

## Pantheon Report

Generated at 2018-01-10 12:51:01 (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).

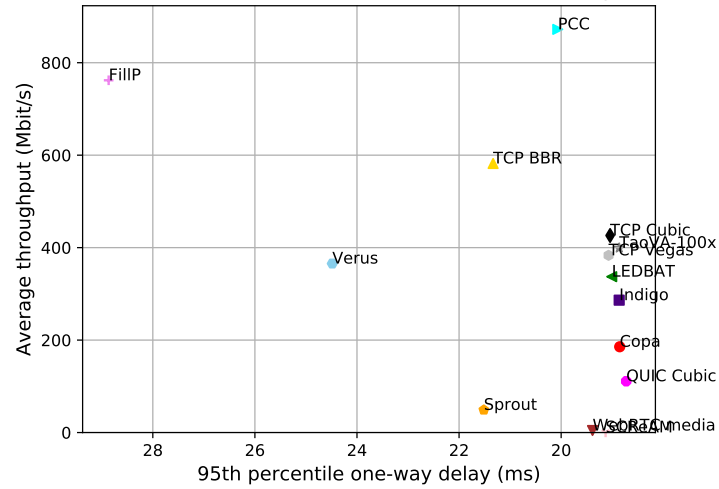
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo\_fast**).

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

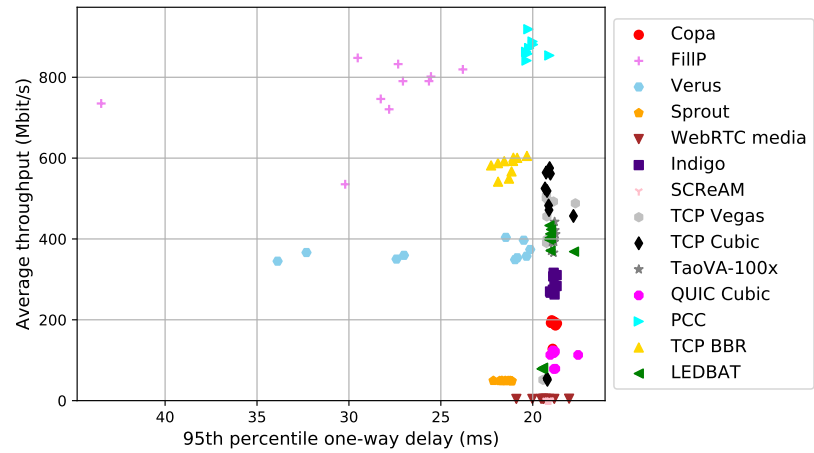
Git summary:

```
branch: master @ 56d1792c316a5efca3f2d21342905405fedffb48
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
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 @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	313.75	287.03	250.39	21.75	20.75	20.23	9.29	13.28	17.90
TCP Cubic	10	244.36	185.18	176.62	19.06	18.61	18.68	0.06	0.10	0.09
LEDBAT	10	192.58	159.18	117.87	19.01	18.61	19.13	0.05	0.06	0.07
PCC	8	645.53	272.03	105.60	19.89	19.64	19.17	1.68	1.33	0.82
QUIC Cubic	10	58.64	55.18	48.04	18.17	18.19	18.81	0.03	0.03	0.03
SCReAM	7	41.10	0.22	0.22	708.18	18.53	18.51	0.00	0.00	0.00
WebRTC media	10	2.34	1.50	0.58	19.01	19.16	20.52	0.01	0.02	0.04
Sprout	10	24.66	24.52	24.39	21.67	20.72	20.97	0.12	0.13	0.12
TaoVA-100x	8	205.99	200.98	186.43	18.52	18.36	18.19	0.02	0.02	0.02
TCP Vegas	10	211.23	182.60	152.17	18.67	18.72	19.35	0.06	0.08	0.06
Verus	10	187.68	182.93	165.69	28.19	20.27	20.46	6.25	4.02	4.96
Copa	10	95.15	89.44	117.58	18.45	18.74	17.89	0.02	0.03	0.02
FillP	10	424.44	362.93	289.84	31.71	22.20	22.96	9.00	11.48	12.81
Indigo	9	158.97	139.03	109.29	18.14	18.45	18.65	0.03	0.03	0.03

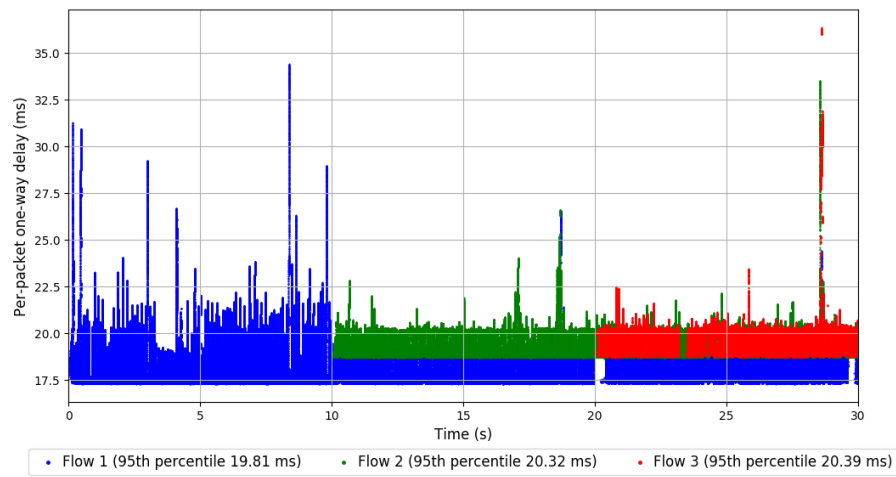
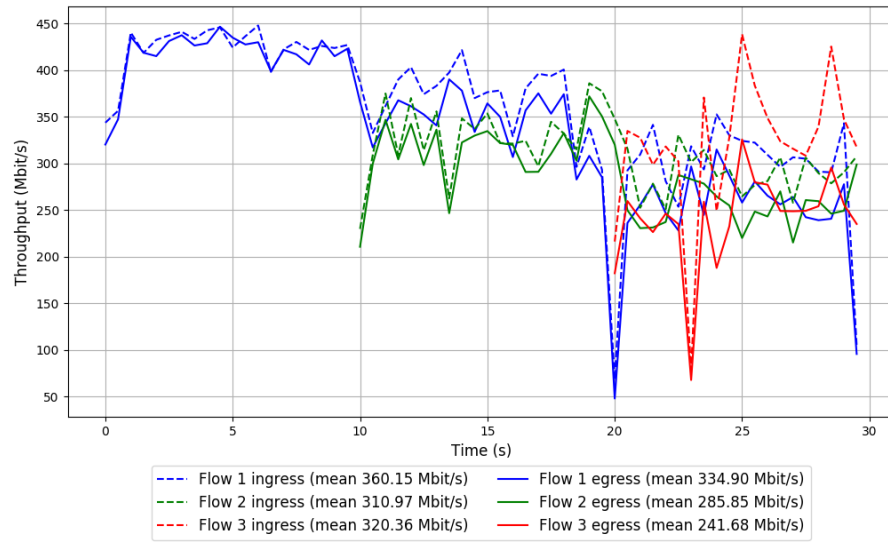
Run 1: Statistics of TCP BBR

Start at: 2018-01-10 03:15:15  
End at: 2018-01-10 03:15:45  
Local clock offset: -0.961 ms  
Remote clock offset: -2.725 ms

# Below is generated by plot.py at 2018-01-10 10:11:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 605.47 Mbit/s  
95th percentile per-packet one-way delay: 20.317 ms  
Loss rate: 10.10%  
-- Flow 1:  
Average throughput: 334.90 Mbit/s  
95th percentile per-packet one-way delay: 19.810 ms  
Loss rate: 7.01%  
-- Flow 2:  
Average throughput: 285.85 Mbit/s  
95th percentile per-packet one-way delay: 20.321 ms  
Loss rate: 8.07%  
-- Flow 3:  
Average throughput: 241.68 Mbit/s  
95th percentile per-packet one-way delay: 20.391 ms  
Loss rate: 24.55%



# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-10 03:37:04

End at: 2018-01-10 03:37:34

Local clock offset: -0.506 ms

Remote clock offset: -2.61 ms

# Below is generated by plot.py at 2018-01-10 10:11:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 587.56 Mbit/s

95th percentile per-packet one-way delay: 21.893 ms

Loss rate: 13.49%

-- Flow 1:

Average throughput: 312.57 Mbit/s

95th percentile per-packet one-way delay: 22.357 ms

Loss rate: 7.58%

-- Flow 2:

Average throughput: 290.05 Mbit/s

95th percentile per-packet one-way delay: 21.845 ms

Loss rate: 18.41%

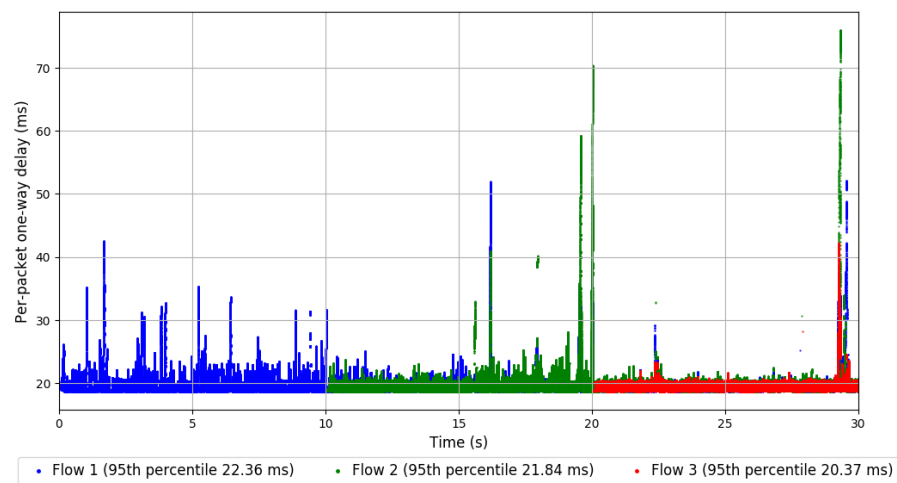
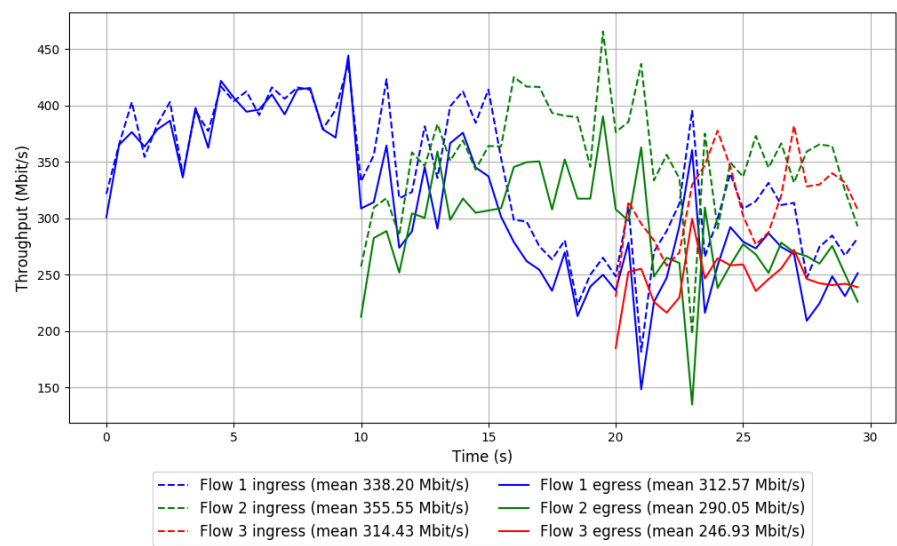
-- Flow 3:

Average throughput: 246.93 Mbit/s

95th percentile per-packet one-way delay: 20.367 ms

Loss rate: 21.45%

Run 2: Report of TCP BBR — Data Link

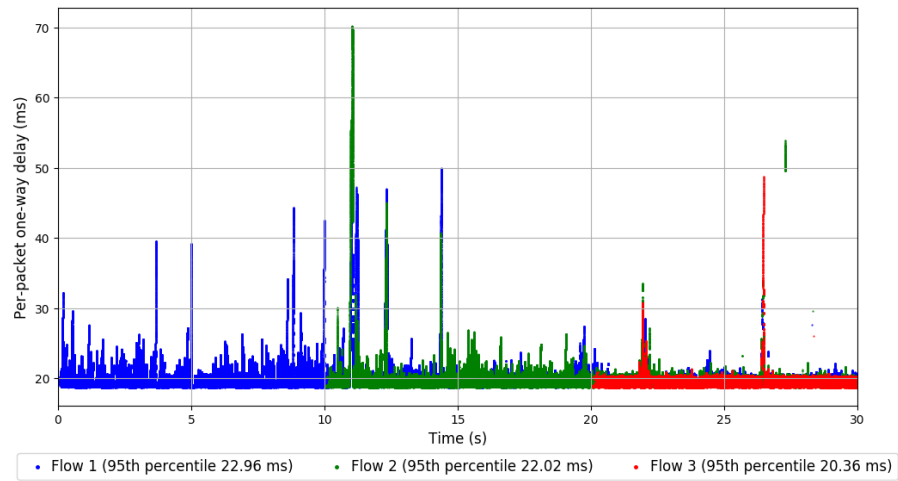
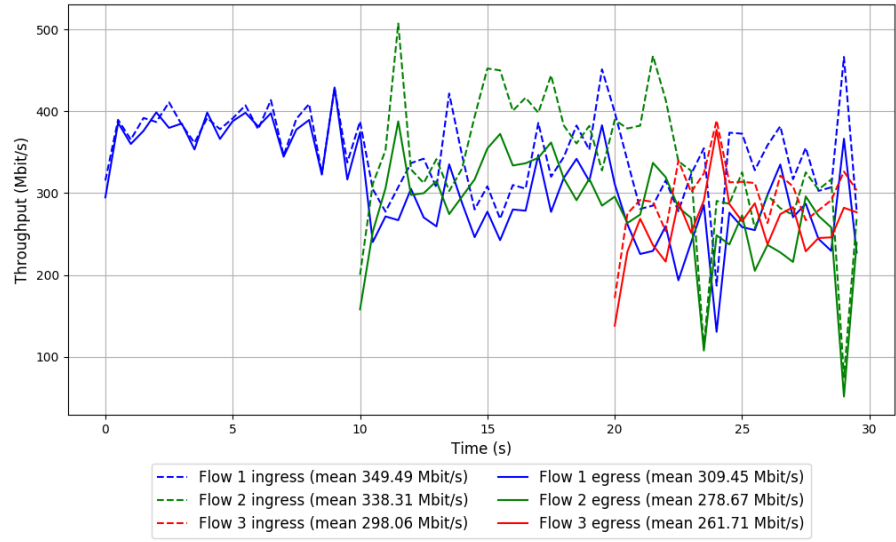


Run 3: Statistics of TCP BBR

Start at: 2018-01-10 03:59:03  
End at: 2018-01-10 03:59:33  
Local clock offset: -0.158 ms  
Remote clock offset: -2.328 ms

# Below is generated by plot.py at 2018-01-10 10:11:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 581.95 Mbit/s  
95th percentile per-packet one-way delay: 22.265 ms  
Loss rate: 13.63%  
-- Flow 1:  
Average throughput: 309.45 Mbit/s  
95th percentile per-packet one-way delay: 22.961 ms  
Loss rate: 11.46%  
-- Flow 2:  
Average throughput: 278.67 Mbit/s  
95th percentile per-packet one-way delay: 22.019 ms  
Loss rate: 17.63%  
-- Flow 3:  
Average throughput: 261.71 Mbit/s  
95th percentile per-packet one-way delay: 20.355 ms  
Loss rate: 12.19%

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

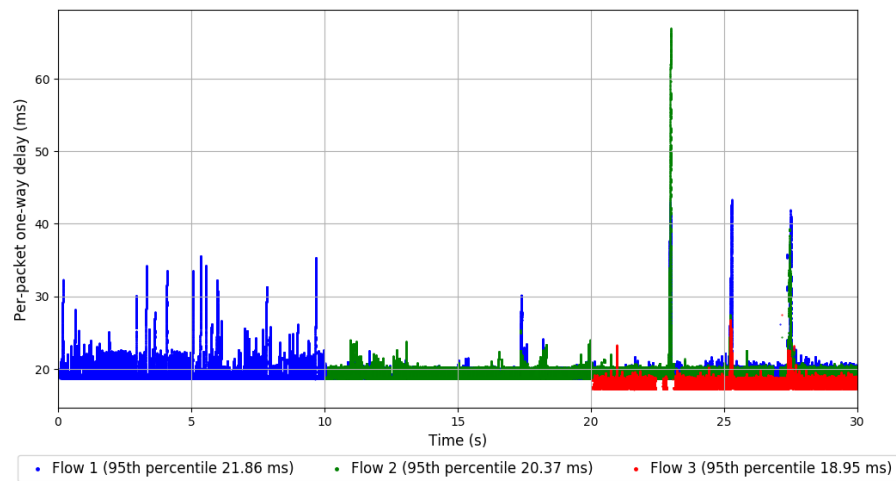
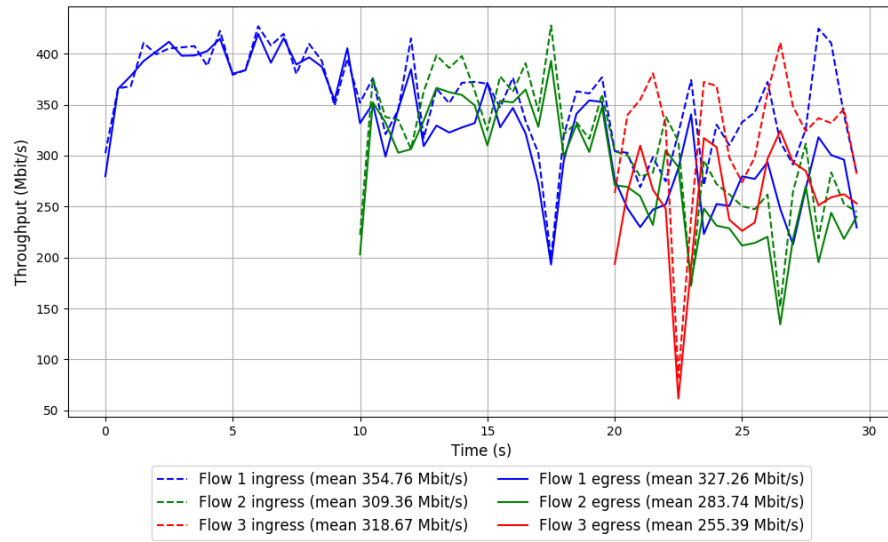


Run 4: Statistics of TCP BBR

Start at: 2018-01-10 04:20:56  
End at: 2018-01-10 04:21:27  
Local clock offset: 0.613 ms  
Remote clock offset: -2.363 ms

# Below is generated by plot.py at 2018-01-10 10:11:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 601.06 Mbit/s  
95th percentile per-packet one-way delay: 21.054 ms  
Loss rate: 9.84%  
-- Flow 1:  
Average throughput: 327.26 Mbit/s  
95th percentile per-packet one-way delay: 21.864 ms  
Loss rate: 7.75%  
-- Flow 2:  
Average throughput: 283.74 Mbit/s  
95th percentile per-packet one-way delay: 20.374 ms  
Loss rate: 8.28%  
-- Flow 3:  
Average throughput: 255.39 Mbit/s  
95th percentile per-packet one-way delay: 18.951 ms  
Loss rate: 19.86%

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



