

## Pantheon Report

Generated at 2017-12-20 16:00:39 (UTC).

Data path: AWS California 1 Ethernet (*local*) → Stanford Ethernet (*remote*).

Repeated the test of 14 congestion control schemes 10 times.

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

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

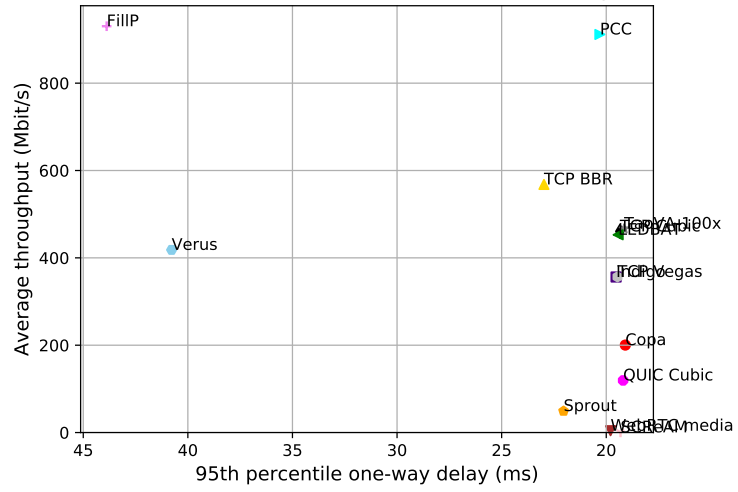
Tested BBR with qdisc of Fair Queuing (*fq*), and other schemes with the default Linux qdisc (*pfifo\_fast*).

NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

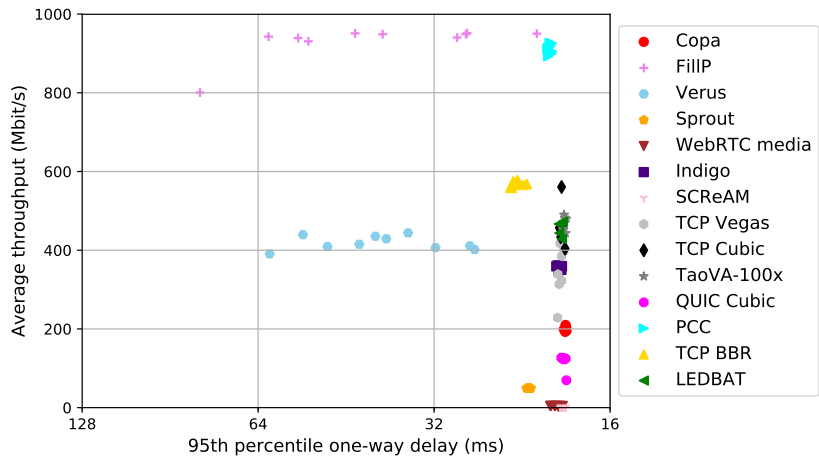
Git summary:

```
branch: master @ 904a5750834816b1e46a2c86405d707788d27c16
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ dcaef6b00654e660f73f7ed679d2eab61ce08639
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from AWS California 1 Ethernet to Stanford Ethernet, 10 runs of 30s each per scheme  
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS California 1 Ethernet to Stanford 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	311.20	264.51	243.51	23.73	21.79	20.90	16.56	20.49	22.60
TCP Cubic	6	267.22	178.86	189.09	19.15	19.33	19.39	0.07	0.10	0.12
LEDBAT	4	262.27	209.11	154.93	19.38	19.48	19.14	0.02	0.03	0.05
PCC	10	781.74	151.15	89.26	20.30	20.18	20.28	0.51	0.37	0.45
QUIC Cubic	10	60.52	61.68	54.48	19.28	19.17	20.09	0.00	0.01	0.01
SCReAM	9	0.22	0.22	0.22	19.26	19.09	19.27	0.00	0.00	0.00
WebRTC media	10	2.11	1.46	0.57	19.74	19.88	20.11	0.00	0.00	0.02
Sprout	10	24.73	24.68	24.44	22.13	21.81	21.65	0.02	0.02	0.05
TaoVA-100x	10	242.81	241.30	243.57	18.71	18.85	19.20	0.00	0.01	0.01
TCP Vegas	8	148.26	193.81	187.41	601.29	19.29	19.36	0.05	0.11	0.14
Verus	10	215.50	218.63	179.22	47.06	30.39	27.22	20.42	20.99	20.25
Copa	7	100.88	101.47	114.56	19.04	18.83	19.05	0.00	0.01	0.01
FillP	10	577.79	403.73	254.07	52.88	27.92	26.14	9.42	14.20	16.18
Indigo	10	187.51	175.10	163.52	19.45	19.52	19.60	0.01	0.01	0.03

Run 1: Statistics of TCP BBR

Start at: 2017-12-20 08:40:31

End at: 2017-12-20 08:41:01

Local clock offset: 0.945 ms

Remote clock offset: -0.79 ms

# Below is generated by plot.py at 2017-12-20 14:29:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 558.02 Mbit/s

95th percentile per-packet one-way delay: 23.557 ms

Loss rate: 19.72%

-- Flow 1:

Average throughput: 307.70 Mbit/s

95th percentile per-packet one-way delay: 24.222 ms

Loss rate: 18.84%

-- Flow 2:

Average throughput: 252.52 Mbit/s

95th percentile per-packet one-way delay: 22.081 ms

Loss rate: 21.46%

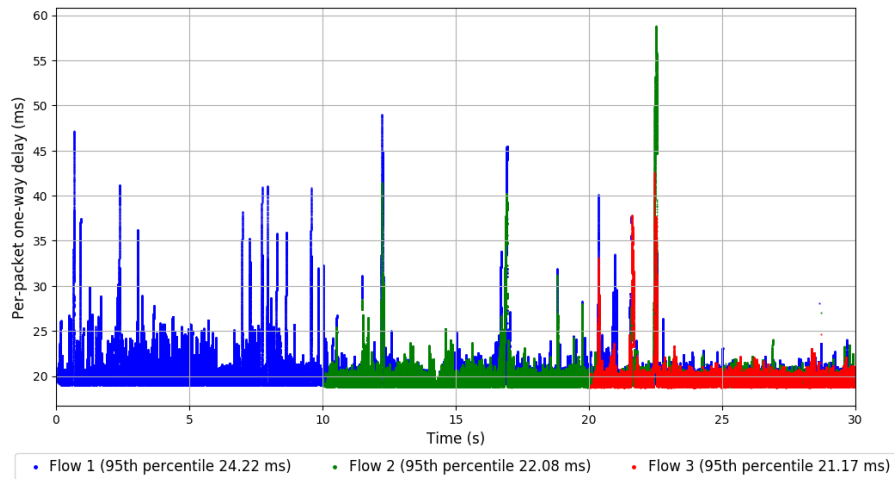
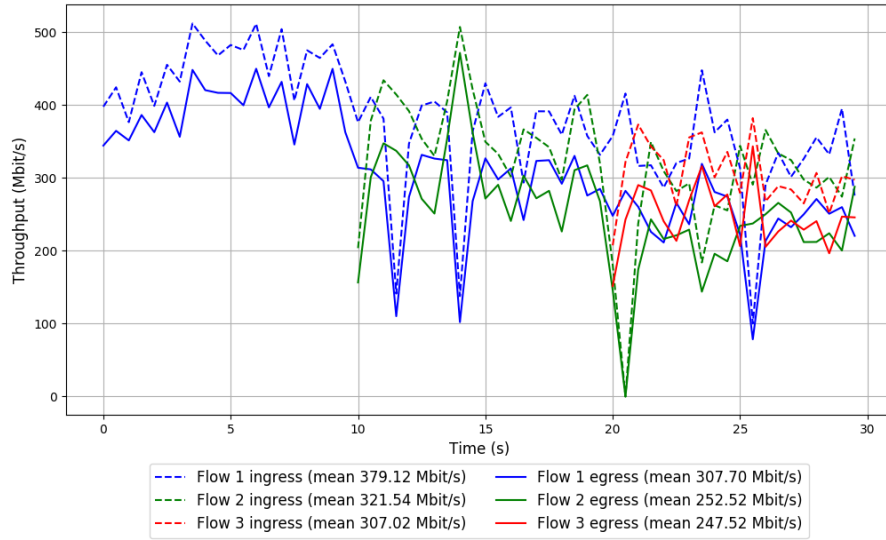
-- Flow 3:

Average throughput: 247.52 Mbit/s

95th percentile per-packet one-way delay: 21.167 ms

Loss rate: 19.37%

### Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-12-20 09:02:10  
End at: 2017-12-20 09:02:40  
Local clock offset: 0.93 ms  
Remote clock offset: -0.749 ms

# Below is generated by plot.py at 2017-12-20 14:30:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 565.70 Mbit/s  
95th percentile per-packet one-way delay: 22.589 ms  
Loss rate: 17.69%

-- Flow 1:

Average throughput: 303.86 Mbit/s  
95th percentile per-packet one-way delay: 23.504 ms  
Loss rate: 14.41%

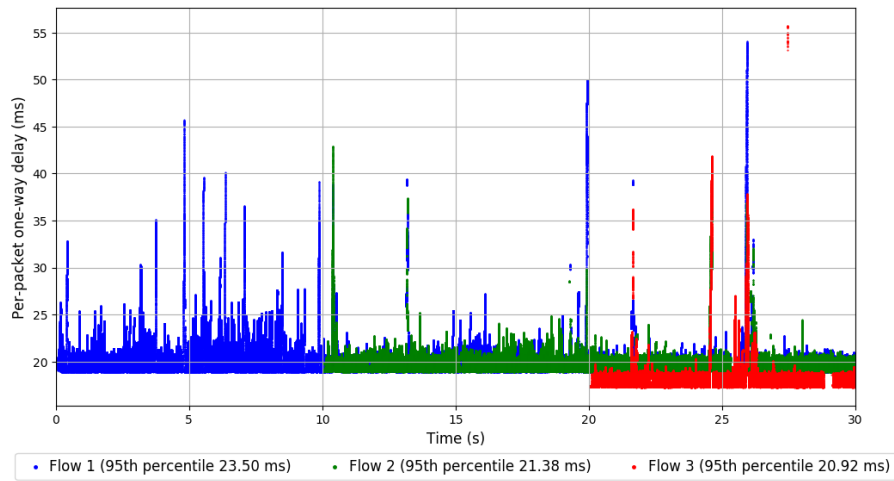
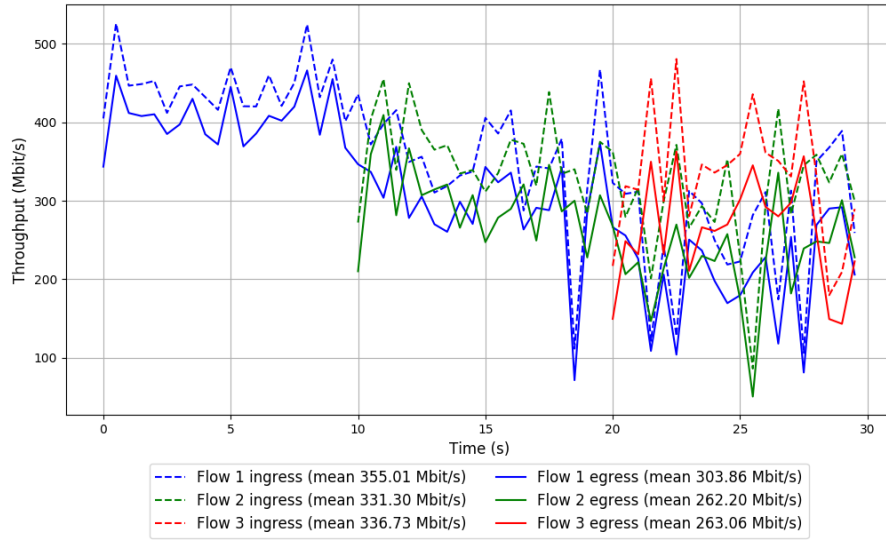
-- Flow 2:

Average throughput: 262.20 Mbit/s  
95th percentile per-packet one-way delay: 21.375 ms  
Loss rate: 20.86%

-- Flow 3:

Average throughput: 263.06 Mbit/s  
95th percentile per-packet one-way delay: 20.919 ms  
Loss rate: 21.88%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-12-20 09:24:00

End at: 2017-12-20 09:24:30

Local clock offset: 0.911 ms

Remote clock offset: -0.97 ms

# Below is generated by plot.py at 2017-12-20 14:30:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 558.28 Mbit/s

95th percentile per-packet one-way delay: 23.724 ms

Loss rate: 17.50%

-- Flow 1:

Average throughput: 327.73 Mbit/s

95th percentile per-packet one-way delay: 24.252 ms

Loss rate: 14.95%

-- Flow 2:

Average throughput: 235.32 Mbit/s

95th percentile per-packet one-way delay: 22.159 ms

Loss rate: 19.39%

-- Flow 3:

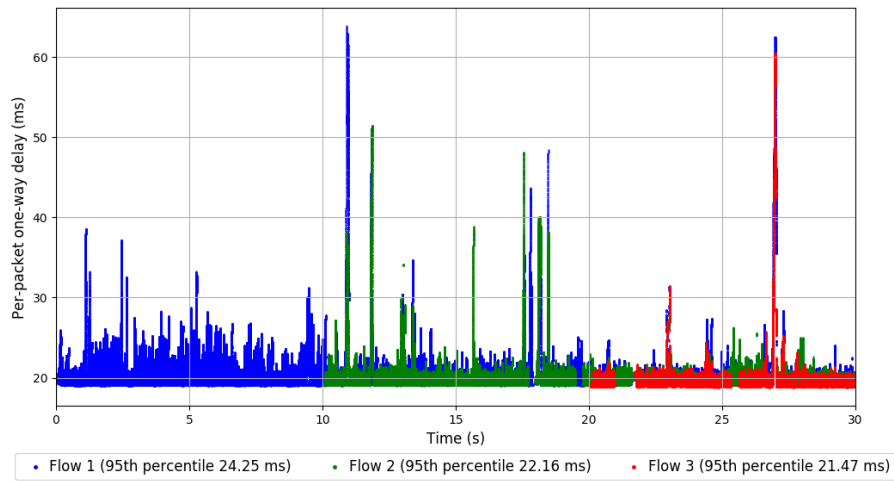
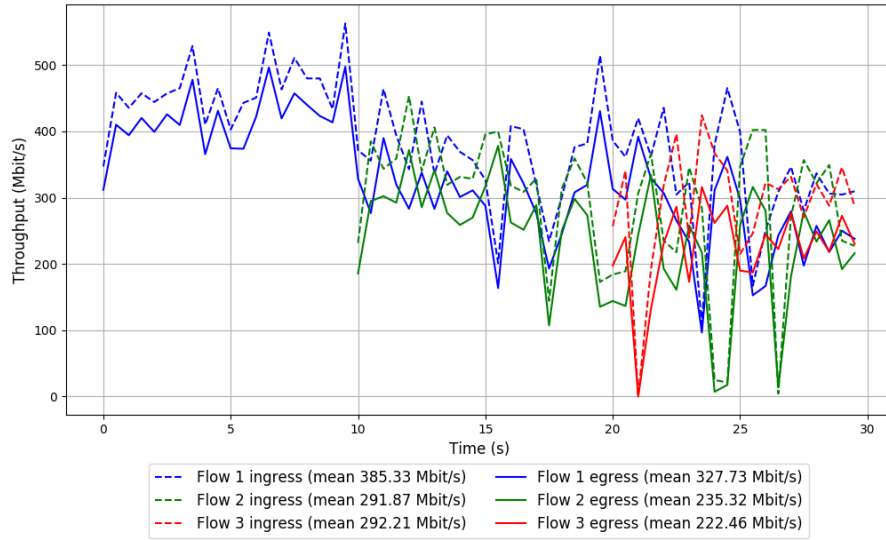
Average throughput: 222.46 Mbit/s

95th percentile per-packet one-way delay: 21.470 ms

Loss rate: 23.88%



### Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-12-20 09:45:47  
End at: 2017-12-20 09:46:17  
Local clock offset: 0.866 ms  
Remote clock offset: -0.959 ms

# Below is generated by plot.py at 2017-12-20 14:30:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 575.42 Mbit/s  
95th percentile per-packet one-way delay: 23.434 ms  
Loss rate: 19.93%

-- Flow 1:

Average throughput: 314.94 Mbit/s  
95th percentile per-packet one-way delay: 24.419 ms  
Loss rate: 16.81%

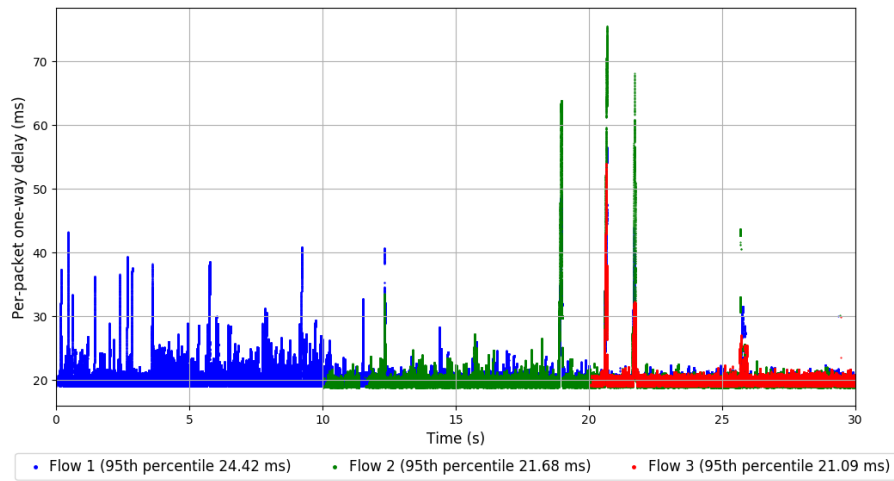
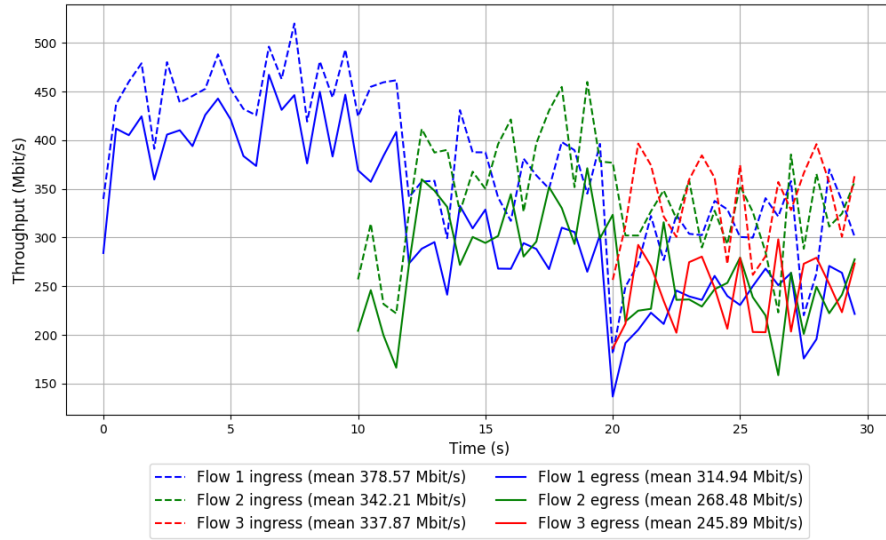
-- Flow 2:

Average throughput: 268.48 Mbit/s  
95th percentile per-packet one-way delay: 21.679 ms  
Loss rate: 21.54%

-- Flow 3:

Average throughput: 245.89 Mbit/s  
95th percentile per-packet one-way delay: 21.090 ms  
Loss rate: 27.22%

### Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-12-20 10:07:31  
End at: 2017-12-20 10:08:01  
Local clock offset: 0.567 ms  
Remote clock offset: -1.094 ms

# Below is generated by plot.py at 2017-12-20 14:30:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 577.94 Mbit/s  
95th percentile per-packet one-way delay: 23.026 ms  
Loss rate: 19.70%

-- Flow 1:

Average throughput: 313.47 Mbit/s  
95th percentile per-packet one-way delay: 23.821 ms  
Loss rate: 18.36%

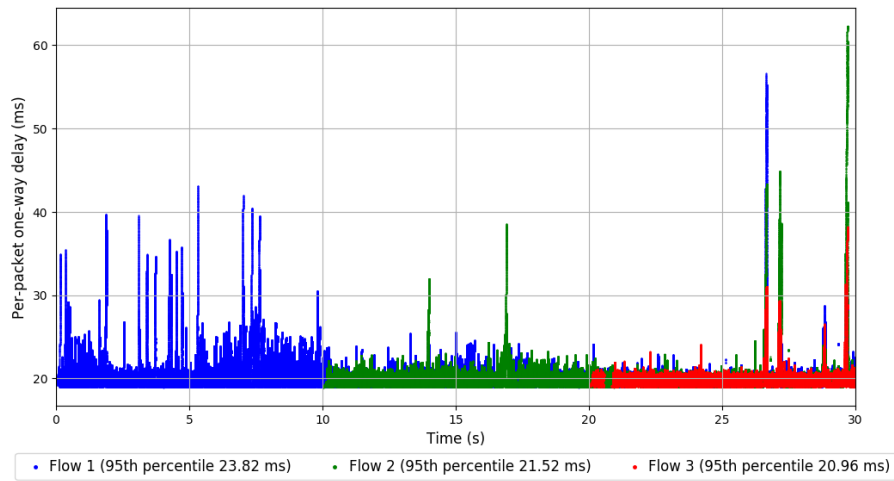
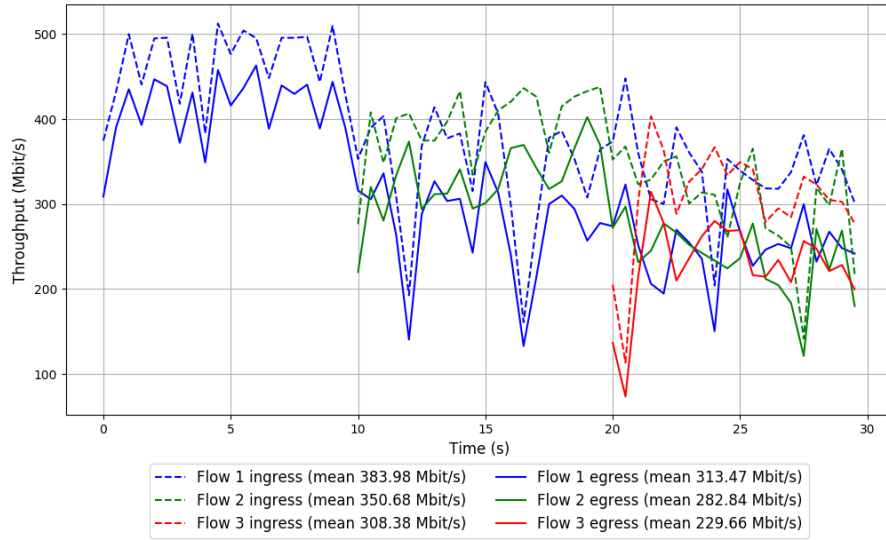
-- Flow 2:

Average throughput: 282.84 Mbit/s  
95th percentile per-packet one-way delay: 21.523 ms  
Loss rate: 19.34%

-- Flow 3:

Average throughput: 229.66 Mbit/s  
95th percentile per-packet one-way delay: 20.958 ms  
Loss rate: 25.52%

### Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-12-20 10:29:24  
End at: 2017-12-20 10:29:54  
Local clock offset: 0.253 ms  
Remote clock offset: -1.324 ms

# Below is generated by plot.py at 2017-12-20 14:30:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 565.92 Mbit/s  
95th percentile per-packet one-way delay: 22.979 ms  
Loss rate: 19.06%

-- Flow 1:

Average throughput: 308.87 Mbit/s  
95th percentile per-packet one-way delay: 23.523 ms  
Loss rate: 17.12%

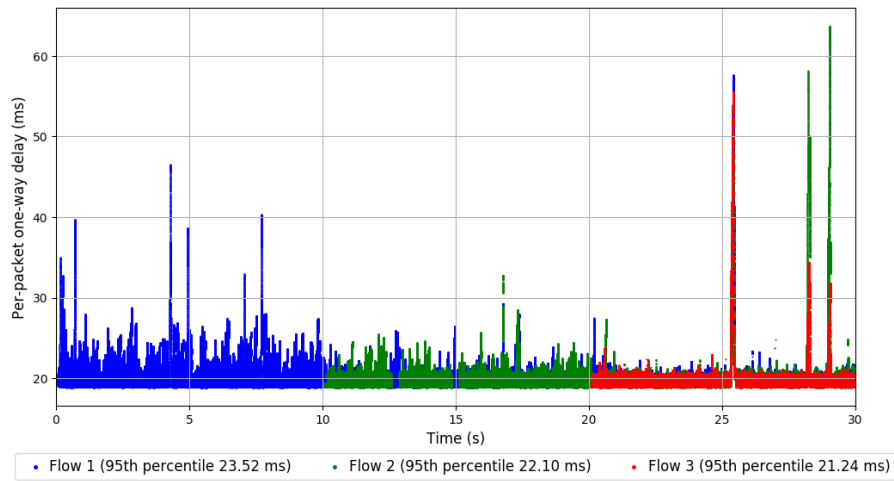
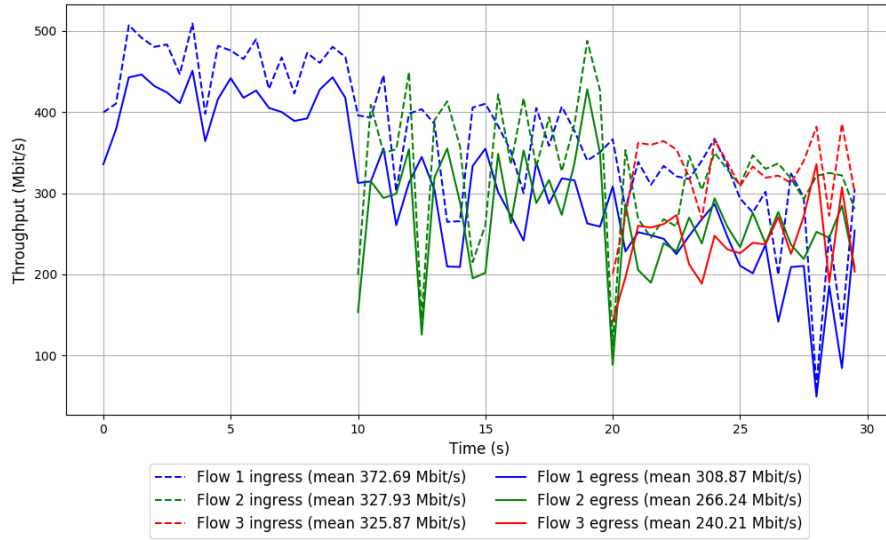
-- Flow 2:

Average throughput: 266.24 Mbit/s  
95th percentile per-packet one-way delay: 22.103 ms  
Loss rate: 18.80%

-- Flow 3:

Average throughput: 240.21 Mbit/s  
95th percentile per-packet one-way delay: 21.244 ms  
Loss rate: 26.29%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-12-20 10:51:25  
End at: 2017-12-20 10:51:55  
Local clock offset: 0.074 ms  
Remote clock offset: -1.043 ms

# Below is generated by plot.py at 2017-12-20 14:30:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 578.64 Mbit/s  
95th percentile per-packet one-way delay: 23.047 ms  
Loss rate: 17.85%

-- Flow 1:

Average throughput: 317.98 Mbit/s  
95th percentile per-packet one-way delay: 23.740 ms  
Loss rate: 15.56%

-- Flow 2:

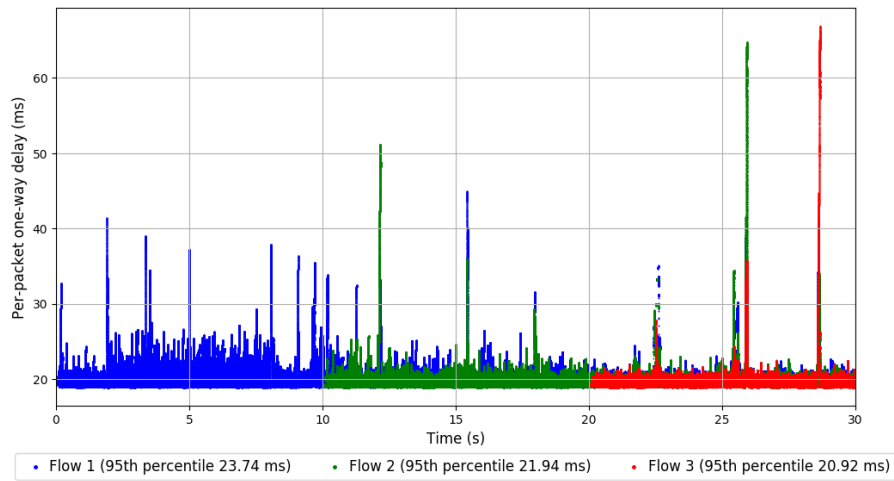
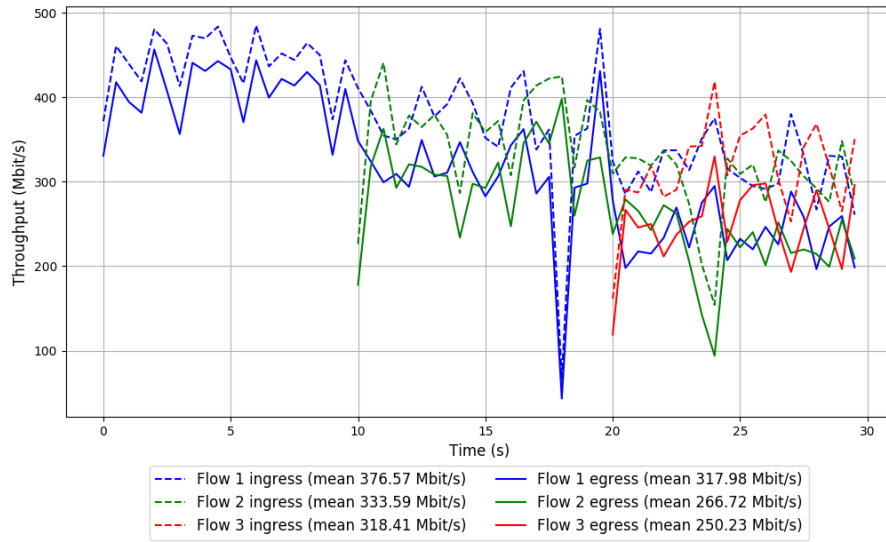
Average throughput: 266.72 Mbit/s  
95th percentile per-packet one-way delay: 21.940 ms  
Loss rate: 20.04%

-- Flow 3:

Average throughput: 250.23 Mbit/s  
95th percentile per-packet one-way delay: 20.917 ms  
Loss rate: 21.40%



### Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-12-20 11:13:15  
End at: 2017-12-20 11:13:45  
Local clock offset: -0.083 ms  
Remote clock offset: -1.194 ms

# Below is generated by plot.py at 2017-12-20 14:30:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 567.51 Mbit/s  
95th percentile per-packet one-way delay: 22.289 ms  
Loss rate: 17.74%

-- Flow 1:

Average throughput: 307.63 Mbit/s  
95th percentile per-packet one-way delay: 22.782 ms  
Loss rate: 15.65%

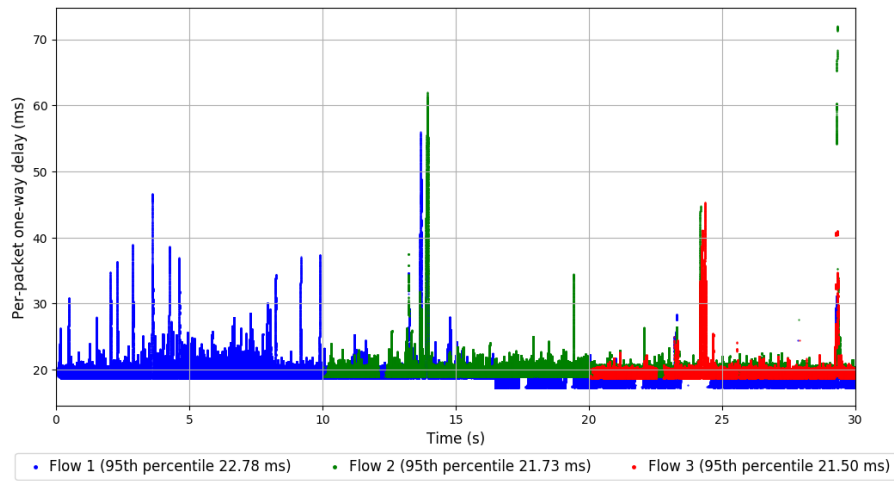
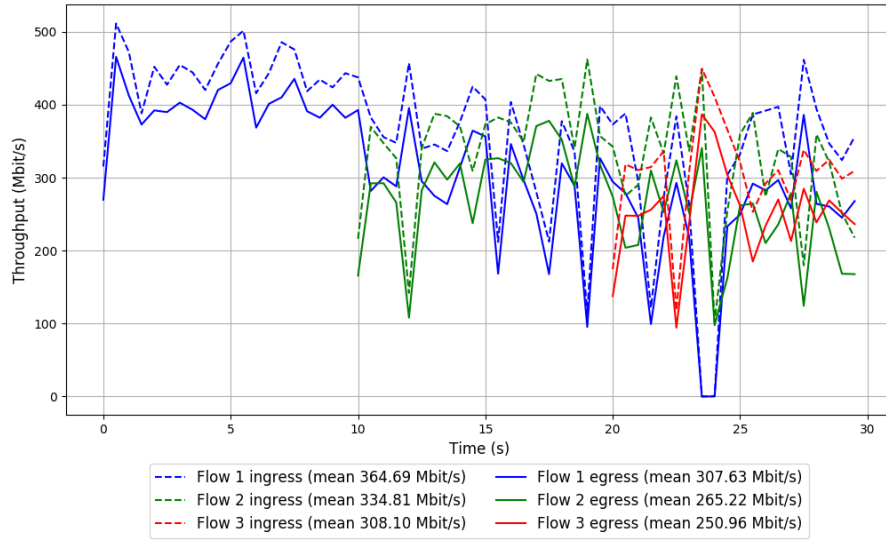
-- Flow 2:

Average throughput: 265.22 Mbit/s  
95th percentile per-packet one-way delay: 21.729 ms  
Loss rate: 20.78%

-- Flow 3:

Average throughput: 250.96 Mbit/s  
95th percentile per-packet one-way delay: 21.501 ms  
Loss rate: 18.56%

### Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-12-20 11:35:02

End at: 2017-12-20 11:35:32

Local clock offset: -0.15 ms

Remote clock offset: -1.61 ms

# Below is generated by plot.py at 2017-12-20 14:37:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 566.02 Mbit/s

95th percentile per-packet one-way delay: 22.931 ms

Loss rate: 18.09%

-- Flow 1:

Average throughput: 298.84 Mbit/s

95th percentile per-packet one-way delay: 24.012 ms

Loss rate: 16.83%

-- Flow 2:

Average throughput: 273.34 Mbit/s

95th percentile per-packet one-way delay: 21.949 ms

Loss rate: 19.29%

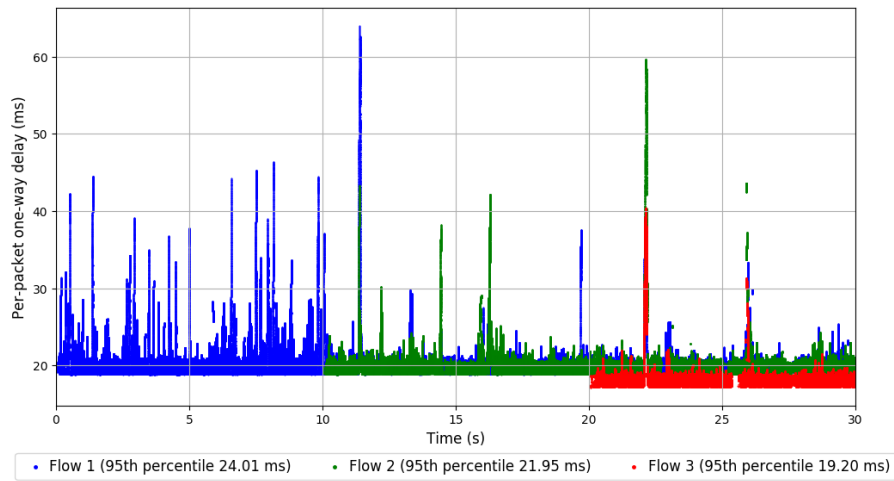
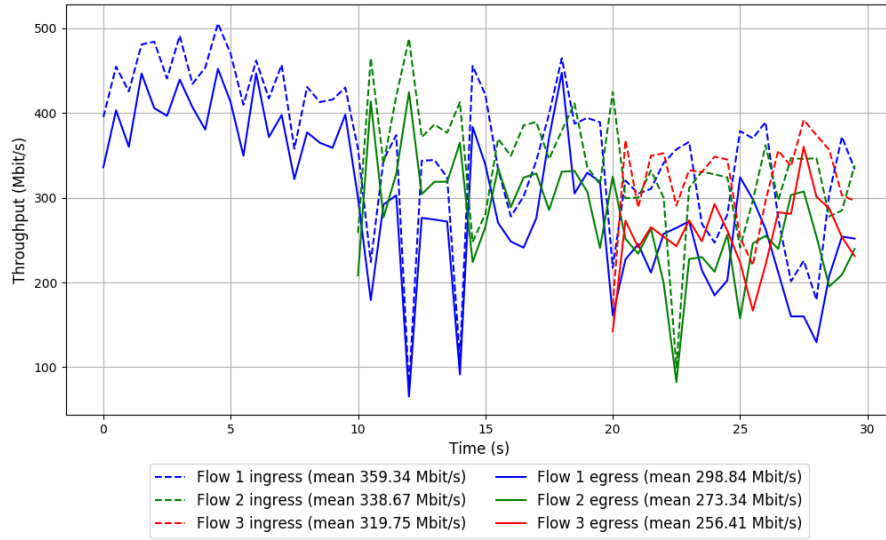
-- Flow 3:

Average throughput: 256.41 Mbit/s

95th percentile per-packet one-way delay: 19.199 ms

Loss rate: 19.80%

### Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-12-20 11:57:08  
End at: 2017-12-20 11:57:38  
Local clock offset: -0.185 ms  
Remote clock offset: -2.066 ms

# Below is generated by plot.py at 2017-12-20 14:38:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 568.10 Mbit/s  
95th percentile per-packet one-way delay: 22.201 ms  
Loss rate: 19.85%

-- Flow 1:

Average throughput: 310.94 Mbit/s  
95th percentile per-packet one-way delay: 23.012 ms  
Loss rate: 17.06%

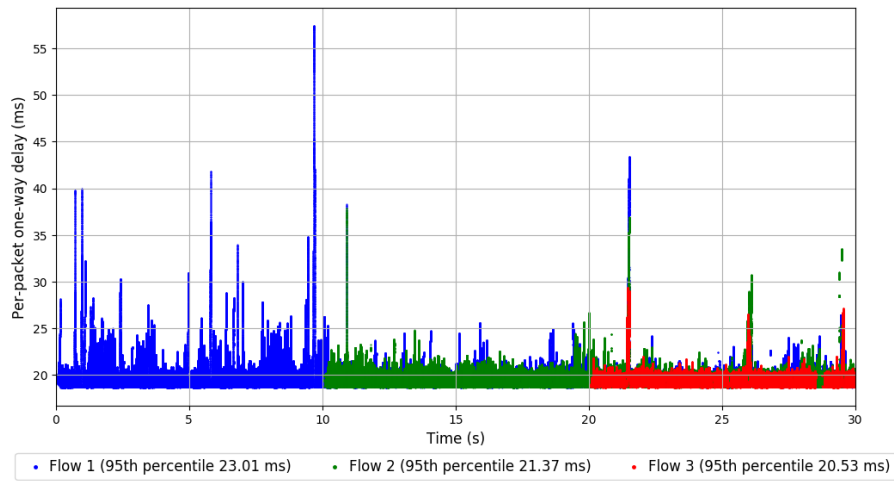
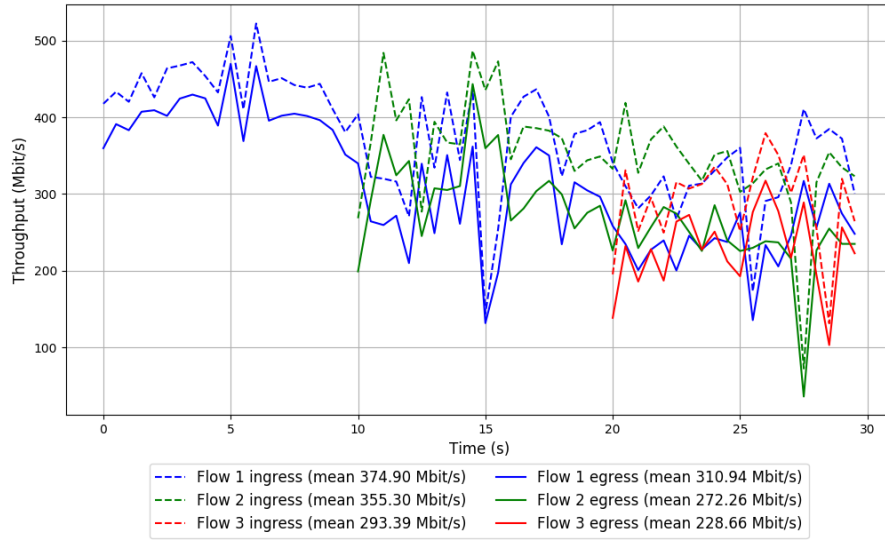
-- Flow 2:

Average throughput: 272.26 Mbit/s  
95th percentile per-packet one-way delay: 21.369 ms  
Loss rate: 23.37%

-- Flow 3:

Average throughput: 228.66 Mbit/s  
95th percentile per-packet one-way delay: 20.534 ms  
Loss rate: 22.06%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-12-20 08:43:26

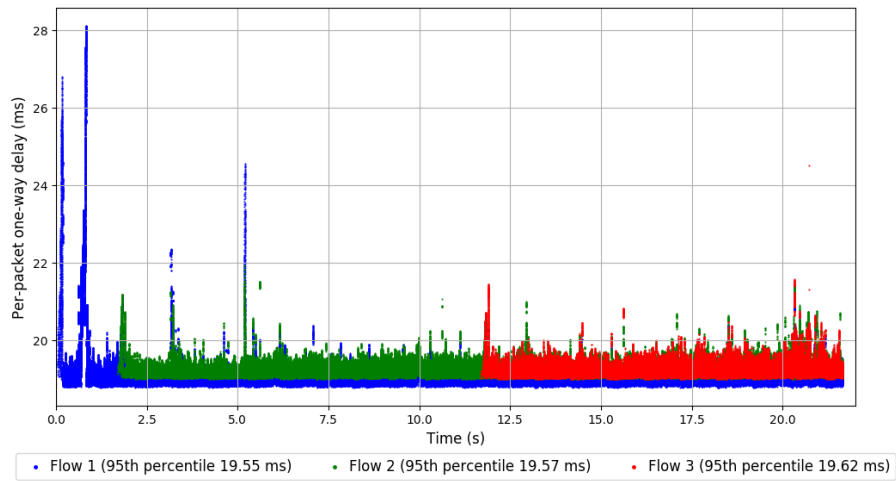
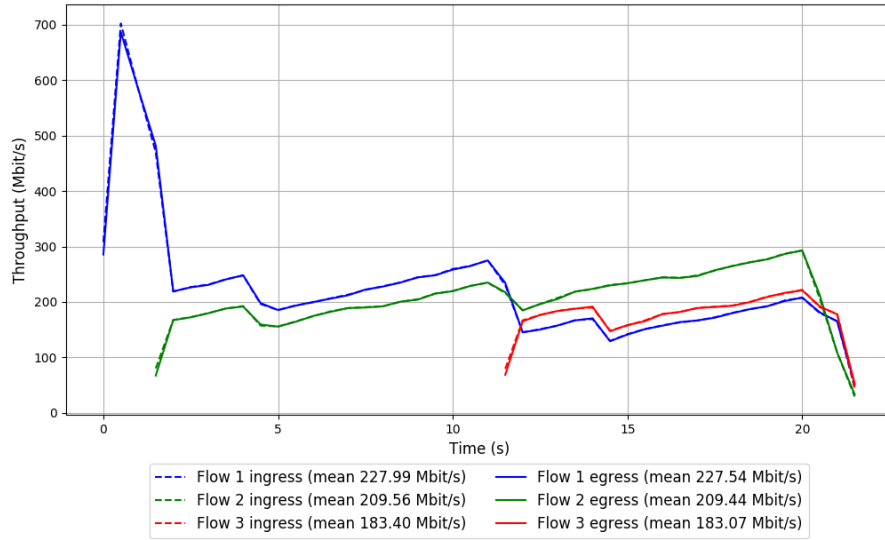
End at: 2017-12-20 08:43:56

Local clock offset: 0.93 ms

Remote clock offset: -0.726 ms



# Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-12-20 09:05:04  
End at: 2017-12-20 09:05:34  
Local clock offset: 0.938 ms  
Remote clock offset: -0.757 ms

# Below is generated by plot.py at 2017-12-20 14:38:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 560.65 Mbit/s  
95th percentile per-packet one-way delay: 19.367 ms  
Loss rate: 0.08%

-- Flow 1:

Average throughput: 354.00 Mbit/s  
95th percentile per-packet one-way delay: 19.378 ms  
Loss rate: 0.07%

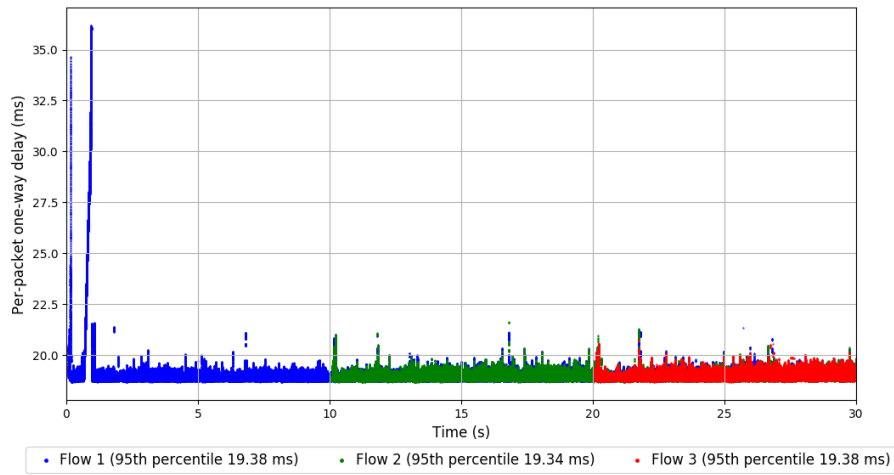
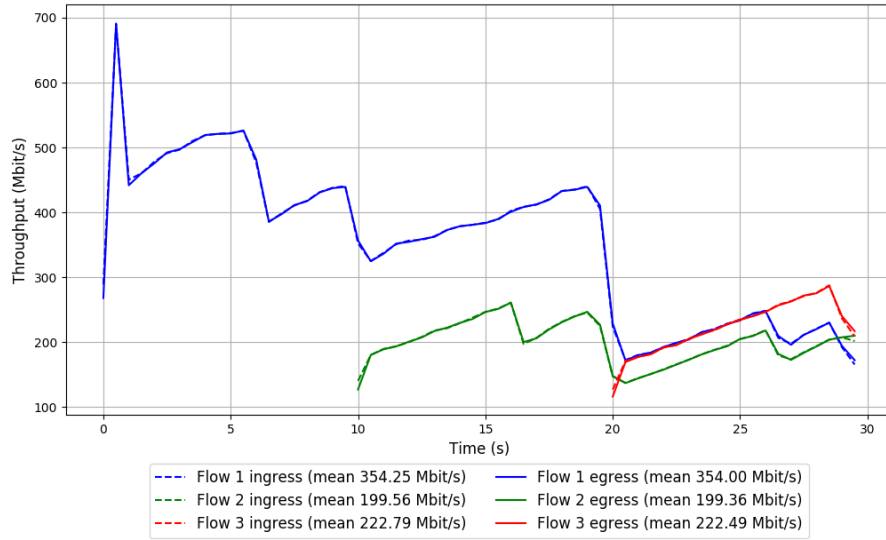
-- Flow 2:

Average throughput: 199.36 Mbit/s  
95th percentile per-packet one-way delay: 19.342 ms  
Loss rate: 0.10%

-- Flow 3:

Average throughput: 222.49 Mbit/s  
95th percentile per-packet one-way delay: 19.379 ms  
Loss rate: 0.13%

## Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-12-20 09:26:54  
End at: 2017-12-20 09:27:24  
Local clock offset: 1.019 ms  
Remote clock offset: -0.951 ms

# Below is generated by plot.py at 2017-12-20 14:38:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 456.87 Mbit/s  
95th percentile per-packet one-way delay: 19.260 ms  
Loss rate: 0.04%

-- Flow 1:

Average throughput: 297.03 Mbit/s  
95th percentile per-packet one-way delay: 17.877 ms  
Loss rate: 0.02%

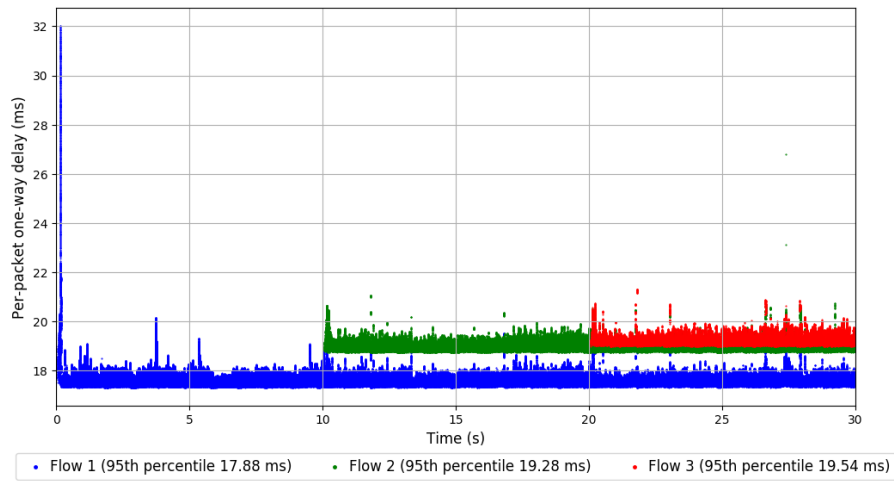
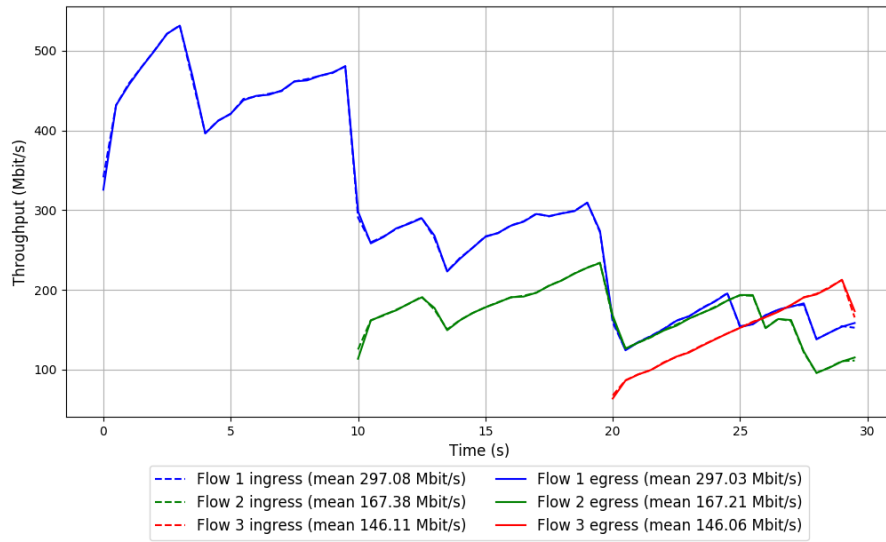
-- Flow 2:

Average throughput: 167.21 Mbit/s  
95th percentile per-packet one-way delay: 19.284 ms  
Loss rate: 0.10%

-- Flow 3:

Average throughput: 146.06 Mbit/s  
95th percentile per-packet one-way delay: 19.536 ms  
Loss rate: 0.03%

### Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

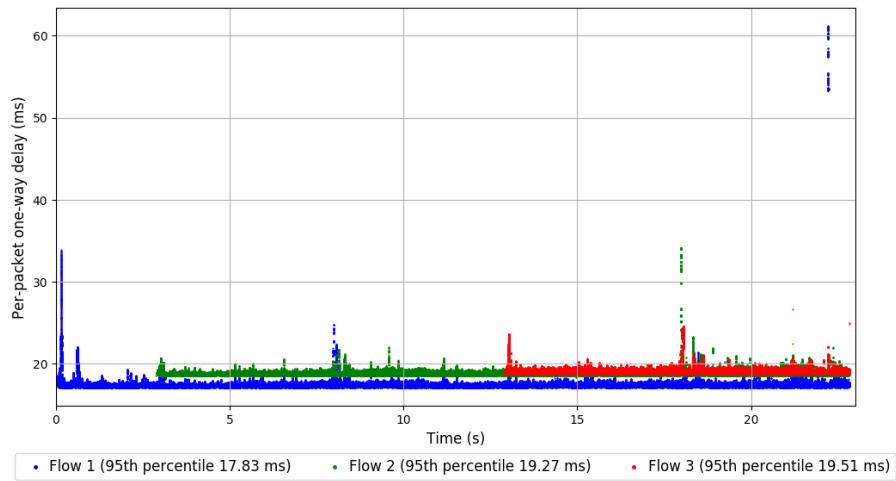
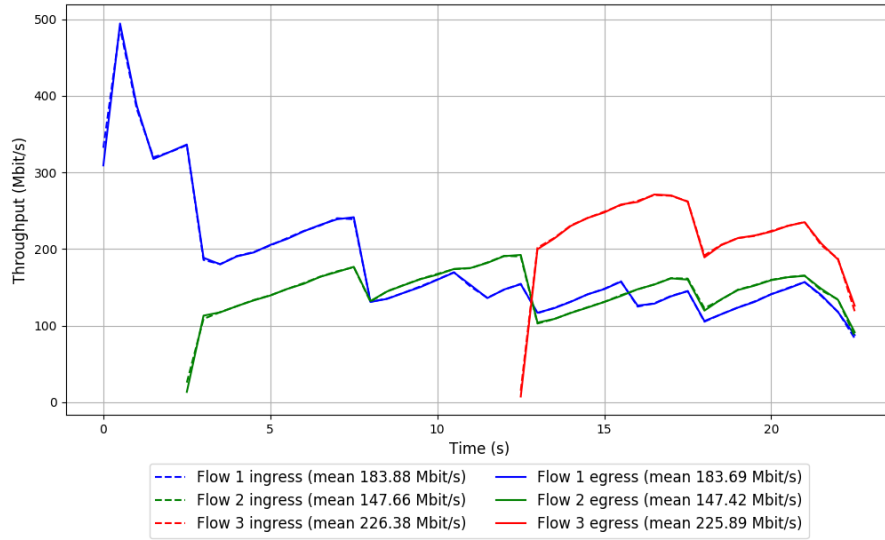
Start at: 2017-12-20 09:48:43

End at: 2017-12-20 09:49:13

Local clock offset: 0.954 ms

Remote clock offset: -1.05 ms

### Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-12-20 10:10:26  
End at: 2017-12-20 10:10:56  
Local clock offset: 0.534 ms  
Remote clock offset: -1.188 ms

# Below is generated by plot.py at 2017-12-20 14:38:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 456.82 Mbit/s  
95th percentile per-packet one-way delay: 19.541 ms  
Loss rate: 0.11%

-- Flow 1:

Average throughput: 226.88 Mbit/s  
95th percentile per-packet one-way delay: 19.693 ms  
Loss rate: 0.11%

-- Flow 2:

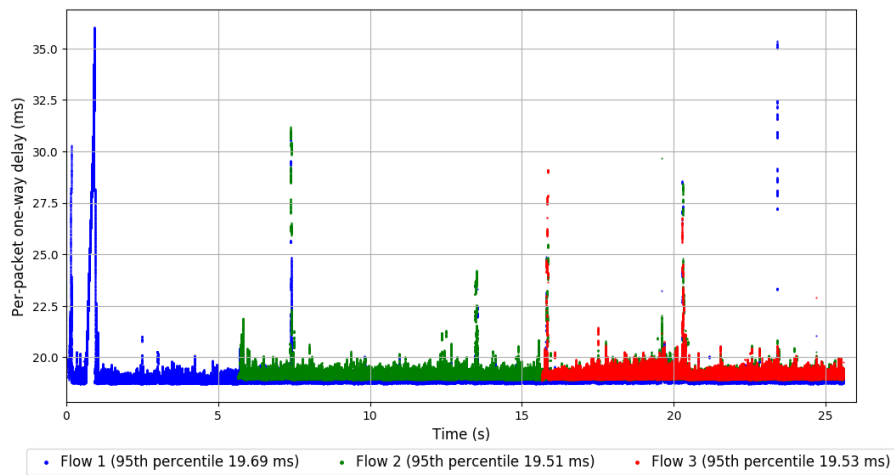
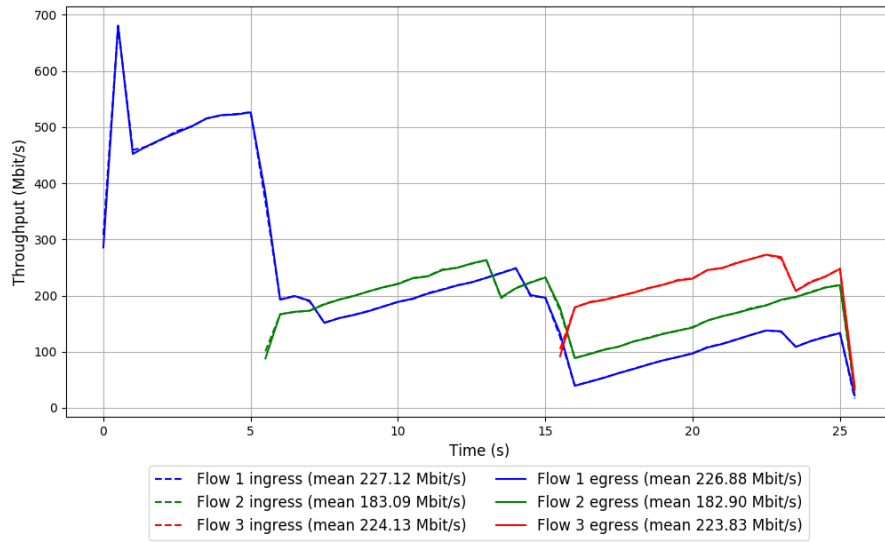
Average throughput: 182.90 Mbit/s  
95th percentile per-packet one-way delay: 19.513 ms  
Loss rate: 0.10%

-- Flow 3:

Average throughput: 223.83 Mbit/s  
95th percentile per-packet one-way delay: 19.528 ms  
Loss rate: 0.13%



### Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-12-20 10:32:18  
End at: 2017-12-20 10:32:48  
Local clock offset: 0.307 ms  
Remote clock offset: -1.237 ms

# Below is generated by plot.py at 2017-12-20 14:38:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 433.12 Mbit/s  
95th percentile per-packet one-way delay: 19.436 ms  
Loss rate: 0.10%

-- Flow 1:

Average throughput: 254.13 Mbit/s  
95th percentile per-packet one-way delay: 19.467 ms  
Loss rate: 0.09%

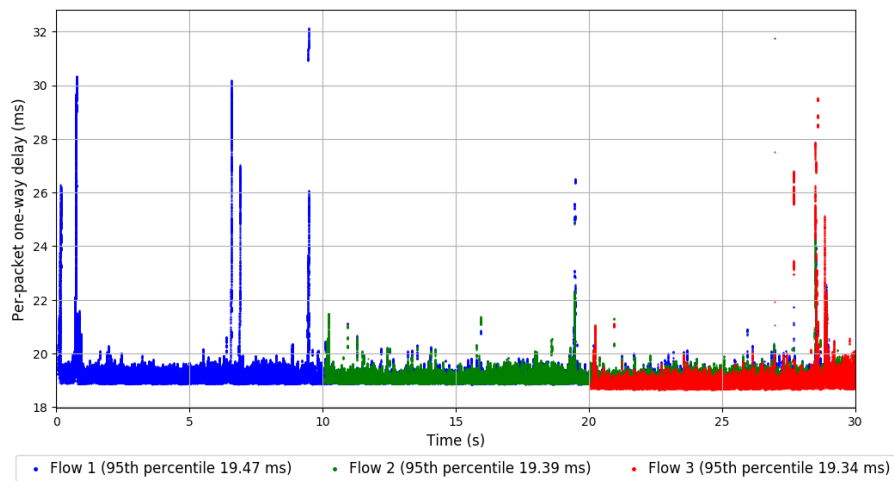
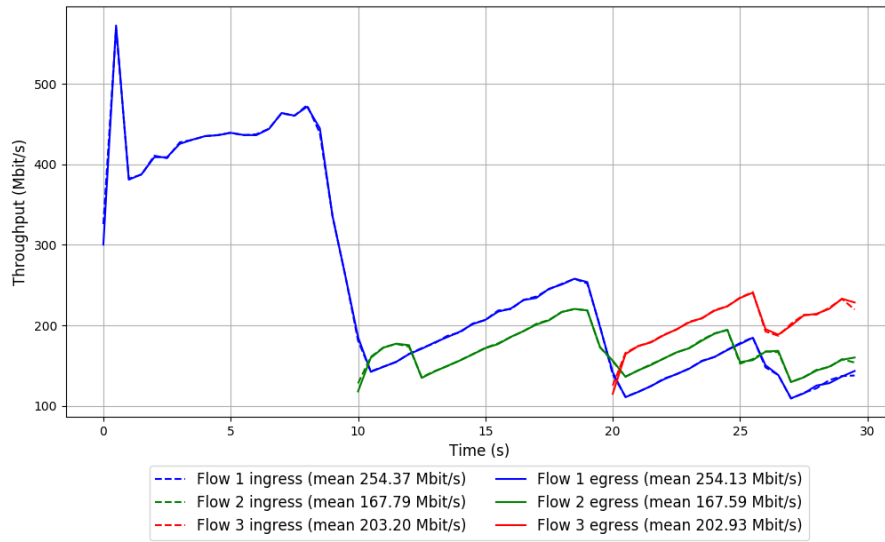
-- Flow 2:

Average throughput: 167.59 Mbit/s  
95th percentile per-packet one-way delay: 19.385 ms  
Loss rate: 0.11%

-- Flow 3:

Average throughput: 202.93 Mbit/s  
95th percentile per-packet one-way delay: 19.339 ms  
Loss rate: 0.13%

### Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

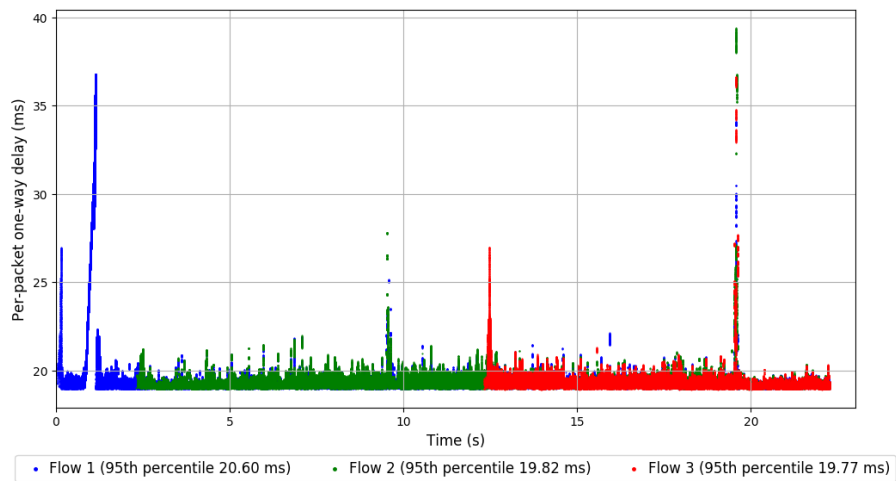
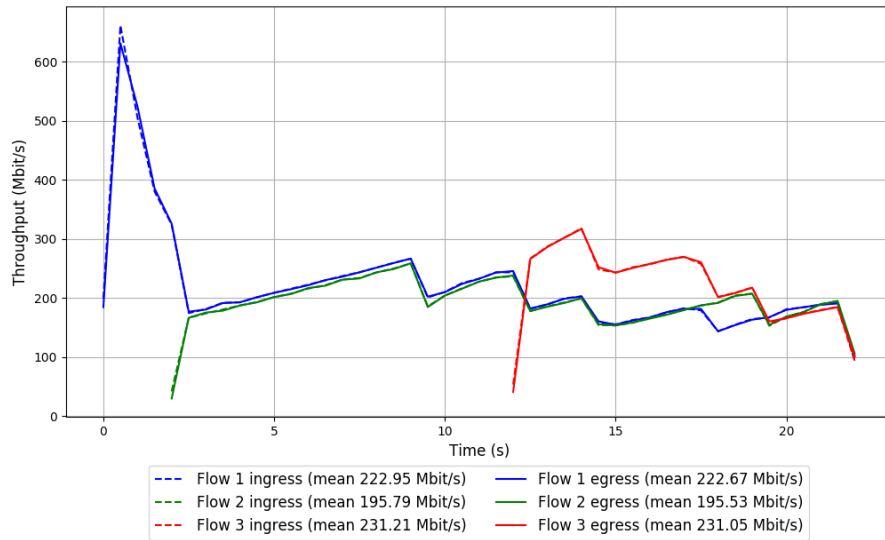
Start at: 2017-12-20 10:54:21

End at: 2017-12-20 10:54:51

Local clock offset: 0.059 ms

Remote clock offset: -1.045 ms

### Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-12-20 11:16:09

End at: 2017-12-20 11:16:39

Local clock offset: 0.019 ms

Remote clock offset: -1.2 ms

# Below is generated by plot.py at 2017-12-20 14:40:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 404.17 Mbit/s

95th percentile per-packet one-way delay: 19.099 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 240.01 Mbit/s

95th percentile per-packet one-way delay: 19.176 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 176.17 Mbit/s

95th percentile per-packet one-way delay: 19.041 ms

Loss rate: 0.09%

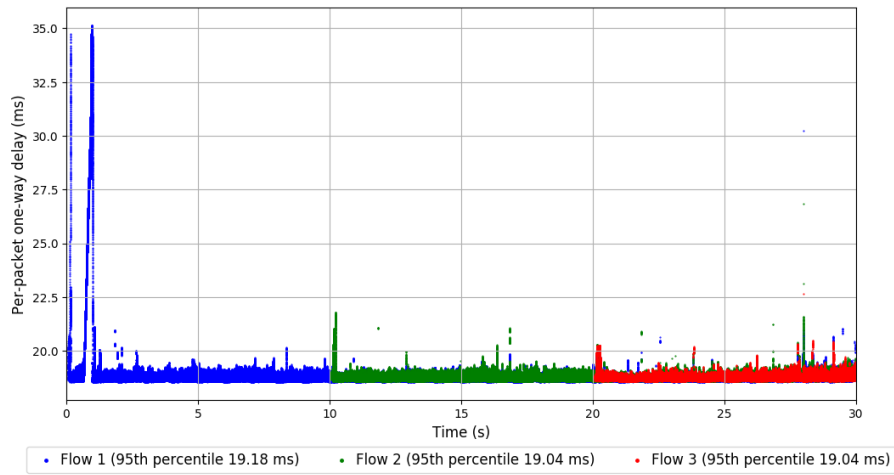
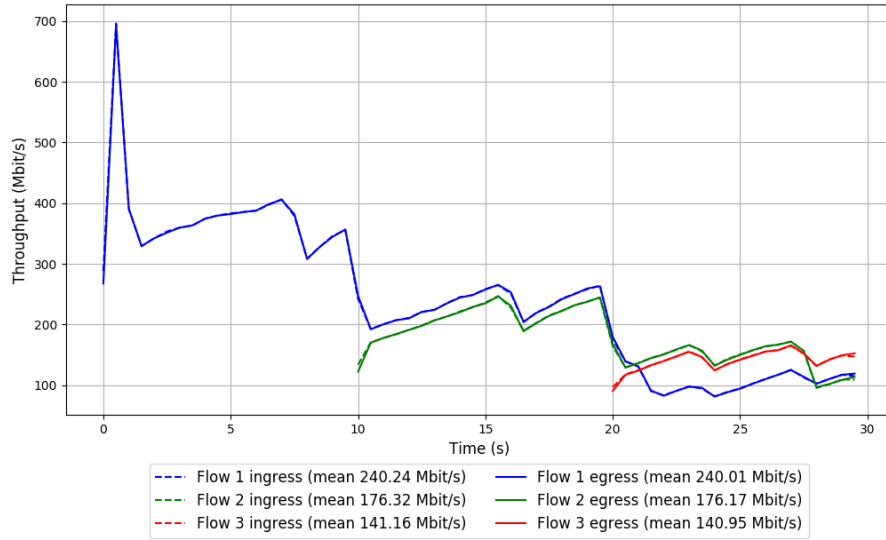
-- Flow 3:

Average throughput: 140.95 Mbit/s

95th percentile per-packet one-way delay: 19.039 ms

Loss rate: 0.14%

### Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-12-20 11:37:57  
End at: 2017-12-20 11:38:27  
Local clock offset: -0.225 ms  
Remote clock offset: -1.686 ms

# Below is generated by plot.py at 2017-12-20 14:40:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 451.60 Mbit/s  
95th percentile per-packet one-way delay: 19.384 ms  
Loss rate: 0.07%

-- Flow 1:

Average throughput: 231.29 Mbit/s  
95th percentile per-packet one-way delay: 19.316 ms  
Loss rate: 0.04%

-- Flow 2:

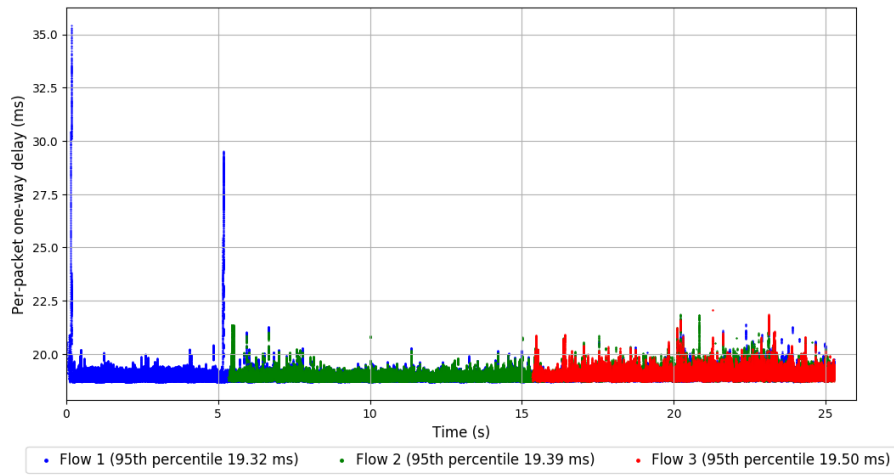
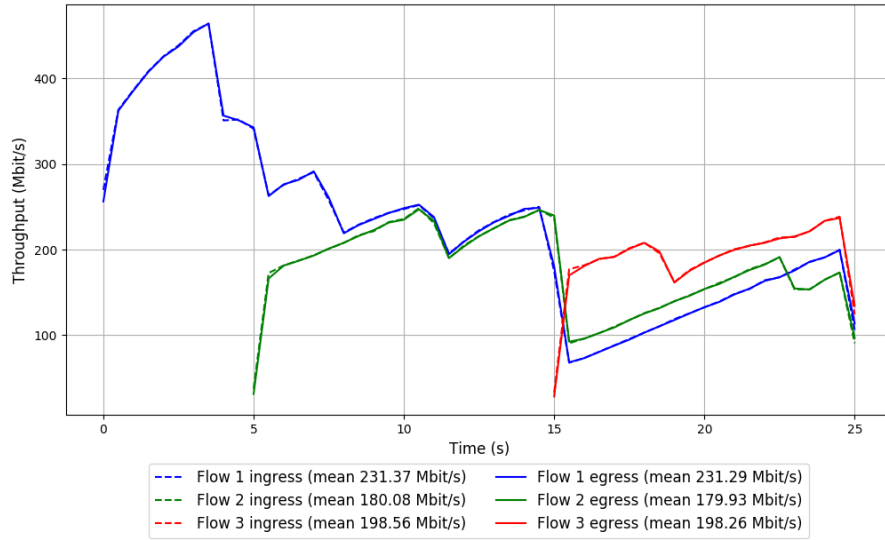
Average throughput: 179.93 Mbit/s  
95th percentile per-packet one-way delay: 19.393 ms  
Loss rate: 0.10%

-- Flow 3:

Average throughput: 198.26 Mbit/s  
95th percentile per-packet one-way delay: 19.502 ms  
Loss rate: 0.15%



### Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

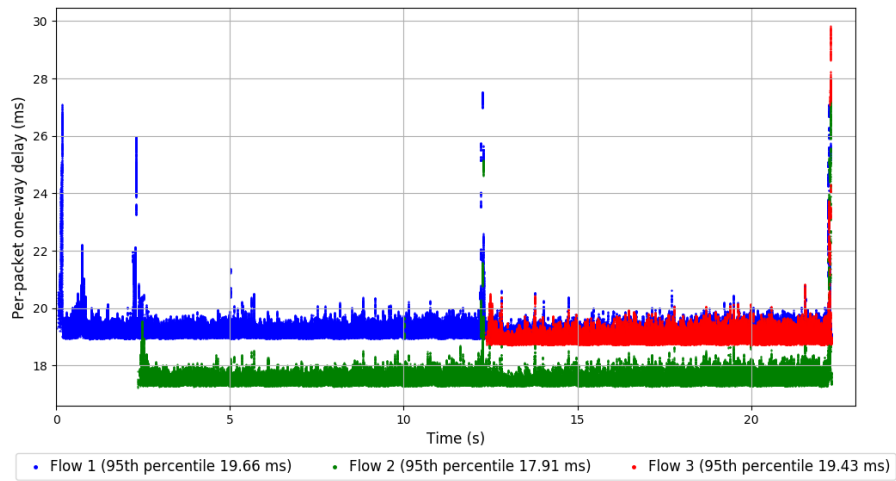
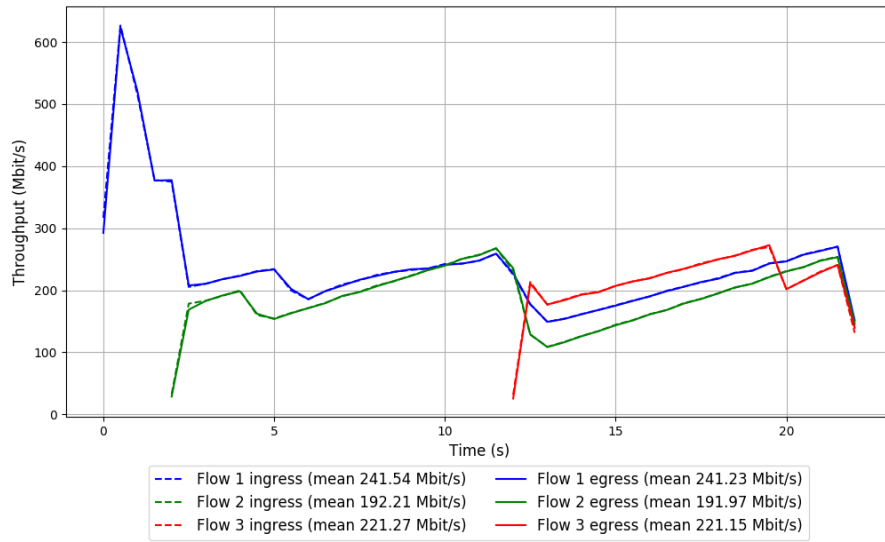
Start at: 2017-12-20 12:00:03

End at: 2017-12-20 12:00:33

Local clock offset: -0.196 ms

Remote clock offset: -2.089 ms

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of LEDBAT

Start at: 2017-12-20 08:38:55

End at: 2017-12-20 08:39:25

Local clock offset: 1.013 ms

Remote clock offset: -0.78 ms

# Below is generated by plot.py at 2017-12-20 14:42:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 466.73 Mbit/s

95th percentile per-packet one-way delay: 19.571 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 273.24 Mbit/s

95th percentile per-packet one-way delay: 19.608 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 208.63 Mbit/s

95th percentile per-packet one-way delay: 19.629 ms

Loss rate: 0.03%

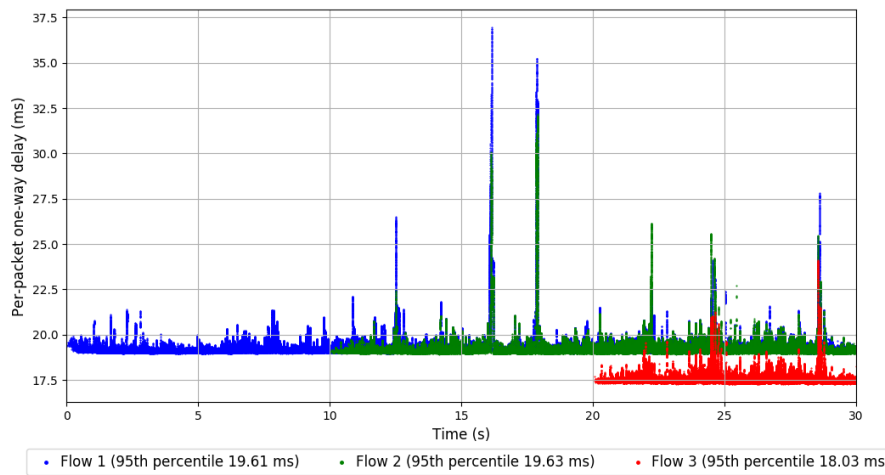
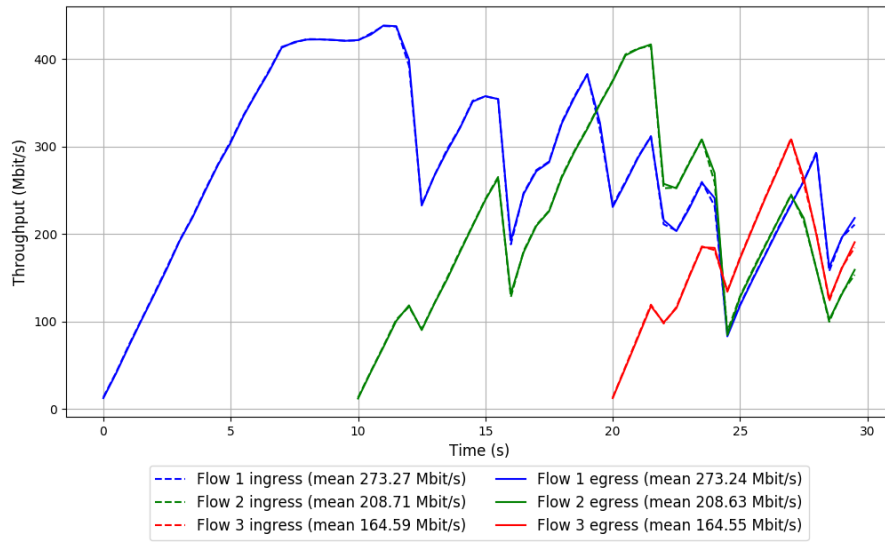
-- Flow 3:

Average throughput: 164.55 Mbit/s

95th percentile per-packet one-way delay: 18.031 ms

Loss rate: 0.01%

# Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

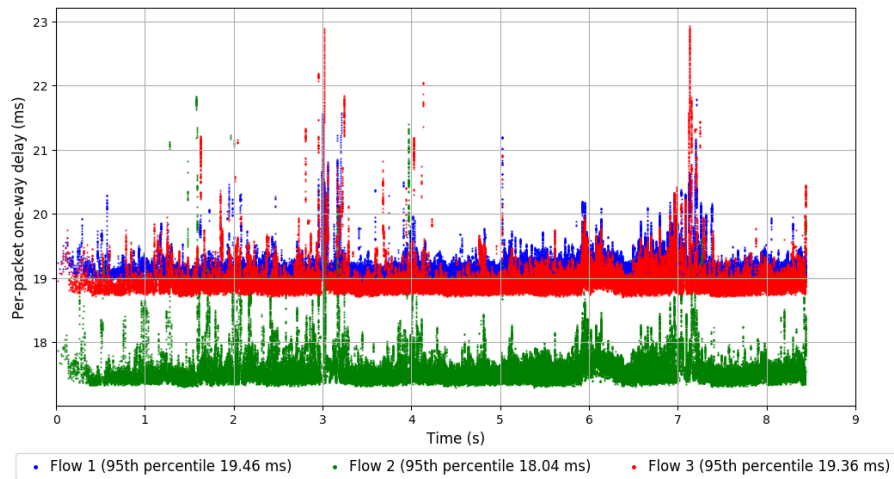
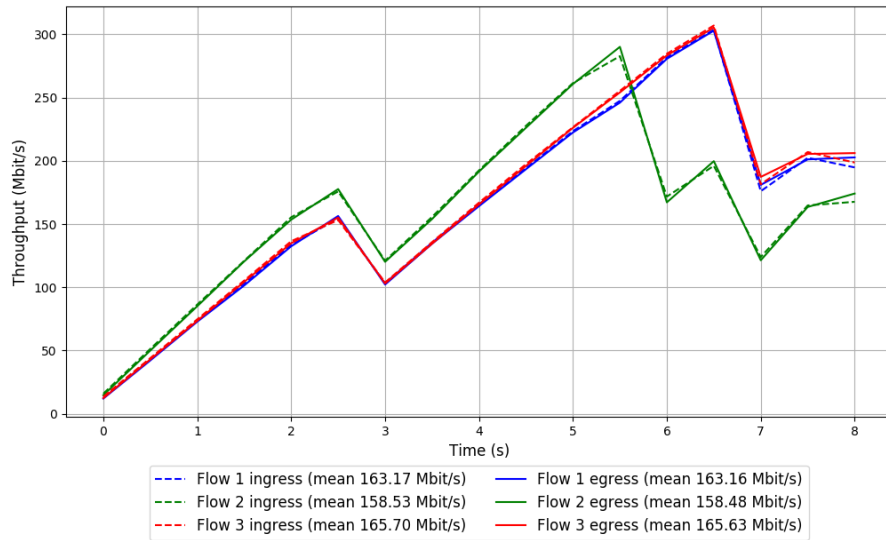
Start at: 2017-12-20 09:00:51

End at: 2017-12-20 09:01:21

Local clock offset: 0.921 ms

Remote clock offset: -0.705 ms

## Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-12-20 09:22:42

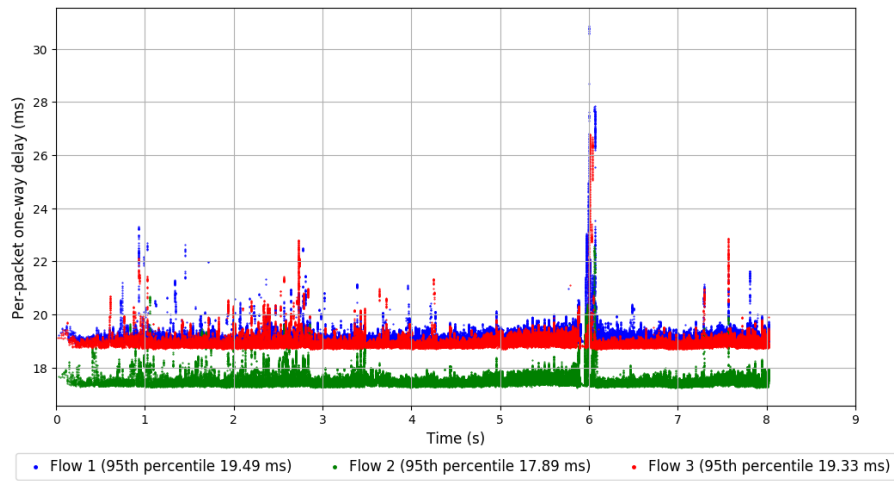
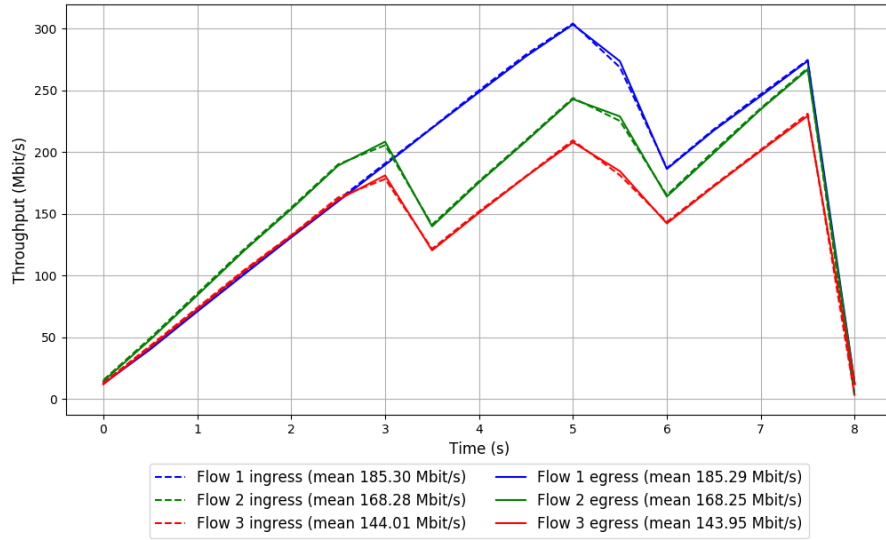
End at: 2017-12-20 09:23:12

Local clock offset: 1.029 ms

Remote clock offset: -0.976 ms



### Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

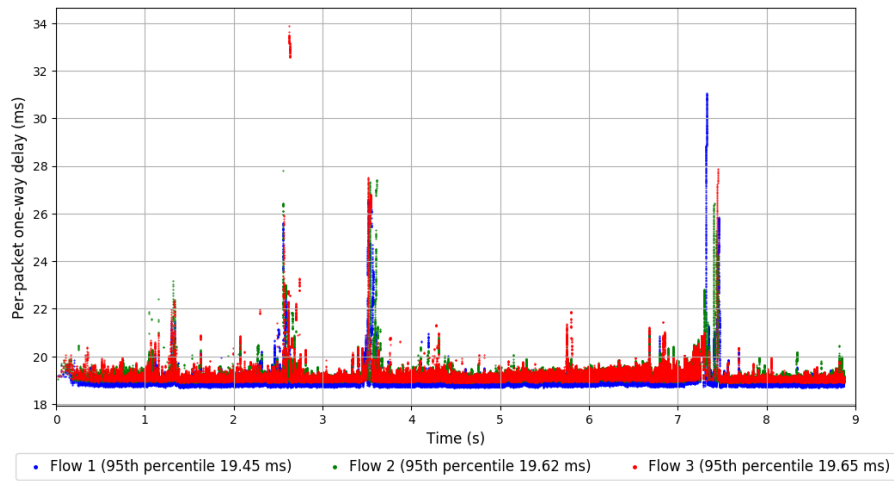
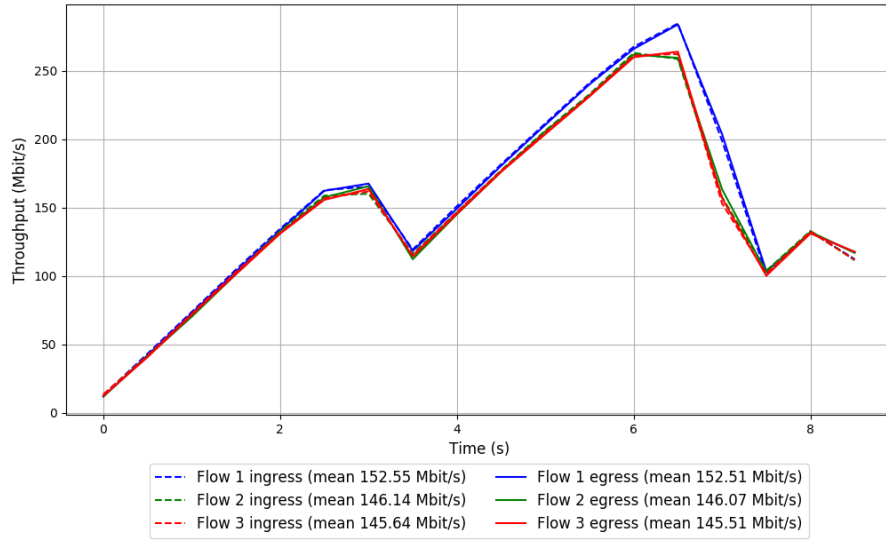
Start at: 2017-12-20 09:44:29

End at: 2017-12-20 09:44:59

Local clock offset: 0.85 ms

Remote clock offset: -1.086 ms

### Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

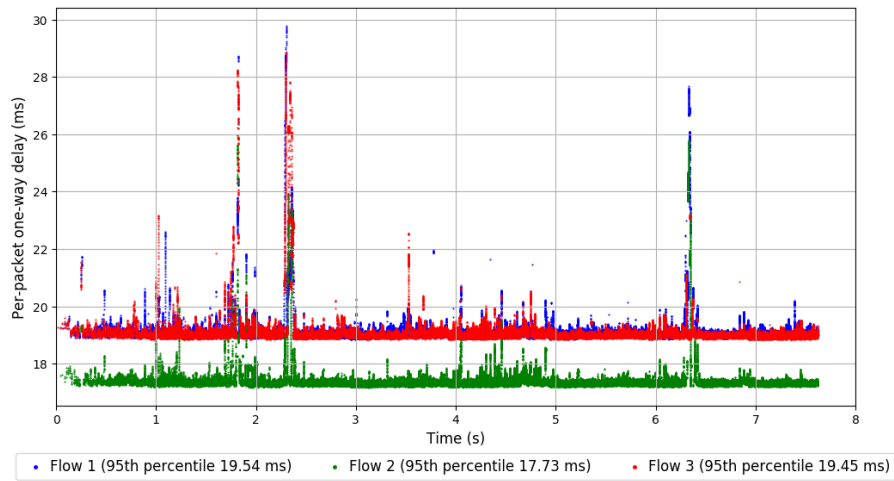
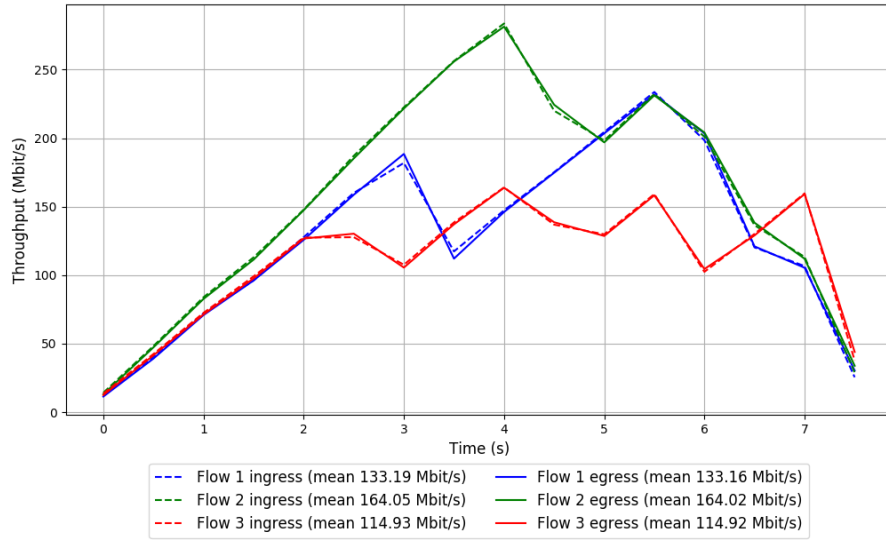
Start at: 2017-12-20 10:06:15

End at: 2017-12-20 10:06:45

Local clock offset: 0.711 ms

Remote clock offset: -1.07 ms

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

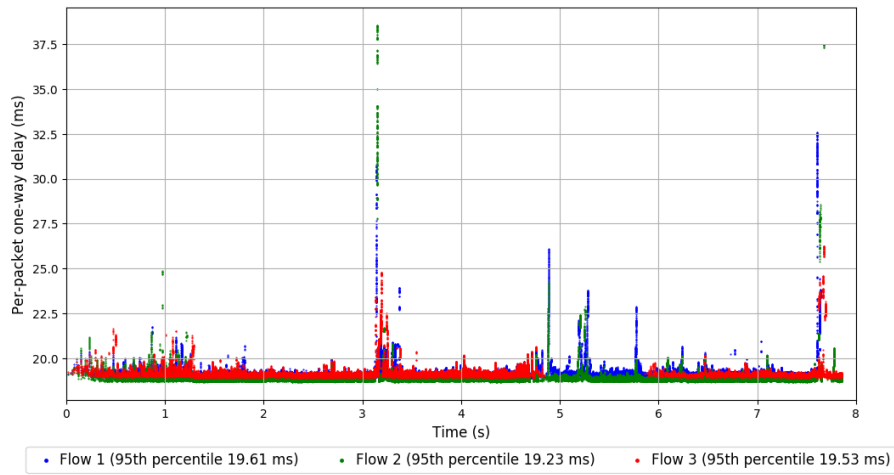
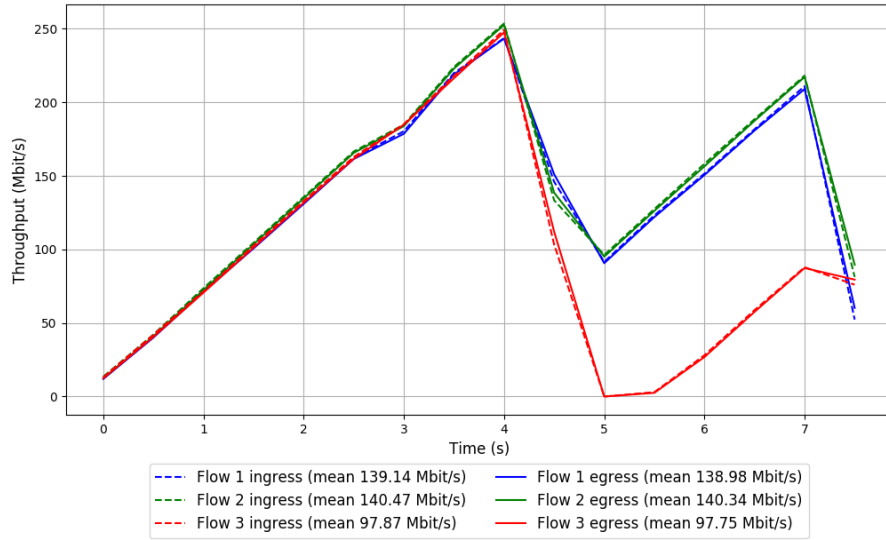
Start at: 2017-12-20 10:28:08

End at: 2017-12-20 10:28:38

Local clock offset: 0.365 ms

Remote clock offset: -1.239 ms

Run 6: Report of LEDBAT — Data Link



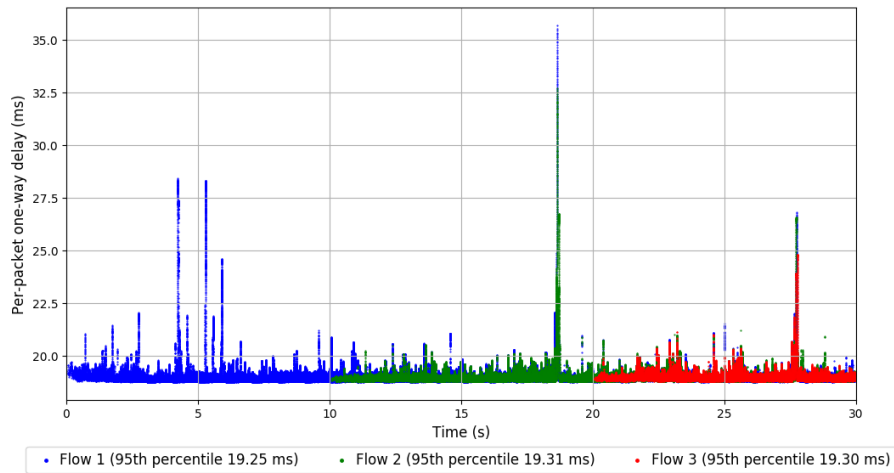
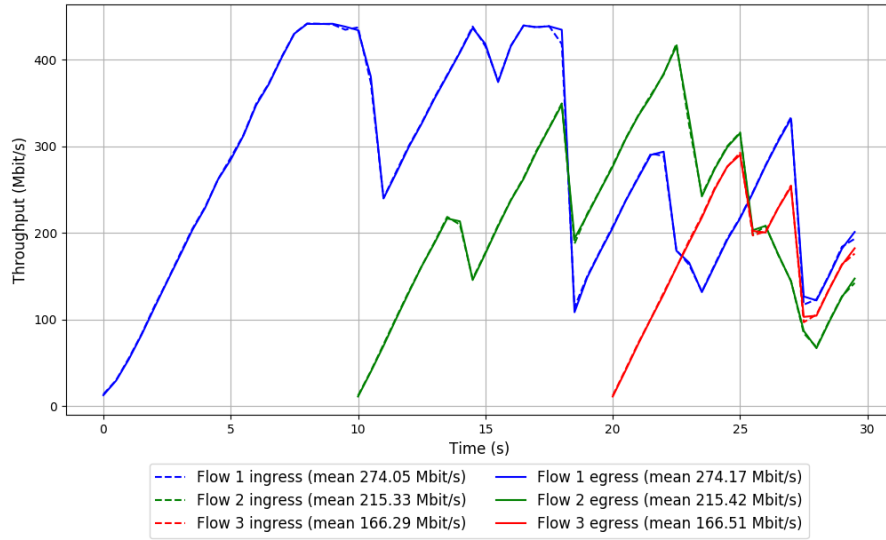
Run 7: Statistics of LEDBAT

Start at: 2017-12-20 10:49:49  
End at: 2017-12-20 10:50:19  
Local clock offset: 0.2 ms  
Remote clock offset: -1.022 ms

