

## Pantheon Report

Generated at 2018-01-02 18:35:56 (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).

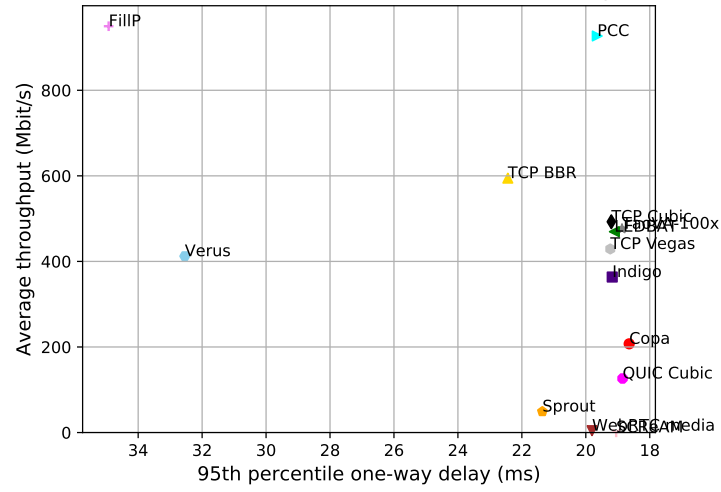
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo\_fast**).

