

Pantheon Report

Generated at 2017-11-16 22:39:36 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

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

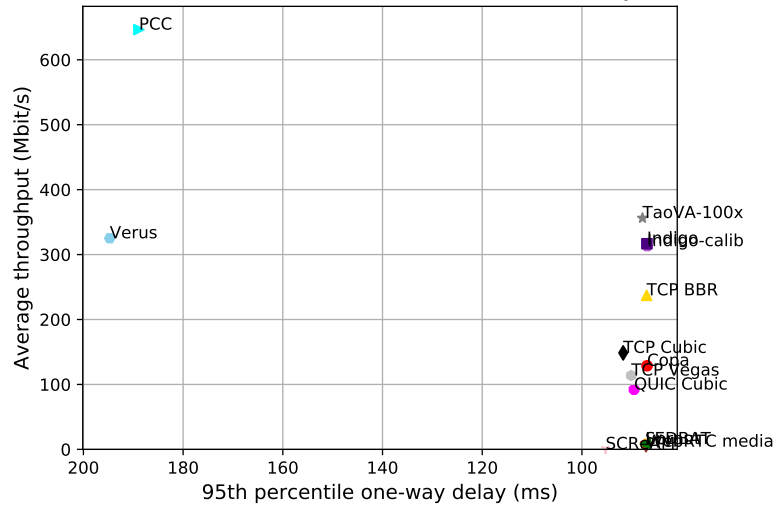
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

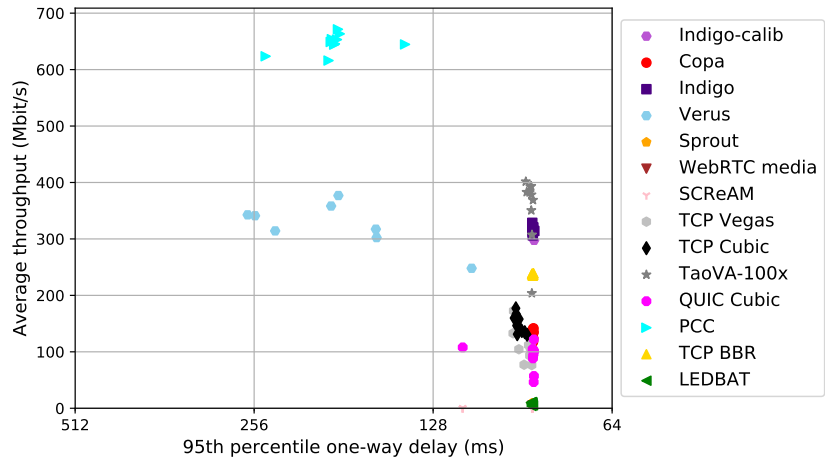
Git summary:

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

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



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



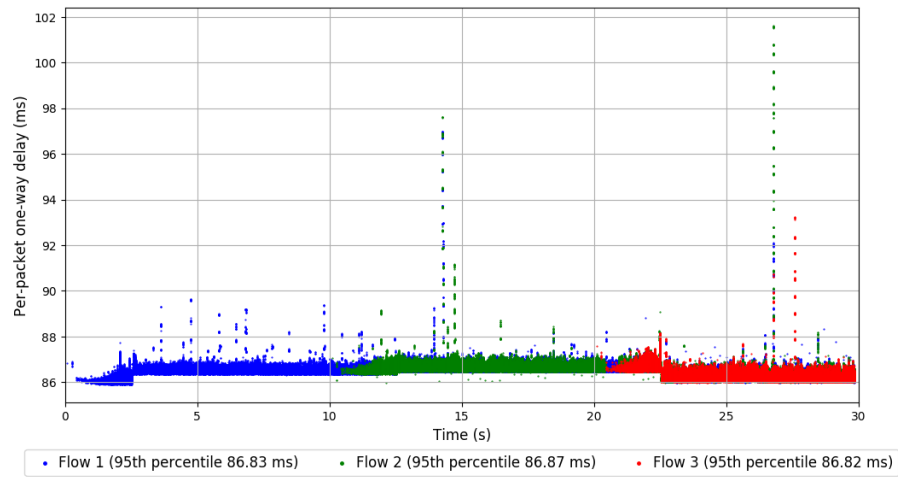
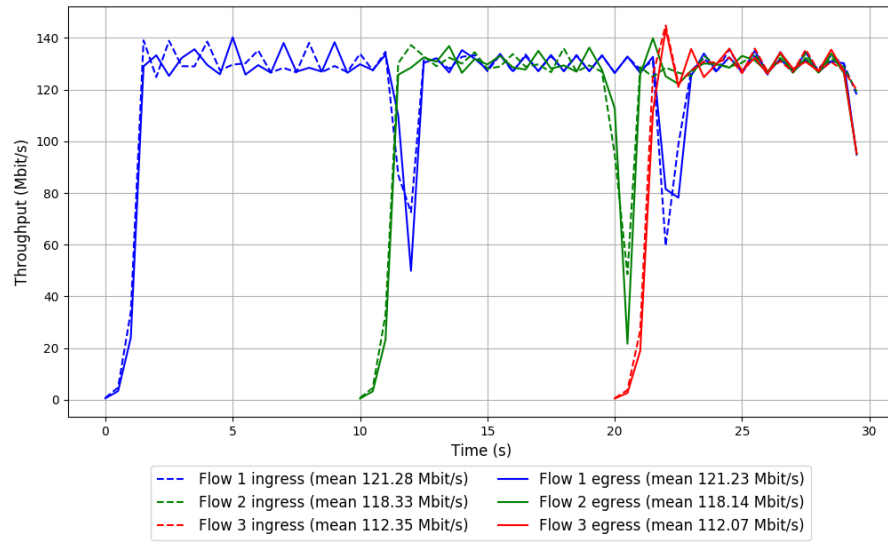
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	121.64	118.74	112.33	87.00	87.01	87.09	0.63	0.95	1.99
TCP Cubic	10	82.34	71.53	57.36	91.68	91.13	89.97	0.60	0.90	2.76
LEDBAT	10	4.97	3.75	2.13	87.31	87.23	87.23	1.15	1.69	3.00
PCC	10	600.91	50.14	38.00	189.23	180.65	164.17	2.36	1.93	3.07
QUIC Cubic	10	46.80	49.66	34.97	86.83	89.45	89.47	0.58	0.84	1.65
SCReAM	10	0.22	0.21	0.22	89.65	92.41	92.23	0.56	0.84	1.46
WebRTC media	5	1.88	1.66	0.61	86.93	87.00	92.46	1.05	0.80	2.67
Sprout	10	4.09	4.16	3.47	87.29	87.33	87.30	0.61	0.99	2.34
TaoVA-100x	10	191.83	198.79	159.94	90.38	87.45	92.78	0.46	0.84	2.38
TCP Vegas	10	52.45	68.00	49.32	89.56	89.88	90.39	0.55	0.89	1.99
Verus	8	200.11	150.66	77.60	163.67	201.11	189.94	1.52	4.04	5.55
Copa	10	77.66	57.76	50.59	86.84	92.30	88.38	0.48	0.77	7.62
Indigo	10	169.63	154.64	138.55	86.83	87.25	87.03	0.54	0.85	2.05
Indigo-calib	7	167.77	155.14	131.68	86.85	86.96	87.04	0.52	0.93	2.16

```
Run 1: Statistics of TCP BBR

Start at: 2017-11-16 17:18:32
End at: 2017-11-16 17:19:02

# Below is generated by plot.py at 2017-11-16 21:39:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 236.34 Mbit/s
95th percentile per-packet one-way delay: 86.843 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 121.23 Mbit/s
95th percentile per-packet one-way delay: 86.826 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 118.14 Mbit/s
95th percentile per-packet one-way delay: 86.870 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 112.07 Mbit/s
95th percentile per-packet one-way delay: 86.816 ms
Loss rate: 2.00%
```


Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-16 17:31:56

End at: 2017-11-16 17:32:26

Below is generated by plot.py at 2017-11-16 21:39:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 238.65 Mbit/s

95th percentile per-packet one-way delay: 87.244 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 122.92 Mbit/s

95th percentile per-packet one-way delay: 87.172 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 118.76 Mbit/s

95th percentile per-packet one-way delay: 87.239 ms

Loss rate: 0.93%

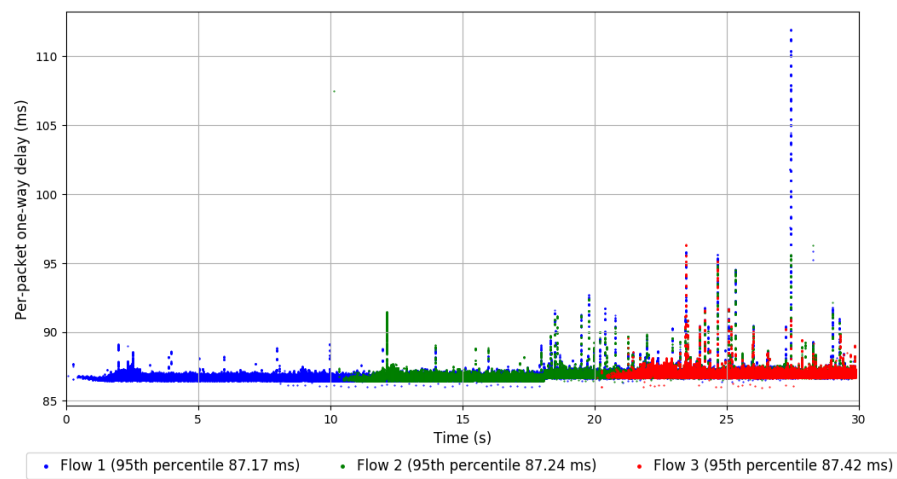
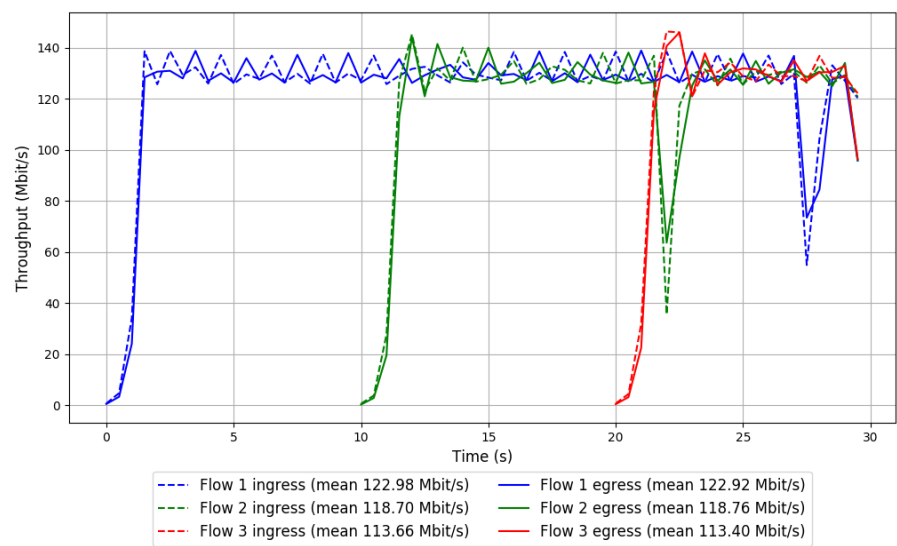
-- Flow 3:

Average throughput: 113.40 Mbit/s

95th percentile per-packet one-way delay: 87.422 ms

Loss rate: 1.98%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-16 17:45:21

End at: 2017-11-16 17:45:51

Below is generated by plot.py at 2017-11-16 21:39:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 239.02 Mbit/s

95th percentile per-packet one-way delay: 86.813 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 123.02 Mbit/s

95th percentile per-packet one-way delay: 86.797 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 119.63 Mbit/s

95th percentile per-packet one-way delay: 86.827 ms

Loss rate: 0.93%

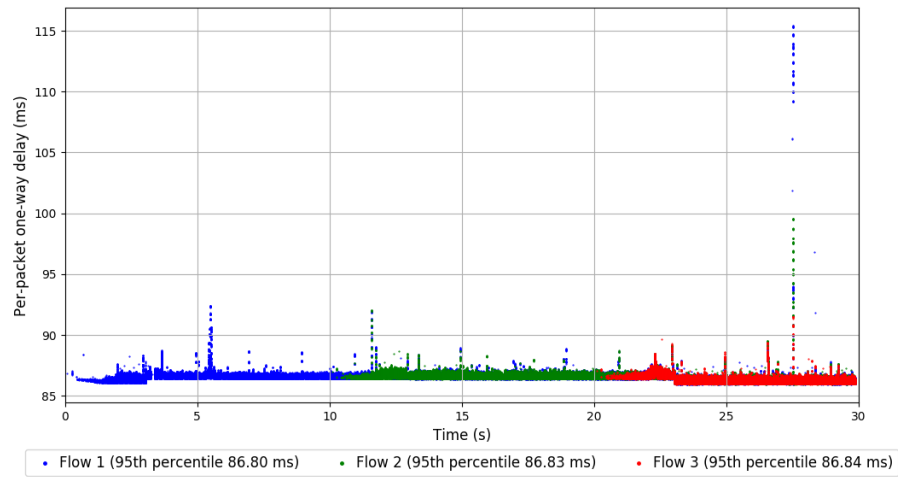
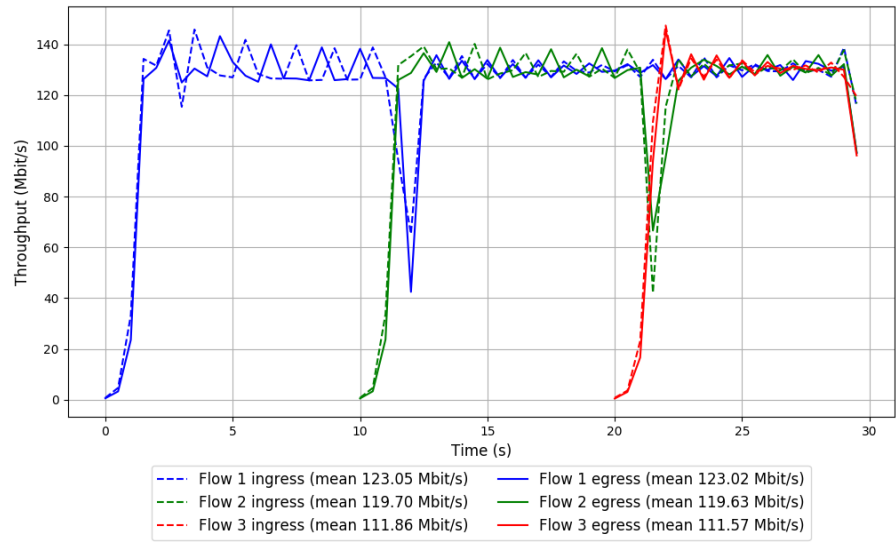
-- Flow 3:

Average throughput: 111.57 Mbit/s

95th percentile per-packet one-way delay: 86.841 ms

Loss rate: 2.01%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-16 17:58:40

End at: 2017-11-16 17:59:10

Below is generated by plot.py at 2017-11-16 21:39:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 238.02 Mbit/s

95th percentile per-packet one-way delay: 87.248 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 122.48 Mbit/s

95th percentile per-packet one-way delay: 87.198 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 118.19 Mbit/s

95th percentile per-packet one-way delay: 87.242 ms

Loss rate: 0.94%

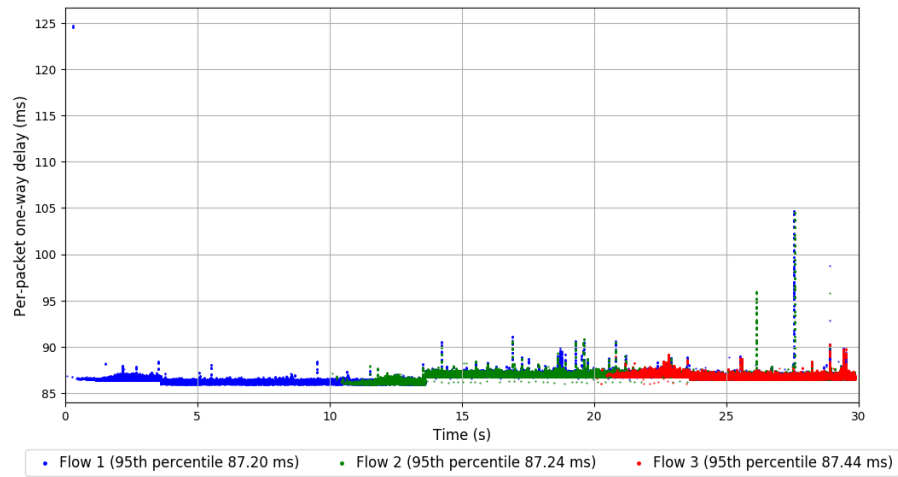
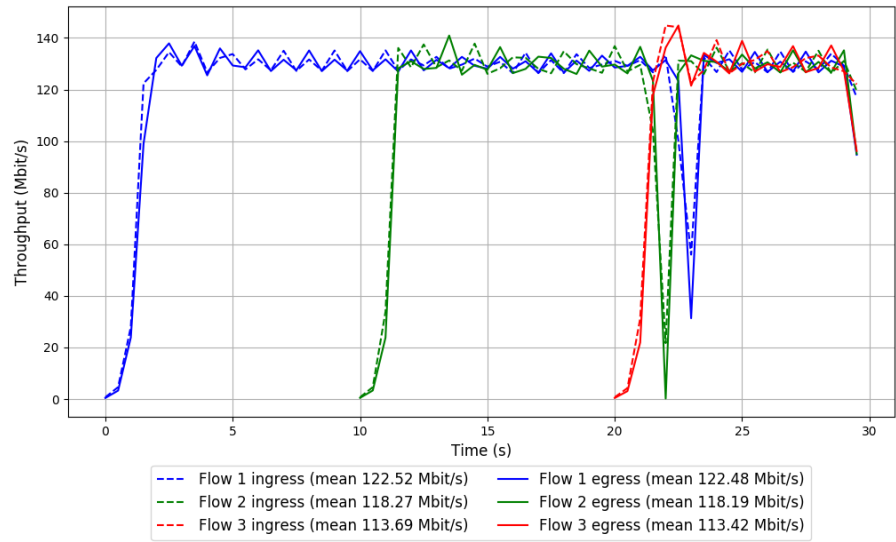
-- Flow 3:

Average throughput: 113.42 Mbit/s

95th percentile per-packet one-way delay: 87.437 ms

Loss rate: 1.98%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-16 18:11:38

End at: 2017-11-16 18:12:08

Below is generated by plot.py at 2017-11-16 21:39:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 237.50 Mbit/s

95th percentile per-packet one-way delay: 87.030 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 121.37 Mbit/s

95th percentile per-packet one-way delay: 87.044 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 119.42 Mbit/s

95th percentile per-packet one-way delay: 86.985 ms

Loss rate: 0.95%

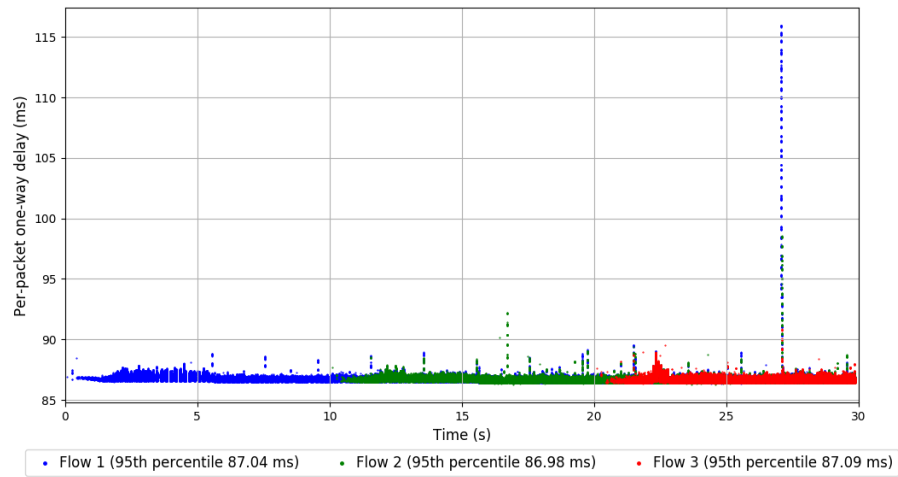
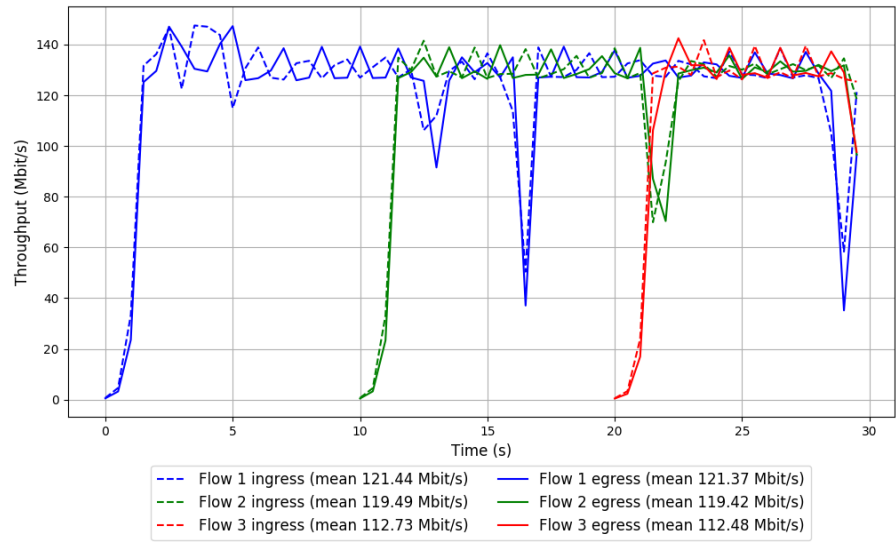
-- Flow 3:

Average throughput: 112.48 Mbit/s

95th percentile per-packet one-way delay: 87.086 ms

Loss rate: 1.97%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-16 18:25:00

End at: 2017-11-16 18:25:30

Below is generated by plot.py at 2017-11-16 21:39:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 234.97 Mbit/s

95th percentile per-packet one-way delay: 87.046 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 119.58 Mbit/s

95th percentile per-packet one-way delay: 86.988 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 117.97 Mbit/s

95th percentile per-packet one-way delay: 87.029 ms

Loss rate: 0.98%

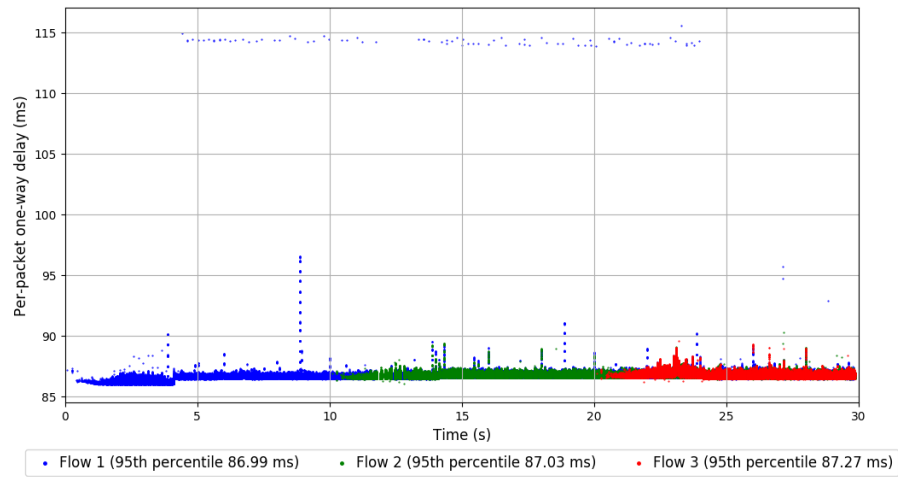
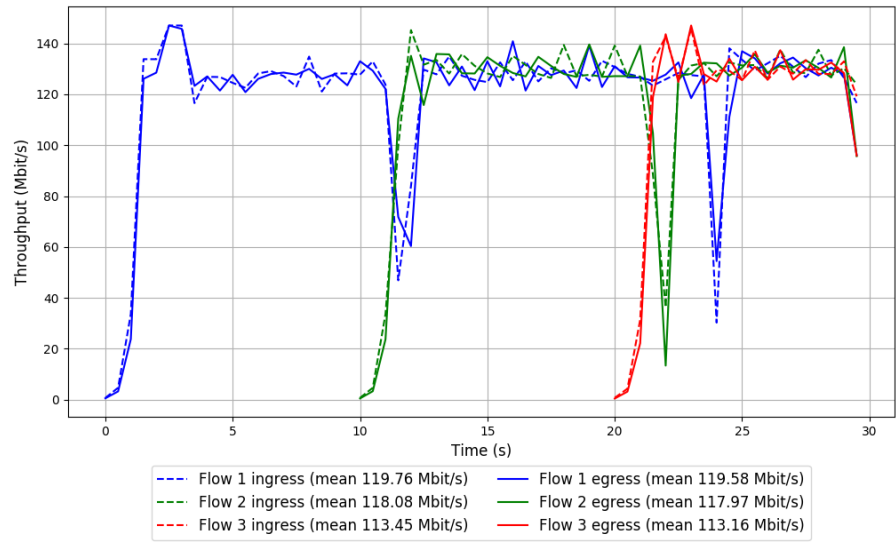
-- Flow 3:

Average throughput: 113.16 Mbit/s

95th percentile per-packet one-way delay: 87.272 ms

Loss rate: 2.07%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-11-16 18:38:15

End at: 2017-11-16 18:38:45

Below is generated by plot.py at 2017-11-16 21:39:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 235.82 Mbit/s

95th percentile per-packet one-way delay: 86.969 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 121.40 Mbit/s

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

Loss rate: 0.61%

-- Flow 2:

Average throughput: 116.53 Mbit/s

95th percentile per-packet one-way delay: 86.965 ms

Loss rate: 0.98%

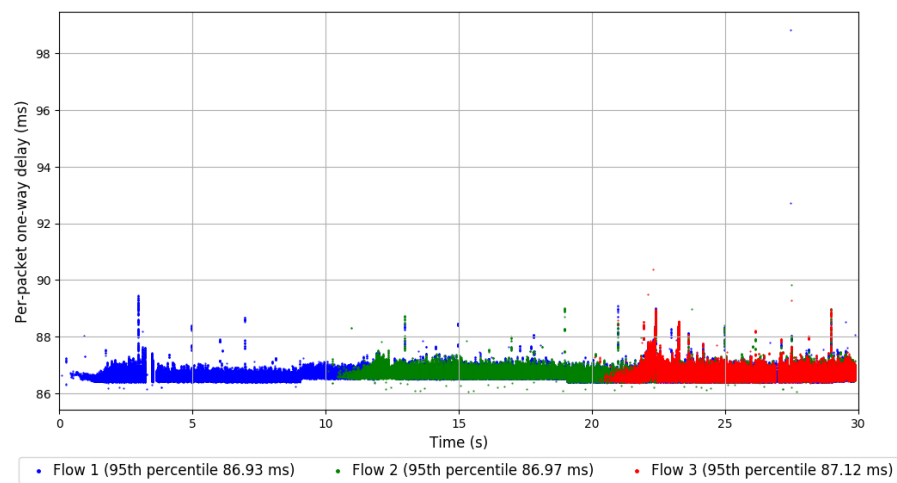
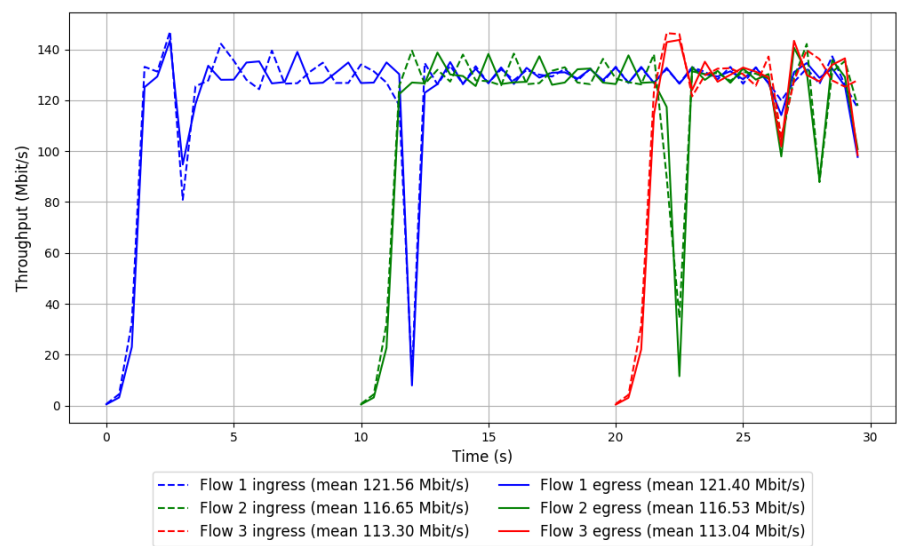
-- Flow 3:

Average throughput: 113.04 Mbit/s

95th percentile per-packet one-way delay: 87.124 ms

Loss rate: 1.98%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-16 18:51:37

End at: 2017-11-16 18:52:07

Below is generated by plot.py at 2017-11-16 21:39:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 239.24 Mbit/s

95th percentile per-packet one-way delay: 86.832 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 121.71 Mbit/s

95th percentile per-packet one-way delay: 86.845 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 121.56 Mbit/s

95th percentile per-packet one-way delay: 86.848 ms

Loss rate: 0.93%

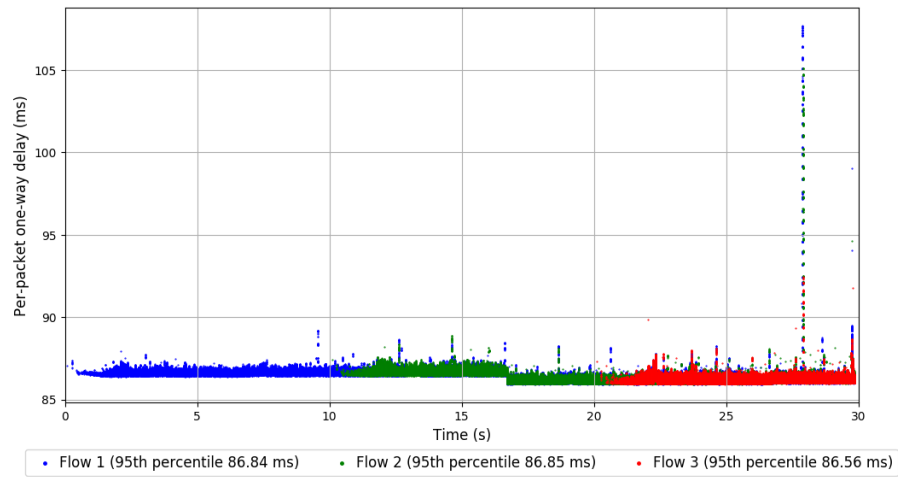
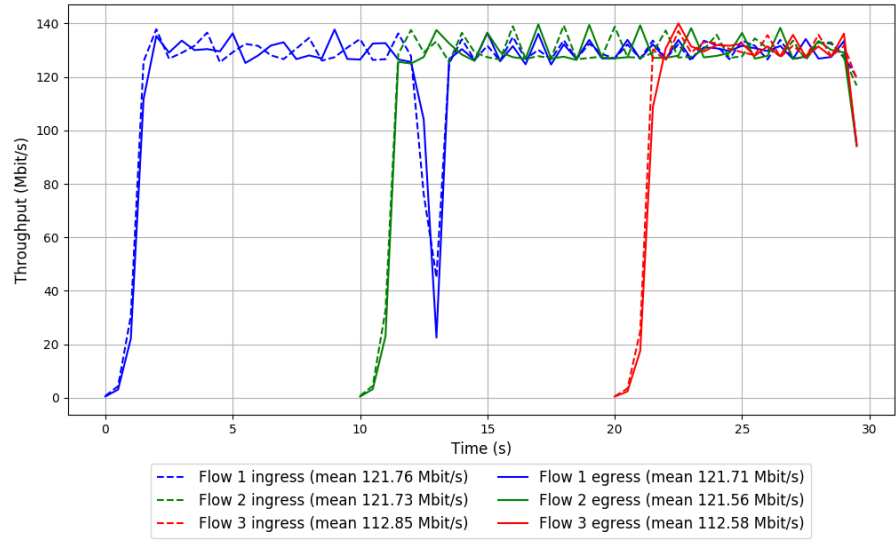
-- Flow 3:

Average throughput: 112.58 Mbit/s

95th percentile per-packet one-way delay: 86.558 ms

Loss rate: 1.99%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-16 19:04:49

End at: 2017-11-16 19:05:19

Below is generated by plot.py at 2017-11-16 21:43:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 237.24 Mbit/s

95th percentile per-packet one-way delay: 87.250 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 122.29 Mbit/s

95th percentile per-packet one-way delay: 87.241 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 118.49 Mbit/s

95th percentile per-packet one-way delay: 87.205 ms

Loss rate: 0.94%

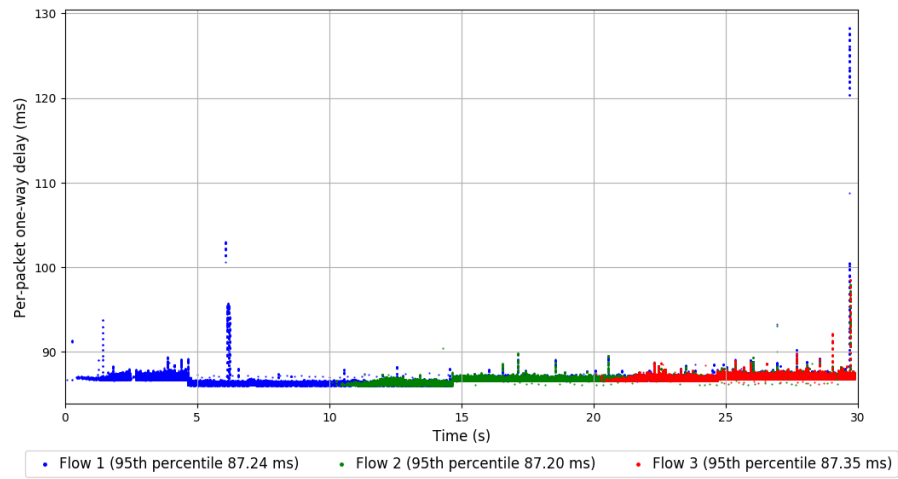
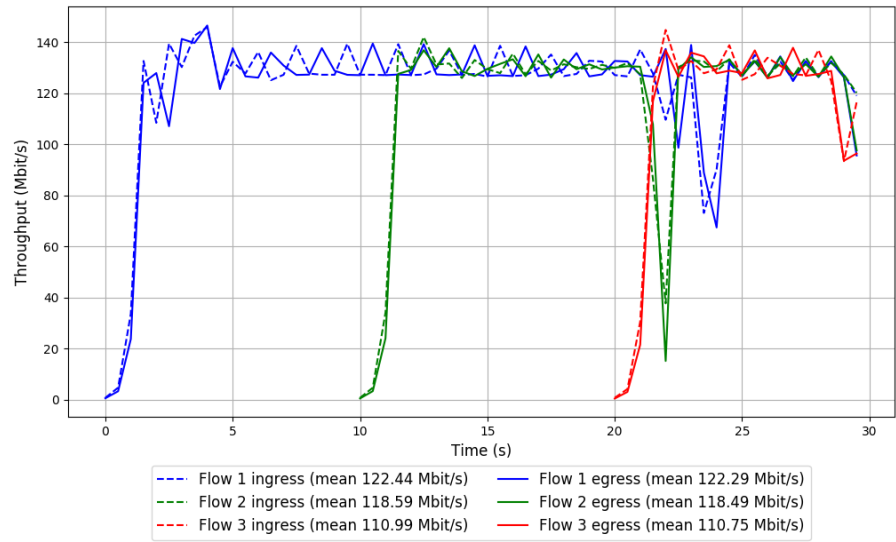
-- Flow 3:

Average throughput: 110.75 Mbit/s

95th percentile per-packet one-way delay: 87.349 ms

Loss rate: 1.97%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-16 19:17:59

End at: 2017-11-16 19:18:29

Below is generated by plot.py at 2017-11-16 21:43:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 235.49 Mbit/s

95th percentile per-packet one-way delay: 86.948 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 120.38 Mbit/s

95th percentile per-packet one-way delay: 86.969 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 118.66 Mbit/s

95th percentile per-packet one-way delay: 86.893 ms

Loss rate: 0.94%

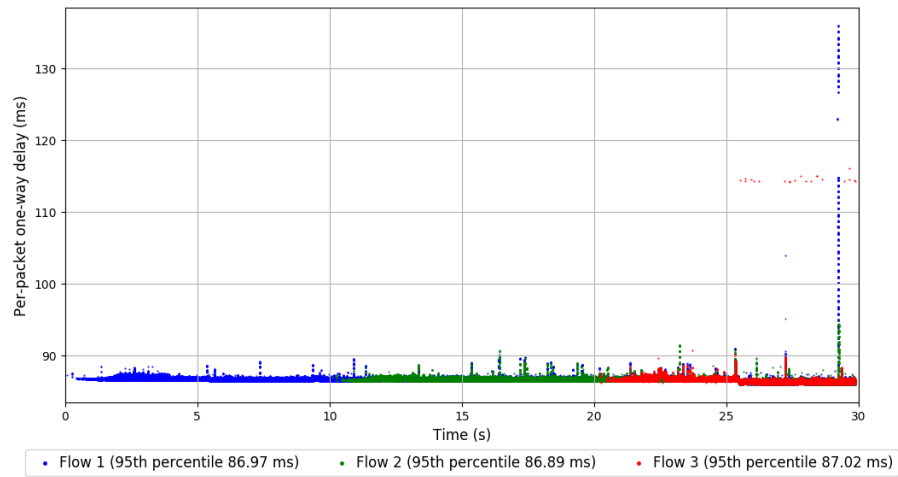
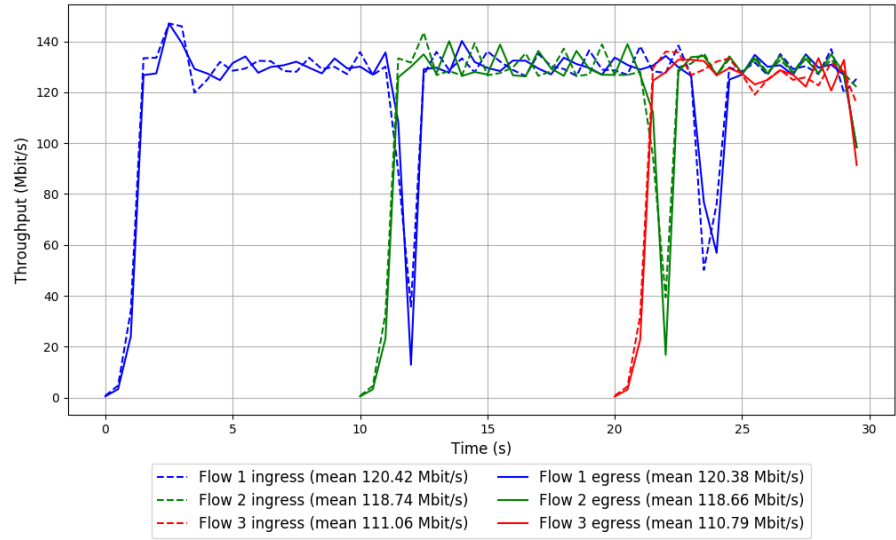
-- Flow 3:

Average throughput: 110.79 Mbit/s

95th percentile per-packet one-way delay: 87.021 ms

Loss rate: 1.99%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-11-16 17:11:37

End at: 2017-11-16 17:12:07

Below is generated by plot.py at 2017-11-16 21:43:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 157.93 Mbit/s

95th percentile per-packet one-way delay: 91.731 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 88.90 Mbit/s

95th percentile per-packet one-way delay: 91.892 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 72.47 Mbit/s

95th percentile per-packet one-way delay: 90.514 ms

Loss rate: 1.12%

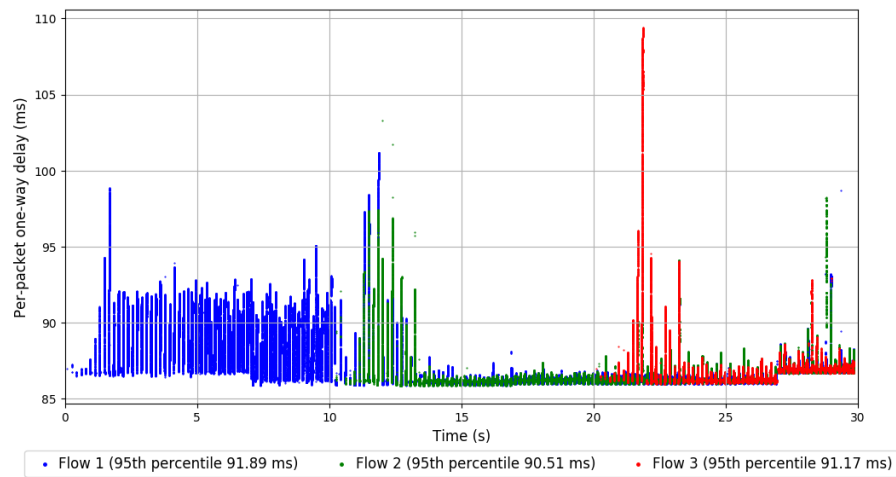
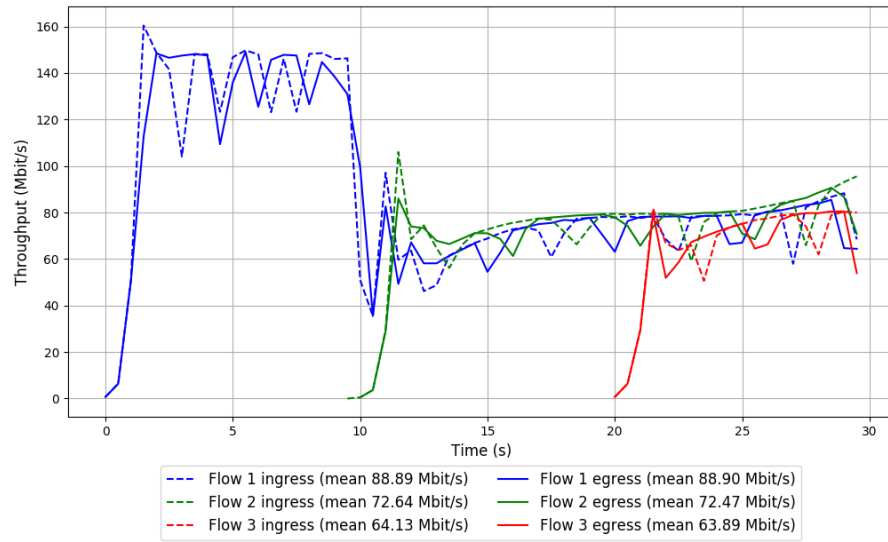
-- Flow 3:

Average throughput: 63.89 Mbit/s

95th percentile per-packet one-way delay: 91.170 ms

Loss rate: 2.12%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-16 17:24:53

End at: 2017-11-16 17:25:23

Below is generated by plot.py at 2017-11-16 21:43:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 136.85 Mbit/s

95th percentile per-packet one-way delay: 90.775 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 68.88 Mbit/s

95th percentile per-packet one-way delay: 91.360 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 64.08 Mbit/s

95th percentile per-packet one-way delay: 90.434 ms

Loss rate: 0.82%

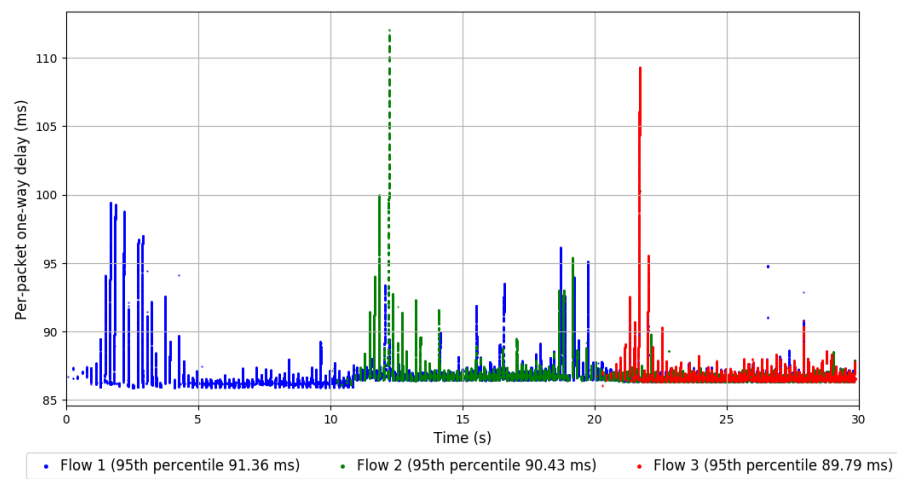
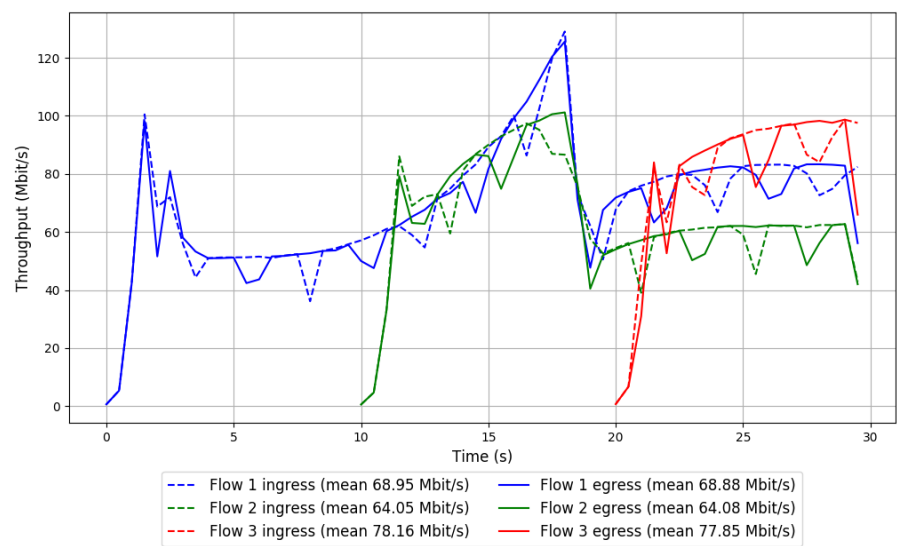
-- Flow 3:

Average throughput: 77.85 Mbit/s

95th percentile per-packet one-way delay: 89.791 ms

Loss rate: 2.12%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-16 17:38:19

End at: 2017-11-16 17:38:49

Below is generated by plot.py at 2017-11-16 21:43:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 167.20 Mbit/s

95th percentile per-packet one-way delay: 92.808 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 87.92 Mbit/s

95th percentile per-packet one-way delay: 93.347 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 83.21 Mbit/s

95th percentile per-packet one-way delay: 89.558 ms

Loss rate: 1.09%

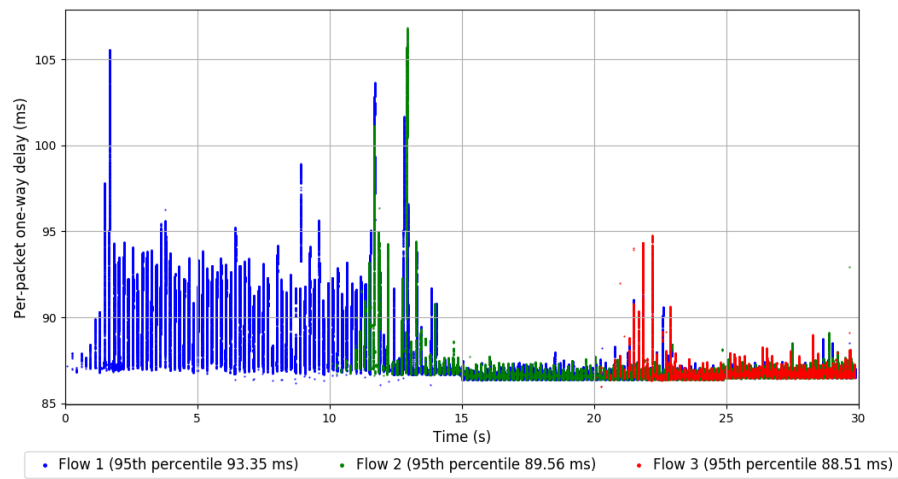
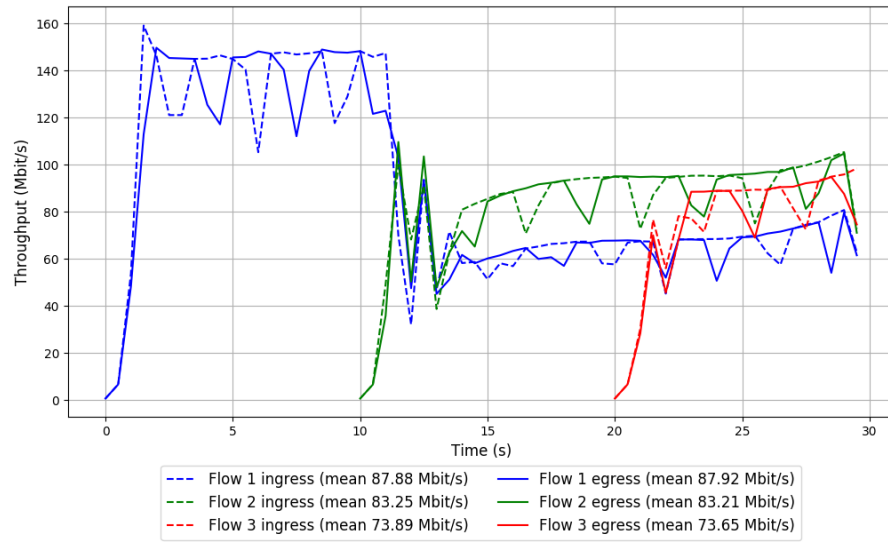
-- Flow 3:

Average throughput: 73.65 Mbit/s

95th percentile per-packet one-way delay: 88.508 ms

Loss rate: 2.25%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-16 17:51:42

End at: 2017-11-16 17:52:12

Below is generated by plot.py at 2017-11-16 21:43:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 130.27 Mbit/s

95th percentile per-packet one-way delay: 88.957 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 71.76 Mbit/s

95th percentile per-packet one-way delay: 89.554 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 62.35 Mbit/s

95th percentile per-packet one-way delay: 88.189 ms

Loss rate: 0.90%

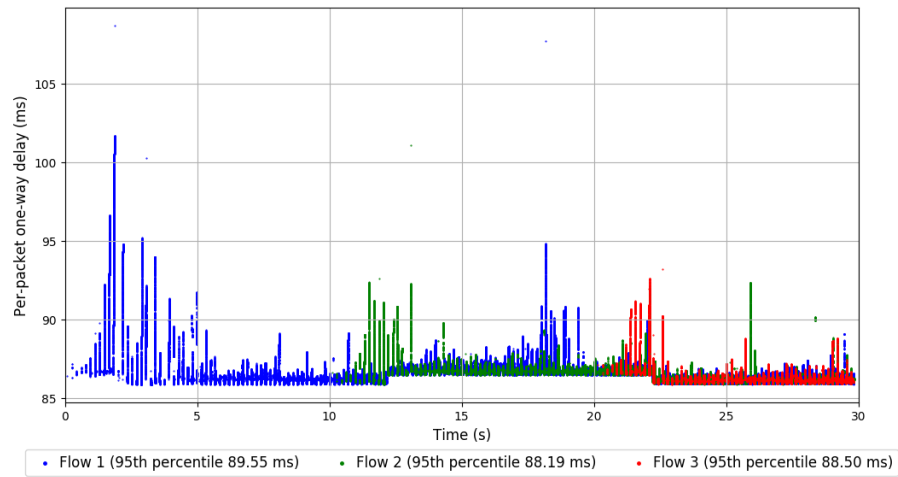
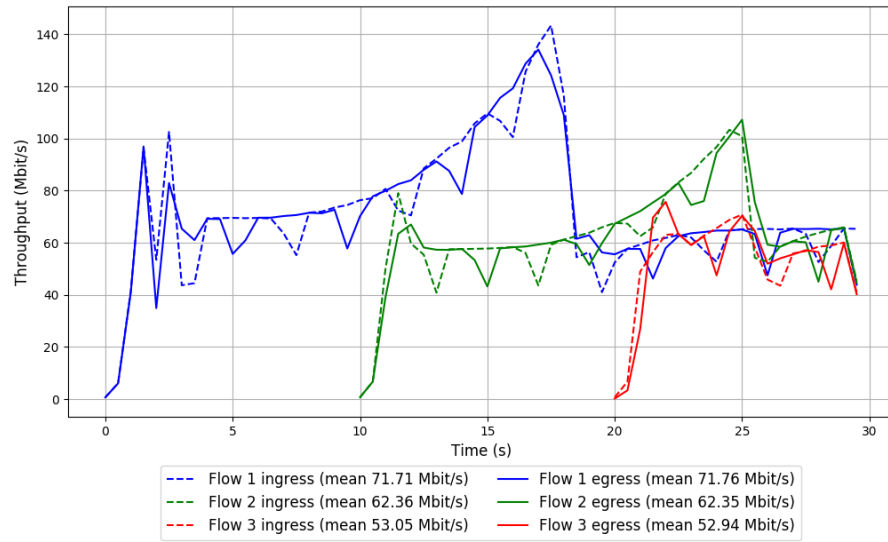
-- Flow 3:

Average throughput: 52.94 Mbit/s

95th percentile per-packet one-way delay: 88.496 ms

Loss rate: 1.96%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-16 18:04:54

End at: 2017-11-16 18:05:25

Below is generated by plot.py at 2017-11-16 21:43:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 143.88 Mbit/s

95th percentile per-packet one-way delay: 91.754 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 69.17 Mbit/s

95th percentile per-packet one-way delay: 91.780 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 70.13 Mbit/s

95th percentile per-packet one-way delay: 92.132 ms

Loss rate: 0.61%

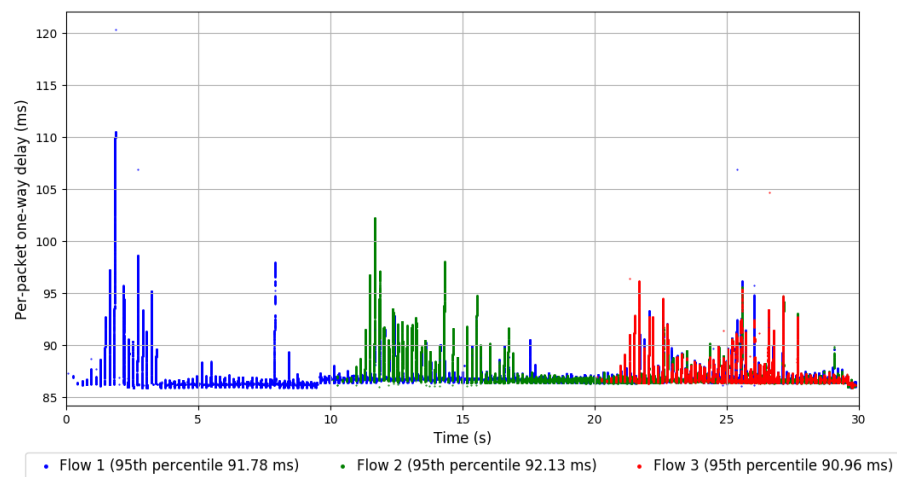
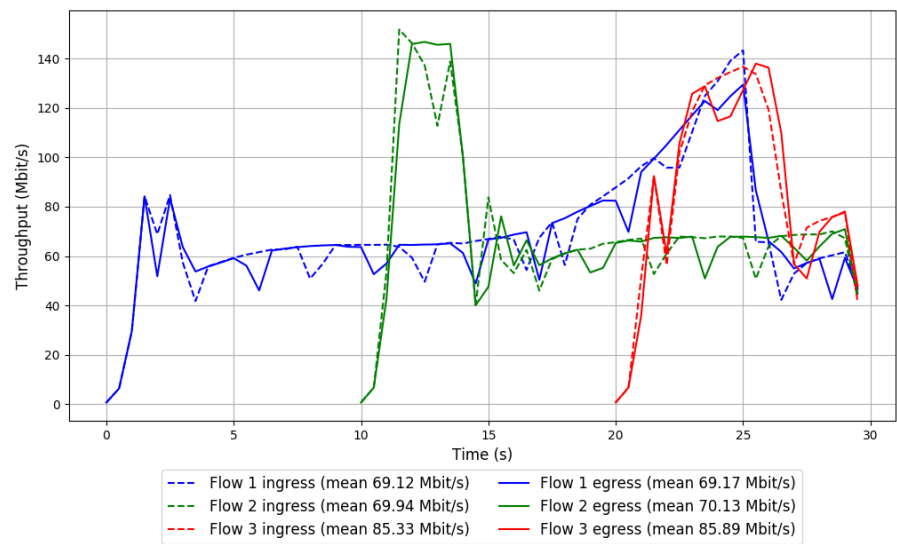
-- Flow 3:

Average throughput: 85.89 Mbit/s

95th percentile per-packet one-way delay: 90.959 ms

Loss rate: 1.10%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-16 18:17:56

End at: 2017-11-16 18:18:26

Below is generated by plot.py at 2017-11-16 21:43:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.77 Mbit/s

95th percentile per-packet one-way delay: 89.765 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 73.09 Mbit/s

95th percentile per-packet one-way delay: 89.380 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 61.26 Mbit/s

95th percentile per-packet one-way delay: 89.606 ms

Loss rate: 1.17%

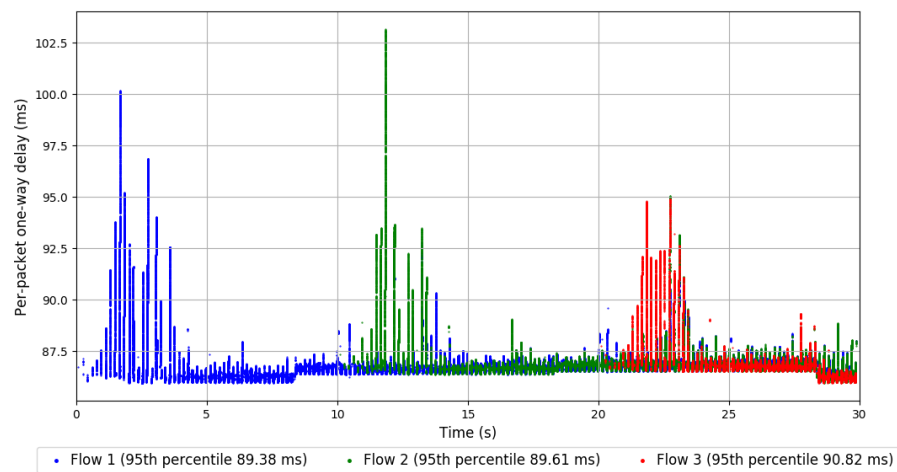
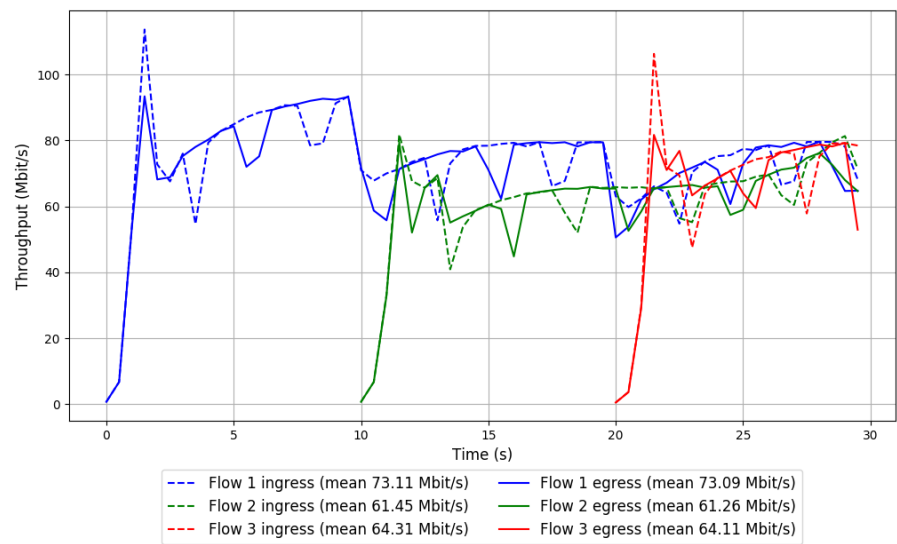
-- Flow 3:

Average throughput: 64.11 Mbit/s

95th percentile per-packet one-way delay: 90.816 ms

Loss rate: 2.07%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-16 18:31:15