```
# Below is generated by plot.py at 2017-12-20 14:46:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 472.67 Mbit/s
95th percentile per-packet one-way delay: 19.280 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 274.17 Mbit/s
95th percentile per-packet one-way delay: 19.255 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 215.42 Mbit/s
95th percentile per-packet one-way delay: 19.312 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 166.51 Mbit/s
95th percentile per-packet one-way delay: 19.302 ms
Loss rate: 0.02%
```



### Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

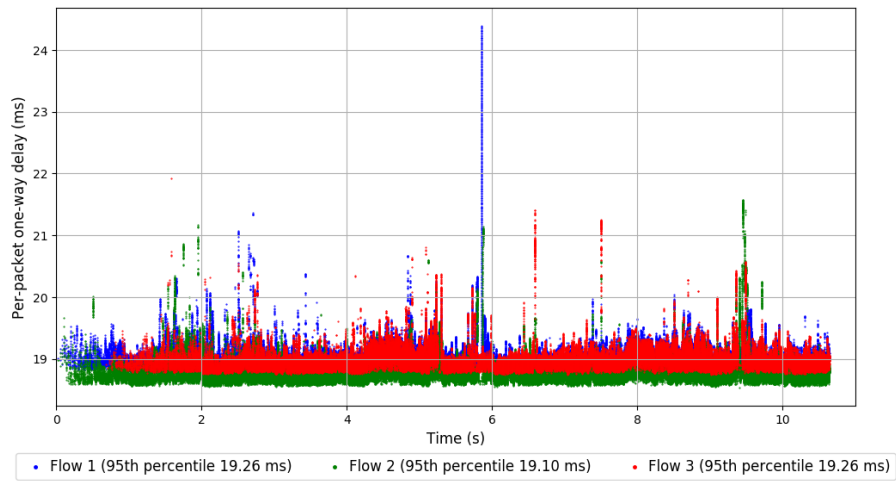
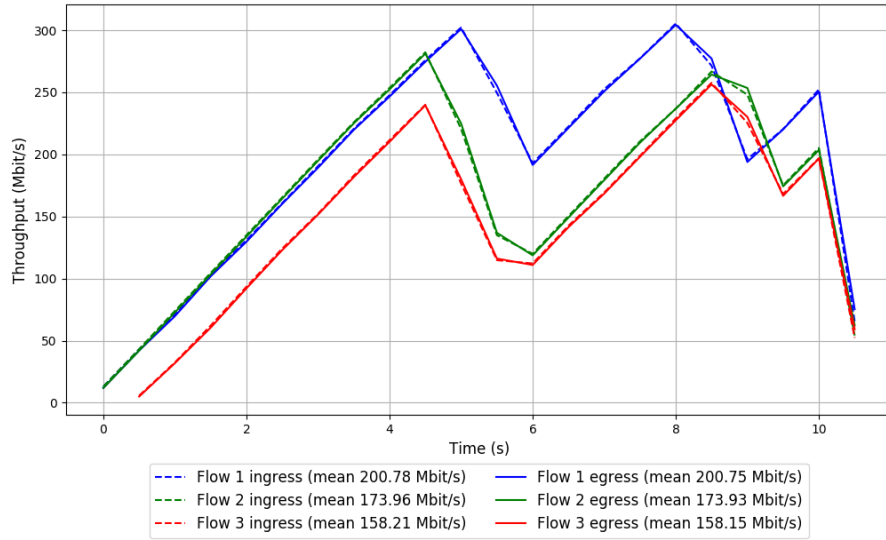
Start at: 2017-12-20 11:11:54

End at: 2017-12-20 11:12:24

Local clock offset: 0.045 ms

Remote clock offset: -1.228 ms

### Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-12-20 11:33:27  
End at: 2017-12-20 11:33:57  
Local clock offset: -0.133 ms  
Remote clock offset: -1.499 ms

# Below is generated by plot.py at 2017-12-20 14:46:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 443.56 Mbit/s  
95th percentile per-packet one-way delay: 19.541 ms  
Loss rate: 0.04%

-- Flow 1:

Average throughput: 255.69 Mbit/s  
95th percentile per-packet one-way delay: 19.416 ms  
Loss rate: 0.04%

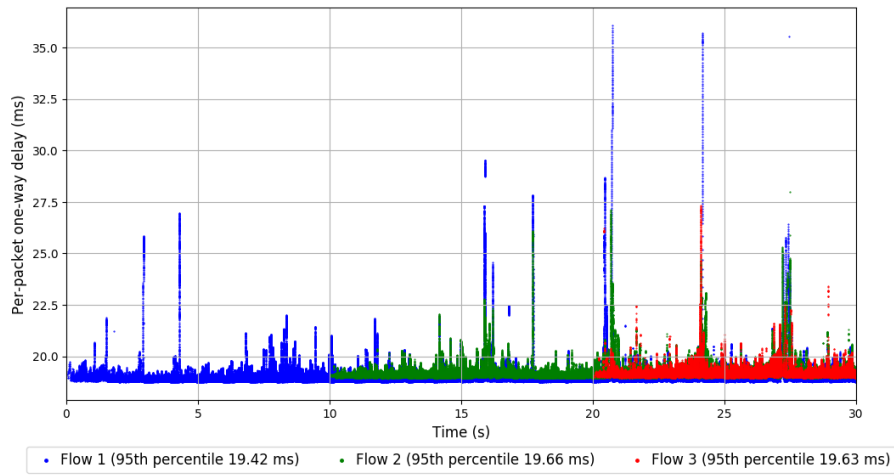
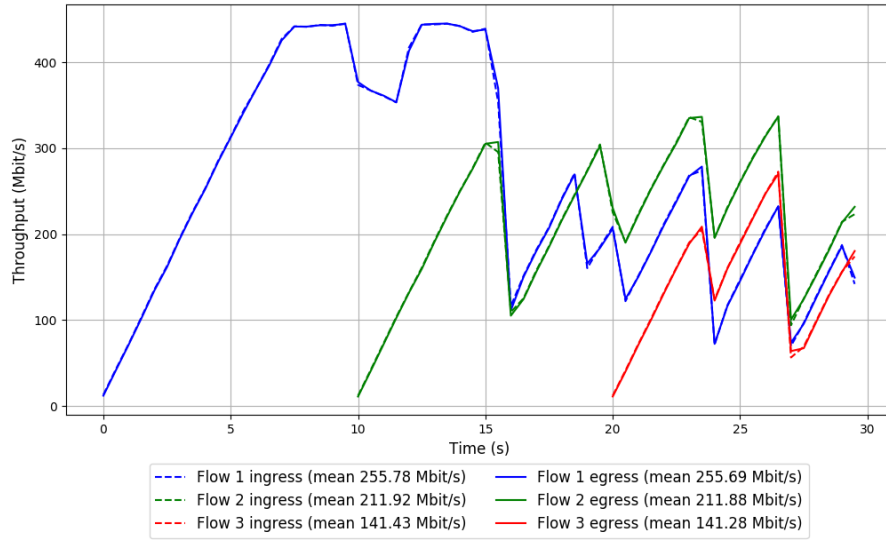
-- Flow 2:

Average throughput: 211.88 Mbit/s  
95th percentile per-packet one-way delay: 19.662 ms  
Loss rate: 0.02%

-- Flow 3:

Average throughput: 141.28 Mbit/s  
95th percentile per-packet one-way delay: 19.626 ms  
Loss rate: 0.11%

### Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-12-20 11:55:35

End at: 2017-12-20 11:56:05

Local clock offset: -0.186 ms

Remote clock offset: -2.04 ms

# Below is generated by plot.py at 2017-12-20 14:46:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 428.28 Mbit/s

95th percentile per-packet one-way delay: 19.339 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 245.99 Mbit/s

95th percentile per-packet one-way delay: 19.246 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 200.50 Mbit/s

95th percentile per-packet one-way delay: 19.303 ms

Loss rate: 0.04%

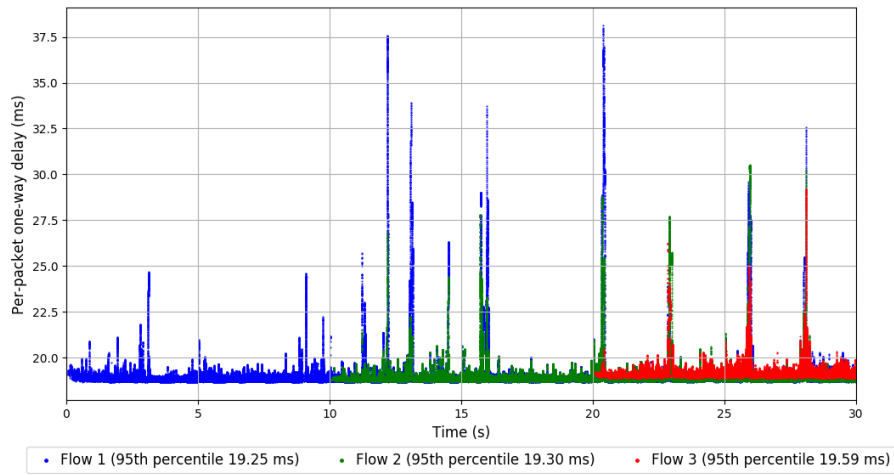
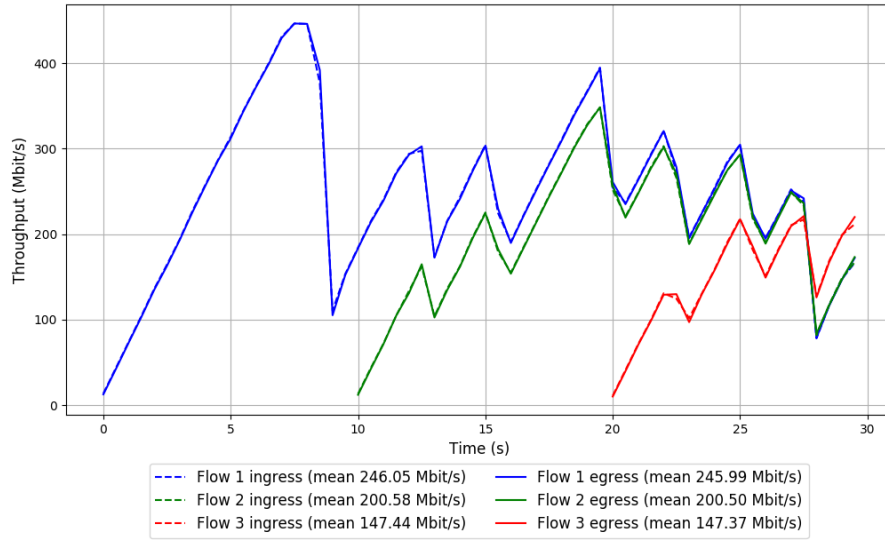
-- Flow 3:

Average throughput: 147.37 Mbit/s

95th percentile per-packet one-way delay: 19.588 ms

Loss rate: 0.05%

Run 10: Report of LEDBAT — Data Link



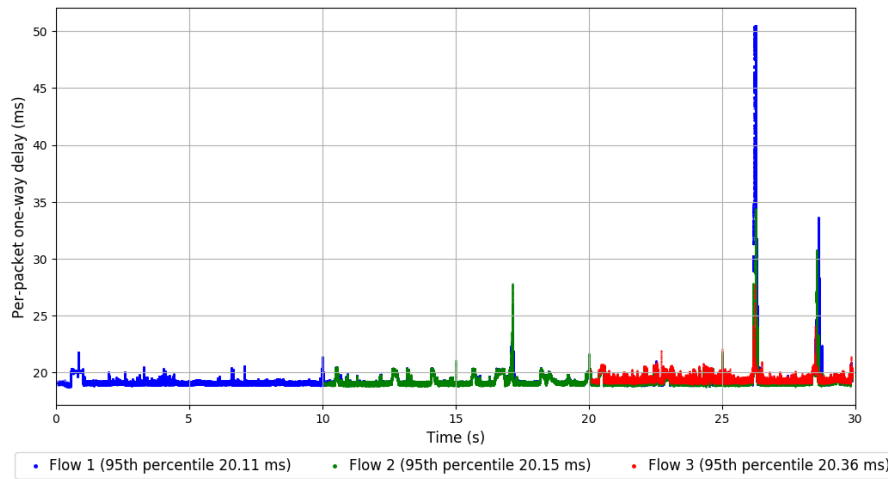
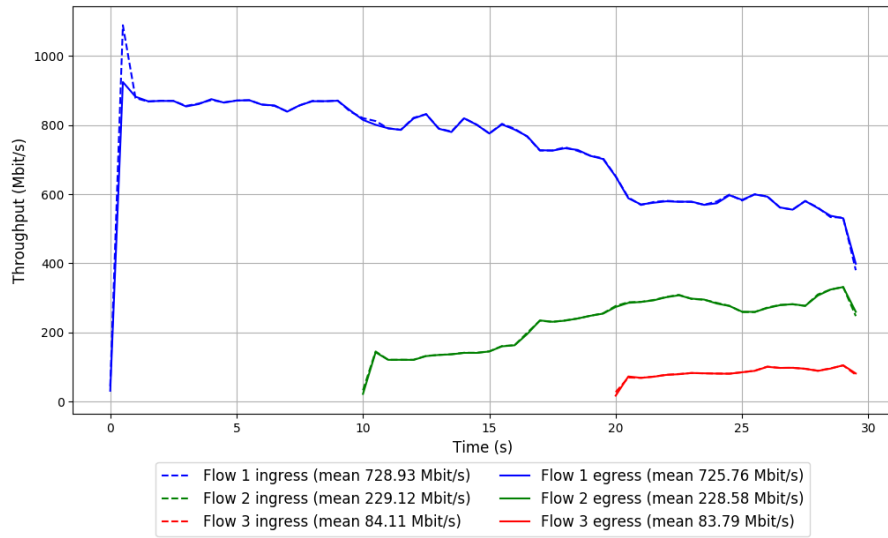
Run 1: Statistics of PCC

Start at: 2017-12-20 08:47:21  
End at: 2017-12-20 08:47:51  
Local clock offset: 0.96 ms  
Remote clock offset: -0.732 ms

```
# Below is generated by plot.py at 2017-12-20 14:53:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 905.25 Mbit/s
95th percentile per-packet one-way delay: 20.116 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 725.76 Mbit/s
95th percentile per-packet one-way delay: 20.106 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 228.58 Mbit/s
95th percentile per-packet one-way delay: 20.153 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 83.79 Mbit/s
95th percentile per-packet one-way delay: 20.356 ms
Loss rate: 0.39%
```



### Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-12-20 09:09:06

End at: 2017-12-20 09:09:36

Local clock offset: 0.932 ms

Remote clock offset: -0.84 ms

# Below is generated by plot.py at 2017-12-20 14:53:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 926.55 Mbit/s

95th percentile per-packet one-way delay: 20.302 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 815.95 Mbit/s

95th percentile per-packet one-way delay: 20.304 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 133.13 Mbit/s

95th percentile per-packet one-way delay: 18.861 ms

Loss rate: 0.57%

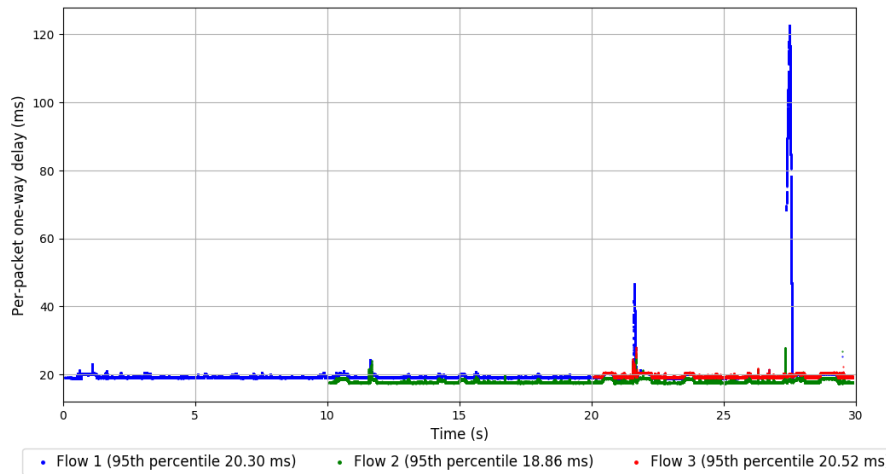
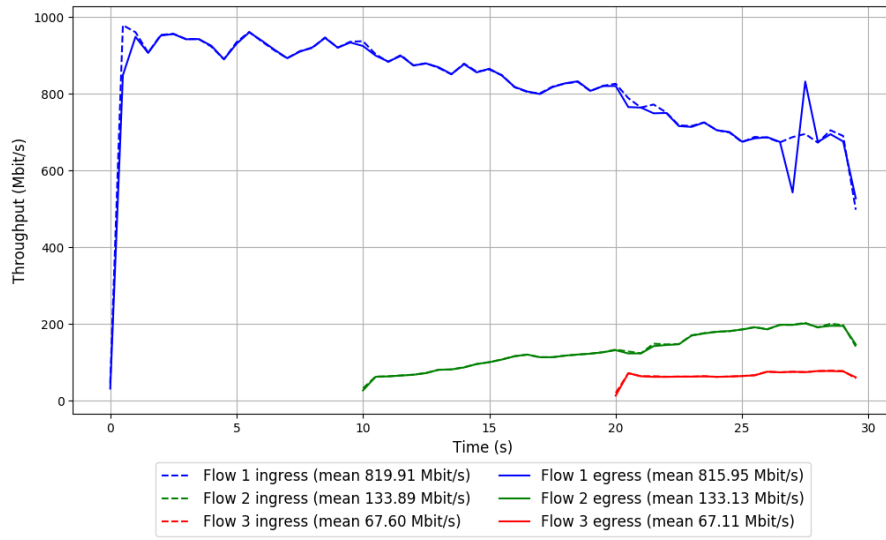
-- Flow 3:

Average throughput: 67.11 Mbit/s

95th percentile per-packet one-way delay: 20.521 ms

Loss rate: 0.72%

## Run 2: Report of PCC — Data Link

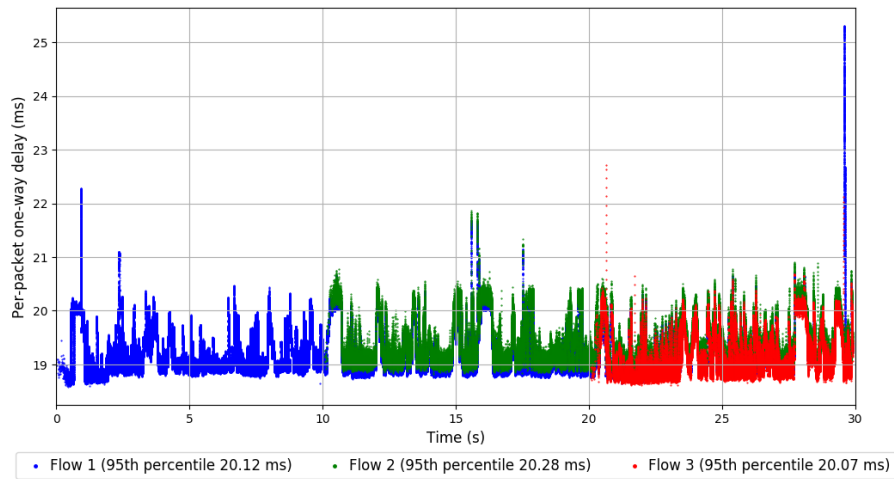
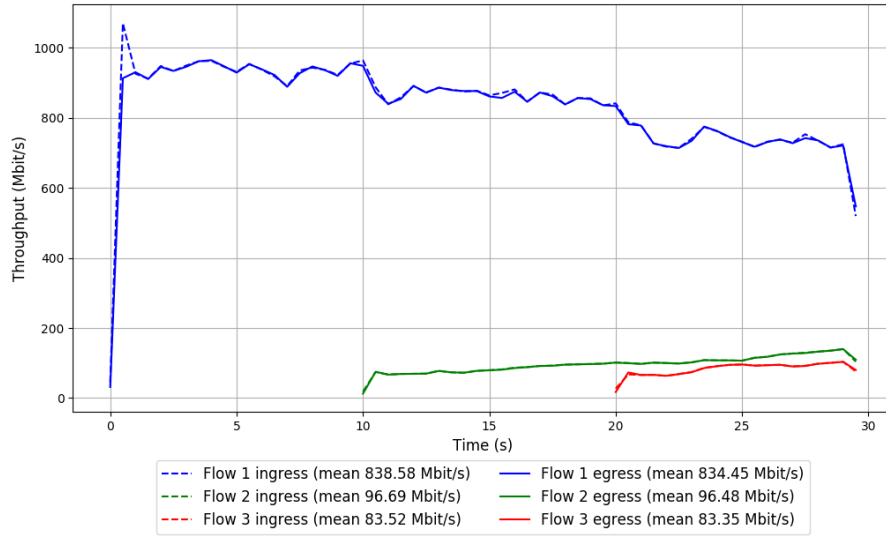


Run 3: Statistics of PCC

Start at: 2017-12-20 09:30:57  
End at: 2017-12-20 09:31:27  
Local clock offset: 1.045 ms  
Remote clock offset: -1.107 ms

```
# Below is generated by plot.py at 2017-12-20 14:54:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 925.96 Mbit/s
95th percentile per-packet one-way delay: 20.127 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 834.45 Mbit/s
95th percentile per-packet one-way delay: 20.119 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 96.48 Mbit/s
95th percentile per-packet one-way delay: 20.280 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 83.35 Mbit/s
95th percentile per-packet one-way delay: 20.065 ms
Loss rate: 0.21%
```

### Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-12-20 09:52:42  
End at: 2017-12-20 09:53:12  
Local clock offset: 0.819 ms  
Remote clock offset: -0.997 ms

# Below is generated by plot.py at 2017-12-20 14:55:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 918.53 Mbit/s  
95th percentile per-packet one-way delay: 20.235 ms  
Loss rate: 0.75%

-- Flow 1:

Average throughput: 735.33 Mbit/s  
95th percentile per-packet one-way delay: 20.210 ms  
Loss rate: 0.78%

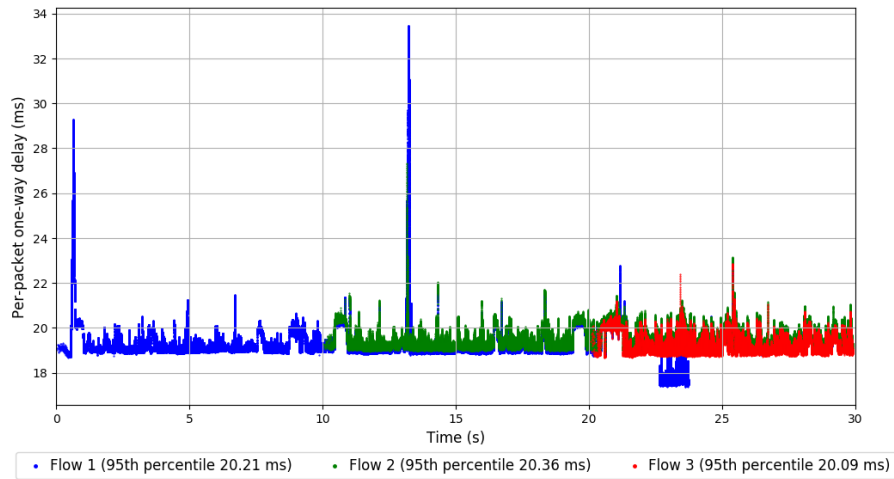
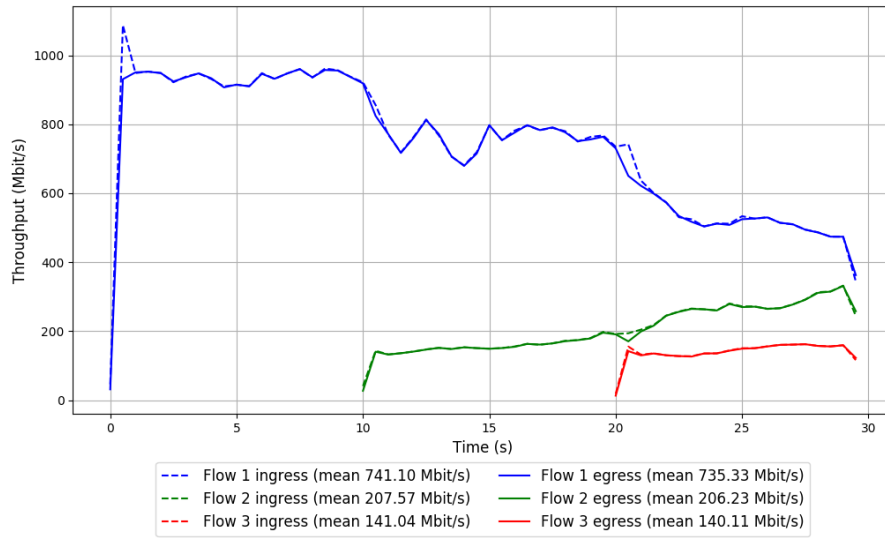
-- Flow 2:

Average throughput: 206.23 Mbit/s  
95th percentile per-packet one-way delay: 20.365 ms  
Loss rate: 0.65%

-- Flow 3:

Average throughput: 140.11 Mbit/s  
95th percentile per-packet one-way delay: 20.086 ms  
Loss rate: 0.66%

### Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-12-20 10:14:32  
End at: 2017-12-20 10:15:02  
Local clock offset: 0.507 ms  
Remote clock offset: -1.219 ms

# Below is generated by plot.py at 2017-12-20 14:55:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 898.73 Mbit/s  
95th percentile per-packet one-way delay: 20.175 ms  
Loss rate: 0.34%

-- Flow 1:

Average throughput: 776.13 Mbit/s  
95th percentile per-packet one-way delay: 20.152 ms  
Loss rate: 0.32%

-- Flow 2:

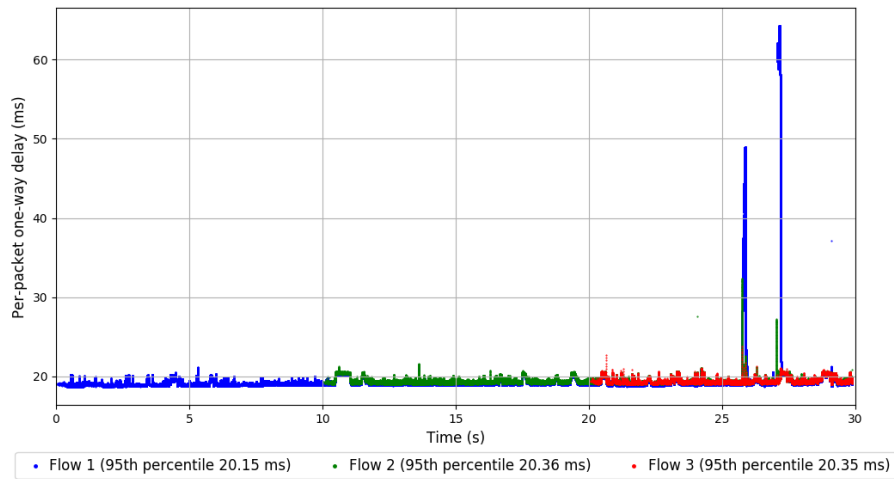
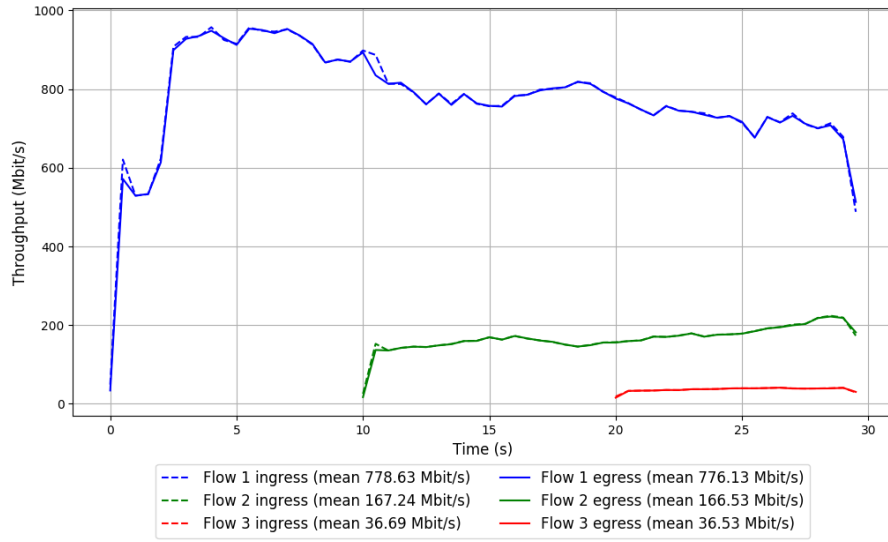
Average throughput: 166.53 Mbit/s  
95th percentile per-packet one-way delay: 20.356 ms  
Loss rate: 0.42%

-- Flow 3:

Average throughput: 36.53 Mbit/s  
95th percentile per-packet one-way delay: 20.351 ms  
Loss rate: 0.45%



### Run 5: Report of PCC — Data Link

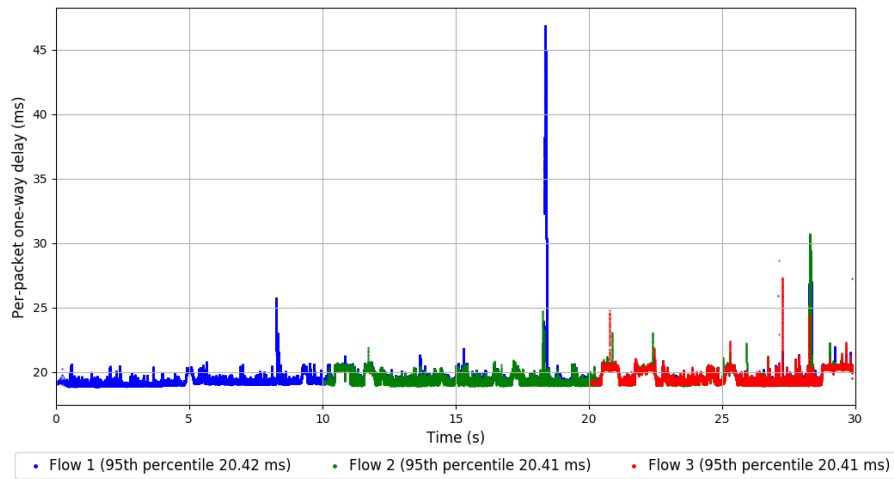
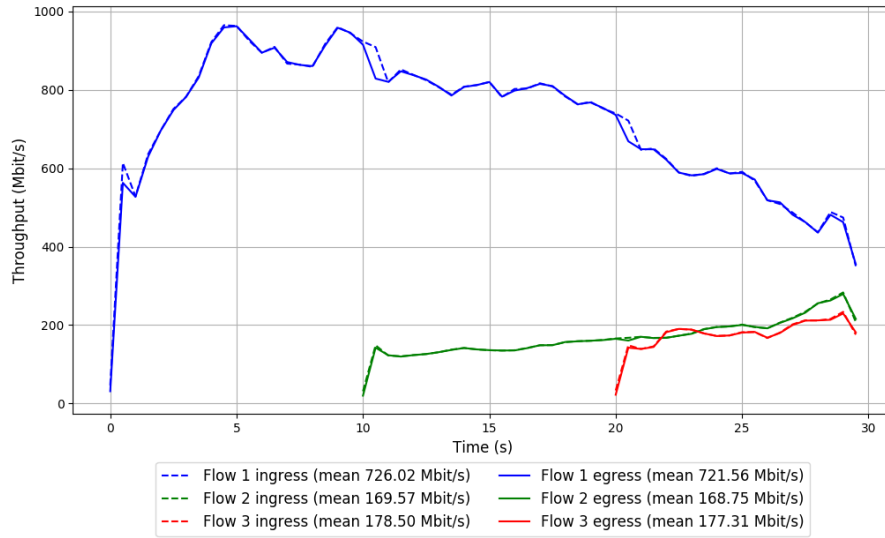


Run 6: Statistics of PCC

Start at: 2017-12-20 10:36:24  
End at: 2017-12-20 10:36:54  
Local clock offset: 0.315 ms  
Remote clock offset: -1.161 ms