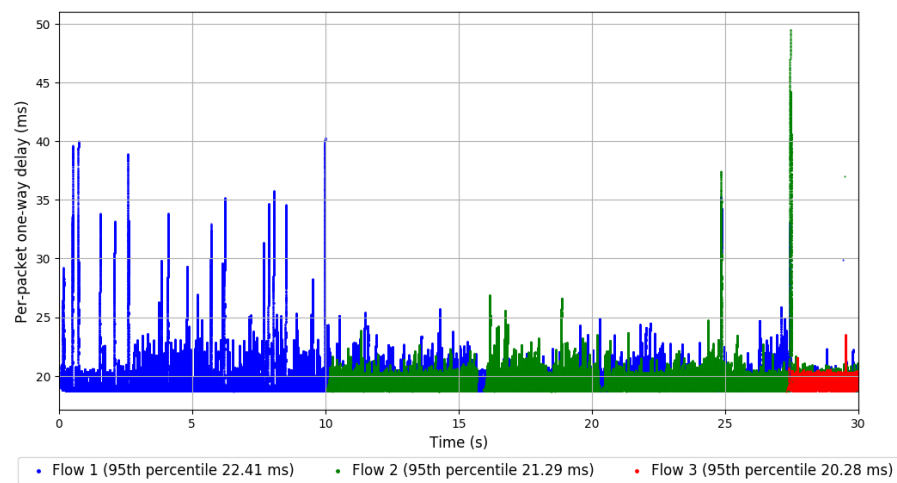
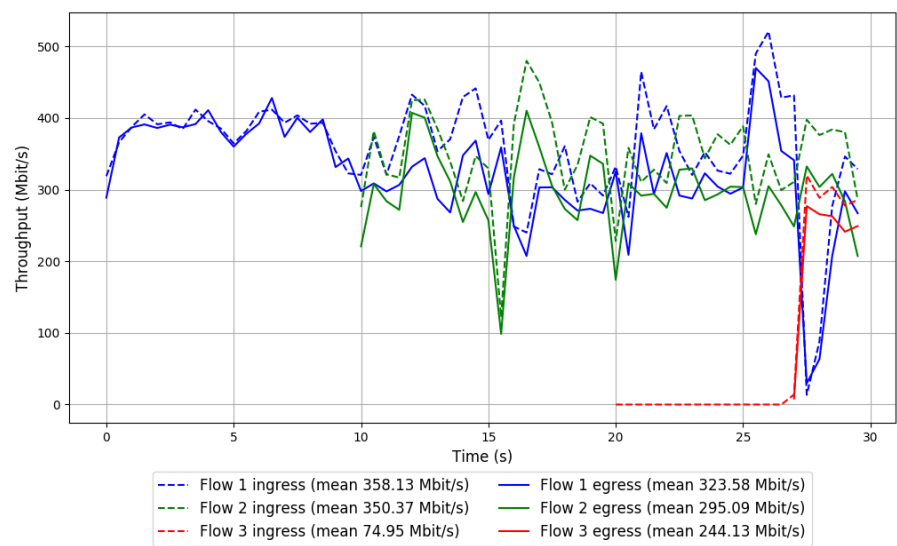
Run 5: Statistics of TCP BBR

Start at: 2018-01-10 04:42:45  
End at: 2018-01-10 04:43:15  
Local clock offset: 1.014 ms  
Remote clock offset: -2.292 ms

# Below is generated by plot.py at 2018-01-10 10:11:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 541.78 Mbit/s  
95th percentile per-packet one-way delay: 21.885 ms  
Loss rate: 12.07%  
-- Flow 1:  
Average throughput: 323.58 Mbit/s  
95th percentile per-packet one-way delay: 22.409 ms  
Loss rate: 9.64%  
-- Flow 2:  
Average throughput: 295.09 Mbit/s  
95th percentile per-packet one-way delay: 21.294 ms  
Loss rate: 15.77%  
-- Flow 3:  
Average throughput: 244.13 Mbit/s  
95th percentile per-packet one-way delay: 20.282 ms  
Loss rate: 12.42%



Run 5: Report of TCP BBR — Data Link

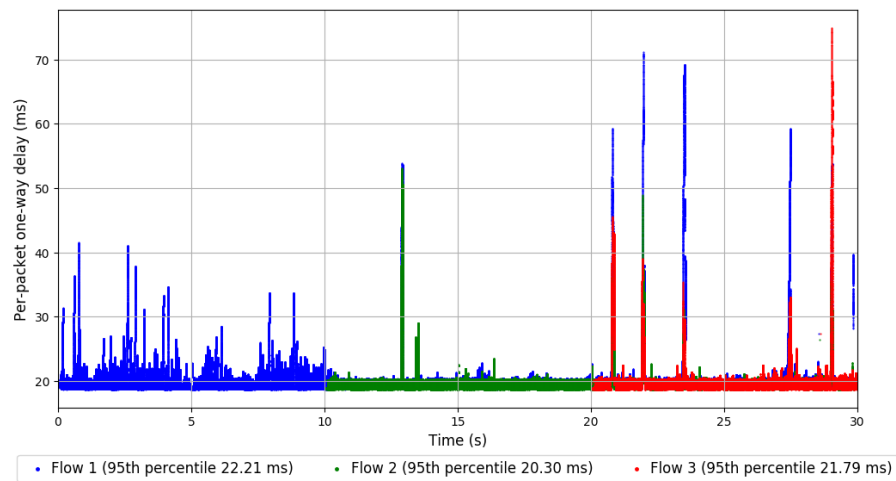
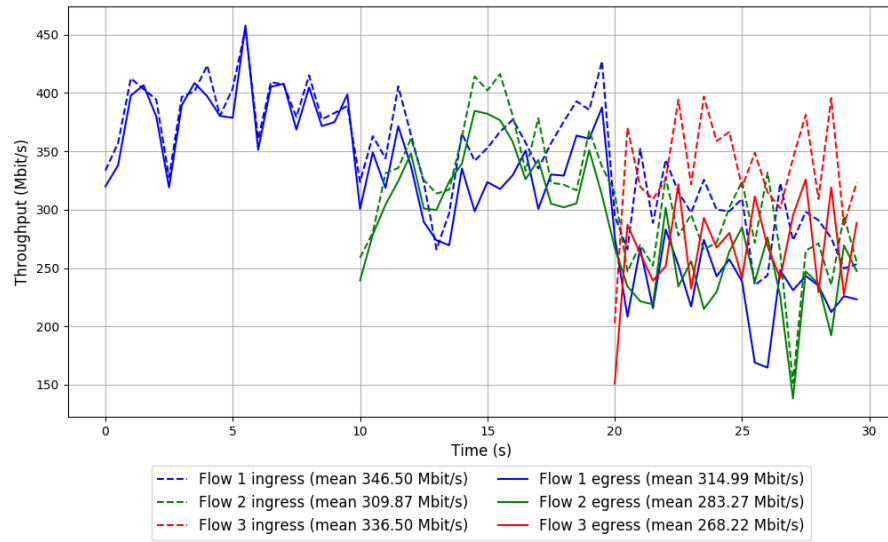


Run 6: Statistics of TCP BBR

Start at: 2018-01-10 05:04:25  
End at: 2018-01-10 05:04:55  
Local clock offset: 1.174 ms  
Remote clock offset: -2.569 ms

# Below is generated by plot.py at 2018-01-10 10:11:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 592.49 Mbit/s  
95th percentile per-packet one-way delay: 21.552 ms  
Loss rate: 10.82%  
-- Flow 1:  
Average throughput: 314.99 Mbit/s  
95th percentile per-packet one-way delay: 22.209 ms  
Loss rate: 9.09%  
-- Flow 2:  
Average throughput: 283.27 Mbit/s  
95th percentile per-packet one-way delay: 20.299 ms  
Loss rate: 8.58%  
-- Flow 3:  
Average throughput: 268.22 Mbit/s  
95th percentile per-packet one-way delay: 21.787 ms  
Loss rate: 20.30%

# Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-10 05:26:14

End at: 2018-01-10 05:26:44

Local clock offset: 1.213 ms

Remote clock offset: -2.23 ms

# Below is generated by plot.py at 2018-01-10 10:11:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 593.09 Mbit/s

95th percentile per-packet one-way delay: 21.072 ms

Loss rate: 14.87%

-- Flow 1:

Average throughput: 322.69 Mbit/s

95th percentile per-packet one-way delay: 20.632 ms

Loss rate: 11.30%

-- Flow 2:

Average throughput: 283.44 Mbit/s

95th percentile per-packet one-way delay: 21.720 ms

Loss rate: 20.64%

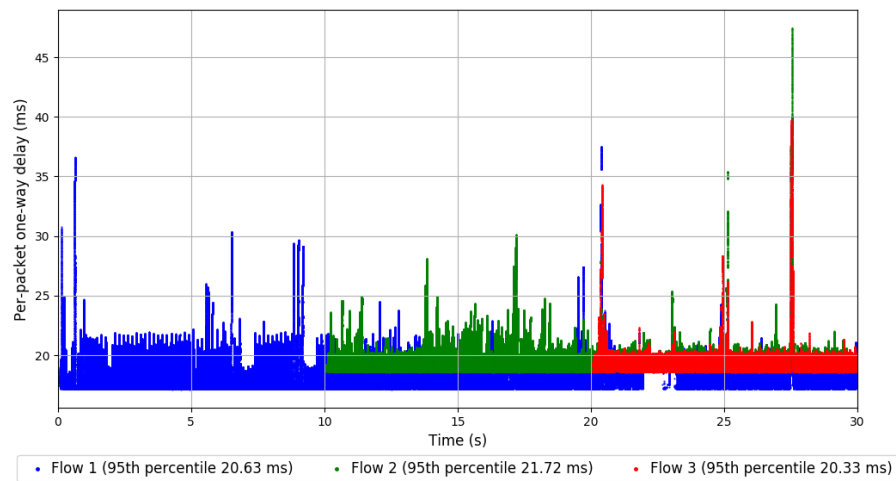
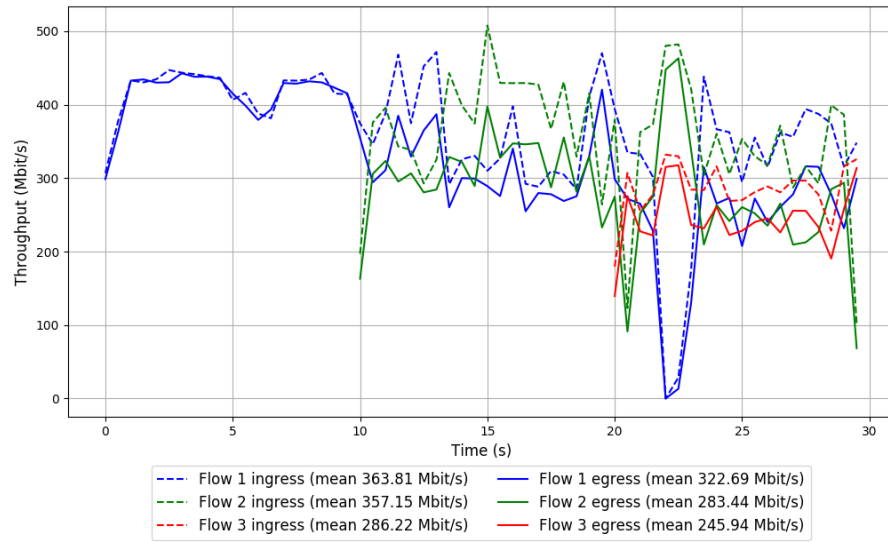
-- Flow 3:

Average throughput: 245.94 Mbit/s

95th percentile per-packet one-way delay: 20.327 ms

Loss rate: 14.07%

# Run 7: Report of TCP BBR — Data Link

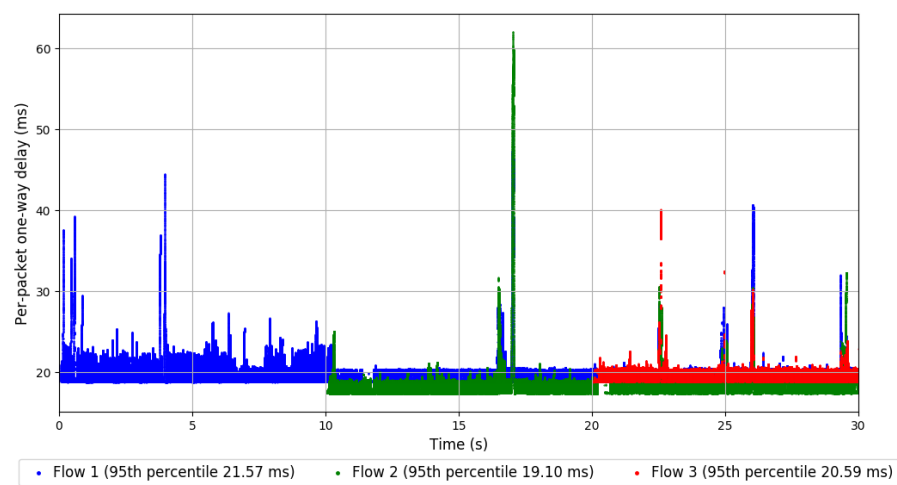
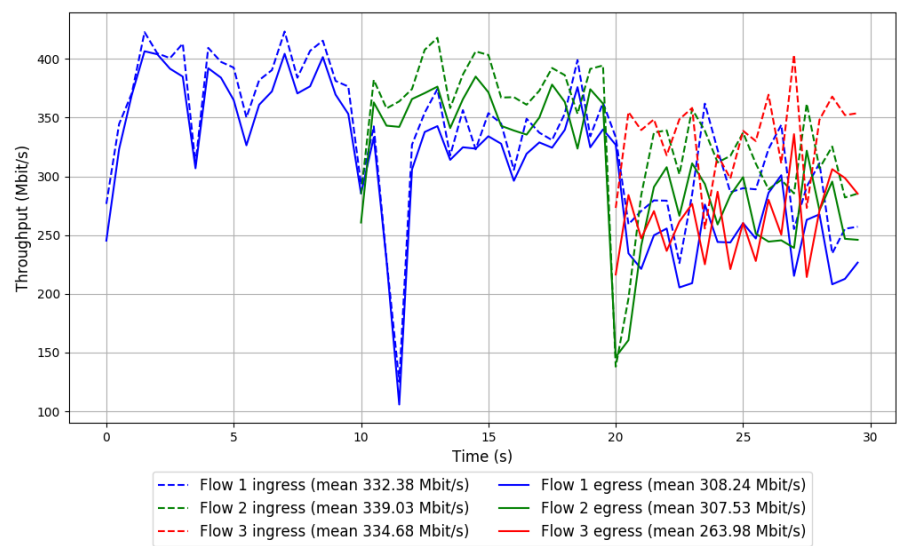


Run 8: Statistics of TCP BBR

Start at: 2018-01-10 05:48:12  
End at: 2018-01-10 05:48:42  
Local clock offset: 0.829 ms  
Remote clock offset: -1.885 ms

# Below is generated by plot.py at 2018-01-10 10:11:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 600.66 Mbit/s  
95th percentile per-packet one-way delay: 20.846 ms  
Loss rate: 10.24%  
-- Flow 1:  
Average throughput: 308.24 Mbit/s  
95th percentile per-packet one-way delay: 21.574 ms  
Loss rate: 7.26%  
-- Flow 2:  
Average throughput: 307.53 Mbit/s  
95th percentile per-packet one-way delay: 19.103 ms  
Loss rate: 9.29%  
-- Flow 3:  
Average throughput: 263.98 Mbit/s  
95th percentile per-packet one-way delay: 20.591 ms  
Loss rate: 21.09%

Run 8: Report of TCP BBR — Data Link



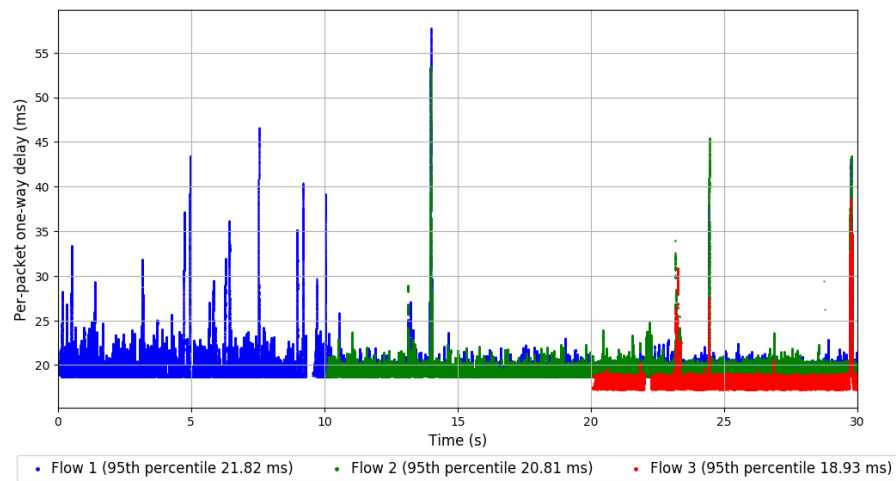
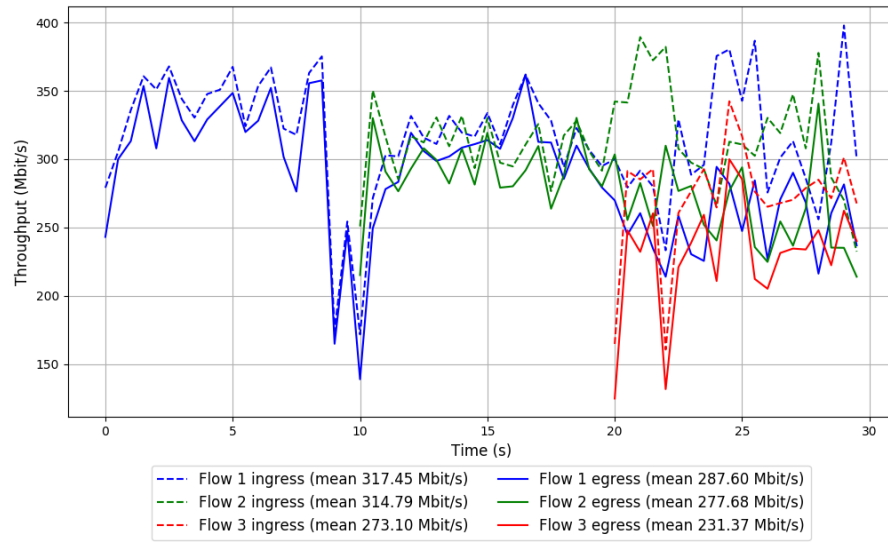
Run 9: Statistics of TCP BBR

Start at: 2018-01-10 06:10:06  
End at: 2018-01-10 06:10:36  
Local clock offset: 0.277 ms  
Remote clock offset: -2.423 ms

# Below is generated by plot.py at 2018-01-10 10:25:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 549.29 Mbit/s  
95th percentile per-packet one-way delay: 21.292 ms  
Loss rate: 11.07%  
-- Flow 1:  
Average throughput: 287.60 Mbit/s  
95th percentile per-packet one-way delay: 21.823 ms  
Loss rate: 9.40%  
-- Flow 2:  
Average throughput: 277.68 Mbit/s  
95th percentile per-packet one-way delay: 20.812 ms  
Loss rate: 11.79%  
-- Flow 3:  
Average throughput: 231.37 Mbit/s  
95th percentile per-packet one-way delay: 18.932 ms  
Loss rate: 15.27%



# Run 9: Report of TCP BBR — Data Link

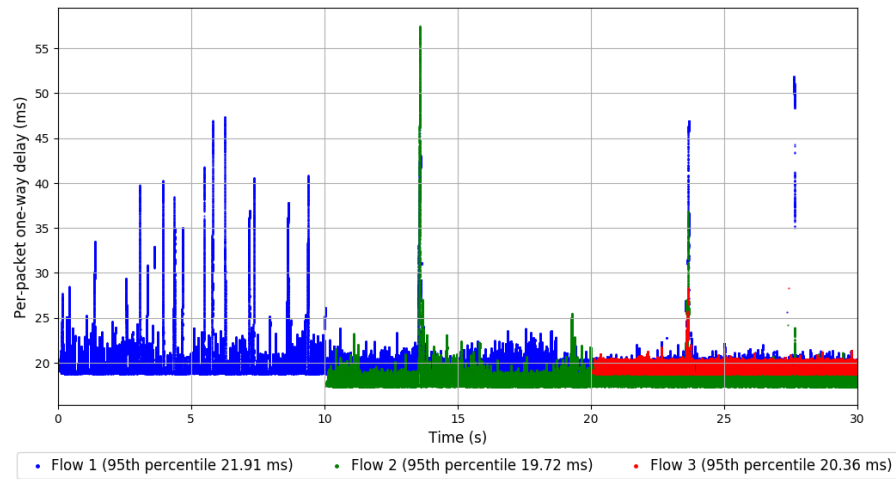
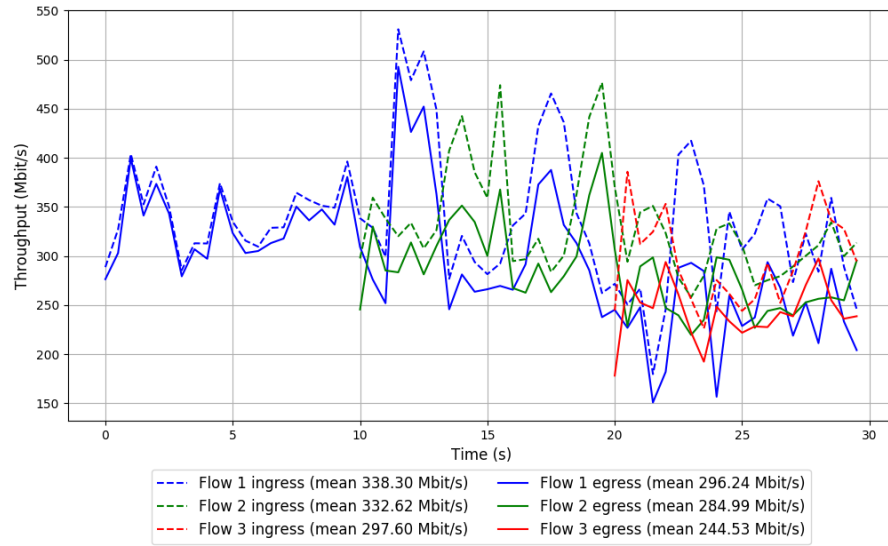


Run 10: Statistics of TCP BBR

Start at: 2018-01-10 06:30:55  
End at: 2018-01-10 06:31:25  
Local clock offset: 0.039 ms  
Remote clock offset: -2.148 ms

# Below is generated by plot.py at 2018-01-10 10:27:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 567.13 Mbit/s  
95th percentile per-packet one-way delay: 21.154 ms  
Loss rate: 13.87%  
-- Flow 1:  
Average throughput: 296.24 Mbit/s  
95th percentile per-packet one-way delay: 21.907 ms  
Loss rate: 12.43%  
-- Flow 2:  
Average throughput: 284.99 Mbit/s  