End at: 2017-11-16 18:31:45

Below is generated by plot.py at 2017-11-16 21:44:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 146.48 Mbit/s

95th percentile per-packet one-way delay: 92.624 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 84.19 Mbit/s

95th percentile per-packet one-way delay: 90.915 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 92.62 Mbit/s

95th percentile per-packet one-way delay: 93.706 ms

Loss rate: 0.85%

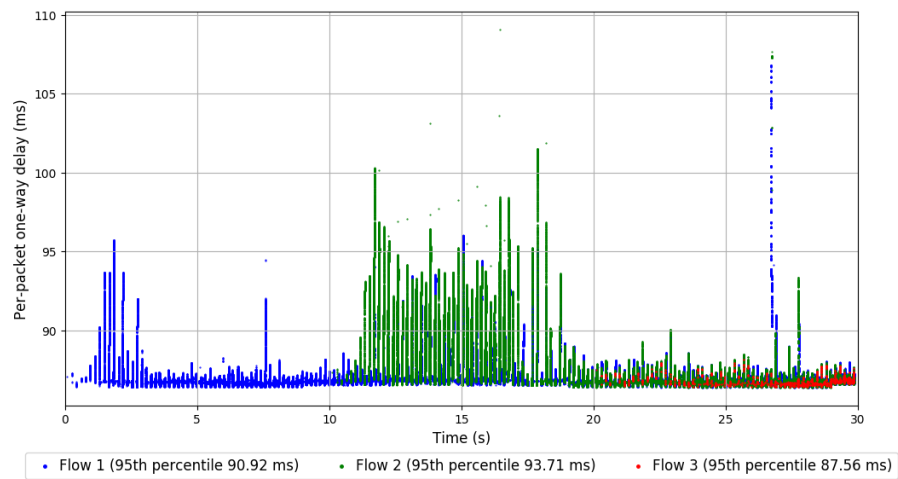
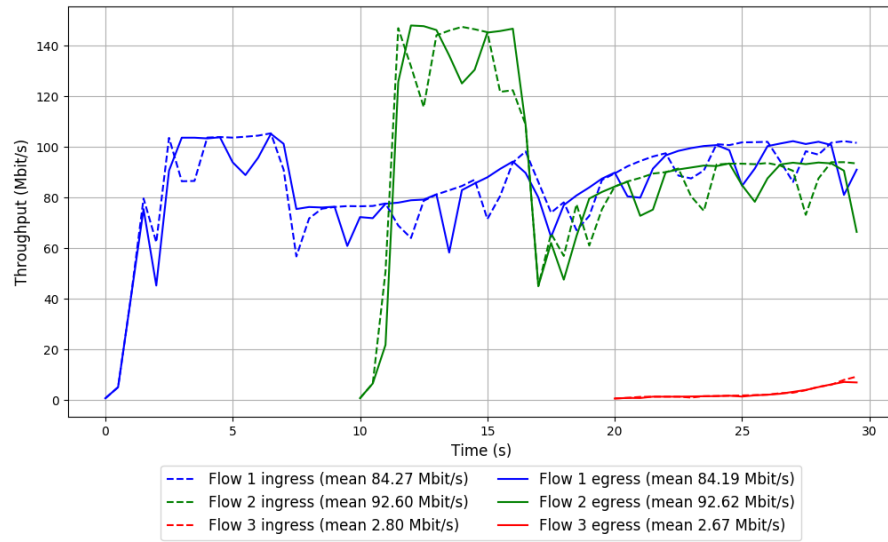
-- Flow 3:

Average throughput: 2.67 Mbit/s

95th percentile per-packet one-way delay: 87.562 ms

Loss rate: 6.30%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-16 18:44:41

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

Below is generated by plot.py at 2017-11-16 21:44:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 159.86 Mbit/s

95th percentile per-packet one-way delay: 93.524 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 82.59 Mbit/s

95th percentile per-packet one-way delay: 94.111 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 80.35 Mbit/s

95th percentile per-packet one-way delay: 93.483 ms

Loss rate: 0.71%

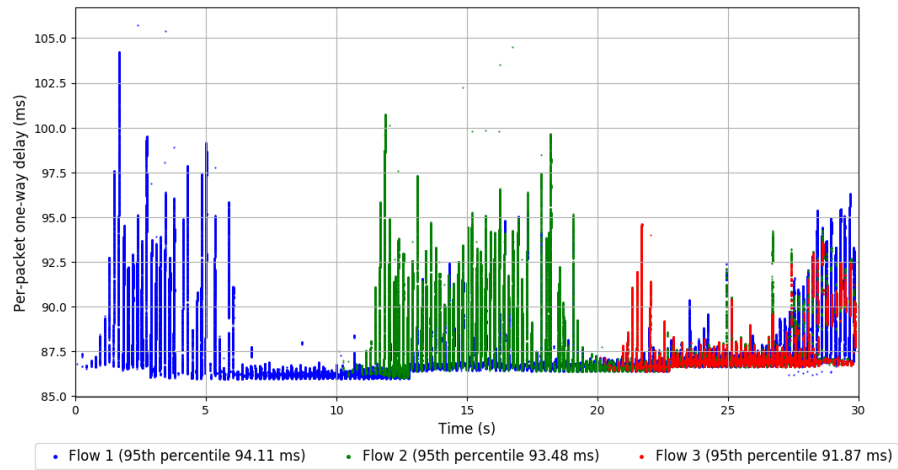
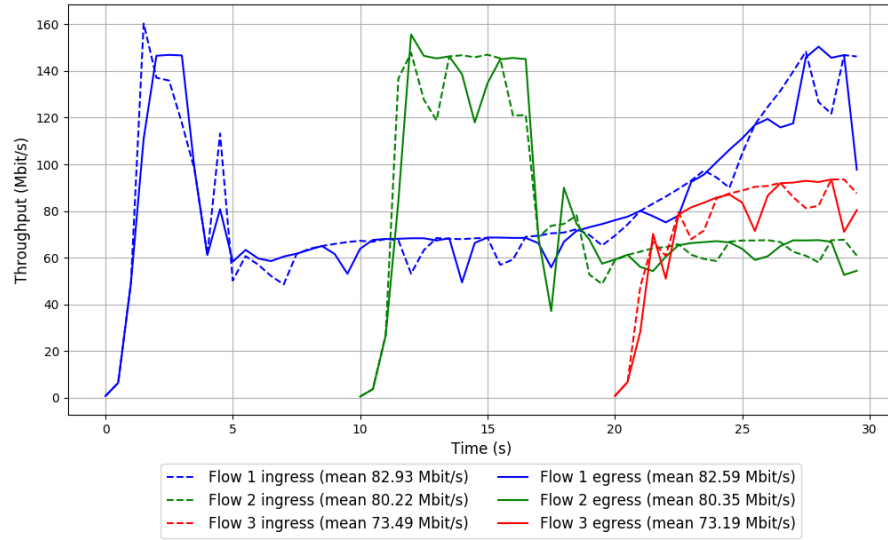
-- Flow 3:

Average throughput: 73.19 Mbit/s

95th percentile per-packet one-way delay: 91.868 ms

Loss rate: 2.14%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-16 18:57:50

End at: 2017-11-16 18:58:20

Below is generated by plot.py at 2017-11-16 21:44:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 177.08 Mbit/s

95th percentile per-packet one-way delay: 92.912 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 117.40 Mbit/s

95th percentile per-packet one-way delay: 93.038 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 52.21 Mbit/s

95th percentile per-packet one-way delay: 90.802 ms

Loss rate: 0.94%

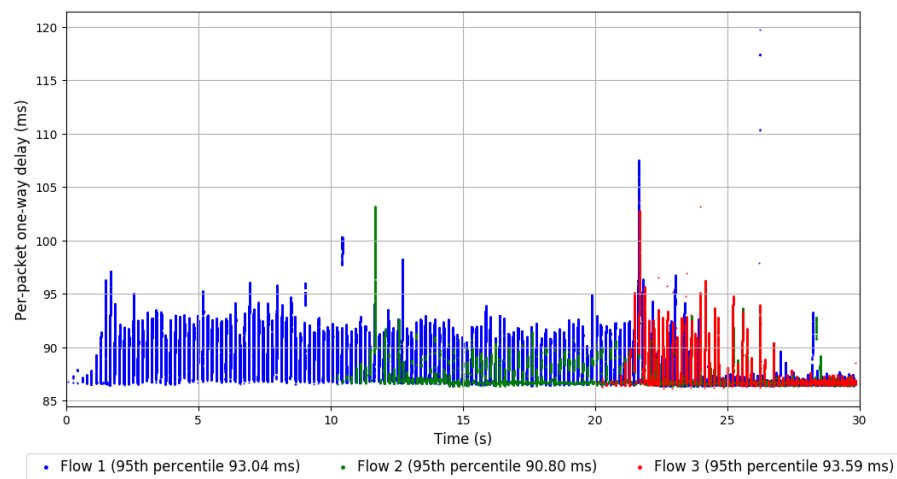
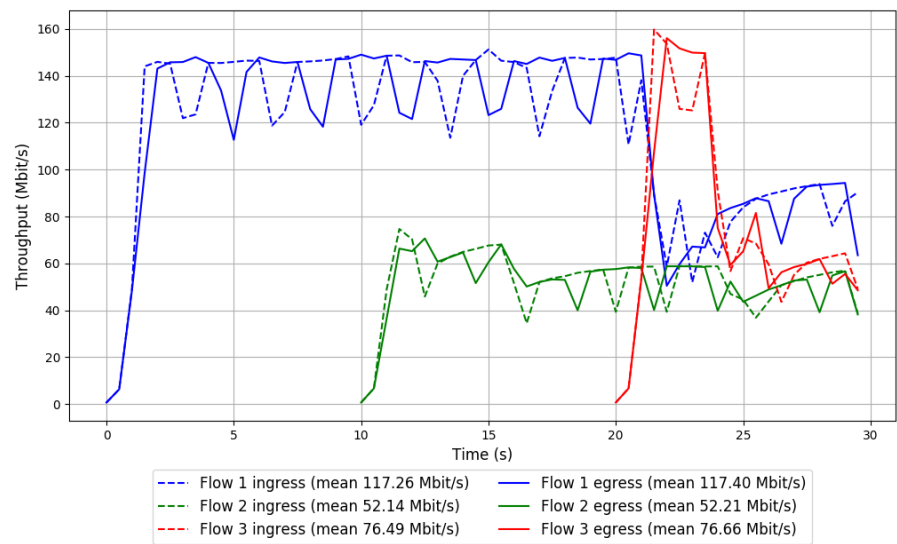
-- Flow 3:

Average throughput: 76.66 Mbit/s

95th percentile per-packet one-way delay: 93.588 ms

Loss rate: 1.43%

Run 9: Report of TCP Cubic — Data Link

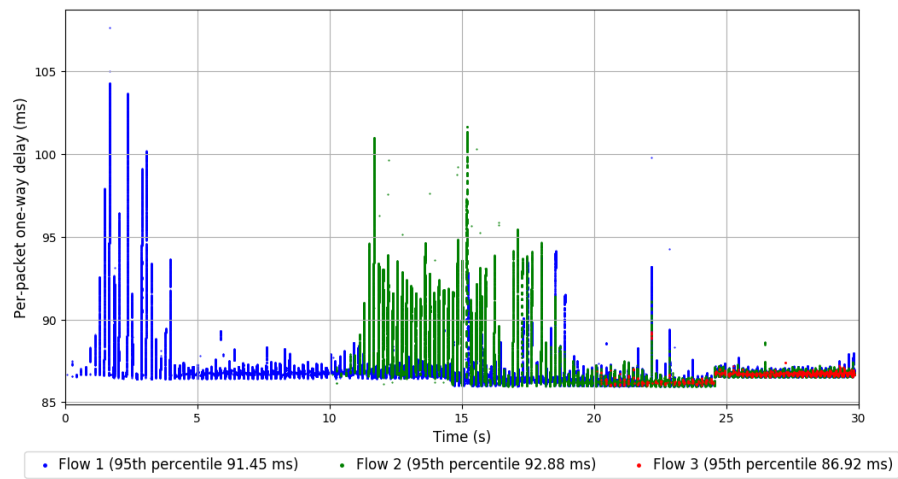
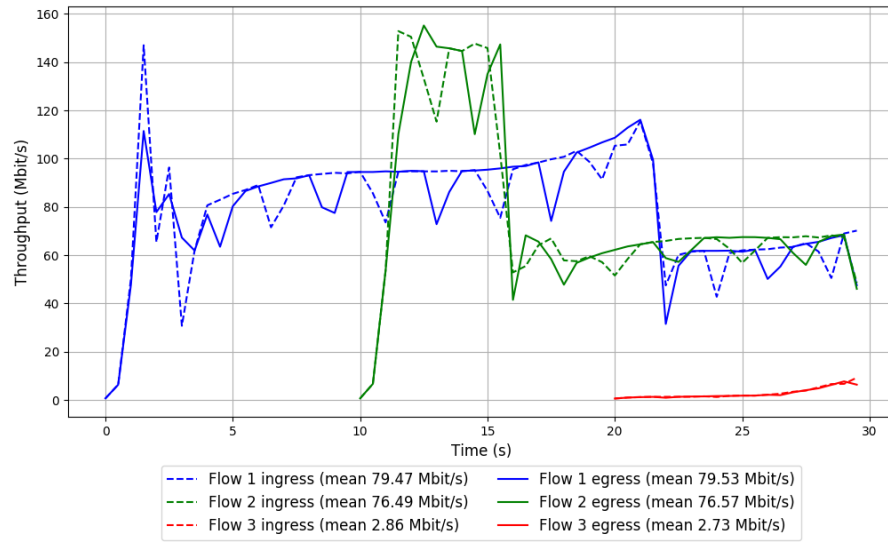


```
Run 10: Statistics of TCP Cubic

Start at: 2017-11-16 19:11:10
End at: 2017-11-16 19:11:40

# Below is generated by plot.py at 2017-11-16 21:44:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 131.19 Mbit/s
95th percentile per-packet one-way delay: 92.403 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 79.53 Mbit/s
95th percentile per-packet one-way delay: 91.454 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 76.57 Mbit/s
95th percentile per-packet one-way delay: 92.878 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 2.73 Mbit/s
95th percentile per-packet one-way delay: 86.916 ms
Loss rate: 6.13%
```

Run 10: Report of TCP Cubic — Data Link

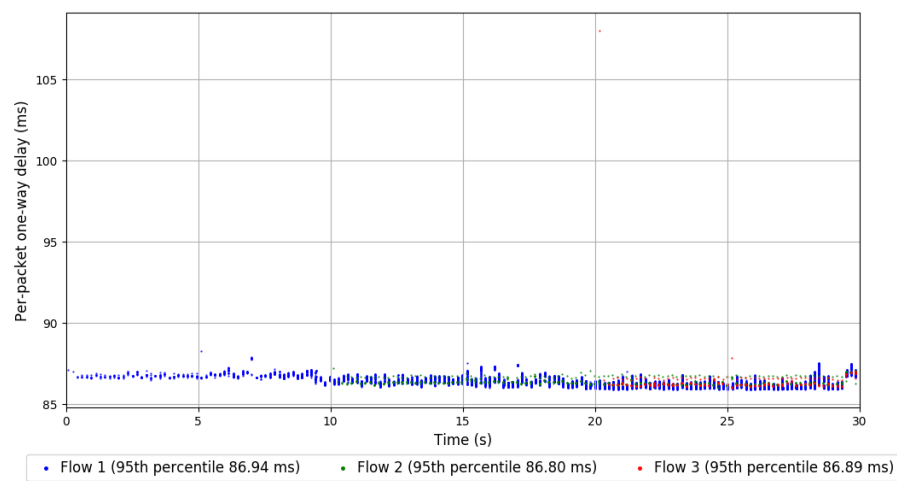
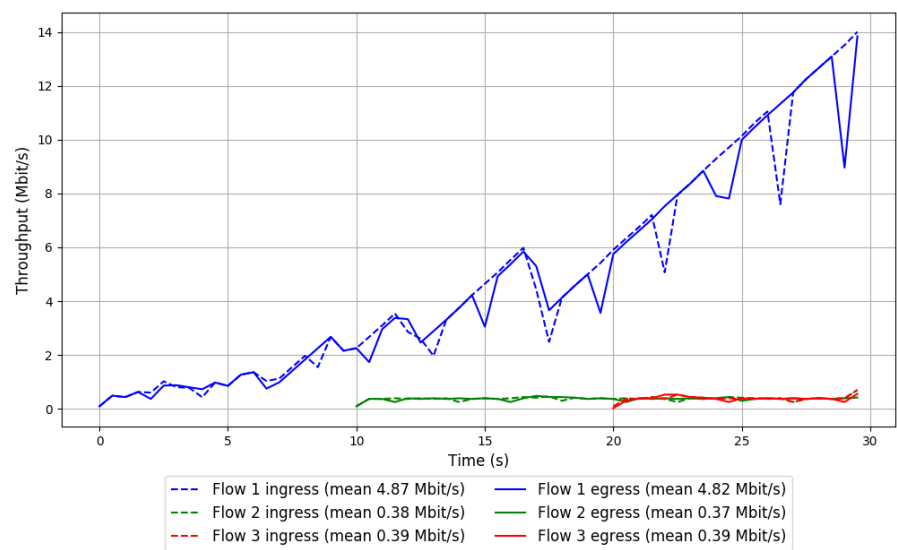


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-16 17:10:05
End at: 2017-11-16 17:10:35

# Below is generated by plot.py at 2017-11-16 21:44:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.19 Mbit/s
95th percentile per-packet one-way delay: 86.938 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 4.82 Mbit/s
95th percentile per-packet one-way delay: 86.942 ms
Loss rate: 1.62%
-- Flow 2:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 86.800 ms
Loss rate: 1.87%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 86.894 ms
Loss rate: 3.63%
```


Run 1: Report of LEDBAT — Data Link

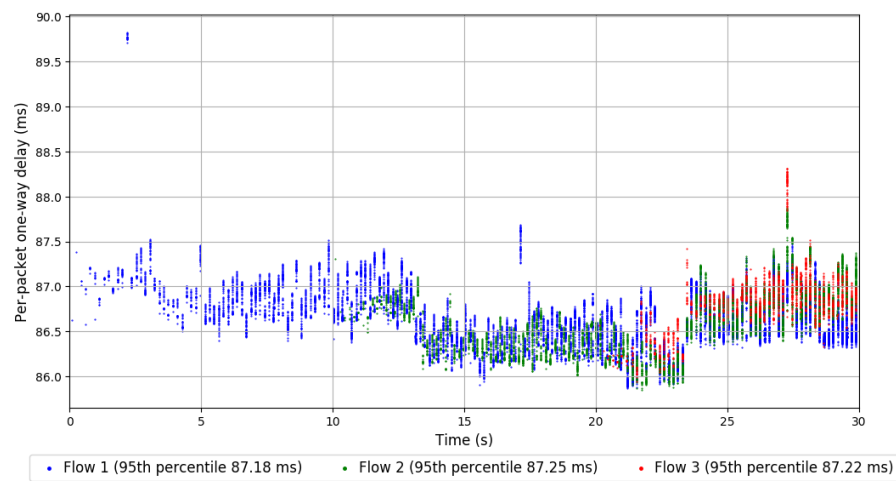
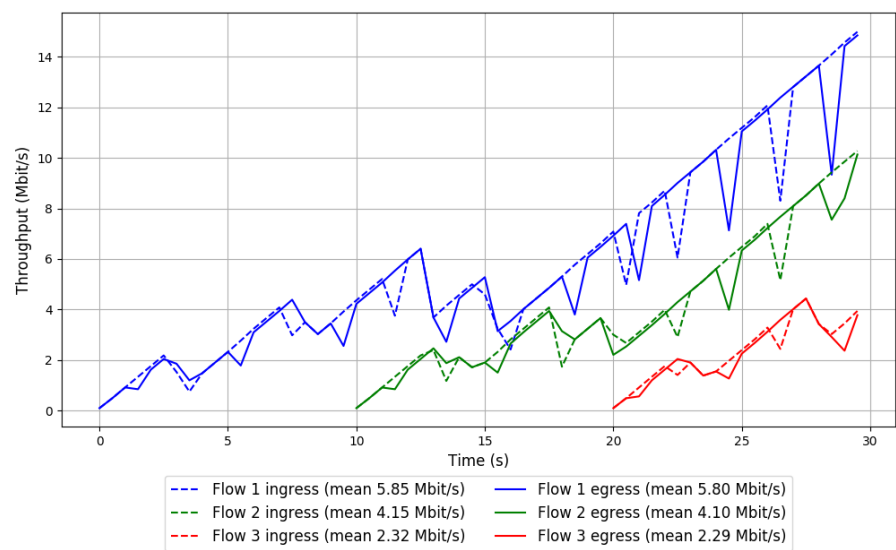


```
Run 2: Statistics of LEDBAT

Start at: 2017-11-16 17:23:21
End at: 2017-11-16 17:23:51

# Below is generated by plot.py at 2017-11-16 21:44:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.26 Mbit/s
95th percentile per-packet one-way delay: 87.203 ms
Loss rate: 1.76%
-- Flow 1:
Average throughput: 5.80 Mbit/s
95th percentile per-packet one-way delay: 87.183 ms
Loss rate: 1.44%
-- Flow 2:
Average throughput: 4.10 Mbit/s
95th percentile per-packet one-way delay: 87.247 ms
Loss rate: 2.10%
-- Flow 3:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 87.225 ms
Loss rate: 2.96%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-11-16 17:36:46

End at: 2017-11-16 17:37:16

Below is generated by plot.py at 2017-11-16 21:44:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.36 Mbit/s

95th percentile per-packet one-way delay: 87.440 ms

Loss rate: 1.79%

-- Flow 1:

Average throughput: 3.40 Mbit/s

95th percentile per-packet one-way delay: 87.509 ms

Loss rate: 1.59%

-- Flow 2:

Average throughput: 5.09 Mbit/s

95th percentile per-packet one-way delay: 87.398 ms

Loss rate: 2.00%

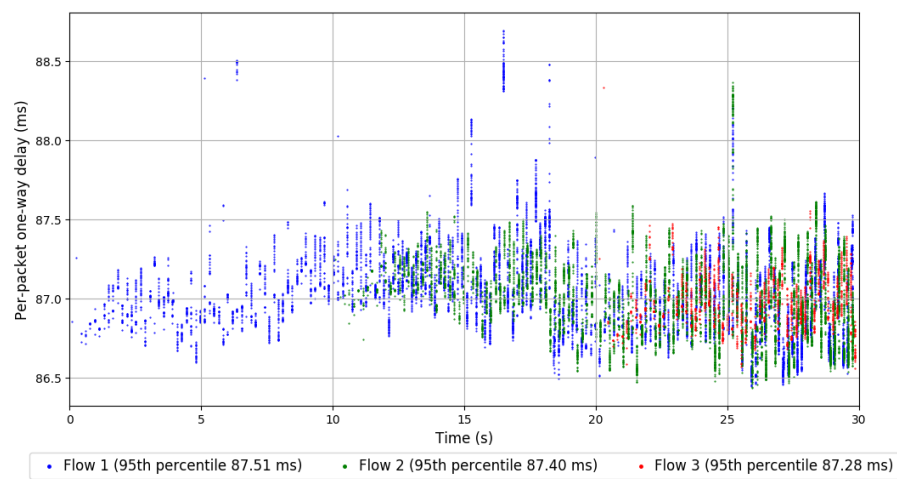
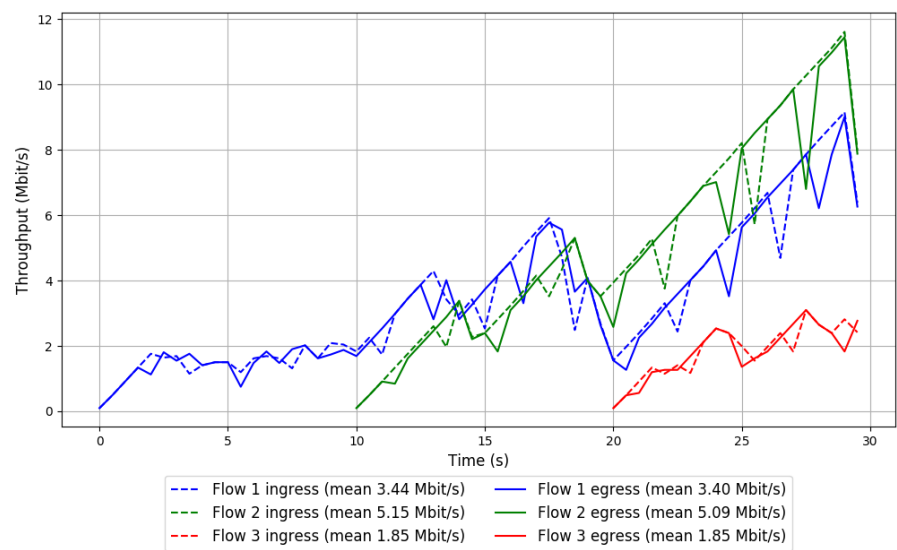
-- Flow 3:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 87.277 ms

Loss rate: 1.73%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-16 17:50:06

End at: 2017-11-16 17:50:36

Below is generated by plot.py at 2017-11-16 21:44:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.39 Mbit/s

95th percentile per-packet one-way delay: 87.138 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 3.87 Mbit/s

95th percentile per-packet one-way delay: 87.216 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 5.12 Mbit/s

95th percentile per-packet one-way delay: 87.002 ms

Loss rate: 1.88%

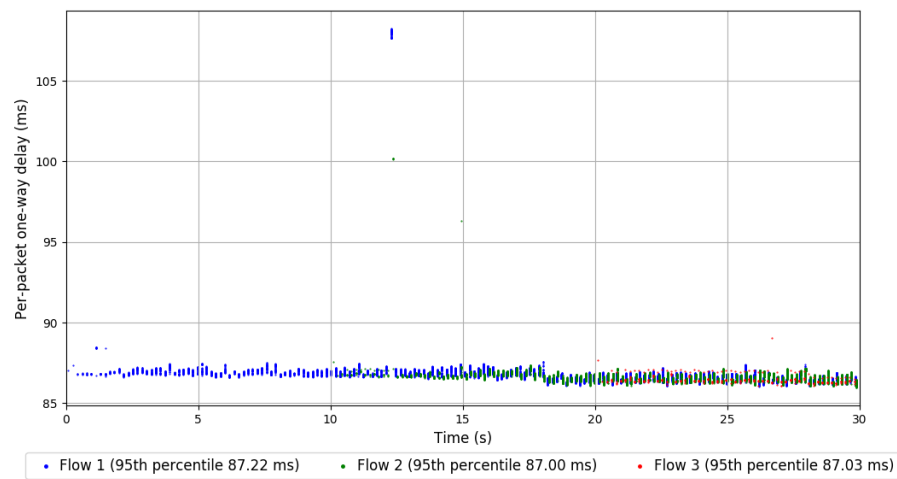
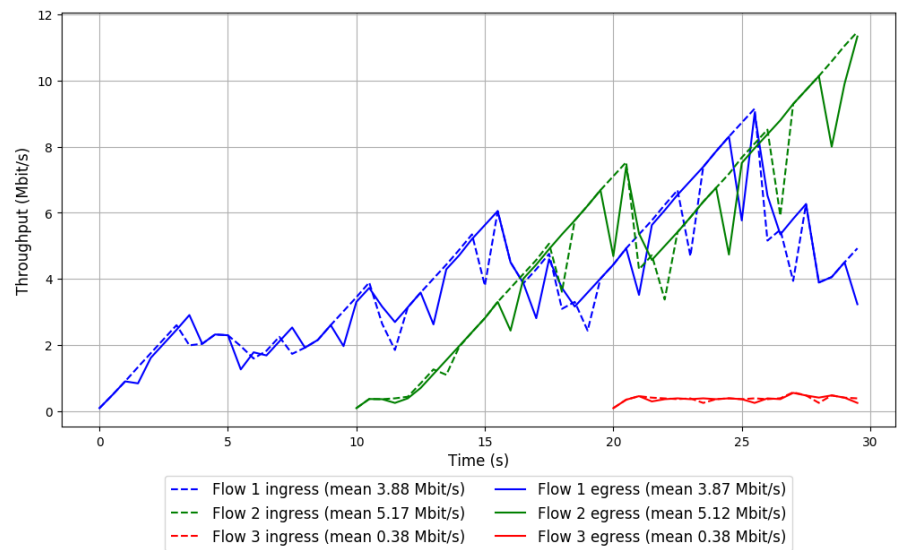
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 87.032 ms

Loss rate: 1.81%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-11-16 18:03:18

End at: 2017-11-16 18:03:48

Below is generated by plot.py at 2017-11-16 21:44:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.03 Mbit/s

95th percentile per-packet one-way delay: 87.457 ms

Loss rate: 1.86%

-- Flow 1:

Average throughput: 2.57 Mbit/s

95th percentile per-packet one-way delay: 87.388 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 87.096 ms

Loss rate: 0.94%

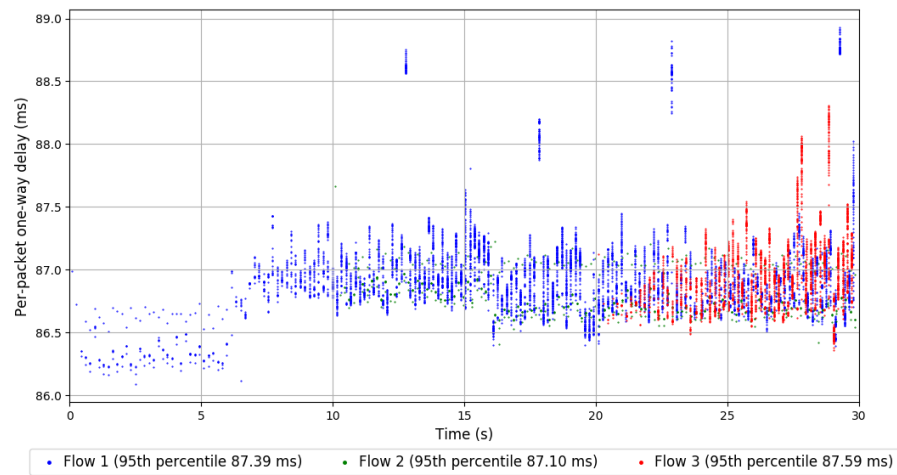
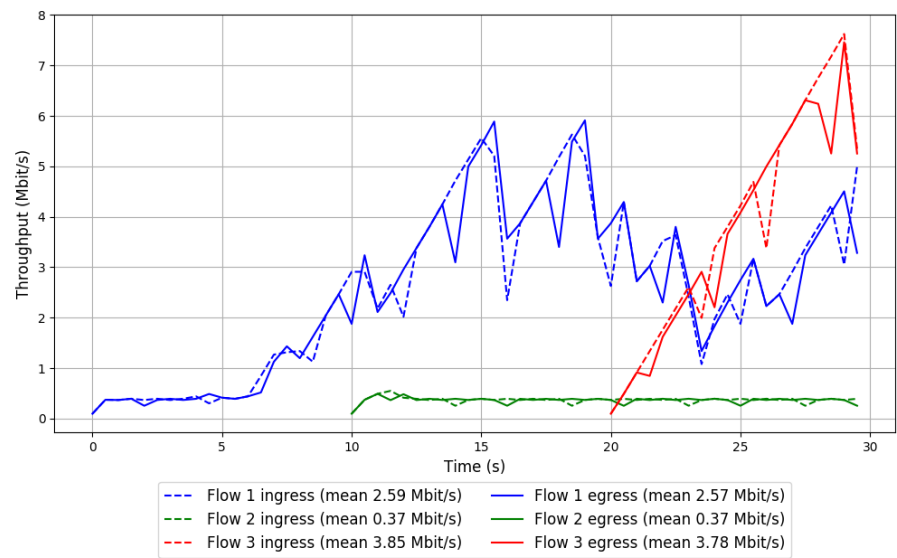
-- Flow 3:

Average throughput: 3.78 Mbit/s

95th percentile per-packet one-way delay: 87.586 ms

Loss rate: 3.58%

Run 5: Report of LEDBAT — Data Link

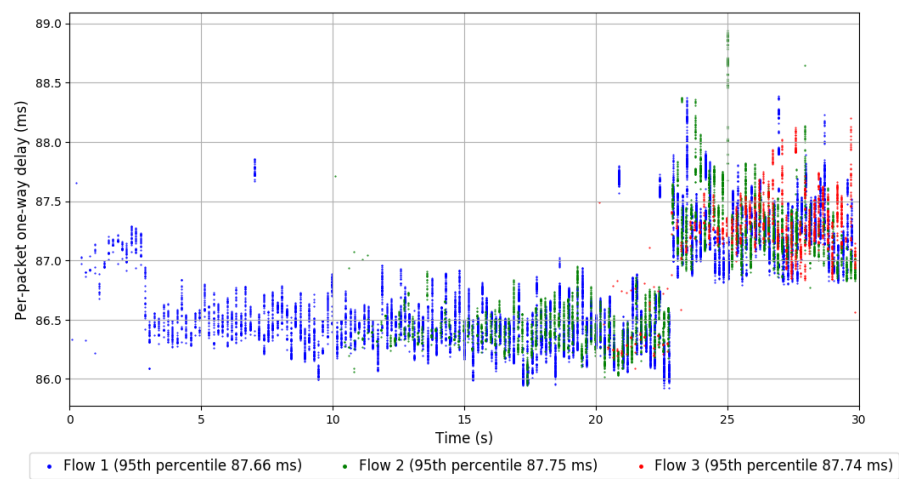
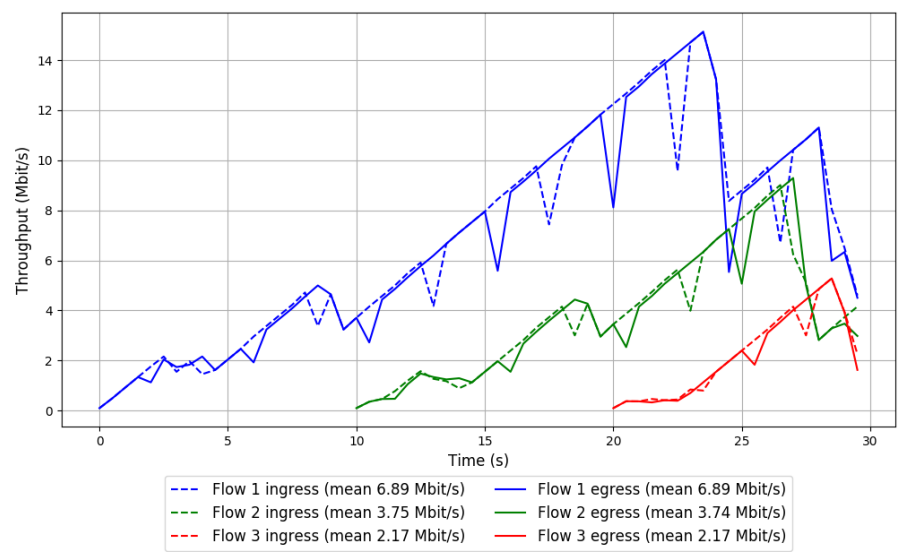


```
Run 6: Statistics of LEDBAT

Start at: 2017-11-16 18:16:21
End at: 2017-11-16 18:16:51

# Below is generated by plot.py at 2017-11-16 21:44:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.06 Mbit/s
95th percentile per-packet one-way delay: 87.689 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 6.89 Mbit/s
95th percentile per-packet one-way delay: 87.659 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 3.74 Mbit/s
95th percentile per-packet one-way delay: 87.748 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 87.737 ms
Loss rate: 1.53%
```

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-11-16 18:29:41

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

Below is generated by plot.py at 2017-11-16 21:44:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.47 Mbit/s

95th percentile per-packet one-way delay: 87.154 ms

Loss rate: 1.50%

-- Flow 1:

Average throughput: 5.55 Mbit/s

95th percentile per-packet one-way delay: 87.056 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 5.72 Mbit/s

95th percentile per-packet one-way delay: 87.225 ms

Loss rate: 2.01%

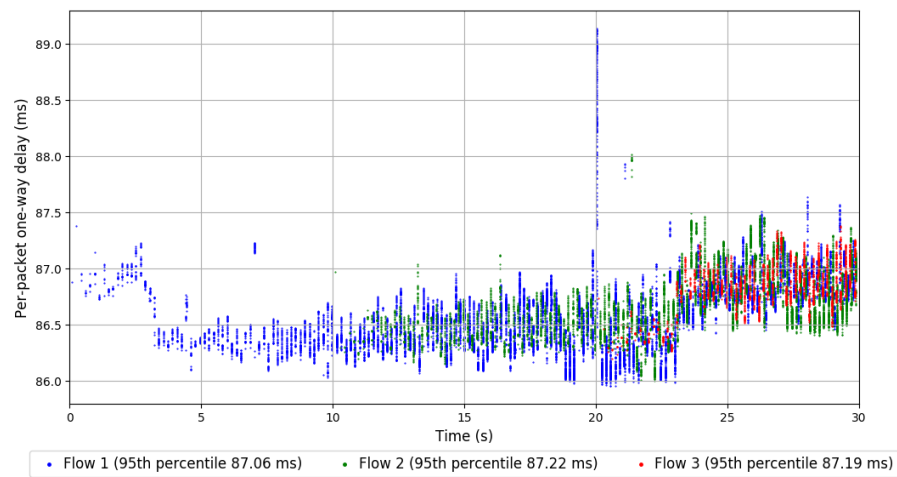
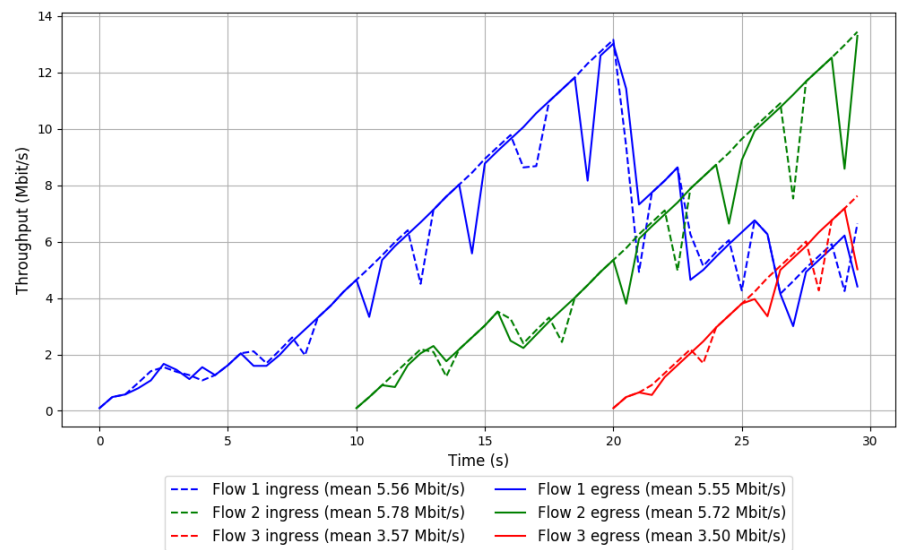
-- Flow 3:

Average throughput: 3.50 Mbit/s

95th percentile per-packet one-way delay: 87.187 ms

Loss rate: 3.68%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-16 18:43:02

End at: 2017-11-16 18:43:32

Below is generated by plot.py at 2017-11-16 21:44:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.08 Mbit/s

95th percentile per-packet one-way delay: 87.340 ms

Loss rate: 1.91%

-- Flow 1:

Average throughput: 4.71 Mbit/s

95th percentile per-packet one-way delay: 87.409 ms

Loss rate: 1.62%

-- Flow 2:

Average throughput: 5.38 Mbit/s

95th percentile per-packet one-way delay: 87.315 ms

Loss rate: 1.93%

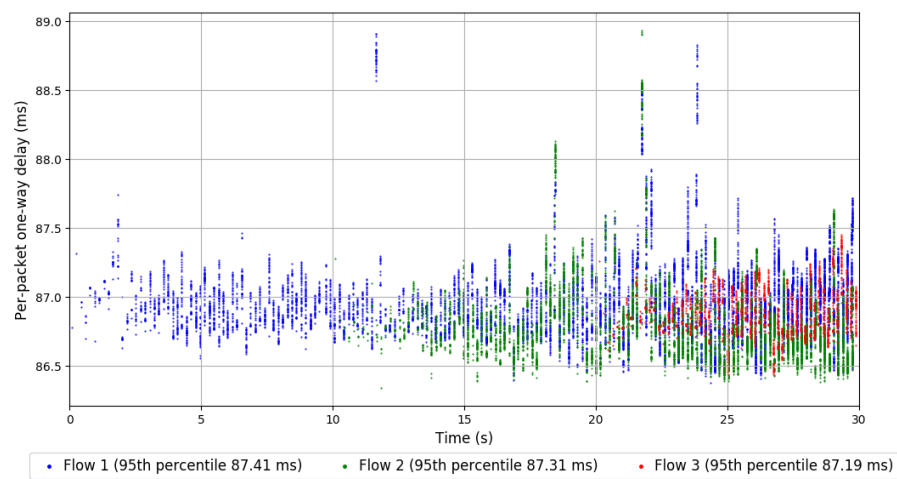
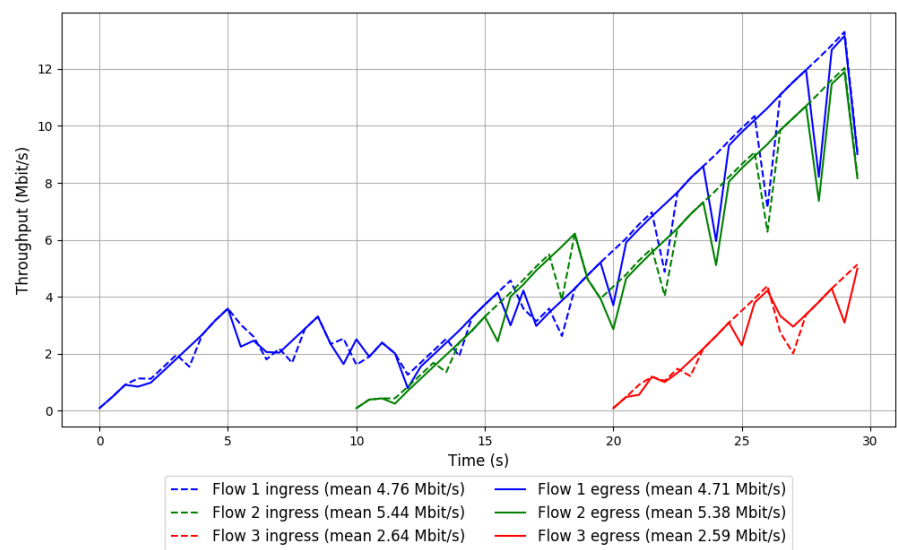
-- Flow 3:

Average throughput: 2.59 Mbit/s

95th percentile per-packet one-way delay: 87.191 ms

Loss rate: 3.36%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-16 18:56:15

End at: 2017-11-16 18:56:45

Below is generated by plot.py at 2017-11-16 21:44:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.36 Mbit/s

95th percentile per-packet one-way delay: 87.323 ms

Loss rate: 1.79%

-- Flow 1:

Average throughput: 4.07 Mbit/s

95th percentile per-packet one-way delay: 87.402 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 3.06 Mbit/s

95th percentile per-packet one-way delay: 87.271 ms

Loss rate: 2.72%

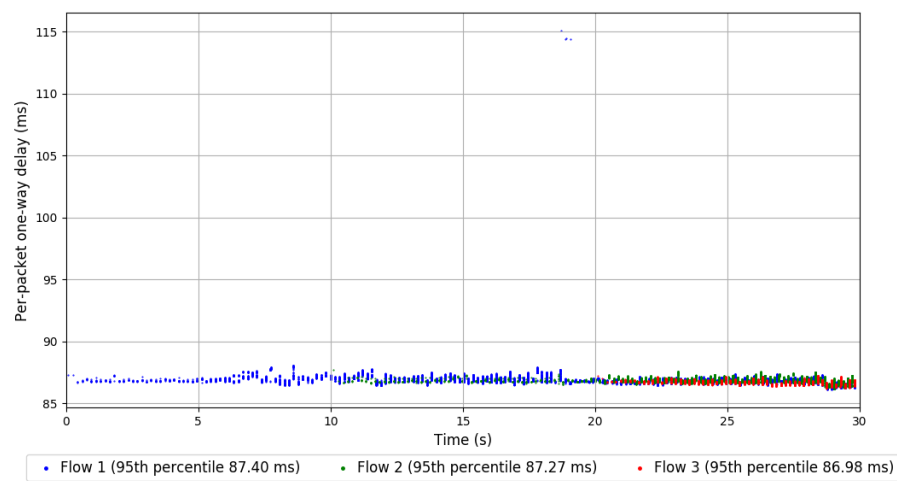
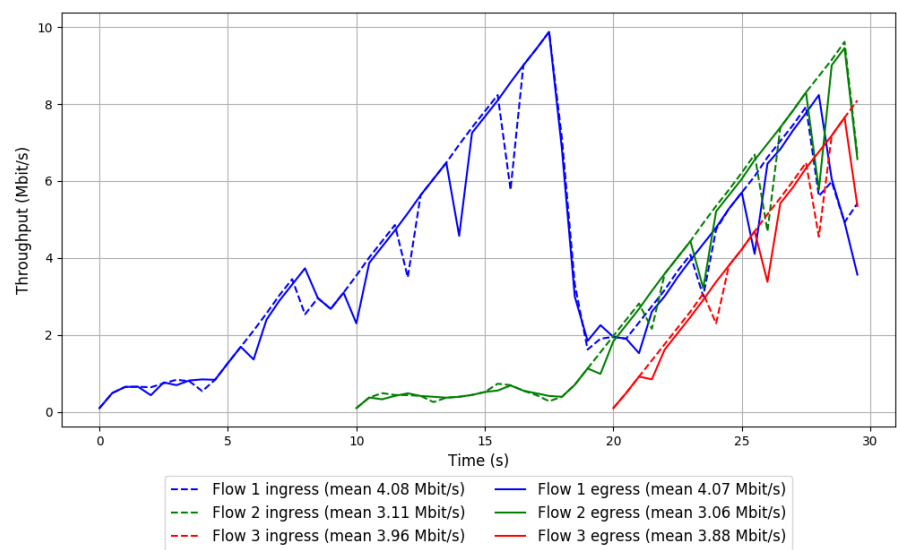
-- Flow 3:

Average throughput: 3.88 Mbit/s

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

Loss rate: 3.51%

Run 9: Report of LEDBAT — Data Link

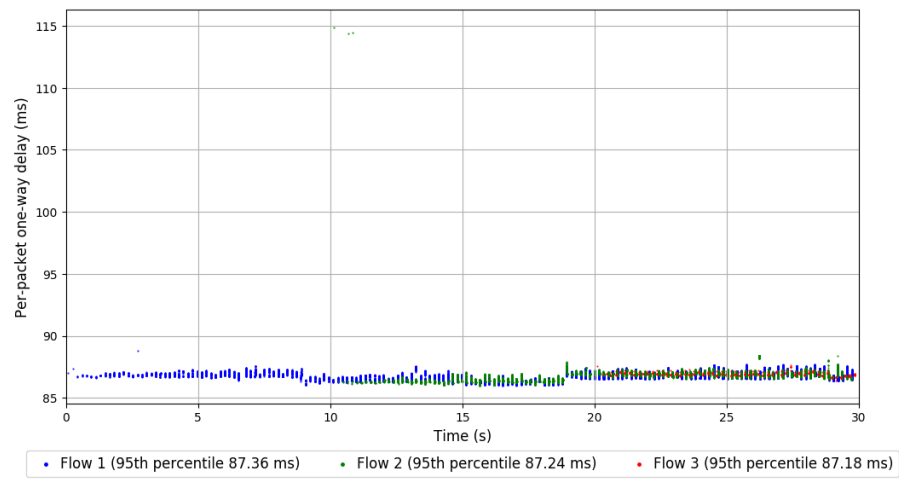
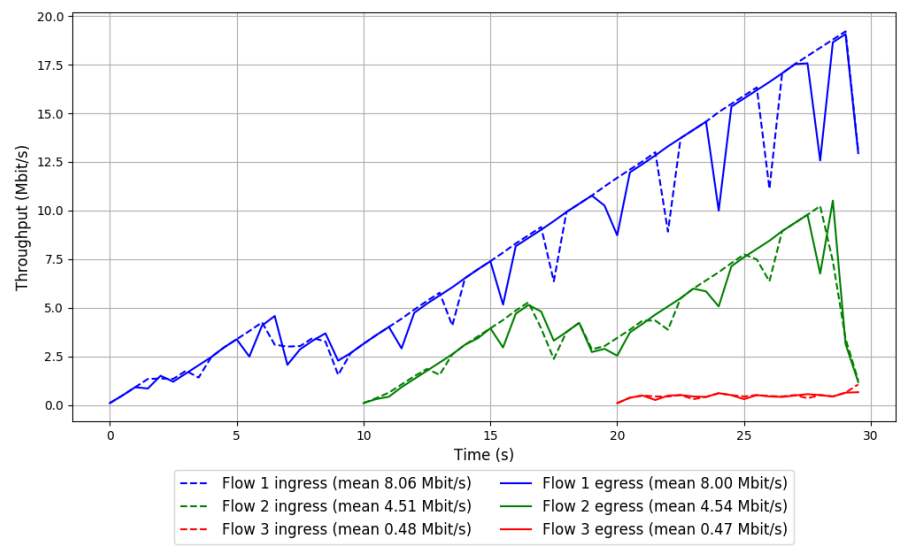


```
Run 10: Statistics of LEDBAT

Start at: 2017-11-16 19:09:35
End at: 2017-11-16 19:10:05

# Below is generated by plot.py at 2017-11-16 21:44:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.11 Mbit/s
95th percentile per-packet one-way delay: 87.335 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 8.00 Mbit/s
95th percentile per-packet one-way delay: 87.362 ms
Loss rate: 1.38%
-- Flow 2:
Average throughput: 4.54 Mbit/s
95th percentile per-packet one-way delay: 87.241 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 87.178 ms
Loss rate: 4.21%
```

Run 10: Report of LEDBAT — Data Link

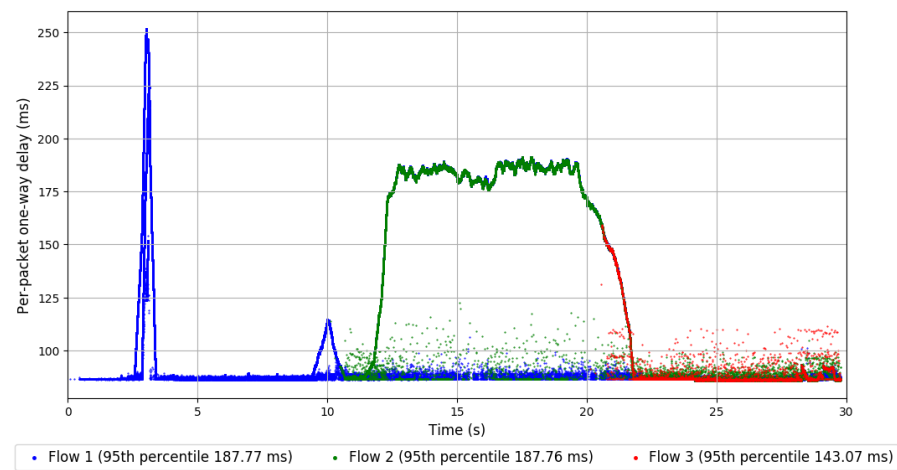
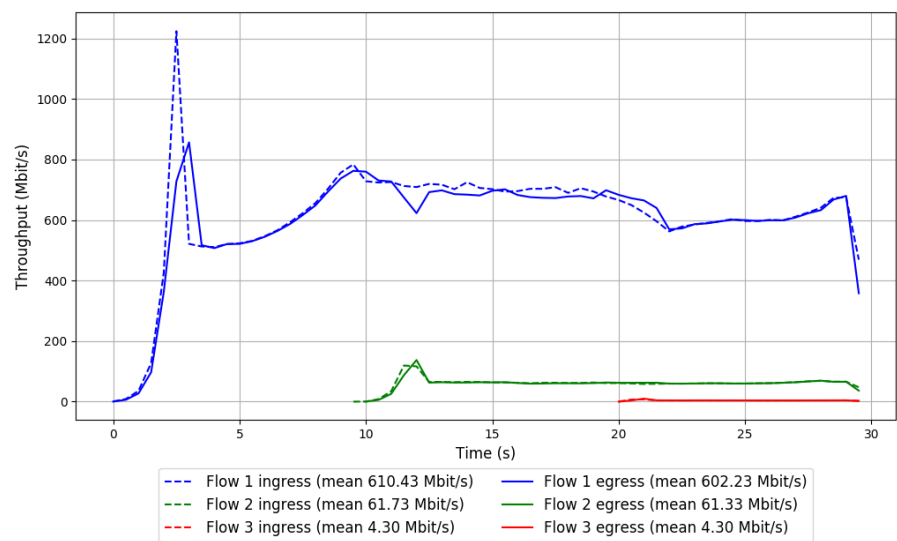


```
Run 1: Statistics of PCC

Start at: 2017-11-16 17:19:30
End at: 2017-11-16 17:20:00

# Below is generated by plot.py at 2017-11-16 21:54:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 644.20 Mbit/s
95th percentile per-packet one-way delay: 187.768 ms
Loss rate: 1.90%
-- Flow 1:
Average throughput: 602.23 Mbit/s
95th percentile per-packet one-way delay: 187.773 ms
Loss rate: 1.92%
-- Flow 2:
Average throughput: 61.33 Mbit/s
95th percentile per-packet one-way delay: 187.763 ms
Loss rate: 1.65%
-- Flow 3:
Average throughput: 4.30 Mbit/s
95th percentile per-packet one-way delay: 143.069 ms
Loss rate: 1.68%
```