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

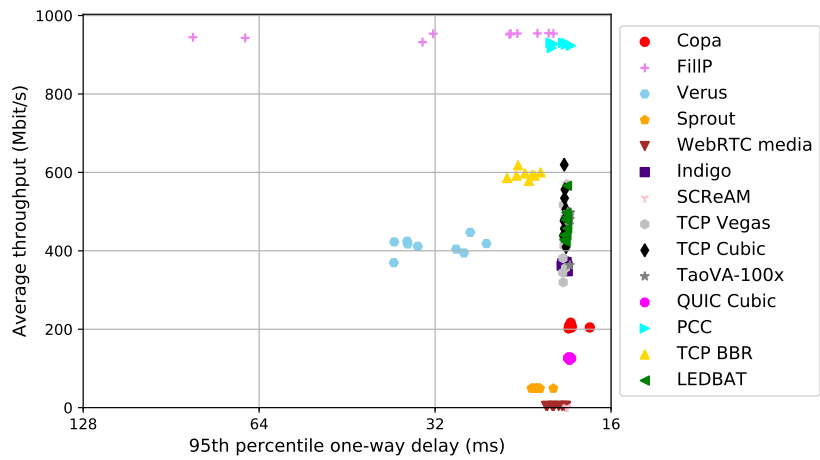
Git summary:

```
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 @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from 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	8	312.64	280.72	238.88	23.03	21.37	20.42	16.91	20.42	23.95
TCP Cubic	10	304.47	183.45	199.02	18.96	18.95	18.85	0.10	0.09	0.12
LEDBAT	10	265.71	232.42	147.97	18.92	19.16	19.16	0.02	0.03	0.03
PCC	10	814.86	131.27	75.56	19.49	19.84	19.84	0.45	0.28	0.46
QUIC Cubic	10	69.10	59.92	53.30	18.56	18.58	19.67	0.00	0.00	0.00
SCReAM	6	0.22	0.22	0.22	18.36	19.06	18.59	0.00	0.00	0.00
WebRTC media	10	2.31	1.46	0.56	19.55	19.85	20.13	0.00	0.00	0.02
Sprout	10	24.73	24.65	24.31	21.19	21.25	20.90	0.02	0.03	0.03
TaoVA-100x	10	244.91	250.52	249.51	18.71	18.48	18.84	0.04	0.01	0.01
TCP Vegas	10	250.14	178.59	180.77	18.83	19.32	18.92	0.03	0.07	0.08
Verus	9	195.08	214.47	188.58	40.12	25.26	24.96	18.27	16.50	15.76
Copa	10	104.82	106.78	120.10	18.64	18.37	18.36	0.00	0.00	0.00
FillP	10	588.25	382.07	323.27	40.74	20.86	19.90	8.88	14.59	15.19
Indigo	10	190.58	180.35	165.45	18.87	19.03	19.34	0.02	0.02	0.05

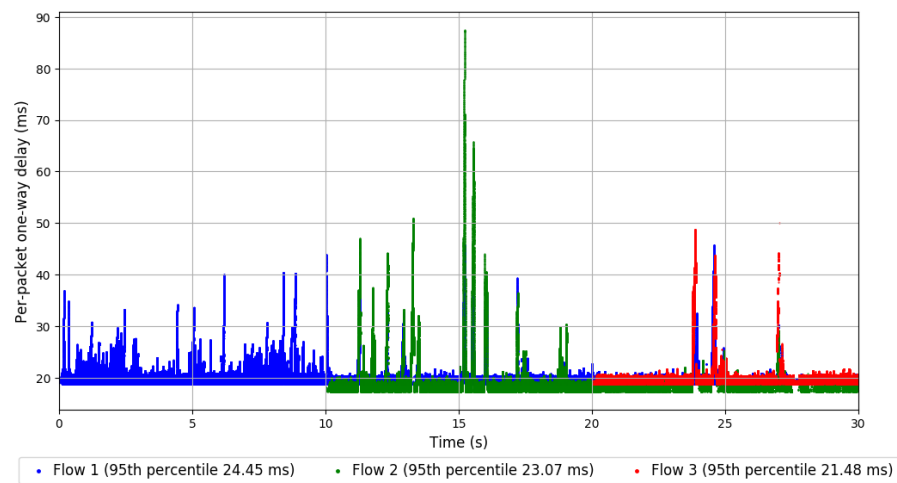
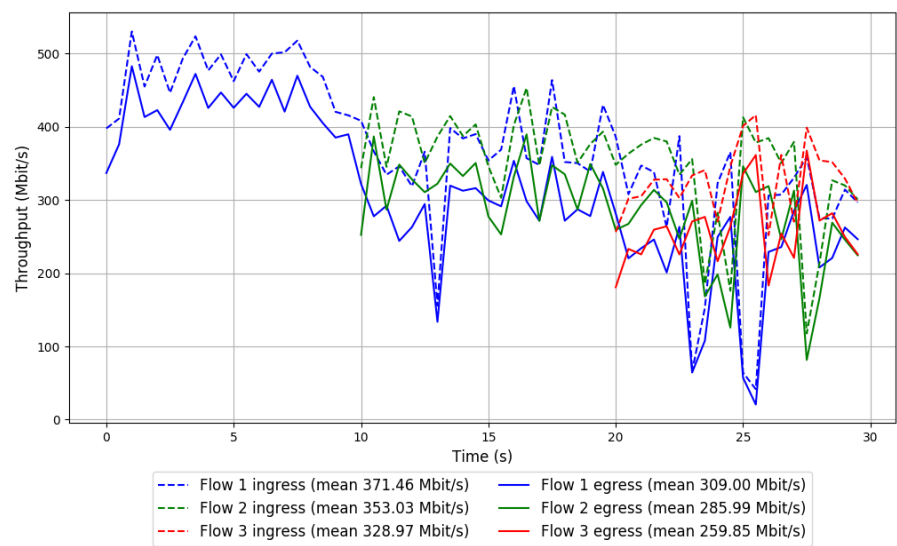
Run 1: Statistics of TCP BBR

Start at: 2018-01-02 11:11:05  
End at: 2018-01-02 11:11:35  
Local clock offset: 1.293 ms  
Remote clock offset: -1.404 ms

# Below is generated by plot.py at 2018-01-02 16:55:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 585.69 Mbit/s  
95th percentile per-packet one-way delay: 24.089 ms  
Loss rate: 18.17%  
-- Flow 1:  
Average throughput: 309.00 Mbit/s  
95th percentile per-packet one-way delay: 24.448 ms  
Loss rate: 16.81%  
-- Flow 2:  
Average throughput: 285.99 Mbit/s  
95th percentile per-packet one-way delay: 23.072 ms  
Loss rate: 18.99%  
-- Flow 3:  
Average throughput: 259.85 Mbit/s  
95th percentile per-packet one-way delay: 21.480 ms  
Loss rate: 21.02%



Run 1: Report of TCP BBR — Data Link

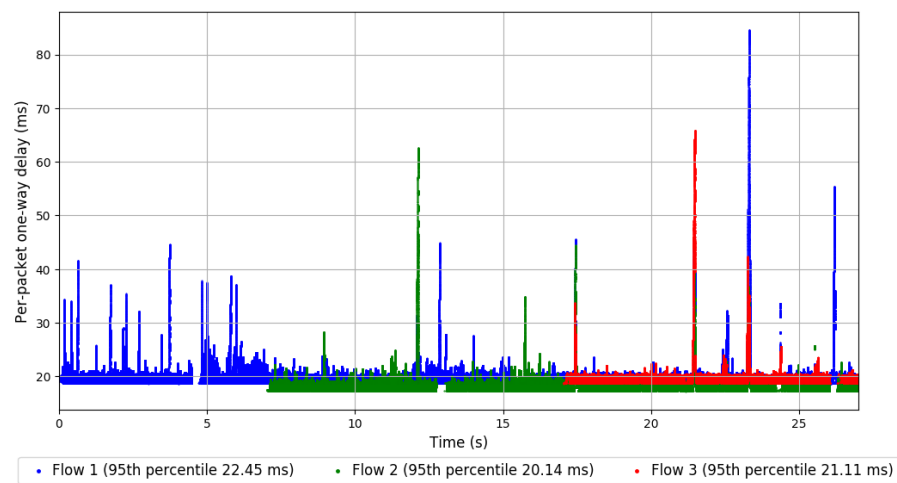
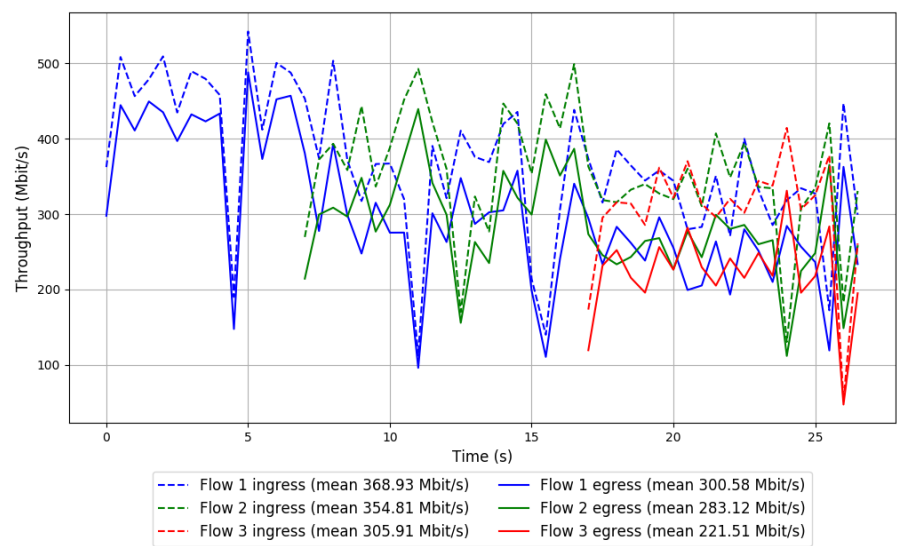


Run 2: Statistics of TCP BBR

Start at: 2018-01-02 11:33:27  
End at: 2018-01-02 11:33:57  
Local clock offset: 1.456 ms  
Remote clock offset: -1.416 ms

# Below is generated by plot.py at 2018-01-02 16:55:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 591.80 Mbit/s  
95th percentile per-packet one-way delay: 21.628 ms  
Loss rate: 20.49%  
-- Flow 1:  
Average throughput: 300.58 Mbit/s  
95th percentile per-packet one-way delay: 22.446 ms  
Loss rate: 18.53%  
-- Flow 2:  
Average throughput: 283.12 Mbit/s  
95th percentile per-packet one-way delay: 20.135 ms  
Loss rate: 20.20%  
-- Flow 3:  
Average throughput: 221.51 Mbit/s  
95th percentile per-packet one-way delay: 21.109 ms  
Loss rate: 27.58%

Run 2: Report of TCP BBR — Data Link

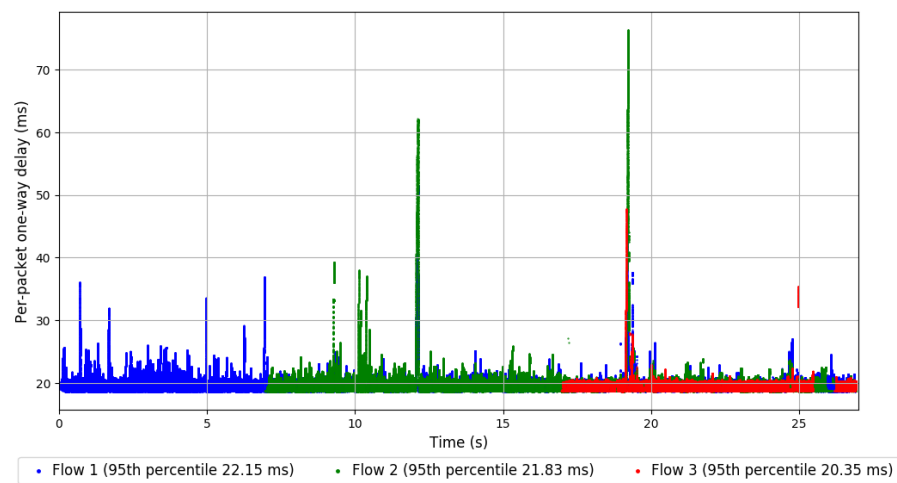
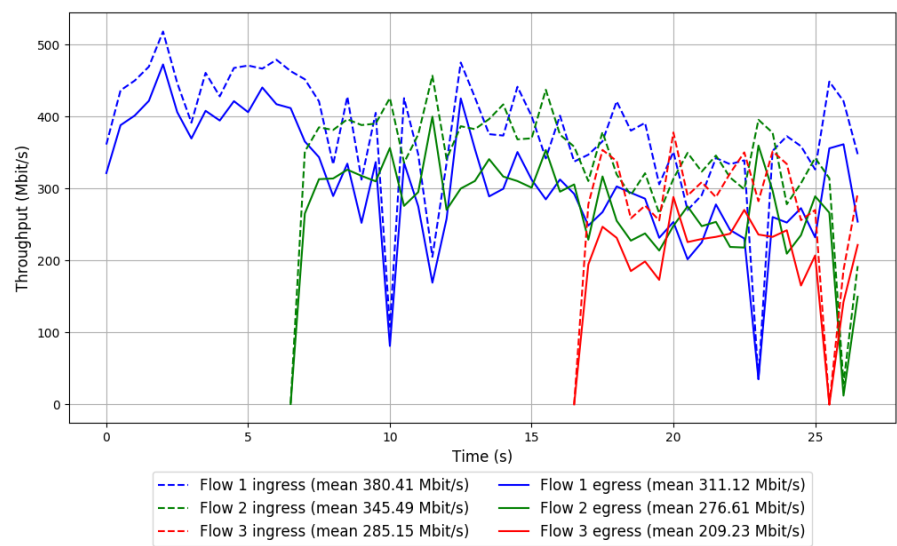


Run 3: Statistics of TCP BBR

Start at: 2018-01-02 11:55:34  
End at: 2018-01-02 11:56:04  
Local clock offset: 1.536 ms  
Remote clock offset: -1.413 ms

# Below is generated by plot.py at 2018-01-02 16:55:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 593.78 Mbit/s  
95th percentile per-packet one-way delay: 21.827 ms  
Loss rate: 20.00%  
-- Flow 1:  
Average throughput: 311.12 Mbit/s  
95th percentile per-packet one-way delay: 22.152 ms  
Loss rate: 18.22%  
-- Flow 2:  
Average throughput: 276.61 Mbit/s  
95th percentile per-packet one-way delay: 21.829 ms  
Loss rate: 19.94%  
-- Flow 3:  
Average throughput: 209.23 Mbit/s  
95th percentile per-packet one-way delay: 20.351 ms  
Loss rate: 26.62%

Run 3: Report of TCP BBR — Data Link

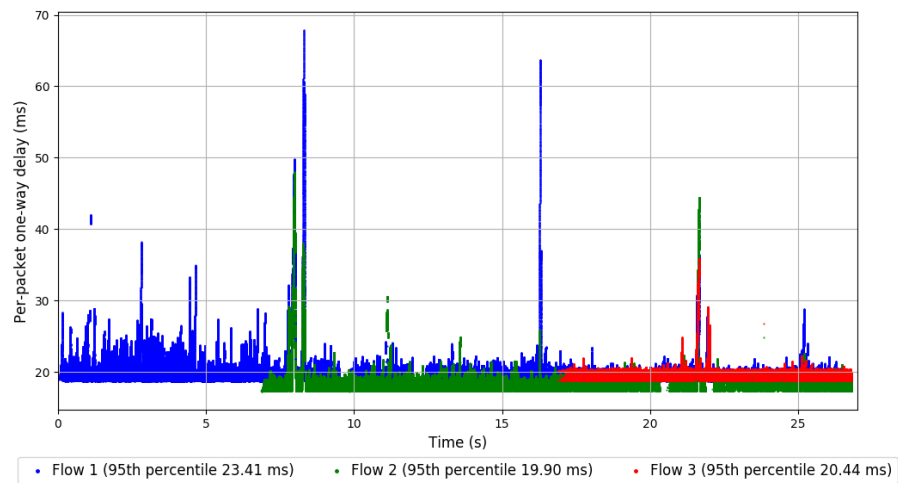
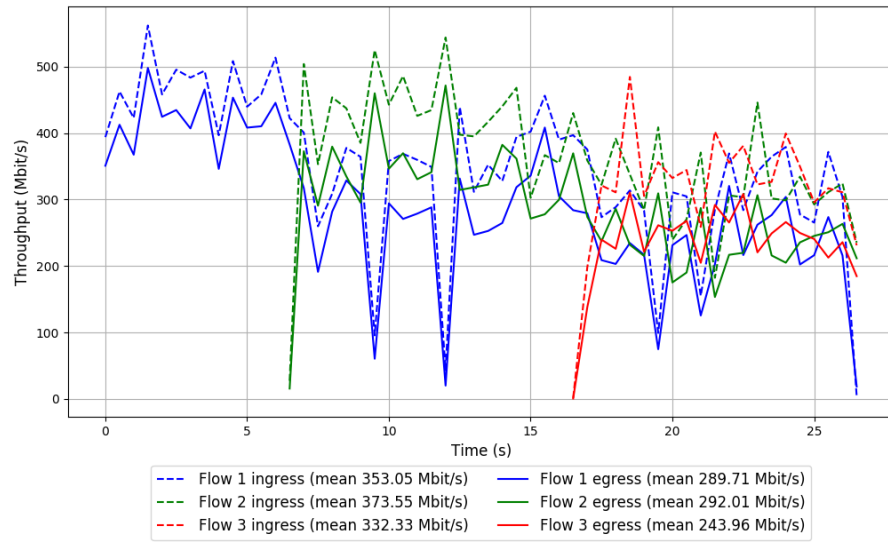


Run 4: Statistics of TCP BBR

Start at: 2018-01-02 12:17:46  
End at: 2018-01-02 12:18:16  
Local clock offset: 1.568 ms  
Remote clock offset: -1.475 ms

# Below is generated by plot.py at 2018-01-02 16:55:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 597.72 Mbit/s  
95th percentile per-packet one-way delay: 22.443 ms  
Loss rate: 20.79%  
-- Flow 1:  
Average throughput: 289.71 Mbit/s  
95th percentile per-packet one-way delay: 23.410 ms  
Loss rate: 17.94%  
-- Flow 2:  
Average throughput: 292.01 Mbit/s  
95th percentile per-packet one-way delay: 19.896 ms  
Loss rate: 21.83%  
-- Flow 3:  
Average throughput: 243.96 Mbit/s  
95th percentile per-packet one-way delay: 20.443 ms  
Loss rate: 26.59%

# Run 4: Report of TCP BBR — Data Link



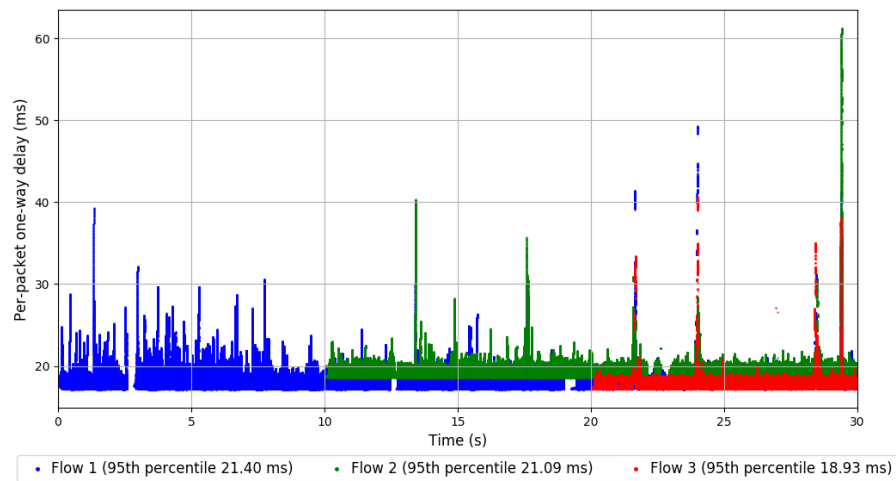
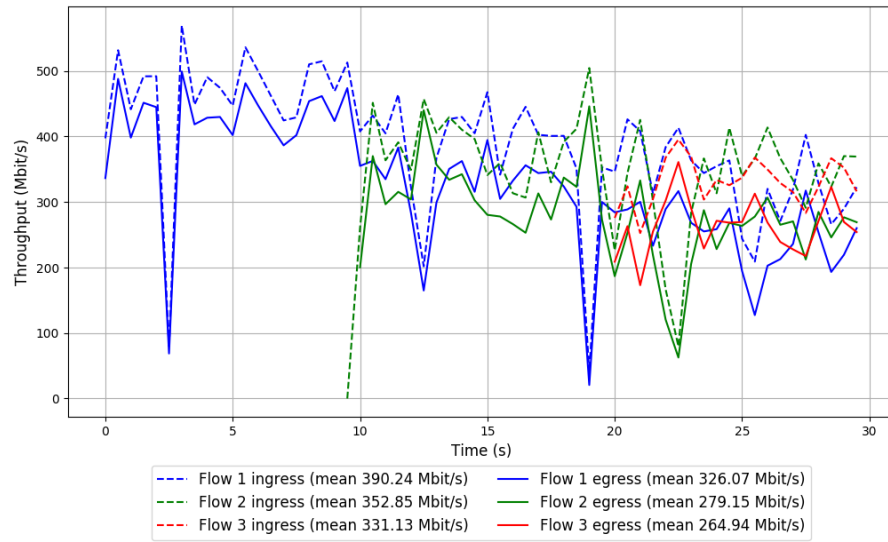
Run 5: Statistics of TCP BBR

Start at: 2018-01-02 12:40:07  
End at: 2018-01-02 12:40:37  
Local clock offset: 1.565 ms  
Remote clock offset: -1.413 ms

# Below is generated by plot.py at 2018-01-02 16:55:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 600.03 Mbit/s  
95th percentile per-packet one-way delay: 21.114 ms  
Loss rate: 18.39%  
-- Flow 1:  
Average throughput: 326.07 Mbit/s  
95th percentile per-packet one-way delay: 21.401 ms  
Loss rate: 16.44%  
-- Flow 2:  
Average throughput: 279.15 Mbit/s  
95th percentile per-packet one-way delay: 21.093 ms  
Loss rate: 20.89%  
-- Flow 3:  
Average throughput: 264.94 Mbit/s  
95th percentile per-packet one-way delay: 18.930 ms  
Loss rate: 19.99%



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



Run 6: Statistics of TCP BBR

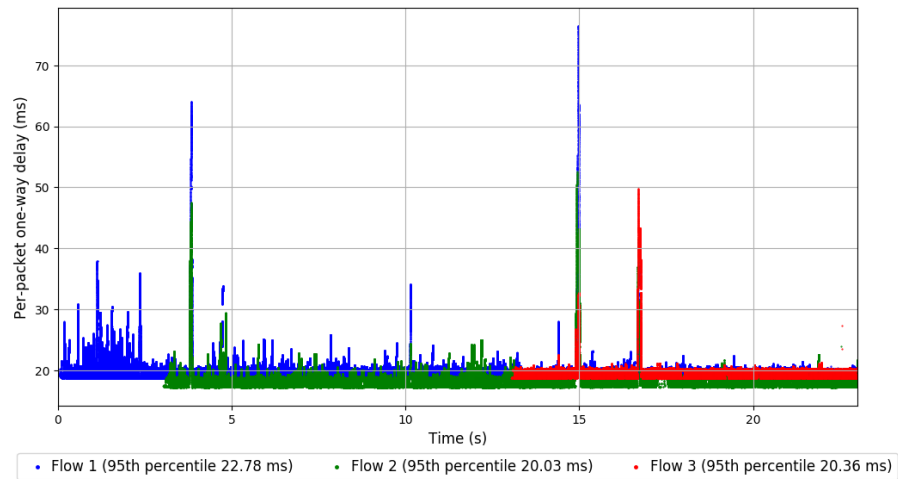
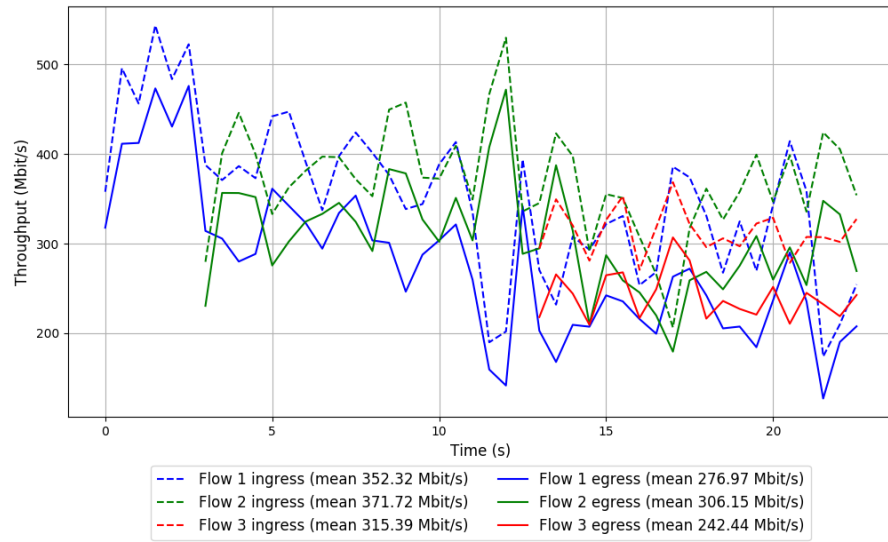
Start at: 2018-01-02 13:02:23

End at: 2018-01-02 13:02:53

Local clock offset: 1.493 ms

Remote clock offset: -1.298 ms

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

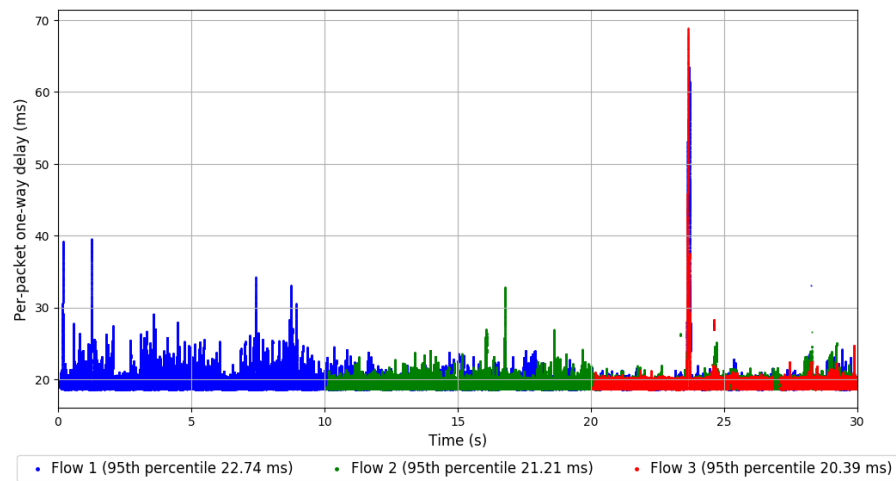
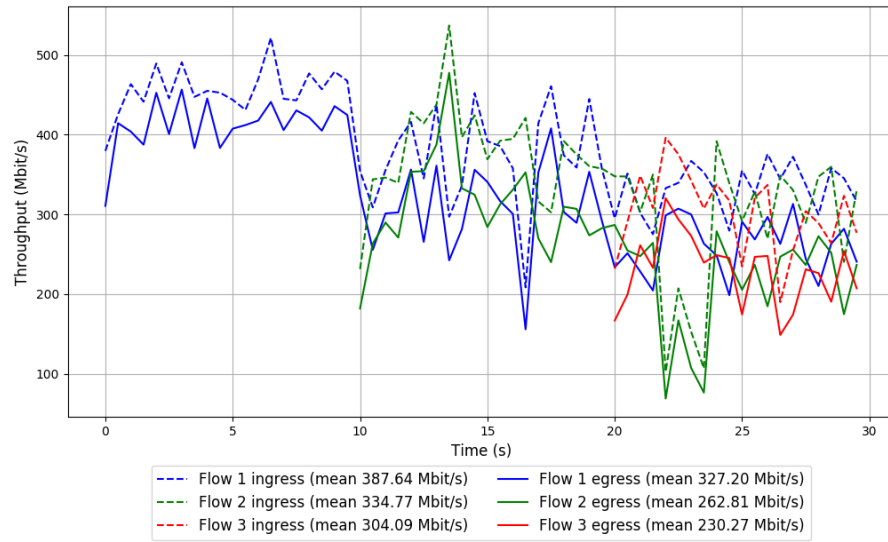


Run 7: Statistics of TCP BBR

Start at: 2018-01-02 13:24:13  
End at: 2018-01-02 13:24:43  
Local clock offset: 1.64 ms  
Remote clock offset: -1.482 ms

# Below is generated by plot.py at 2018-01-02 16:55:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 578.51 Mbit/s  
95th percentile per-packet one-way delay: 22.110 ms  
Loss rate: 18.67%  
-- Flow 1:  
Average throughput: 327.20 Mbit/s  
95th percentile per-packet one-way delay: 22.738 ms  
Loss rate: 15.59%  
-- Flow 2:  
Average throughput: 262.81 Mbit/s  
95th percentile per-packet one-way delay: 21.212 ms  
Loss rate: 21.49%  
-- Flow 3:  
Average throughput: 230.27 Mbit/s  
95th percentile per-packet one-way delay: 20.386 ms  
Loss rate: 24.26%

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

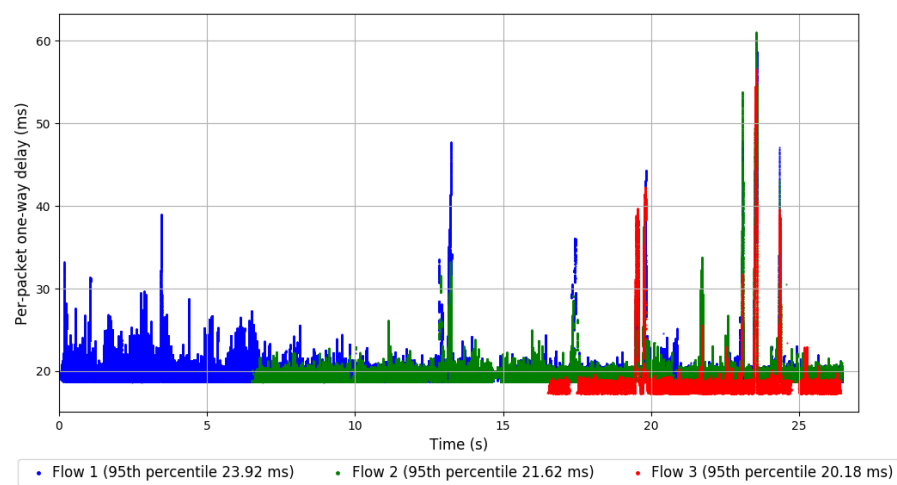
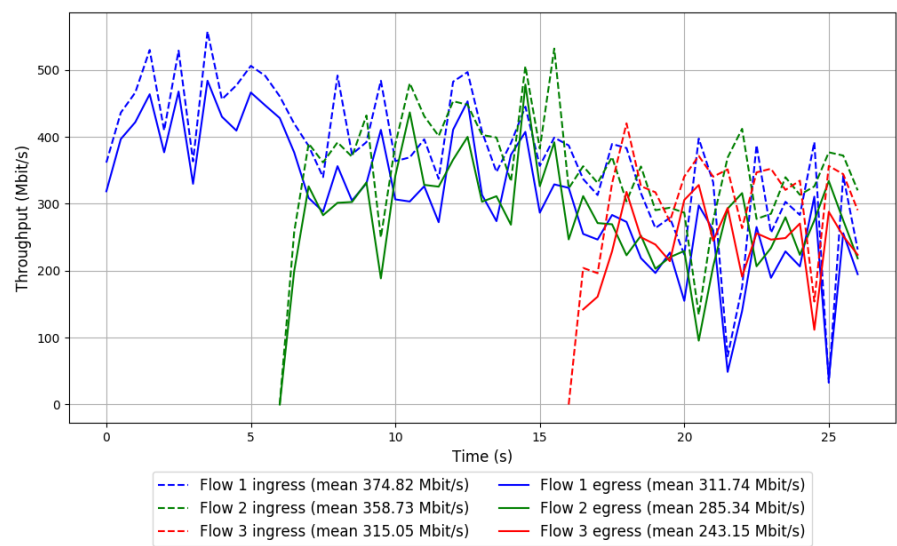


Run 8: Statistics of TCP BBR

Start at: 2018-01-02 13:46:24  
End at: 2018-01-02 13:46:54  
Local clock offset: 1.469 ms  
Remote clock offset: -1.564 ms

# Below is generated by plot.py at 2018-01-02 16:55:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 618.18 Mbit/s  
95th percentile per-packet one-way delay: 23.076 ms  
Loss rate: 19.04%  
-- Flow 1:  
Average throughput: 311.74 Mbit/s  
95th percentile per-packet one-way delay: 23.922 ms  
Loss rate: 16.83%  
-- Flow 2:  
Average throughput: 285.34 Mbit/s  
95th percentile per-packet one-way delay: 21.622 ms  
Loss rate: 20.45%  
-- Flow 3:  
Average throughput: 243.15 Mbit/s  
95th percentile per-packet one-way delay: 20.177 ms  
Loss rate: 22.81%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-02 14:08:20

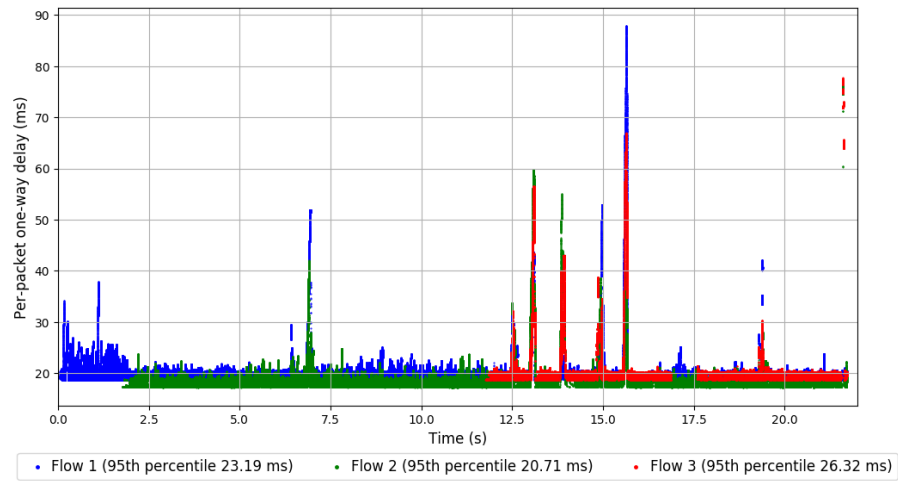
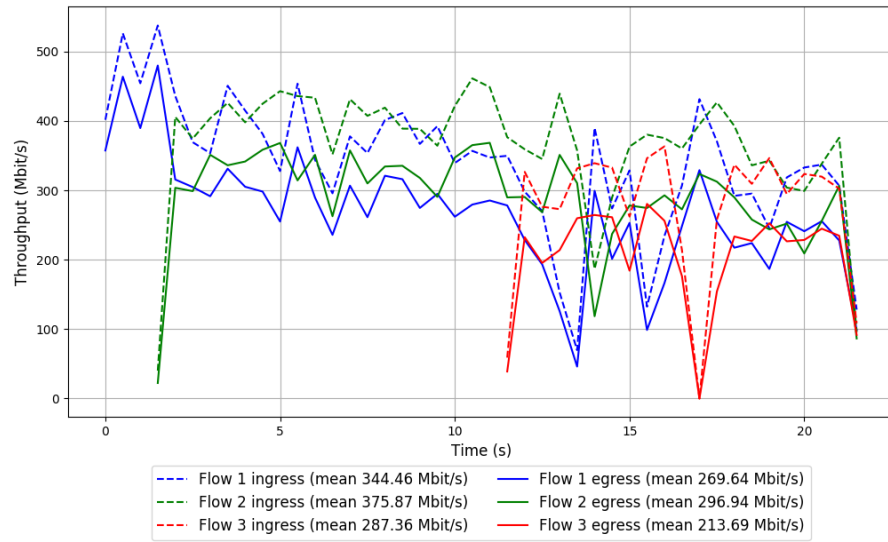
End at: 2018-01-02 14:08:50

Local clock offset: 1.44 ms

Remote clock offset: -1.581 ms



# Run 9: Report of TCP BBR — Data Link

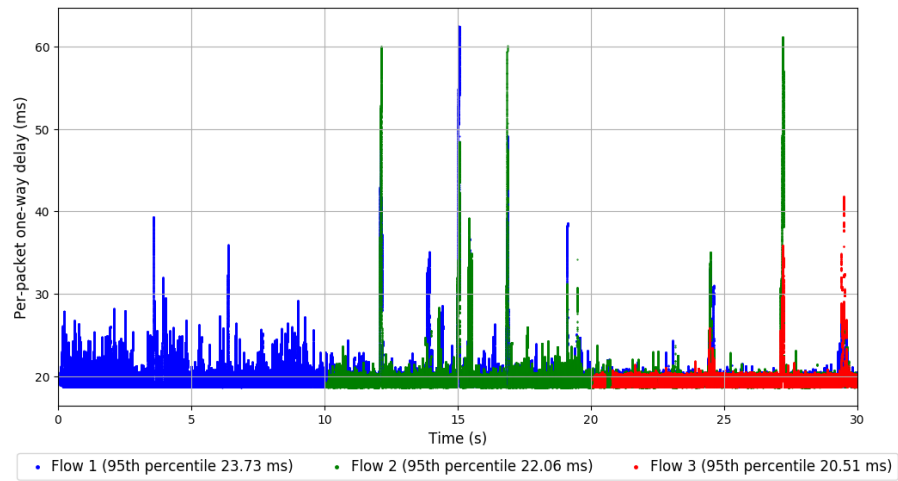
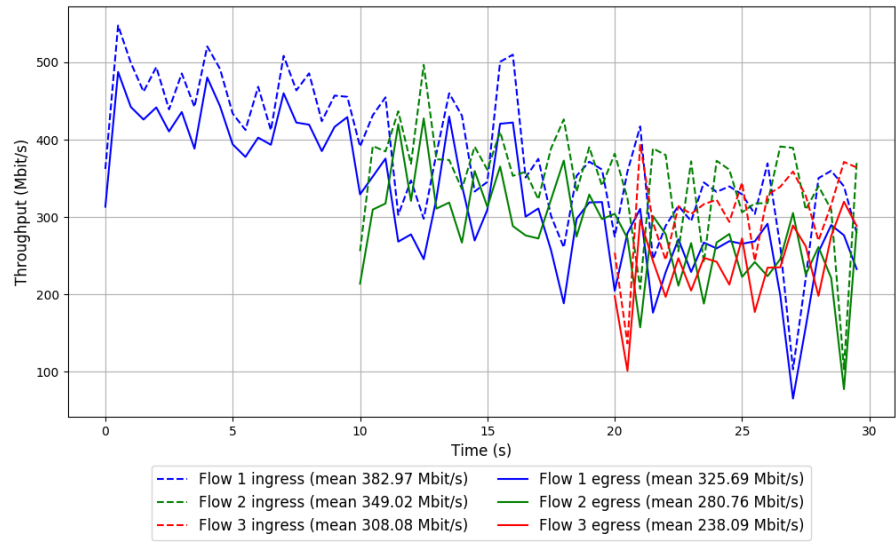


Run 10: Statistics of TCP BBR

Start at: 2018-01-02 14:30:35  
End at: 2018-01-02 14:31:05  
Local clock offset: 1.462 ms  
Remote clock offset: -1.411 ms

# Below is generated by plot.py at 2018-01-02 17:03:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 591.78 Mbit/s  
95th percentile per-packet one-way delay: 23.225 ms  
Loss rate: 17.55%  
-- Flow 1:  
Average throughput: 325.69 Mbit/s  
95th percentile per-packet one-way delay: 23.732 ms  
Loss rate: 14.95%  
-- Flow 2:  
Average throughput: 280.76 Mbit/s  
95th percentile per-packet one-way delay: 22.062 ms  
Loss rate: 19.55%  
-- Flow 3:  
Average throughput: 238.09 Mbit/s  
95th percentile per-packet one-way delay: 20.508 ms  
Loss rate: 22.72%

# Run 10: Report of TCP BBR — Data Link

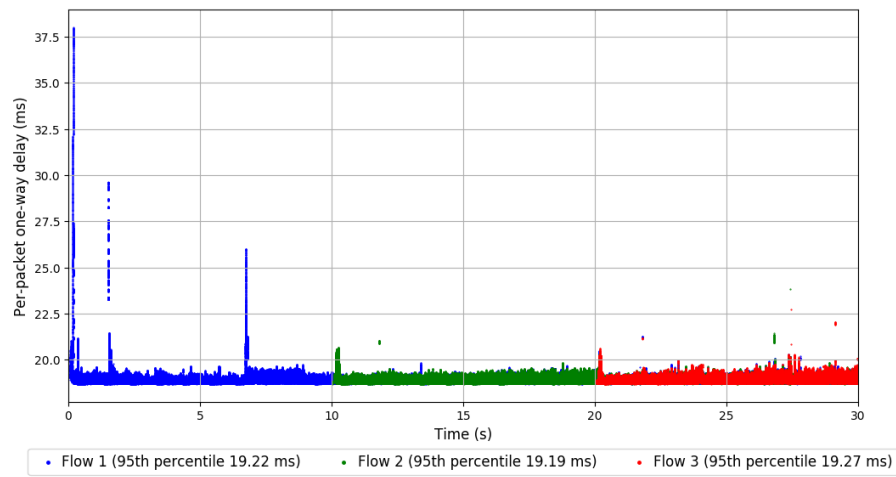
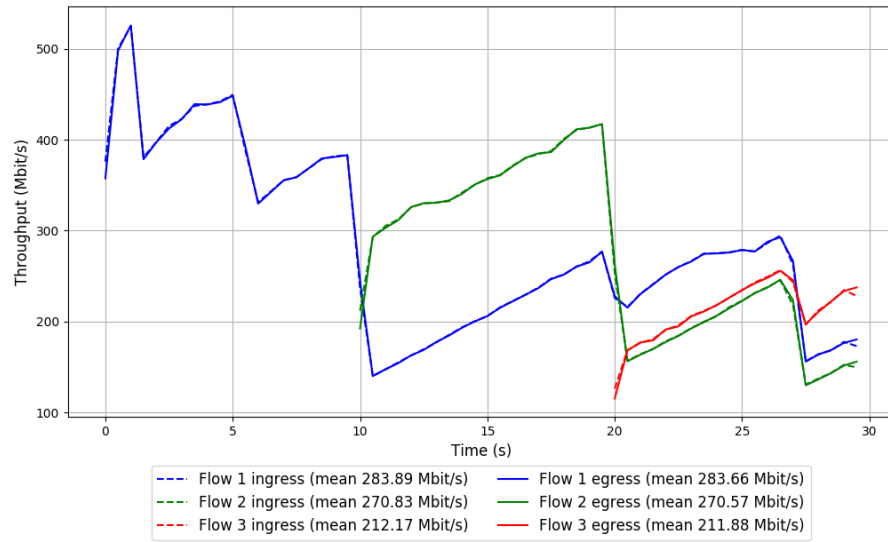


Run 1: Statistics of TCP Cubic

Start at: 2018-01-02 11:08:03  
End at: 2018-01-02 11:08:33  
Local clock offset: 1.288 ms  
Remote clock offset: -1.394 ms

# Below is generated by plot.py at 2018-01-02 17:03:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 534.20 Mbit/s  
95th percentile per-packet one-way delay: 19.218 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 283.66 Mbit/s  
95th percentile per-packet one-way delay: 19.220 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 270.57 Mbit/s  
95th percentile per-packet one-way delay: 19.189 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 211.88 Mbit/s  
95th percentile per-packet one-way delay: 19.273 ms  
Loss rate: 0.14%

# Run 1: Report of TCP Cubic — Data Link

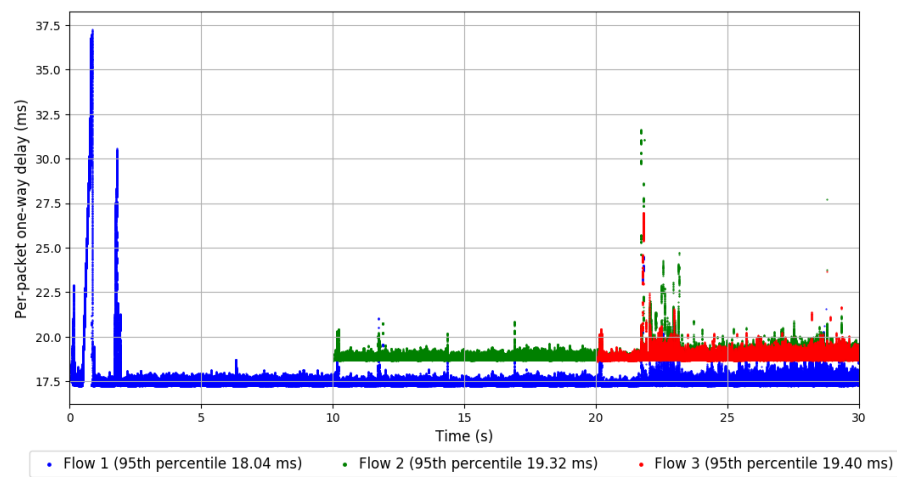
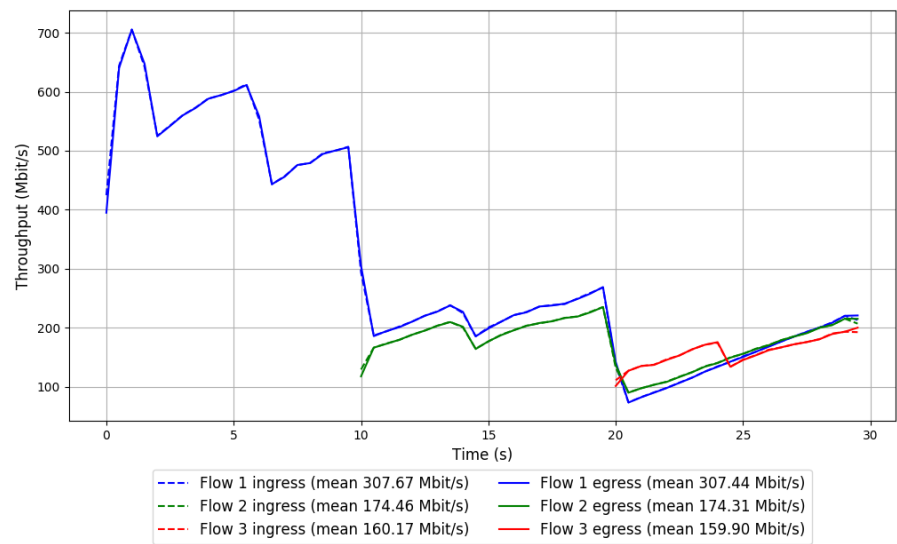


Run 2: Statistics of TCP Cubic

Start at: 2018-01-02 11:30:30  
End at: 2018-01-02 11:31:00  
Local clock offset: 1.36 ms  
Remote clock offset: -1.537 ms

# Below is generated by plot.py at 2018-01-02 17:03:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 476.59 Mbit/s  
95th percentile per-packet one-way delay: 19.259 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 307.44 Mbit/s  
95th percentile per-packet one-way delay: 18.035 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 174.31 Mbit/s  
95th percentile per-packet one-way delay: 19.322 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 159.90 Mbit/s  
95th percentile per-packet one-way delay: 19.399 ms  
Loss rate: 0.16%

Run 2: Report of TCP Cubic — Data Link



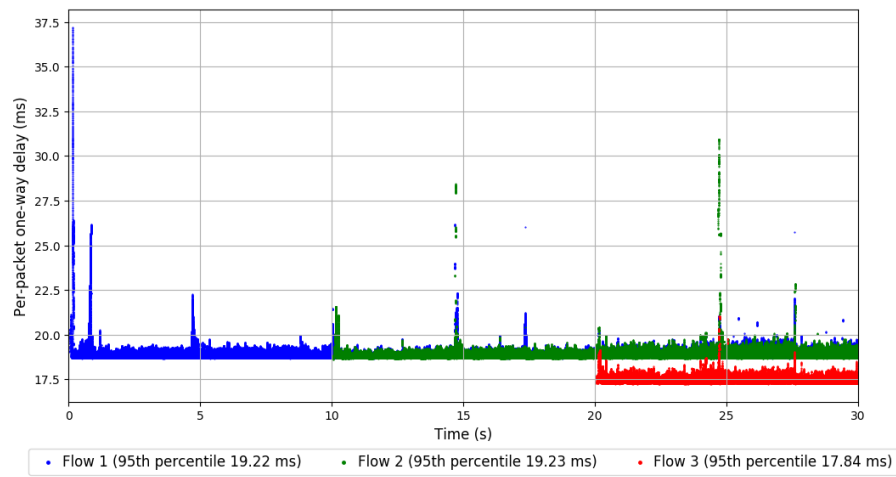
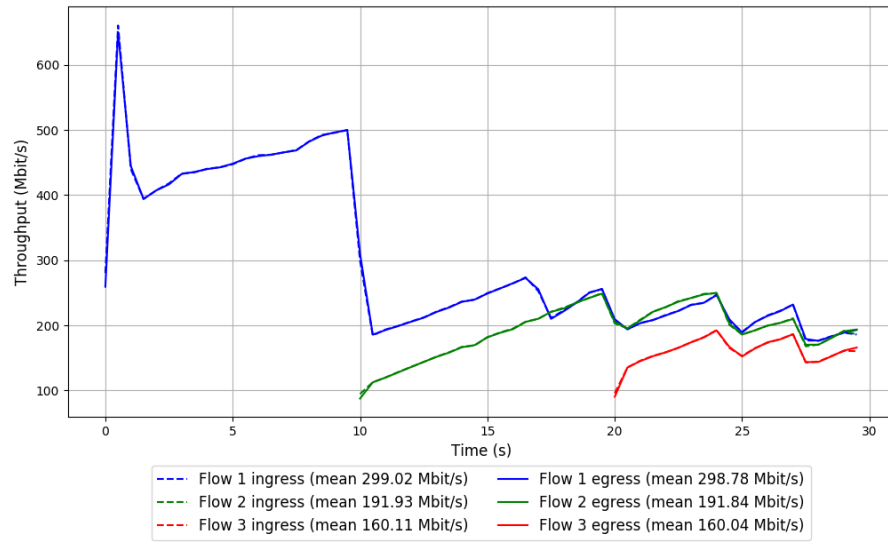
Run 3: Statistics of TCP Cubic

Start at: 2018-01-02 11:52:37  
End at: 2018-01-02 11:53:07  
Local clock offset: 1.44 ms  
Remote clock offset: -1.438 ms

# Below is generated by plot.py at 2018-01-02 17:03:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 479.69 Mbit/s  
95th percentile per-packet one-way delay: 19.207 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 298.78 Mbit/s  
95th percentile per-packet one-way delay: 19.223 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 191.84 Mbit/s  
95th percentile per-packet one-way delay: 19.227 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 160.04 Mbit/s  
95th percentile per-packet one-way delay: 17.841 ms  
Loss rate: 0.03%



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

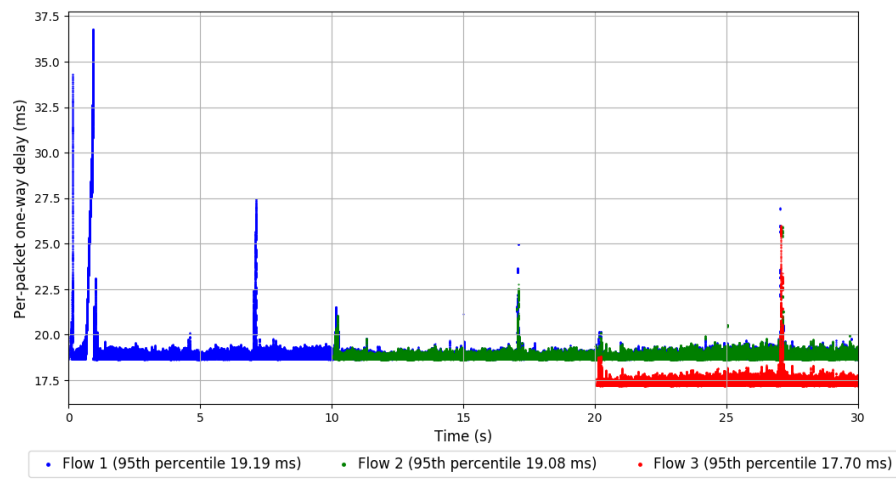
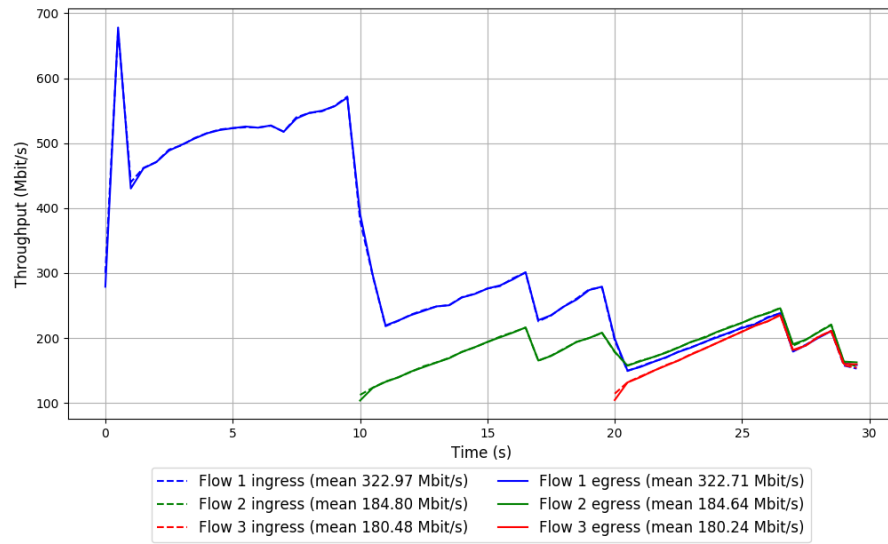


Run 4: Statistics of TCP Cubic

Start at: 2018-01-02 12:14:48  
End at: 2018-01-02 12:15:18  
Local clock offset: 1.621 ms  
Remote clock offset: -1.522 ms

# Below is generated by plot.py at 2018-01-02 17:03:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 505.52 Mbit/s  
95th percentile per-packet one-way delay: 19.128 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 322.71 Mbit/s  
95th percentile per-packet one-way delay: 19.189 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 184.64 Mbit/s  
95th percentile per-packet one-way delay: 19.080 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 180.24 Mbit/s  
95th percentile per-packet one-way delay: 17.704 ms  
Loss rate: 0.18%

# Run 4: Report of TCP Cubic — Data Link

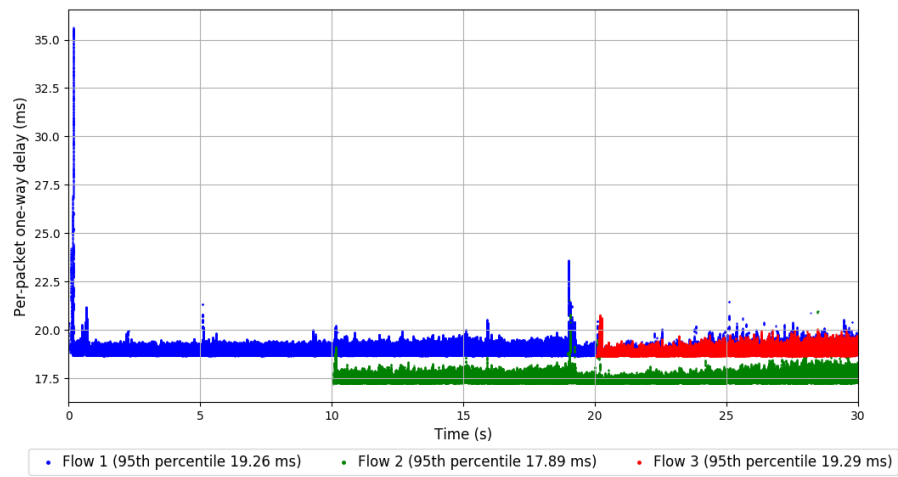
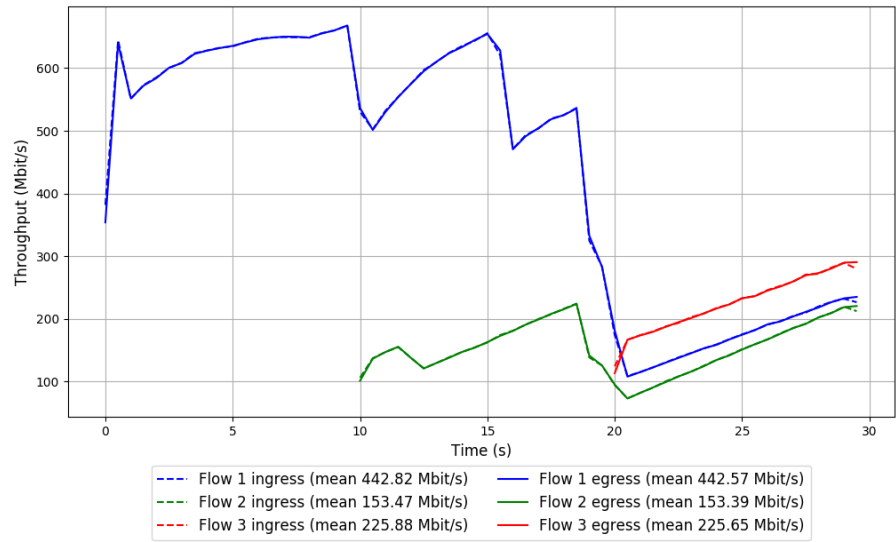


Run 5: Statistics of TCP Cubic

Start at: 2018-01-02 12:37:03  
End at: 2018-01-02 12:37:33  
Local clock offset: 1.56 ms  
Remote clock offset: -1.395 ms

# Below is generated by plot.py at 2018-01-02 17:03:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 619.60 Mbit/s  
95th percentile per-packet one-way delay: 19.241 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 442.57 Mbit/s  
95th percentile per-packet one-way delay: 19.262 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 153.39 Mbit/s  
95th percentile per-packet one-way delay: 17.886 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 225.65 Mbit/s  
95th percentile per-packet one-way delay: 19.293 ms  
Loss rate: 0.10%

# Run 5: Report of TCP Cubic — Data Link

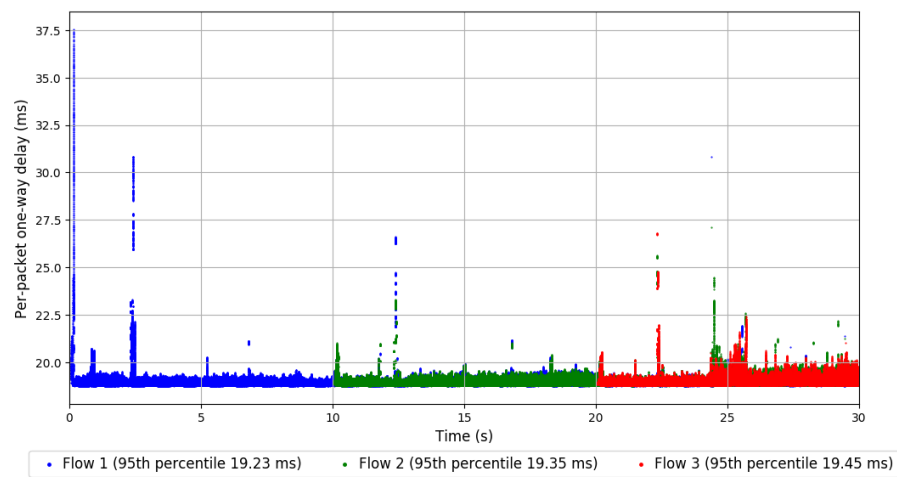
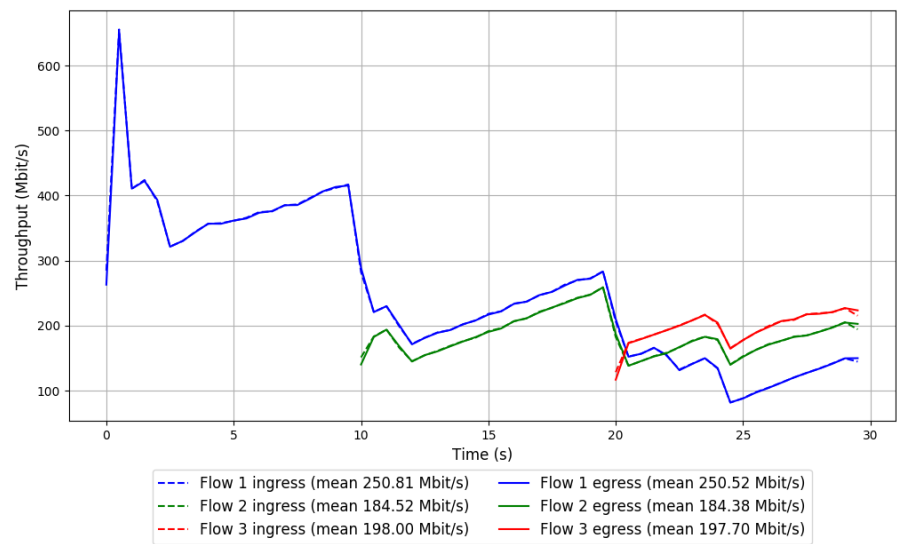


Run 6: Statistics of TCP Cubic

Start at: 2018-01-02 12:59:27  
End at: 2018-01-02 12:59:57  
Local clock offset: 1.485 ms  
Remote clock offset: -1.205 ms

# Below is generated by plot.py at 2018-01-02 17:03:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 438.88 Mbit/s  
95th percentile per-packet one-way delay: 19.308 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 250.52 Mbit/s  
95th percentile per-packet one-way delay: 19.229 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 184.38 Mbit/s  
95th percentile per-packet one-way delay: 19.352 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 197.70 Mbit/s  
95th percentile per-packet one-way delay: 19.445 ms  
Loss rate: 0.15%

Run 6: Report of TCP Cubic — Data Link



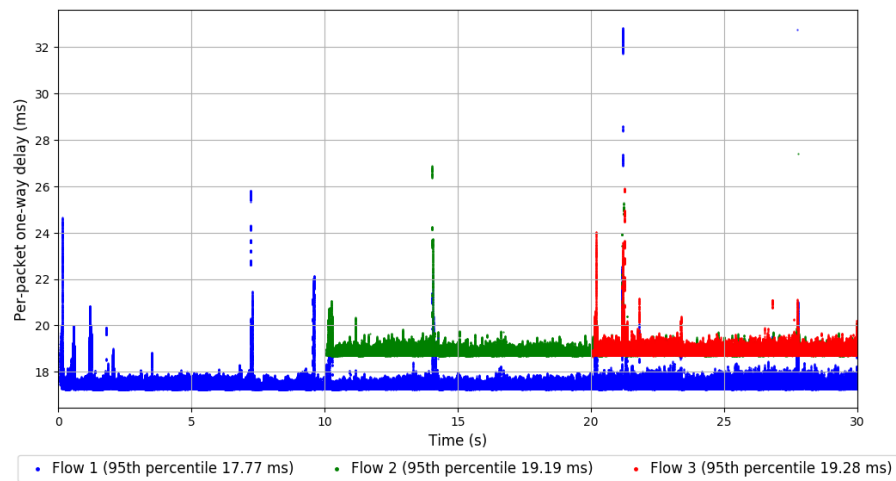
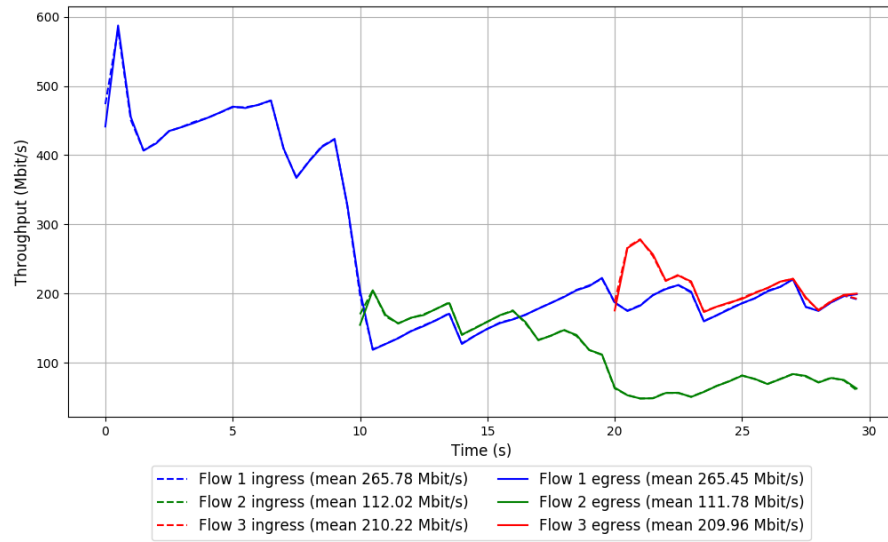
Run 7: Statistics of TCP Cubic

Start at: 2018-01-02 13:21:19  
End at: 2018-01-02 13:21:49  
Local clock offset: 1.657 ms  
Remote clock offset: -1.393 ms

# Below is generated by plot.py at 2018-01-02 17:06:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 409.56 Mbit/s  
95th percentile per-packet one-way delay: 19.104 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 265.45 Mbit/s  
95th percentile per-packet one-way delay: 17.775 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 111.78 Mbit/s  
95th percentile per-packet one-way delay: 19.186 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 209.96 Mbit/s  
95th percentile per-packet one-way delay: 19.276 ms  
Loss rate: 0.12%



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

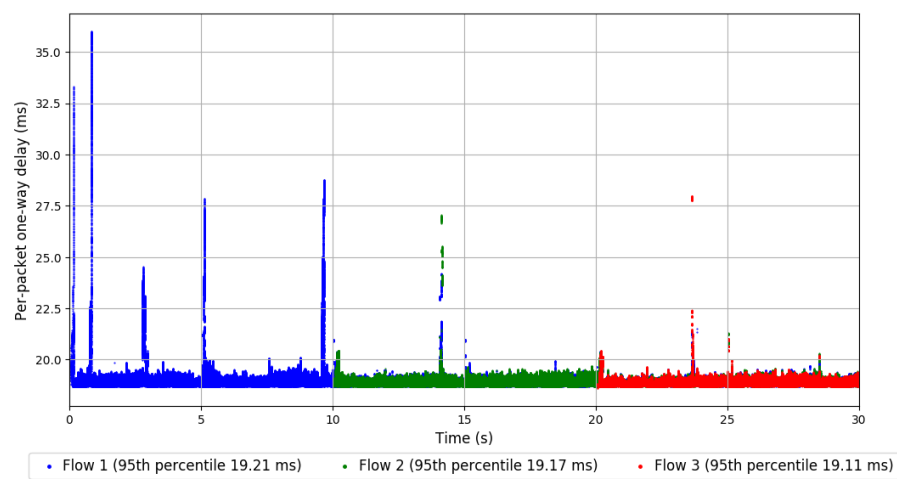
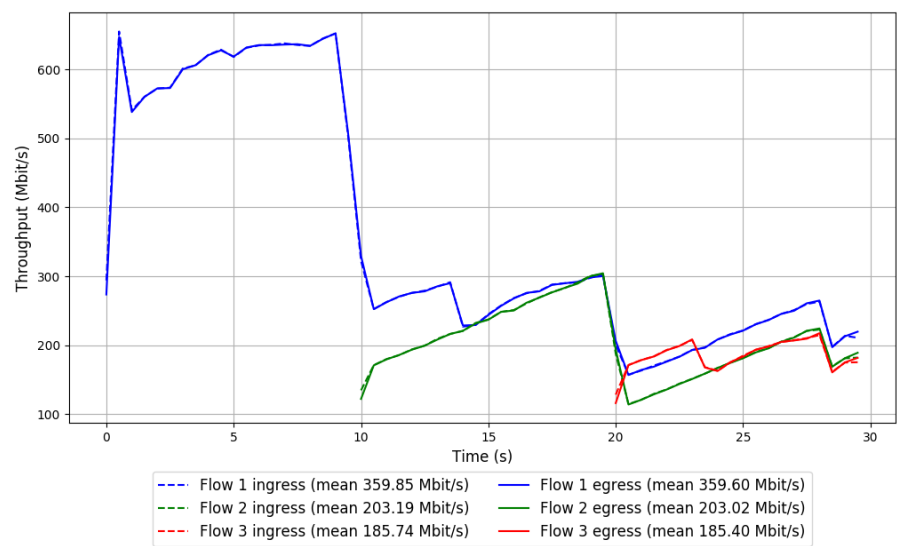


Run 8: Statistics of TCP Cubic

Start at: 2018-01-02 13:43:26  
End at: 2018-01-02 13:43:56  
Local clock offset: 1.557 ms  
Remote clock offset: -1.442 ms

# Below is generated by plot.py at 2018-01-02 17:09:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 556.33 Mbit/s  
95th percentile per-packet one-way delay: 19.191 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 359.60 Mbit/s  
95th percentile per-packet one-way delay: 19.214 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 203.02 Mbit/s  
95th percentile per-packet one-way delay: 19.168 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 185.40 Mbit/s  
95th percentile per-packet one-way delay: 19.114 ms  
Loss rate: 0.18%

Run 8: Report of TCP Cubic — Data Link

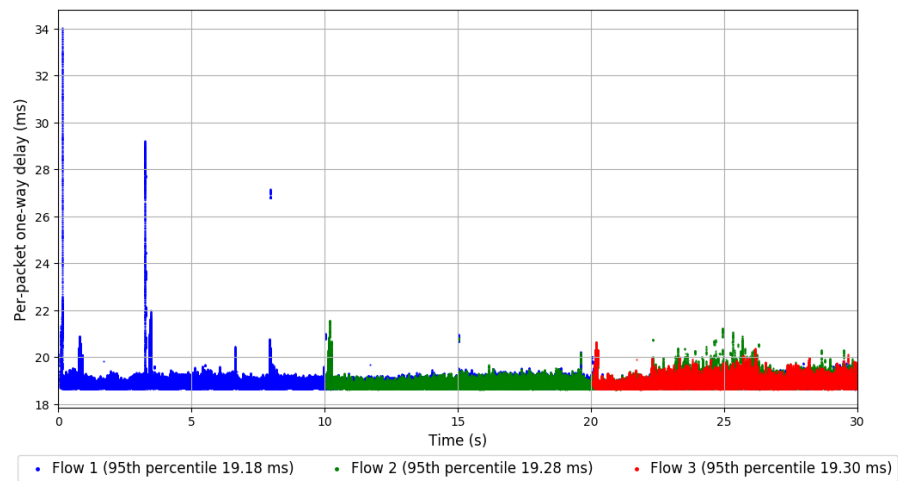
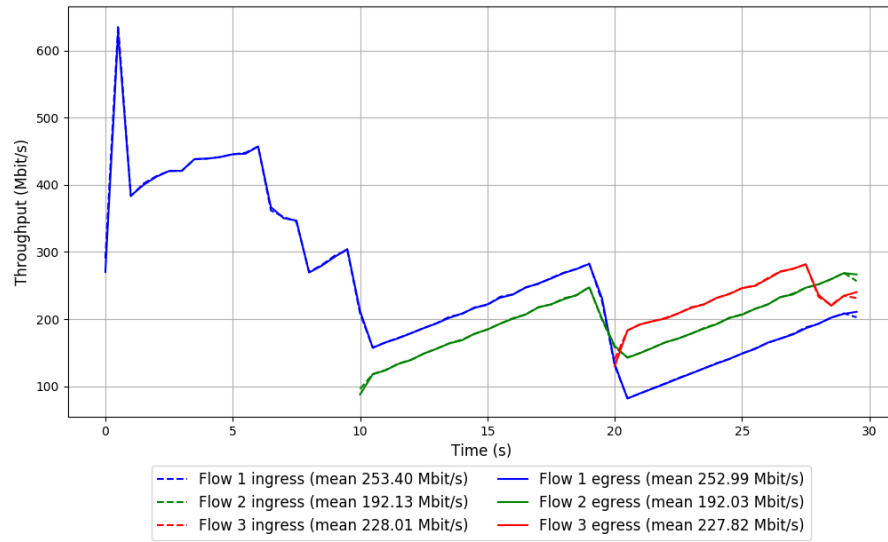


Run 9: Statistics of TCP Cubic

Start at: 2018-01-02 14:05:26  
End at: 2018-01-02 14:05:56  
Local clock offset: 1.476 ms  
Remote clock offset: -1.607 ms

# Below is generated by plot.py at 2018-01-02 17:09:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 456.49 Mbit/s  
95th percentile per-packet one-way delay: 19.238 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 252.99 Mbit/s  
95th percentile per-packet one-way delay: 19.178 ms  
Loss rate: 0.16%  
-- Flow 2:  
Average throughput: 192.03 Mbit/s  
95th percentile per-packet one-way delay: 19.282 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 227.82 Mbit/s  
95th percentile per-packet one-way delay: 19.298 ms  
Loss rate: 0.08%

# Run 9: Report of TCP Cubic — Data Link

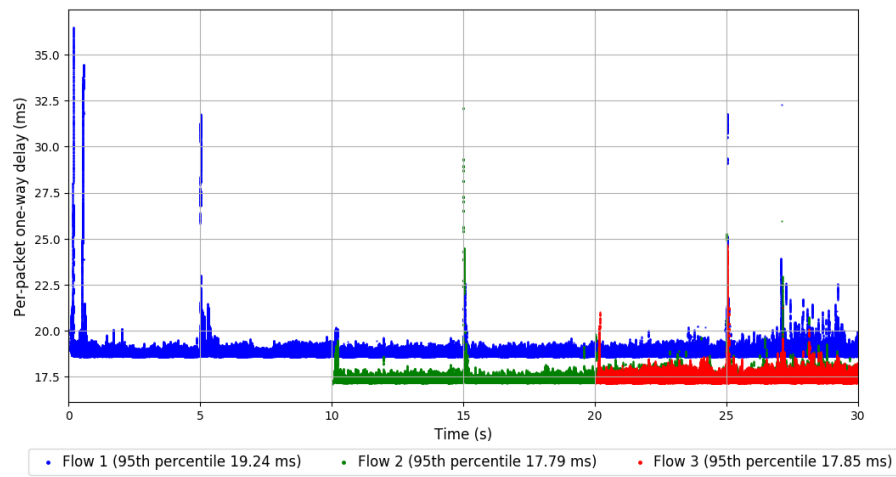
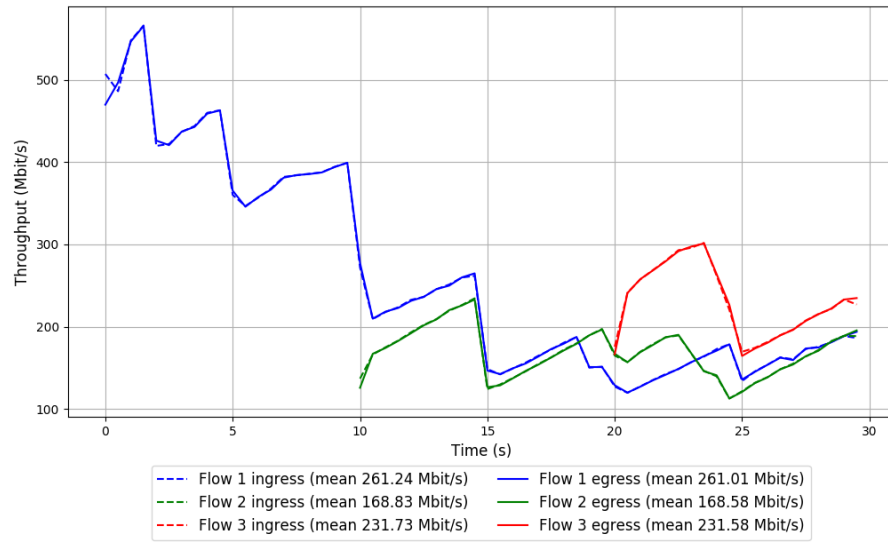


Run 10: Statistics of TCP Cubic

Start at: 2018-01-02 14:27:40  
End at: 2018-01-02 14:28:10  
Local clock offset: 1.502 ms  
Remote clock offset: -1.442 ms

# Below is generated by plot.py at 2018-01-02 17:09:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 450.17 Mbit/s  
95th percentile per-packet one-way delay: 19.125 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 261.01 Mbit/s  
95th percentile per-packet one-way delay: 19.236 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 168.58 Mbit/s  
95th percentile per-packet one-way delay: 17.788 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 231.58 Mbit/s  
95th percentile per-packet one-way delay: 17.853 ms  
Loss rate: 0.06%

# Run 10: Report of TCP Cubic — Data Link



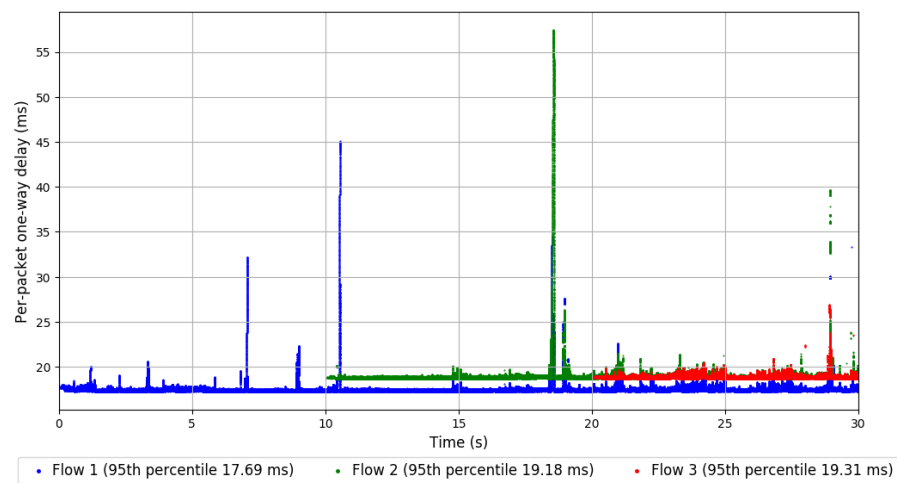
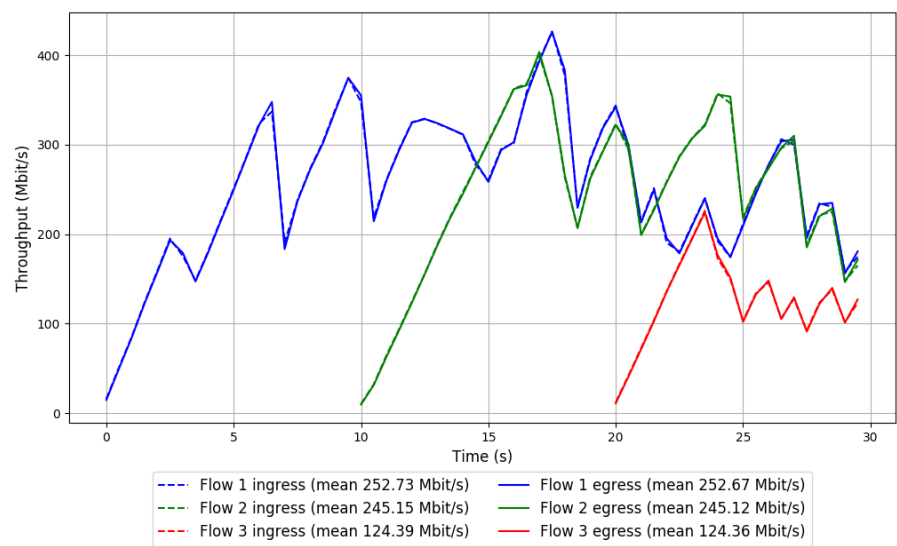
Run 1: Statistics of LEDBAT

Start at: 2018-01-02 11:06:28  
End at: 2018-01-02 11:06:58  
Local clock offset: 1.365 ms  
Remote clock offset: -1.259 ms

# Below is generated by plot.py at 2018-01-02 17:09:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 456.97 Mbit/s  
95th percentile per-packet one-way delay: 19.025 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 252.67 Mbit/s  
95th percentile per-packet one-way delay: 17.694 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 245.12 Mbit/s  
95th percentile per-packet one-way delay: 19.178 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 124.36 Mbit/s  
95th percentile per-packet one-way delay: 19.307 ms  
Loss rate: 0.02%



Run 1: Report of LEDBAT — Data Link

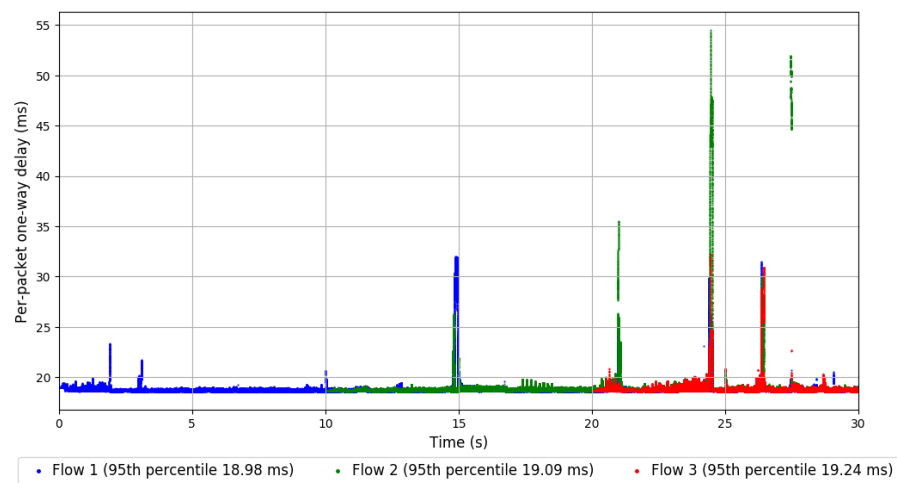
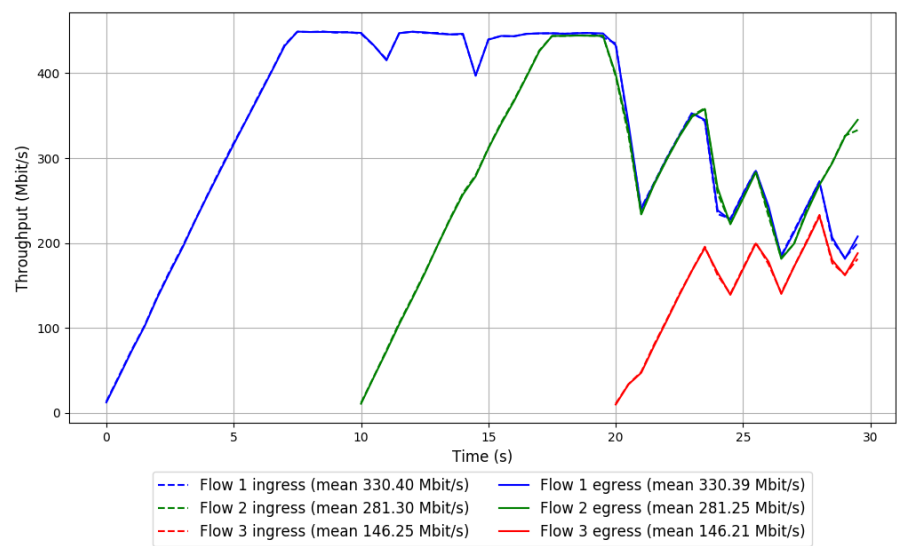


Run 2: Statistics of LEDBAT

Start at: 2018-01-02 11:28:50  
End at: 2018-01-02 11:29:20  
Local clock offset: 1.434 ms  
Remote clock offset: -1.543 ms

# Below is generated by plot.py at 2018-01-02 17:10:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 565.89 Mbit/s  
95th percentile per-packet one-way delay: 19.041 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 330.39 Mbit/s  
95th percentile per-packet one-way delay: 18.977 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 281.25 Mbit/s  
95th percentile per-packet one-way delay: 19.089 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 146.21 Mbit/s  
95th percentile per-packet one-way delay: 19.239 ms  
Loss rate: 0.02%

Run 2: Report of LEDBAT — Data Link

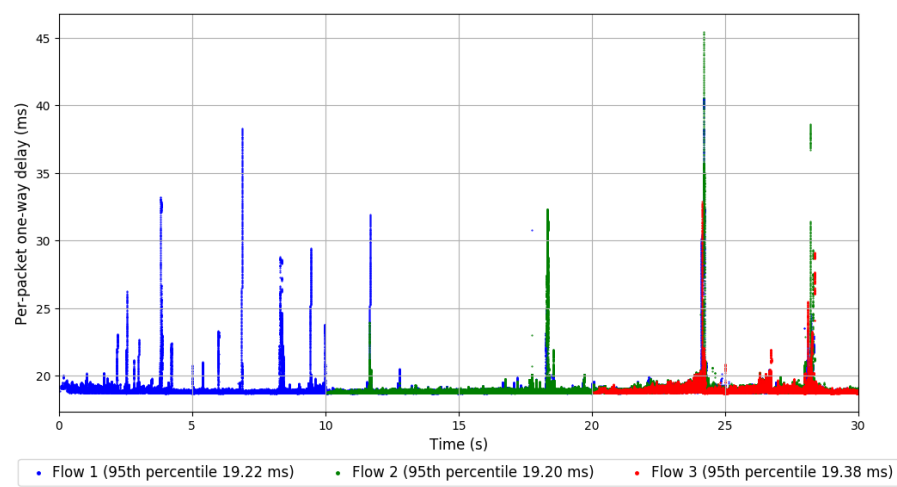
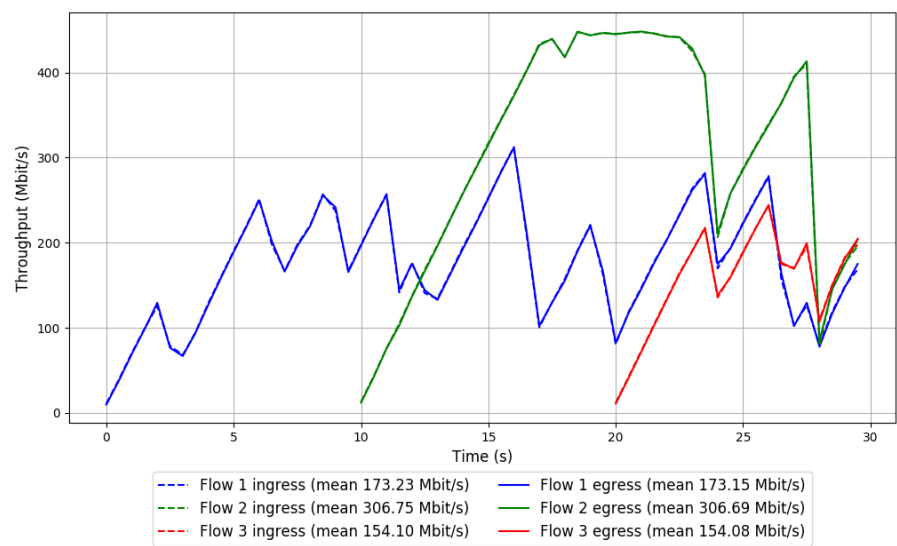


Run 3: Statistics of LEDBAT

Start at: 2018-01-02 11:51:04  
End at: 2018-01-02 11:51:34  
Local clock offset: 1.415 ms  
Remote clock offset: -1.407 ms

# Below is generated by plot.py at 2018-01-02 17:10:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 428.51 Mbit/s  
95th percentile per-packet one-way delay: 19.230 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 173.15 Mbit/s  
95th percentile per-packet one-way delay: 19.218 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 306.69 Mbit/s  
95th percentile per-packet one-way delay: 19.204 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 154.08 Mbit/s  
95th percentile per-packet one-way delay: 19.379 ms  
Loss rate: 0.01%

Run 3: Report of LEDBAT — Data Link

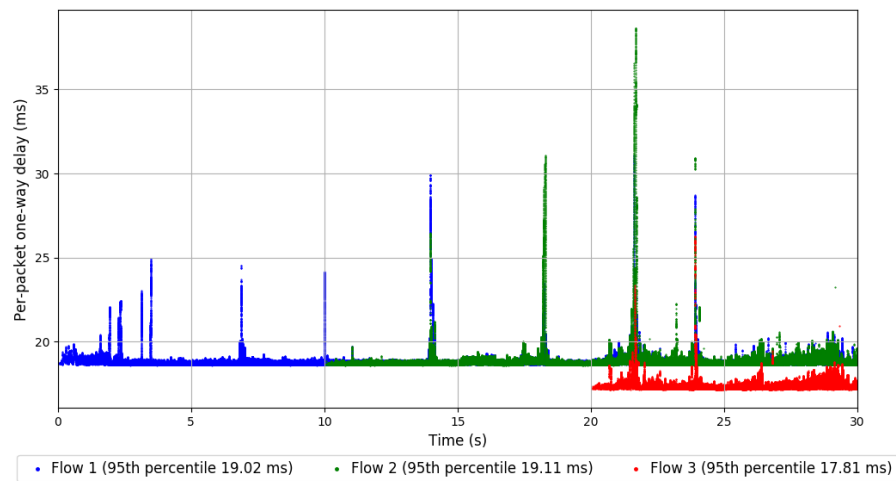
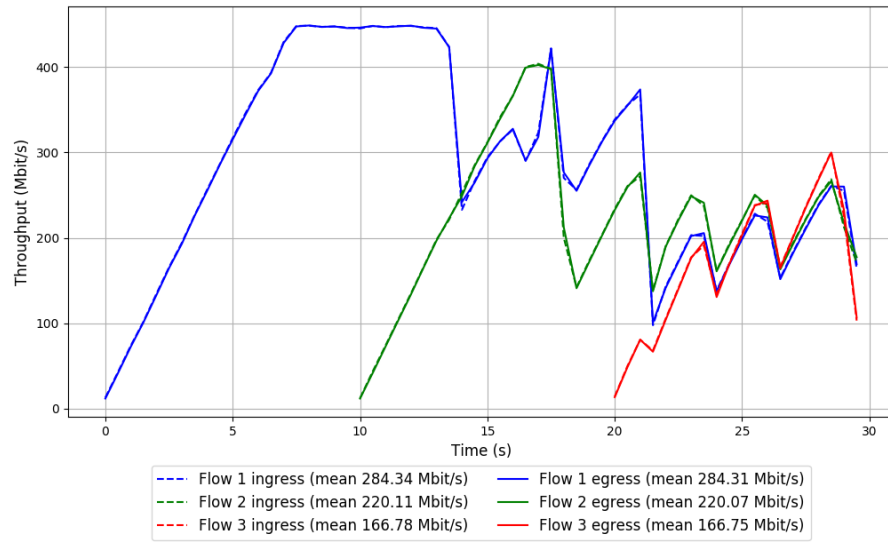


Run 4: Statistics of LEDBAT

Start at: 2018-01-02 12:13:11  
End at: 2018-01-02 12:13:41  
Local clock offset: 1.606 ms  
Remote clock offset: -1.548 ms

# Below is generated by plot.py at 2018-01-02 17:10:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 486.11 Mbit/s  
95th percentile per-packet one-way delay: 19.029 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 284.31 Mbit/s  
95th percentile per-packet one-way delay: 19.021 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 220.07 Mbit/s  
95th percentile per-packet one-way delay: 19.109 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 166.75 Mbit/s  
95th percentile per-packet one-way delay: 17.812 ms  
Loss rate: 0.02%

# Run 4: Report of LEDBAT — Data Link



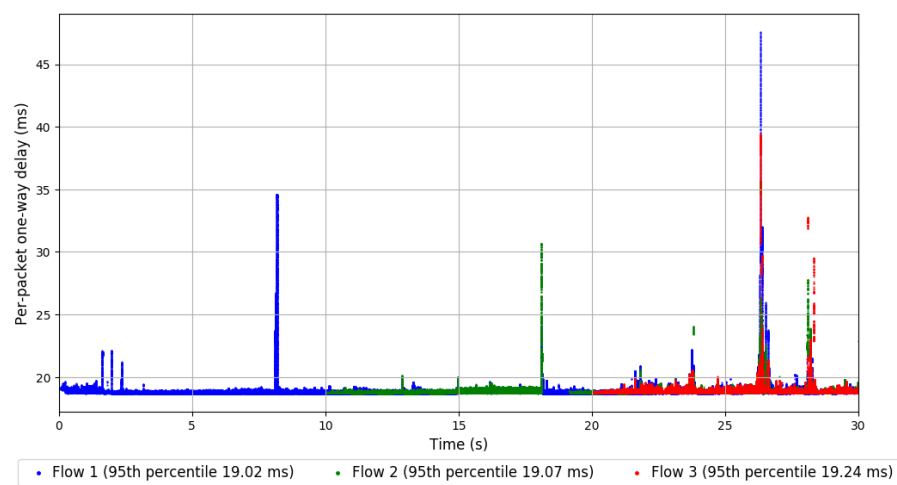
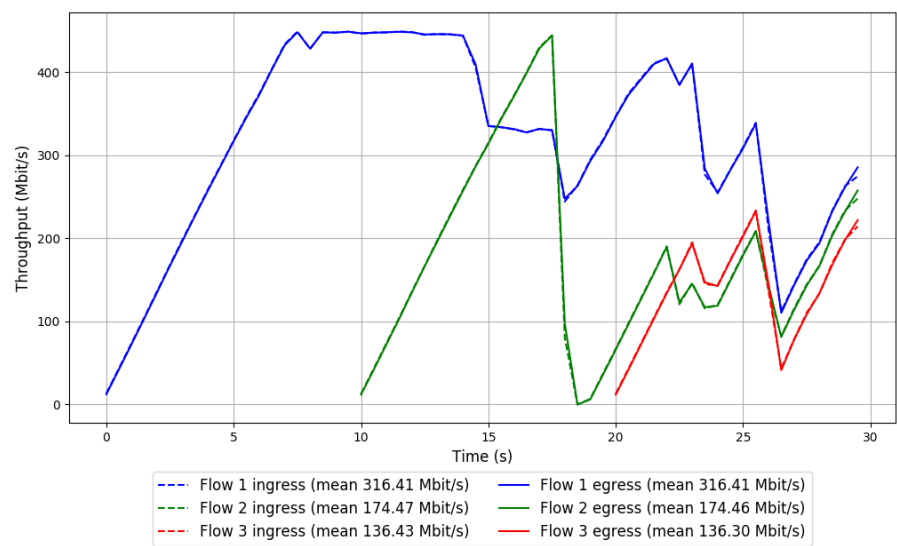
Run 5: Statistics of LEDBAT

Start at: 2018-01-02 12:35:27  
End at: 2018-01-02 12:35:57  
Local clock offset: 1.453 ms  
Remote clock offset: -1.459 ms

# Below is generated by plot.py at 2018-01-02 17:13:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 477.73 Mbit/s  
95th percentile per-packet one-way delay: 19.059 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 316.41 Mbit/s  
95th percentile per-packet one-way delay: 19.019 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 174.46 Mbit/s  
95th percentile per-packet one-way delay: 19.071 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 136.30 Mbit/s  
95th percentile per-packet one-way delay: 19.237 ms  
Loss rate: 0.05%



Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-02 12:57:53

End at: 2018-01-02 12:58:23

Local clock offset: 1.539 ms

Remote clock offset: -1.28 ms

# Below is generated by plot.py at 2018-01-02 17:14:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 439.40 Mbit/s

95th percentile per-packet one-way delay: 19.079 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 255.94 Mbit/s

95th percentile per-packet one-way delay: 18.975 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 200.51 Mbit/s

95th percentile per-packet one-way delay: 19.152 ms

Loss rate: 0.04%

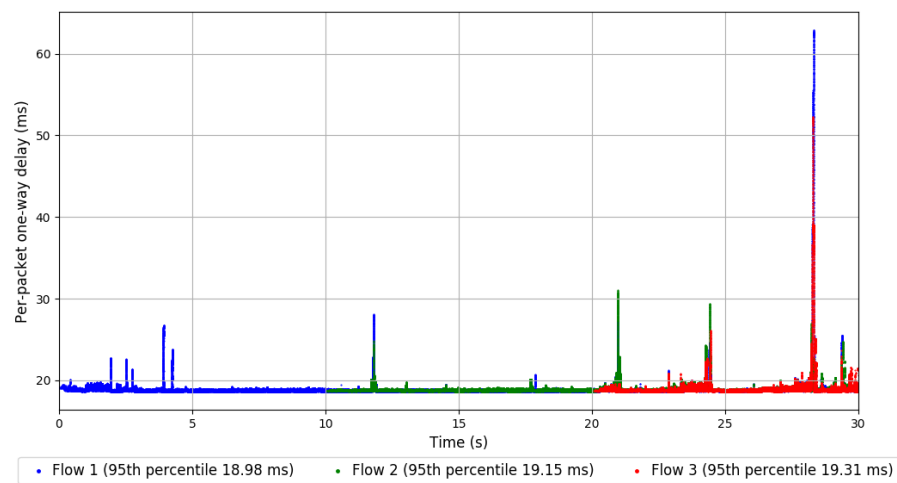
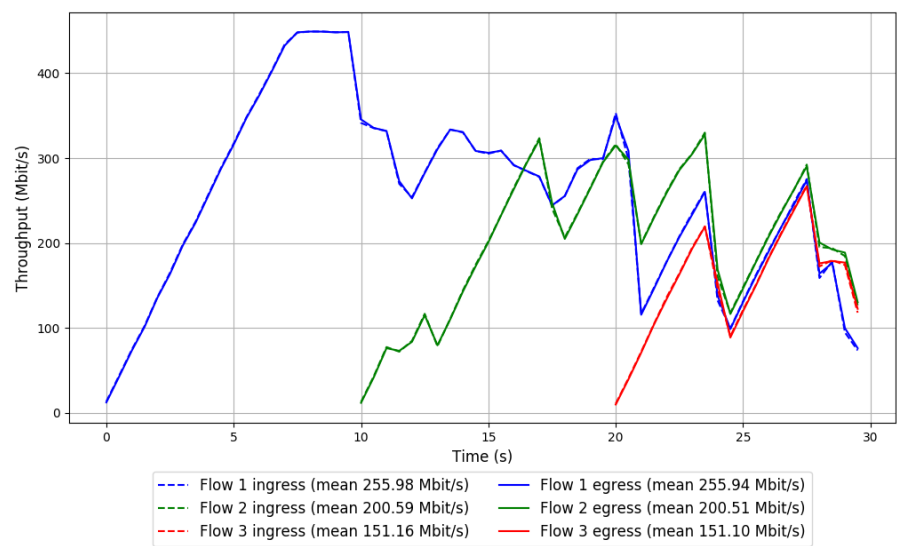
-- Flow 3:

Average throughput: 151.10 Mbit/s

95th percentile per-packet one-way delay: 19.314 ms

Loss rate: 0.01%

Run 6: Report of LEDBAT — Data Link

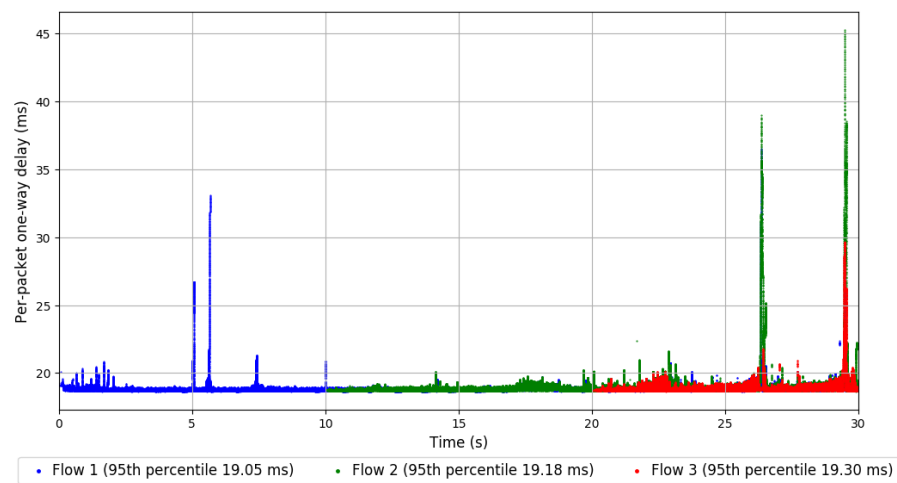
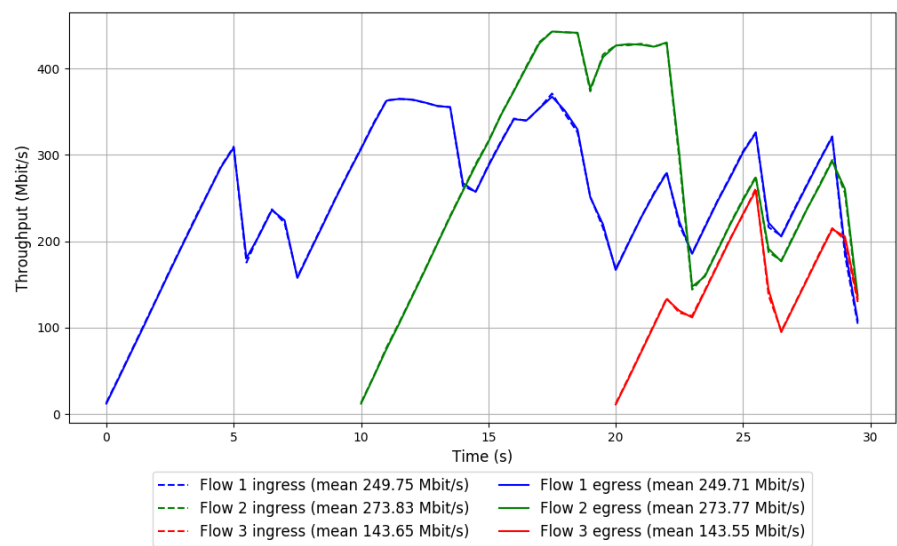


Run 7: Statistics of LEDBAT

Start at: 2018-01-02 13:19:42  
End at: 2018-01-02 13:20:12  
Local clock offset: 1.554 ms  
Remote clock offset: -1.472 ms

# Below is generated by plot.py at 2018-01-02 17:14:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 479.65 Mbit/s  
95th percentile per-packet one-way delay: 19.130 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 249.71 Mbit/s  
95th percentile per-packet one-way delay: 19.054 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 273.77 Mbit/s  
95th percentile per-packet one-way delay: 19.176 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 143.55 Mbit/s  
95th percentile per-packet one-way delay: 19.296 ms  
Loss rate: 0.07%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-02 13:41:53

End at: 2018-01-02 13:42:23

Local clock offset: 1.455 ms

Remote clock offset: -1.5 ms

# Below is generated by plot.py at 2018-01-02 17:14:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 423.41 Mbit/s

95th percentile per-packet one-way delay: 19.138 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 260.32 Mbit/s

95th percentile per-packet one-way delay: 19.081 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 166.93 Mbit/s

95th percentile per-packet one-way delay: 19.165 ms

Loss rate: 0.07%

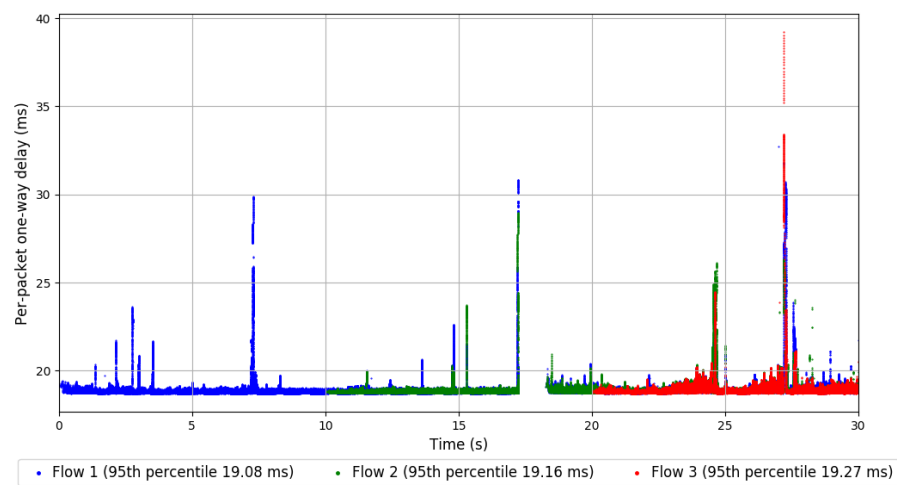
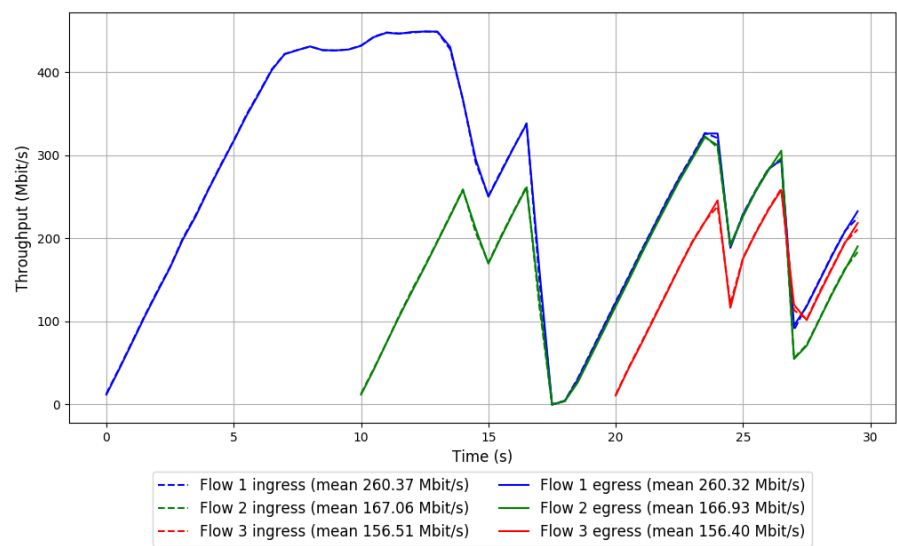
-- Flow 3:

Average throughput: 156.40 Mbit/s

95th percentile per-packet one-way delay: 19.272 ms

Loss rate: 0.06%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-02 14:03:52

End at: 2018-01-02 14:04:22

Local clock offset: 1.455 ms

Remote clock offset: -1.5 ms

# Below is generated by plot.py at 2018-01-02 17:15:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 439.97 Mbit/s

95th percentile per-packet one-way delay: 19.266 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 259.28 Mbit/s

95th percentile per-packet one-way delay: 19.193 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 197.45 Mbit/s

95th percentile per-packet one-way delay: 19.273 ms

Loss rate: 0.02%

-- Flow 3:

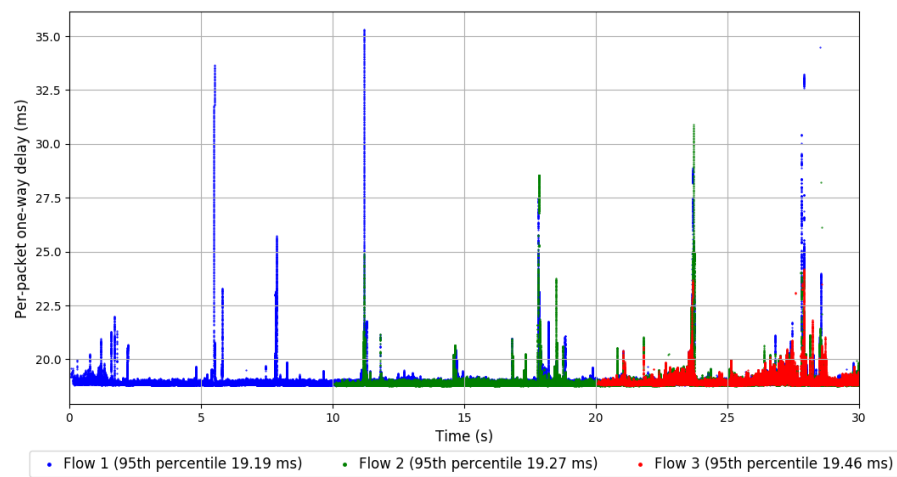
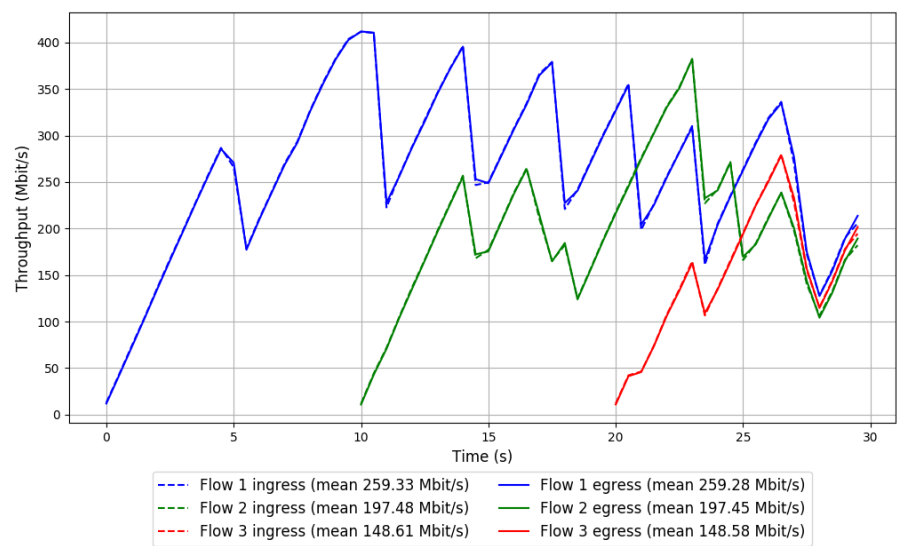
Average throughput: 148.58 Mbit/s

95th percentile per-packet one-way delay: 19.460 ms

Loss rate: 0.02%



Run 9: Report of LEDBAT — Data Link

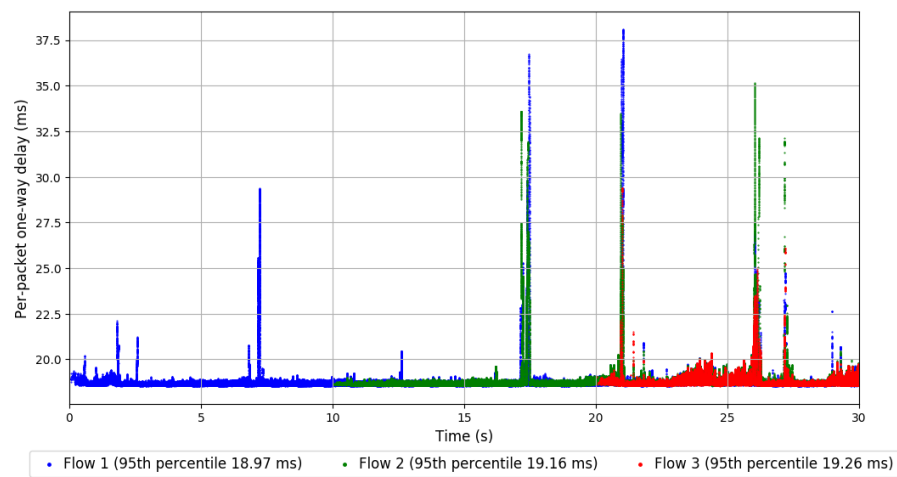
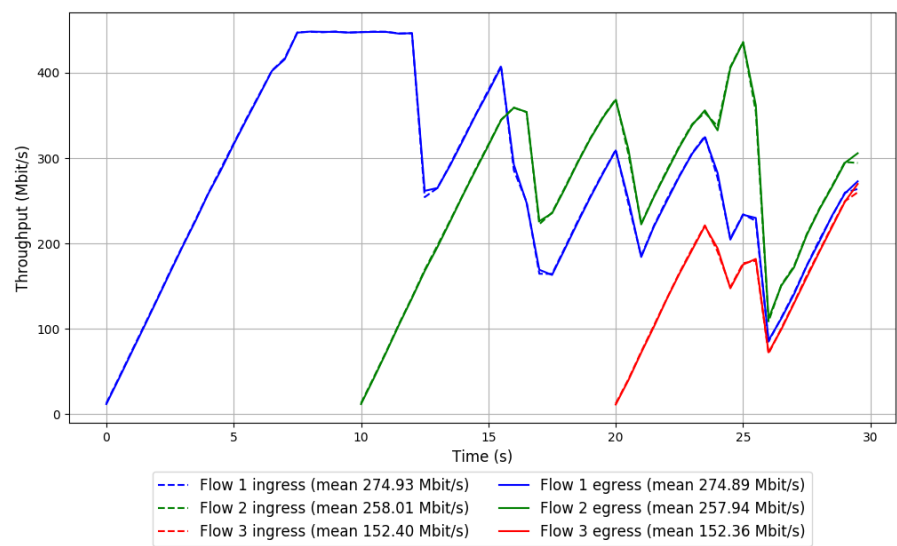


Run 10: Statistics of LEDBAT

Start at: 2018-01-02 14:26:03  
