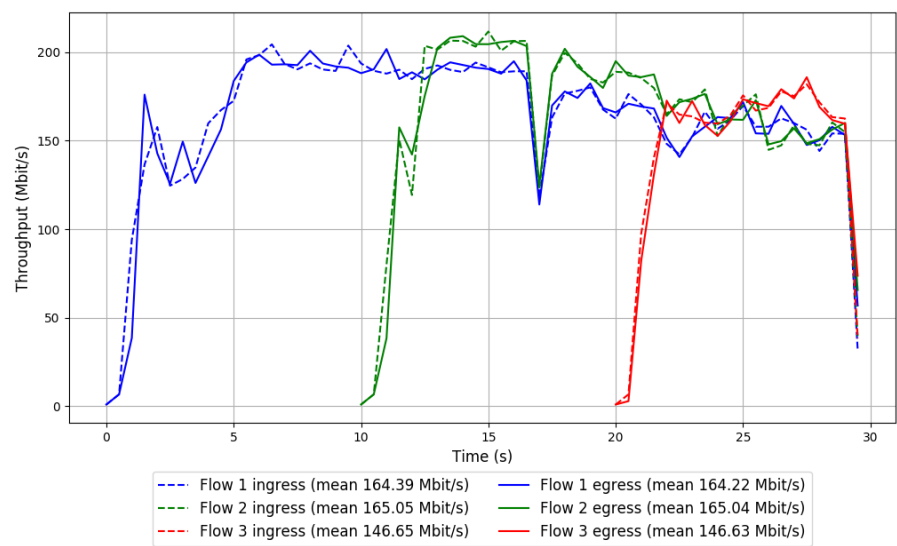
-- Flow 3:

Average throughput: 146.63 Mbit/s

95th percentile per-packet one-way delay: 92.398 ms

Loss rate: 0.01%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-11-16 20:23:18

End at: 2017-11-16 20:23:48

Below is generated by plot.py at 2017-11-16 23:26:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 316.03 Mbit/s

95th percentile per-packet one-way delay: 100.859 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 166.20 Mbit/s

95th percentile per-packet one-way delay: 97.547 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 160.50 Mbit/s

95th percentile per-packet one-way delay: 102.898 ms

Loss rate: 0.01%

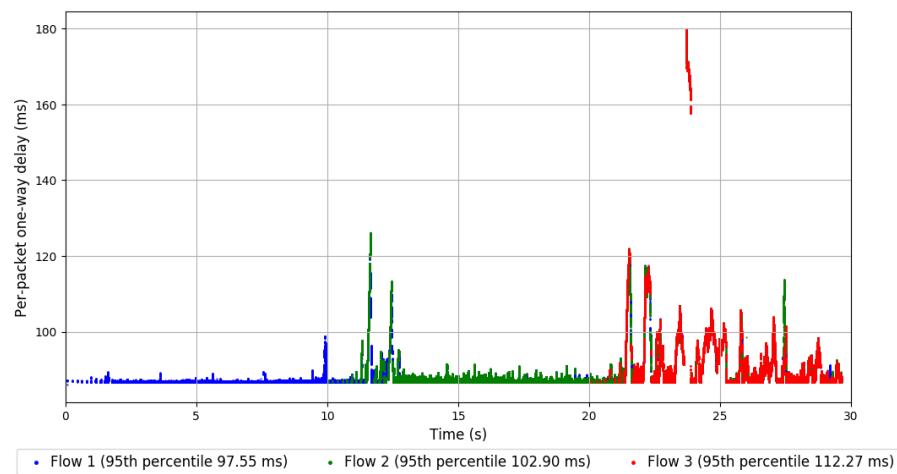
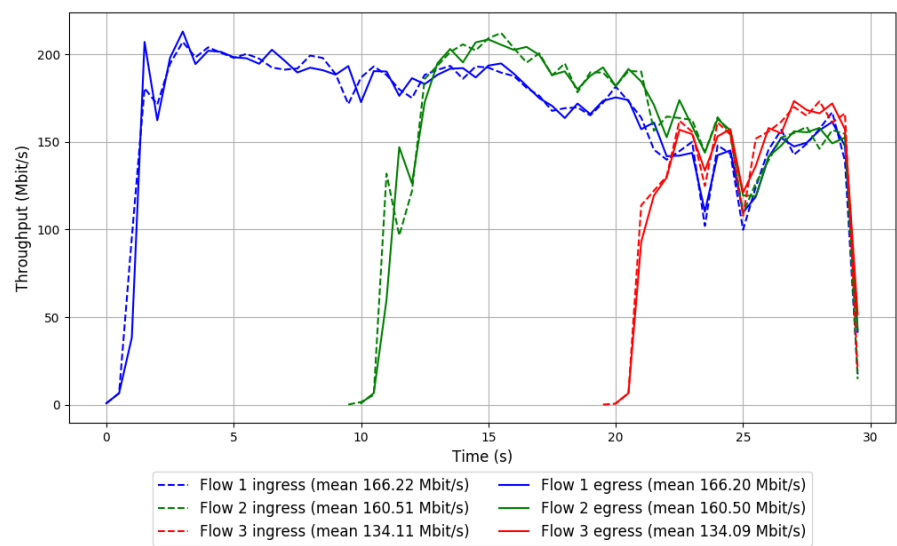
-- Flow 3:

Average throughput: 134.09 Mbit/s

95th percentile per-packet one-way delay: 112.274 ms

Loss rate: 0.01%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-16 20:35:51

End at: 2017-11-16 20:36:21

Below is generated by plot.py at 2017-11-16 23:26:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 315.51 Mbit/s

95th percentile per-packet one-way delay: 94.011 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 178.86 Mbit/s

95th percentile per-packet one-way delay: 91.049 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 163.93 Mbit/s