```
# Below is generated by plot.py at 2017-12-20 14:59:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 892.21 Mbit/s
95th percentile per-packet one-way delay: 20.420 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 721.56 Mbit/s
95th percentile per-packet one-way delay: 20.422 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 168.75 Mbit/s
95th percentile per-packet one-way delay: 20.413 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 177.31 Mbit/s
95th percentile per-packet one-way delay: 20.415 ms
Loss rate: 0.67%
```

Run 6: Report of PCC — Data Link

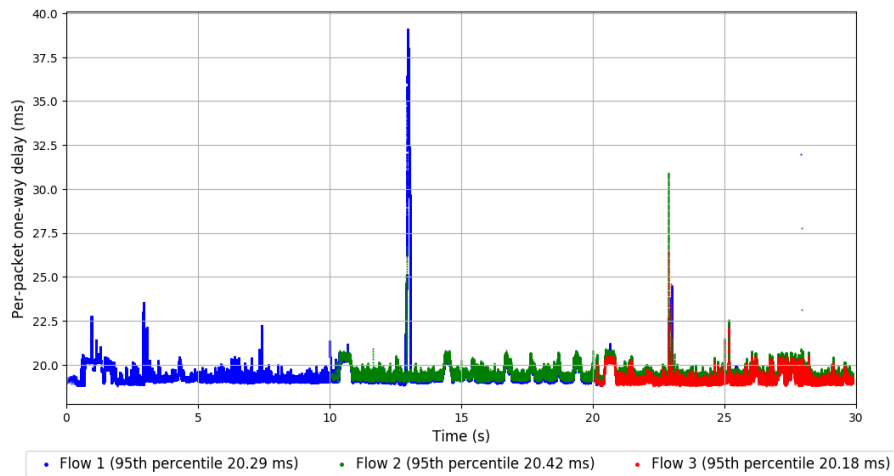
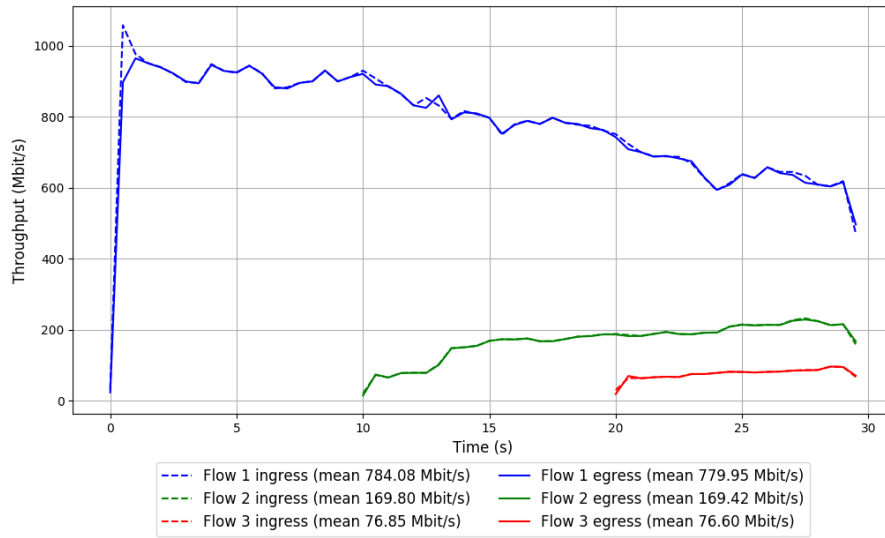


Run 7: Statistics of PCC

Start at: 2017-12-20 10:58:20  
End at: 2017-12-20 10:58:50  
Local clock offset: 0.032 ms  
Remote clock offset: -1.099 ms

```
# Below is generated by plot.py at 2017-12-20 15:00:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 917.67 Mbit/s
95th percentile per-packet one-way delay: 20.305 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 779.95 Mbit/s
95th percentile per-packet one-way delay: 20.293 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 169.42 Mbit/s
95th percentile per-packet one-way delay: 20.417 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 76.60 Mbit/s
95th percentile per-packet one-way delay: 20.176 ms
Loss rate: 0.32%
```

### Run 7: Report of PCC — Data Link

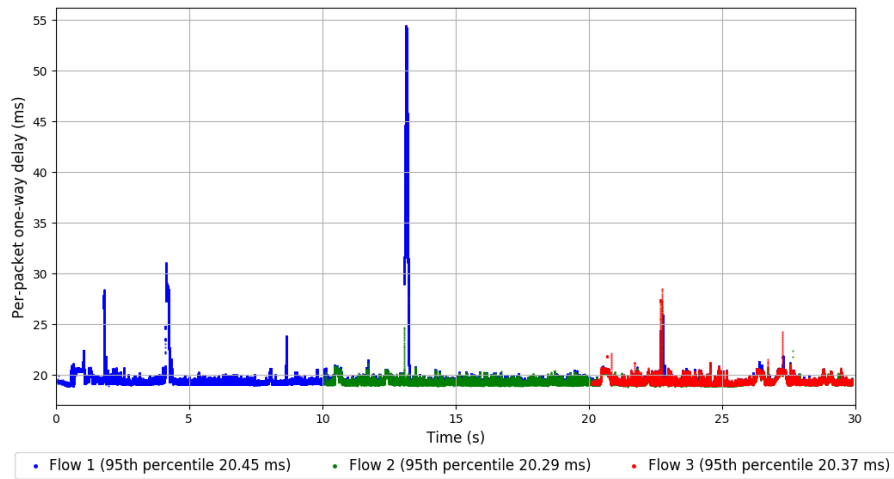
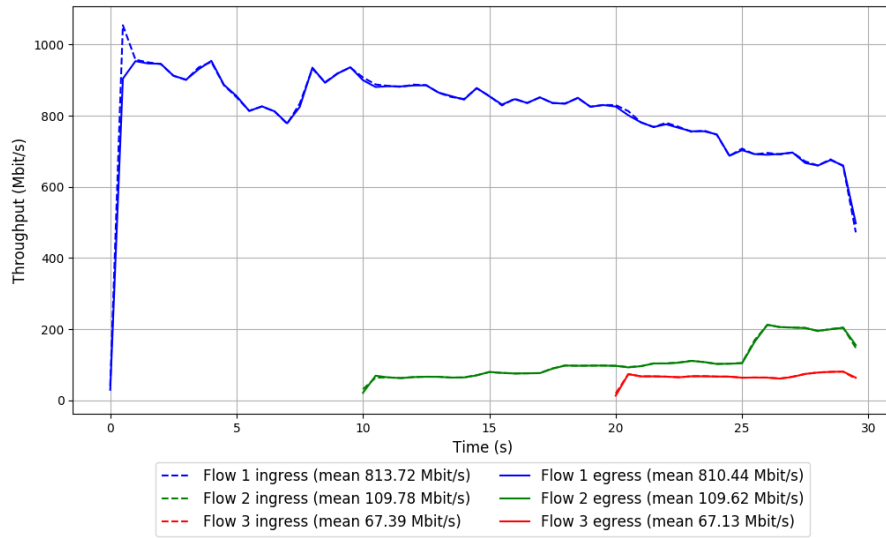


Run 8: Statistics of PCC

Start at: 2017-12-20 11:20:00  
End at: 2017-12-20 11:20:30  
Local clock offset: 0.003 ms  
Remote clock offset: -1.191 ms

```
# Below is generated by plot.py at 2017-12-20 15:00:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 905.38 Mbit/s
95th percentile per-packet one-way delay: 20.436 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 810.44 Mbit/s
95th percentile per-packet one-way delay: 20.447 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 109.62 Mbit/s
95th percentile per-packet one-way delay: 20.294 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 67.13 Mbit/s
95th percentile per-packet one-way delay: 20.369 ms
Loss rate: 0.40%
```

### Run 8: Report of PCC — Data Link



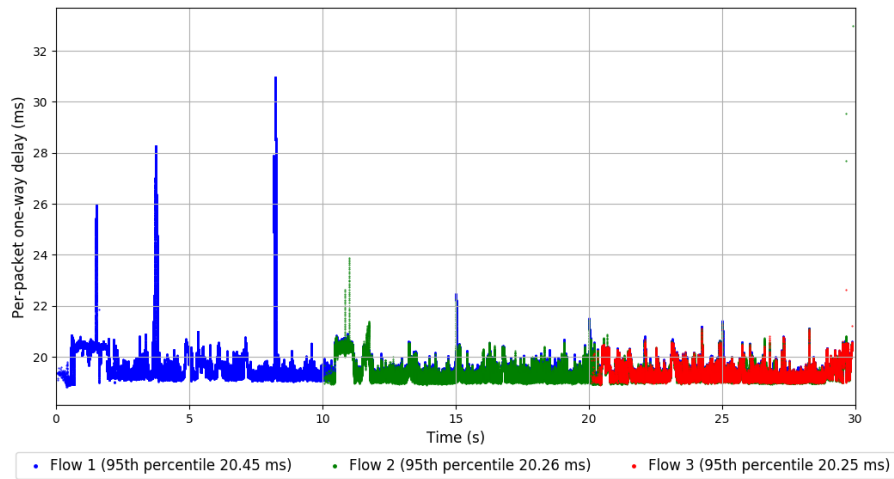
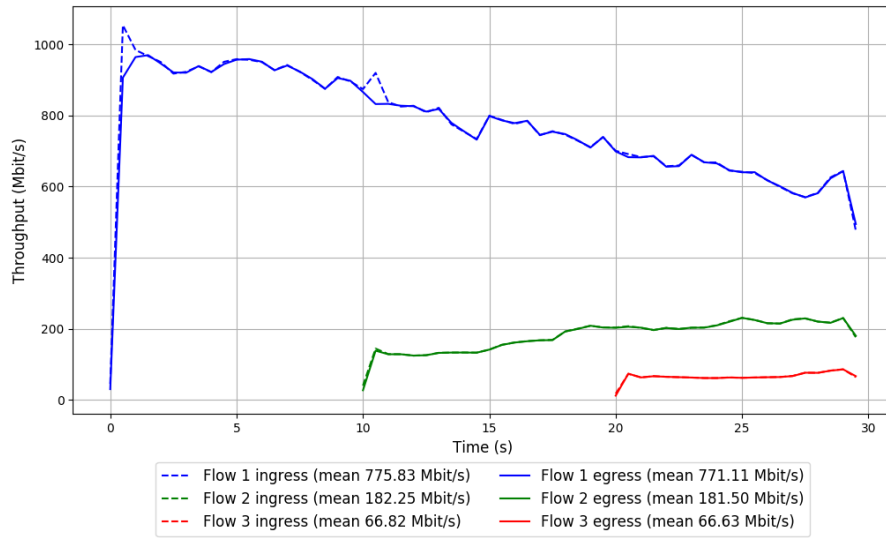
Run 9: Statistics of PCC

Start at: 2017-12-20 11:41:59  
End at: 2017-12-20 11:42:29  
Local clock offset: -0.12 ms  
Remote clock offset: -1.721 ms

```
# Below is generated by plot.py at 2017-12-20 15:06:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 913.37 Mbit/s
95th percentile per-packet one-way delay: 20.431 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 771.11 Mbit/s
95th percentile per-packet one-way delay: 20.446 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 181.50 Mbit/s
95th percentile per-packet one-way delay: 20.256 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 66.63 Mbit/s
95th percentile per-packet one-way delay: 20.246 ms
Loss rate: 0.32%
```



### Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-12-20 12:04:01  
End at: 2017-12-20 12:04:31  
Local clock offset: -0.173 ms  
Remote clock offset: -2.096 ms

# Below is generated by plot.py at 2017-12-20 15:06:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 911.70 Mbit/s  
95th percentile per-packet one-way delay: 20.472 ms  
Loss rate: 0.46%

-- Flow 1:

Average throughput: 846.72 Mbit/s  
95th percentile per-packet one-way delay: 20.477 ms  
Loss rate: 0.46%

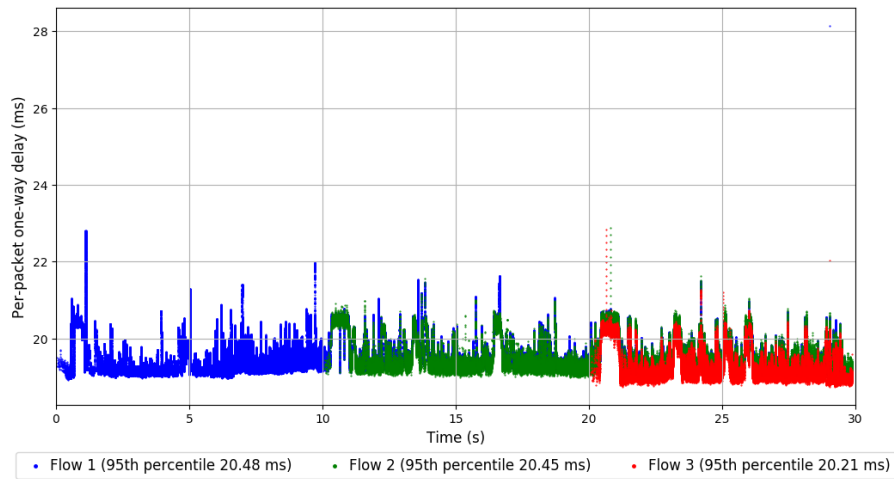
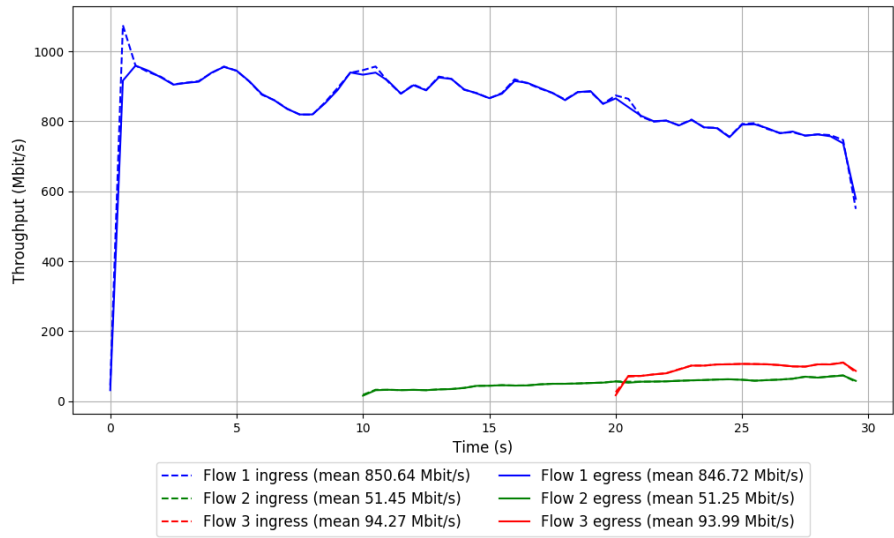
-- Flow 2:

Average throughput: 51.25 Mbit/s  
95th percentile per-packet one-way delay: 20.448 ms  
Loss rate: 0.40%

-- Flow 3:

Average throughput: 93.99 Mbit/s  
95th percentile per-packet one-way delay: 20.211 ms  
Loss rate: 0.32%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2017-12-20 08:56:56  
End at: 2017-12-20 08:57:26  
Local clock offset: 0.916 ms  
Remote clock offset: -0.656 ms

# Below is generated by plot.py at 2017-12-20 15:06:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 69.66 Mbit/s  
95th percentile per-packet one-way delay: 19.008 ms  
Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.30 Mbit/s  
95th percentile per-packet one-way delay: 20.330 ms  
Loss rate: 0.00%

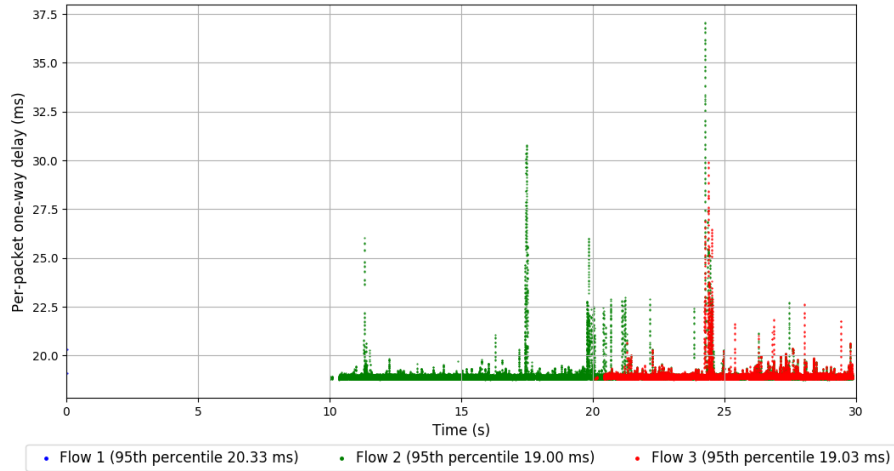
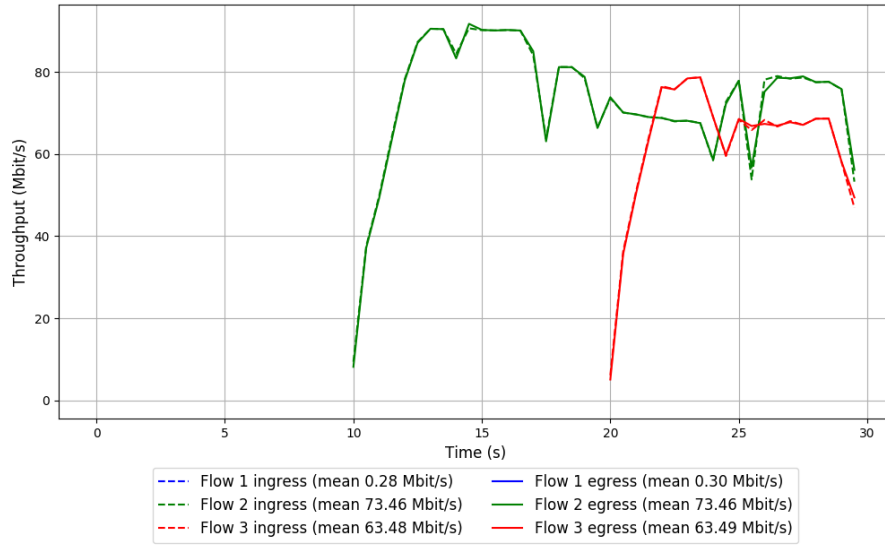
-- Flow 2:

Average throughput: 73.46 Mbit/s  
95th percentile per-packet one-way delay: 19.000 ms  
Loss rate: 0.00%

-- Flow 3:

Average throughput: 63.49 Mbit/s  
95th percentile per-packet one-way delay: 19.027 ms  
Loss rate: 0.00%

### Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-12-20 09:18:44  
End at: 2017-12-20 09:19:14  
Local clock offset: 1.025 ms  
Remote clock offset: -0.985 ms

# Below is generated by plot.py at 2017-12-20 15:06:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 123.36 Mbit/s  
95th percentile per-packet one-way delay: 19.239 ms  
Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.57 Mbit/s  
95th percentile per-packet one-way delay: 19.213 ms  
Loss rate: 0.00%

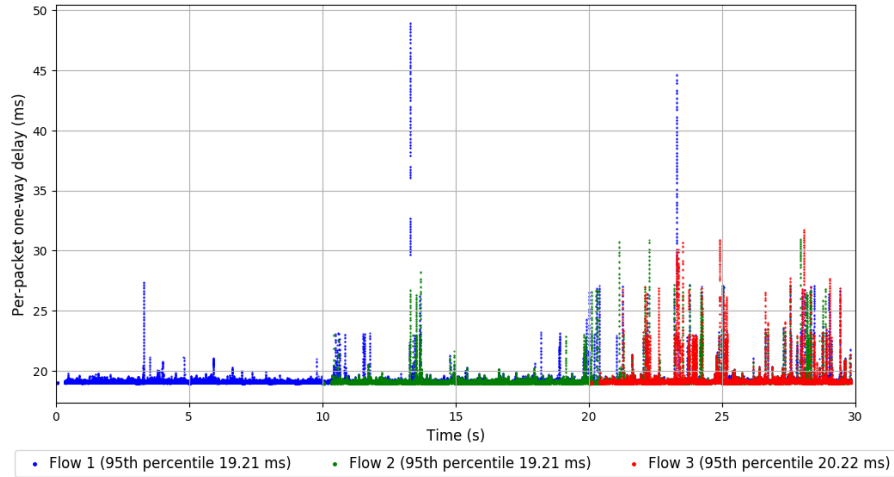
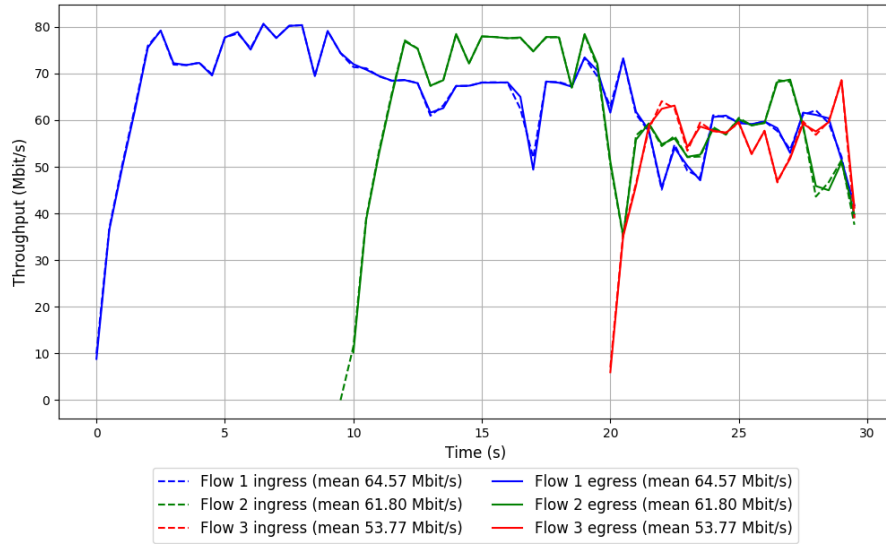
-- Flow 2:

Average throughput: 61.80 Mbit/s  
95th percentile per-packet one-way delay: 19.213 ms  
Loss rate: 0.00%

-- Flow 3:

Average throughput: 53.77 Mbit/s  
95th percentile per-packet one-way delay: 20.216 ms  
Loss rate: 0.00%

## Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-12-20 09:40:33

End at: 2017-12-20 09:41:03

Local clock offset: 0.927 ms

Remote clock offset: -1.0 ms

# Below is generated by plot.py at 2017-12-20 15:06:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 126.18 Mbit/s

95th percentile per-packet one-way delay: 19.378 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 69.48 Mbit/s

95th percentile per-packet one-way delay: 19.288 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.00 Mbit/s

95th percentile per-packet one-way delay: 19.047 ms

Loss rate: 0.00%

-- Flow 3:

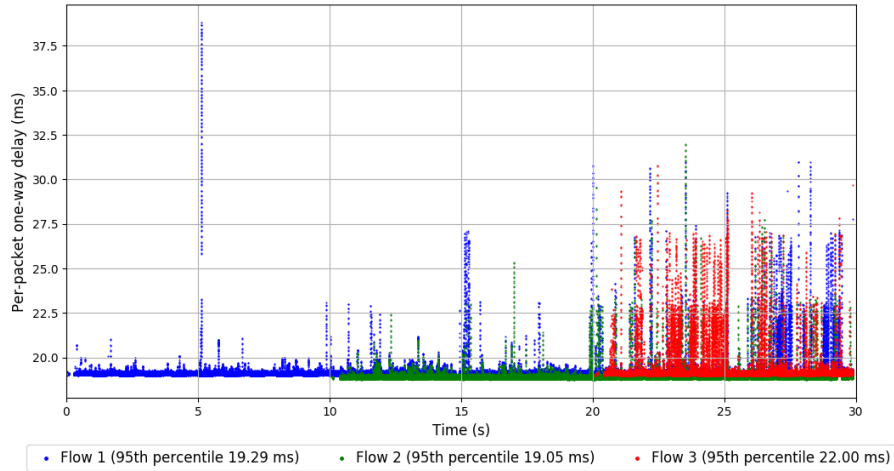
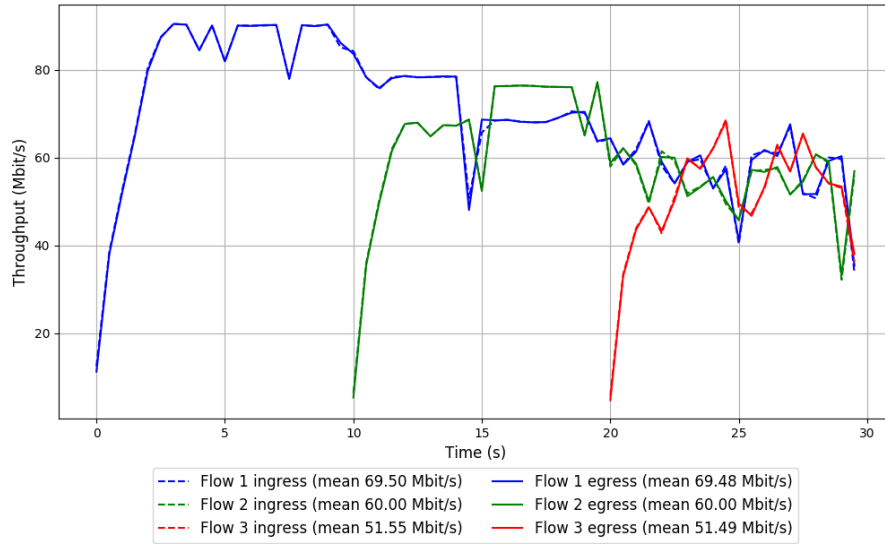
Average throughput: 51.49 Mbit/s

95th percentile per-packet one-way delay: 21.999 ms

Loss rate: 0.00%



### Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-12-20 10:02:17  
End at: 2017-12-20 10:02:47  
Local clock offset: 0.773 ms  
Remote clock offset: -0.964 ms

# Below is generated by plot.py at 2017-12-20 15:06:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 122.42 Mbit/s  
95th percentile per-packet one-way delay: 19.205 ms  
Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.11 Mbit/s  
95th percentile per-packet one-way delay: 19.248 ms  
Loss rate: 0.00%

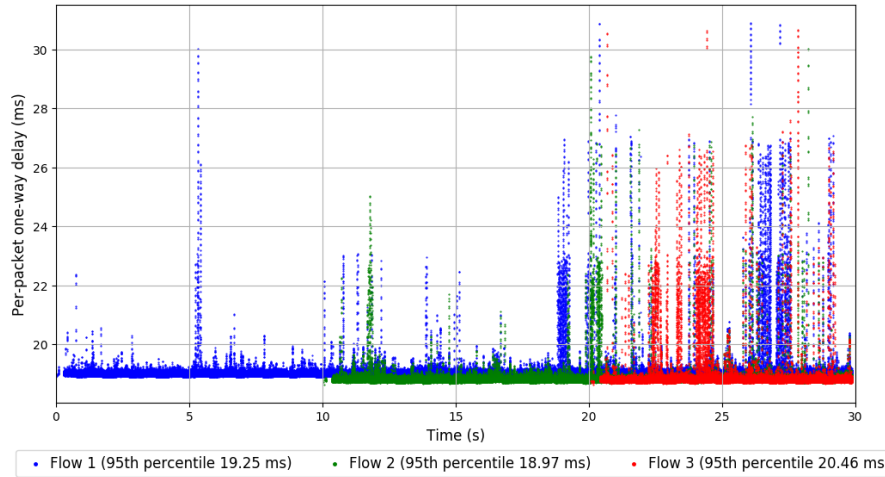
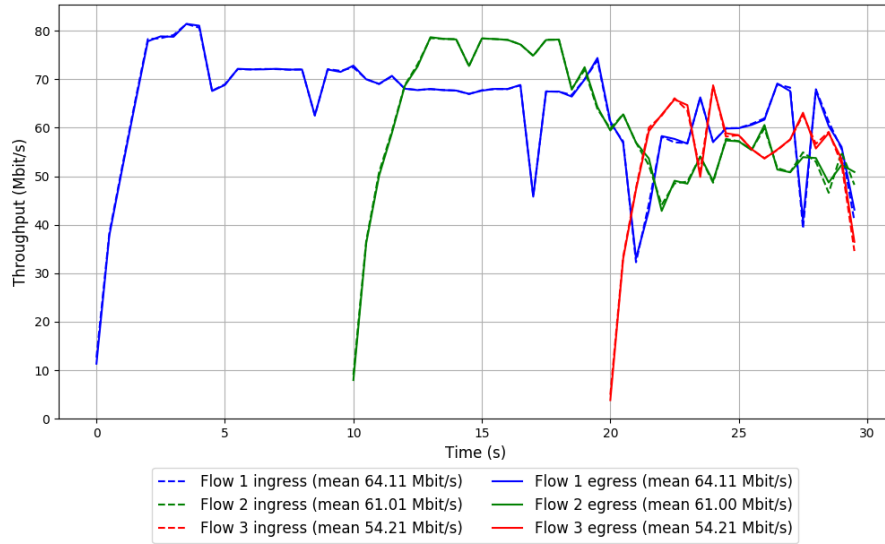
-- Flow 2:

Average throughput: 61.00 Mbit/s  
95th percentile per-packet one-way delay: 18.971 ms  
Loss rate: 0.01%

-- Flow 3:

Average throughput: 54.21 Mbit/s  
95th percentile per-packet one-way delay: 20.456 ms  
Loss rate: 0.00%

### Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-12-20 10:24:10  
End at: 2017-12-20 10:24:40  
Local clock offset: 0.301 ms  
Remote clock offset: -1.367 ms

# Below is generated by plot.py at 2017-12-20 15:06:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 125.39 Mbit/s  
95th percentile per-packet one-way delay: 19.244 ms  
Loss rate: 0.01%

-- Flow 1:

Average throughput: 69.25 Mbit/s  
95th percentile per-packet one-way delay: 19.265 ms  
Loss rate: 0.01%

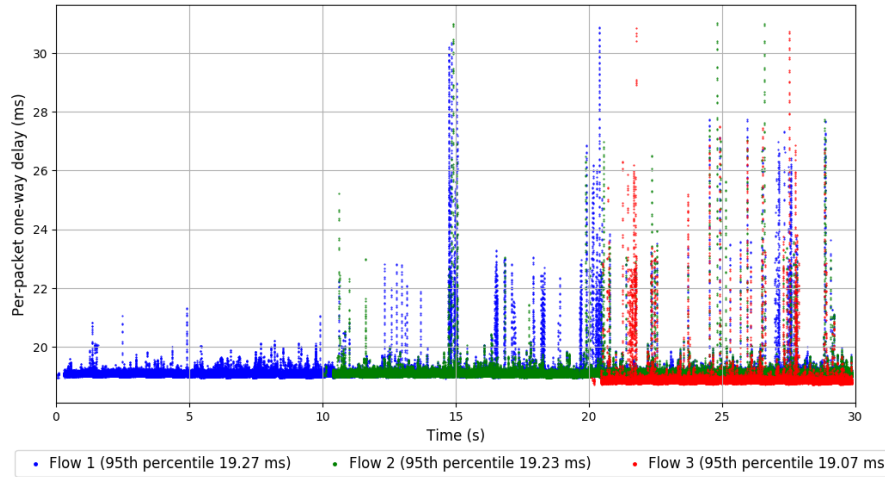
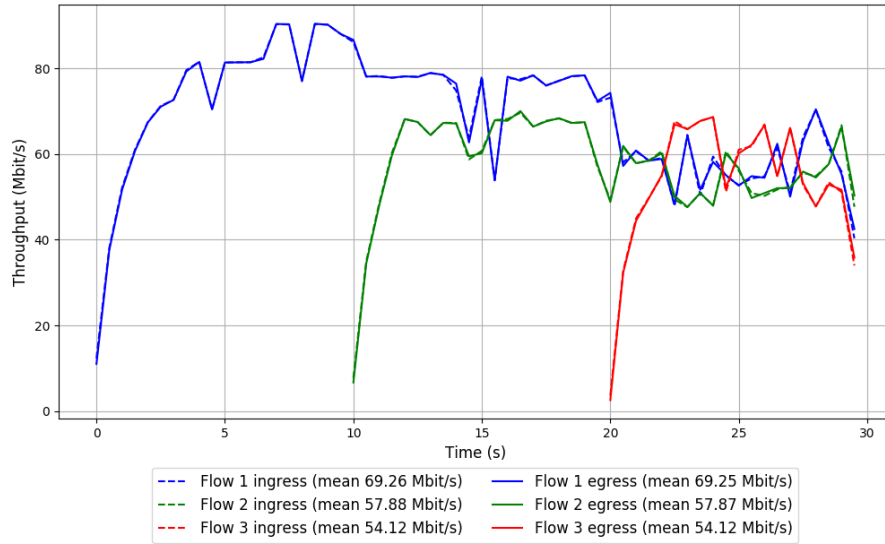
-- Flow 2:

Average throughput: 57.87 Mbit/s  
95th percentile per-packet one-way delay: 19.232 ms  
Loss rate: 0.00%

-- Flow 3:

Average throughput: 54.12 Mbit/s  
95th percentile per-packet one-way delay: 19.068 ms  
Loss rate: 0.00%

### Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-12-20 10:45:52

End at: 2017-12-20 10:46:22

Local clock offset: 0.129 ms

Remote clock offset: -1.06 ms

# Below is generated by plot.py at 2017-12-20 15:06:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 124.80 Mbit/s

95th percentile per-packet one-way delay: 19.123 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 68.07 Mbit/s

95th percentile per-packet one-way delay: 18.922 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.79 Mbit/s

95th percentile per-packet one-way delay: 19.136 ms

Loss rate: 0.00%

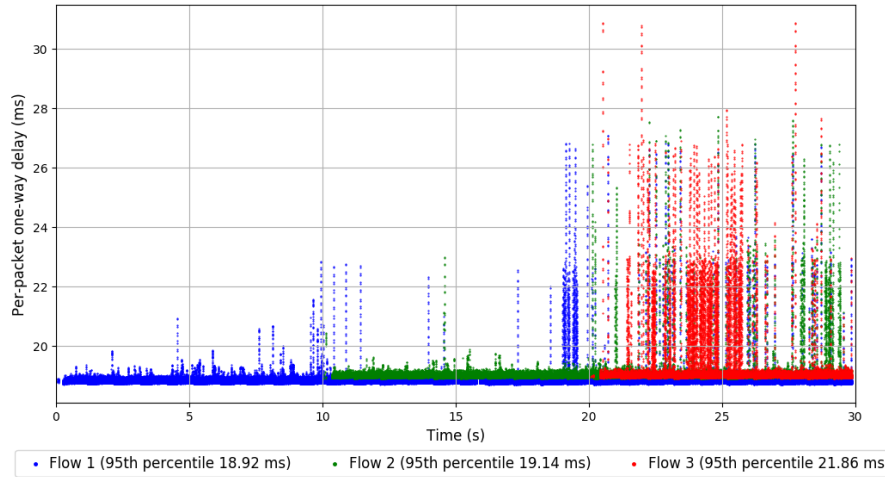
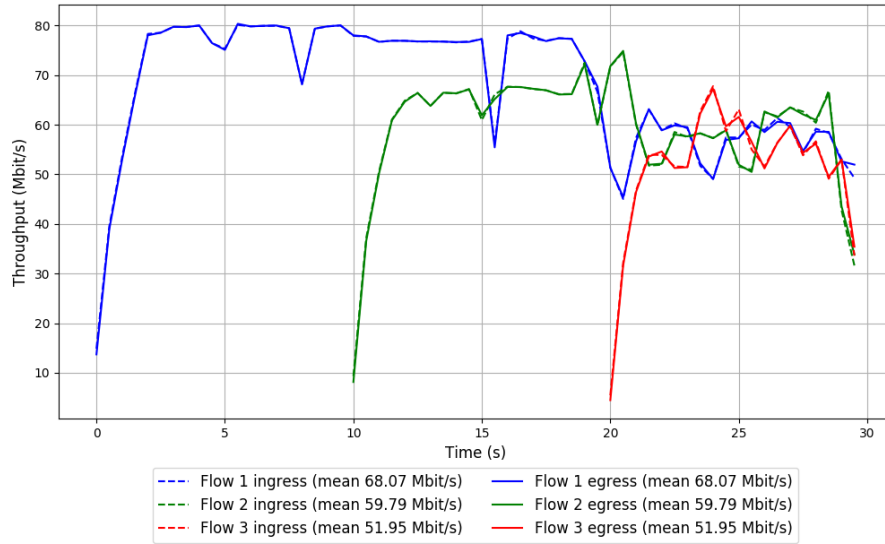
-- Flow 3:

Average throughput: 51.95 Mbit/s

95th percentile per-packet one-way delay: 21.863 ms

Loss rate: 0.00%

### Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-12-20 11:07:56  
End at: 2017-12-20 11:08:26  
Local clock offset: -0.013 ms  
Remote clock offset: -1.134 ms

# Below is generated by plot.py at 2017-12-20 15:06:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 124.45 Mbit/s  
95th percentile per-packet one-way delay: 19.050 ms  
Loss rate: 0.02%

-- Flow 1:

Average throughput: 67.01 Mbit/s  
95th percentile per-packet one-way delay: 19.025 ms  
Loss rate: 0.00%

-- Flow 2:

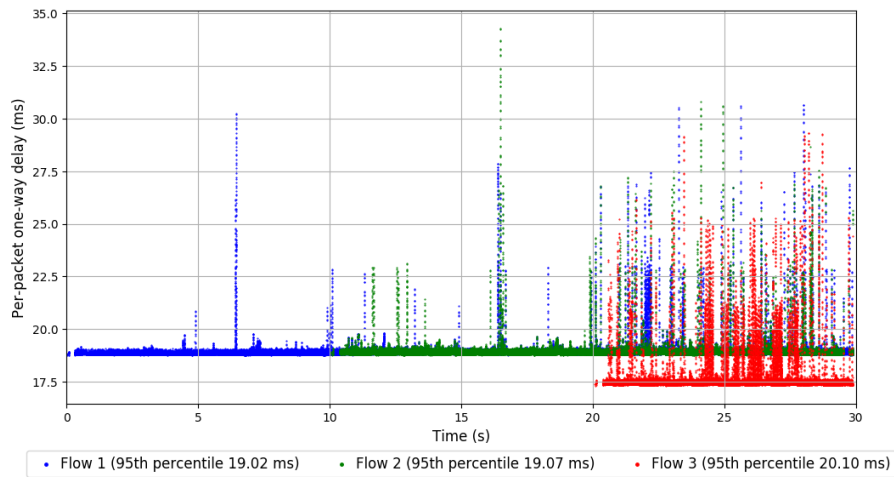
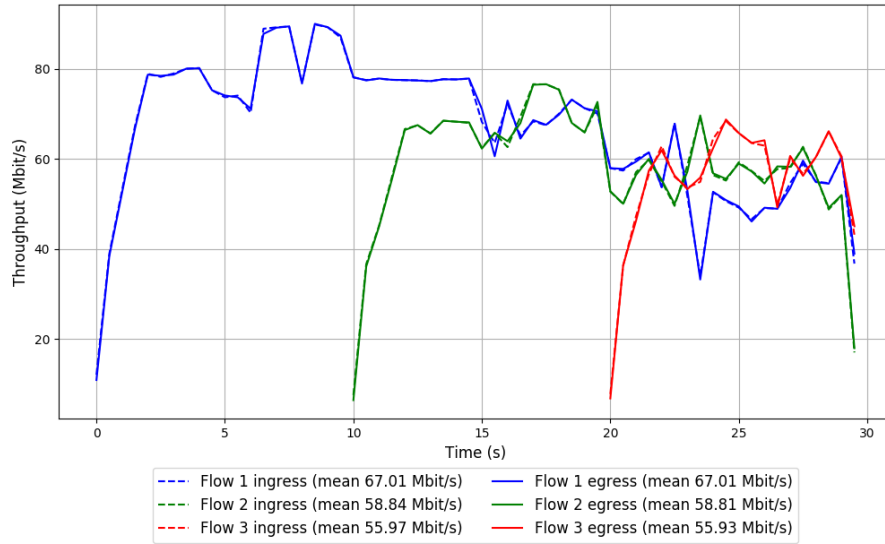
Average throughput: 58.81 Mbit/s  
95th percentile per-packet one-way delay: 19.066 ms  
Loss rate: 0.04%

-- Flow 3:

Average throughput: 55.93 Mbit/s  
95th percentile per-packet one-way delay: 20.096 ms  
Loss rate: 0.05%



### Run 7: Report of QUIC Cubic — Data Link

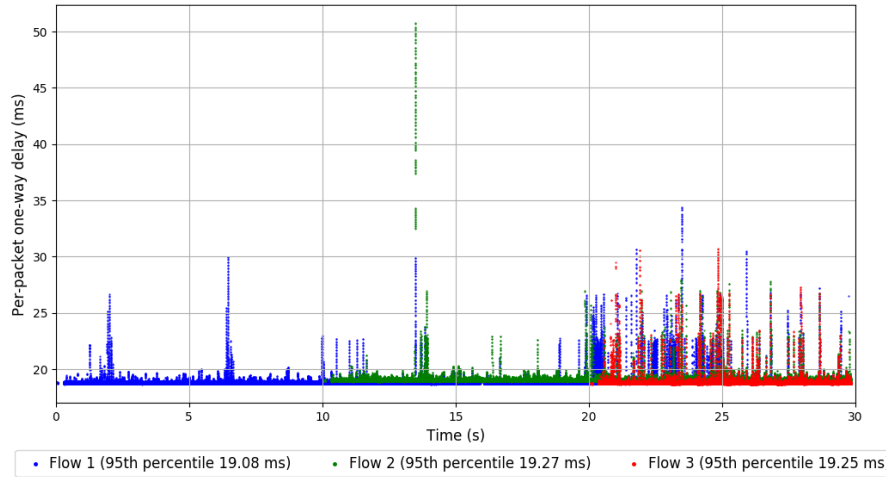
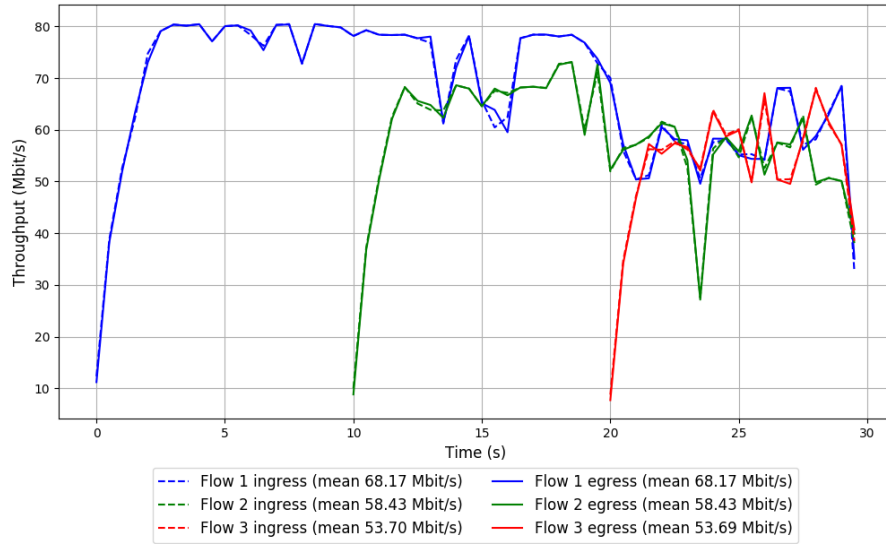


Run 8: Statistics of QUIC Cubic

Start at: 2017-12-20 11:29:29  
End at: 2017-12-20 11:29:59  
Local clock offset: -0.02 ms  
Remote clock offset: -1.444 ms