End at: 2018-01-02 14:26:33  
Local clock offset: 1.508 ms  
Remote clock offset: -1.458 ms

# Below is generated by plot.py at 2018-01-02 17:16:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 497.20 Mbit/s  
95th percentile per-packet one-way delay: 19.079 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 274.89 Mbit/s  
95th percentile per-packet one-way delay: 18.969 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 257.94 Mbit/s  
95th percentile per-packet one-way delay: 19.155 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 152.36 Mbit/s  
95th percentile per-packet one-way delay: 19.264 ms  
Loss rate: 0.03%

Run 10: Report of LEDBAT — Data Link

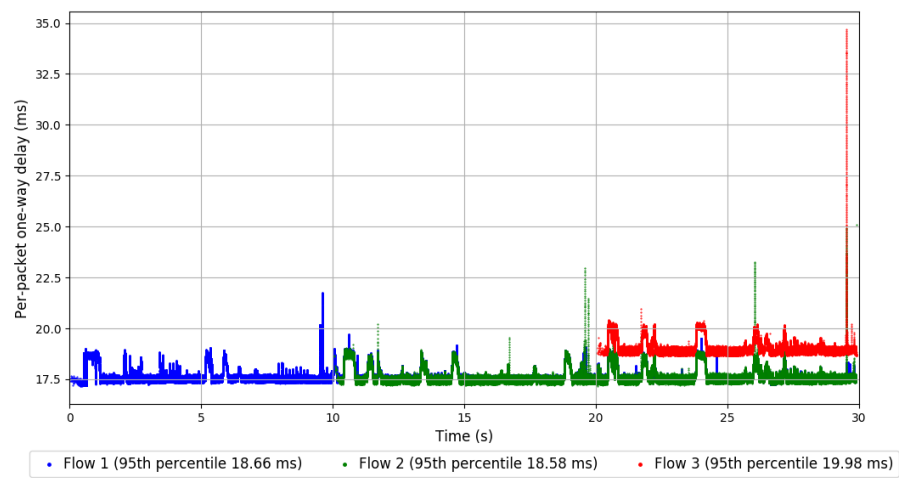
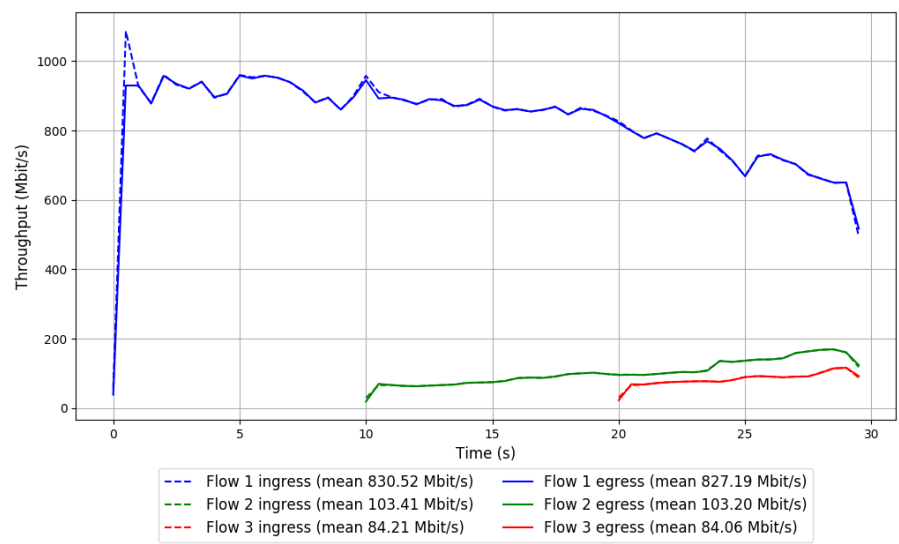


Run 1: Statistics of PCC

Start at: 2018-01-02 11:14:37  
End at: 2018-01-02 11:15:07  
Local clock offset: 1.396 ms  
Remote clock offset: -1.559 ms

# Below is generated by plot.py at 2018-01-02 17:22:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 923.10 Mbit/s  
95th percentile per-packet one-way delay: 18.746 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 827.19 Mbit/s  
95th percentile per-packet one-way delay: 18.664 ms  
Loss rate: 0.40%  
-- Flow 2:  
Average throughput: 103.20 Mbit/s  
95th percentile per-packet one-way delay: 18.580 ms  
Loss rate: 0.17%  
-- Flow 3:  
Average throughput: 84.06 Mbit/s  
95th percentile per-packet one-way delay: 19.983 ms  
Loss rate: 0.17%

Run 1: Report of PCC — Data Link

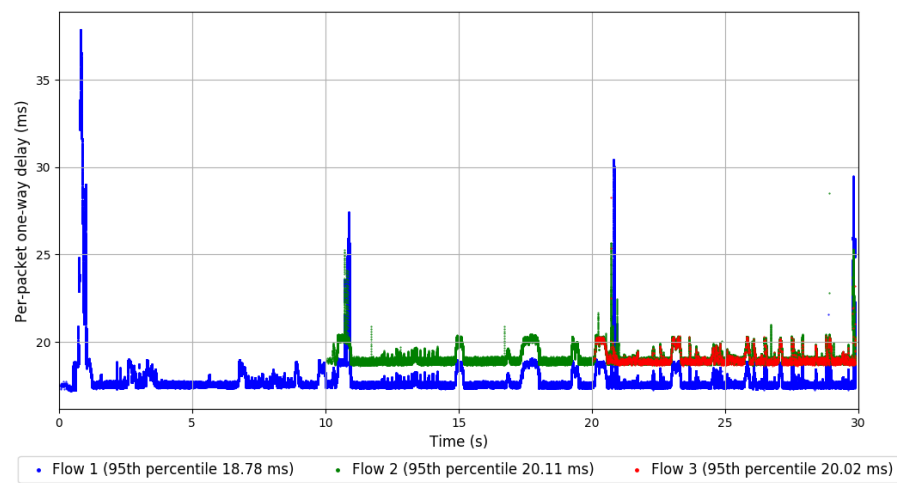
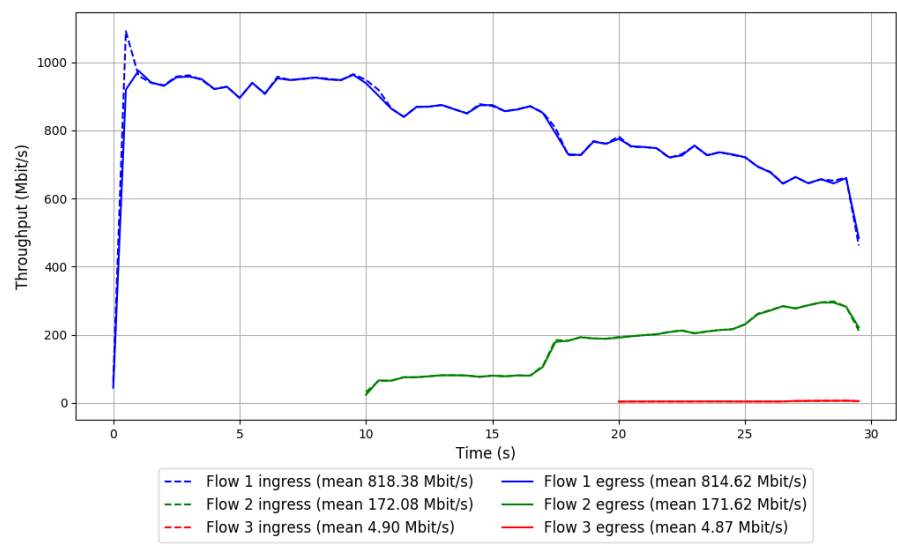


Run 2: Statistics of PCC

Start at: 2018-01-02 11:36:56  
End at: 2018-01-02 11:37:26  
Local clock offset: 1.5 ms  
Remote clock offset: -1.434 ms

# Below is generated by plot.py at 2018-01-02 17:23:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 930.17 Mbit/s  
95th percentile per-packet one-way delay: 19.103 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 814.62 Mbit/s  
95th percentile per-packet one-way delay: 18.783 ms  
Loss rate: 0.46%  
-- Flow 2:  
Average throughput: 171.62 Mbit/s  
95th percentile per-packet one-way delay: 20.105 ms  
Loss rate: 0.26%  
-- Flow 3:  
Average throughput: 4.87 Mbit/s  
95th percentile per-packet one-way delay: 20.017 ms  
Loss rate: 0.50%

Run 2: Report of PCC — Data Link



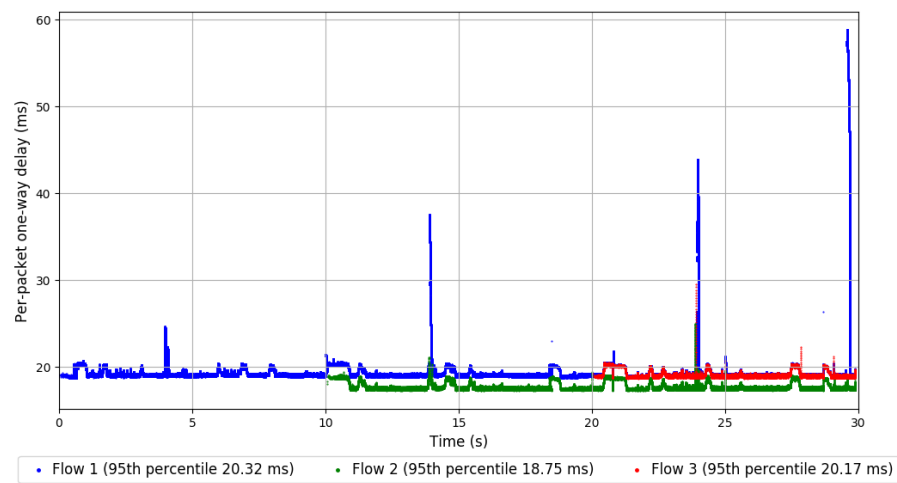
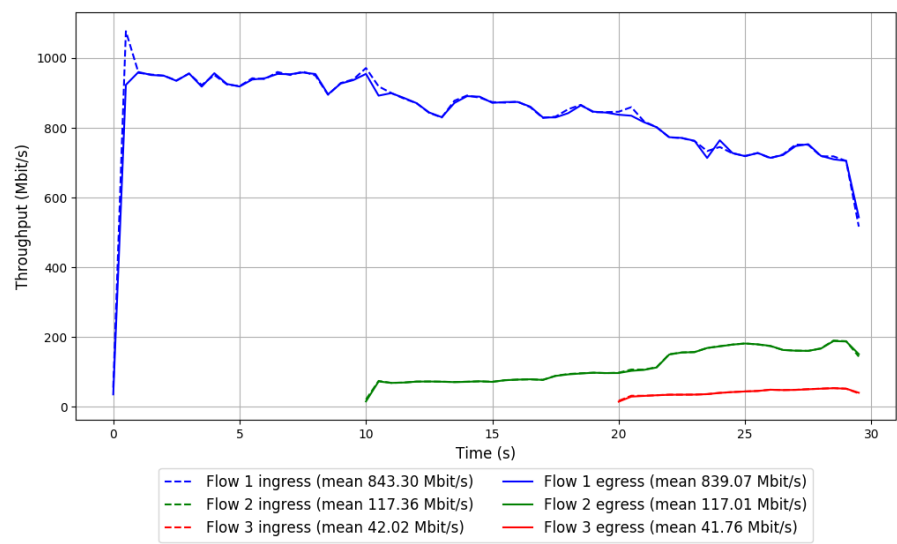
Run 3: Statistics of PCC

Start at: 2018-01-02 11:59:03  
End at: 2018-01-02 11:59:33  
Local clock offset: 1.438 ms  
Remote clock offset: -1.453 ms

# Below is generated by plot.py at 2018-01-02 17:27:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 930.53 Mbit/s  
95th percentile per-packet one-way delay: 20.310 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 839.07 Mbit/s  
95th percentile per-packet one-way delay: 20.322 ms  
Loss rate: 0.50%  
-- Flow 2:  
Average throughput: 117.01 Mbit/s  
95th percentile per-packet one-way delay: 18.747 ms  
Loss rate: 0.29%  
-- Flow 3:  
Average throughput: 41.76 Mbit/s  
95th percentile per-packet one-way delay: 20.172 ms  
Loss rate: 0.63%



Run 3: Report of PCC — Data Link

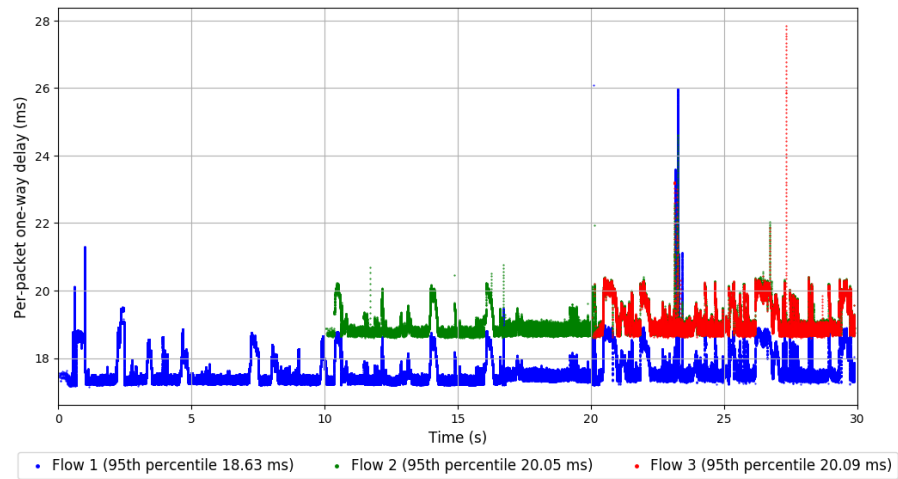
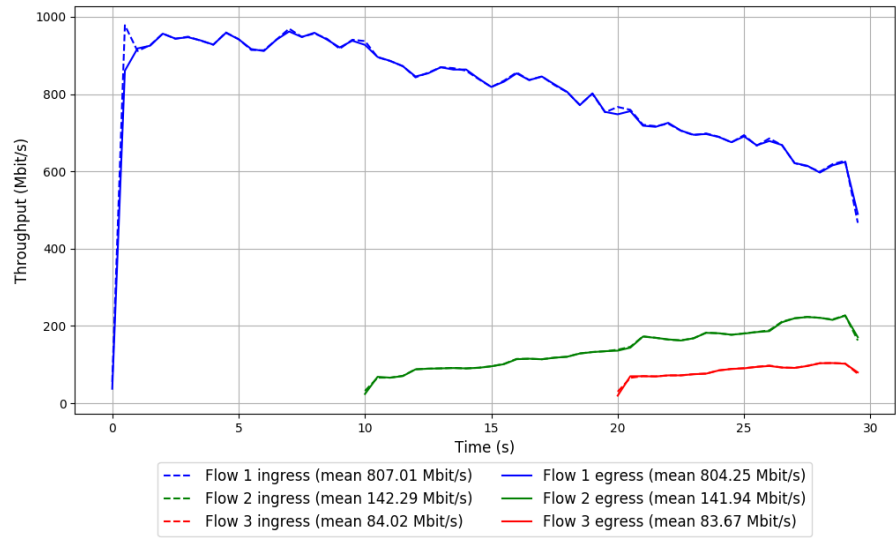


Run 4: Statistics of PCC

Start at: 2018-01-02 12:21:14  
End at: 2018-01-02 12:21:44  
Local clock offset: 1.609 ms  
Remote clock offset: -1.494 ms

# Below is generated by plot.py at 2018-01-02 17:27:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 926.12 Mbit/s  
95th percentile per-packet one-way delay: 19.087 ms  
Loss rate: 0.33%  
-- Flow 1:  
Average throughput: 804.25 Mbit/s  
95th percentile per-packet one-way delay: 18.626 ms  
Loss rate: 0.34%  
-- Flow 2:  
Average throughput: 141.94 Mbit/s  
95th percentile per-packet one-way delay: 20.048 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 83.67 Mbit/s  
95th percentile per-packet one-way delay: 20.090 ms  
Loss rate: 0.43%

#### Run 4: Report of PCC — Data Link

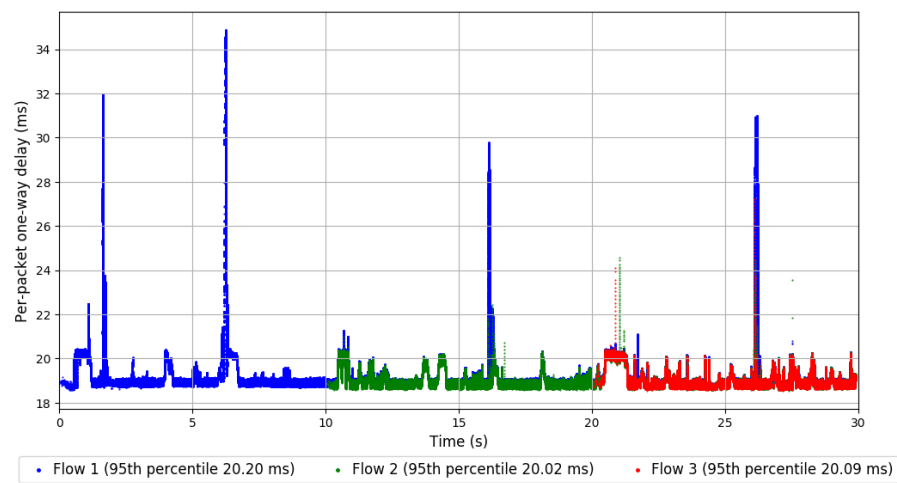
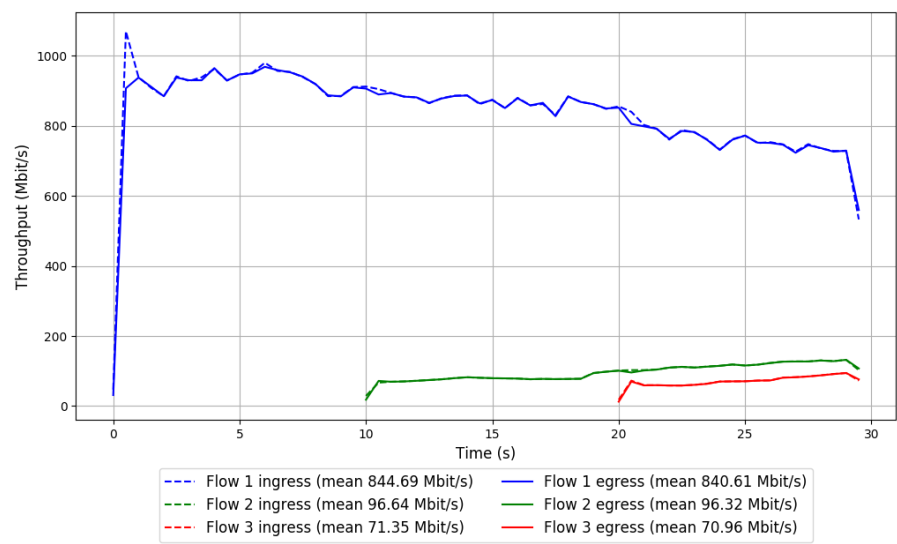


Run 5: Statistics of PCC

Start at: 2018-01-02 12:43:39  
End at: 2018-01-02 12:44:09  
Local clock offset: 1.555 ms  
Remote clock offset: -1.387 ms

# Below is generated by plot.py at 2018-01-02 17:28:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 927.91 Mbit/s  
95th percentile per-packet one-way delay: 20.188 ms  
Loss rate: 0.47%  
-- Flow 1:  
Average throughput: 840.61 Mbit/s  
95th percentile per-packet one-way delay: 20.199 ms  
Loss rate: 0.48%  
-- Flow 2:  
Average throughput: 96.32 Mbit/s  
95th percentile per-packet one-way delay: 20.020 ms  
Loss rate: 0.36%  
-- Flow 3:  
Average throughput: 70.96 Mbit/s  
95th percentile per-packet one-way delay: 20.090 ms  
Loss rate: 0.54%

Run 5: Report of PCC — Data Link

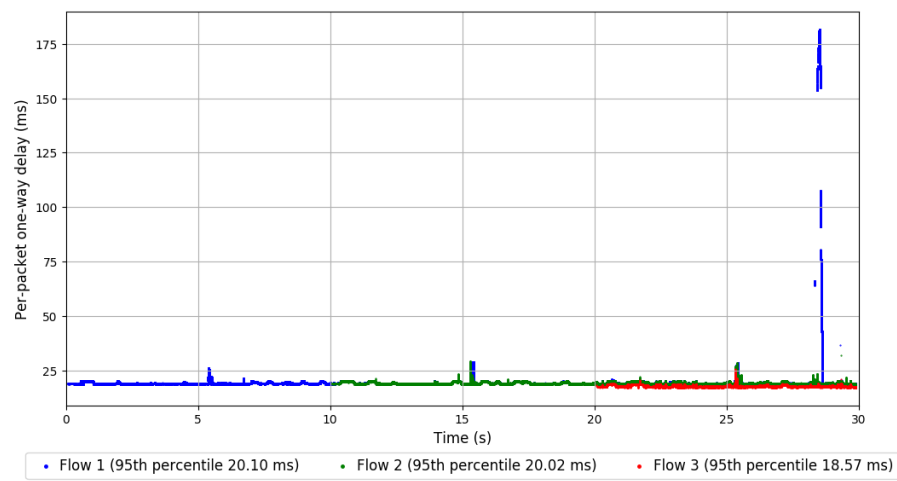
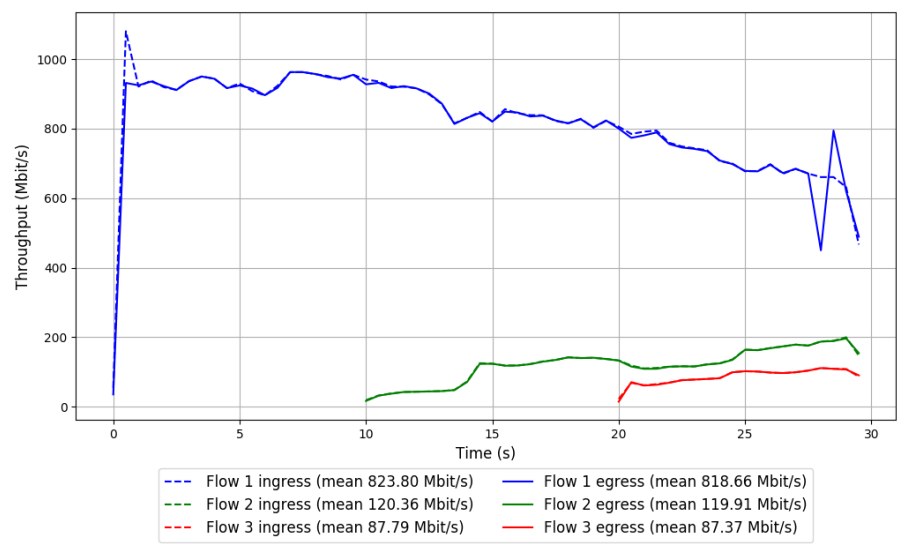


Run 6: Statistics of PCC

Start at: 2018-01-02 13:05:49  
End at: 2018-01-02 13:06:19  
Local clock offset: 1.613 ms  
Remote clock offset: -1.354 ms

# Below is generated by plot.py at 2018-01-02 17:28:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 927.11 Mbit/s  
95th percentile per-packet one-way delay: 20.088 ms  
Loss rate: 0.60%  
-- Flow 1:  
Average throughput: 818.66 Mbit/s  
95th percentile per-packet one-way delay: 20.099 ms  
Loss rate: 0.62%  
-- Flow 2:  
Average throughput: 119.91 Mbit/s  
95th percentile per-packet one-way delay: 20.016 ms  
Loss rate: 0.38%  
-- Flow 3:  
Average throughput: 87.37 Mbit/s  
95th percentile per-packet one-way delay: 18.566 ms  
Loss rate: 0.48%

Run 6: Report of PCC — Data Link



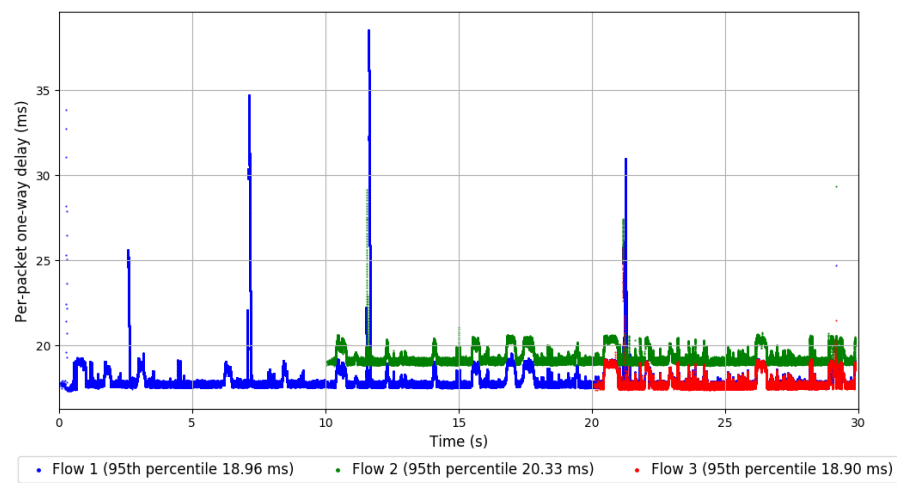
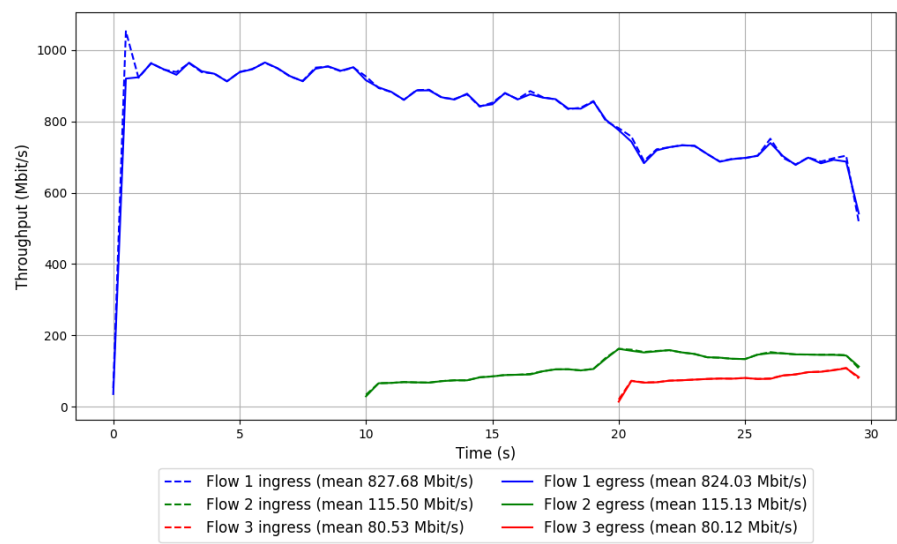
Run 7: Statistics of PCC

Start at: 2018-01-02 13:27:44  
End at: 2018-01-02 13:28:14  
Local clock offset: 1.549 ms  
Remote clock offset: -1.334 ms

# Below is generated by plot.py at 2018-01-02 17:29:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 926.92 Mbit/s  
95th percentile per-packet one-way delay: 19.133 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 824.03 Mbit/s  
95th percentile per-packet one-way delay: 18.960 ms  
Loss rate: 0.44%  
-- Flow 2:  
Average throughput: 115.13 Mbit/s  
95th percentile per-packet one-way delay: 20.327 ms  
Loss rate: 0.32%  
-- Flow 3:  
Average throughput: 80.12 Mbit/s  
95th percentile per-packet one-way delay: 18.900 ms  
Loss rate: 0.50%



Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-02 13:49:53

End at: 2018-01-02 13:50:23

Local clock offset: 1.555 ms

Remote clock offset: -1.48 ms

# Below is generated by plot.py at 2018-01-02 17:30:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 929.61 Mbit/s

95th percentile per-packet one-way delay: 20.209 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 791.79 Mbit/s

95th percentile per-packet one-way delay: 20.213 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 174.90 Mbit/s

95th percentile per-packet one-way delay: 20.181 ms

Loss rate: 0.18%

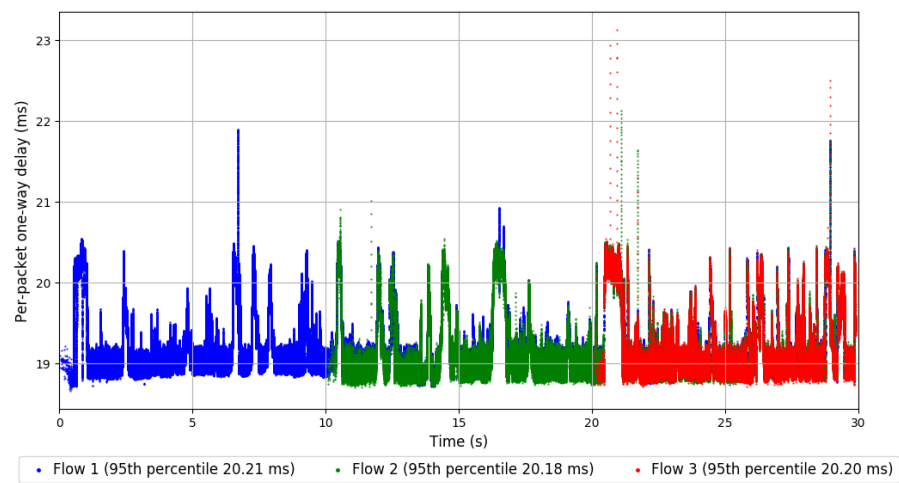
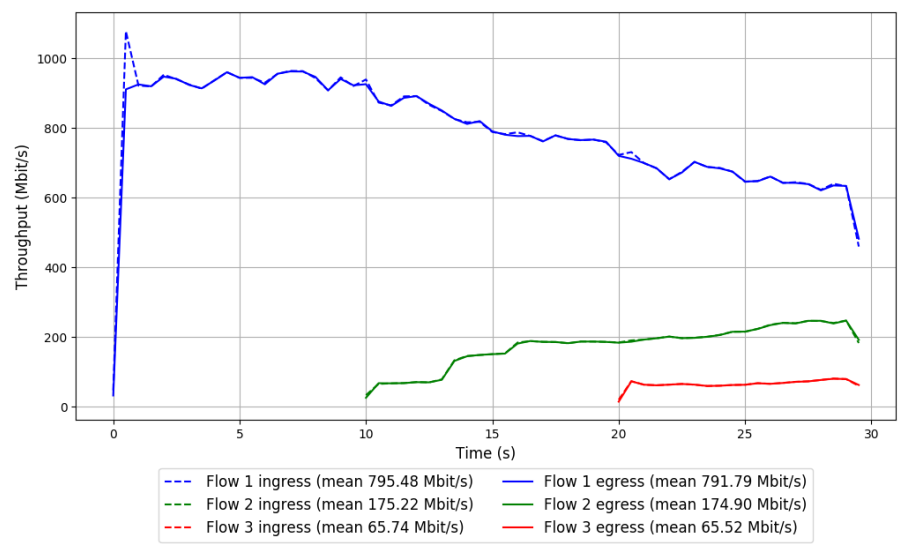
-- Flow 3:

Average throughput: 65.52 Mbit/s

95th percentile per-packet one-way delay: 20.197 ms

Loss rate: 0.34%

Run 8: Report of PCC — Data Link

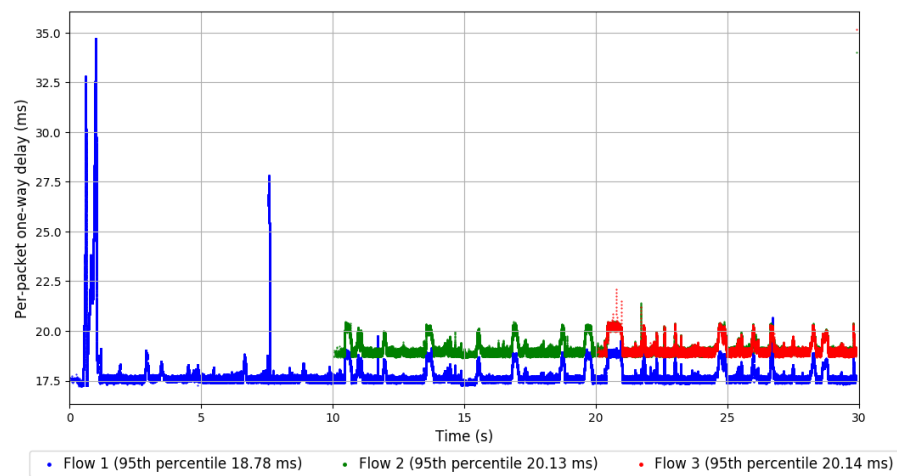
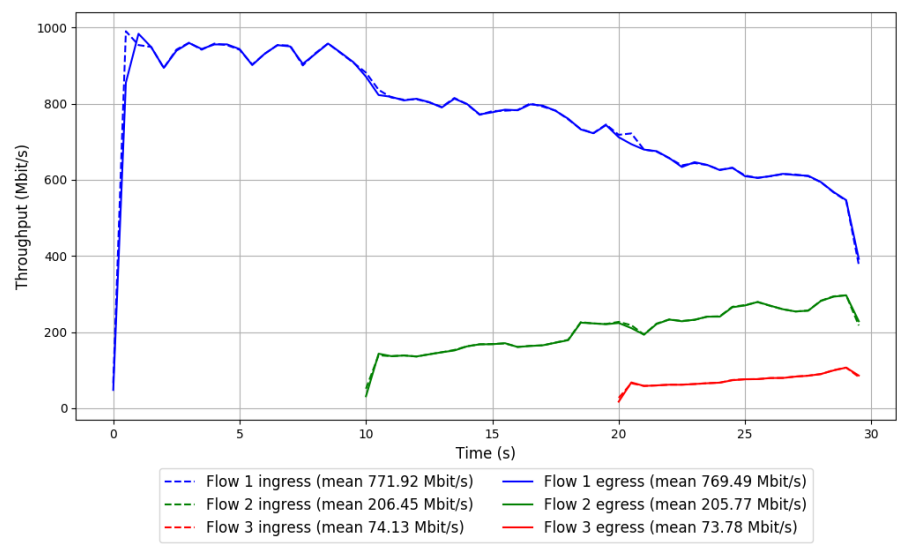


Run 9: Statistics of PCC

Start at: 2018-01-02 14:11:45  
End at: 2018-01-02 14:12:15  
Local clock offset: 1.438 ms  
Remote clock offset: -1.556 ms

# Below is generated by plot.py at 2018-01-02 17:37:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 930.16 Mbit/s  
95th percentile per-packet one-way delay: 19.338 ms  
Loss rate: 0.36%  
-- Flow 1:  
Average throughput: 769.49 Mbit/s  
95th percentile per-packet one-way delay: 18.781 ms  
Loss rate: 0.36%  
-- Flow 2:  
Average throughput: 205.77 Mbit/s  
95th percentile per-packet one-way delay: 20.130 ms  
Loss rate: 0.33%  
-- Flow 3:  
Average throughput: 73.78 Mbit/s  
95th percentile per-packet one-way delay: 20.140 ms  
Loss rate: 0.45%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-02 14:34:08

End at: 2018-01-02 14:34:38

Local clock offset: 1.367 ms

Remote clock offset: -1.45 ms

# Below is generated by plot.py at 2018-01-02 17:37:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 917.20 Mbit/s

95th percentile per-packet one-way delay: 20.213 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 818.90 Mbit/s

95th percentile per-packet one-way delay: 20.208 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 66.93 Mbit/s

95th percentile per-packet one-way delay: 20.207 ms

Loss rate: 0.29%

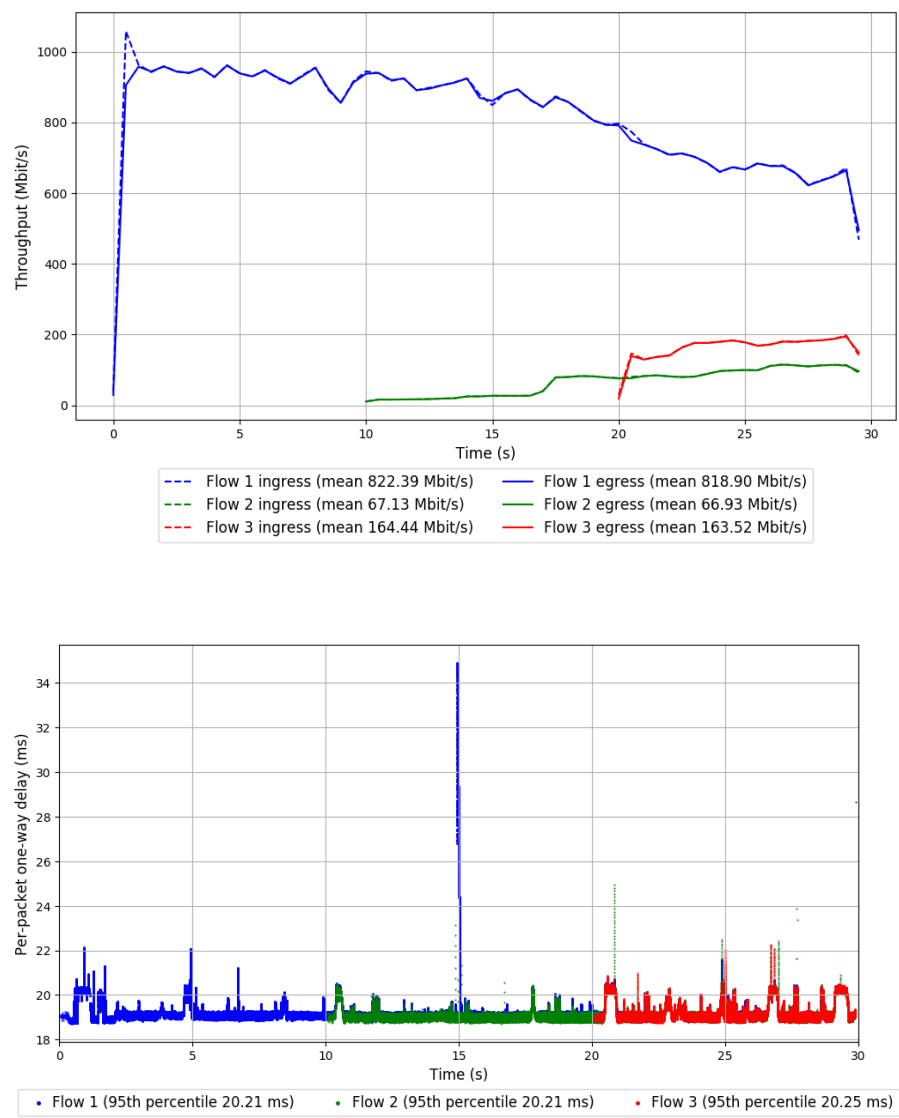
-- Flow 3:

Average throughput: 163.52 Mbit/s

95th percentile per-packet one-way delay: 20.249 ms

Loss rate: 0.56%

Run 10: Report of PCC — Data Link



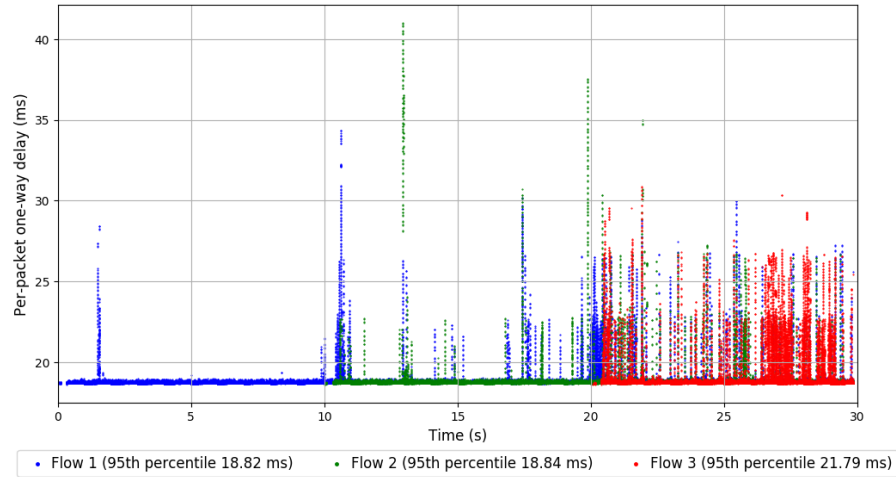
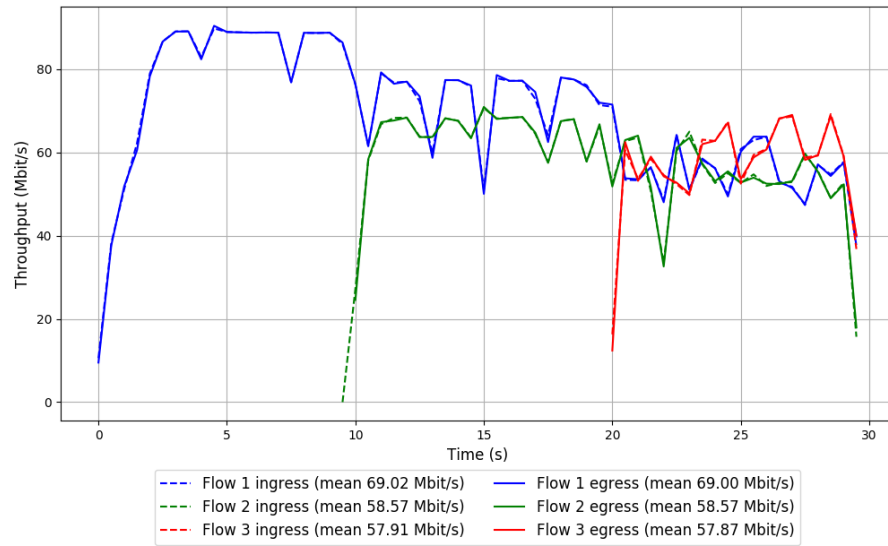
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-02 11:16:15  
End at: 2018-01-02 11:16:45  
Local clock offset: 1.42 ms  
Remote clock offset: -1.524 ms

# Below is generated by plot.py at 2018-01-02 17:37:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 126.91 Mbit/s  
95th percentile per-packet one-way delay: 18.924 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 69.00 Mbit/s  
95th percentile per-packet one-way delay: 18.823 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 58.57 Mbit/s  
95th percentile per-packet one-way delay: 18.836 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 57.87 Mbit/s  
95th percentile per-packet one-way delay: 21.792 ms  
Loss rate: 0.00%



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

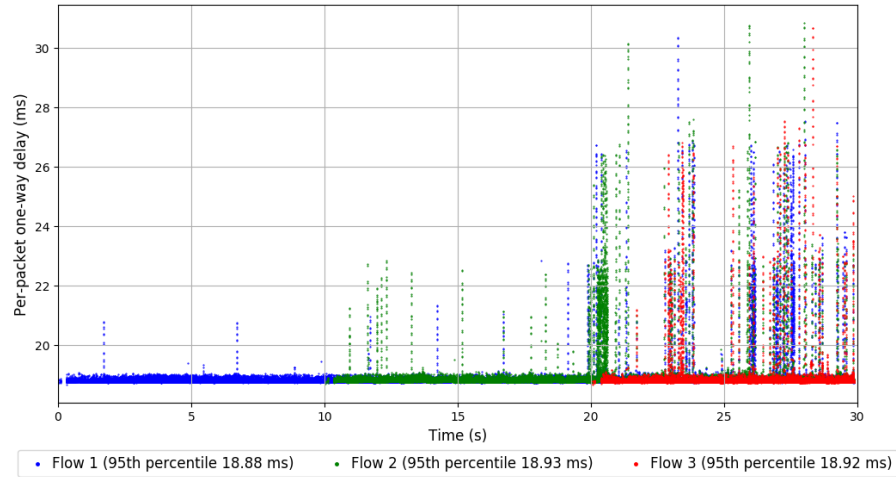
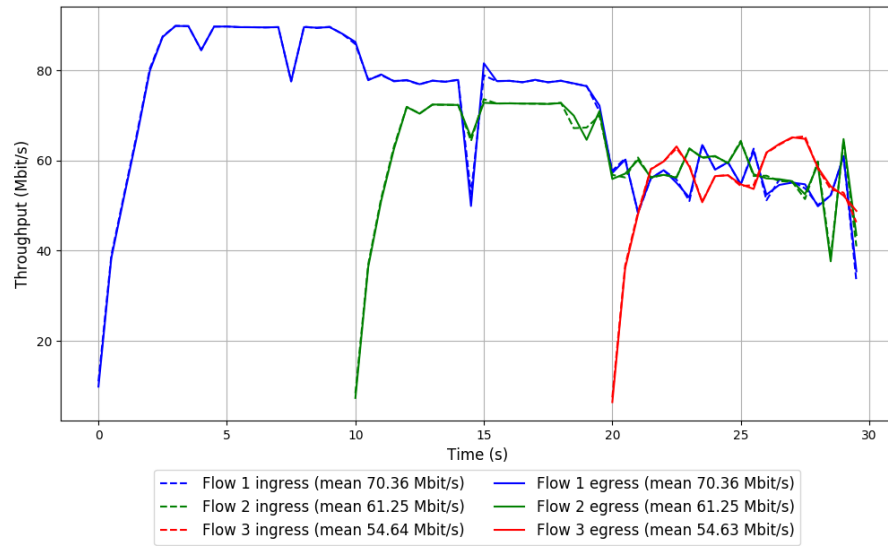


Run 2: Statistics of QUIC Cubic

Start at: 2018-01-02 11:38:34  
End at: 2018-01-02 11:39:04  
Local clock offset: 1.38 ms  
Remote clock offset: -1.433 ms

# Below is generated by plot.py at 2018-01-02 17:37:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 128.98 Mbit/s  
95th percentile per-packet one-way delay: 18.898 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 70.36 Mbit/s  
95th percentile per-packet one-way delay: 18.881 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 61.25 Mbit/s  
95th percentile per-packet one-way delay: 18.930 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 54.63 Mbit/s  
95th percentile per-packet one-way delay: 18.918 ms  
Loss rate: 0.01%

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

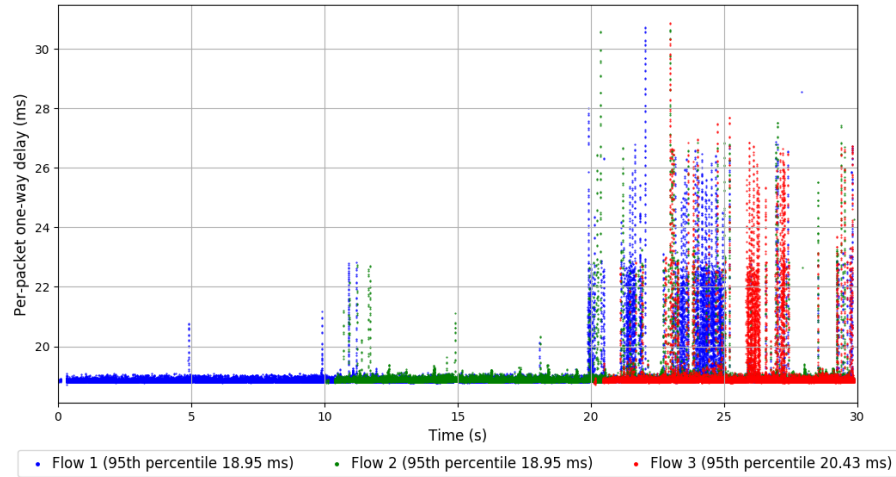
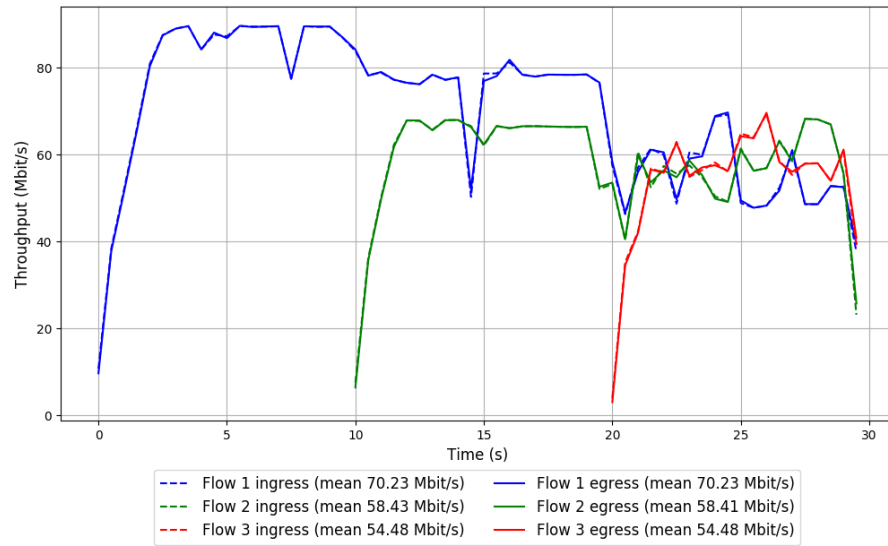


Run 3: Statistics of QUIC Cubic

Start at: 2018-01-02 12:00:41  
End at: 2018-01-02 12:01:11  
Local clock offset: 1.438 ms  
Remote clock offset: -1.412 ms

# Below is generated by plot.py at 2018-01-02 17:37:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 126.85 Mbit/s  
95th percentile per-packet one-way delay: 18.968 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 70.23 Mbit/s  
95th percentile per-packet one-way delay: 18.945 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 58.41 Mbit/s  
95th percentile per-packet one-way delay: 18.953 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 54.48 Mbit/s  
95th percentile per-packet one-way delay: 20.428 ms  
Loss rate: 0.00%

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

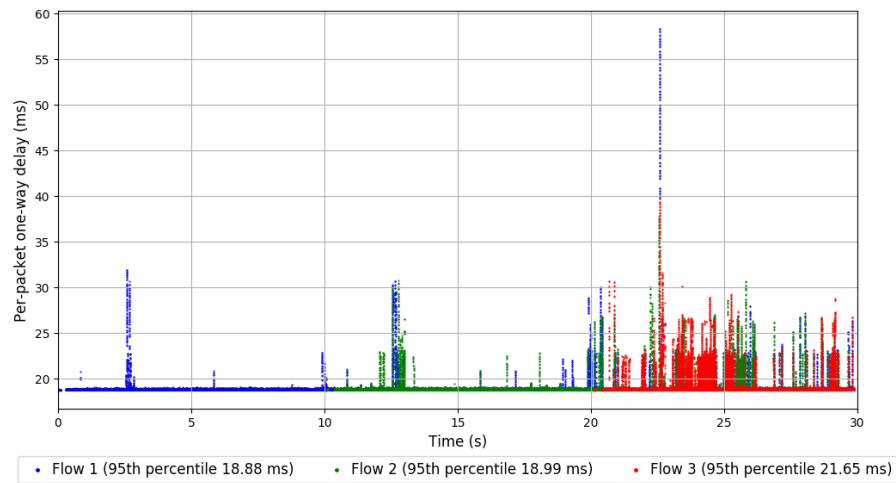
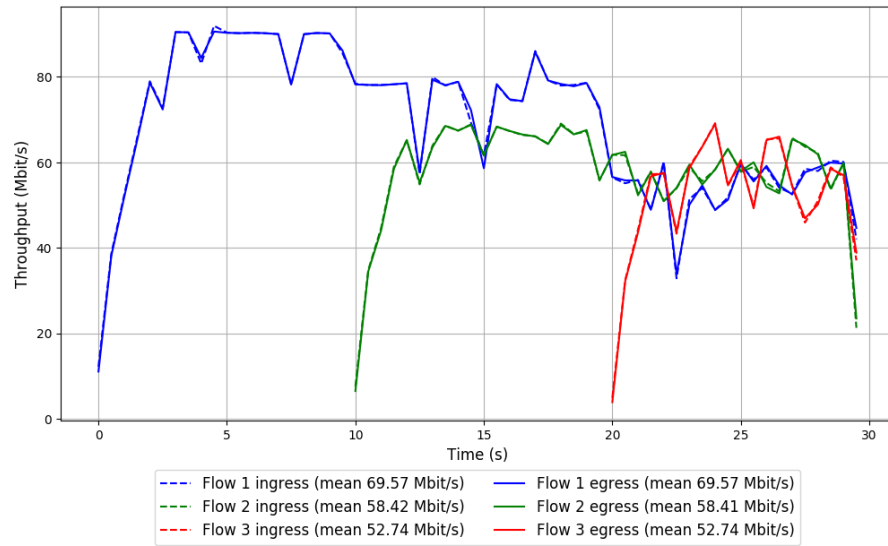


Run 4: Statistics of QUIC Cubic

Start at: 2018-01-02 12:22:52  
End at: 2018-01-02 12:23:22  
Local clock offset: 1.529 ms  
Remote clock offset: -1.401 ms

# Below is generated by plot.py at 2018-01-02 17:37:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 125.61 Mbit/s  
95th percentile per-packet one-way delay: 18.953 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 69.57 Mbit/s  
95th percentile per-packet one-way delay: 18.882 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 58.41 Mbit/s  
95th percentile per-packet one-way delay: 18.991 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 52.74 Mbit/s  
95th percentile per-packet one-way delay: 21.647 ms  
Loss rate: 0.00%

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



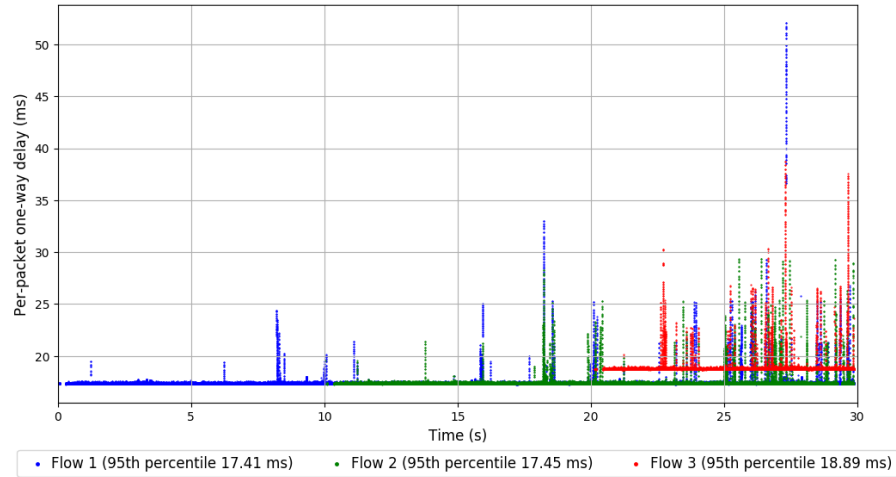
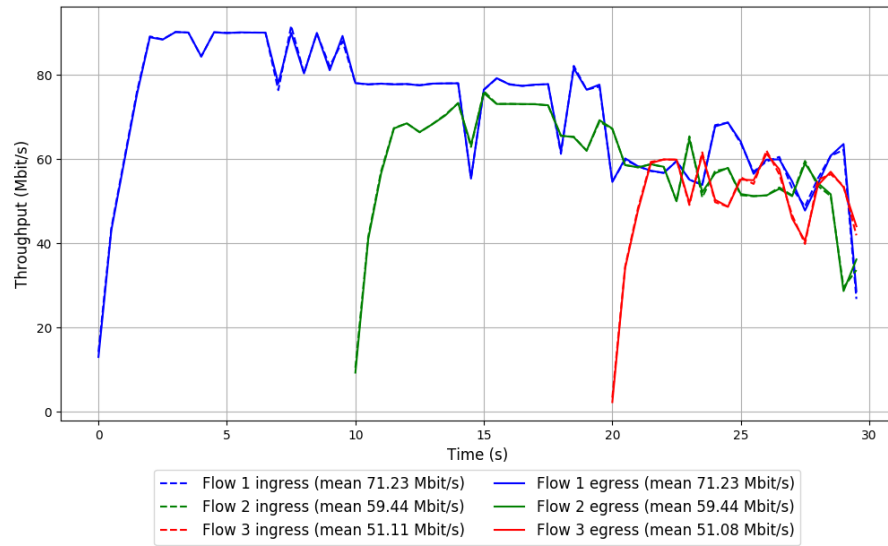
Run 5: Statistics of QUIC Cubic

Start at: 2018-01-02 12:45:16  
End at: 2018-01-02 12:45:46  
Local clock offset: 1.448 ms  
Remote clock offset: -1.364 ms

# Below is generated by plot.py at 2018-01-02 17:37:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 127.37 Mbit/s  
95th percentile per-packet one-way delay: 18.763 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 71.23 Mbit/s  
95th percentile per-packet one-way delay: 17.414 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 59.44 Mbit/s  
95th percentile per-packet one-way delay: 17.445 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 51.08 Mbit/s  
95th percentile per-packet one-way delay: 18.894 ms  
Loss rate: 0.00%



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

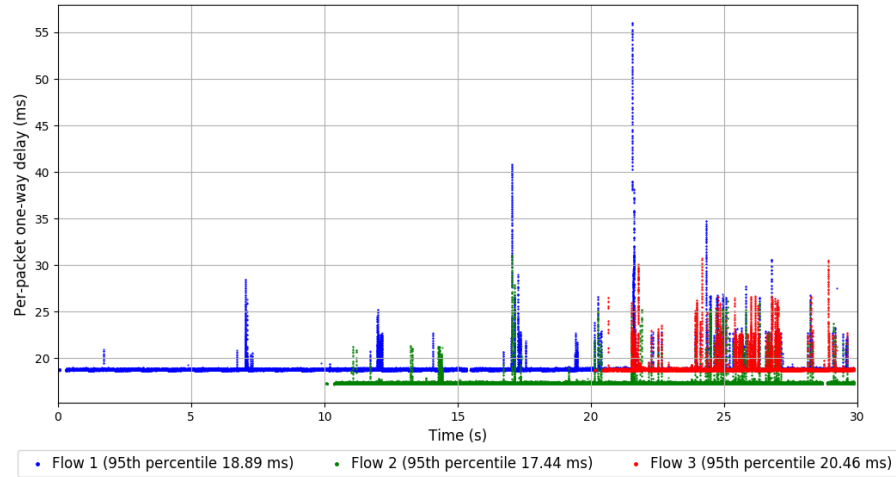
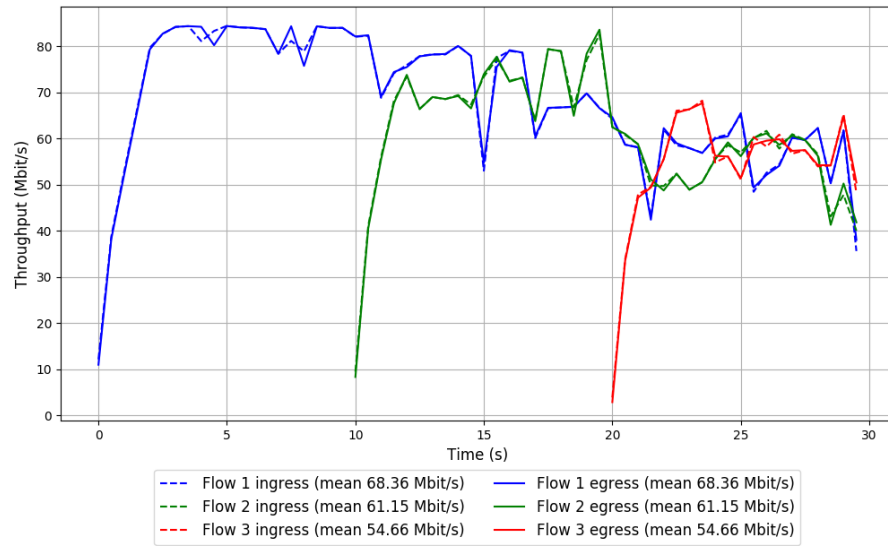


Run 6: Statistics of QUIC Cubic

Start at: 2018-01-02 13:07:28  
End at: 2018-01-02 13:07:58  
Local clock offset: 1.521 ms  
Remote clock offset: -1.374 ms

# Below is generated by plot.py at 2018-01-02 17:37:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 126.86 Mbit/s  
95th percentile per-packet one-way delay: 18.880 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 68.36 Mbit/s  
95th percentile per-packet one-way delay: 18.890 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 61.15 Mbit/s  
95th percentile per-packet one-way delay: 17.440 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 54.66 Mbit/s  
95th percentile per-packet one-way delay: 20.460 ms  
Loss rate: 0.00%

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

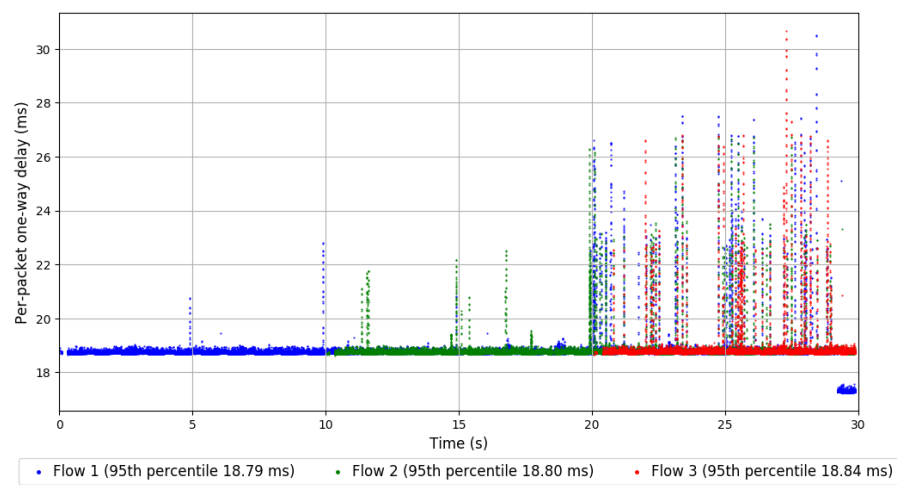
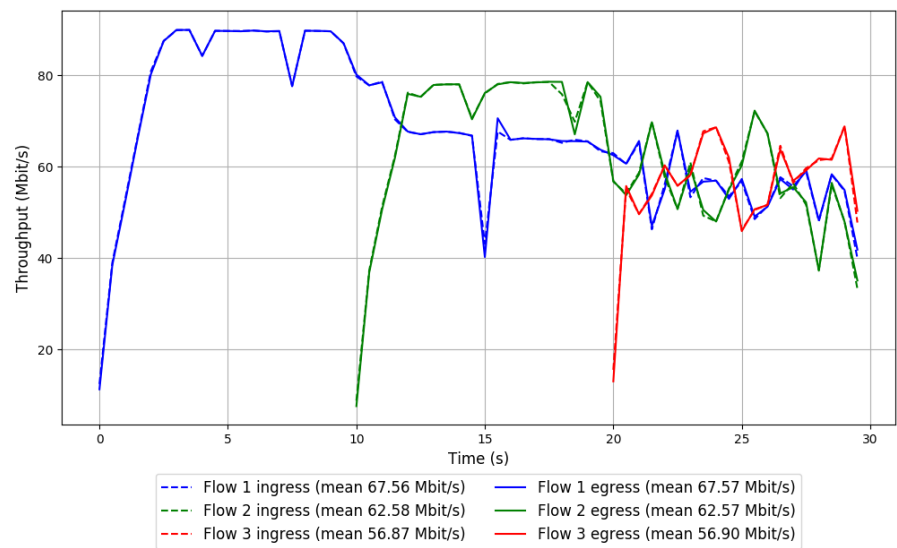


Run 7: Statistics of QUIC Cubic

Start at: 2018-01-02 13:29:22  
End at: 2018-01-02 13:29:52  
Local clock offset: 1.561 ms  
Remote clock offset: -1.448 ms

# Below is generated by plot.py at 2018-01-02 17:37:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 127.80 Mbit/s  
95th percentile per-packet one-way delay: 18.803 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 67.57 Mbit/s  
95th percentile per-packet one-way delay: 18.793 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 62.57 Mbit/s  
95th percentile per-packet one-way delay: 18.803 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 56.90 Mbit/s  
95th percentile per-packet one-way delay: 18.836 ms  
Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link

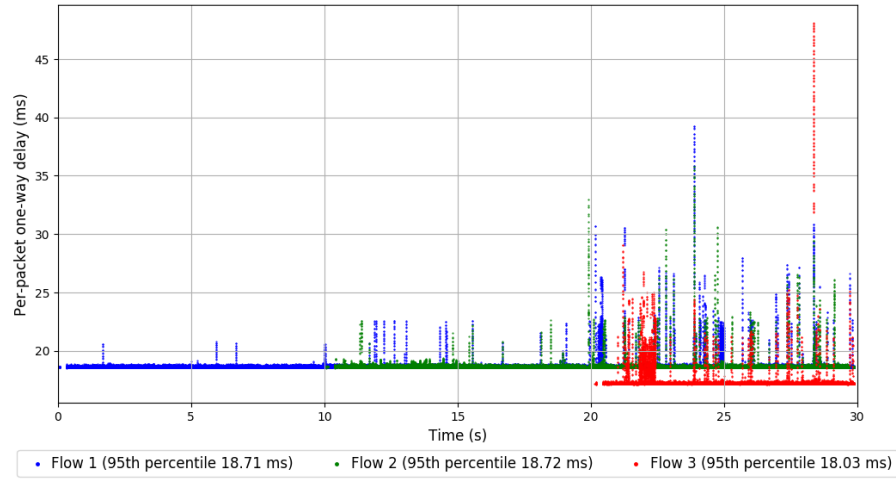
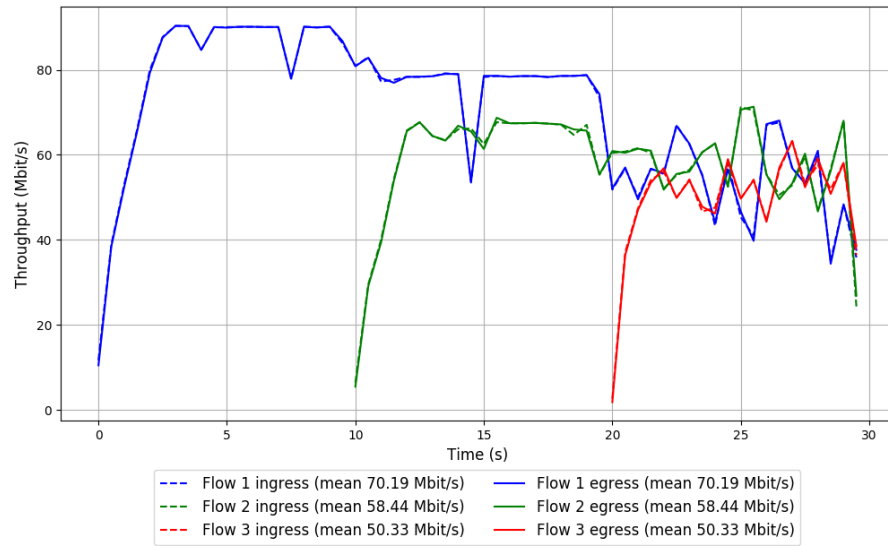


Run 8: Statistics of QUIC Cubic

Start at: 2018-01-02 13:51:31  
End at: 2018-01-02 13:52:01  
Local clock offset: 1.574 ms  
Remote clock offset: -1.628 ms

# Below is generated by plot.py at 2018-01-02 17:37:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 125.41 Mbit/s  
95th percentile per-packet one-way delay: 18.708 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 70.19 Mbit/s  
95th percentile per-packet one-way delay: 18.707 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 58.44 Mbit/s  
95th percentile per-packet one-way delay: 18.717 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 50.33 Mbit/s  
95th percentile per-packet one-way delay: 18.031 ms  
Loss rate: 0.00%

# Run 8: Report of QUIC Cubic — Data Link



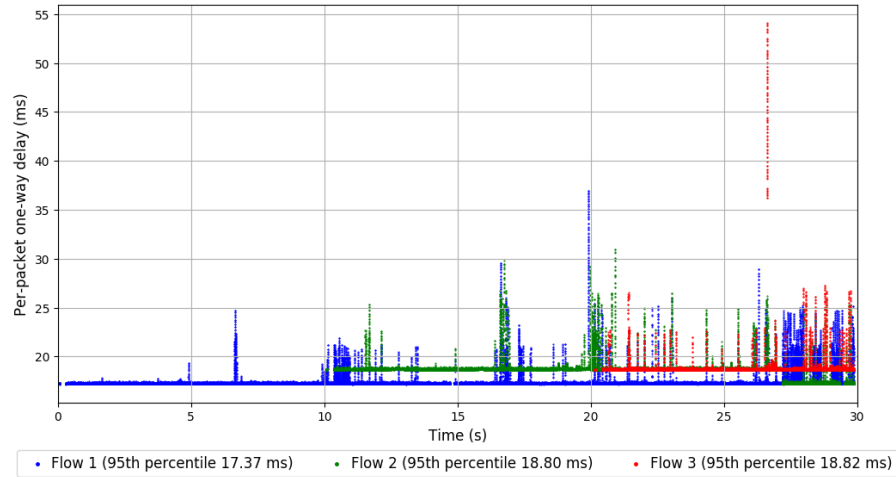
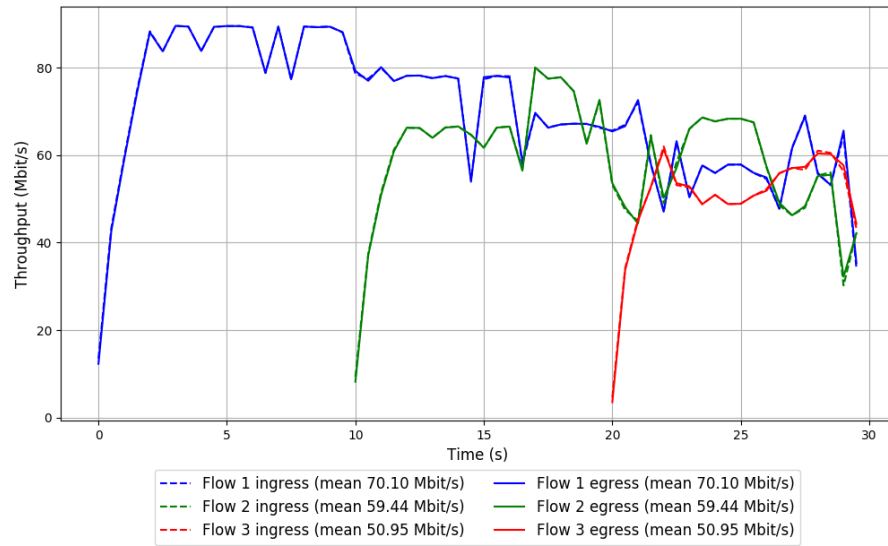
Run 9: Statistics of QUIC Cubic

Start at: 2018-01-02 14:13:23  
End at: 2018-01-02 14:13:53  
Local clock offset: 1.514 ms  
Remote clock offset: -1.513 ms

# Below is generated by plot.py at 2018-01-02 17:37:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 126.25 Mbit/s  
95th percentile per-packet one-way delay: 18.760 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 70.10 Mbit/s  
95th percentile per-packet one-way delay: 17.372 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 59.44 Mbit/s  
95th percentile per-packet one-way delay: 18.802 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 50.95 Mbit/s  
95th percentile per-packet one-way delay: 18.819 ms  
Loss rate: 0.00%



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

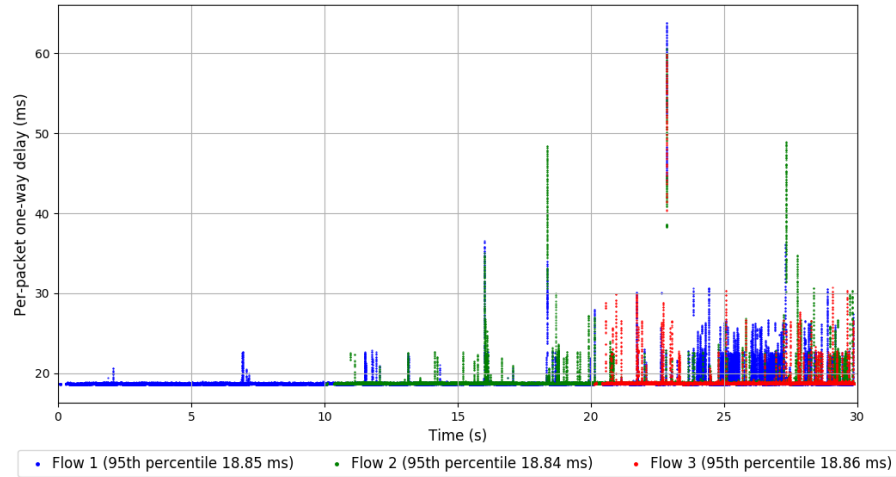
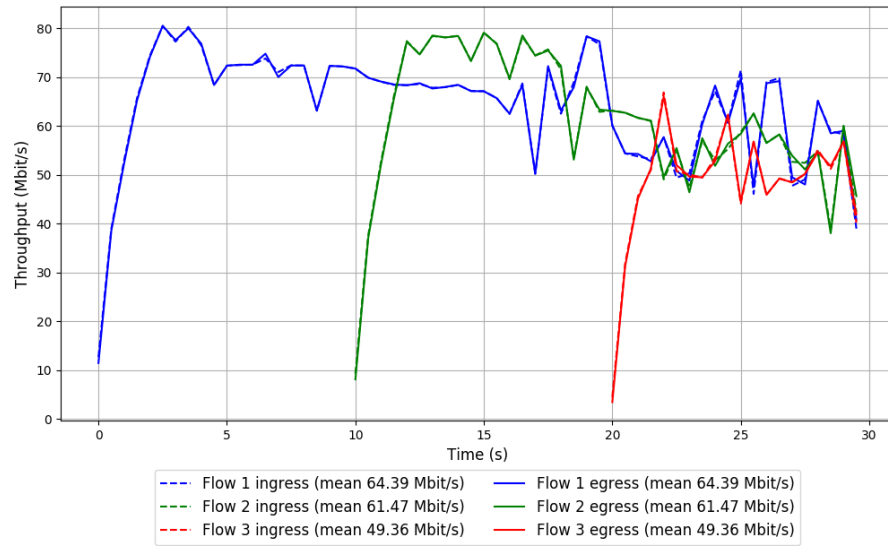


Run 10: Statistics of QUIC Cubic

Start at: 2018-01-02 14:35:46  
End at: 2018-01-02 14:36:16  
Local clock offset: 1.45 ms  
Remote clock offset: -1.514 ms

# Below is generated by plot.py at 2018-01-02 17:37:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 121.38 Mbit/s  
95th percentile per-packet one-way delay: 18.849 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 64.39 Mbit/s  
95th percentile per-packet one-way delay: 18.850 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 61.47 Mbit/s  
95th percentile per-packet one-way delay: 18.843 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 49.36 Mbit/s  
95th percentile per-packet one-way delay: 18.860 ms  
Loss rate: 0.00%

# Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of SReAM

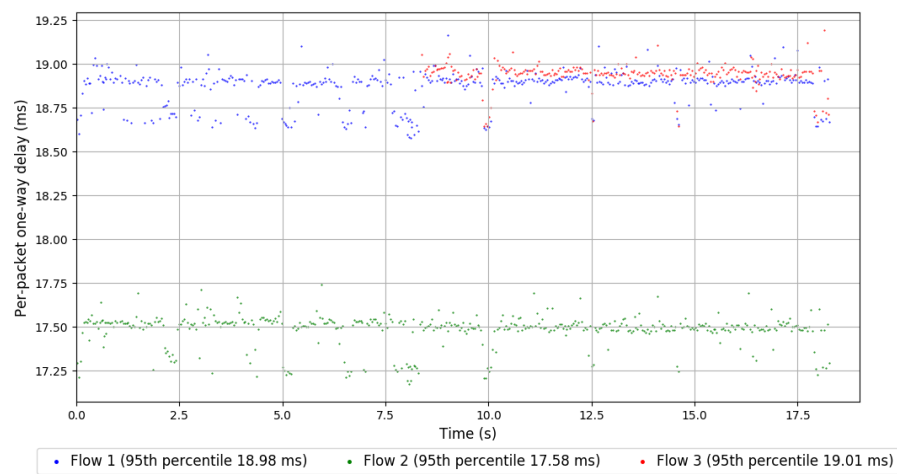
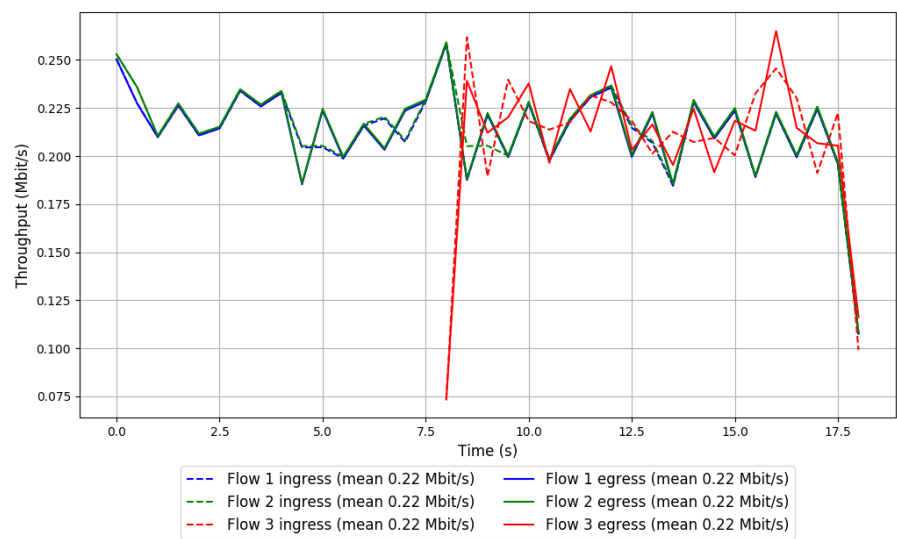
Start at: 2018-01-02 11:03:45

End at: 2018-01-02 11:04:15

Local clock offset: 1.355 ms

Remote clock offset: -1.242 ms

Run 1: Report of SReAM — Data Link

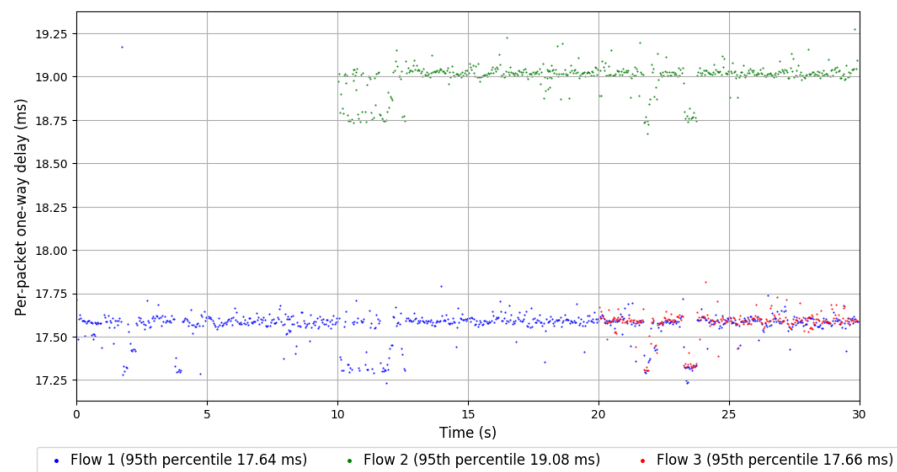
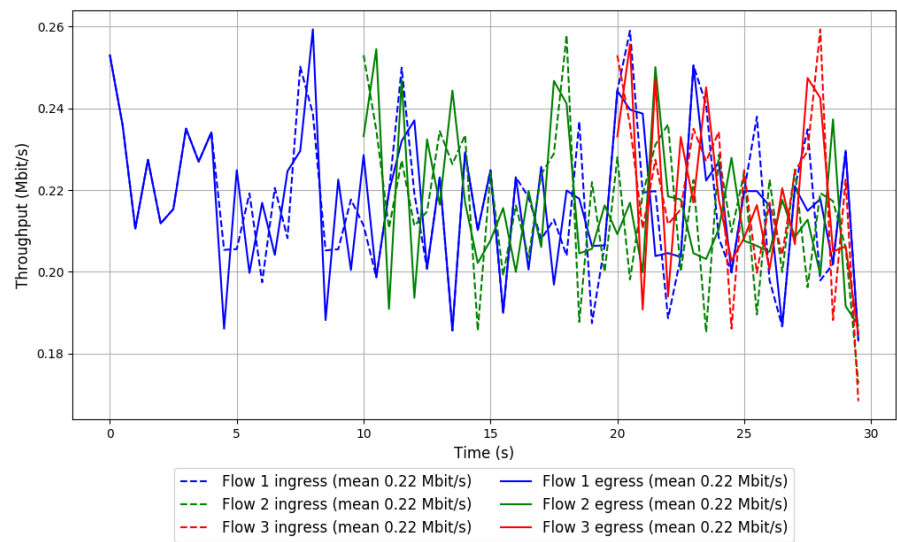


Run 2: Statistics of SReAM

Start at: 2018-01-02 11:26:05  
End at: 2018-01-02 11:26:35  
Local clock offset: 1.333 ms  
Remote clock offset: -1.556 ms

# Below is generated by plot.py at 2018-01-02 17:37:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 19.043 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 17.642 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.078 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 17.663 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-01-02 11:48:20

End at: 2018-01-02 11:48:50

Local clock offset: 1.511 ms

Remote clock offset: -1.35 ms

# Below is generated by plot.py at 2018-01-02 17:37:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.019 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.675 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.046 ms

Loss rate: 0.00%

-- Flow 3:

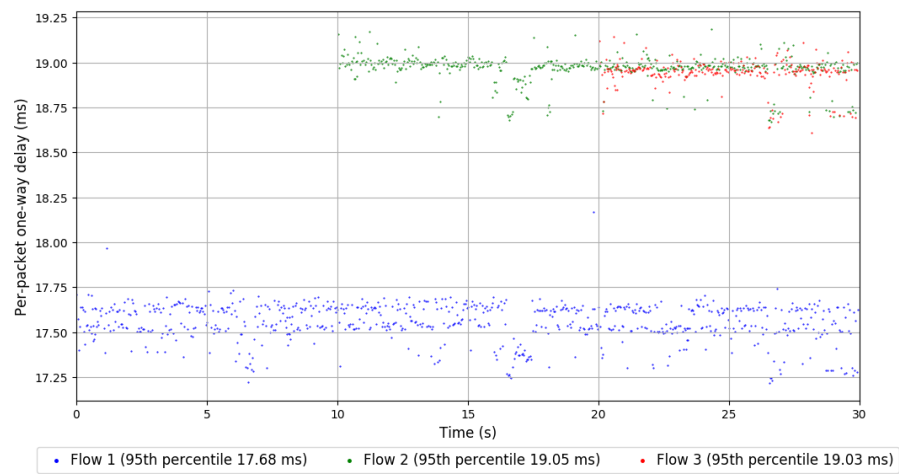
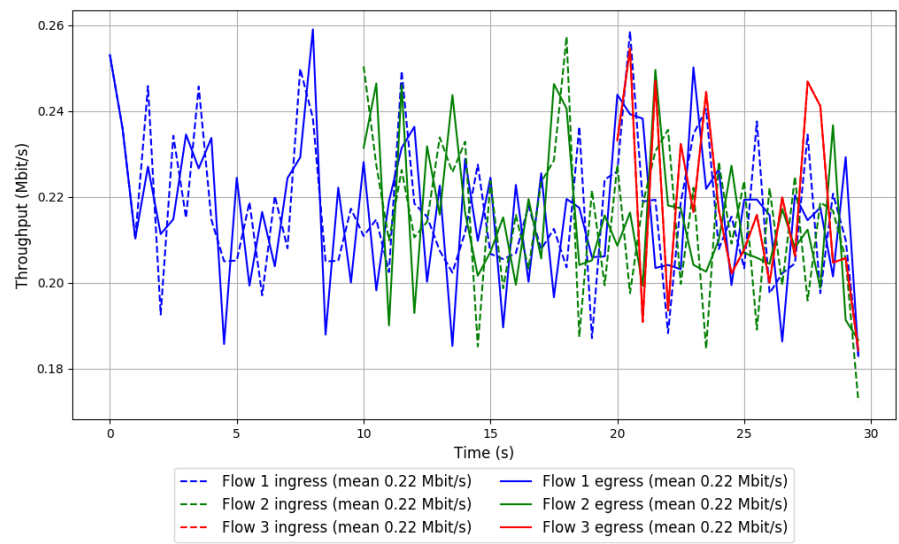
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.026 ms

Loss rate: 0.00%



Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

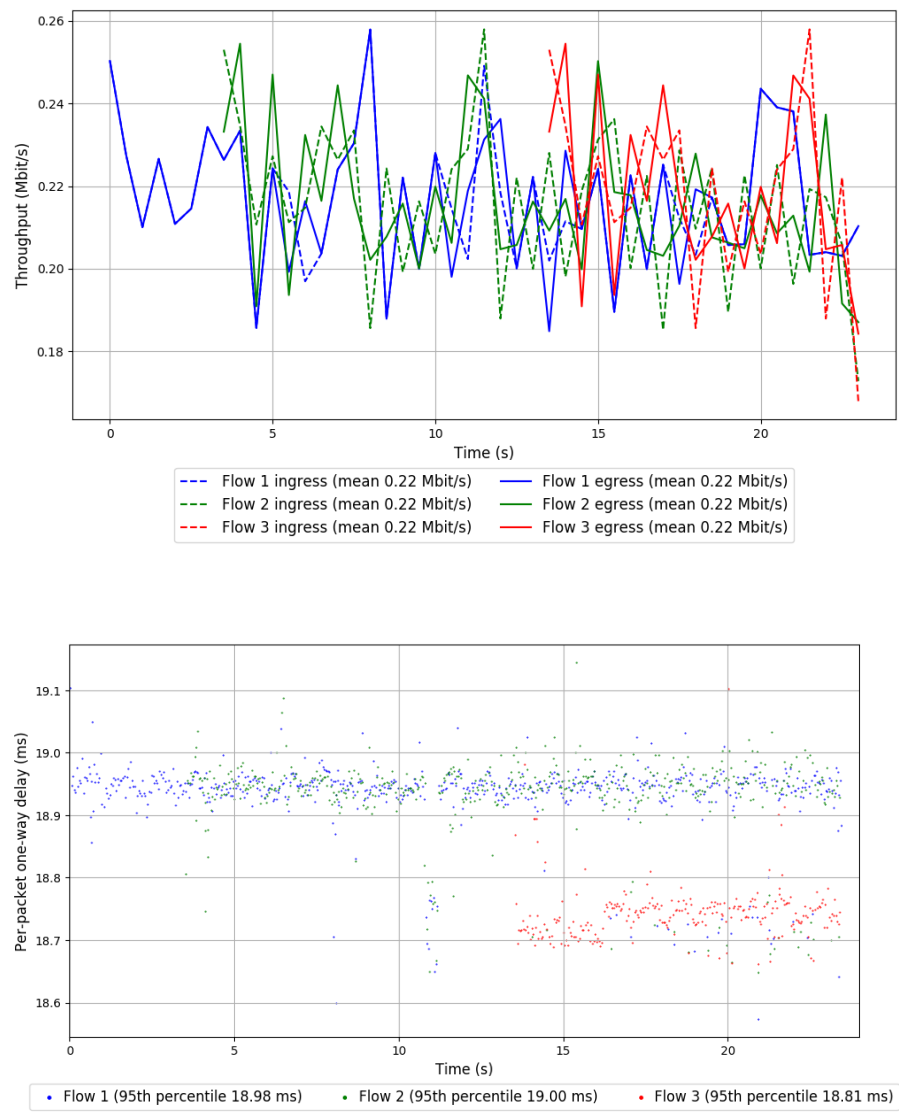
Start at: 2018-01-02 12:10:28

End at: 2018-01-02 12:10:58

Local clock offset: 1.584 ms

Remote clock offset: -1.534 ms

Run 4: Report of SReAM — Data Link

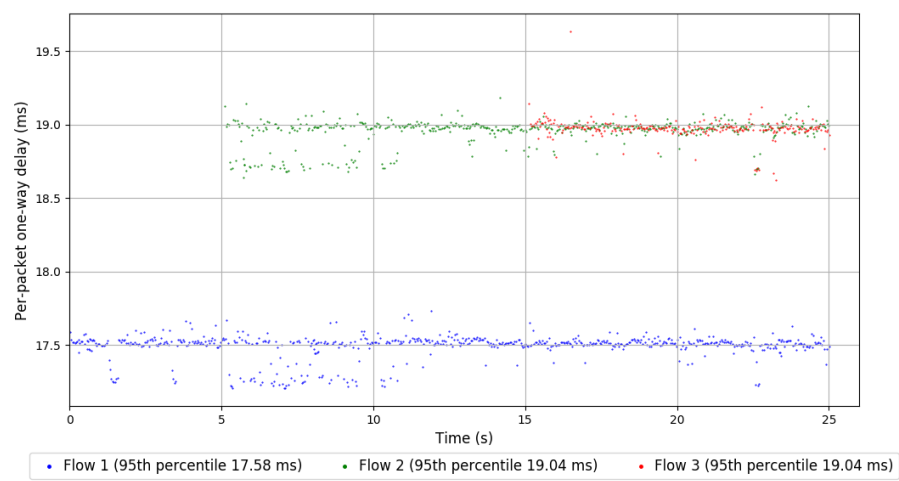
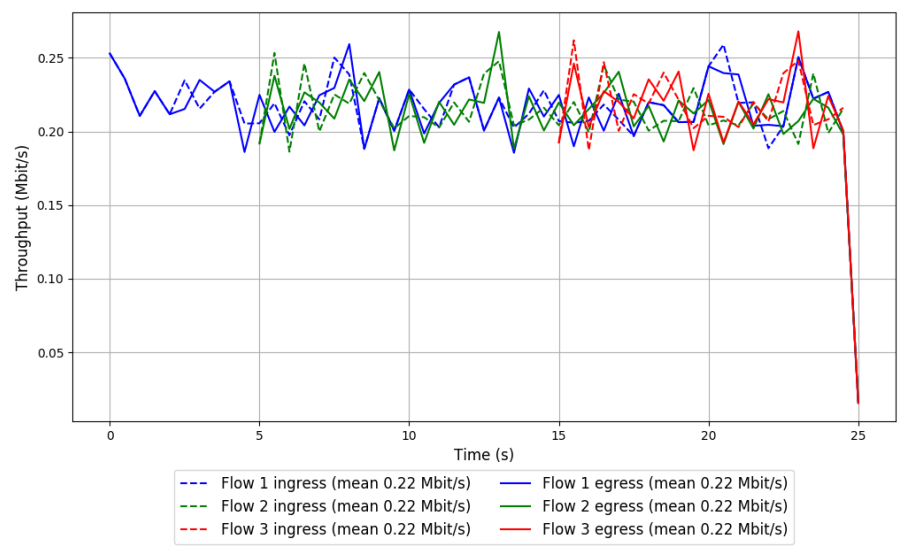


Run 5: Statistics of SReAM

Start at: 2018-01-02 12:32:43  
End at: 2018-01-02 12:33:13  
Local clock offset: 1.565 ms  
Remote clock offset: -1.419 ms

# Below is generated by plot.py at 2018-01-02 17:37:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.48 Mbit/s  
95th percentile per-packet one-way delay: 19.014 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 17.578 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.035 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.039 ms  
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

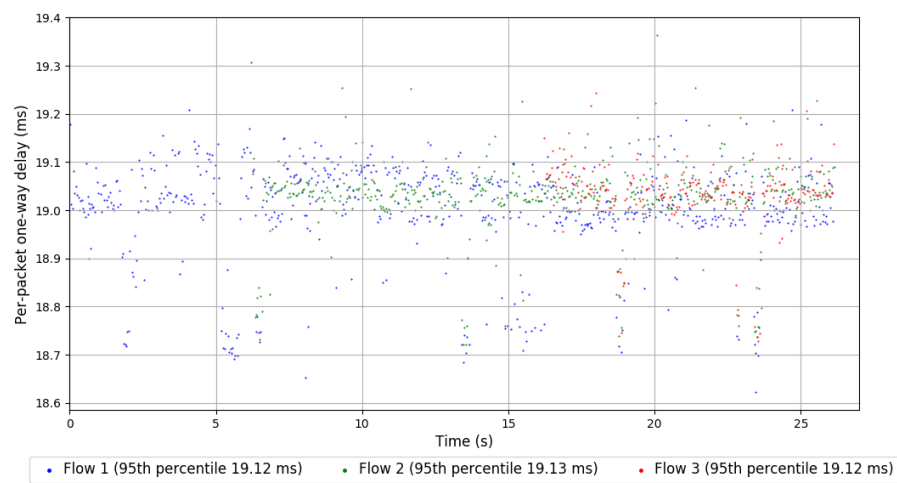
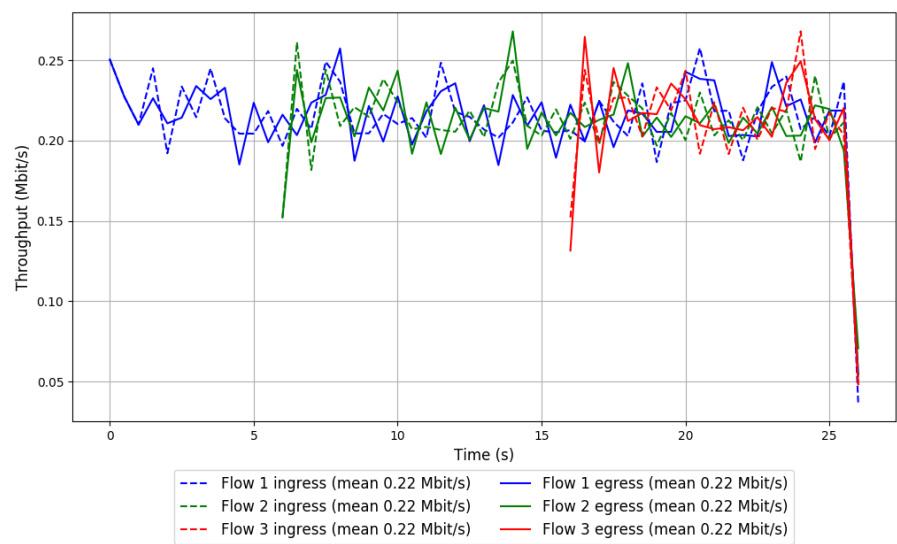


Run 6: Statistics of SReAM

Start at: 2018-01-02 12:55:08  
End at: 2018-01-02 12:55:38  
Local clock offset: 1.468 ms  
Remote clock offset: -1.281 ms

# Below is generated by plot.py at 2018-01-02 17:37:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.47 Mbit/s  
95th percentile per-packet one-way delay: 19.119 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.117 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.130 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.118 ms  
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



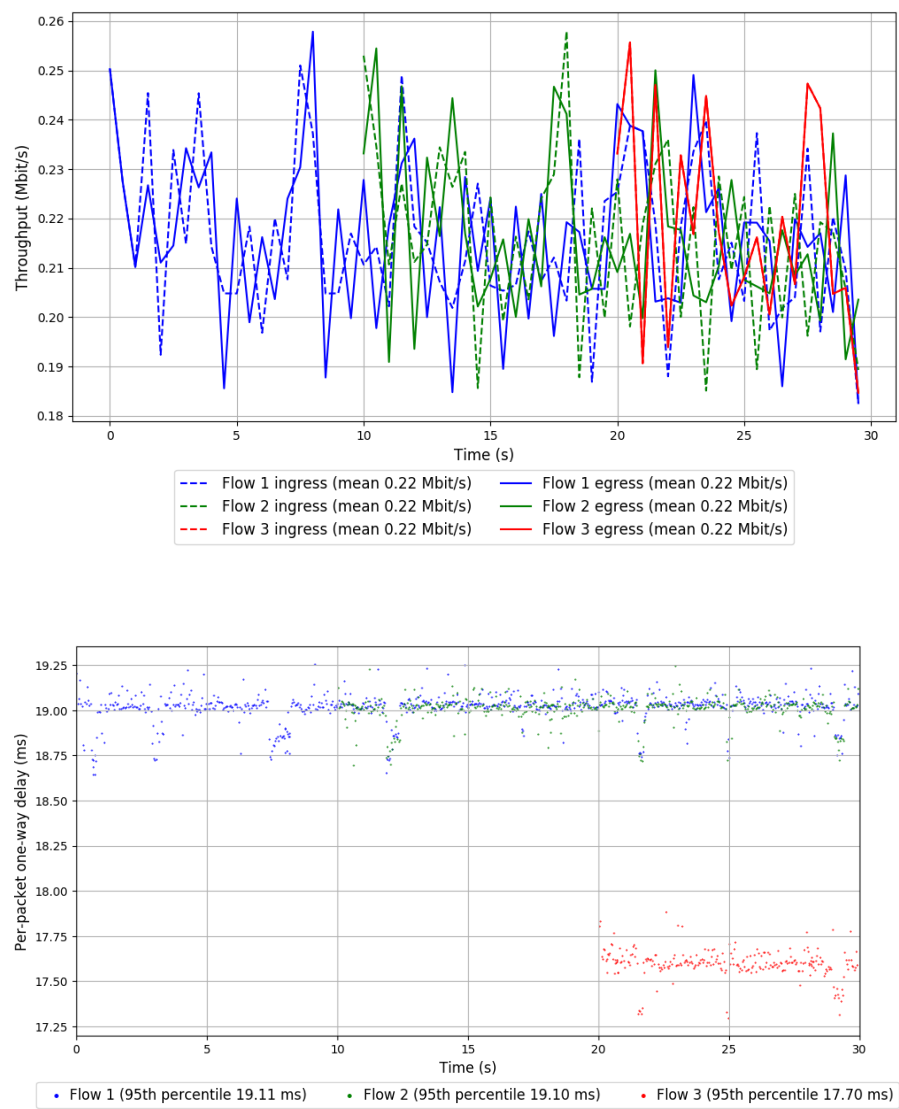
Run 7: Statistics of SReAM

Start at: 2018-01-02 13:17:13  
End at: 2018-01-02 13:17:43  
Local clock offset: 1.54 ms  
Remote clock offset: -1.437 ms

# Below is generated by plot.py at 2018-01-02 17:37:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 19.100 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.114 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.096 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 17.700 ms  
Loss rate: 0.00%



Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

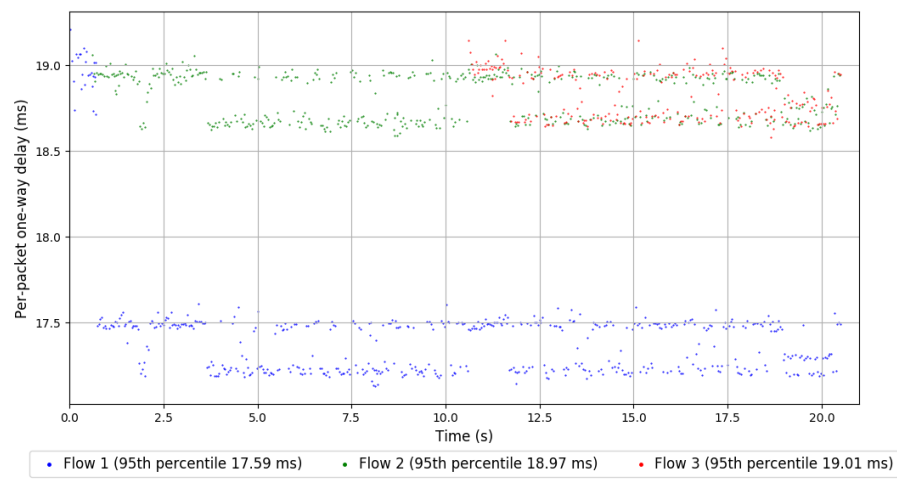
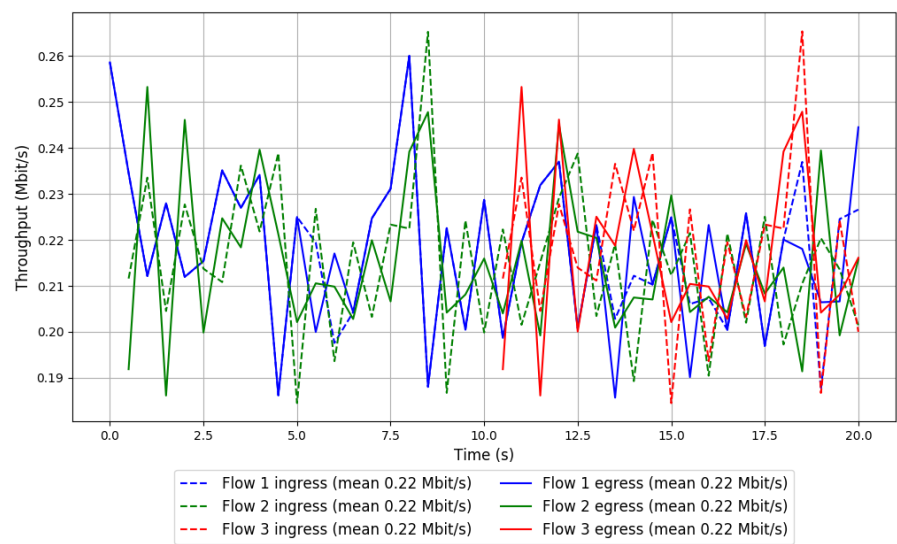
Start at: 2018-01-02 13:39:08

End at: 2018-01-02 13:39:38

Local clock offset: 1.589 ms

Remote clock offset: -1.448 ms

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

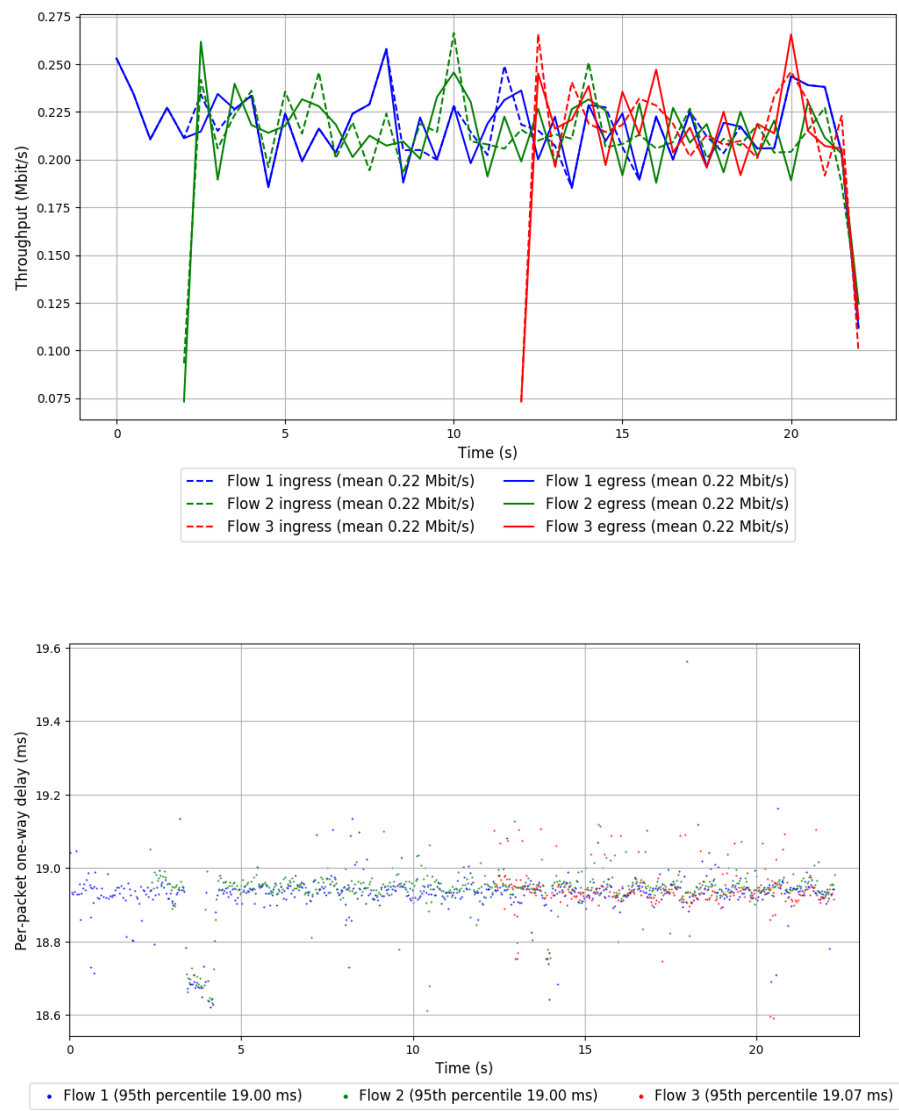
Start at: 2018-01-02 14:01:11

End at: 2018-01-02 14:01:41

Local clock offset: 1.532 ms

Remote clock offset: -1.616 ms

Run 9: Report of SReAM — Data Link

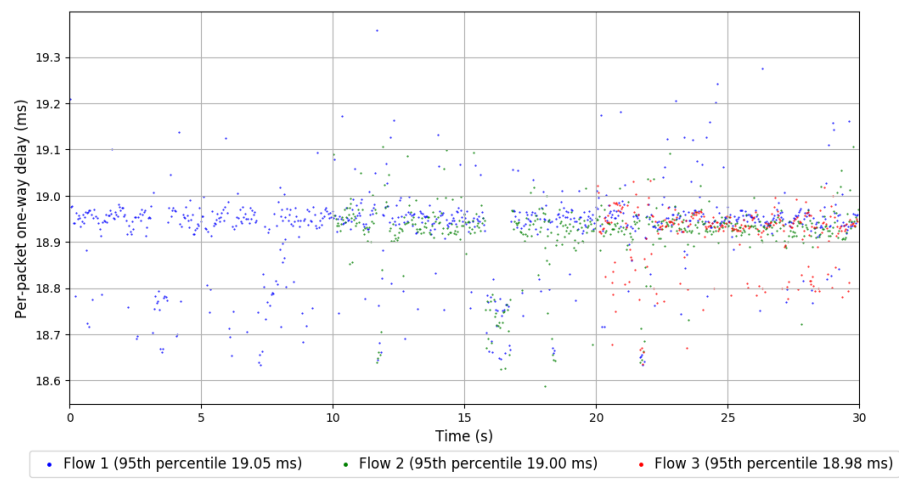
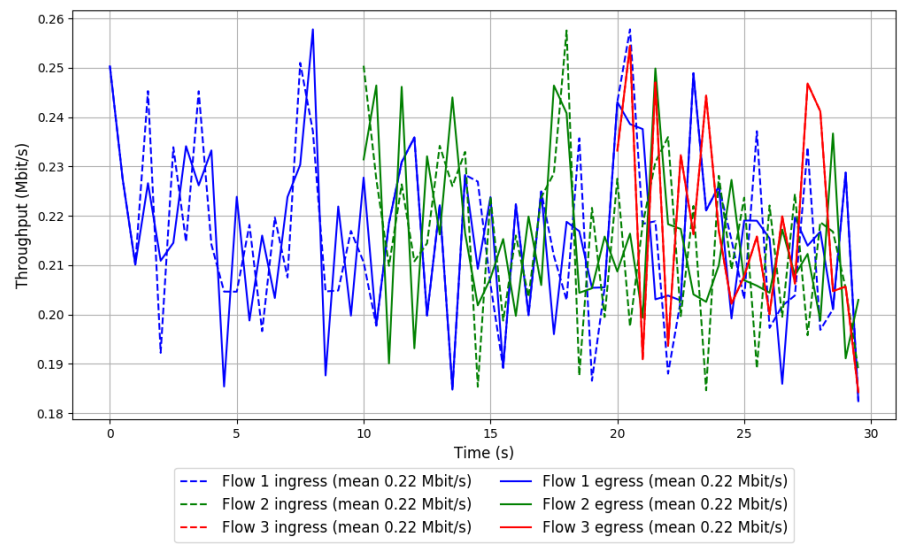


Run 10: Statistics of SCReAM

Start at: 2018-01-02 14:23:18  
End at: 2018-01-02 14:23:48  
Local clock offset: 1.486 ms  
Remote clock offset: -1.451 ms

# Below is generated by plot.py at 2018-01-02 17:37:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 19.008 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.046 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 18.997 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 18.983 ms  
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



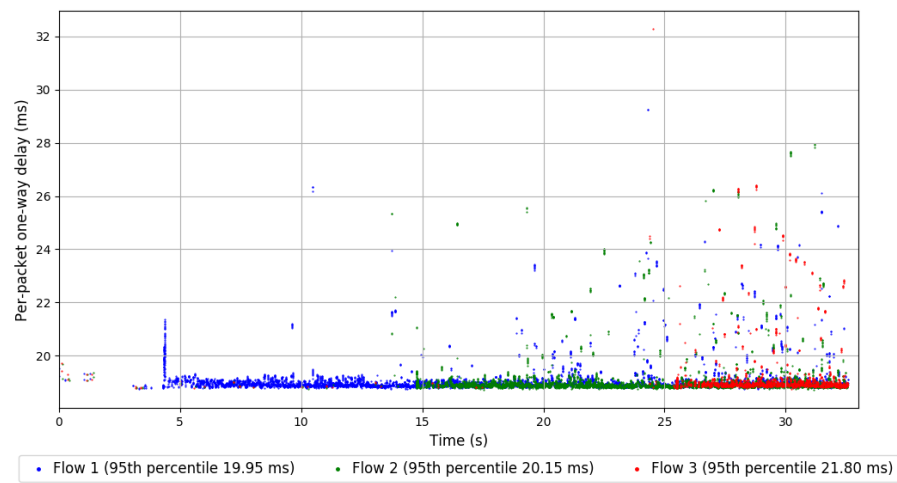
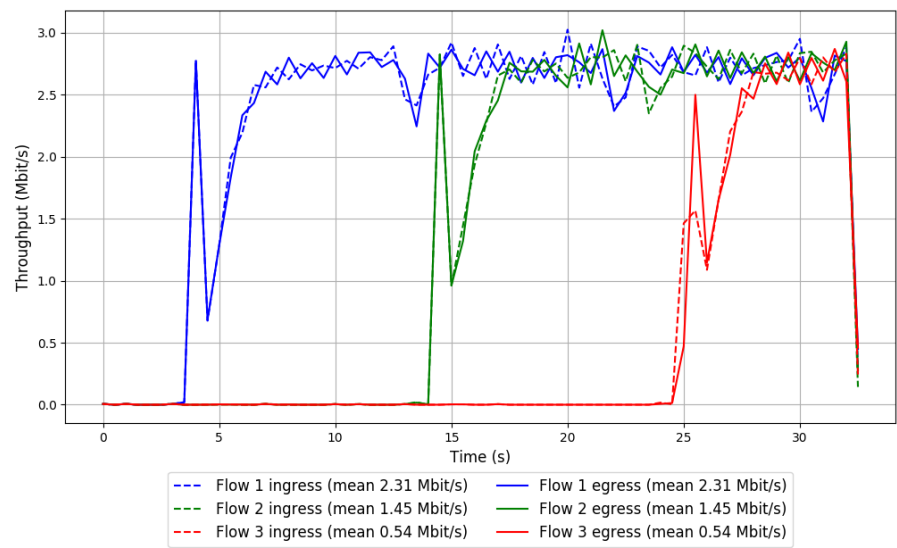
Run 1: Statistics of WebRTC media

Start at: 2018-01-02 11:01:11  
End at: 2018-01-02 11:01:41  
Local clock offset: 1.232 ms  
Remote clock offset: -1.057 ms

# Below is generated by plot.py at 2018-01-02 17:37:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.29 Mbit/s  
95th percentile per-packet one-way delay: 20.176 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.31 Mbit/s  
95th percentile per-packet one-way delay: 19.953 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.45 Mbit/s  
95th percentile per-packet one-way delay: 20.147 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.54 Mbit/s  
95th percentile per-packet one-way delay: 21.798 ms  
Loss rate: 0.00%



Run 1: Report of WebRTC media — Data Link

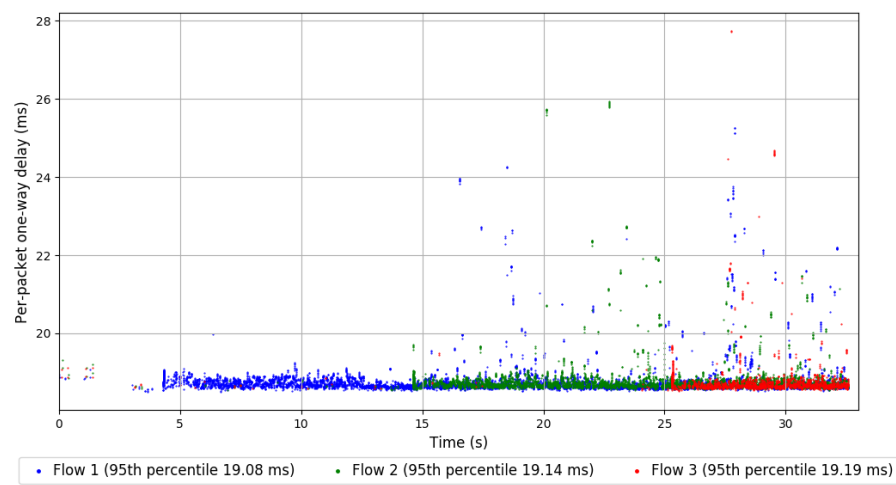
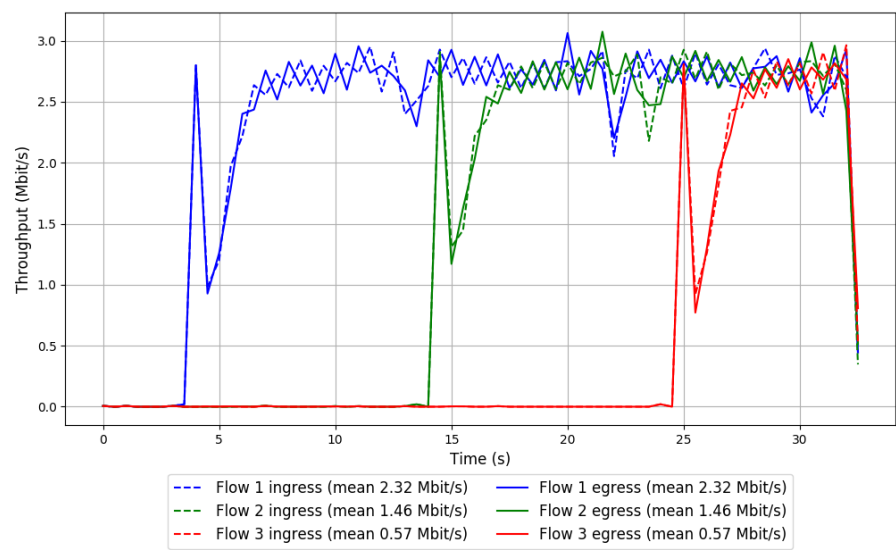


Run 2: Statistics of WebRTC media

Start at: 2018-01-02 11:23:24  
End at: 2018-01-02 11:23:54  
Local clock offset: 1.421 ms  
Remote clock offset: -1.579 ms

# Below is generated by plot.py at 2018-01-02 17:37:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.34 Mbit/s  
95th percentile per-packet one-way delay: 19.105 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.32 Mbit/s  
95th percentile per-packet one-way delay: 19.079 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.46 Mbit/s  
95th percentile per-packet one-way delay: 19.145 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.57 Mbit/s  
95th percentile per-packet one-way delay: 19.189 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-02 11:45:45

End at: 2018-01-02 11:46:15

Local clock offset: 1.395 ms

Remote clock offset: -1.33 ms

# Below is generated by plot.py at 2018-01-02 17:37:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.31 Mbit/s

95th percentile per-packet one-way delay: 19.405 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 19.310 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.46 Mbit/s

95th percentile per-packet one-way delay: 19.573 ms

Loss rate: 0.00%

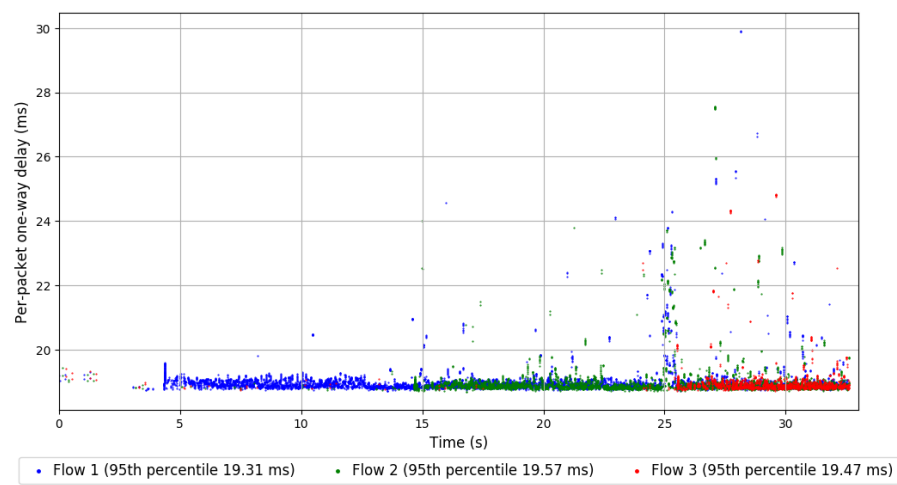
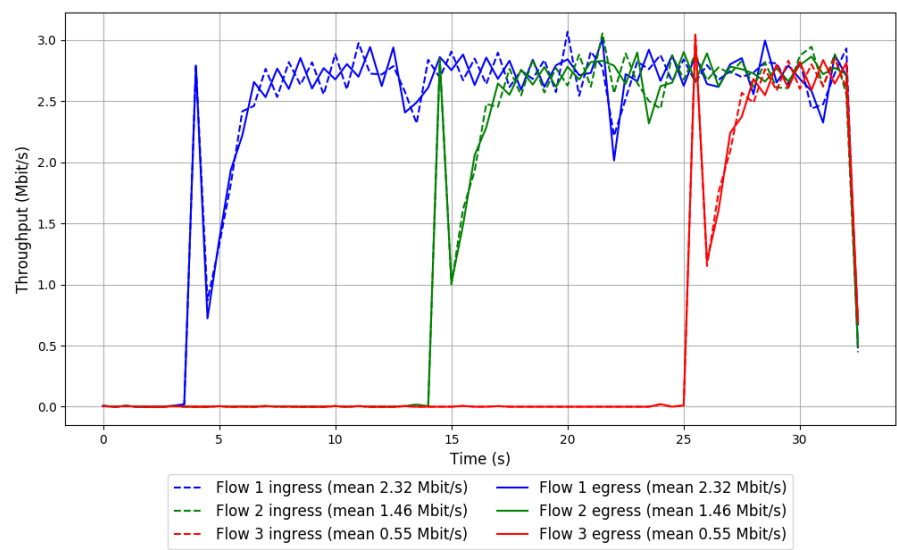
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 19.466 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

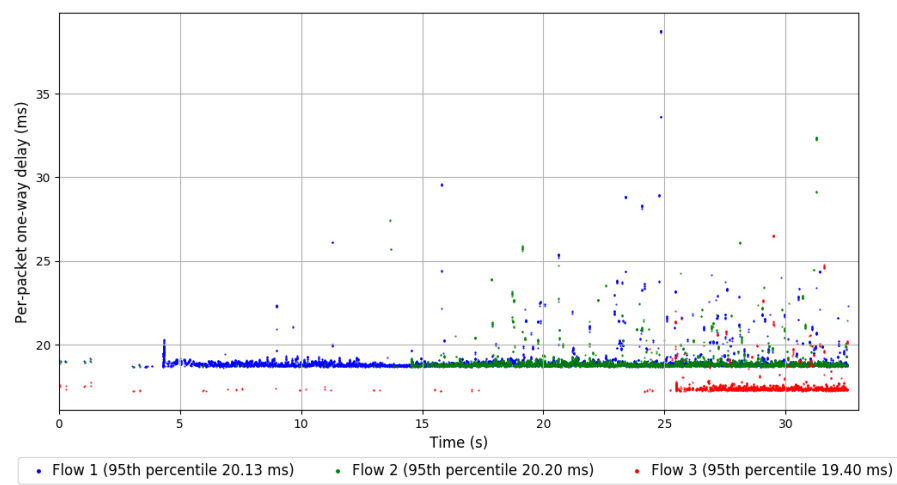
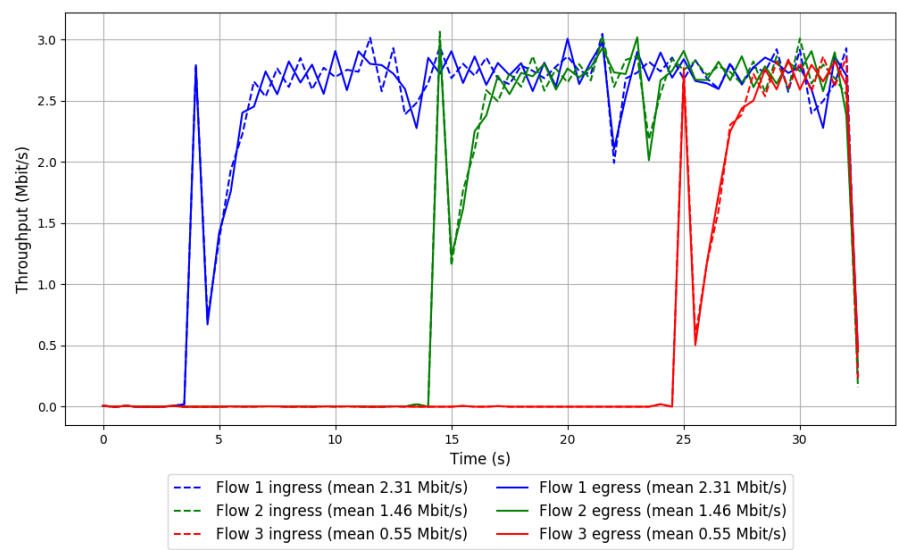


Run 4: Statistics of WebRTC media

Start at: 2018-01-02 12:07:49  
End at: 2018-01-02 12:08:19  
Local clock offset: 1.51 ms  
Remote clock offset: -1.538 ms