95th percentile per-packet one-way delay: 19.718 ms  
Loss rate: 14.31%  
-- Flow 3:  
Average throughput: 244.53 Mbit/s  
95th percentile per-packet one-way delay: 20.357 ms  
Loss rate: 17.83%

# Run 10: Report of TCP BBR — Data Link

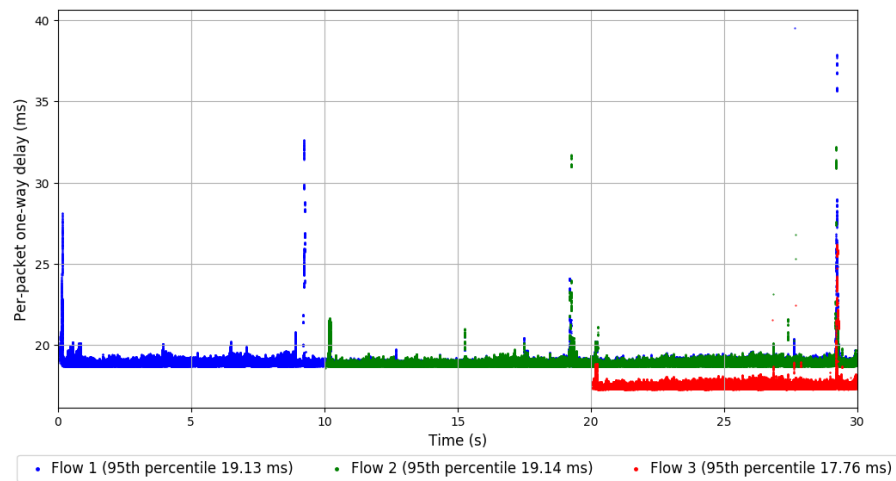
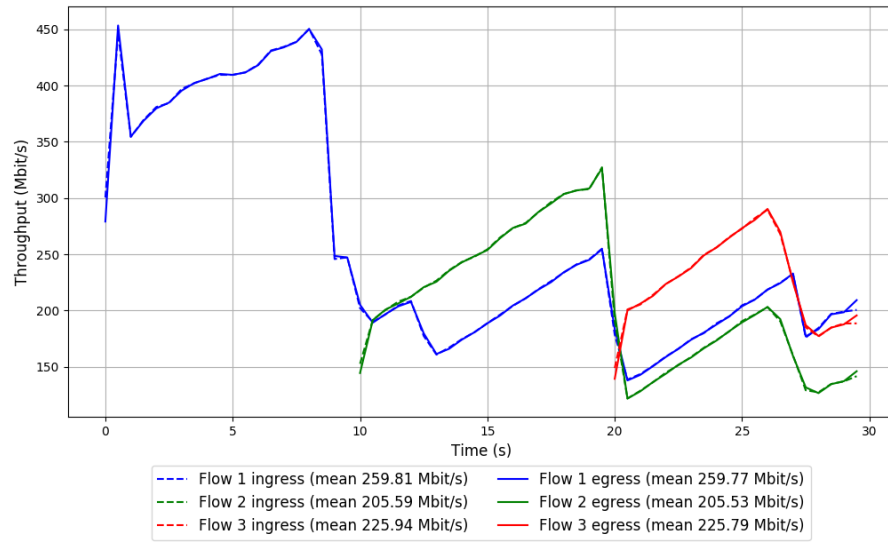


Run 1: Statistics of TCP Cubic

Start at: 2018-01-10 03:28:05  
End at: 2018-01-10 03:28:35  
Local clock offset: -0.636 ms  
Remote clock offset: -2.519 ms

# Below is generated by plot.py at 2018-01-10 10:27:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 471.55 Mbit/s  
95th percentile per-packet one-way delay: 19.116 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 259.77 Mbit/s  
95th percentile per-packet one-way delay: 19.133 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 205.53 Mbit/s  
95th percentile per-packet one-way delay: 19.143 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 225.79 Mbit/s  
95th percentile per-packet one-way delay: 17.758 ms  
Loss rate: 0.07%

# Run 1: Report of TCP Cubic — Data Link

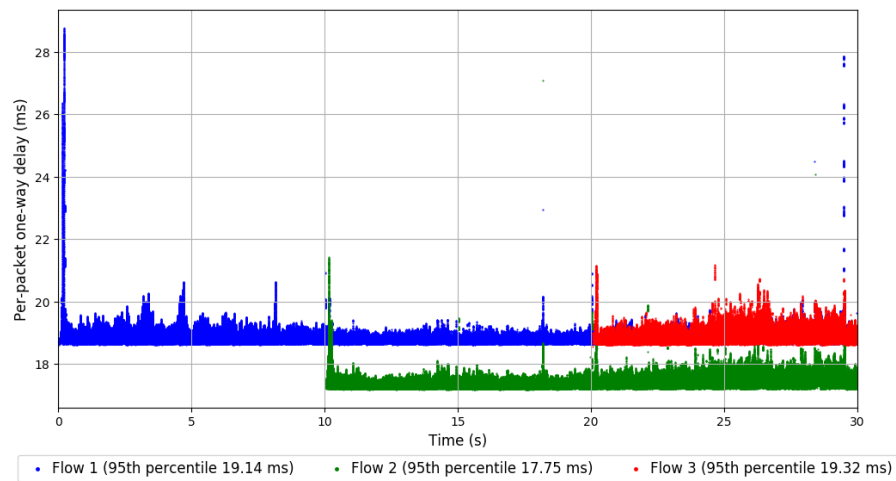
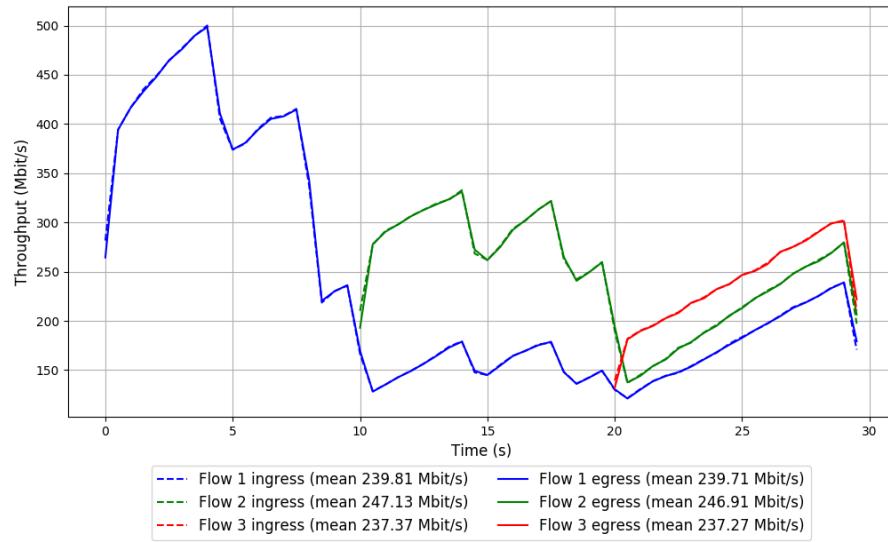


Run 2: Statistics of TCP Cubic

Start at: 2018-01-10 03:49:58  
End at: 2018-01-10 03:50:28  
Local clock offset: -0.35 ms  
Remote clock offset: -2.493 ms

# Below is generated by plot.py at 2018-01-10 10:27:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 482.79 Mbit/s  
95th percentile per-packet one-way delay: 19.138 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 239.71 Mbit/s  
95th percentile per-packet one-way delay: 19.143 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 246.91 Mbit/s  
95th percentile per-packet one-way delay: 17.755 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 237.27 Mbit/s  
95th percentile per-packet one-way delay: 19.325 ms  
Loss rate: 0.04%

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



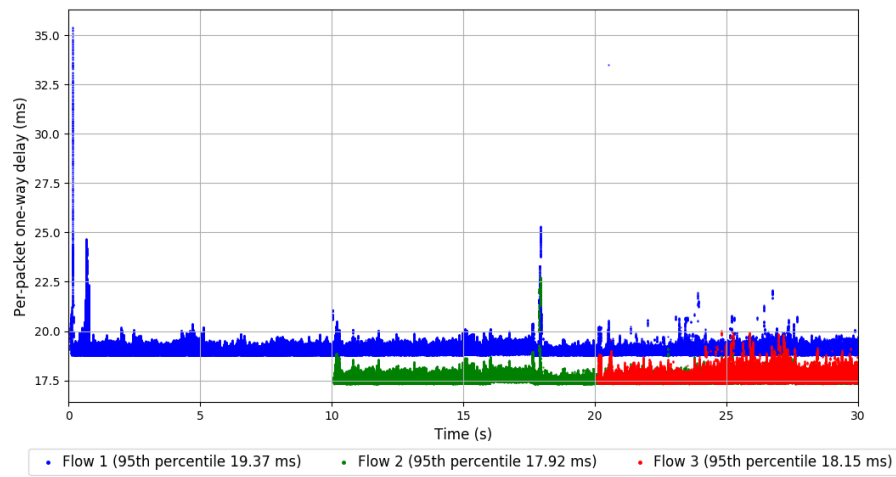
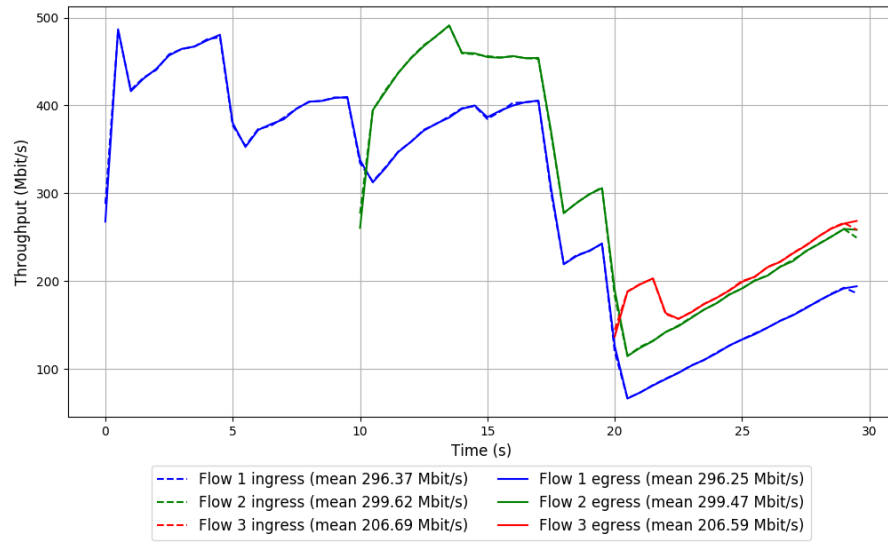
Run 3: Statistics of TCP Cubic

Start at: 2018-01-10 04:11:43  
End at: 2018-01-10 04:12:13  
Local clock offset: 0.244 ms  
Remote clock offset: -2.501 ms

# Below is generated by plot.py at 2018-01-10 10:27:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 564.21 Mbit/s  
95th percentile per-packet one-way delay: 19.273 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 296.25 Mbit/s  
95th percentile per-packet one-way delay: 19.367 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 299.47 Mbit/s  
95th percentile per-packet one-way delay: 17.916 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 206.59 Mbit/s  
95th percentile per-packet one-way delay: 18.150 ms  
Loss rate: 0.04%



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

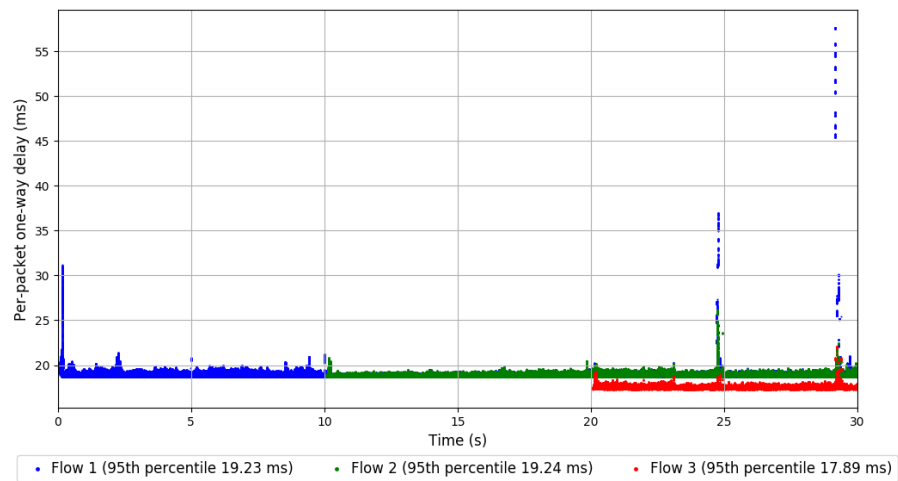
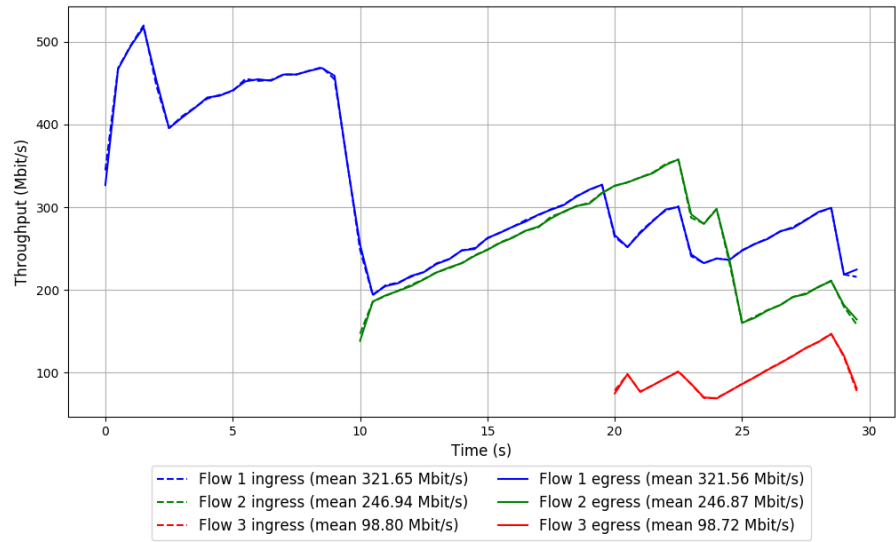


Run 4: Statistics of TCP Cubic

Start at: 2018-01-10 04:33:40  
End at: 2018-01-10 04:34:10  
Local clock offset: 0.823 ms  
Remote clock offset: -2.172 ms

# Below is generated by plot.py at 2018-01-10 10:27:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 518.73 Mbit/s  
95th percentile per-packet one-way delay: 19.222 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 321.56 Mbit/s  
95th percentile per-packet one-way delay: 19.227 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 246.87 Mbit/s  
95th percentile per-packet one-way delay: 19.238 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 98.72 Mbit/s  
95th percentile per-packet one-way delay: 17.894 ms  
Loss rate: 0.07%

# Run 4: Report of TCP Cubic — Data Link

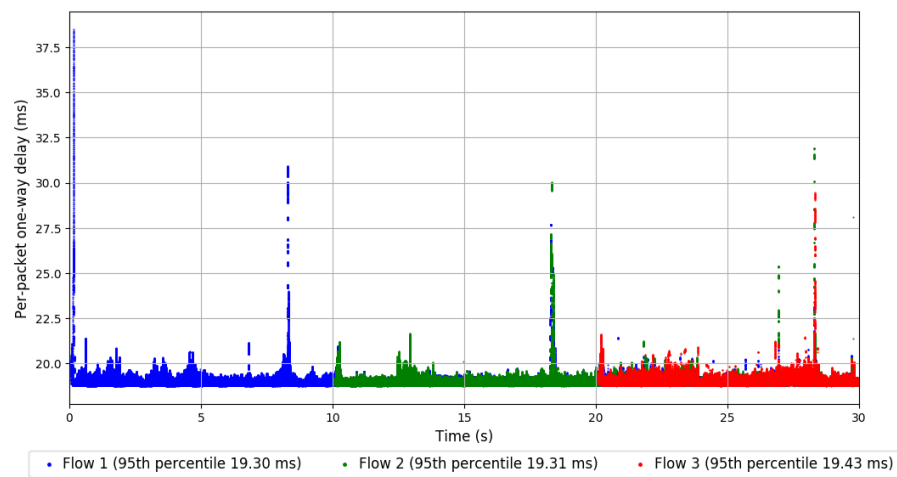
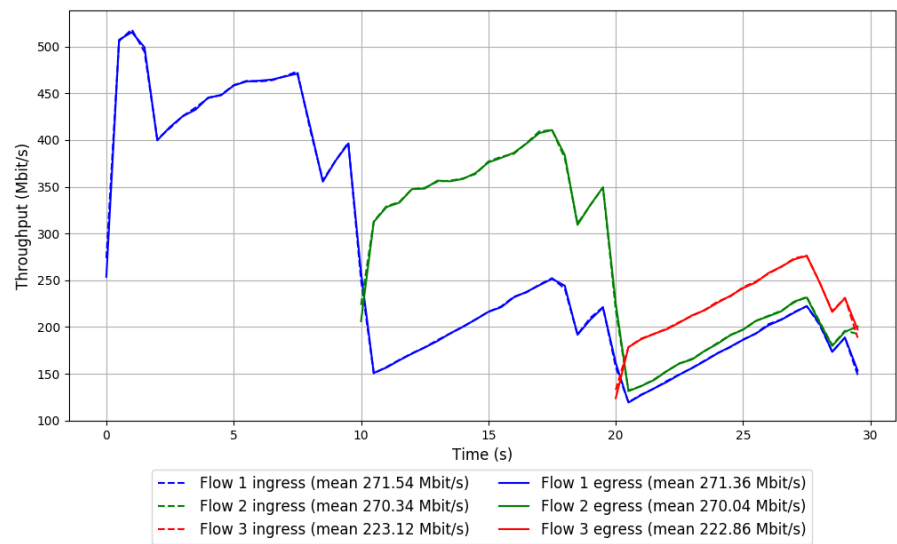


Run 5: Statistics of TCP Cubic

Start at: 2018-01-10 04:55:30  
End at: 2018-01-10 04:56:01  
Local clock offset: 1.172 ms  
Remote clock offset: -2.462 ms

# Below is generated by plot.py at 2018-01-10 10:27:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 524.95 Mbit/s  
95th percentile per-packet one-way delay: 19.331 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 271.36 Mbit/s  
95th percentile per-packet one-way delay: 19.304 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 270.04 Mbit/s  
95th percentile per-packet one-way delay: 19.308 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 222.86 Mbit/s  
95th percentile per-packet one-way delay: 19.429 ms  
Loss rate: 0.13%

Run 5: Report of TCP Cubic — Data Link

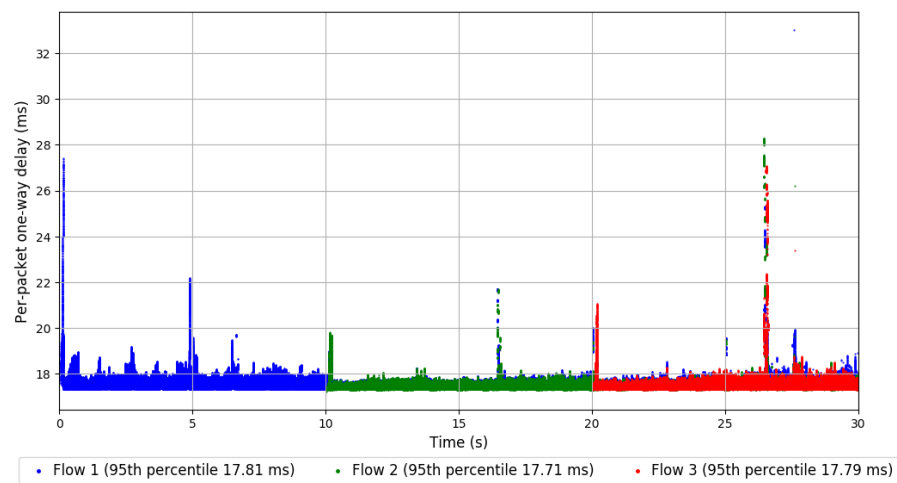
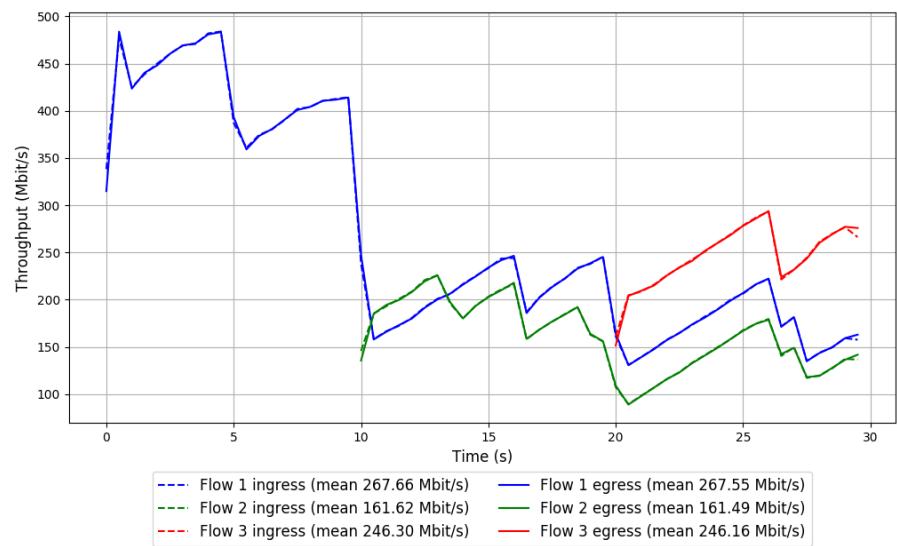


Run 6: Statistics of TCP Cubic

Start at: 2018-01-10 05:17:12  
End at: 2018-01-10 05:17:42  
Local clock offset: 1.33 ms  
Remote clock offset: -2.277 ms