Run 1: Report of PCC — Data Link

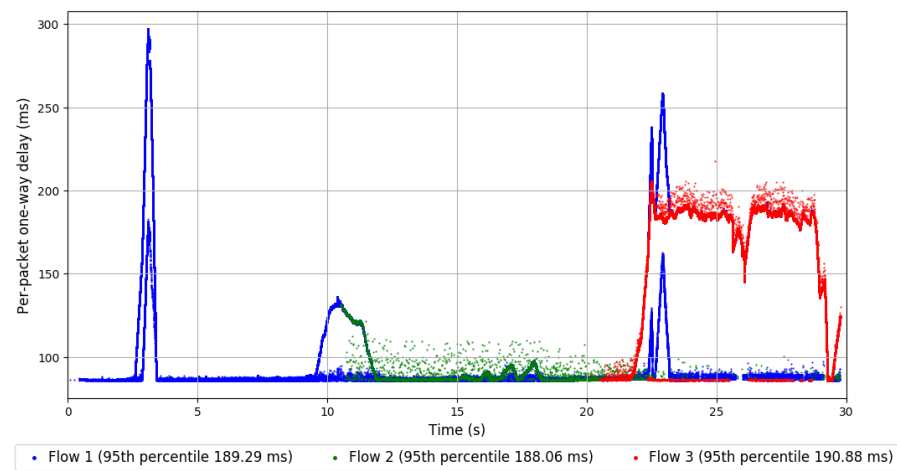
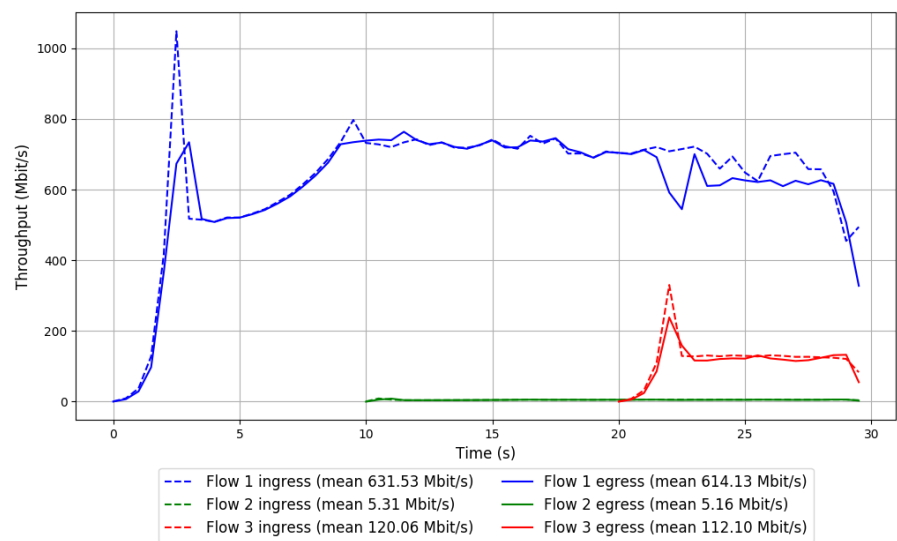


```
Run 2: Statistics of PCC

Start at: 2017-11-16 17:32:55
End at: 2017-11-16 17:33:25

# Below is generated by plot.py at 2017-11-16 21:54:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 653.92 Mbit/s
95th percentile per-packet one-way delay: 189.448 ms
Loss rate: 3.61%
-- Flow 1:
Average throughput: 614.13 Mbit/s
95th percentile per-packet one-way delay: 189.286 ms
Loss rate: 3.32%
-- Flow 2:
Average throughput: 5.16 Mbit/s
95th percentile per-packet one-way delay: 188.064 ms
Loss rate: 3.58%
-- Flow 3:
Average throughput: 112.10 Mbit/s
95th percentile per-packet one-way delay: 190.878 ms
Loss rate: 8.30%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-11-16 17:46:19

End at: 2017-11-16 17:46:49

Below is generated by plot.py at 2017-11-16 21:54:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 623.59 Mbit/s

95th percentile per-packet one-way delay: 244.807 ms

Loss rate: 3.33%

-- Flow 1:

Average throughput: 530.85 Mbit/s

95th percentile per-packet one-way delay: 246.222 ms

Loss rate: 3.65%

-- Flow 2:

Average throughput: 124.33 Mbit/s

95th percentile per-packet one-way delay: 185.808 ms

Loss rate: 1.32%

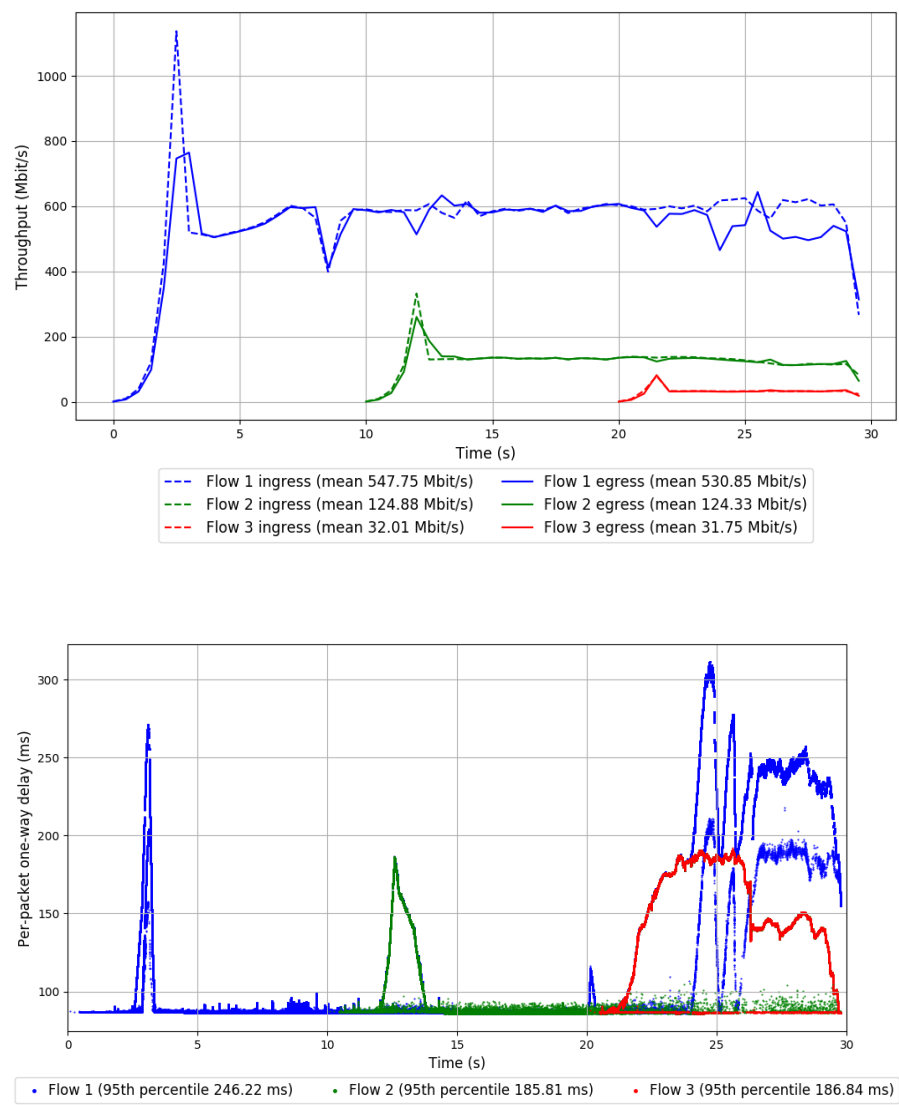
-- Flow 3:

Average throughput: 31.75 Mbit/s

95th percentile per-packet one-way delay: 186.843 ms

Loss rate: 2.58%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-11-16 17:59:39

End at: 2017-11-16 18:00:09

Below is generated by plot.py at 2017-11-16 21:54:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 648.91 Mbit/s

95th percentile per-packet one-way delay: 190.280 ms

Loss rate: 2.44%

-- Flow 1:

Average throughput: 608.52 Mbit/s

95th percentile per-packet one-way delay: 190.274 ms

Loss rate: 2.44%

-- Flow 2:

Average throughput: 59.03 Mbit/s

95th percentile per-packet one-way delay: 190.385 ms

Loss rate: 2.34%

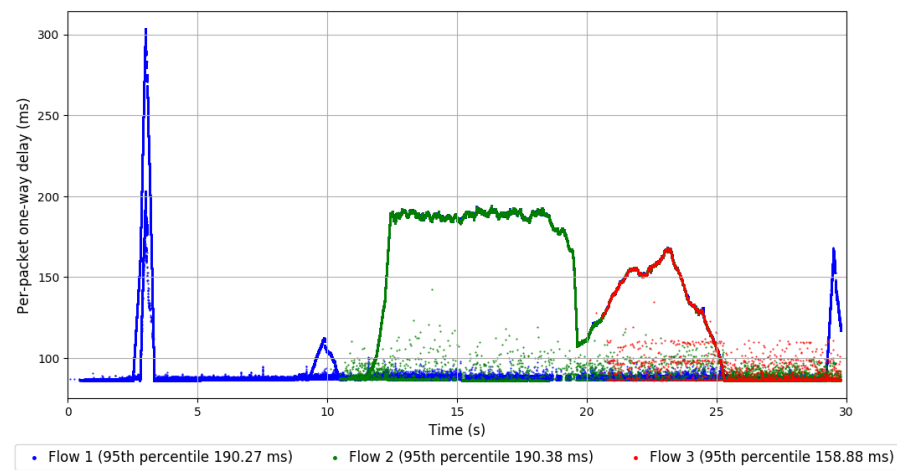
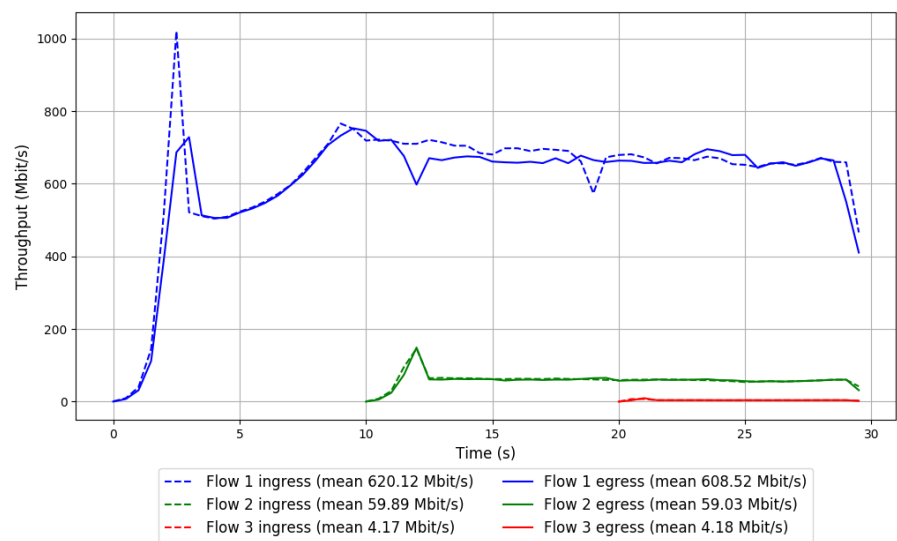
-- Flow 3:

Average throughput: 4.18 Mbit/s

95th percentile per-packet one-way delay: 158.880 ms

Loss rate: 1.73%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-11-16 18:12:36

End at: 2017-11-16 18:13:06

Below is generated by plot.py at 2017-11-16 21:54:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 616.02 Mbit/s

95th percentile per-packet one-way delay: 191.889 ms

Loss rate: 3.00%

-- Flow 1:

Average throughput: 547.24 Mbit/s

95th percentile per-packet one-way delay: 193.122 ms

Loss rate: 3.20%

-- Flow 2:

Average throughput: 72.33 Mbit/s

95th percentile per-packet one-way delay: 180.760 ms

Loss rate: 1.19%

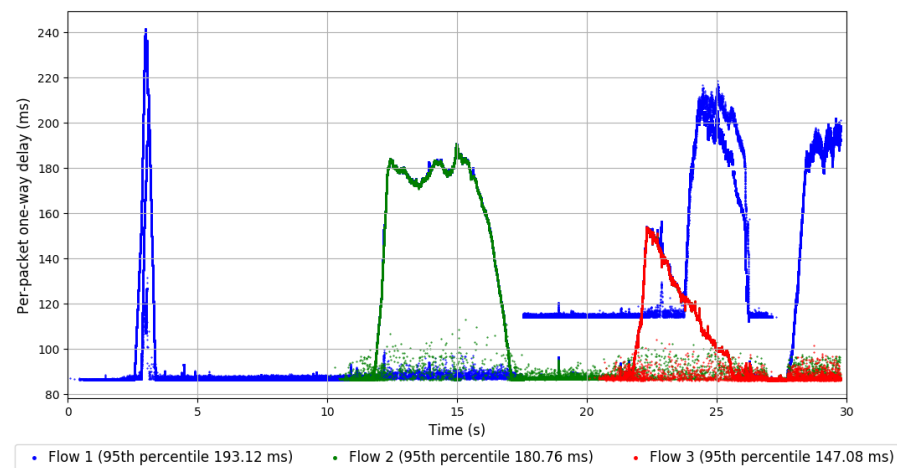
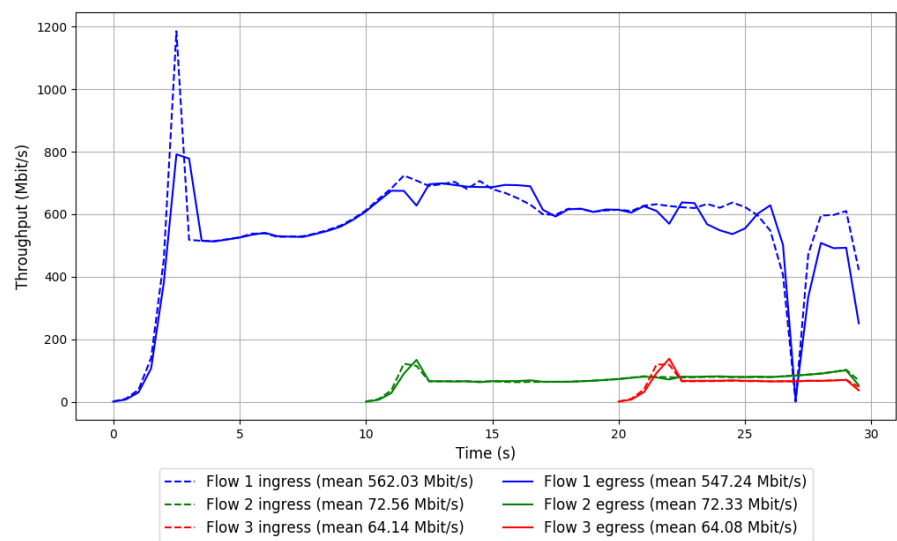
-- Flow 3:

Average throughput: 64.08 Mbit/s

95th percentile per-packet one-way delay: 147.077 ms

Loss rate: 1.86%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-11-16 18:25:58

End at: 2017-11-16 18:26:28

Below is generated by plot.py at 2017-11-16 21:55:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 663.31 Mbit/s

95th percentile per-packet one-way delay: 183.727 ms

Loss rate: 1.93%

-- Flow 1:

Average throughput: 622.36 Mbit/s

95th percentile per-packet one-way delay: 183.724 ms

Loss rate: 1.92%

-- Flow 2:

Average throughput: 60.65 Mbit/s

95th percentile per-packet one-way delay: 183.774 ms

Loss rate: 1.98%

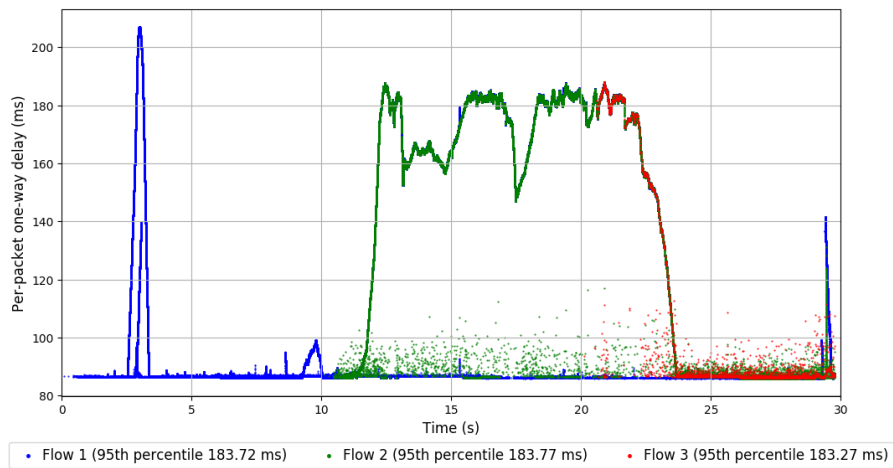
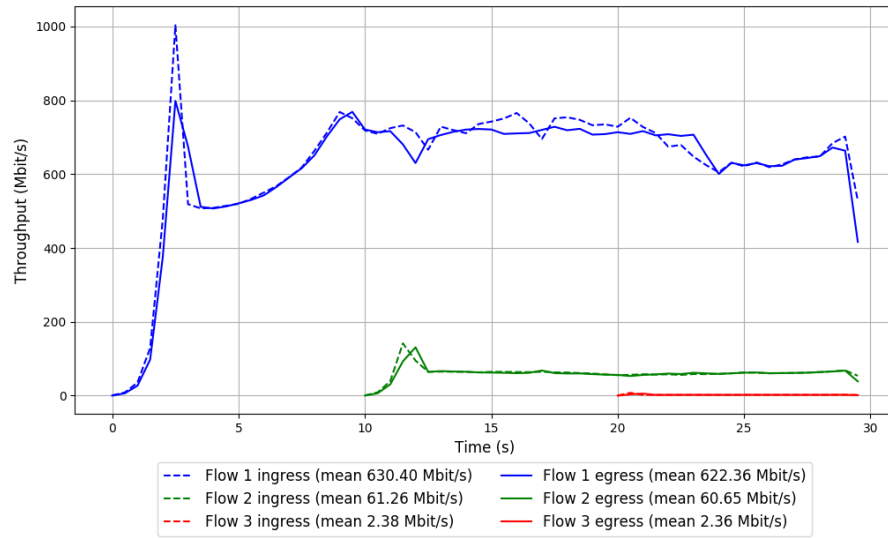
-- Flow 3:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 183.271 ms

Loss rate: 2.92%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-16 18:39:13

End at: 2017-11-16 18:39:43

Below is generated by plot.py at 2017-11-16 21:55:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 671.36 Mbit/s

95th percentile per-packet one-way delay: 185.040 ms

Loss rate: 1.93%

-- Flow 1:

Average throughput: 620.44 Mbit/s

95th percentile per-packet one-way delay: 185.004 ms

Loss rate: 1.91%

-- Flow 2:

Average throughput: 61.02 Mbit/s

95th percentile per-packet one-way delay: 186.021 ms

Loss rate: 2.19%

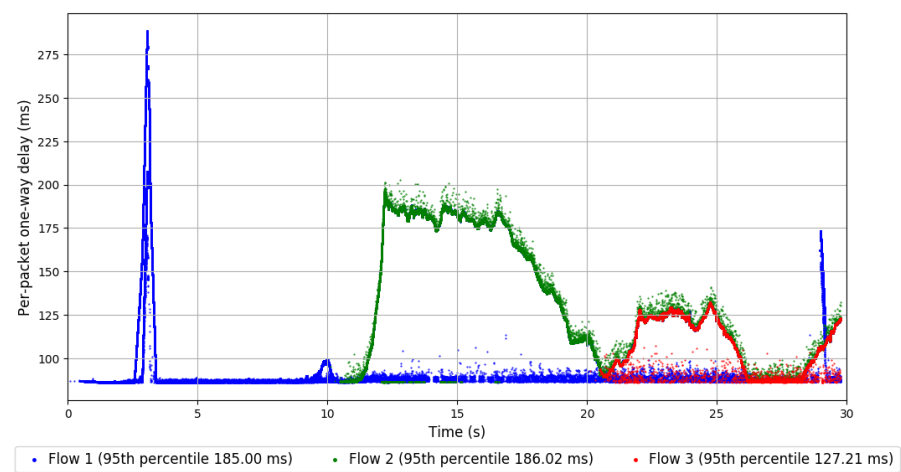
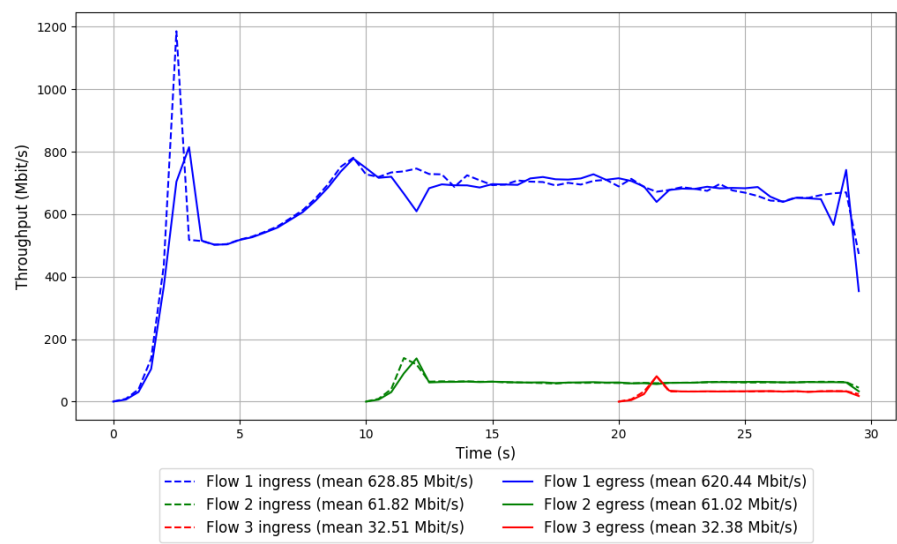
-- Flow 3:

Average throughput: 32.38 Mbit/s

95th percentile per-packet one-way delay: 127.212 ms

Loss rate: 2.21%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-11-16 18:52:36

End at: 2017-11-16 18:53:06

Below is generated by plot.py at 2017-11-16 21:55:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 644.61 Mbit/s

95th percentile per-packet one-way delay: 142.686 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 629.86 Mbit/s

95th percentile per-packet one-way delay: 143.979 ms

Loss rate: 1.23%

-- Flow 2:

Average throughput: 6.25 Mbit/s

95th percentile per-packet one-way delay: 132.172 ms

Loss rate: 1.26%

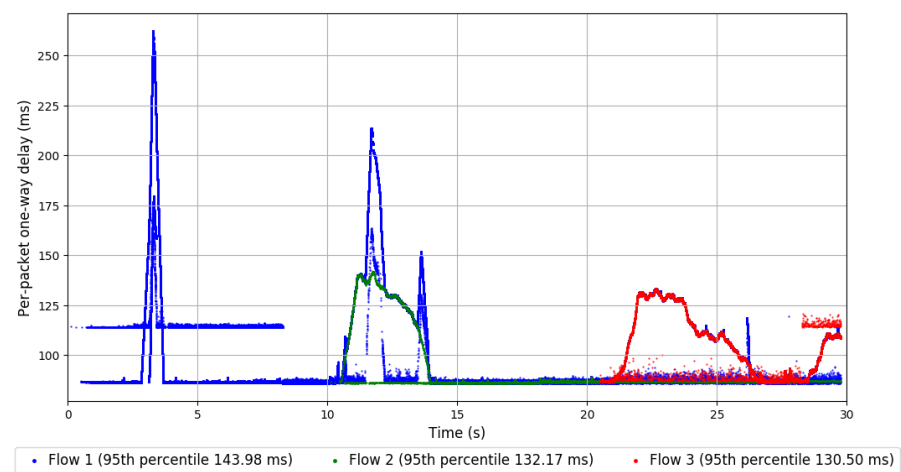
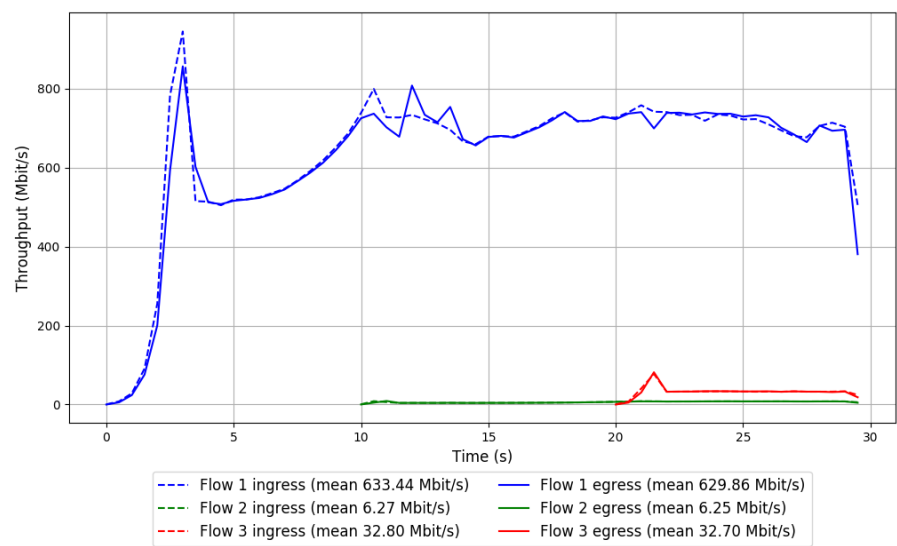
-- Flow 3:

Average throughput: 32.70 Mbit/s

95th percentile per-packet one-way delay: 130.495 ms

Loss rate: 2.07%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-11-16 19:05:48

End at: 2017-11-16 19:06:18

Below is generated by plot.py at 2017-11-16 22:05:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 653.17 Mbit/s

95th percentile per-packet one-way delay: 185.747 ms

Loss rate: 1.68%

-- Flow 1:

Average throughput: 620.64 Mbit/s

95th percentile per-packet one-way delay: 185.757 ms

Loss rate: 1.66%

-- Flow 2:

Average throughput: 33.25 Mbit/s

95th percentile per-packet one-way delay: 185.063 ms

Loss rate: 1.62%

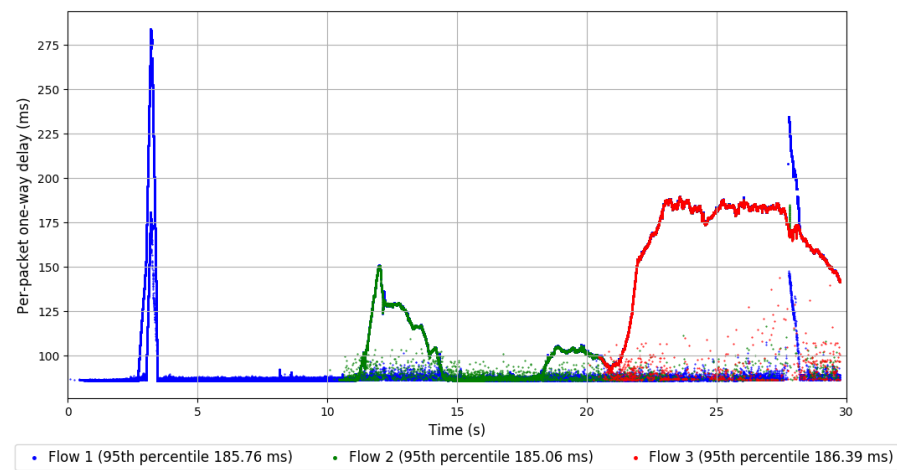
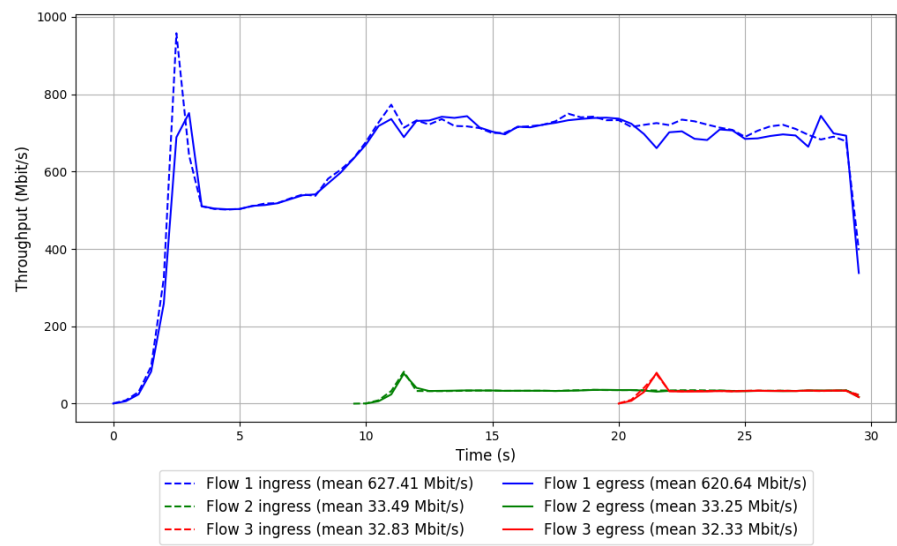
-- Flow 3:

Average throughput: 32.33 Mbit/s

95th percentile per-packet one-way delay: 186.387 ms

Loss rate: 3.33%

Run 9: Report of PCC — Data Link

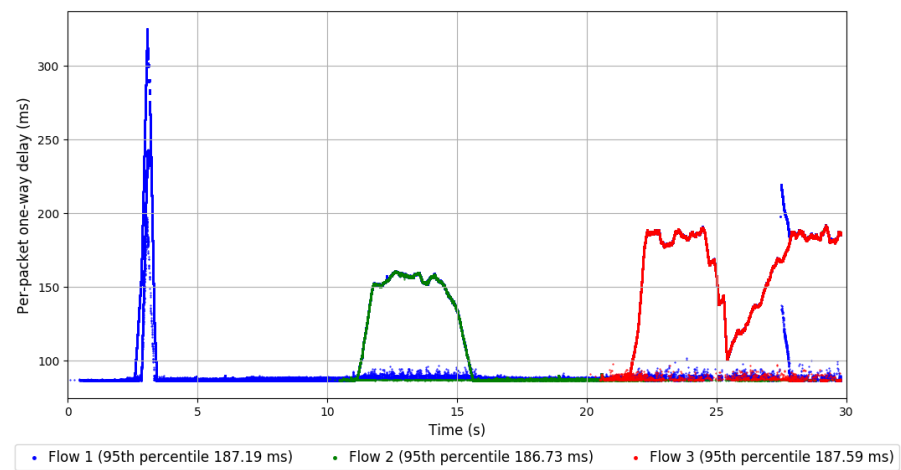
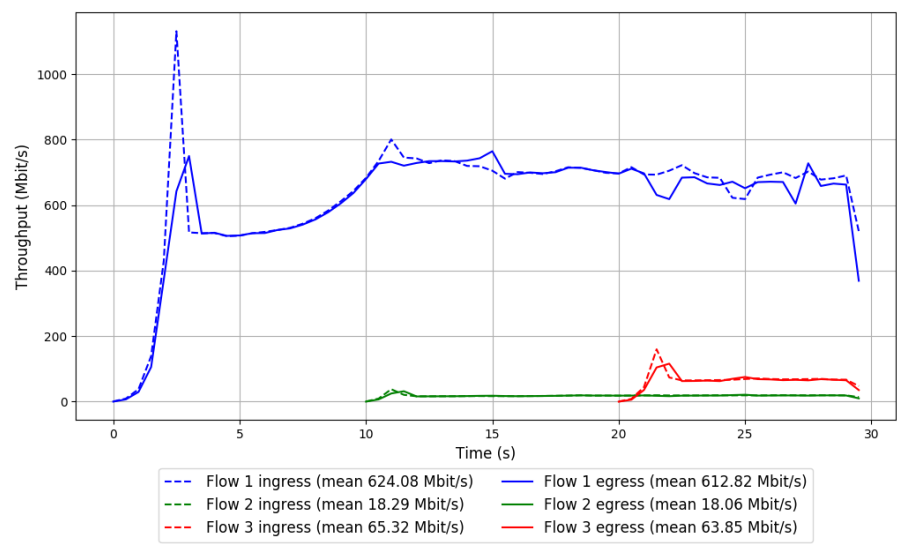


```
Run 10: Statistics of PCC

Start at: 2017-11-16 19:18:57
End at: 2017-11-16 19:19:27

# Below is generated by plot.py at 2017-11-16 22:05:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 645.49 Mbit/s
95th percentile per-packet one-way delay: 187.202 ms
Loss rate: 2.42%
-- Flow 1:
Average throughput: 612.82 Mbit/s
95th percentile per-packet one-way delay: 187.188 ms
Loss rate: 2.37%
-- Flow 2:
Average throughput: 18.06 Mbit/s
95th percentile per-packet one-way delay: 186.728 ms
Loss rate: 2.12%
-- Flow 3:
Average throughput: 63.85 Mbit/s
95th percentile per-packet one-way delay: 187.590 ms
Loss rate: 4.00%
```

Run 10: Report of PCC — Data Link

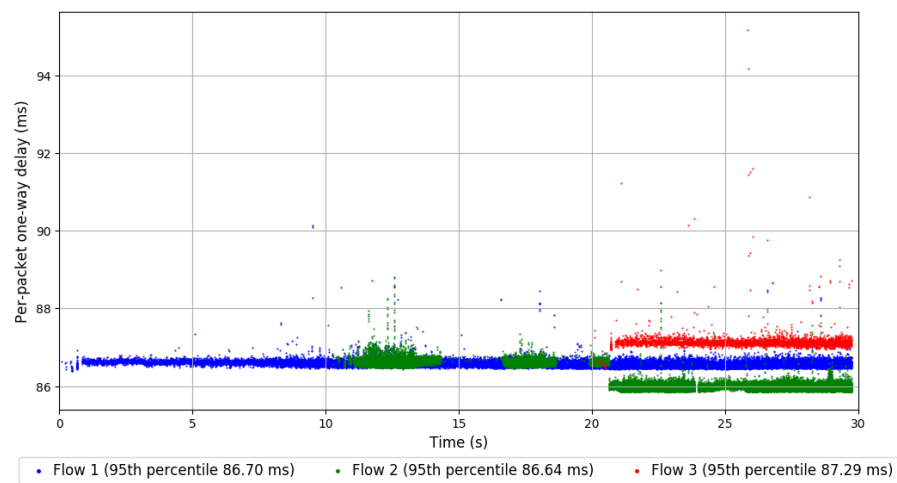
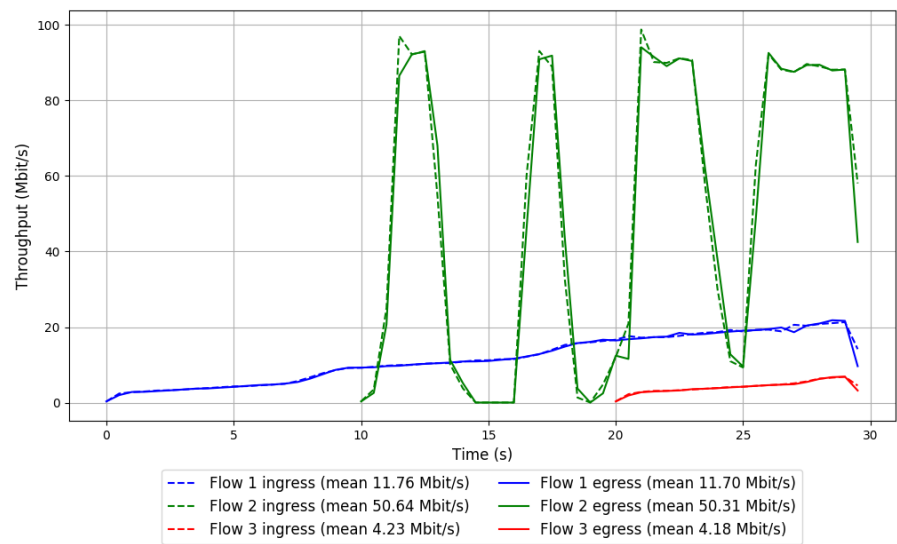


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-11-16 17:15:53
End at: 2017-11-16 17:16:23

# Below is generated by plot.py at 2017-11-16 22:05:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 46.39 Mbit/s
95th percentile per-packet one-way delay: 86.718 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 11.70 Mbit/s
95th percentile per-packet one-way delay: 86.702 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 50.31 Mbit/s
95th percentile per-packet one-way delay: 86.641 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 4.18 Mbit/s
95th percentile per-packet one-way delay: 87.286 ms
Loss rate: 2.92%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-11-16 17:29:13

End at: 2017-11-16 17:29:43

Below is generated by plot.py at 2017-11-16 22:05:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 101.33 Mbit/s

95th percentile per-packet one-way delay: 86.597 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 55.22 Mbit/s

95th percentile per-packet one-way delay: 86.620 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 55.41 Mbit/s

95th percentile per-packet one-way delay: 86.553 ms

Loss rate: 1.45%

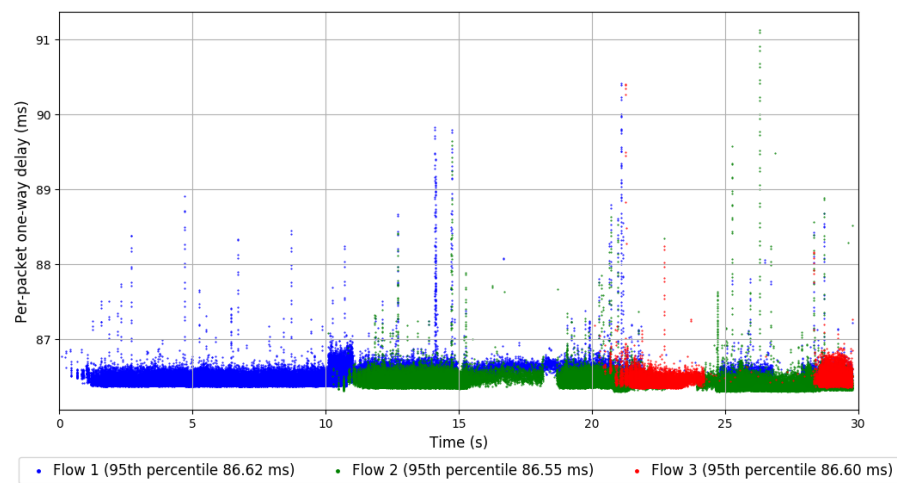
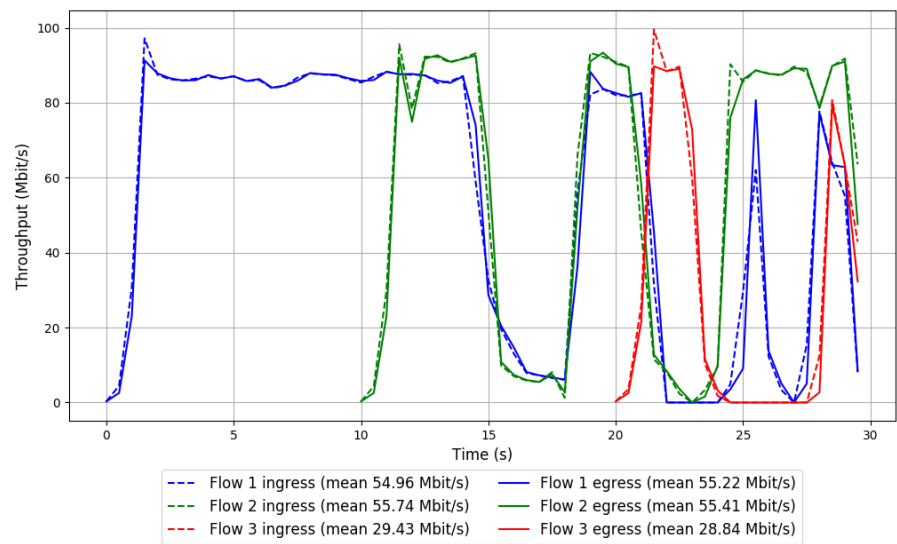
-- Flow 3:

Average throughput: 28.84 Mbit/s

95th percentile per-packet one-way delay: 86.597 ms

Loss rate: 3.73%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-16 17:42:41

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

Below is generated by plot.py at 2017-11-16 22:05:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.14 Mbit/s

95th percentile per-packet one-way delay: 86.636 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 88.081 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.56 Mbit/s

95th percentile per-packet one-way delay: 86.645 ms

Loss rate: 1.45%

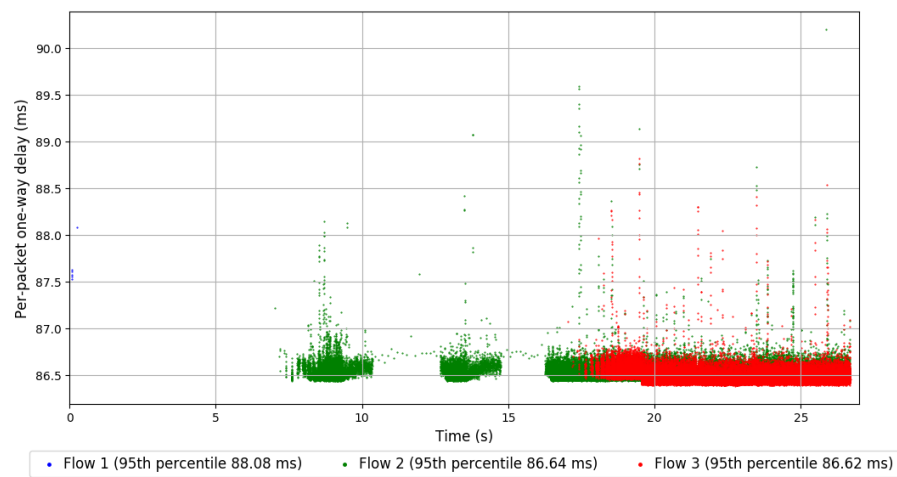
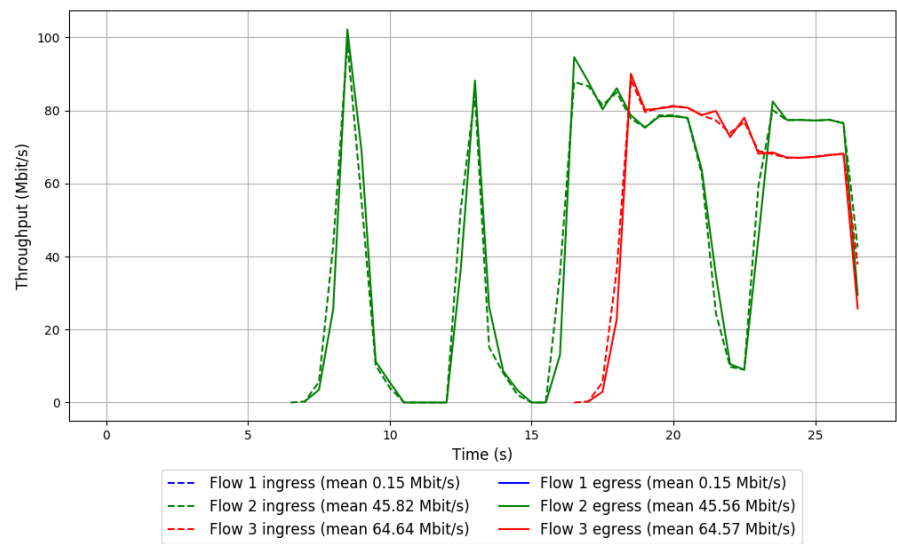
-- Flow 3:

Average throughput: 64.57 Mbit/s

95th percentile per-packet one-way delay: 86.623 ms

Loss rate: 1.87%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-16 17:55:56

End at: 2017-11-16 17:56:26

Below is generated by plot.py at 2017-11-16 22:05:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.88 Mbit/s

95th percentile per-packet one-way delay: 86.665 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 70.11 Mbit/s

95th percentile per-packet one-way delay: 86.676 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 60.88 Mbit/s

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

Loss rate: 0.25%

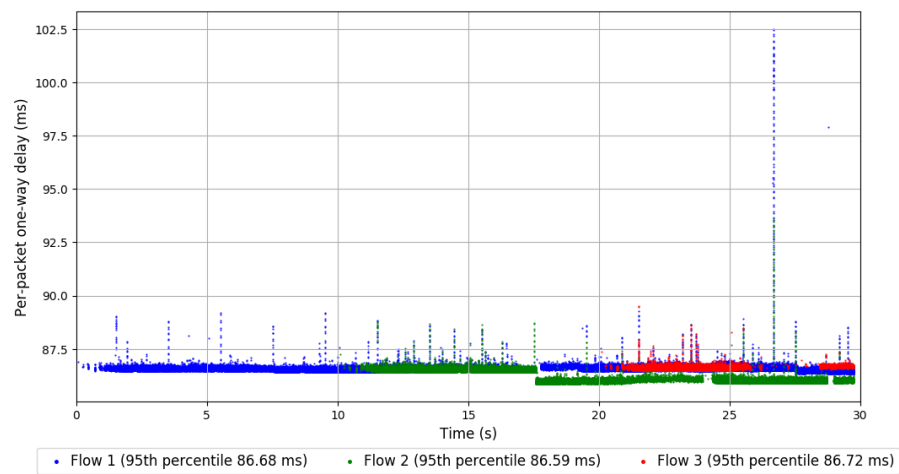
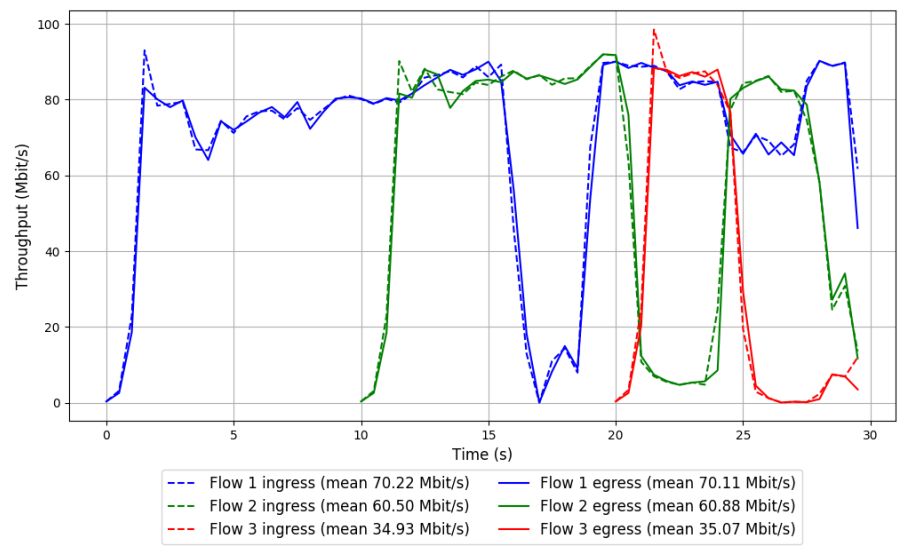
-- Flow 3:

Average throughput: 35.07 Mbit/s

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

Loss rate: 1.41%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-16 18:08:57

End at: 2017-11-16 18:09:27

Below is generated by plot.py at 2017-11-16 22:05:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.48 Mbit/s

95th percentile per-packet one-way delay: 87.017 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 63.01 Mbit/s

95th percentile per-packet one-way delay: 86.662 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 50.49 Mbit/s

95th percentile per-packet one-way delay: 87.149 ms

Loss rate: 0.42%

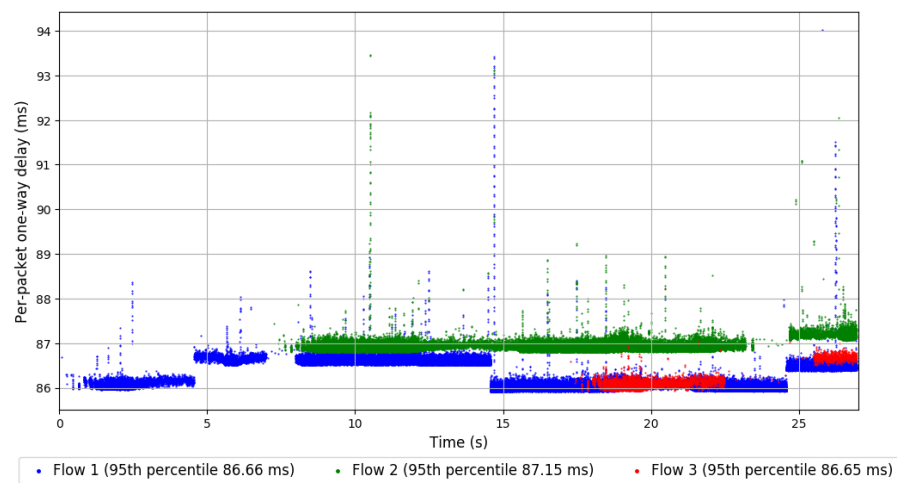
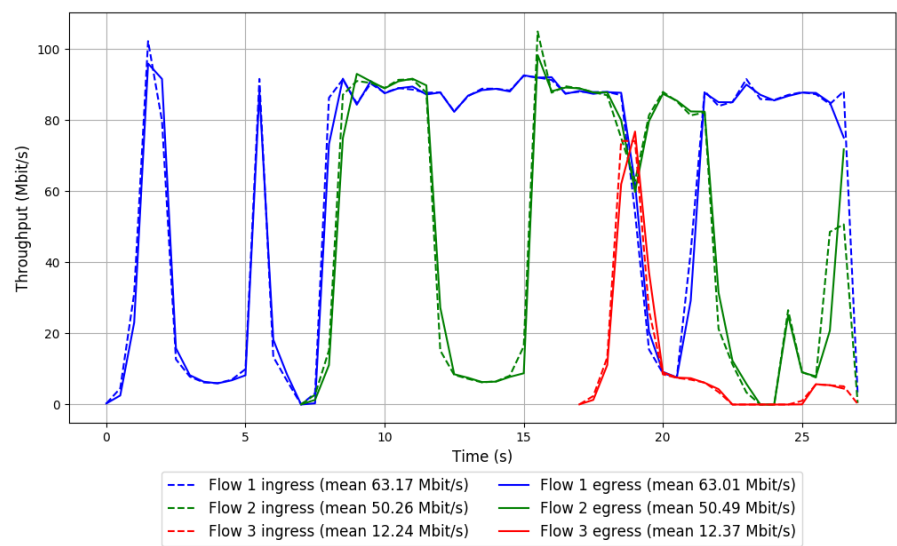
-- Flow 3:

Average throughput: 12.37 Mbit/s

95th percentile per-packet one-way delay: 86.646 ms

Loss rate: 0.74%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-16 18:22:16

End at: 2017-11-16 18:22:46

Below is generated by plot.py at 2017-11-16 22:05:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 107.88 Mbit/s

95th percentile per-packet one-way delay: 114.151 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 67.84 Mbit/s

95th percentile per-packet one-way delay: 86.268 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 23.54 Mbit/s

95th percentile per-packet one-way delay: 114.294 ms

Loss rate: 0.16%

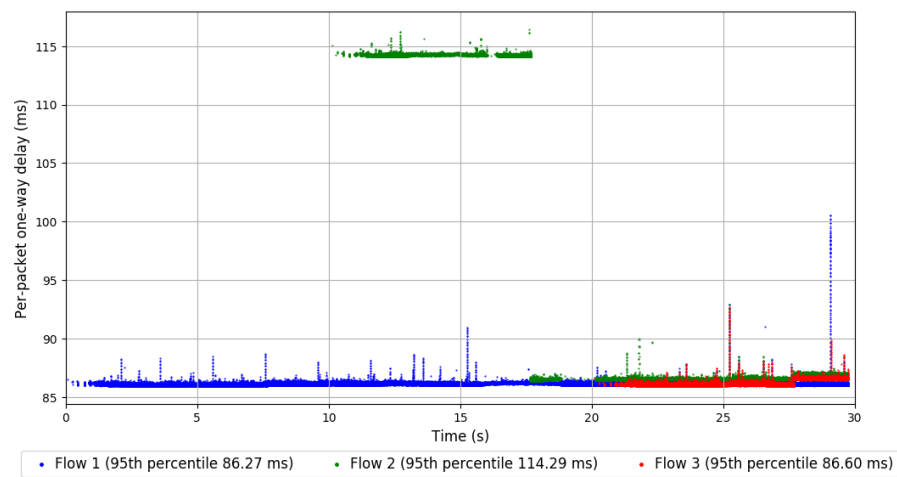
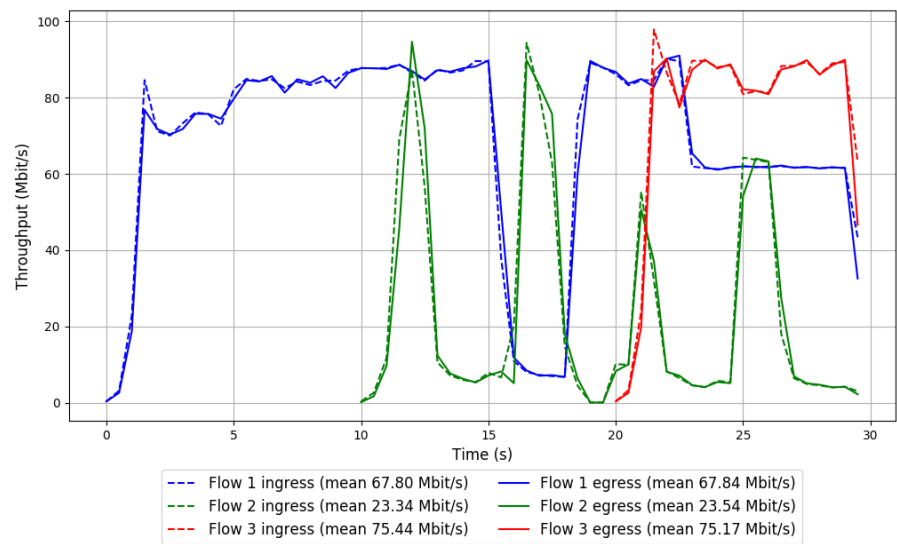
-- Flow 3:

Average throughput: 75.17 Mbit/s

95th percentile per-packet one-way delay: 86.600 ms

Loss rate: 2.10%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-16 18:35:31

End at: 2017-11-16 18:36:01

Below is generated by plot.py at 2017-11-16 22:05:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.49 Mbit/s

95th percentile per-packet one-way delay: 87.031 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 56.16 Mbit/s

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

Loss rate: 0.87%

-- Flow 2:

Average throughput: 43.38 Mbit/s

95th percentile per-packet one-way delay: 86.539 ms

Loss rate: 0.16%

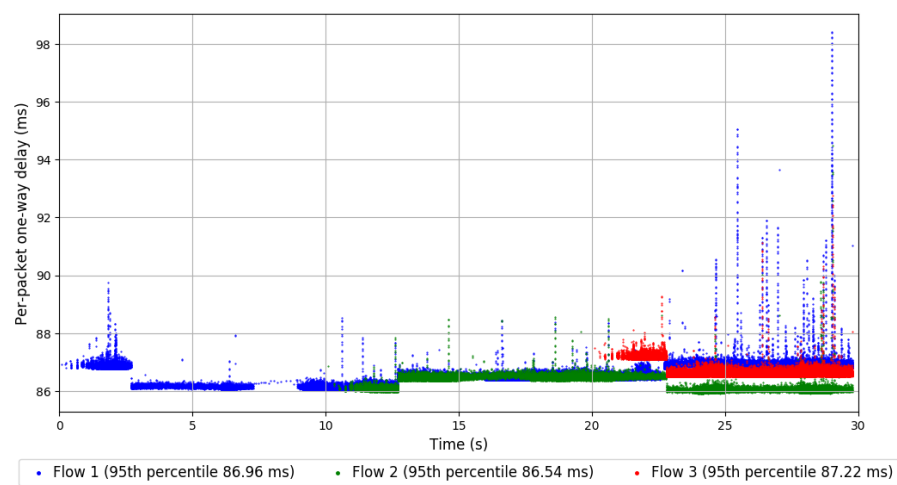
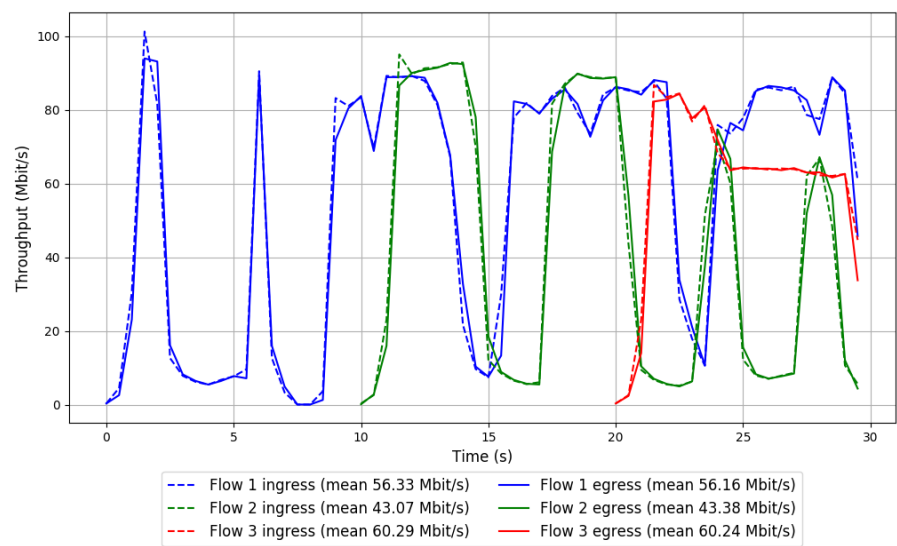
-- Flow 3:

Average throughput: 60.24 Mbit/s

95th percentile per-packet one-way delay: 87.223 ms

Loss rate: 1.83%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-16 18:48:55

End at: 2017-11-16 18:49:25

Below is generated by plot.py at 2017-11-16 22:05:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.29 Mbit/s

95th percentile per-packet one-way delay: 86.763 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 53.63 Mbit/s

95th percentile per-packet one-way delay: 86.703 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 56.20 Mbit/s

95th percentile per-packet one-way delay: 86.942 ms

Loss rate: 1.37%

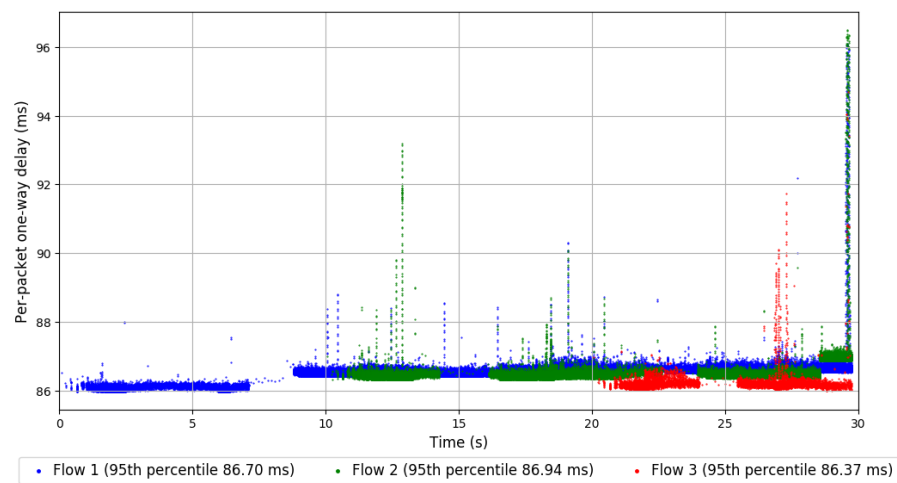
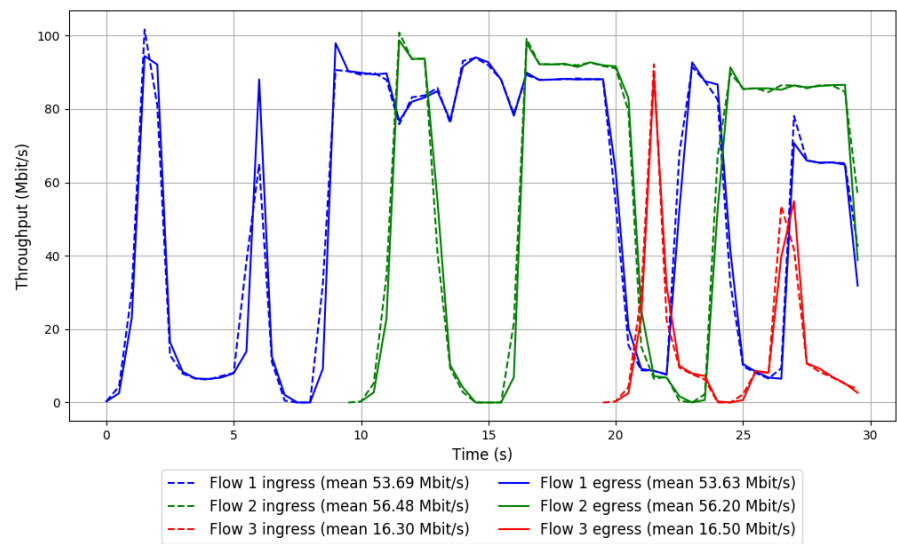
-- Flow 3:

Average throughput: 16.50 Mbit/s

95th percentile per-packet one-way delay: 86.373 ms

Loss rate: 0.57%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-16 19:02:07

End at: 2017-11-16 19:02:37

Below is generated by plot.py at 2017-11-16 22:05:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.42 Mbit/s

95th percentile per-packet one-way delay: 86.914 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 45.17 Mbit/s

95th percentile per-packet one-way delay: 86.613 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 60.98 Mbit/s

95th percentile per-packet one-way delay: 86.553 ms

Loss rate: 0.15%

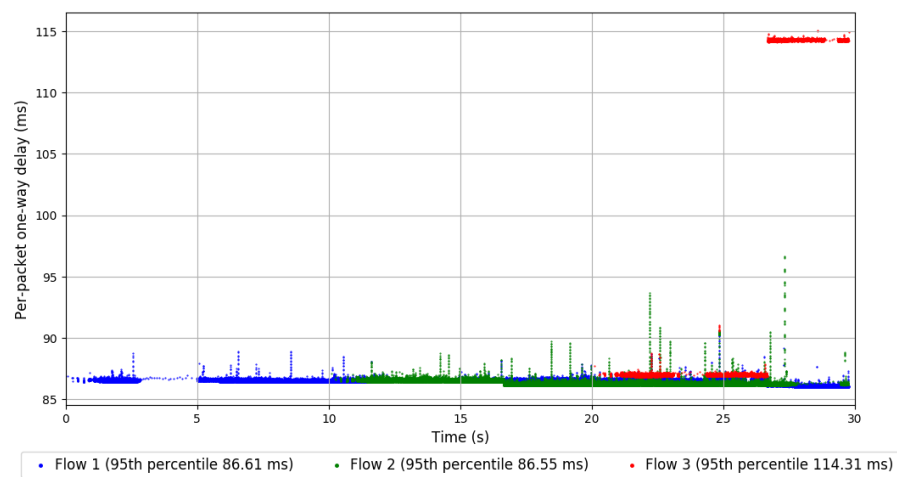
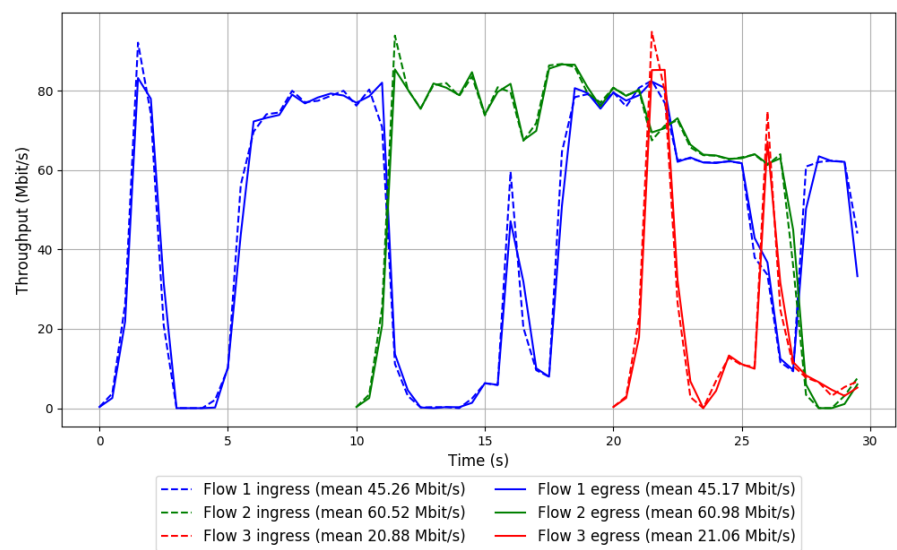
-- Flow 3:

Average throughput: 21.06 Mbit/s

95th percentile per-packet one-way delay: 114.307 ms

Loss rate: 0.92%

Run 9: Report of QUIC Cubic — Data Link

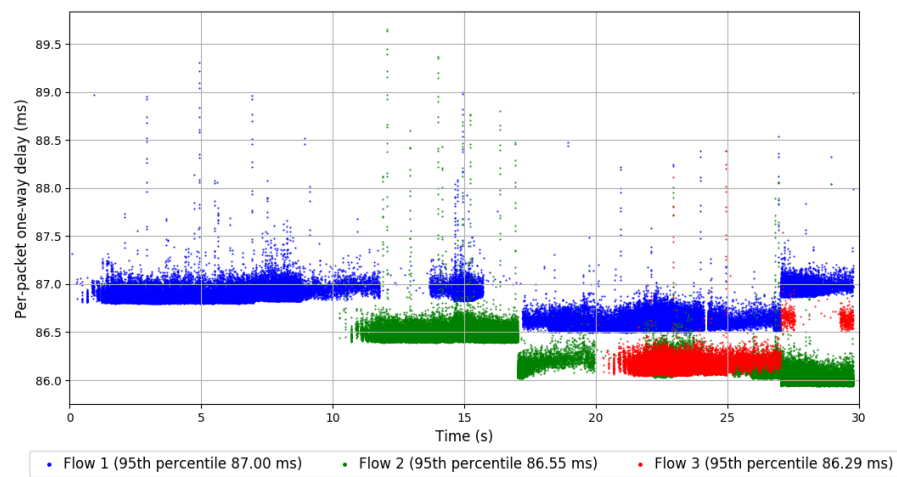
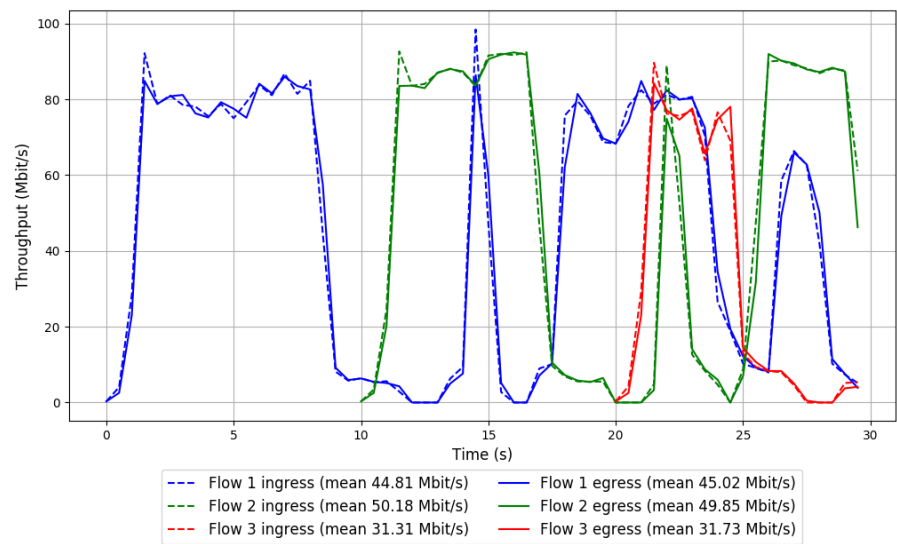


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-11-16 19:15:17
End at: 2017-11-16 19:15:47

# Below is generated by plot.py at 2017-11-16 22:05:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.40 Mbit/s
95th percentile per-packet one-way delay: 86.957 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 45.02 Mbit/s
95th percentile per-packet one-way delay: 86.999 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 49.85 Mbit/s
95th percentile per-packet one-way delay: 86.549 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 31.73 Mbit/s
95th percentile per-packet one-way delay: 86.291 ms
Loss rate: 0.43%
```