```
# Below is generated by plot.py at 2018-01-02 17:37:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 20.060 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 20.134 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 20.203 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 19.403 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



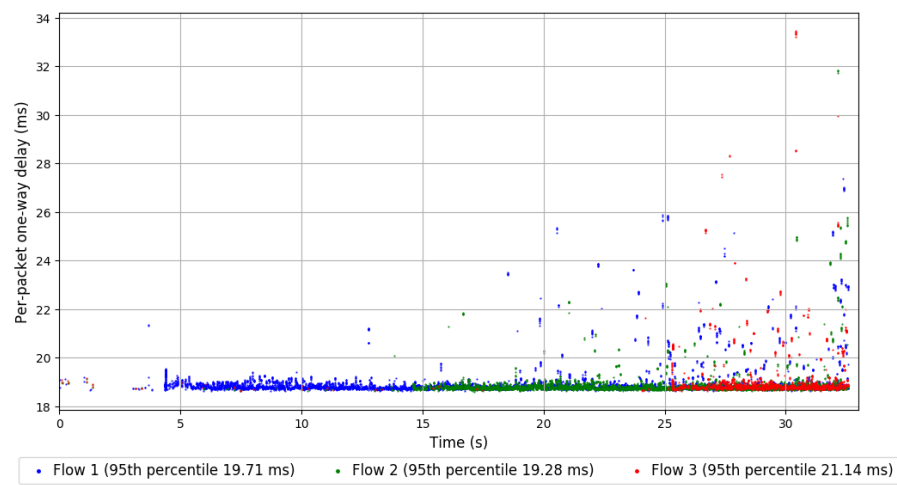
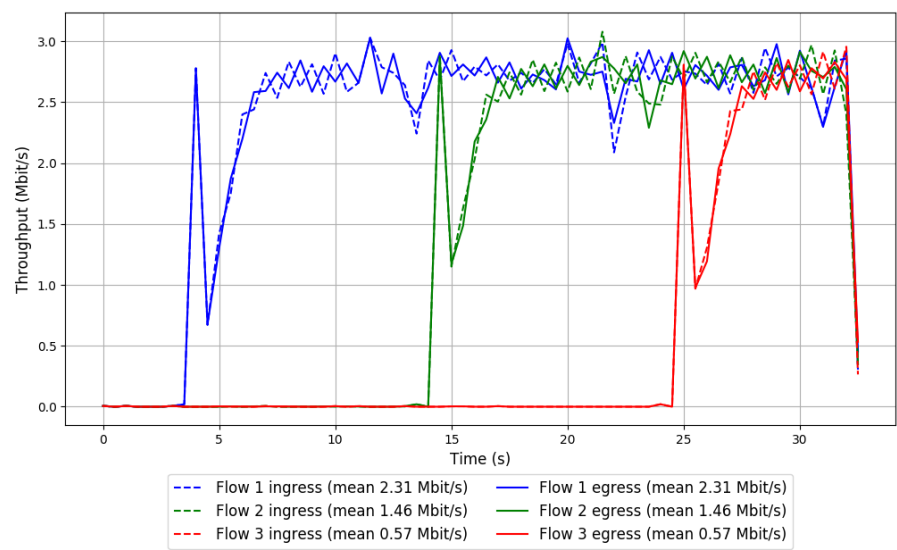
Run 5: Statistics of WebRTC media

Start at: 2018-01-02 12:30:00  
End at: 2018-01-02 12:30:30  
Local clock offset: 1.483 ms  
Remote clock offset: -1.492 ms

# Below is generated by plot.py at 2018-01-02 17:37:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.33 Mbit/s  
95th percentile per-packet one-way delay: 20.036 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.31 Mbit/s  
95th percentile per-packet one-way delay: 19.709 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.46 Mbit/s  
95th percentile per-packet one-way delay: 19.277 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.57 Mbit/s  
95th percentile per-packet one-way delay: 21.135 ms  
Loss rate: 0.00%



Run 5: Report of WebRTC media — Data Link

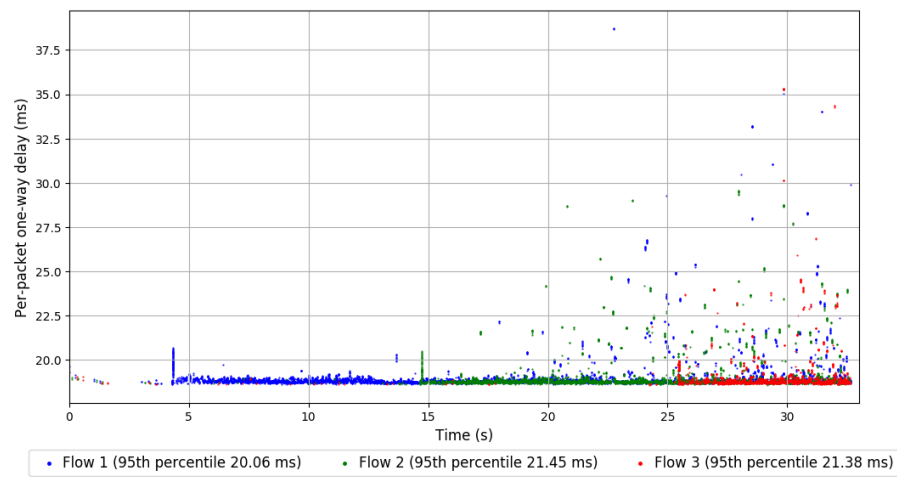
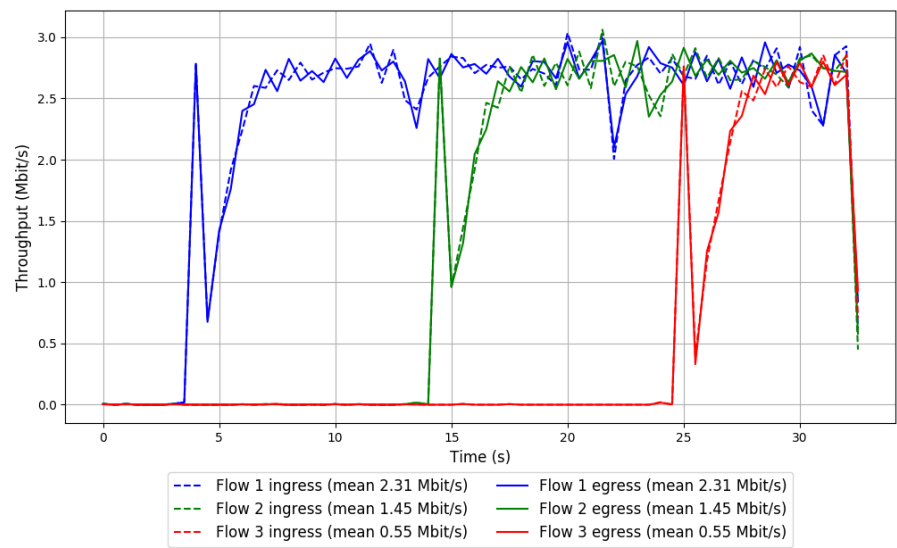


Run 6: Statistics of WebRTC media

Start at: 2018-01-02 12:52:26  
End at: 2018-01-02 12:52:56  
Local clock offset: 1.464 ms  
Remote clock offset: -1.311 ms

# Below is generated by plot.py at 2018-01-02 17:37:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.30 Mbit/s  
95th percentile per-packet one-way delay: 20.668 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.31 Mbit/s  
95th percentile per-packet one-way delay: 20.057 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.45 Mbit/s  
95th percentile per-packet one-way delay: 21.449 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.55 Mbit/s  
95th percentile per-packet one-way delay: 21.375 ms  
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

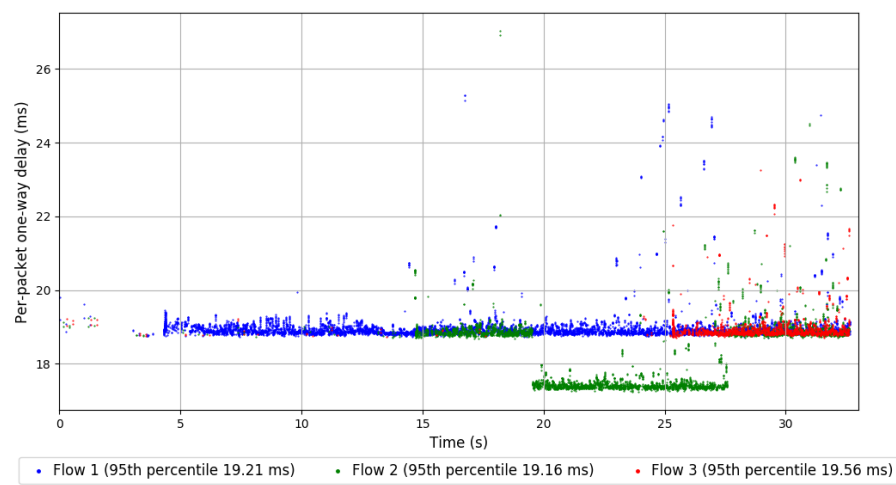
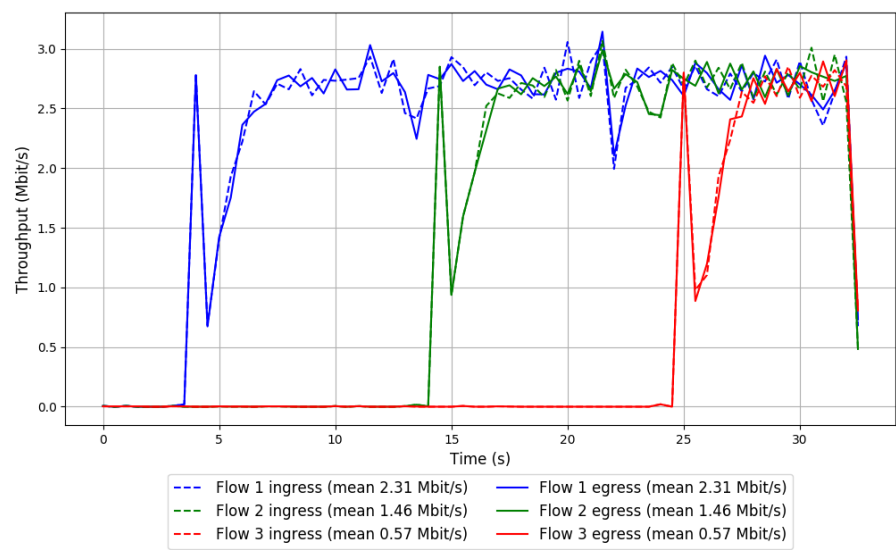


Run 7: Statistics of WebRTC media

Start at: 2018-01-02 13:14:36  
End at: 2018-01-02 13:15:06  
Local clock offset: 1.526 ms  
Remote clock offset: -1.359 ms

# Below is generated by plot.py at 2018-01-02 17:37:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.33 Mbit/s  
95th percentile per-packet one-way delay: 19.228 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.31 Mbit/s  
95th percentile per-packet one-way delay: 19.207 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.46 Mbit/s  
95th percentile per-packet one-way delay: 19.164 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.57 Mbit/s  
95th percentile per-packet one-way delay: 19.563 ms  
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

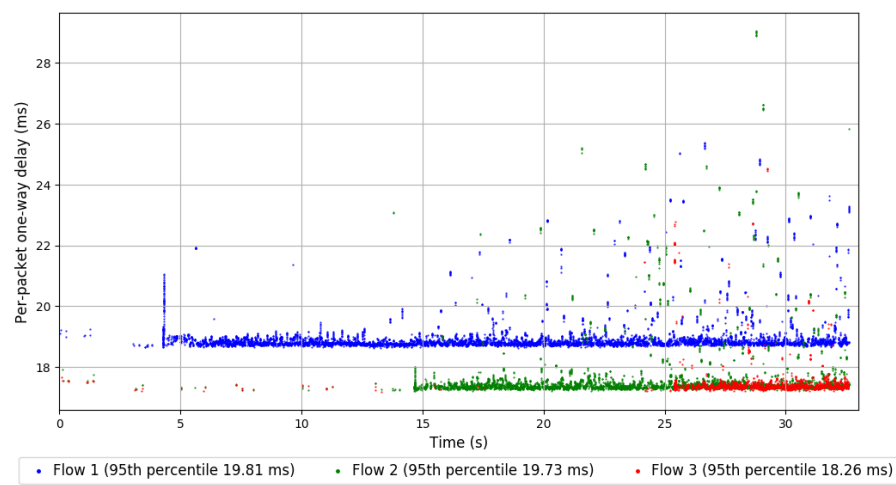


Run 8: Statistics of WebRTC media

Start at: 2018-01-02 13:36:32  
End at: 2018-01-02 13:37:02  
Local clock offset: 1.532 ms  
Remote clock offset: -1.411 ms

# Below is generated by plot.py at 2018-01-02 17:37:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.32 Mbit/s  
95th percentile per-packet one-way delay: 19.666 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.31 Mbit/s  
95th percentile per-packet one-way delay: 19.808 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.46 Mbit/s  
95th percentile per-packet one-way delay: 19.733 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.55 Mbit/s  
95th percentile per-packet one-way delay: 18.261 ms  
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



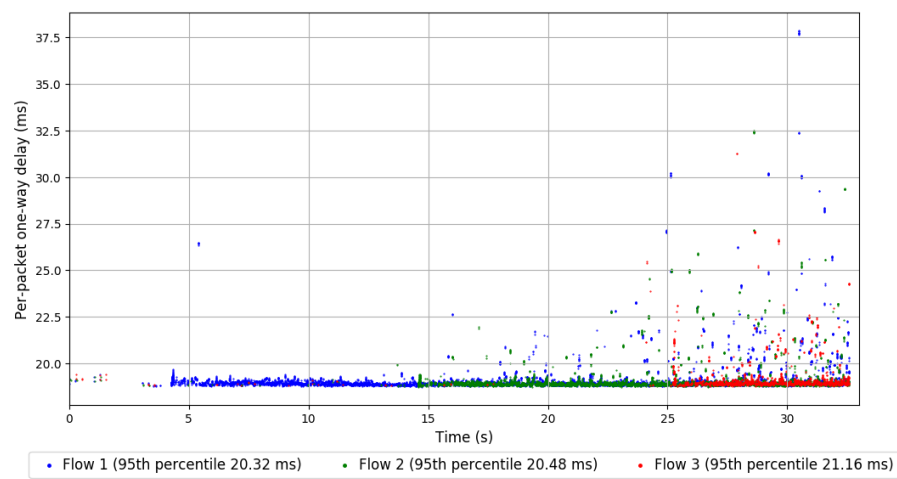
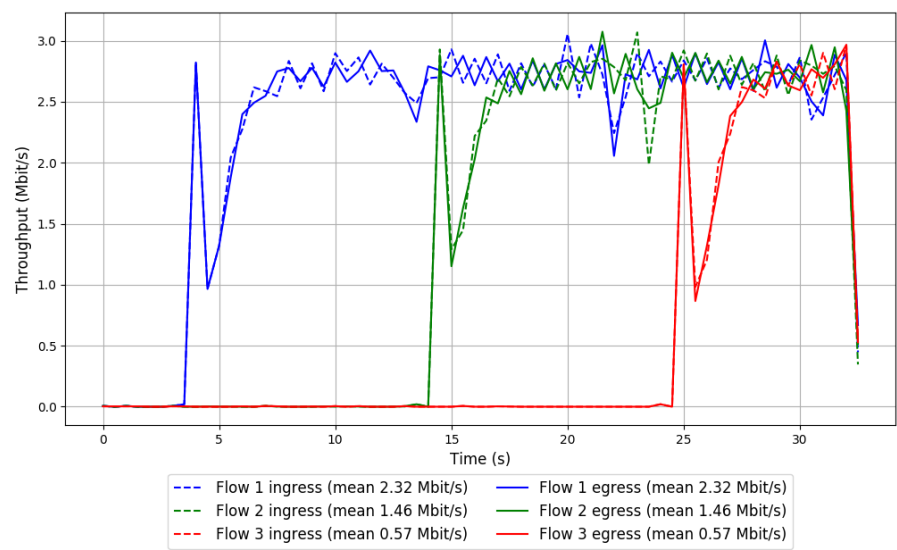
Run 9: Statistics of WebRTC media

Start at: 2018-01-02 13:58:32  
End at: 2018-01-02 13:59:02  
Local clock offset: 1.461 ms  
Remote clock offset: -1.518 ms

# Below is generated by plot.py at 2018-01-02 17:37:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.34 Mbit/s  
95th percentile per-packet one-way delay: 20.568 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.32 Mbit/s  
95th percentile per-packet one-way delay: 20.315 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.46 Mbit/s  
95th percentile per-packet one-way delay: 20.479 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.57 Mbit/s  
95th percentile per-packet one-way delay: 21.164 ms  
Loss rate: 0.00%



Run 9: Report of WebRTC media — Data Link

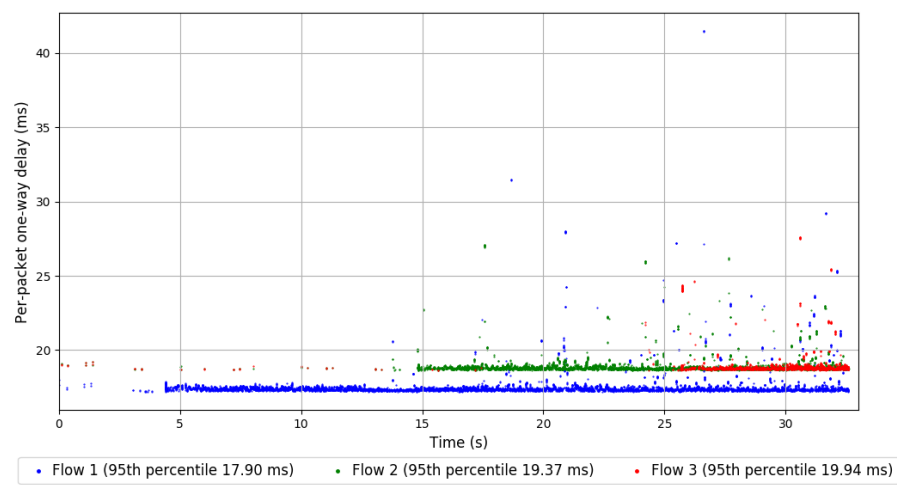
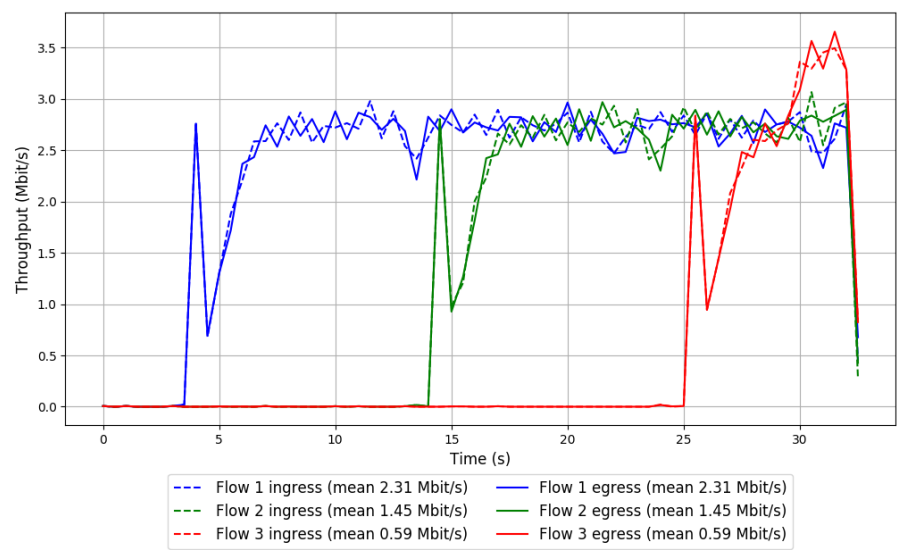


Run 10: Statistics of WebRTC media

Start at: 2018-01-02 14:20:33  
End at: 2018-01-02 14:21:03  
Local clock offset: 1.499 ms  
Remote clock offset: -1.392 ms

# Below is generated by plot.py at 2018-01-02 17:37:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.34 Mbit/s  
95th percentile per-packet one-way delay: 19.151 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 2.31 Mbit/s  
95th percentile per-packet one-way delay: 17.898 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.45 Mbit/s  
95th percentile per-packet one-way delay: 19.372 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.59 Mbit/s  
95th percentile per-packet one-way delay: 19.939 ms  
Loss rate: 0.20%