# Below is generated by plot.py at 2018-01-10 10:27:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 456.88 Mbit/s  
95th percentile per-packet one-way delay: 17.786 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 267.55 Mbit/s  
95th percentile per-packet one-way delay: 17.814 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 161.49 Mbit/s  
95th percentile per-packet one-way delay: 17.707 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 246.16 Mbit/s  
95th percentile per-packet one-way delay: 17.789 ms  
Loss rate: 0.06%

Run 6: Report of TCP Cubic — Data Link



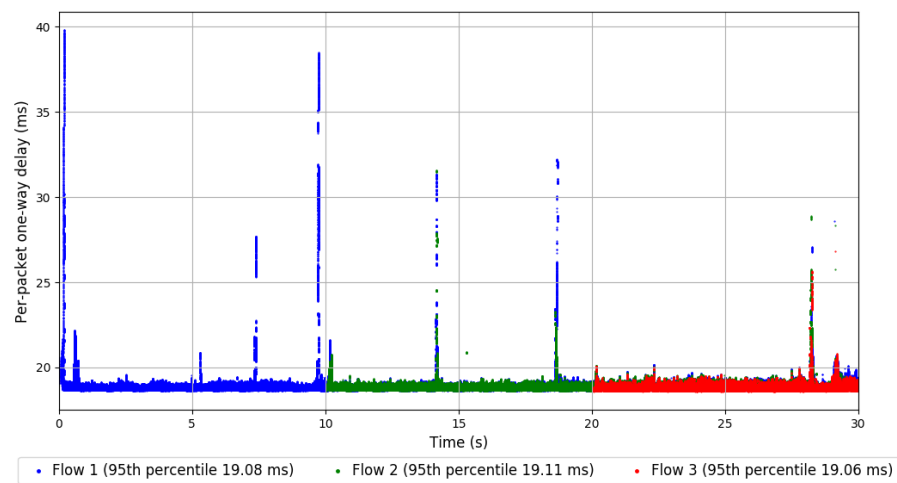
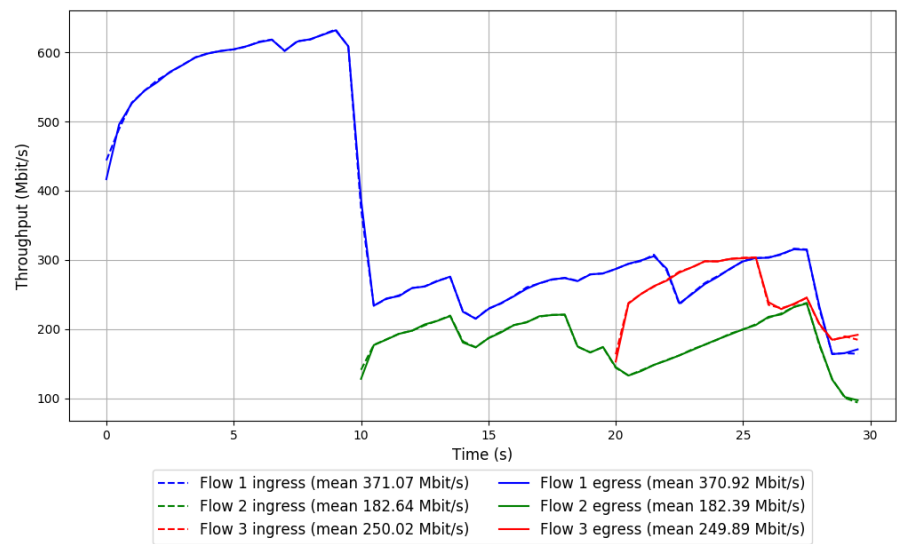
Run 7: Statistics of TCP Cubic

Start at: 2018-01-10 05:39:01  
End at: 2018-01-10 05:39:31  
Local clock offset: 0.963 ms  
Remote clock offset: -2.016 ms

# Below is generated by plot.py at 2018-01-10 10:40:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 575.31 Mbit/s  
95th percentile per-packet one-way delay: 19.083 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 370.92 Mbit/s  
95th percentile per-packet one-way delay: 19.076 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 182.39 Mbit/s  
95th percentile per-packet one-way delay: 19.115 ms  
Loss rate: 0.20%  
-- Flow 3:  
Average throughput: 249.89 Mbit/s  
95th percentile per-packet one-way delay: 19.061 ms  
Loss rate: 0.05%



Run 7: Report of TCP Cubic — Data Link

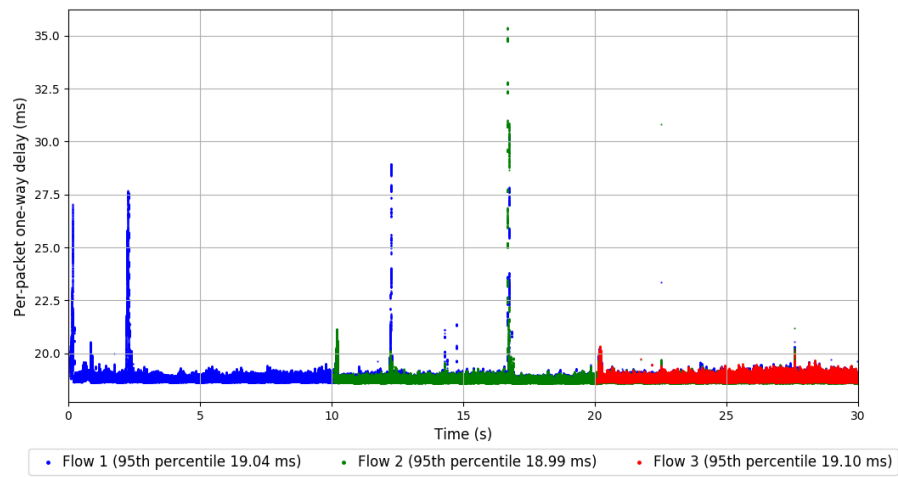
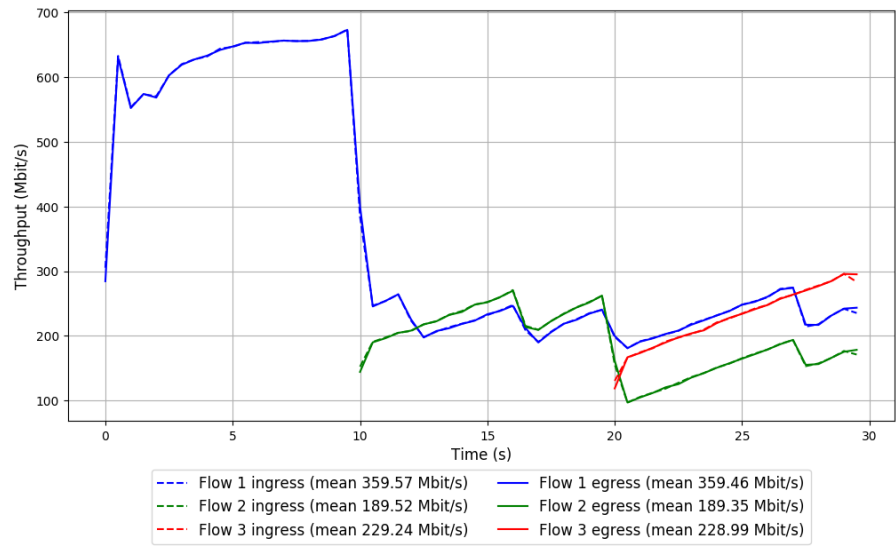


Run 8: Statistics of TCP Cubic

Start at: 2018-01-10 06:00:57  
End at: 2018-01-10 06:01:27  
Local clock offset: 0.586 ms  
Remote clock offset: -2.146 ms

# Below is generated by plot.py at 2018-01-10 10:40:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 561.56 Mbit/s  
95th percentile per-packet one-way delay: 19.038 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 359.46 Mbit/s  
95th percentile per-packet one-way delay: 19.035 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 189.35 Mbit/s  
95th percentile per-packet one-way delay: 18.986 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 228.99 Mbit/s  
95th percentile per-packet one-way delay: 19.097 ms  
Loss rate: 0.11%

# Run 8: Report of TCP Cubic — Data Link

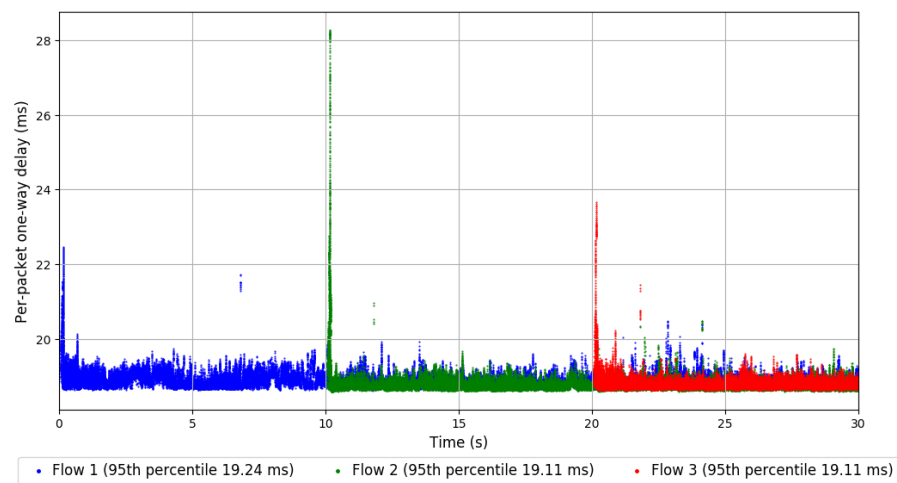
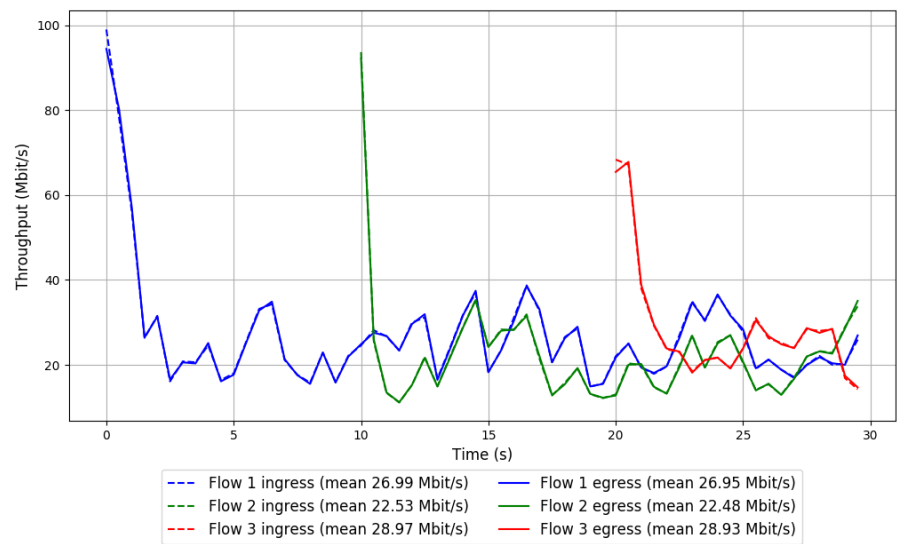


Run 9: Statistics of TCP Cubic

Start at: 2018-01-10 06:22:19  
End at: 2018-01-10 06:22:49  
Local clock offset: 0.184 ms  
Remote clock offset: -2.304 ms

# Below is generated by plot.py at 2018-01-10 10:40:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 51.51 Mbit/s  
95th percentile per-packet one-way delay: 19.202 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 26.95 Mbit/s  
95th percentile per-packet one-way delay: 19.238 ms  
Loss rate: 0.16%  
-- Flow 2:  
Average throughput: 22.48 Mbit/s  
95th percentile per-packet one-way delay: 19.111 ms  
Loss rate: 0.18%  
-- Flow 3:  
Average throughput: 28.93 Mbit/s  
95th percentile per-packet one-way delay: 19.113 ms  
Loss rate: 0.13%

Run 9: Report of TCP Cubic — Data Link

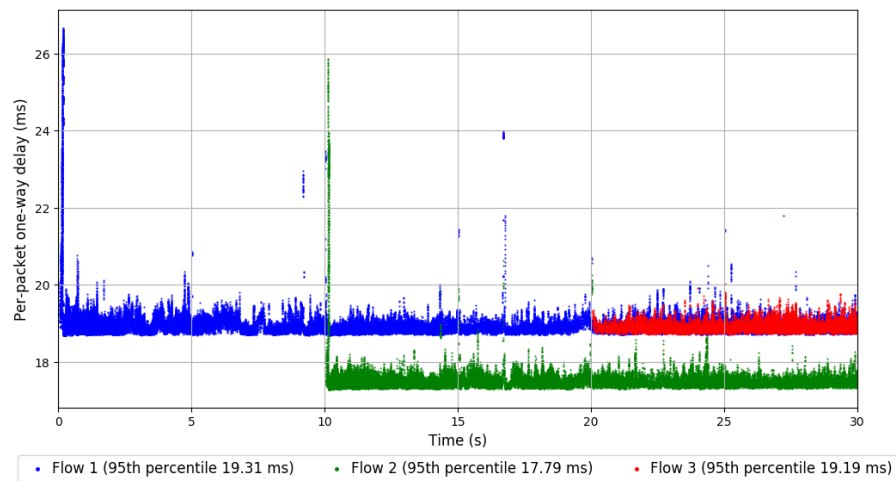
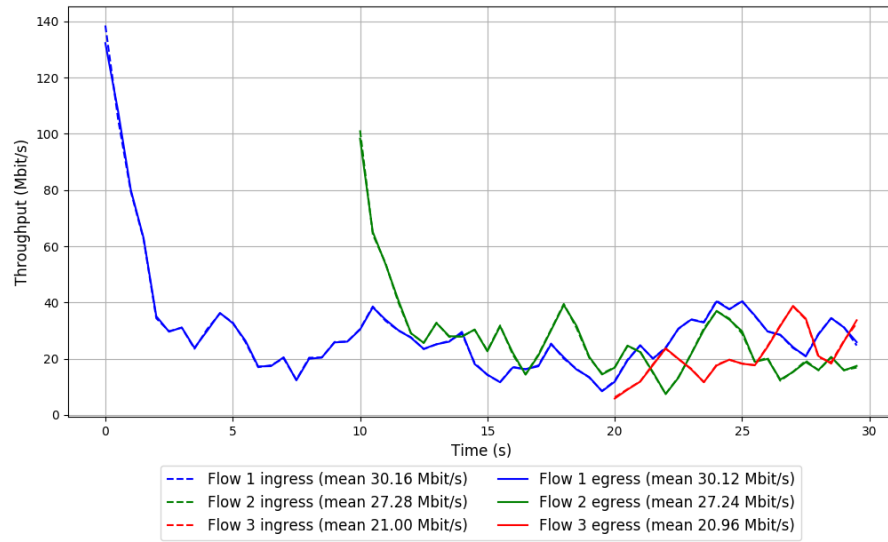


Run 10: Statistics of TCP Cubic

Start at: 2018-01-10 06:43:00  
End at: 2018-01-10 06:43:30  
Local clock offset: -0.106 ms  
Remote clock offset: -2.275 ms

# Below is generated by plot.py at 2018-01-10 10:40:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 55.21 Mbit/s  
95th percentile per-packet one-way delay: 19.223 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 30.12 Mbit/s  
95th percentile per-packet one-way delay: 19.306 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 27.24 Mbit/s  
95th percentile per-packet one-way delay: 17.785 ms  
Loss rate: 0.15%  
-- Flow 3:  
Average throughput: 20.96 Mbit/s  
95th percentile per-packet one-way delay: 19.193 ms  
Loss rate: 0.16%

# Run 10: Report of TCP Cubic — Data Link



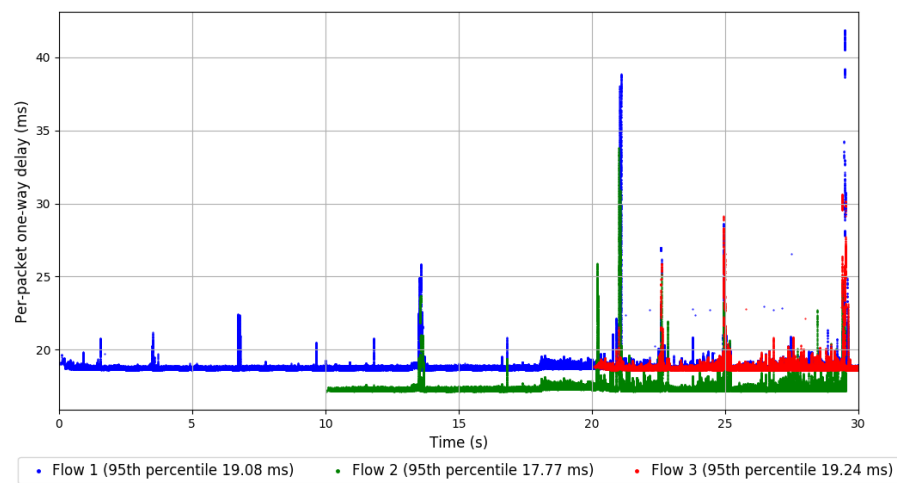
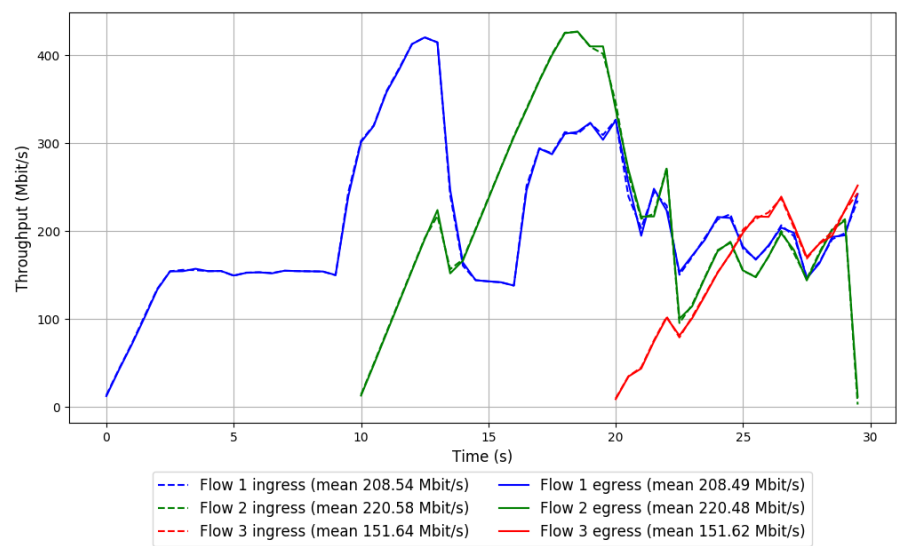
Run 1: Statistics of LEDBAT

Start at: 2018-01-10 03:22:15  
End at: 2018-01-10 03:22:45  
Local clock offset: -0.715 ms  
Remote clock offset: -2.578 ms

# Below is generated by plot.py at 2018-01-10 10:40:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 401.93 Mbit/s  
95th percentile per-packet one-way delay: 19.012 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 208.49 Mbit/s  
95th percentile per-packet one-way delay: 19.076 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 220.48 Mbit/s  
95th percentile per-packet one-way delay: 17.768 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 151.62 Mbit/s  
95th percentile per-packet one-way delay: 19.244 ms  
Loss rate: 0.01%



Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-01-10 03:44:05

End at: 2018-01-10 03:44:35

Local clock offset: -0.523 ms

Remote clock offset: -2.57 ms