Run 10: Report of QUIC Cubic — Data Link

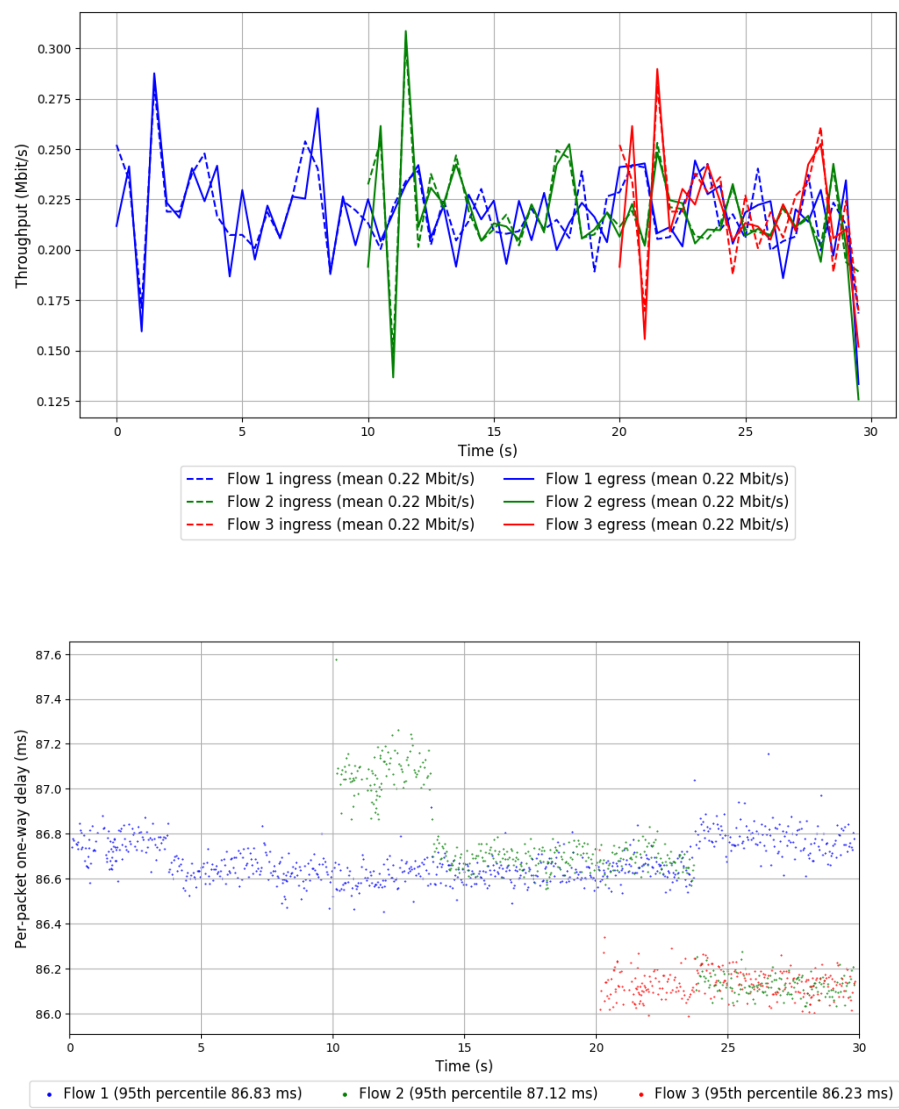


```
Run 1: Statistics of SReAM

Start at: 2017-11-16 17:20:40
End at: 2017-11-16 17:21:10

# Below is generated by plot.py at 2017-11-16 22:05:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.032 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.834 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.117 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.232 ms
Loss rate: 1.51%
```

Run 1: Report of SReAM — Data Link

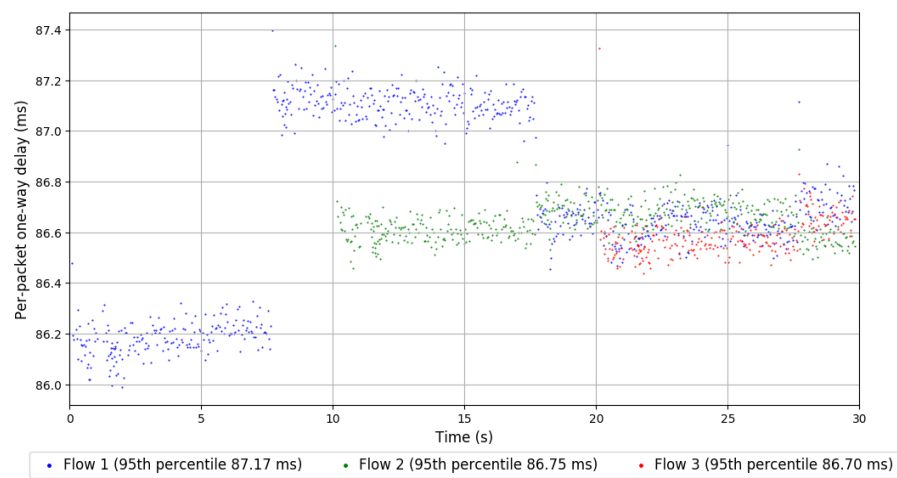
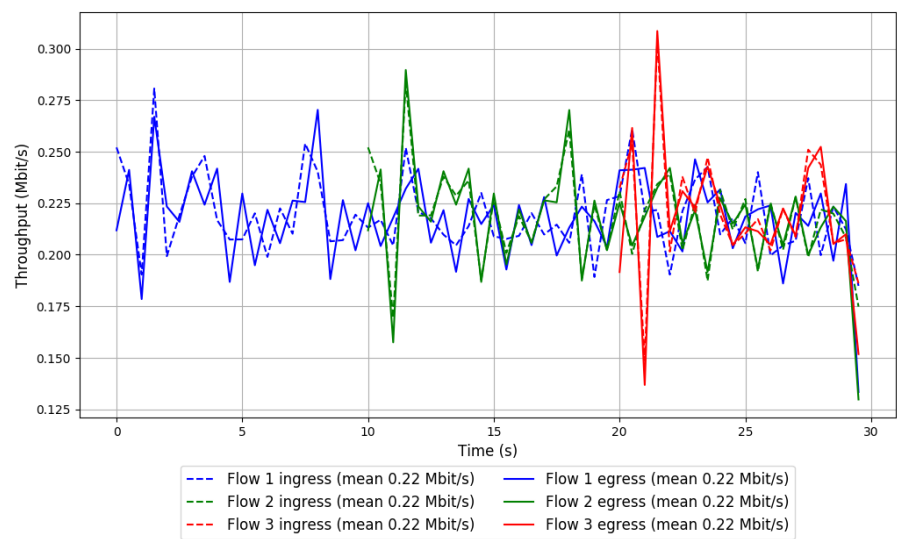


```
Run 2: Statistics of SReAM

Start at: 2017-11-16 17:34:06
End at: 2017-11-16 17:34:36

# Below is generated by plot.py at 2017-11-16 22:05:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.141 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.169 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.748 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.703 ms
Loss rate: 1.50%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-11-16 17:47:30

End at: 2017-11-16 17:48:00

Below is generated by plot.py at 2017-11-16 22:05:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 87.182 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.158 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.202 ms

Loss rate: 0.85%

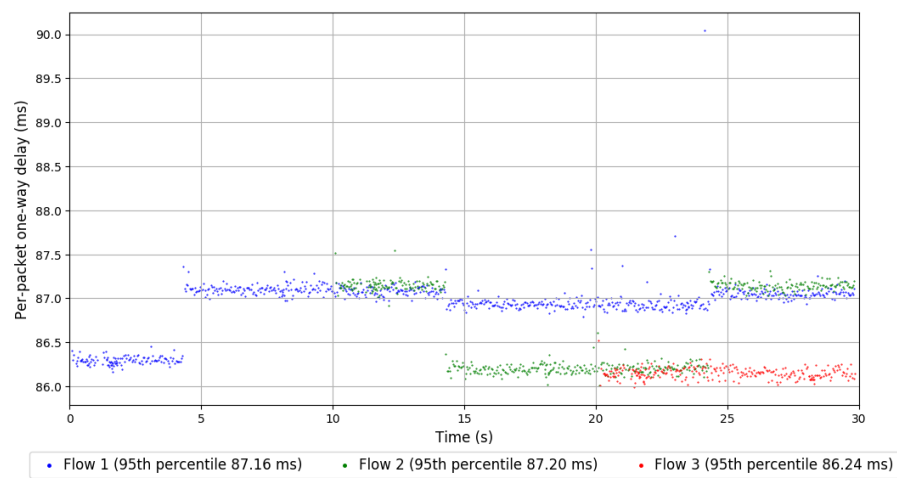
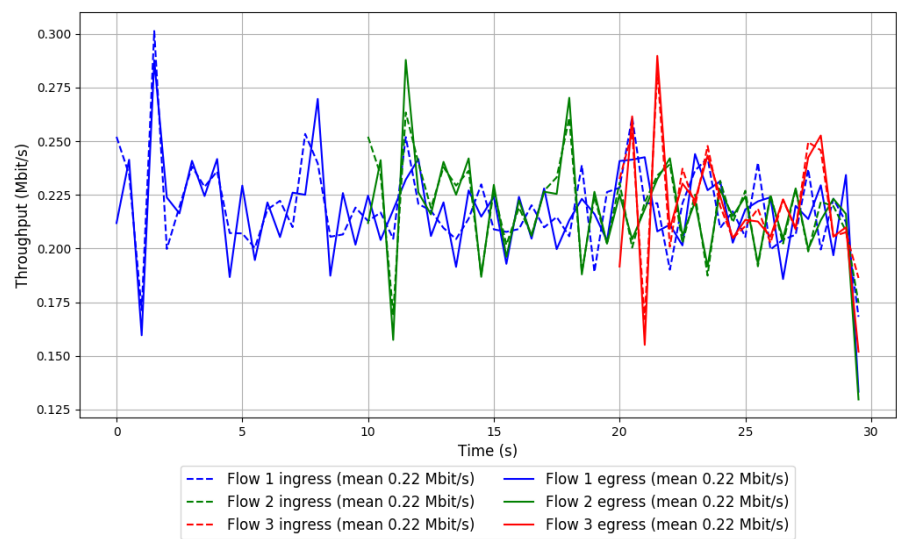
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.244 ms

Loss rate: 1.50%

Run 3: Report of SReAM — Data Link

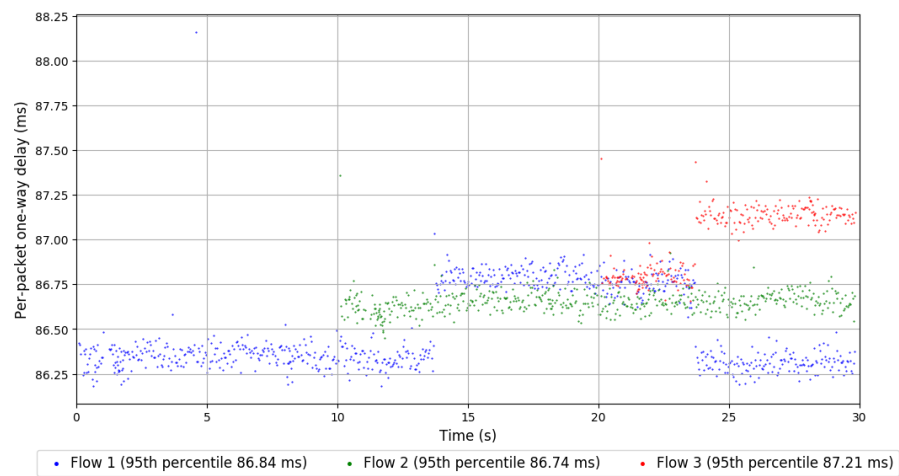
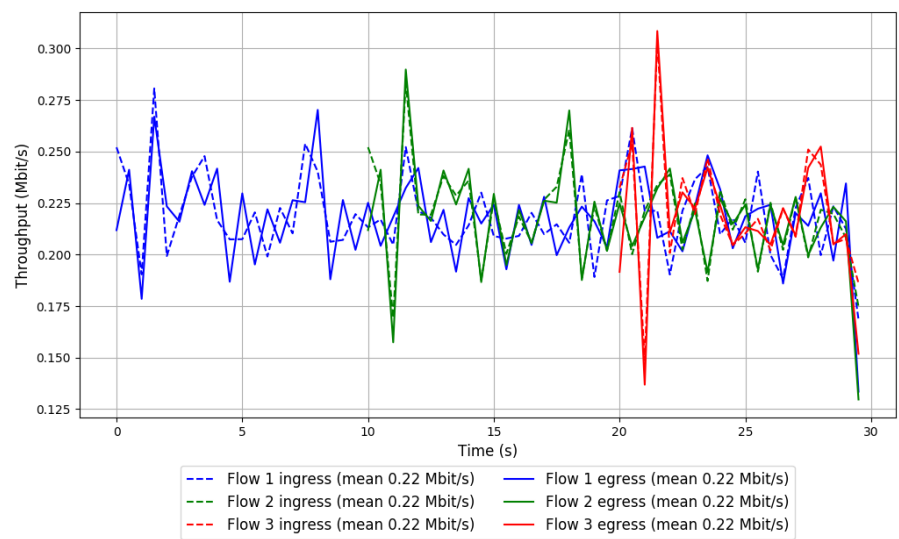


```
Run 4: Statistics of SReAM

Start at: 2017-11-16 18:00:50
End at: 2017-11-16 18:01:20

# Below is generated by plot.py at 2017-11-16 22:05:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.141 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.840 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.736 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.213 ms
Loss rate: 1.50%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2017-11-16 18:13:46

End at: 2017-11-16 18:14:16

Below is generated by plot.py at 2017-11-16 22:05:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 87.259 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.52%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.247 ms

Loss rate: 0.85%

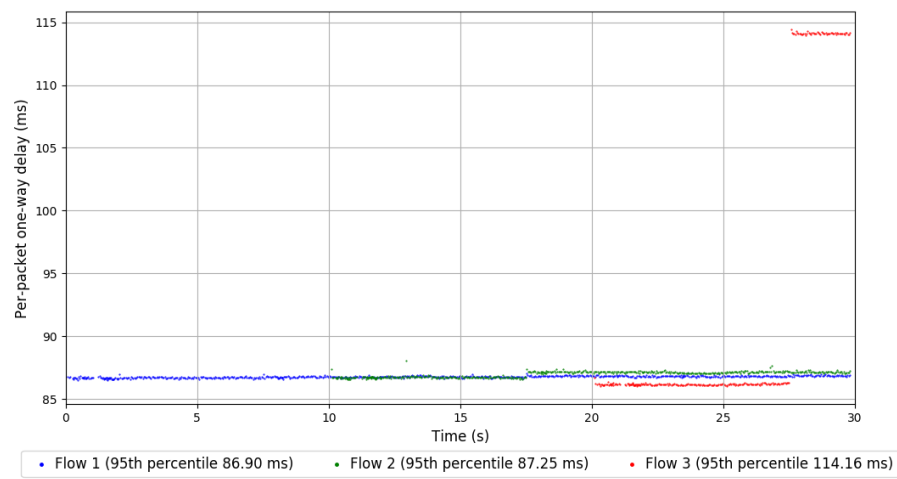
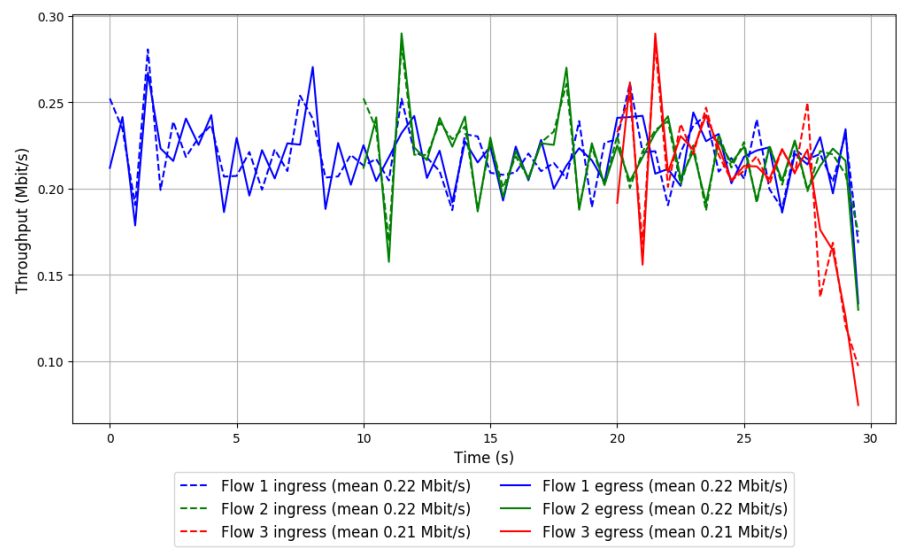
-- Flow 3:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 114.158 ms

Loss rate: 1.07%

Run 5: Report of SReAM — Data Link

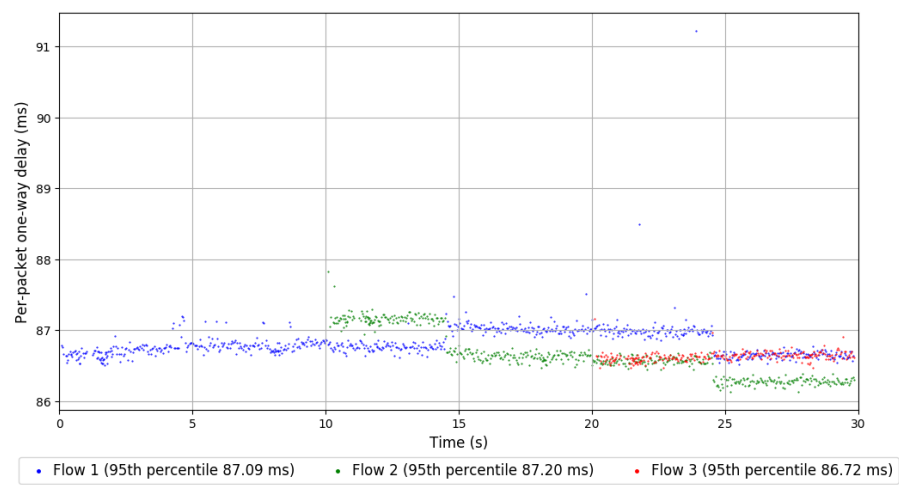
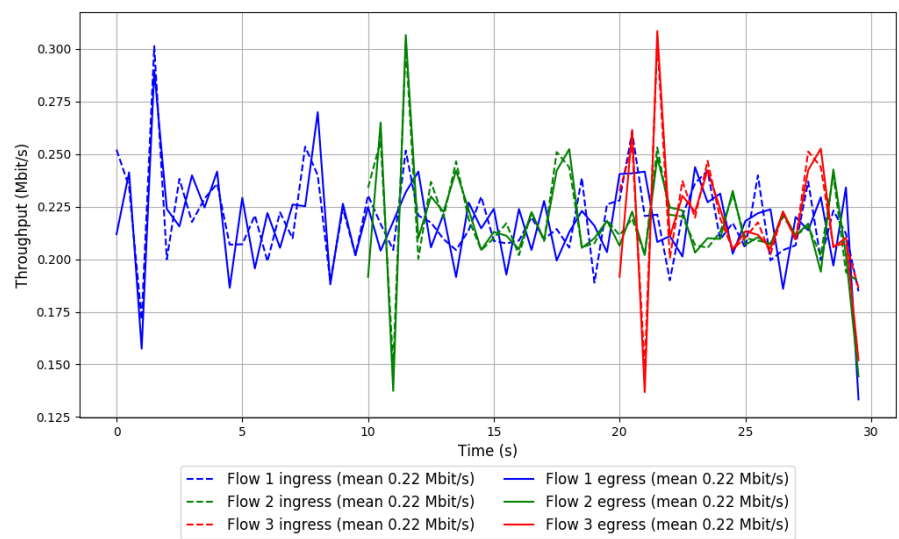


```
Run 6: Statistics of SCReAM

Start at: 2017-11-16 18:27:10
End at: 2017-11-16 18:27:40

# Below is generated by plot.py at 2017-11-16 22:05:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.158 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.089 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.197 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.715 ms
Loss rate: 1.50%
```

Run 6: Report of SReAM — Data Link

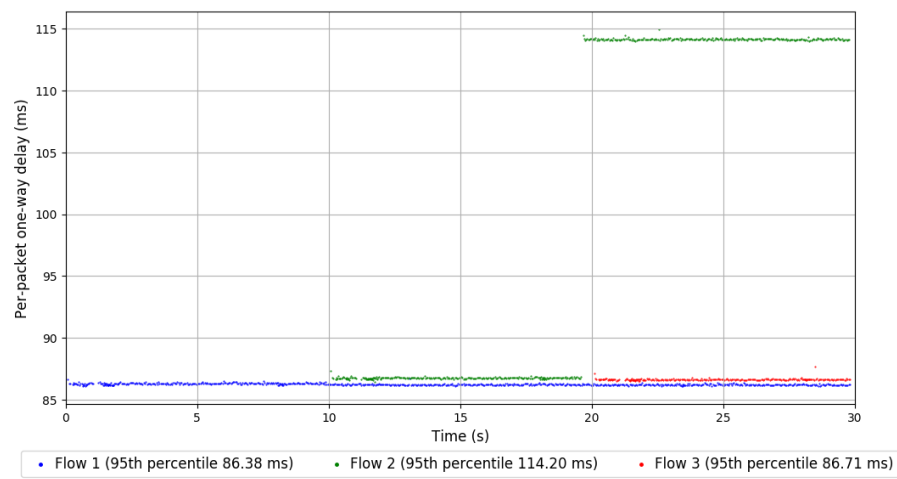
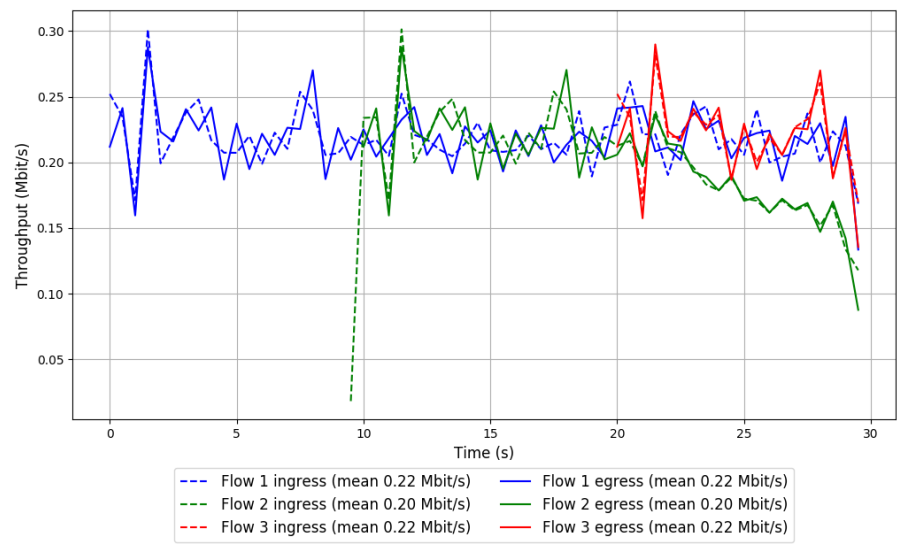


```
Run 7: Statistics of SCReAM

Start at: 2017-11-16 18:40:24
End at: 2017-11-16 18:40:54

# Below is generated by plot.py at 2017-11-16 22:05:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 114.155 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.380 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 114.203 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.708 ms
Loss rate: 1.50%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2017-11-16 18:53:46

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

Below is generated by plot.py at 2017-11-16 22:05:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 87.220 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.189 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.617 ms

Loss rate: 0.85%

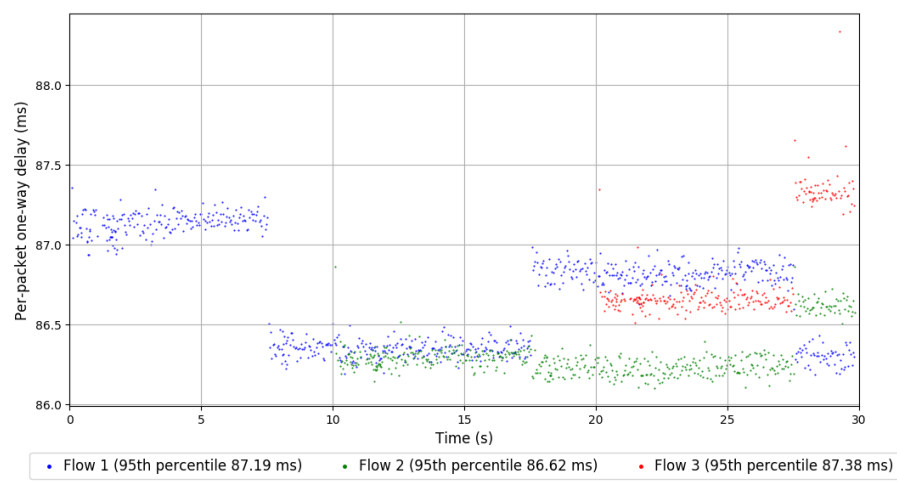
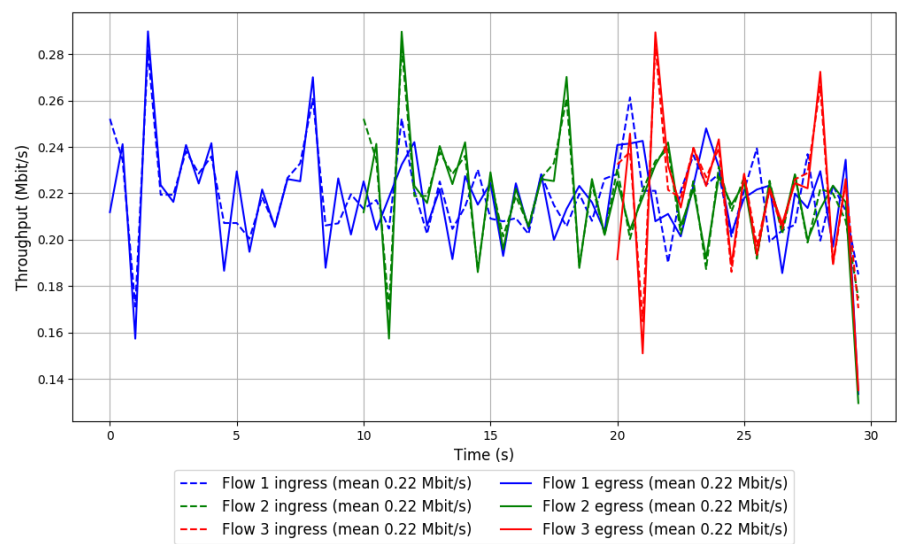
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.377 ms

Loss rate: 1.53%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-11-16 19:06:59

End at: 2017-11-16 19:07:29

Below is generated by plot.py at 2017-11-16 22:05:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 114.180 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.737 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 114.232 ms

Loss rate: 0.66%

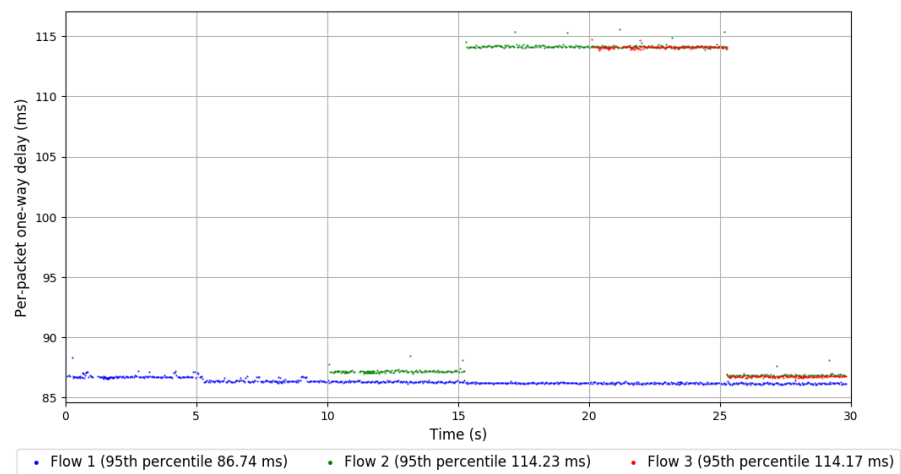
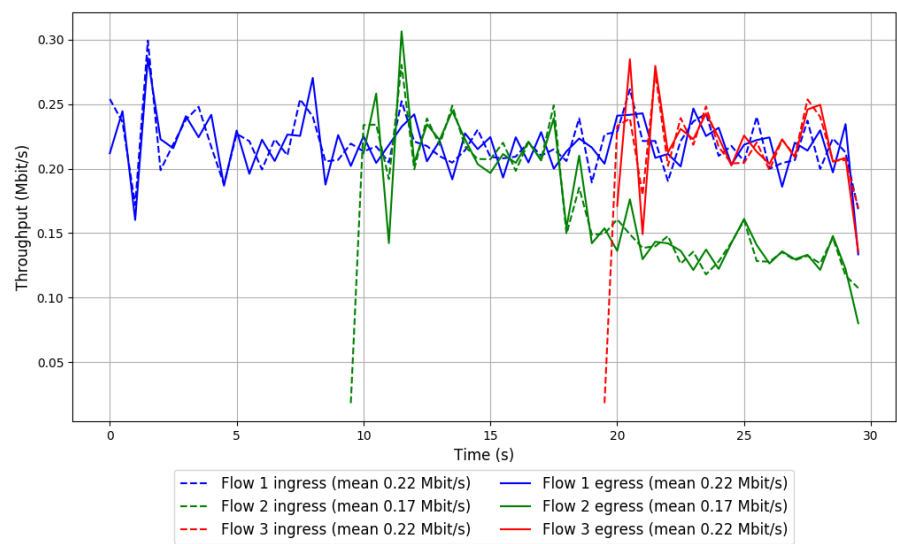
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.166 ms

Loss rate: 1.51%

Run 9: Report of SCRaM — Data Link

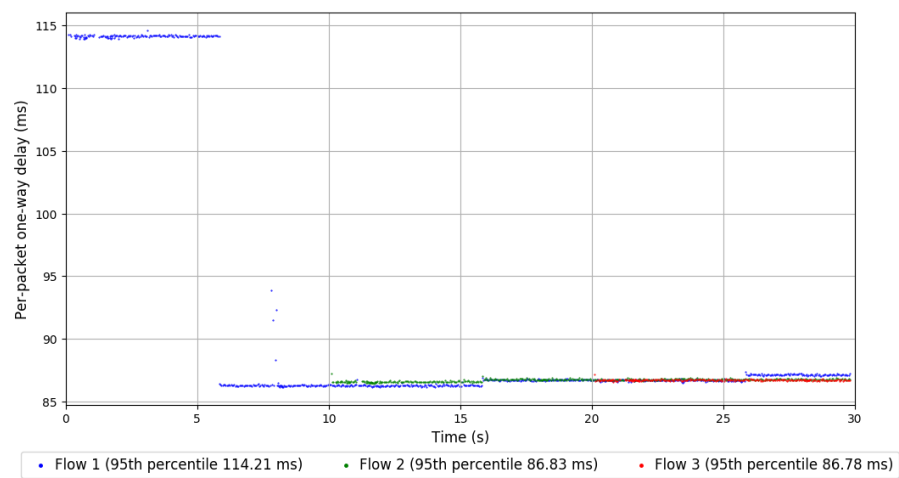
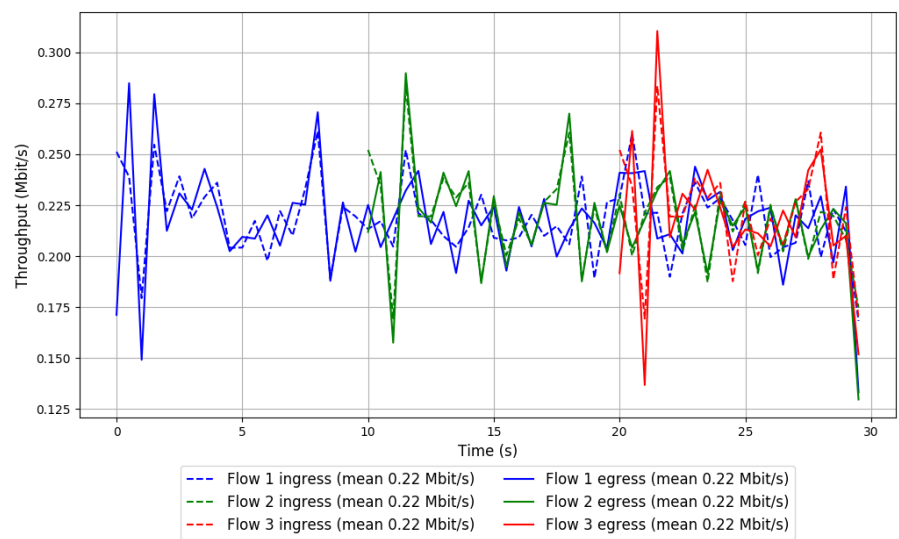


```
Run 10: Statistics of SReAM

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

# Below is generated by plot.py at 2017-11-16 22:05:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 114.170 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.210 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.834 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.782 ms
Loss rate: 1.50%
```

Run 10: Report of SReAM — Data Link

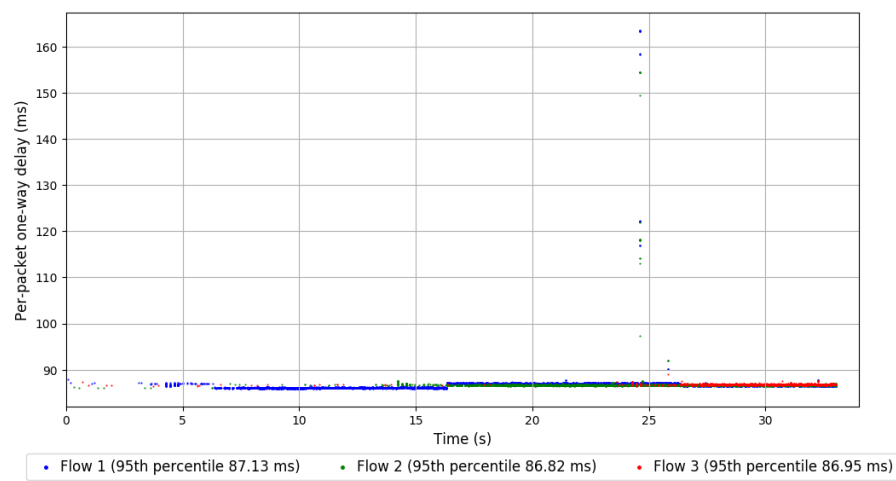
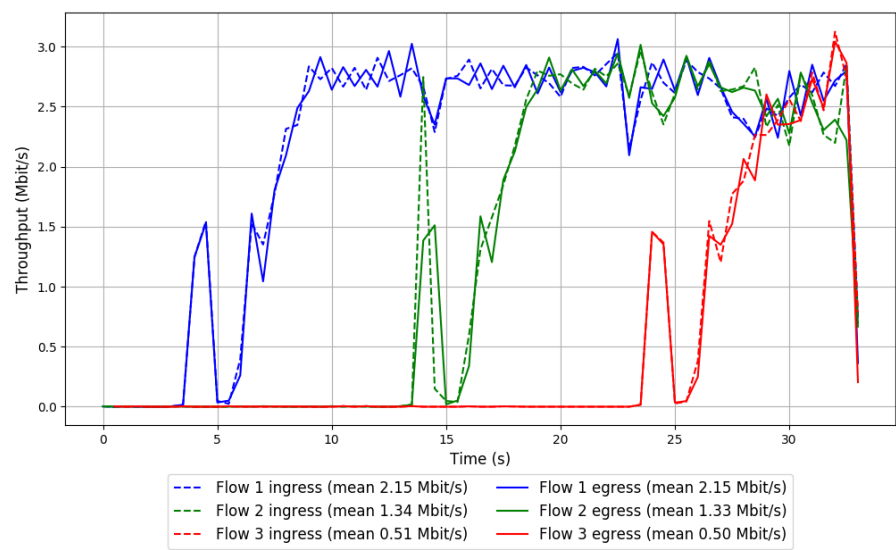


```
Run 1: Statistics of WebRTC media

Start at: 2017-11-16 17:09:21
End at: 2017-11-16 17:09:51

# Below is generated by plot.py at 2017-11-16 22:05:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.96 Mbit/s
95th percentile per-packet one-way delay: 87.101 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 2.15 Mbit/s
95th percentile per-packet one-way delay: 87.129 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 86.821 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 86.946 ms
Loss rate: 3.07%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-11-16 17:22:37

End at: 2017-11-16 17:23:07

Below is generated by plot.py at 2017-11-16 22:05:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.07 Mbit/s

95th percentile per-packet one-way delay: 87.062 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 86.790 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 1.63 Mbit/s

95th percentile per-packet one-way delay: 87.034 ms

Loss rate: 0.69%

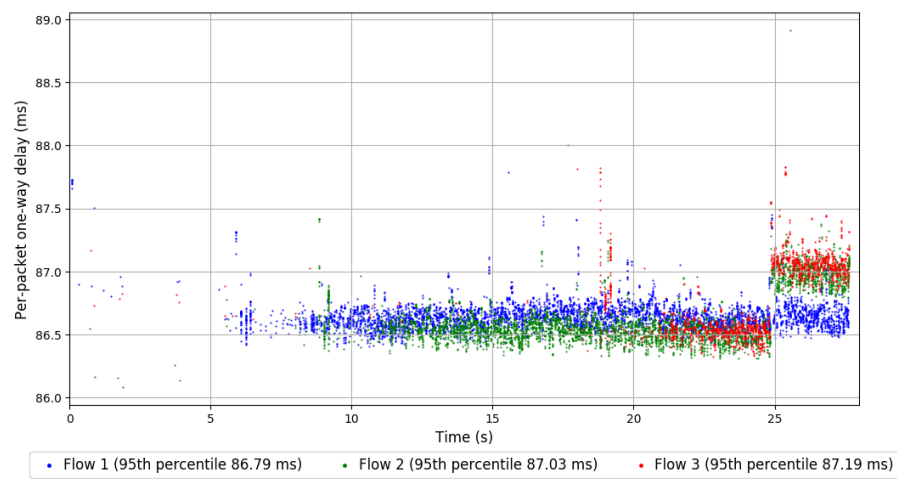
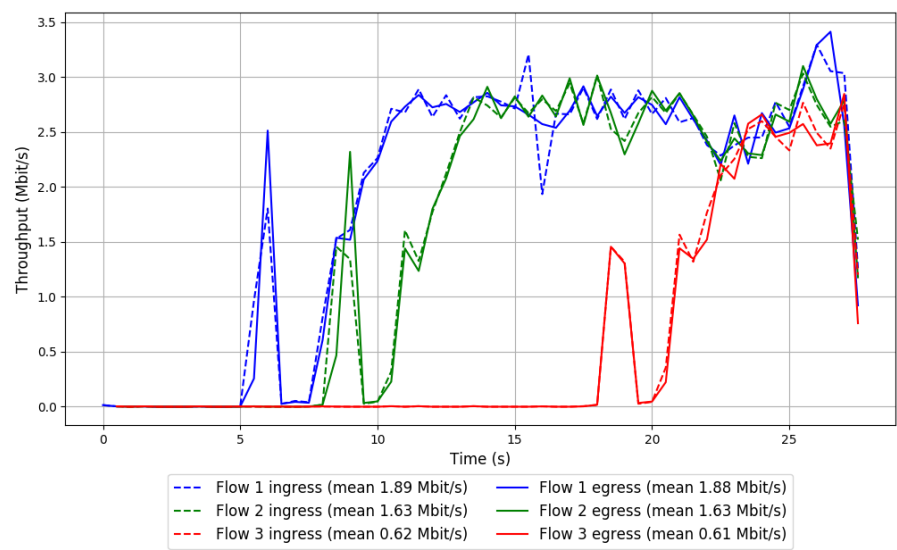
-- Flow 3:

Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 87.188 ms

Loss rate: 2.67%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-16 17:36:02

End at: 2017-11-16 17:36:32

Below is generated by plot.py at 2017-11-16 22:05:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.05 Mbit/s

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

Loss rate: 1.11%

-- Flow 1:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 87.207 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 1.64 Mbit/s

95th percentile per-packet one-way delay: 87.208 ms

Loss rate: 0.79%

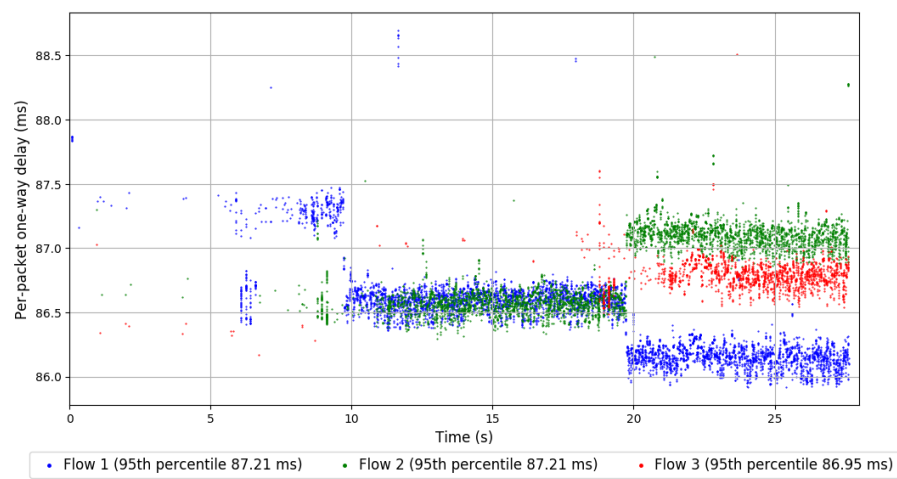
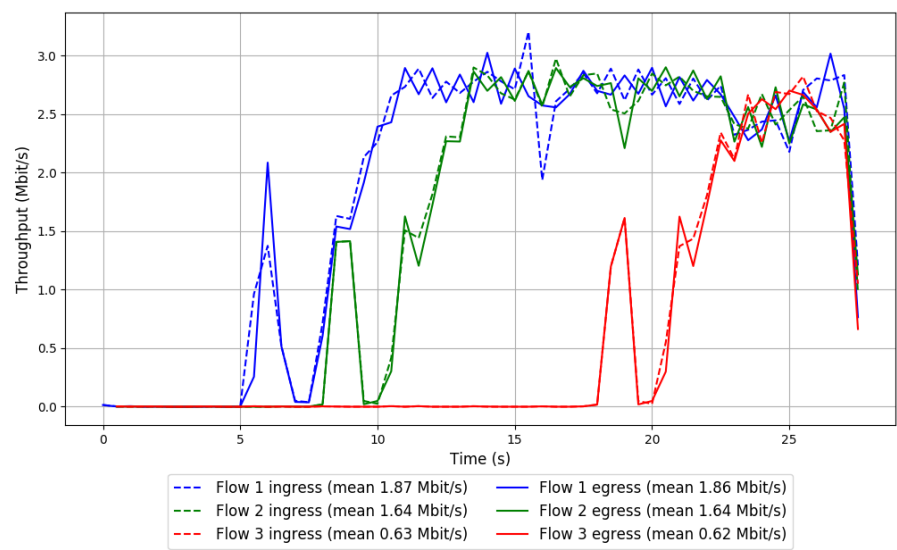
-- Flow 3:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 86.953 ms

Loss rate: 2.42%

Run 3: Report of WebRTC media — Data Link

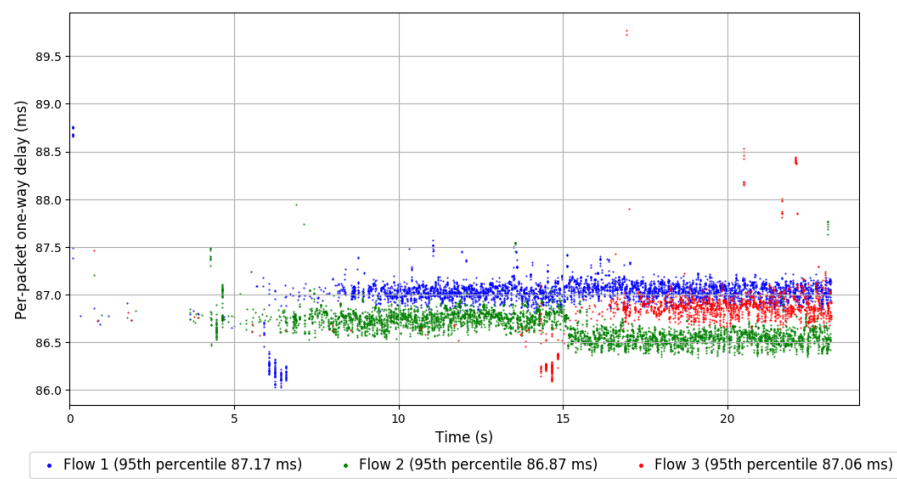
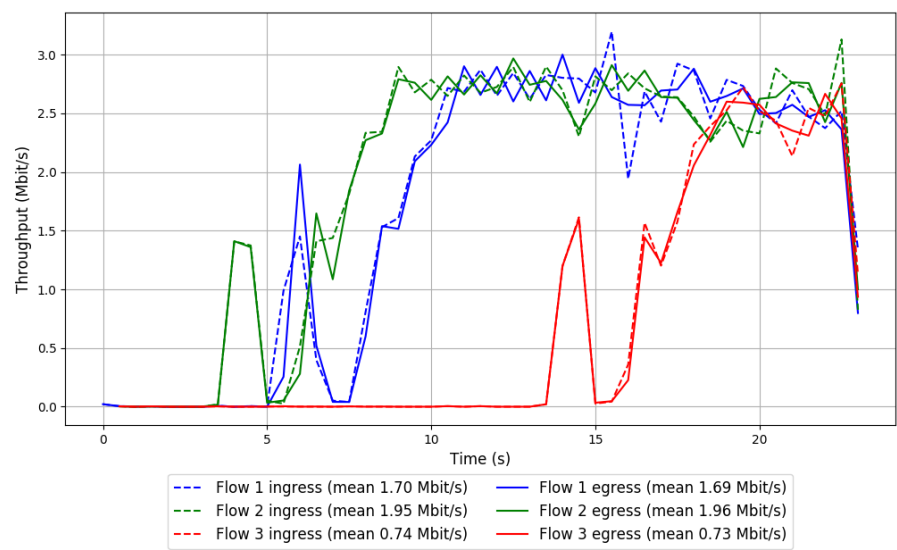


Run 4: Statistics of WebRTC media

Start at: 2017-11-16 17:49:22

End at: 2017-11-16 17:49:52

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-16 18:02:35

End at: 2017-11-16 18:03:05

Run 5: Report of WebRTC media — Data Link

Figure is missing

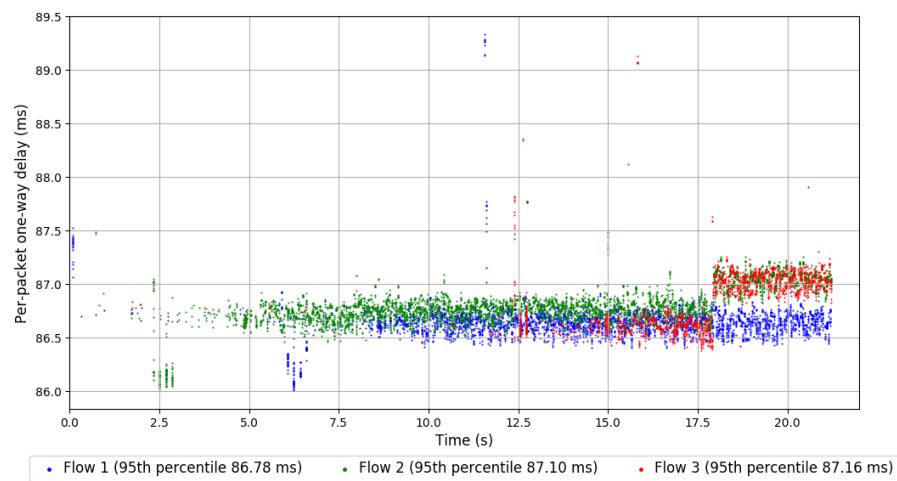
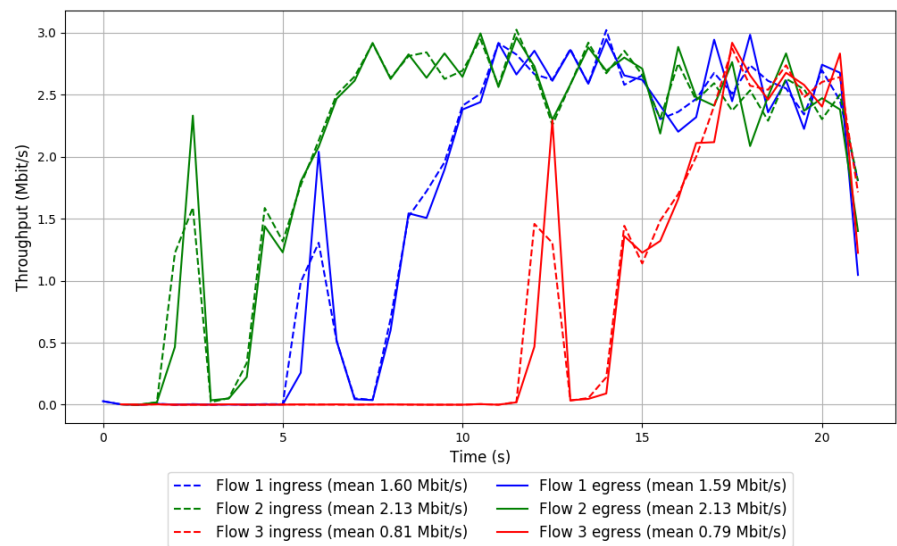
Figure is missing

Run 6: Statistics of WebRTC media

Start at: 2017-11-16 18:15:38

End at: 2017-11-16 18:16:08

Run 6: Report of WebRTC media — Data Link

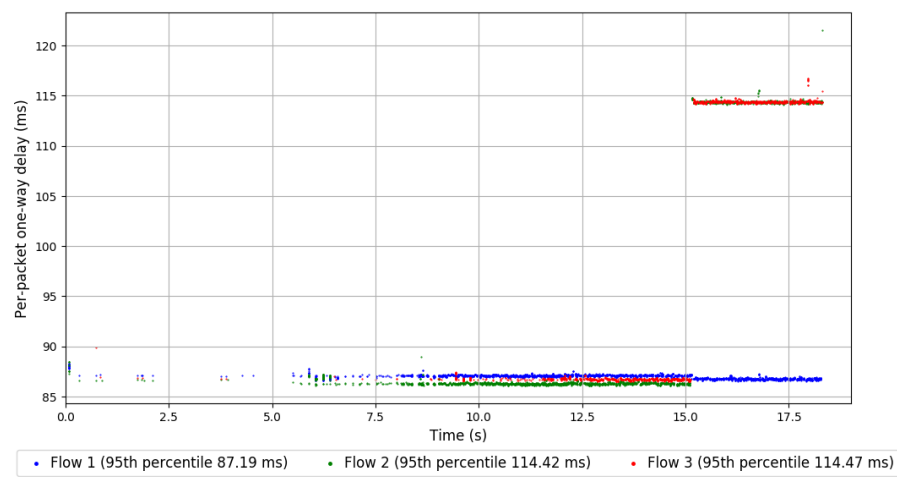
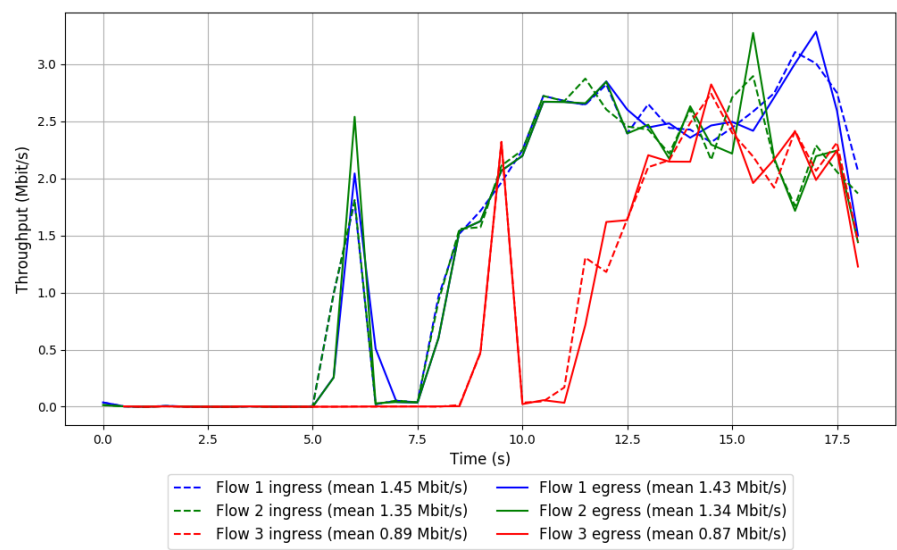


Run 7: Statistics of WebRTC media

Start at: 2017-11-16 18:28:57

End at: 2017-11-16 18:29:27

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-16 18:42:19

End at: 2017-11-16 18:42:49

Below is generated by plot.py at 2017-11-16 22:05:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 87.198 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 86.351 ms

Loss rate: 1.35%

-- Flow 2:

Average throughput: 1.83 Mbit/s

95th percentile per-packet one-way delay: 86.833 ms

Loss rate: 0.78%

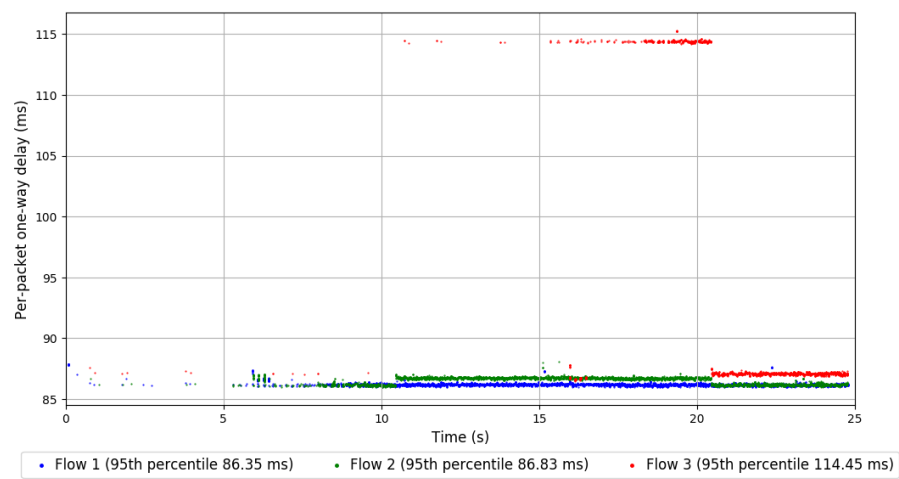
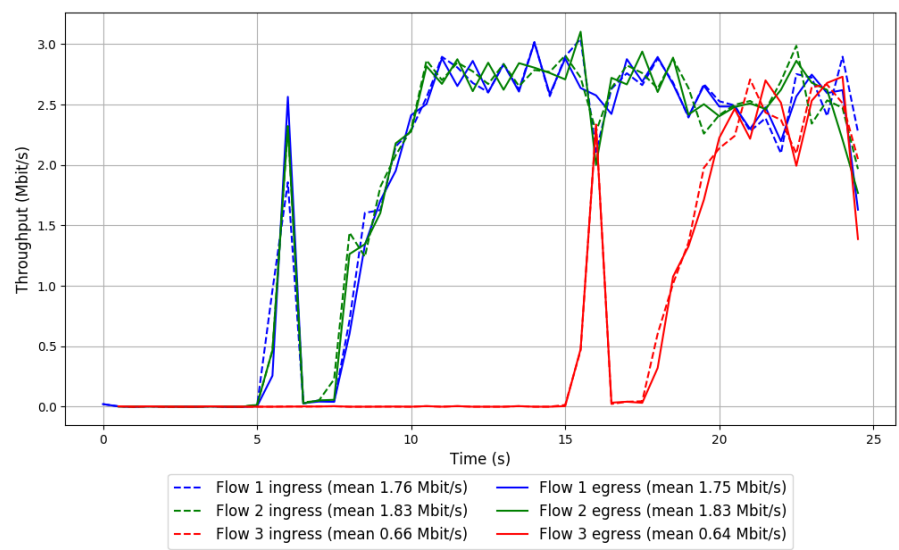
-- Flow 3:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 114.453 ms

Loss rate: 2.98%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-16 18:55:32

End at: 2017-11-16 18:56:02

Run 9: Report of WebRTC media — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of WebRTC media

Start at: 2017-11-16 19:08:51

End at: 2017-11-16 19:09:21

Below is generated by plot.py at 2017-11-16 22:05:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 87.157 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 87.186 ms

Loss rate: 1.34%

-- Flow 2:

Average throughput: 1.85 Mbit/s

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

Loss rate: 0.85%

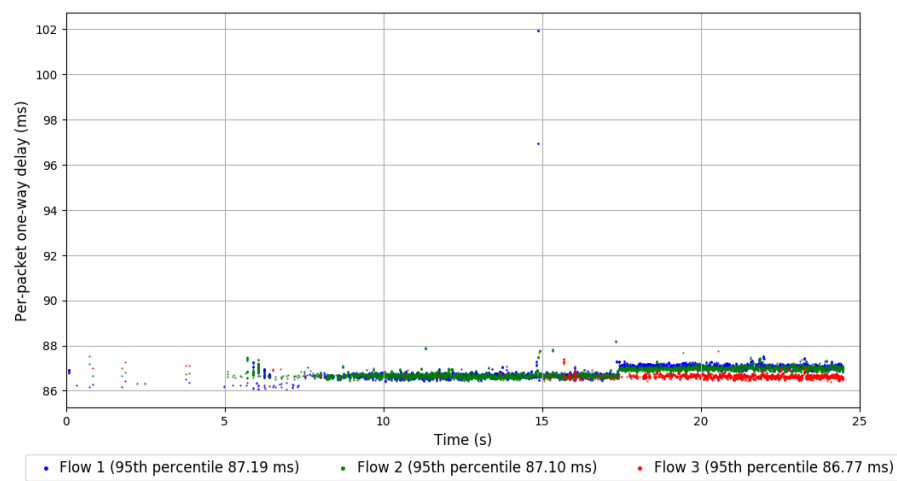
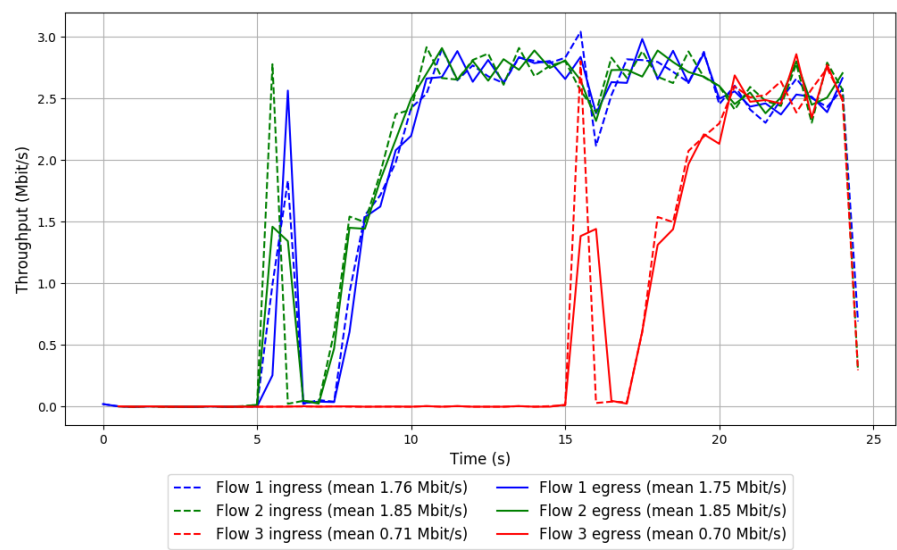
-- Flow 3:

Average throughput: 0.70 Mbit/s

95th percentile per-packet one-way delay: 86.771 ms

Loss rate: 2.21%

Run 10: Report of WebRTC media — Data Link

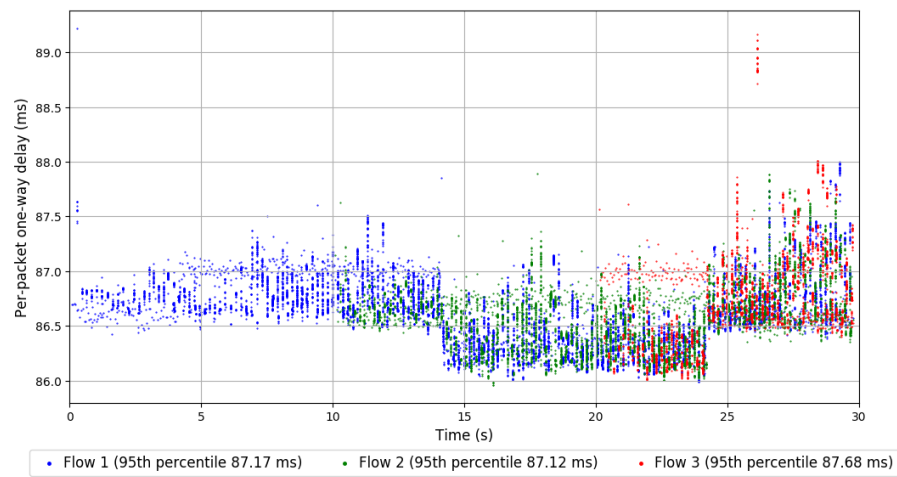
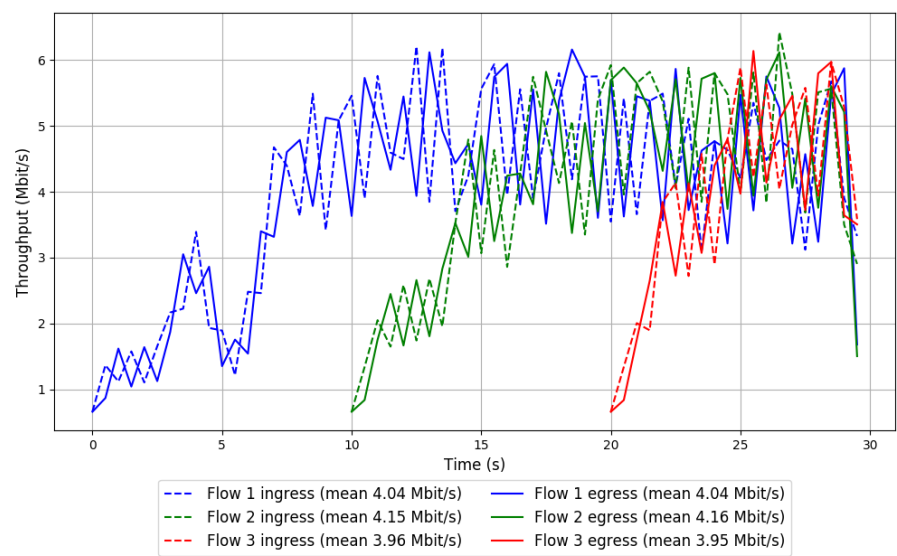


```
Run 1: Statistics of Sprout

Start at: 2017-11-16 17:16:40
End at: 2017-11-16 17:17:10

# Below is generated by plot.py at 2017-11-16 22:05:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.08 Mbit/s
95th percentile per-packet one-way delay: 87.221 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 4.04 Mbit/s
95th percentile per-packet one-way delay: 87.166 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 4.16 Mbit/s
95th percentile per-packet one-way delay: 87.125 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 3.95 Mbit/s
95th percentile per-packet one-way delay: 87.677 ms
Loss rate: 2.22%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-11-16 17:30:03

End at: 2017-11-16 17:30:33

Below is generated by plot.py at 2017-11-16 22:05:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.28 Mbit/s

95th percentile per-packet one-way delay: 87.304 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 4.43 Mbit/s

95th percentile per-packet one-way delay: 87.323 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 4.33 Mbit/s

95th percentile per-packet one-way delay: 87.329 ms

Loss rate: 1.02%

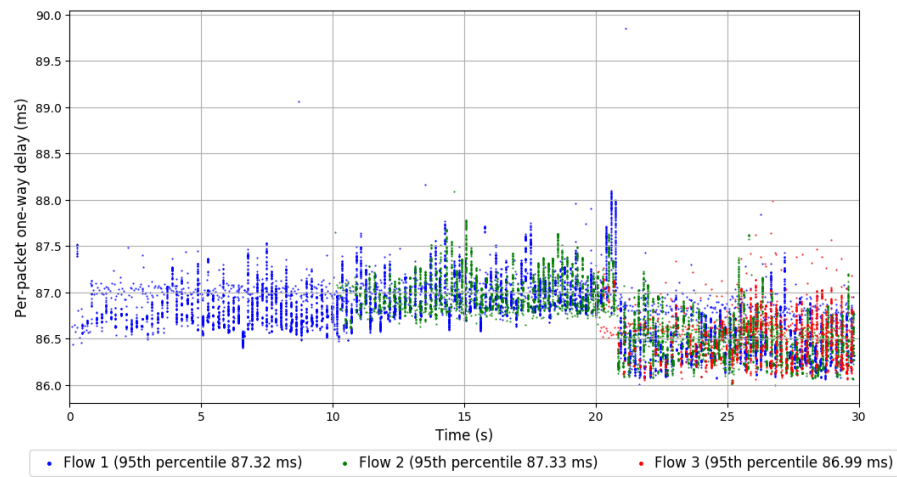
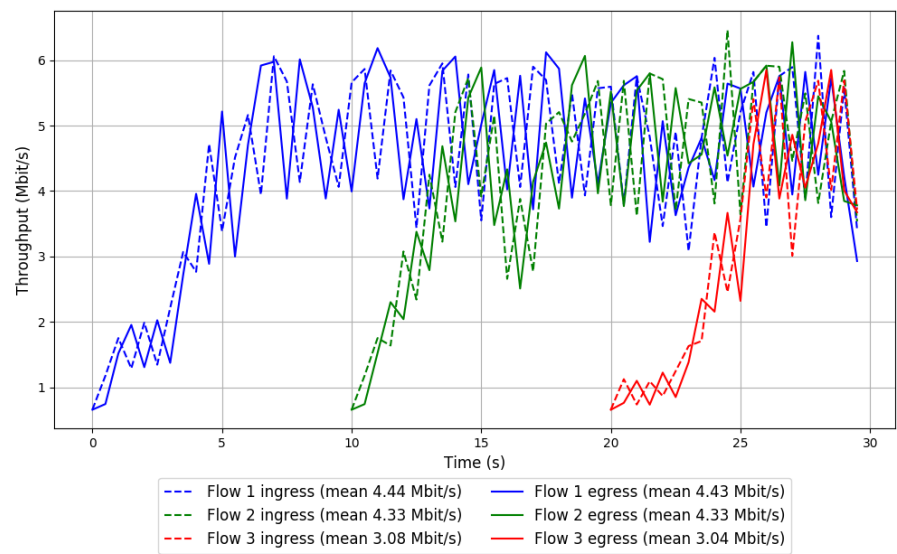
-- Flow 3:

Average throughput: 3.04 Mbit/s

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

Loss rate: 3.07%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-11-16 17:43:28

End at: 2017-11-16 17:43:58

Below is generated by plot.py at 2017-11-16 22:05:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 87.105 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 3.90 Mbit/s

95th percentile per-packet one-way delay: 87.114 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 87.105 ms

Loss rate: 1.22%

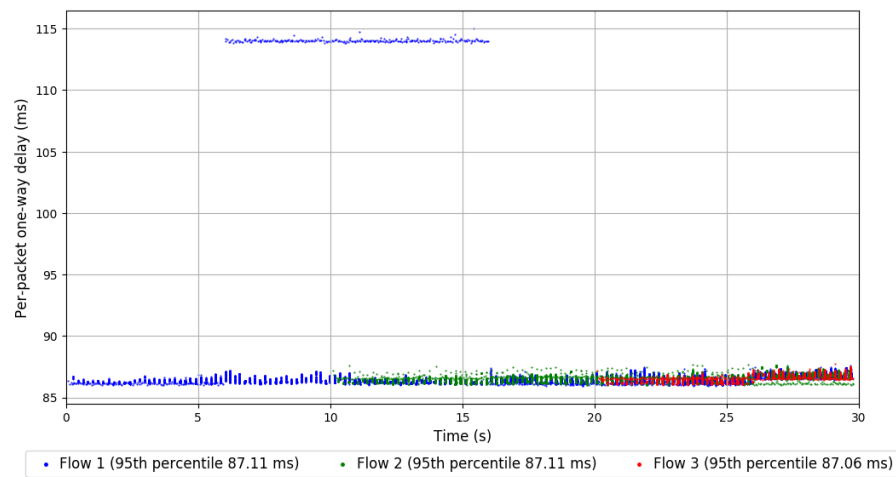
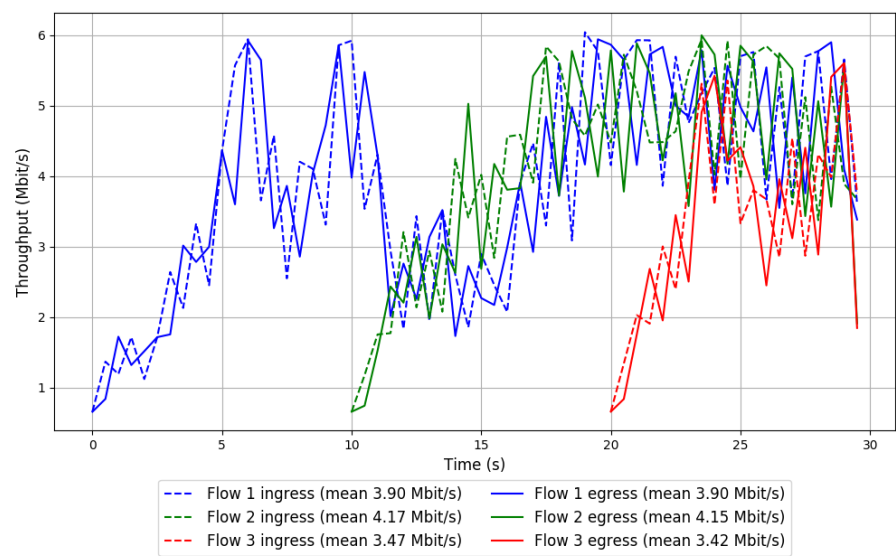
-- Flow 3:

Average throughput: 3.42 Mbit/s

95th percentile per-packet one-way delay: 87.059 ms

Loss rate: 2.81%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-16 17:56:48

End at: 2017-11-16 17:57:18

Below is generated by plot.py at 2017-11-16 22:05:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.01 Mbit/s

95th percentile per-packet one-way delay: 87.182 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 4.09 Mbit/s

95th percentile per-packet one-way delay: 87.182 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 4.29 Mbit/s

95th percentile per-packet one-way delay: 87.217 ms

Loss rate: 0.00%

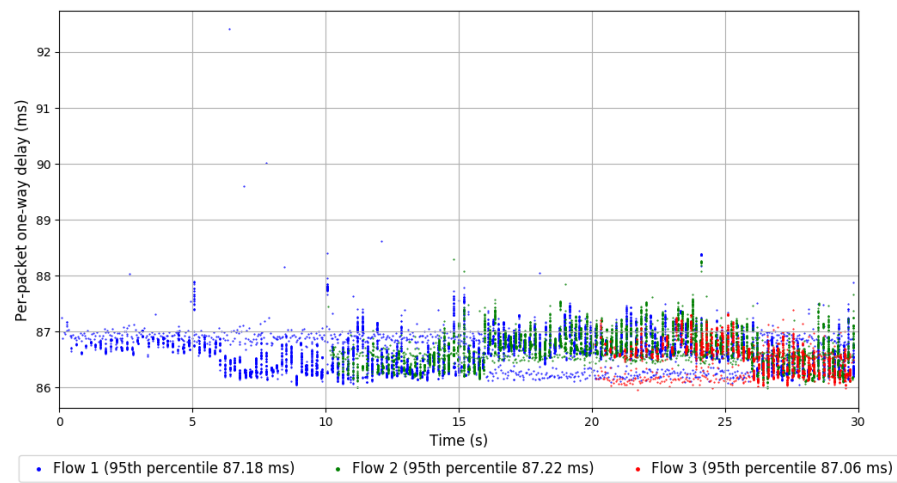
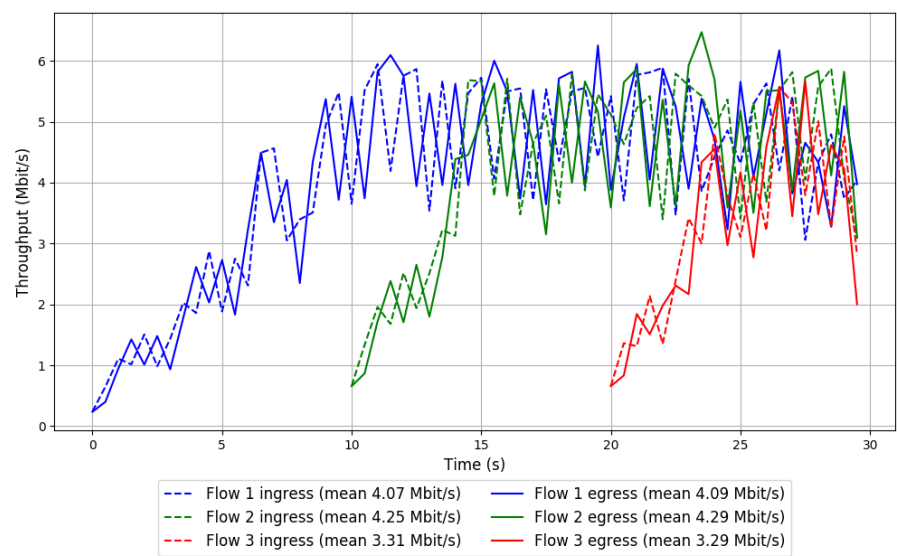
-- Flow 3:

Average throughput: 3.29 Mbit/s

95th percentile per-packet one-way delay: 87.065 ms

Loss rate: 2.32%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-16 18:09:46

End at: 2017-11-16 18:10:16

Below is generated by plot.py at 2017-11-16 22:05:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.23 Mbit/s

95th percentile per-packet one-way delay: 87.320 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 3.65 Mbit/s

95th percentile per-packet one-way delay: 87.333 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 3.57 Mbit/s

95th percentile per-packet one-way delay: 87.239 ms

Loss rate: 1.21%

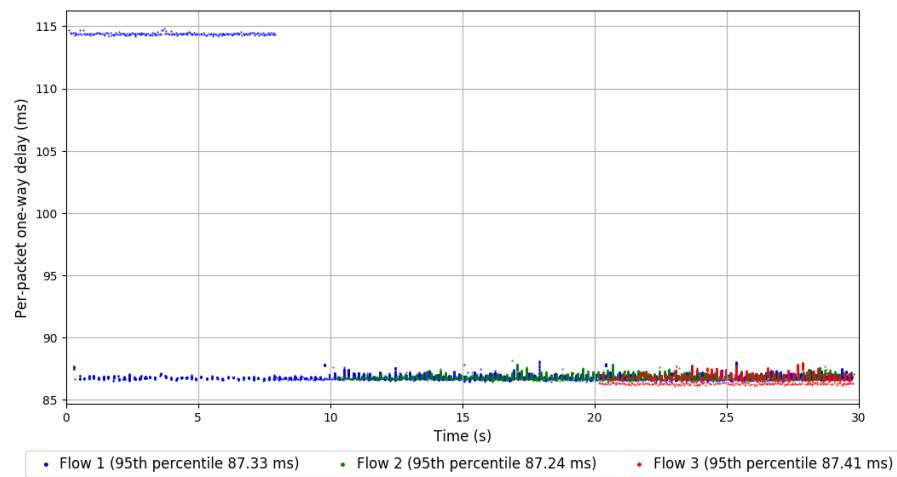
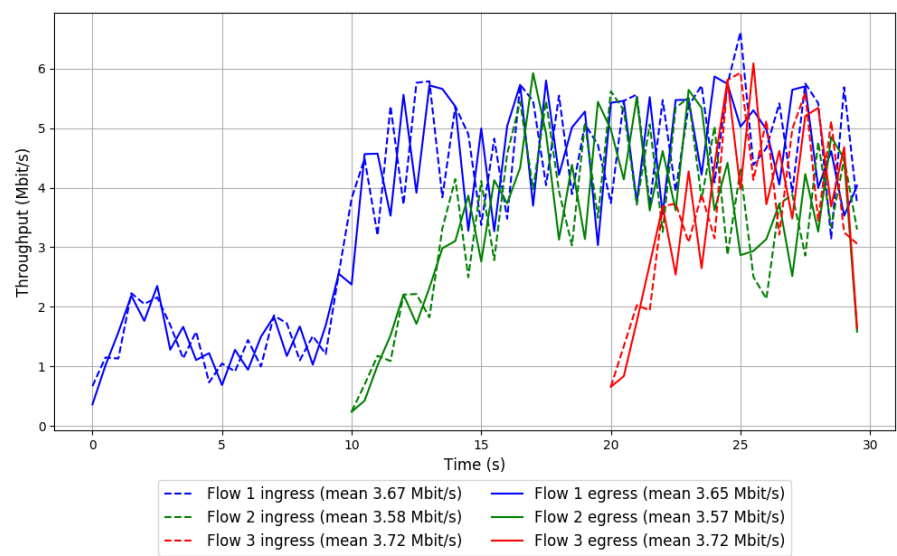
-- Flow 3:

Average throughput: 3.72 Mbit/s

95th percentile per-packet one-way delay: 87.413 ms

Loss rate: 1.94%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-11-16 18:23:07

End at: 2017-11-16 18:23:37

Below is generated by plot.py at 2017-11-16 22:05:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 87.415 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 4.02 Mbit/s

95th percentile per-packet one-way delay: 87.403 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 87.470 ms

Loss rate: 1.10%

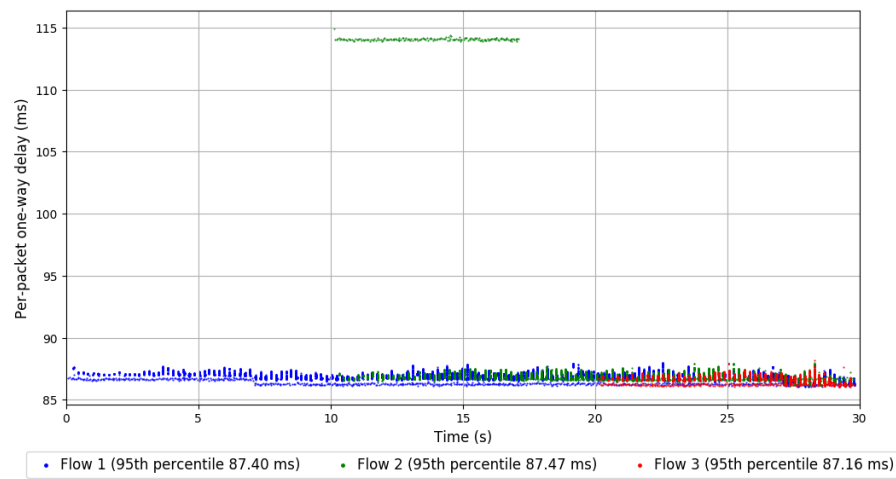
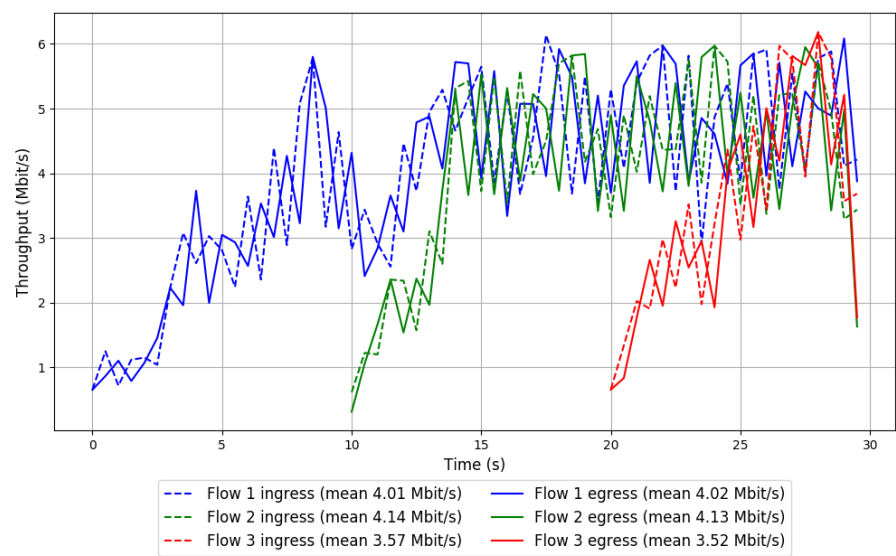
-- Flow 3:

Average throughput: 3.52 Mbit/s

95th percentile per-packet one-way delay: 87.158 ms

Loss rate: 2.73%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-16 18:36:21

End at: 2017-11-16 18:36:51

Below is generated by plot.py at 2017-11-16 22:05:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.37 Mbit/s

95th percentile per-packet one-way delay: 87.367 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 4.59 Mbit/s

95th percentile per-packet one-way delay: 87.368 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 87.410 ms

Loss rate: 1.05%

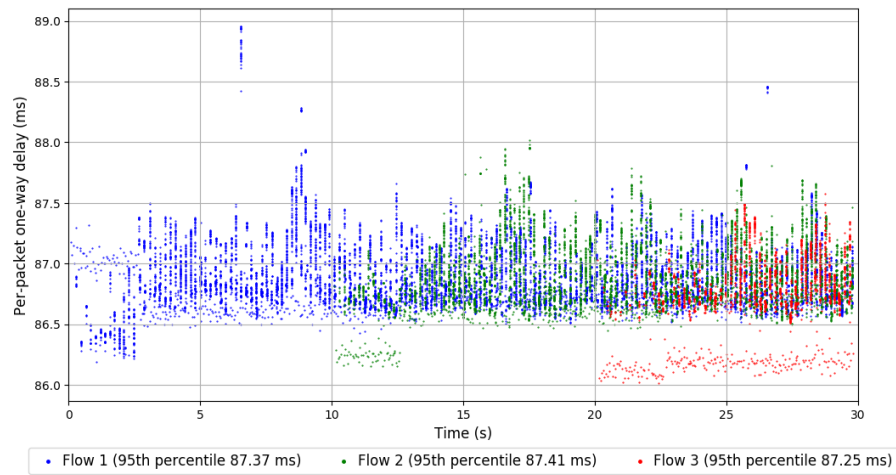
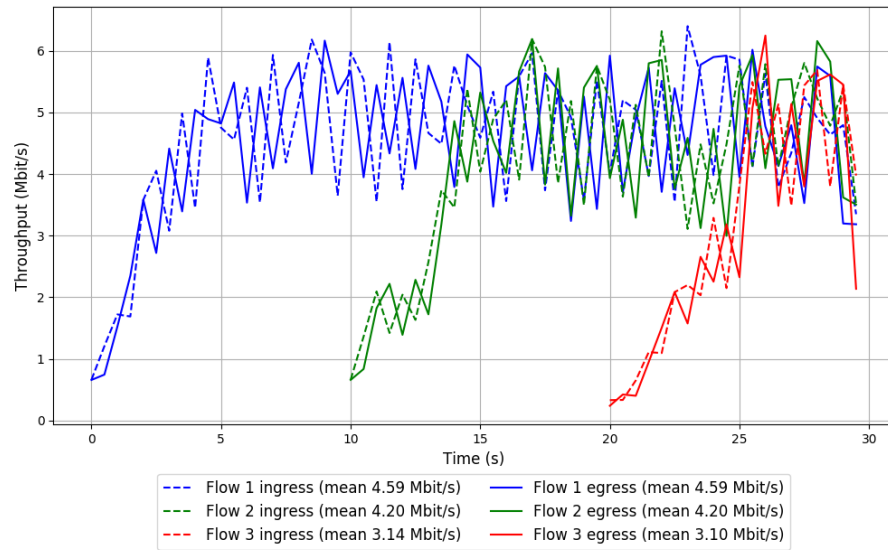
-- Flow 3:

Average throughput: 3.10 Mbit/s

95th percentile per-packet one-way delay: 87.255 ms

Loss rate: 2.98%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-16 18:49:45

End at: 2017-11-16 18:50:15

Below is generated by plot.py at 2017-11-16 22:05:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 87.470 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 87.336 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 3.86 Mbit/s

95th percentile per-packet one-way delay: 87.545 ms

Loss rate: 1.20%

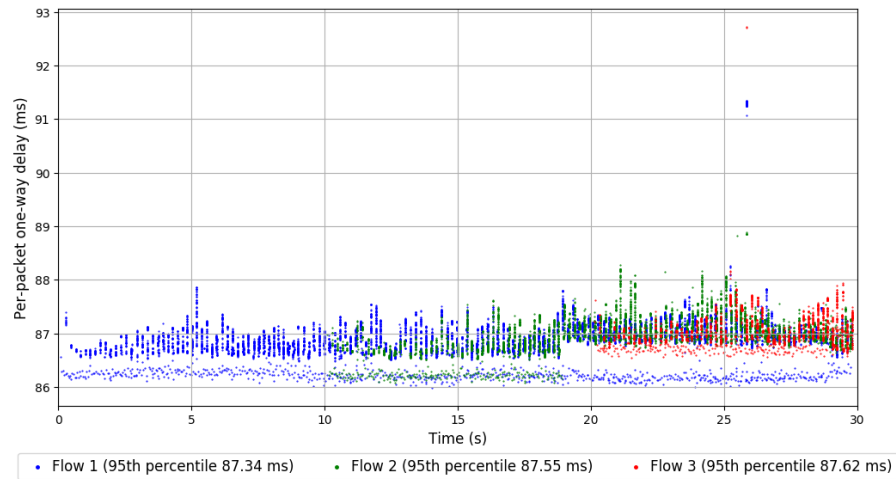
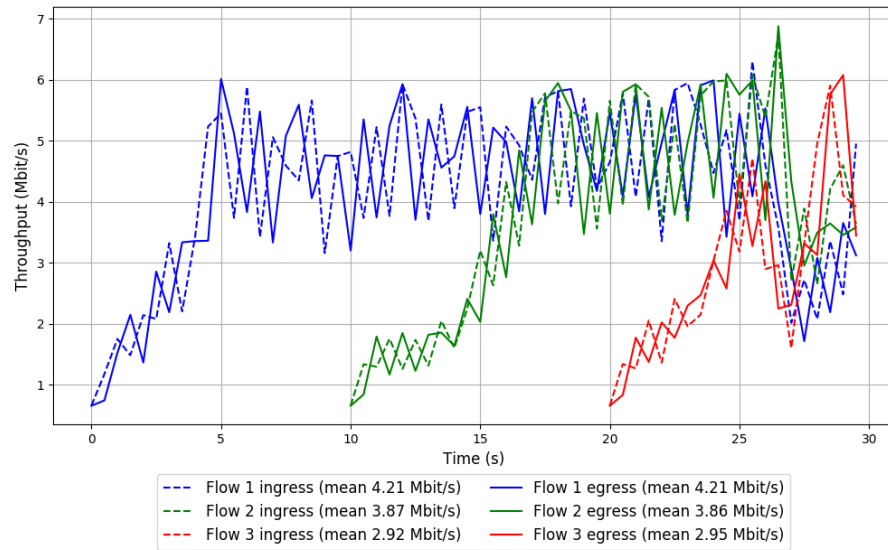
-- Flow 3:

Average throughput: 2.95 Mbit/s

95th percentile per-packet one-way delay: 87.618 ms

Loss rate: 0.83%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-16 19:02:57

End at: 2017-11-16 19:03:27

Below is generated by plot.py at 2017-11-16 22:05:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.30 Mbit/s

95th percentile per-packet one-way delay: 87.353 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 4.11 Mbit/s

95th percentile per-packet one-way delay: 87.329 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 4.49 Mbit/s

95th percentile per-packet one-way delay: 87.363 ms

Loss rate: 1.12%

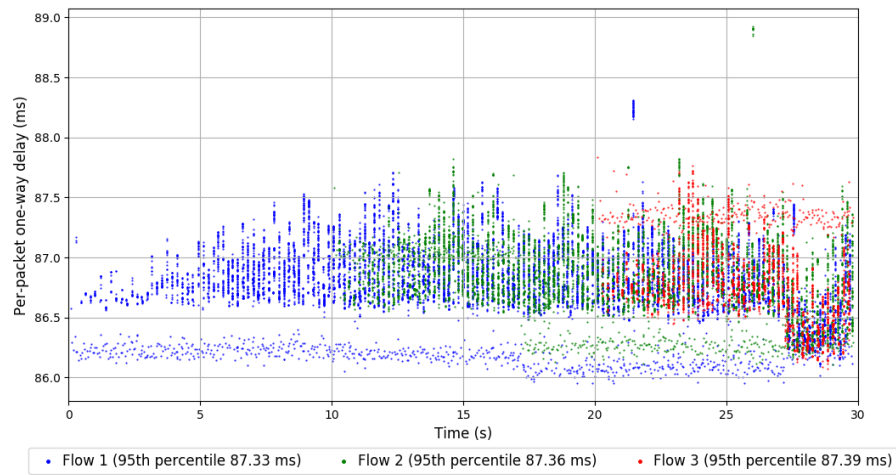
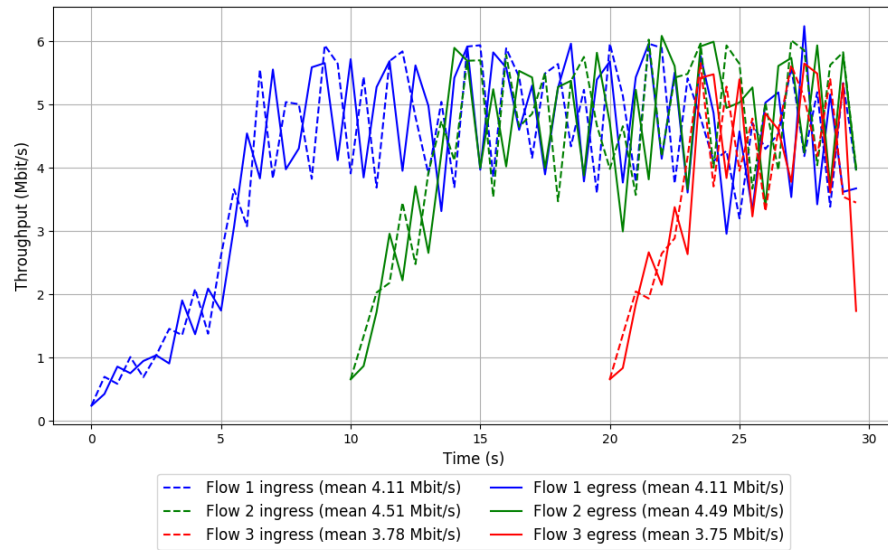
-- Flow 3:

Average throughput: 3.75 Mbit/s

95th percentile per-packet one-way delay: 87.395 ms

Loss rate: 2.31%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-16 19:16:06

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

Below is generated by plot.py at 2017-11-16 22:05:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.08 Mbit/s

95th percentile per-packet one-way delay: 87.404 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 3.88 Mbit/s

95th percentile per-packet one-way delay: 87.336 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 4.40 Mbit/s

95th percentile per-packet one-way delay: 87.512 ms

Loss rate: 1.14%

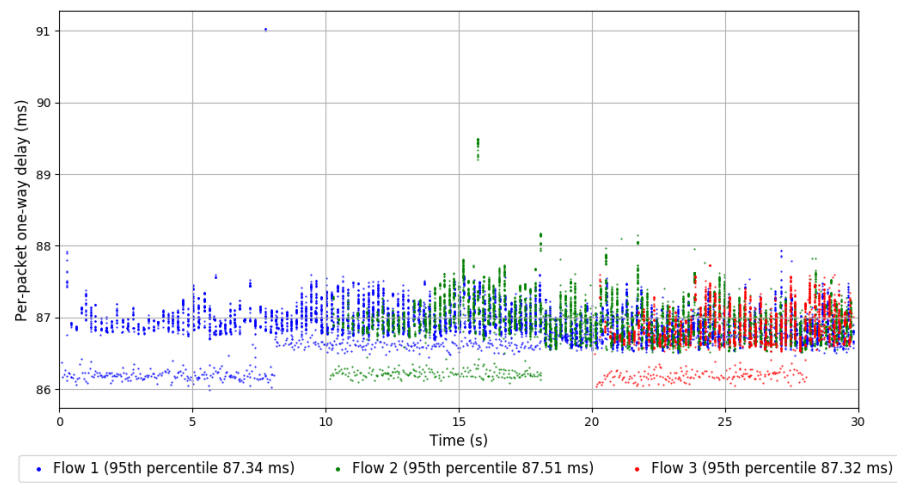
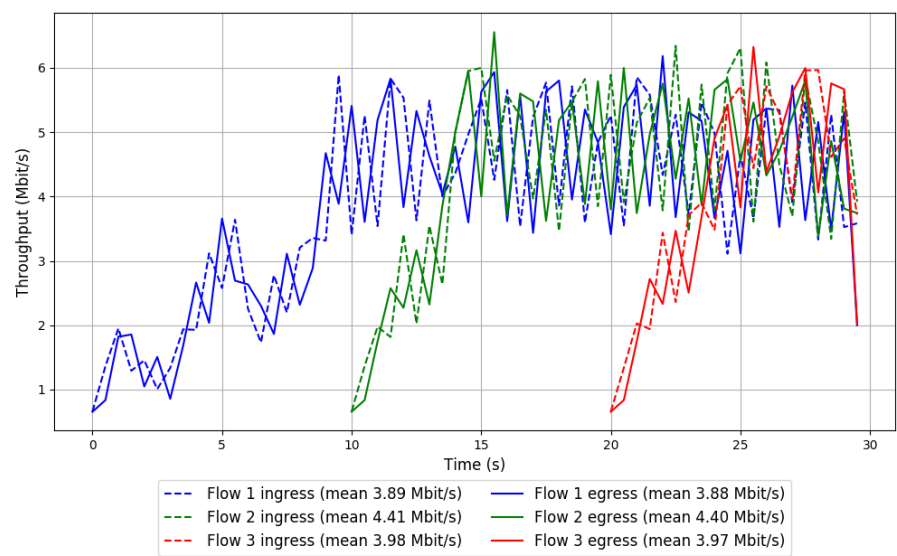
-- Flow 3:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 87.323 ms

Loss rate: 2.16%

Run 10: Report of Sprout — Data Link

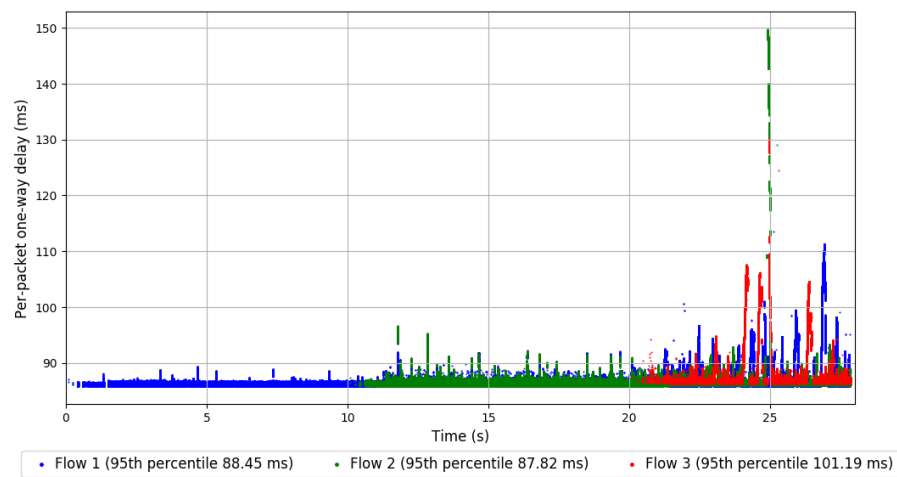
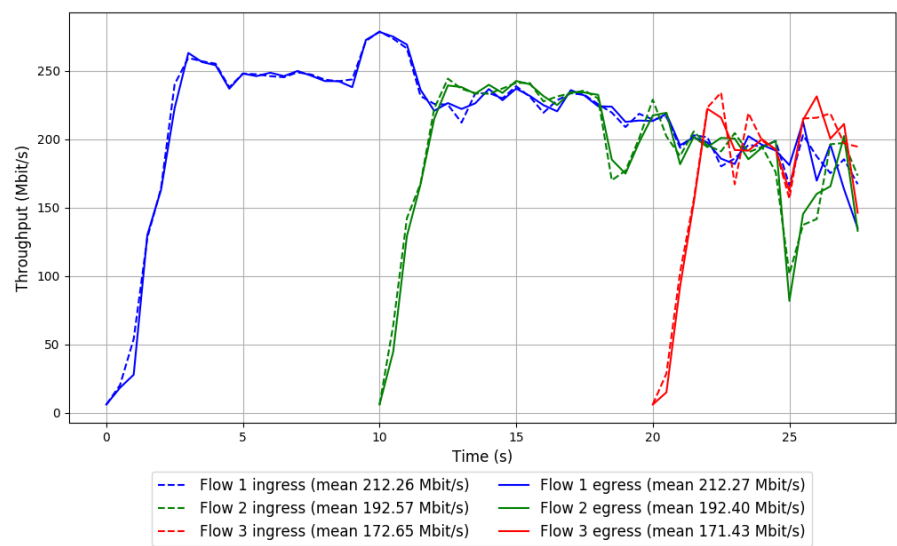


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-16 17:12:31
End at: 2017-11-16 17:13:01

# Below is generated by plot.py at 2017-11-16 22:08:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 383.02 Mbit/s
95th percentile per-packet one-way delay: 89.089 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 212.27 Mbit/s
95th percentile per-packet one-way delay: 88.453 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 192.40 Mbit/s
95th percentile per-packet one-way delay: 87.823 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 171.43 Mbit/s
95th percentile per-packet one-way delay: 101.185 ms
Loss rate: 2.90%
```


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

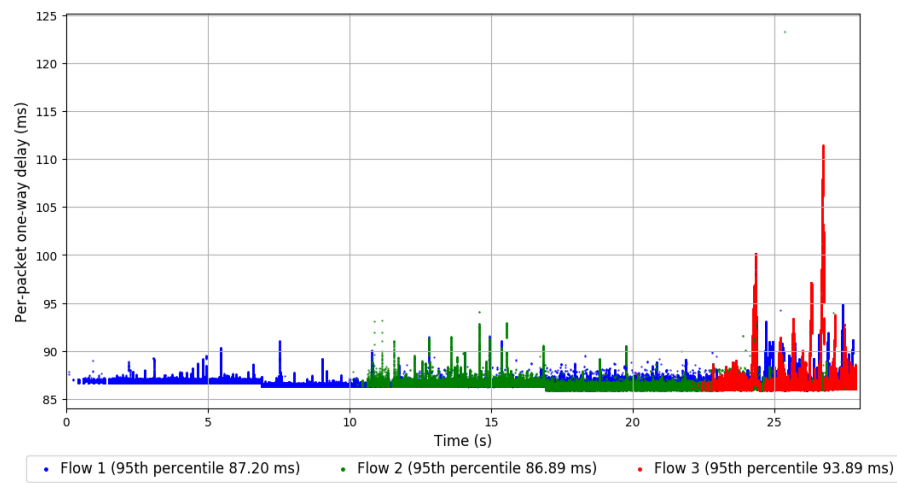
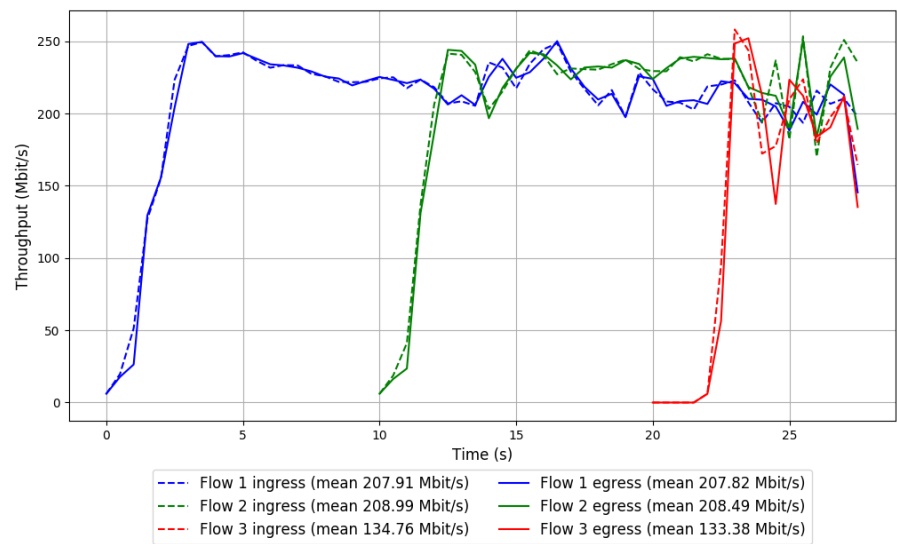


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-16 17:25:45
End at: 2017-11-16 17:26:15