Run 10: Report of WebRTC media — Data Link

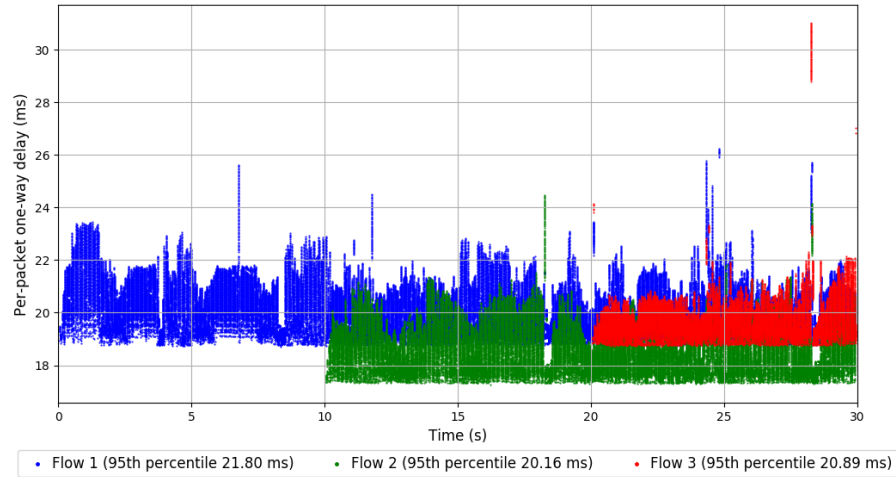
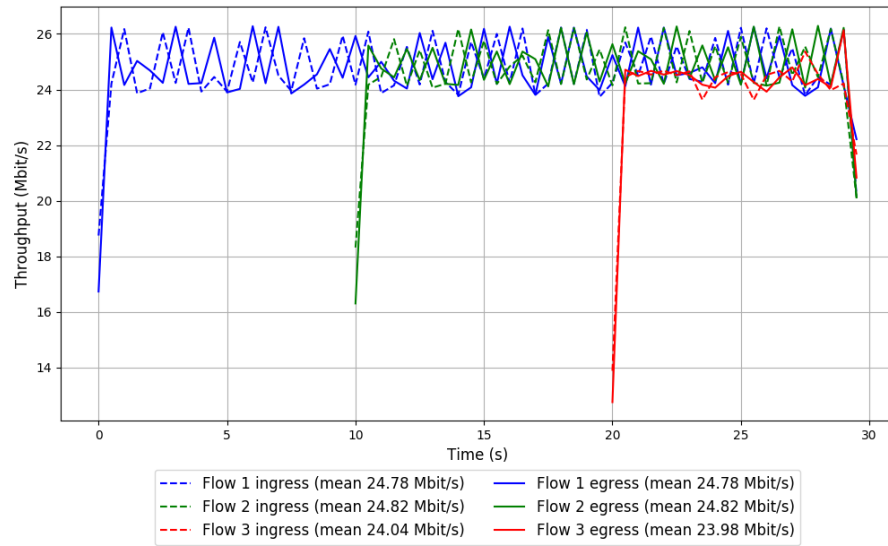


Run 1: Statistics of Sprout

Start at: 2018-01-02 10:58:34  
End at: 2018-01-02 10:59:04  
Local clock offset: 1.206 ms  
Remote clock offset: -1.065 ms

# Below is generated by plot.py at 2018-01-02 17:37:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 49.18 Mbit/s  
95th percentile per-packet one-way delay: 21.453 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 24.78 Mbit/s  
95th percentile per-packet one-way delay: 21.800 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 24.82 Mbit/s  
95th percentile per-packet one-way delay: 20.160 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 23.98 Mbit/s  
95th percentile per-packet one-way delay: 20.891 ms  
Loss rate: 0.17%

## Run 1: Report of Sprout — Data Link

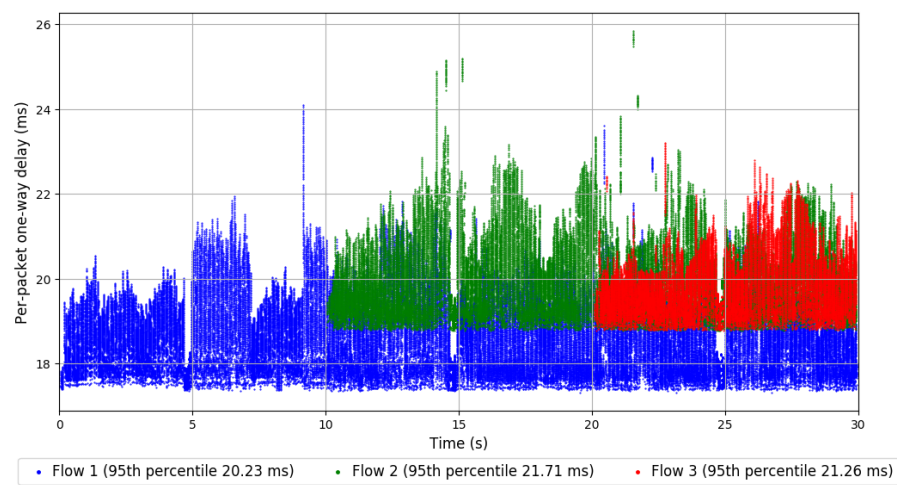
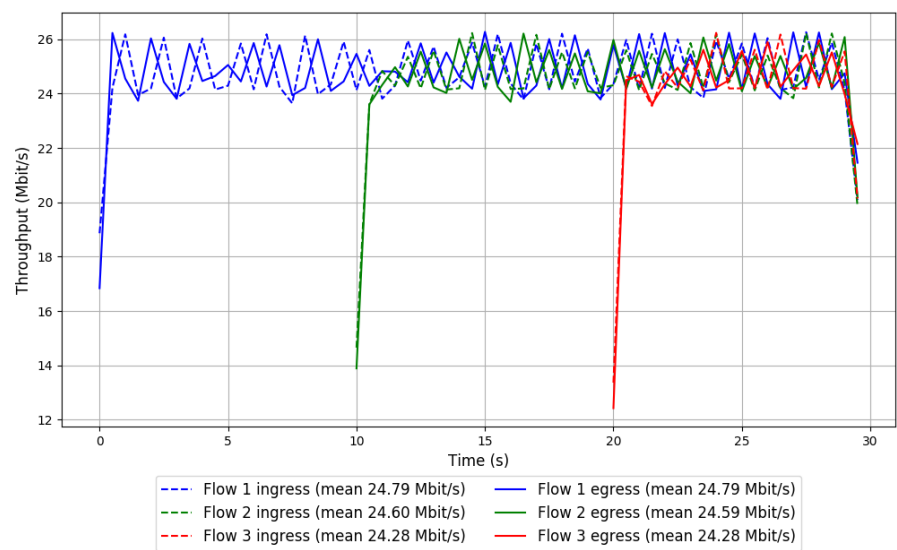


Run 2: Statistics of Sprout

Start at: 2018-01-02 11:20:47  
End at: 2018-01-02 11:21:17  
Local clock offset: 1.322 ms  
Remote clock offset: -1.503 ms

# Below is generated by plot.py at 2018-01-02 17:37:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 49.16 Mbit/s  
95th percentile per-packet one-way delay: 21.170 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 24.79 Mbit/s  
95th percentile per-packet one-way delay: 20.230 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 24.59 Mbit/s  
95th percentile per-packet one-way delay: 21.715 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 24.28 Mbit/s  
95th percentile per-packet one-way delay: 21.261 ms  
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



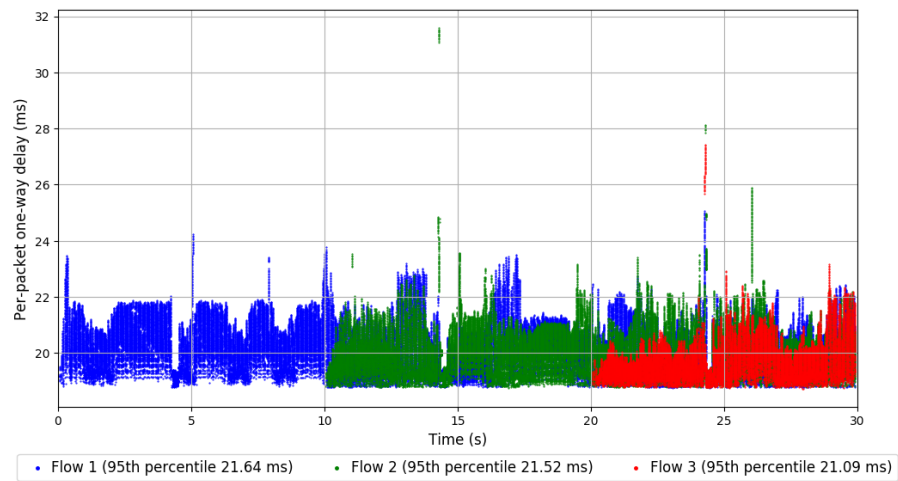
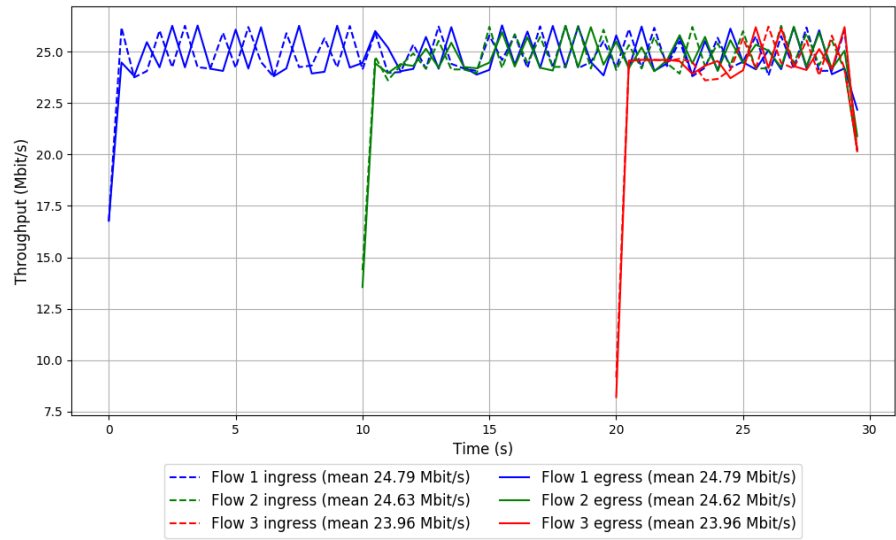
### Run 3: Statistics of Sprout

Start at: 2018-01-02 11:43:07  
End at: 2018-01-02 11:43:37  
Local clock offset: 1.401 ms  
Remote clock offset: -1.374 ms

```
# Below is generated by plot.py at 2018-01-02 17:37:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.06 Mbit/s
95th percentile per-packet one-way delay: 21.556 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 24.79 Mbit/s
95th percentile per-packet one-way delay: 21.637 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 24.62 Mbit/s
95th percentile per-packet one-way delay: 21.522 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 23.96 Mbit/s
95th percentile per-packet one-way delay: 21.093 ms
Loss rate: 0.00%
```



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

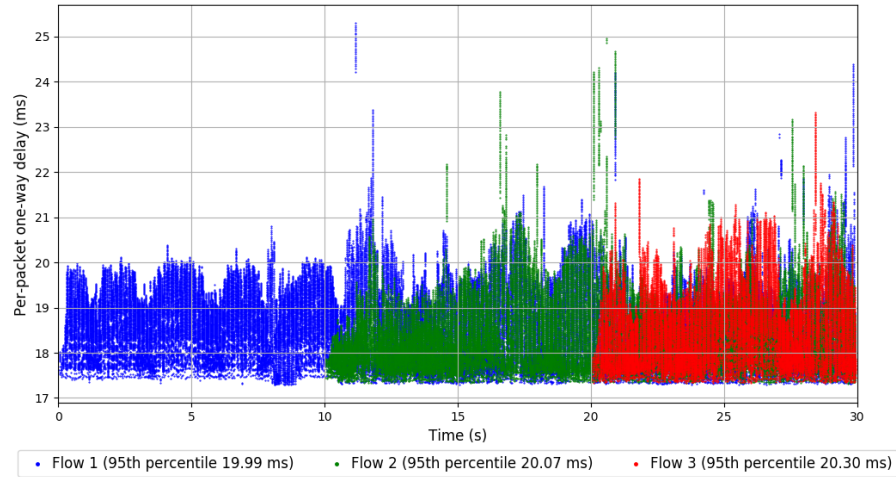
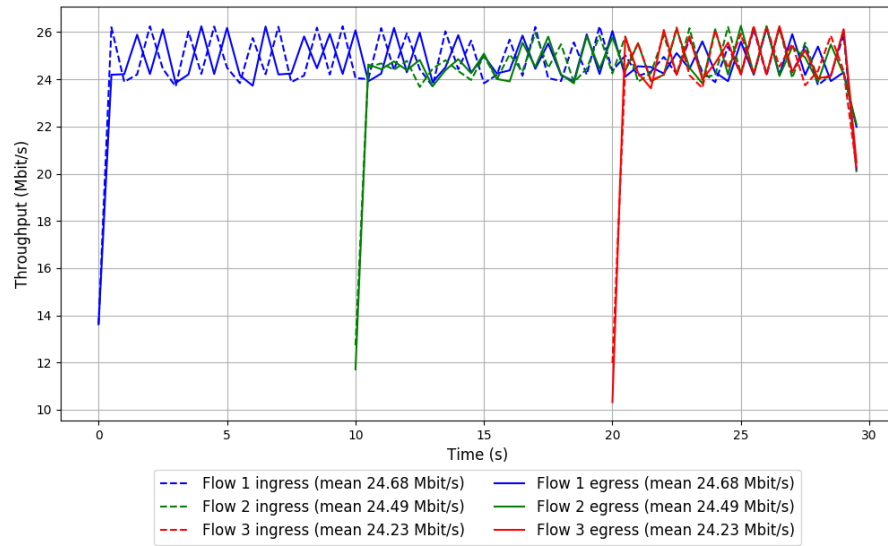


#### Run 4: Statistics of Sprout

Start at: 2018-01-02 12:05:12  
End at: 2018-01-02 12:05:42  
Local clock offset: 1.466 ms  
Remote clock offset: -1.494 ms

```
# Below is generated by plot.py at 2018-01-02 17:37:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.97 Mbit/s
95th percentile per-packet one-way delay: 20.085 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.68 Mbit/s
95th percentile per-packet one-way delay: 19.992 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.49 Mbit/s
95th percentile per-packet one-way delay: 20.075 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 24.23 Mbit/s
95th percentile per-packet one-way delay: 20.303 ms
Loss rate: 0.00%
```

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

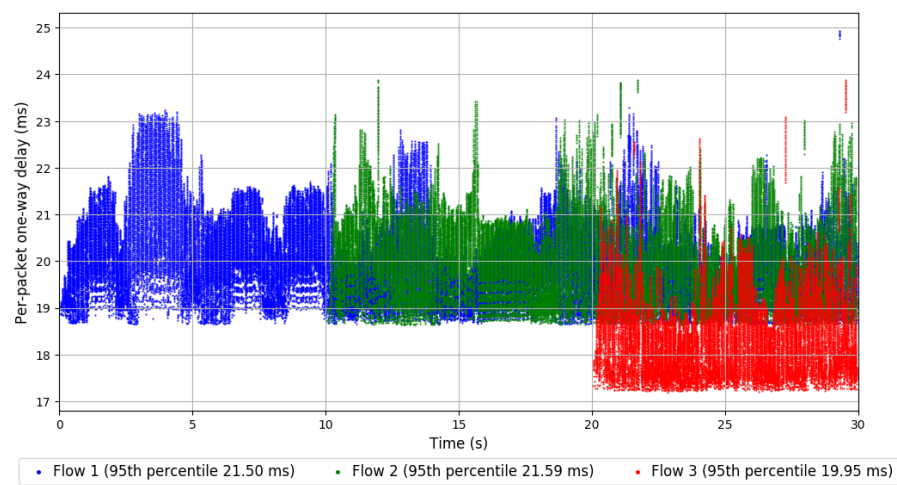
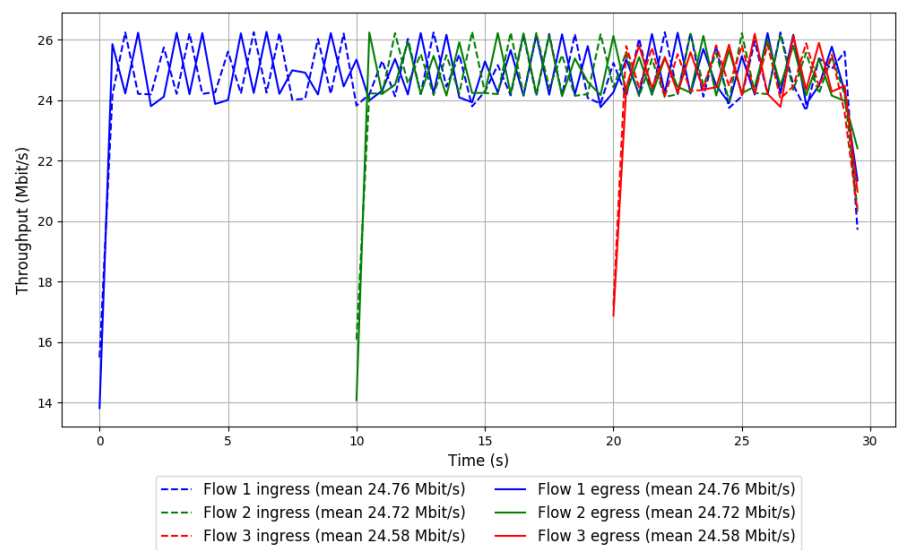


Run 5: Statistics of Sprout

Start at: 2018-01-02 12:27:23  
End at: 2018-01-02 12:27:53  
Local clock offset: 1.579 ms  
Remote clock offset: -1.497 ms

# Below is generated by plot.py at 2018-01-02 17:37:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 49.33 Mbit/s  
95th percentile per-packet one-way delay: 21.446 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 24.76 Mbit/s  
95th percentile per-packet one-way delay: 21.504 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 24.72 Mbit/s  
95th percentile per-packet one-way delay: 21.587 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 24.58 Mbit/s  
95th percentile per-packet one-way delay: 19.955 ms  
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

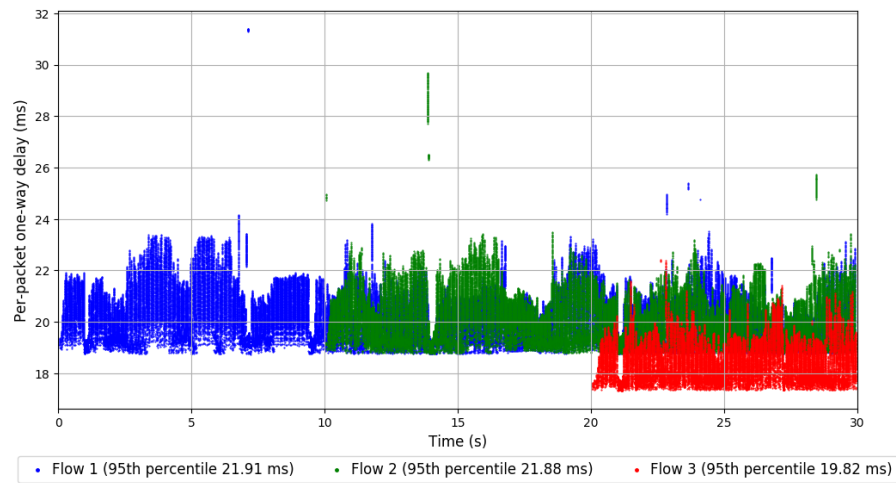
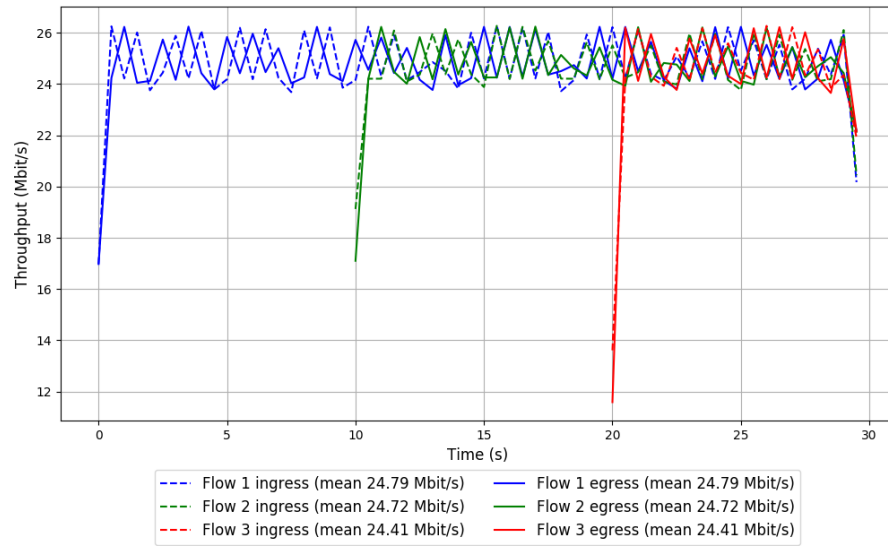


Run 6: Statistics of Sprout

Start at: 2018-01-02 12:49:49  
End at: 2018-01-02 12:50:19  
Local clock offset: 1.481 ms  
Remote clock offset: -1.253 ms

```
# Below is generated by plot.py at 2018-01-02 17:37:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.30 Mbit/s
95th percentile per-packet one-way delay: 21.782 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.79 Mbit/s
95th percentile per-packet one-way delay: 21.914 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.72 Mbit/s
95th percentile per-packet one-way delay: 21.876 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.41 Mbit/s
95th percentile per-packet one-way delay: 19.818 ms
Loss rate: 0.00%
```

## Run 6: Report of Sprout — Data Link



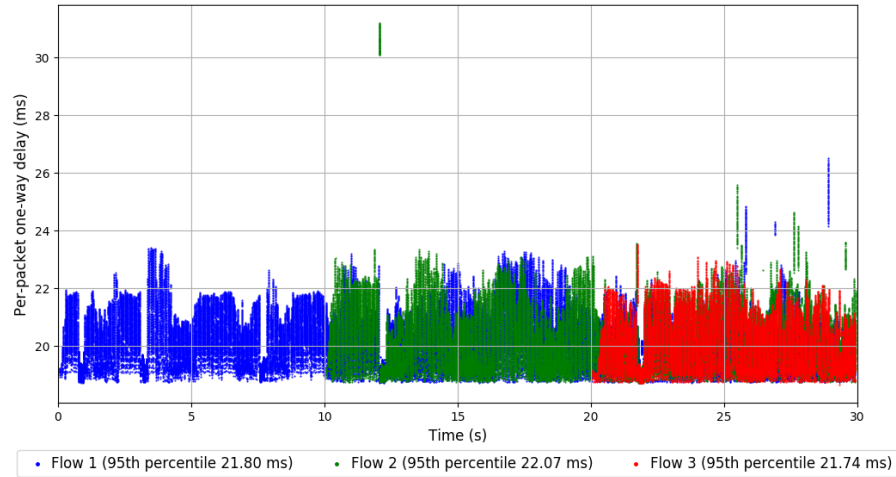
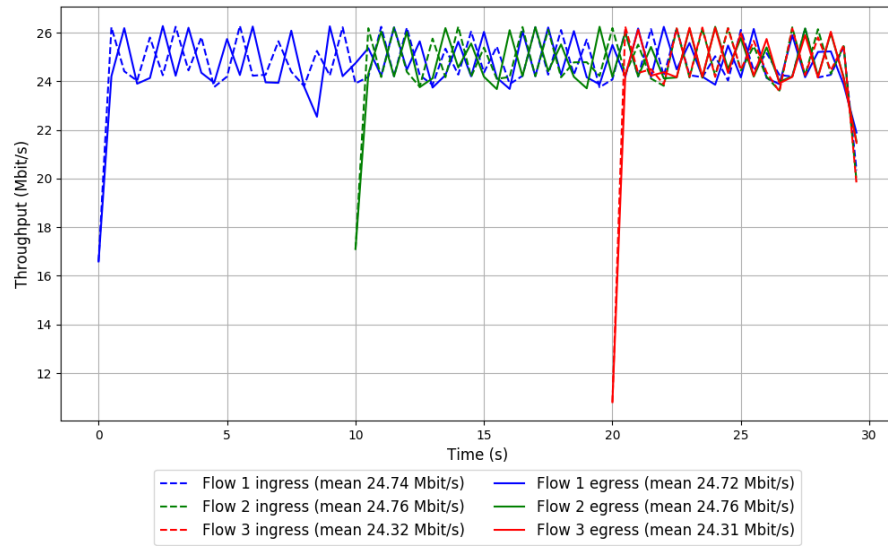
Run 7: Statistics of Sprout

Start at: 2018-01-02 13:11:58  
End at: 2018-01-02 13:12:28  
Local clock offset: 1.509 ms  
Remote clock offset: -1.391 ms

```
# Below is generated by plot.py at 2018-01-02 17:37:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.22 Mbit/s
95th percentile per-packet one-way delay: 21.892 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 24.72 Mbit/s
95th percentile per-packet one-way delay: 21.798 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 24.76 Mbit/s
95th percentile per-packet one-way delay: 22.067 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.31 Mbit/s
95th percentile per-packet one-way delay: 21.736 ms
Loss rate: 0.03%
```



## Run 7: Report of Sprout — Data Link

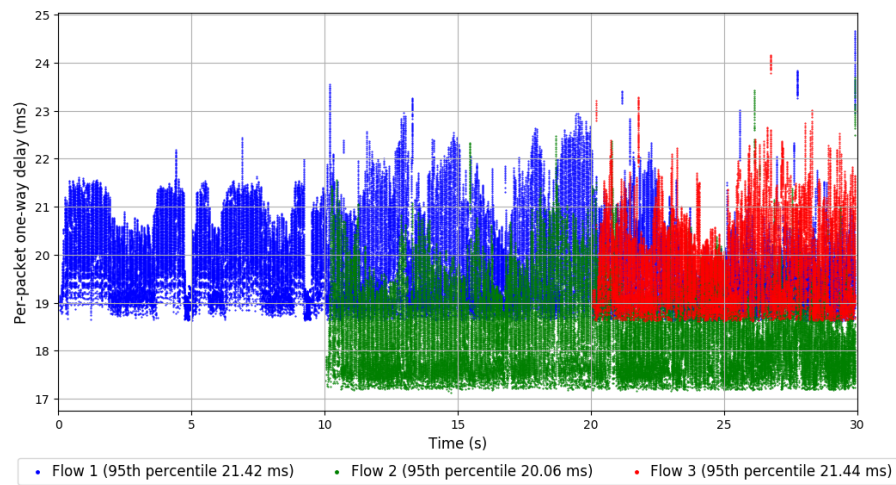
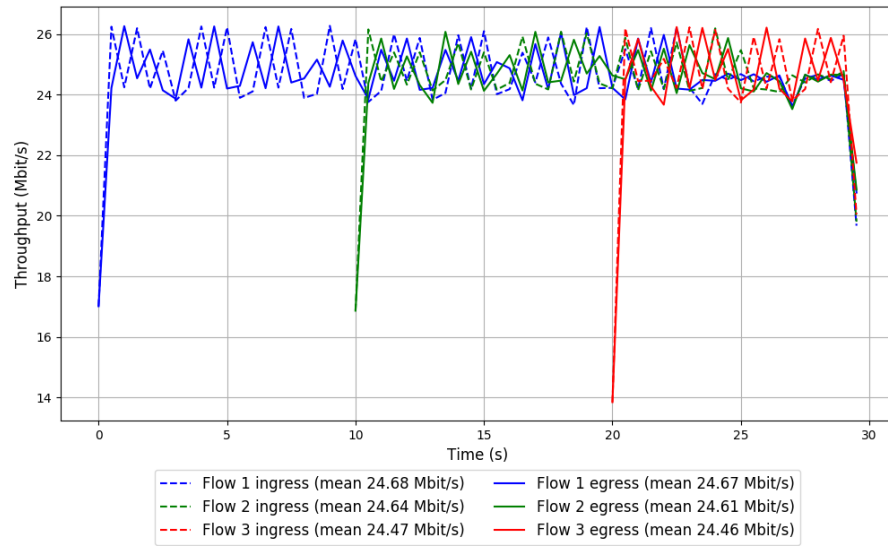


Run 8: Statistics of Sprout

Start at: 2018-01-02 13:33:55  
End at: 2018-01-02 13:34:25  
Local clock offset: 1.643 ms  
Remote clock offset: -1.392 ms

```
# Below is generated by plot.py at 2018-01-02 17:37:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.12 Mbit/s
95th percentile per-packet one-way delay: 21.245 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 24.67 Mbit/s
95th percentile per-packet one-way delay: 21.421 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 24.61 Mbit/s
95th percentile per-packet one-way delay: 20.060 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 24.46 Mbit/s
95th percentile per-packet one-way delay: 21.436 ms
Loss rate: 0.00%
```

# Run 8: Report of Sprout — Data Link

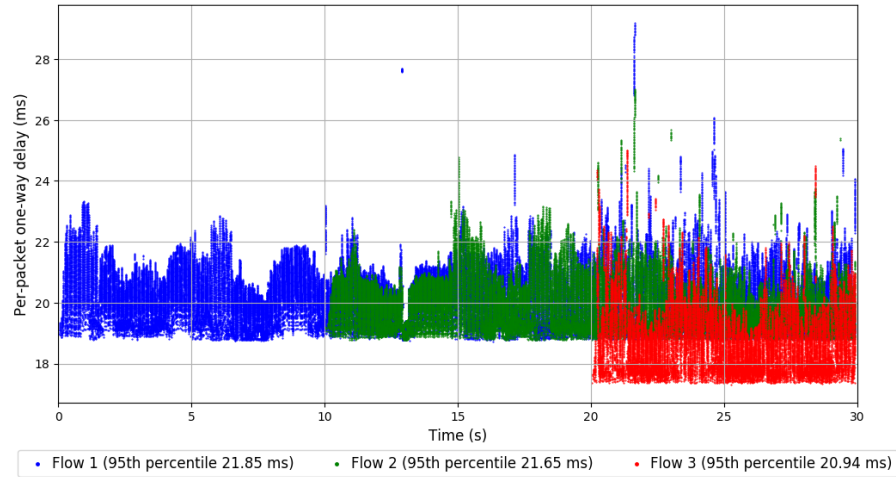
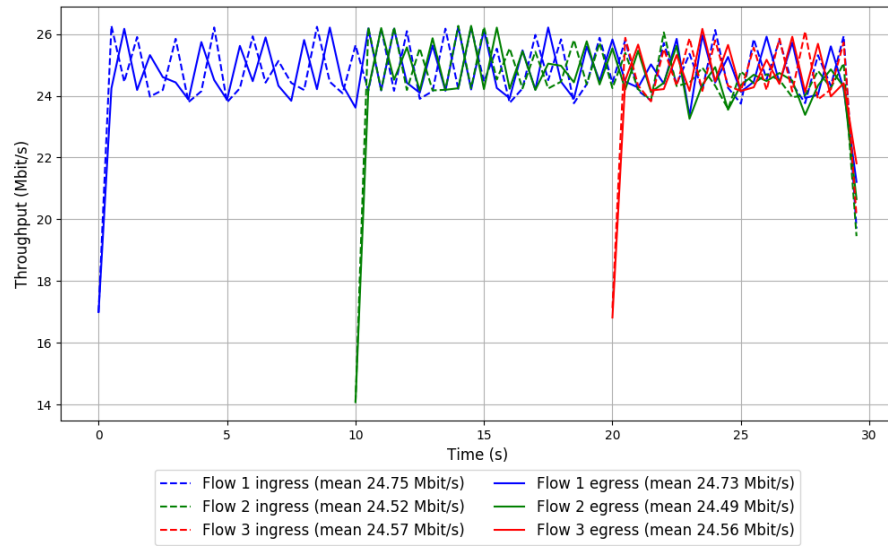


Run 9: Statistics of Sprout

Start at: 2018-01-02 13:55:54  
End at: 2018-01-02 13:56:24  
Local clock offset: 1.481 ms  
Remote clock offset: -1.546 ms

```
# Below is generated by plot.py at 2018-01-02 17:37:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.13 Mbit/s
95th percentile per-packet one-way delay: 21.719 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 24.73 Mbit/s
95th percentile per-packet one-way delay: 21.852 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 24.49 Mbit/s
95th percentile per-packet one-way delay: 21.646 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 24.56 Mbit/s
95th percentile per-packet one-way delay: 20.941 ms
Loss rate: 0.00%
```

## Run 9: Report of Sprout — Data Link

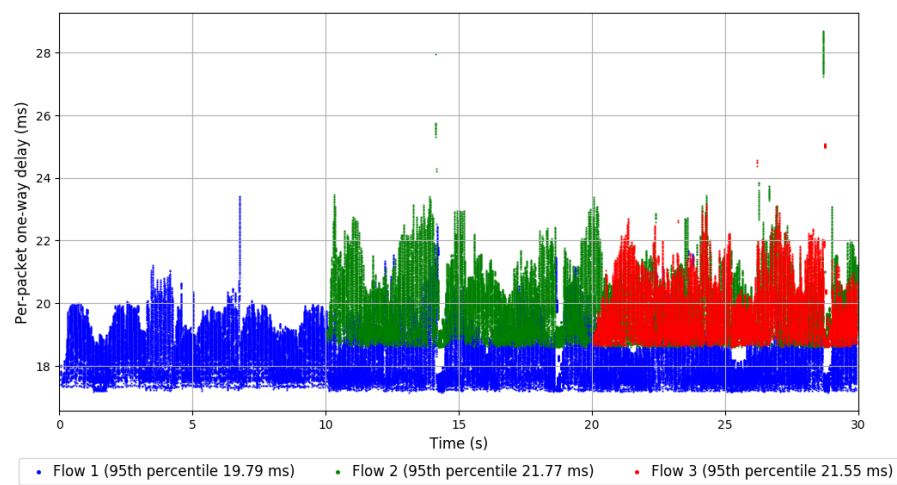
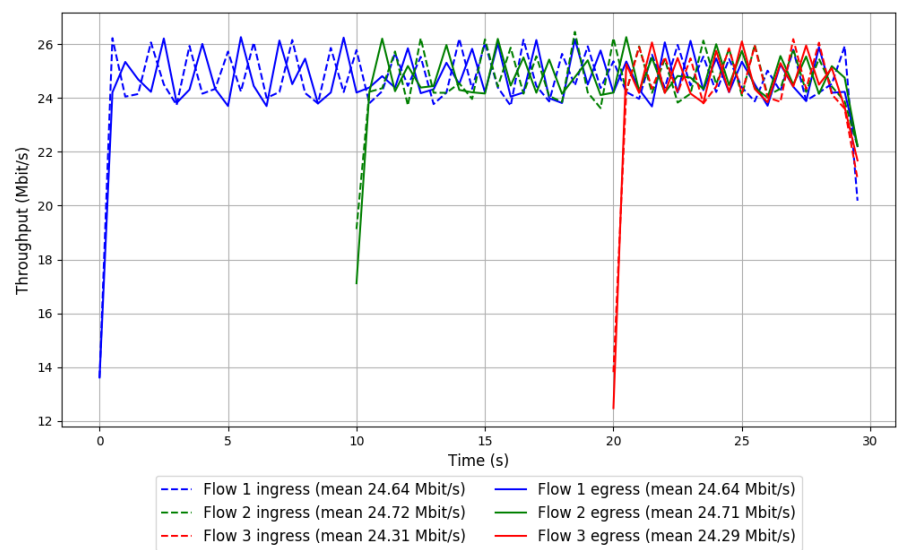


Run 10: Statistics of Sprout

Start at: 2018-01-02 14:17:56  
End at: 2018-01-02 14:18:26  
Local clock offset: 1.527 ms  
Remote clock offset: -1.504 ms

```
# Below is generated by plot.py at 2018-01-02 17:37:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.10 Mbit/s
95th percentile per-packet one-way delay: 21.243 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 24.64 Mbit/s
95th percentile per-packet one-way delay: 19.789 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.71 Mbit/s
95th percentile per-packet one-way delay: 21.766 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 24.29 Mbit/s
95th percentile per-packet one-way delay: 21.548 ms
Loss rate: 0.07%
```

Run 10: Report of Sprout — Data Link



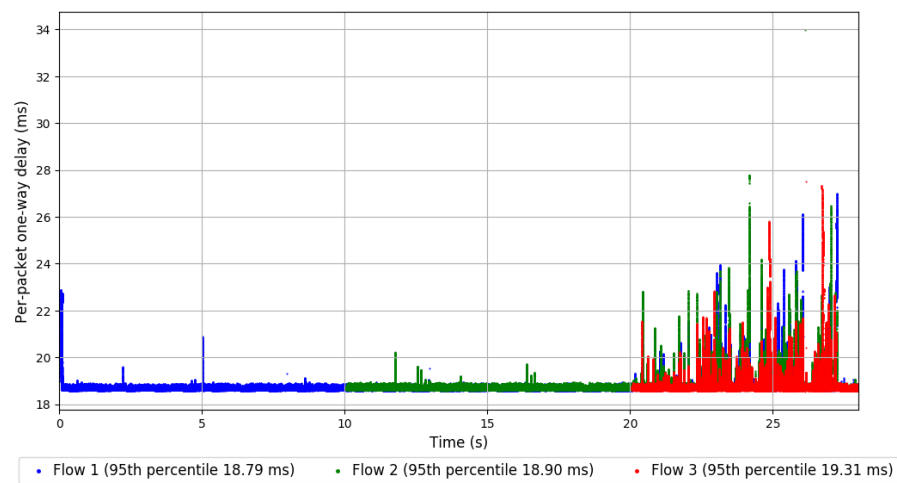
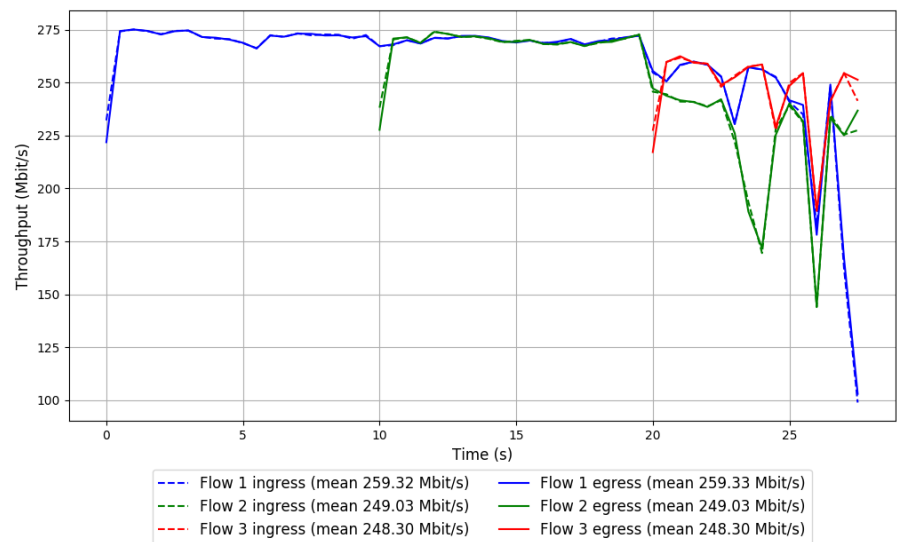
```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-02 11:19:02
End at: 2018-01-02 11:19:32
Local clock offset: 1.389 ms
Remote clock offset: -1.608 ms

# Below is generated by plot.py at 2018-01-02 17:45:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 489.71 Mbit/s
95th percentile per-packet one-way delay: 18.862 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 259.33 Mbit/s
95th percentile per-packet one-way delay: 18.790 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 249.03 Mbit/s
95th percentile per-packet one-way delay: 18.897 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 248.30 Mbit/s
95th percentile per-packet one-way delay: 19.311 ms
Loss rate: 0.00%
```



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

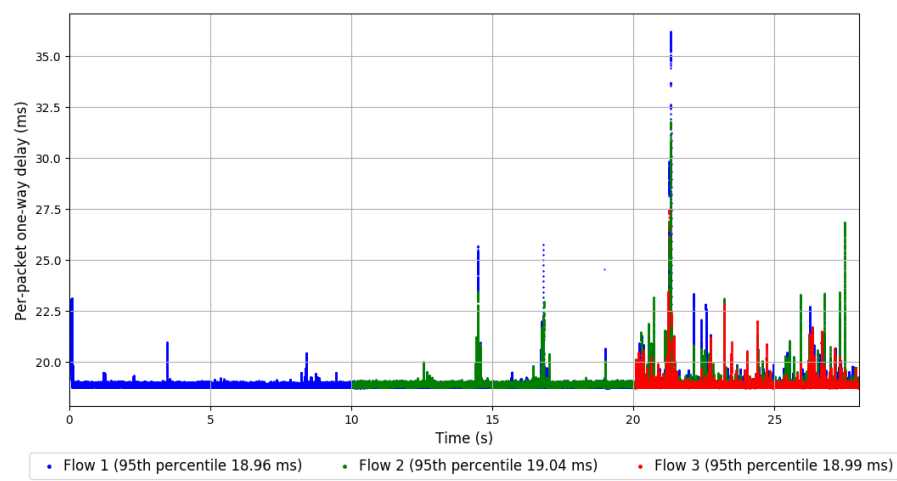
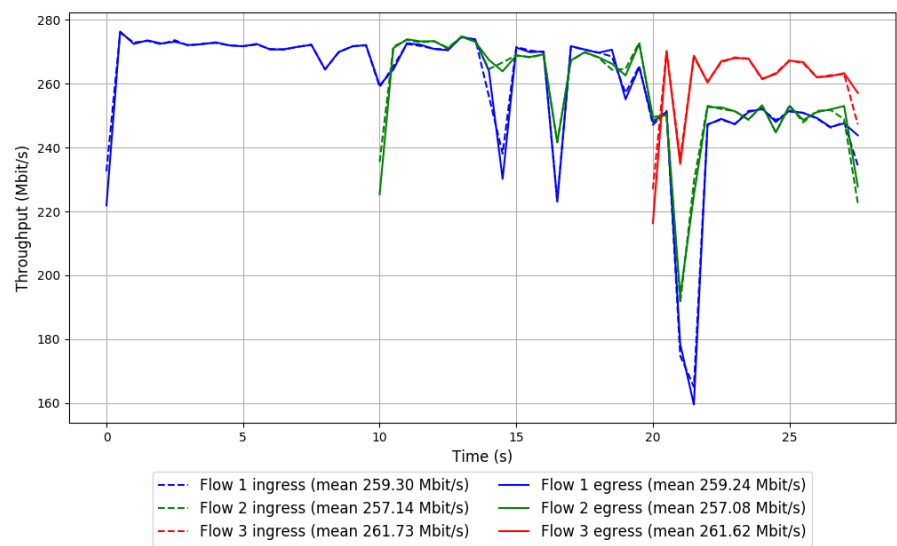


Run 2: Statistics of TaoVA-100x

Start at: 2018-01-02 11:41:21  
End at: 2018-01-02 11:41:51  
Local clock offset: 1.398 ms  
Remote clock offset: -1.367 ms

# Below is generated by plot.py at 2018-01-02 17:45:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 498.59 Mbit/s  
95th percentile per-packet one-way delay: 18.994 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 259.24 Mbit/s  
95th percentile per-packet one-way delay: 18.965 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 257.08 Mbit/s  
95th percentile per-packet one-way delay: 19.036 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 261.62 Mbit/s  
95th percentile per-packet one-way delay: 18.994 ms  
Loss rate: 0.04%

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

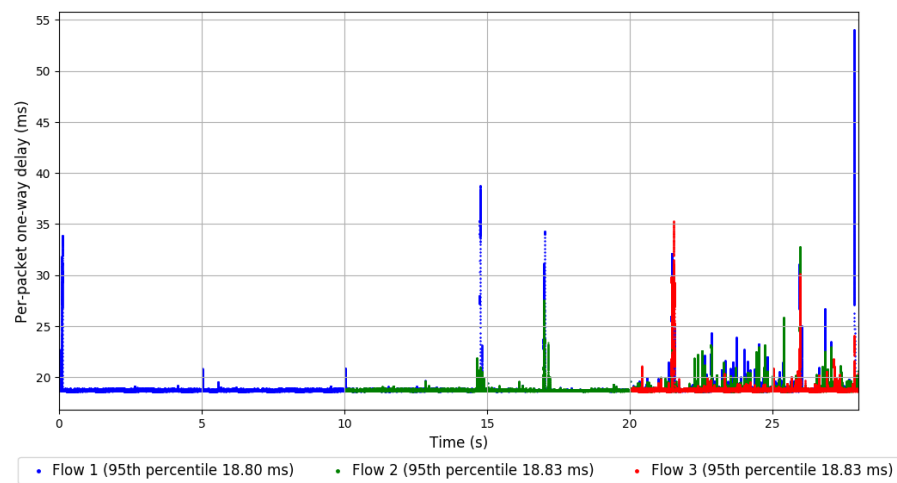
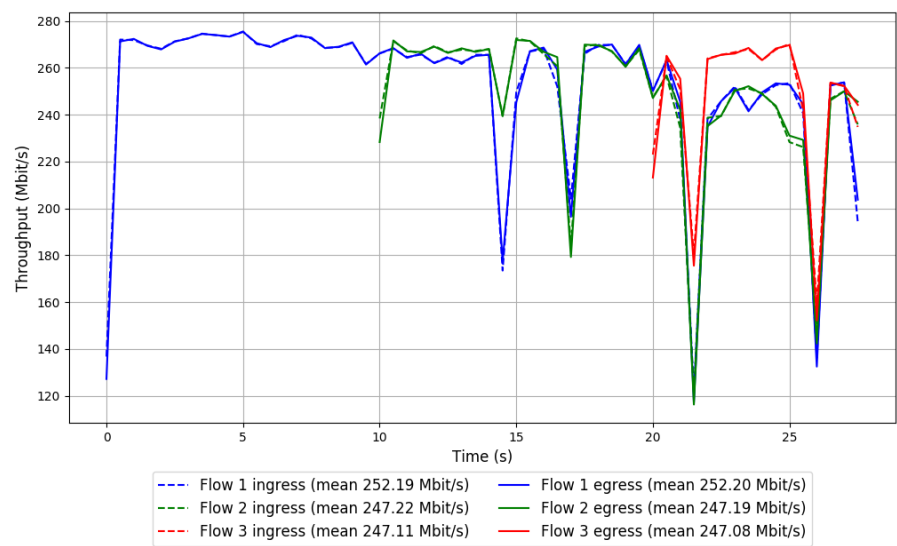


Run 3: Statistics of TaoVA-100x

Start at: 2018-01-02 12:03:27  
End at: 2018-01-02 12:03:57  
Local clock offset: 1.54 ms  
Remote clock offset: -1.515 ms

# Below is generated by plot.py at 2018-01-02 17:45:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 481.09 Mbit/s  
95th percentile per-packet one-way delay: 18.814 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 252.20 Mbit/s  
95th percentile per-packet one-way delay: 18.799 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 247.19 Mbit/s  
95th percentile per-packet one-way delay: 18.830 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 247.08 Mbit/s  
95th percentile per-packet one-way delay: 18.832 ms  
Loss rate: 0.00%

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

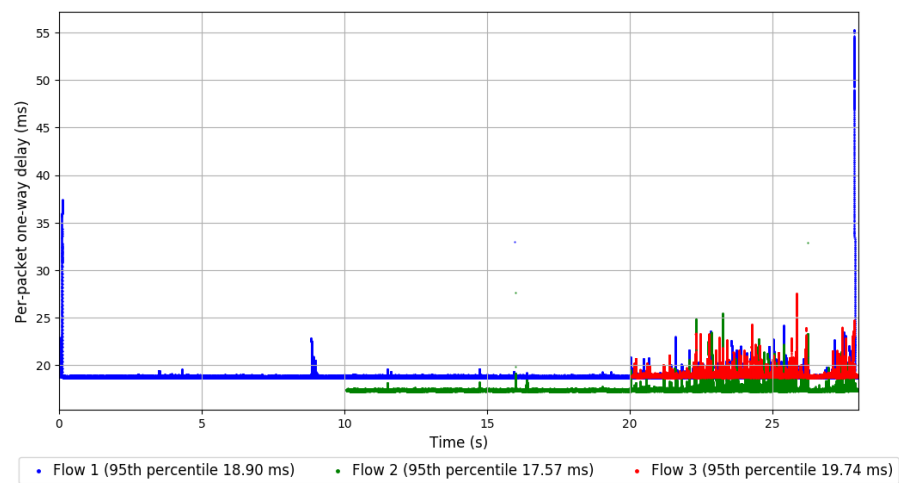
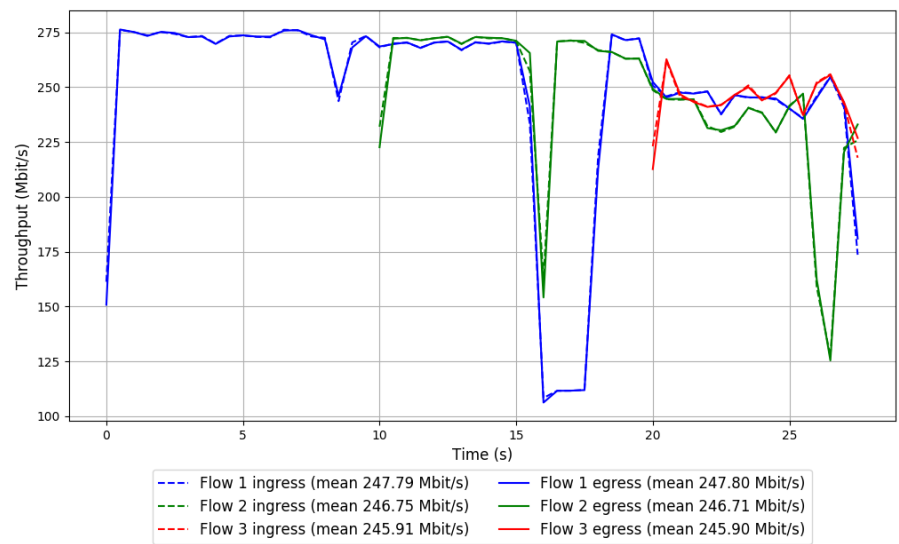


Run 4: Statistics of TaoVA-100x

Start at: 2018-01-02 12:25:38  
End at: 2018-01-02 12:26:08  
Local clock offset: 1.595 ms  
Remote clock offset: -1.379 ms

# Below is generated by plot.py at 2018-01-02 17:45:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 475.87 Mbit/s  
95th percentile per-packet one-way delay: 18.923 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 247.80 Mbit/s  
95th percentile per-packet one-way delay: 18.901 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 246.71 Mbit/s  
95th percentile per-packet one-way delay: 17.568 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 245.90 Mbit/s  
95th percentile per-packet one-way delay: 19.737 ms  
Loss rate: 0.01%

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



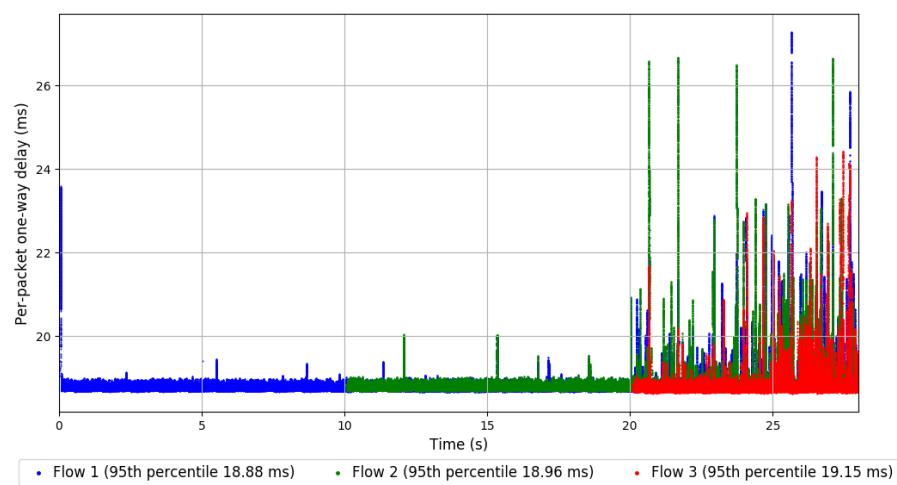
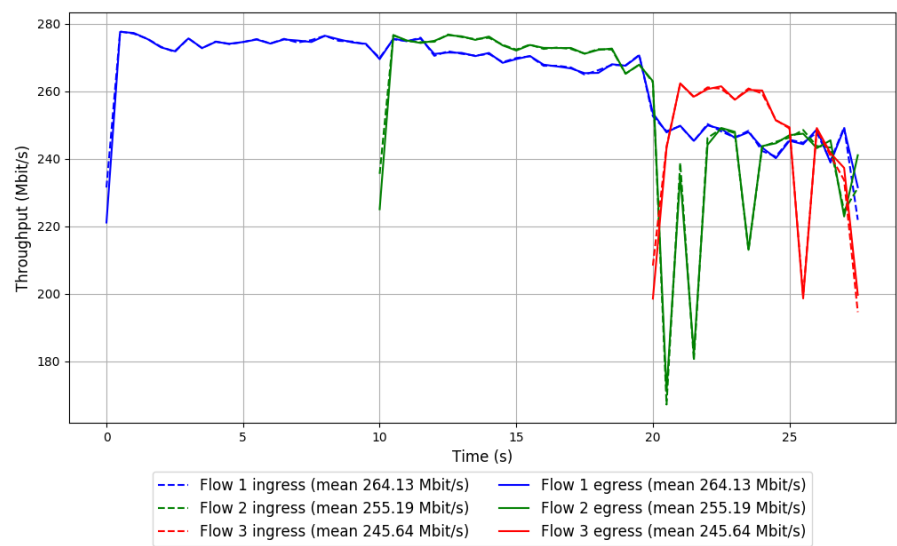
Run 5: Statistics of TaoVA-100x

Start at: 2018-01-02 12:48:02  
End at: 2018-01-02 12:48:32  
Local clock offset: 1.45 ms  
Remote clock offset: -1.341 ms

# Below is generated by plot.py at 2018-01-02 17:45:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 497.44 Mbit/s  
95th percentile per-packet one-way delay: 18.922 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 264.13 Mbit/s  
95th percentile per-packet one-way delay: 18.878 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 255.19 Mbit/s  
95th percentile per-packet one-way delay: 18.958 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 245.64 Mbit/s  
95th percentile per-packet one-way delay: 19.147 ms  
Loss rate: 0.00%



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

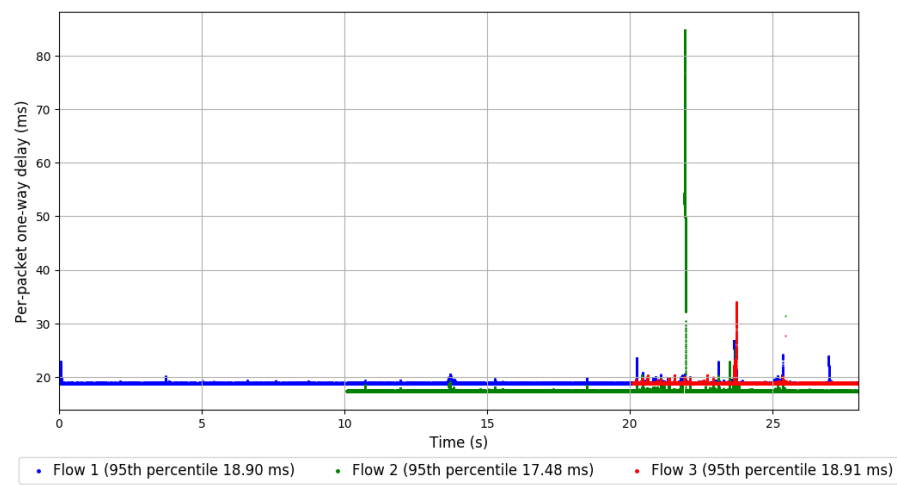
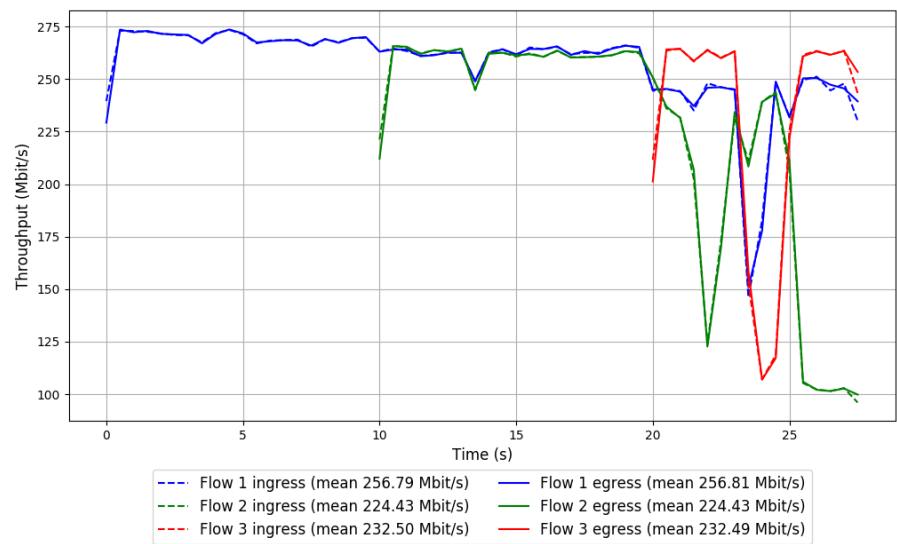


Run 6: Statistics of TaoVA-100x

Start at: 2018-01-02 13:10:14  
End at: 2018-01-02 13:10:44  
Local clock offset: 1.593 ms  
Remote clock offset: -1.307 ms

# Below is generated by plot.py at 2018-01-02 17:45:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 466.55 Mbit/s  
95th percentile per-packet one-way delay: 18.877 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 256.81 Mbit/s  
95th percentile per-packet one-way delay: 18.896 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 224.43 Mbit/s  
95th percentile per-packet one-way delay: 17.478 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 232.49 Mbit/s  
95th percentile per-packet one-way delay: 18.911 ms  
Loss rate: 0.01%

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

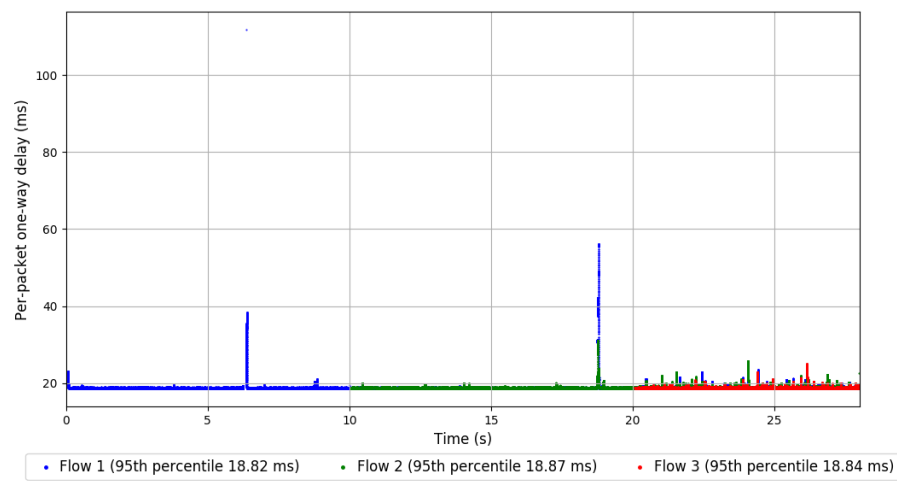
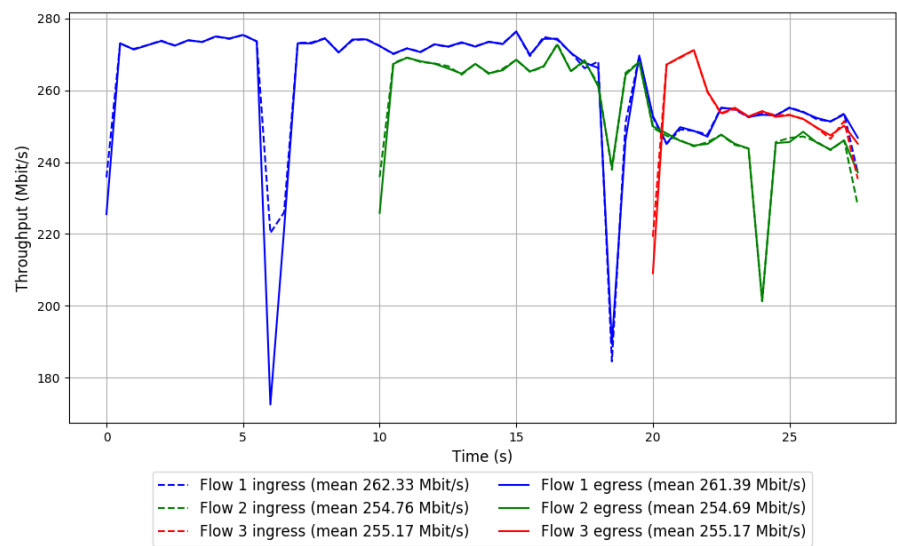


Run 7: Statistics of TaoVA-100x

Start at: 2018-01-02 13:32:09  
End at: 2018-01-02 13:32:39  
Local clock offset: 1.637 ms  
Remote clock offset: -1.373 ms

# Below is generated by plot.py at 2018-01-02 17:49:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 497.16 Mbit/s  
95th percentile per-packet one-way delay: 18.838 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 261.39 Mbit/s  
95th percentile per-packet one-way delay: 18.815 ms  
Loss rate: 0.36%  
-- Flow 2:  
Average throughput: 254.69 Mbit/s  
95th percentile per-packet one-way delay: 18.872 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 255.17 Mbit/s  
95th percentile per-packet one-way delay: 18.836 ms  
Loss rate: 0.00%

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

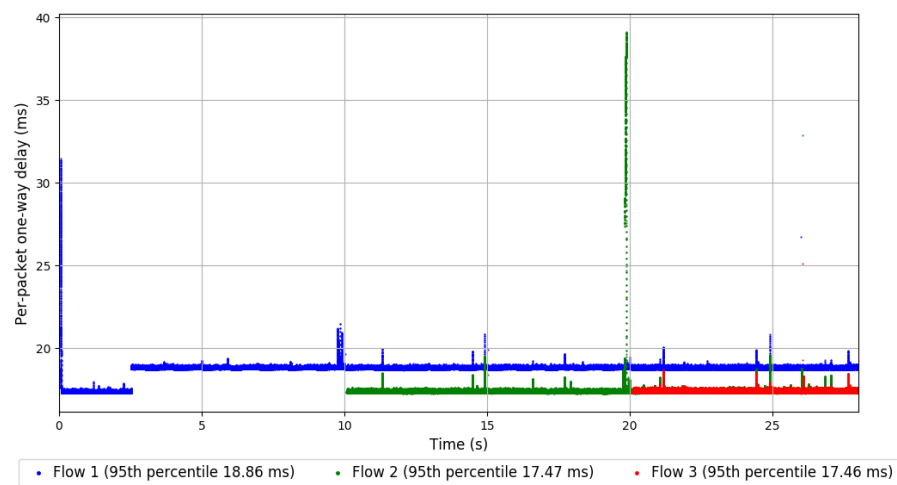
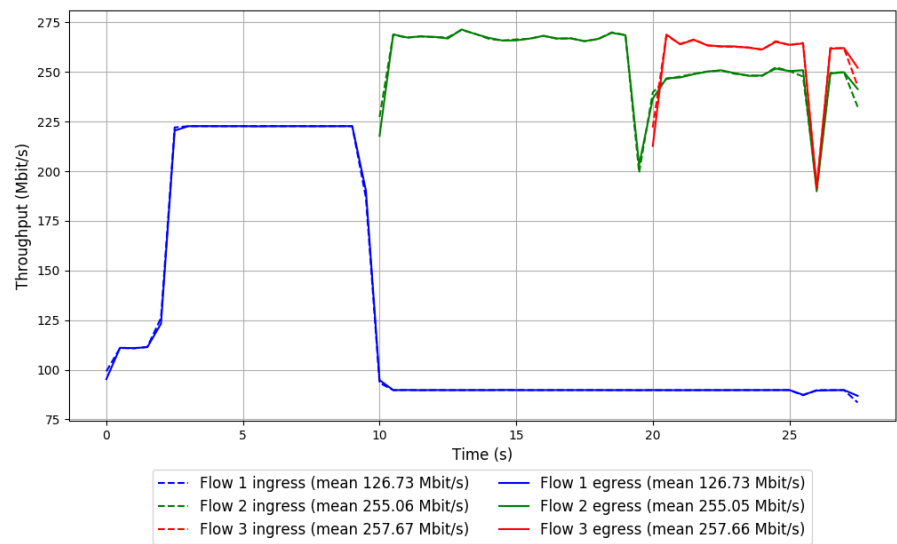