```
# Below is generated by plot.py at 2017-12-20 15:06:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 124.63 Mbit/s
95th percentile per-packet one-way delay: 19.198 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 68.17 Mbit/s
95th percentile per-packet one-way delay: 19.083 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 58.43 Mbit/s
95th percentile per-packet one-way delay: 19.266 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 53.69 Mbit/s
95th percentile per-packet one-way delay: 19.254 ms
Loss rate: 0.01%
```

### Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-12-20 11:51:37  
End at: 2017-12-20 11:52:07  
Local clock offset: -0.181 ms  
Remote clock offset: -1.897 ms

# Below is generated by plot.py at 2017-12-20 15:06:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 127.23 Mbit/s  
95th percentile per-packet one-way delay: 19.374 ms  
Loss rate: 0.00%

-- Flow 1:

Average throughput: 69.67 Mbit/s  
95th percentile per-packet one-way delay: 19.291 ms  
Loss rate: 0.00%

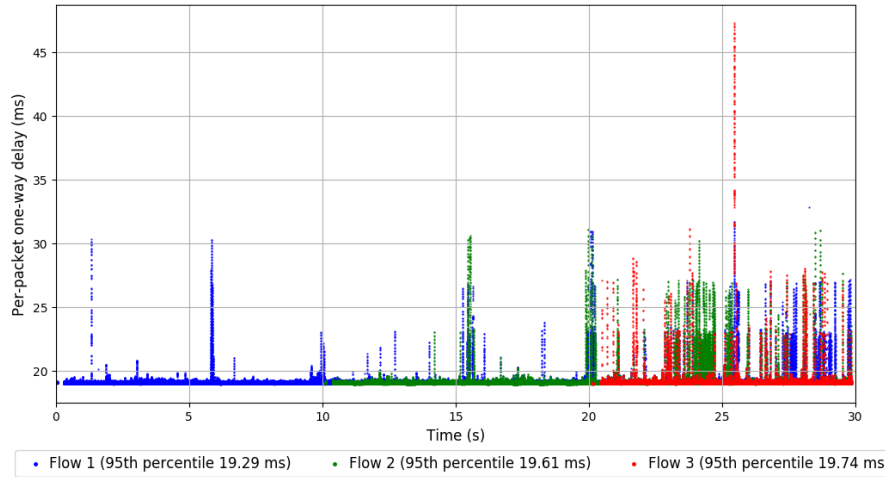
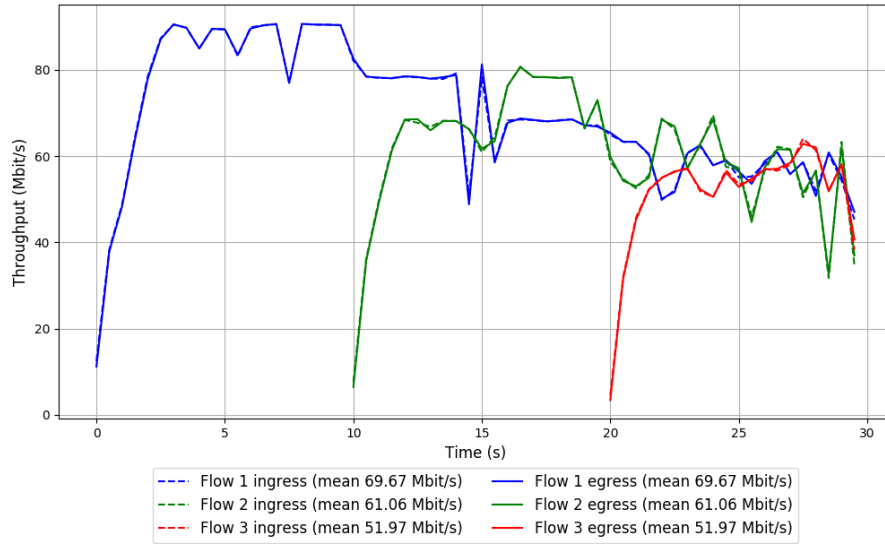
-- Flow 2:

Average throughput: 61.06 Mbit/s  
95th percentile per-packet one-way delay: 19.613 ms  
Loss rate: 0.00%

-- Flow 3:

Average throughput: 51.97 Mbit/s  
95th percentile per-packet one-way delay: 19.743 ms  
Loss rate: 0.00%

### Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-12-20 12:13:37  
End at: 2017-12-20 12:14:07  
Local clock offset: -0.125 ms  
Remote clock offset: -2.021 ms

# Below is generated by plot.py at 2017-12-20 15:06:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 125.21 Mbit/s  
95th percentile per-packet one-way delay: 19.123 ms  
Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.62 Mbit/s  
95th percentile per-packet one-way delay: 19.120 ms  
Loss rate: 0.00%

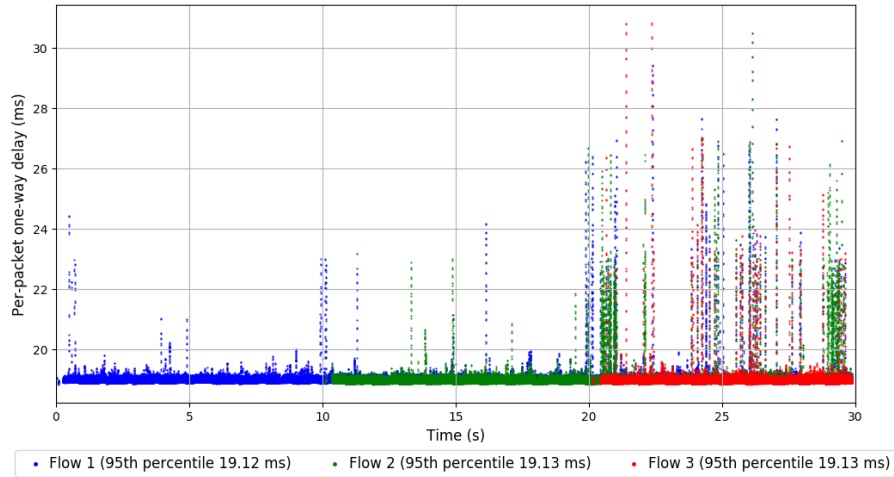
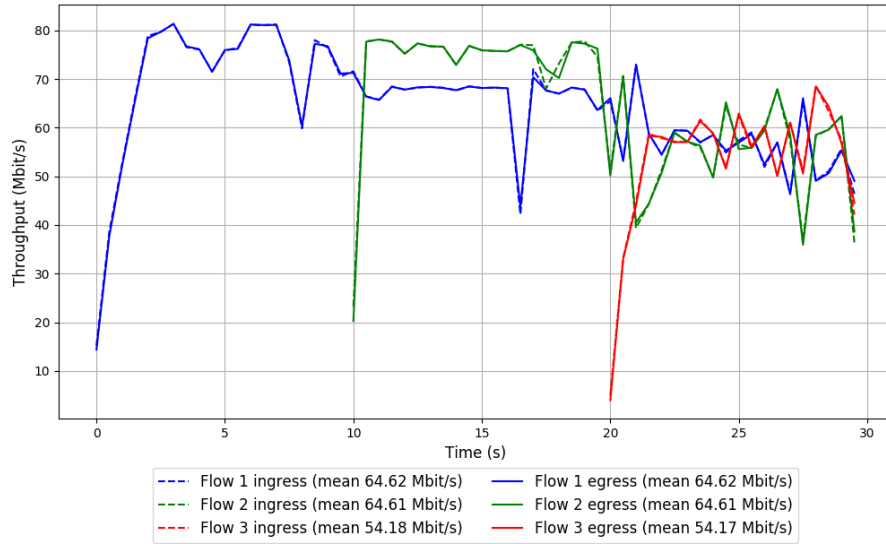
-- Flow 2:

Average throughput: 64.61 Mbit/s  
95th percentile per-packet one-way delay: 19.127 ms  
Loss rate: 0.00%

-- Flow 3:

Average throughput: 54.17 Mbit/s  
95th percentile per-packet one-way delay: 19.129 ms  
Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2017-12-20 08:44:52  
End at: 2017-12-20 08:45:22  
Local clock offset: 1.024 ms  
Remote clock offset: -0.813 ms

# Below is generated by plot.py at 2017-12-20 15:06:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.295 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.313 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.067 ms

Loss rate: 0.00%

-- Flow 3:

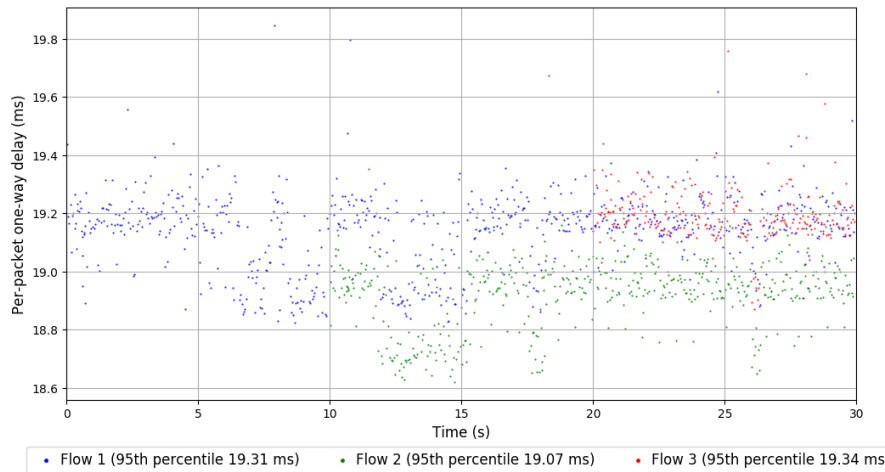
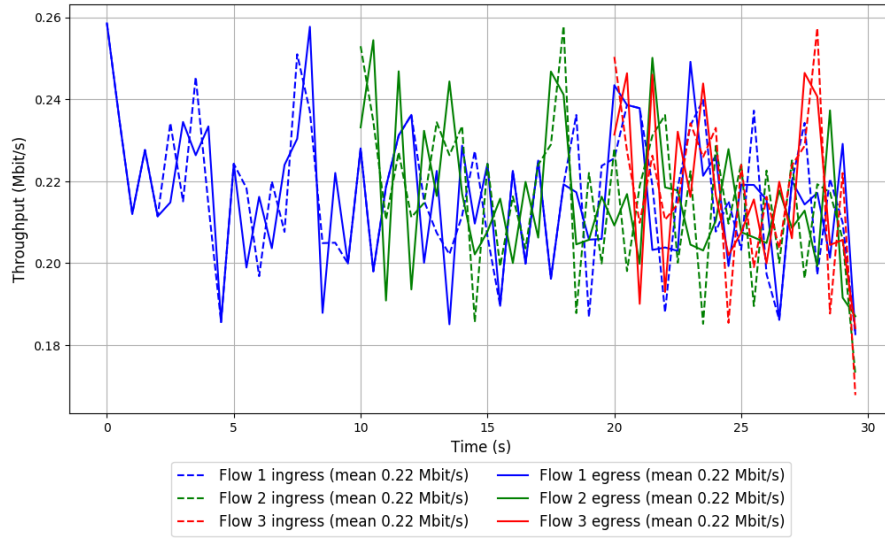
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.336 ms

Loss rate: 0.00%



# Run 1: Report of SCReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2017-12-20 09:06:38  
End at: 2017-12-20 09:07:08  
Local clock offset: 1.046 ms  
Remote clock offset: -0.817 ms

# Below is generated by plot.py at 2017-12-20 15:06:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.052 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.062 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.034 ms

Loss rate: 0.00%

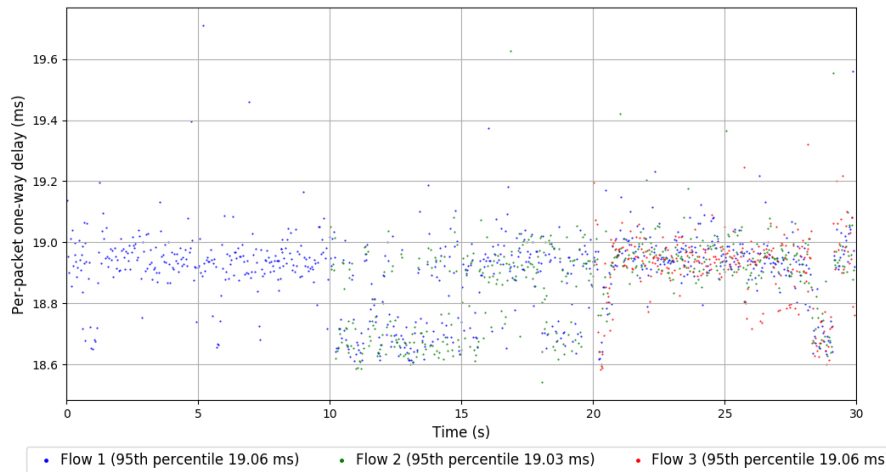
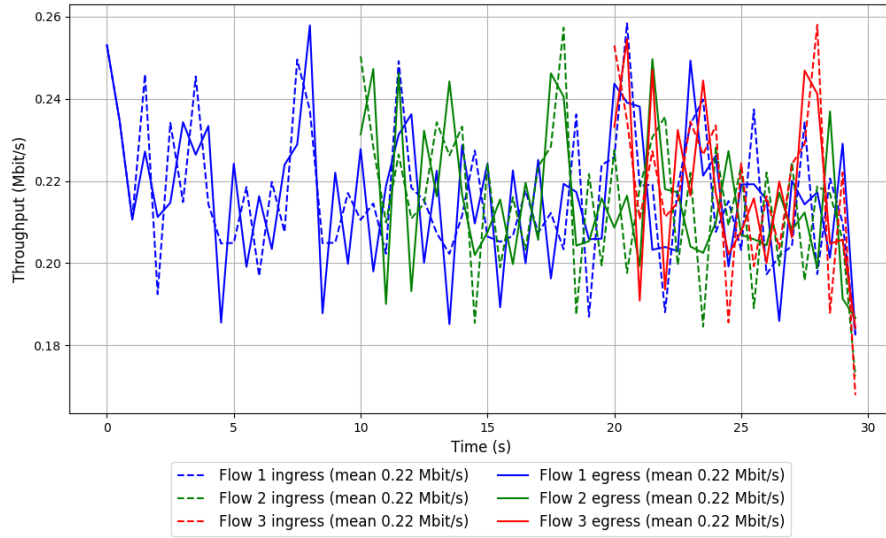
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.061 ms

Loss rate: 0.00%

## Run 2: Report of SCReAM — Data Link



Run 3: Statistics of SCReAM

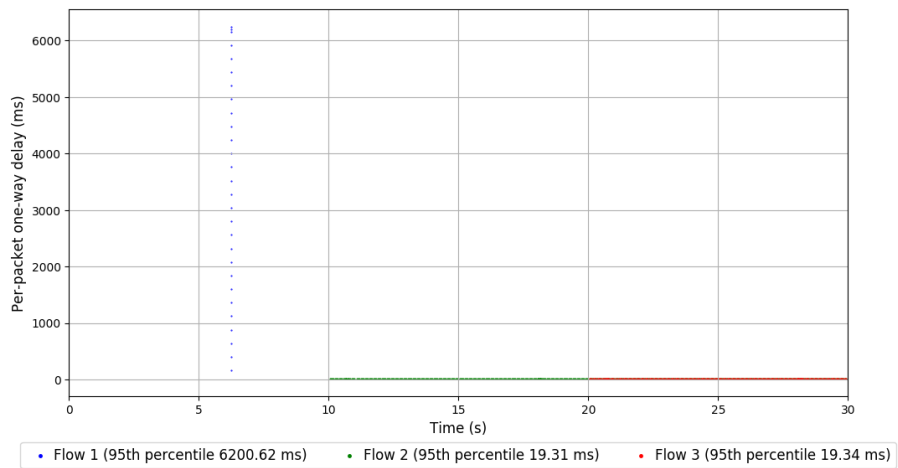
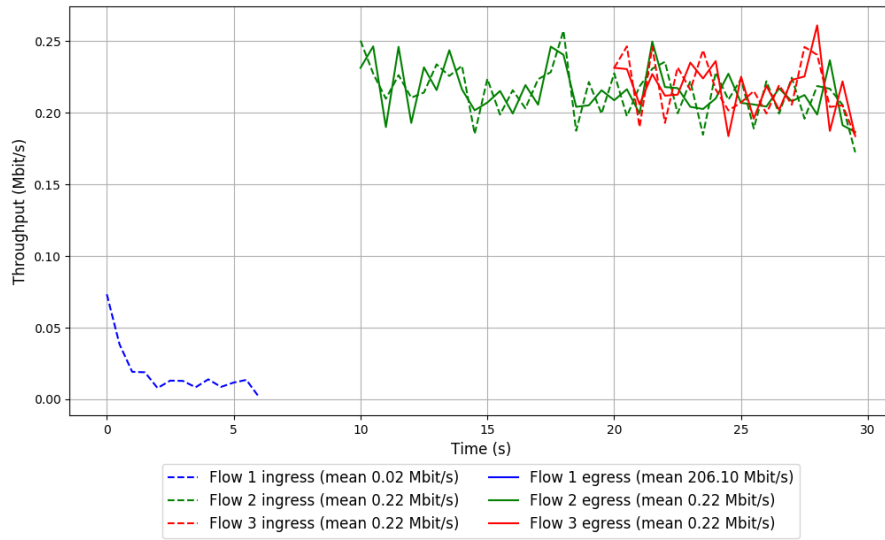
Start at: 2017-12-20 09:28:23

End at: 2017-12-20 09:28:53

Local clock offset: 1.047 ms

Remote clock offset: -1.062 ms

### Run 3: Report of SCReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-12-20 09:50:07  
End at: 2017-12-20 09:50:37  
Local clock offset: 0.855 ms  
Remote clock offset: -0.924 ms

# Below is generated by plot.py at 2017-12-20 15:06:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.429 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.241 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.489 ms

Loss rate: 0.00%

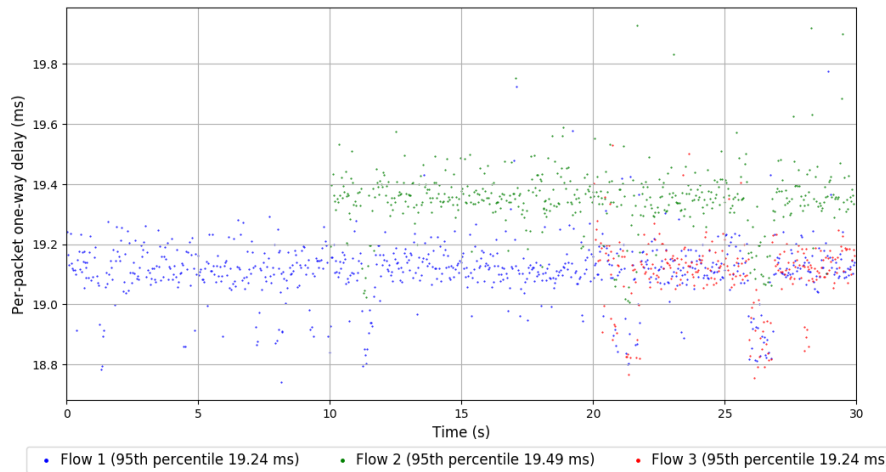
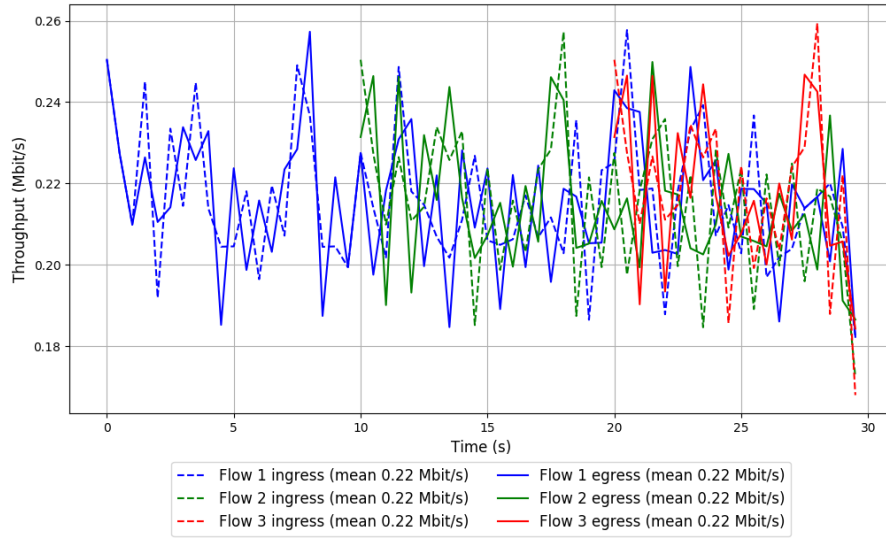
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.236 ms

Loss rate: 0.00%

### Run 4: Report of SCReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-12-20 10:11:53  
End at: 2017-12-20 10:12:23  
Local clock offset: 0.566 ms  
Remote clock offset: -1.116 ms

# Below is generated by plot.py at 2017-12-20 15:06:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.483 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.495 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.438 ms

Loss rate: 0.00%

-- Flow 3:

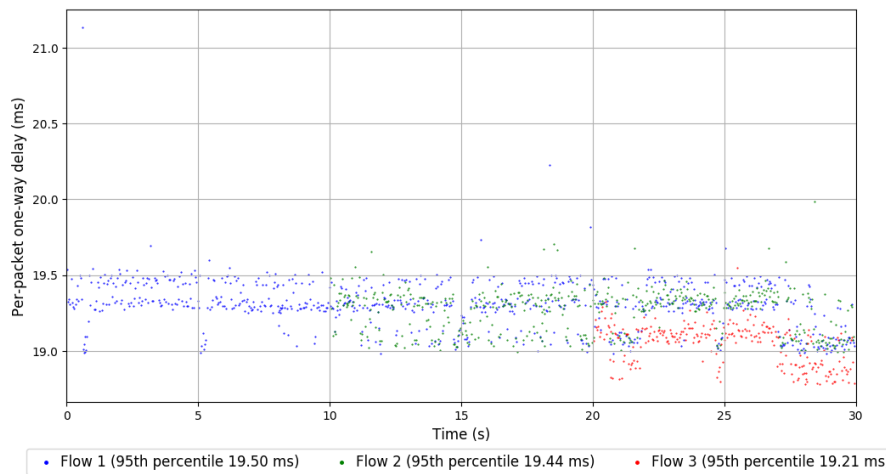
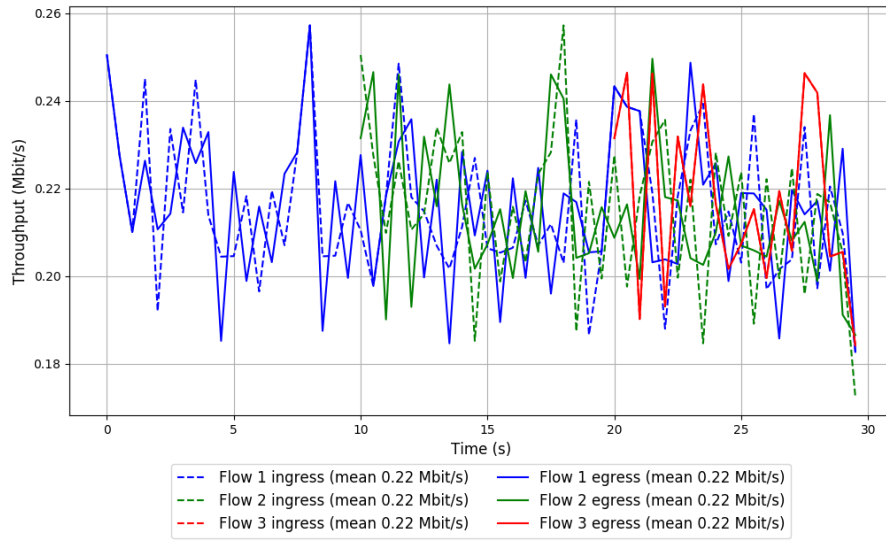
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.215 ms

Loss rate: 0.00%



### Run 5: Report of SCReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-12-20 10:33:47  
End at: 2017-12-20 10:34:17  
Local clock offset: 0.35 ms  
Remote clock offset: -1.235 ms

# Below is generated by plot.py at 2017-12-20 15:06:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.205 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.091 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.645 ms

Loss rate: 0.00%

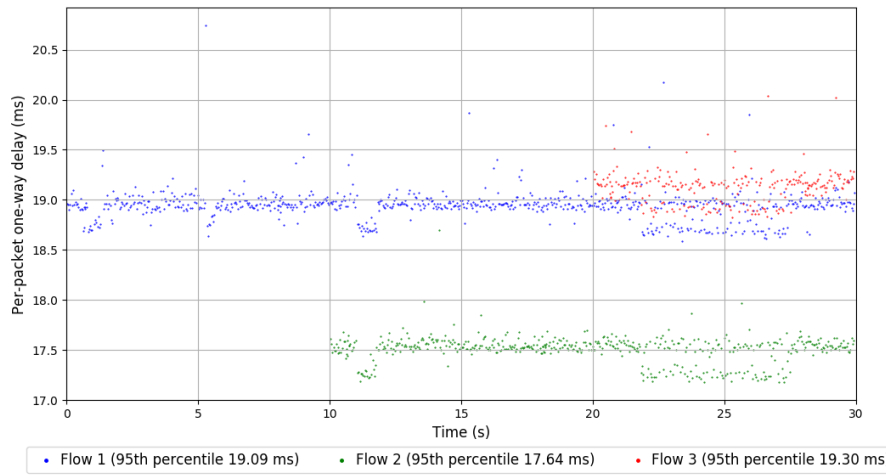
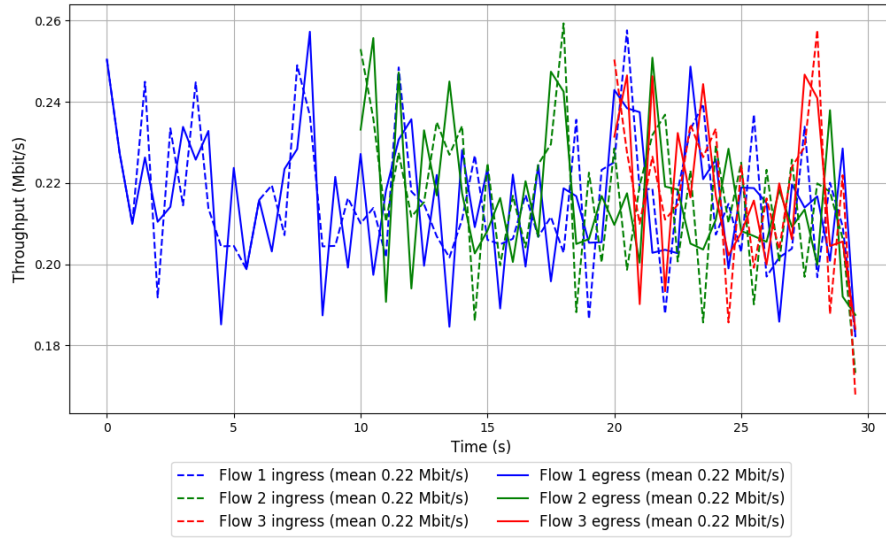
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.305 ms

Loss rate: 0.00%

### Run 6: Report of SCReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-12-20 10:55:46  
End at: 2017-12-20 10:56:16  
Local clock offset: 0.041 ms  
Remote clock offset: -1.079 ms

# Below is generated by plot.py at 2017-12-20 15:06:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.461 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.456 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.491 ms

Loss rate: 0.00%

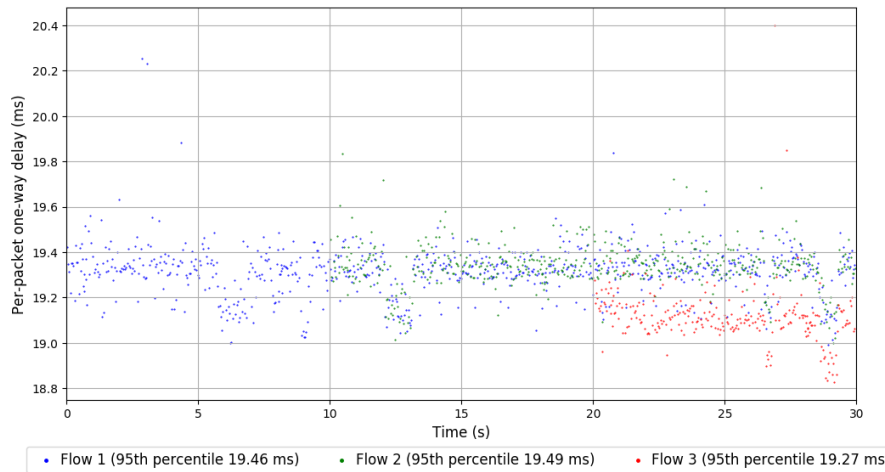
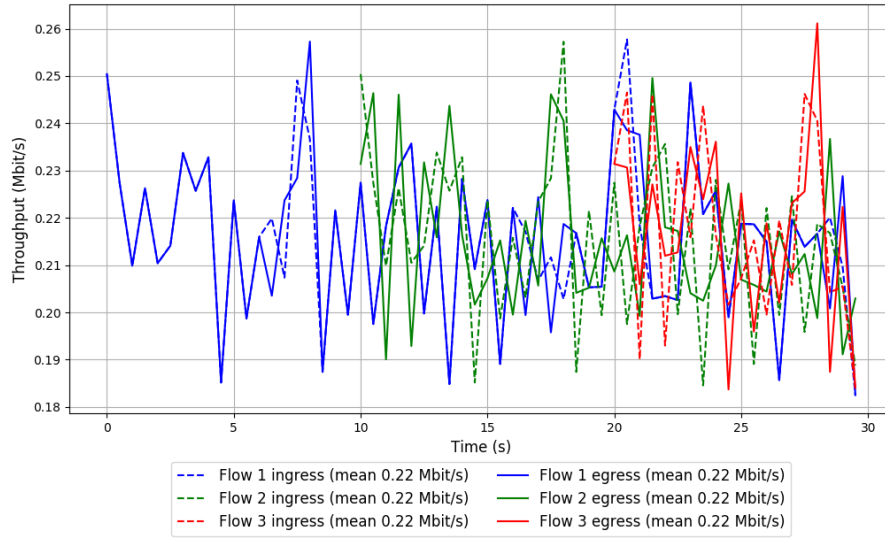
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.269 ms

Loss rate: 0.00%

### Run 7: Report of SCReAM — Data Link

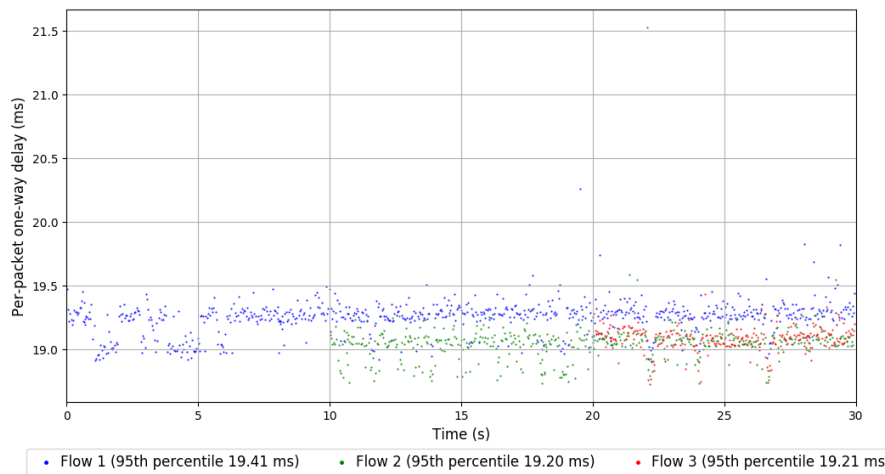
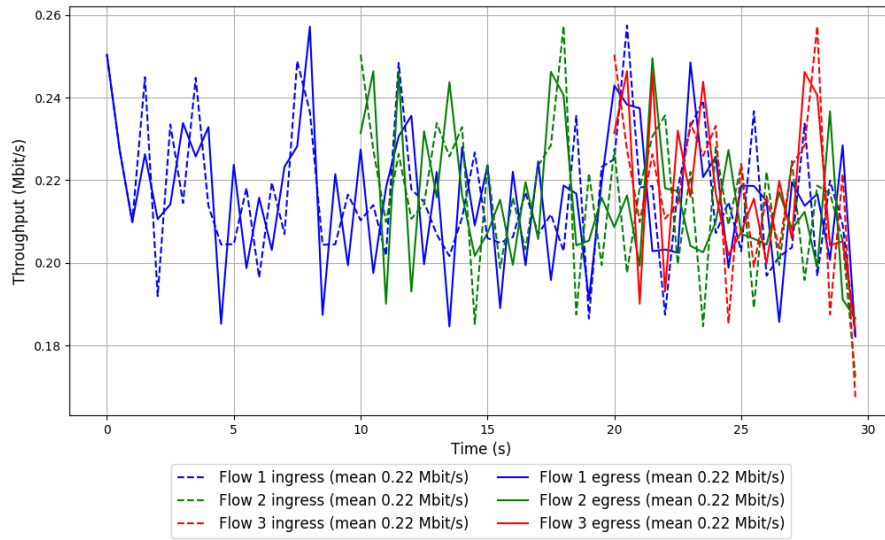


Run 8: Statistics of SCReAM

Start at: 2017-12-20 11:17:36  
End at: 2017-12-20 11:18:06  
Local clock offset: -0.106 ms  
Remote clock offset: -1.206 ms

```
# Below is generated by plot.py at 2017-12-20 15:06:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 19.368 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.415 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.197 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.210 ms
Loss rate: 0.00%
```

### Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-12-20 11:39:23  
End at: 2017-12-20 11:39:53  
Local clock offset: -0.102 ms  
Remote clock offset: -1.708 ms

# Below is generated by plot.py at 2017-12-20 15:06:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.253 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.112 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.143 ms

Loss rate: 0.00%

-- Flow 3:

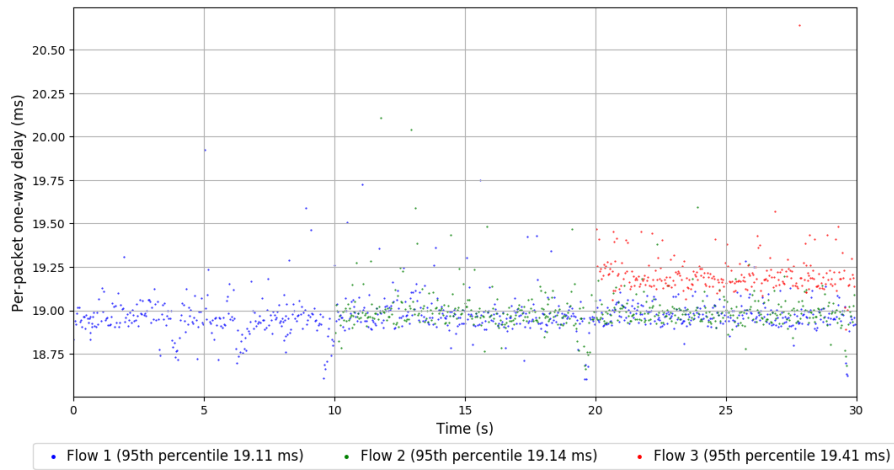
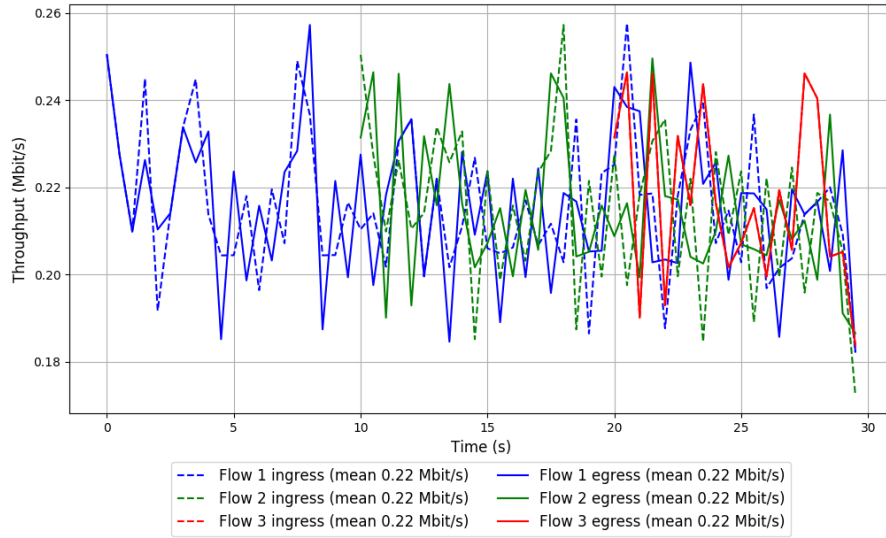
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.409 ms

Loss rate: 0.00%



### Run 9: Report of SCReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-12-20 12:01:29  
End at: 2017-12-20 12:01:59  
Local clock offset: -0.12 ms  
Remote clock offset: -2.132 ms

# Below is generated by plot.py at 2017-12-20 15:06:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.318 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.125 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.348 ms

Loss rate: 0.00%

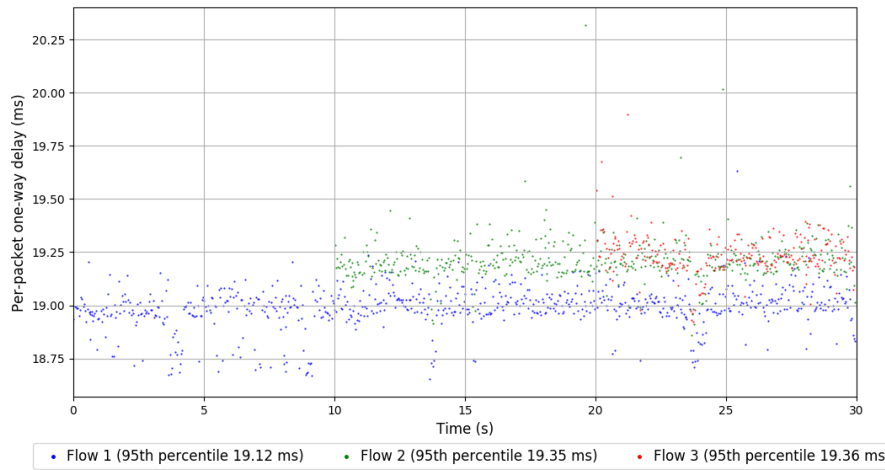
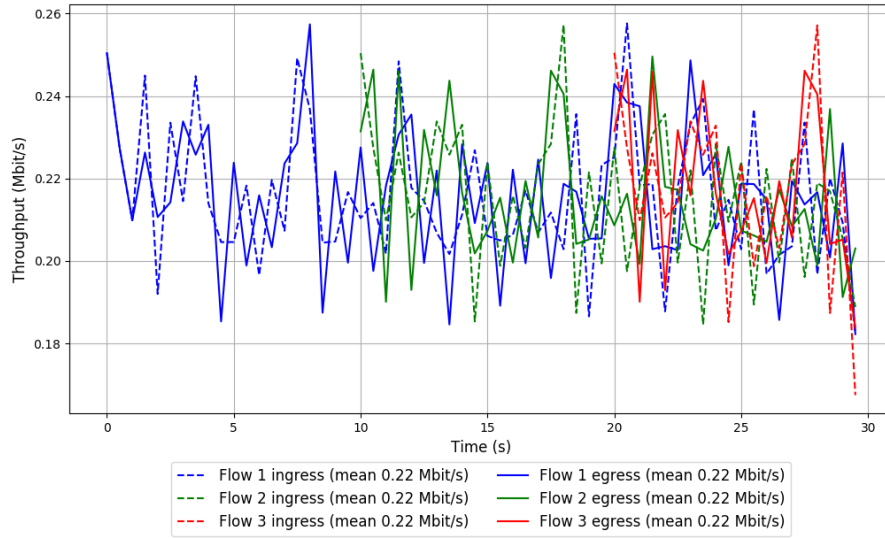
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.358 ms

Loss rate: 0.00%

### Run 10: Report of SCReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2017-12-20 08:58:10  
End at: 2017-12-20 08:58:40  
Local clock offset: 1.022 ms  
Remote clock offset: -0.743 ms

# Below is generated by plot.py at 2017-12-20 15:06:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.34 Mbit/s  
95th percentile per-packet one-way delay: 19.848 ms  
Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.33 Mbit/s  
95th percentile per-packet one-way delay: 19.764 ms  
Loss rate: 0.00%

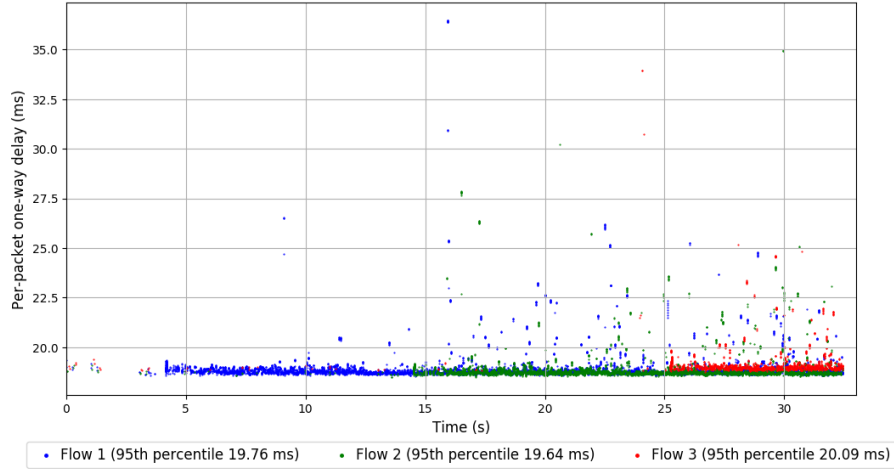
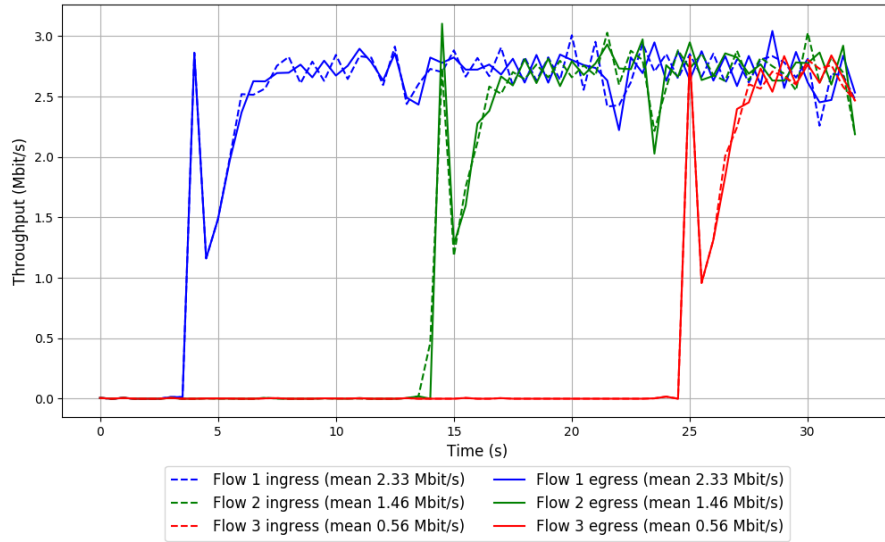
-- Flow 2:

Average throughput: 1.46 Mbit/s  
95th percentile per-packet one-way delay: 19.644 ms  
Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.56 Mbit/s  
95th percentile per-packet one-way delay: 20.089 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-12-20 09:20:00  
End at: 2017-12-20 09:20:30  
Local clock offset: 1.064 ms  
Remote clock offset: -1.086 ms

# Below is generated by plot.py at 2017-12-20 15:06:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.32 Mbit/s

95th percentile per-packet one-way delay: 19.275 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 19.119 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.46 Mbit/s

95th percentile per-packet one-way delay: 19.445 ms

Loss rate: 0.00%

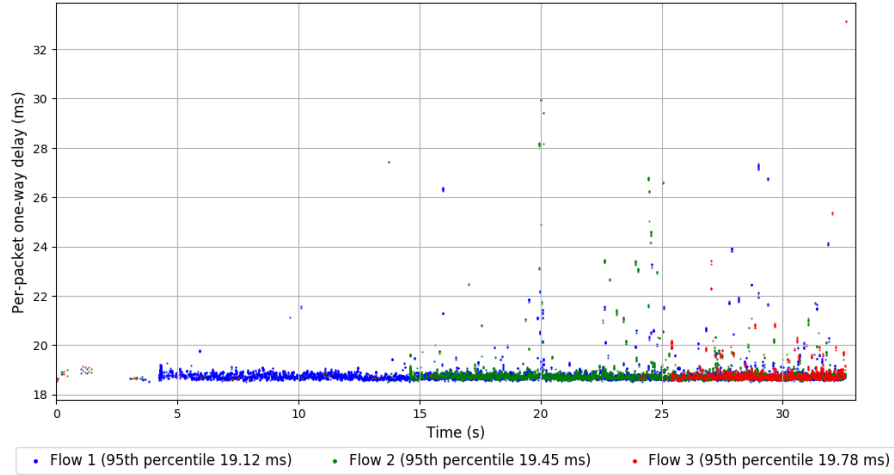
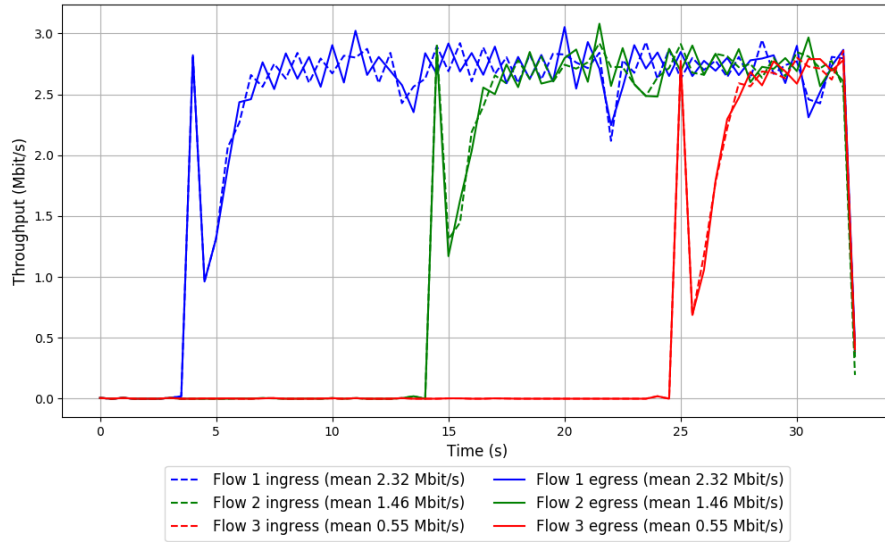
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 19.777 ms

Loss rate: 0.16%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-12-20 09:41:49  
End at: 2017-12-20 09:42:19  
Local clock offset: 0.975 ms  
Remote clock offset: -0.987 ms

# Below is generated by plot.py at 2017-12-20 15:06:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.35 Mbit/s  
95th percentile per-packet one-way delay: 19.463 ms  
Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.32 Mbit/s  
95th percentile per-packet one-way delay: 19.327 ms  
Loss rate: 0.00%

-- Flow 2:

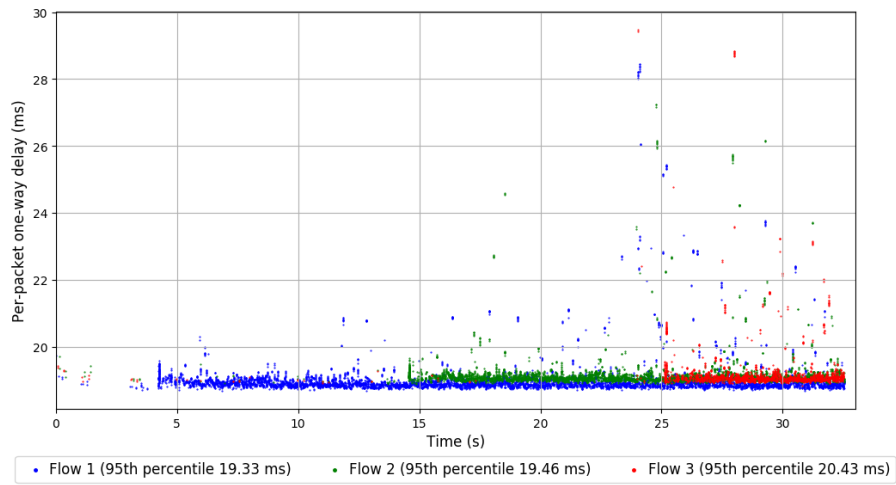
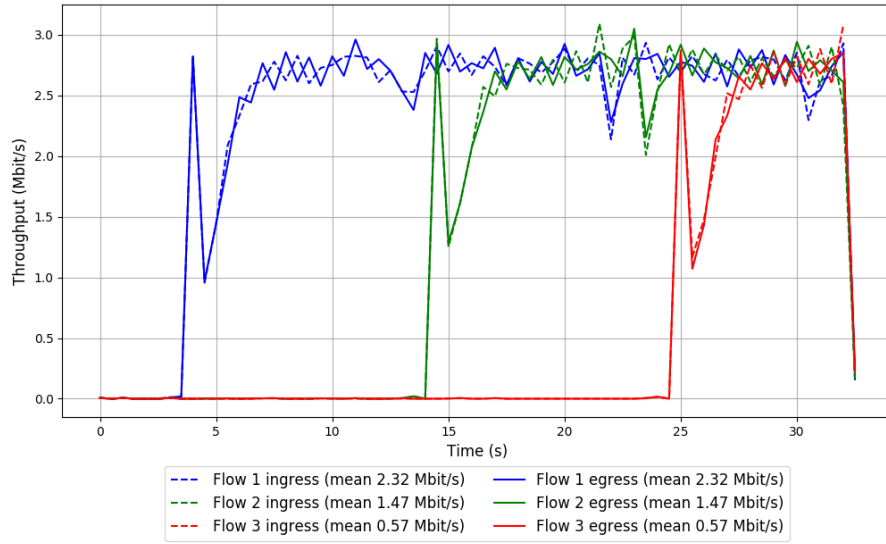
Average throughput: 1.47 Mbit/s  
95th percentile per-packet one-way delay: 19.456 ms  
Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.57 Mbit/s  
95th percentile per-packet one-way delay: 20.425 ms  
Loss rate: 0.00%



### Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-12-20 10:03:33  
End at: 2017-12-20 10:04:03  
Local clock offset: 0.768 ms  
Remote clock offset: -1.075 ms

# Below is generated by plot.py at 2017-12-20 15:06:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.31 Mbit/s

95th percentile per-packet one-way delay: 20.194 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 20.161 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.46 Mbit/s

95th percentile per-packet one-way delay: 20.519 ms

Loss rate: 0.00%

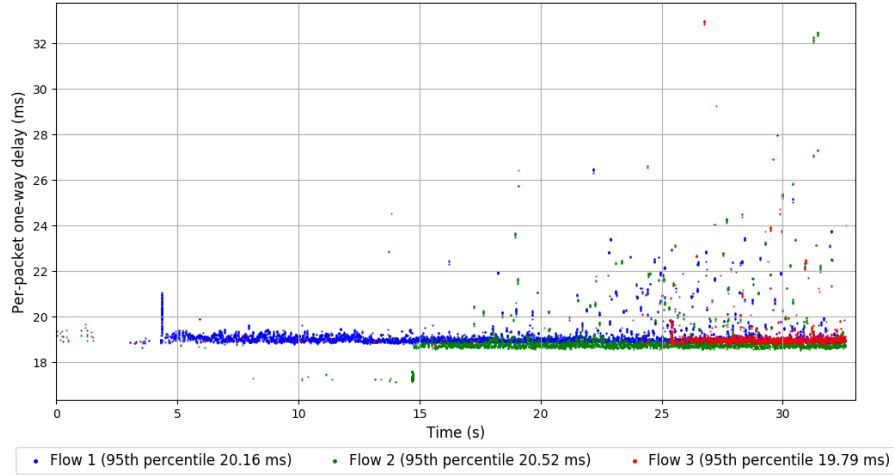
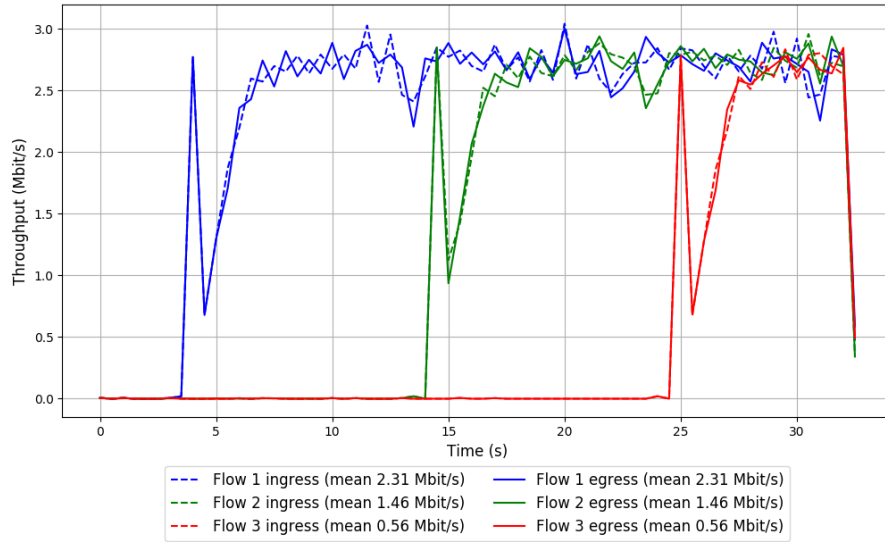
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 19.789 ms

Loss rate: 0.00%

### Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-12-20 10:25:27  
End at: 2017-12-20 10:25:57  
Local clock offset: 0.302 ms  
Remote clock offset: -1.415 ms

# Below is generated by plot.py at 2017-12-20 15:06:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.33 Mbit/s  
95th percentile per-packet one-way delay: 20.238 ms  
Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.31 Mbit/s  
95th percentile per-packet one-way delay: 19.921 ms  
Loss rate: 0.00%

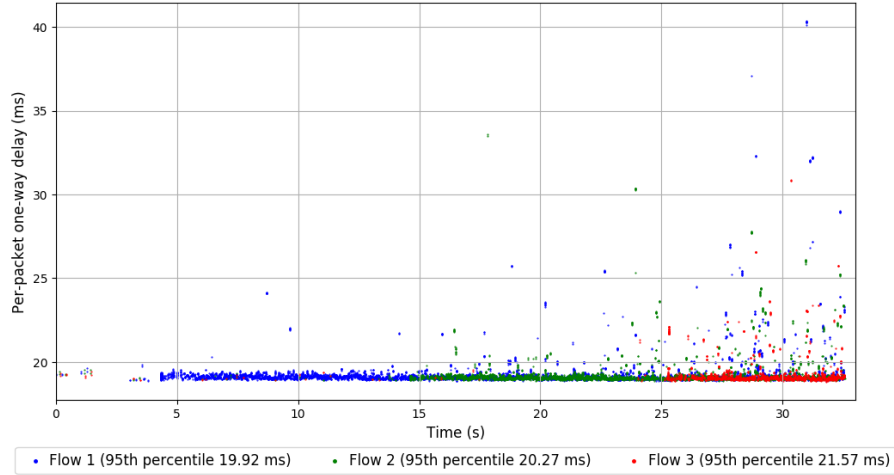
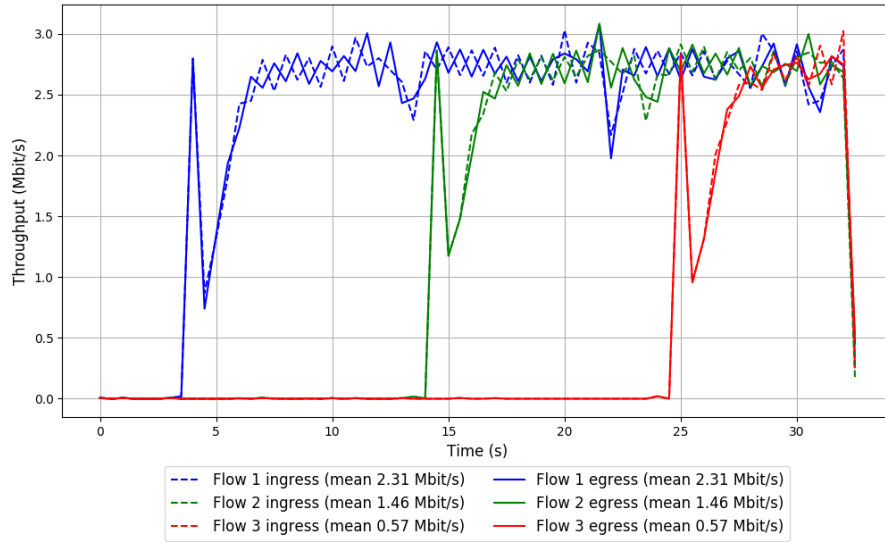
-- Flow 2:

Average throughput: 1.46 Mbit/s  
95th percentile per-packet one-way delay: 20.270 ms  
Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.57 Mbit/s  
95th percentile per-packet one-way delay: 21.570 ms  
Loss rate: 0.00%

### Run 5: Report of WebRTC media — Data Link

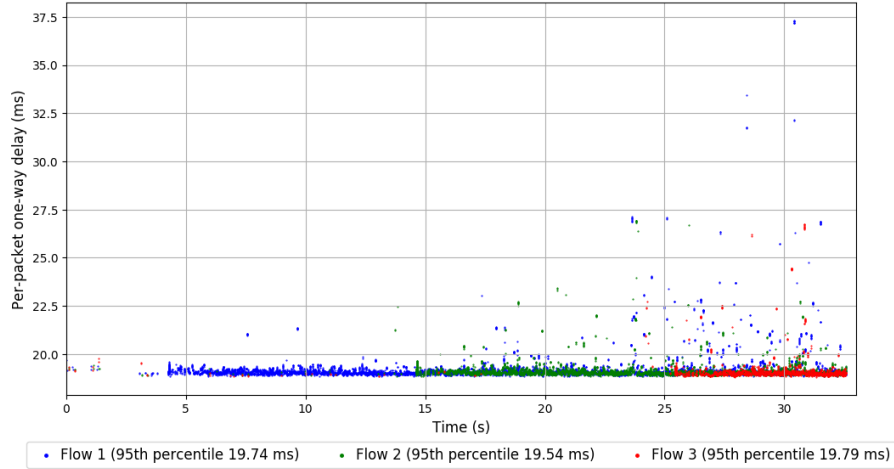
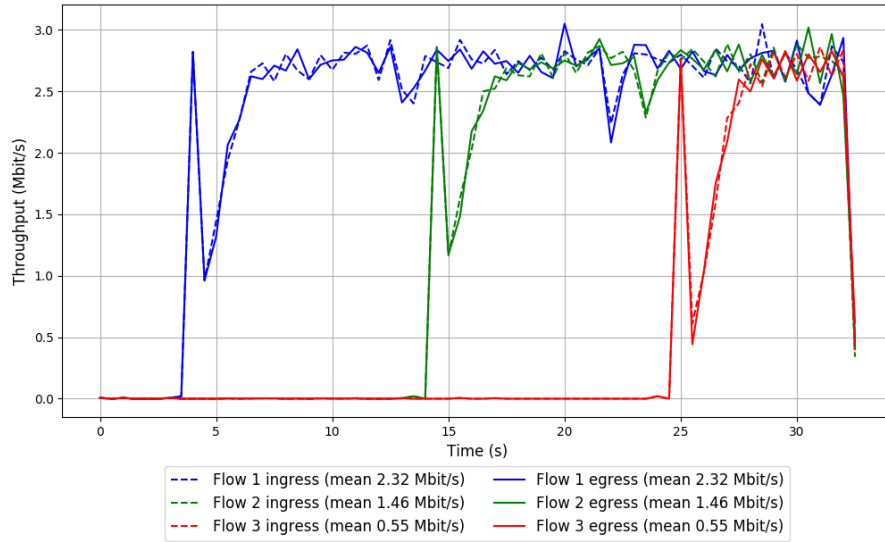


Run 6: Statistics of WebRTC media

Start at: 2017-12-20 10:47:08  
End at: 2017-12-20 10:47:38  
Local clock offset: 0.131 ms  
Remote clock offset: -1.072 ms

```
# Below is generated by plot.py at 2017-12-20 15:06:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.32 Mbit/s
95th percentile per-packet one-way delay: 19.639 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 19.742 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 19.539 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 19.791 ms
Loss rate: 0.00%
```

Run 6: Report of WebRTC media — Data Link



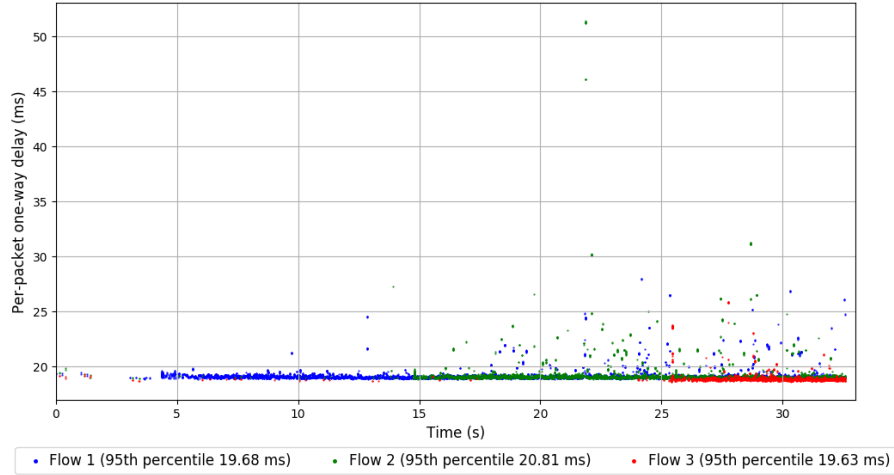
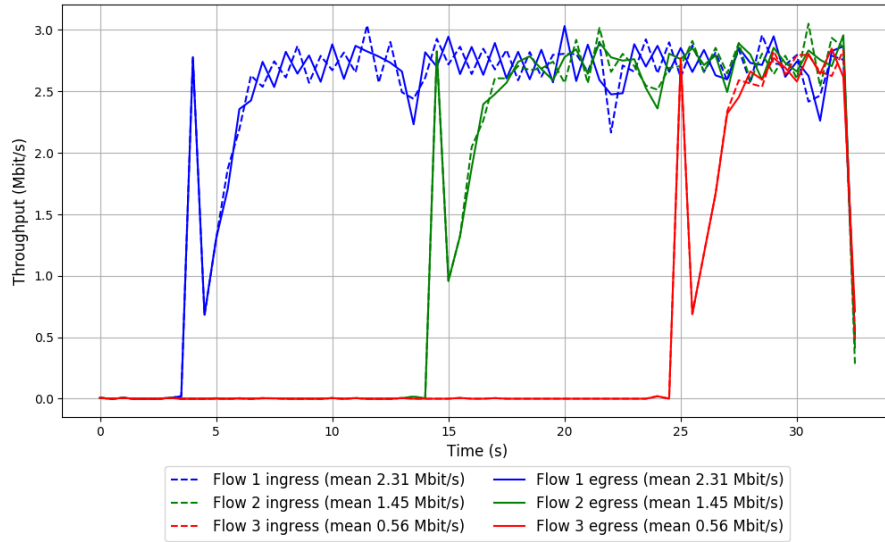
Run 7: Statistics of WebRTC media

Start at: 2017-12-20 11:09:13  
End at: 2017-12-20 11:09:43  
Local clock offset: 0.063 ms  
Remote clock offset: -1.152 ms

```
# Below is generated by plot.py at 2017-12-20 15:06:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 19.913 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 19.683 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.45 Mbit/s
95th percentile per-packet one-way delay: 20.807 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 19.632 ms
Loss rate: 0.00%
```



Run 7: Report of WebRTC media — Data Link

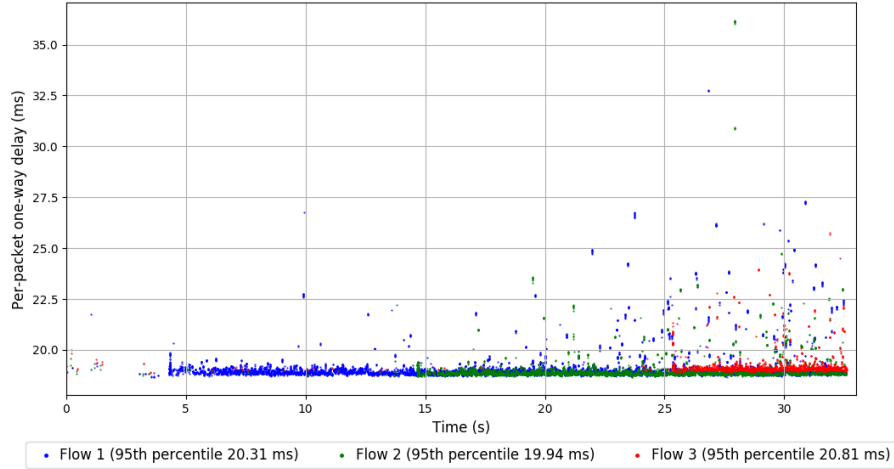
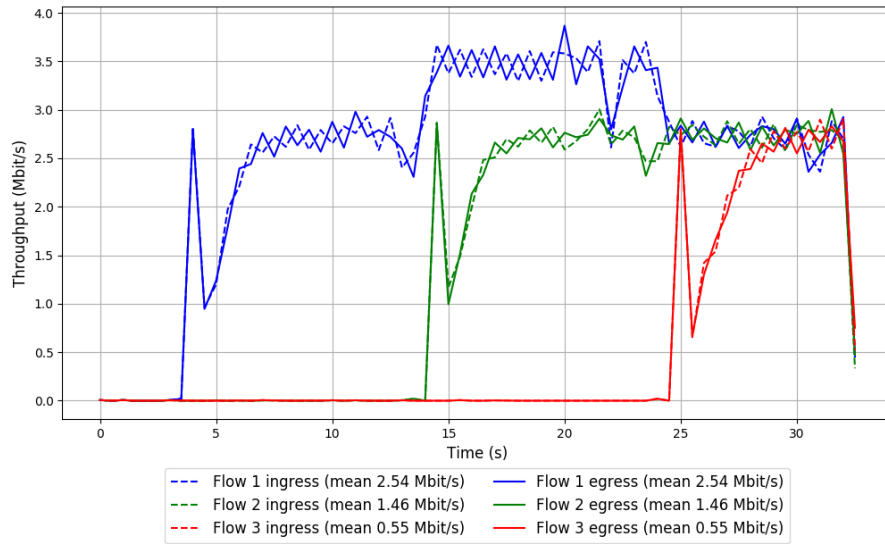


Run 8: Statistics of WebRTC media

Start at: 2017-12-20 11:30:46  
End at: 2017-12-20 11:31:16  
Local clock offset: -0.056 ms  
Remote clock offset: -1.451 ms

```
# Below is generated by plot.py at 2017-12-20 15:06:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.54 Mbit/s
95th percentile per-packet one-way delay: 20.251 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.54 Mbit/s
95th percentile per-packet one-way delay: 20.310 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 19.937 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 20.810 ms
Loss rate: 0.00%
```

Run 8: Report of WebRTC media — Data Link

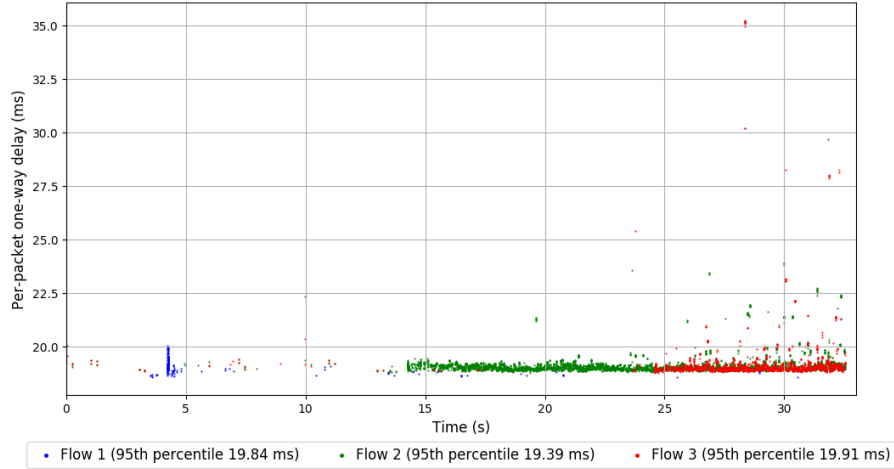
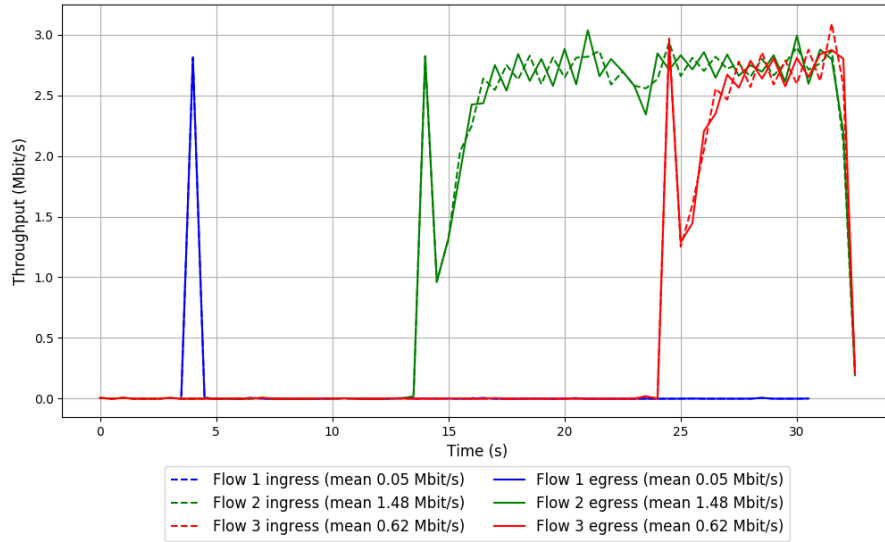


Run 9: Statistics of WebRTC media

Start at: 2017-12-20 11:52:54  
End at: 2017-12-20 11:53:24  
Local clock offset: -0.108 ms  
Remote clock offset: -1.998 ms

```
# Below is generated by plot.py at 2017-12-20 15:06:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.15 Mbit/s
95th percentile per-packet one-way delay: 19.580 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 19.839 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: 19.391 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 19.913 ms
Loss rate: 0.00%
```

Run 9: Report of WebRTC media — Data Link

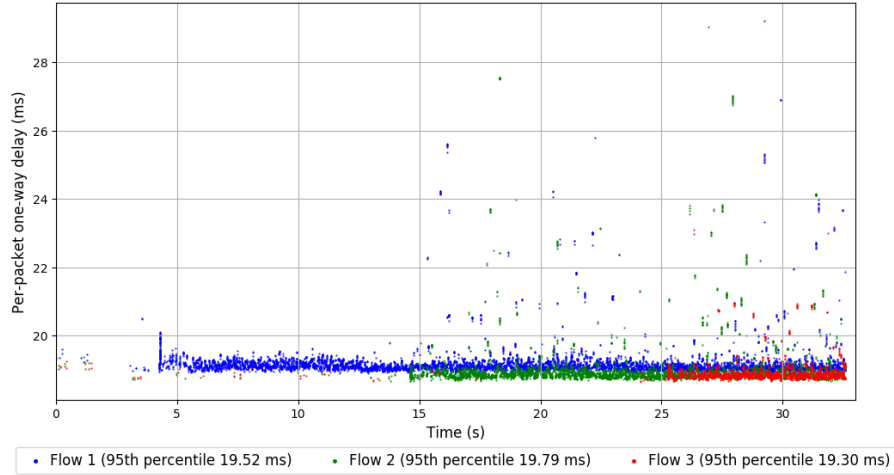
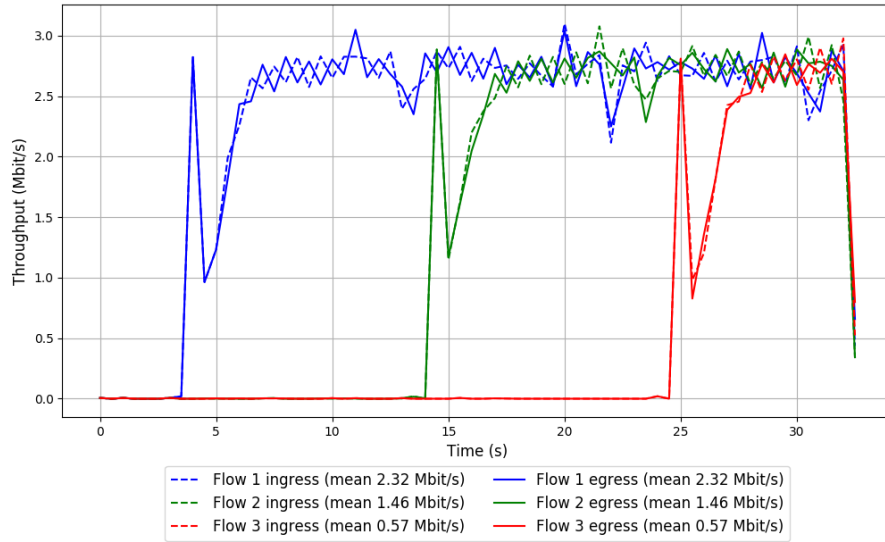


Run 10: Statistics of WebRTC media

Start at: 2017-12-20 12:14:53  
End at: 2017-12-20 12:15:23  
Local clock offset: -0.225 ms  
Remote clock offset: -2.046 ms