# Below is generated by plot.py at 2018-01-10 10:40:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 423.42 Mbit/s

95th percentile per-packet one-way delay: 19.004 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 240.86 Mbit/s

95th percentile per-packet one-way delay: 18.962 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 205.98 Mbit/s

95th percentile per-packet one-way delay: 19.036 ms

Loss rate: 0.02%

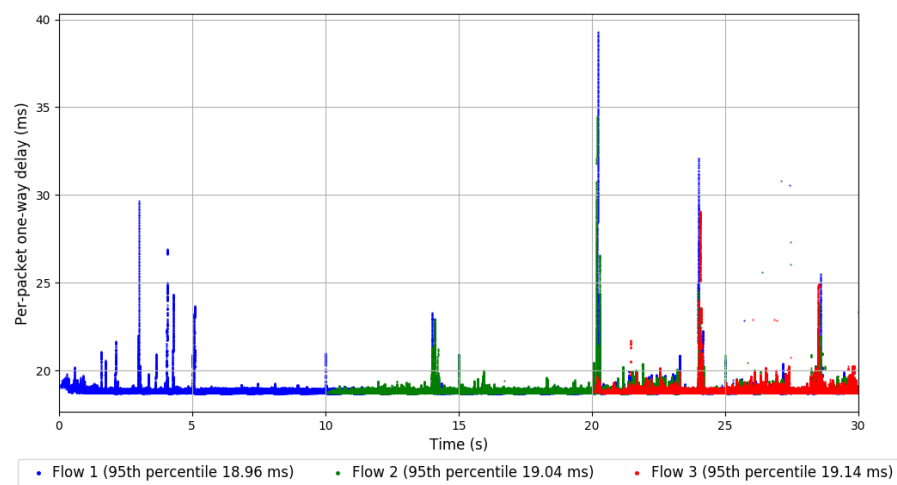
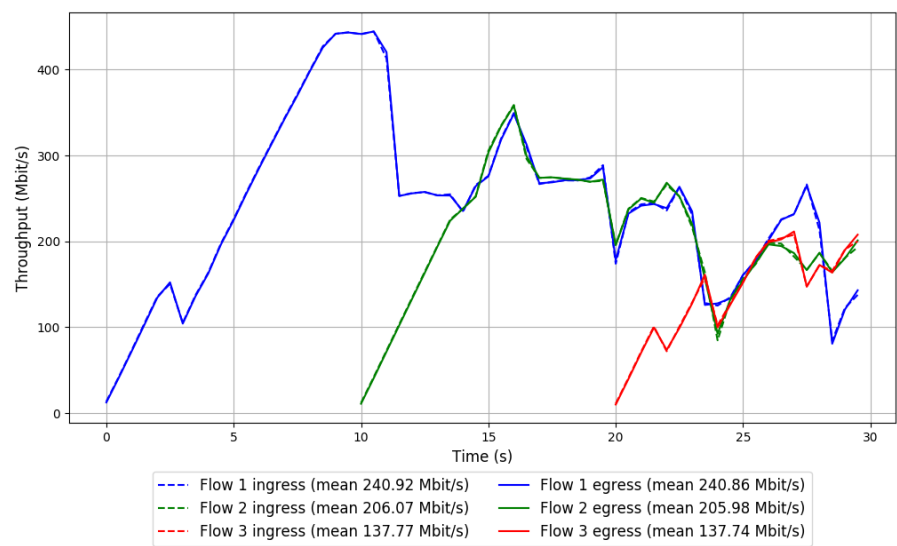
-- Flow 3:

Average throughput: 137.74 Mbit/s

95th percentile per-packet one-way delay: 19.144 ms

Loss rate: 0.03%

Run 2: Report of LEDBAT — Data Link

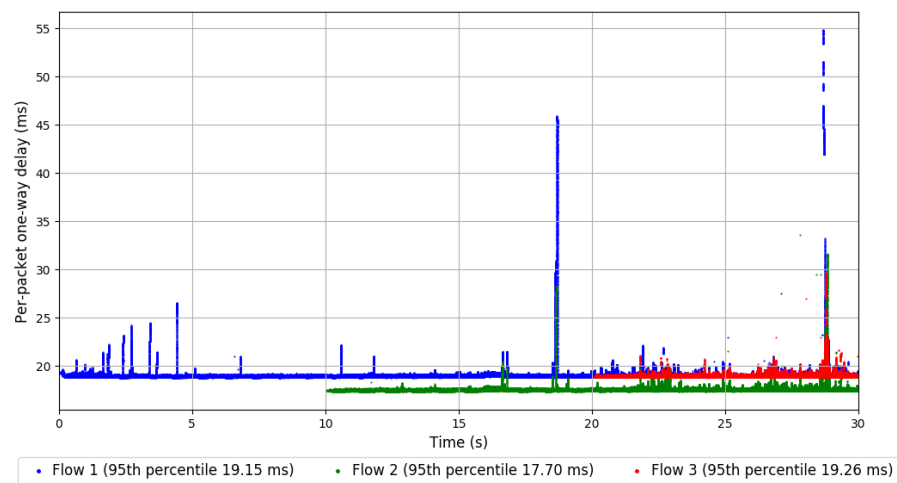
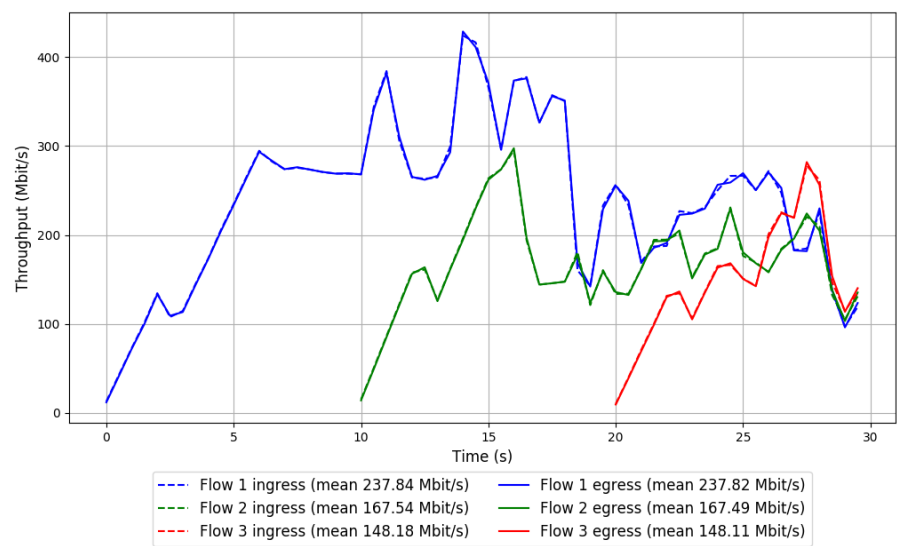


Run 3: Statistics of LEDBAT

Start at: 2018-01-10 04:06:02  
End at: 2018-01-10 04:06:32  
Local clock offset: 0.206 ms  
Remote clock offset: -2.414 ms

# Below is generated by plot.py at 2018-01-10 10:40:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 398.32 Mbit/s  
95th percentile per-packet one-way delay: 19.104 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 237.82 Mbit/s  
95th percentile per-packet one-way delay: 19.148 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 167.49 Mbit/s  
95th percentile per-packet one-way delay: 17.705 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 148.11 Mbit/s  
95th percentile per-packet one-way delay: 19.259 ms  
Loss rate: 0.02%

Run 3: Report of LEDBAT — Data Link

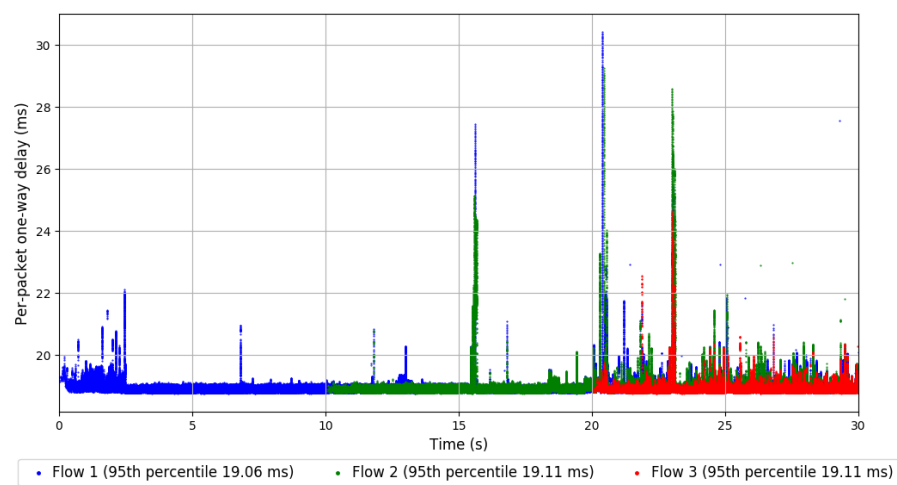
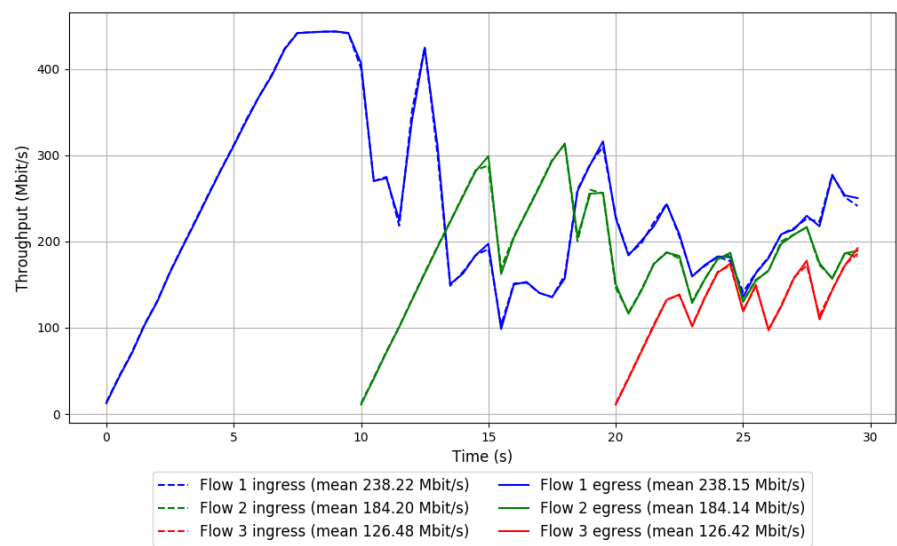


Run 4: Statistics of LEDBAT

Start at: 2018-01-10 04:27:59  
End at: 2018-01-10 04:28:29  
Local clock offset: 0.695 ms  
Remote clock offset: -2.218 ms

# Below is generated by plot.py at 2018-01-10 10:40:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 402.56 Mbit/s  
95th percentile per-packet one-way delay: 19.082 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 238.15 Mbit/s  
95th percentile per-packet one-way delay: 19.064 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 184.14 Mbit/s  
95th percentile per-packet one-way delay: 19.115 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 126.42 Mbit/s  
95th percentile per-packet one-way delay: 19.106 ms  
Loss rate: 0.04%

Run 4: Report of LEDBAT — Data Link



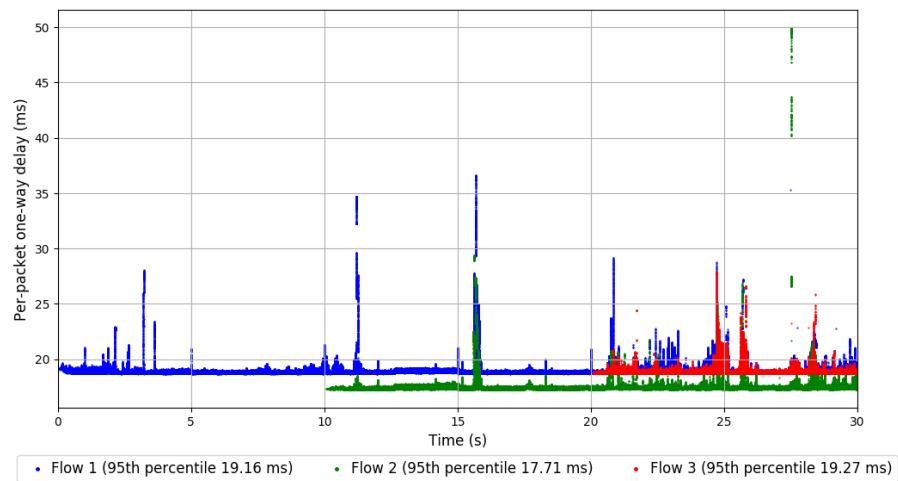
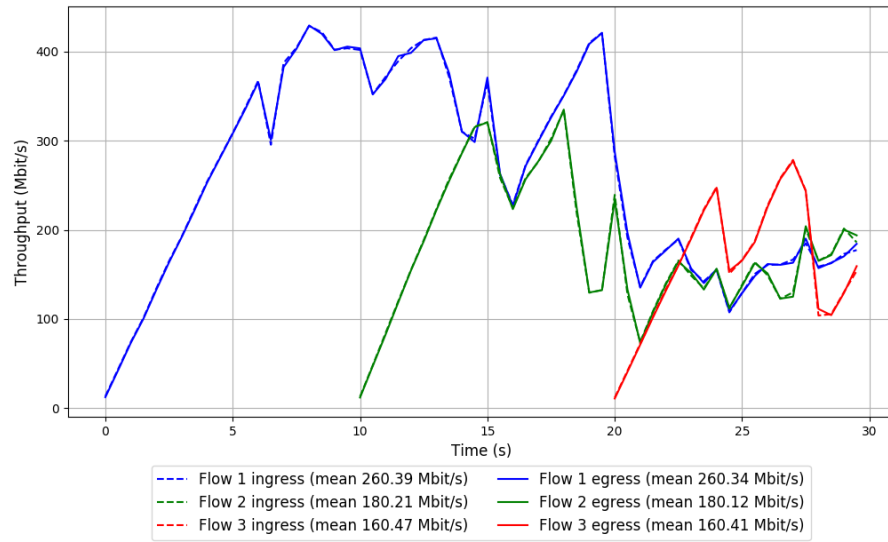
Run 5: Statistics of LEDBAT

Start at: 2018-01-10 04:49:38  
End at: 2018-01-10 04:50:08  
Local clock offset: 1.082 ms  
Remote clock offset: -2.438 ms

# Below is generated by plot.py at 2018-01-10 10:40:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 433.32 Mbit/s  
95th percentile per-packet one-way delay: 19.093 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 260.34 Mbit/s  
95th percentile per-packet one-way delay: 19.157 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 180.12 Mbit/s  
95th percentile per-packet one-way delay: 17.715 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 160.41 Mbit/s  
95th percentile per-packet one-way delay: 19.272 ms  
Loss rate: 0.05%



## Run 5: Report of LEDBAT — Data Link

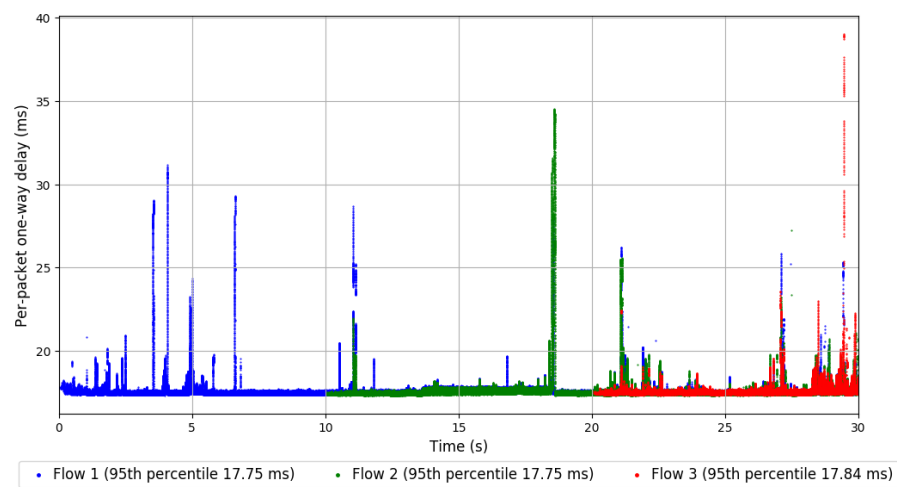
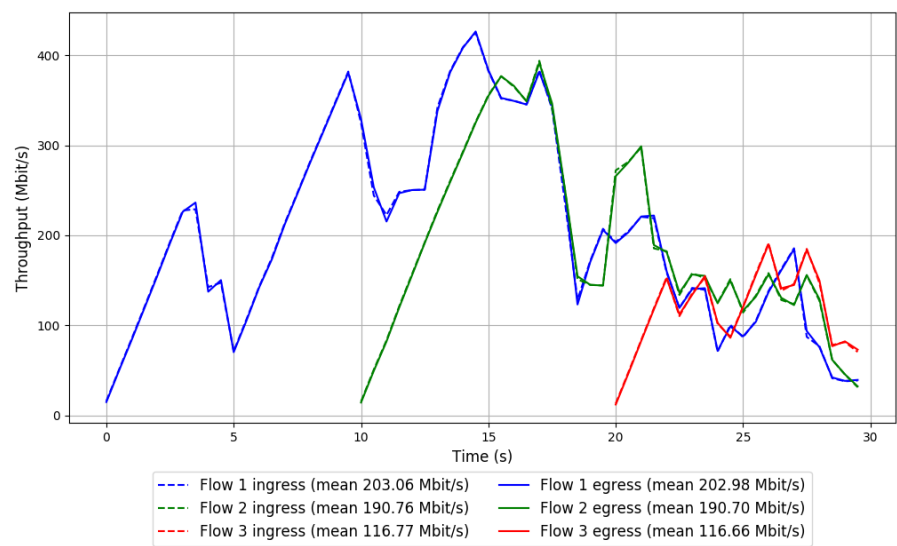


Run 6: Statistics of LEDBAT

Start at: 2018-01-10 05:11:23  
End at: 2018-01-10 05:11:53  
Local clock offset: 1.2 ms  
Remote clock offset: -2.396 ms

# Below is generated by plot.py at 2018-01-10 10:40:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 368.63 Mbit/s  
95th percentile per-packet one-way delay: 17.756 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 202.98 Mbit/s  
95th percentile per-packet one-way delay: 17.751 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 190.70 Mbit/s  
95th percentile per-packet one-way delay: 17.752 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 116.66 Mbit/s  
95th percentile per-packet one-way delay: 17.837 ms  
Loss rate: 0.09%

Run 6: Report of LEDBAT — Data Link

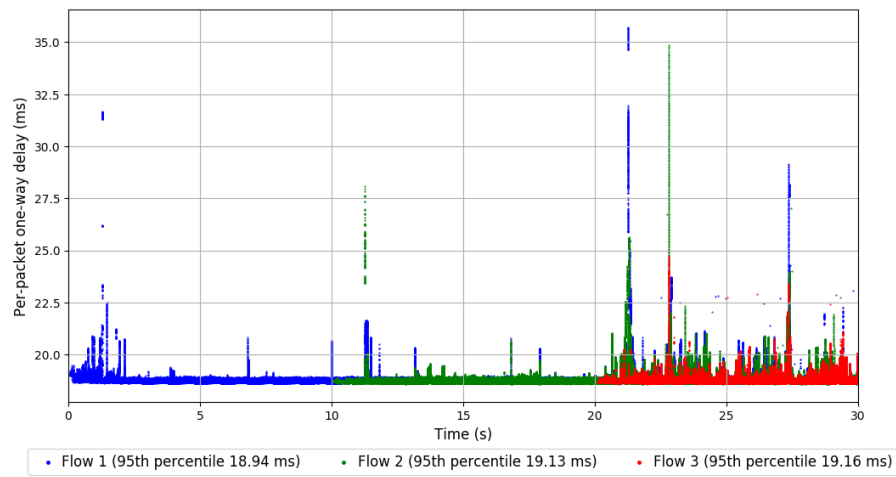
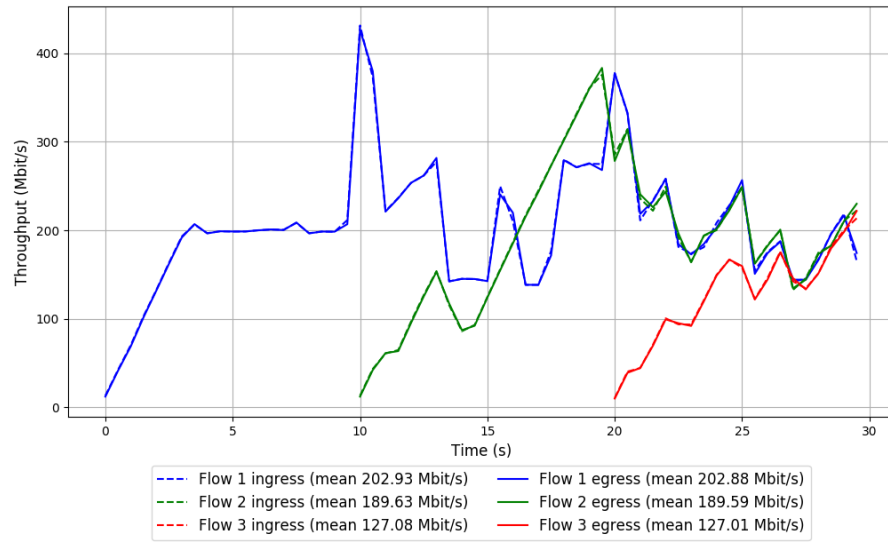


Run 7: Statistics of LEDBAT

Start at: 2018-01-10 05:33:13  
End at: 2018-01-10 05:33:43  
Local clock offset: 1.087 ms  
Remote clock offset: -2.094 ms

# Below is generated by plot.py at 2018-01-10 10:46:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 371.09 Mbit/s  
95th percentile per-packet one-way delay: 19.031 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 202.88 Mbit/s  
95th percentile per-packet one-way delay: 18.942 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 189.59 Mbit/s  
95th percentile per-packet one-way delay: 19.127 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 127.01 Mbit/s  
95th percentile per-packet one-way delay: 19.159 ms  
Loss rate: 0.05%