95th percentile per-packet one-way delay: 95.618 ms

Loss rate: 0.01%

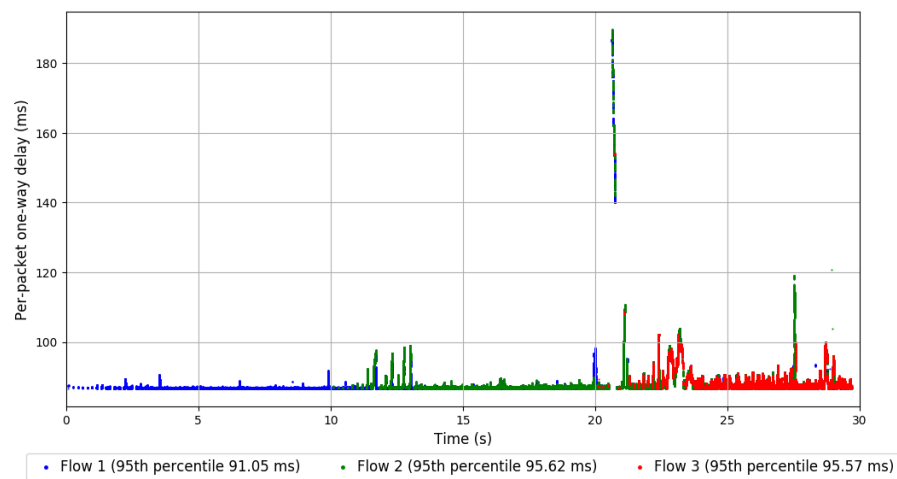
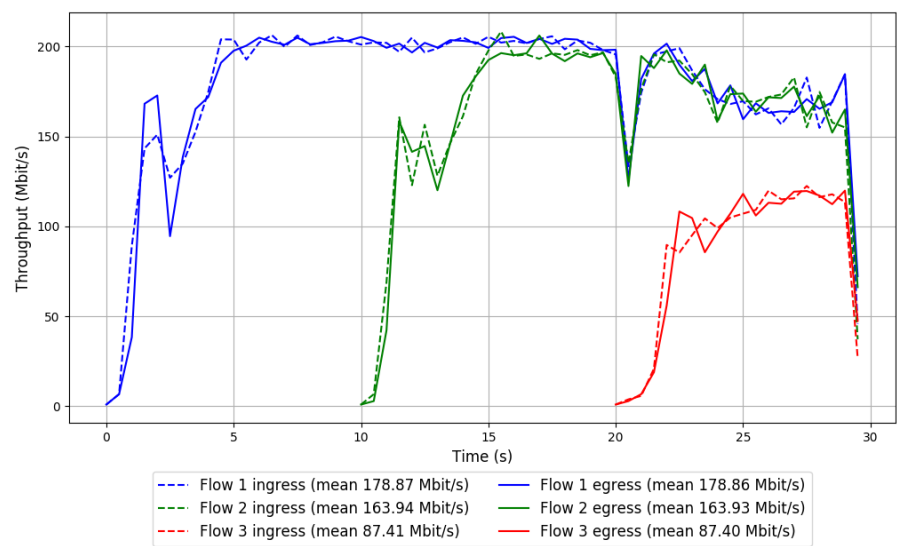
-- Flow 3:

Average throughput: 87.40 Mbit/s

95th percentile per-packet one-way delay: 95.570 ms

Loss rate: 0.01%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-11-16 20:48:34

End at: 2017-11-16 20:49:04

Below is generated by plot.py at 2017-11-16 23:27:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 322.99 Mbit/s

95th percentile per-packet one-way delay: 90.428 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 167.59 Mbit/s

95th percentile per-packet one-way delay: 89.260 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 170.41 Mbit/s

95th percentile per-packet one-way delay: 90.224 ms

Loss rate: 0.02%

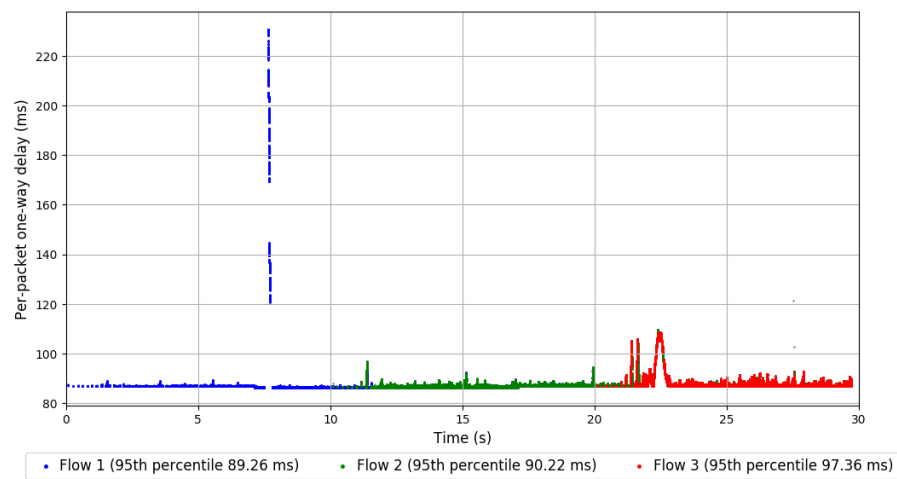
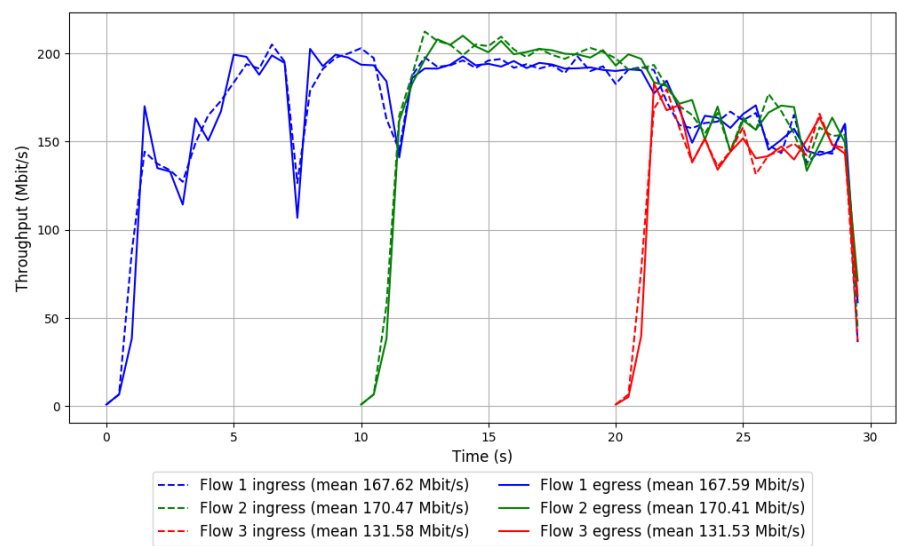
-- Flow 3:

Average throughput: 131.53 Mbit/s

95th percentile per-packet one-way delay: 97.360 ms

Loss rate: 0.02%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-16 21:01:28

End at: 2017-11-16 21:01:58

Below is generated by plot.py at 2017-11-16 23:27:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 320.63 Mbit/s

95th percentile per-packet one-way delay: 102.009 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 168.59 Mbit/s

95th percentile per-packet one-way delay: 98.143 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 161.71 Mbit/s