```
# Below is generated by plot.py at 2017-12-20 15:06:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: 19.552 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 19.515 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 19.787 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 19.301 ms
Loss rate: 0.00%
```

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-12-20 08:42:14  
End at: 2017-12-20 08:42:44  
Local clock offset: 0.953 ms  
Remote clock offset: -0.808 ms

# Below is generated by plot.py at 2017-12-20 15:06:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 49.17 Mbit/s  
95th percentile per-packet one-way delay: 22.047 ms  
Loss rate: 0.02%

-- Flow 1:

Average throughput: 24.72 Mbit/s  
95th percentile per-packet one-way delay: 21.942 ms  
Loss rate: 0.02%

-- Flow 2:

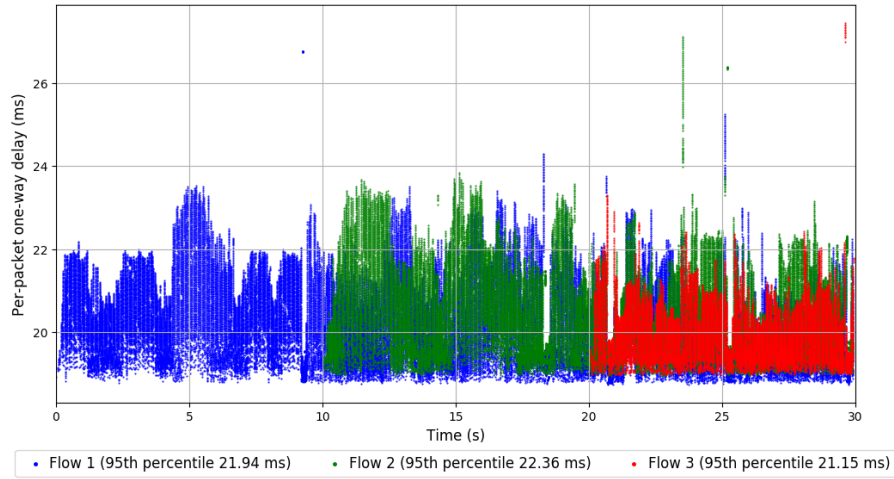
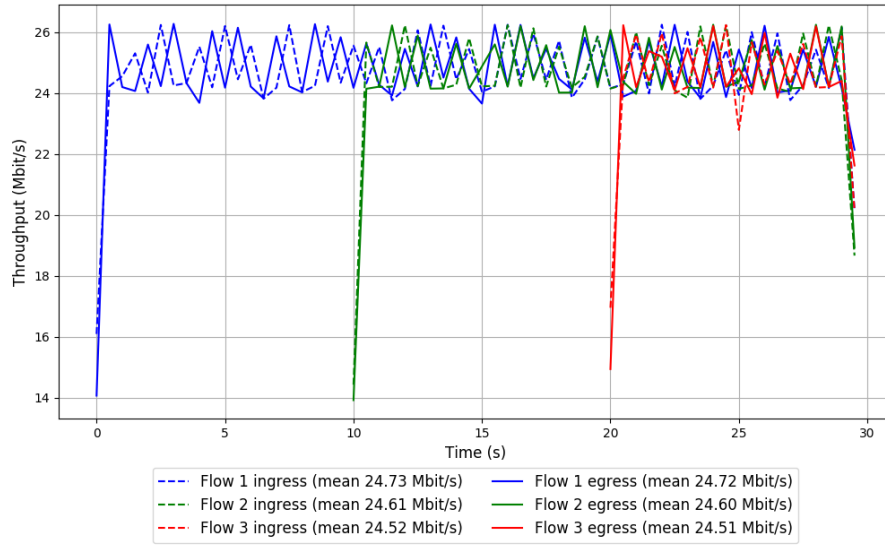
Average throughput: 24.60 Mbit/s  
95th percentile per-packet one-way delay: 22.359 ms  
Loss rate: 0.02%

-- Flow 3:

Average throughput: 24.51 Mbit/s  
95th percentile per-packet one-way delay: 21.151 ms  
Loss rate: 0.00%



Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-12-20 09:03:52  
End at: 2017-12-20 09:04:22  
Local clock offset: 1.041 ms  
Remote clock offset: -0.699 ms

# Below is generated by plot.py at 2017-12-20 15:06:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 49.18 Mbit/s  
95th percentile per-packet one-way delay: 22.203 ms  
Loss rate: 0.03%

-- Flow 1:

Average throughput: 24.68 Mbit/s  
95th percentile per-packet one-way delay: 22.116 ms  
Loss rate: 0.04%

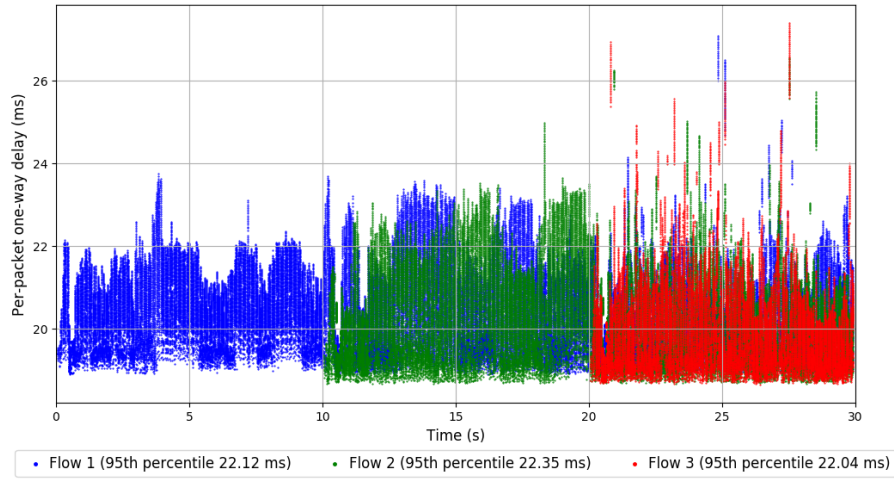
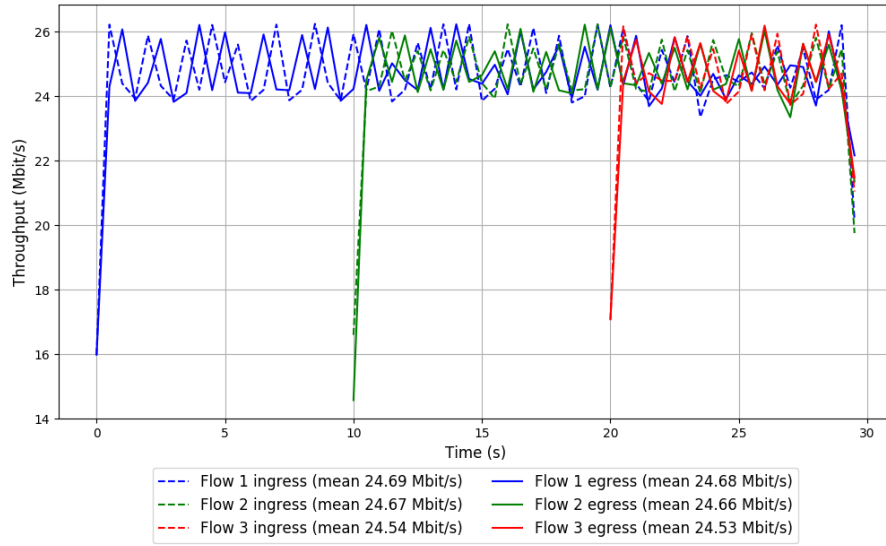
-- Flow 2:

Average throughput: 24.66 Mbit/s  
95th percentile per-packet one-way delay: 22.348 ms  
Loss rate: 0.03%

-- Flow 3:

Average throughput: 24.53 Mbit/s  
95th percentile per-packet one-way delay: 22.043 ms  
Loss rate: 0.01%

## Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-12-20 09:25:42  
End at: 2017-12-20 09:26:12  
Local clock offset: 1.068 ms  
Remote clock offset: -0.961 ms

# Below is generated by plot.py at 2017-12-20 15:06:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 49.21 Mbit/s  
95th percentile per-packet one-way delay: 22.079 ms  
Loss rate: 0.01%

-- Flow 1:

Average throughput: 24.76 Mbit/s  
95th percentile per-packet one-way delay: 22.017 ms  
Loss rate: 0.00%

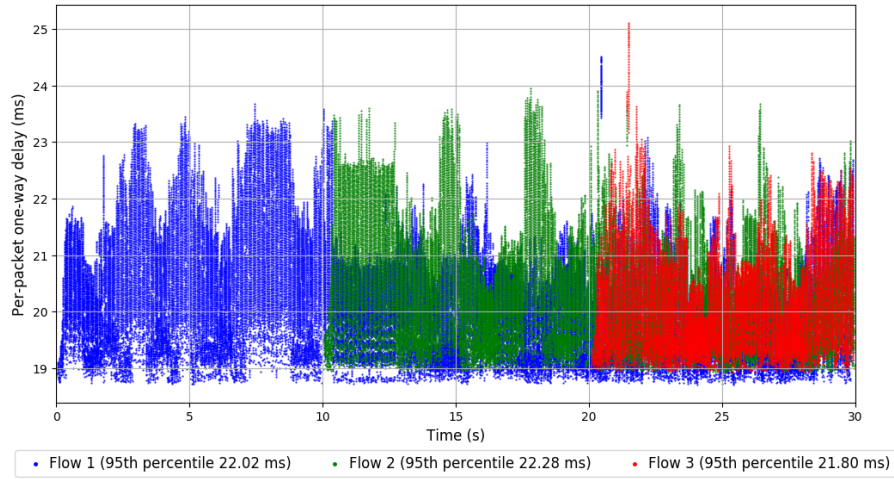
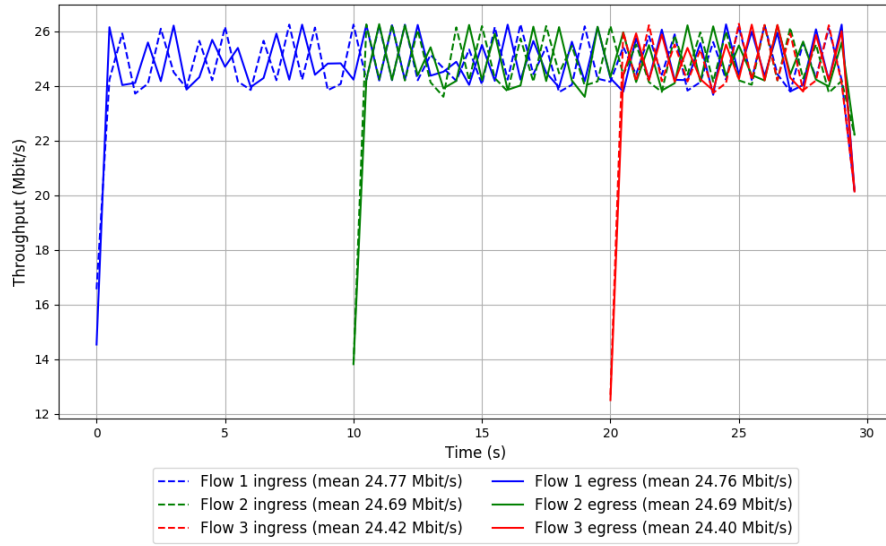
-- Flow 2:

Average throughput: 24.69 Mbit/s  
95th percentile per-packet one-way delay: 22.284 ms  
Loss rate: 0.00%

-- Flow 3:

Average throughput: 24.40 Mbit/s  
95th percentile per-packet one-way delay: 21.805 ms  
Loss rate: 0.03%

### Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-12-20 09:47:30

End at: 2017-12-20 09:48:00

Local clock offset: 0.943 ms

Remote clock offset: -0.95 ms

# Below is generated by plot.py at 2017-12-20 15:06:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 49.17 Mbit/s

95th percentile per-packet one-way delay: 21.878 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 24.67 Mbit/s

95th percentile per-packet one-way delay: 22.197 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 24.72 Mbit/s

95th percentile per-packet one-way delay: 20.299 ms

Loss rate: 0.00%

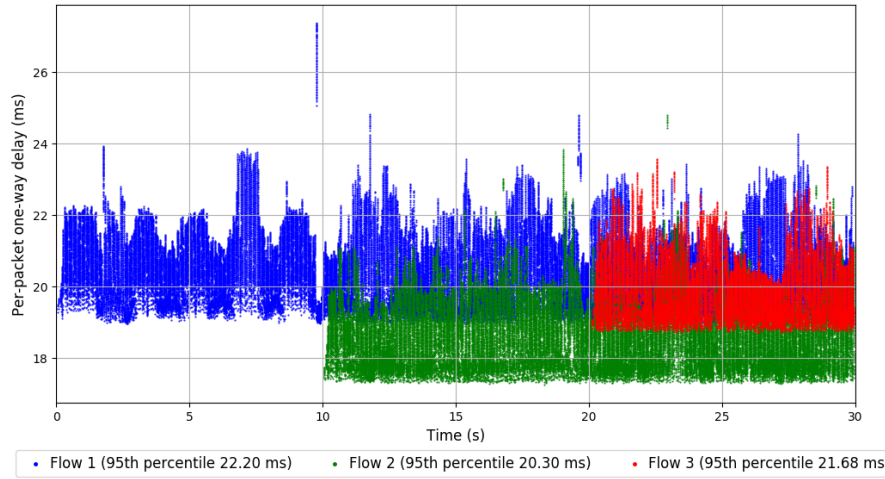
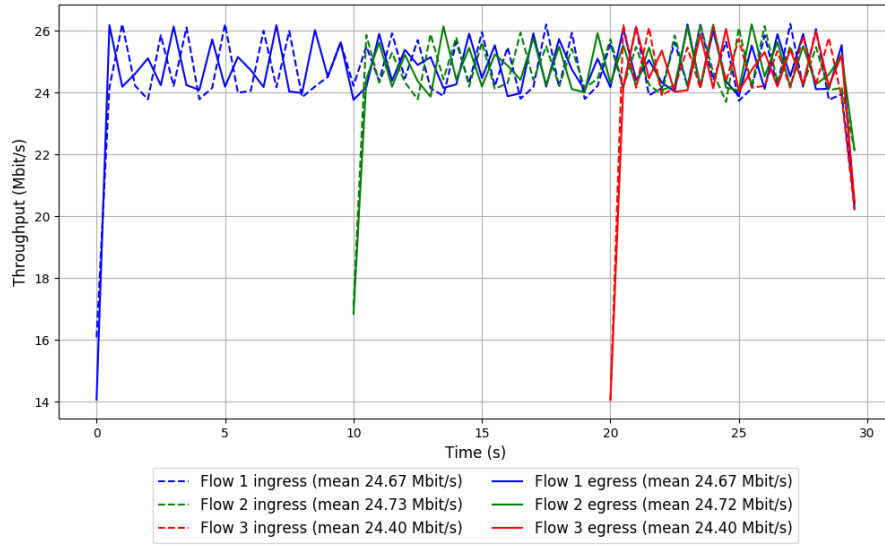
-- Flow 3:

Average throughput: 24.40 Mbit/s

95th percentile per-packet one-way delay: 21.685 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-12-20 10:09:14  
End at: 2017-12-20 10:09:44  
Local clock offset: 0.551 ms  
Remote clock offset: -1.131 ms

# Below is generated by plot.py at 2017-12-20 15:06:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 49.20 Mbit/s  
95th percentile per-packet one-way delay: 22.093 ms  
Loss rate: 0.01%

-- Flow 1:

Average throughput: 24.74 Mbit/s  
95th percentile per-packet one-way delay: 22.165 ms  
Loss rate: 0.00%

-- Flow 2:

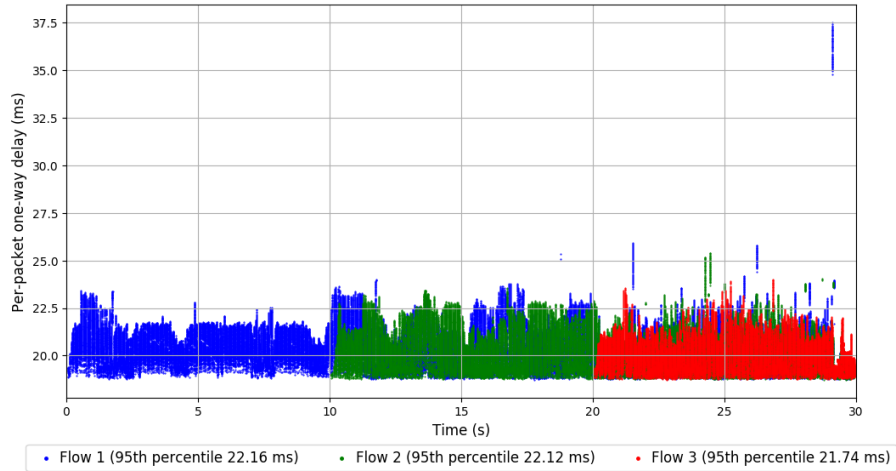
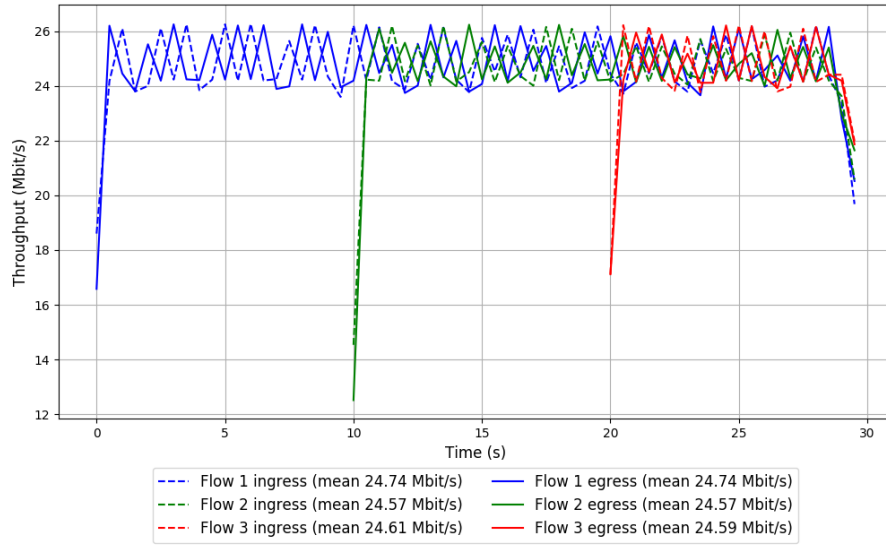
Average throughput: 24.57 Mbit/s  
95th percentile per-packet one-way delay: 22.123 ms  
Loss rate: 0.00%

-- Flow 3:

Average throughput: 24.59 Mbit/s  
95th percentile per-packet one-way delay: 21.737 ms  
Loss rate: 0.07%



### Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-12-20 10:31:06  
End at: 2017-12-20 10:31:36  
Local clock offset: 0.326 ms  
Remote clock offset: -1.178 ms

# Below is generated by plot.py at 2017-12-20 15:06:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 49.07 Mbit/s  
95th percentile per-packet one-way delay: 22.084 ms  
Loss rate: 0.07%

-- Flow 1:

Average throughput: 24.68 Mbit/s  
95th percentile per-packet one-way delay: 22.291 ms  
Loss rate: 0.03%

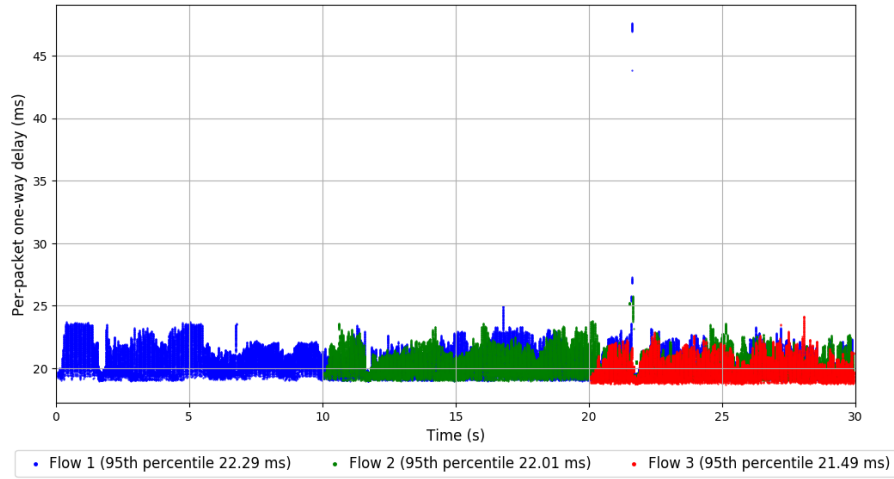
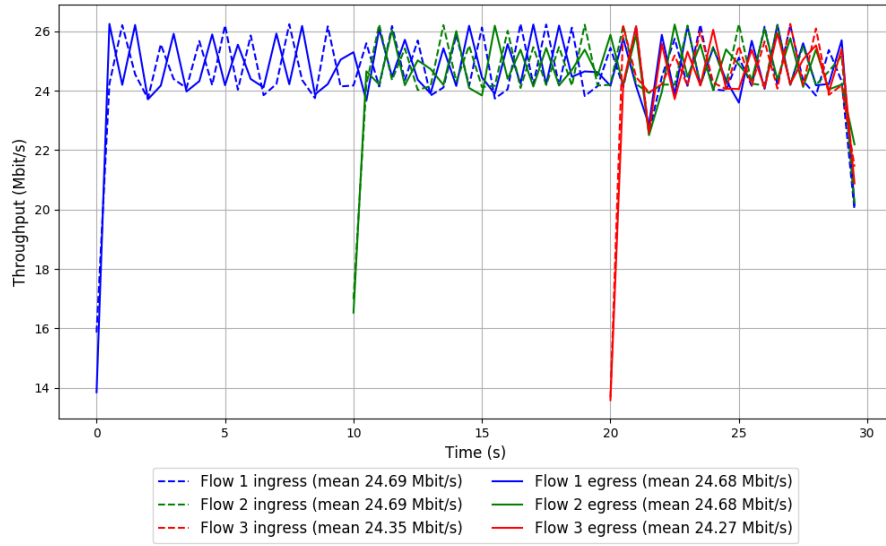
-- Flow 2:

Average throughput: 24.68 Mbit/s  
95th percentile per-packet one-way delay: 22.008 ms  
Loss rate: 0.00%

-- Flow 3:

Average throughput: 24.27 Mbit/s  
95th percentile per-packet one-way delay: 21.494 ms  
Loss rate: 0.33%

### Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-12-20 10:53:08  
End at: 2017-12-20 10:53:39  
Local clock offset: 0.09 ms  
Remote clock offset: -1.076 ms

# Below is generated by plot.py at 2017-12-20 15:06:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 49.19 Mbit/s  
95th percentile per-packet one-way delay: 21.932 ms  
Loss rate: 0.00%

-- Flow 1:

Average throughput: 24.75 Mbit/s  
95th percentile per-packet one-way delay: 21.963 ms  
Loss rate: 0.00%

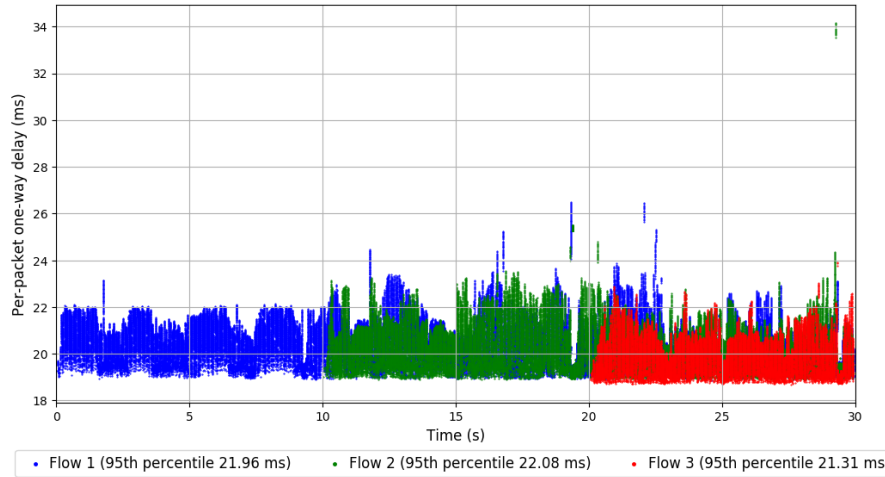
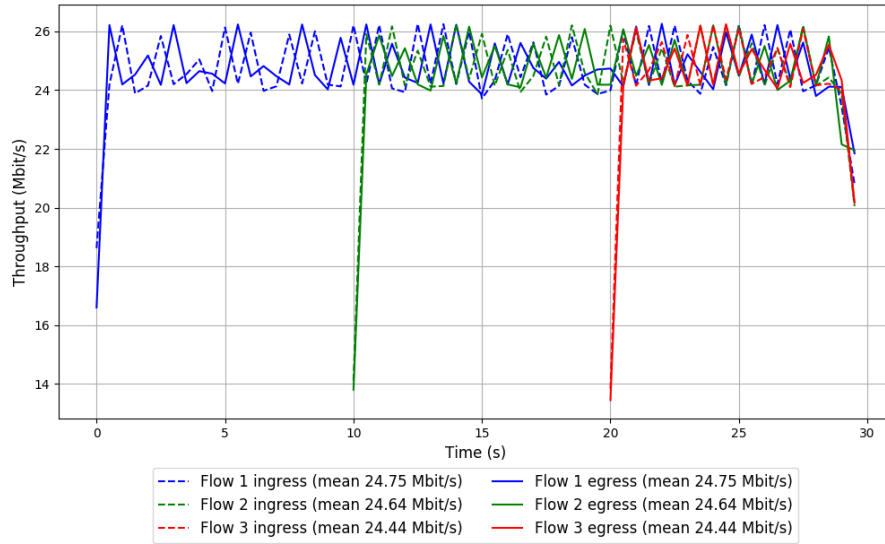
-- Flow 2:

Average throughput: 24.64 Mbit/s  
95th percentile per-packet one-way delay: 22.084 ms  
Loss rate: 0.01%

-- Flow 3:

Average throughput: 24.44 Mbit/s  
95th percentile per-packet one-way delay: 21.311 ms  
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-12-20 11:14:57  
End at: 2017-12-20 11:15:27  
Local clock offset: 0.037 ms  
Remote clock offset: -1.144 ms

# Below is generated by plot.py at 2017-12-20 15:06:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 49.28 Mbit/s  
95th percentile per-packet one-way delay: 21.863 ms  
Loss rate: 0.03%

-- Flow 1:

Average throughput: 24.78 Mbit/s  
95th percentile per-packet one-way delay: 22.017 ms  
Loss rate: 0.03%

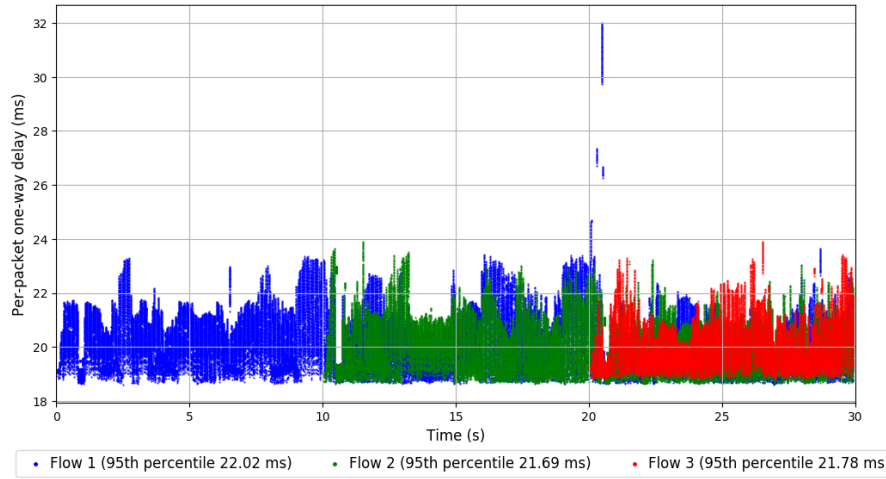
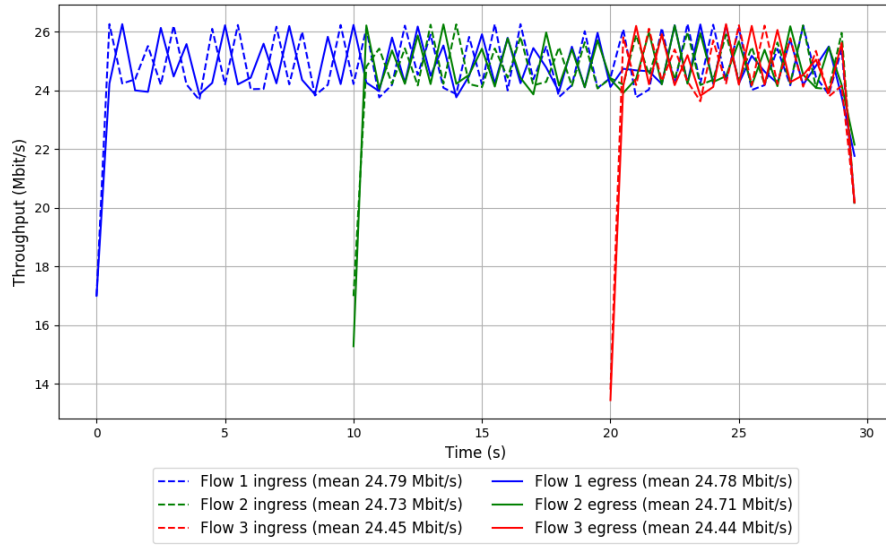
-- Flow 2:

Average throughput: 24.71 Mbit/s  
95th percentile per-packet one-way delay: 21.688 ms  
Loss rate: 0.04%

-- Flow 3:

Average throughput: 24.44 Mbit/s  
95th percentile per-packet one-way delay: 21.783 ms  
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-12-20 11:36:45  
End at: 2017-12-20 11:37:15  
Local clock offset: -0.101 ms  
Remote clock offset: -1.553 ms

# Below is generated by plot.py at 2017-12-20 15:06:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 49.31 Mbit/s  
95th percentile per-packet one-way delay: 22.243 ms  
Loss rate: 0.01%

-- Flow 1:

Average throughput: 24.72 Mbit/s  
95th percentile per-packet one-way delay: 22.244 ms  
Loss rate: 0.01%

-- Flow 2:

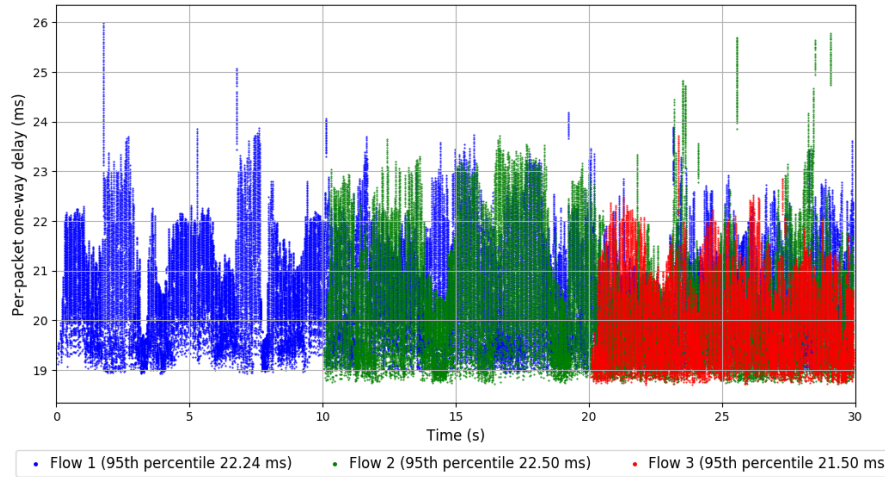
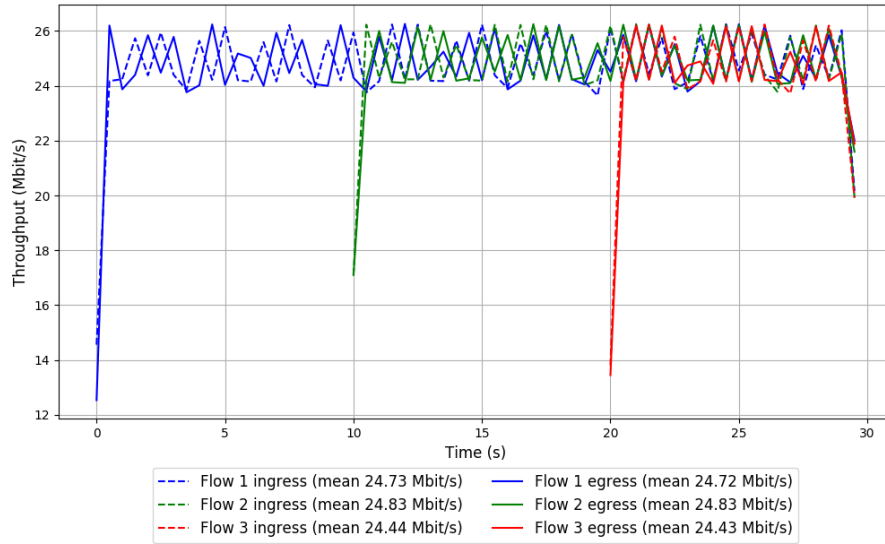
Average throughput: 24.83 Mbit/s  
95th percentile per-packet one-way delay: 22.495 ms  
Loss rate: 0.00%

-- Flow 3:

Average throughput: 24.43 Mbit/s  
95th percentile per-packet one-way delay: 21.495 ms  
Loss rate: 0.03%



Run 9: Report of Sprout — Data Link

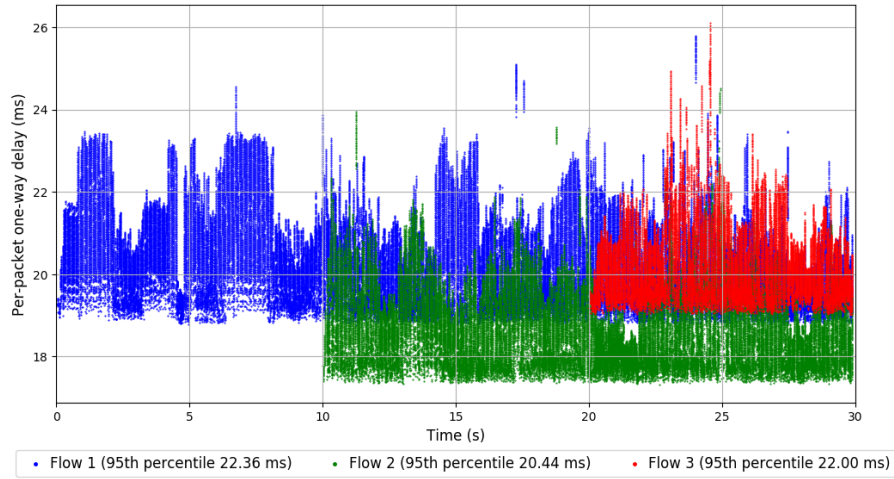
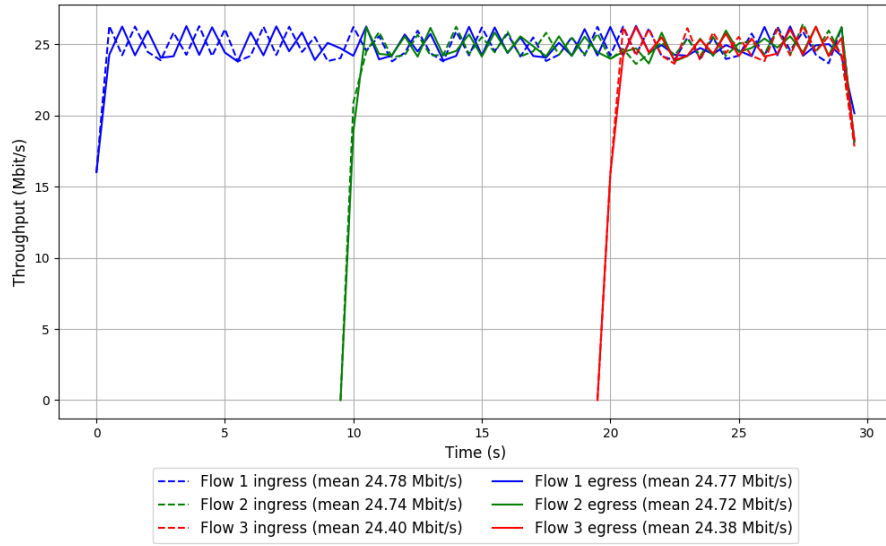


Run 10: Statistics of Sprout

Start at: 2017-12-20 11:58:51  
End at: 2017-12-20 11:59:21  
Local clock offset: -0.176 ms  
Remote clock offset: -2.002 ms

```
# Below is generated by plot.py at 2017-12-20 15:06:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.29 Mbit/s
95th percentile per-packet one-way delay: 21.975 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 24.77 Mbit/s
95th percentile per-packet one-way delay: 22.362 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 24.72 Mbit/s
95th percentile per-packet one-way delay: 20.441 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 24.38 Mbit/s
95th percentile per-packet one-way delay: 22.004 ms
Loss rate: 0.08%
```

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2017-12-20 08:53:36  
End at: 2017-12-20 08:54:06  
Local clock offset: 0.926 ms  
Remote clock offset: -0.644 ms

# Below is generated by plot.py at 2017-12-20 15:12:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 451.18 Mbit/s  
95th percentile per-packet one-way delay: 19.238 ms  
Loss rate: 0.00%

-- Flow 1:

Average throughput: 247.23 Mbit/s  
95th percentile per-packet one-way delay: 19.262 ms  
Loss rate: 0.00%

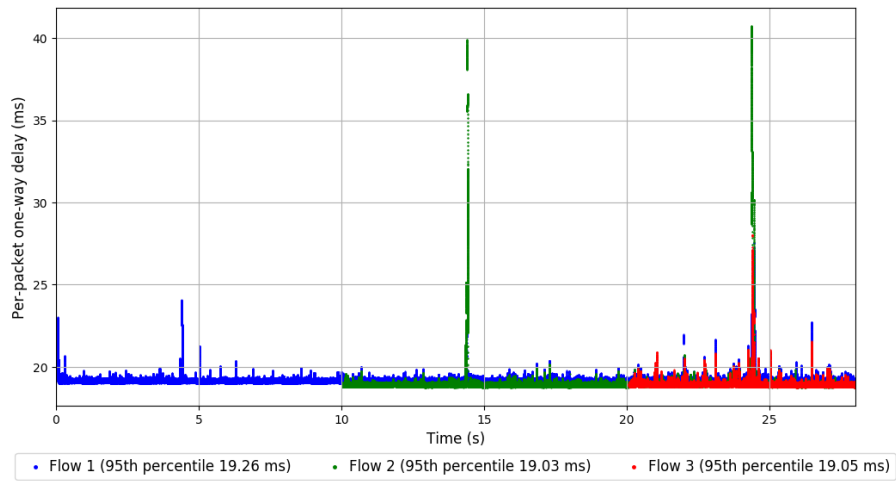
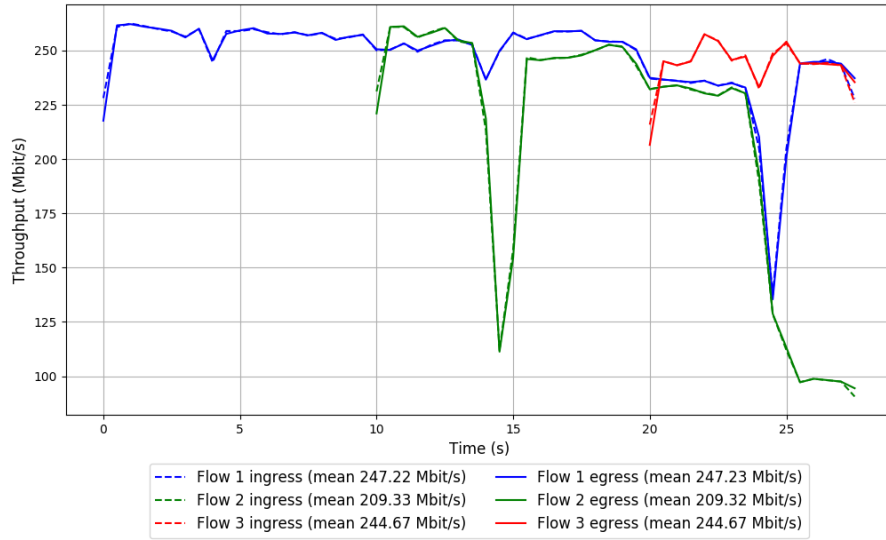
-- Flow 2:

Average throughput: 209.32 Mbit/s  
95th percentile per-packet one-way delay: 19.027 ms  
Loss rate: 0.00%

-- Flow 3:

Average throughput: 244.67 Mbit/s  
95th percentile per-packet one-way delay: 19.055 ms  
Loss rate: 0.00%

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



Run 2: Statistics of TaoVA-100x

Start at: 2017-12-20 09:15:23  
End at: 2017-12-20 09:15:53  
Local clock offset: 1.04 ms  
Remote clock offset: -0.998 ms

# Below is generated by plot.py at 2017-12-20 15:13:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 481.69 Mbit/s  
95th percentile per-packet one-way delay: 19.115 ms  
Loss rate: 0.00%

-- Flow 1:

Average throughput: 253.79 Mbit/s  
95th percentile per-packet one-way delay: 19.154 ms  
Loss rate: 0.00%

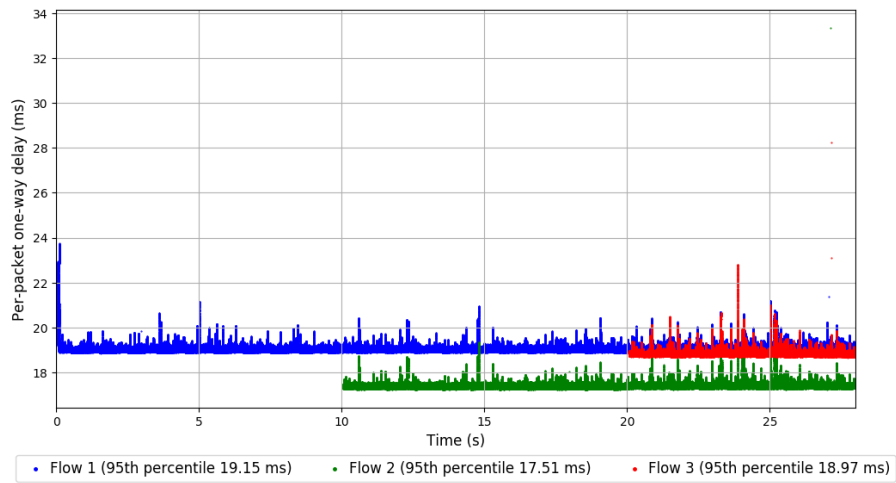
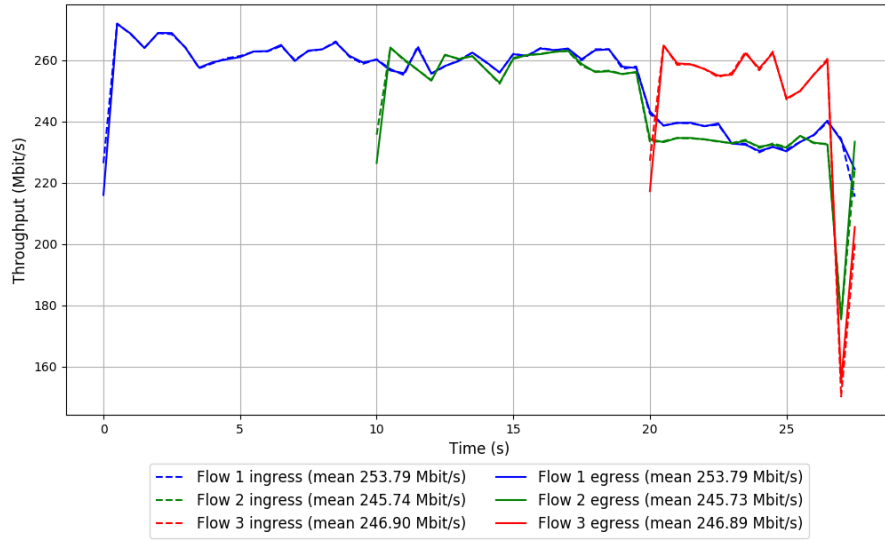
-- Flow 2:

Average throughput: 245.73 Mbit/s  
95th percentile per-packet one-way delay: 17.512 ms  
Loss rate: 0.00%

-- Flow 3:

Average throughput: 246.89 Mbit/s  
95th percentile per-packet one-way delay: 18.972 ms  
Loss rate: 0.01%

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



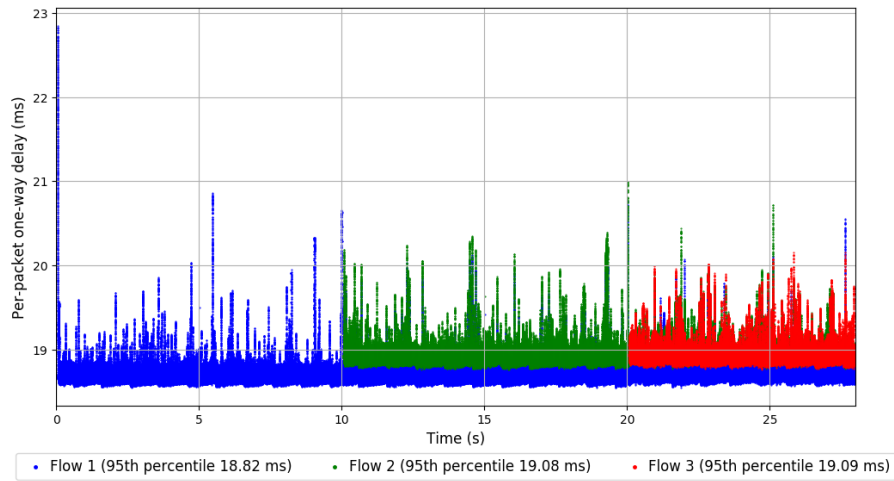
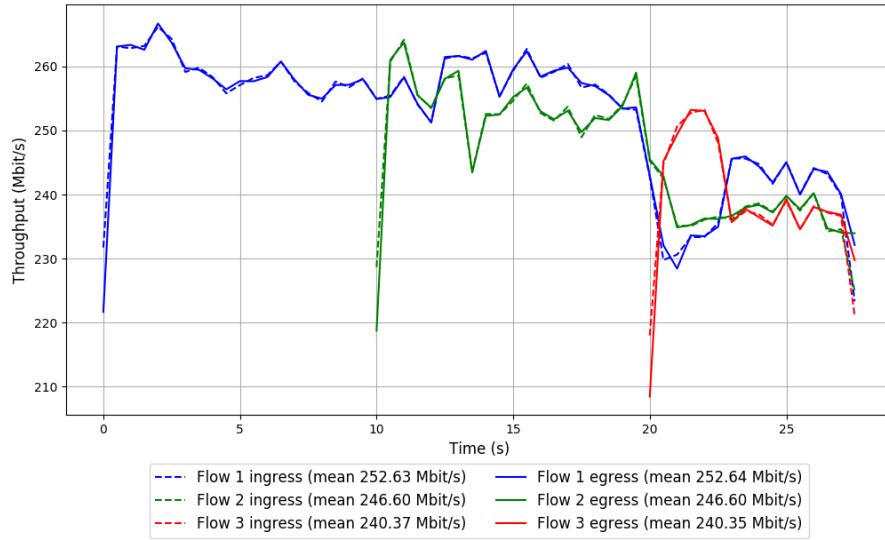
Run 3: Statistics of TaoVA-100x

Start at: 2017-12-20 09:37:13  
End at: 2017-12-20 09:37:43  
Local clock offset: 1.023 ms  
Remote clock offset: -1.108 ms