Run 8: Statistics of TaoVA-100x

Start at: 2018-01-02 13:54:18  
End at: 2018-01-02 13:54:48  
Local clock offset: 1.472 ms  
Remote clock offset: -1.558 ms

# Below is generated by plot.py at 2018-01-02 17:49:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 363.31 Mbit/s  
95th percentile per-packet one-way delay: 18.823 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 126.73 Mbit/s  
95th percentile per-packet one-way delay: 18.864 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 255.05 Mbit/s  
95th percentile per-packet one-way delay: 17.474 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 257.66 Mbit/s  
95th percentile per-packet one-way delay: 17.465 ms  
Loss rate: 0.00%

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



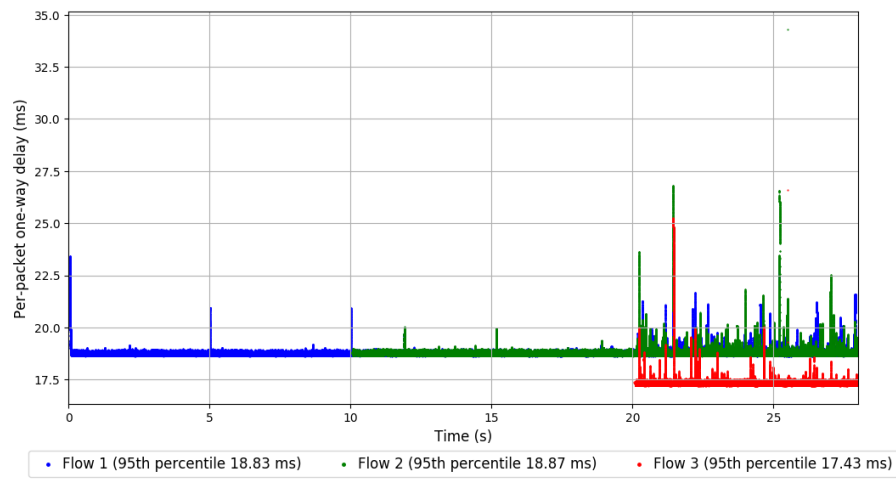
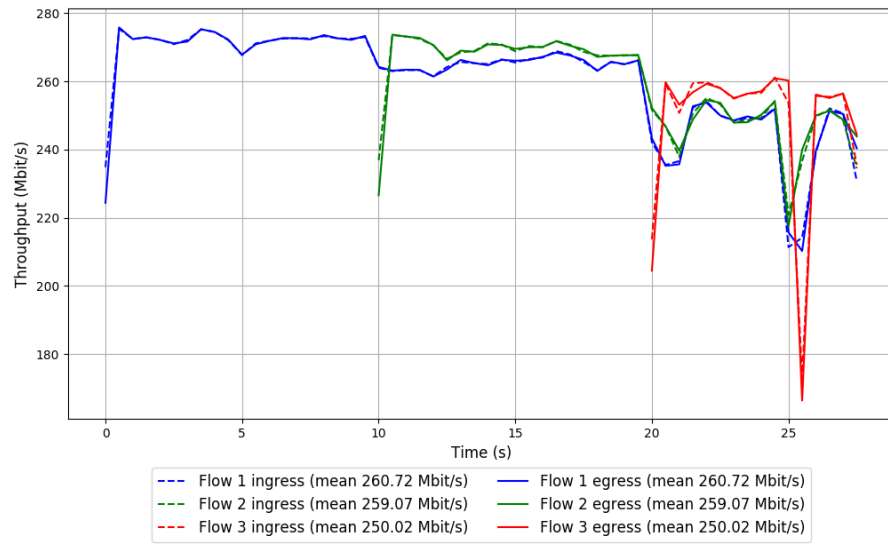
Run 9: Statistics of TaoVA-100x

Start at: 2018-01-02 14:16:10  
End at: 2018-01-02 14:16:40  
Local clock offset: 1.512 ms  
Remote clock offset: -1.461 ms

# Below is generated by plot.py at 2018-01-02 17:57:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 497.80 Mbit/s  
95th percentile per-packet one-way delay: 18.833 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 260.72 Mbit/s  
95th percentile per-packet one-way delay: 18.829 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 259.07 Mbit/s  
95th percentile per-packet one-way delay: 18.872 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 250.02 Mbit/s  
95th percentile per-packet one-way delay: 17.431 ms  
Loss rate: 0.00%



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

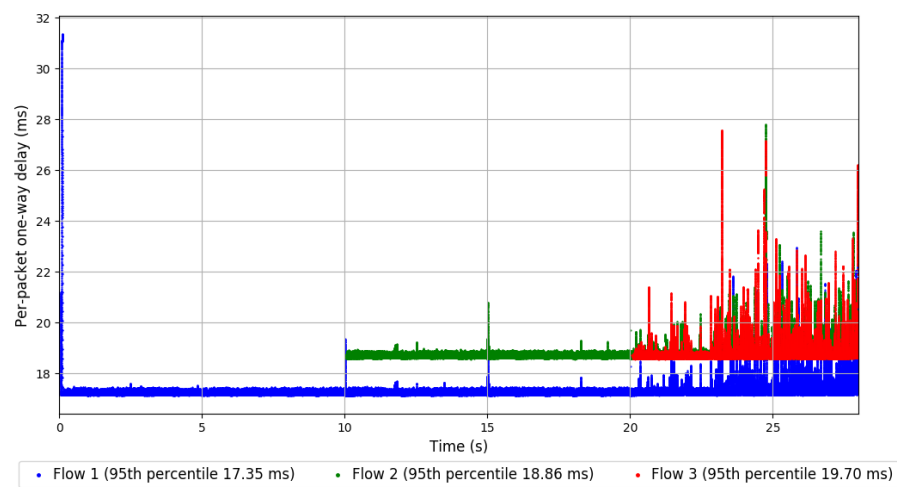
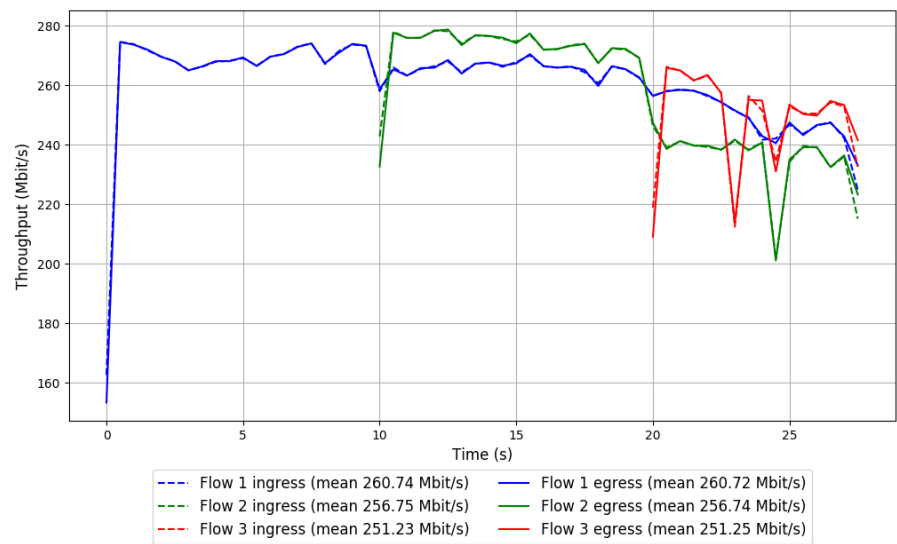


Run 10: Statistics of TaoVA-100x

Start at: 2018-01-02 14:38:32  
End at: 2018-01-02 14:39:02  
Local clock offset: 1.475 ms  
Remote clock offset: -1.526 ms

# Below is generated by plot.py at 2018-01-02 17:57:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 496.71 Mbit/s  
95th percentile per-packet one-way delay: 18.796 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 260.72 Mbit/s  
95th percentile per-packet one-way delay: 17.352 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 256.74 Mbit/s  
95th percentile per-packet one-way delay: 18.864 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 251.25 Mbit/s  
95th percentile per-packet one-way delay: 19.699 ms  
Loss rate: 0.00%

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

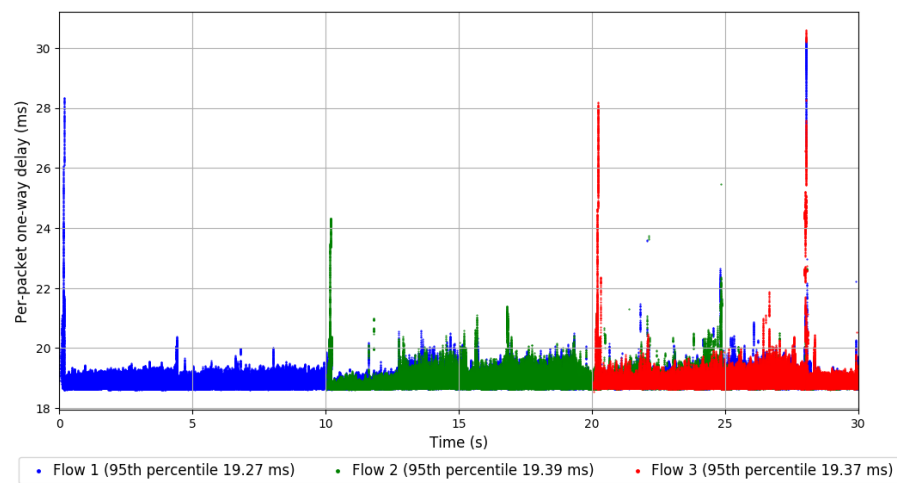
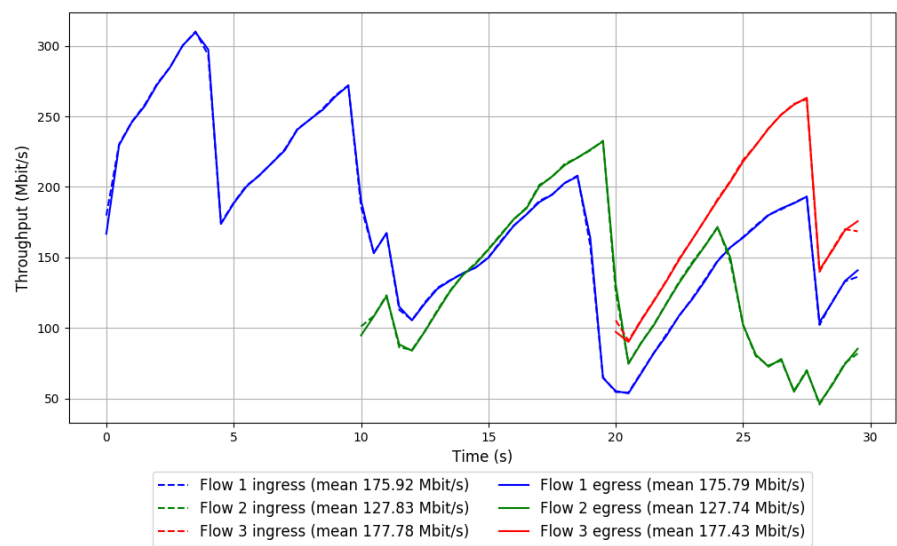


Run 1: Statistics of TCP Vegas

Start at: 2018-01-02 11:02:21  
End at: 2018-01-02 11:02:51  
Local clock offset: 1.305 ms  
Remote clock offset: -1.208 ms

# Below is generated by plot.py at 2018-01-02 17:57:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 319.75 Mbit/s  
95th percentile per-packet one-way delay: 19.319 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 175.79 Mbit/s  
95th percentile per-packet one-way delay: 19.268 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 127.74 Mbit/s  
95th percentile per-packet one-way delay: 19.388 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 177.43 Mbit/s  
95th percentile per-packet one-way delay: 19.367 ms  
Loss rate: 0.20%

Run 1: Report of TCP Vegas — Data Link

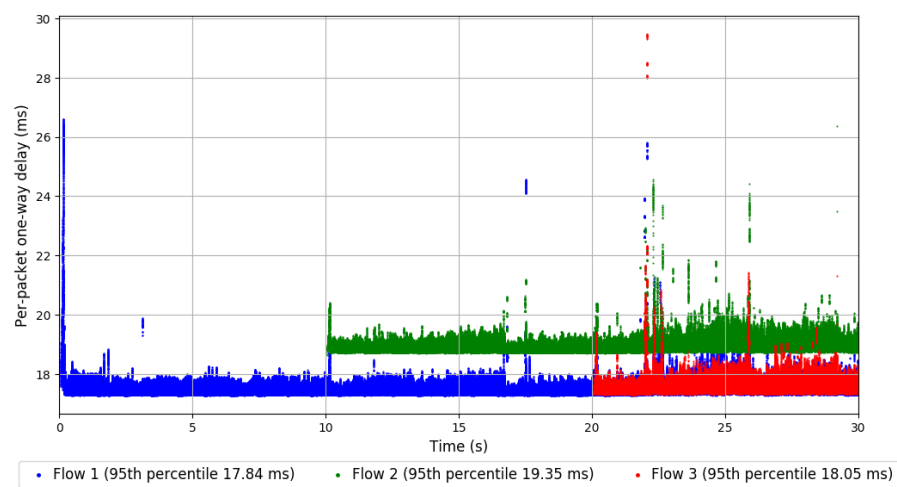
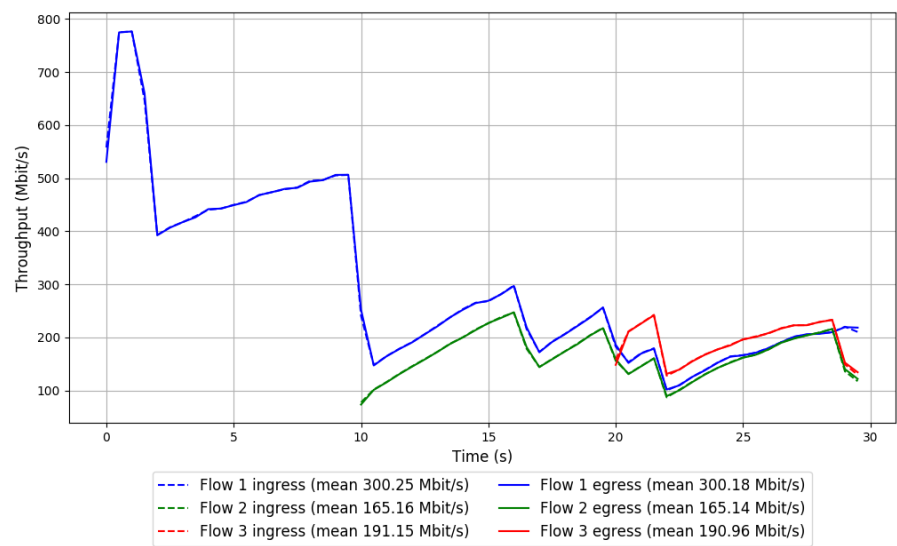


Run 2: Statistics of TCP Vegas

Start at: 2018-01-02 11:24:35  
End at: 2018-01-02 11:25:05  
Local clock offset: 1.317 ms  
Remote clock offset: -1.526 ms

# Below is generated by plot.py at 2018-01-02 17:57:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 473.53 Mbit/s  
95th percentile per-packet one-way delay: 19.118 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 300.18 Mbit/s  
95th percentile per-packet one-way delay: 17.838 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 165.14 Mbit/s  
95th percentile per-packet one-way delay: 19.350 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 190.96 Mbit/s  
95th percentile per-packet one-way delay: 18.055 ms  
Loss rate: 0.10%

Run 2: Report of TCP Vegas — Data Link



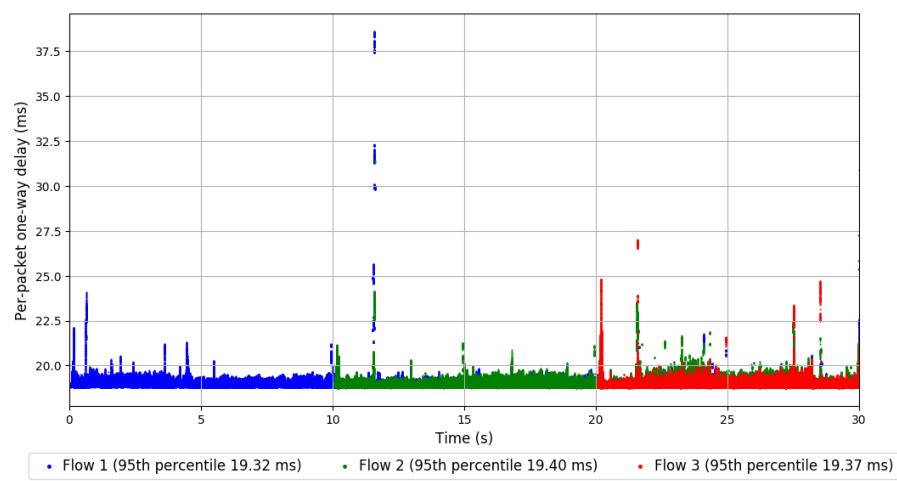
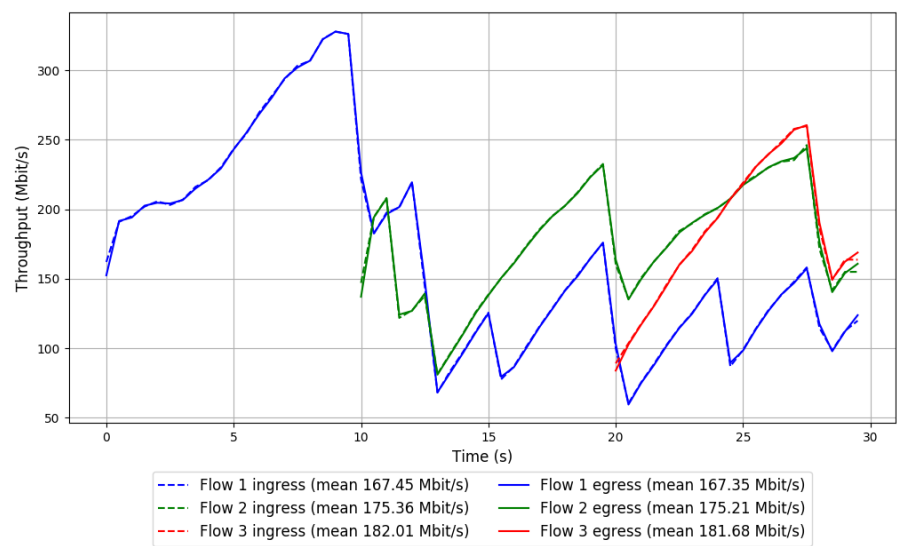
Run 3: Statistics of TCP Vegas

Start at: 2018-01-02 11:46:55  
End at: 2018-01-02 11:47:25  
Local clock offset: 1.422 ms  
Remote clock offset: -1.309 ms

# Below is generated by plot.py at 2018-01-02 17:57:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 344.29 Mbit/s  
95th percentile per-packet one-way delay: 19.356 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 167.35 Mbit/s  
95th percentile per-packet one-way delay: 19.321 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 175.21 Mbit/s  
95th percentile per-packet one-way delay: 19.400 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 181.68 Mbit/s  
95th percentile per-packet one-way delay: 19.370 ms  
Loss rate: 0.10%



Run 3: Report of TCP Vegas — Data Link

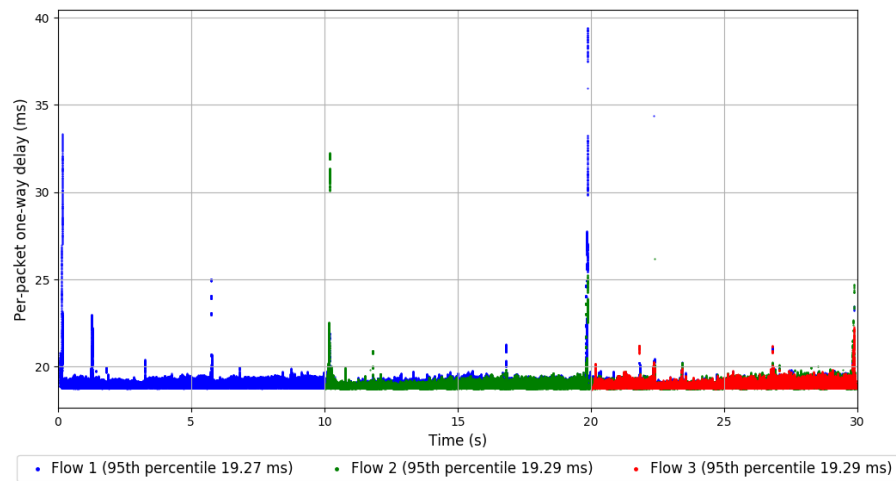
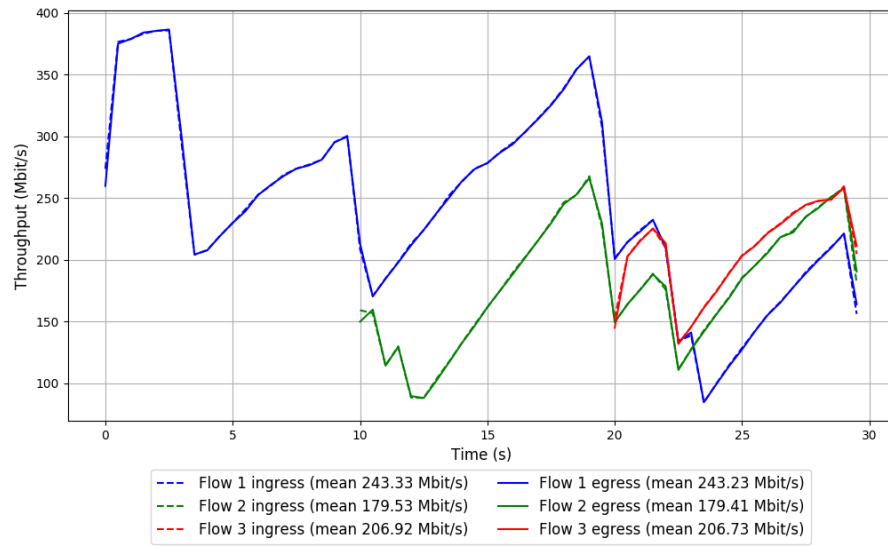


Run 4: Statistics of TCP Vegas

Start at: 2018-01-02 12:09:00  
End at: 2018-01-02 12:09:30  
Local clock offset: 1.497 ms  
Remote clock offset: -1.477 ms

# Below is generated by plot.py at 2018-01-02 17:57:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 431.38 Mbit/s  
95th percentile per-packet one-way delay: 19.280 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 243.23 Mbit/s  
95th percentile per-packet one-way delay: 19.273 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 179.41 Mbit/s  
95th percentile per-packet one-way delay: 19.289 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 206.73 Mbit/s  
95th percentile per-packet one-way delay: 19.290 ms  
Loss rate: 0.09%

# Run 4: Report of TCP Vegas — Data Link

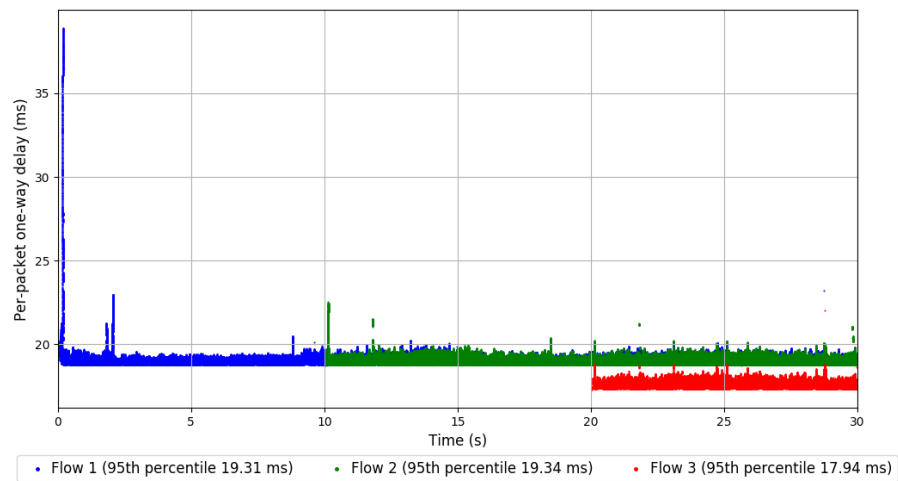
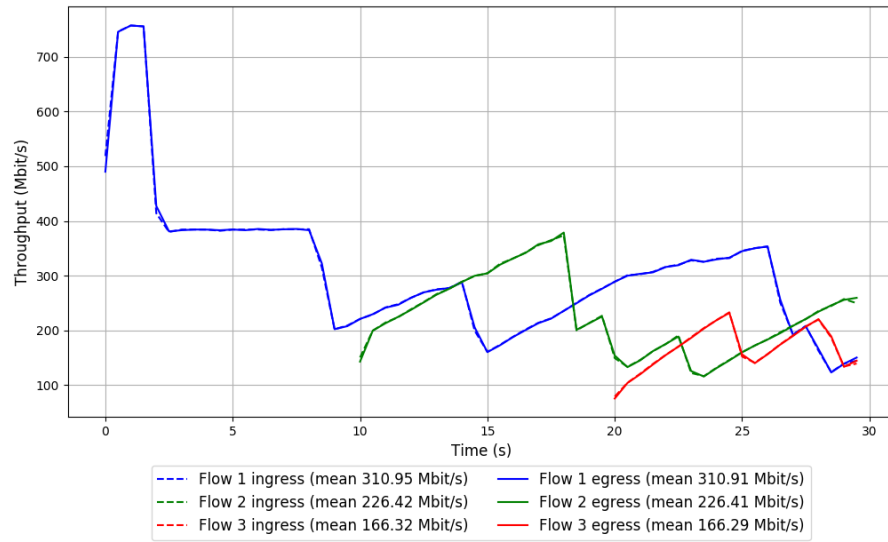


Run 5: Statistics of TCP Vegas

Start at: 2018-01-02 12:31:11  
End at: 2018-01-02 12:31:41  
Local clock offset: 1.464 ms  
Remote clock offset: -1.418 ms

# Below is generated by plot.py at 2018-01-02 17:57:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 516.94 Mbit/s  
95th percentile per-packet one-way delay: 19.307 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 310.91 Mbit/s  
95th percentile per-packet one-way delay: 19.311 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 226.41 Mbit/s  
95th percentile per-packet one-way delay: 19.339 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 166.29 Mbit/s  
95th percentile per-packet one-way delay: 17.943 ms  
Loss rate: 0.02%

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

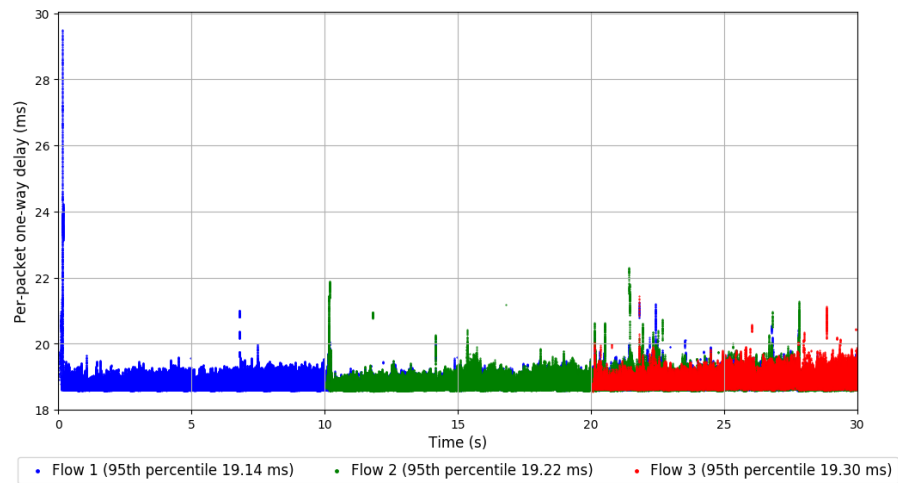
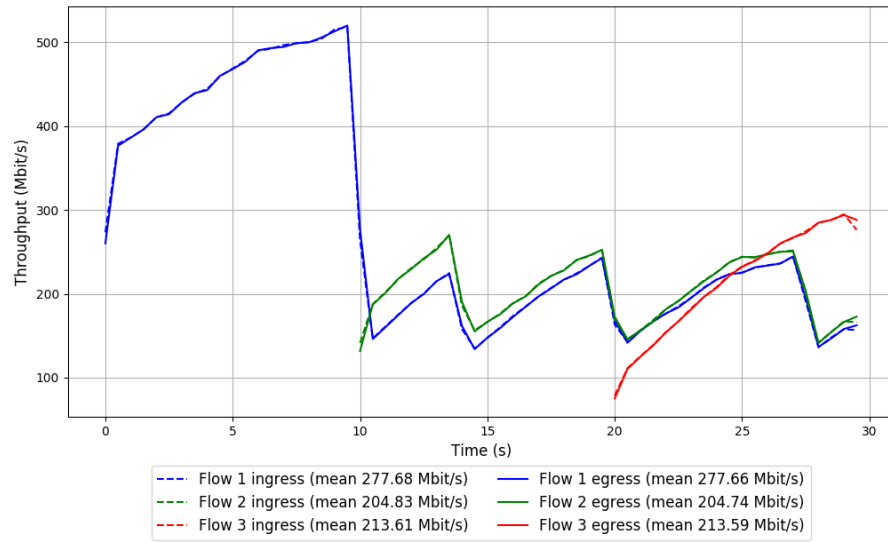


Run 6: Statistics of TCP Vegas

Start at: 2018-01-02 12:53:37  
End at: 2018-01-02 12:54:07  
Local clock offset: 1.539 ms  
Remote clock offset: -1.303 ms

```
# Below is generated by plot.py at 2018-01-02 17:57:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 484.91 Mbit/s
95th percentile per-packet one-way delay: 19.196 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 277.66 Mbit/s
95th percentile per-packet one-way delay: 19.138 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 204.74 Mbit/s
95th percentile per-packet one-way delay: 19.222 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 213.59 Mbit/s
95th percentile per-packet one-way delay: 19.298 ms
Loss rate: 0.00%
```

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



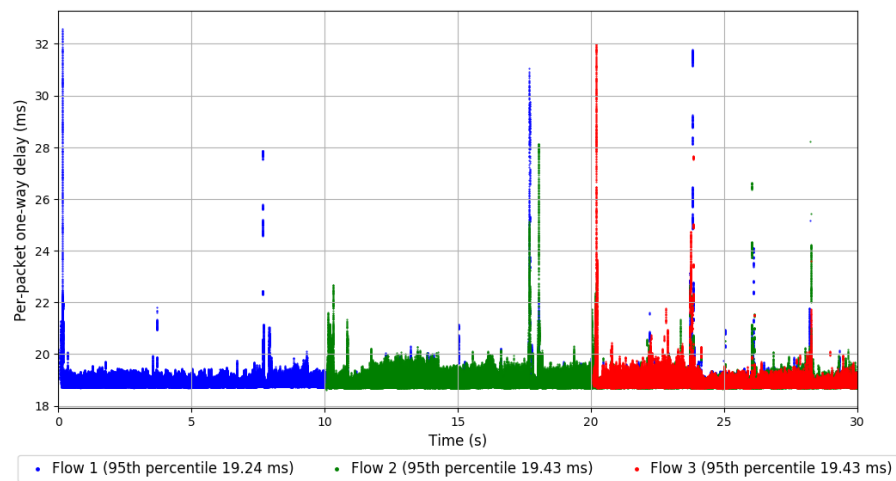
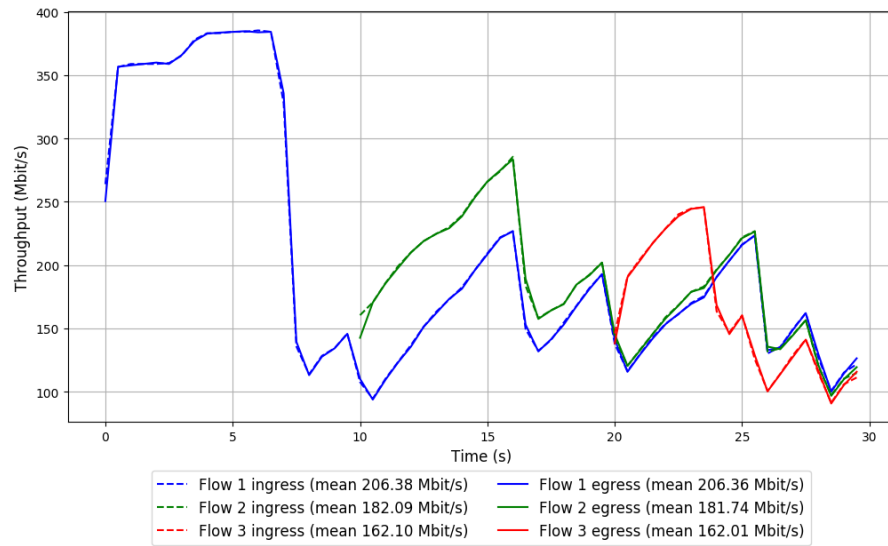
Run 7: Statistics of TCP Vegas

Start at: 2018-01-02 13:15:47  
End at: 2018-01-02 13:16:17  
Local clock offset: 1.525 ms  
Remote clock offset: -1.442 ms

# Below is generated by plot.py at 2018-01-02 17:57:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 381.15 Mbit/s  
95th percentile per-packet one-way delay: 19.336 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 206.36 Mbit/s  
95th percentile per-packet one-way delay: 19.238 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 181.74 Mbit/s  
95th percentile per-packet one-way delay: 19.434 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 162.01 Mbit/s  
95th percentile per-packet one-way delay: 19.431 ms  
Loss rate: 0.06%



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

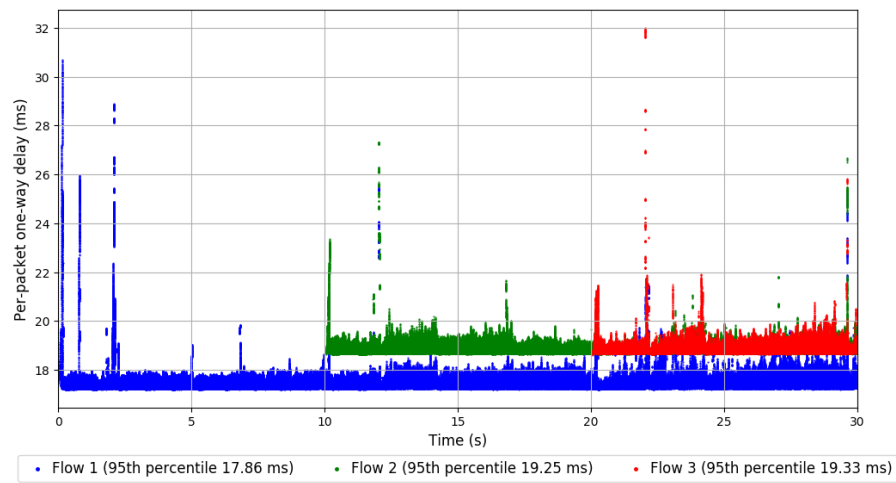
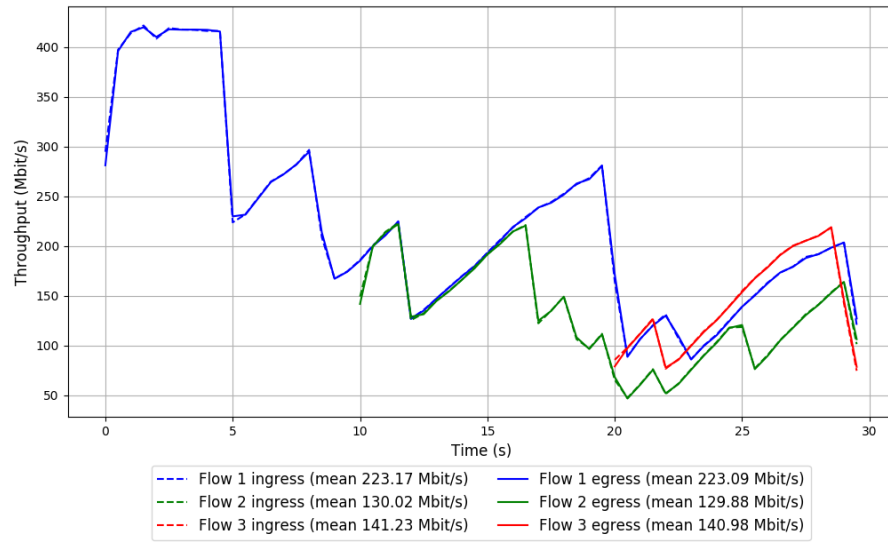


Run 8: Statistics of TCP Vegas

Start at: 2018-01-02 13:37:43  
End at: 2018-01-02 13:38:13  
Local clock offset: 1.603 ms  
Remote clock offset: -1.372 ms

# Below is generated by plot.py at 2018-01-02 17:57:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 356.34 Mbit/s  
95th percentile per-packet one-way delay: 19.141 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 223.09 Mbit/s  
95th percentile per-packet one-way delay: 17.865 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 129.88 Mbit/s  
95th percentile per-packet one-way delay: 19.255 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 140.98 Mbit/s  
95th percentile per-packet one-way delay: 19.329 ms  
Loss rate: 0.18%

# Run 8: Report of TCP Vegas — Data Link

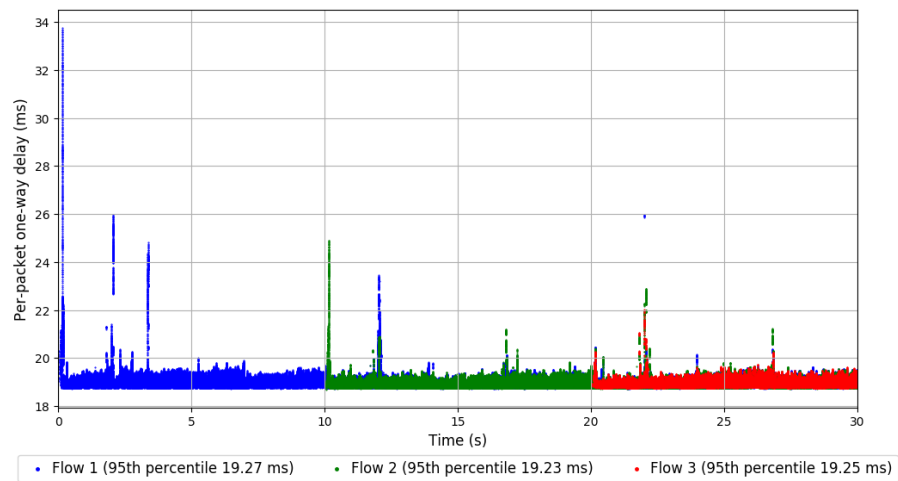
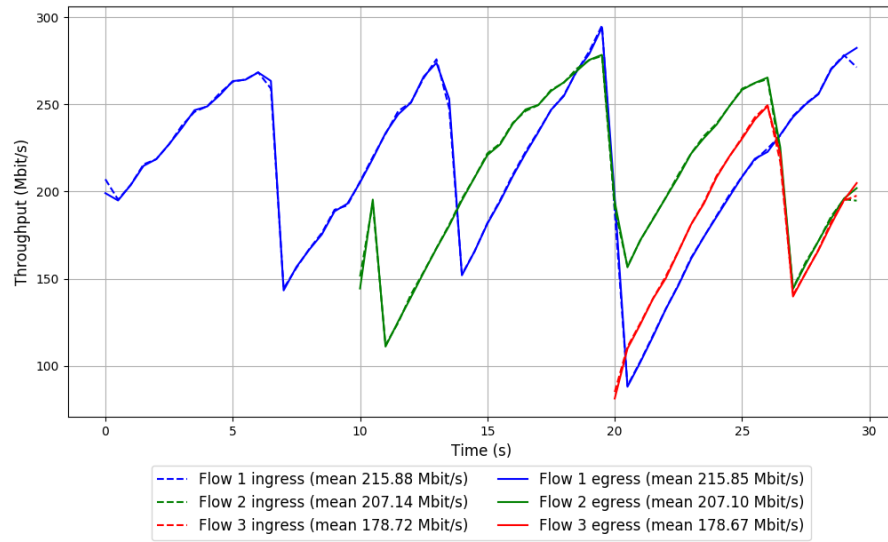


Run 9: Statistics of TCP Vegas

Start at: 2018-01-02 13:59:43  
End at: 2018-01-02 14:00:13  
Local clock offset: 1.464 ms  
Remote clock offset: -1.548 ms

# Below is generated by plot.py at 2018-01-02 17:57:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 413.09 Mbit/s  
95th percentile per-packet one-way delay: 19.259 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 215.85 Mbit/s  
95th percentile per-packet one-way delay: 19.273 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 207.10 Mbit/s  
95th percentile per-packet one-way delay: 19.234 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 178.67 Mbit/s  
95th percentile per-packet one-way delay: 19.246 ms  
Loss rate: 0.03%

# Run 9: Report of TCP Vegas — Data Link

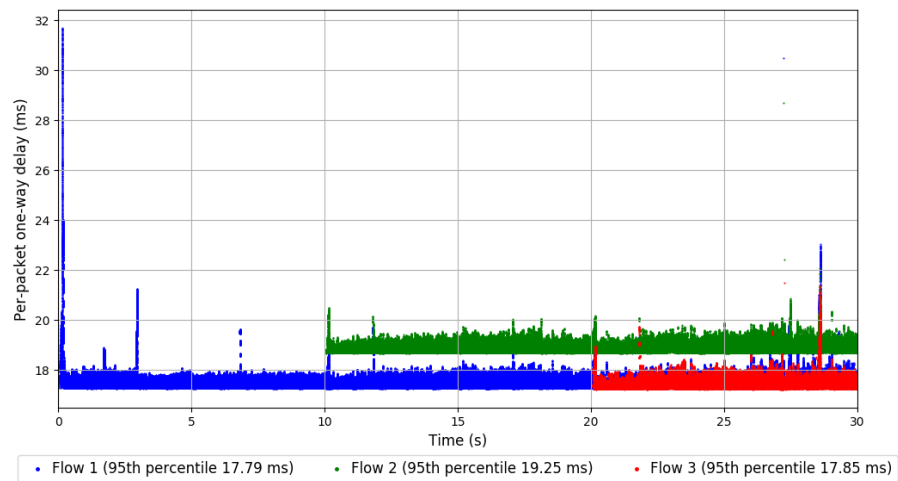
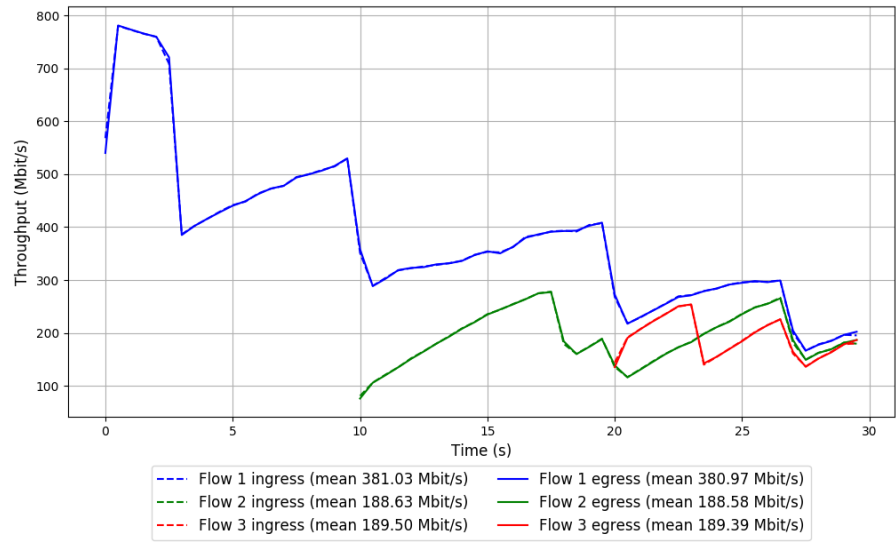


Run 10: Statistics of TCP Vegas

Start at: 2018-01-02 14:21:44  
End at: 2018-01-02 14:22:14  
Local clock offset: 1.43 ms  
Remote clock offset: -1.471 ms

# Below is generated by plot.py at 2018-01-02 18:00:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 569.42 Mbit/s  
95th percentile per-packet one-way delay: 19.033 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 380.97 Mbit/s  
95th percentile per-packet one-way delay: 17.790 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 188.58 Mbit/s  
95th percentile per-packet one-way delay: 19.255 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 189.39 Mbit/s  
95th percentile per-packet one-way delay: 17.847 ms  
Loss rate: 0.06%

# Run 10: Report of TCP Vegas — Data Link



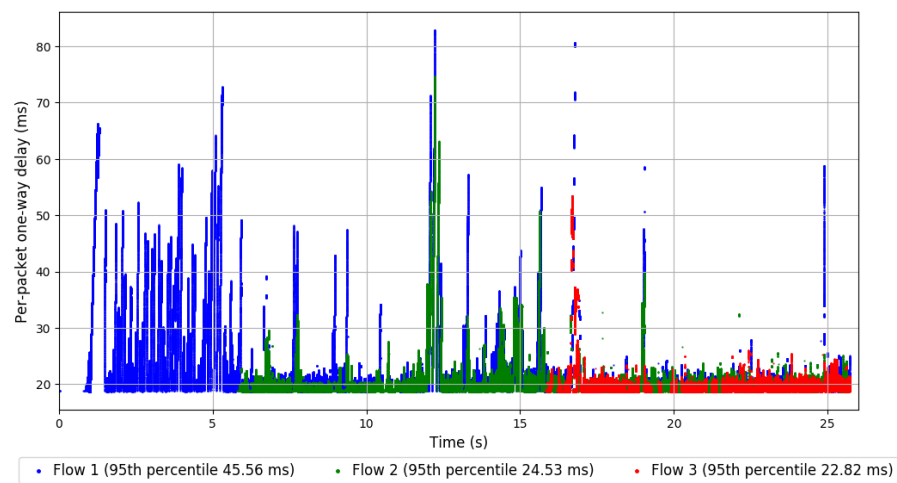
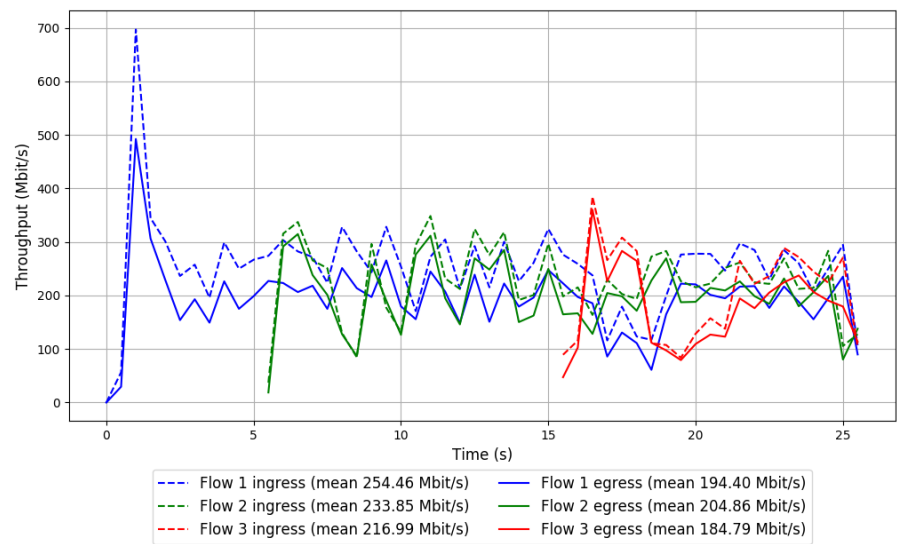
Run 1: Statistics of Verus

Start at: 2018-01-02 11:04:56  
End at: 2018-01-02 11:05:26  
Local clock offset: 1.27 ms  
Remote clock offset: -1.278 ms

# Below is generated by plot.py at 2018-01-02 18:00:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 424.41 Mbit/s  
95th percentile per-packet one-way delay: 35.718 ms  
Loss rate: 18.28%  
-- Flow 1:  
Average throughput: 194.40 Mbit/s  
95th percentile per-packet one-way delay: 45.563 ms  
Loss rate: 23.60%  
-- Flow 2:  
Average throughput: 204.86 Mbit/s  
95th percentile per-packet one-way delay: 24.533 ms  
Loss rate: 12.39%  
-- Flow 3:  
Average throughput: 184.79 Mbit/s  
95th percentile per-packet one-way delay: 22.825 ms  
Loss rate: 14.84%



Run 1: Report of Verus — Data Link

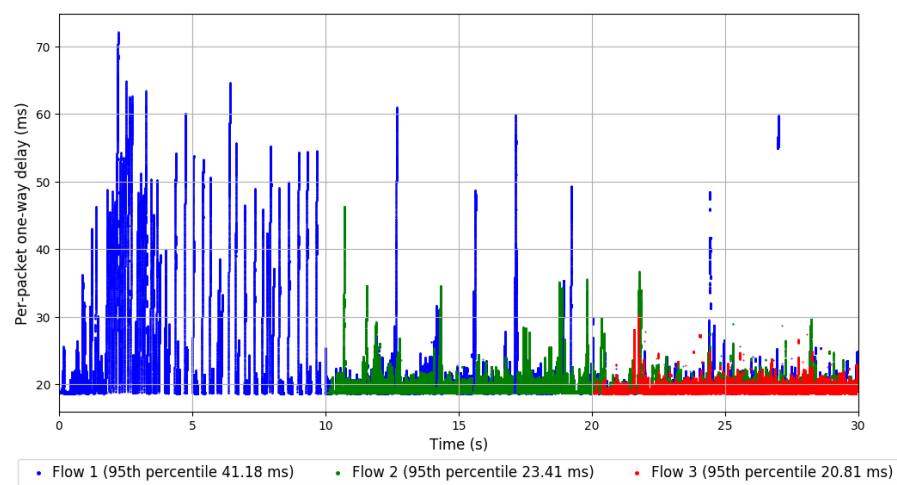
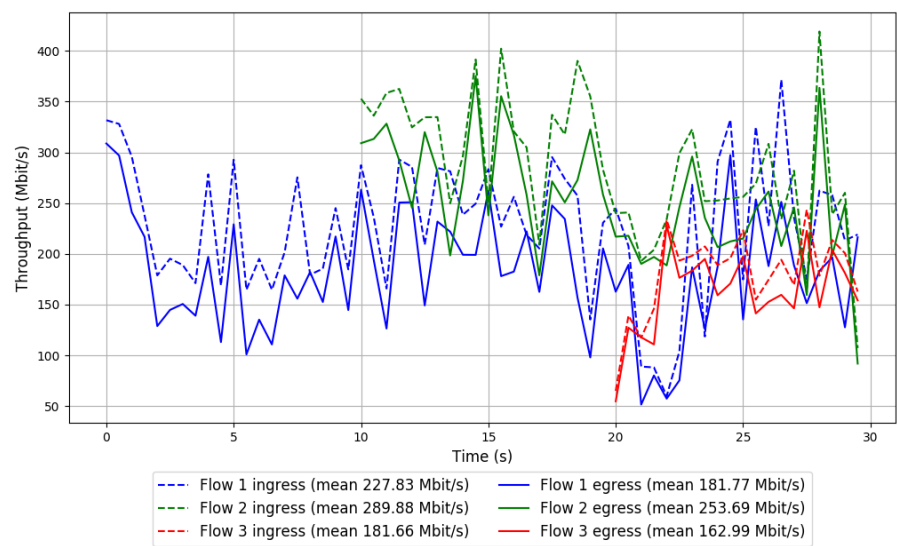


Run 2: Statistics of Verus

Start at: 2018-01-02 11:27:15  
End at: 2018-01-02 11:27:45  
Local clock offset: 1.42 ms  
Remote clock offset: -1.475 ms

# Below is generated by plot.py at 2018-01-02 18:01:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 404.38 Mbit/s  
95th percentile per-packet one-way delay: 29.462 ms  
Loss rate: 15.87%  
-- Flow 1:  
Average throughput: 181.77 Mbit/s  
95th percentile per-packet one-way delay: 41.180 ms  
Loss rate: 20.21%  
-- Flow 2:  
Average throughput: 253.69 Mbit/s  
95th percentile per-packet one-way delay: 23.409 ms  
Loss rate: 12.48%  
-- Flow 3:  
Average throughput: 162.99 Mbit/s  
95th percentile per-packet one-way delay: 20.809 ms  
Loss rate: 10.27%

Run 2: Report of Verus — Data Link

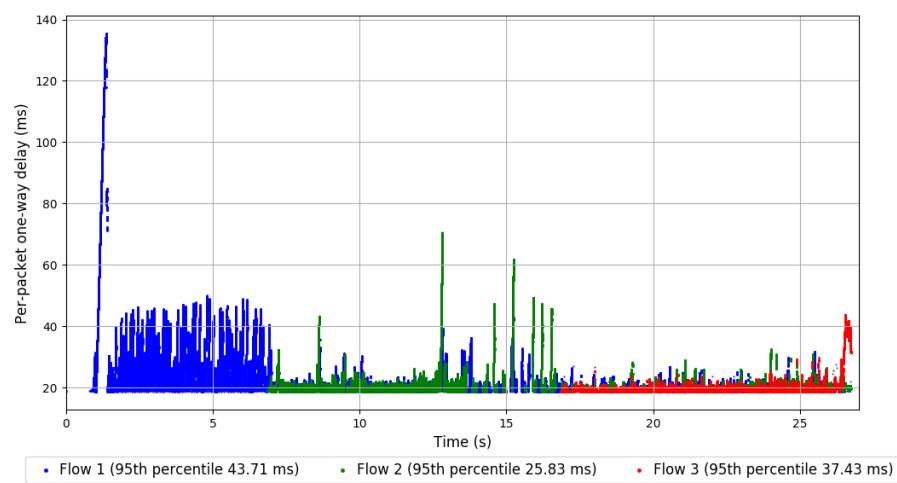
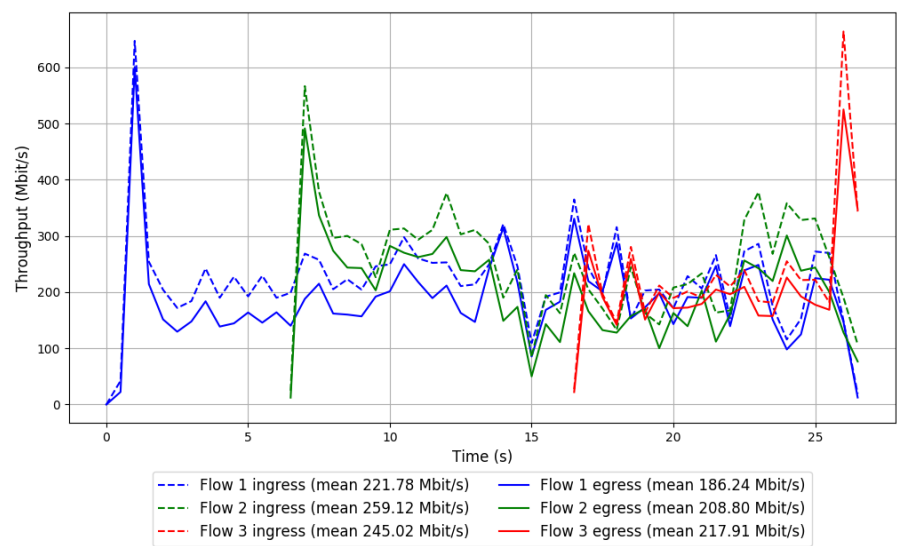


Run 3: Statistics of Verus

Start at: 2018-01-02 11:49:31  
End at: 2018-01-02 11:50:01  
Local clock offset: 1.41 ms  
Remote clock offset: -1.406 ms

# Below is generated by plot.py at 2018-01-02 18:01:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 422.74 Mbit/s  
95th percentile per-packet one-way delay: 37.582 ms  
Loss rate: 16.42%  
-- Flow 1:  
Average throughput: 186.24 Mbit/s  
95th percentile per-packet one-way delay: 43.709 ms  
Loss rate: 16.02%  
-- Flow 2:  
Average throughput: 208.80 Mbit/s  
95th percentile per-packet one-way delay: 25.832 ms  
Loss rate: 19.42%  
-- Flow 3:  
Average throughput: 217.91 Mbit/s  
95th percentile per-packet one-way delay: 37.432 ms  
Loss rate: 11.04%

Run 3: Report of Verus — Data Link

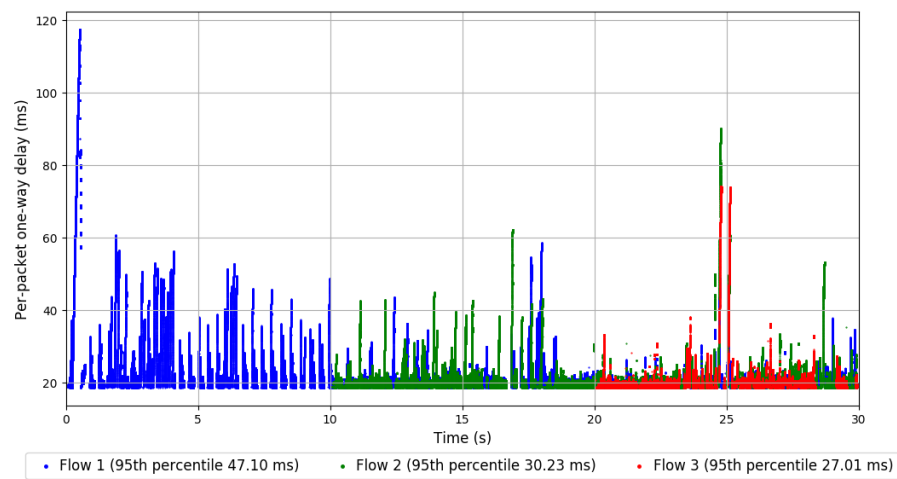
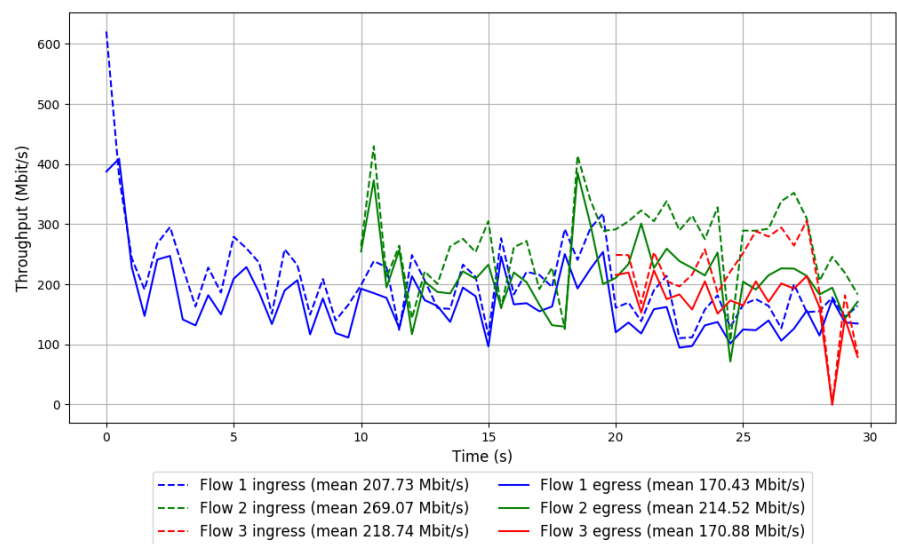


Run 4: Statistics of Verus

Start at: 2018-01-02 12:11:38  
End at: 2018-01-02 12:12:08  
Local clock offset: 1.502 ms  
Remote clock offset: -1.536 ms

# Below is generated by plot.py at 2018-01-02 18:02:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 369.69 Mbit/s  
95th percentile per-packet one-way delay: 37.651 ms  
Loss rate: 19.48%  
-- Flow 1:  
Average throughput: 170.43 Mbit/s  
95th percentile per-packet one-way delay: 47.099 ms  
Loss rate: 17.96%  
-- Flow 2:  
Average throughput: 214.52 Mbit/s  
95th percentile per-packet one-way delay: 30.227 ms  
Loss rate: 20.27%  
-- Flow 3:  
Average throughput: 170.88 Mbit/s  
95th percentile per-packet one-way delay: 27.013 ms  
Loss rate: 21.89%

Run 4: Report of Verus — Data Link



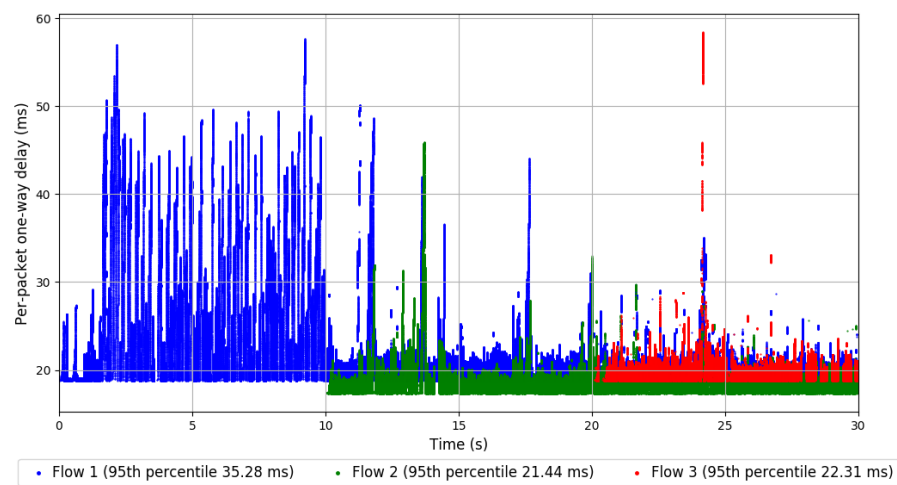
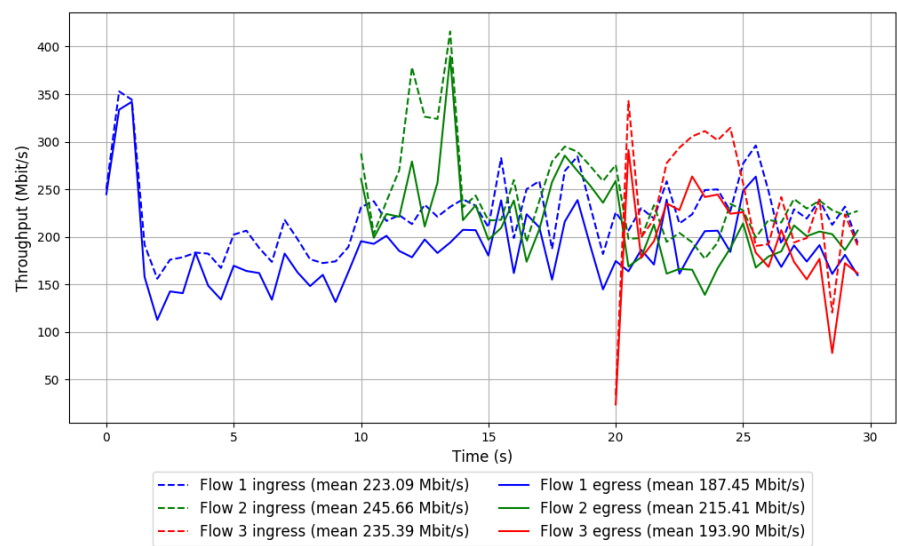
Run 5: Statistics of Verus

Start at: 2018-01-02 12:33:54  
End at: 2018-01-02 12:34:24  
Local clock offset: 1.49 ms  
Remote clock offset: -1.35 ms

# Below is generated by plot.py at 2018-01-02 18:03:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 394.65 Mbit/s  
95th percentile per-packet one-way delay: 28.559 ms  
Loss rate: 14.96%  
-- Flow 1:  
Average throughput: 187.45 Mbit/s  
95th percentile per-packet one-way delay: 35.284 ms  
Loss rate: 15.98%  
-- Flow 2:  
Average throughput: 215.41 Mbit/s  
95th percentile per-packet one-way delay: 21.438 ms  
Loss rate: 12.31%  
-- Flow 3:  
Average throughput: 193.90 Mbit/s  
95th percentile per-packet one-way delay: 22.308 ms  
Loss rate: 17.63%