# Below is generated by plot.py at 2017-11-16 22:08:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 378.36 Mbit/s
95th percentile per-packet one-way delay: 87.477 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 207.82 Mbit/s
95th percentile per-packet one-way delay: 87.200 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 208.49 Mbit/s
95th percentile per-packet one-way delay: 86.887 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 133.38 Mbit/s
95th percentile per-packet one-way delay: 93.889 ms
Loss rate: 3.17%
```

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

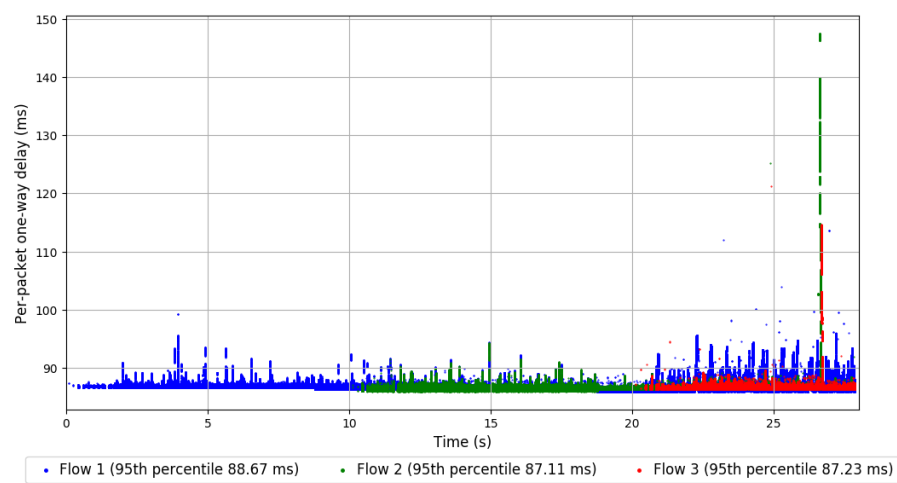
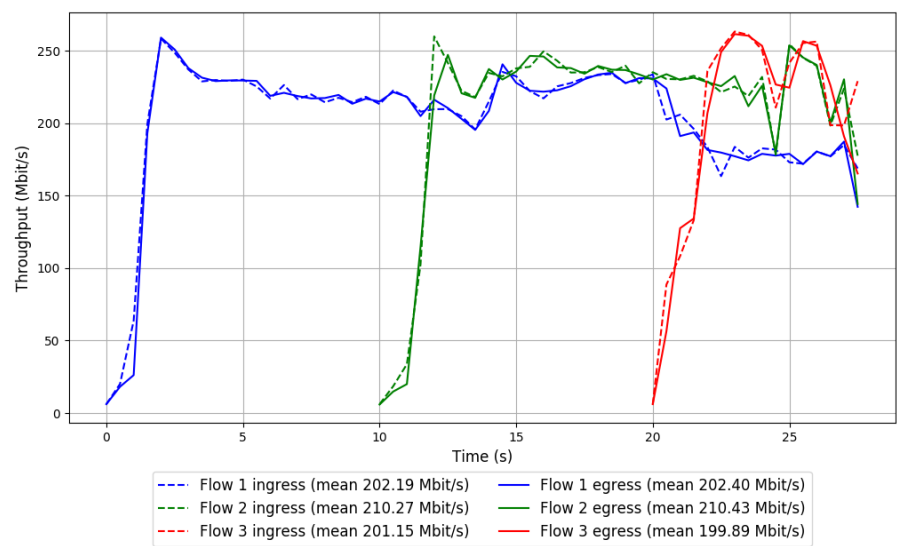


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-11-16 17:39:13
End at: 2017-11-16 17:39:43

# Below is generated by plot.py at 2017-11-16 22:09:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 392.44 Mbit/s
95th percentile per-packet one-way delay: 87.801 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 202.40 Mbit/s
95th percentile per-packet one-way delay: 88.668 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 210.43 Mbit/s
95th percentile per-packet one-way delay: 87.105 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 199.89 Mbit/s
95th percentile per-packet one-way delay: 87.227 ms
Loss rate: 2.81%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-11-16 17:52:34

End at: 2017-11-16 17:53:04

Below is generated by plot.py at 2017-11-16 22:09:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 368.92 Mbit/s

95th percentile per-packet one-way delay: 86.947 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 231.34 Mbit/s

95th percentile per-packet one-way delay: 86.940 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 213.92 Mbit/s

95th percentile per-packet one-way delay: 86.958 ms

Loss rate: 1.09%

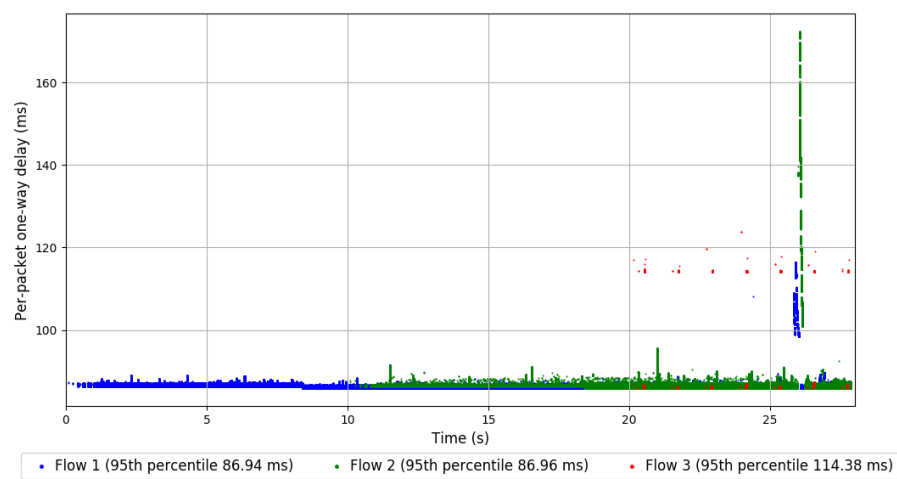
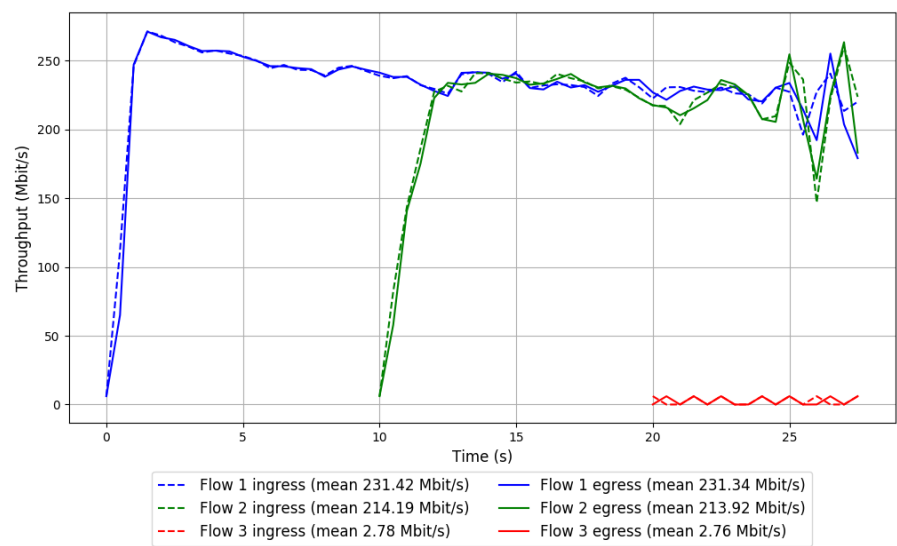
-- Flow 3:

Average throughput: 2.76 Mbit/s

95th percentile per-packet one-way delay: 114.375 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-11-16 18:05:47

End at: 2017-11-16 18:06:17

Below is generated by plot.py at 2017-11-16 22:09:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 203.85 Mbit/s

95th percentile per-packet one-way delay: 87.331 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 94.00 Mbit/s

95th percentile per-packet one-way delay: 114.165 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 175.12 Mbit/s

95th percentile per-packet one-way delay: 87.363 ms

Loss rate: 0.63%

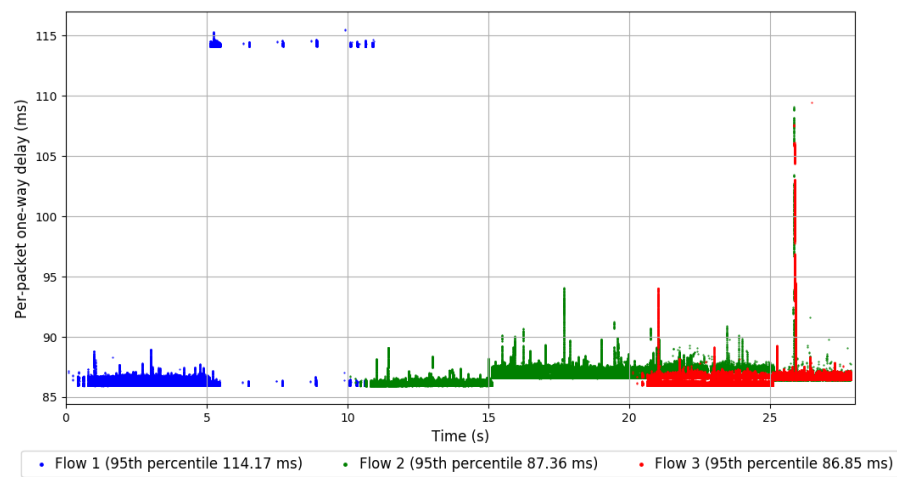
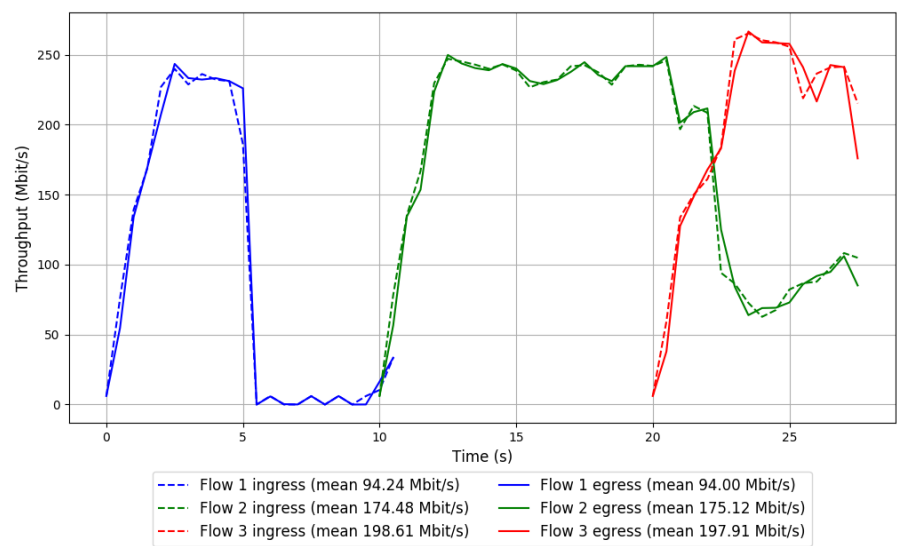
-- Flow 3:

Average throughput: 197.91 Mbit/s

95th percentile per-packet one-way delay: 86.848 ms

Loss rate: 2.54%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-16 18:18:47

End at: 2017-11-16 18:19:17

Below is generated by plot.py at 2017-11-16 22:10:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 393.66 Mbit/s

95th percentile per-packet one-way delay: 87.570 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 207.29 Mbit/s

95th percentile per-packet one-way delay: 87.919 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 208.45 Mbit/s

95th percentile per-packet one-way delay: 87.131 ms

Loss rate: 0.64%

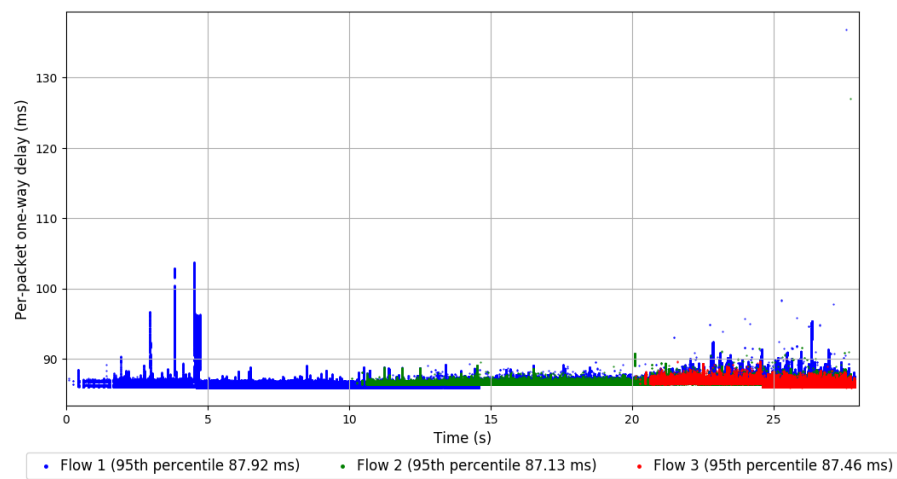
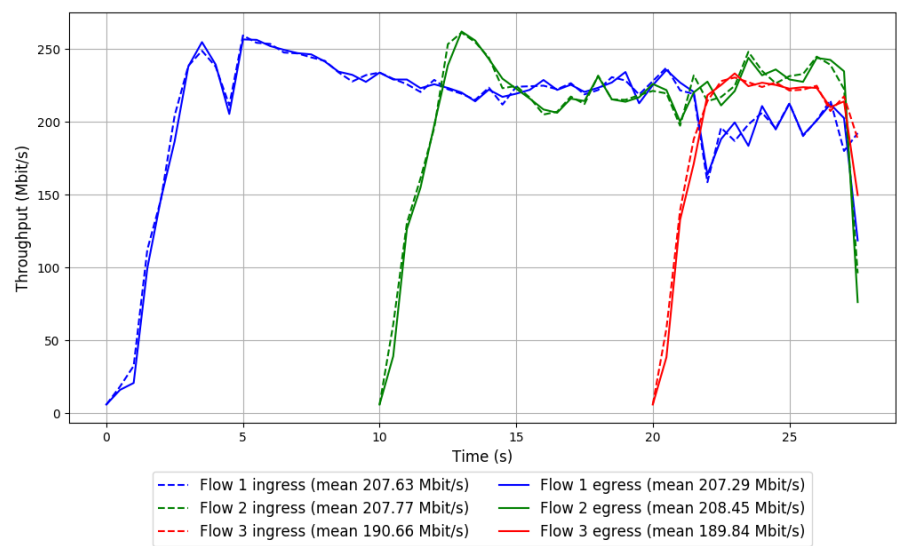
-- Flow 3:

Average throughput: 189.84 Mbit/s

95th percentile per-packet one-way delay: 87.458 ms

Loss rate: 2.59%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-11-16 18:32:08

End at: 2017-11-16 18:32:38

Below is generated by plot.py at 2017-11-16 22:14:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 350.63 Mbit/s

95th percentile per-packet one-way delay: 87.527 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 225.65 Mbit/s

95th percentile per-packet one-way delay: 87.687 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 138.64 Mbit/s

95th percentile per-packet one-way delay: 87.280 ms

Loss rate: 0.00%

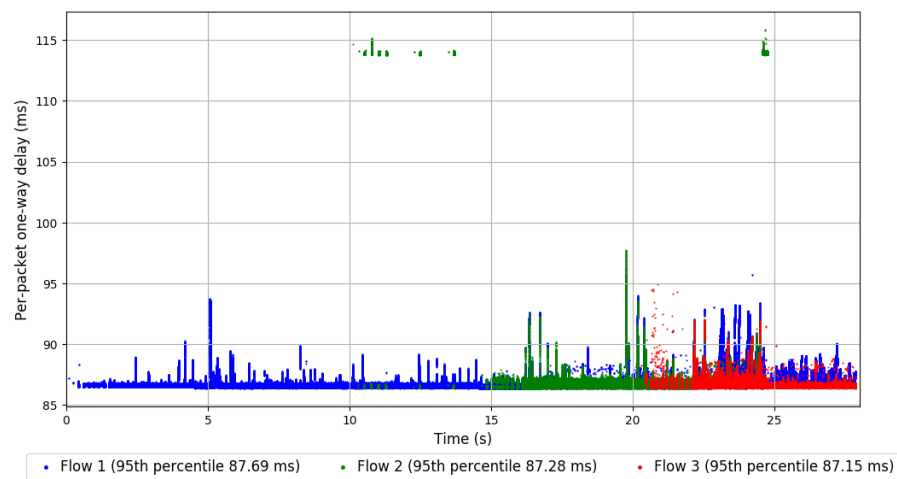
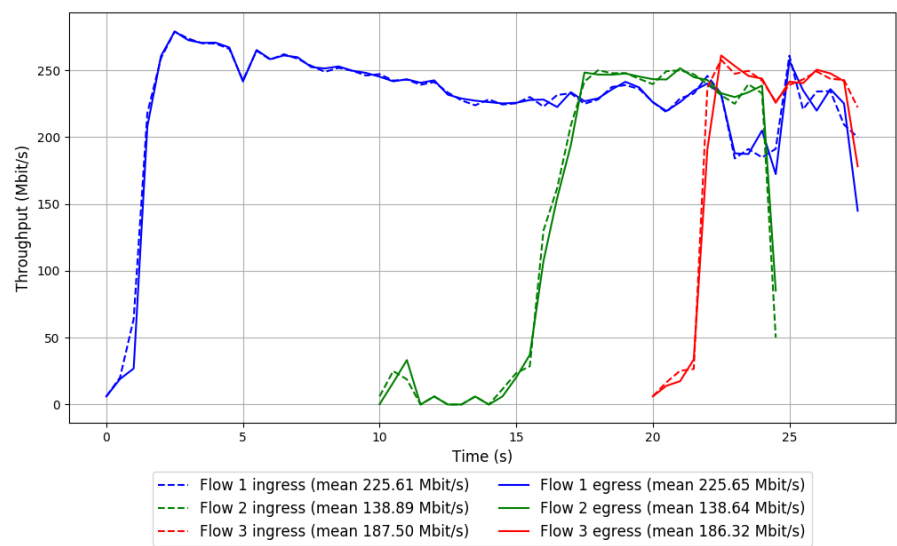
-- Flow 3:

Average throughput: 186.32 Mbit/s

95th percentile per-packet one-way delay: 87.153 ms

Loss rate: 2.80%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-16 18:45:35

End at: 2017-11-16 18:46:05

Below is generated by plot.py at 2017-11-16 22:14:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 307.41 Mbit/s

95th percentile per-packet one-way delay: 87.285 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 120.45 Mbit/s

95th percentile per-packet one-way delay: 87.550 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 214.94 Mbit/s

95th percentile per-packet one-way delay: 86.754 ms

Loss rate: 0.97%

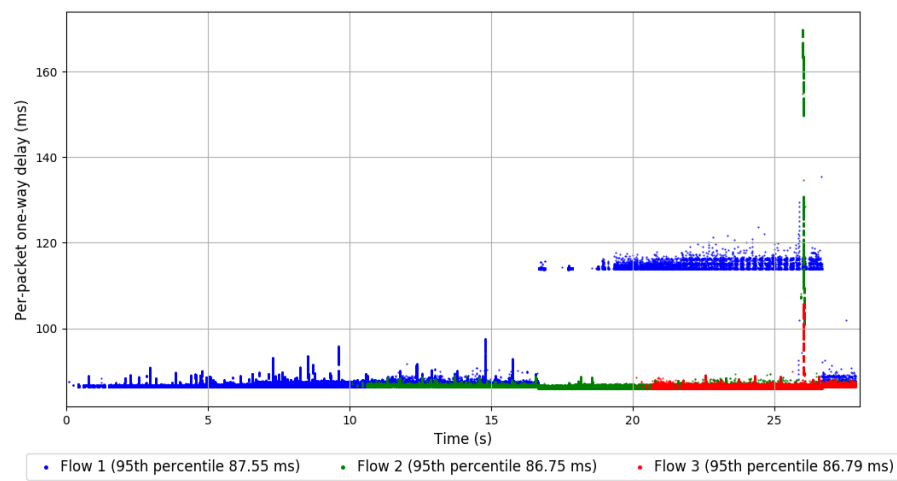
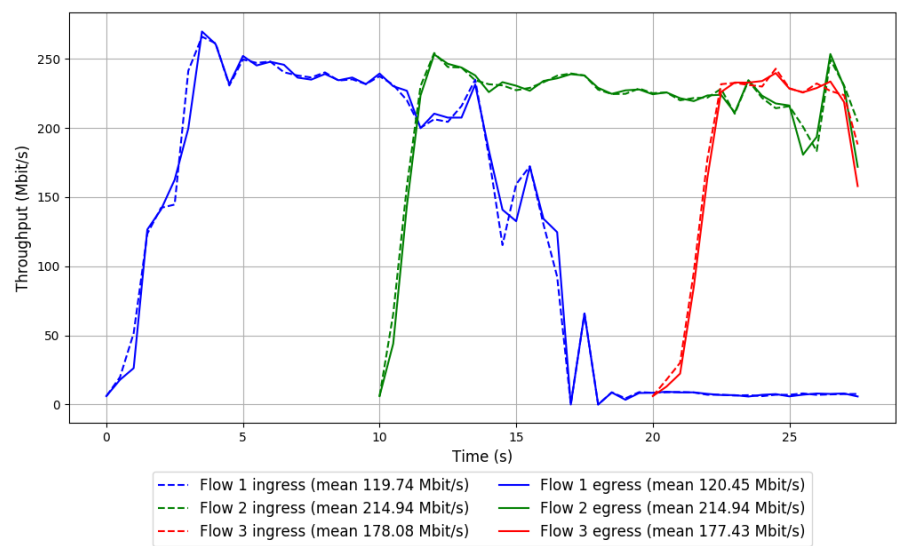
-- Flow 3:

Average throughput: 177.43 Mbit/s

95th percentile per-packet one-way delay: 86.788 ms

Loss rate: 2.55%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-11-16 18:58:45

End at: 2017-11-16 18:59:15

Below is generated by plot.py at 2017-11-16 22:17:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 401.63 Mbit/s

95th percentile per-packet one-way delay: 89.407 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 215.64 Mbit/s

95th percentile per-packet one-way delay: 87.851 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 202.78 Mbit/s

95th percentile per-packet one-way delay: 88.843 ms

Loss rate: 1.21%

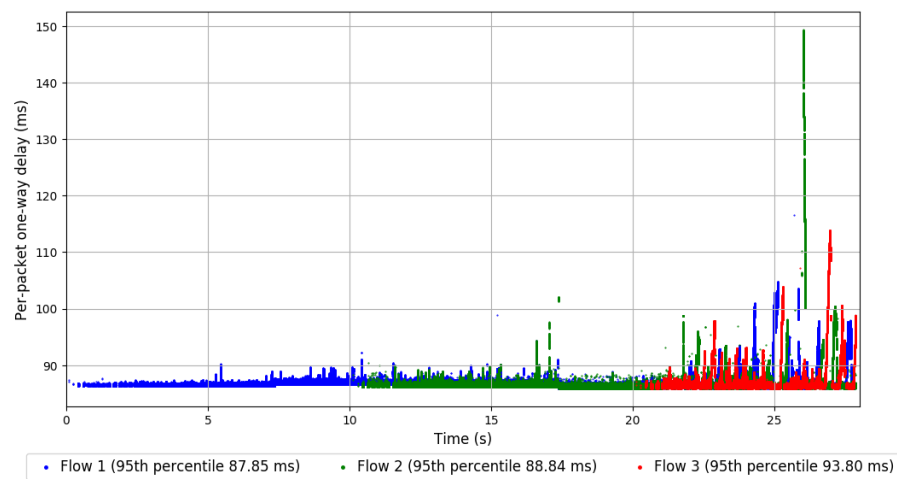
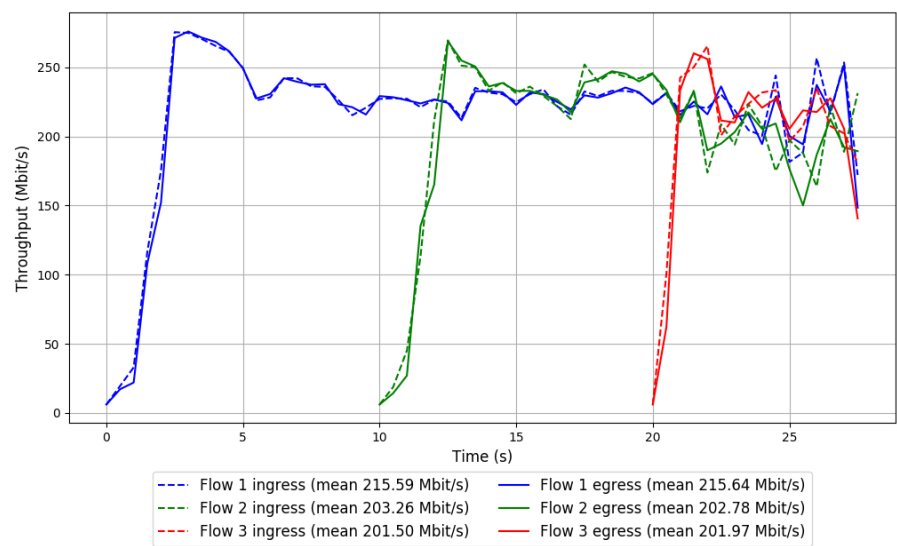
-- Flow 3:

Average throughput: 201.97 Mbit/s

95th percentile per-packet one-way delay: 93.801 ms

Loss rate: 1.96%

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

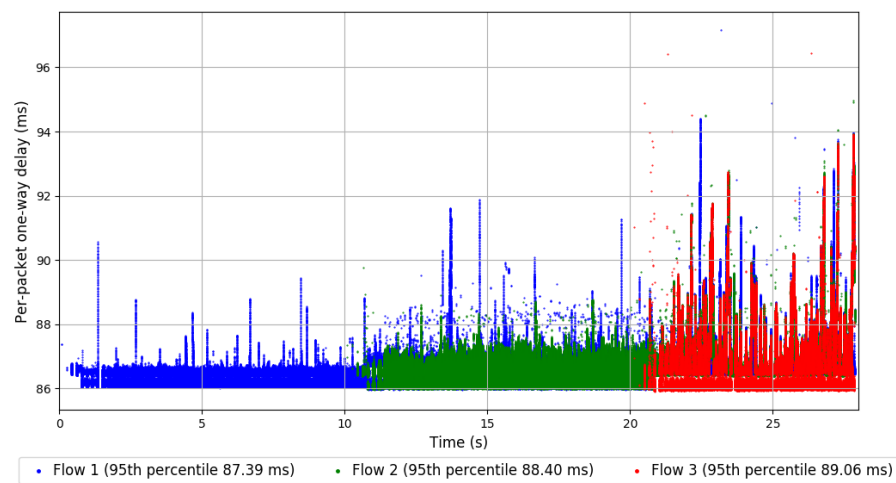
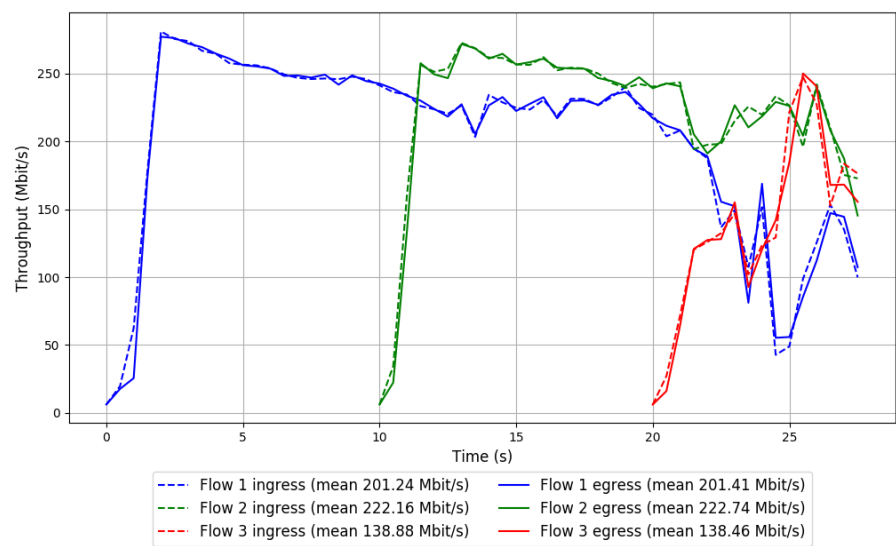


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-11-16 19:12:01
End at: 2017-11-16 19:12:31

# Below is generated by plot.py at 2017-11-16 22:20:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 382.41 Mbit/s
95th percentile per-packet one-way delay: 88.089 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 201.41 Mbit/s
95th percentile per-packet one-way delay: 87.385 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 222.74 Mbit/s
95th percentile per-packet one-way delay: 88.397 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 138.46 Mbit/s
95th percentile per-packet one-way delay: 89.063 ms
Loss rate: 2.48%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-11-16 17:10:49

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

Below is generated by plot.py at 2017-11-16 22:20:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.54 Mbit/s

95th percentile per-packet one-way delay: 87.386 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 22.76 Mbit/s

95th percentile per-packet one-way delay: 87.045 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 52.65 Mbit/s

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

Loss rate: 0.96%

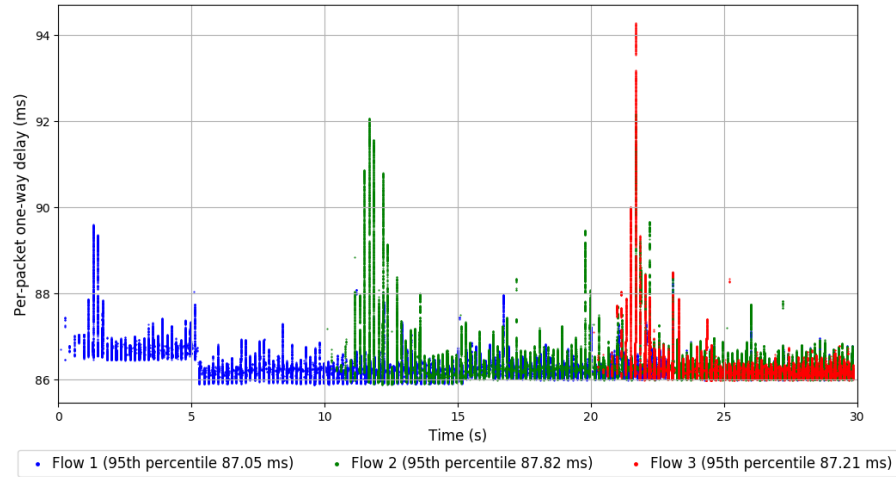
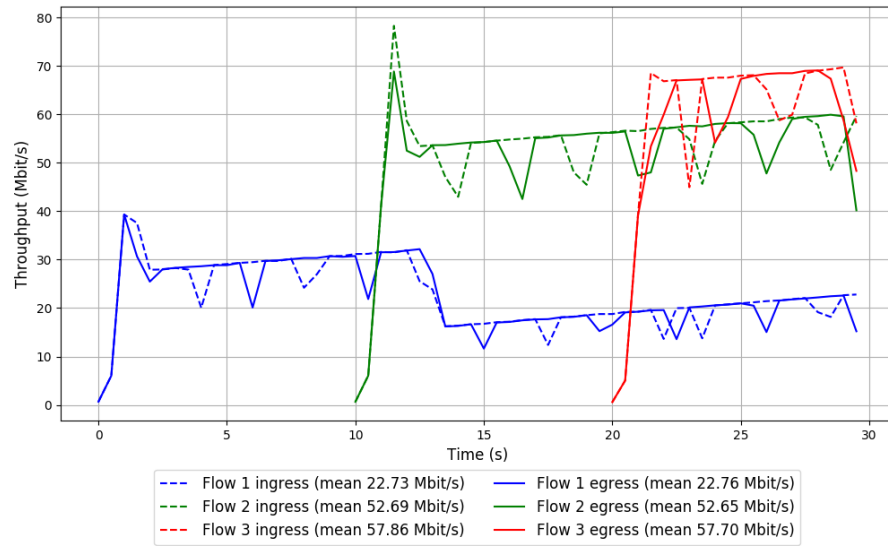
-- Flow 3:

Average throughput: 57.70 Mbit/s

95th percentile per-packet one-way delay: 87.207 ms

Loss rate: 2.02%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-16 17:24:05

End at: 2017-11-16 17:24:35

Below is generated by plot.py at 2017-11-16 22:20:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.12 Mbit/s

95th percentile per-packet one-way delay: 89.994 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 37.63 Mbit/s

95th percentile per-packet one-way delay: 88.151 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 40.15 Mbit/s

95th percentile per-packet one-way delay: 90.577 ms

Loss rate: 0.94%

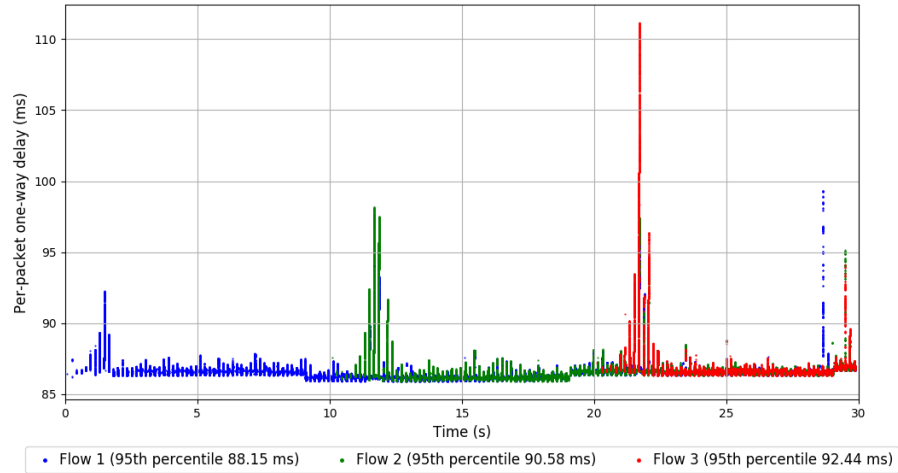
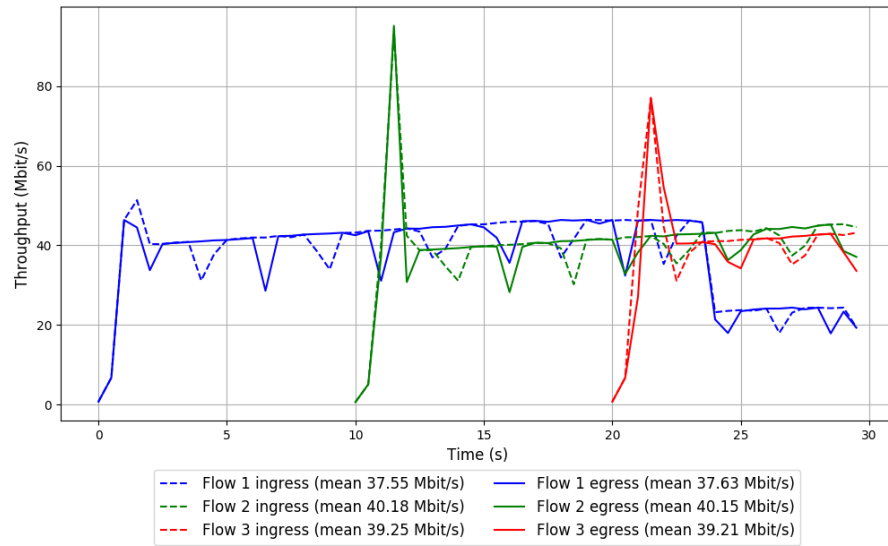
-- Flow 3:

Average throughput: 39.21 Mbit/s

95th percentile per-packet one-way delay: 92.442 ms

Loss rate: 1.85%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-11-16 17:37:30

End at: 2017-11-16 17:38:00

Below is generated by plot.py at 2017-11-16 22:20:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.43 Mbit/s

95th percentile per-packet one-way delay: 88.036 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 50.69 Mbit/s

95th percentile per-packet one-way delay: 87.581 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 44.69 Mbit/s

95th percentile per-packet one-way delay: 87.847 ms

Loss rate: 0.95%

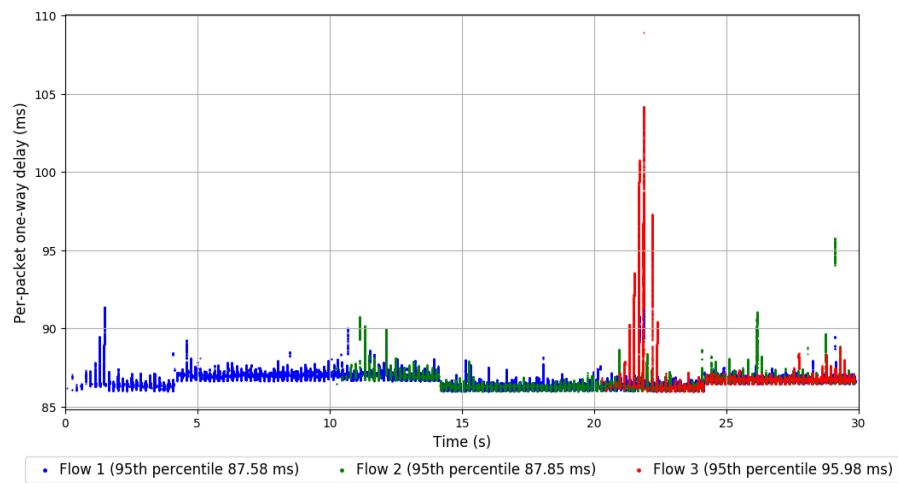
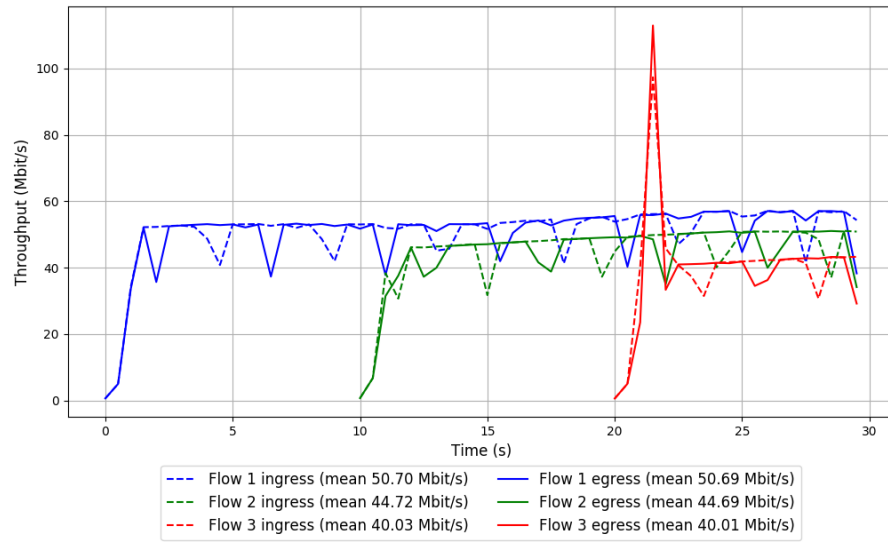
-- Flow 3:

Average throughput: 40.01 Mbit/s

95th percentile per-packet one-way delay: 95.984 ms

Loss rate: 1.82%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-16 17:50:50

End at: 2017-11-16 17:51:20

Below is generated by plot.py at 2017-11-16 22:20:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 132.83 Mbit/s

95th percentile per-packet one-way delay: 93.904 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 48.88 Mbit/s

95th percentile per-packet one-way delay: 92.652 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 73.10 Mbit/s

95th percentile per-packet one-way delay: 93.688 ms

Loss rate: 0.92%

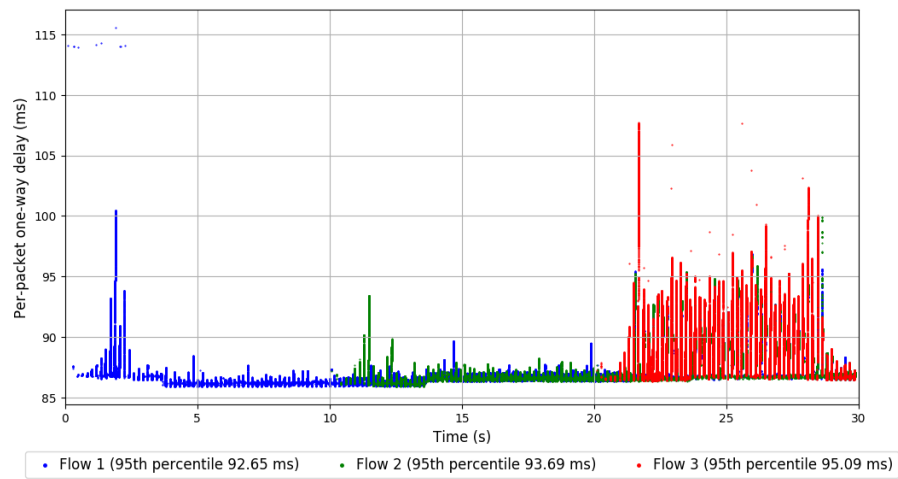
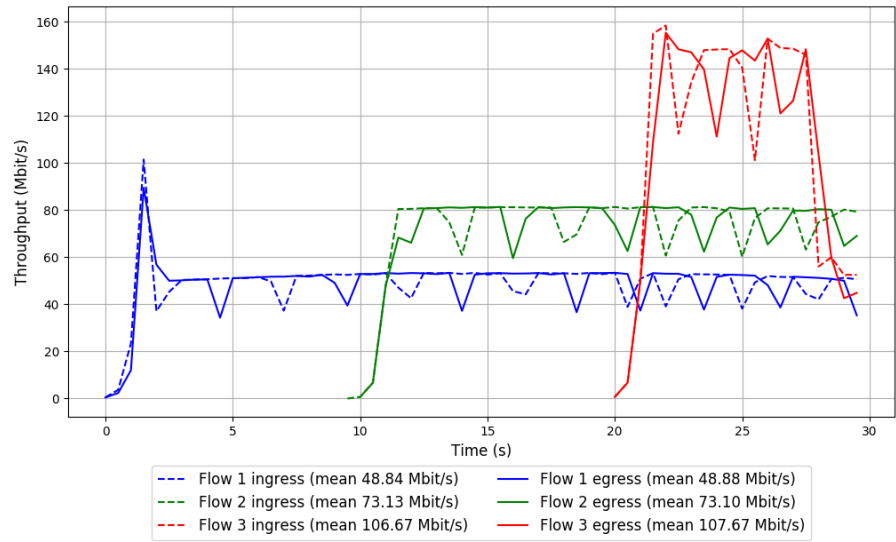
-- Flow 3:

Average throughput: 107.67 Mbit/s

95th percentile per-packet one-way delay: 95.087 ms

Loss rate: 0.83%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-11-16 18:04:02

End at: 2017-11-16 18:04:32

Below is generated by plot.py at 2017-11-16 22:20:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 147.84 Mbit/s

95th percentile per-packet one-way delay: 92.298 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 69.70 Mbit/s

95th percentile per-packet one-way delay: 92.956 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 96.69 Mbit/s

95th percentile per-packet one-way delay: 88.015 ms

Loss rate: 0.97%

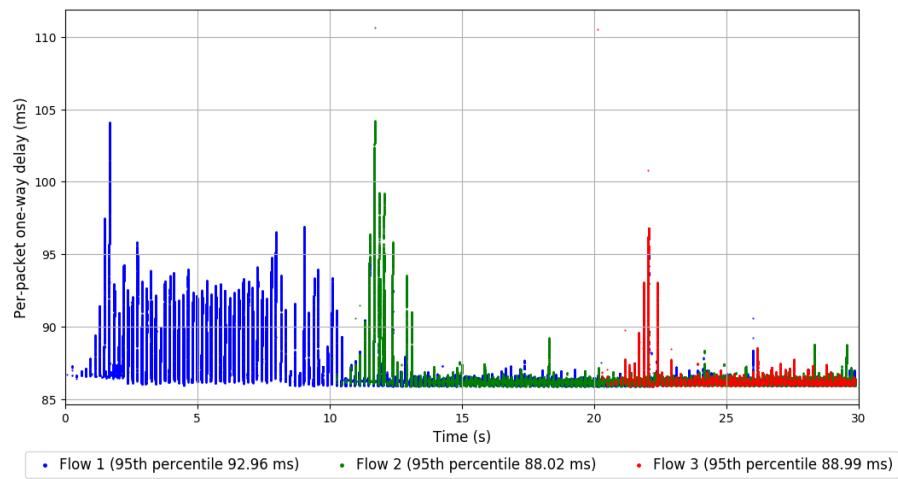
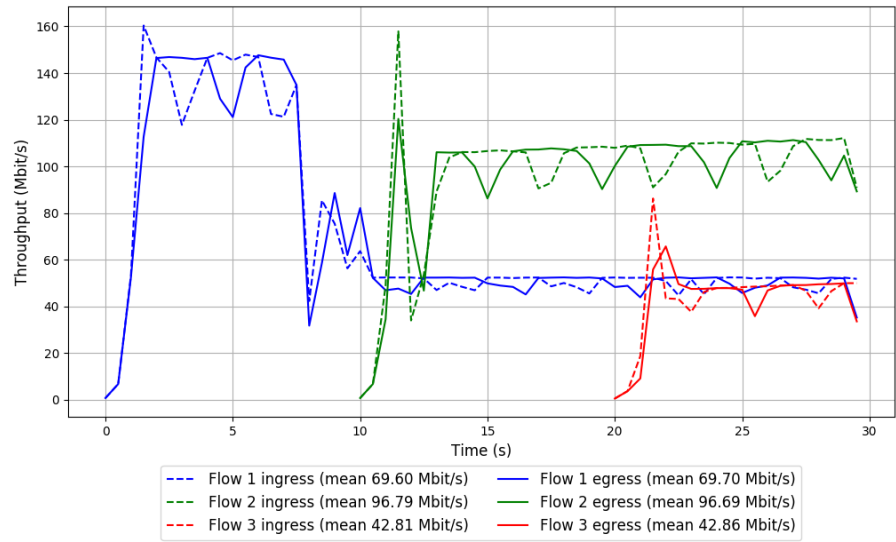
-- Flow 3:

Average throughput: 42.86 Mbit/s

95th percentile per-packet one-way delay: 88.986 ms

Loss rate: 1.97%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-16 18:17:06

End at: 2017-11-16 18:17:36

Below is generated by plot.py at 2017-11-16 22:20:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 113.37 Mbit/s

95th percentile per-packet one-way delay: 87.576 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 40.22 Mbit/s

95th percentile per-packet one-way delay: 87.801 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 86.34 Mbit/s

95th percentile per-packet one-way delay: 87.546 ms

Loss rate: 0.95%

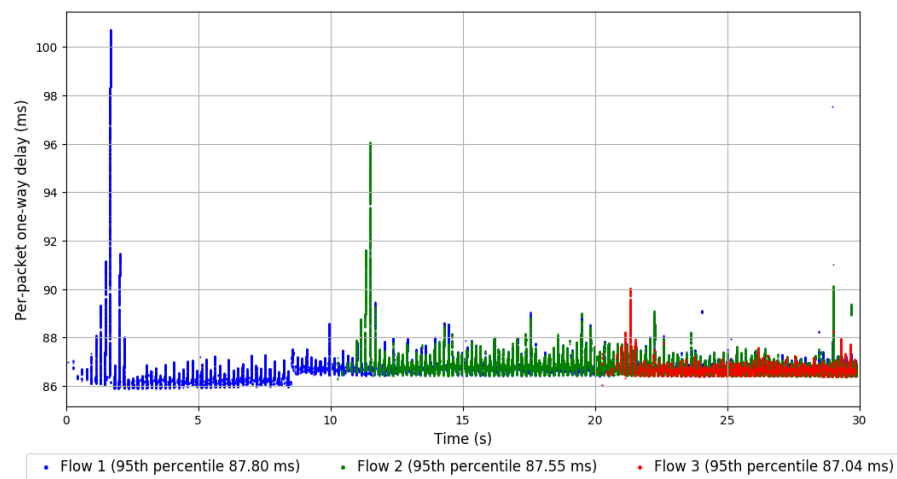
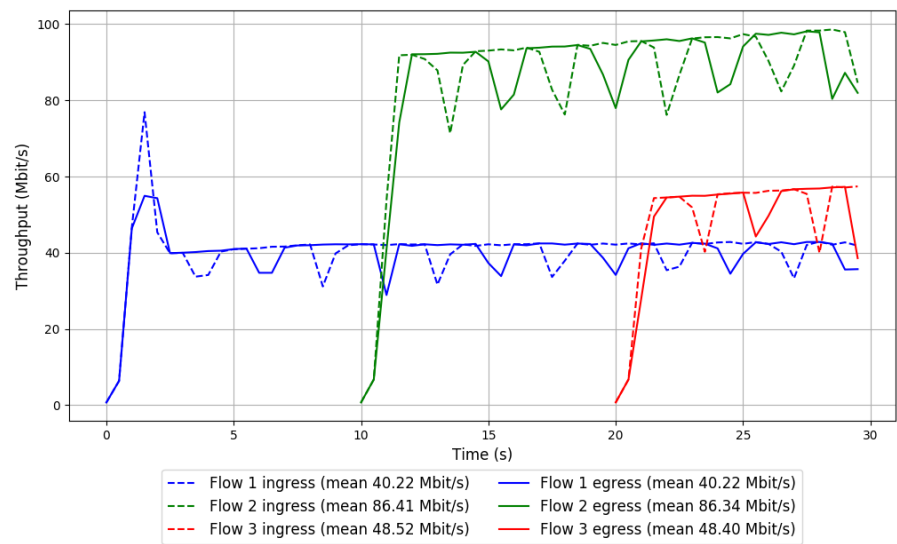
-- Flow 3:

Average throughput: 48.40 Mbit/s

95th percentile per-packet one-way delay: 87.042 ms

Loss rate: 2.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-11-16 18:30:25

End at: 2017-11-16 18:30:55

Below is generated by plot.py at 2017-11-16 22:20:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 104.51 Mbit/s

95th percentile per-packet one-way delay: 91.837 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 54.49 Mbit/s

95th percentile per-packet one-way delay: 90.587 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 74.36 Mbit/s

95th percentile per-packet one-way delay: 92.730 ms

Loss rate: 0.53%

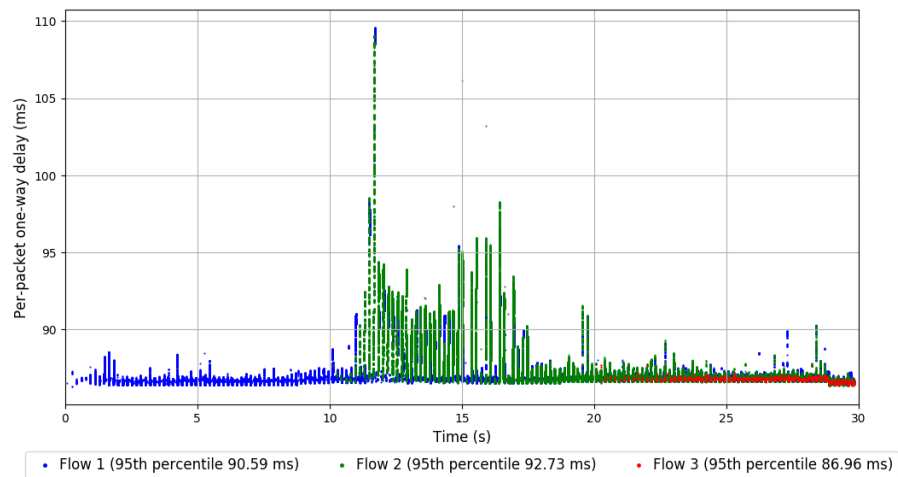
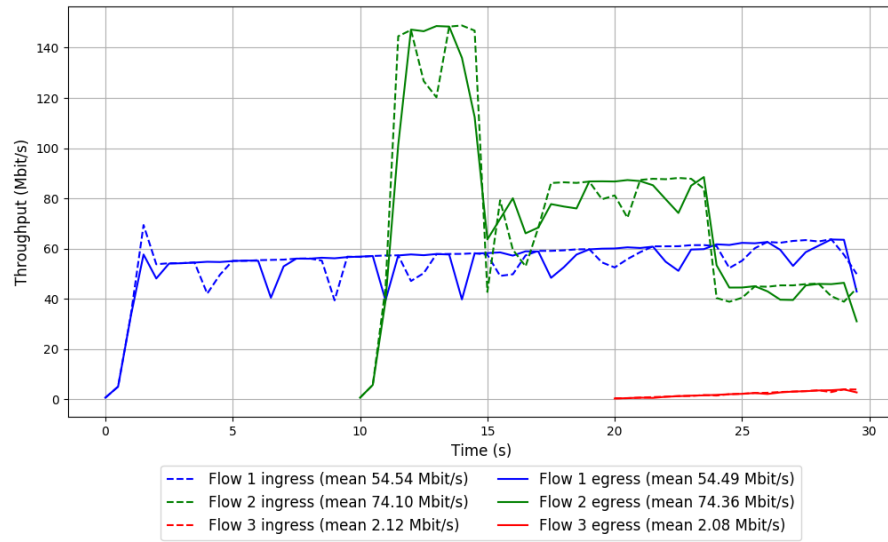
-- Flow 3:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 86.962 ms

Loss rate: 3.60%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-11-16 18:43:47

End at: 2017-11-16 18:44:17

Below is generated by plot.py at 2017-11-16 22:20:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 172.60 Mbit/s

95th percentile per-packet one-way delay: 93.753 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 118.36 Mbit/s

95th percentile per-packet one-way delay: 94.078 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 58.68 Mbit/s

95th percentile per-packet one-way delay: 93.632 ms

Loss rate: 0.81%

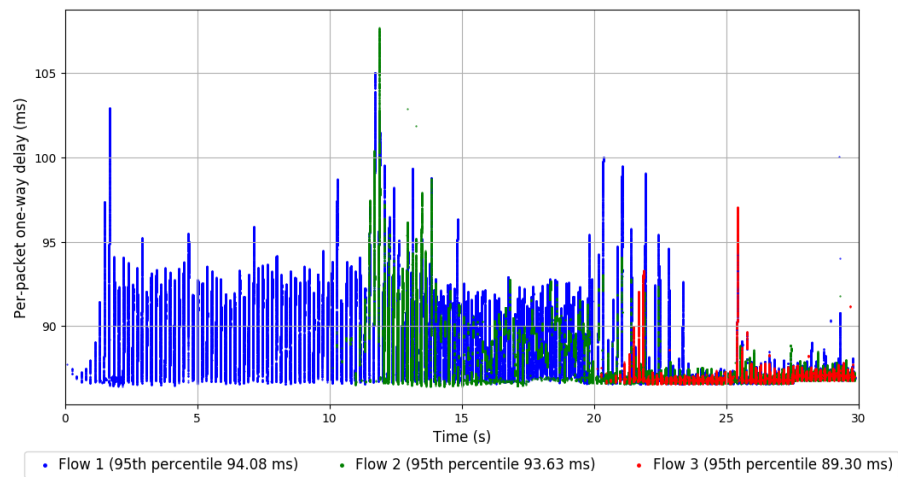
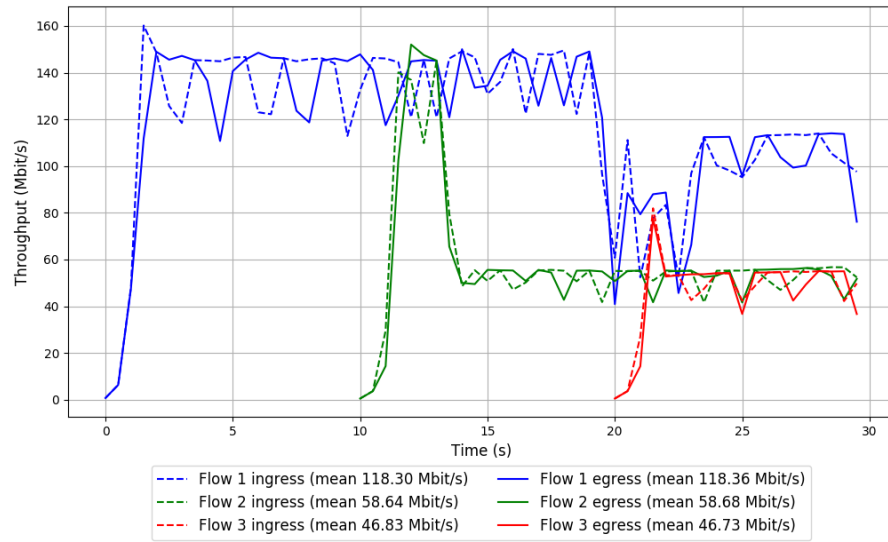
-- Flow 3:

Average throughput: 46.73 Mbit/s

95th percentile per-packet one-way delay: 89.298 ms

Loss rate: 1.97%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-11-16 18:57:00

End at: 2017-11-16 18:57:30

Below is generated by plot.py at 2017-11-16 22:20:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 111.87 Mbit/s

95th percentile per-packet one-way delay: 88.447 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 48.55 Mbit/s

95th percentile per-packet one-way delay: 87.222 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 55.90 Mbit/s

95th percentile per-packet one-way delay: 89.156 ms

Loss rate: 0.94%

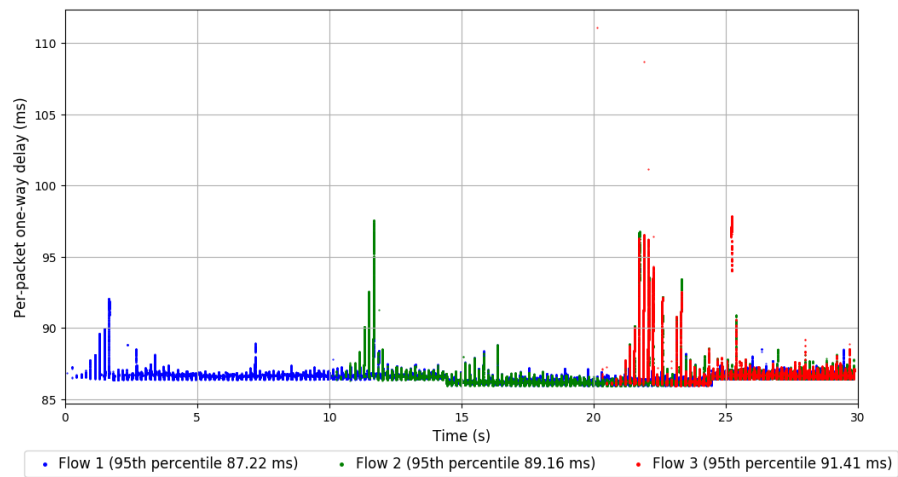
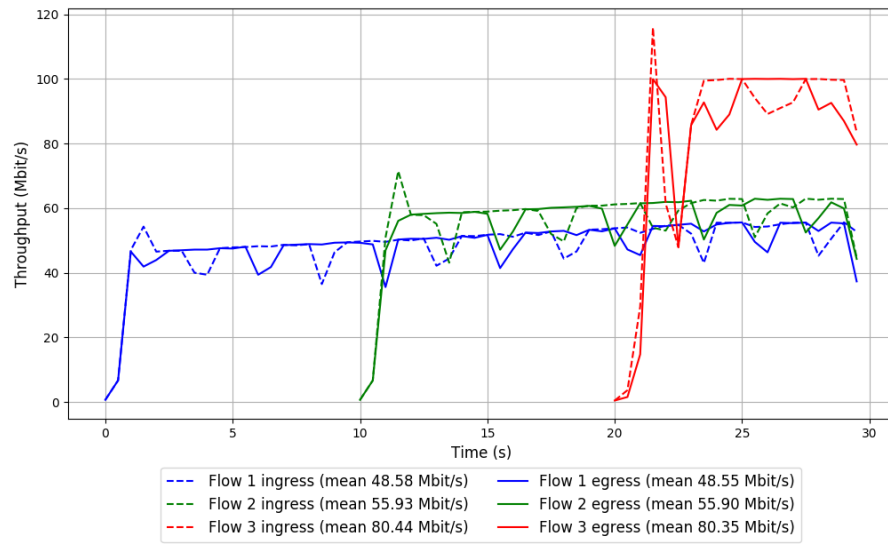
-- Flow 3:

Average throughput: 80.35 Mbit/s

95th percentile per-packet one-way delay: 91.408 ms

Loss rate: 2.09%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-16 19:10:20

End at: 2017-11-16 19:10:50

Below is generated by plot.py at 2017-11-16 22:20:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 107.16 Mbit/s

95th percentile per-packet one-way delay: 87.853 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 33.25 Mbit/s

95th percentile per-packet one-way delay: 87.506 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 87.832 ms

Loss rate: 0.92%

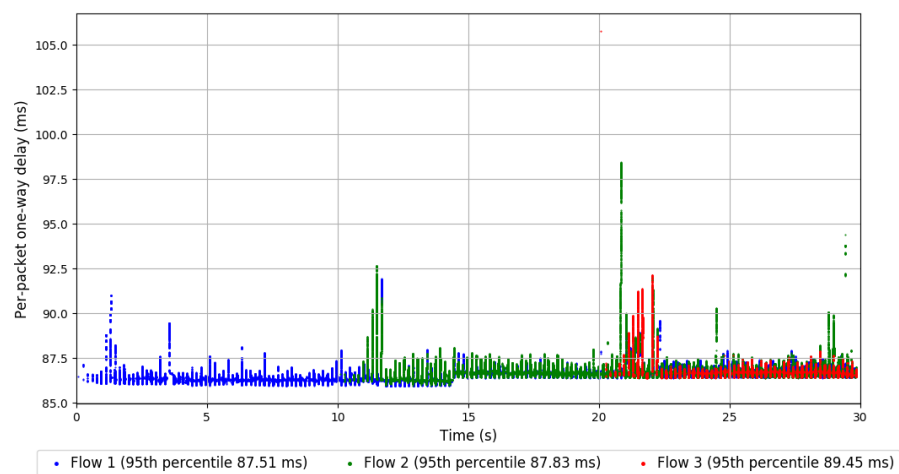
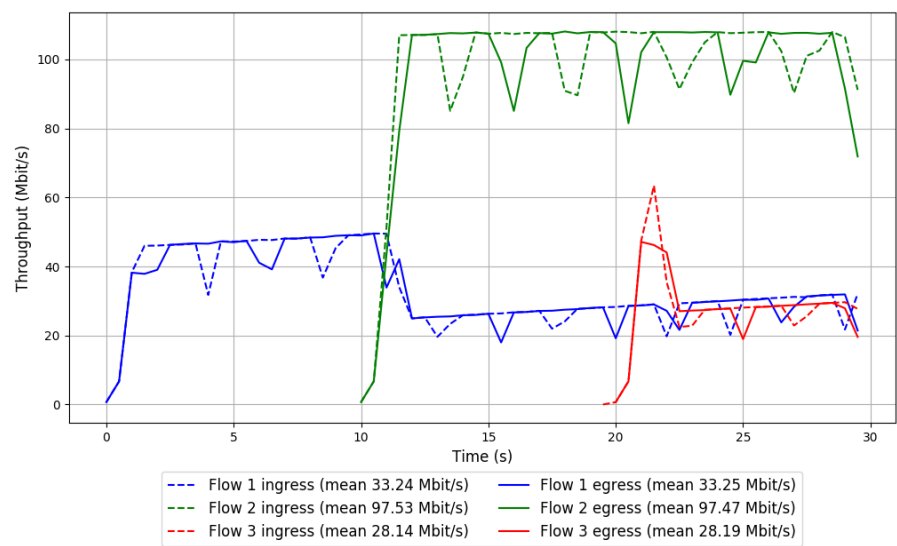
-- Flow 3:

Average throughput: 28.19 Mbit/s

95th percentile per-packet one-way delay: 89.447 ms

Loss rate: 1.79%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-11-16 17:08:10

End at: 2017-11-16 17:08:40

Below is generated by plot.py at 2017-11-16 22:20:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 341.10 Mbit/s

95th percentile per-packet one-way delay: 255.116 ms

Loss rate: 4.05%

-- Flow 1:

Average throughput: 275.99 Mbit/s

95th percentile per-packet one-way delay: 204.257 ms

Loss rate: 1.68%

-- Flow 2:

Average throughput: 84.51 Mbit/s

95th percentile per-packet one-way delay: 296.706 ms

Loss rate: 14.08%

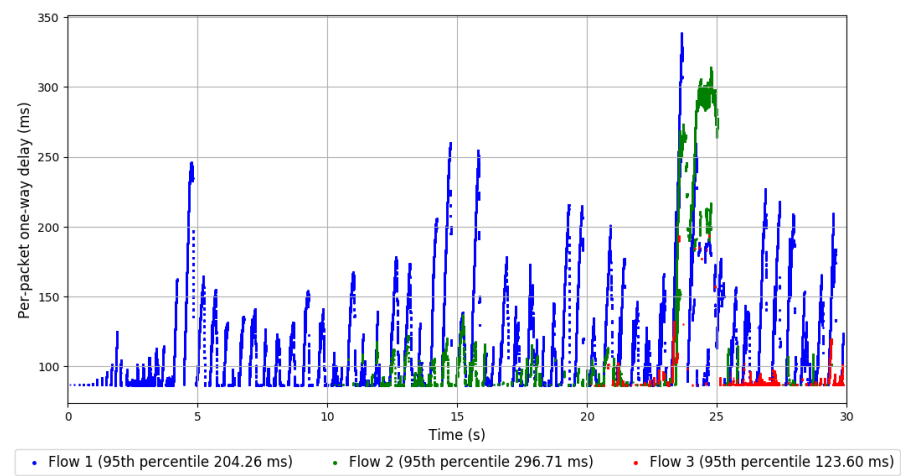
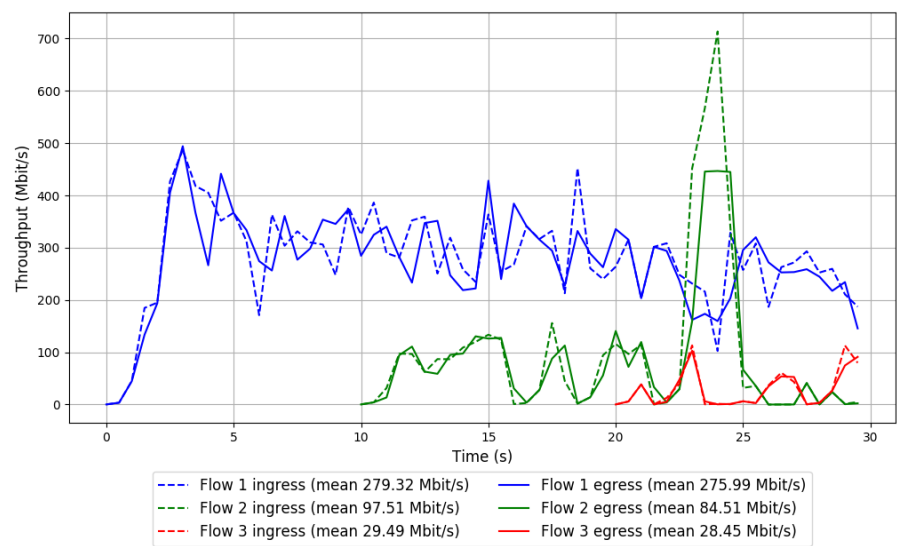
-- Flow 3:

Average throughput: 28.45 Mbit/s

95th percentile per-packet one-way delay: 123.602 ms

Loss rate: 5.39%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-16 17:21:24

End at: 2017-11-16 17:21:54

Below is generated by plot.py at 2017-11-16 22:20:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 376.89 Mbit/s

95th percentile per-packet one-way delay: 184.735 ms

Loss rate: 1.89%

-- Flow 1:

Average throughput: 227.33 Mbit/s

95th percentile per-packet one-way delay: 168.565 ms

Loss rate: 1.63%

-- Flow 2:

Average throughput: 205.04 Mbit/s

95th percentile per-packet one-way delay: 219.786 ms

Loss rate: 2.15%

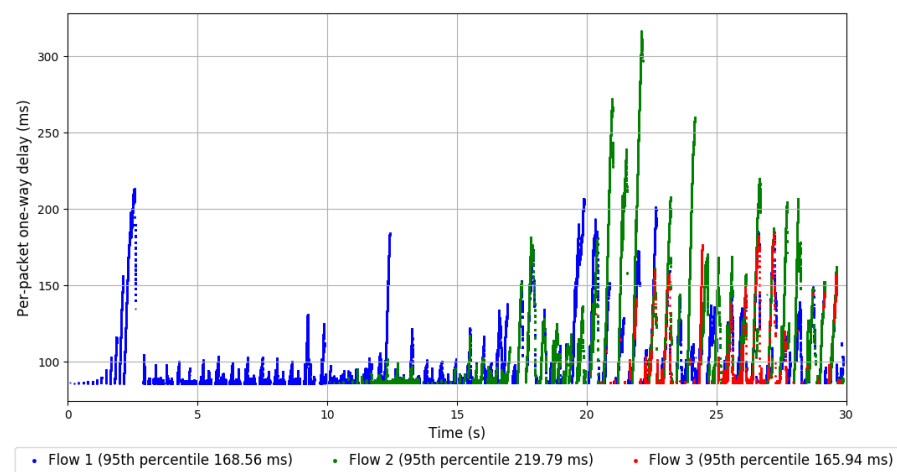
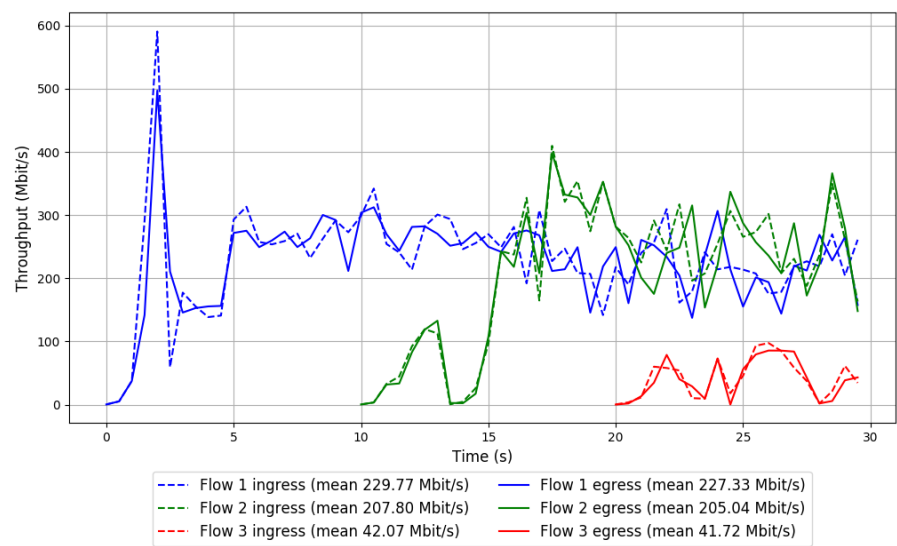
-- Flow 3:

Average throughput: 41.72 Mbit/s

95th percentile per-packet one-way delay: 165.938 ms

Loss rate: 3.74%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-16 17:34:50

End at: 2017-11-16 17:35:20

Below is generated by plot.py at 2017-11-16 22:20:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 358.28 Mbit/s

95th percentile per-packet one-way delay: 190.003 ms

Loss rate: 1.98%

-- Flow 1:

Average throughput: 222.96 Mbit/s

95th percentile per-packet one-way delay: 161.943 ms

Loss rate: 1.22%

-- Flow 2:

Average throughput: 184.00 Mbit/s

95th percentile per-packet one-way delay: 229.901 ms

Loss rate: 3.35%

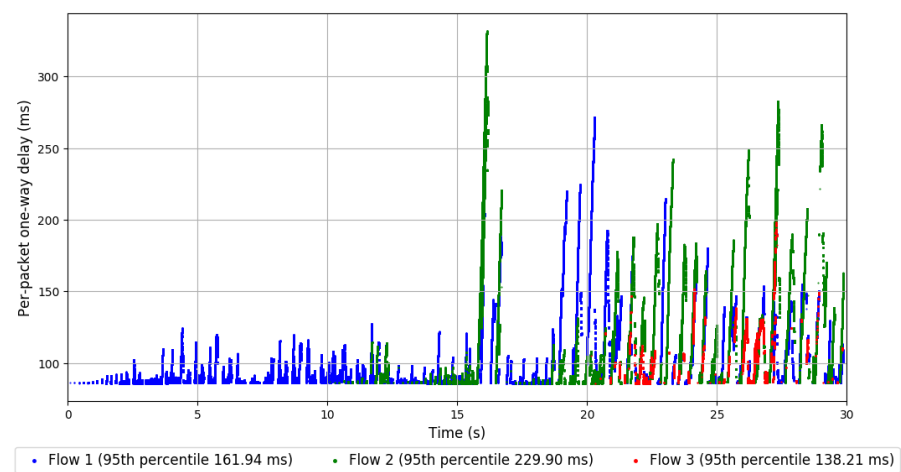
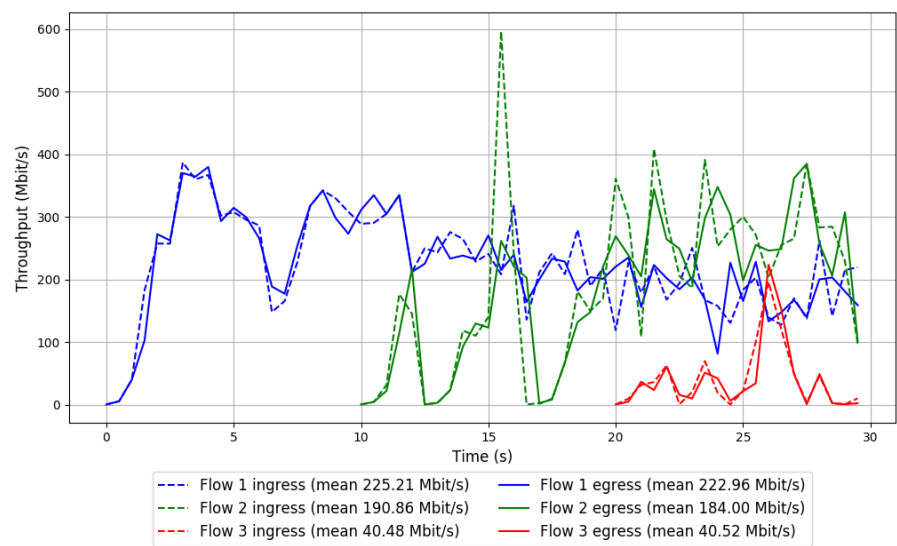
-- Flow 3:

Average throughput: 40.52 Mbit/s

95th percentile per-packet one-way delay: 138.214 ms

Loss rate: 1.85%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-16 17:48:14

End at: 2017-11-16 17:48:44

Below is generated by plot.py at 2017-11-16 22:20:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 317.29 Mbit/s

95th percentile per-packet one-way delay: 159.782 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 190.39 Mbit/s

95th percentile per-packet one-way delay: 152.405 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 102.30 Mbit/s

95th percentile per-packet one-way delay: 127.006 ms

Loss rate: 2.47%

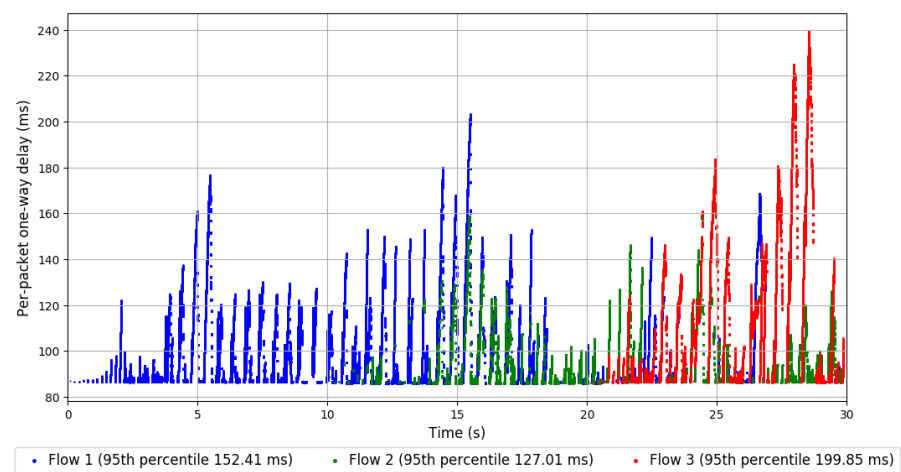
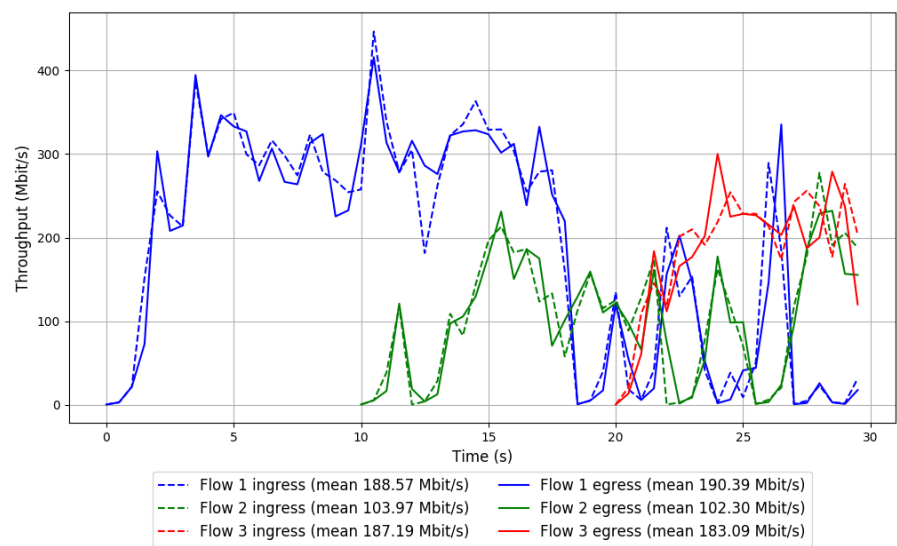
-- Flow 3:

Average throughput: 183.09 Mbit/s

95th percentile per-packet one-way delay: 199.846 ms

Loss rate: 3.26%

Run 4: Report of Verus — Data Link

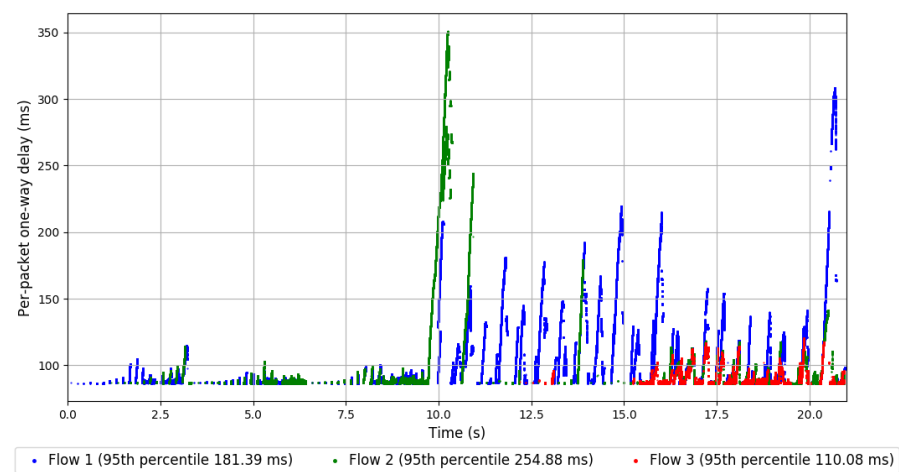
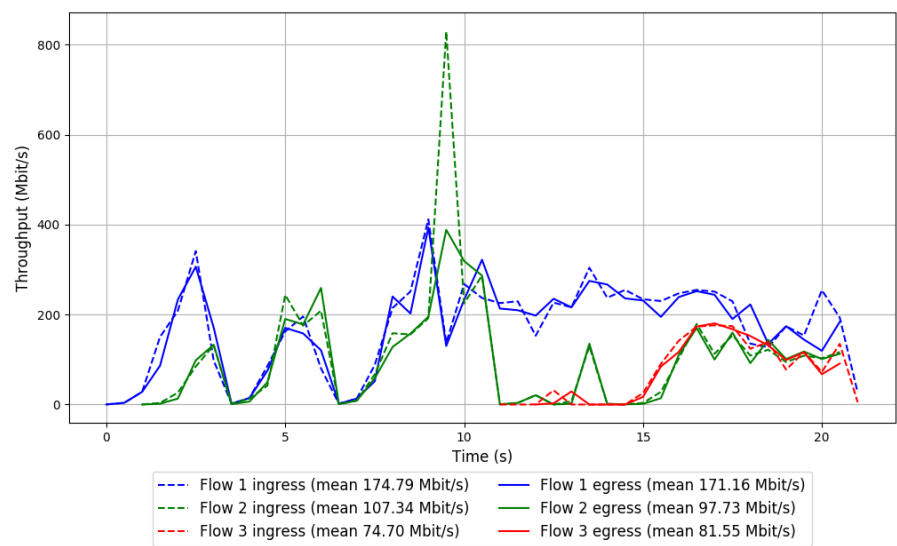


Run 5: Statistics of Verus

Start at: 2017-11-16 18:01:34

End at: 2017-11-16 18:02:04

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-11-16 18:14:30

End at: 2017-11-16 18:15:00

Below is generated by plot.py at 2017-11-16 22:20:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.36 Mbit/s

95th percentile per-packet one-way delay: 159.322 ms

Loss rate: 2.00%

-- Flow 1:

Average throughput: 183.42 Mbit/s

95th percentile per-packet one-way delay: 108.705 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 100.13 Mbit/s

95th percentile per-packet one-way delay: 181.197 ms

Loss rate: 2.27%

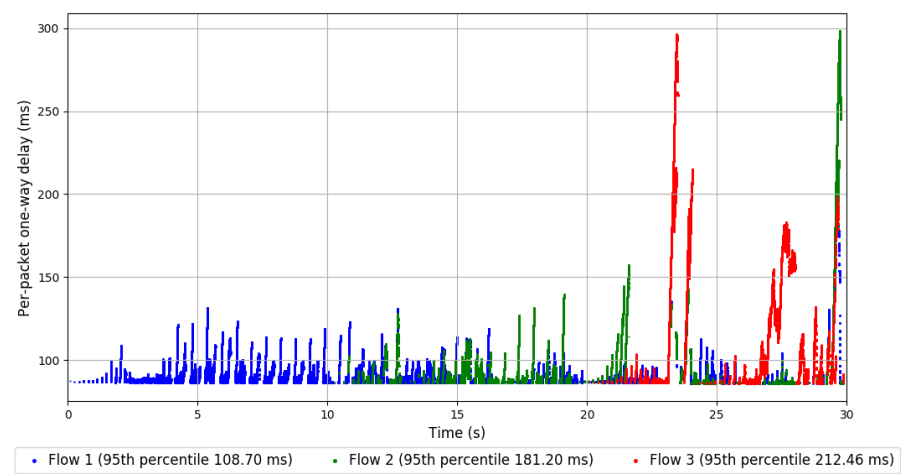
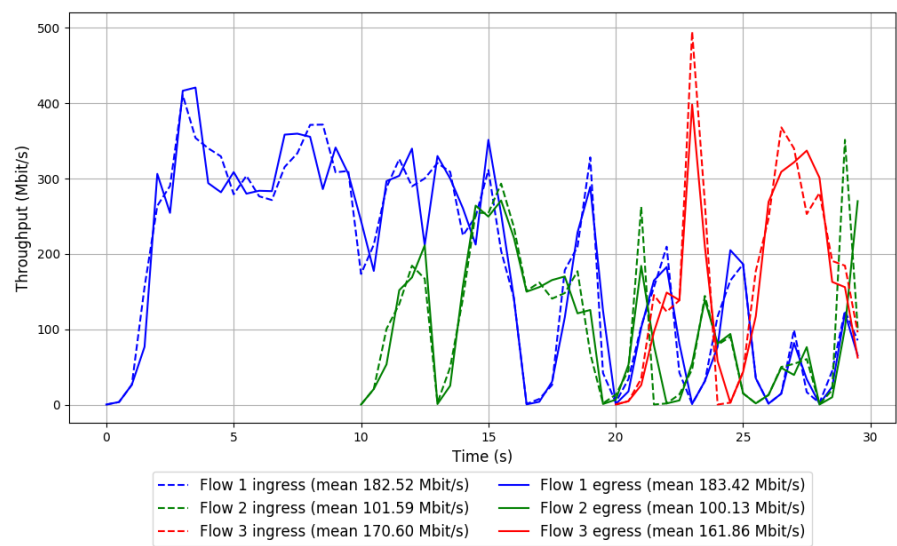
-- Flow 3:

Average throughput: 161.86 Mbit/s

95th percentile per-packet one-way delay: 212.463 ms

Loss rate: 6.77%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-16 18:27:53

End at: 2017-11-16 18:28:23

Below is generated by plot.py at 2017-11-16 22:22:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 248.00 Mbit/s

95th percentile per-packet one-way delay: 110.263 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 107.34 Mbit/s

95th percentile per-packet one-way delay: 105.232 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 184.79 Mbit/s

95th percentile per-packet one-way delay: 110.915 ms

Loss rate: 1.07%

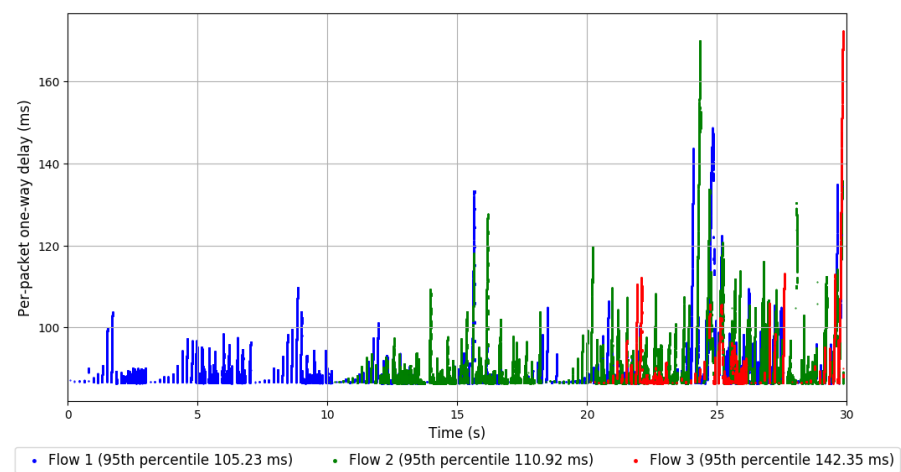
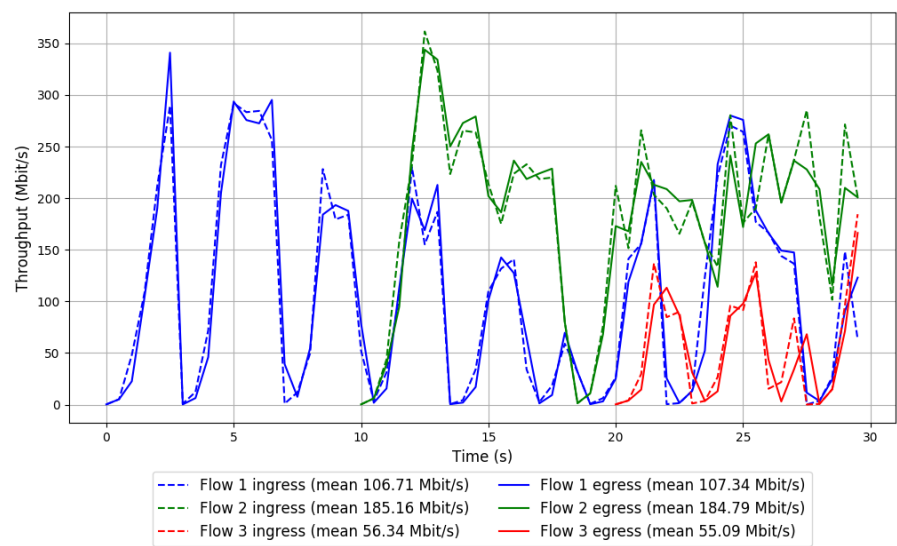
-- Flow 3:

Average throughput: 55.09 Mbit/s

95th percentile per-packet one-way delay: 142.353 ms

Loss rate: 3.87%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-11-16 18:41:08

End at: 2017-11-16 18:41:38

Below is generated by plot.py at 2017-11-16 22:24:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 342.68 Mbit/s

95th percentile per-packet one-way delay: 262.514 ms

Loss rate: 5.36%

-- Flow 1:

Average throughput: 247.17 Mbit/s

95th percentile per-packet one-way delay: 283.226 ms

Loss rate: 6.98%

-- Flow 2:

Average throughput: 126.40 Mbit/s

95th percentile per-packet one-way delay: 206.209 ms

Loss rate: 0.85%

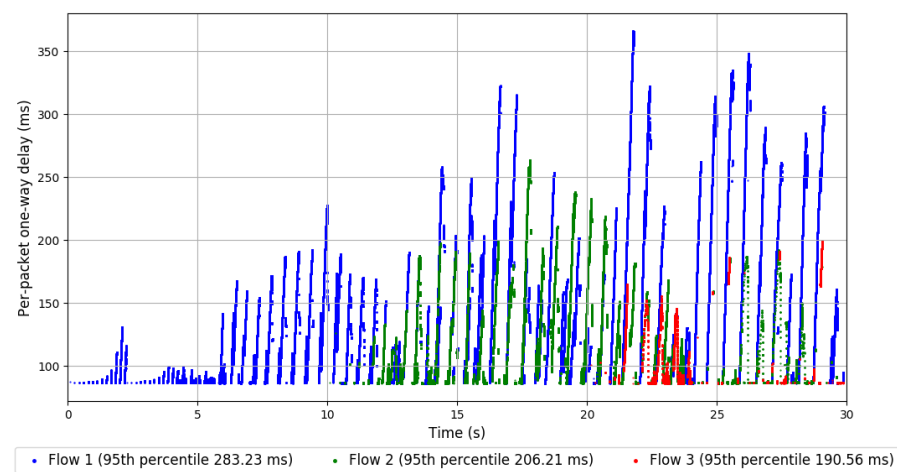
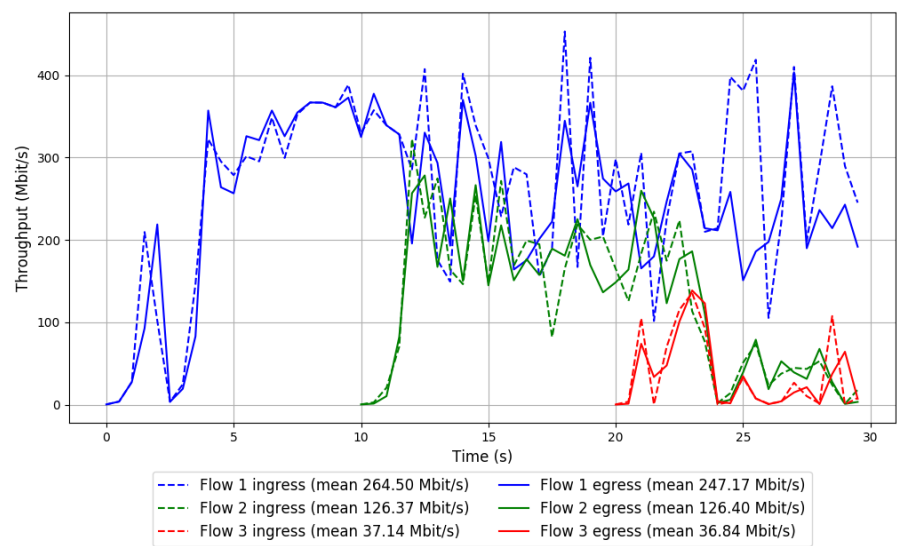
-- Flow 3:

Average throughput: 36.84 Mbit/s

95th percentile per-packet one-way delay: 190.564 ms

Loss rate: 1.23%

Run 8: Report of Verus — Data Link

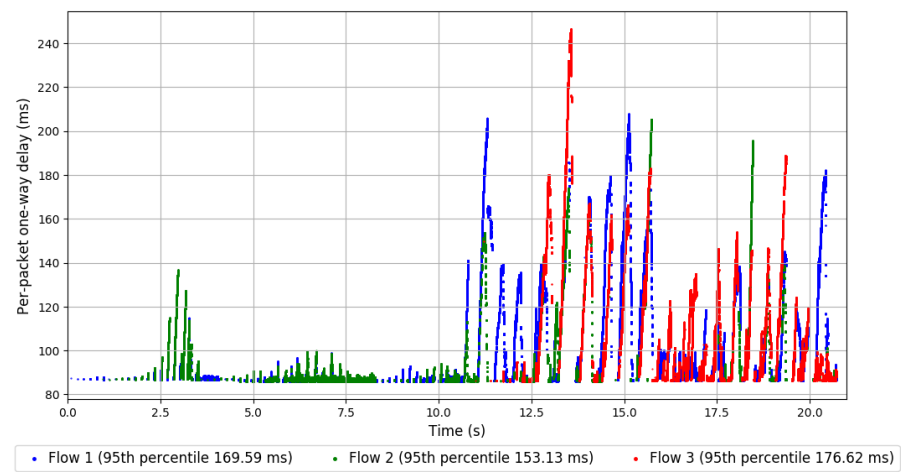
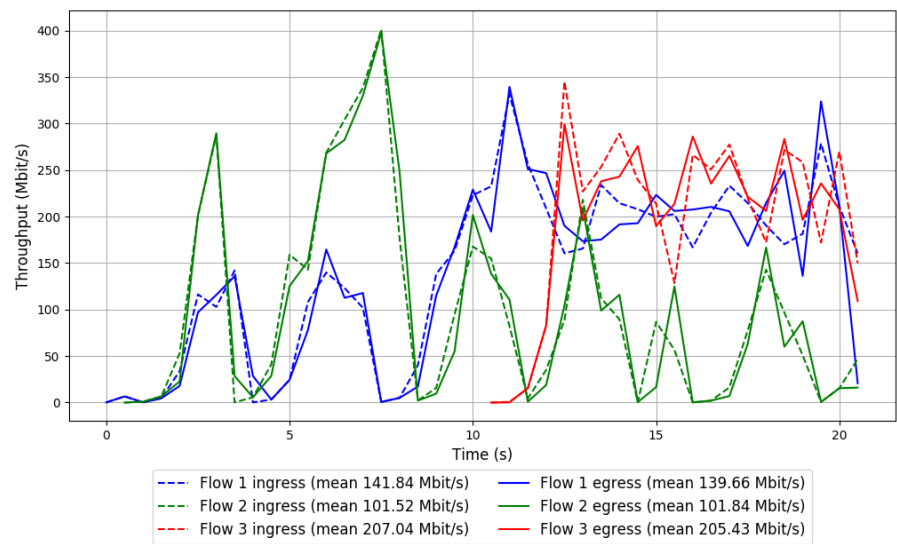


Run 9: Statistics of Verus

Start at: 2017-11-16 18:54:30

End at: 2017-11-16 18:55:00

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-16 19:07:43

End at: 2017-11-16 19:08:13

Below is generated by plot.py at 2017-11-16 22:25:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.24 Mbit/s

95th percentile per-packet one-way delay: 235.970 ms

Loss rate: 4.54%

-- Flow 1:

Average throughput: 146.24 Mbit/s

95th percentile per-packet one-way delay: 125.063 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 218.14 Mbit/s

95th percentile per-packet one-way delay: 237.155 ms

Loss rate: 6.11%

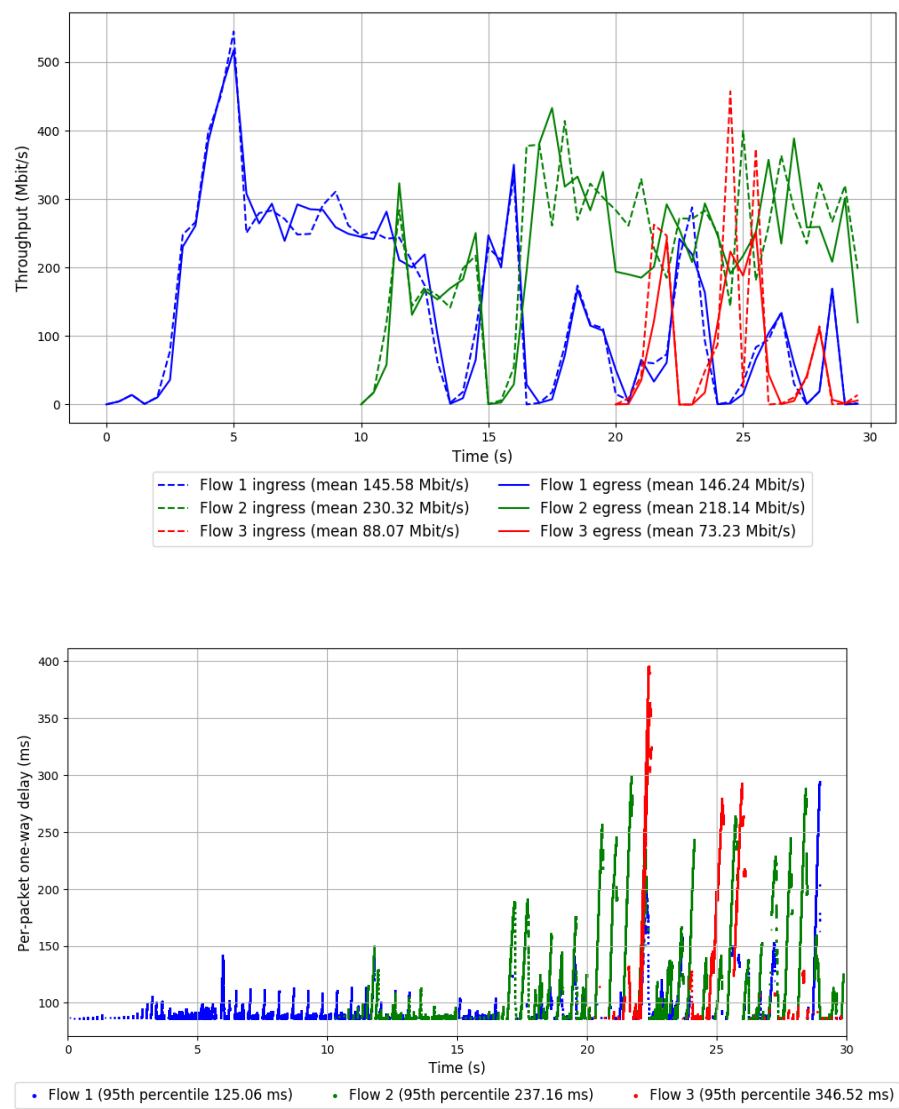
-- Flow 3:

Average throughput: 73.23 Mbit/s

95th percentile per-packet one-way delay: 346.519 ms

Loss rate: 18.33%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-11-16 17:14:56

End at: 2017-11-16 17:15:26

Below is generated by plot.py at 2017-11-16 22:25:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 125.46 Mbit/s

95th percentile per-packet one-way delay: 86.957 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 74.15 Mbit/s

95th percentile per-packet one-way delay: 87.002 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 60.62 Mbit/s

95th percentile per-packet one-way delay: 86.754 ms

Loss rate: 0.91%

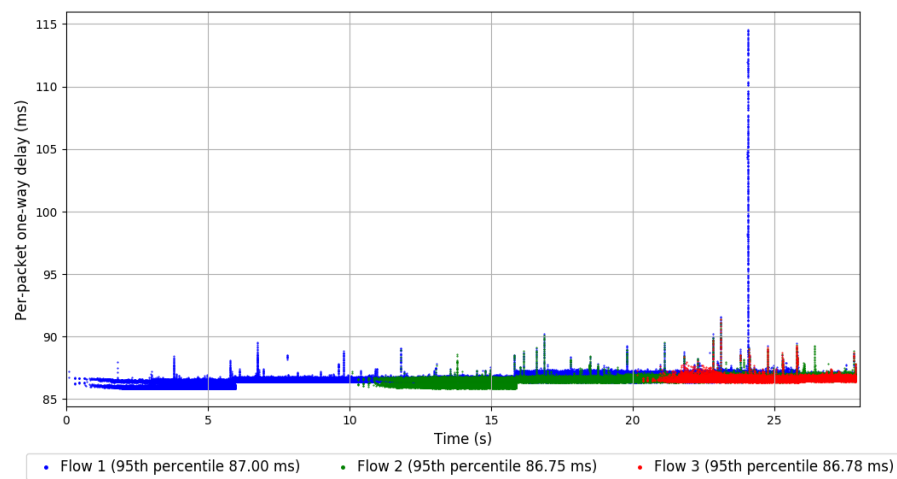
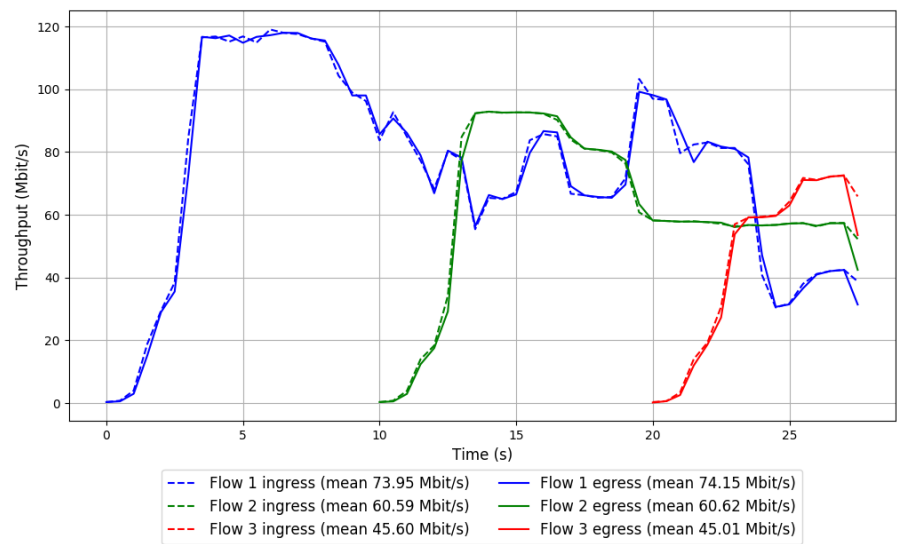
-- Flow 3:

Average throughput: 45.01 Mbit/s

95th percentile per-packet one-way delay: 86.778 ms

Loss rate: 3.46%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-11-16 17:28:15

End at: 2017-11-16 17:28:45

Below is generated by plot.py at 2017-11-16 22:25:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.62 Mbit/s

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

Loss rate: 0.75%

-- Flow 1:

Average throughput: 72.17 Mbit/s

95th percentile per-packet one-way delay: 86.787 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 74.66 Mbit/s

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

Loss rate: 0.86%

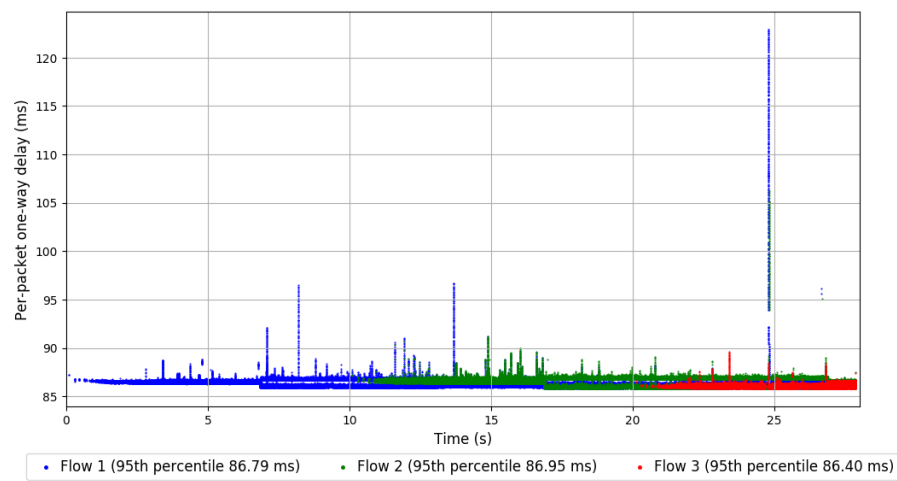
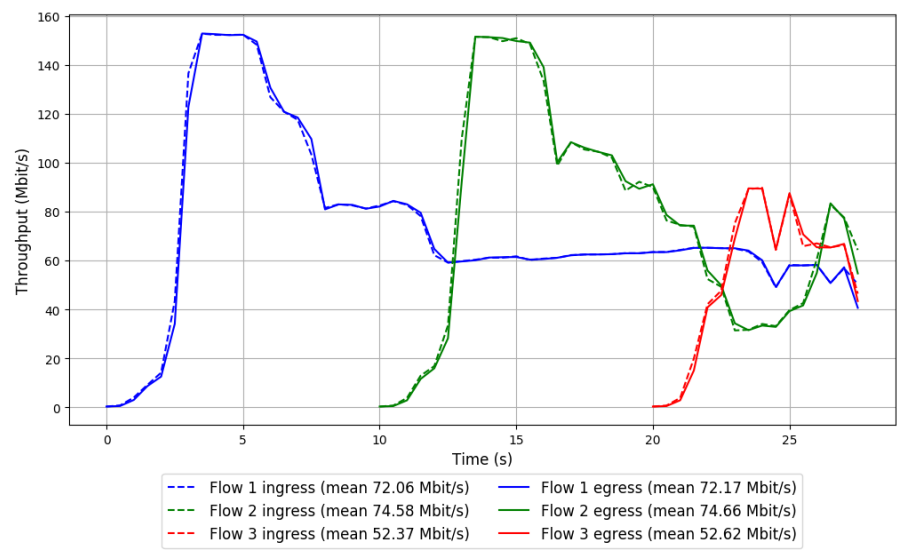
-- Flow 3:

Average throughput: 52.62 Mbit/s

95th percentile per-packet one-way delay: 86.399 ms

Loss rate: 1.71%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-16 17:41:43

End at: 2017-11-16 17:42:13

Below is generated by plot.py at 2017-11-16 22:25:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 141.65 Mbit/s

95th percentile per-packet one-way delay: 86.772 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 81.37 Mbit/s

95th percentile per-packet one-way delay: 86.793 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 63.82 Mbit/s

95th percentile per-packet one-way delay: 86.730 ms

Loss rate: 0.75%

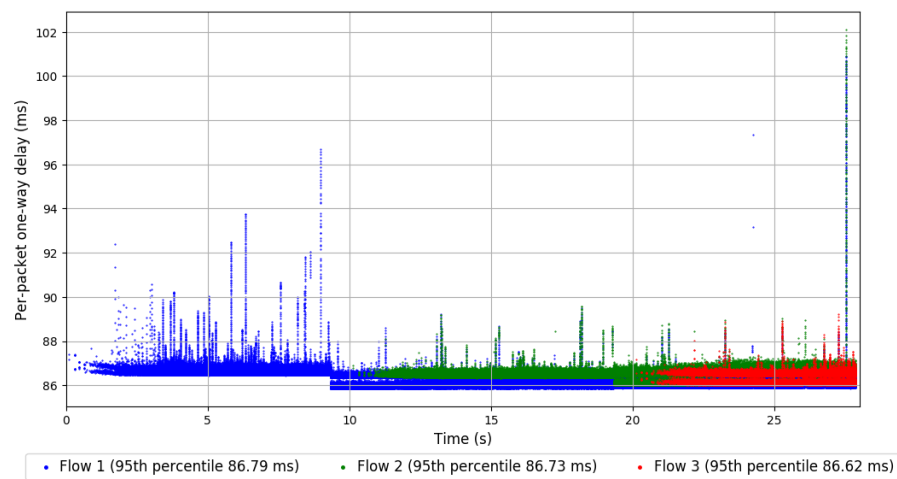
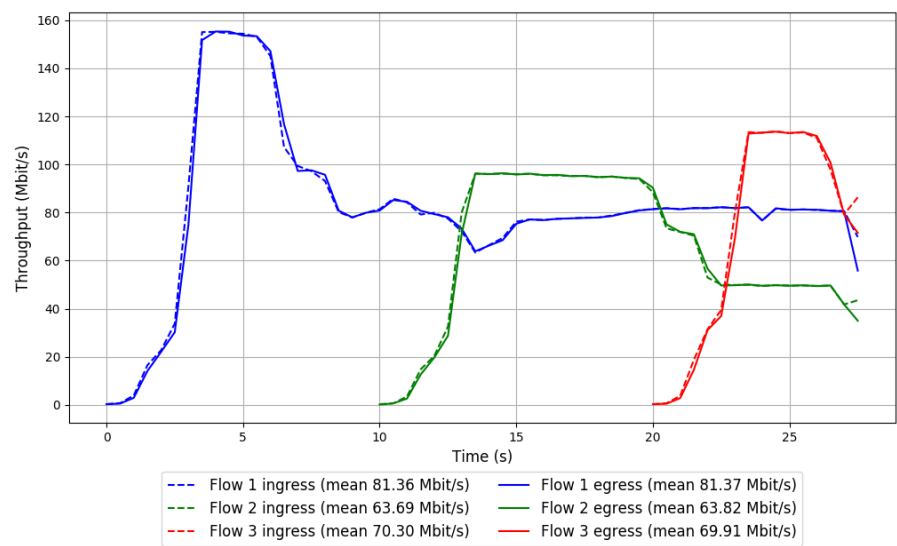
-- Flow 3:

Average throughput: 69.91 Mbit/s

95th percentile per-packet one-way delay: 86.624 ms

Loss rate: 2.74%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-16 17:55:00

End at: 2017-11-16 17:55:30

Below is generated by plot.py at 2017-11-16 22:25:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.23 Mbit/s

95th percentile per-packet one-way delay: 86.848 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 84.67 Mbit/s

95th percentile per-packet one-way delay: 86.574 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 60.28 Mbit/s

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

Loss rate: 0.49%

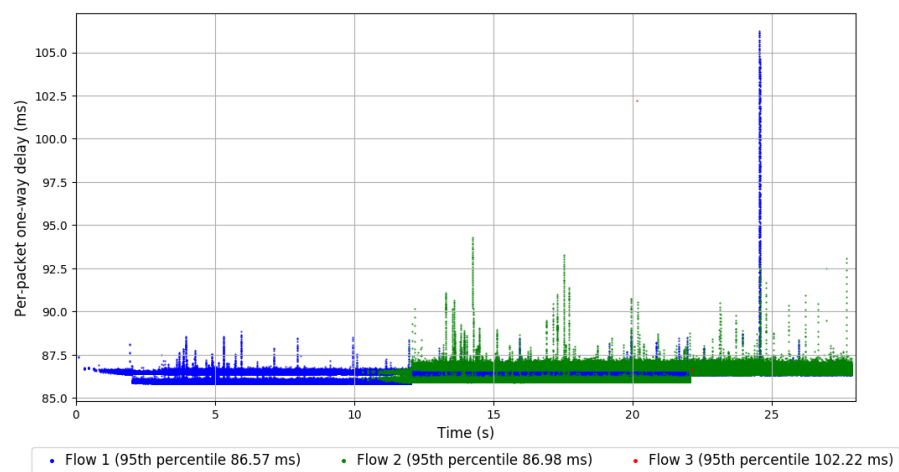
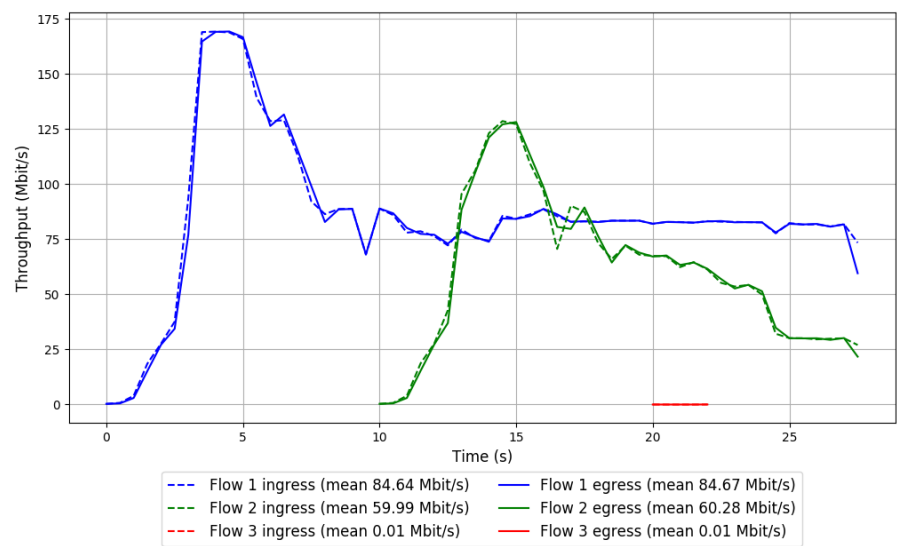
-- Flow 3:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 102.222 ms

Loss rate: 46.17%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-16 18:07:58

End at: 2017-11-16 18:08:28

Below is generated by plot.py at 2017-11-16 22:26:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 136.72 Mbit/s

95th percentile per-packet one-way delay: 86.922 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 82.88 Mbit/s

95th percentile per-packet one-way delay: 86.664 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 66.06 Mbit/s

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

Loss rate: 0.99%

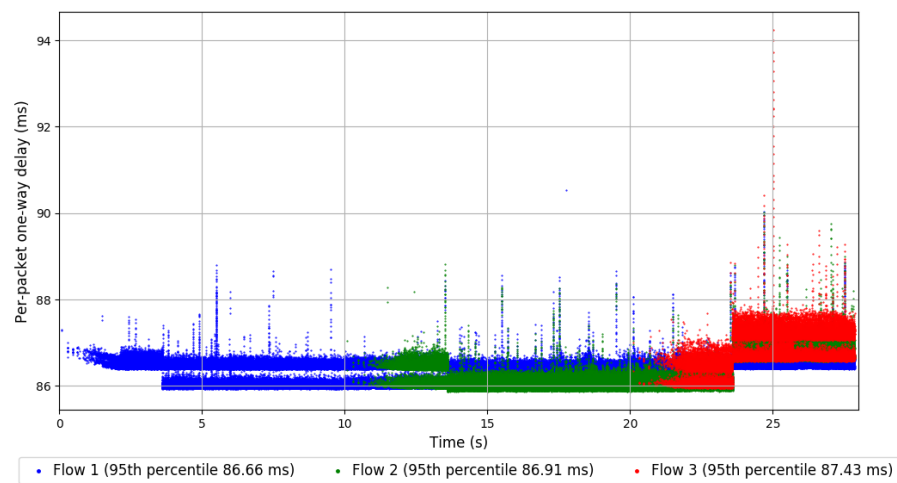
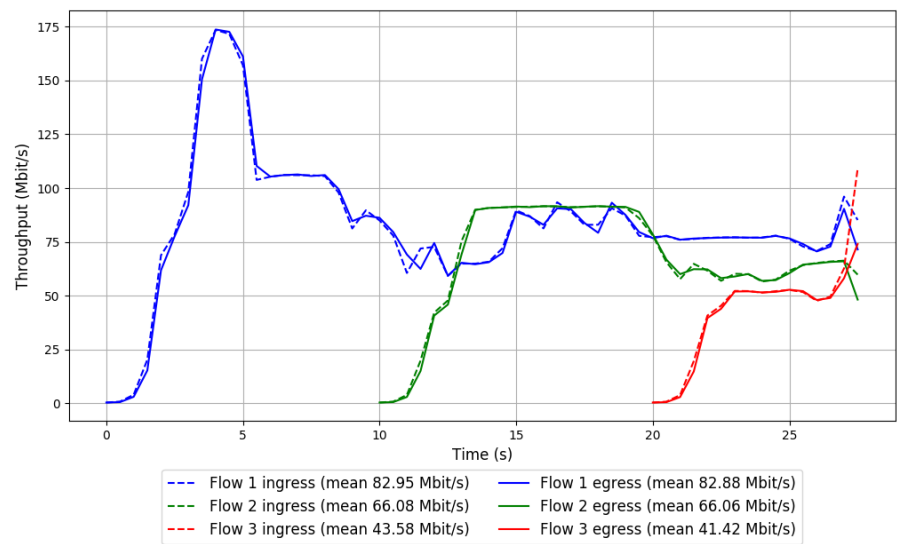
-- Flow 3:

Average throughput: 41.42 Mbit/s

95th percentile per-packet one-way delay: 87.430 ms

Loss rate: 7.02%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

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

End at: 2017-11-16 18:21:48

Below is generated by plot.py at 2017-11-16 22:26:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.27 Mbit/s

95th percentile per-packet one-way delay: 86.746 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 75.18 Mbit/s

95th percentile per-packet one-way delay: 86.727 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 71.76 Mbit/s

95th percentile per-packet one-way delay: 86.739 ms

Loss rate: 0.86%

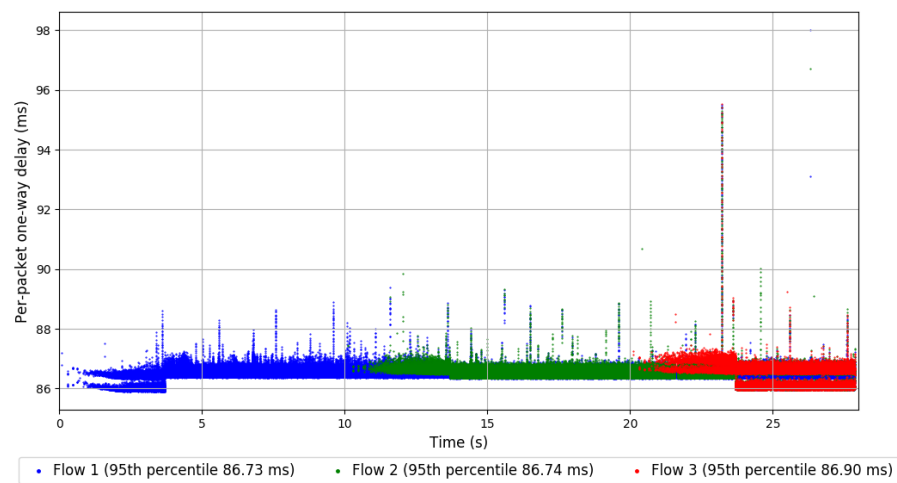
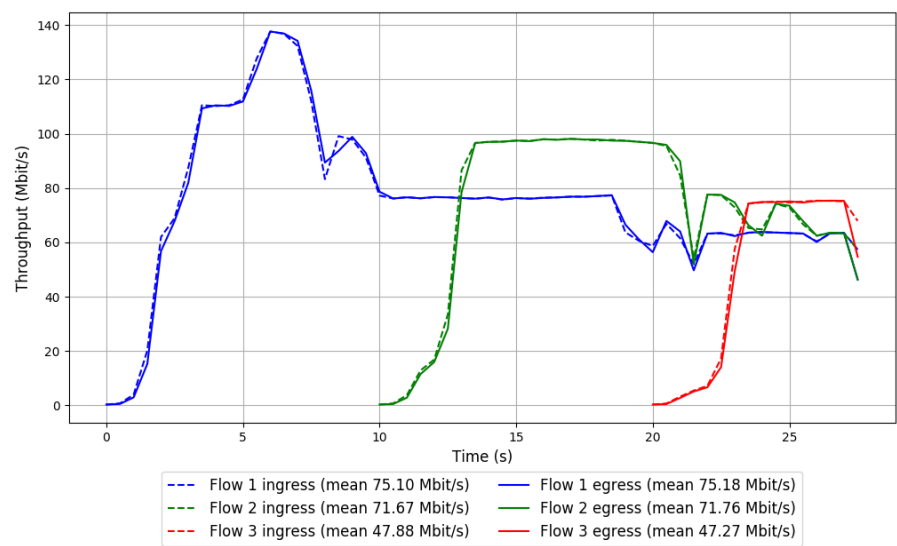
-- Flow 3:

Average throughput: 47.27 Mbit/s

95th percentile per-packet one-way delay: 86.900 ms

Loss rate: 3.42%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-11-16 18:34:33

End at: 2017-11-16 18:35:03

Below is generated by plot.py at 2017-11-16 22:27:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 137.79 Mbit/s

95th percentile per-packet one-way delay: 86.992 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 81.44 Mbit/s

95th percentile per-packet one-way delay: 86.952 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 61.27 Mbit/s

95th percentile per-packet one-way delay: 86.652 ms

Loss rate: 0.74%

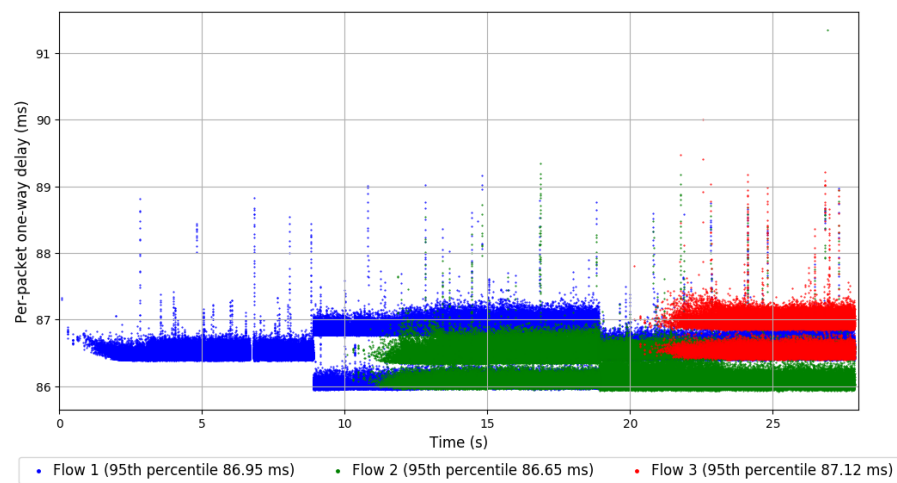
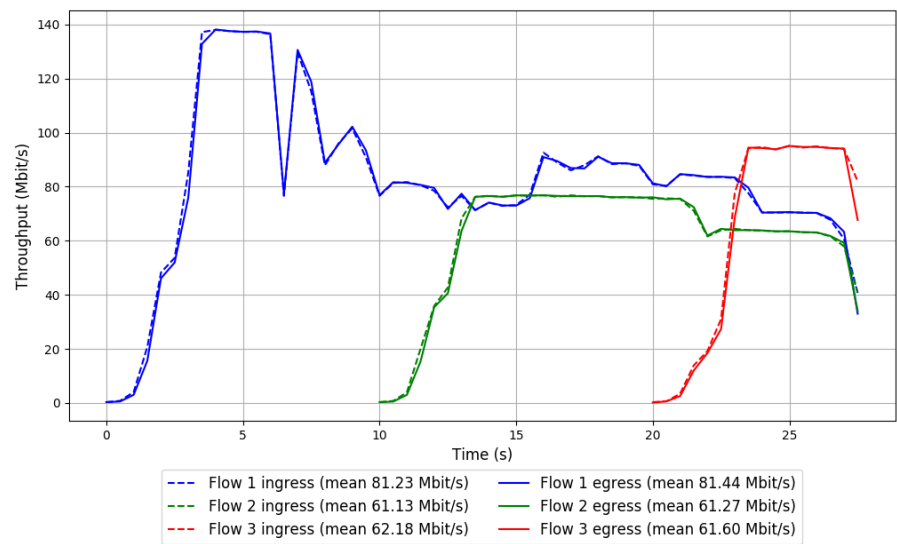
-- Flow 3:

Average throughput: 61.60 Mbit/s

95th percentile per-packet one-way delay: 87.118 ms

Loss rate: 3.11%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-11-16 18:47:57

End at: 2017-11-16 18:48:27

Below is generated by plot.py at 2017-11-16 22:28:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 140.76 Mbit/s

95th percentile per-packet one-way delay: 86.949 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 78.14 Mbit/s

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

Loss rate: 0.43%

-- Flow 2:

Average throughput: 65.08 Mbit/s

95th percentile per-packet one-way delay: 87.011 ms

Loss rate: 1.01%

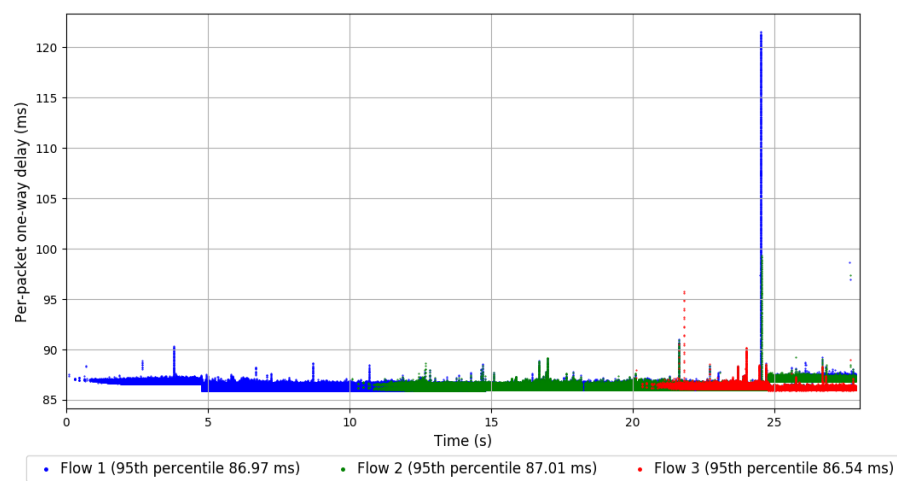
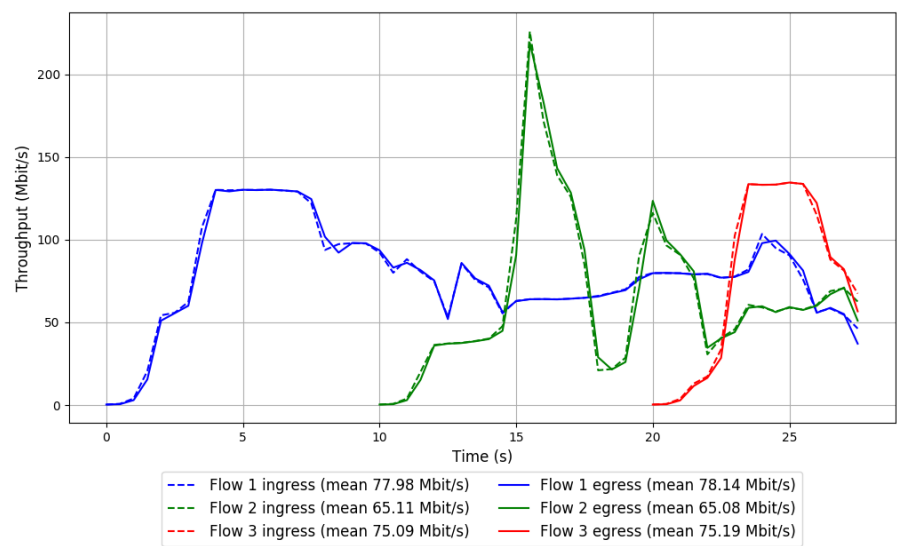
-- Flow 3:

Average throughput: 75.19 Mbit/s

95th percentile per-packet one-way delay: 86.538 ms

Loss rate: 2.05%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-11-16 19:01:14

End at: 2017-11-16 19:01:44

Below is generated by plot.py at 2017-11-16 22:28:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.12 Mbit/s

95th percentile per-packet one-way delay: 87.360 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 71.77 Mbit/s

95th percentile per-packet one-way delay: 87.274 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 8.71 Mbit/s

95th percentile per-packet one-way delay: 114.407 ms

Loss rate: 0.87%

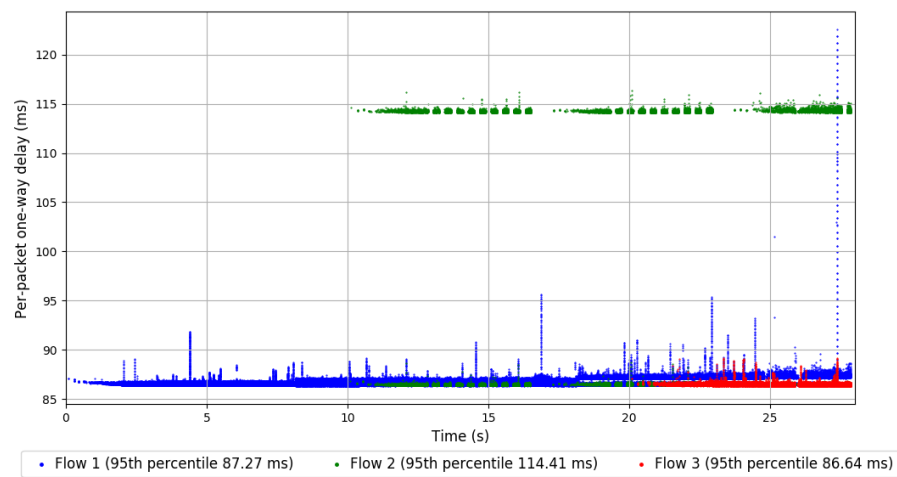
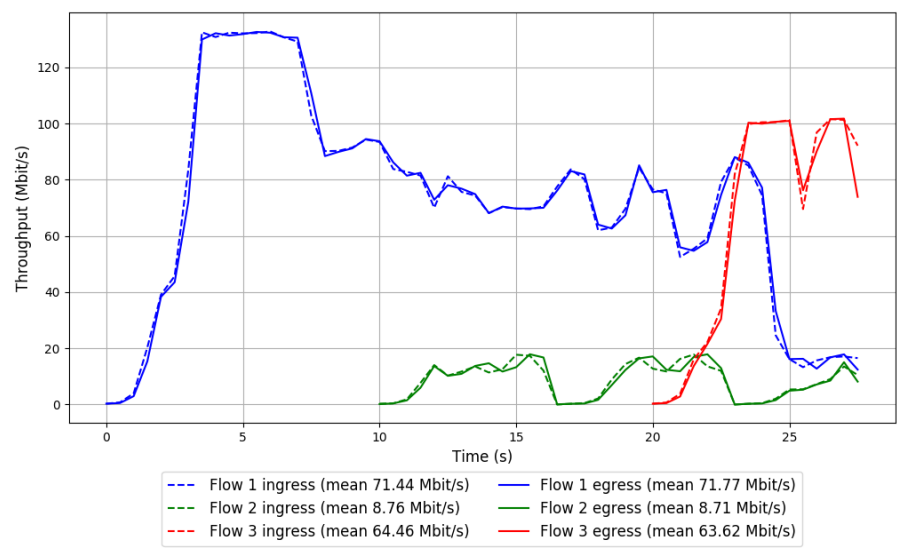
-- Flow 3:

Average throughput: 63.62 Mbit/s

95th percentile per-packet one-way delay: 86.635 ms

Loss rate: 3.46%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-16 19:14:21

End at: 2017-11-16 19:14:51

Below is generated by plot.py at 2017-11-16 22:28:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.50 Mbit/s

95th percentile per-packet one-way delay: 86.939 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 74.79 Mbit/s

95th percentile per-packet one-way delay: 86.627 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 45.31 Mbit/s

95th percentile per-packet one-way delay: 113.847 ms

Loss rate: 0.18%

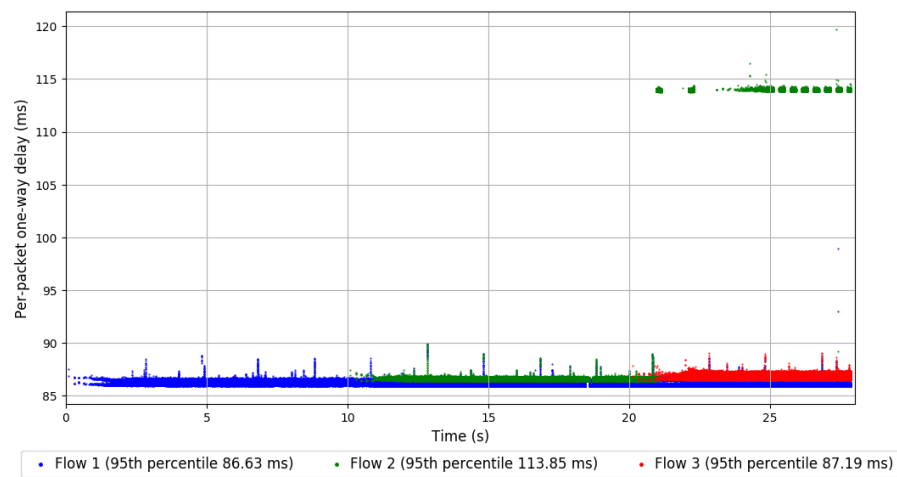
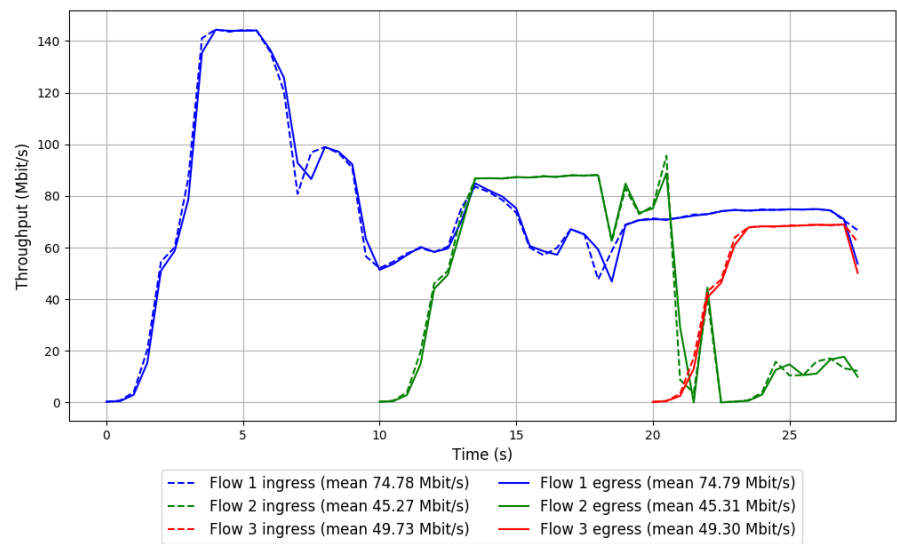
-- Flow 3:

Average throughput: 49.30 Mbit/s

95th percentile per-packet one-way delay: 87.192 ms

Loss rate: 3.03%

Run 10: Report of Copa — Data Link

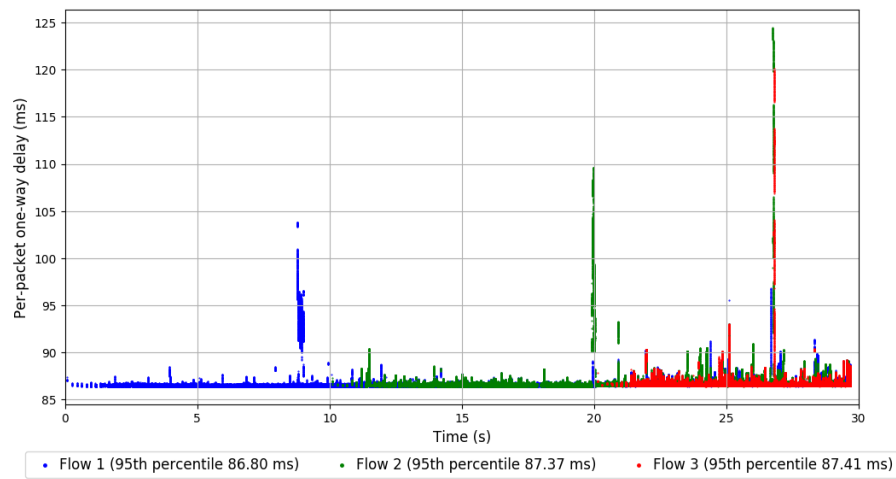
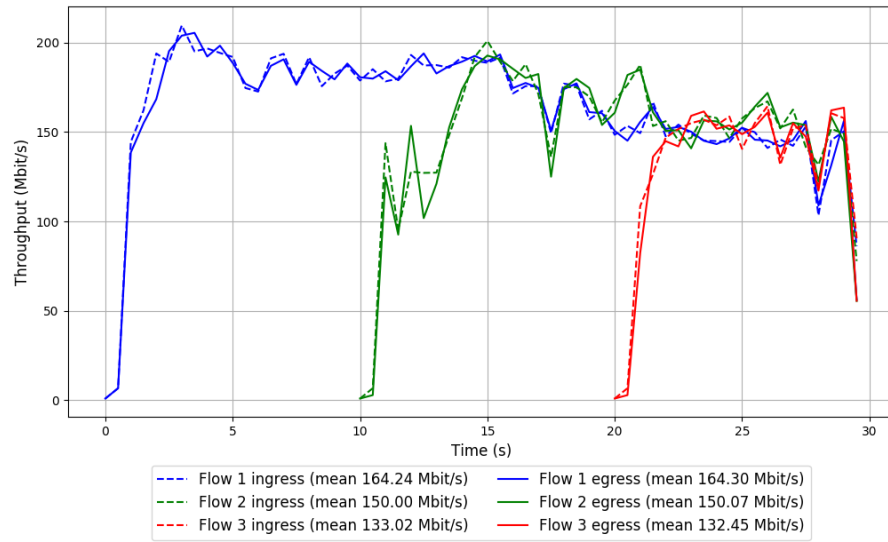