```
# Below is generated by plot.py at 2017-12-20 15:13:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 479.25 Mbit/s
95th percentile per-packet one-way delay: 19.021 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 252.64 Mbit/s
95th percentile per-packet one-way delay: 18.816 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 246.60 Mbit/s
95th percentile per-packet one-way delay: 19.076 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 240.35 Mbit/s
95th percentile per-packet one-way delay: 19.091 ms
Loss rate: 0.01%
```



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



Run 4: Statistics of TaoVA-100x

Start at: 2017-12-20 09:58:57

End at: 2017-12-20 09:59:28

Local clock offset: 0.801 ms

Remote clock offset: -0.97 ms

# Below is generated by plot.py at 2017-12-20 15:13:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 471.71 Mbit/s

95th percentile per-packet one-way delay: 19.106 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 243.04 Mbit/s

95th percentile per-packet one-way delay: 18.894 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 244.76 Mbit/s

95th percentile per-packet one-way delay: 19.150 ms

Loss rate: 0.00%

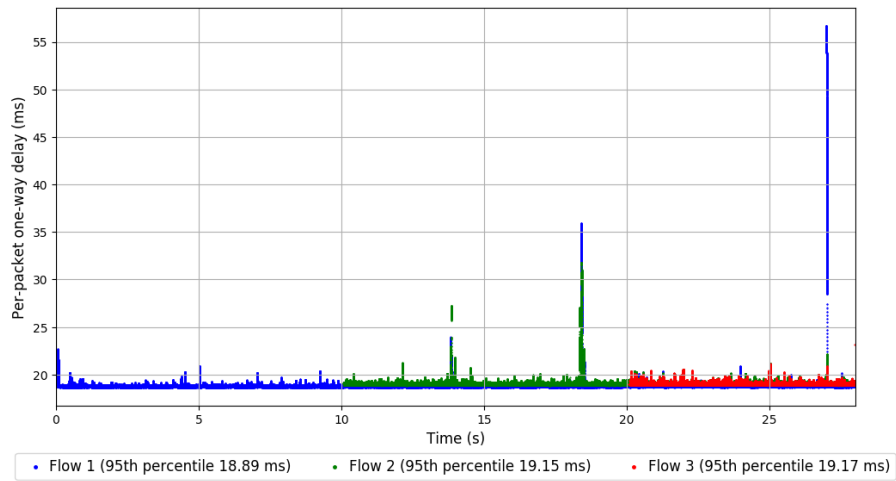
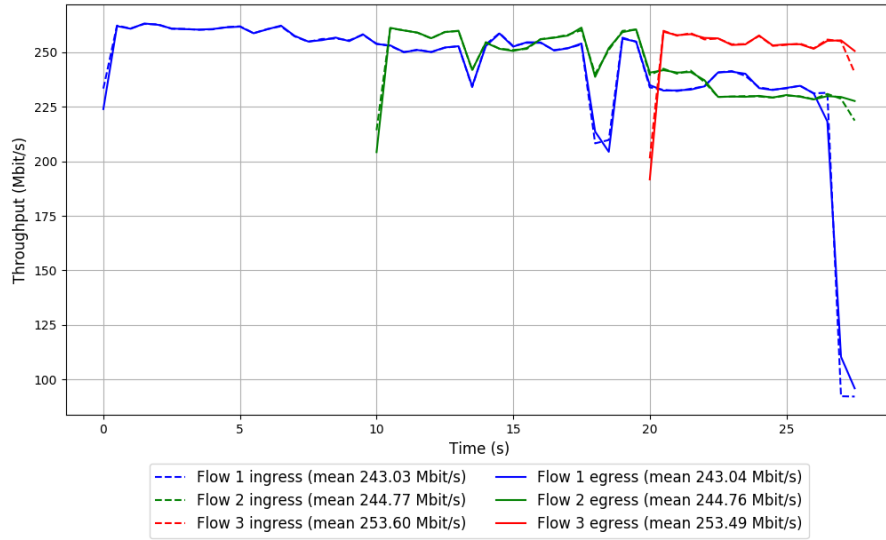
-- Flow 3:

Average throughput: 253.49 Mbit/s

95th percentile per-packet one-way delay: 19.168 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-12-20 10:20:53

End at: 2017-12-20 10:21:23

Local clock offset: 0.328 ms

Remote clock offset: -1.359 ms

# Below is generated by plot.py at 2017-12-20 15:13:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 453.96 Mbit/s

95th percentile per-packet one-way delay: 19.250 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 243.27 Mbit/s

95th percentile per-packet one-way delay: 19.037 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 232.77 Mbit/s

95th percentile per-packet one-way delay: 19.294 ms

Loss rate: 0.01%

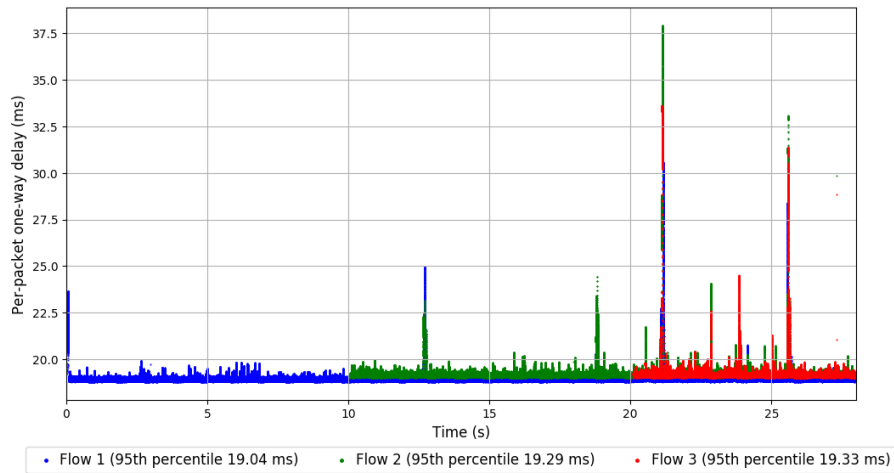
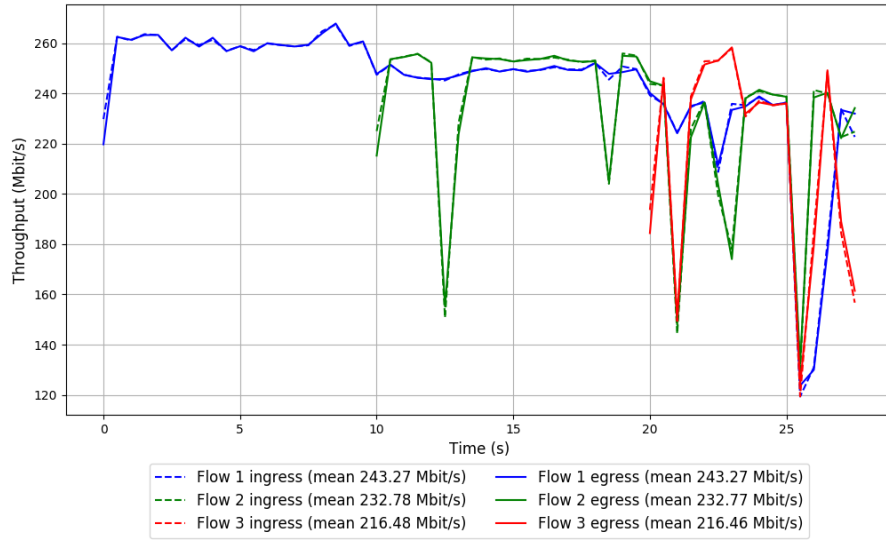
-- Flow 3:

Average throughput: 216.46 Mbit/s

95th percentile per-packet one-way delay: 19.329 ms

Loss rate: 0.01%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-12-20 10:42:35  
End at: 2017-12-20 10:43:05  
Local clock offset: 0.135 ms  
Remote clock offset: -1.051 ms

# Below is generated by plot.py at 2017-12-20 15:13:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 442.12 Mbit/s  
95th percentile per-packet one-way delay: 19.231 ms  
Loss rate: 0.00%

-- Flow 1:

Average throughput: 213.75 Mbit/s  
95th percentile per-packet one-way delay: 19.013 ms  
Loss rate: 0.01%

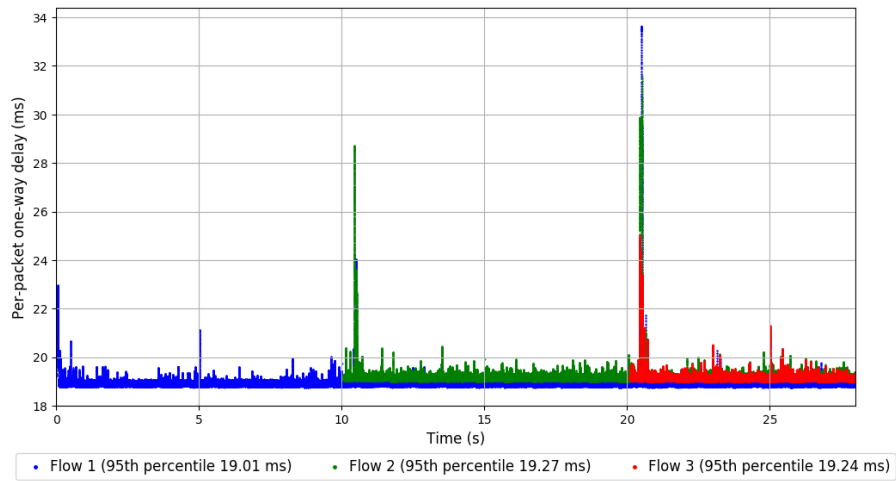
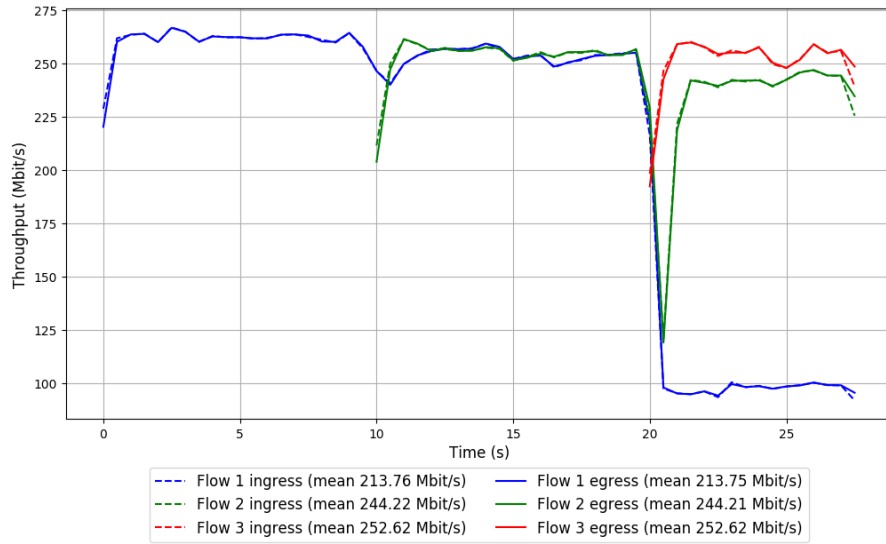
-- Flow 2:

Average throughput: 244.21 Mbit/s  
95th percentile per-packet one-way delay: 19.270 ms  
Loss rate: 0.00%

-- Flow 3:

Average throughput: 252.62 Mbit/s  
95th percentile per-packet one-way delay: 19.243 ms  
Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-12-20 11:04:36  
End at: 2017-12-20 11:05:06  
Local clock offset: 0.071 ms  
Remote clock offset: -1.179 ms

# Below is generated by plot.py at 2017-12-20 15:18:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 482.68 Mbit/s  
95th percentile per-packet one-way delay: 19.113 ms  
Loss rate: 0.01%

-- Flow 1:

Average throughput: 254.78 Mbit/s  
95th percentile per-packet one-way delay: 17.441 ms  
Loss rate: 0.00%

-- Flow 2:

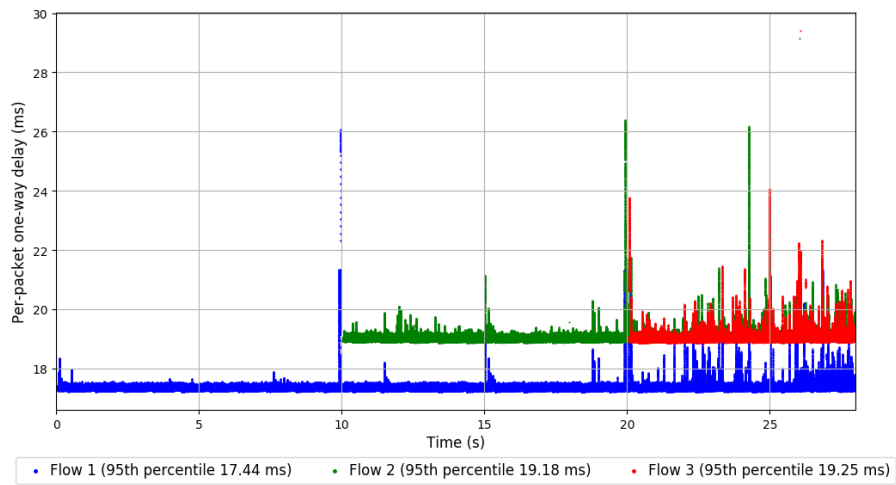
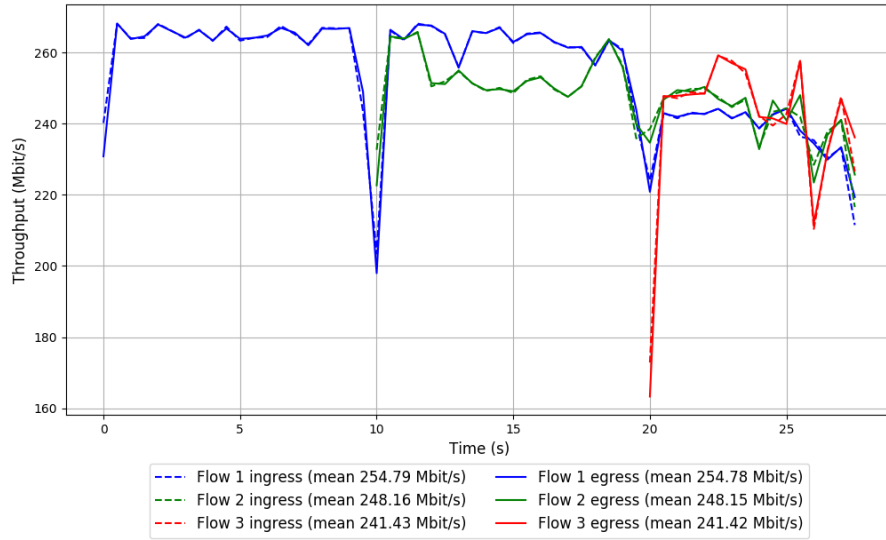
Average throughput: 248.15 Mbit/s  
95th percentile per-packet one-way delay: 19.179 ms  
Loss rate: 0.01%

-- Flow 3:

Average throughput: 241.42 Mbit/s  
95th percentile per-packet one-way delay: 19.253 ms  
Loss rate: 0.00%



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



Run 8: Statistics of TaoVA-100x

Start at: 2017-12-20 11:26:11  
End at: 2017-12-20 11:26:41  
Local clock offset: 0.002 ms  
Remote clock offset: -1.341 ms

# Below is generated by plot.py at 2017-12-20 15:18:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 471.01 Mbit/s  
95th percentile per-packet one-way delay: 19.156 ms  
Loss rate: 0.00%

-- Flow 1:

Average throughput: 245.66 Mbit/s  
95th percentile per-packet one-way delay: 17.542 ms  
Loss rate: 0.00%

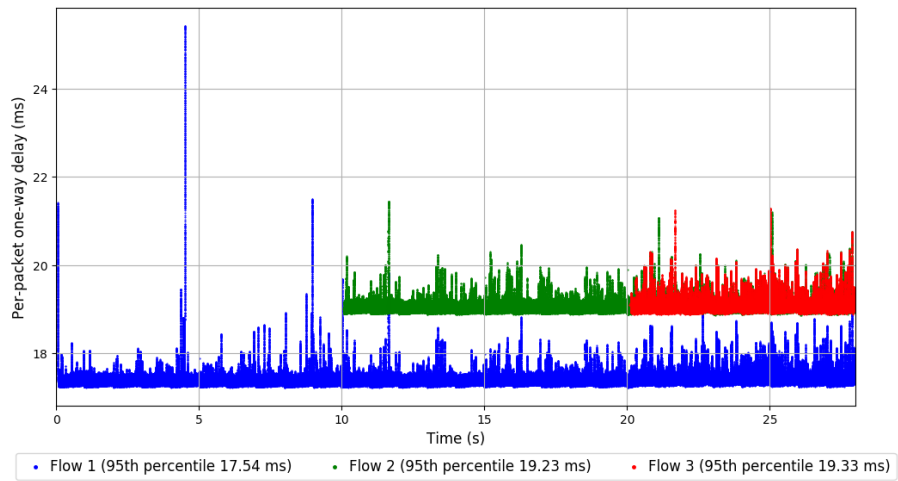
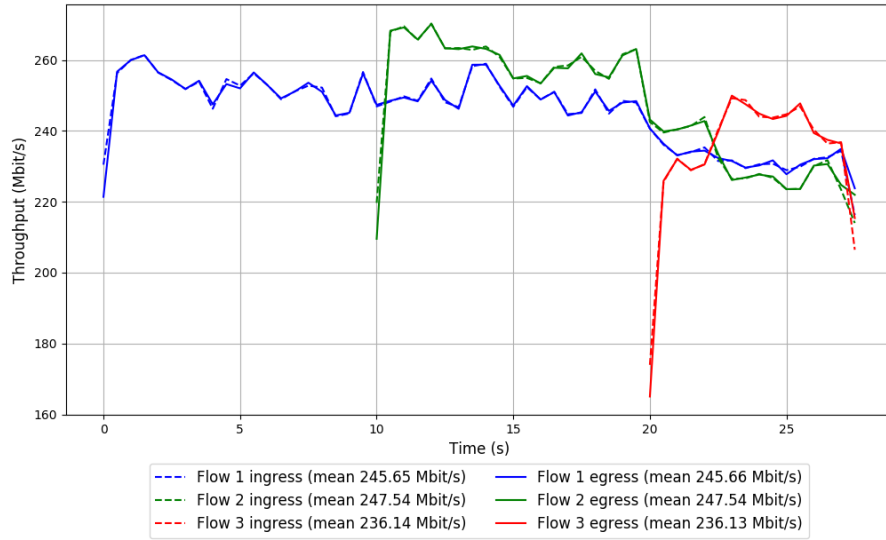
-- Flow 2:

Average throughput: 247.54 Mbit/s  
95th percentile per-packet one-way delay: 19.234 ms  
Loss rate: 0.00%

-- Flow 3:

Average throughput: 236.13 Mbit/s  
95th percentile per-packet one-way delay: 19.329 ms  
Loss rate: 0.01%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-12-20 11:48:17  
End at: 2017-12-20 11:48:47  
Local clock offset: -0.097 ms  
Remote clock offset: -1.828 ms

# Below is generated by plot.py at 2017-12-20 15:24:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 490.14 Mbit/s  
95th percentile per-packet one-way delay: 19.182 ms  
Loss rate: 0.01%

-- Flow 1:

Average throughput: 256.32 Mbit/s  
95th percentile per-packet one-way delay: 18.946 ms  
Loss rate: 0.00%

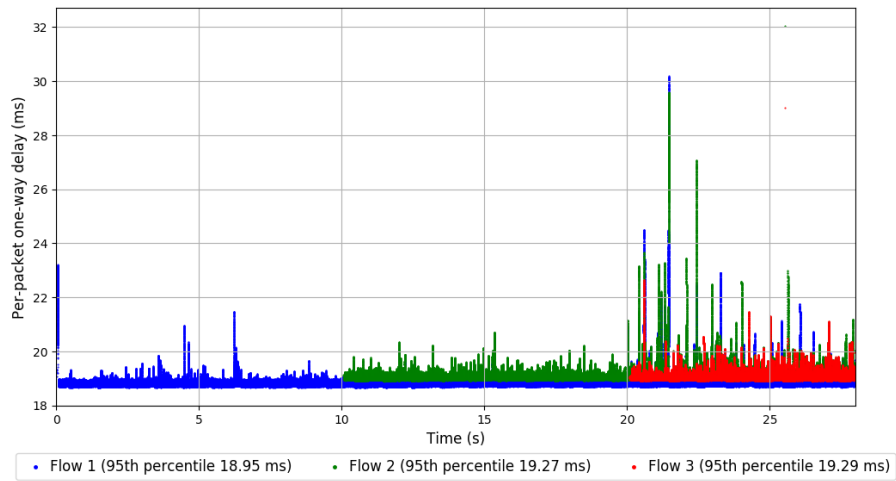
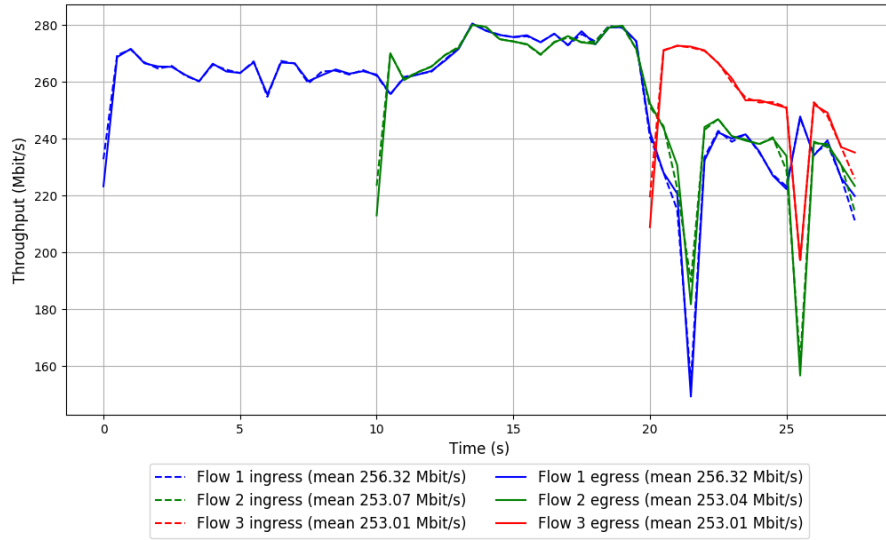
-- Flow 2:

Average throughput: 253.04 Mbit/s  
95th percentile per-packet one-way delay: 19.271 ms  
Loss rate: 0.02%

-- Flow 3:

Average throughput: 253.01 Mbit/s  
95th percentile per-packet one-way delay: 19.292 ms  
Loss rate: 0.00%

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



Run 10: Statistics of TaoVA-100x

Start at: 2017-12-20 12:10:19  
End at: 2017-12-20 12:10:49  
Local clock offset: -0.208 ms  
Remote clock offset: -2.182 ms

# Below is generated by plot.py at 2017-12-20 15:24:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 443.39 Mbit/s  
95th percentile per-packet one-way delay: 19.059 ms  
Loss rate: 0.01%

-- Flow 1:

Average throughput: 217.64 Mbit/s  
95th percentile per-packet one-way delay: 18.950 ms  
Loss rate: 0.01%

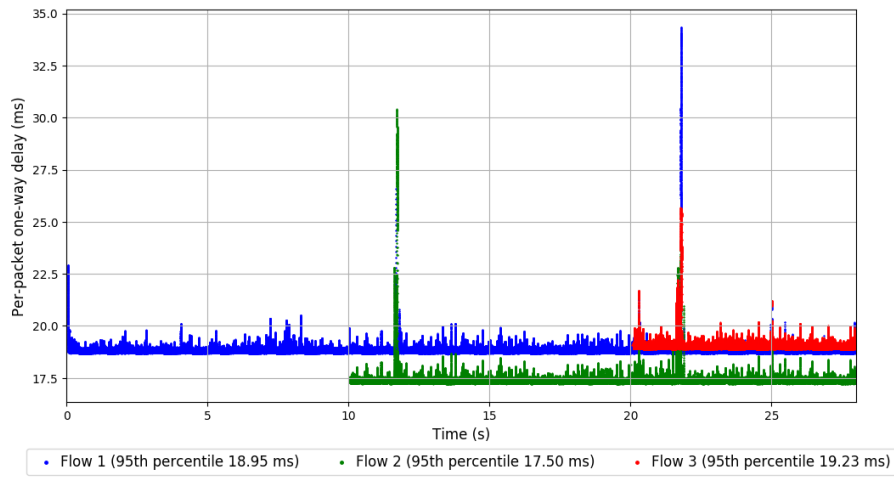
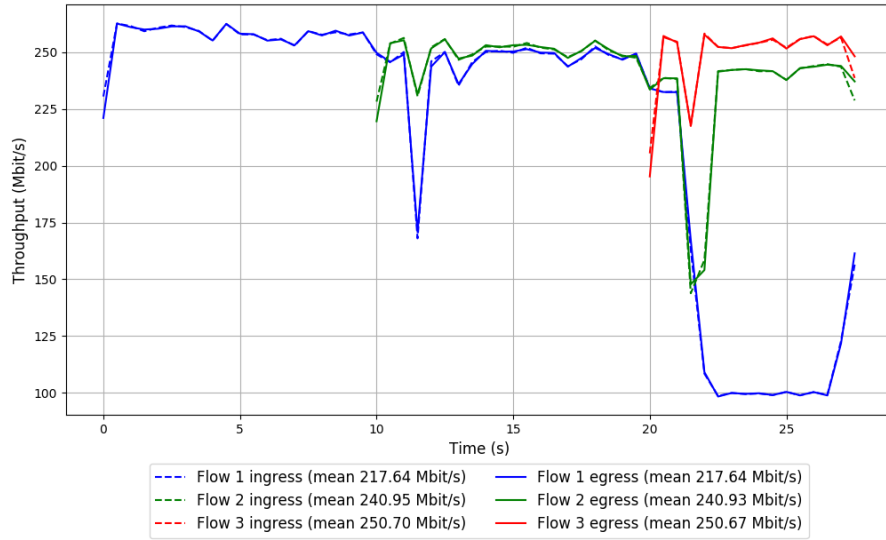
-- Flow 2:

Average throughput: 240.93 Mbit/s  
95th percentile per-packet one-way delay: 17.505 ms  
Loss rate: 0.01%

-- Flow 3:

Average throughput: 250.67 Mbit/s  
95th percentile per-packet one-way delay: 19.229 ms  
Loss rate: 0.01%

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



Run 1: Statistics of TCP Vegas

Start at: 2017-12-20 08:46:02  
End at: 2017-12-20 08:46:32  
Local clock offset: 0.942 ms  
Remote clock offset: -0.717 ms

# Below is generated by plot.py at 2017-12-20 15:24:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 228.48 Mbit/s  
95th percentile per-packet one-way delay: 19.675 ms  
Loss rate: 0.24%

-- Flow 1:

Average throughput: 13.17 Mbit/s  
95th percentile per-packet one-way delay: 3879.174 ms  
Loss rate: 0.00%

-- Flow 2:

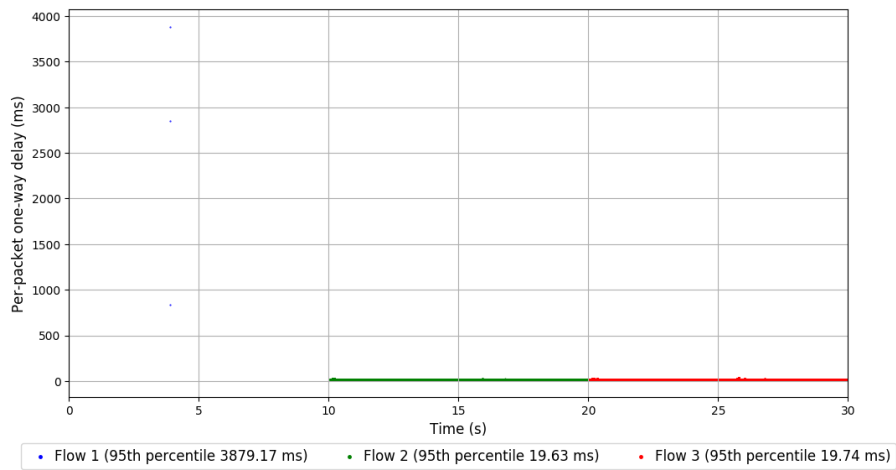
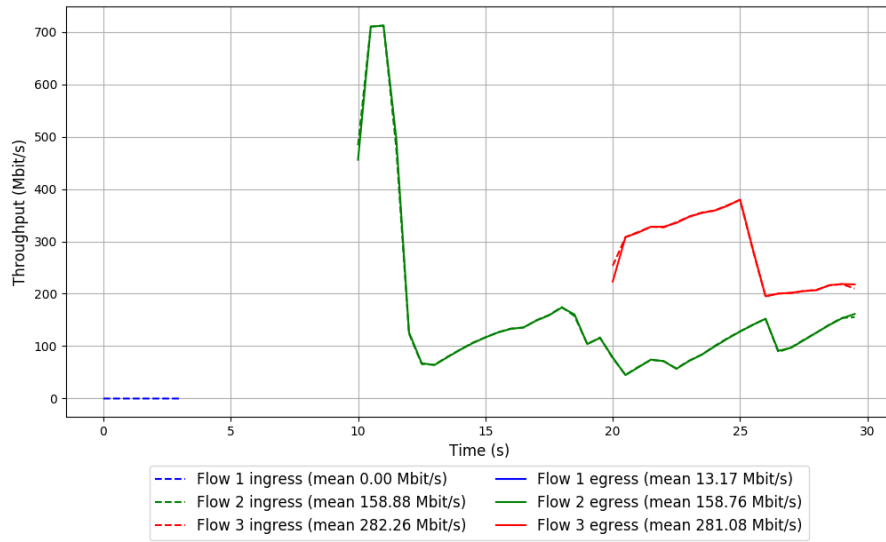
Average throughput: 158.76 Mbit/s  
95th percentile per-packet one-way delay: 19.633 ms  
Loss rate: 0.08%

-- Flow 3:

Average throughput: 281.08 Mbit/s  
95th percentile per-packet one-way delay: 19.740 ms  
Loss rate: 0.42%



### Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

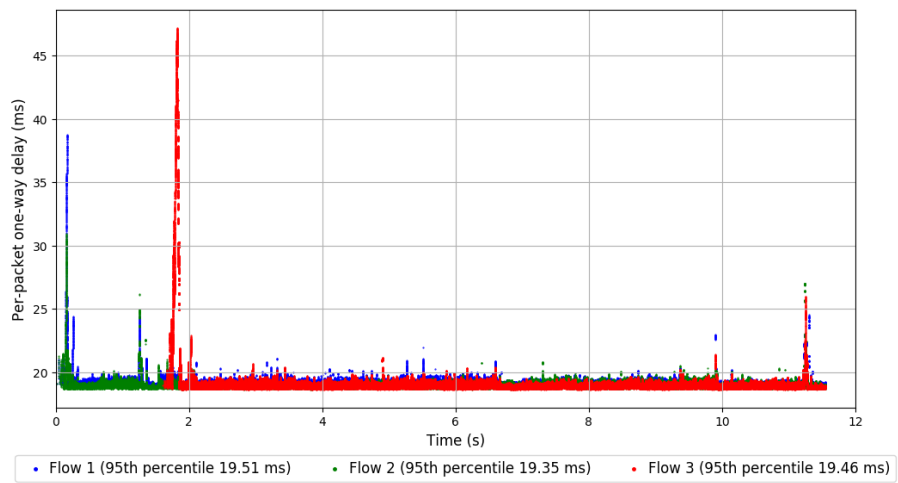
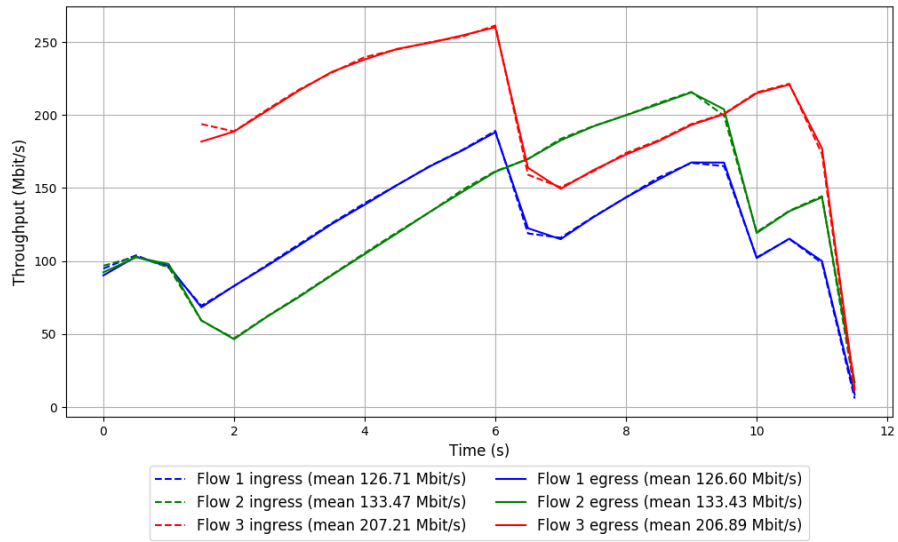
Start at: 2017-12-20 09:07:48

End at: 2017-12-20 09:08:18

Local clock offset: 1.03 ms

Remote clock offset: -0.797 ms

## Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-12-20 09:29:34  
End at: 2017-12-20 09:30:04  
Local clock offset: 1.023 ms  
Remote clock offset: -1.035 ms

# Below is generated by plot.py at 2017-12-20 15:24:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 313.72 Mbit/s  
95th percentile per-packet one-way delay: 19.552 ms  
Loss rate: 0.14%

-- Flow 1:

Average throughput: 141.78 Mbit/s  
95th percentile per-packet one-way delay: 19.294 ms  
Loss rate: 0.07%

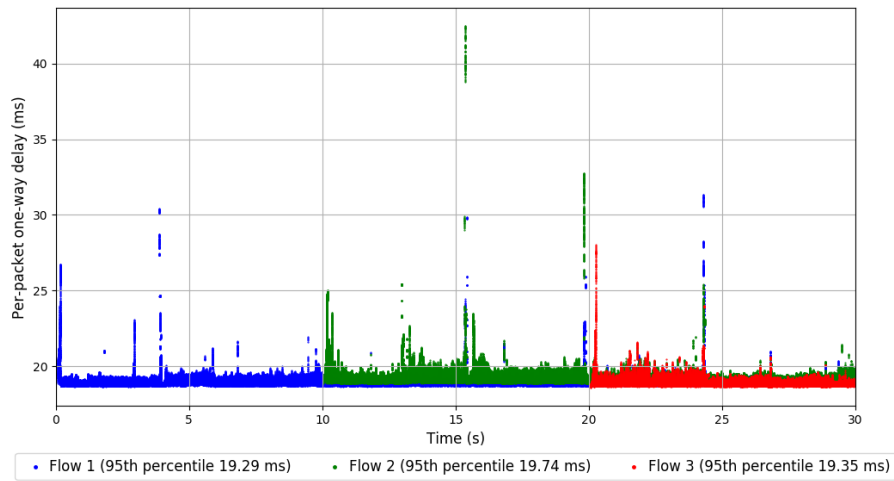
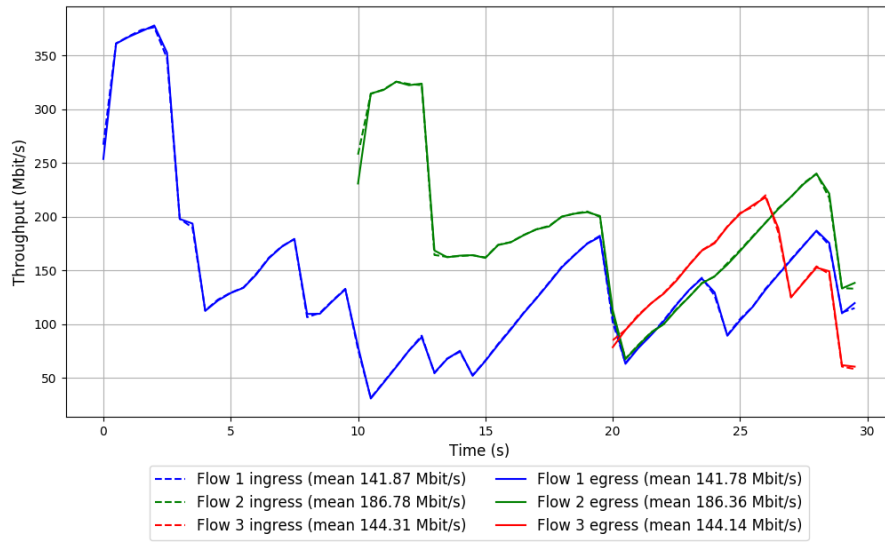
-- Flow 2:

Average throughput: 186.36 Mbit/s  
95th percentile per-packet one-way delay: 19.738 ms  
Loss rate: 0.22%

-- Flow 3:

Average throughput: 144.14 Mbit/s  
95th percentile per-packet one-way delay: 19.348 ms  
Loss rate: 0.11%

### Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-12-20 09:51:17

End at: 2017-12-20 09:51:47

Local clock offset: 0.927 ms

Remote clock offset: -1.02 ms

# Below is generated by plot.py at 2017-12-20 15:24:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 385.08 Mbit/s

95th percentile per-packet one-way delay: 19.357 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 187.68 Mbit/s

95th percentile per-packet one-way delay: 17.882 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 176.04 Mbit/s

95th percentile per-packet one-way delay: 19.295 ms

Loss rate: 0.23%

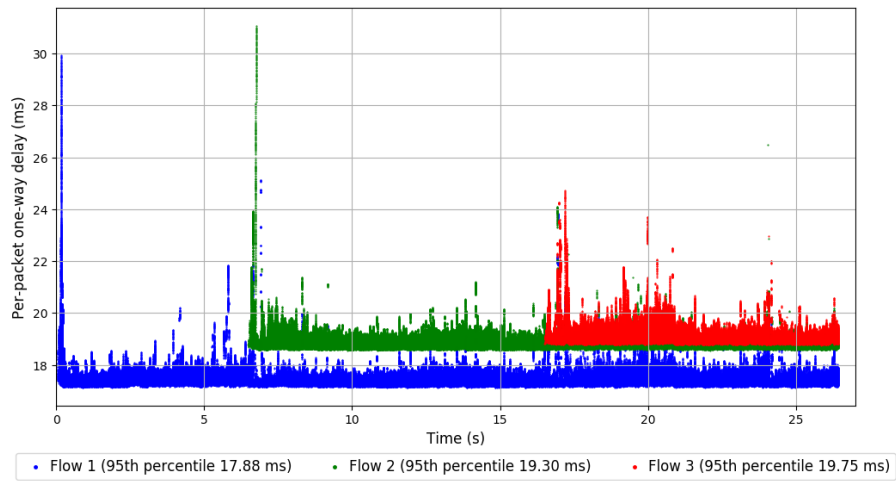
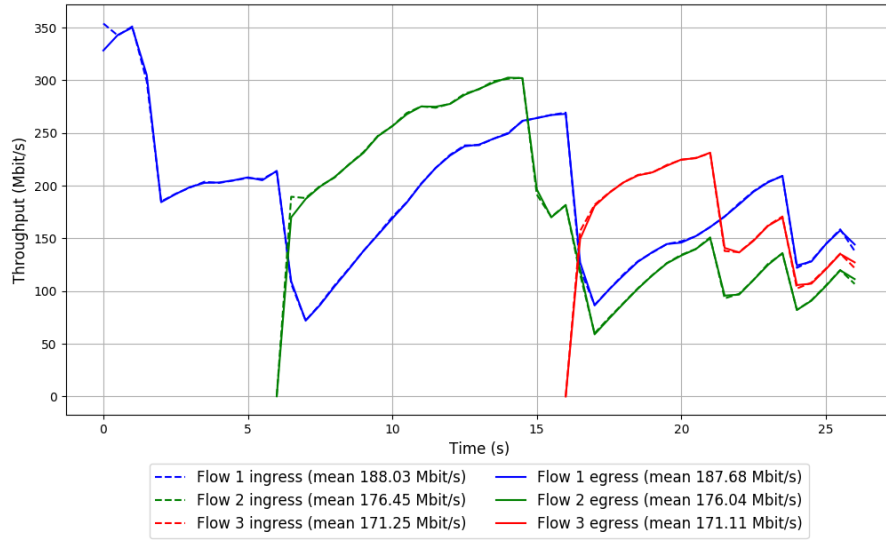
-- Flow 3:

Average throughput: 171.11 Mbit/s

95th percentile per-packet one-way delay: 19.750 ms

Loss rate: 0.07%

### Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-12-20 10:13:04  
End at: 2017-12-20 10:13:34  
Local clock offset: 0.586 ms  
Remote clock offset: -1.257 ms

# Below is generated by plot.py at 2017-12-20 15:24:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 448.35 Mbit/s  
95th percentile per-packet one-way delay: 19.420 ms  
Loss rate: 0.04%

-- Flow 1:

Average throughput: 244.37 Mbit/s  
95th percentile per-packet one-way delay: 19.534 ms  
Loss rate: 0.02%

-- Flow 2:

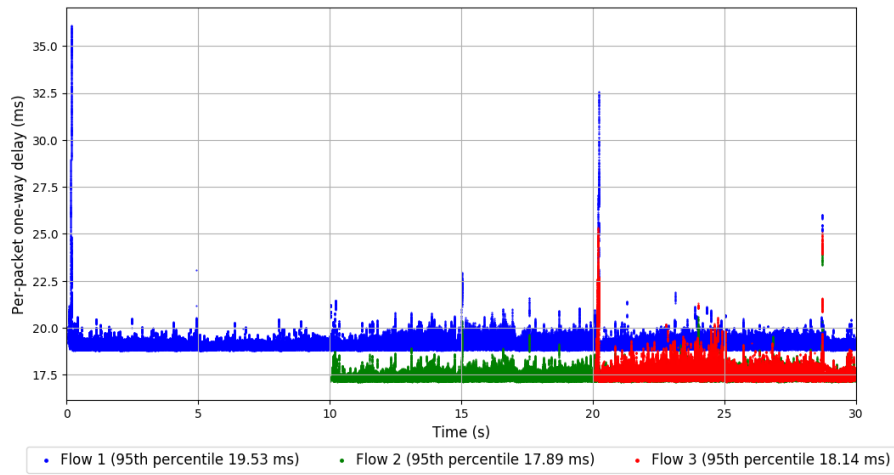
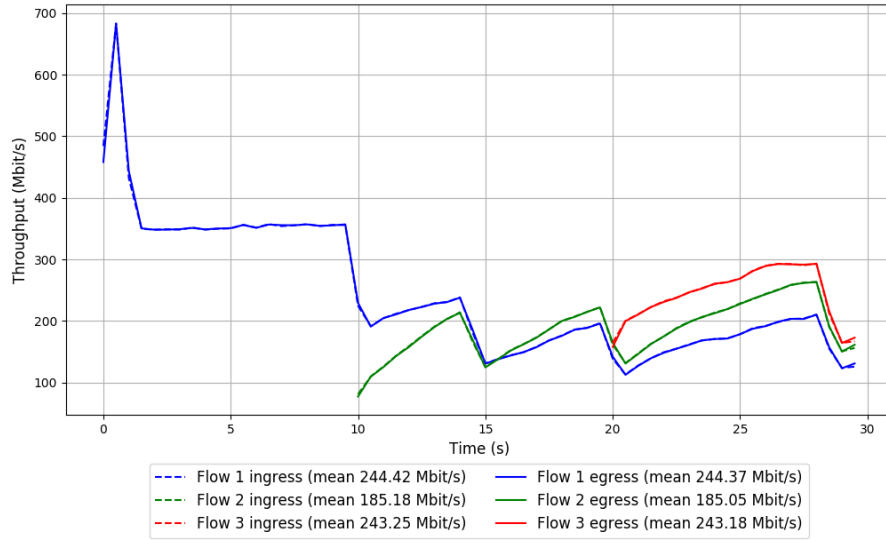
Average throughput: 185.05 Mbit/s  
95th percentile per-packet one-way delay: 17.894 ms  
Loss rate: 0.07%

-- Flow 3:

Average throughput: 243.18 Mbit/s  
95th percentile per-packet one-way delay: 18.141 ms  
Loss rate: 0.03%



### Run 5: Report of TCP Vegas — Data Link

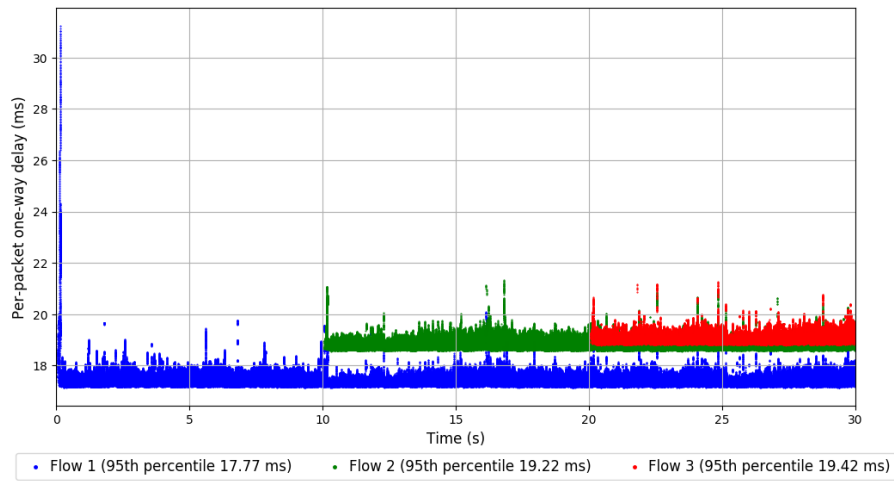
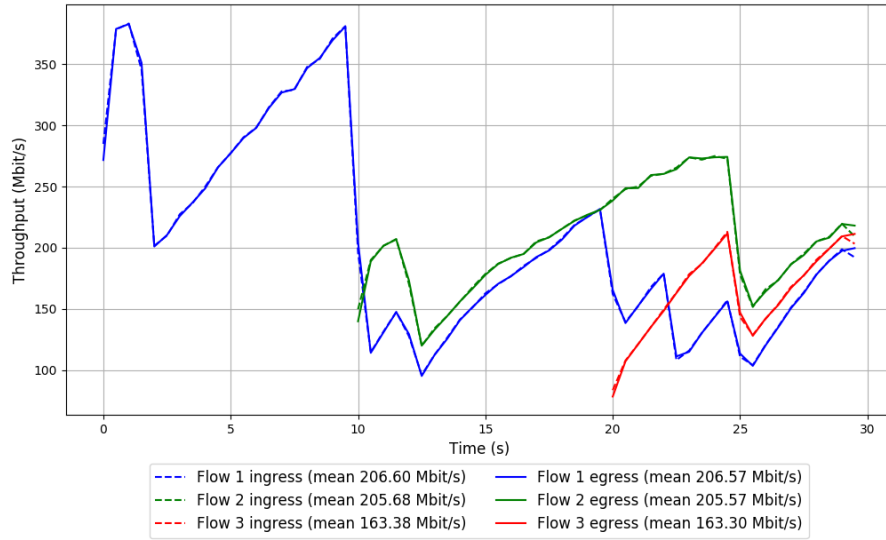


Run 6: Statistics of TCP Vegas

Start at: 2017-12-20 10:34:58  
End at: 2017-12-20 10:35:28  
Local clock offset: 0.313 ms  
Remote clock offset: -1.242 ms