Run 5: Report of Verus — Data Link

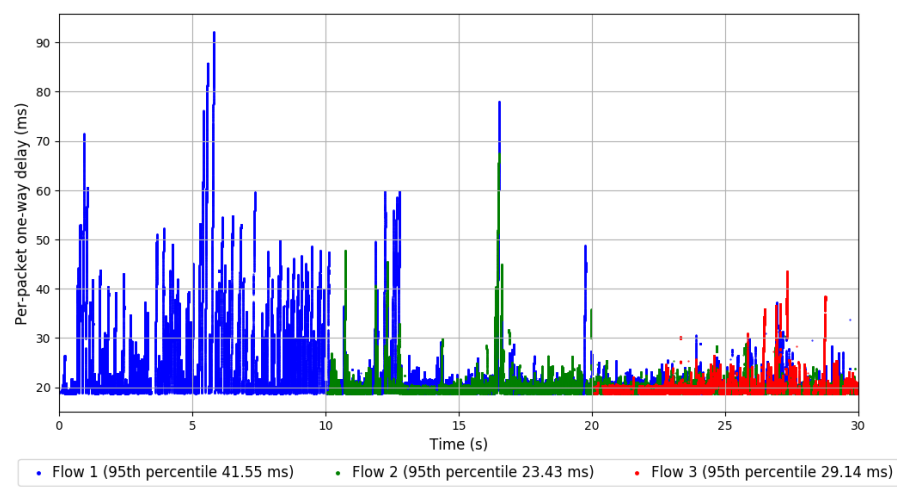
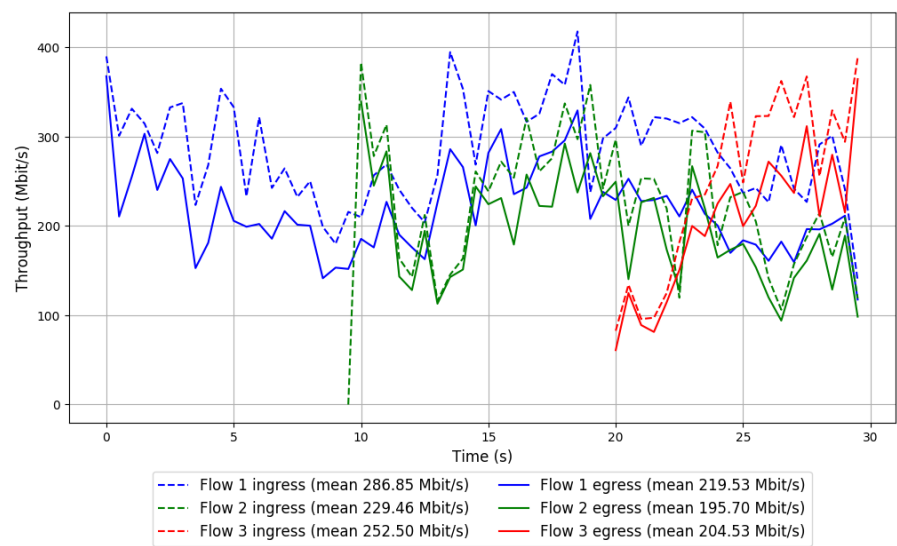


Run 6: Statistics of Verus

Start at: 2018-01-02 12:56:18  
End at: 2018-01-02 12:56:48  
Local clock offset: 1.465 ms  
Remote clock offset: -1.231 ms

# Below is generated by plot.py at 2018-01-02 18:03:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 417.51 Mbit/s  
95th percentile per-packet one-way delay: 35.659 ms  
Loss rate: 20.20%  
-- Flow 1:  
Average throughput: 219.53 Mbit/s  
95th percentile per-packet one-way delay: 41.554 ms  
Loss rate: 23.46%  
-- Flow 2:  
Average throughput: 195.70 Mbit/s  
95th percentile per-packet one-way delay: 23.430 ms  
Loss rate: 14.71%  
-- Flow 3:  
Average throughput: 204.53 Mbit/s  
95th percentile per-packet one-way delay: 29.138 ms  
Loss rate: 19.01%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

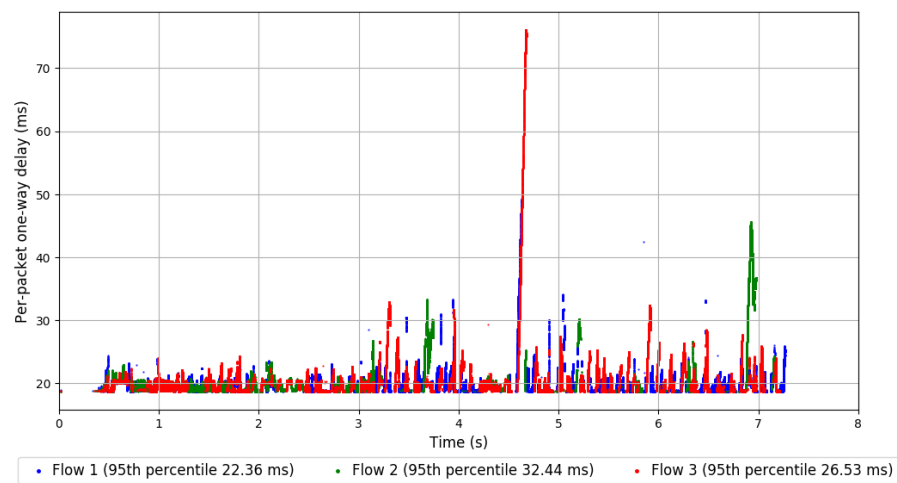
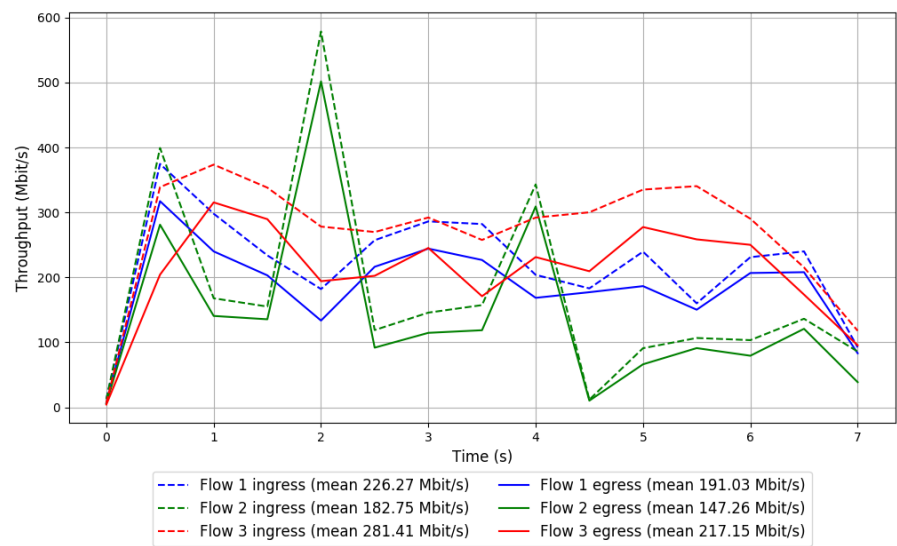
Start at: 2018-01-02 13:18:24

End at: 2018-01-02 13:18:54

Local clock offset: 1.647 ms

Remote clock offset: -1.34 ms

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-02 13:40:18

End at: 2018-01-02 13:40:48

Local clock offset: 1.597 ms

Remote clock offset: -1.47 ms

# Below is generated by plot.py at 2018-01-02 18:06:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 446.96 Mbit/s

95th percentile per-packet one-way delay: 27.859 ms

Loss rate: 19.78%

-- Flow 1:

Average throughput: 216.15 Mbit/s

95th percentile per-packet one-way delay: 30.724 ms

Loss rate: 20.65%

-- Flow 2:

Average throughput: 220.71 Mbit/s

95th percentile per-packet one-way delay: 27.953 ms

Loss rate: 19.95%

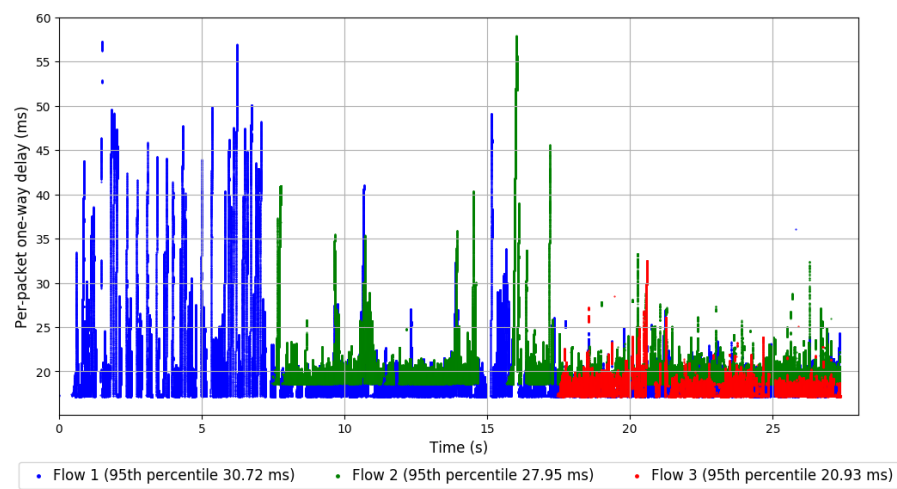
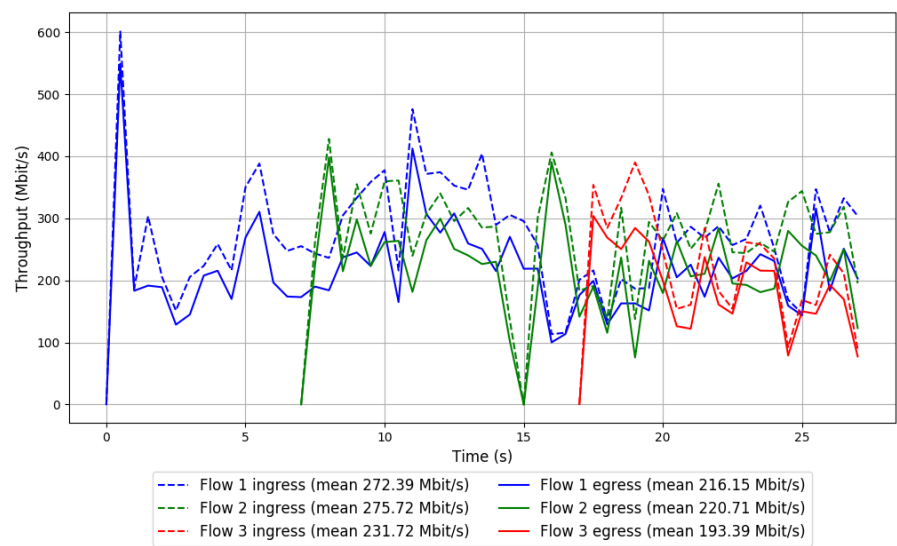
-- Flow 3:

Average throughput: 193.39 Mbit/s

95th percentile per-packet one-way delay: 20.927 ms

Loss rate: 16.56%

Run 8: Report of Verus — Data Link



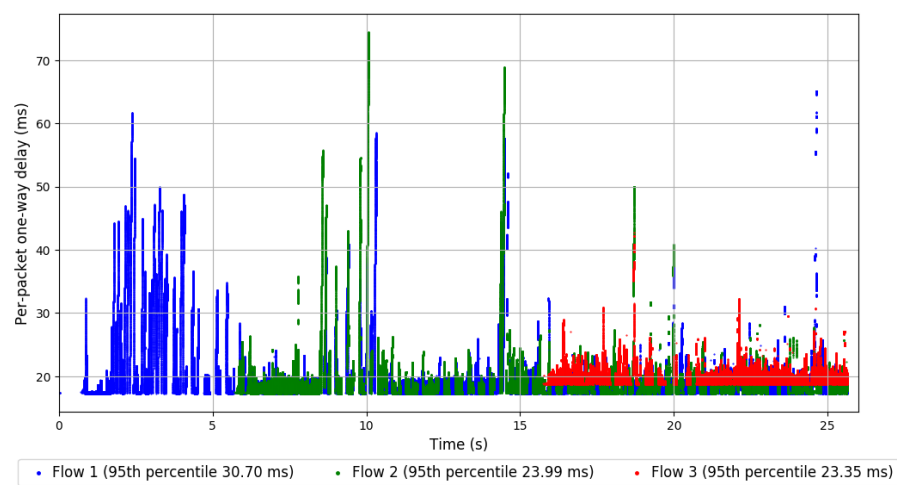
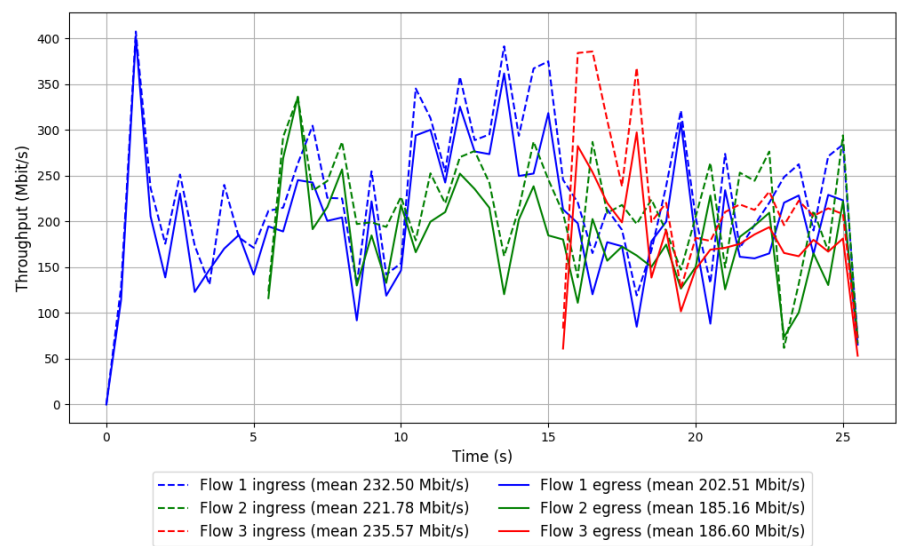
Run 9: Statistics of Verus

Start at: 2018-01-02 14:02:21  
End at: 2018-01-02 14:02:51  
Local clock offset: 1.448 ms  
Remote clock offset: -1.575 ms

# Below is generated by plot.py at 2018-01-02 18:06:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 418.47 Mbit/s  
95th percentile per-packet one-way delay: 26.140 ms  
Loss rate: 15.60%  
-- Flow 1:  
Average throughput: 202.51 Mbit/s  
95th percentile per-packet one-way delay: 30.699 ms  
Loss rate: 12.90%  
-- Flow 2:  
Average throughput: 185.16 Mbit/s  
95th percentile per-packet one-way delay: 23.988 ms  
Loss rate: 16.51%  
-- Flow 3:  
Average throughput: 186.60 Mbit/s  
95th percentile per-packet one-way delay: 23.347 ms  
Loss rate: 20.78%



Run 9: Report of Verus — Data Link

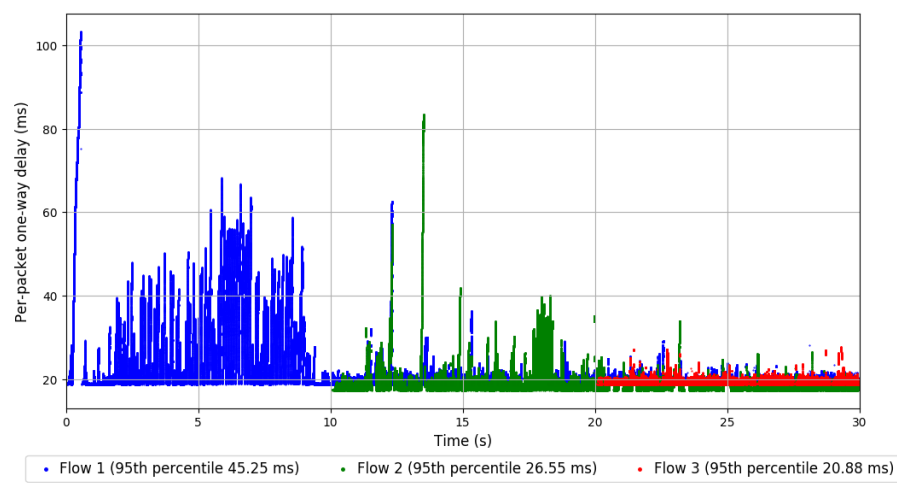
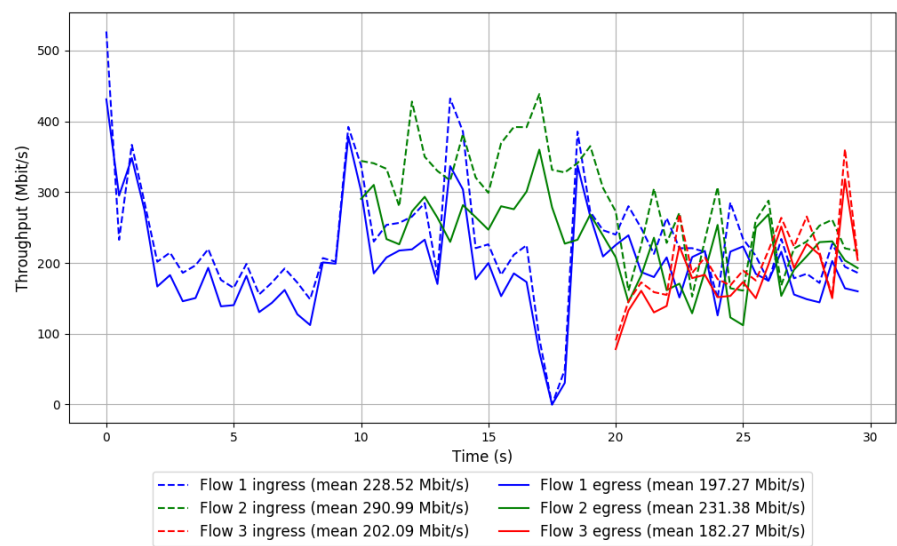


Run 10: Statistics of Verus

Start at: 2018-01-02 14:24:28  
End at: 2018-01-02 14:24:58  
Local clock offset: 1.404 ms  
Remote clock offset: -1.365 ms

# Below is generated by plot.py at 2018-01-02 18:06:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 411.34 Mbit/s  
95th percentile per-packet one-way delay: 34.254 ms  
Loss rate: 15.84%  
-- Flow 1:  
Average throughput: 197.27 Mbit/s  
95th percentile per-packet one-way delay: 45.248 ms  
Loss rate: 13.67%  
-- Flow 2:  
Average throughput: 231.38 Mbit/s  
95th percentile per-packet one-way delay: 26.552 ms  
Loss rate: 20.48%  
-- Flow 3:  
Average throughput: 182.27 Mbit/s  
95th percentile per-packet one-way delay: 20.884 ms  
Loss rate: 9.81%

Run 10: Report of Verus — Data Link

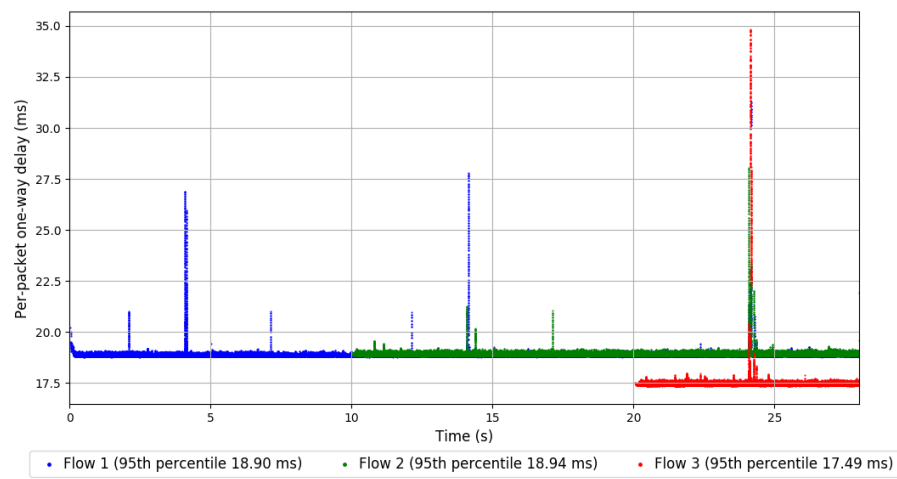
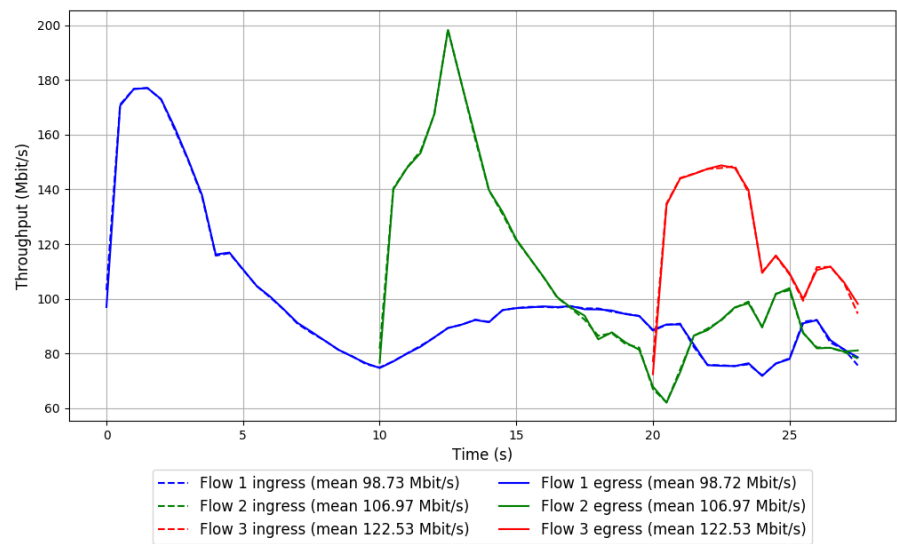


Run 1: Statistics of Copa

Start at: 2018-01-02 10:59:46  
End at: 2018-01-02 11:00:16  
Local clock offset: 1.225 ms  
Remote clock offset: -1.006 ms

# Below is generated by plot.py at 2018-01-02 18:06:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 202.11 Mbit/s  
95th percentile per-packet one-way delay: 18.914 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 98.72 Mbit/s  
95th percentile per-packet one-way delay: 18.898 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 106.97 Mbit/s  
95th percentile per-packet one-way delay: 18.941 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 122.53 Mbit/s  
95th percentile per-packet one-way delay: 17.492 ms  
Loss rate: 0.00%

Run 1: Report of Copa — Data Link

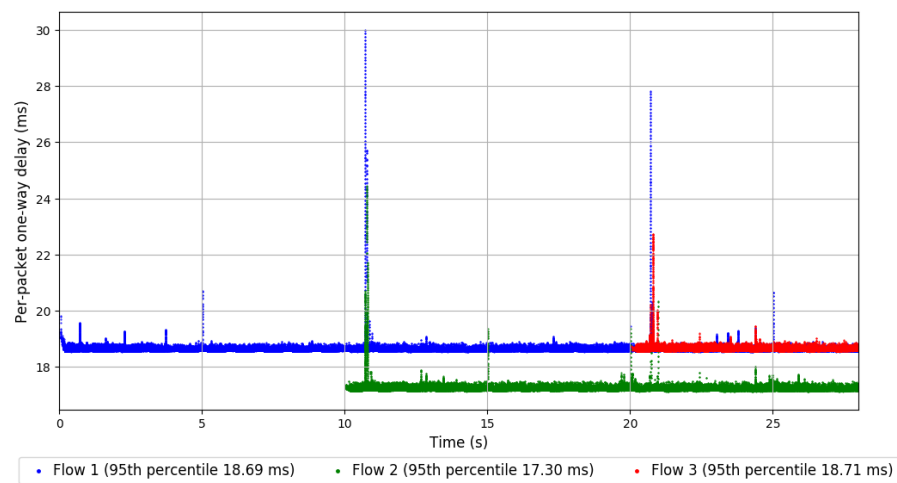
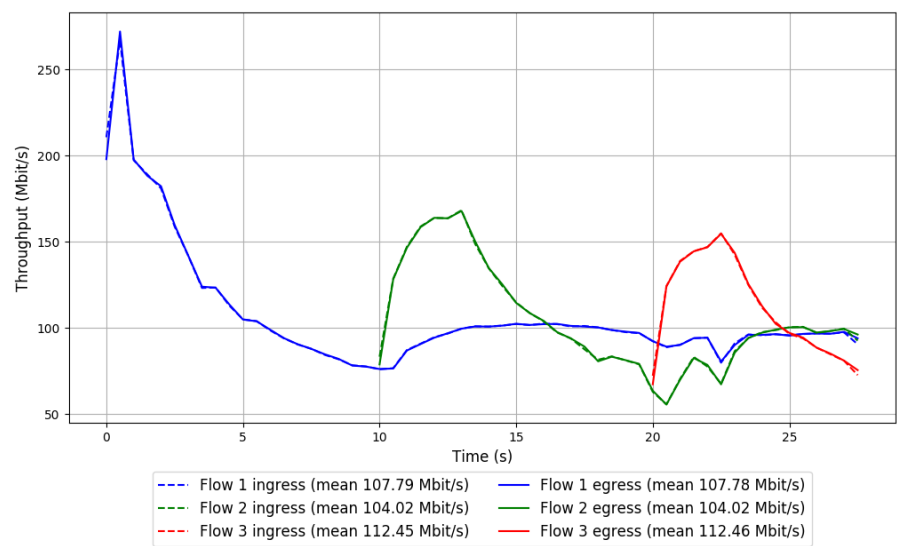


Run 2: Statistics of Copa

Start at: 2018-01-02 11:21:59  
End at: 2018-01-02 11:22:29  
Local clock offset: 1.406 ms  
Remote clock offset: -1.572 ms

# Below is generated by plot.py at 2018-01-02 18:06:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 206.42 Mbit/s  
95th percentile per-packet one-way delay: 18.681 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 107.78 Mbit/s  
95th percentile per-packet one-way delay: 18.694 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 104.02 Mbit/s  
95th percentile per-packet one-way delay: 17.296 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 112.46 Mbit/s  
95th percentile per-packet one-way delay: 18.710 ms  
Loss rate: 0.00%

Run 2: Report of Copa — Data Link



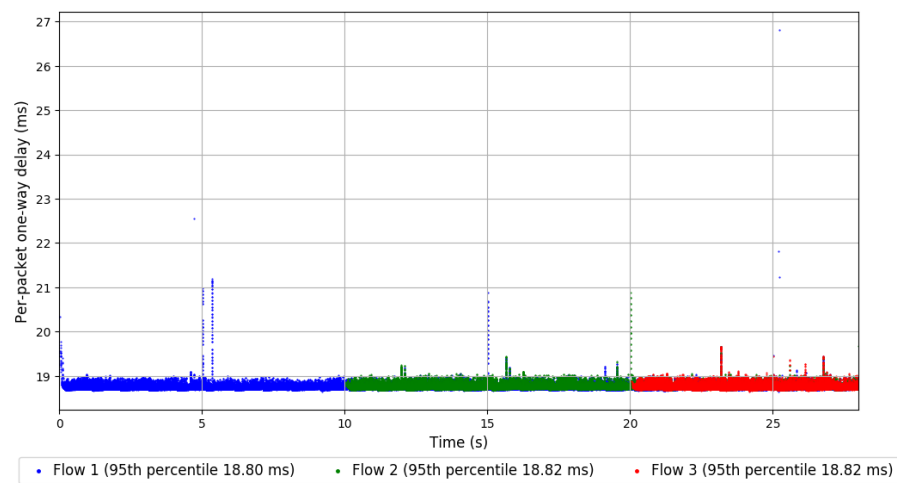
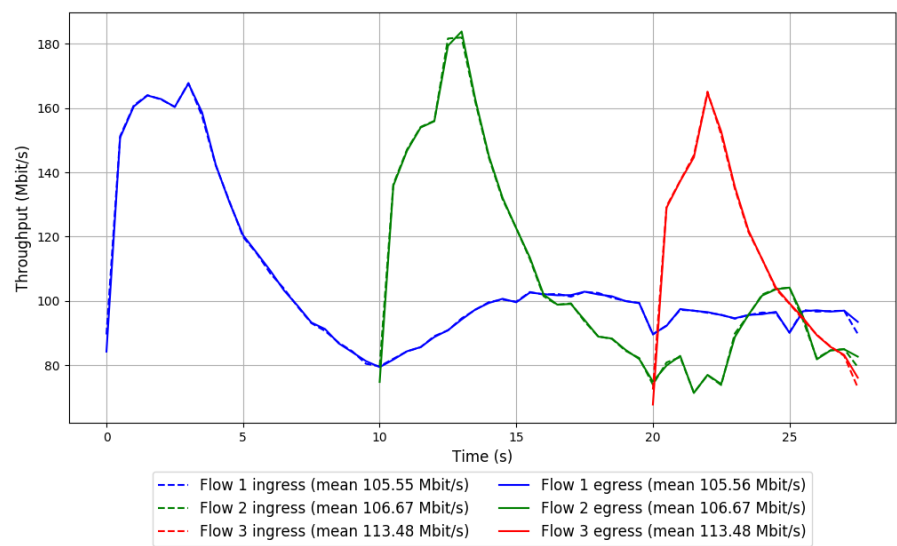
Run 3: Statistics of Copa

Start at: 2018-01-02 11:44:19  
End at: 2018-01-02 11:44:49  
Local clock offset: 1.397 ms  
Remote clock offset: -1.412 ms

# Below is generated by plot.py at 2018-01-02 18:07:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 206.16 Mbit/s  
95th percentile per-packet one-way delay: 18.812 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 105.56 Mbit/s  
95th percentile per-packet one-way delay: 18.804 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 106.67 Mbit/s  
95th percentile per-packet one-way delay: 18.815 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 113.48 Mbit/s  
95th percentile per-packet one-way delay: 18.825 ms  
Loss rate: 0.00%



Run 3: Report of Copa — Data Link

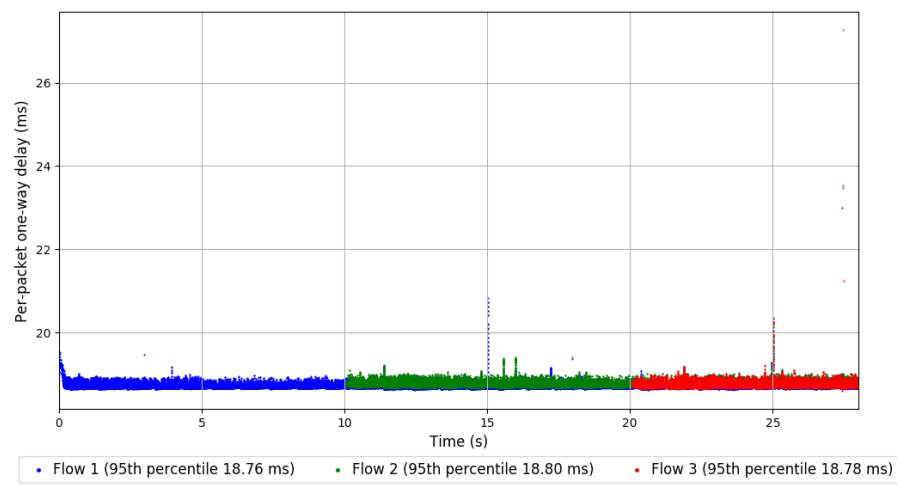
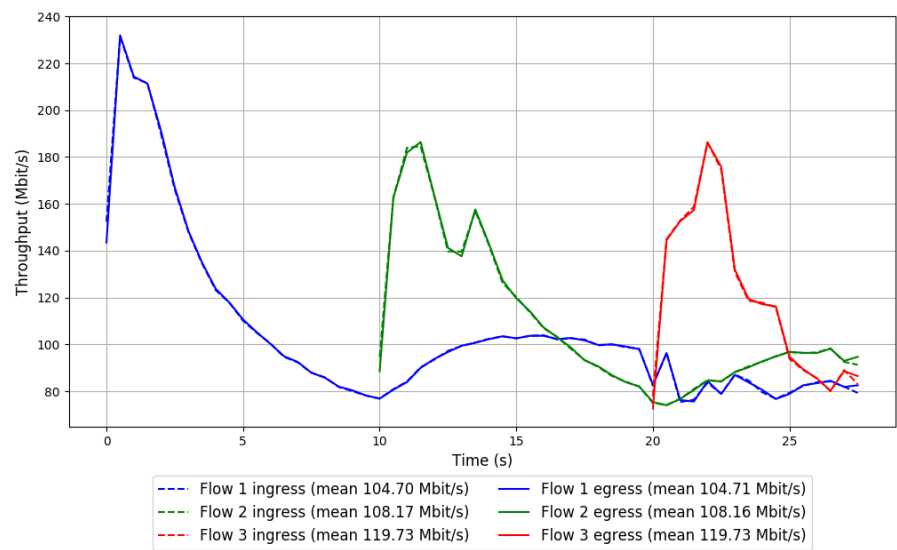


Run 4: Statistics of Copa

Start at: 2018-01-02 12:06:24  
End at: 2018-01-02 12:06:54  
Local clock offset: 1.568 ms  
Remote clock offset: -1.442 ms

```
# Below is generated by plot.py at 2018-01-02 18:08:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 208.09 Mbit/s
95th percentile per-packet one-way delay: 18.782 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 104.71 Mbit/s
95th percentile per-packet one-way delay: 18.764 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 108.16 Mbit/s
95th percentile per-packet one-way delay: 18.801 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 119.73 Mbit/s
95th percentile per-packet one-way delay: 18.781 ms
Loss rate: 0.00%
```

Run 4: Report of Copa — Data Link

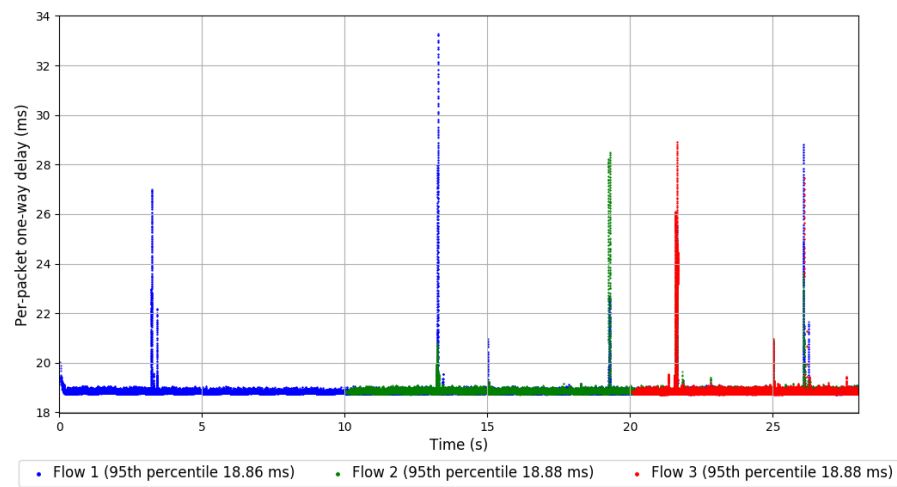
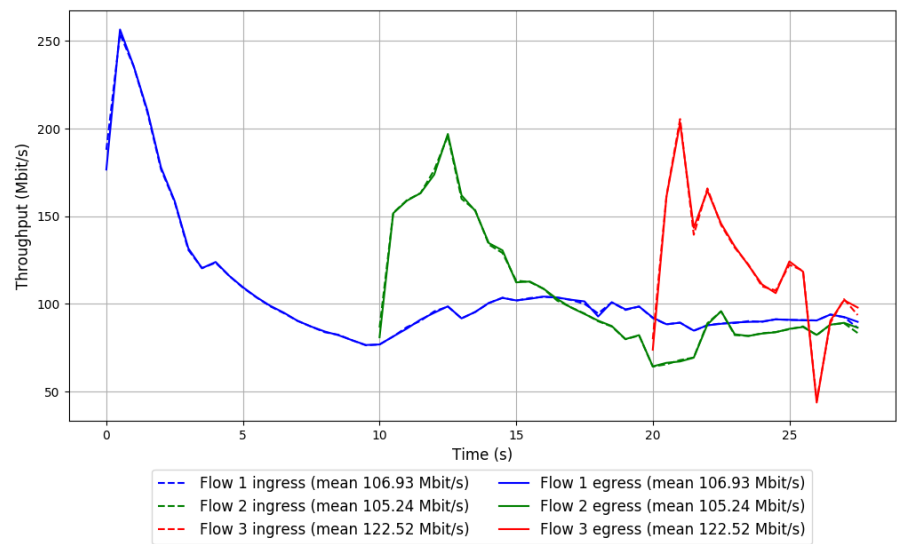


Run 5: Statistics of Copa

Start at: 2018-01-02 12:28:35  
End at: 2018-01-02 12:29:05  
Local clock offset: 1.47 ms  
Remote clock offset: -1.442 ms

# Below is generated by plot.py at 2018-01-02 18:08:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 209.16 Mbit/s  
95th percentile per-packet one-way delay: 18.871 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 106.93 Mbit/s  
95th percentile per-packet one-way delay: 18.863 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 105.24 Mbit/s  
95th percentile per-packet one-way delay: 18.877 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 122.52 Mbit/s  
95th percentile per-packet one-way delay: 18.882 ms  
Loss rate: 0.00%

Run 5: Report of Copa — Data Link

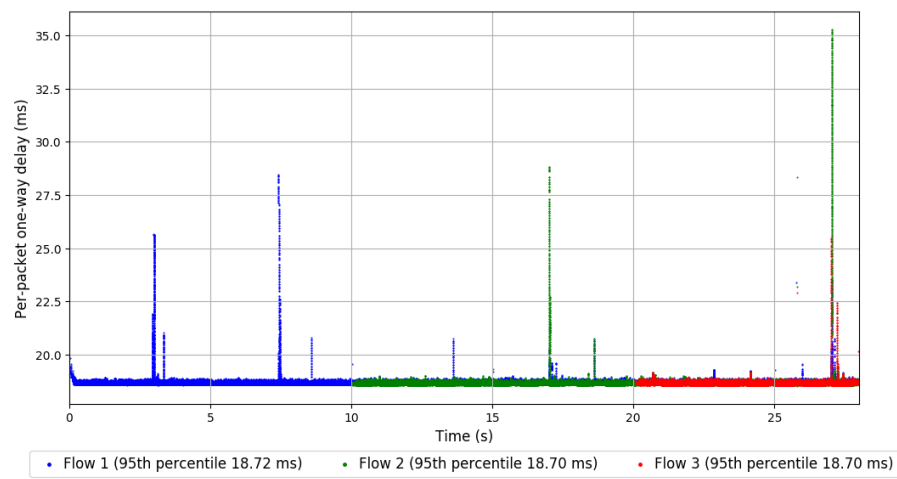
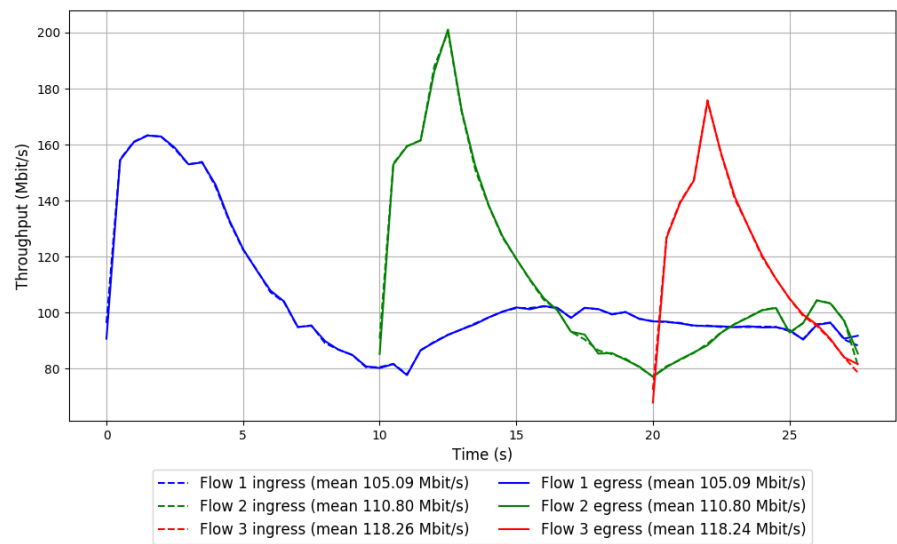


Run 6: Statistics of Copa

Start at: 2018-01-02 12:51:01  
End at: 2018-01-02 12:51:31  
Local clock offset: 1.55 ms  
Remote clock offset: -1.314 ms

# Below is generated by plot.py at 2018-01-02 18:10:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 209.76 Mbit/s  
95th percentile per-packet one-way delay: 18.708 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 105.09 Mbit/s  
95th percentile per-packet one-way delay: 18.716 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 110.80 Mbit/s  
95th percentile per-packet one-way delay: 18.700 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 118.24 Mbit/s  
95th percentile per-packet one-way delay: 18.700 ms  
Loss rate: 0.00%

Run 6: Report of Copa — Data Link



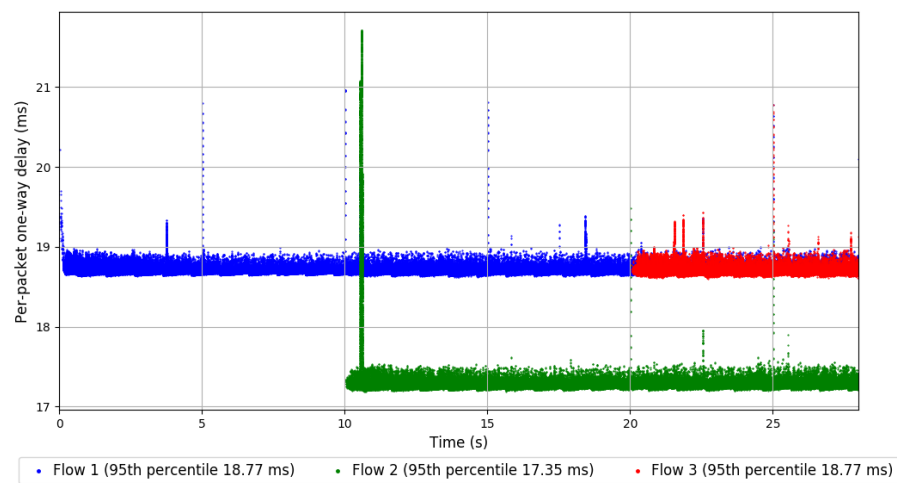
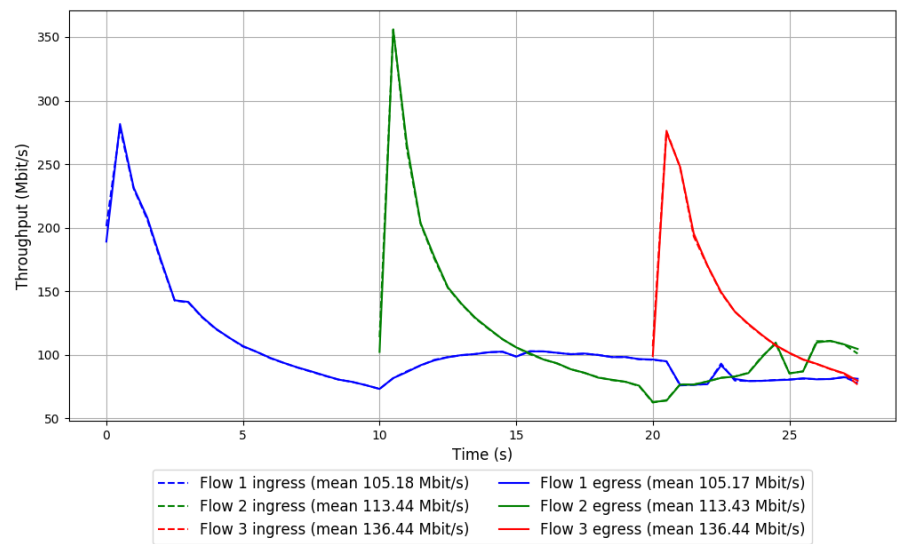
Run 7: Statistics of Copa

Start at: 2018-01-02 13:13:10  
End at: 2018-01-02 13:13:40  
Local clock offset: 1.61 ms  
Remote clock offset: -1.359 ms

# Below is generated by plot.py at 2018-01-02 18:11:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 216.67 Mbit/s  
95th percentile per-packet one-way delay: 18.760 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 105.17 Mbit/s  
95th percentile per-packet one-way delay: 18.775 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 113.43 Mbit/s  
95th percentile per-packet one-way delay: 17.349 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 136.44 Mbit/s  
95th percentile per-packet one-way delay: 18.774 ms  
Loss rate: 0.00%



Run 7: Report of Copa — Data Link

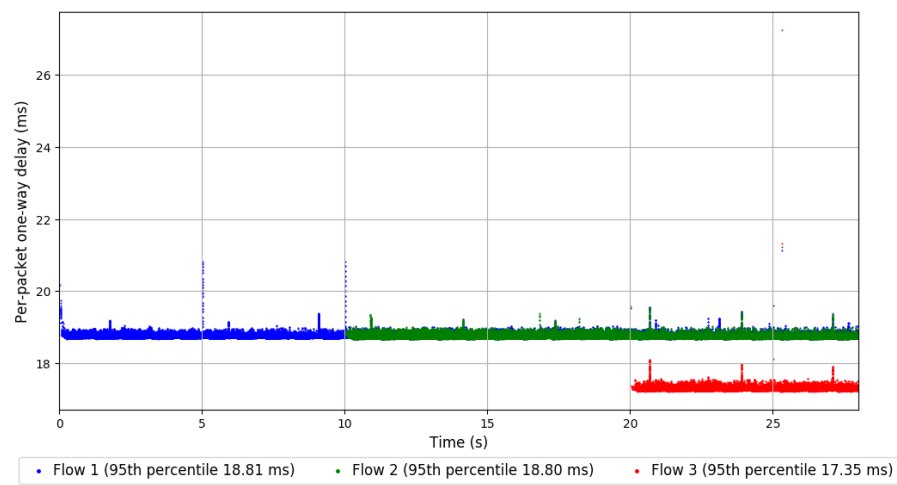
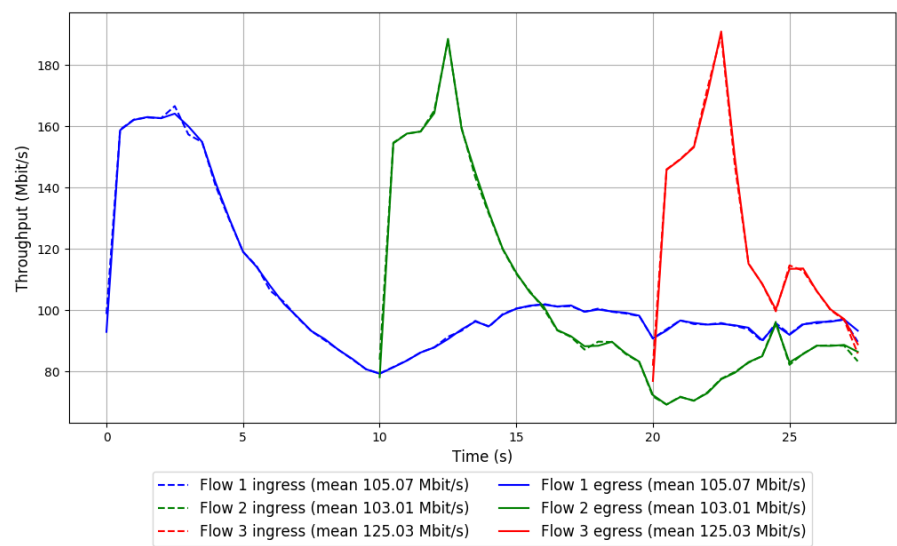


Run 8: Statistics of Copa

Start at: 2018-01-02 13:35:07  
End at: 2018-01-02 13:35:37  
Local clock offset: 1.518 ms  
Remote clock offset: -1.395 ms

```
# Below is generated by plot.py at 2018-01-02 18:11:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 206.58 Mbit/s
95th percentile per-packet one-way delay: 18.801 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 105.07 Mbit/s
95th percentile per-packet one-way delay: 18.810 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 103.01 Mbit/s
95th percentile per-packet one-way delay: 18.804 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 125.03 Mbit/s
95th percentile per-packet one-way delay: 17.353 ms
Loss rate: 0.00%
```

Run 8: Report of Copa — Data Link

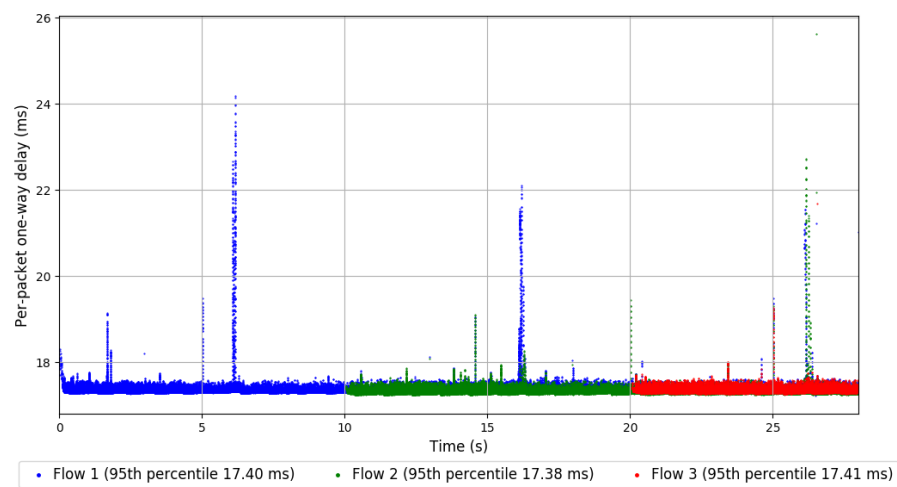
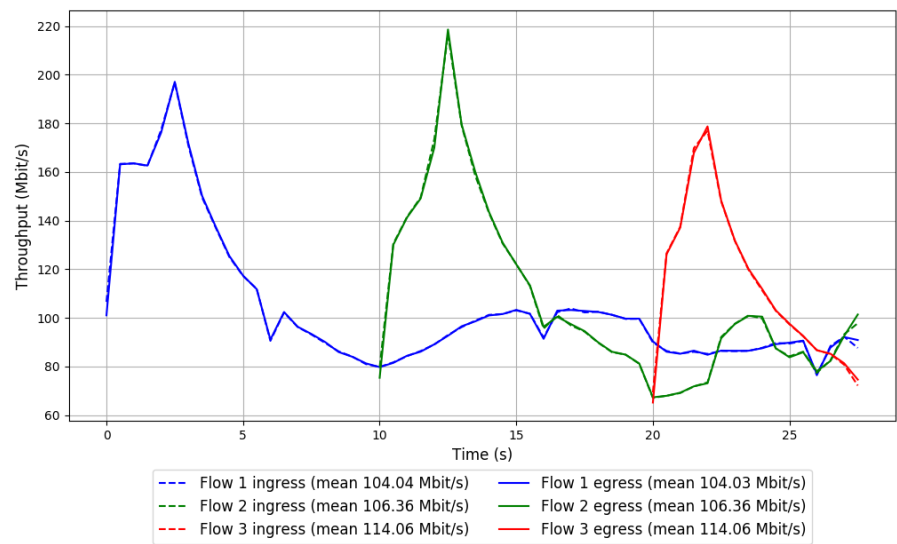


Run 9: Statistics of Copa

Start at: 2018-01-02 13:57:07  
End at: 2018-01-02 13:57:37  
Local clock offset: 1.458 ms  
Remote clock offset: -1.628 ms

# Below is generated by plot.py at 2018-01-02 18:11:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 204.58 Mbit/s  
95th percentile per-packet one-way delay: 17.397 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 104.03 Mbit/s  
95th percentile per-packet one-way delay: 17.403 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 106.36 Mbit/s  
95th percentile per-packet one-way delay: 17.378 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 114.06 Mbit/s  
95th percentile per-packet one-way delay: 17.407 ms  
Loss rate: 0.00%

Run 9: Report of Copa — Data Link

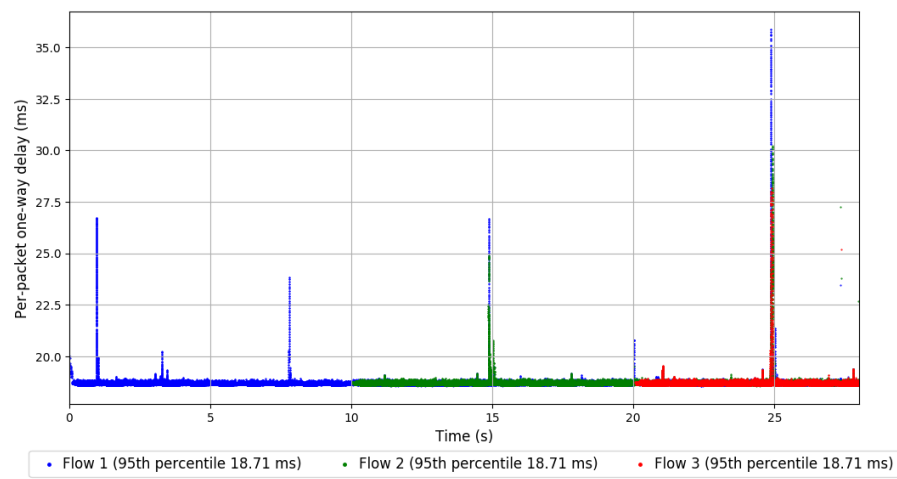
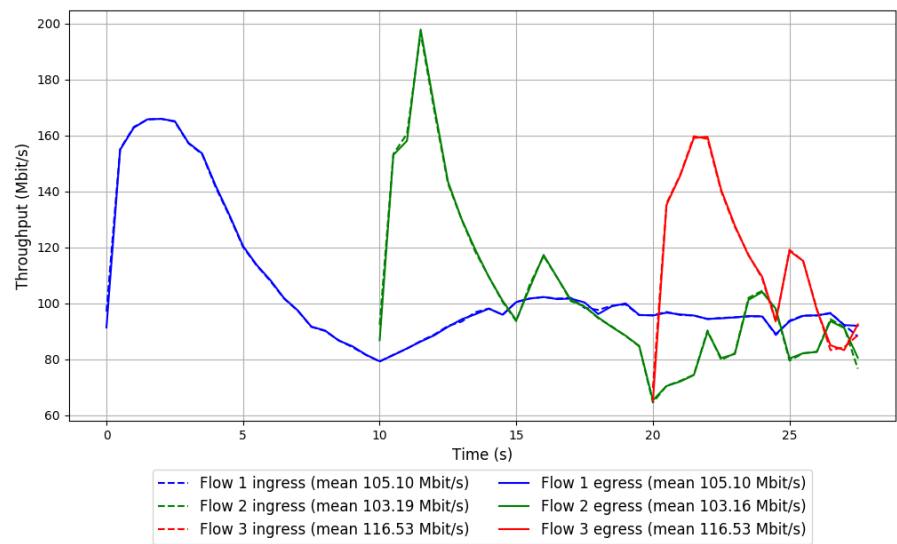


Run 10: Statistics of Copa

Start at: 2018-01-02 14:19:08  
End at: 2018-01-02 14:19:38  
Local clock offset: 1.504 ms  
Remote clock offset: -1.489 ms

# Below is generated by plot.py at 2018-01-02 18:11:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 204.34 Mbit/s  
95th percentile per-packet one-way delay: 18.710 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 105.10 Mbit/s  
95th percentile per-packet one-way delay: 18.709 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 103.16 Mbit/s  
95th percentile per-packet one-way delay: 18.712 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 116.53 Mbit/s  
95th percentile per-packet one-way delay: 18.710 ms  
Loss rate: 0.00%

Run 10: Report of Copa — Data Link



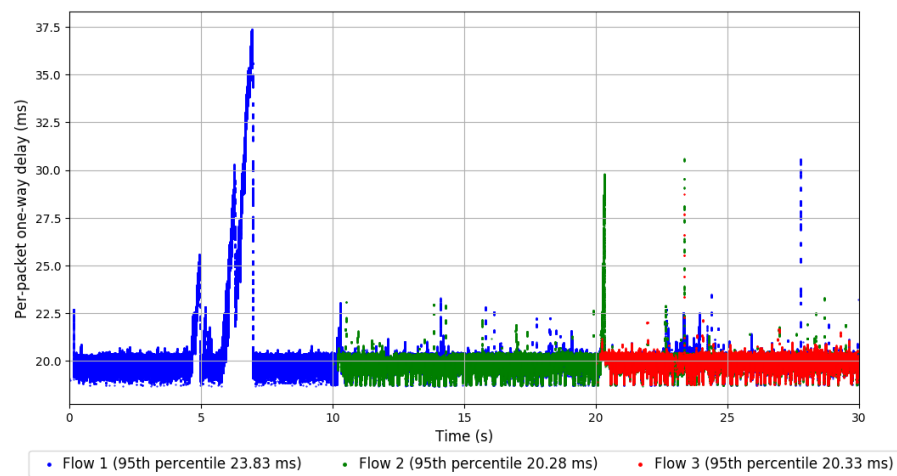
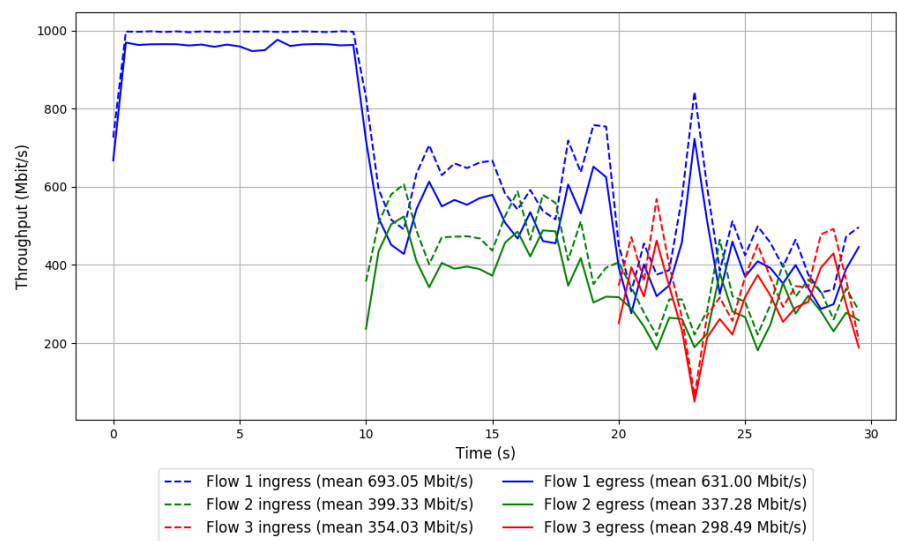
Run 1: Statistics of FillP

Start at: 2018-01-02 11:12:48  
End at: 2018-01-02 11:13:18  
Local clock offset: 1.307 ms  
Remote clock offset: -1.528 ms

# Below is generated by plot.py at 2018-01-02 18:21:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 954.48 Mbit/s  
95th percentile per-packet one-way delay: 21.381 ms  
Loss rate: 11.31%  
-- Flow 1:  
Average throughput: 631.00 Mbit/s  
95th percentile per-packet one-way delay: 23.830 ms  
Loss rate: 8.94%  
-- Flow 2:  
Average throughput: 337.28 Mbit/s  
95th percentile per-packet one-way delay: 20.282 ms  
Loss rate: 15.54%  
-- Flow 3:  
Average throughput: 298.49 Mbit/s  
95th percentile per-packet one-way delay: 20.328 ms  
Loss rate: 15.68%



Run 1: Report of FillP — Data Link

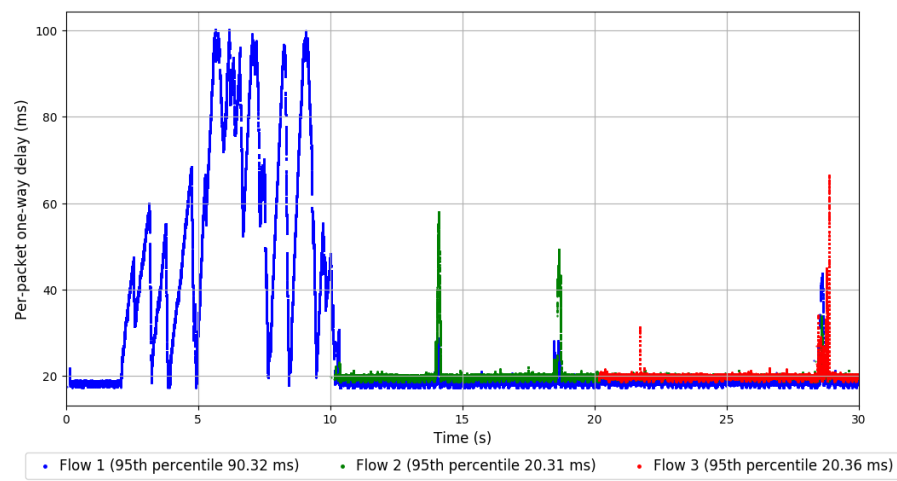
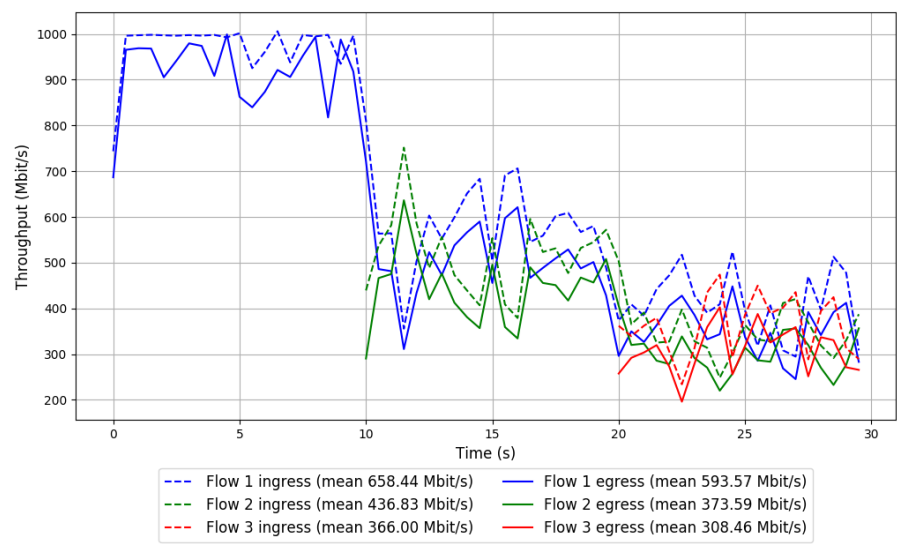


Run 2: Statistics of FillP

Start at: 2018-01-02 11:35:08  
End at: 2018-01-02 11:35:38  
Local clock offset: 1.394 ms  
Remote clock offset: -1.511 ms

# Below is generated by plot.py at 2018-01-02 18:23:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 944.65 Mbit/s  
95th percentile per-packet one-way delay: 83.057 ms  
Loss rate: 11.77%  
-- Flow 1:  
Average throughput: 593.57 Mbit/s  
95th percentile per-packet one-way delay: 90.324 ms  
Loss rate: 9.85%  
-- Flow 2:  
Average throughput: 373.59 Mbit/s  
95th percentile per-packet one-way delay: 20.311 ms  
Loss rate: 14.48%  
-- Flow 3:  
Average throughput: 308.46 Mbit/s  
95th percentile per-packet one-way delay: 20.361 ms  
Loss rate: 15.72%