95th percentile per-packet one-way delay: 104.943 ms

Loss rate: 0.01%

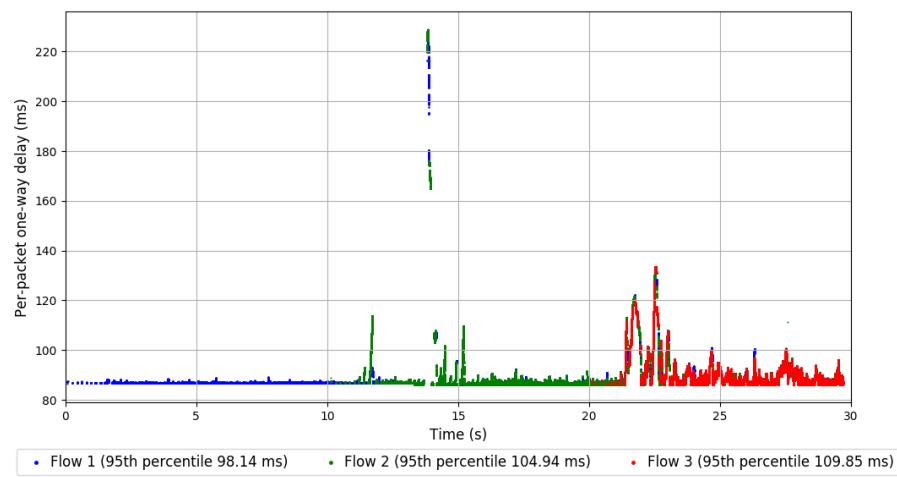
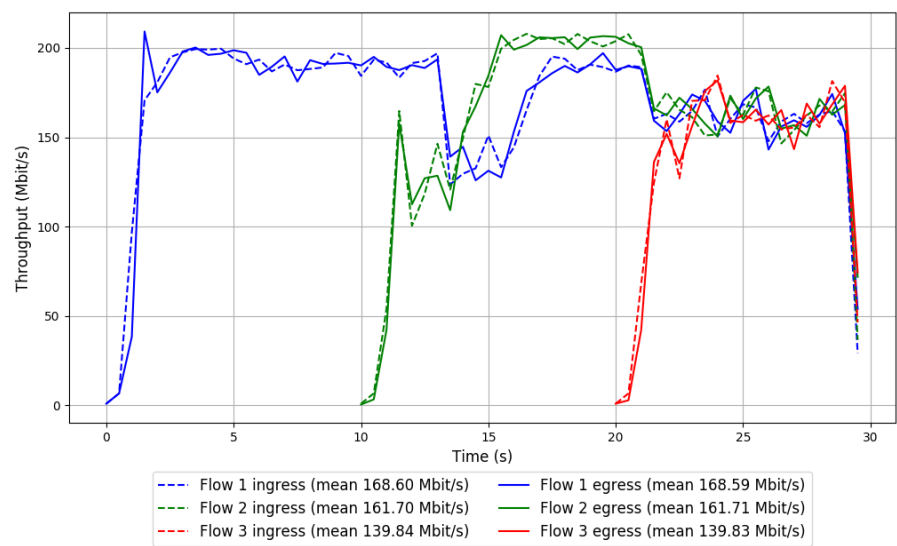
-- Flow 3:

Average throughput: 139.83 Mbit/s

95th percentile per-packet one-way delay: 109.853 ms

Loss rate: 0.01%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-16 21:14:25

End at: 2017-11-16 21:14:55

Below is generated by plot.py at 2017-11-16 23:29:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 321.26 Mbit/s

95th percentile per-packet one-way delay: 97.940 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 174.77 Mbit/s

95th percentile per-packet one-way delay: 93.355 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 157.44 Mbit/s

95th percentile per-packet one-way delay: 103.230 ms

Loss rate: 0.02%

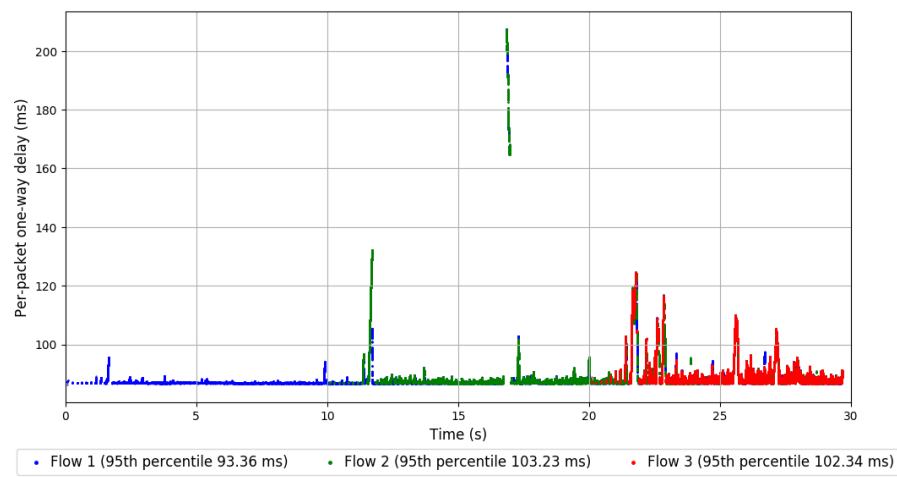
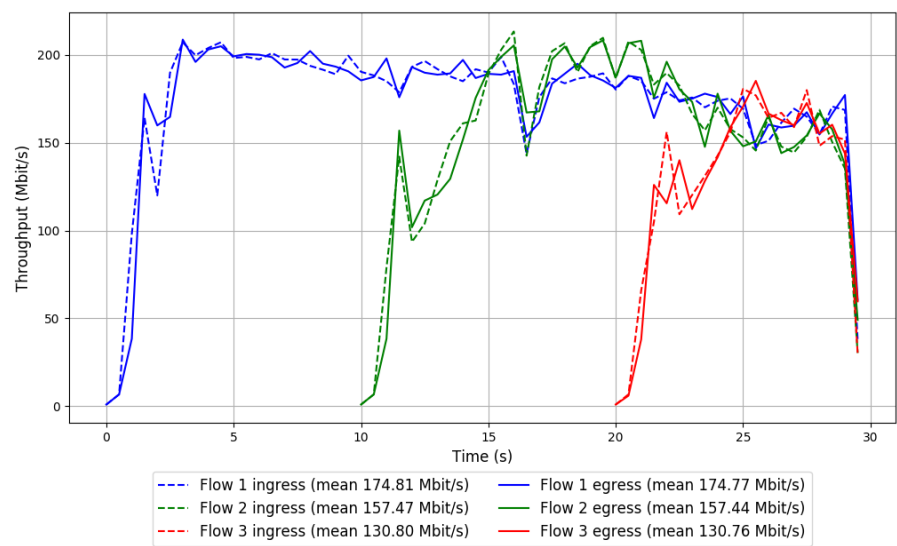
-- Flow 3:

Average throughput: 130.76 Mbit/s

95th percentile per-packet one-way delay: 102.340 ms

Loss rate: 0.04%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-11-16 21:27:24

End at: 2017-11-16 21:27:54

Below is generated by plot.py at 2017-11-16 23:30:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 323.28 Mbit/s

95th percentile per-packet one-way delay: 97.913 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 170.49 Mbit/s

95th percentile per-packet one-way delay: 95.000 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 164.24 Mbit/s