## Run 7: Report of LEDBAT — Data Link

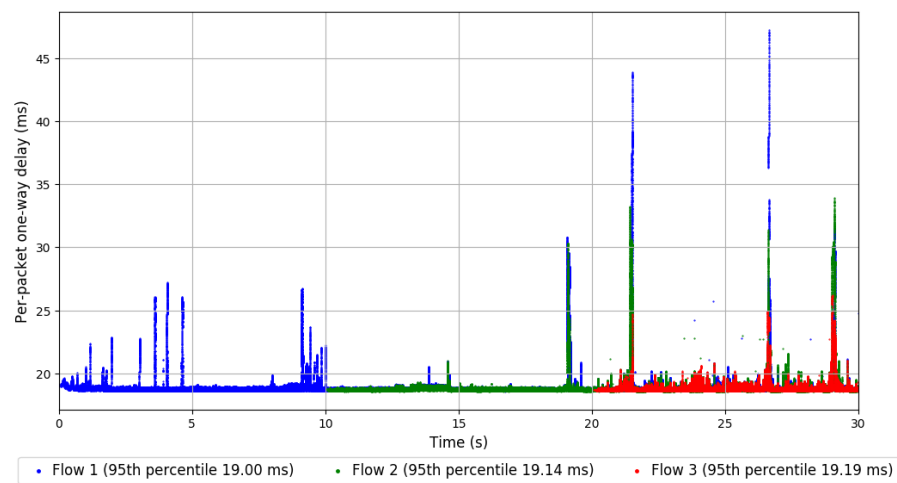
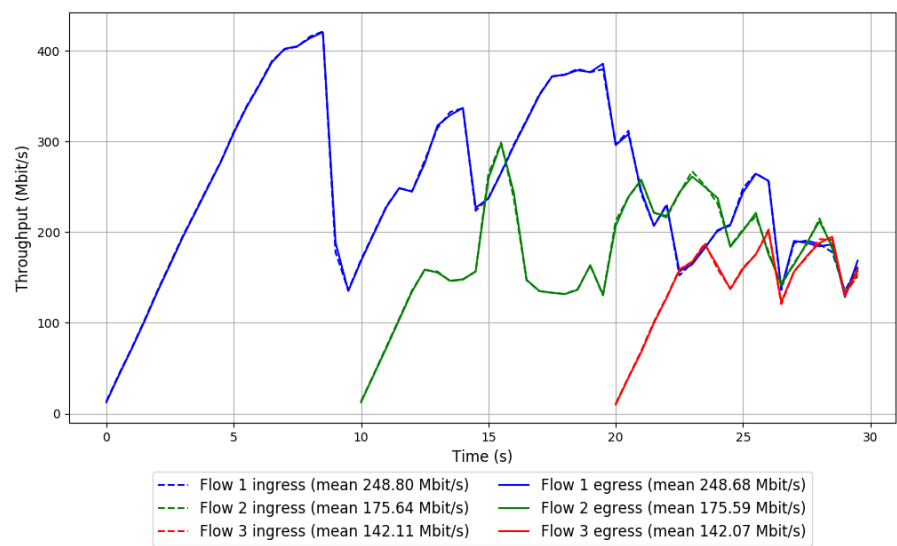


Run 8: Statistics of LEDBAT

Start at: 2018-01-10 05:55:05  
End at: 2018-01-10 05:55:35  
Local clock offset: 0.774 ms  
Remote clock offset: -2.185 ms

# Below is generated by plot.py at 2018-01-10 10:48:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 412.53 Mbit/s  
95th percentile per-packet one-way delay: 19.053 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 248.68 Mbit/s  
95th percentile per-packet one-way delay: 19.004 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 175.59 Mbit/s  
95th percentile per-packet one-way delay: 19.145 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 142.07 Mbit/s  
95th percentile per-packet one-way delay: 19.190 ms  
Loss rate: 0.03%

Run 8: Report of LEDBAT — Data Link



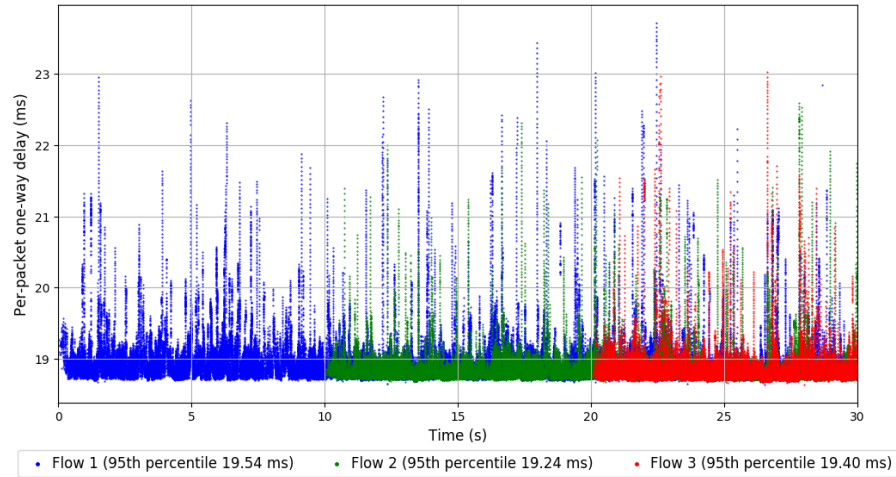
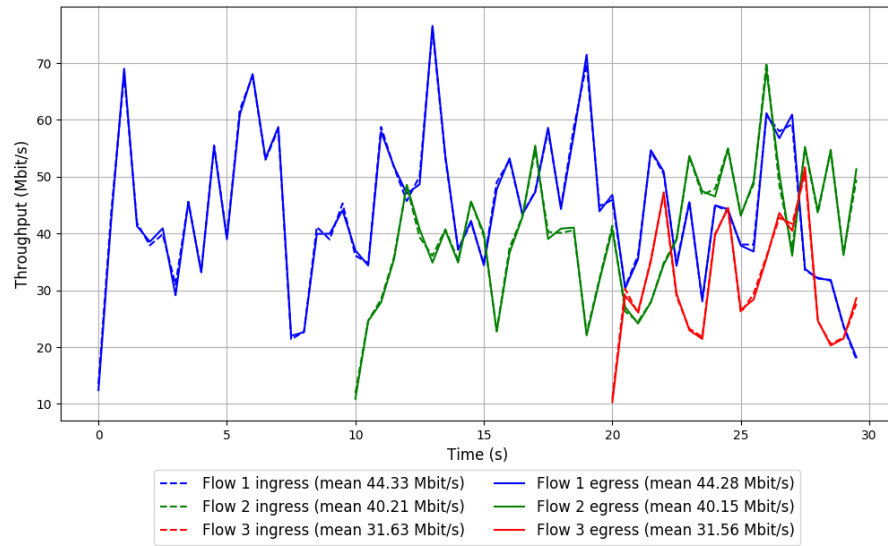
Run 9: Statistics of LEDBAT

Start at: 2018-01-10 06:17:02  
End at: 2018-01-10 06:17:32  
Local clock offset: 0.292 ms  
Remote clock offset: -2.242 ms

# Below is generated by plot.py at 2018-01-10 10:48:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.45 Mbit/s  
95th percentile per-packet one-way delay: 19.435 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 44.28 Mbit/s  
95th percentile per-packet one-way delay: 19.544 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 40.15 Mbit/s  
95th percentile per-packet one-way delay: 19.238 ms  
Loss rate: 0.15%  
-- Flow 3:  
Average throughput: 31.56 Mbit/s  
95th percentile per-packet one-way delay: 19.401 ms  
Loss rate: 0.20%



# Run 9: Report of LEDBAT — Data Link

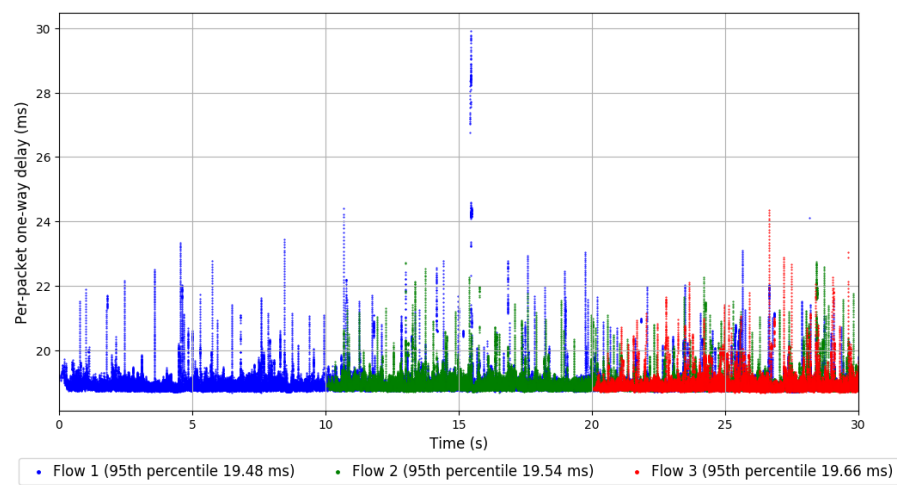
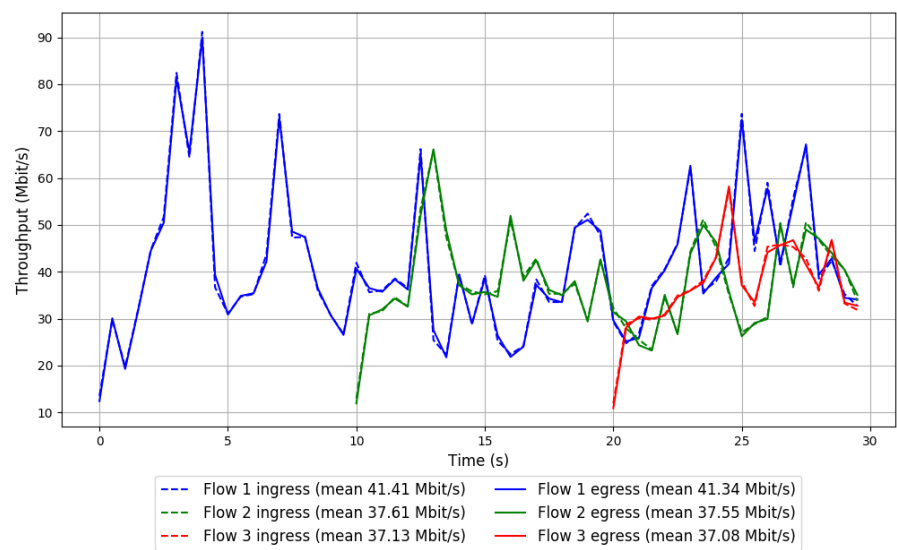


Run 10: Statistics of LEDBAT

Start at: 2018-01-10 06:37:45  
End at: 2018-01-10 06:38:15  
Local clock offset: -0.059 ms  
Remote clock offset: -2.161 ms

# Below is generated by plot.py at 2018-01-10 10:48:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.66 Mbit/s  
95th percentile per-packet one-way delay: 19.524 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 41.34 Mbit/s  
95th percentile per-packet one-way delay: 19.477 ms  
Loss rate: 0.16%  
-- Flow 2:  
Average throughput: 37.55 Mbit/s  
95th percentile per-packet one-way delay: 19.539 ms  
Loss rate: 0.16%  
-- Flow 3:  
Average throughput: 37.08 Mbit/s  
95th percentile per-packet one-way delay: 19.661 ms  
Loss rate: 0.13%

Run 10: Report of LEDBAT — Data Link

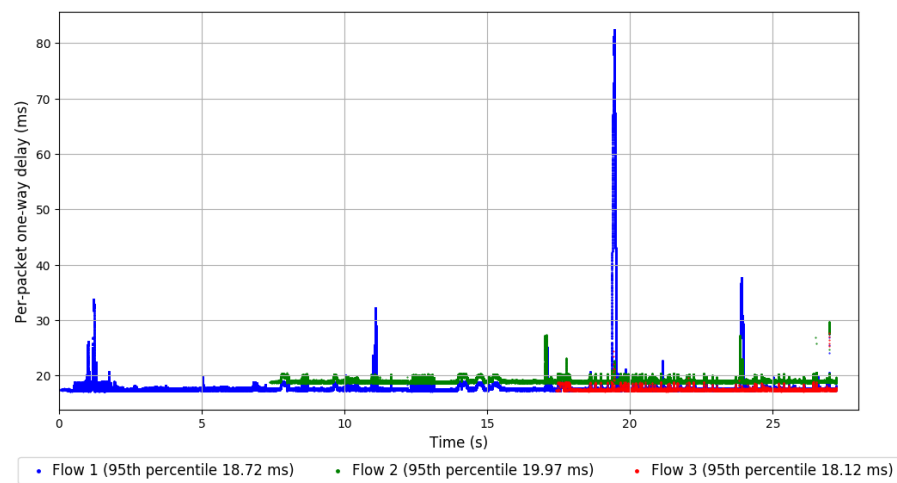
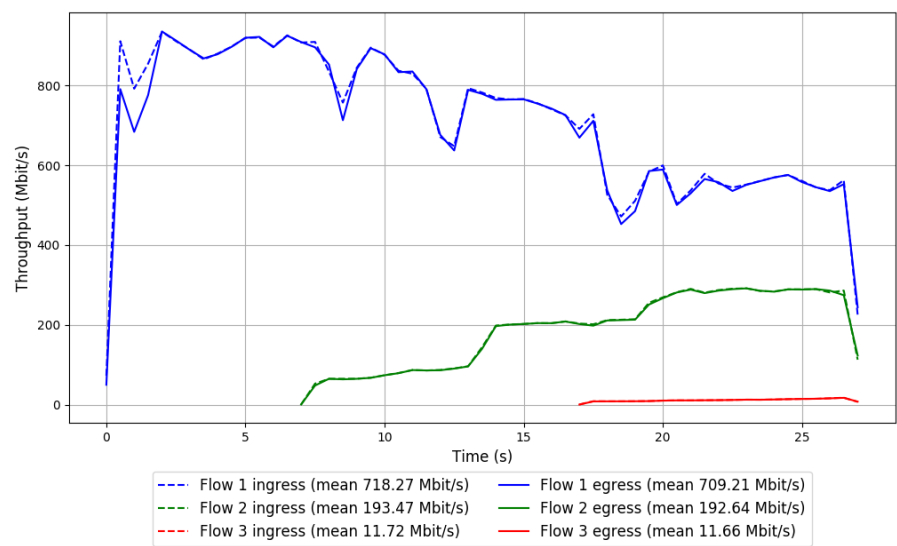


Run 1: Statistics of PCC

Start at: 2018-01-10 03:26:30  
End at: 2018-01-10 03:27:00  
Local clock offset: -0.657 ms  
Remote clock offset: -2.531 ms

# Below is generated by plot.py at 2018-01-10 10:59:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 853.98 Mbit/s  
95th percentile per-packet one-way delay: 19.098 ms  
Loss rate: 1.12%  
-- Flow 1:  
Average throughput: 709.21 Mbit/s  
95th percentile per-packet one-way delay: 18.720 ms  
Loss rate: 1.26%  
-- Flow 2:  
Average throughput: 192.64 Mbit/s  
95th percentile per-packet one-way delay: 19.972 ms  
Loss rate: 0.43%  
-- Flow 3:  
Average throughput: 11.66 Mbit/s  
95th percentile per-packet one-way delay: 18.118 ms  
Loss rate: 0.51%

Run 1: Report of PCC — Data Link

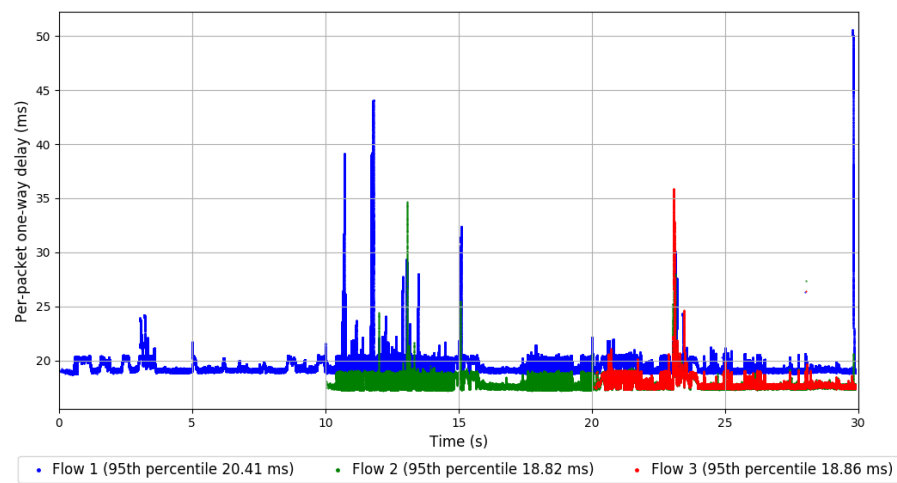
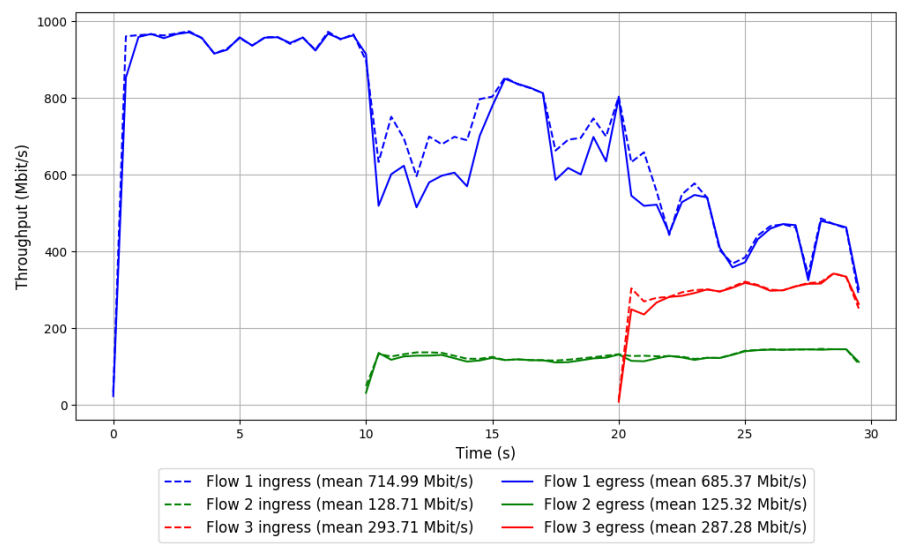


Run 2: Statistics of PCC

Start at: 2018-01-10 03:48:21  
End at: 2018-01-10 03:48:51  
Local clock offset: -0.458 ms  
Remote clock offset: -2.514 ms

# Below is generated by plot.py at 2018-01-10 11:02:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 862.98 Mbit/s  
95th percentile per-packet one-way delay: 20.360 ms  
Loss rate: 3.79%  
-- Flow 1:  
Average throughput: 685.37 Mbit/s  
95th percentile per-packet one-way delay: 20.410 ms  
Loss rate: 4.14%  
-- Flow 2:  
Average throughput: 125.32 Mbit/s  
95th percentile per-packet one-way delay: 18.816 ms  
Loss rate: 2.63%  
-- Flow 3:  
Average throughput: 287.28 Mbit/s  
95th percentile per-packet one-way delay: 18.855 ms  
Loss rate: 2.19%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-10 04:10:12

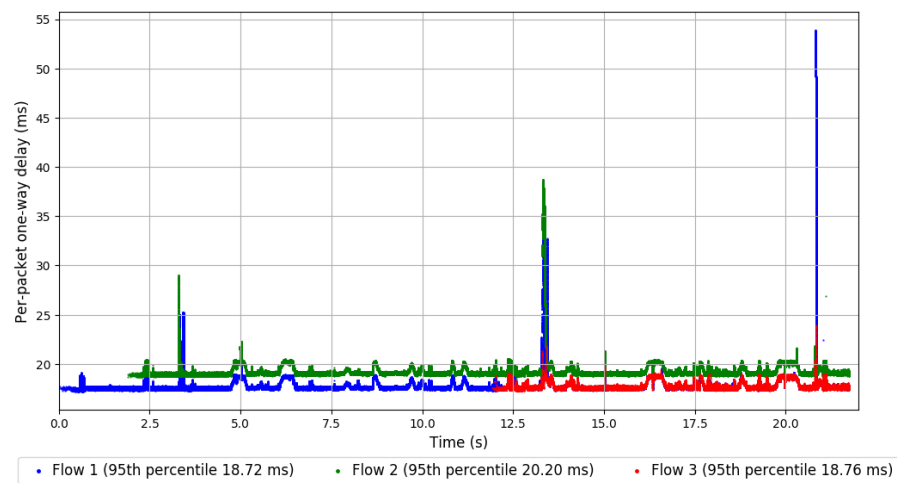
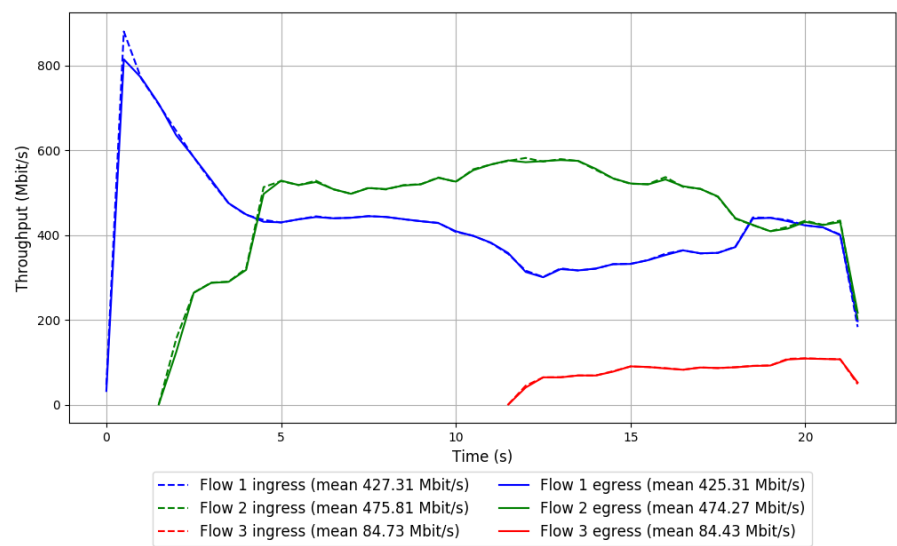
End at: 2018-01-10 04:10:42

Local clock offset: 0.303 ms

Remote clock offset: -2.515 ms



Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

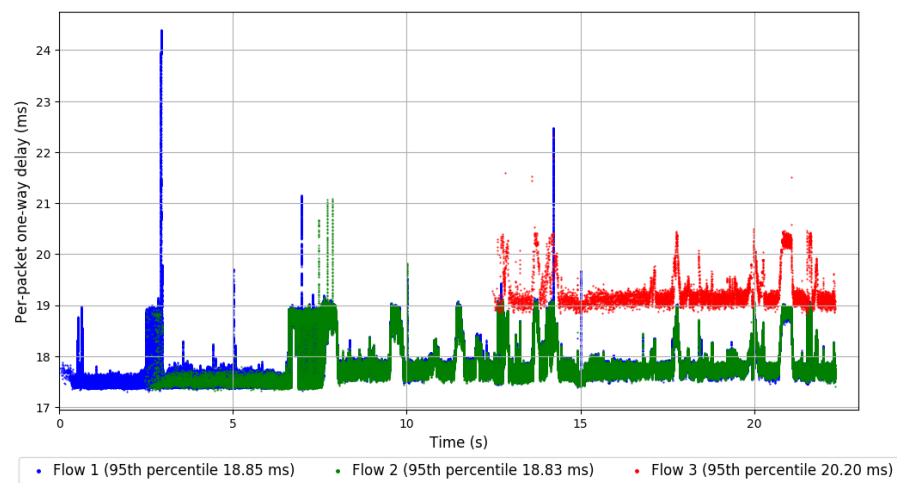
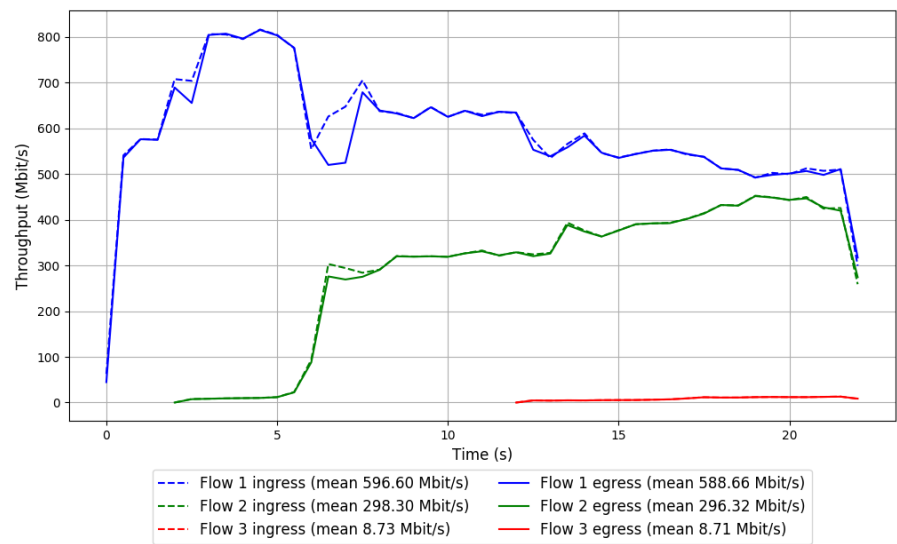
Start at: 2018-01-10 04:32:10

End at: 2018-01-10 04:32:40

Local clock offset: 0.801 ms

Remote clock offset: -2.11 ms

Run 4: Report of PCC — Data Link

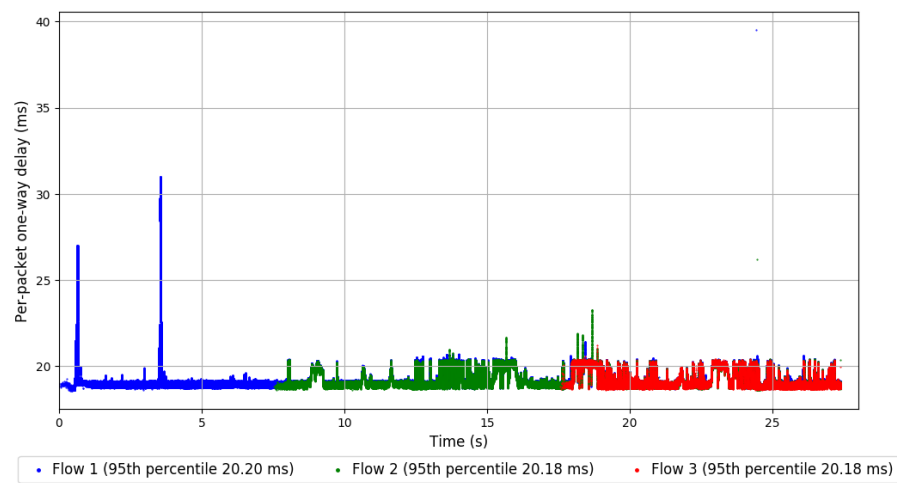
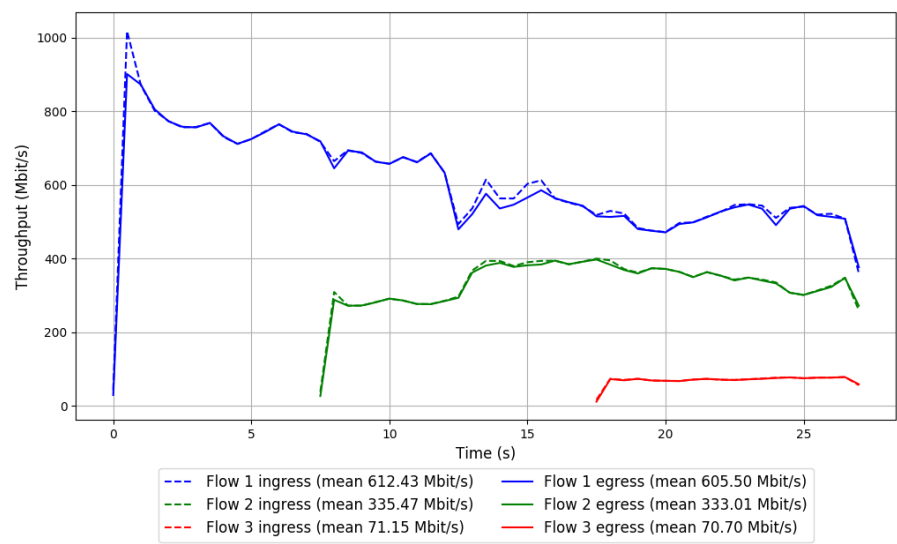


Run 5: Statistics of PCC

Start at: 2018-01-10 04:53:55  