```
# Below is generated by plot.py at 2017-12-20 15:24:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 397.66 Mbit/s
95th percentile per-packet one-way delay: 19.198 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 206.57 Mbit/s
95th percentile per-packet one-way delay: 17.774 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 205.57 Mbit/s
95th percentile per-packet one-way delay: 19.222 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 163.30 Mbit/s
95th percentile per-packet one-way delay: 19.421 ms
Loss rate: 0.05%
```

### Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-12-20 10:56:57  
End at: 2017-12-20 10:57:27  
Local clock offset: 0.068 ms  
Remote clock offset: -1.163 ms

# Below is generated by plot.py at 2017-12-20 15:24:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 338.81 Mbit/s  
95th percentile per-packet one-way delay: 19.650 ms  
Loss rate: 0.13%

-- Flow 1:

Average throughput: 161.65 Mbit/s  
95th percentile per-packet one-way delay: 19.524 ms  
Loss rate: 0.08%

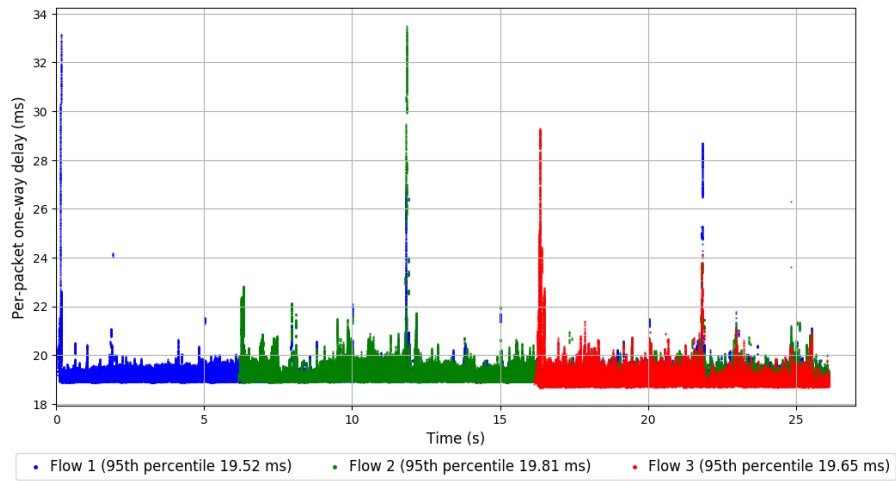
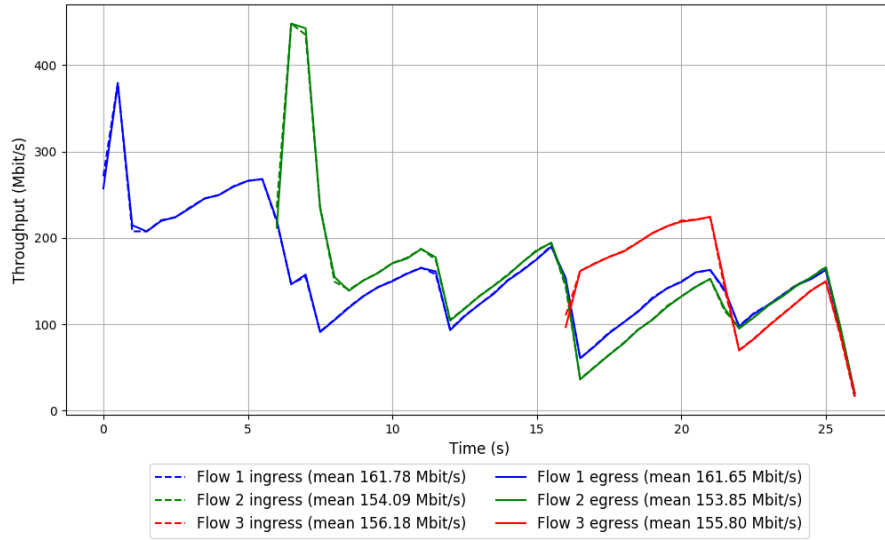
-- Flow 2:

Average throughput: 153.85 Mbit/s  
95th percentile per-packet one-way delay: 19.806 ms  
Loss rate: 0.15%

-- Flow 3:

Average throughput: 155.80 Mbit/s  
95th percentile per-packet one-way delay: 19.651 ms  
Loss rate: 0.24%

### Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

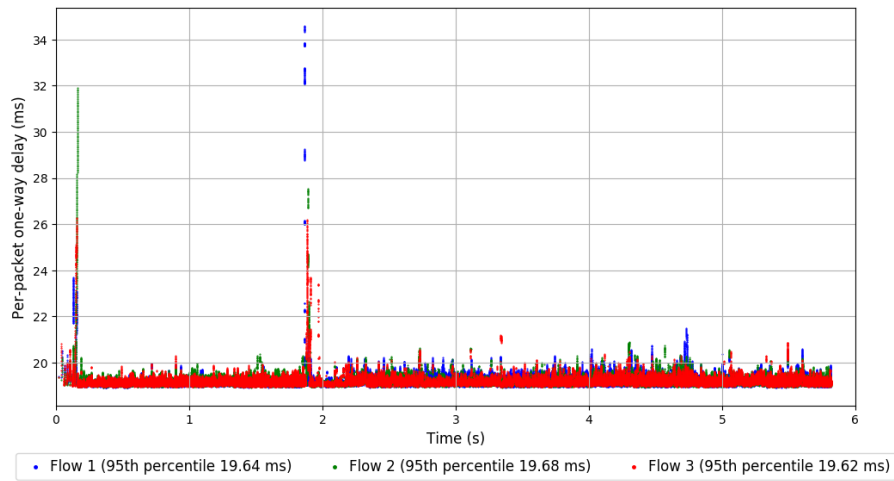
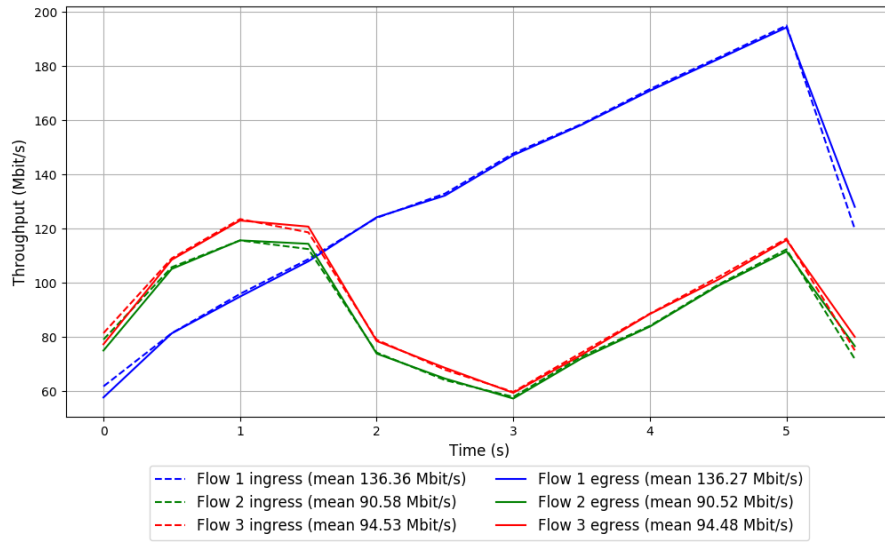
Start at: 2017-12-20 11:18:47

End at: 2017-12-20 11:19:17

Local clock offset: -0.009 ms

Remote clock offset: -1.137 ms

### Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-12-20 11:40:34  
End at: 2017-12-20 11:41:04  
Local clock offset: -0.133 ms  
Remote clock offset: -1.747 ms

# Below is generated by plot.py at 2017-12-20 15:24:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 417.24 Mbit/s  
95th percentile per-packet one-way delay: 19.483 ms  
Loss rate: 0.04%

-- Flow 1:

Average throughput: 230.83 Mbit/s  
95th percentile per-packet one-way delay: 19.502 ms  
Loss rate: 0.05%

-- Flow 2:

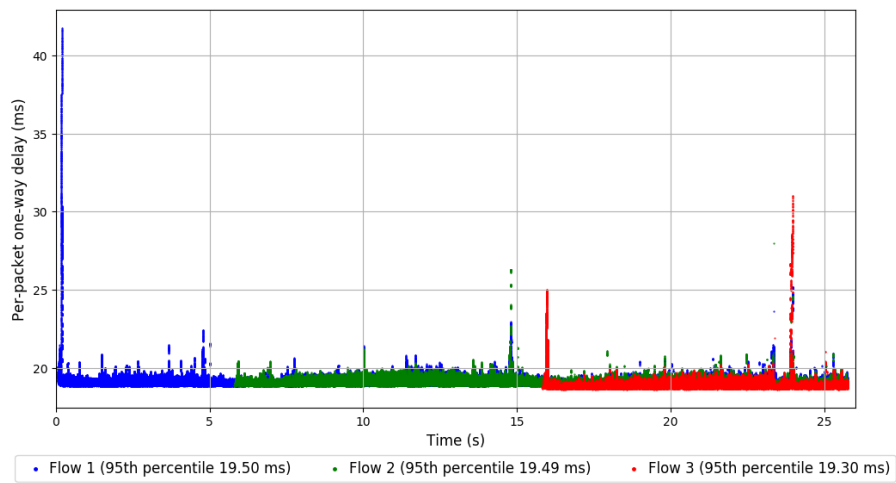
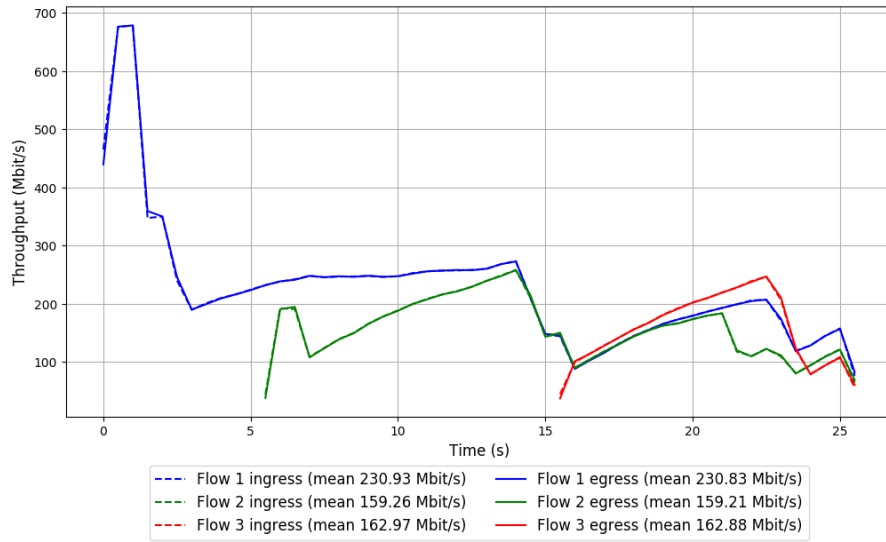
Average throughput: 159.21 Mbit/s  
95th percentile per-packet one-way delay: 19.492 ms  
Loss rate: 0.03%

-- Flow 3:

Average throughput: 162.88 Mbit/s  
95th percentile per-packet one-way delay: 19.304 ms  
Loss rate: 0.05%



### Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-12-20 12:02:40  
End at: 2017-12-20 12:03:10  
Local clock offset: -0.186 ms  
Remote clock offset: -2.149 ms

# Below is generated by plot.py at 2017-12-20 15:24:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 322.40 Mbit/s  
95th percentile per-packet one-way delay: 19.364 ms  
Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 817.666 ms  
Loss rate: 0.00%

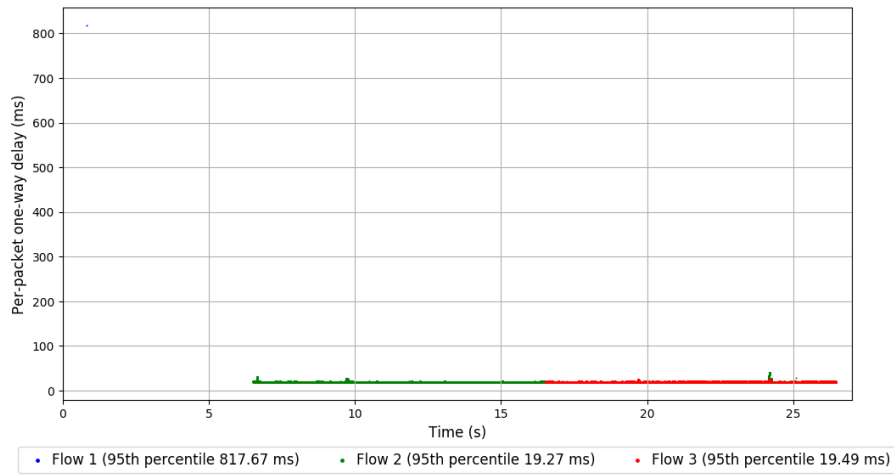
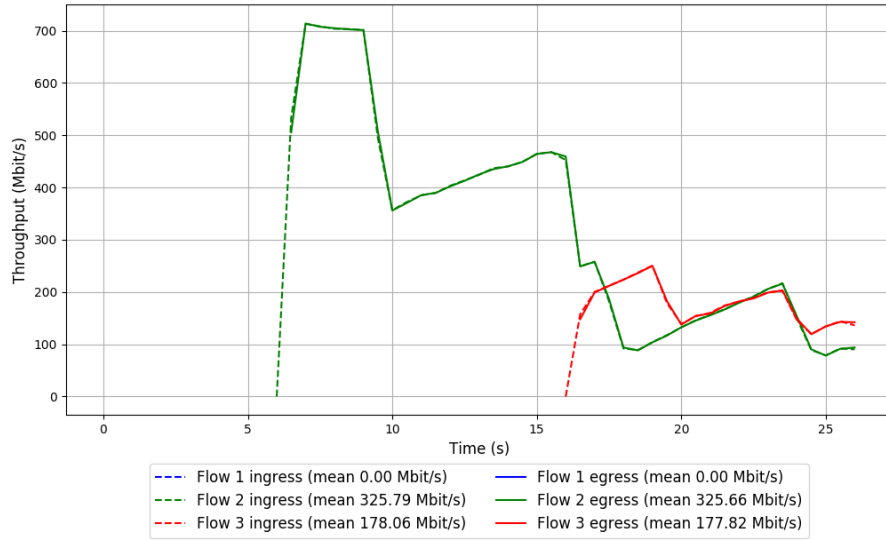
-- Flow 2:

Average throughput: 325.66 Mbit/s  
95th percentile per-packet one-way delay: 19.273 ms  
Loss rate: 0.04%

-- Flow 3:

Average throughput: 177.82 Mbit/s  
95th percentile per-packet one-way delay: 19.492 ms  
Loss rate: 0.13%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-12-20 08:55:19  
End at: 2017-12-20 08:55:49  
Local clock offset: 1.034 ms  
Remote clock offset: -0.68 ms

# Below is generated by plot.py at 2017-12-20 15:25:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 443.93 Mbit/s  
95th percentile per-packet one-way delay: 35.450 ms  
Loss rate: 20.96%

-- Flow 1:

Average throughput: 210.76 Mbit/s  
95th percentile per-packet one-way delay: 38.730 ms  
Loss rate: 17.78%

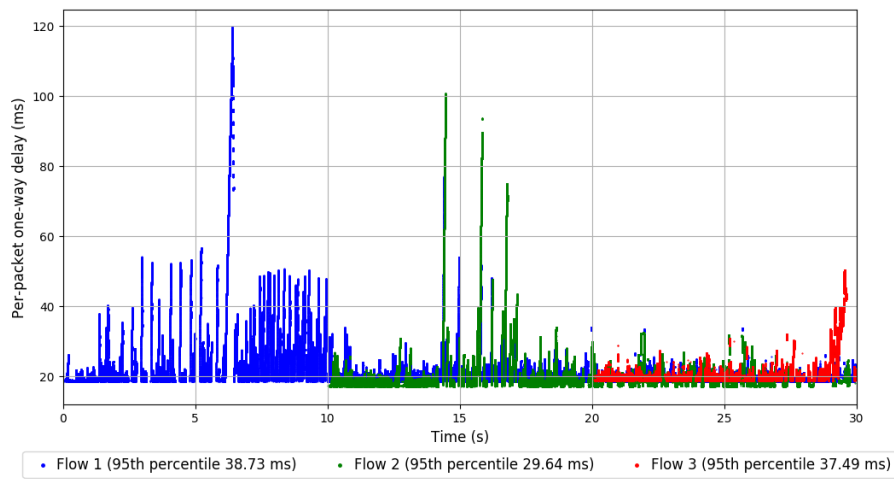
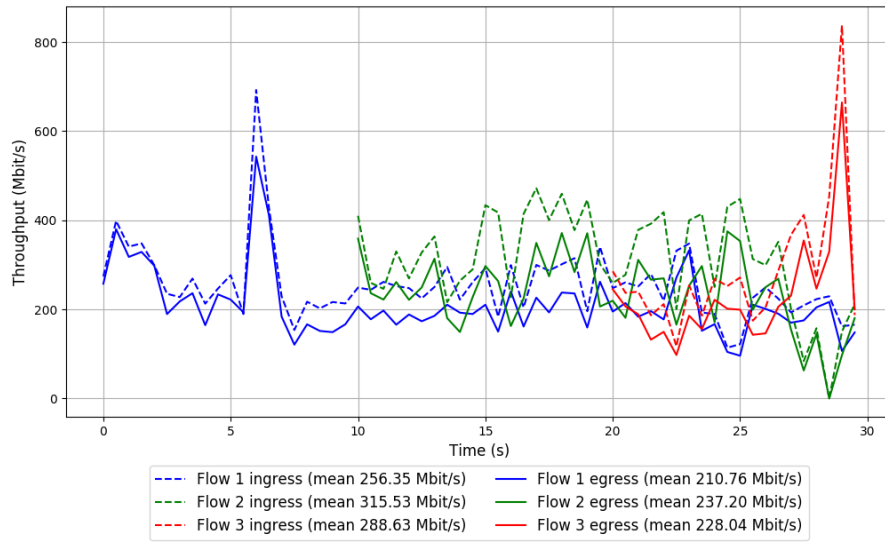
-- Flow 2:

Average throughput: 237.20 Mbit/s  
95th percentile per-packet one-way delay: 29.635 ms  
Loss rate: 24.82%

-- Flow 3:

Average throughput: 228.04 Mbit/s  
95th percentile per-packet one-way delay: 37.495 ms  
Loss rate: 21.01%

### Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-12-20 09:17:08  
End at: 2017-12-20 09:17:38  
Local clock offset: 0.94 ms  
Remote clock offset: -1.079 ms

# Below is generated by plot.py at 2017-12-20 15:28:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 439.44 Mbit/s  
95th percentile per-packet one-way delay: 53.637 ms  
Loss rate: 22.94%

-- Flow 1:

Average throughput: 229.62 Mbit/s  
95th percentile per-packet one-way delay: 59.781 ms  
Loss rate: 24.09%

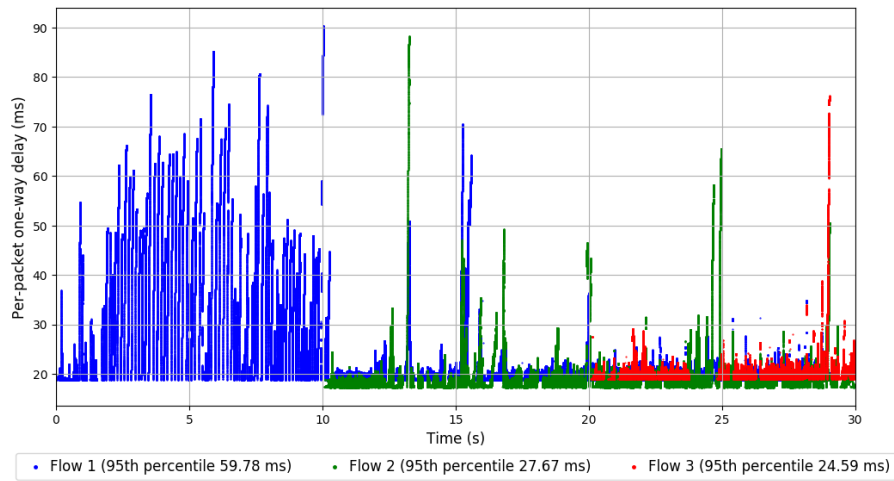
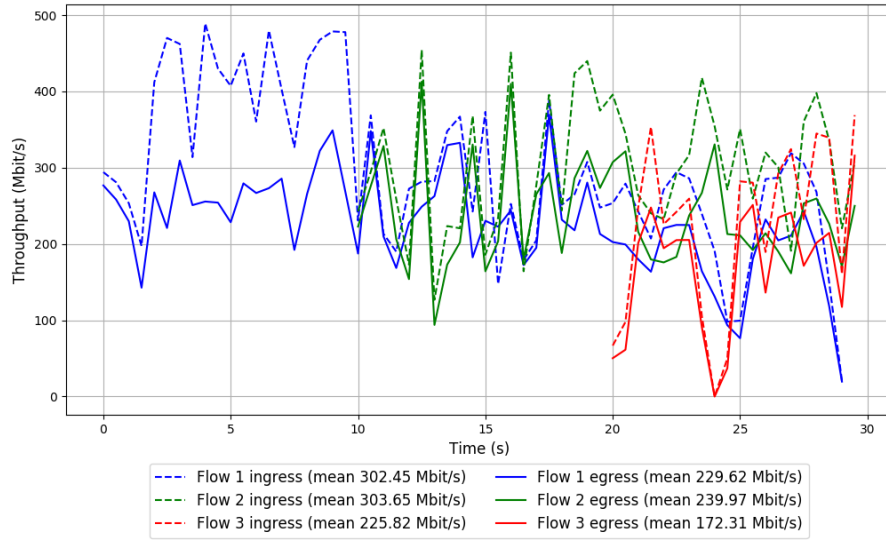
-- Flow 2:

Average throughput: 239.97 Mbit/s  
95th percentile per-packet one-way delay: 27.666 ms  
Loss rate: 20.97%

-- Flow 3:

Average throughput: 172.31 Mbit/s  
95th percentile per-packet one-way delay: 24.586 ms  
Loss rate: 23.69%

## Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-12-20 09:38:58  
End at: 2017-12-20 09:39:28  
Local clock offset: 0.922 ms  
Remote clock offset: -1.085 ms

# Below is generated by plot.py at 2017-12-20 15:28:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 409.25 Mbit/s  
95th percentile per-packet one-way delay: 48.703 ms  
Loss rate: 20.64%

-- Flow 1:

Average throughput: 234.97 Mbit/s  
95th percentile per-packet one-way delay: 55.213 ms  
Loss rate: 24.04%

-- Flow 2:

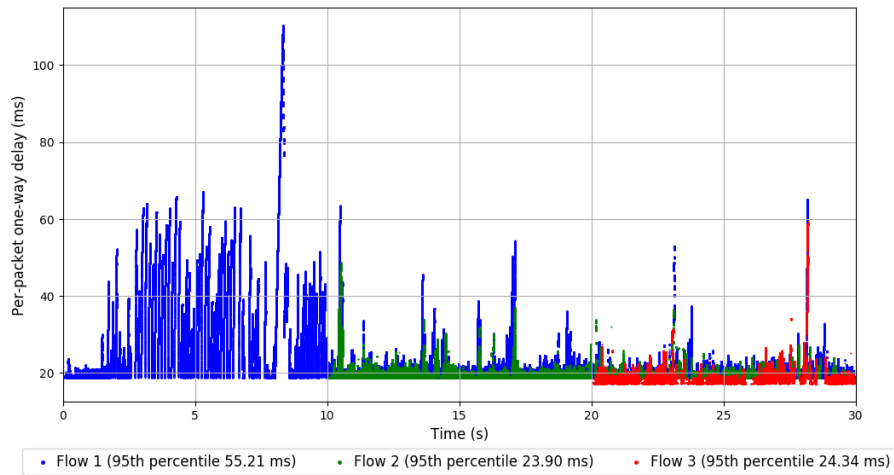
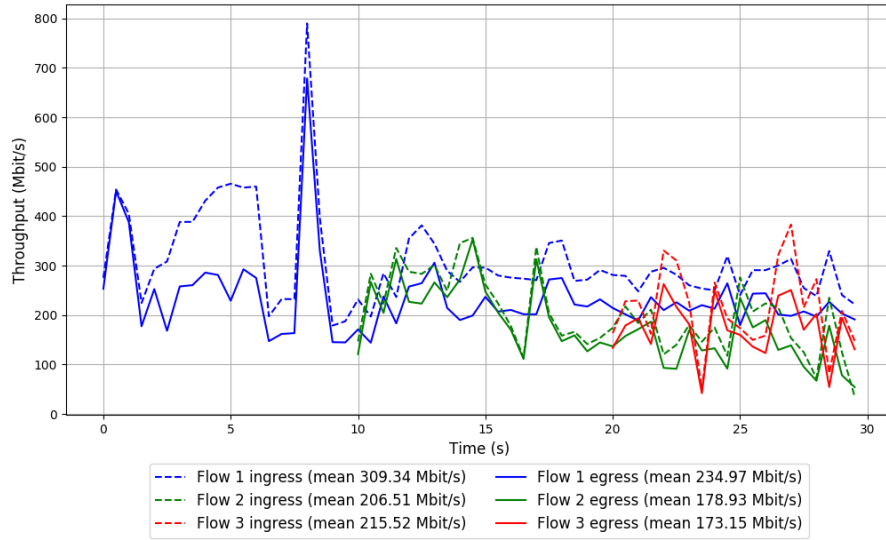
Average throughput: 178.93 Mbit/s  
95th percentile per-packet one-way delay: 23.901 ms  
Loss rate: 13.36%

-- Flow 3:

Average throughput: 173.15 Mbit/s  
95th percentile per-packet one-way delay: 24.335 ms  
Loss rate: 19.66%



### Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-12-20 10:00:41  
End at: 2017-12-20 10:01:11  
Local clock offset: 0.828 ms  
Remote clock offset: -0.952 ms

# Below is generated by plot.py at 2017-12-20 15:28:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 415.11 Mbit/s  
95th percentile per-packet one-way delay: 42.970 ms  
Loss rate: 19.94%

-- Flow 1:

Average throughput: 202.15 Mbit/s  
95th percentile per-packet one-way delay: 48.676 ms  
Loss rate: 21.54%

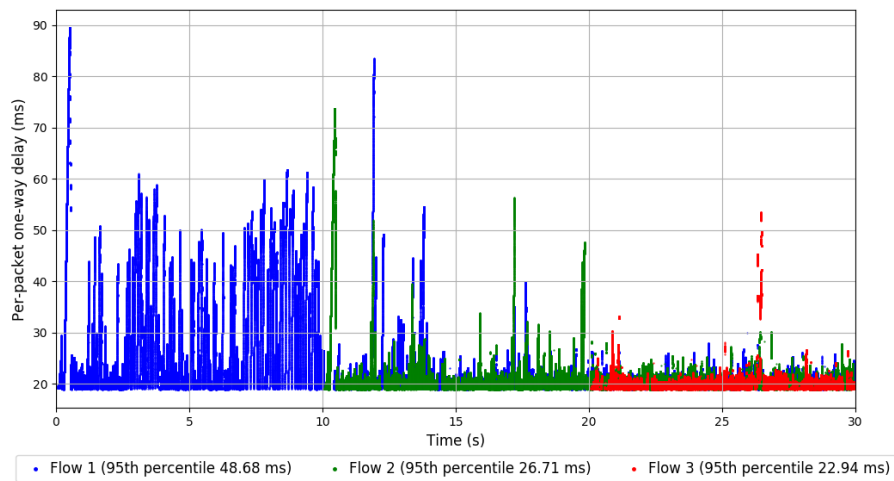
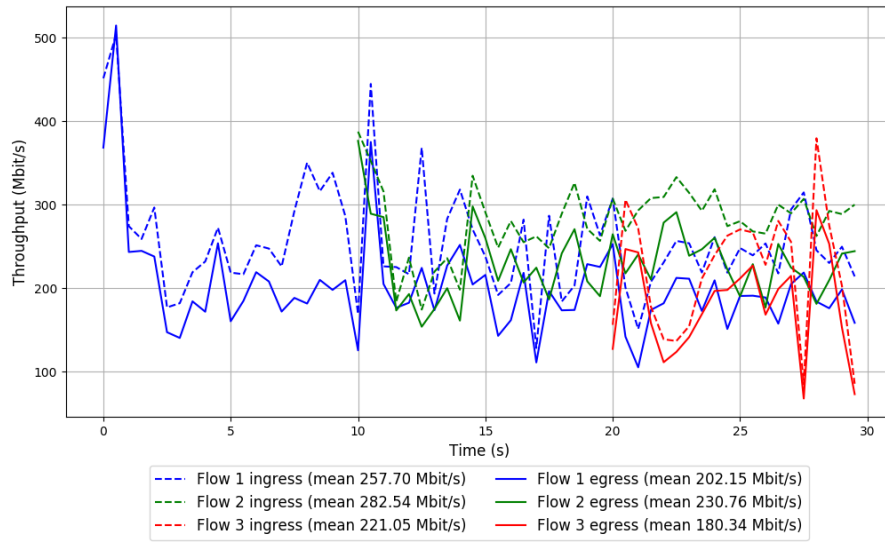
-- Flow 2:

Average throughput: 230.76 Mbit/s  
95th percentile per-packet one-way delay: 26.714 ms  
Loss rate: 18.31%

-- Flow 3:

Average throughput: 180.34 Mbit/s  
95th percentile per-packet one-way delay: 22.940 ms  
Loss rate: 18.47%

### Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-12-20 10:22:36  
End at: 2017-12-20 10:23:06  
Local clock offset: 0.414 ms  
Remote clock offset: -1.377 ms

# Below is generated by plot.py at 2017-12-20 15:28:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 390.82 Mbit/s  
95th percentile per-packet one-way delay: 61.152 ms  
Loss rate: 24.28%

-- Flow 1:

Average throughput: 190.09 Mbit/s  
95th percentile per-packet one-way delay: 61.174 ms  
Loss rate: 21.54%

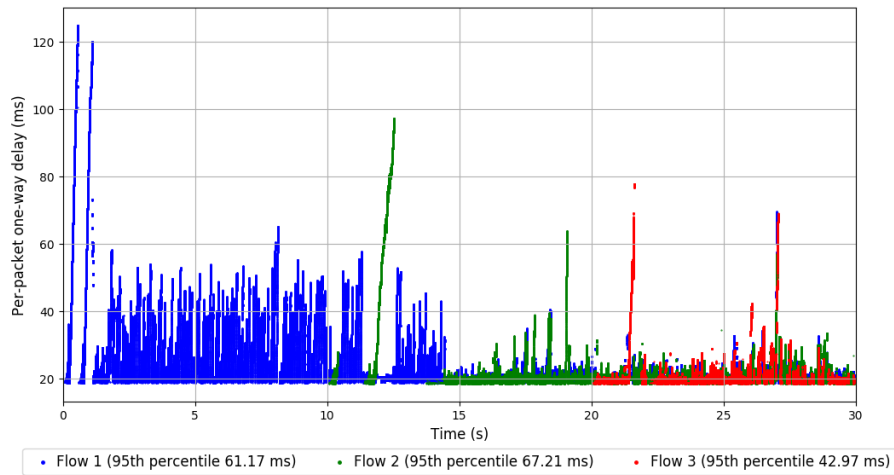
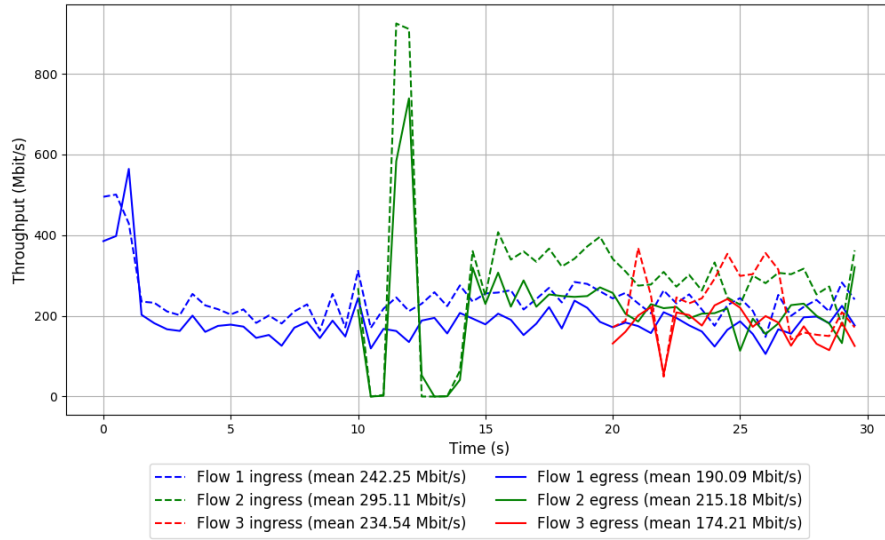
-- Flow 2:

Average throughput: 215.18 Mbit/s  
95th percentile per-packet one-way delay: 67.213 ms  
Loss rate: 27.08%

-- Flow 3:

Average throughput: 174.21 Mbit/s  
95th percentile per-packet one-way delay: 42.965 ms  
Loss rate: 25.72%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-12-20 10:44:17  
End at: 2017-12-20 10:44:47  
Local clock offset: 0.157 ms  
Remote clock offset: -1.123 ms

# Below is generated by plot.py at 2017-12-20 15:30:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 406.62 Mbit/s  
95th percentile per-packet one-way delay: 31.819 ms  
Loss rate: 22.78%

-- Flow 1:

Average throughput: 205.97 Mbit/s  
95th percentile per-packet one-way delay: 38.055 ms  
Loss rate: 24.44%

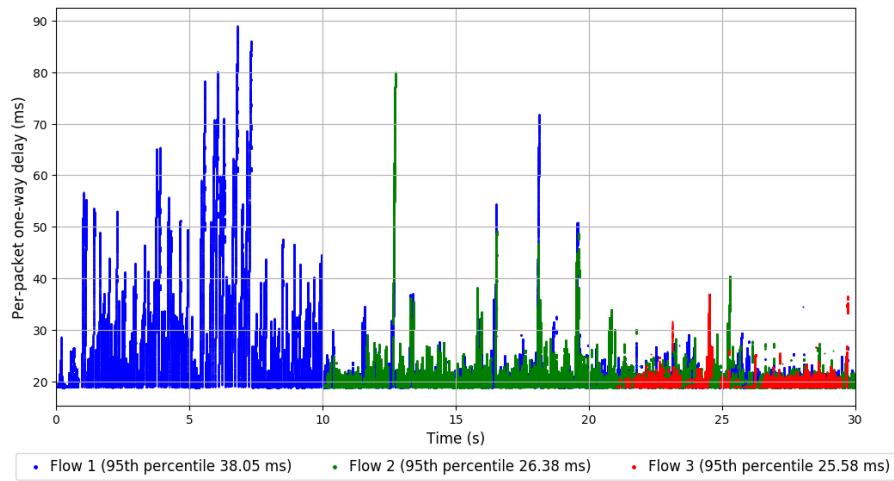
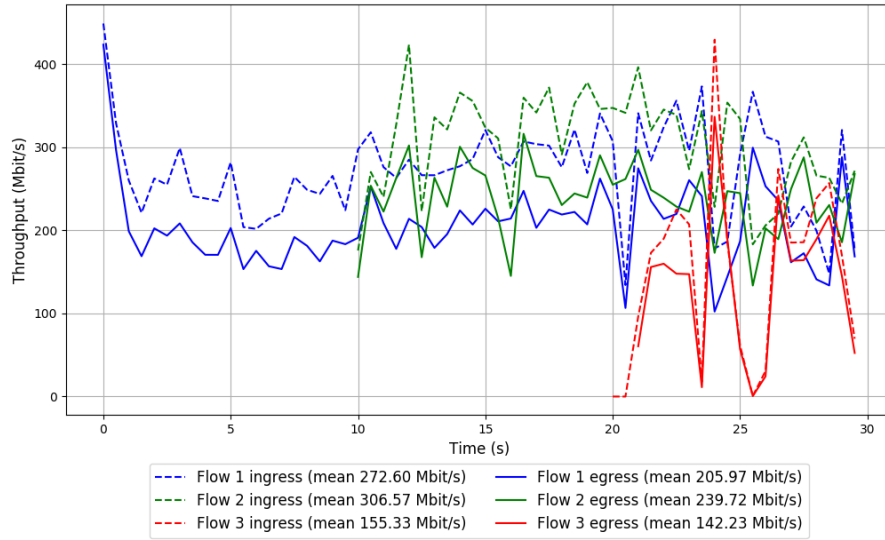
-- Flow 2:

Average throughput: 239.72 Mbit/s  
95th percentile per-packet one-way delay: 26.376 ms  
Loss rate: 21.80%

-- Flow 3:

Average throughput: 142.23 Mbit/s  
95th percentile per-packet one-way delay: 25.584 ms  
Loss rate: 17.76%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-12-20 11:06:20  
End at: 2017-12-20 11:06:50  
Local clock offset: -0.037 ms  
Remote clock offset: -1.146 ms

# Below is generated by plot.py at 2017-12-20 15:30:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 435.49 Mbit/s  
95th percentile per-packet one-way delay: 40.329 ms  
Loss rate: 20.28%

-- Flow 1:

Average throughput: 229.02 Mbit/s  
95th percentile per-packet one-way delay: 62.464 ms  
Loss rate: 21.93%

-- Flow 2:

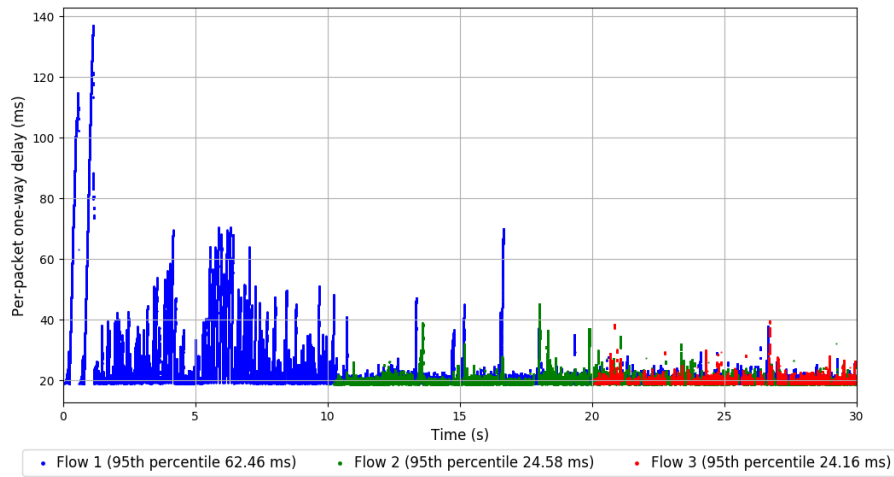
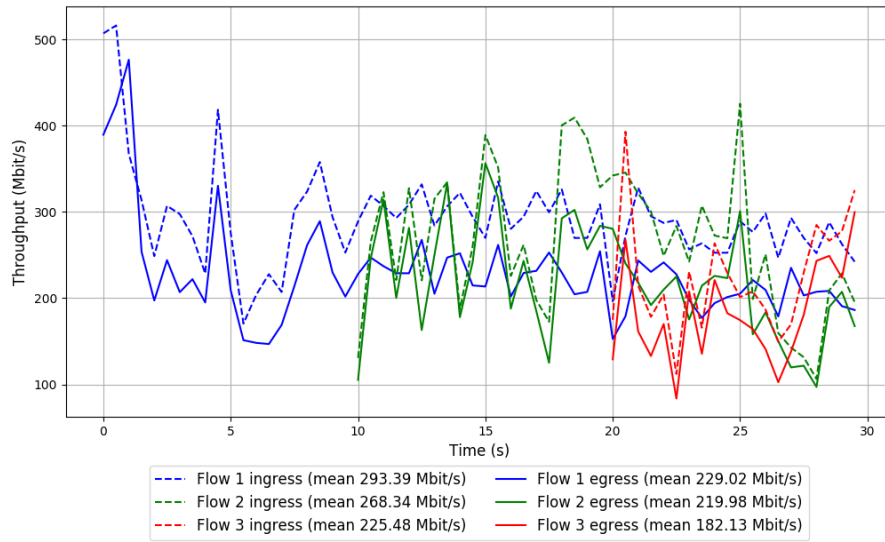
Average throughput: 219.98 Mbit/s  
95th percentile per-packet one-way delay: 24.583 ms  
Loss rate: 18.01%

-- Flow 3:

Average throughput: 182.13 Mbit/s  
95th percentile per-packet one-way delay: 24.165 ms  
Loss rate: 19.21%



### Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-12-20 11:27:55  
End at: 2017-12-20 11:28:25  
Local clock offset: -0.008 ms  
Remote clock offset: -1.487 ms

# Below is generated by plot.py at 2017-12-20 15:30:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 401.85 Mbit/s  
95th percentile per-packet one-way delay: 27.286 ms  
Loss rate: 18.01%

-- Flow 1:

Average throughput: 203.32 Mbit/s  
95th percentile per-packet one-way delay: 31.278 ms  
Loss rate: 15.20%

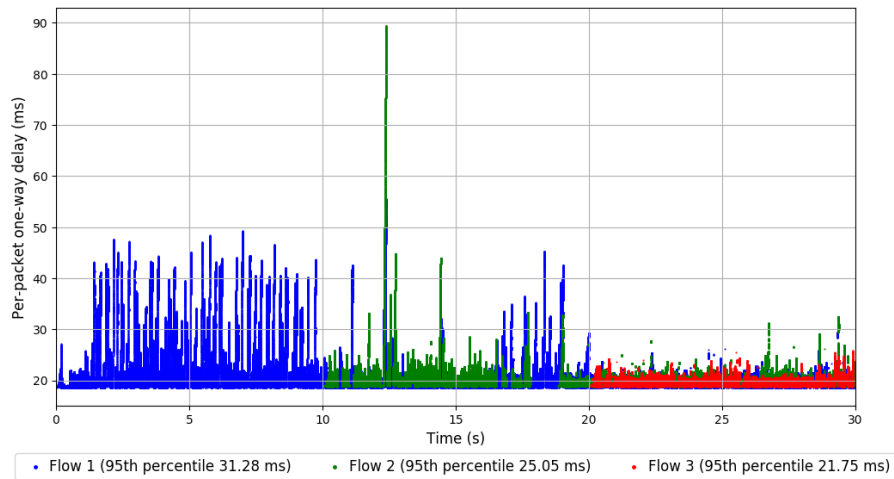
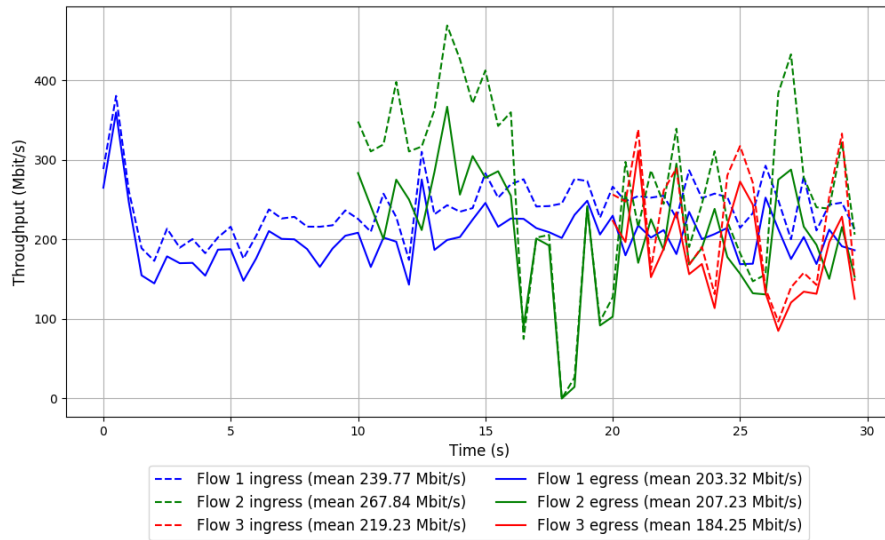
-- Flow 2:

Average throughput: 207.23 Mbit/s  
95th percentile per-packet one-way delay: 25.048 ms  
Loss rate: 22.61%

-- Flow 3:

Average throughput: 184.25 Mbit/s  
95th percentile per-packet one-way delay: 21.745 ms  
Loss rate: 15.96%

### Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-12-20 11:50:02  
End at: 2017-12-20 11:50:32  
Local clock offset: -0.085 ms  
Remote clock offset: -1.942 ms

# Below is generated by plot.py at 2017-12-20 15:32:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 411.12 Mbit/s  
95th percentile per-packet one-way delay: 27.791 ms  
Loss rate: 18.47%

-- Flow 1:

Average throughput: 221.12 Mbit/s  
95th percentile per-packet one-way delay: 29.617 ms  
Loss rate: 15.21%

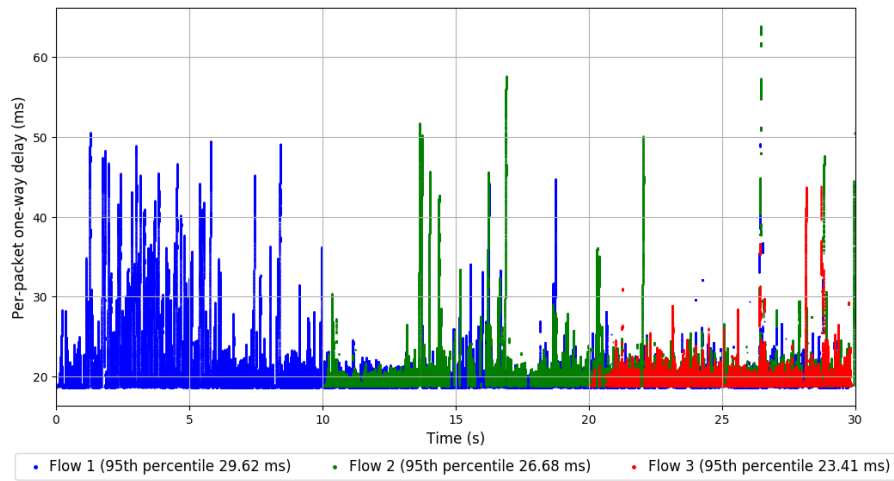
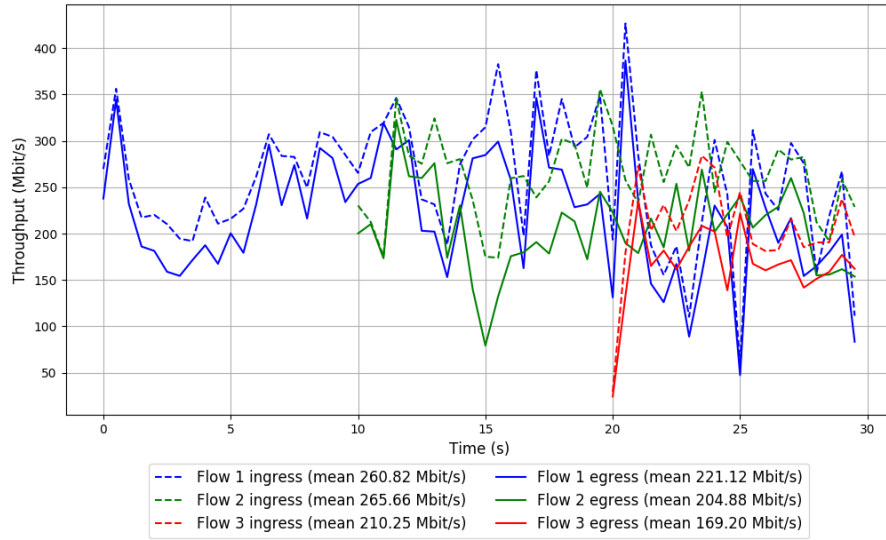
-- Flow 2:

Average throughput: 204.88 Mbit/s  
95th percentile per-packet one-way delay: 26.675 ms  
Loss rate: 22.84%

-- Flow 3:

Average throughput: 169.20 Mbit/s  
95th percentile per-packet one-way delay: 23.410 ms  
Loss rate: 19.53%

### Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-12-20 12:12:01  
End at: 2017-12-20 12:12:31  
Local clock offset: -0.124 ms  
Remote clock offset: -2.073 ms

# Below is generated by plot.py at 2017-12-20 15:35:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 429.02 Mbit/s  
95th percentile per-packet one-way delay: 38.630 ms  
Loss rate: 19.43%

-- Flow 1:

Average throughput: 228.02 Mbit/s  
95th percentile per-packet one-way delay: 45.614 ms  
Loss rate: 18.45%

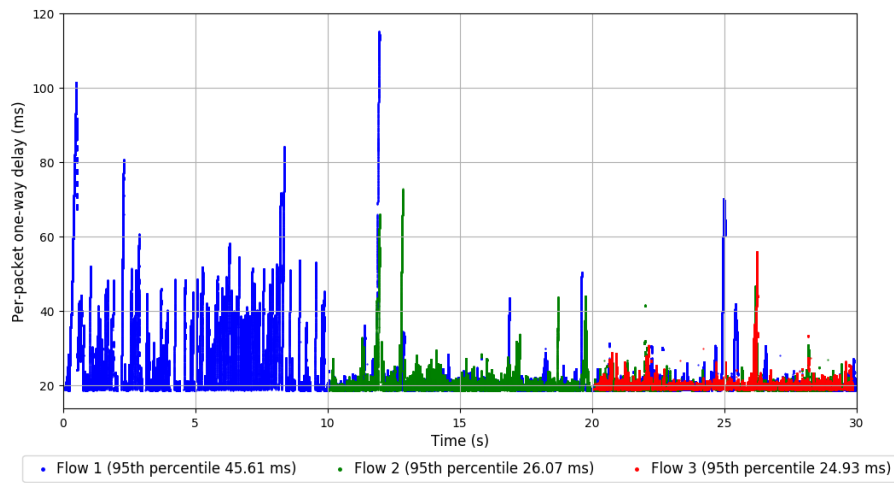
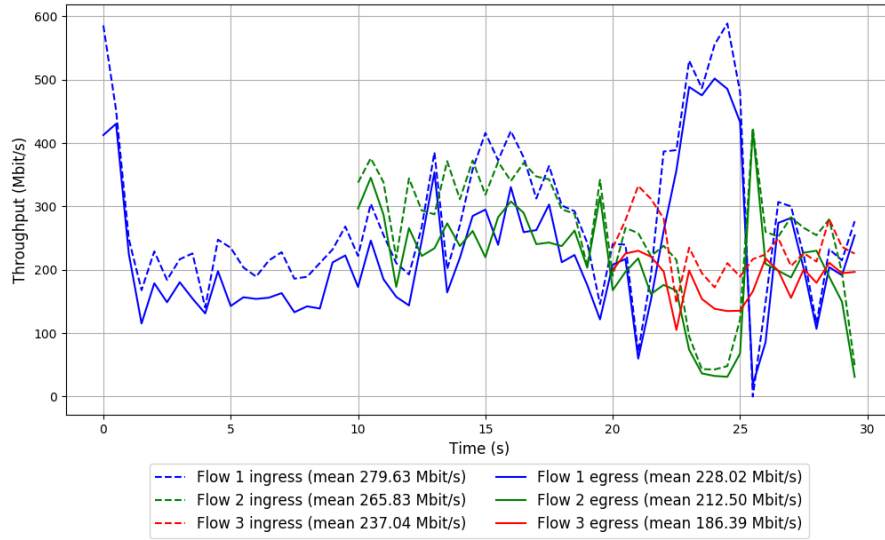
-- Flow 2:

Average throughput: 212.50 Mbit/s  
95th percentile per-packet one-way delay: 26.073 ms  
Loss rate: 20.06%

-- Flow 3:

Average throughput: 186.39 Mbit/s  
95th percentile per-packet one-way delay: 24.927 ms  
Loss rate: 21.53%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-12-20 08:48:59

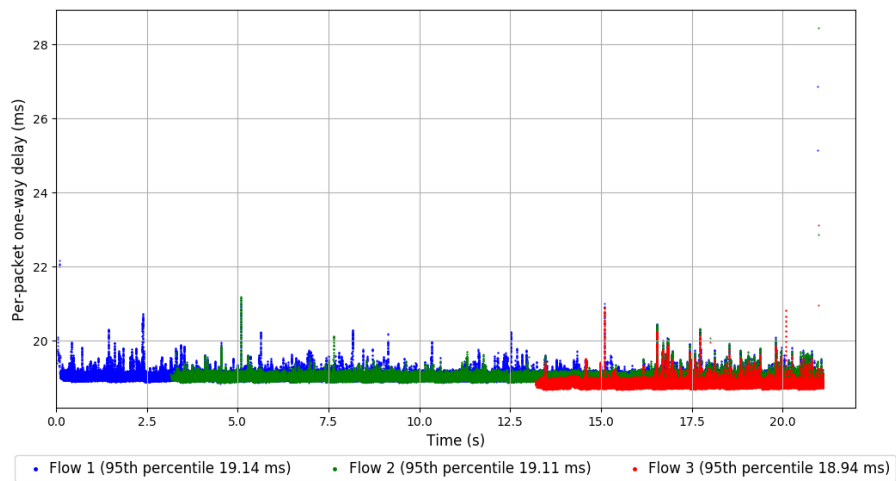
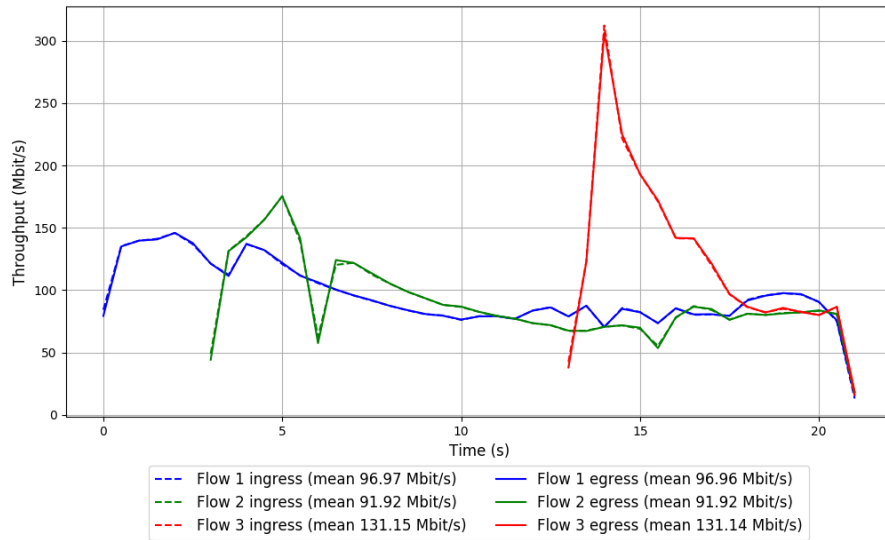
End at: 2017-12-20 08:49:29

Local clock offset: 0.939 ms

Remote clock offset: -0.781 ms



### Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

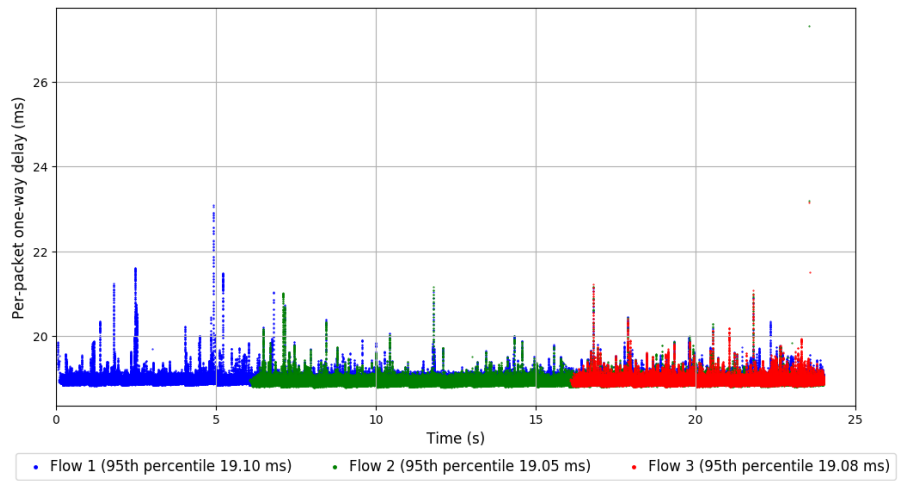
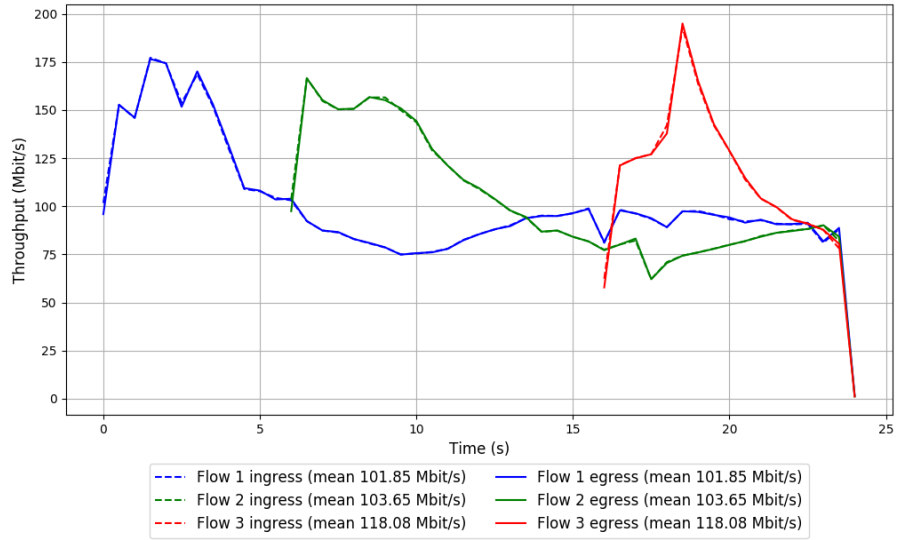
Start at: 2017-12-20 09:10:44

End at: 2017-12-20 09:11:14

Local clock offset: 1.038 ms

Remote clock offset: -0.953 ms

## Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-12-20 09:32:36  
End at: 2017-12-20 09:33:06  
Local clock offset: 0.961 ms  
Remote clock offset: -1.108 ms

# Below is generated by plot.py at 2017-12-20 15:35:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 199.85 Mbit/s  
95th percentile per-packet one-way delay: 19.128 ms  
Loss rate: 0.00%

-- Flow 1:

Average throughput: 99.00 Mbit/s  
95th percentile per-packet one-way delay: 19.142 ms  
Loss rate: 0.00%

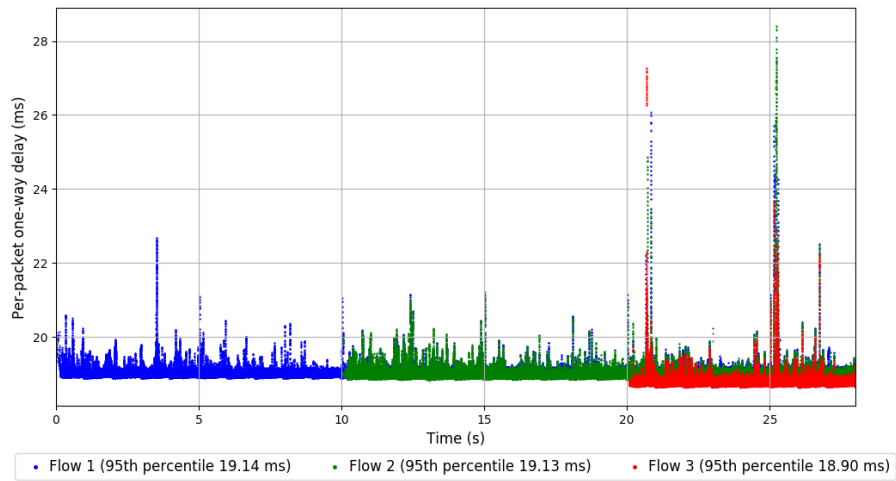
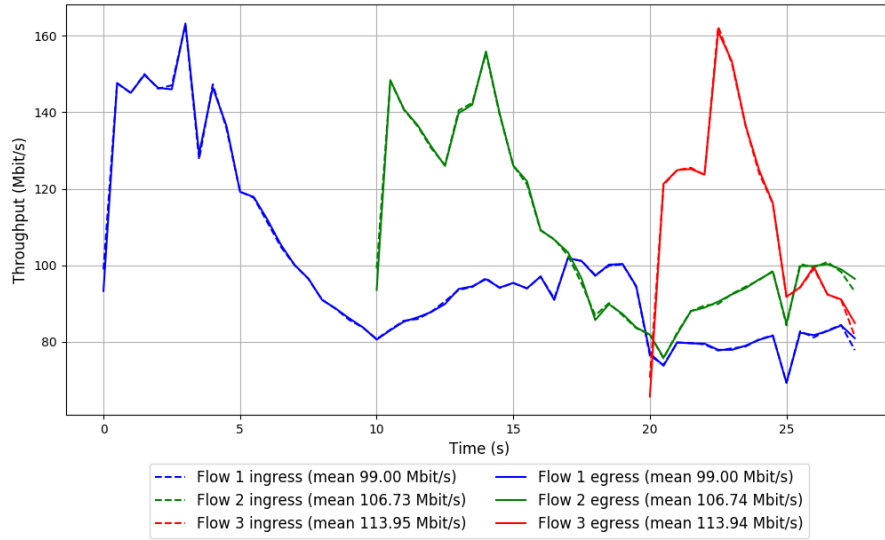
-- Flow 2:

Average throughput: 106.74 Mbit/s  
95th percentile per-packet one-way delay: 19.131 ms  
Loss rate: 0.00%

-- Flow 3:

Average throughput: 113.94 Mbit/s  
95th percentile per-packet one-way delay: 18.903 ms  
Loss rate: 0.02%

### Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-12-20 09:54:21  
End at: 2017-12-20 09:54:51  
Local clock offset: 0.921 ms  
Remote clock offset: -0.995 ms

# Below is generated by plot.py at 2017-12-20 15:35:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 195.61 Mbit/s  
95th percentile per-packet one-way delay: 18.996 ms  
Loss rate: 0.00%

-- Flow 1:

Average throughput: 99.42 Mbit/s  
95th percentile per-packet one-way delay: 18.811 ms  
Loss rate: 0.00%

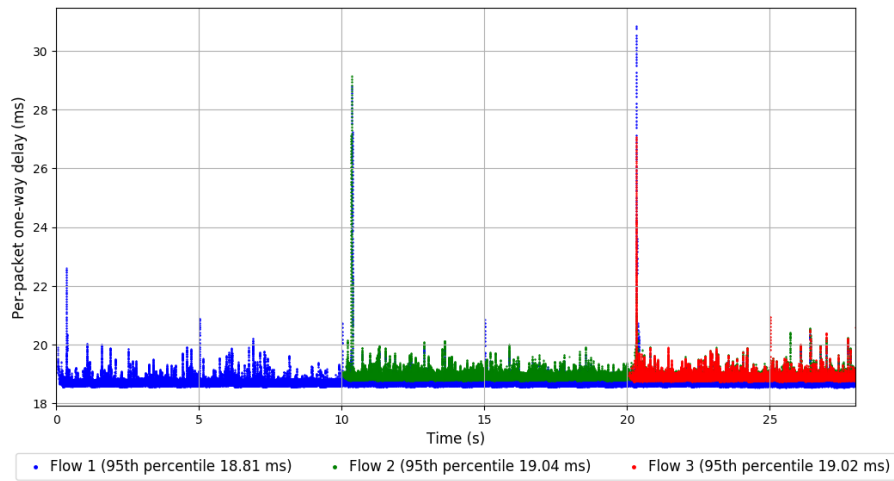
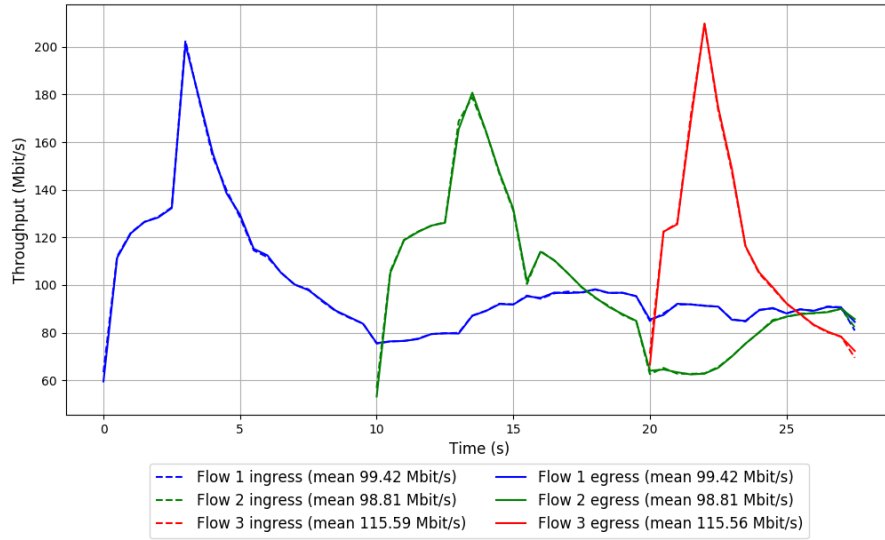
-- Flow 2:

Average throughput: 98.81 Mbit/s  
95th percentile per-packet one-way delay: 19.040 ms  
Loss rate: 0.00%

-- Flow 3:

Average throughput: 115.56 Mbit/s  
95th percentile per-packet one-way delay: 19.019 ms  
Loss rate: 0.00%

### Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-12-20 10:16:10  
End at: 2017-12-20 10:16:40  
Local clock offset: 0.527 ms  
Remote clock offset: -1.245 ms

# Below is generated by plot.py at 2017-12-20 15:35:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 199.53 Mbit/s  
95th percentile per-packet one-way delay: 19.113 ms  
Loss rate: 0.01%

-- Flow 1:

Average throughput: 103.09 Mbit/s  
95th percentile per-packet one-way delay: 19.109 ms  
Loss rate: 0.01%

-- Flow 2:

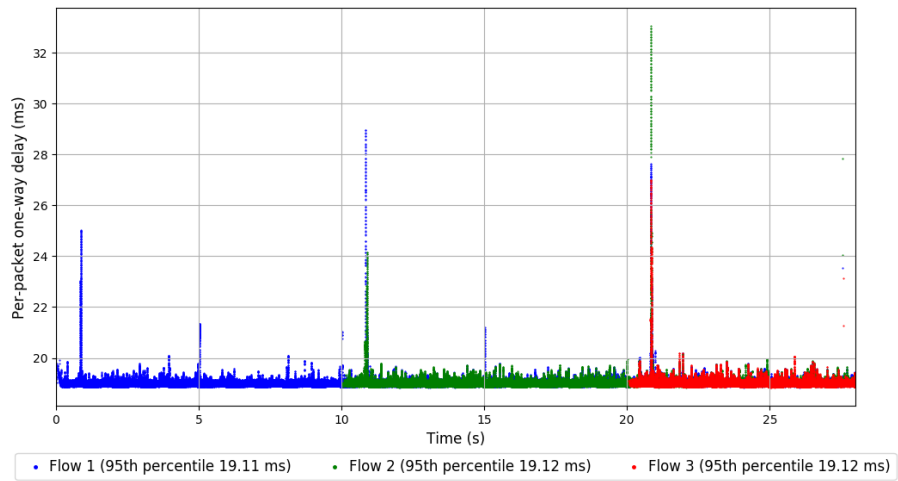
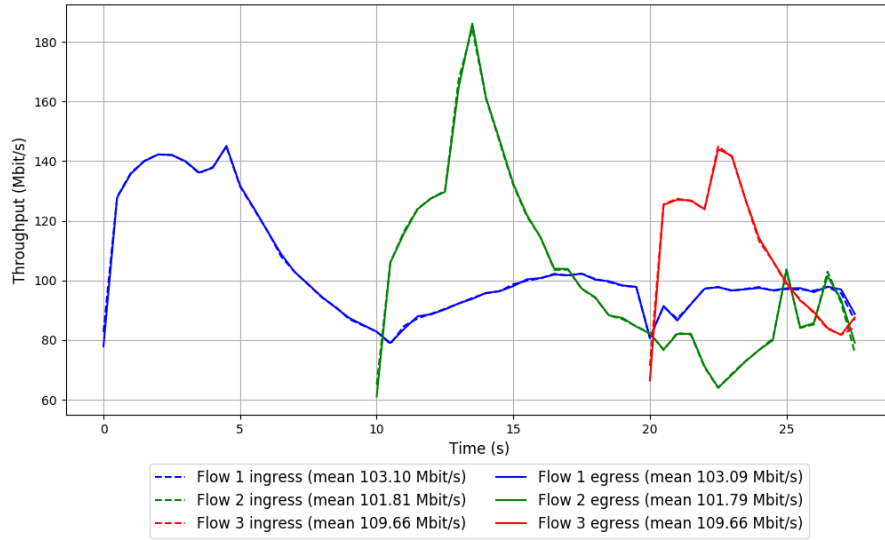
Average throughput: 101.79 Mbit/s  
95th percentile per-packet one-way delay: 19.116 ms  
Loss rate: 0.01%

-- Flow 3:

Average throughput: 109.66 Mbit/s  
95th percentile per-packet one-way delay: 19.123 ms  
Loss rate: 0.04%



### Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-12-20 10:38:03  
End at: 2017-12-20 10:38:33  
Local clock offset: 0.203 ms  
Remote clock offset: -1.217 ms

# Below is generated by plot.py at 2017-12-20 15:35:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 192.60 Mbit/s  
95th percentile per-packet one-way delay: 19.097 ms  
Loss rate: 0.00%

-- Flow 1:

Average throughput: 95.59 Mbit/s  
95th percentile per-packet one-way delay: 19.095 ms  
Loss rate: 0.00%

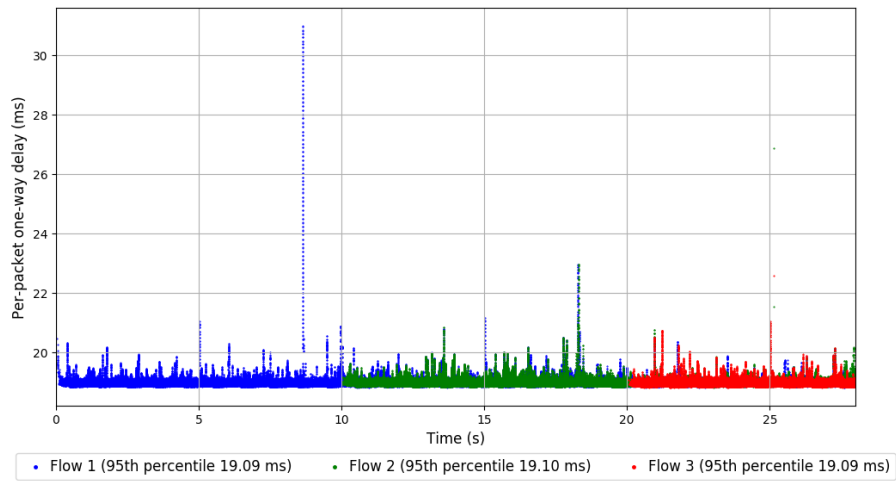
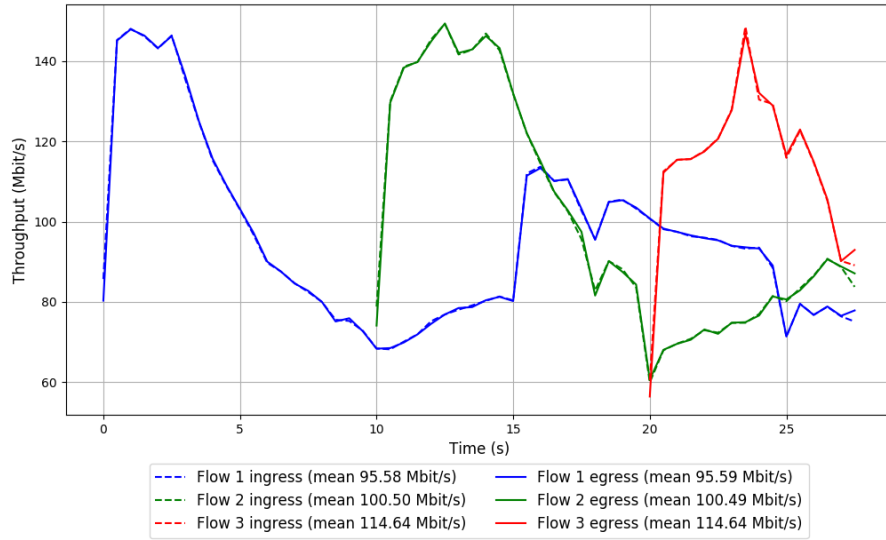
-- Flow 2:

Average throughput: 100.49 Mbit/s  
95th percentile per-packet one-way delay: 19.102 ms  
Loss rate: 0.01%

-- Flow 3:

Average throughput: 114.64 Mbit/s  
95th percentile per-packet one-way delay: 19.092 ms  
Loss rate: 0.00%

### Run 6: Report of Copa — Data Link

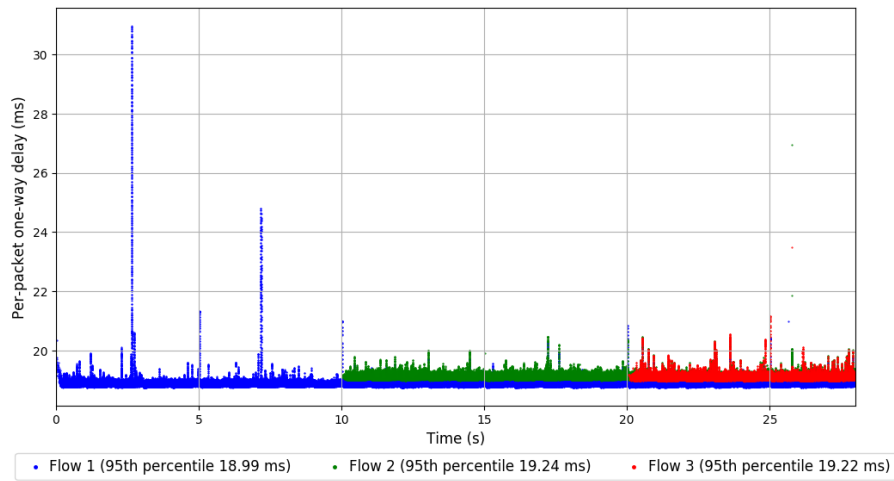
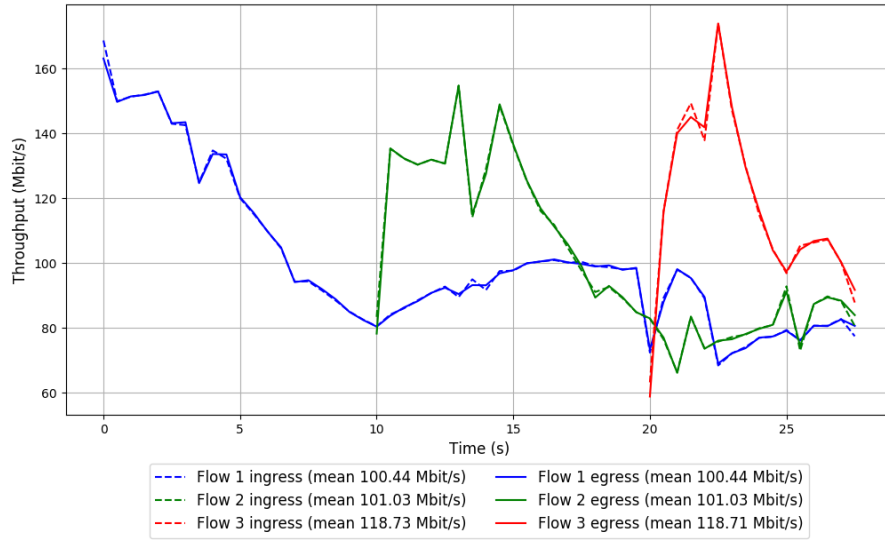


Run 7: Statistics of Copa

Start at: 2017-12-20 10:59:58  
End at: 2017-12-20 11:00:28  
Local clock offset: 0.041 ms  
Remote clock offset: -1.132 ms

```
# Below is generated by plot.py at 2017-12-20 15:37:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 198.89 Mbit/s
95th percentile per-packet one-way delay: 19.195 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 100.44 Mbit/s
95th percentile per-packet one-way delay: 18.989 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 101.03 Mbit/s
95th percentile per-packet one-way delay: 19.237 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 118.71 Mbit/s
95th percentile per-packet one-way delay: 19.222 ms
Loss rate: 0.01%
```

### Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

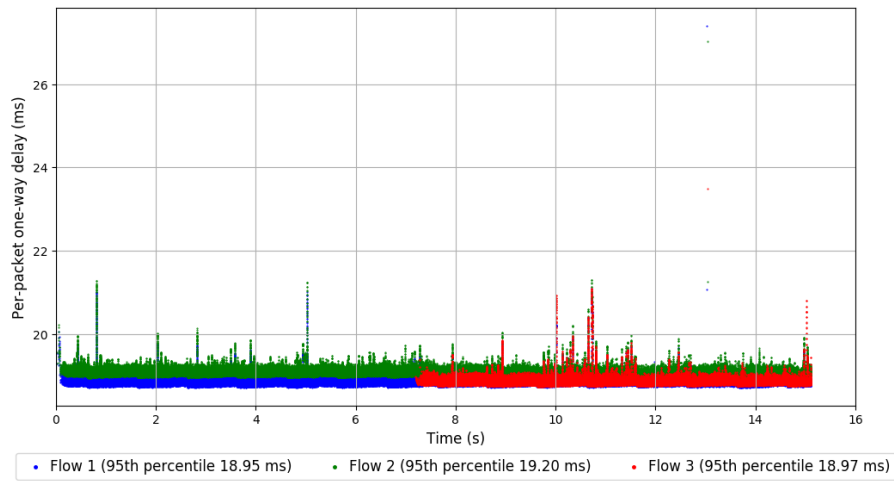
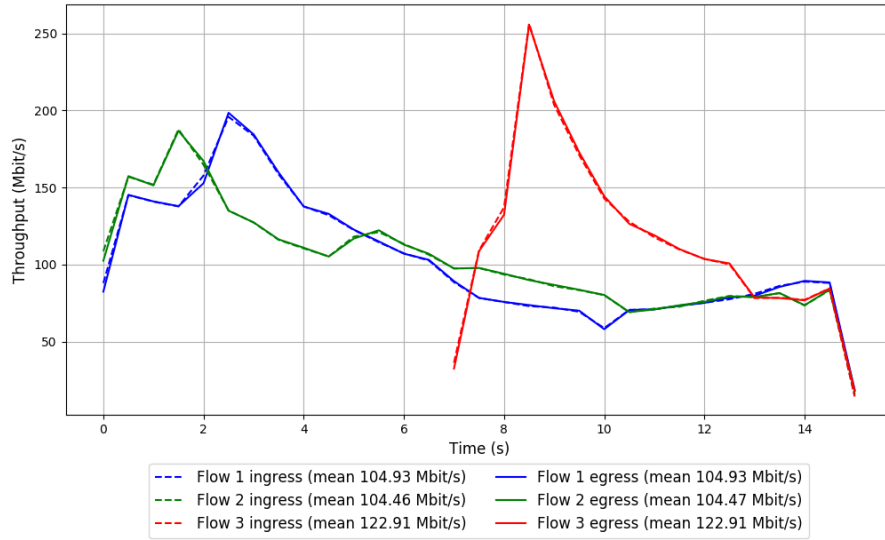
Start at: 2017-12-20 11:21:38

End at: 2017-12-20 11:22:08

Local clock offset: -0.093 ms

Remote clock offset: -1.277 ms

### Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-12-20 11:43:37  
End at: 2017-12-20 11:44:07  
Local clock offset: -0.104 ms  
Remote clock offset: -1.826 ms

# Below is generated by plot.py at 2017-12-20 15:38:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 205.52 Mbit/s  
95th percentile per-packet one-way delay: 19.026 ms  
Loss rate: 0.00%

-- Flow 1:

Average throughput: 106.58 Mbit/s  
95th percentile per-packet one-way delay: 19.058 ms  
Loss rate: 0.00%

-- Flow 2:

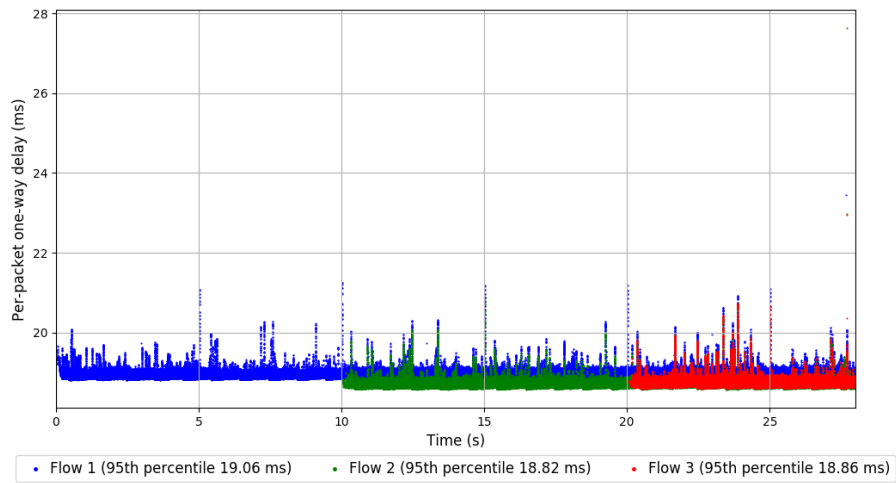
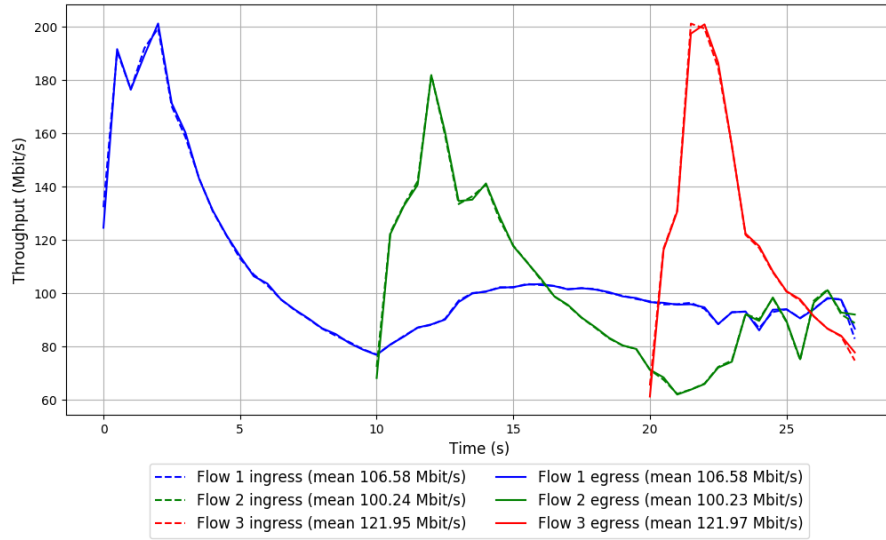
Average throughput: 100.23 Mbit/s  
95th percentile per-packet one-way delay: 18.820 ms  
Loss rate: 0.01%

-- Flow 3:

Average throughput: 121.97 Mbit/s  
95th percentile per-packet one-way delay: 18.856 ms  
Loss rate: 0.00%



### Run 9: Report of Copa — Data Link

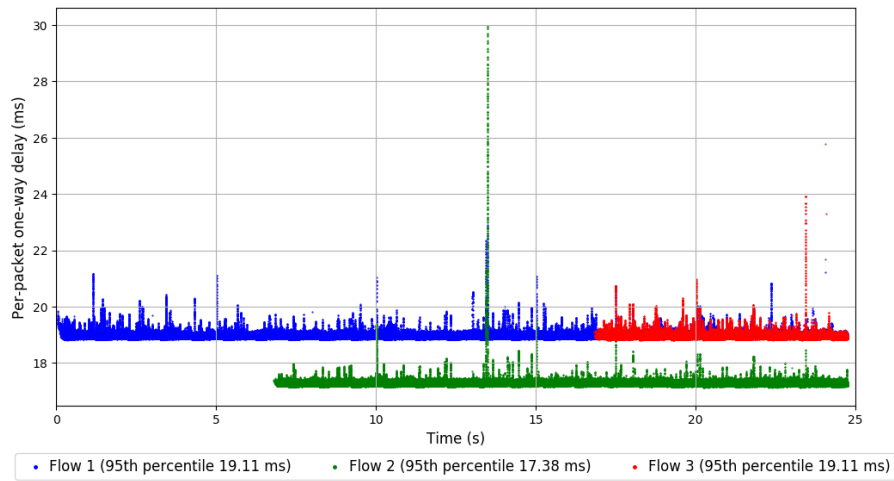
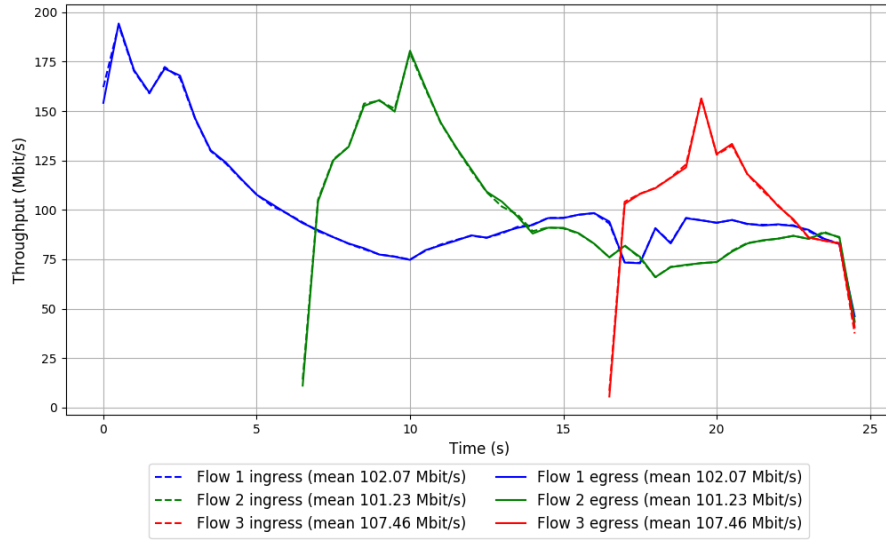


Run 10: Statistics of Copa

Start at: 2017-12-20 12:05:39  
End at: 2017-12-20 12:06:09  
Local clock offset: -0.1 ms  
Remote clock offset: -2.195 ms