95th percentile per-packet one-way delay: 99.574 ms

Loss rate: 0.01%

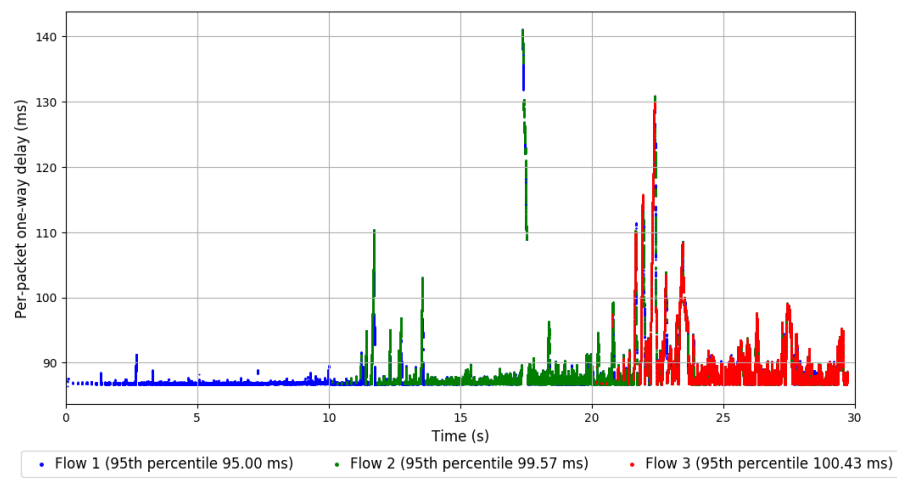
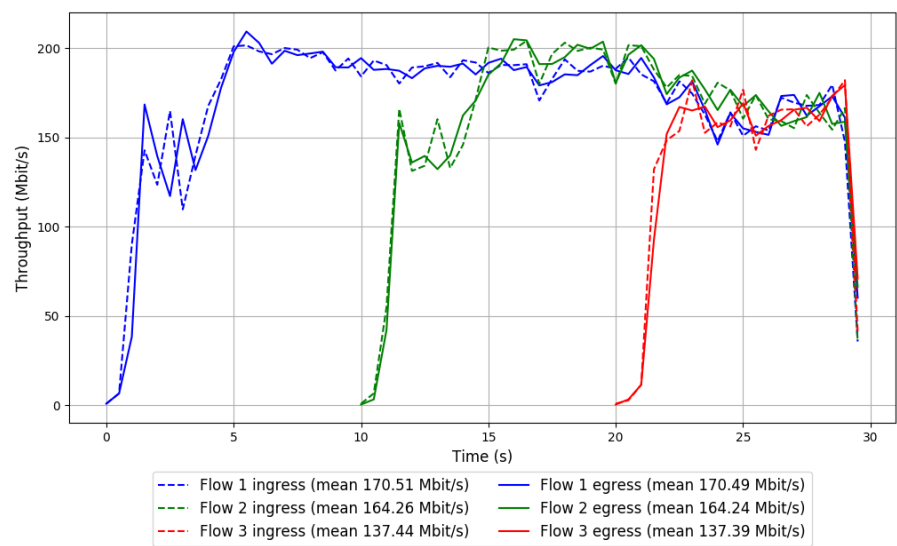
-- Flow 3:

Average throughput: 137.39 Mbit/s

95th percentile per-packet one-way delay: 100.432 ms

Loss rate: 0.03%

Run 10: Report of Indigo — Data Link

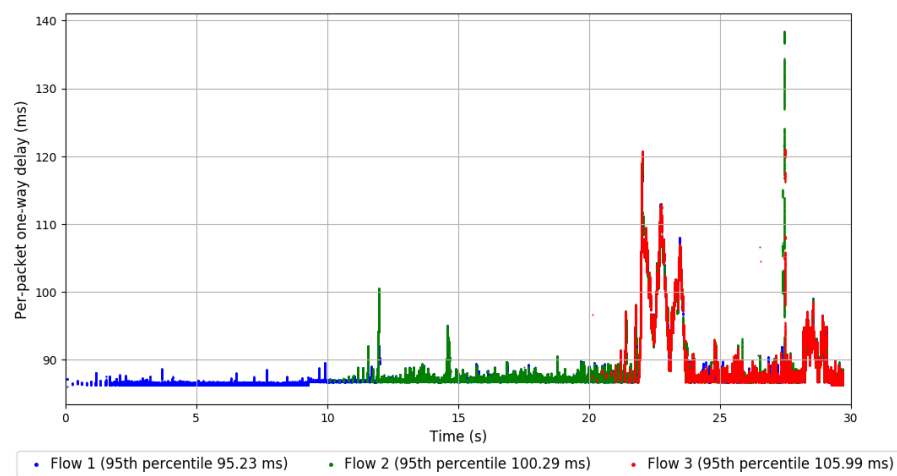
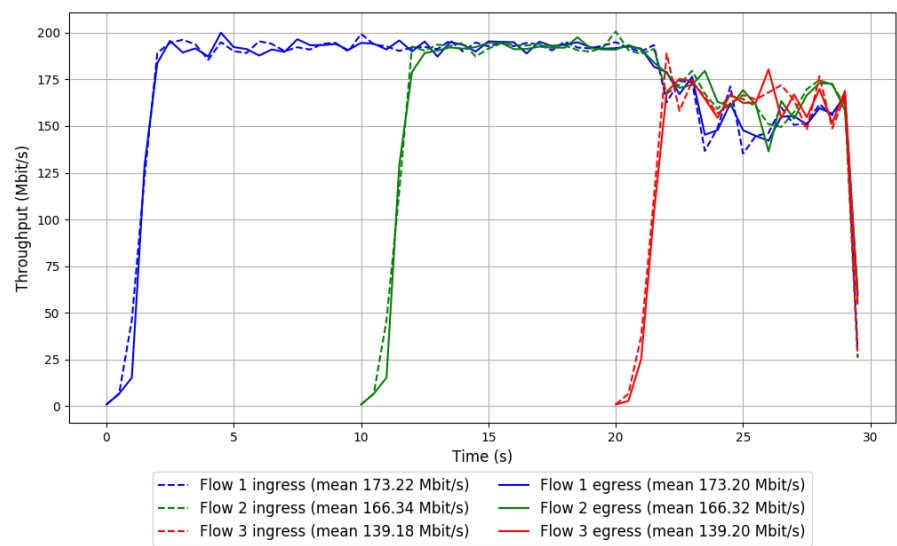


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-16 19:23:52
End at: 2017-11-16 19:24:22

# Below is generated by plot.py at 2017-11-16 23:30:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 328.22 Mbit/s
95th percentile per-packet one-way delay: 100.083 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 173.20 Mbit/s
95th percentile per-packet one-way delay: 95.231 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 166.32 Mbit/s
95th percentile per-packet one-way delay: 100.287 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 139.20 Mbit/s
95th percentile per-packet one-way delay: 105.990 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link