End at: 2018-01-10 04:54:25  
Local clock offset: 1.158 ms  
Remote clock offset: -2.535 ms

# Below is generated by plot.py at 2018-01-10 11:02:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 872.32 Mbit/s  
95th percentile per-packet one-way delay: 20.196 ms  
Loss rate: 1.02%  
-- Flow 1:  
Average throughput: 605.50 Mbit/s  
95th percentile per-packet one-way delay: 20.203 ms  
Loss rate: 1.14%  
-- Flow 2:  
Average throughput: 333.01 Mbit/s  
95th percentile per-packet one-way delay: 20.181 ms  
Loss rate: 0.75%  
-- Flow 3:  
Average throughput: 70.70 Mbit/s  
95th percentile per-packet one-way delay: 20.176 ms  
Loss rate: 0.64%

Run 5: Report of PCC — Data Link

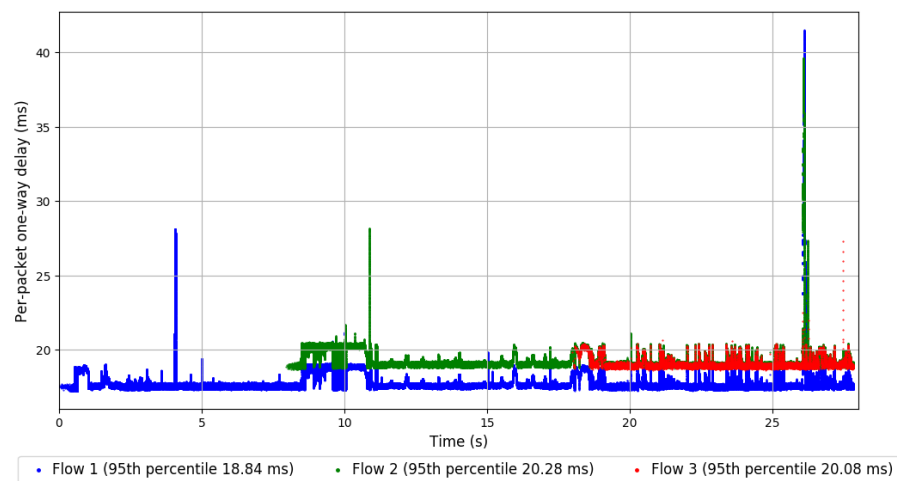
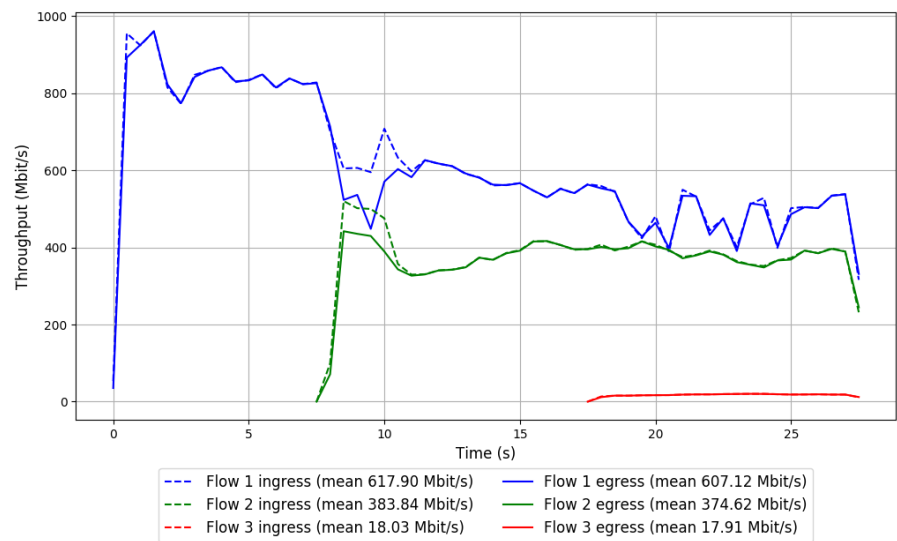


Run 6: Statistics of PCC

Start at: 2018-01-10 05:15:36  
End at: 2018-01-10 05:16:06  
Local clock offset: 1.334 ms  
Remote clock offset: -2.323 ms

# Below is generated by plot.py at 2018-01-10 11:02:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 880.94 Mbit/s  
95th percentile per-packet one-way delay: 19.988 ms  
Loss rate: 1.94%  
-- Flow 1:  
Average throughput: 607.12 Mbit/s  
95th percentile per-packet one-way delay: 18.843 ms  
Loss rate: 1.74%  
-- Flow 2:  
Average throughput: 374.62 Mbit/s  
95th percentile per-packet one-way delay: 20.279 ms  
Loss rate: 2.40%  
-- Flow 3:  
Average throughput: 17.91 Mbit/s  
95th percentile per-packet one-way delay: 20.077 ms  
Loss rate: 0.64%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-10 05:37:26

End at: 2018-01-10 05:37:56

Local clock offset: 0.964 ms

Remote clock offset: -1.97 ms

# Below is generated by plot.py at 2018-01-10 11:08:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 858.25 Mbit/s

95th percentile per-packet one-way delay: 20.292 ms

Loss rate: 1.92%

-- Flow 1:

Average throughput: 497.95 Mbit/s

95th percentile per-packet one-way delay: 20.283 ms

Loss rate: 1.97%

-- Flow 2:

Average throughput: 427.29 Mbit/s

95th percentile per-packet one-way delay: 20.315 ms

Loss rate: 1.99%

-- Flow 3:

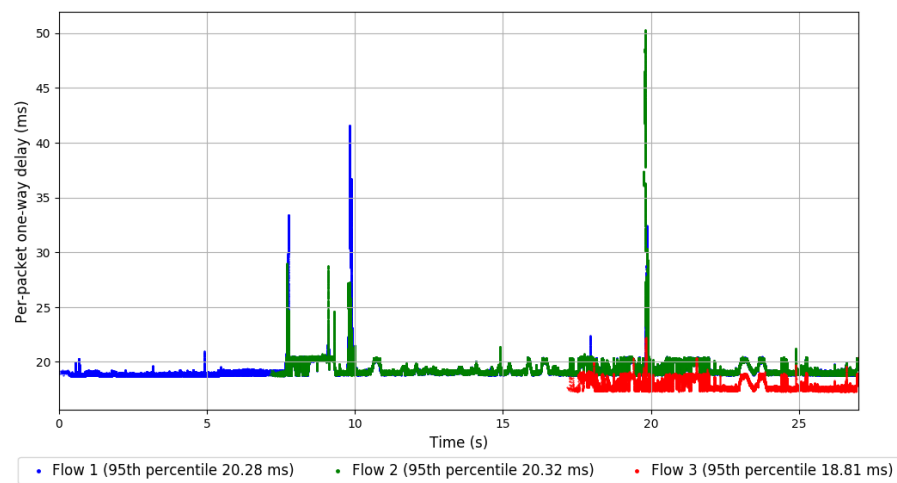
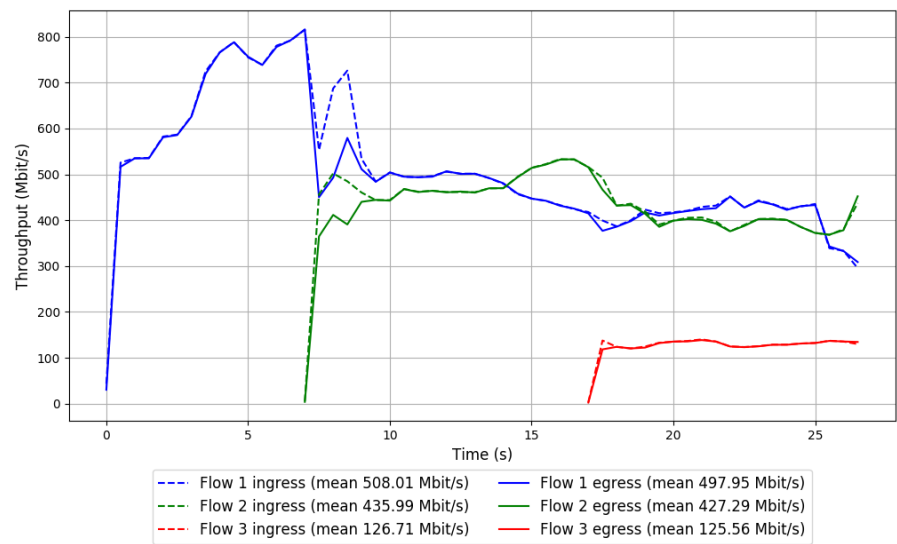
Average throughput: 125.56 Mbit/s

95th percentile per-packet one-way delay: 18.807 ms

Loss rate: 0.90%



Run 7: Report of PCC — Data Link

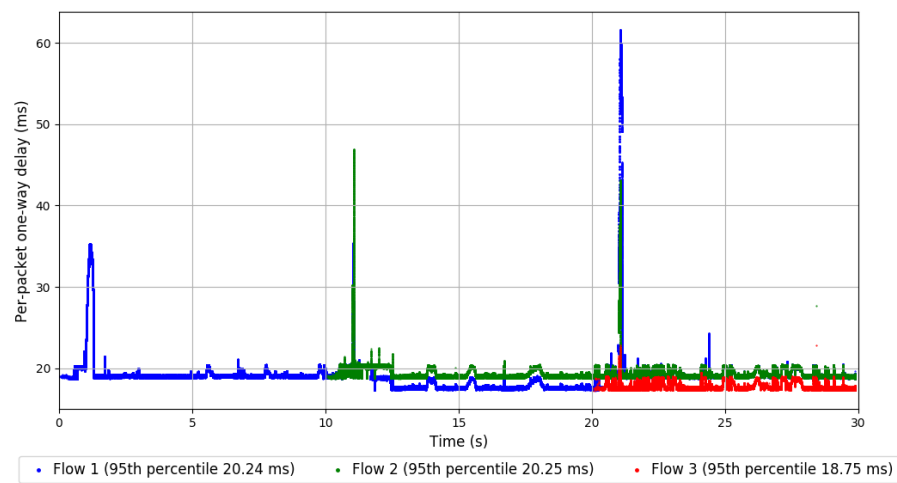
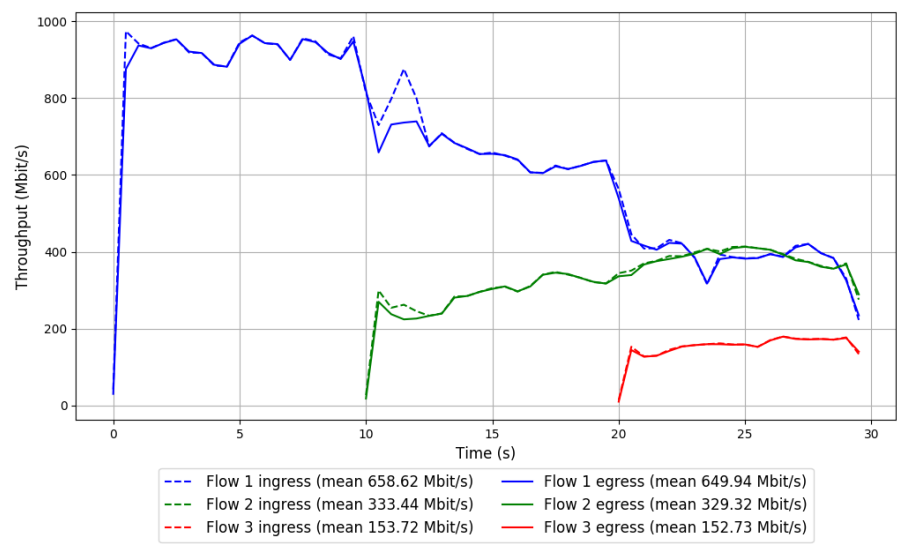


Run 8: Statistics of PCC

Start at: 2018-01-10 05:59:18  
End at: 2018-01-10 05:59:48  
Local clock offset: 0.671 ms  
Remote clock offset: -2.054 ms

# Below is generated by plot.py at 2018-01-10 11:14:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 918.84 Mbit/s  
95th percentile per-packet one-way delay: 20.238 ms  
Loss rate: 1.26%  
-- Flow 1:  
Average throughput: 649.94 Mbit/s  
95th percentile per-packet one-way delay: 20.242 ms  
Loss rate: 1.32%  
-- Flow 2:  
Average throughput: 329.32 Mbit/s  
95th percentile per-packet one-way delay: 20.251 ms  
Loss rate: 1.24%  
-- Flow 3:  
Average throughput: 152.73 Mbit/s  
95th percentile per-packet one-way delay: 18.748 ms  
Loss rate: 0.64%

Run 8: Report of PCC — Data Link

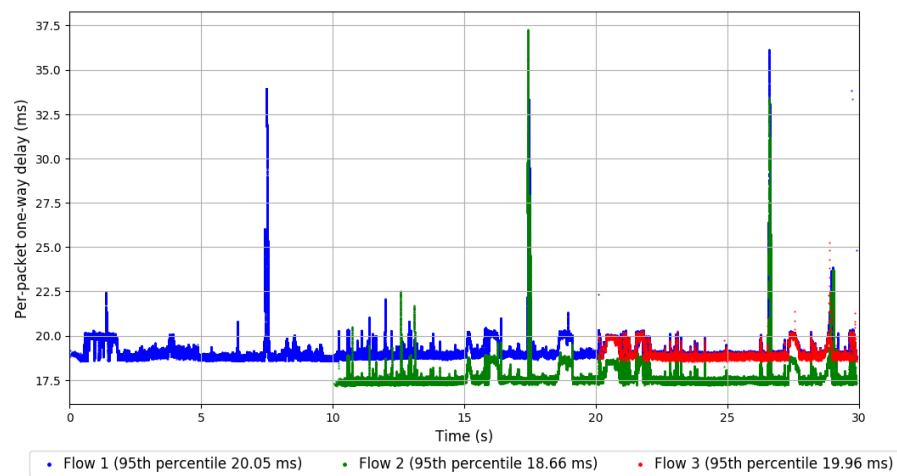
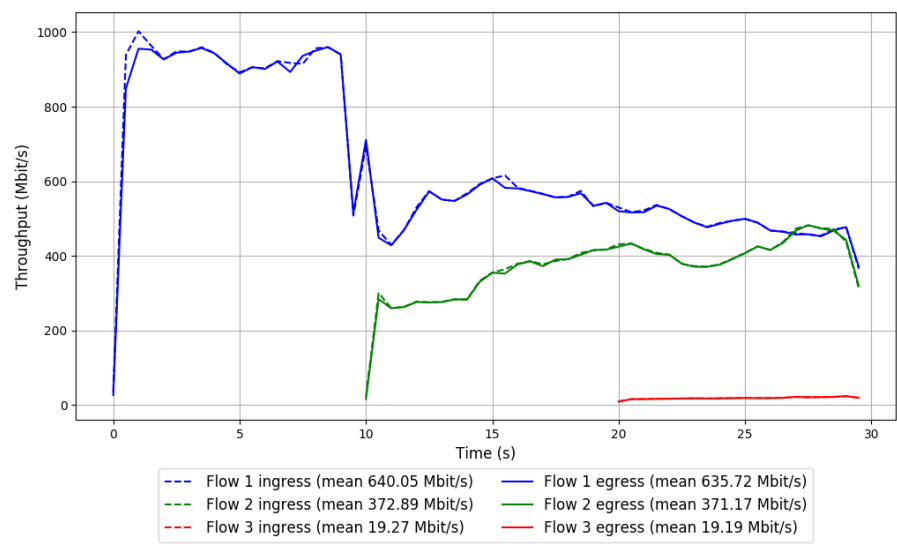


Run 9: Statistics of PCC

Start at: 2018-01-10 06:20:41  
End at: 2018-01-10 06:21:11  
Local clock offset: 0.225 ms  
Remote clock offset: -2.345 ms

# Below is generated by plot.py at 2018-01-10 11:21:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 888.42 Mbit/s  
95th percentile per-packet one-way delay: 20.011 ms  
Loss rate: 0.60%  
-- Flow 1:  
Average throughput: 635.72 Mbit/s  
95th percentile per-packet one-way delay: 20.055 ms  
Loss rate: 0.66%  
-- Flow 2:  
Average throughput: 371.17 Mbit/s  
95th percentile per-packet one-way delay: 18.659 ms  
Loss rate: 0.46%  
-- Flow 3:  
Average throughput: 19.19 Mbit/s  
95th percentile per-packet one-way delay: 19.959 ms  
Loss rate: 0.42%

Run 9: Report of PCC — Data Link

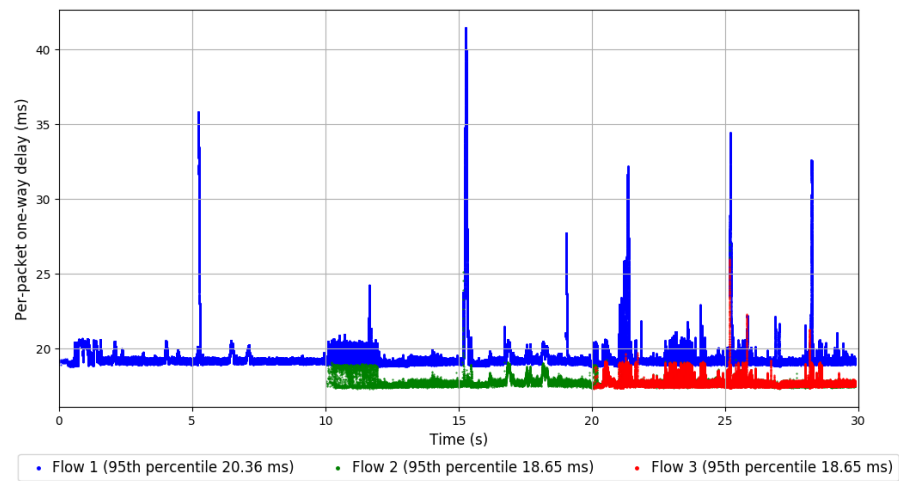
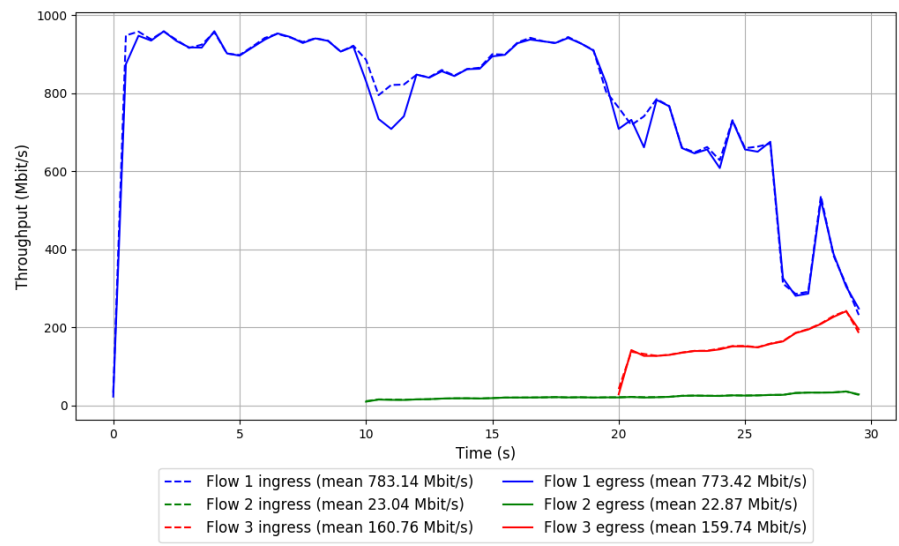


Run 10: Statistics of PCC

Start at: 2018-01-10 06:41:24  
End at: 2018-01-10 06:41:54  
Local clock offset: -0.092 ms  
Remote clock offset: -2.101 ms

# Below is generated by plot.py at 2018-01-10 11:21:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 841.27 Mbit/s  
95th percentile per-packet one-way delay: 20.340 ms  
Loss rate: 1.20%  
-- Flow 1:  
Average throughput: 773.42 Mbit/s  
95th percentile per-packet one-way delay: 20.359 ms  
Loss rate: 1.24%  
-- Flow 2:  
Average throughput: 22.87 Mbit/s  
95th percentile per-packet one-way delay: 18.646 ms  
Loss rate: 0.75%  
-- Flow 3:  
Average throughput: 159.74 Mbit/s  
95th percentile per-packet one-way delay: 18.648 ms  
Loss rate: 0.63%