```
Run 1: Statistics of Indigo

Start at: 2017-11-16 17:17:24
End at: 2017-11-16 17:17:54

# Below is generated by plot.py at 2017-11-16 22:29:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 306.31 Mbit/s
95th percentile per-packet one-way delay: 87.024 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 164.30 Mbit/s
95th percentile per-packet one-way delay: 86.804 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 150.07 Mbit/s
95th percentile per-packet one-way delay: 87.369 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 132.45 Mbit/s
95th percentile per-packet one-way delay: 87.406 ms
Loss rate: 2.21%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-11-16 17:30:47

End at: 2017-11-16 17:31:17

Below is generated by plot.py at 2017-11-16 22:30:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.31 Mbit/s

95th percentile per-packet one-way delay: 86.760 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 173.25 Mbit/s

95th percentile per-packet one-way delay: 86.723 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 149.23 Mbit/s

95th percentile per-packet one-way delay: 86.947 ms

Loss rate: 0.93%

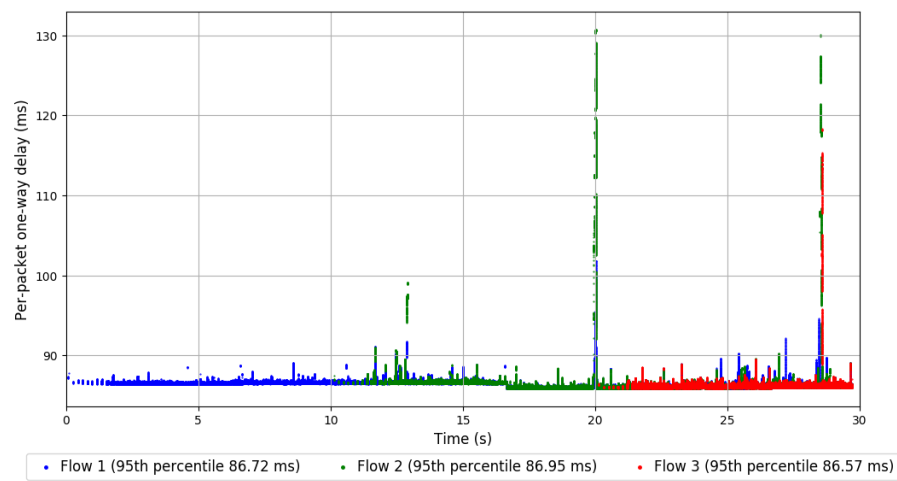
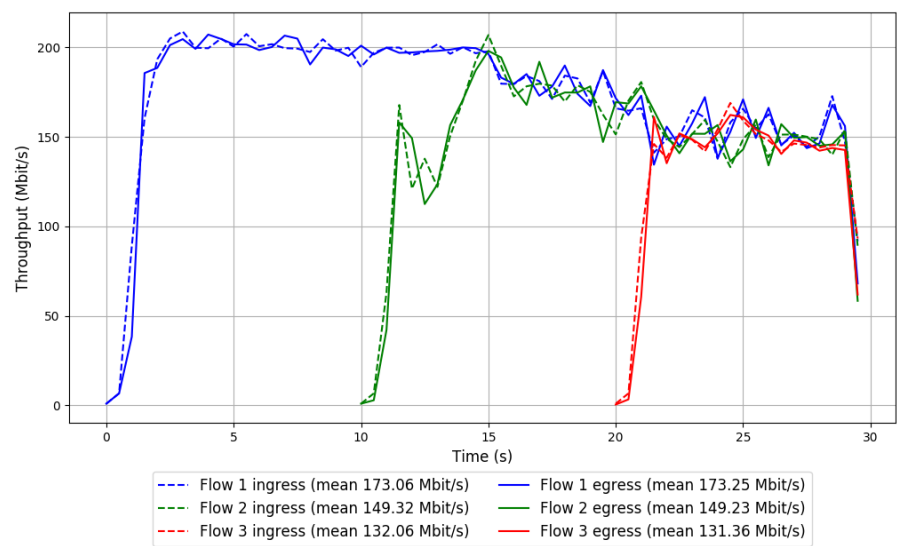
-- Flow 3:

Average throughput: 131.36 Mbit/s

95th percentile per-packet one-way delay: 86.566 ms

Loss rate: 2.29%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-16 17:44:12

End at: 2017-11-16 17:44:42

Below is generated by plot.py at 2017-11-16 22:31:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 320.81 Mbit/s

95th percentile per-packet one-way delay: 86.914 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 171.65 Mbit/s

95th percentile per-packet one-way delay: 86.686 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 160.24 Mbit/s

95th percentile per-packet one-way delay: 87.220 ms

Loss rate: 0.72%

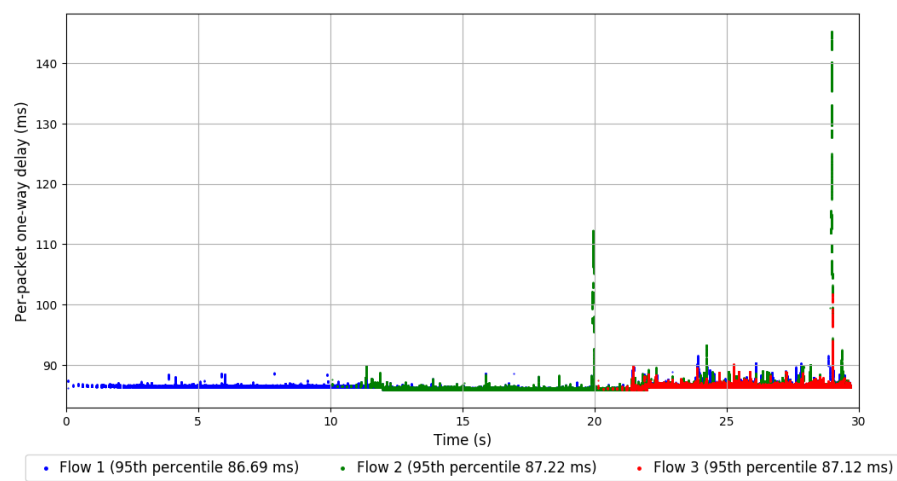
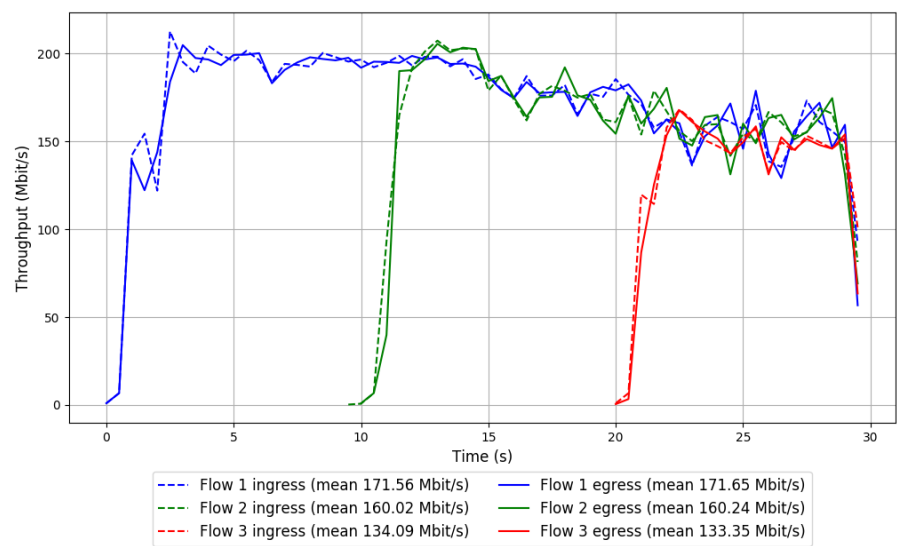
-- Flow 3:

Average throughput: 133.35 Mbit/s

95th percentile per-packet one-way delay: 87.122 ms

Loss rate: 2.35%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-16 17:57:32

End at: 2017-11-16 17:58:02

Below is generated by plot.py at 2017-11-16 22:32:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.12 Mbit/s

95th percentile per-packet one-way delay: 86.498 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 168.11 Mbit/s

95th percentile per-packet one-way delay: 86.415 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 158.04 Mbit/s

95th percentile per-packet one-way delay: 86.732 ms

Loss rate: 0.95%

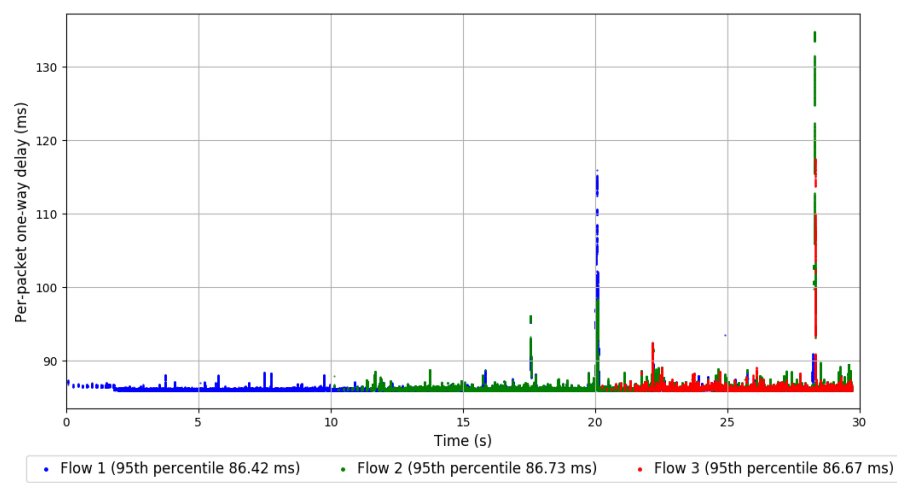
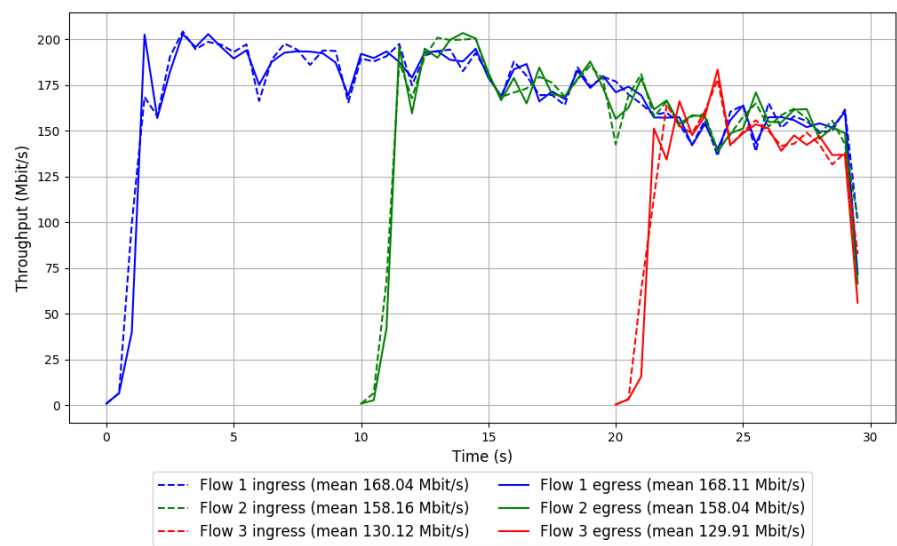
-- Flow 3:

Average throughput: 129.91 Mbit/s

95th percentile per-packet one-way delay: 86.672 ms

Loss rate: 1.93%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-11-16 18:10:30

End at: 2017-11-16 18:11:00

Below is generated by plot.py at 2017-11-16 22:32:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 317.01 Mbit/s

95th percentile per-packet one-way delay: 87.042 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 171.22 Mbit/s

95th percentile per-packet one-way delay: 87.042 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 149.14 Mbit/s

95th percentile per-packet one-way delay: 87.112 ms

Loss rate: 0.95%

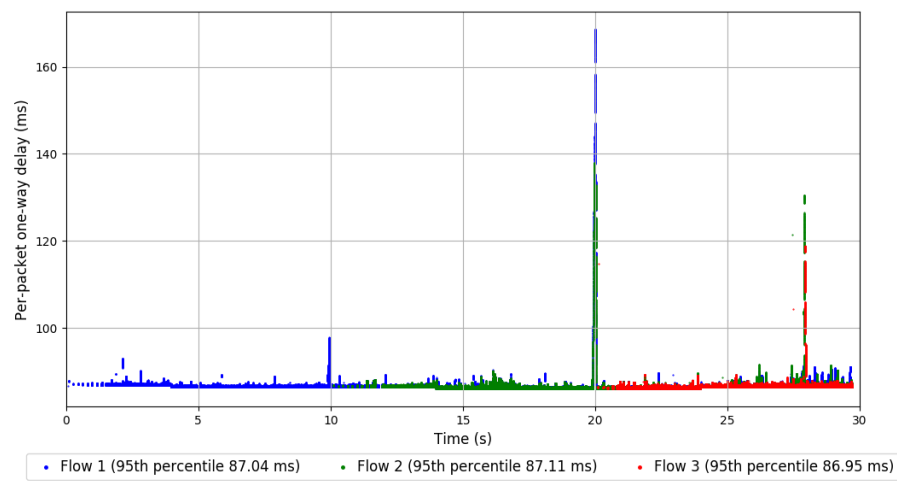
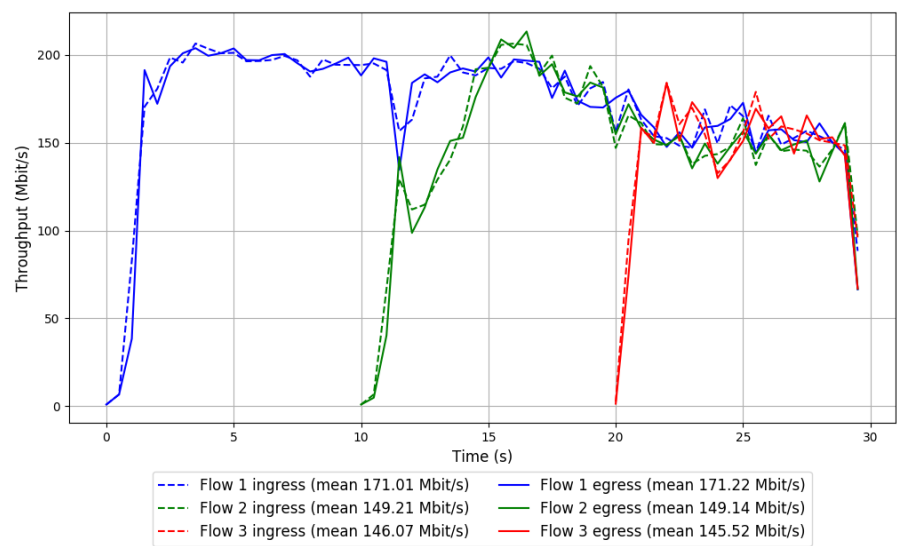
-- Flow 3:

Average throughput: 145.52 Mbit/s

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

Loss rate: 2.15%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-16 18:23:51

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

Below is generated by plot.py at 2017-11-16 22:32:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 319.54 Mbit/s

95th percentile per-packet one-way delay: 87.196 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 171.90 Mbit/s

95th percentile per-packet one-way delay: 87.131 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 158.26 Mbit/s

95th percentile per-packet one-way delay: 87.426 ms

Loss rate: 0.86%

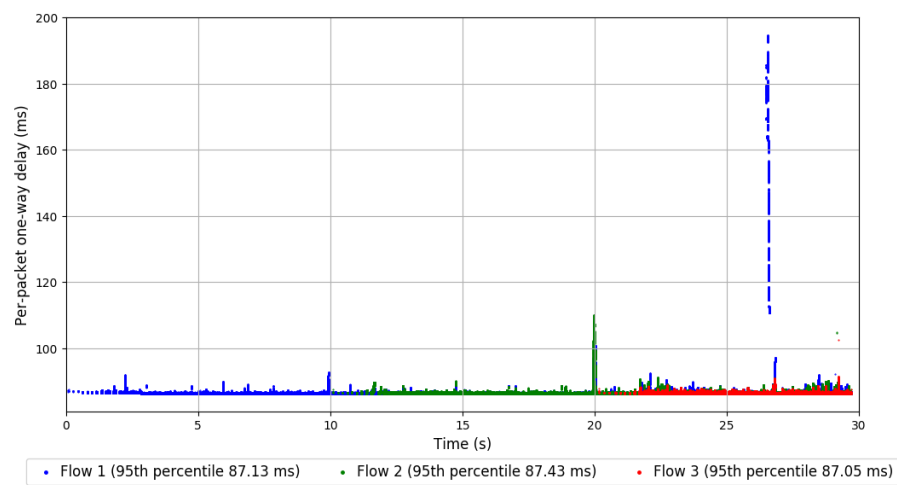
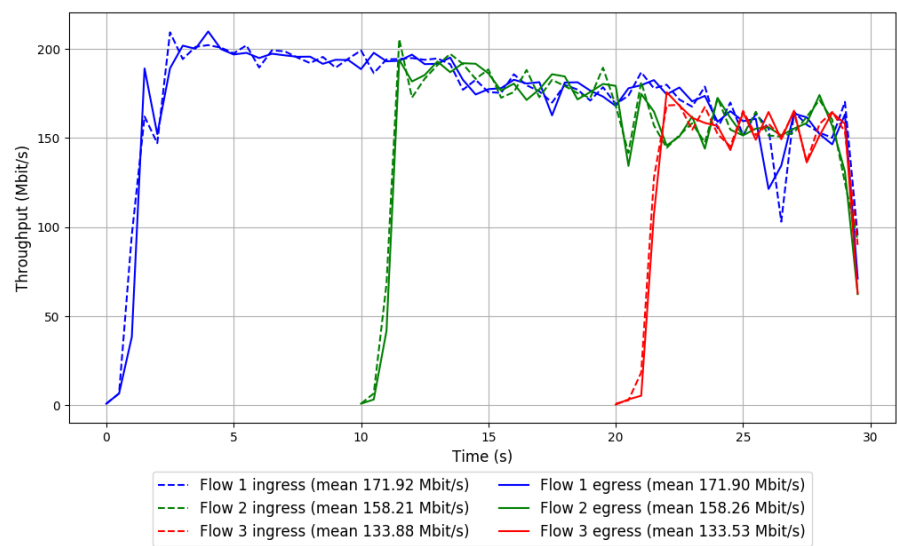
-- Flow 3:

Average throughput: 133.53 Mbit/s

95th percentile per-packet one-way delay: 87.048 ms

Loss rate: 2.05%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-11-16 18:37:05

End at: 2017-11-16 18:37:35

Below is generated by plot.py at 2017-11-16 22:33:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 328.53 Mbit/s

95th percentile per-packet one-way delay: 87.191 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 172.36 Mbit/s

95th percentile per-packet one-way delay: 86.866 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 163.86 Mbit/s

95th percentile per-packet one-way delay: 88.193 ms

Loss rate: 0.75%

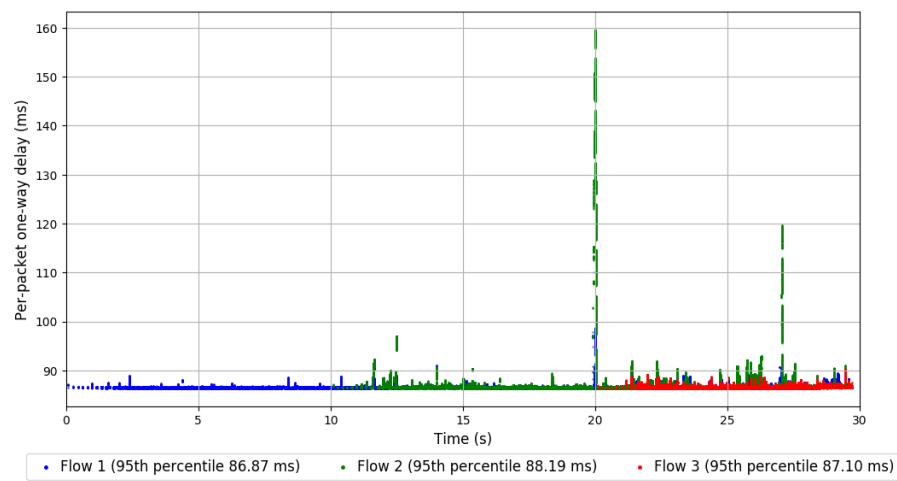
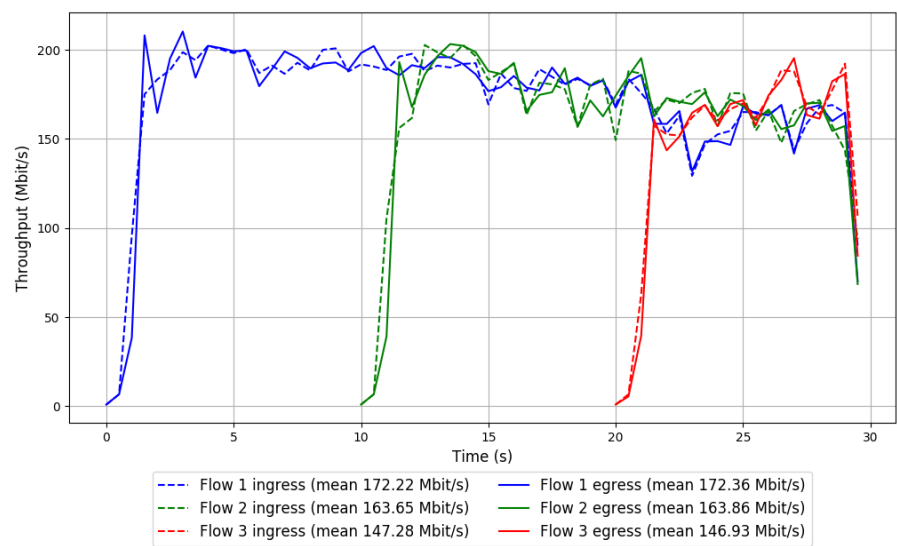
-- Flow 3:

Average throughput: 146.93 Mbit/s

95th percentile per-packet one-way delay: 87.098 ms

Loss rate: 1.99%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-16 18:50:29

End at: 2017-11-16 18:50:59

Below is generated by plot.py at 2017-11-16 22:33:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 311.73 Mbit/s

95th percentile per-packet one-way delay: 87.083 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 160.45 Mbit/s

95th percentile per-packet one-way delay: 86.939 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 159.58 Mbit/s

95th percentile per-packet one-way delay: 87.299 ms

Loss rate: 0.95%

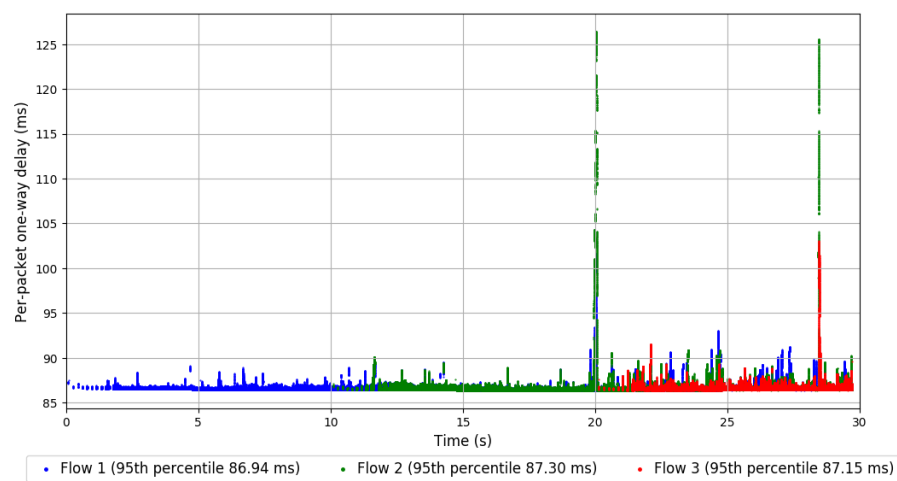
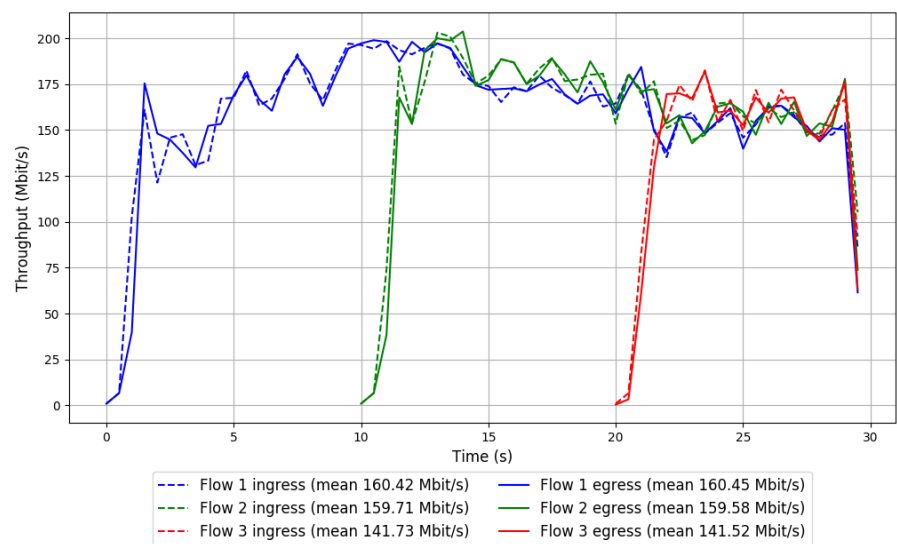
-- Flow 3:

Average throughput: 141.52 Mbit/s

95th percentile per-packet one-way delay: 87.146 ms

Loss rate: 1.90%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-16 19:03:41

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

Below is generated by plot.py at 2017-11-16 22:35:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.00 Mbit/s

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

Loss rate: 0.83%

-- Flow 1:

Average throughput: 171.32 Mbit/s

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

Loss rate: 0.60%

-- Flow 2:

Average throughput: 145.88 Mbit/s

95th percentile per-packet one-way delay: 87.145 ms

Loss rate: 0.78%

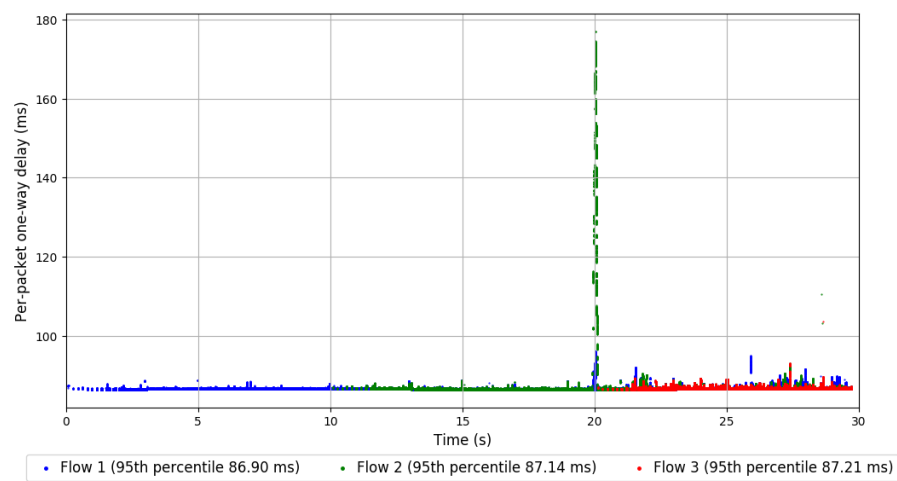
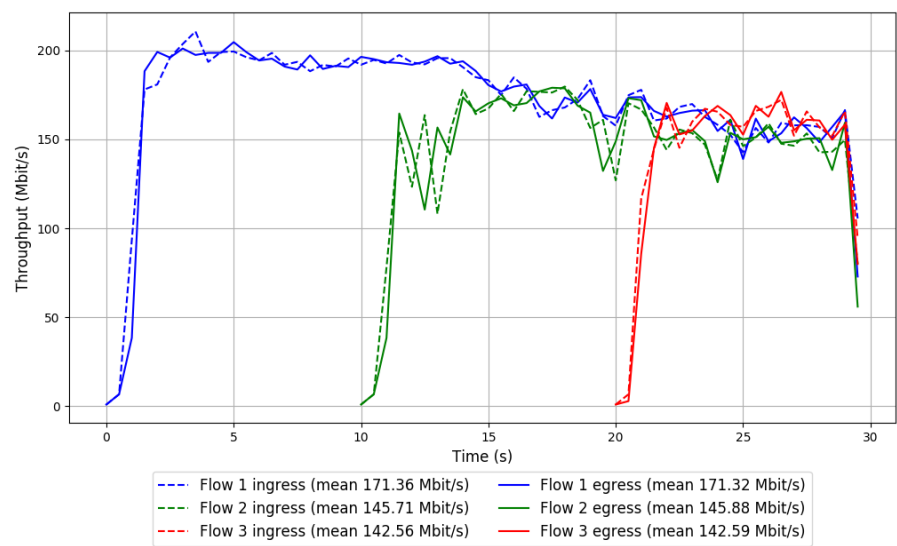
-- Flow 3:

Average throughput: 142.59 Mbit/s

95th percentile per-packet one-way delay: 87.213 ms

Loss rate: 1.75%

Run 9: Report of Indigo — Data Link

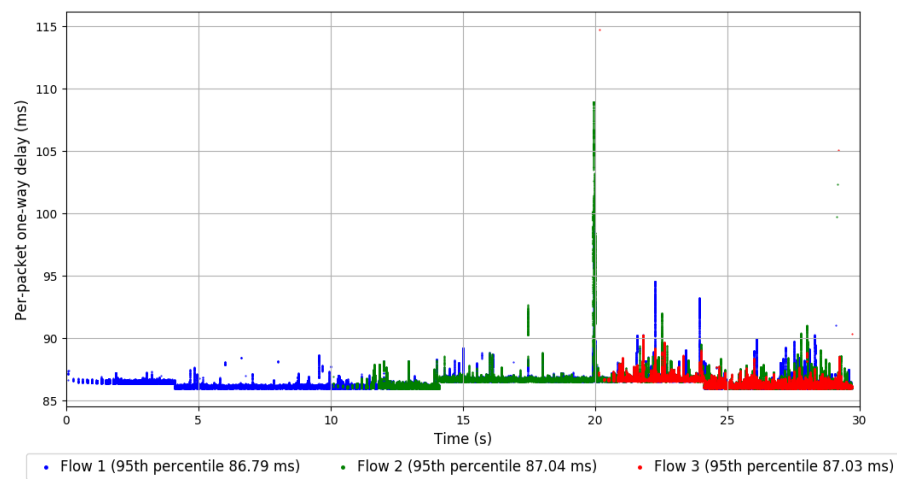
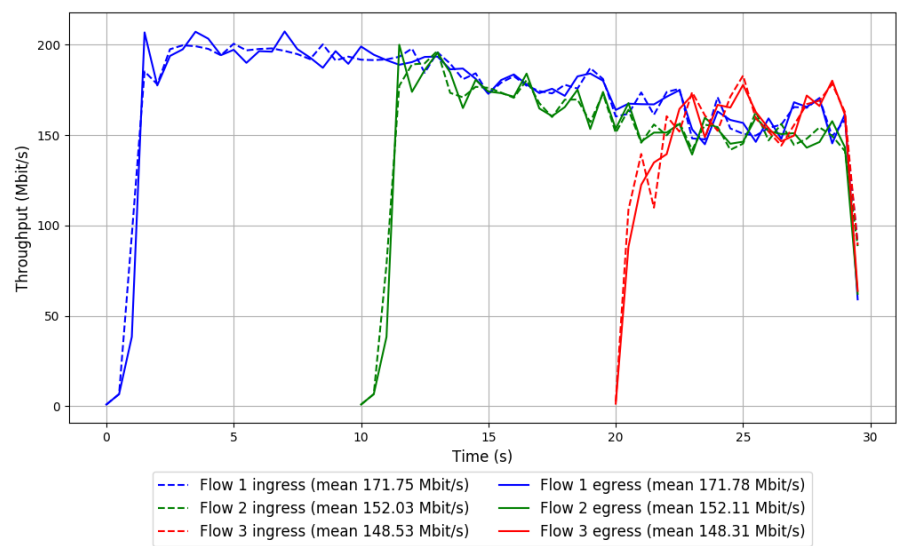


```
Run 10: Statistics of Indigo

Start at: 2017-11-16 19:16:50
End at: 2017-11-16 19:17:20

# Below is generated by plot.py at 2017-11-16 22:35:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 320.27 Mbit/s
95th percentile per-packet one-way delay: 86.902 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 171.78 Mbit/s
95th percentile per-packet one-way delay: 86.791 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 152.11 Mbit/s
95th percentile per-packet one-way delay: 87.039 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 148.31 Mbit/s
95th percentile per-packet one-way delay: 87.032 ms
Loss rate: 1.87%
```

Run 10: Report of Indigo — Data Link

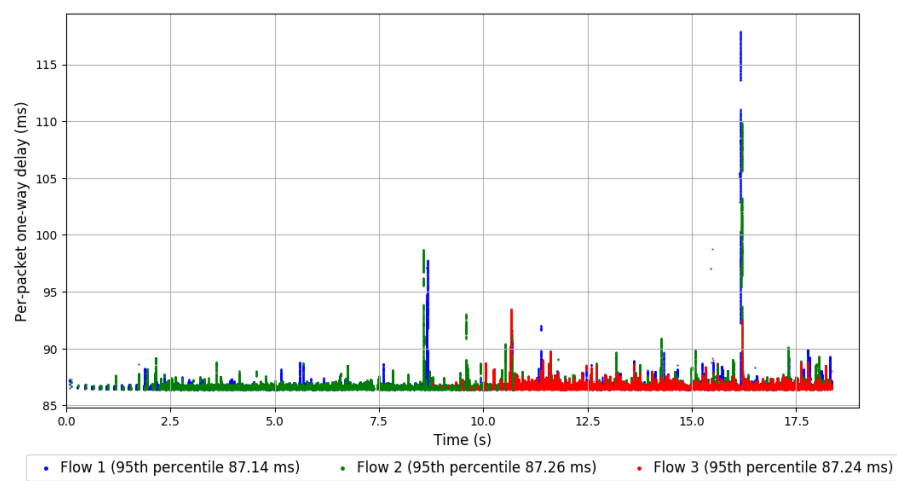
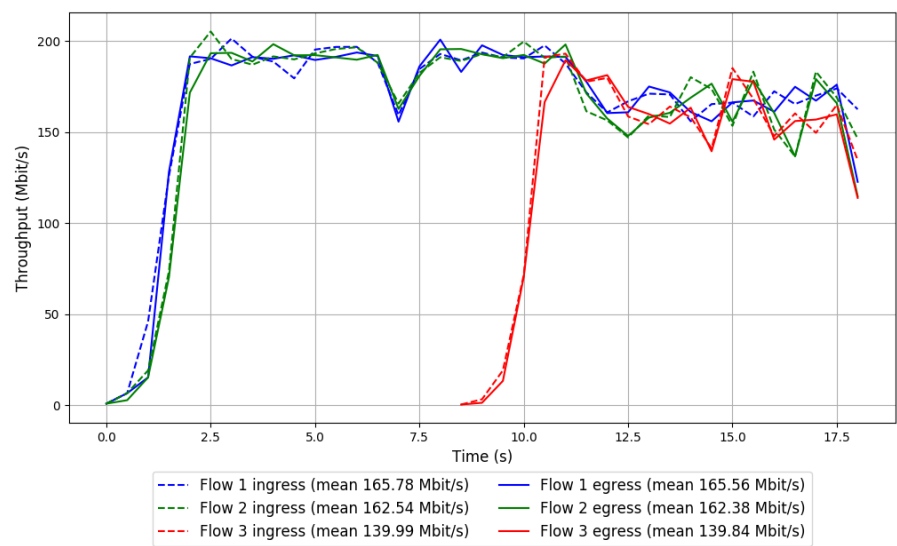


Run 1: Statistics of Indigo-calib

Start at: 2017-11-16 17:13:53

End at: 2017-11-16 17:14:23

Run 1: Report of Indigo-calib — Data Link

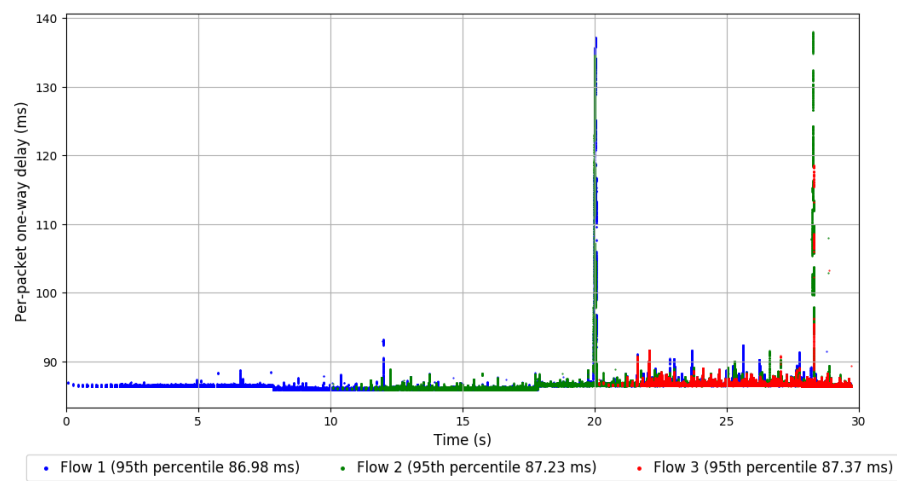
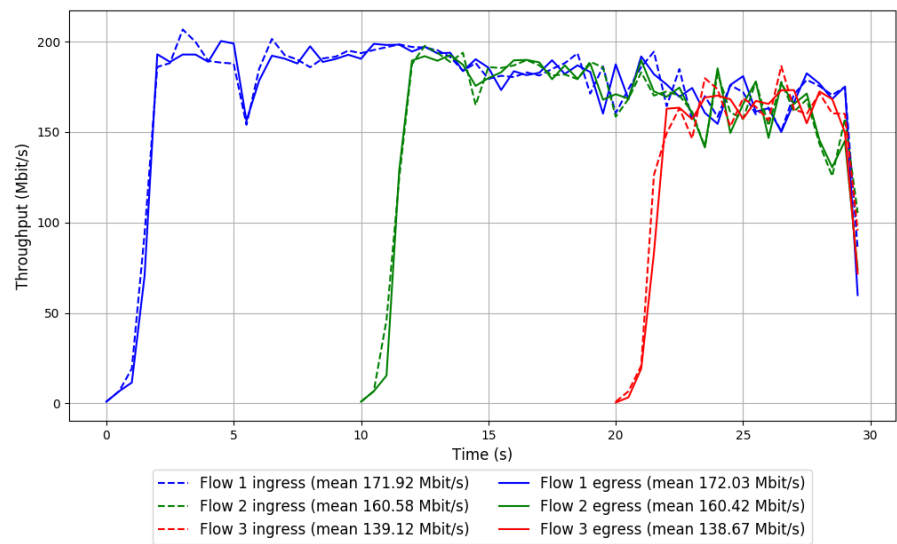


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-16 17:27:06
End at: 2017-11-16 17:27:36

# Below is generated by plot.py at 2017-11-16 22:37:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 322.90 Mbit/s
95th percentile per-packet one-way delay: 87.147 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 172.03 Mbit/s
95th percentile per-packet one-way delay: 86.980 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 160.42 Mbit/s
95th percentile per-packet one-way delay: 87.234 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 138.67 Mbit/s
95th percentile per-packet one-way delay: 87.371 ms
Loss rate: 2.04%
```

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-11-16 17:40:35

End at: 2017-11-16 17:41:05

Below is generated by plot.py at 2017-11-16 22:37:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 309.08 Mbit/s

95th percentile per-packet one-way delay: 86.826 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 166.89 Mbit/s

95th percentile per-packet one-way delay: 86.760 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 153.74 Mbit/s

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

Loss rate: 0.85%

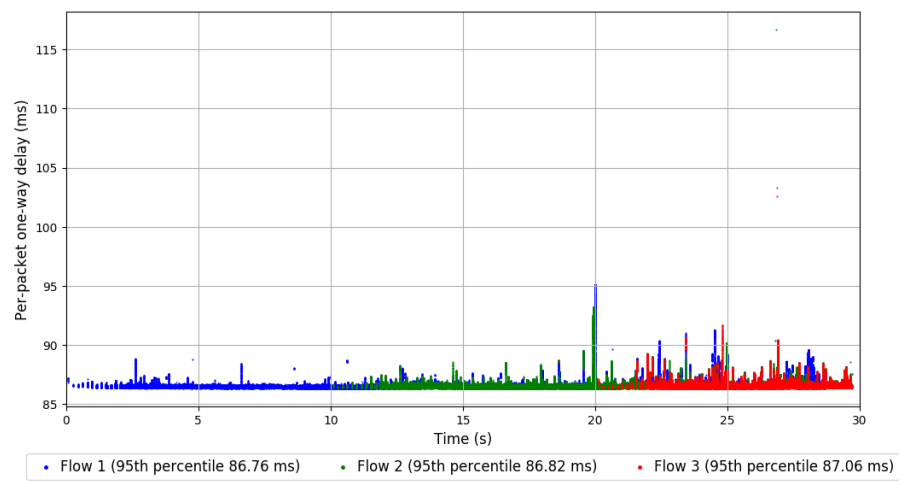
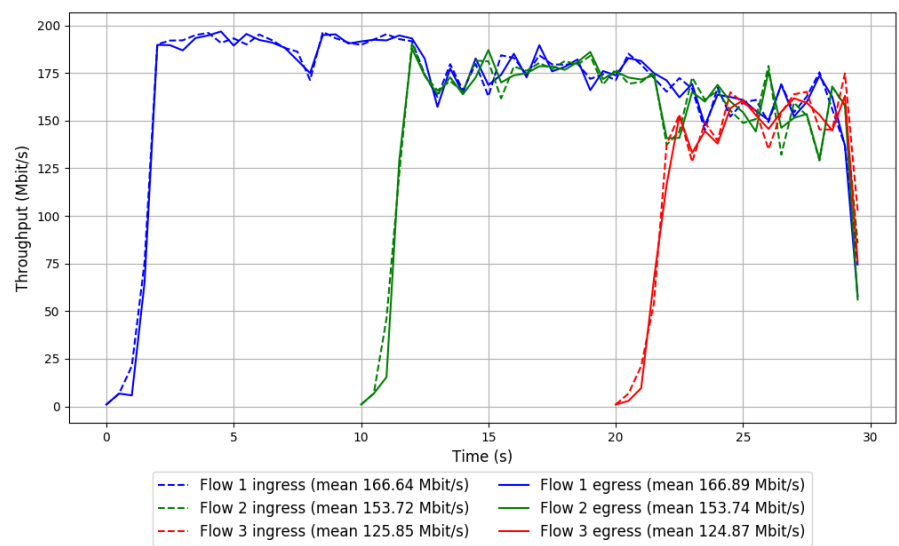
-- Flow 3:

Average throughput: 124.87 Mbit/s

95th percentile per-packet one-way delay: 87.065 ms

Loss rate: 2.56%

Run 3: Report of Indigo-calib — Data Link

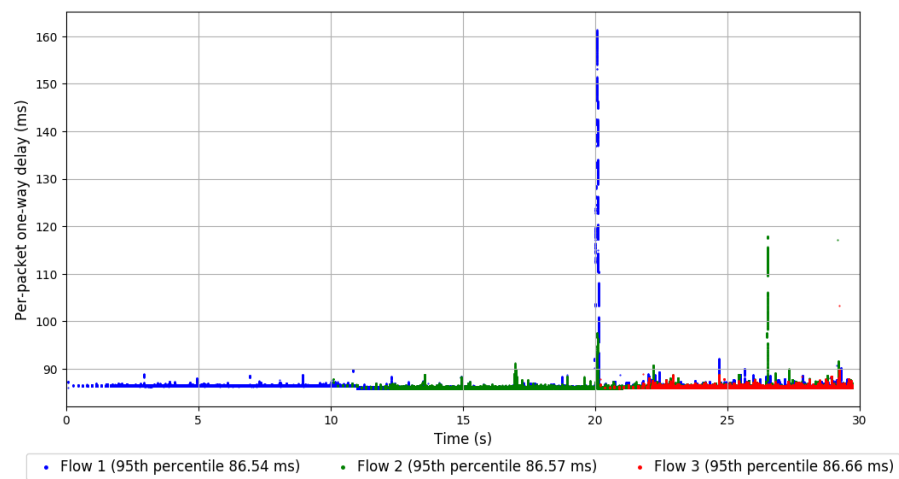
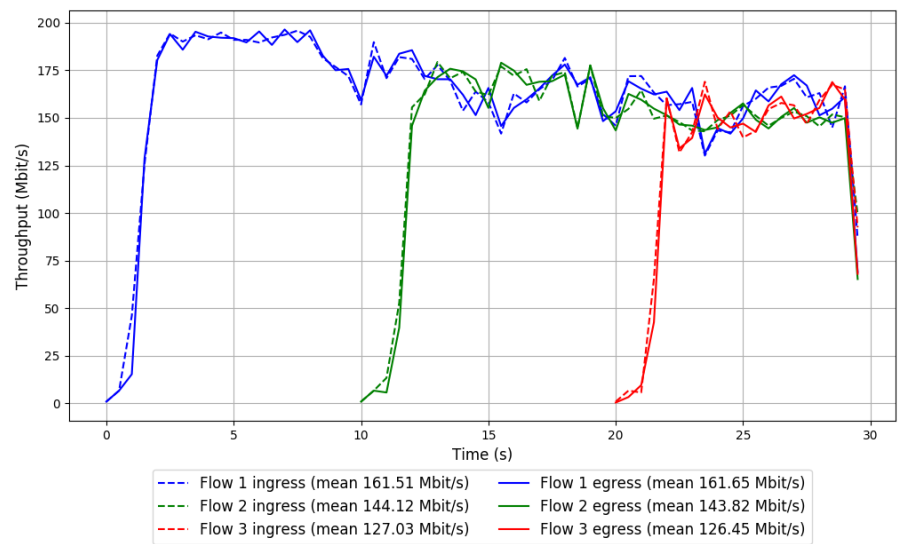


```
Run 4: Statistics of Indigo-calib

Start at: 2017-11-16 17:53:53
End at: 2017-11-16 17:54:23

# Below is generated by plot.py at 2017-11-16 22:37:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 297.51 Mbit/s
95th percentile per-packet one-way delay: 86.563 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 161.65 Mbit/s
95th percentile per-packet one-way delay: 86.544 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 143.82 Mbit/s
95th percentile per-packet one-way delay: 86.572 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 126.45 Mbit/s
95th percentile per-packet one-way delay: 86.663 ms
Loss rate: 2.23%
```

Run 4: Report of Indigo-calib — Data Link

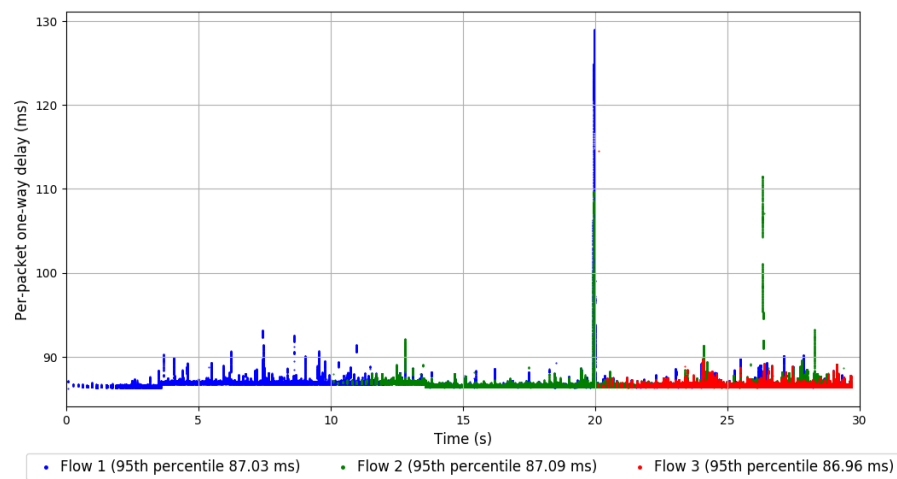
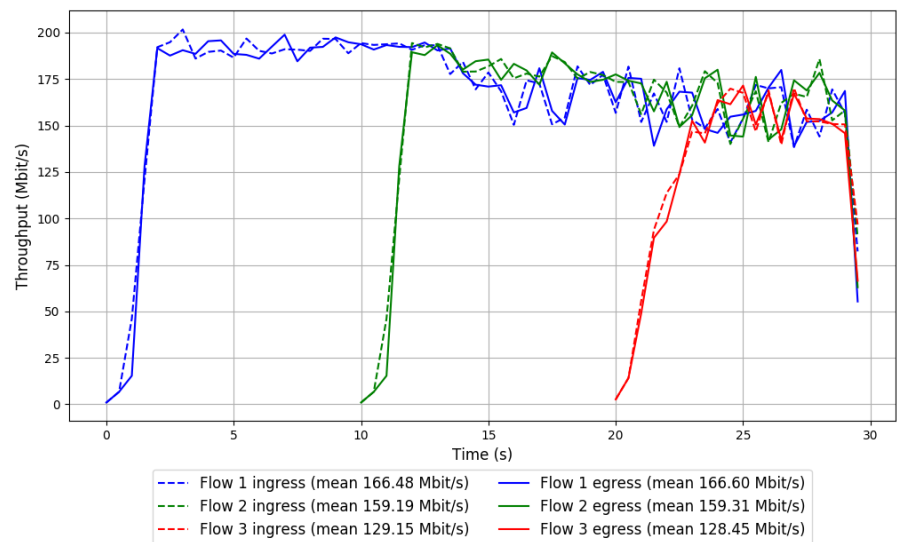


```
Run 5: Statistics of Indigo-calib

Start at: 2017-11-16 18:06:50
End at: 2017-11-16 18:07:20

# Below is generated by plot.py at 2017-11-16 22:38:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 313.67 Mbit/s
95th percentile per-packet one-way delay: 87.045 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 166.60 Mbit/s
95th percentile per-packet one-way delay: 87.033 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 159.31 Mbit/s
95th percentile per-packet one-way delay: 87.089 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 128.45 Mbit/s
95th percentile per-packet one-way delay: 86.956 ms
Loss rate: 2.31%
```

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-11-16 18:20:10

End at: 2017-11-16 18:20:40

Below is generated by plot.py at 2017-11-16 22:38:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 319.92 Mbit/s

95th percentile per-packet one-way delay: 87.100 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 170.68 Mbit/s

95th percentile per-packet one-way delay: 87.071 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 157.75 Mbit/s

95th percentile per-packet one-way delay: 87.150 ms

Loss rate: 0.91%

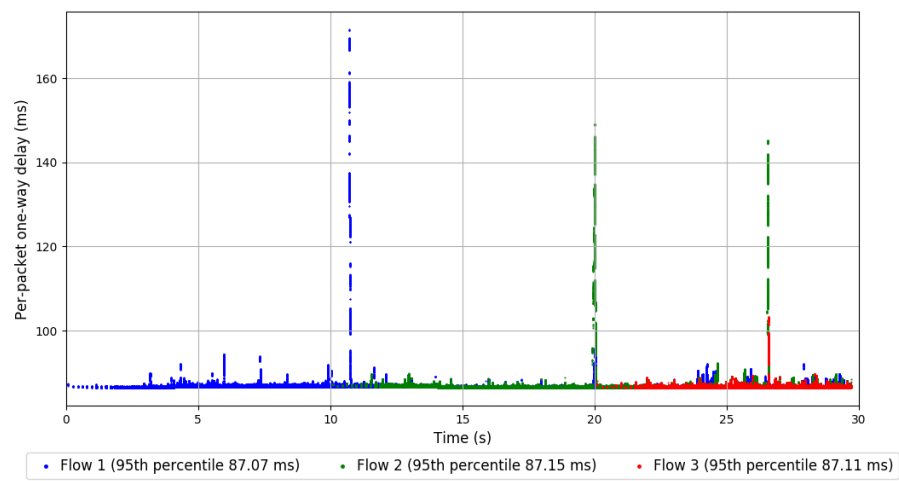
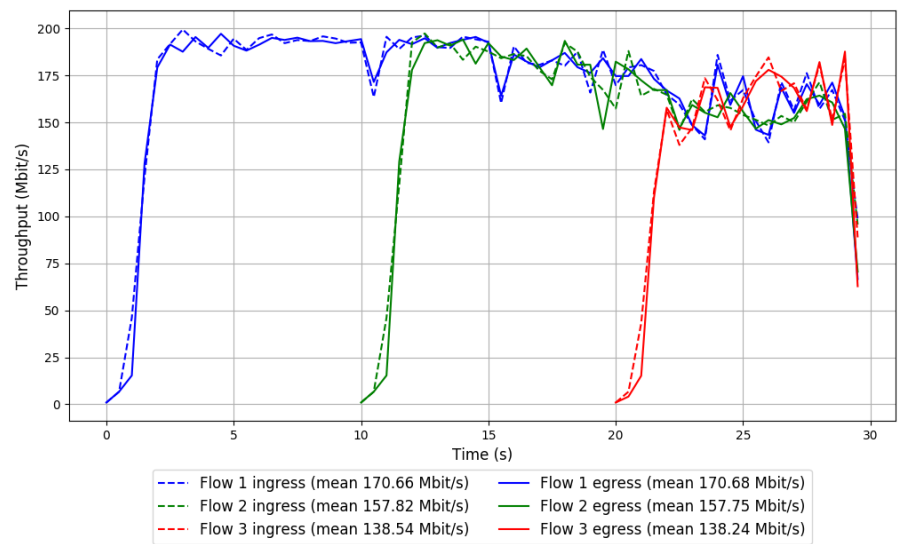
-- Flow 3:

Average throughput: 138.24 Mbit/s

95th percentile per-packet one-way delay: 87.114 ms

Loss rate: 1.99%

Run 6: Report of Indigo-calib — Data Link

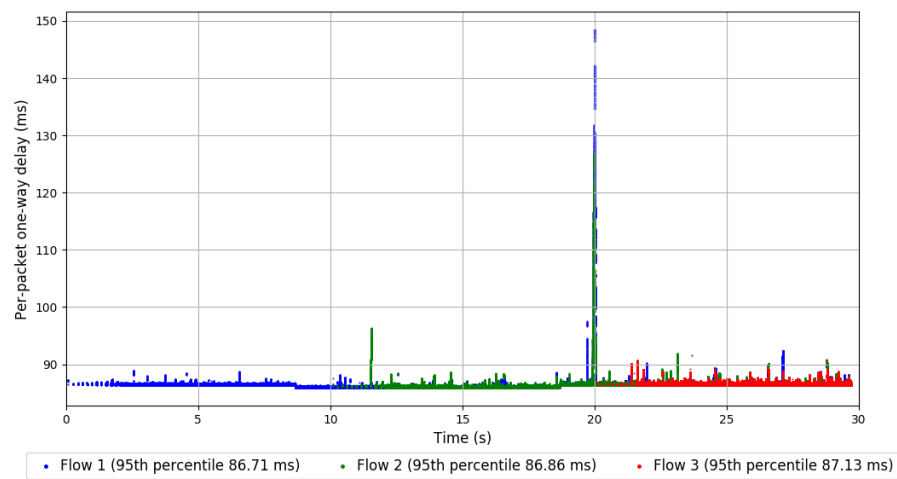
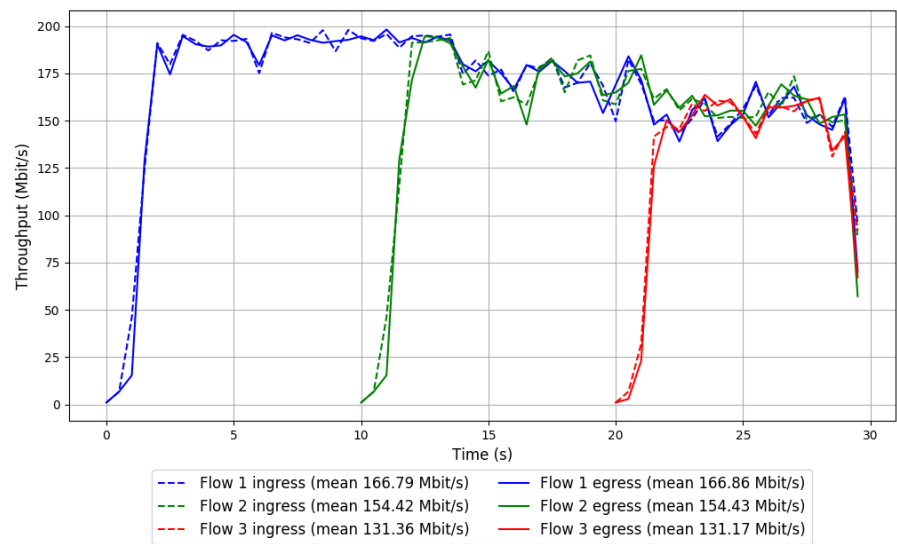


```
Run 7: Statistics of Indigo-calib

Start at: 2017-11-16 18:33:25
End at: 2017-11-16 18:33:55

# Below is generated by plot.py at 2017-11-16 22:39:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 311.51 Mbit/s
95th percentile per-packet one-way delay: 86.810 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 166.86 Mbit/s
95th percentile per-packet one-way delay: 86.706 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 154.43 Mbit/s
95th percentile per-packet one-way delay: 86.857 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 131.17 Mbit/s
95th percentile per-packet one-way delay: 87.128 ms
Loss rate: 1.94%
```


Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-16 18:46:49

End at: 2017-11-16 18:47:19

Below is generated by plot.py at 2017-11-16 22:39:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 316.31 Mbit/s

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

Loss rate: 0.89%

-- Flow 1:

Average throughput: 169.70 Mbit/s

95th percentile per-packet one-way delay: 86.835 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 156.53 Mbit/s

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

Loss rate: 0.99%

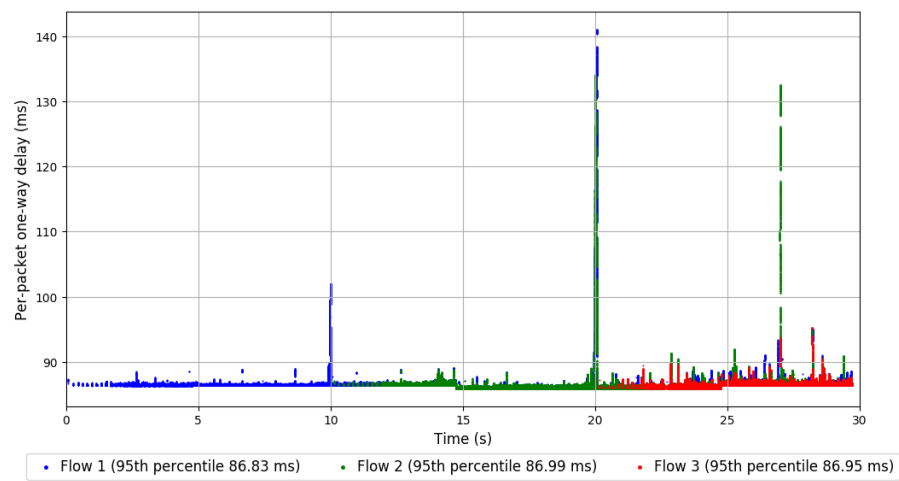
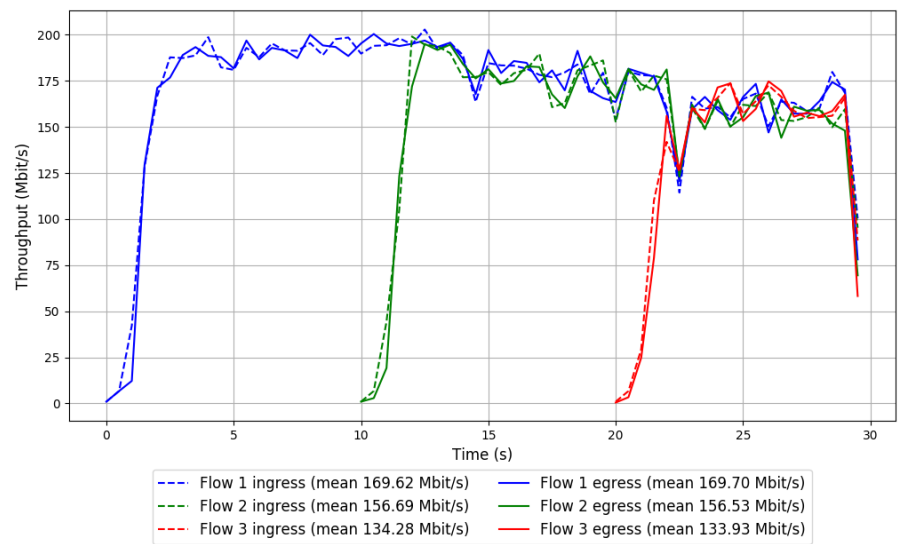
-- Flow 3:

Average throughput: 133.93 Mbit/s

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

Loss rate: 2.05%

Run 8: Report of Indigo-calib — Data Link

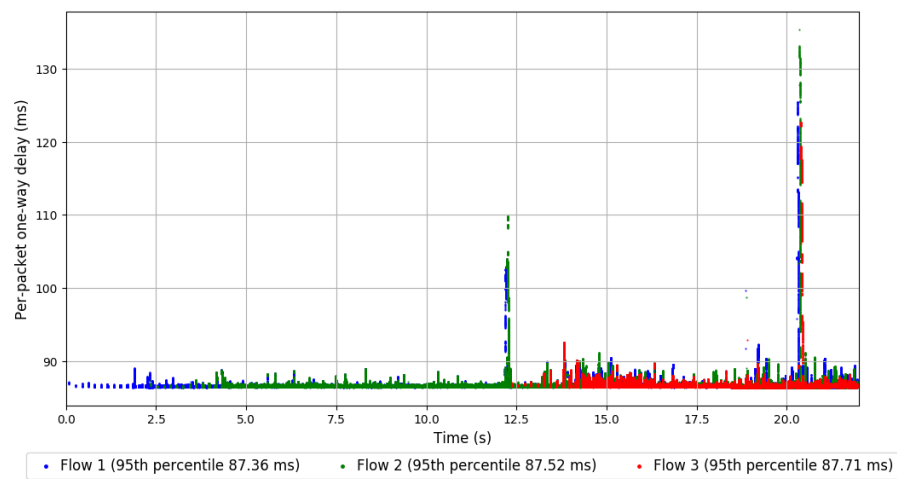
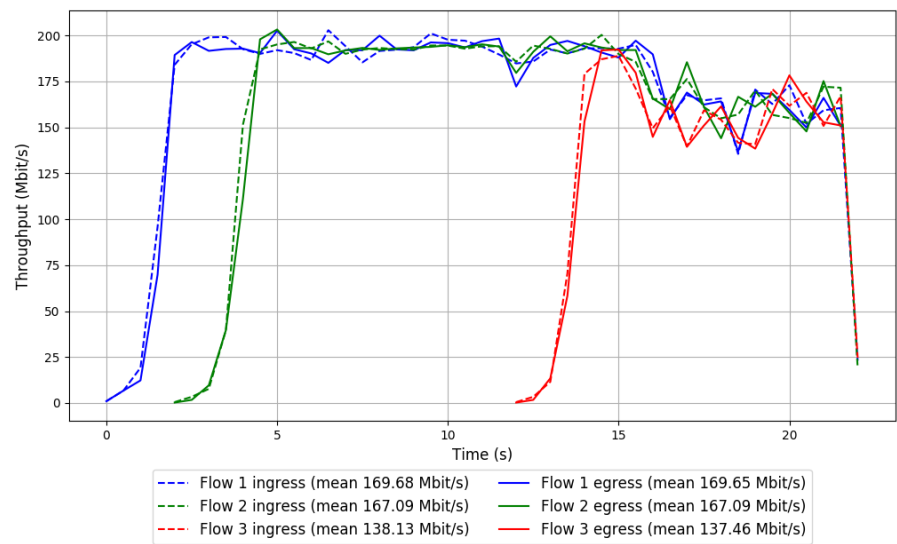


Run 9: Statistics of Indigo-calib

Start at: 2017-11-16 19:00:08

End at: 2017-11-16 19:00:38

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-16 19:13:22

End at: 2017-11-16 19:13:52

Run 10: Report of Indigo-calib — Data Link