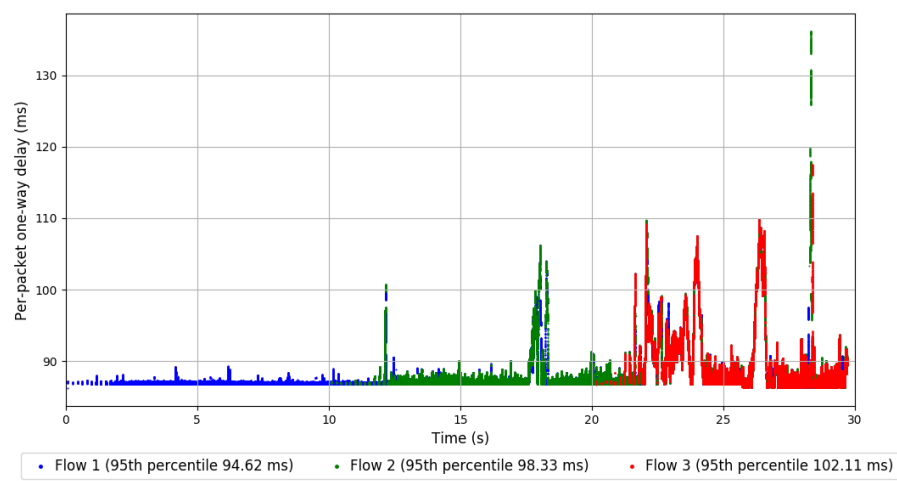
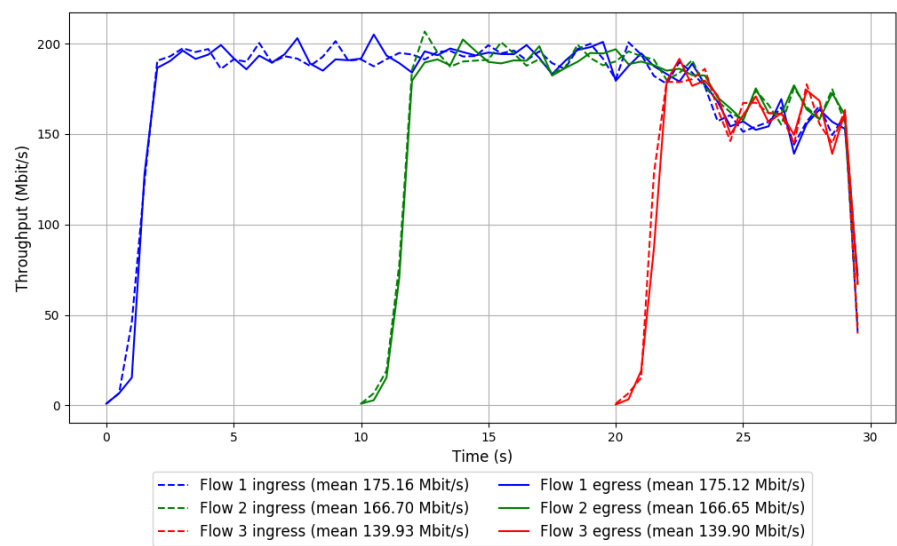


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-16 19:36:45
End at: 2017-11-16 19:37:15

# Below is generated by plot.py at 2017-11-16 23:31:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 330.36 Mbit/s
95th percentile per-packet one-way delay: 97.247 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 175.12 Mbit/s
95th percentile per-packet one-way delay: 94.618 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 166.65 Mbit/s
95th percentile per-packet one-way delay: 98.329 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 139.90 Mbit/s
95th percentile per-packet one-way delay: 102.111 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo-calib — Data Link

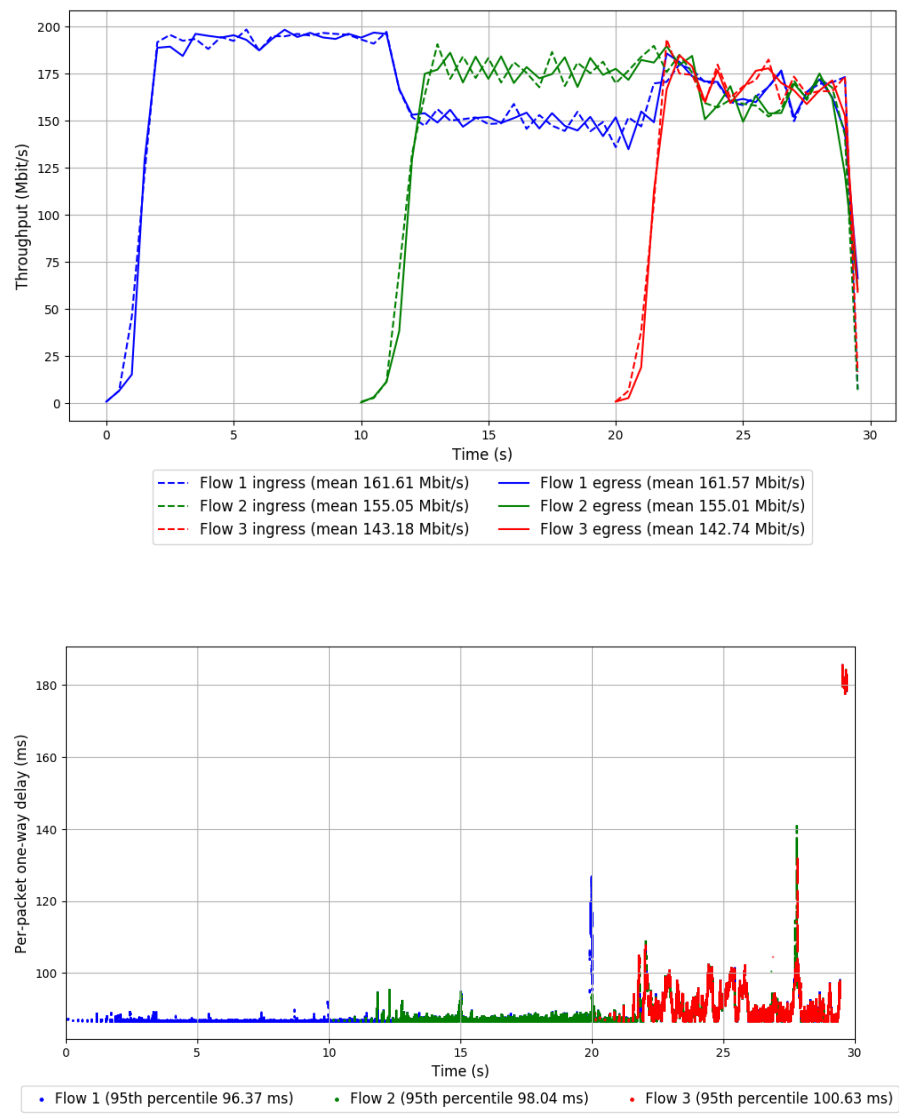


```
Run 3: Statistics of Indigo-calib

Start at: 2017-11-16 19:49:42
End at: 2017-11-16 19:50:12

# Below is generated by plot.py at 2017-11-16 23:31:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 309.93 Mbit/s
95th percentile per-packet one-way delay: 98.222 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 161.57 Mbit/s
95th percentile per-packet one-way delay: 96.372 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 155.01 Mbit/s
95th percentile per-packet one-way delay: 98.042 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 142.74 Mbit/s
95th percentile per-packet one-way delay: 100.631 ms
Loss rate: 0.31%
```