Run 2: Report of FillP — Data Link

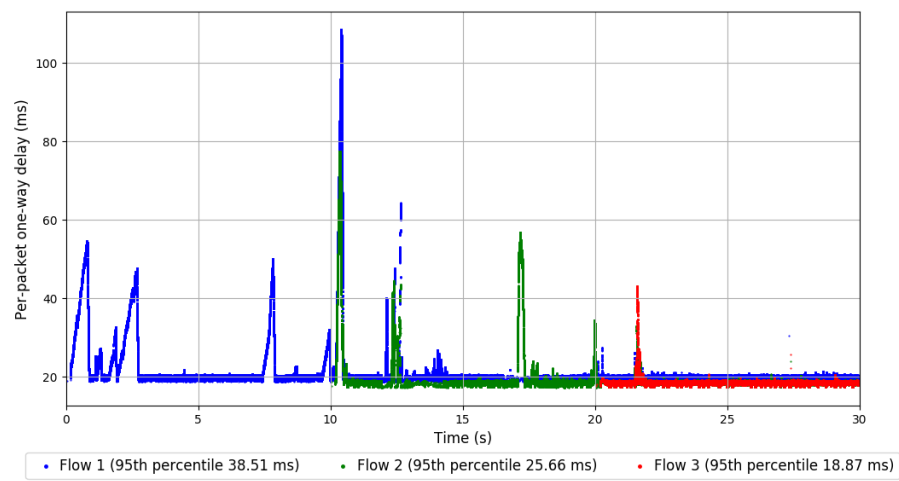
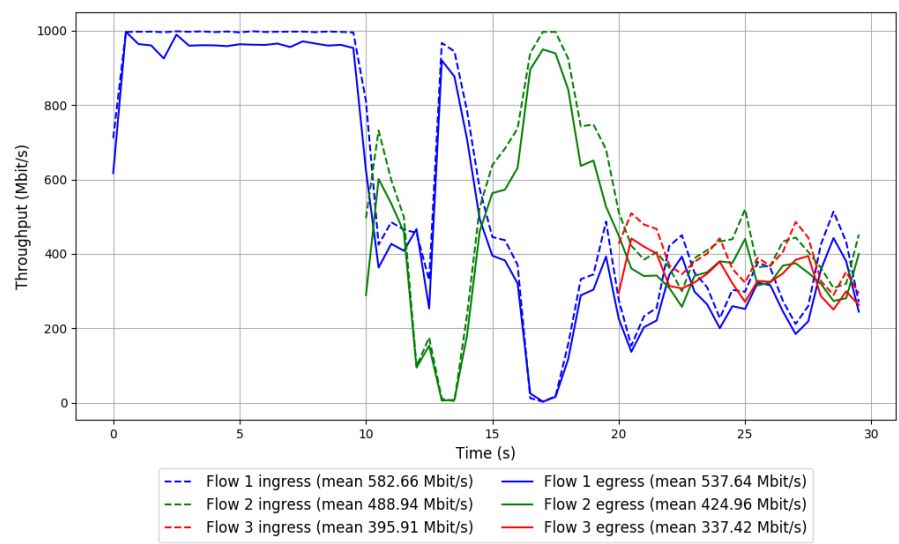


Run 3: Statistics of FillP

Start at: 2018-01-02 11:57:16  
End at: 2018-01-02 11:57:46  
Local clock offset: 1.544 ms  
Remote clock offset: -1.413 ms

# Below is generated by plot.py at 2018-01-02 18:23:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 932.32 Mbit/s  
95th percentile per-packet one-way delay: 33.624 ms  
Loss rate: 10.29%  
-- Flow 1:  
Average throughput: 537.64 Mbit/s  
95th percentile per-packet one-way delay: 38.508 ms  
Loss rate: 7.73%  
-- Flow 2:  
Average throughput: 424.96 Mbit/s  
95th percentile per-packet one-way delay: 25.665 ms  
Loss rate: 13.08%  
-- Flow 3:  
Average throughput: 337.42 Mbit/s  
95th percentile per-packet one-way delay: 18.866 ms  
Loss rate: 14.76%

Run 3: Report of FillP — Data Link

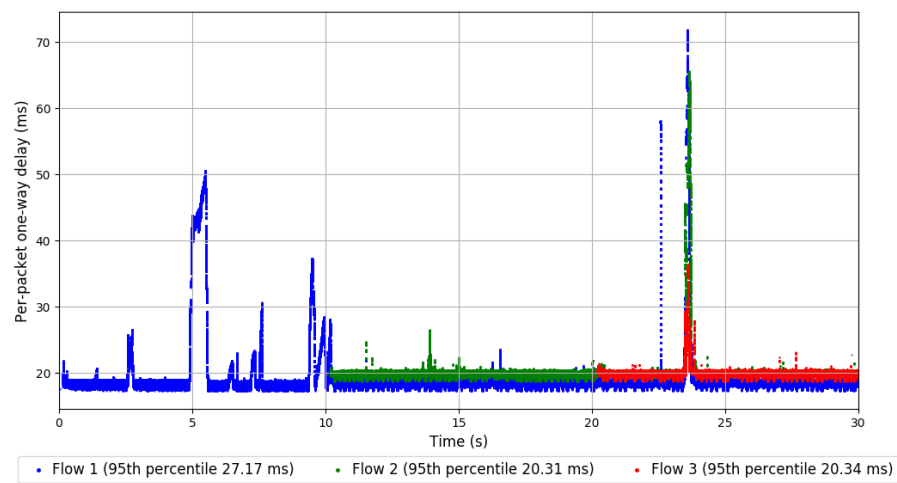
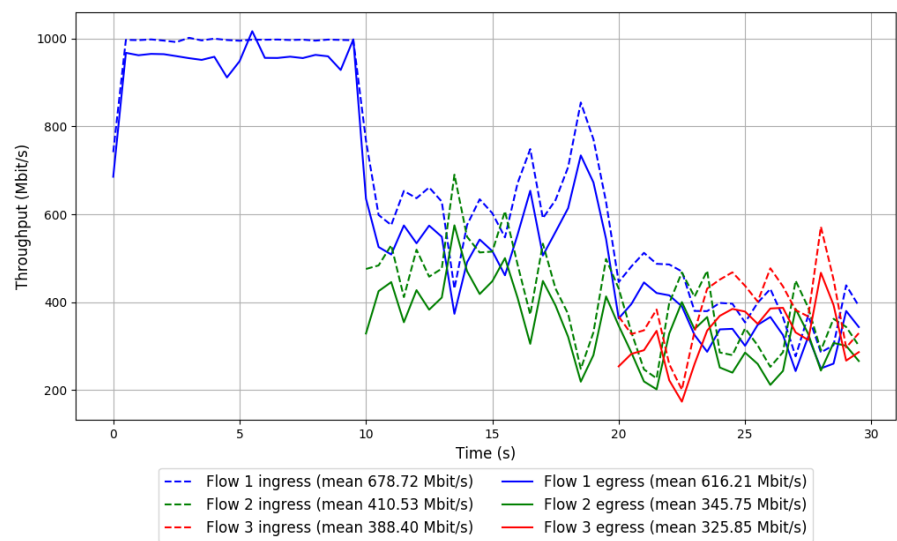


Run 4: Statistics of FillP

Start at: 2018-01-02 12:19:26  
End at: 2018-01-02 12:19:56  
Local clock offset: 1.536 ms  
Remote clock offset: -1.527 ms

# Below is generated by plot.py at 2018-01-02 18:25:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 954.32 Mbit/s  
95th percentile per-packet one-way delay: 23.143 ms  
Loss rate: 11.69%  
-- Flow 1:  
Average throughput: 616.21 Mbit/s  
95th percentile per-packet one-way delay: 27.172 ms  
Loss rate: 9.21%  
-- Flow 2:  
Average throughput: 345.75 Mbit/s  
95th percentile per-packet one-way delay: 20.313 ms  
Loss rate: 15.78%  
-- Flow 3:  
Average throughput: 325.85 Mbit/s  
95th percentile per-packet one-way delay: 20.340 ms  
Loss rate: 16.10%

Run 4: Report of FillP — Data Link



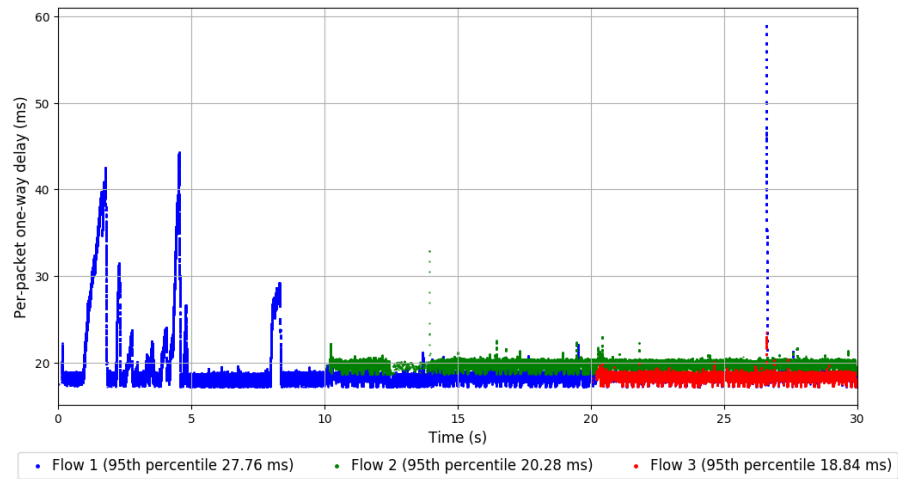
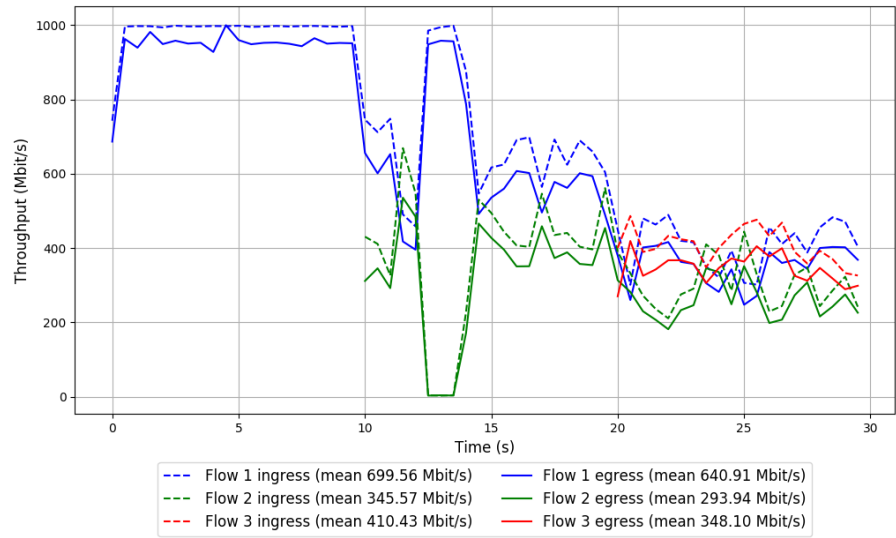
Run 5: Statistics of FillP

Start at: 2018-01-02 12:41:51  
End at: 2018-01-02 12:42:21  
Local clock offset: 1.474 ms  
Remote clock offset: -1.409 ms

# Below is generated by plot.py at 2018-01-02 18:26:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 951.86 Mbit/s  
95th percentile per-packet one-way delay: 23.868 ms  
Loss rate: 10.67%  
-- Flow 1:  
Average throughput: 640.91 Mbit/s  
95th percentile per-packet one-way delay: 27.759 ms  
Loss rate: 8.38%  
-- Flow 2:  
Average throughput: 293.94 Mbit/s  
95th percentile per-packet one-way delay: 20.284 ms  
Loss rate: 14.94%  
-- Flow 3:  
Average throughput: 348.10 Mbit/s  
95th percentile per-packet one-way delay: 18.838 ms  
Loss rate: 15.19%



## Run 5: Report of FillP — Data Link

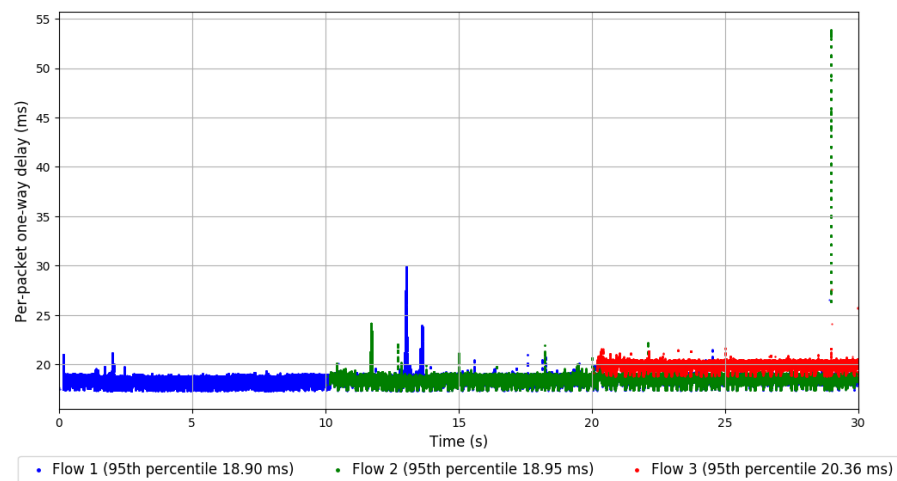
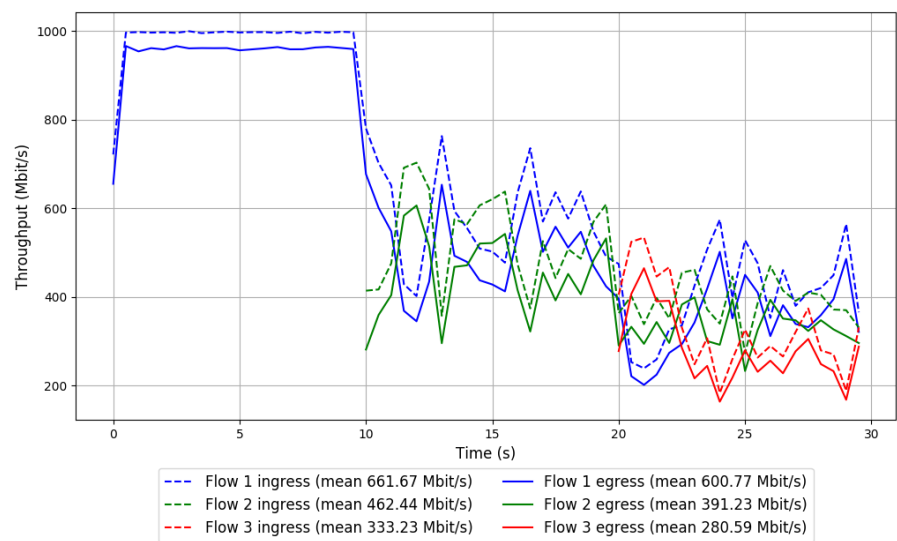


Run 6: Statistics of FillP

Start at: 2018-01-02 13:04:01  
End at: 2018-01-02 13:04:31  
Local clock offset: 1.502 ms  
Remote clock offset: -1.248 ms

# Below is generated by plot.py at 2018-01-02 18:27:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 954.01 Mbit/s  
95th percentile per-packet one-way delay: 20.082 ms  
Loss rate: 11.64%  
-- Flow 1:  
Average throughput: 600.77 Mbit/s  
95th percentile per-packet one-way delay: 18.898 ms  
Loss rate: 9.20%  
-- Flow 2:  
Average throughput: 391.23 Mbit/s  
95th percentile per-packet one-way delay: 18.949 ms  
Loss rate: 15.40%  
-- Flow 3:  
Average throughput: 280.59 Mbit/s  
95th percentile per-packet one-way delay: 20.364 ms  
Loss rate: 15.75%

Run 6: Report of FillP — Data Link

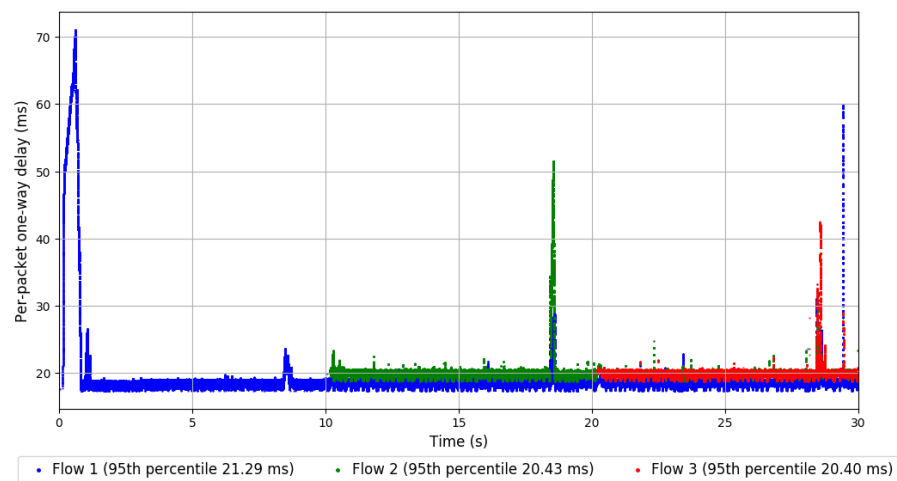
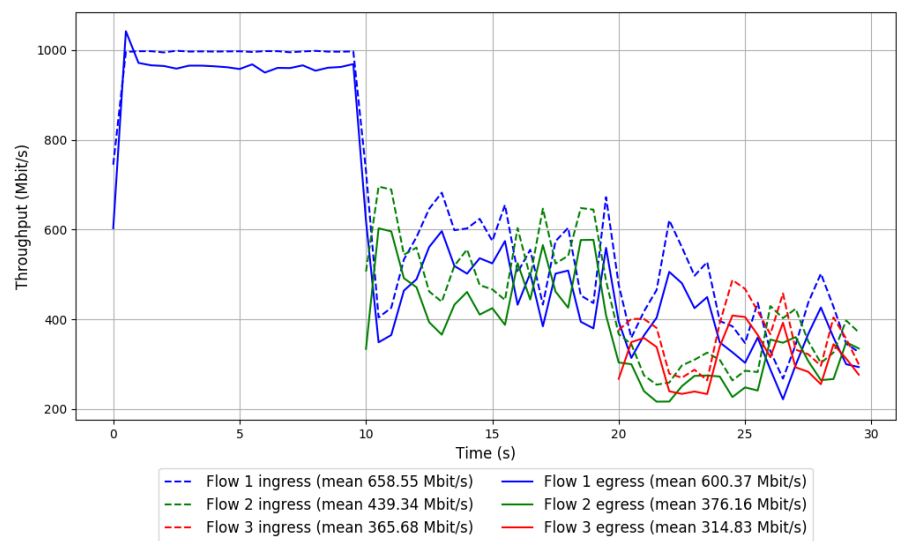


Run 7: Statistics of FillP

Start at: 2018-01-02 13:25:56  
End at: 2018-01-02 13:26:26  
Local clock offset: 1.562 ms  
Remote clock offset: -1.381 ms

# Below is generated by plot.py at 2018-01-02 18:27:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 955.00 Mbit/s  
95th percentile per-packet one-way delay: 20.456 ms  
Loss rate: 10.92%  
-- Flow 1:  
Average throughput: 600.37 Mbit/s  
95th percentile per-packet one-way delay: 21.288 ms  
Loss rate: 8.83%  
-- Flow 2:  
Average throughput: 376.16 Mbit/s  
95th percentile per-packet one-way delay: 20.430 ms  
Loss rate: 14.37%  
-- Flow 3:  
Average throughput: 314.83 Mbit/s  
95th percentile per-packet one-way delay: 20.404 ms  
Loss rate: 13.92%

Run 7: Report of FillP — Data Link

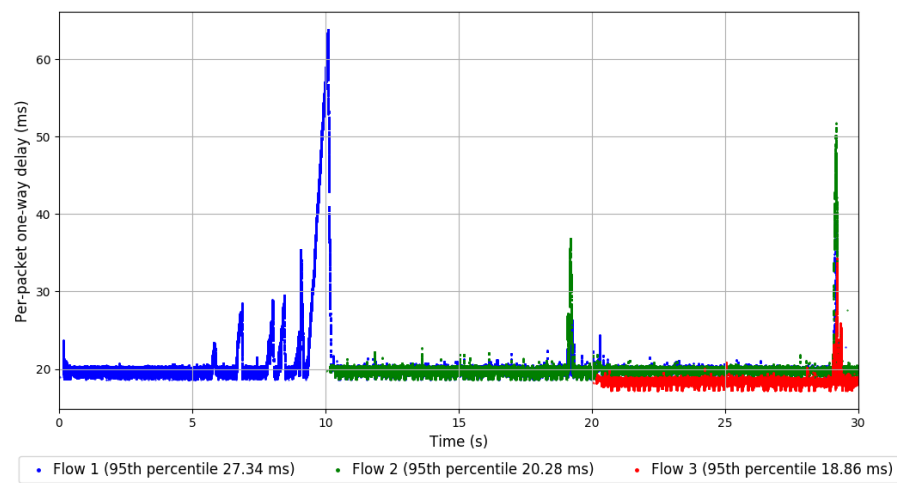
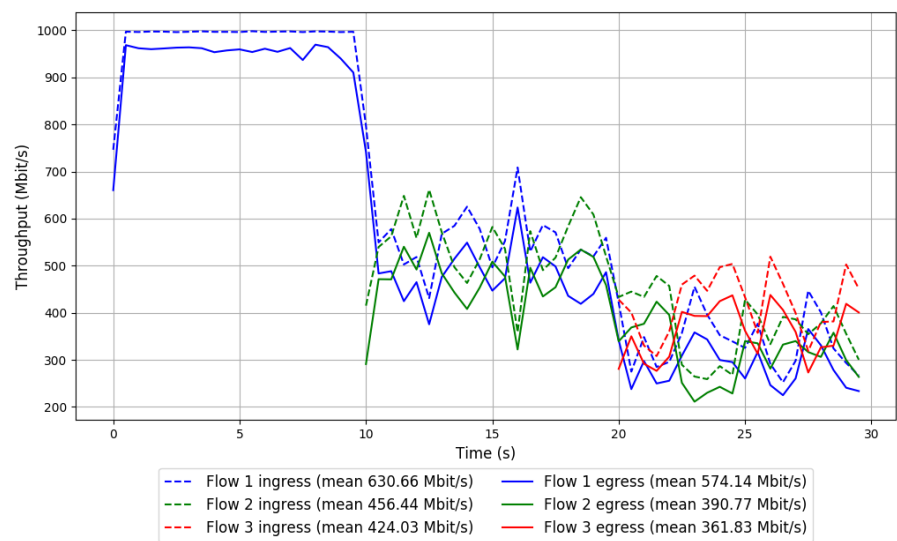


Run 8: Statistics of FillP

Start at: 2018-01-02 13:48:06  
End at: 2018-01-02 13:48:36  
Local clock offset: 1.555 ms  
Remote clock offset: -1.536 ms

# Below is generated by plot.py at 2018-01-02 18:27:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 954.17 Mbit/s  
95th percentile per-packet one-way delay: 23.763 ms  
Loss rate: 11.24%  
-- Flow 1:  
Average throughput: 574.14 Mbit/s  
95th percentile per-packet one-way delay: 27.345 ms  
Loss rate: 8.96%  
-- Flow 2:  
Average throughput: 390.77 Mbit/s  
95th percentile per-packet one-way delay: 20.279 ms  
Loss rate: 14.39%  
-- Flow 3:  
Average throughput: 361.83 Mbit/s  
95th percentile per-packet one-way delay: 18.858 ms  
Loss rate: 14.67%

Run 8: Report of FillP — Data Link



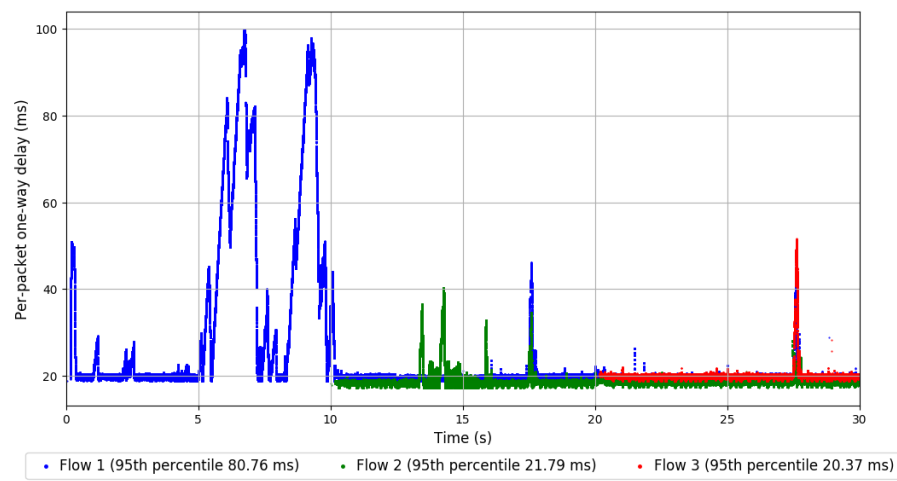
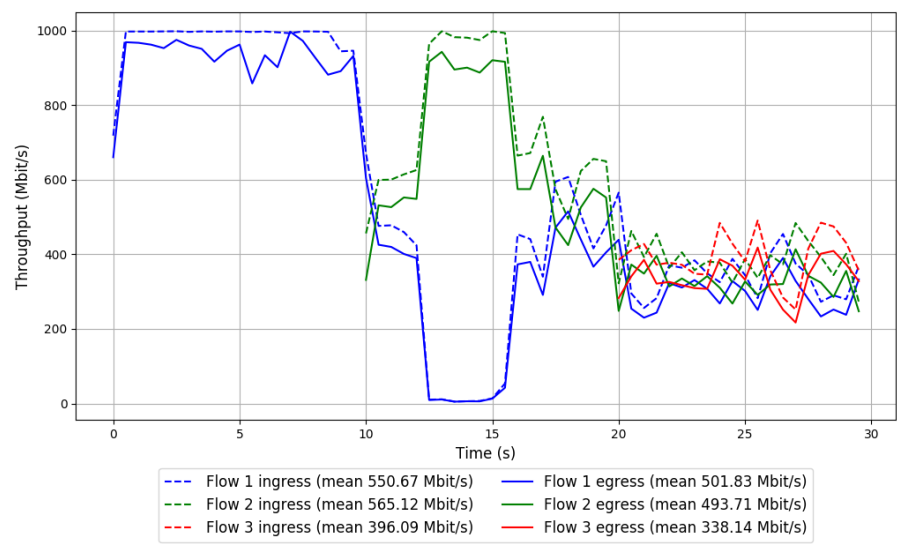
Run 9: Statistics of FillP

Start at: 2018-01-02 14:09:57  
End at: 2018-01-02 14:10:27  
Local clock offset: 1.434 ms  
Remote clock offset: -1.515 ms

# Below is generated by plot.py at 2018-01-02 18:35:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 942.90 Mbit/s  
95th percentile per-packet one-way delay: 67.615 ms  
Loss rate: 10.92%  
-- Flow 1:  
Average throughput: 501.83 Mbit/s  
95th percentile per-packet one-way delay: 80.756 ms  
Loss rate: 8.86%  
-- Flow 2:  
Average throughput: 493.71 Mbit/s  
95th percentile per-packet one-way delay: 21.788 ms  
Loss rate: 12.63%  
-- Flow 3:  
Average throughput: 338.14 Mbit/s  
95th percentile per-packet one-way delay: 20.373 ms  
Loss rate: 14.63%



Run 9: Report of FillP — Data Link

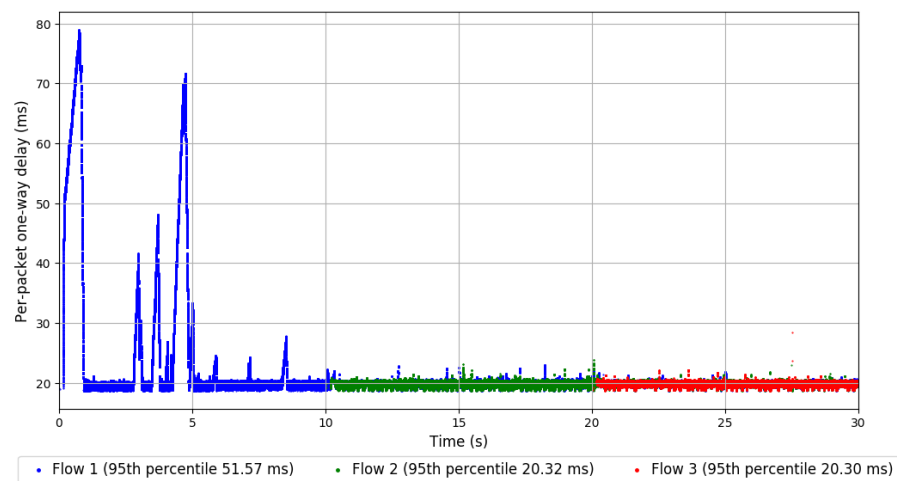
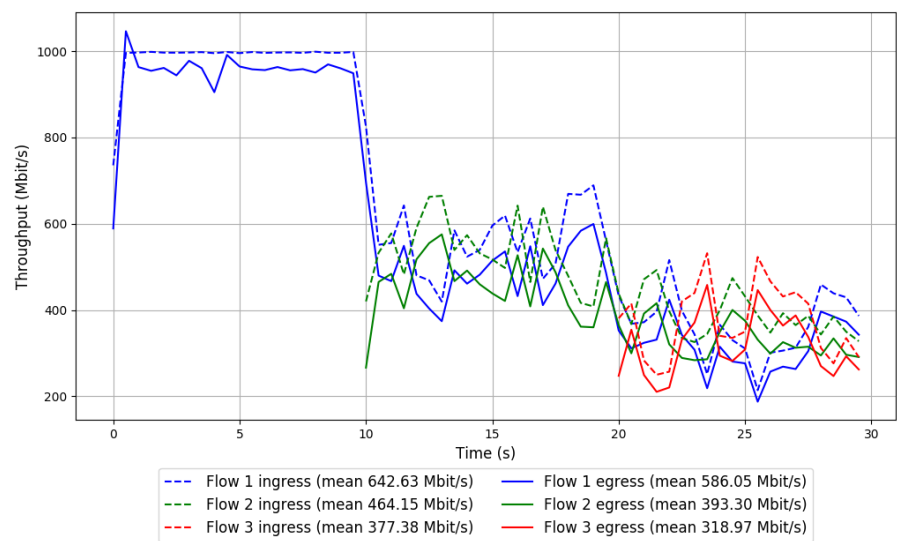


Run 10: Statistics of FillP

Start at: 2018-01-02 14:32:20  
End at: 2018-01-02 14:32:50  
Local clock offset: 1.451 ms  
Remote clock offset: -1.387 ms

# Below is generated by plot.py at 2018-01-02 18:35:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 953.67 Mbit/s  
95th percentile per-packet one-way delay: 32.242 ms  
Loss rate: 11.43%  
-- Flow 1:  
Average throughput: 586.05 Mbit/s  
95th percentile per-packet one-way delay: 51.568 ms  
Loss rate: 8.80%  
-- Flow 2:  
Average throughput: 393.30 Mbit/s  
95th percentile per-packet one-way delay: 20.316 ms  
Loss rate: 15.26%  
-- Flow 3:  
Average throughput: 318.97 Mbit/s  
95th percentile per-packet one-way delay: 20.295 ms  
Loss rate: 15.47%

Run 10: Report of FillP — Data Link

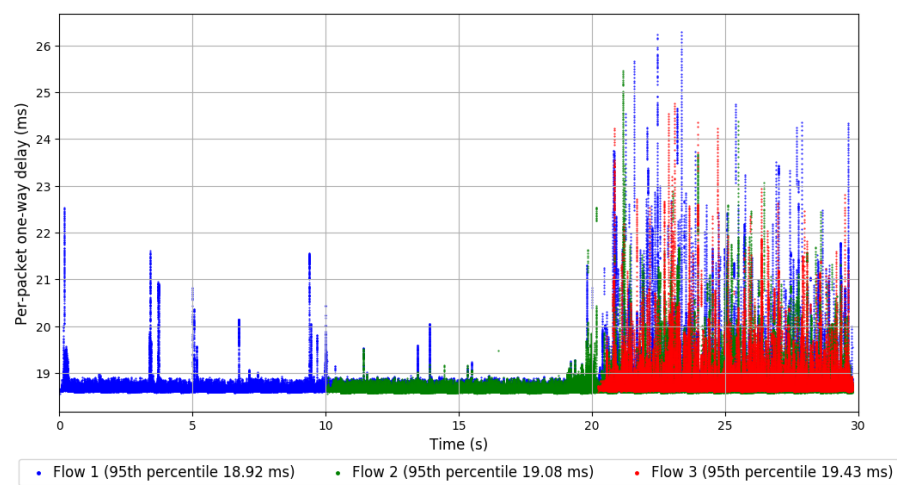
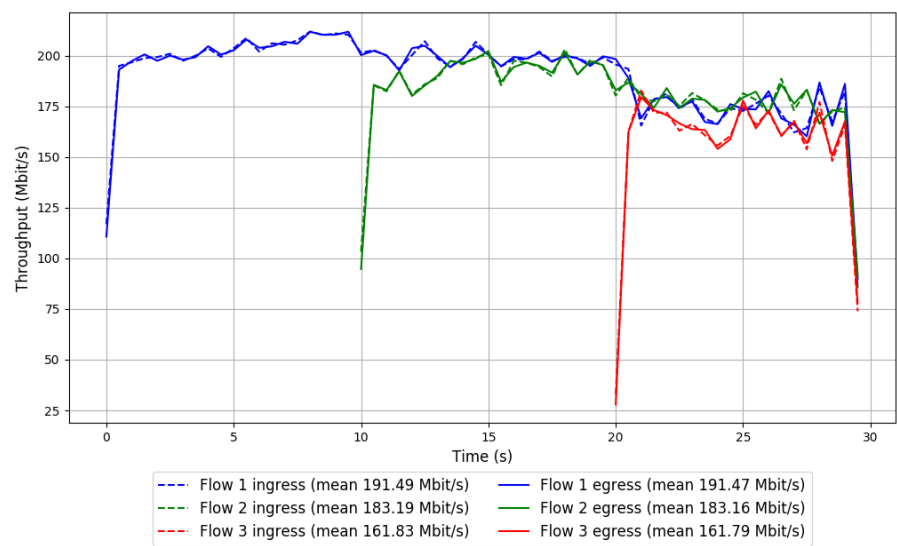


Run 1: Statistics of Indigo

Start at: 2018-01-02 11:17:31  
End at: 2018-01-02 11:18:01  
Local clock offset: 1.407 ms  
Remote clock offset: -1.612 ms

# Below is generated by plot.py at 2018-01-02 18:35:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 364.74 Mbit/s  
95th percentile per-packet one-way delay: 19.081 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 191.47 Mbit/s  
95th percentile per-packet one-way delay: 18.917 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 183.16 Mbit/s  
95th percentile per-packet one-way delay: 19.080 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 161.79 Mbit/s  
95th percentile per-packet one-way delay: 19.435 ms  
Loss rate: 0.02%

Run 1: Report of Indigo — Data Link

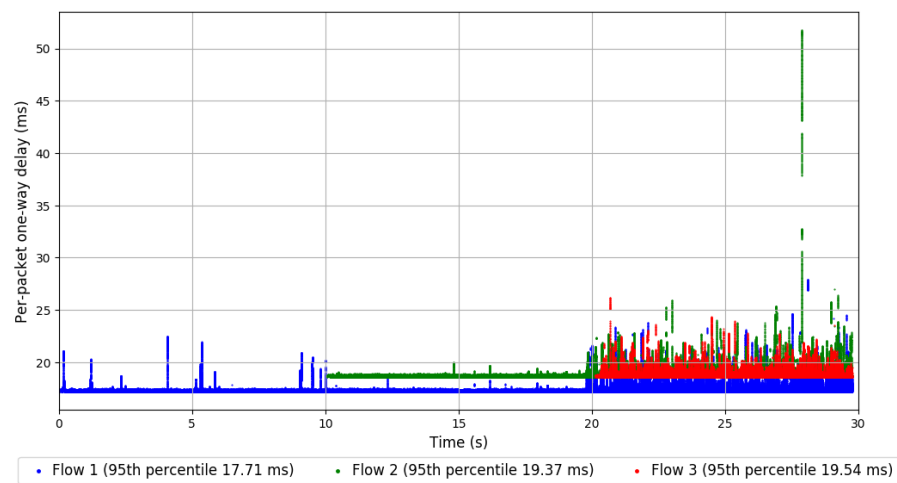
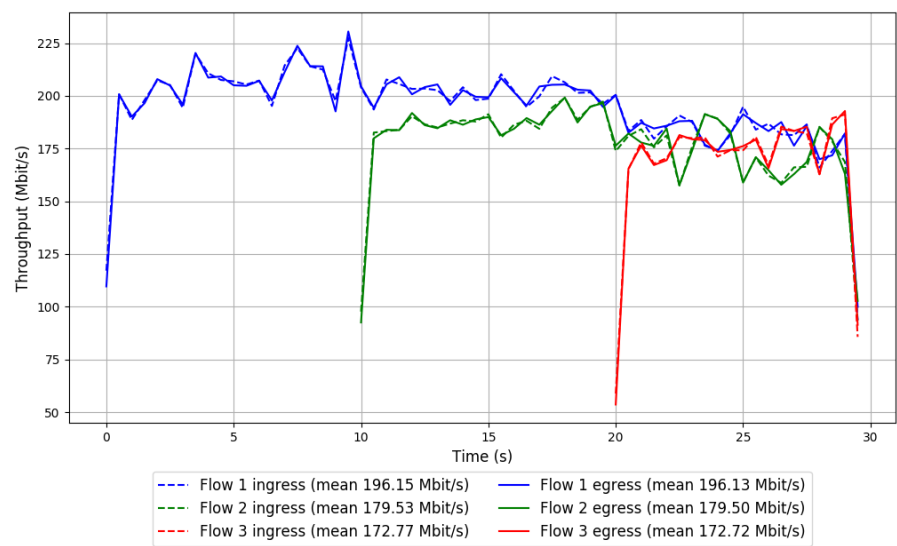


Run 2: Statistics of Indigo

Start at: 2018-01-02 11:39:51  
End at: 2018-01-02 11:40:21  
Local clock offset: 1.499 ms  
Remote clock offset: -1.443 ms

# Below is generated by plot.py at 2018-01-02 18:35:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 370.91 Mbit/s  
95th percentile per-packet one-way delay: 19.065 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 196.13 Mbit/s  
95th percentile per-packet one-way delay: 17.710 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 179.50 Mbit/s  
95th percentile per-packet one-way delay: 19.370 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 172.72 Mbit/s  
95th percentile per-packet one-way delay: 19.543 ms  
Loss rate: 0.02%

Run 2: Report of Indigo — Data Link



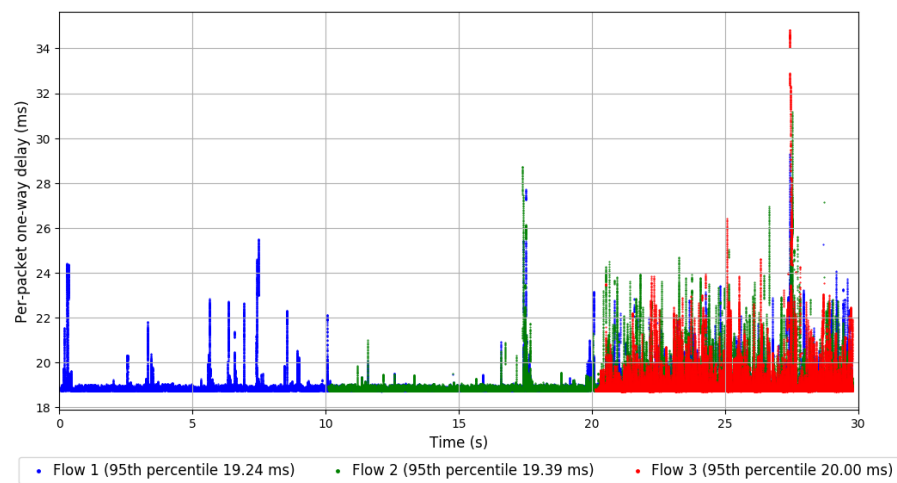
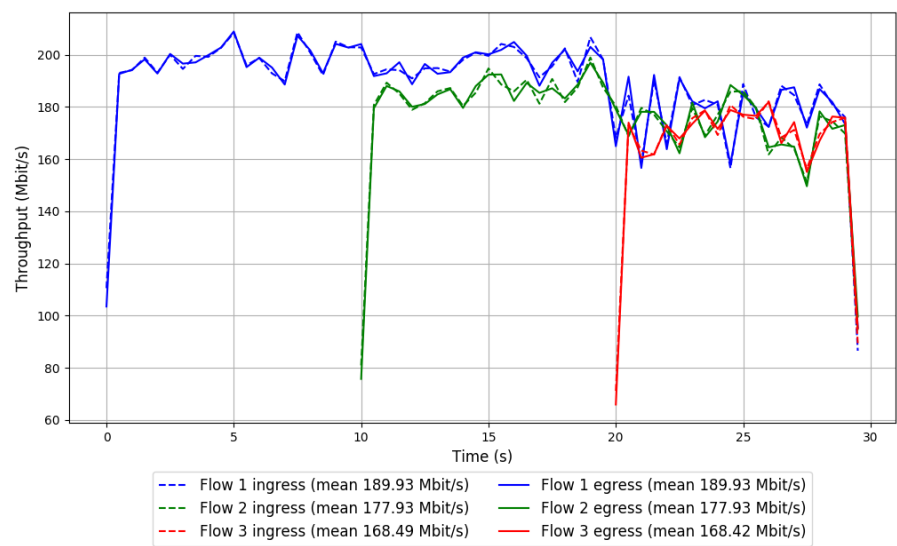
Run 3: Statistics of Indigo

Start at: 2018-01-02 12:01:57  
End at: 2018-01-02 12:02:27  
Local clock offset: 1.445 ms  
Remote clock offset: -1.472 ms

# Below is generated by plot.py at 2018-01-02 18:35:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 362.17 Mbit/s  
95th percentile per-packet one-way delay: 19.433 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 189.93 Mbit/s  
95th percentile per-packet one-way delay: 19.244 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 177.93 Mbit/s  
95th percentile per-packet one-way delay: 19.391 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 168.42 Mbit/s  
95th percentile per-packet one-way delay: 20.001 ms  
Loss rate: 0.02%



Run 3: Report of Indigo — Data Link

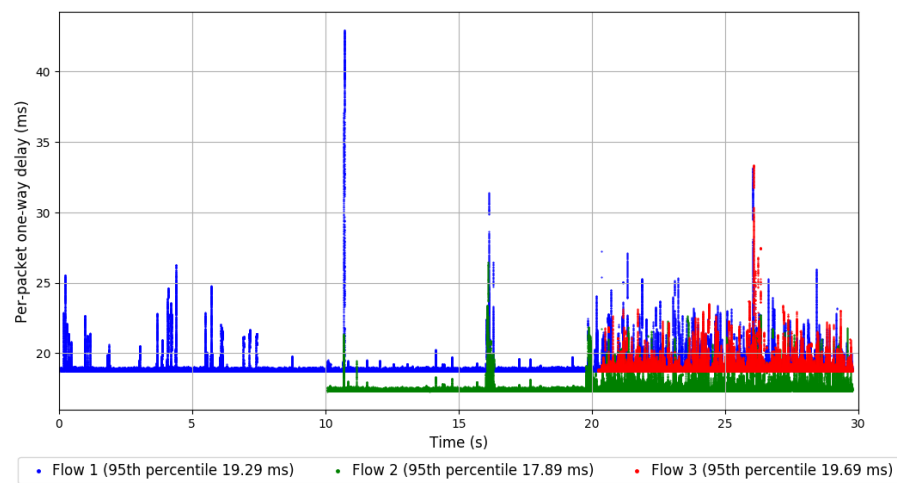
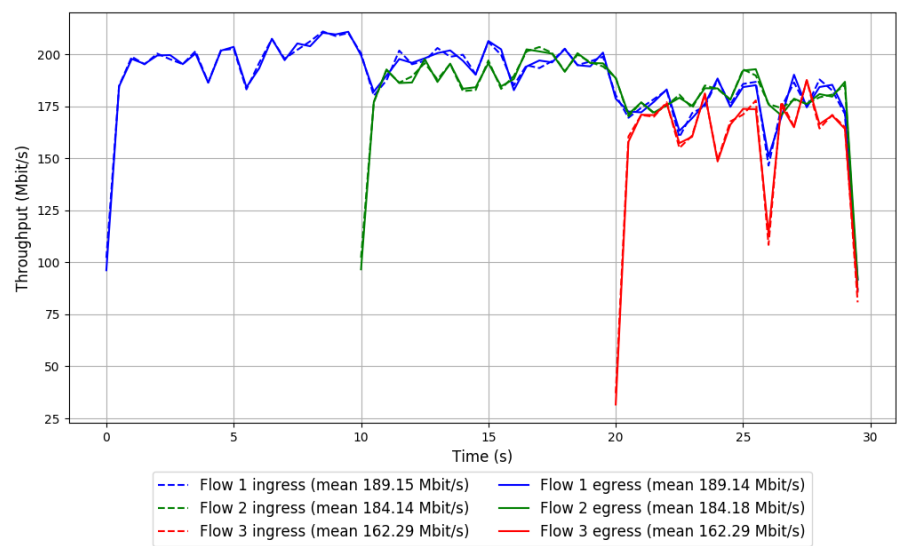


Run 4: Statistics of Indigo

Start at: 2018-01-02 12:24:09  
End at: 2018-01-02 12:24:39  
Local clock offset: 1.521 ms  
Remote clock offset: -1.429 ms

# Below is generated by plot.py at 2018-01-02 18:35:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 363.13 Mbit/s  
95th percentile per-packet one-way delay: 19.166 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 189.14 Mbit/s  
95th percentile per-packet one-way delay: 19.290 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 184.18 Mbit/s  
95th percentile per-packet one-way delay: 17.895 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 162.29 Mbit/s  
95th percentile per-packet one-way delay: 19.694 ms  
Loss rate: 0.00%

Run 4: Report of Indigo — Data Link

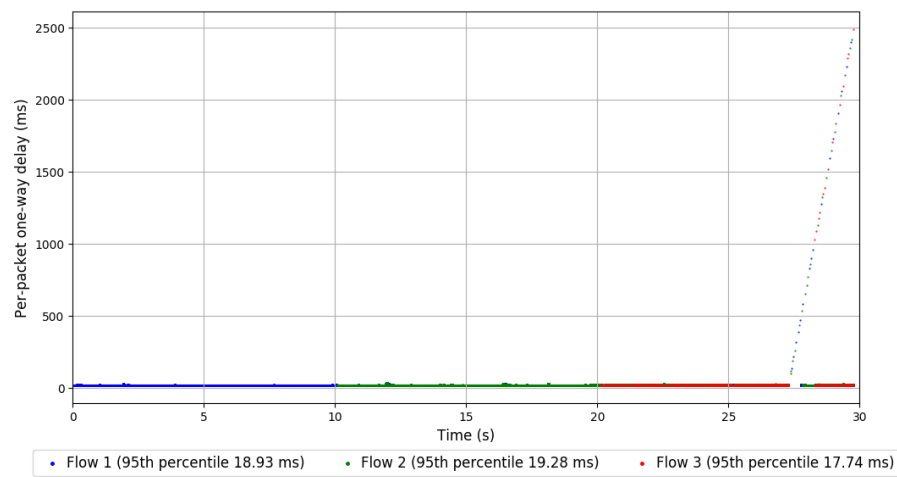
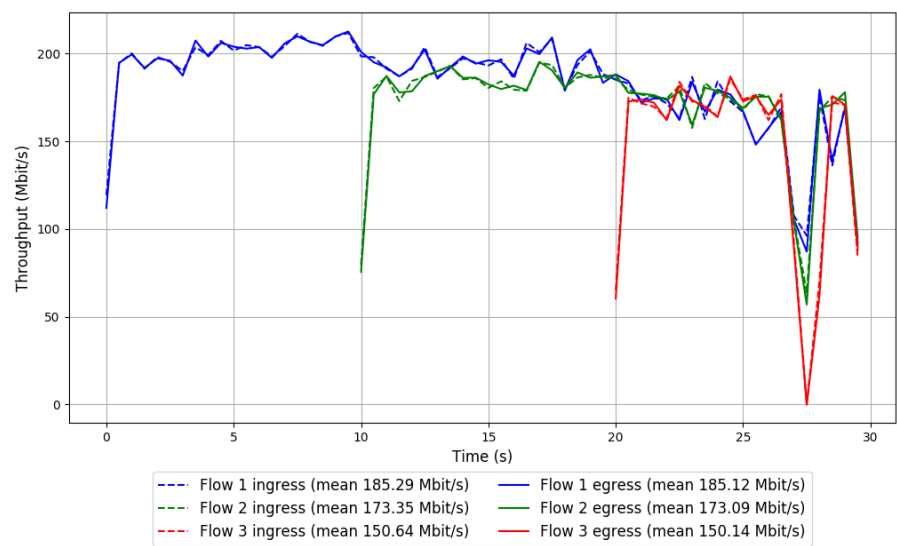


Run 5: Statistics of Indigo

Start at: 2018-01-02 12:46:33  
End at: 2018-01-02 12:47:03  
Local clock offset: 1.547 ms  
Remote clock offset: -1.361 ms

# Below is generated by plot.py at 2018-01-02 18:35:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 348.16 Mbit/s  
95th percentile per-packet one-way delay: 18.977 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 185.12 Mbit/s  
95th percentile per-packet one-way delay: 18.925 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 173.09 Mbit/s  
95th percentile per-packet one-way delay: 19.278 ms  
Loss rate: 0.15%  
-- Flow 3:  
Average throughput: 150.14 Mbit/s  
95th percentile per-packet one-way delay: 17.742 ms  
Loss rate: 0.33%

Run 5: Report of Indigo — Data Link

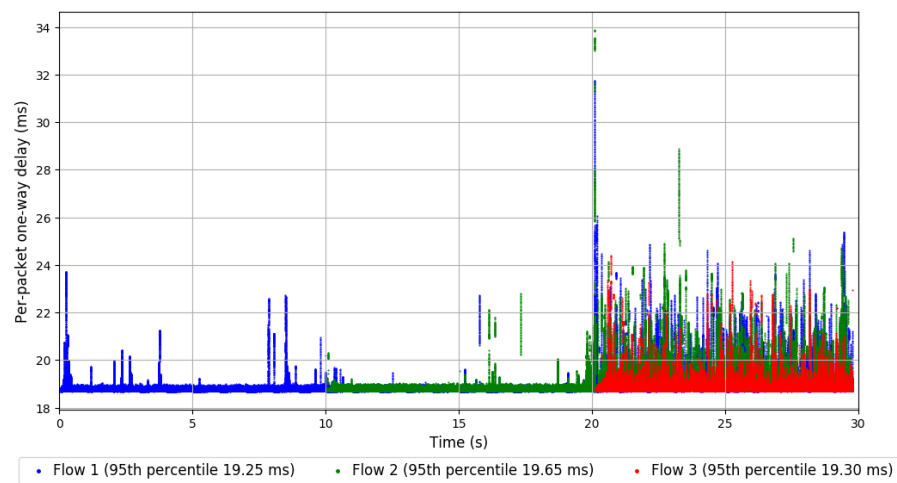
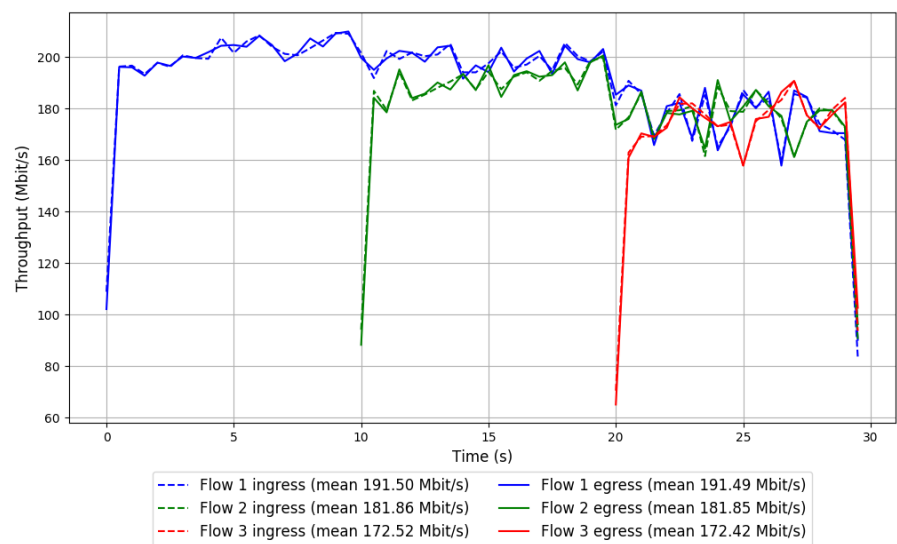


Run 6: Statistics of Indigo

Start at: 2018-01-02 13:08:44  
End at: 2018-01-02 13:09:14  
Local clock offset: 1.505 ms  
Remote clock offset: -1.388 ms

# Below is generated by plot.py at 2018-01-02 18:35:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 367.86 Mbit/s  
95th percentile per-packet one-way delay: 19.389 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 191.49 Mbit/s  
95th percentile per-packet one-way delay: 19.245 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 181.85 Mbit/s  
95th percentile per-packet one-way delay: 19.651 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 172.42 Mbit/s  
95th percentile per-packet one-way delay: 19.297 ms  
Loss rate: 0.01%

Run 6: Report of Indigo — Data Link



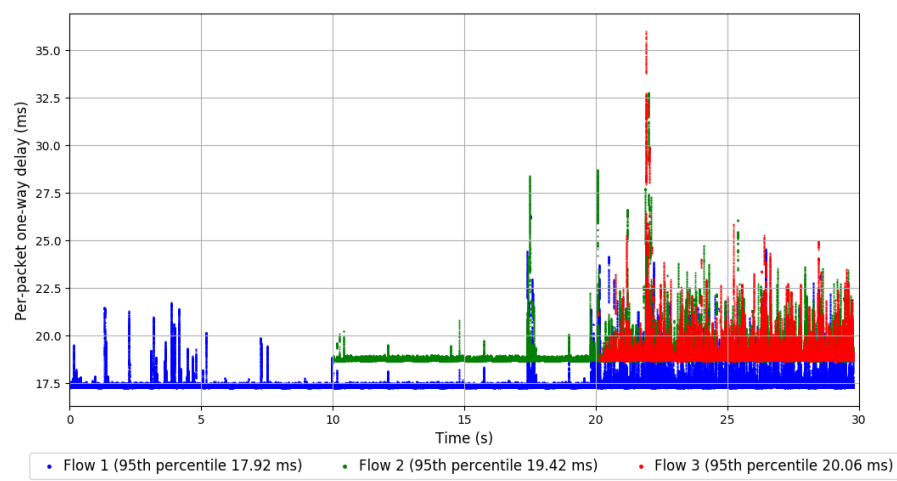
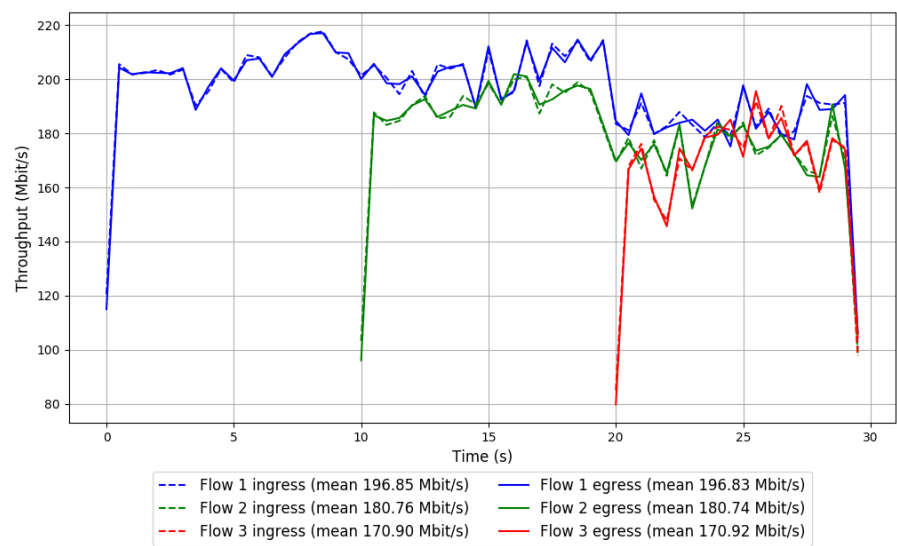
Run 7: Statistics of Indigo

Start at: 2018-01-02 13:30:38  
End at: 2018-01-02 13:31:08  
Local clock offset: 1.566 ms  
Remote clock offset: -1.434 ms

```
# Below is generated by plot.py at 2018-01-02 18:35:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 372.25 Mbit/s
95th percentile per-packet one-way delay: 19.206 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 196.83 Mbit/s
95th percentile per-packet one-way delay: 17.923 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 180.74 Mbit/s
95th percentile per-packet one-way delay: 19.417 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 170.92 Mbit/s
95th percentile per-packet one-way delay: 20.061 ms
Loss rate: 0.00%
```



Run 7: Report of Indigo — Data Link

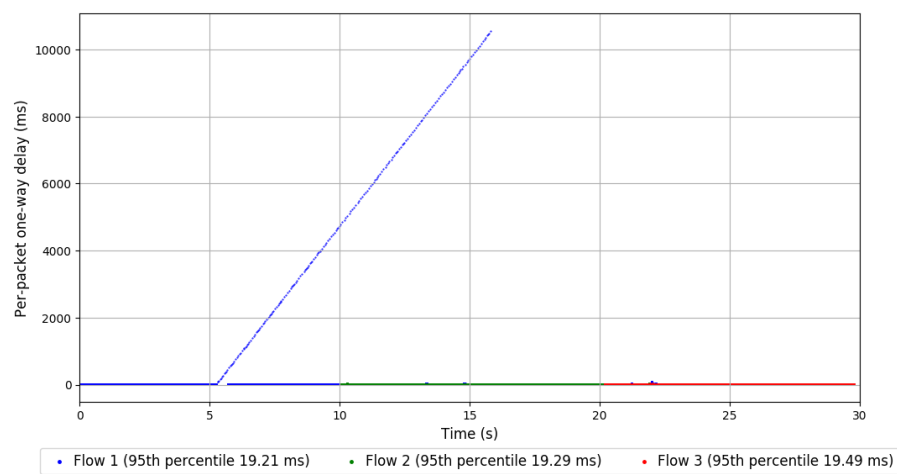
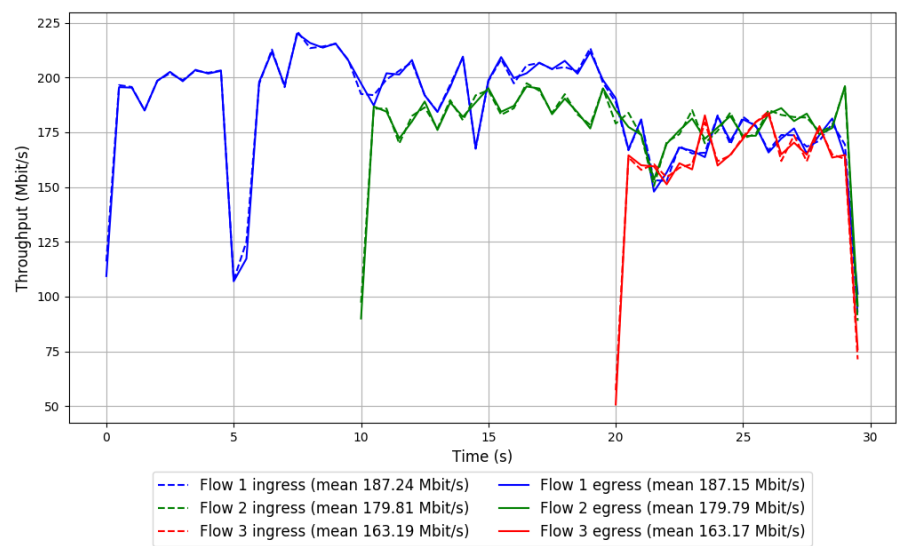


Run 8: Statistics of Indigo

Start at: 2018-01-02 13:52:48  
End at: 2018-01-02 13:53:18  
Local clock offset: 1.451 ms  
Remote clock offset: -1.631 ms

```
# Below is generated by plot.py at 2018-01-02 18:35:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 358.98 Mbit/s
95th percentile per-packet one-way delay: 19.288 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 187.15 Mbit/s
95th percentile per-packet one-way delay: 19.212 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 179.79 Mbit/s
95th percentile per-packet one-way delay: 19.290 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 163.17 Mbit/s
95th percentile per-packet one-way delay: 19.490 ms
Loss rate: 0.00%
```

Run 8: Report of Indigo — Data Link

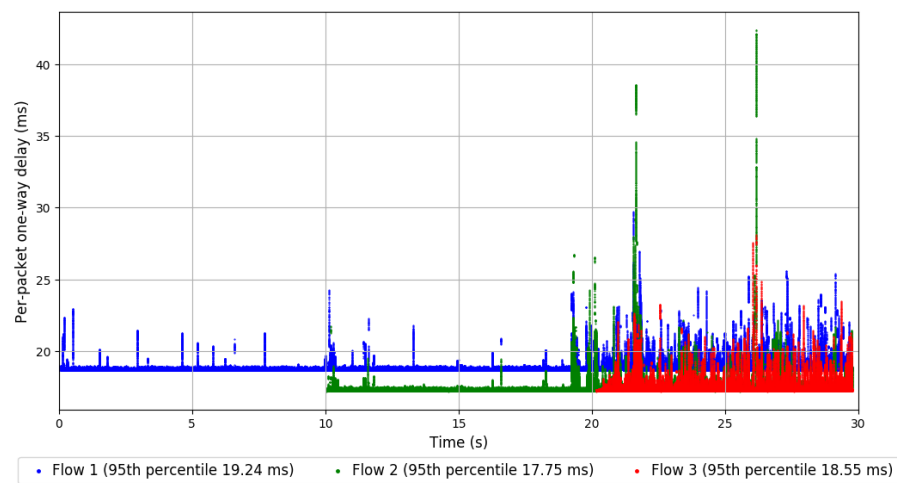
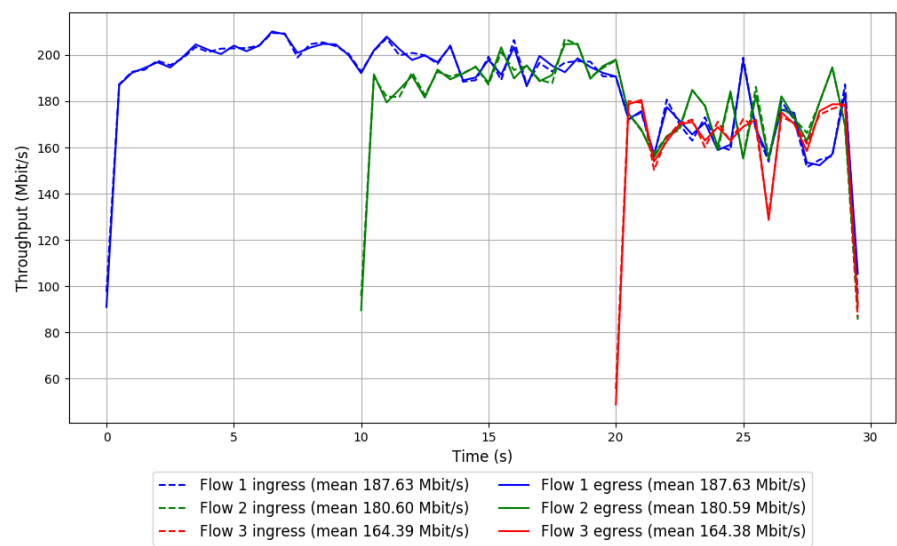


Run 9: Statistics of Indigo

Start at: 2018-01-02 14:14:39  
End at: 2018-01-02 14:15:09  
Local clock offset: 1.507 ms  
Remote clock offset: -1.461 ms

# Below is generated by plot.py at 2018-01-02 18:35:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 360.42 Mbit/s  
95th percentile per-packet one-way delay: 18.989 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 187.63 Mbit/s  
95th percentile per-packet one-way delay: 19.236 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 180.59 Mbit/s  
95th percentile per-packet one-way delay: 17.747 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 164.38 Mbit/s  
95th percentile per-packet one-way delay: 18.552 ms  
Loss rate: 0.01%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-02 14:37:02

End at: 2018-01-02 14:37:32

Local clock offset: 1.442 ms

Remote clock offset: -1.53 ms

# Below is generated by plot.py at 2018-01-02 18:35:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 366.54 Mbit/s

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

Loss rate: 0.02%

-- Flow 1:

Average throughput: 190.86 Mbit/s

95th percentile per-packet one-way delay: 18.973 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 182.70 Mbit/s

95th percentile per-packet one-way delay: 19.193 ms

Loss rate: 0.01%

-- Flow 3:

Average throughput: 168.28 Mbit/s

95th percentile per-packet one-way delay: 19.605 ms

Loss rate: 0.05%

Run 10: Report of Indigo — Data Link