```
# Below is generated by plot.py at 2017-12-20 15:38:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 209.95 Mbit/s
95th percentile per-packet one-way delay: 19.067 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 102.07 Mbit/s
95th percentile per-packet one-way delay: 19.107 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 101.23 Mbit/s
95th percentile per-packet one-way delay: 17.384 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 107.46 Mbit/s
95th percentile per-packet one-way delay: 19.109 ms
Loss rate: 0.00%
```

### Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2017-12-20 08:51:48  
End at: 2017-12-20 08:52:18  
Local clock offset: 0.904 ms  
Remote clock offset: -0.773 ms

# Below is generated by plot.py at 2017-12-20 15:50:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 951.35 Mbit/s  
95th percentile per-packet one-way delay: 28.097 ms  
Loss rate: 11.41%

-- Flow 1:

Average throughput: 578.51 Mbit/s  
95th percentile per-packet one-way delay: 31.205 ms  
Loss rate: 9.09%

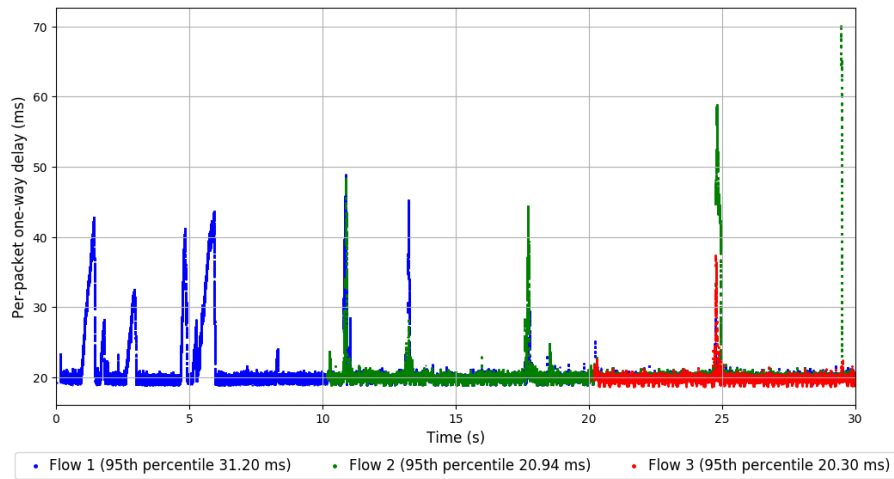
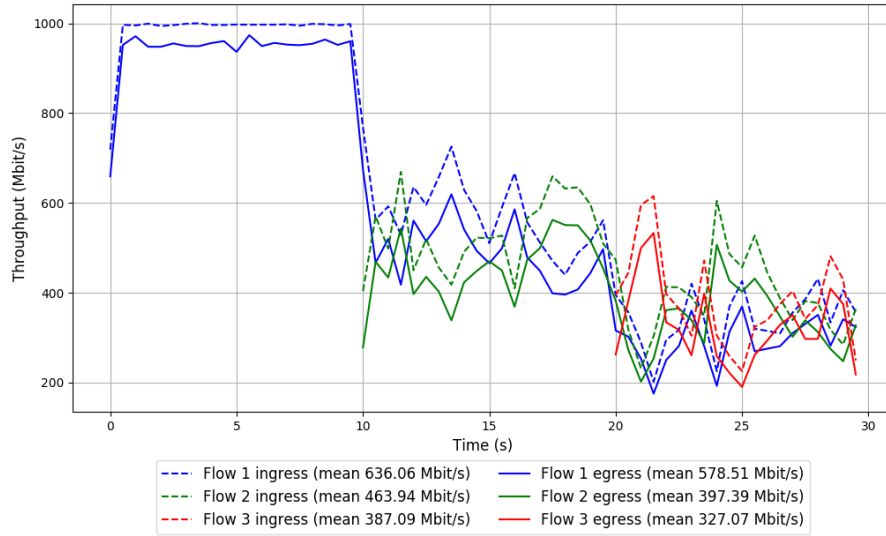
-- Flow 2:

Average throughput: 397.39 Mbit/s  
95th percentile per-packet one-way delay: 20.942 ms  
Loss rate: 14.41%

-- Flow 3:

Average throughput: 327.07 Mbit/s  
95th percentile per-packet one-way delay: 20.304 ms  
Loss rate: 15.65%

### Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2017-12-20 09:13:35  
End at: 2017-12-20 09:14:05  
Local clock offset: 0.934 ms  
Remote clock offset: -1.033 ms

# Below is generated by plot.py at 2017-12-20 15:50:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 948.74 Mbit/s  
95th percentile per-packet one-way delay: 39.183 ms  
Loss rate: 10.98%

-- Flow 1:

Average throughput: 551.69 Mbit/s  
95th percentile per-packet one-way delay: 44.824 ms  
Loss rate: 8.72%

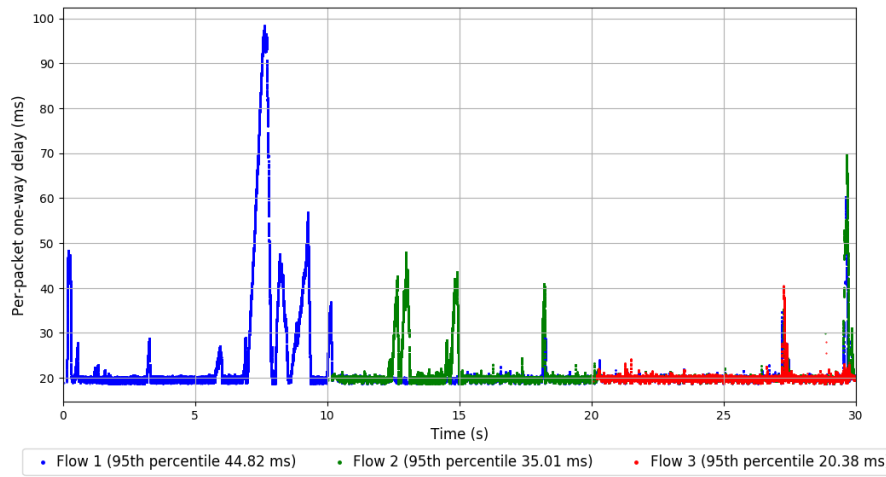
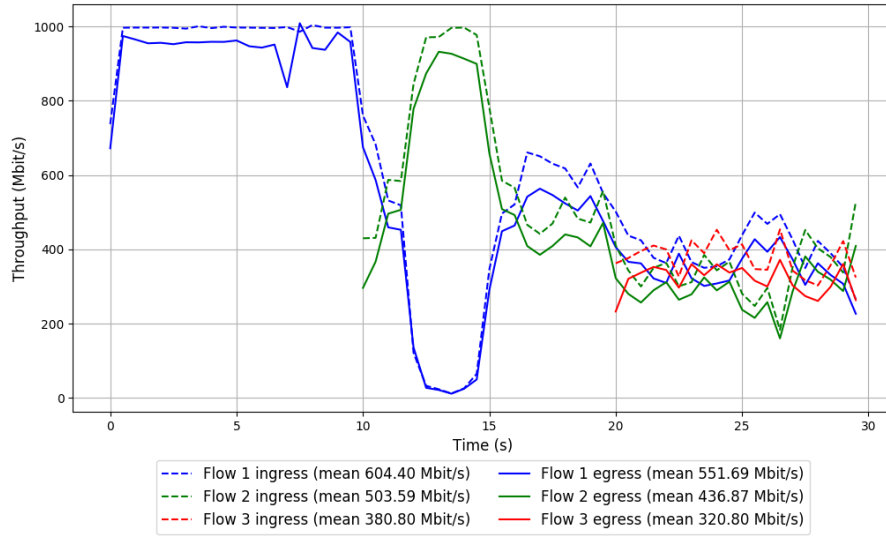
-- Flow 2:

Average throughput: 436.87 Mbit/s  
95th percentile per-packet one-way delay: 35.007 ms  
Loss rate: 13.25%

-- Flow 3:

Average throughput: 320.80 Mbit/s  
95th percentile per-packet one-way delay: 20.378 ms  
Loss rate: 15.76%

## Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2017-12-20 09:35:24  
End at: 2017-12-20 09:35:54  
Local clock offset: 0.948 ms  
Remote clock offset: -1.104 ms

# Below is generated by plot.py at 2017-12-20 15:50:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 939.23 Mbit/s  
95th percentile per-packet one-way delay: 54.669 ms  
Loss rate: 11.77%

-- Flow 1:

Average throughput: 646.52 Mbit/s  
95th percentile per-packet one-way delay: 67.044 ms  
Loss rate: 9.86%

-- Flow 2:

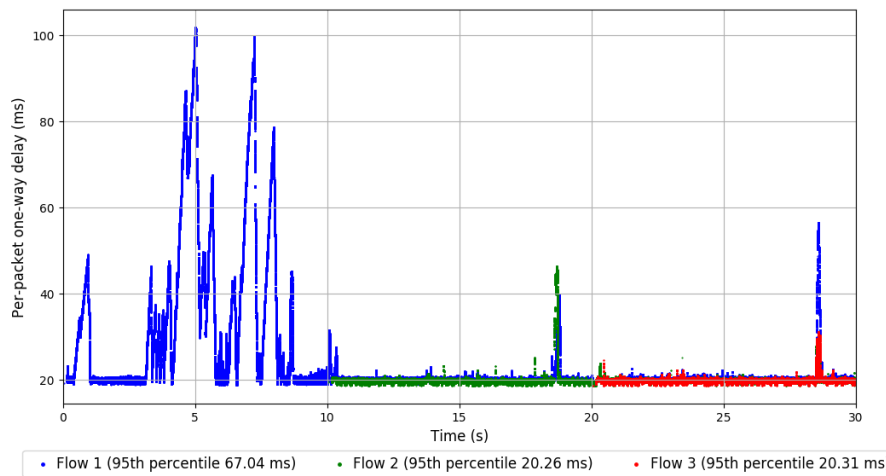
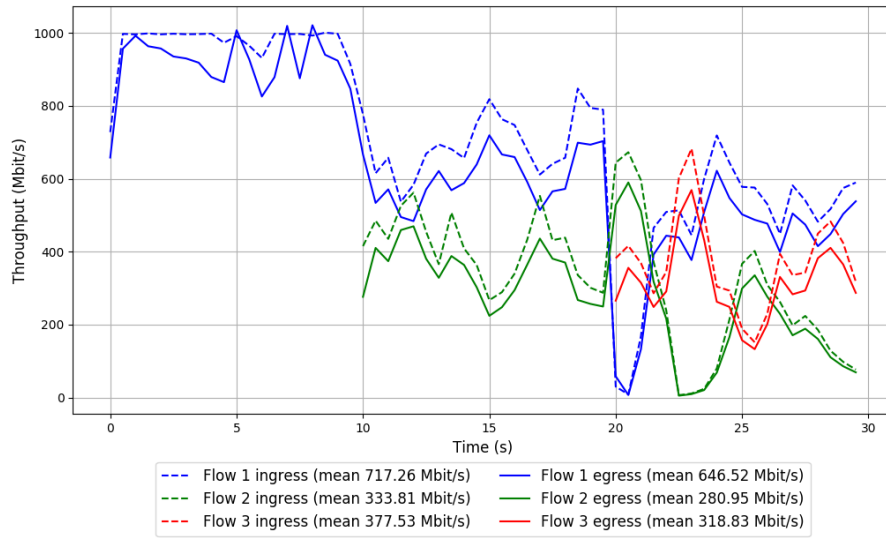
Average throughput: 280.95 Mbit/s  
95th percentile per-packet one-way delay: 20.259 ms  
Loss rate: 15.83%

-- Flow 3:

Average throughput: 318.83 Mbit/s  
95th percentile per-packet one-way delay: 20.307 ms  
Loss rate: 15.54%



### Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2017-12-20 09:57:08  
End at: 2017-12-20 09:57:38  
Local clock offset: 0.902 ms  
Remote clock offset: -0.889 ms

# Below is generated by plot.py at 2017-12-20 15:50:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 942.59 Mbit/s  
95th percentile per-packet one-way delay: 61.424 ms  
Loss rate: 11.70%

-- Flow 1:

Average throughput: 565.77 Mbit/s  
95th percentile per-packet one-way delay: 76.501 ms  
Loss rate: 9.45%

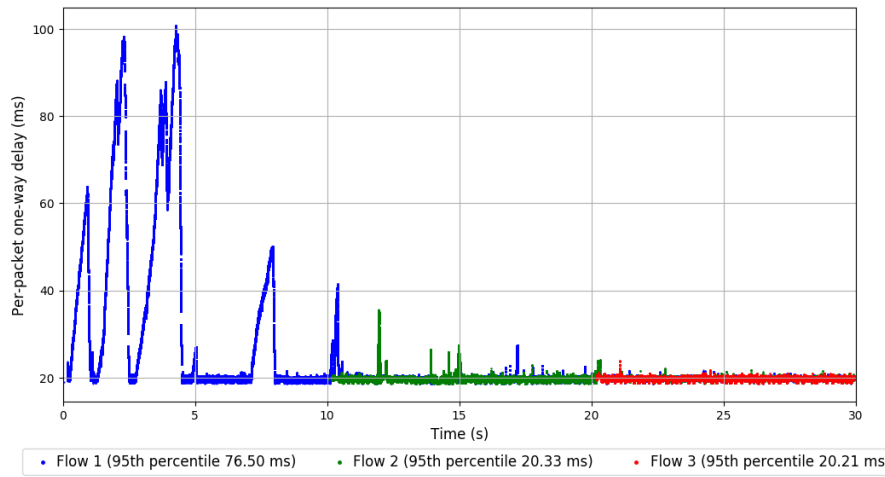
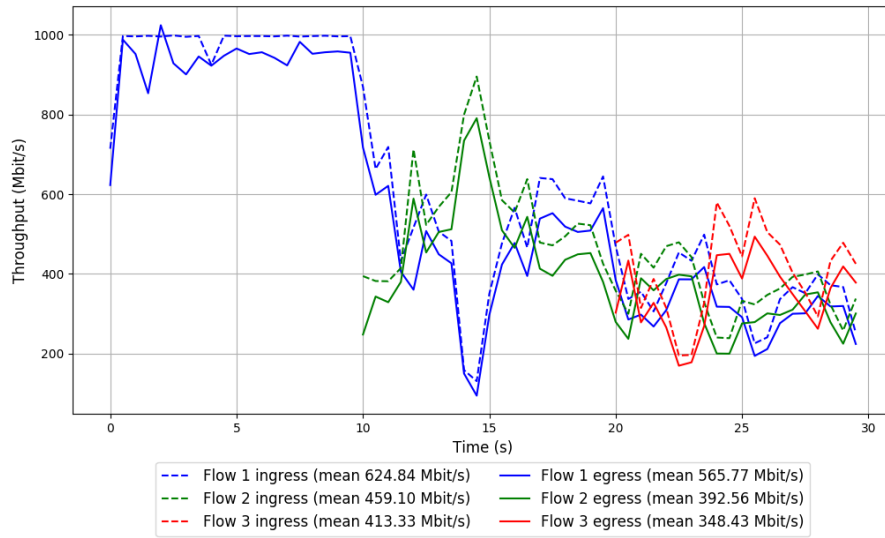
-- Flow 2:

Average throughput: 392.56 Mbit/s  
95th percentile per-packet one-way delay: 20.329 ms  
Loss rate: 14.49%

-- Flow 3:

Average throughput: 348.43 Mbit/s  
95th percentile per-packet one-way delay: 20.211 ms  
Loss rate: 15.70%

### Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2017-12-20 10:19:04

End at: 2017-12-20 10:19:34

Local clock offset: 0.464 ms

Remote clock offset: -1.41 ms

# Below is generated by plot.py at 2017-12-20 15:50:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 930.74 Mbit/s

95th percentile per-packet one-way delay: 52.496 ms

Loss rate: 12.30%

-- Flow 1:

Average throughput: 573.64 Mbit/s

95th percentile per-packet one-way delay: 72.344 ms

Loss rate: 10.09%

-- Flow 2:

Average throughput: 356.34 Mbit/s

95th percentile per-packet one-way delay: 20.180 ms

Loss rate: 15.88%

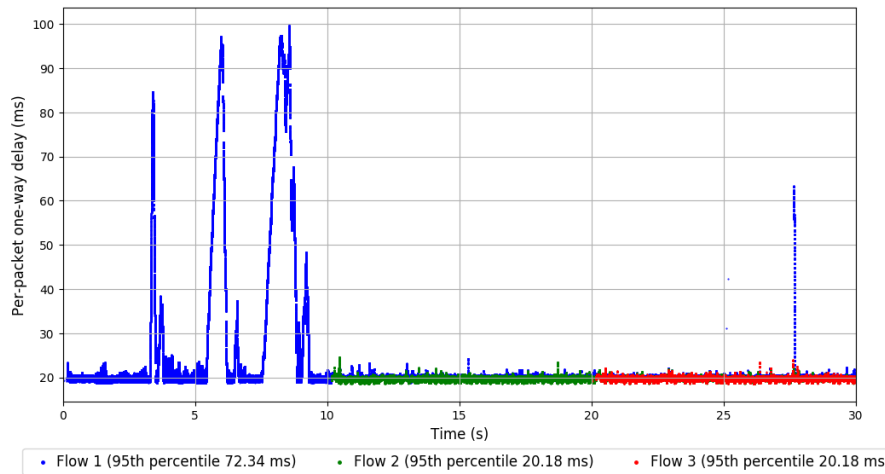
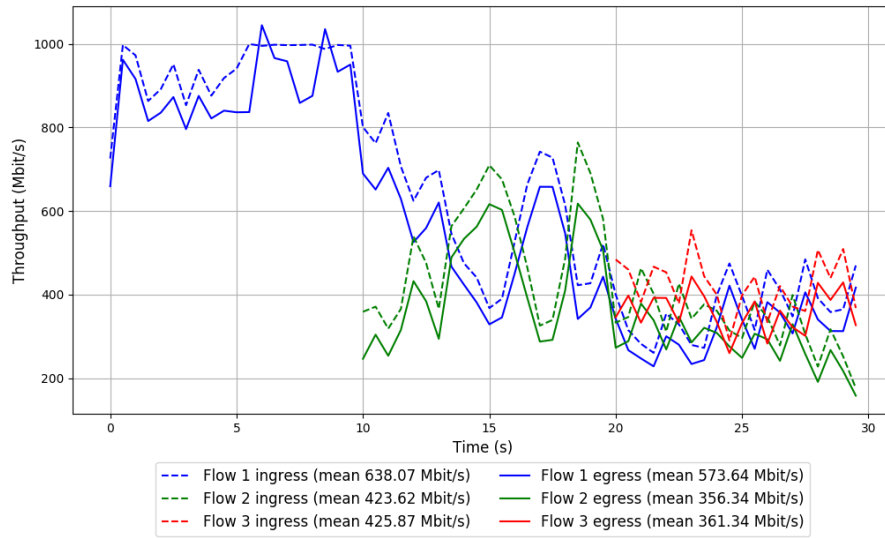
-- Flow 3:

Average throughput: 361.34 Mbit/s

95th percentile per-packet one-way delay: 20.180 ms

Loss rate: 15.14%

### Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2017-12-20 10:40:53  
End at: 2017-12-20 10:41:23  
Local clock offset: 0.265 ms  
Remote clock offset: -1.166 ms

# Below is generated by plot.py at 2017-12-20 15:50:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 800.74 Mbit/s  
95th percentile per-packet one-way delay: 80.468 ms  
Loss rate: 10.63%

-- Flow 1:

Average throughput: 462.49 Mbit/s  
95th percentile per-packet one-way delay: 81.877 ms  
Loss rate: 9.84%

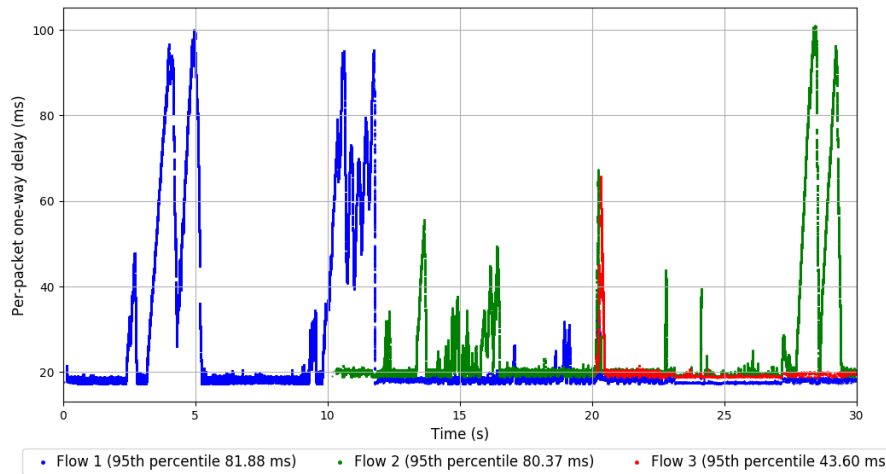
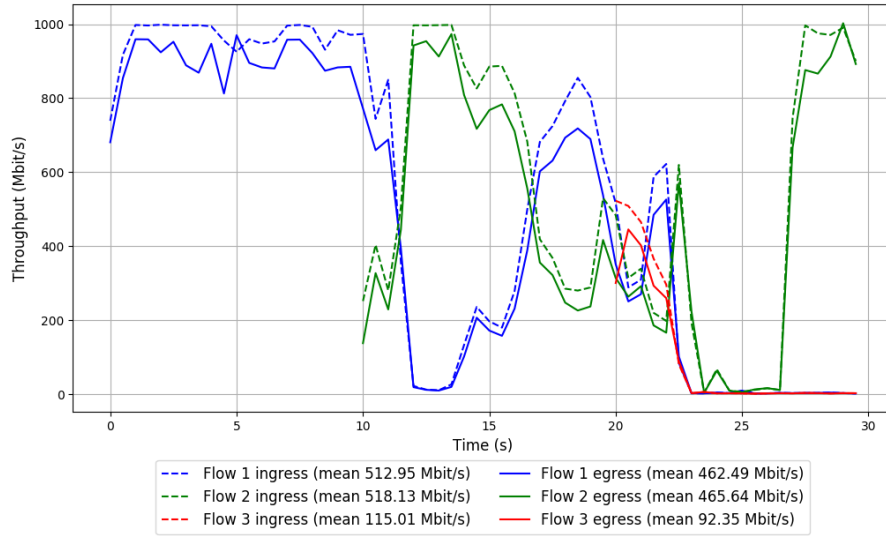
-- Flow 2:

Average throughput: 465.64 Mbit/s  
95th percentile per-packet one-way delay: 80.372 ms  
Loss rate: 10.81%

-- Flow 3:

Average throughput: 92.35 Mbit/s  
95th percentile per-packet one-way delay: 43.598 ms  
Loss rate: 19.71%

Run 6: Report of FillP — Data Link



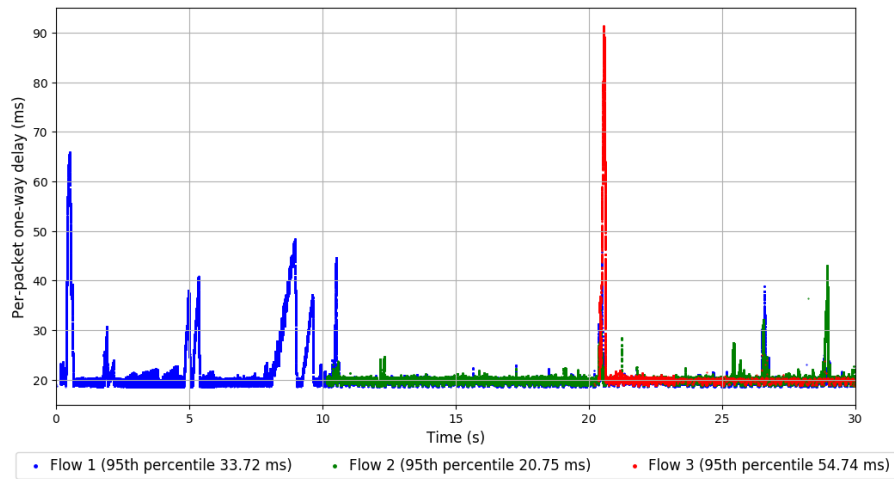
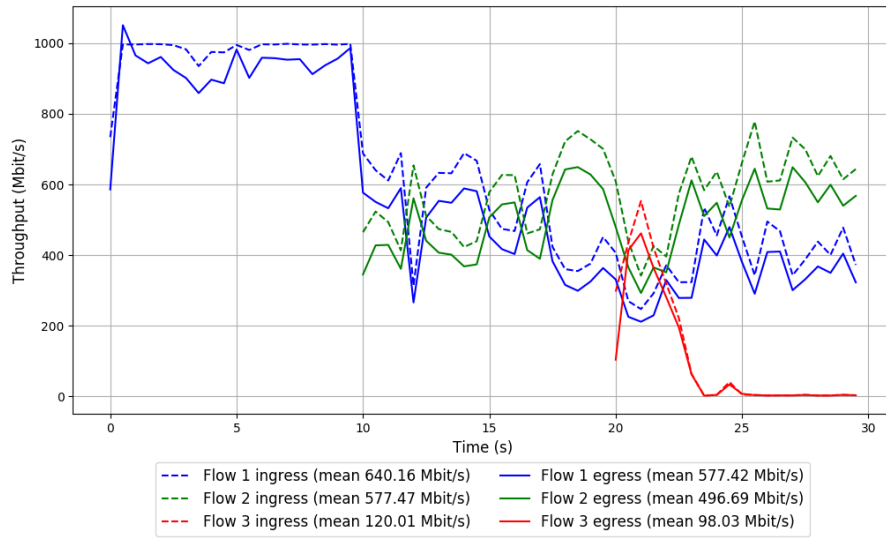
Run 7: Statistics of FillP

Start at: 2017-12-20 11:02:47  
End at: 2017-12-20 11:03:17  
Local clock offset: 0.091 ms  
Remote clock offset: -1.267 ms

```
# Below is generated by plot.py at 2017-12-20 15:52:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 940.53 Mbit/s
95th percentile per-packet one-way delay: 29.221 ms
Loss rate: 11.63%
-- Flow 1:
Average throughput: 577.42 Mbit/s
95th percentile per-packet one-way delay: 33.720 ms
Loss rate: 9.80%
-- Flow 2:
Average throughput: 496.69 Mbit/s
95th percentile per-packet one-way delay: 20.753 ms
Loss rate: 13.99%
-- Flow 3:
Average throughput: 98.03 Mbit/s
95th percentile per-packet one-way delay: 54.742 ms
Loss rate: 18.32%
```



### Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2017-12-20 11:24:23  
End at: 2017-12-20 11:24:53  
Local clock offset: -0.008 ms  
Remote clock offset: -1.344 ms

# Below is generated by plot.py at 2017-12-20 15:52:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 950.21 Mbit/s  
95th percentile per-packet one-way delay: 21.350 ms  
Loss rate: 11.38%

-- Flow 1:

Average throughput: 553.36 Mbit/s  
95th percentile per-packet one-way delay: 23.068 ms  
Loss rate: 8.93%

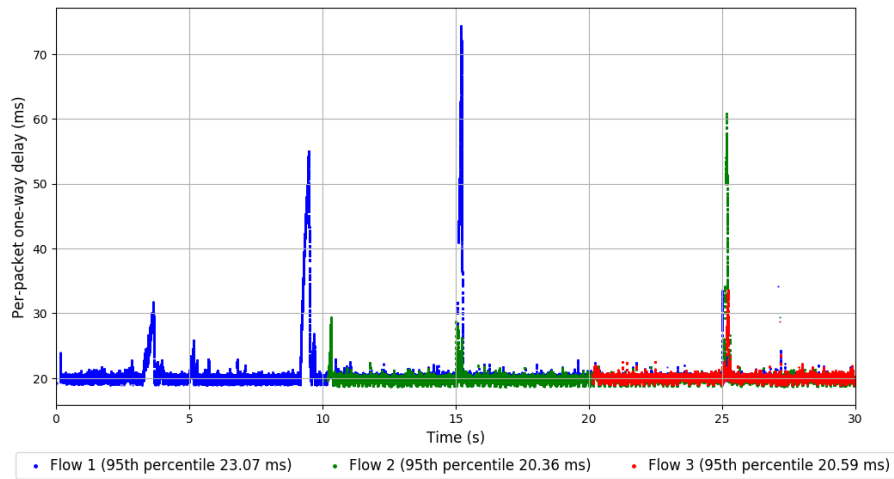
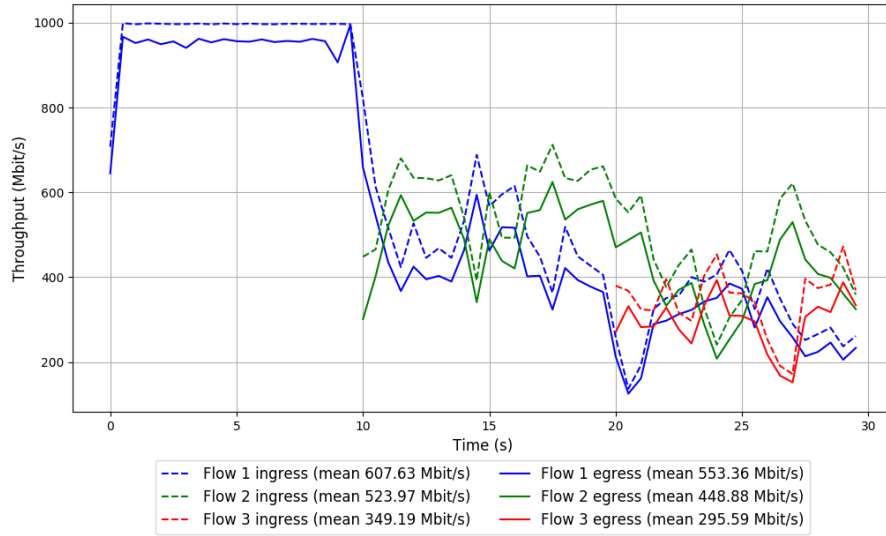
-- Flow 2:

Average throughput: 448.88 Mbit/s  
95th percentile per-packet one-way delay: 20.356 ms  
Loss rate: 14.34%

-- Flow 3:

Average throughput: 295.59 Mbit/s  
95th percentile per-packet one-way delay: 20.594 ms  
Loss rate: 15.35%

### Run 8: Report of FillP — Data Link

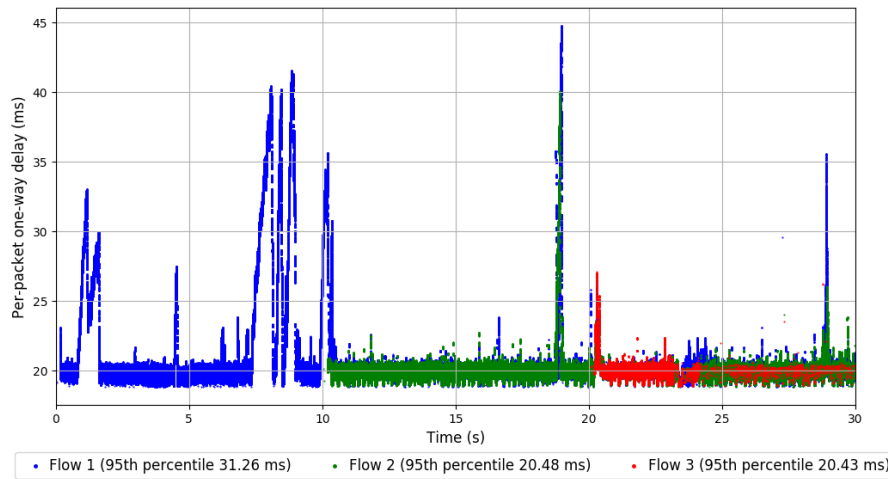
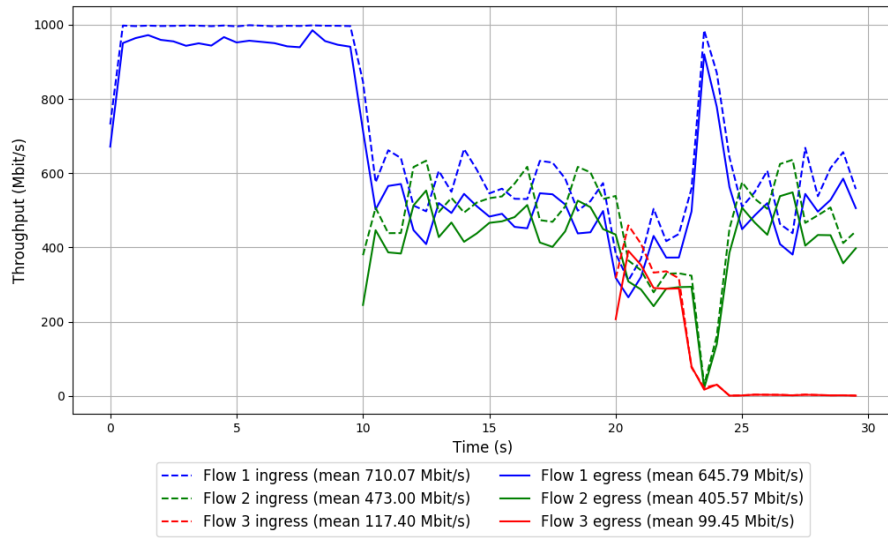


Run 9: Statistics of FillP

Start at: 2017-12-20 11:46:29  
End at: 2017-12-20 11:46:59  
Local clock offset: -0.112 ms  
Remote clock offset: -1.897 ms

```
# Below is generated by plot.py at 2017-12-20 16:00:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 948.64 Mbit/s
95th percentile per-packet one-way delay: 28.233 ms
Loss rate: 10.82%
-- Flow 1:
Average throughput: 645.79 Mbit/s
95th percentile per-packet one-way delay: 31.259 ms
Loss rate: 9.05%
-- Flow 2:
Average throughput: 405.57 Mbit/s
95th percentile per-packet one-way delay: 20.483 ms
Loss rate: 14.25%
-- Flow 3:
Average throughput: 99.45 Mbit/s
95th percentile per-packet one-way delay: 20.434 ms
Loss rate: 15.29%
```

Run 9: Report of FillP — Data Link

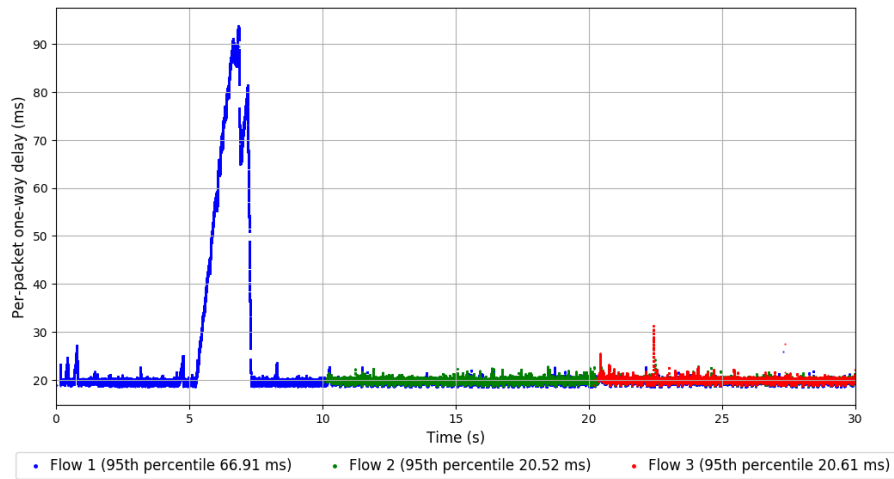
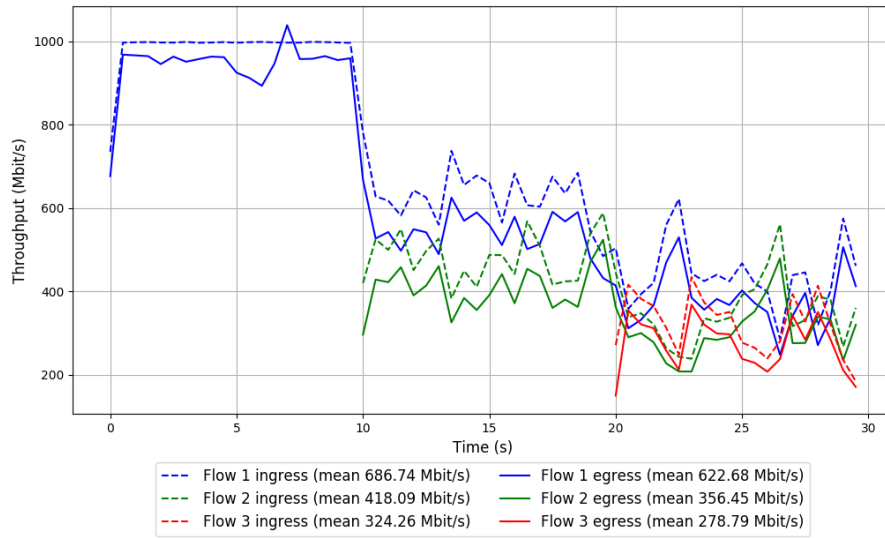


Run 10: Statistics of FillP

Start at: 2017-12-20 12:08:30  
End at: 2017-12-20 12:09:00  
Local clock offset: -0.121 ms  
Remote clock offset: -2.201 ms

```
# Below is generated by plot.py at 2017-12-20 16:00:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 950.94 Mbit/s
95th percentile per-packet one-way delay: 43.677 ms
Loss rate: 11.33%
-- Flow 1:
Average throughput: 622.68 Mbit/s
95th percentile per-packet one-way delay: 66.912 ms
Loss rate: 9.32%
-- Flow 2:
Average throughput: 356.45 Mbit/s
95th percentile per-packet one-way delay: 20.519 ms
Loss rate: 14.73%
-- Flow 3:
Average throughput: 278.79 Mbit/s
95th percentile per-packet one-way delay: 20.606 ms
Loss rate: 15.32%
```

Run 10: Report of FillP — Data Link



Run 1: Statistics of Indigo

Start at: 2017-12-20 08:37:25  
End at: 2017-12-20 08:37:55  
Local clock offset: 1.012 ms  
Remote clock offset: -0.818 ms

# Below is generated by plot.py at 2017-12-20 16:00:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 349.17 Mbit/s  
95th percentile per-packet one-way delay: 19.619 ms  
Loss rate: 0.02%

-- Flow 1:

Average throughput: 183.48 Mbit/s  
95th percentile per-packet one-way delay: 19.589 ms  
Loss rate: 0.00%

-- Flow 2:

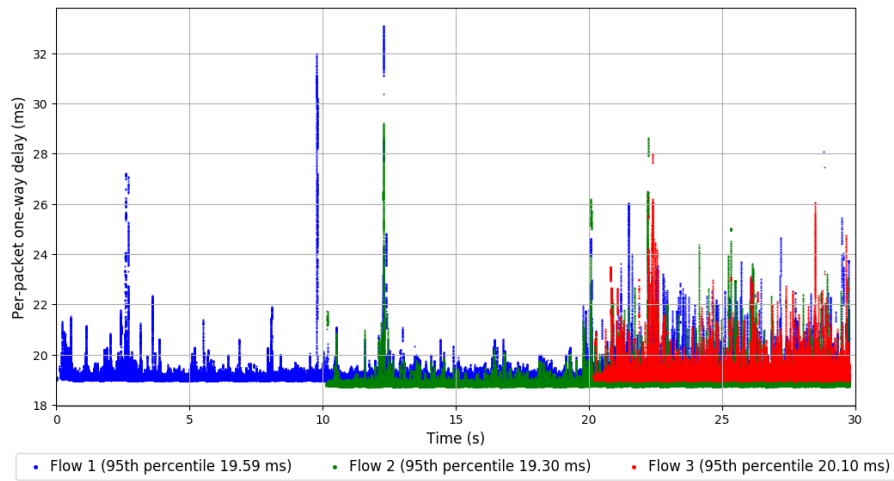
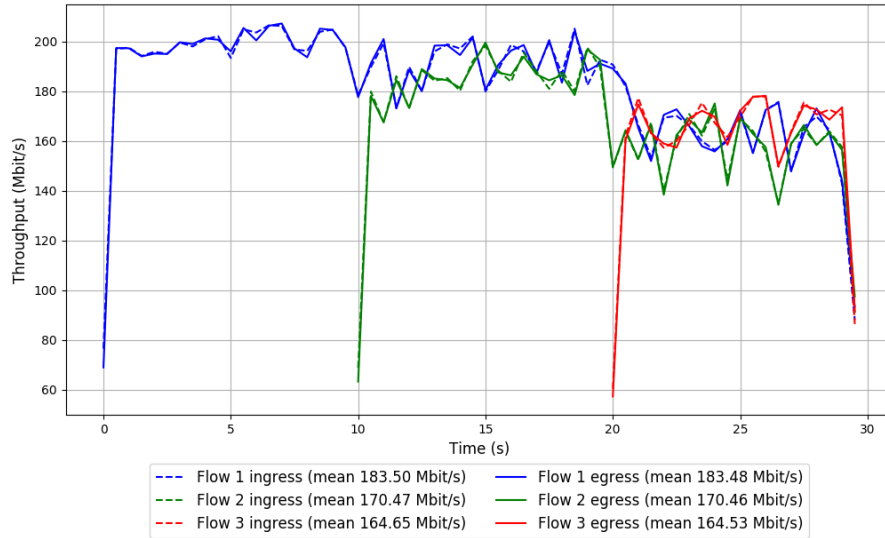
Average throughput: 170.46 Mbit/s  
95th percentile per-packet one-way delay: 19.300 ms  
Loss rate: 0.01%

-- Flow 3:

Average throughput: 164.53 Mbit/s  
95th percentile per-packet one-way delay: 20.103 ms  
Loss rate: 0.07%



# Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-12-20 08:59:21

End at: 2017-12-20 08:59:51

Local clock offset: 0.912 ms

Remote clock offset: -0.67 ms

# Below is generated by plot.py at 2017-12-20 16:00:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 361.62 Mbit/s

95th percentile per-packet one-way delay: 19.675 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 189.00 Mbit/s

95th percentile per-packet one-way delay: 19.701 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 178.78 Mbit/s

95th percentile per-packet one-way delay: 19.848 ms

Loss rate: 0.01%

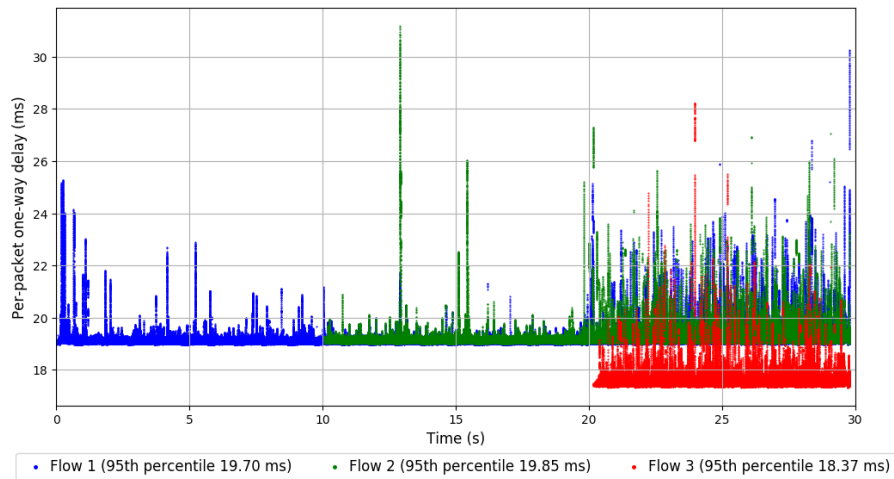
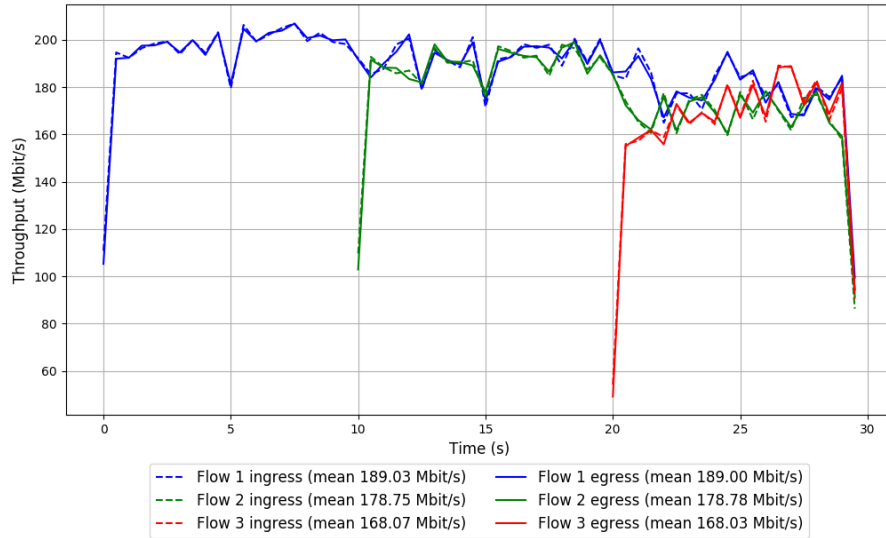
-- Flow 3:

Average throughput: 168.03 Mbit/s

95th percentile per-packet one-way delay: 18.368 ms

Loss rate: 0.03%

## Run 2: Report of Indigo — Data Link

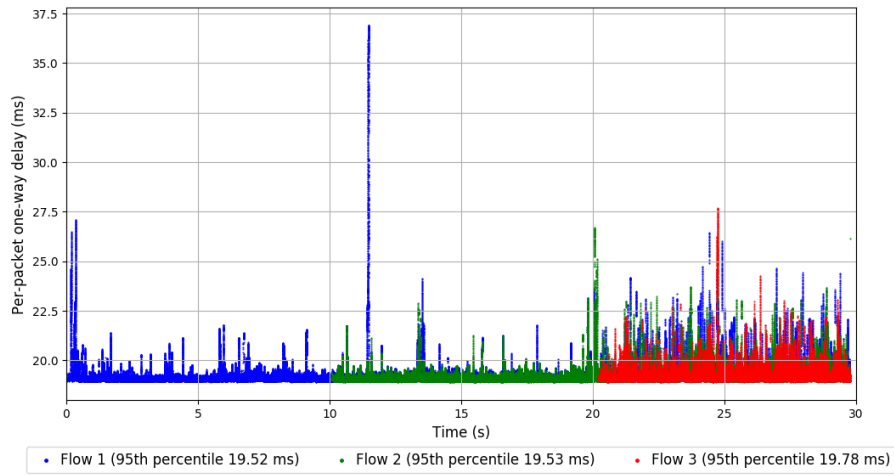
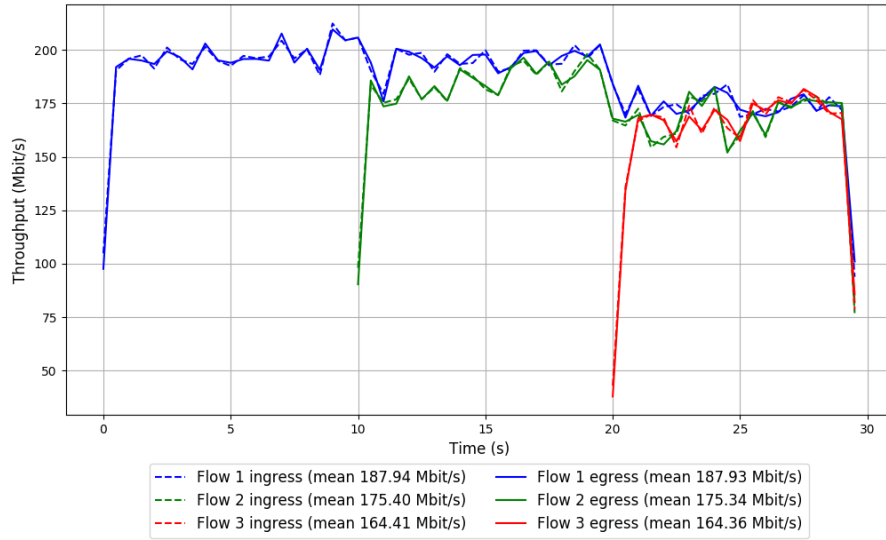


Run 3: Statistics of Indigo

Start at: 2017-12-20 09:21:12  
End at: 2017-12-20 09:21:42  
Local clock offset: 1.003 ms  
Remote clock offset: -1.002 ms

```
# Below is generated by plot.py at 2017-12-20 16:00:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 356.82 Mbit/s
95th percentile per-packet one-way delay: 19.570 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 187.93 Mbit/s
95th percentile per-packet one-way delay: 19.521 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 175.34 Mbit/s
95th percentile per-packet one-way delay: 19.526 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 164.36 Mbit/s
95th percentile per-packet one-way delay: 19.779 ms
Loss rate: 0.03%
```

### Run 3: Report of Indigo — Data Link

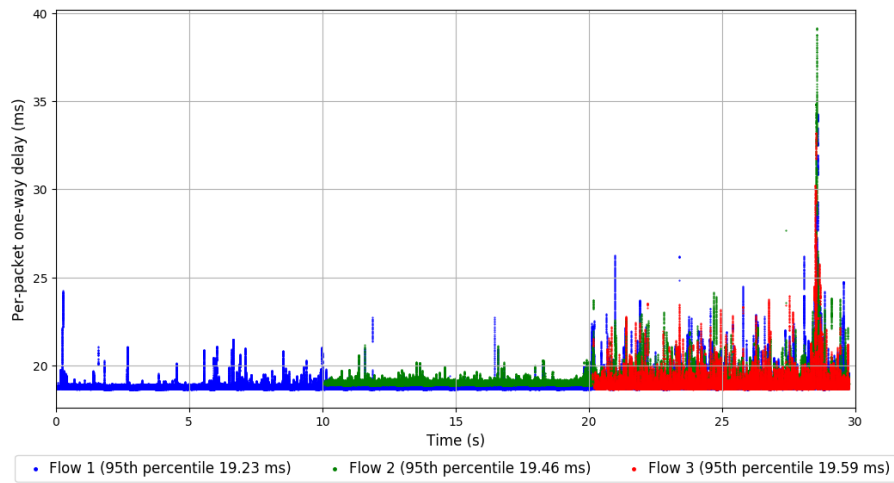
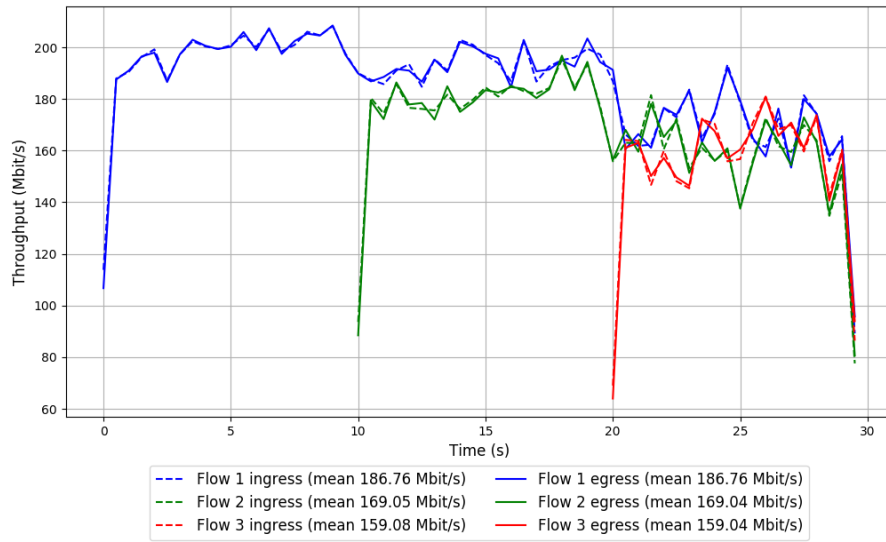


Run 4: Statistics of Indigo

Start at: 2017-12-20 09:43:00  
End at: 2017-12-20 09:43:30  
Local clock offset: 0.991 ms  
Remote clock offset: -0.997 ms

```
# Below is generated by plot.py at 2017-12-20 16:00:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 350.21 Mbit/s
95th percentile per-packet one-way delay: 19.381 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 186.76 Mbit/s
95th percentile per-packet one-way delay: 19.225 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 169.04 Mbit/s
95th percentile per-packet one-way delay: 19.458 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 159.04 Mbit/s
95th percentile per-packet one-way delay: 19.591 ms
Loss rate: 0.03%
```

### Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-12-20 10:04:44  
End at: 2017-12-20 10:05:14  
Local clock offset: 0.721 ms  
Remote clock offset: -1.094 ms

# Below is generated by plot.py at 2017-12-20 16:00:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 356.96 Mbit/s  
95th percentile per-packet one-way delay: 19.386 ms  
Loss rate: 0.00%

-- Flow 1:

Average throughput: 187.60 Mbit/s  
95th percentile per-packet one-way delay: 19.375 ms  
Loss rate: 0.01%

-- Flow 2:

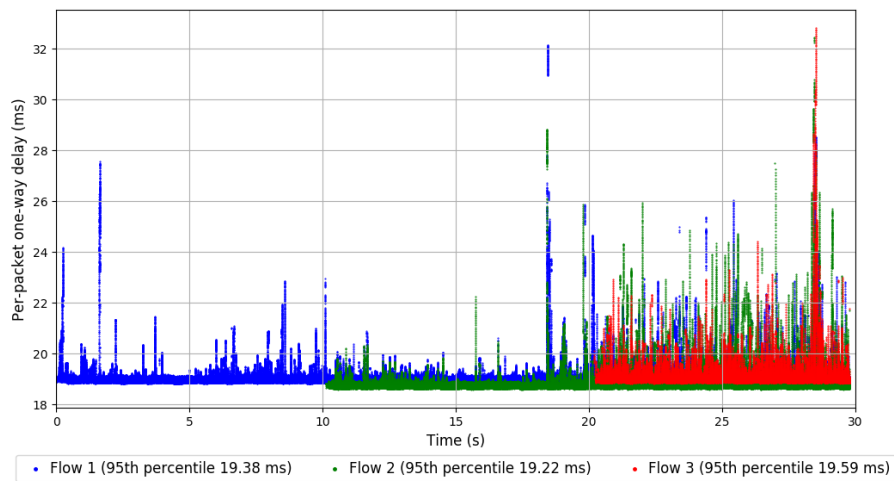
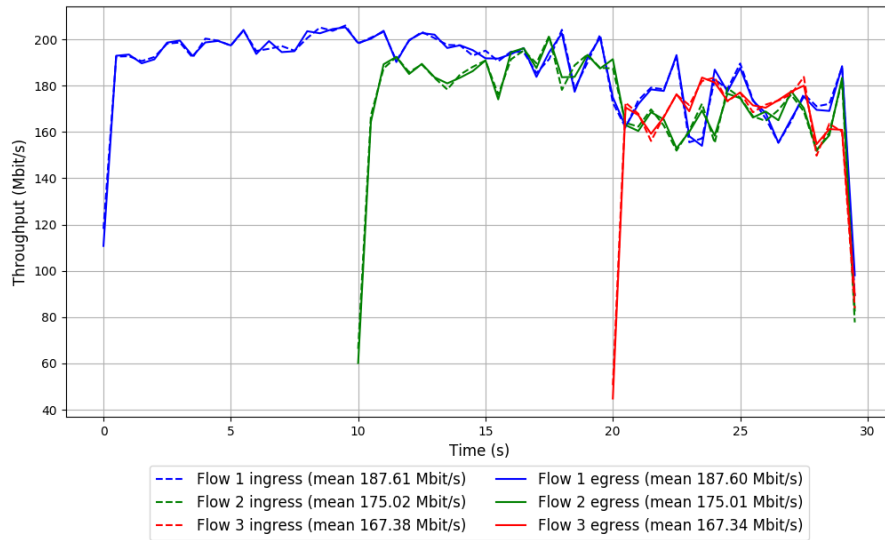
Average throughput: 175.01 Mbit/s  
95th percentile per-packet one-way delay: 19.218 ms  
Loss rate: 0.00%

-- Flow 3:

Average throughput: 167.34 Mbit/s  
95th percentile per-packet one-way delay: 19.588 ms  
Loss rate: 0.01%



### Run 5: Report of Indigo — Data Link

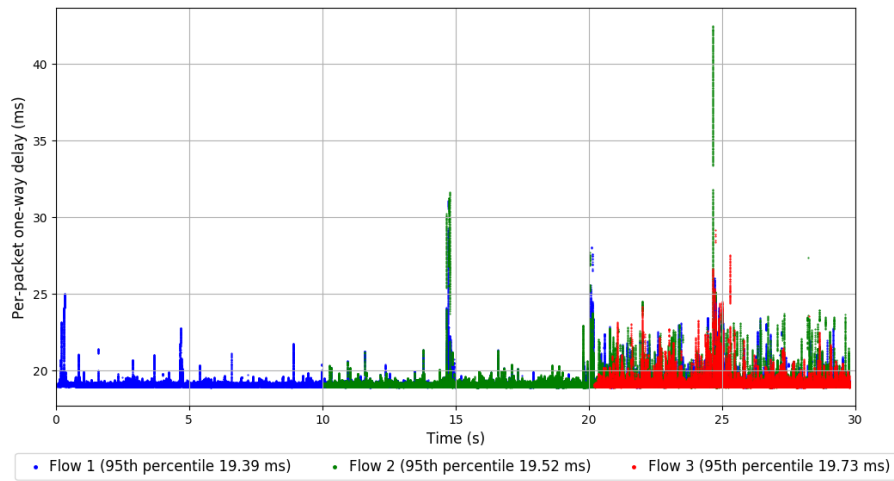
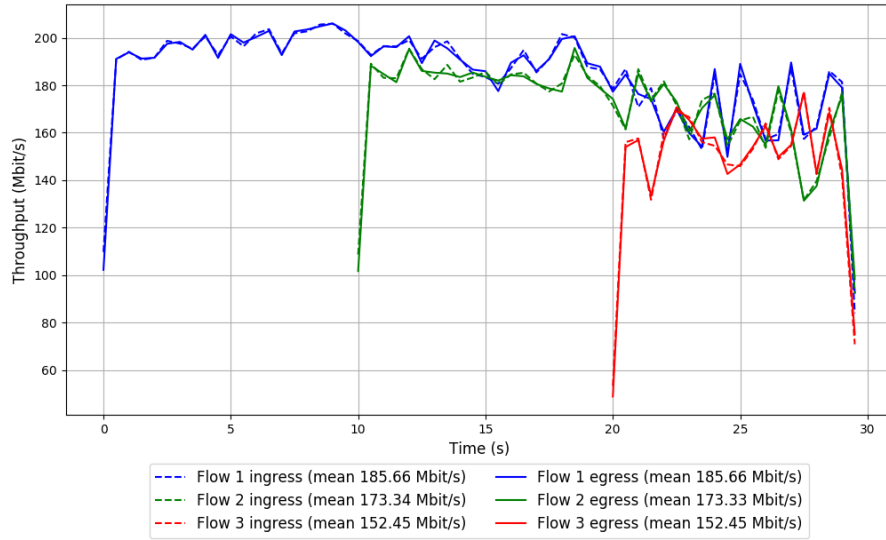


Run 6: Statistics of Indigo

Start at: 2017-12-20 10:26:38  
End at: 2017-12-20 10:27:08  
Local clock offset: 0.306 ms  
Remote clock offset: -1.345 ms

```
# Below is generated by plot.py at 2017-12-20 16:00:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 349.72 Mbit/s
95th percentile per-packet one-way delay: 19.481 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 185.66 Mbit/s
95th percentile per-packet one-way delay: 19.393 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 173.33 Mbit/s
95th percentile per-packet one-way delay: 19.521 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 152.45 Mbit/s
95th percentile per-packet one-way delay: 19.725 ms
Loss rate: 0.00%
```

## Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-12-20 10:48:19  
End at: 2017-12-20 10:48:49  
Local clock offset: 0.112 ms  
Remote clock offset: -1.041 ms

# Below is generated by plot.py at 2017-12-20 16:00:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 358.74 Mbit/s  
95th percentile per-packet one-way delay: 19.632 ms  
Loss rate: 0.04%

-- Flow 1:

Average throughput: 188.21 Mbit/s  
95th percentile per-packet one-way delay: 19.519 ms  
Loss rate: 0.02%

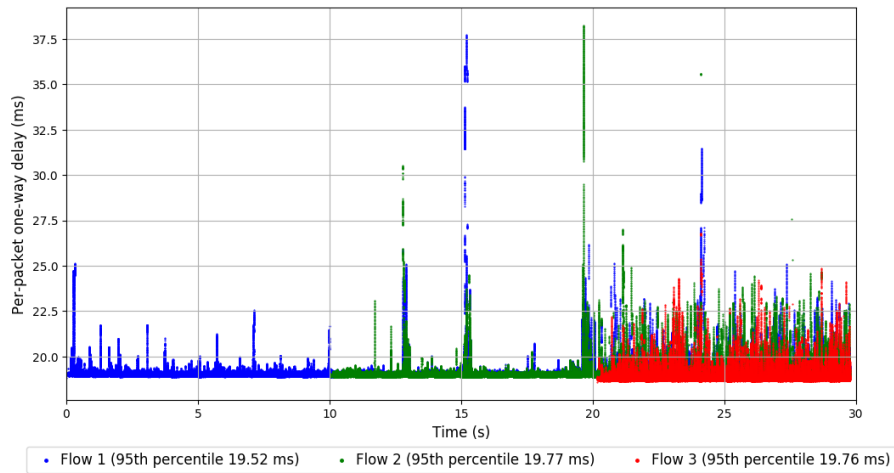
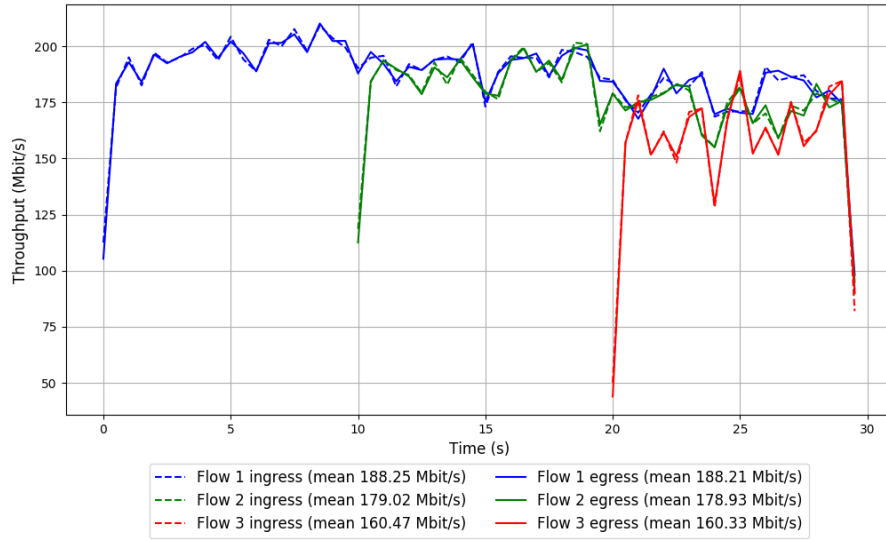
-- Flow 2:

Average throughput: 178.93 Mbit/s  
95th percentile per-packet one-way delay: 19.767 ms  
Loss rate: 0.05%

-- Flow 3:

Average throughput: 160.33 Mbit/s  
95th percentile per-packet one-way delay: 19.760 ms  
Loss rate: 0.08%

### Run 7: Report of Indigo — Data Link

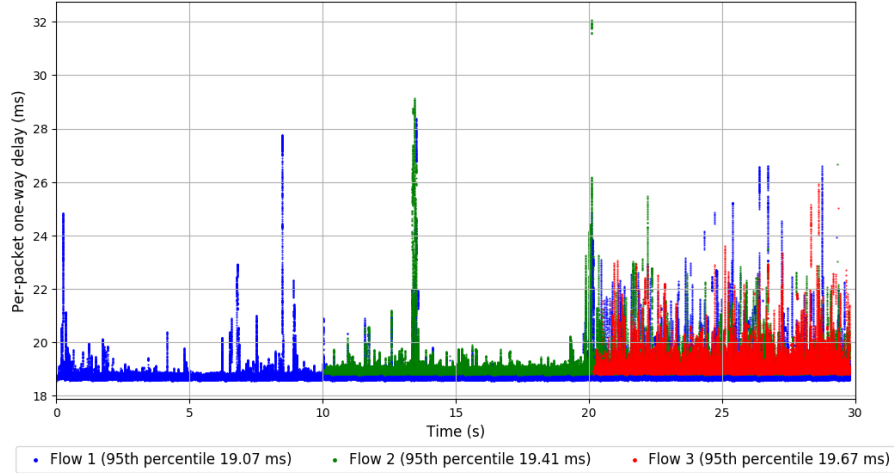
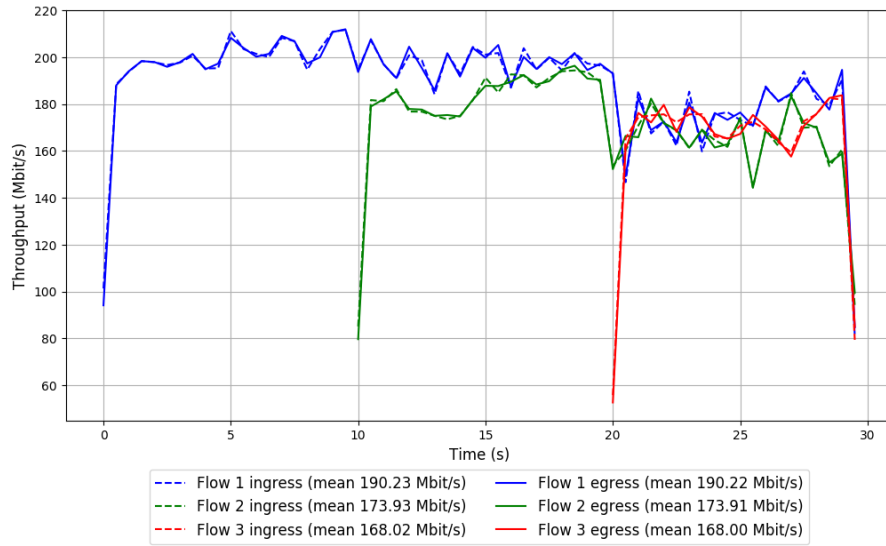


Run 8: Statistics of Indigo

Start at: 2017-12-20 11:10:24  
End at: 2017-12-20 11:10:54  
Local clock offset: 0.034 ms  
Remote clock offset: -1.224 ms

```
# Below is generated by plot.py at 2017-12-20 16:00:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 359.58 Mbit/s
95th percentile per-packet one-way delay: 19.338 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 190.22 Mbit/s
95th percentile per-packet one-way delay: 19.074 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 173.91 Mbit/s
95th percentile per-packet one-way delay: 19.412 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 168.00 Mbit/s
95th percentile per-packet one-way delay: 19.672 ms
Loss rate: 0.01%
```

### Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-12-20 11:31:57

End at: 2017-12-20 11:32:27

Local clock offset: -0.155 ms

Remote clock offset: -1.51 ms

# Below is generated by plot.py at 2017-12-20 16:00:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 359.04 Mbit/s

95th percentile per-packet one-way delay: 19.775 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 187.90 Mbit/s

95th percentile per-packet one-way delay: 19.740 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 177.76 Mbit/s

95th percentile per-packet one-way delay: 19.870 ms

Loss rate: 0.01%

-- Flow 3:

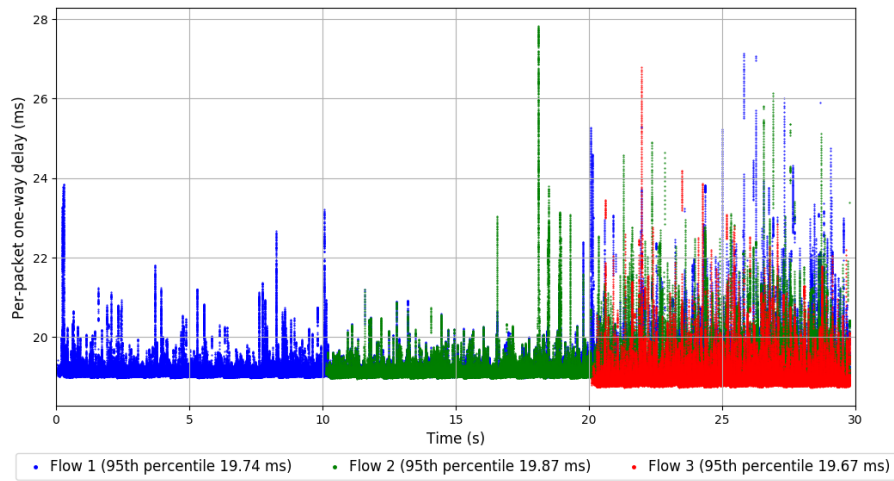
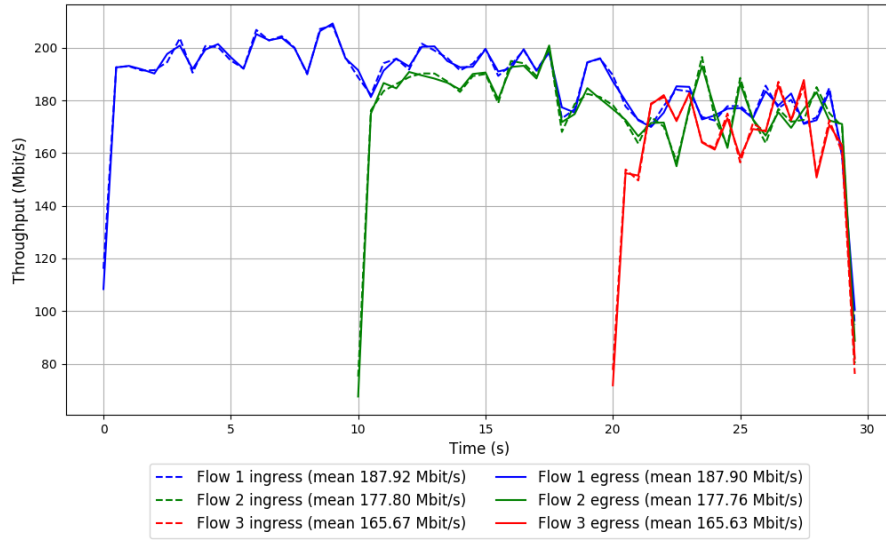
Average throughput: 165.63 Mbit/s

95th percentile per-packet one-way delay: 19.671 ms

Loss rate: 0.02%



### Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-12-20 11:54:05  
End at: 2017-12-20 11:54:35  
Local clock offset: -0.185 ms  
Remote clock offset: -2.014 ms

# Below is generated by plot.py at 2017-12-20 16:00:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 359.92 Mbit/s  
95th percentile per-packet one-way delay: 19.439 ms  
Loss rate: 0.01%

-- Flow 1:

Average throughput: 188.36 Mbit/s  
95th percentile per-packet one-way delay: 19.380 ms  
Loss rate: 0.01%

-- Flow 2:

Average throughput: 178.44 Mbit/s  
95th percentile per-packet one-way delay: 19.286 ms  
Loss rate: 0.02%

-- Flow 3:

Average throughput: 165.44 Mbit/s  
95th percentile per-packet one-way delay: 19.749 ms  
Loss rate: 0.02%

### Run 10: Report of Indigo — Data Link