Run 3: Report of Indigo-calib — Data Link

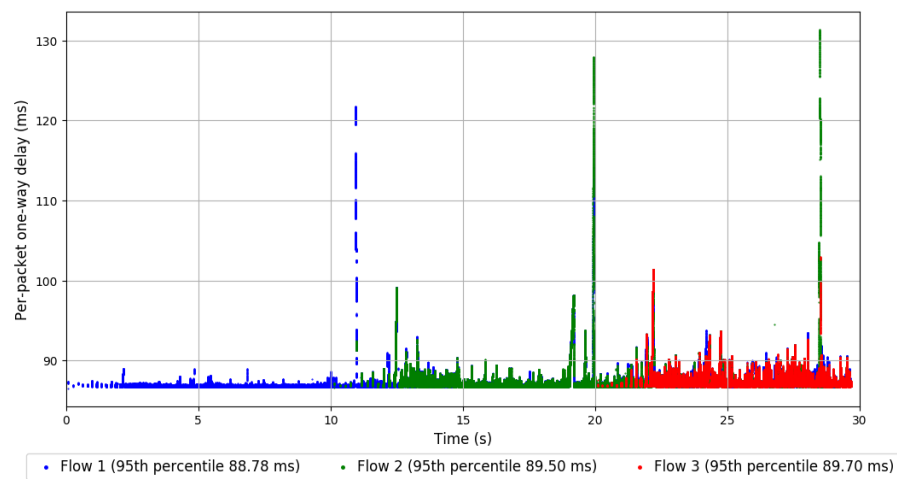
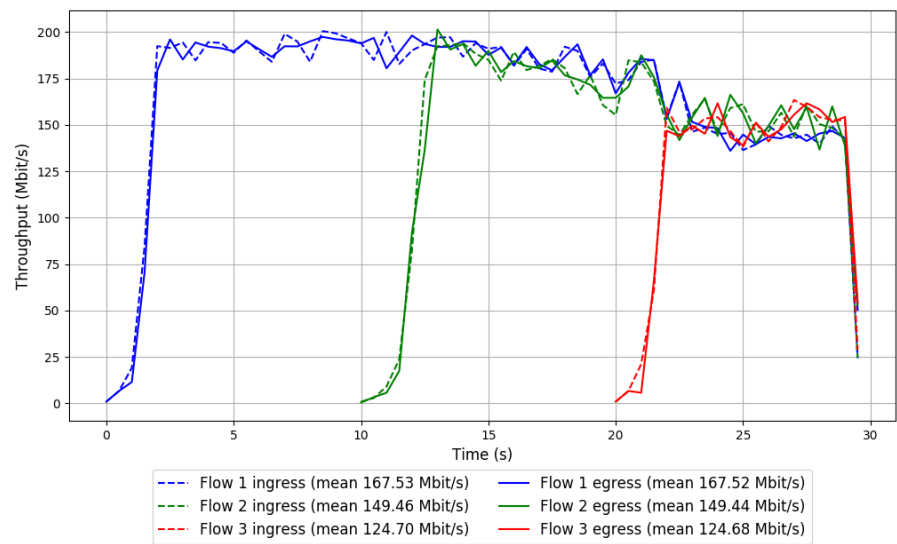


```
Run 4: Statistics of Indigo-calib

Start at: 2017-11-16 20:02:31
End at: 2017-11-16 20:03:01

# Below is generated by plot.py at 2017-11-16 23:31:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 306.51 Mbit/s
95th percentile per-packet one-way delay: 89.155 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 167.52 Mbit/s
95th percentile per-packet one-way delay: 88.784 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 149.44 Mbit/s
95th percentile per-packet one-way delay: 89.496 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 124.68 Mbit/s
95th percentile per-packet one-way delay: 89.704 ms
Loss rate: 0.02%
```

Run 4: Report of Indigo-calib — Data Link

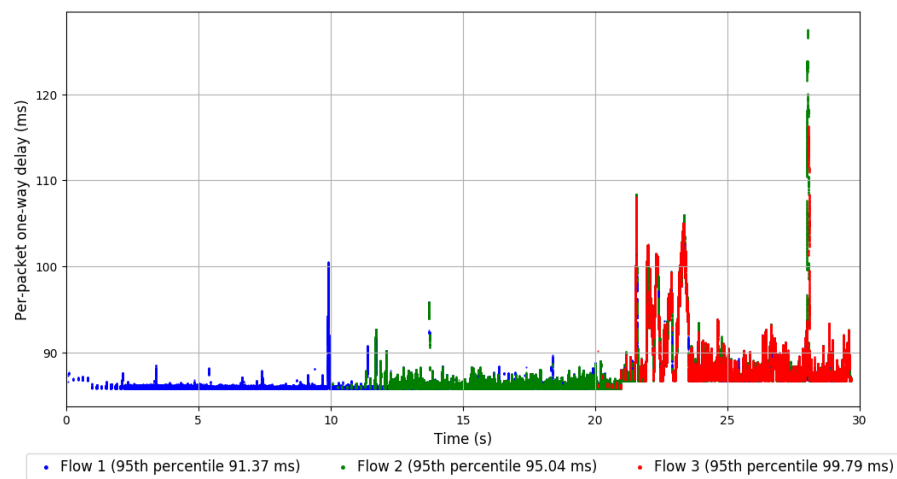
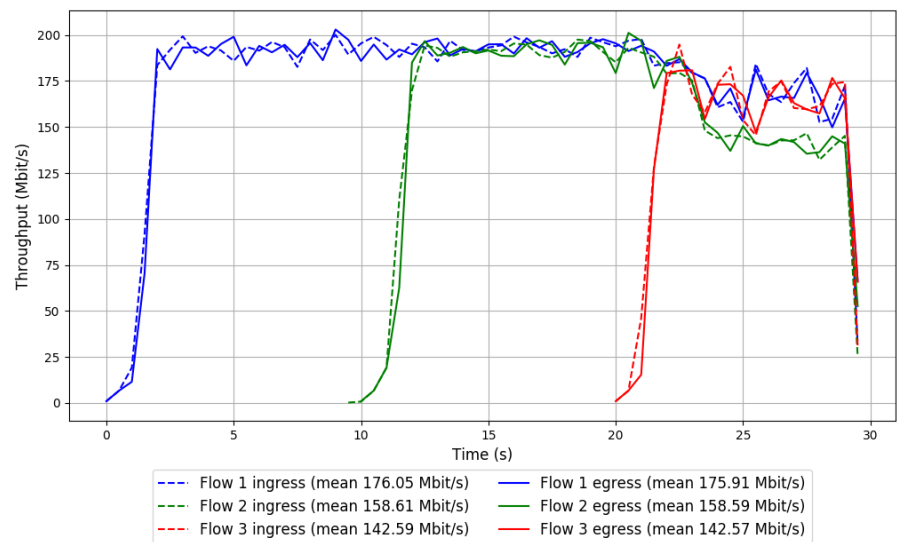


```
Run 5: Statistics of Indigo-calib

Start at: 2017-11-16 20:15:20
End at: 2017-11-16 20:15:50

# Below is generated by plot.py at 2017-11-16 23:32:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 327.15 Mbit/s
95th percentile per-packet one-way delay: 94.996 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 175.91 Mbit/s
95th percentile per-packet one-way delay: 91.374 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 158.59 Mbit/s
95th percentile per-packet one-way delay: 95.043 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 142.57 Mbit/s
95th percentile per-packet one-way delay: 99.792 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo-calib — Data Link

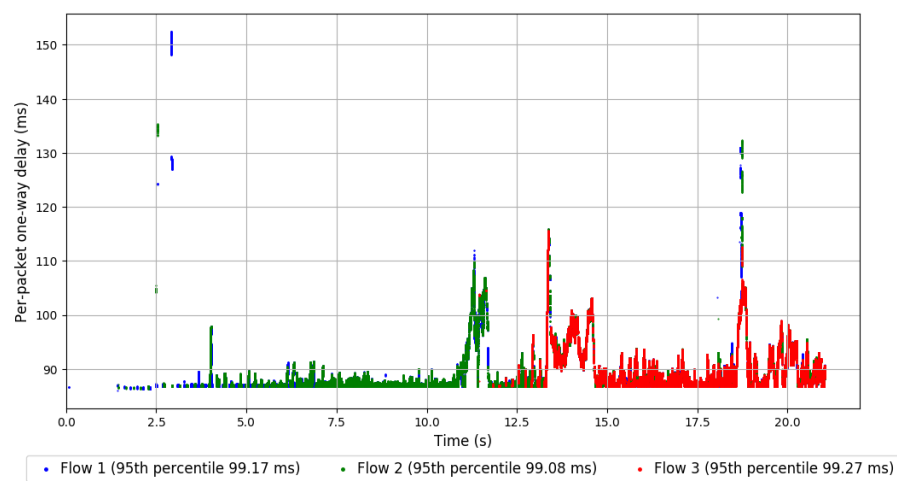
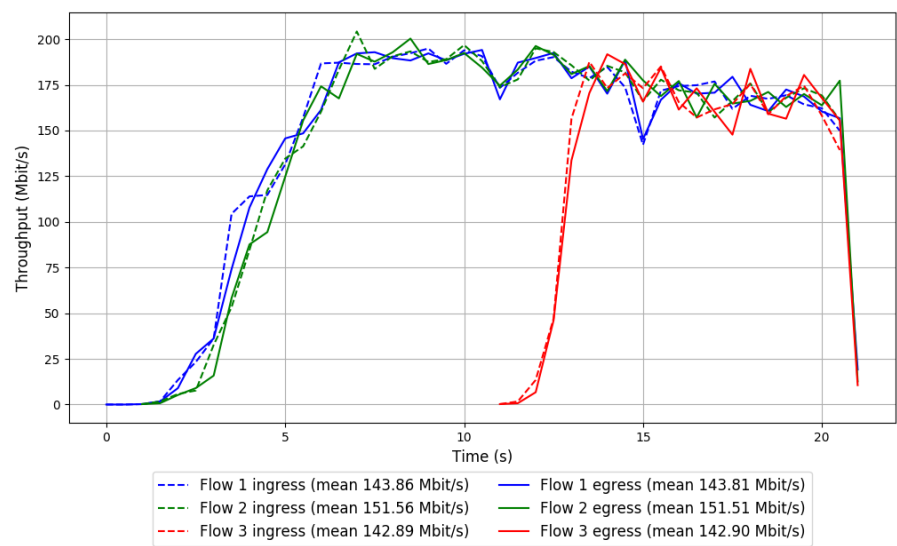


Run 6: Statistics of Indigo-calib

Start at: 2017-11-16 20:28:00

End at: 2017-11-16 20:28:30

Run 6: Report of Indigo-calib — Data Link

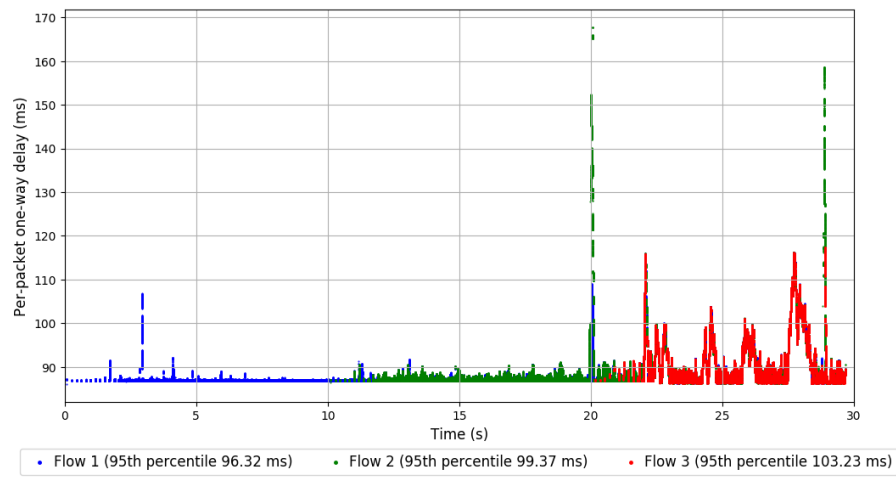
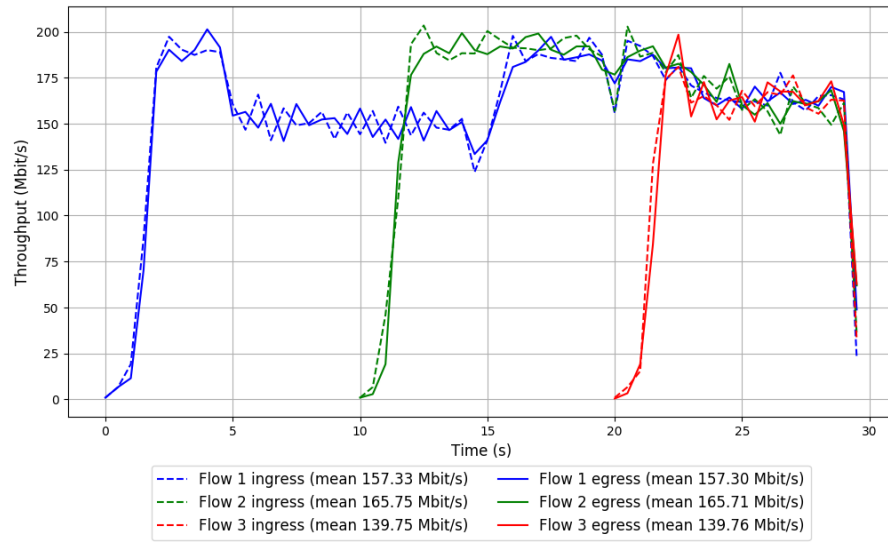


```
Run 7: Statistics of Indigo-calib

Start at: 2017-11-16 20:40:39
End at: 2017-11-16 20:41:09

# Below is generated by plot.py at 2017-11-16 23:33:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 311.69 Mbit/s
95th percentile per-packet one-way delay: 98.558 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 157.30 Mbit/s
95th percentile per-packet one-way delay: 96.324 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 165.71 Mbit/s
95th percentile per-packet one-way delay: 99.372 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 139.76 Mbit/s
95th percentile per-packet one-way delay: 103.233 ms
Loss rate: 0.01%
```


Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-16 20:53:29

End at: 2017-11-16 20:53:59

Below is generated by plot.py at 2017-11-16 23:33:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 322.19 Mbit/s

95th percentile per-packet one-way delay: 101.898 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 173.01 Mbit/s

95th percentile per-packet one-way delay: 98.125 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 162.17 Mbit/s

95th percentile per-packet one-way delay: 102.499 ms

Loss rate: 0.00%

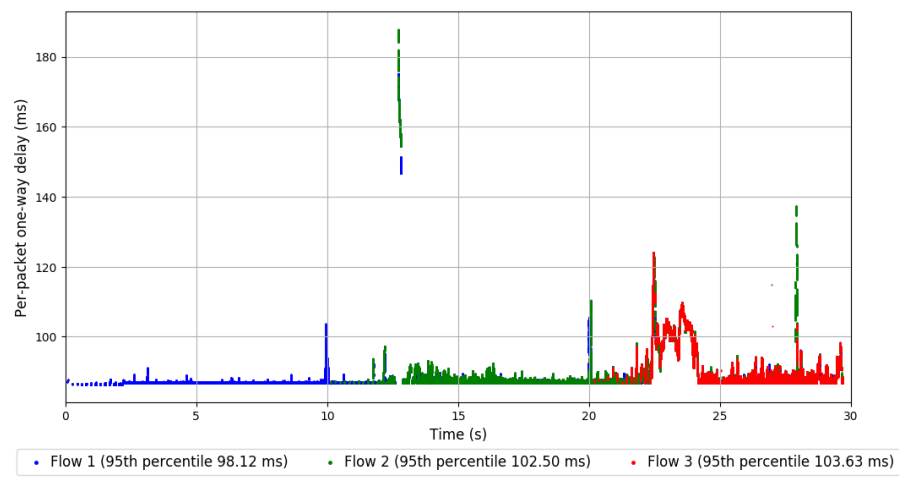
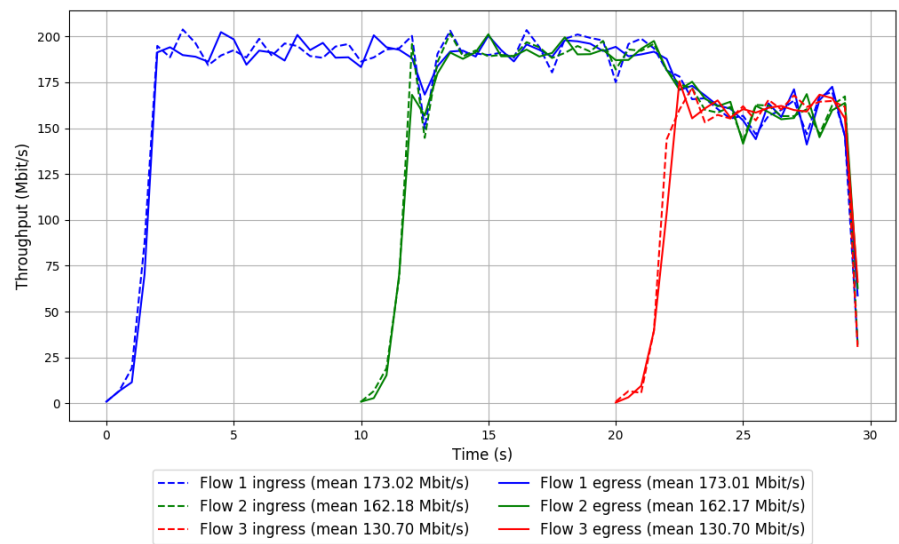
-- Flow 3:

Average throughput: 130.70 Mbit/s

95th percentile per-packet one-way delay: 103.634 ms

Loss rate: 0.00%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-11-16 21:06:18

End at: 2017-11-16 21:06:48

Below is generated by plot.py at 2017-11-16 23:33:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 331.11 Mbit/s

95th percentile per-packet one-way delay: 102.021 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 175.31 Mbit/s

95th percentile per-packet one-way delay: 97.704 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 165.66 Mbit/s

95th percentile per-packet one-way delay: 102.060 ms

Loss rate: 0.01%

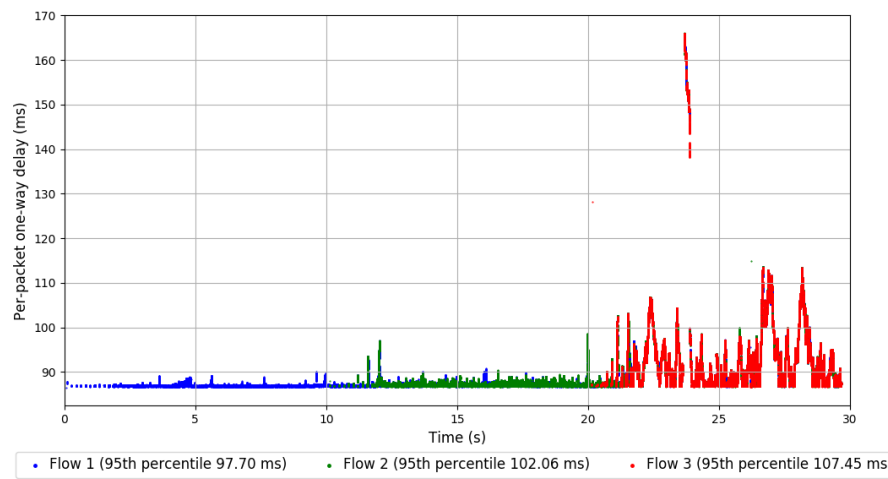
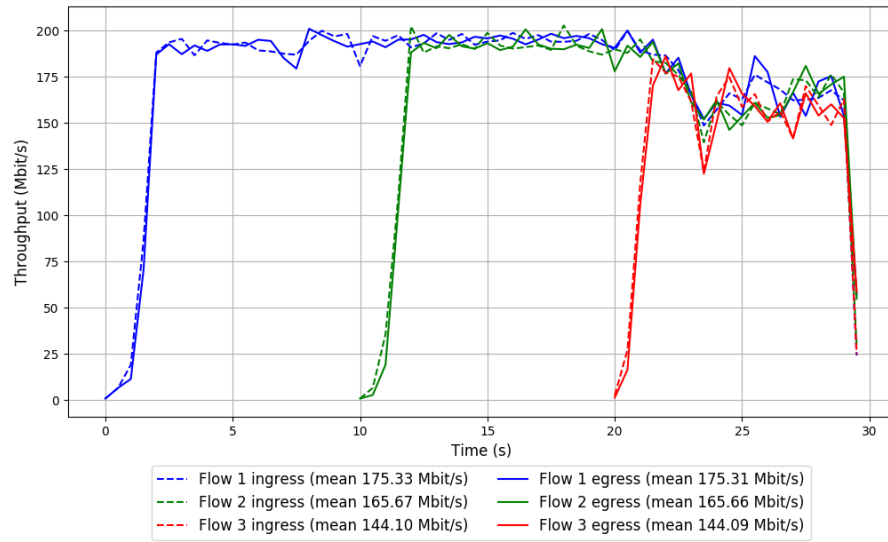
-- Flow 3:

Average throughput: 144.09 Mbit/s

95th percentile per-packet one-way delay: 107.452 ms

Loss rate: 0.01%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-16 21:19:17

End at: 2017-11-16 21:19:47

Below is generated by plot.py at 2017-11-16 23:33:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 321.81 Mbit/s

95th percentile per-packet one-way delay: 99.562 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 176.90 Mbit/s

95th percentile per-packet one-way delay: 97.281 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 148.17 Mbit/s

95th percentile per-packet one-way delay: 99.357 ms

Loss rate: 0.03%

-- Flow 3:

Average throughput: 144.49 Mbit/s

95th percentile per-packet one-way delay: 103.446 ms

Loss rate: 0.04%

Run 10: Report of Indigo-calib — Data Link