Run 10: Report of PCC — Data Link



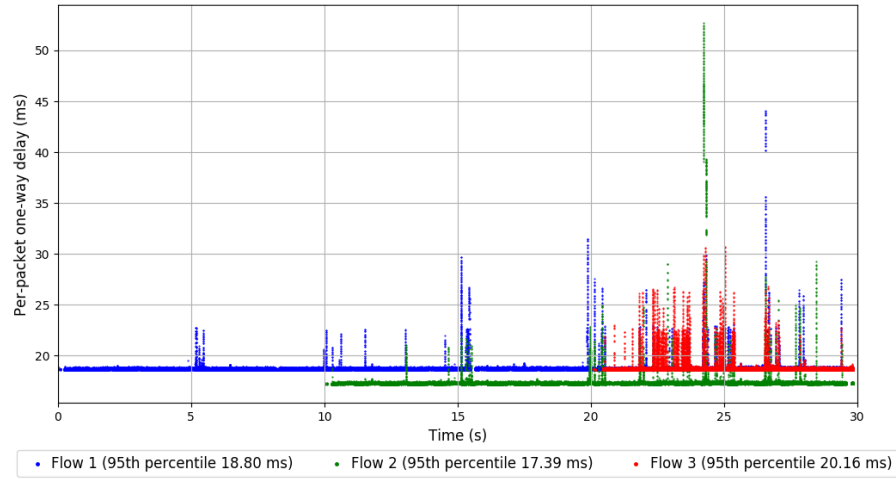
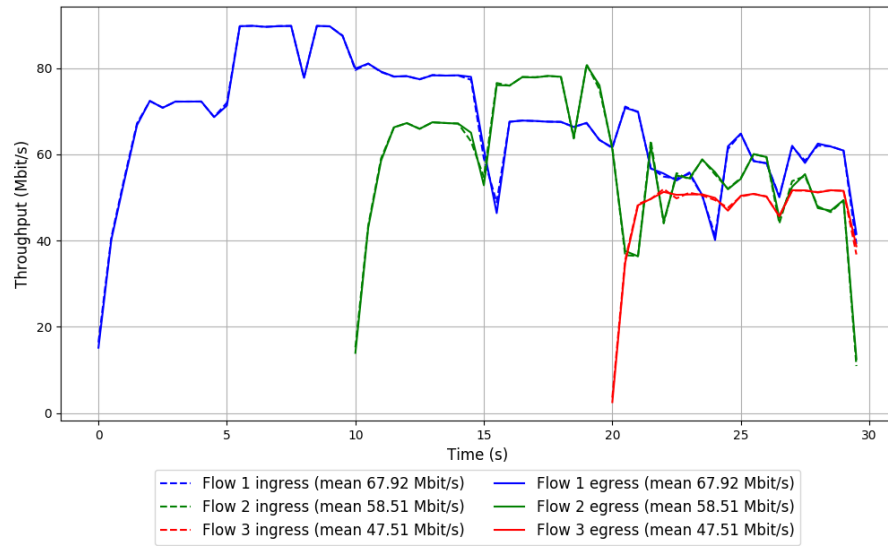
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-10 03:16:59  
End at: 2018-01-10 03:17:29  
Local clock offset: -0.813 ms  
Remote clock offset: -2.699 ms

# Below is generated by plot.py at 2018-01-10 11:21:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 122.36 Mbit/s  
95th percentile per-packet one-way delay: 18.798 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 67.92 Mbit/s  
95th percentile per-packet one-way delay: 18.804 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 58.51 Mbit/s  
95th percentile per-packet one-way delay: 17.395 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 47.51 Mbit/s  
95th percentile per-packet one-way delay: 20.162 ms  
Loss rate: 0.00%



# Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-01-10 03:38:47

End at: 2018-01-10 03:39:17

Local clock offset: -0.511 ms

Remote clock offset: -2.56 ms

# Below is generated by plot.py at 2018-01-10 11:21:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 113.06 Mbit/s

95th percentile per-packet one-way delay: 17.531 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 54.80 Mbit/s

95th percentile per-packet one-way delay: 17.500 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.32 Mbit/s

95th percentile per-packet one-way delay: 17.560 ms

Loss rate: 0.00%

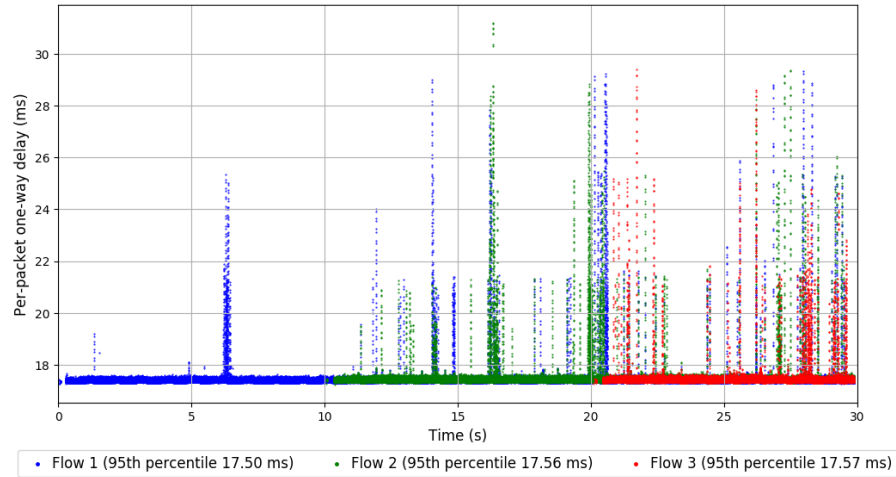
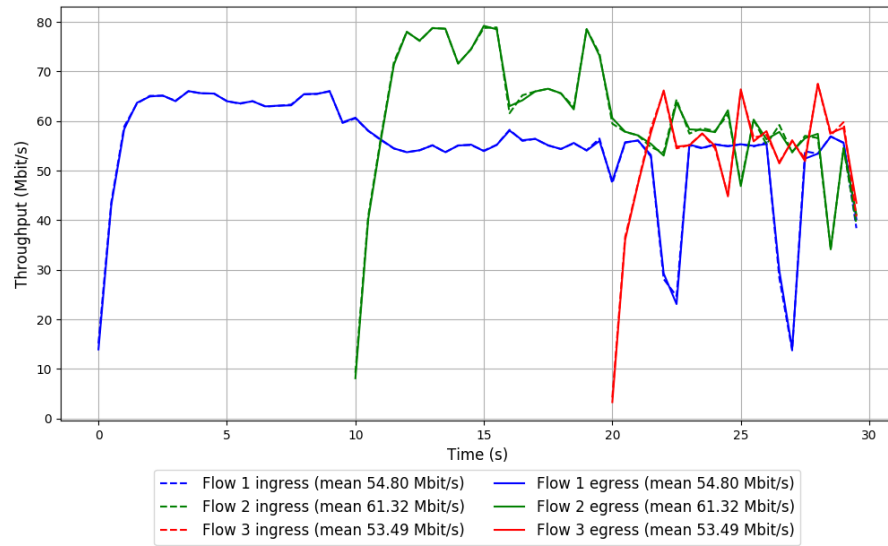
-- Flow 3:

Average throughput: 53.49 Mbit/s

95th percentile per-packet one-way delay: 17.569 ms

Loss rate: 0.00%

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

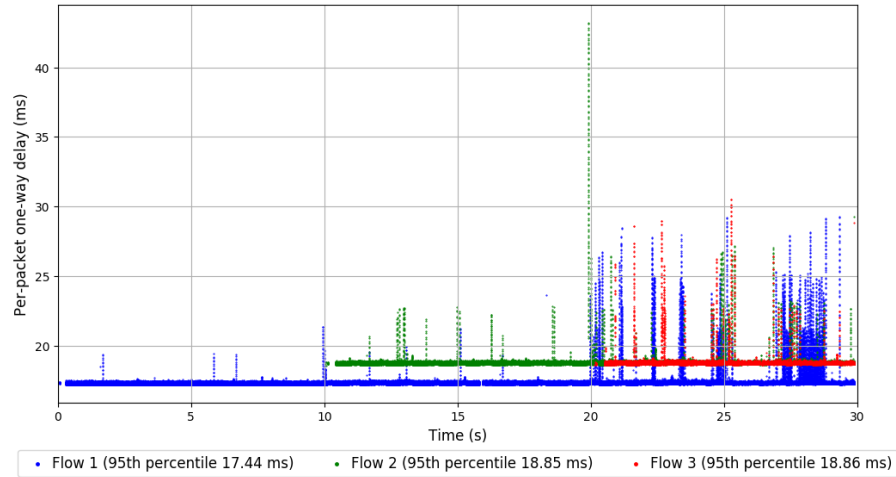
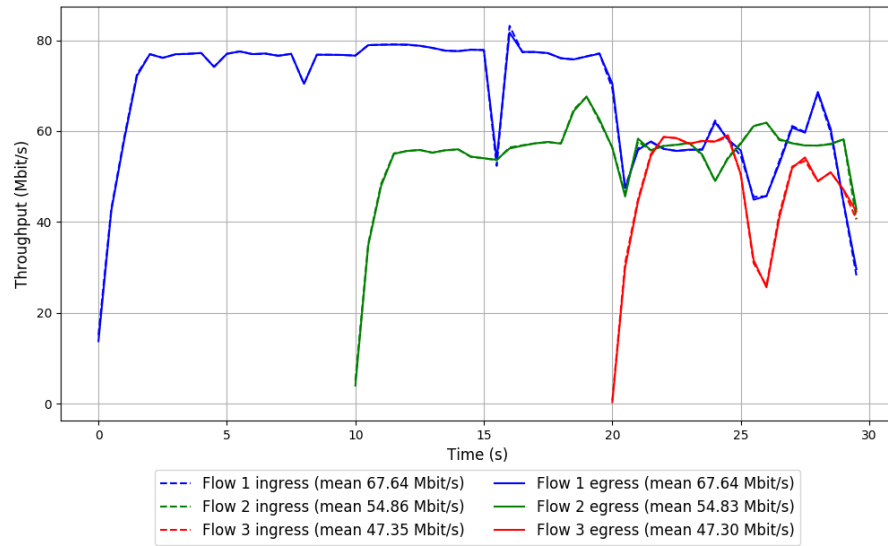


Run 3: Statistics of QUIC Cubic

Start at: 2018-01-10 04:00:47  
End at: 2018-01-10 04:01:17  
Local clock offset: 0.049 ms  
Remote clock offset: -2.299 ms

# Below is generated by plot.py at 2018-01-10 11:21:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 119.46 Mbit/s  
95th percentile per-packet one-way delay: 18.816 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 67.64 Mbit/s  
95th percentile per-packet one-way delay: 17.441 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 54.83 Mbit/s  
95th percentile per-packet one-way delay: 18.847 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 47.30 Mbit/s  
95th percentile per-packet one-way delay: 18.856 ms  
Loss rate: 0.00%

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

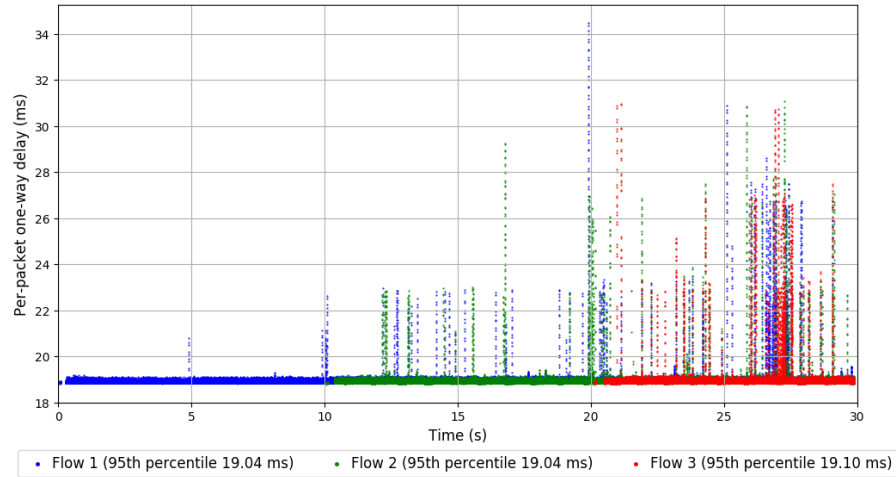
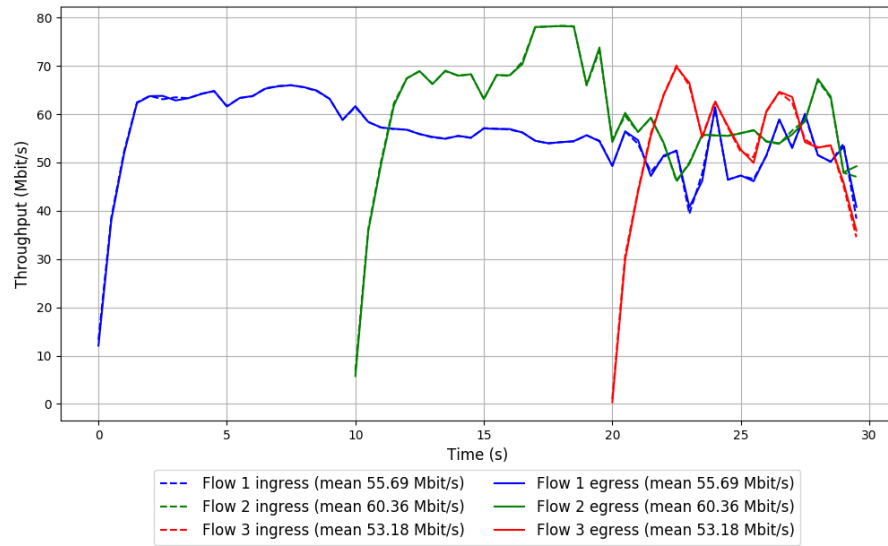


Run 4: Statistics of QUIC Cubic

Start at: 2018-01-10 04:22:40  
End at: 2018-01-10 04:23:10  
Local clock offset: 0.535 ms  
Remote clock offset: -2.246 ms

# Below is generated by plot.py at 2018-01-10 11:21:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 113.16 Mbit/s  
95th percentile per-packet one-way delay: 19.045 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 55.69 Mbit/s  
95th percentile per-packet one-way delay: 19.037 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 60.36 Mbit/s  
95th percentile per-packet one-way delay: 19.041 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 53.18 Mbit/s  
95th percentile per-packet one-way delay: 19.102 ms  
Loss rate: 0.00%

# Run 4: Report of QUIC Cubic — Data Link



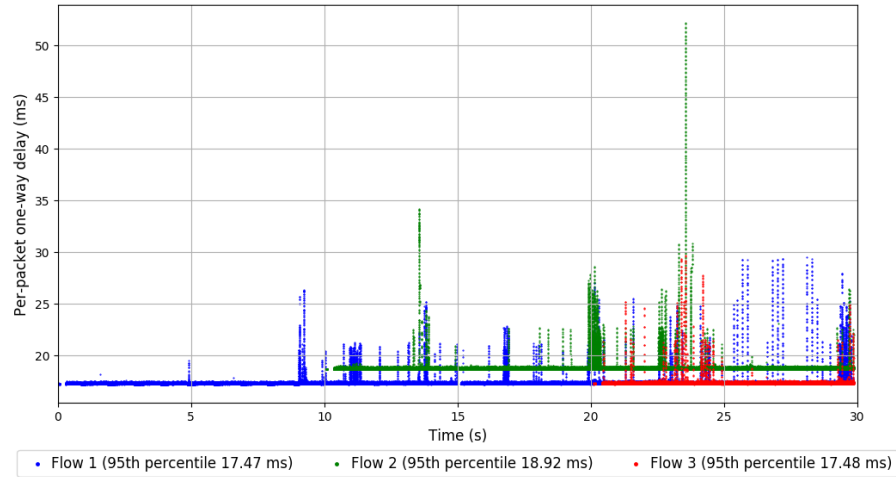
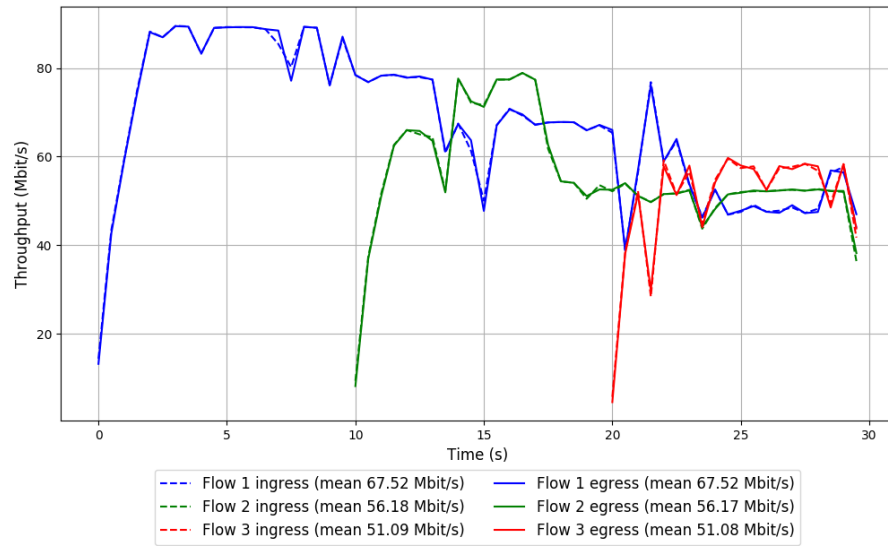
Run 5: Statistics of QUIC Cubic

Start at: 2018-01-10 04:44:25  
End at: 2018-01-10 04:44:55  
Local clock offset: 1.109 ms  
Remote clock offset: -2.278 ms

# Below is generated by plot.py at 2018-01-10 11:21:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 121.55 Mbit/s  
95th percentile per-packet one-way delay: 18.841 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 67.52 Mbit/s  
95th percentile per-packet one-way delay: 17.472 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 56.17 Mbit/s  
95th percentile per-packet one-way delay: 18.921 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 51.08 Mbit/s  
95th percentile per-packet one-way delay: 17.482 ms  
Loss rate: 0.00%



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

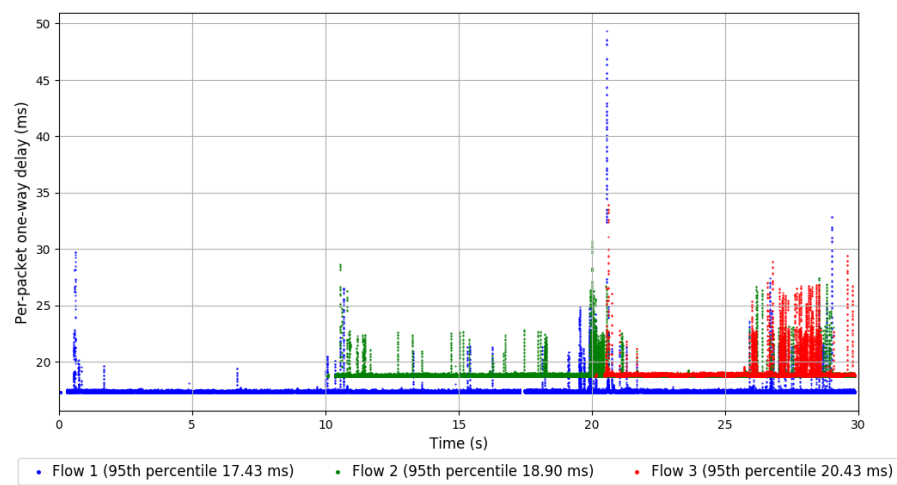
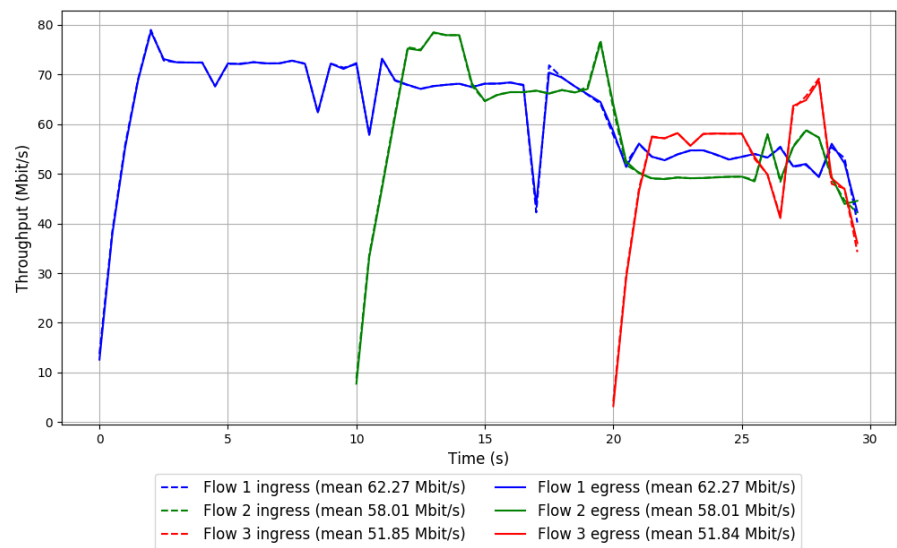


Run 6: Statistics of QUIC Cubic

Start at: 2018-01-10 05:06:08  
End at: 2018-01-10 05:06:38  
Local clock offset: 1.263 ms  
Remote clock offset: -2.431 ms

# Below is generated by plot.py at 2018-01-10 11:21:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 117.76 Mbit/s  
95th percentile per-packet one-way delay: 18.866 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 62.27 Mbit/s  
95th percentile per-packet one-way delay: 17.425 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 58.01 Mbit/s  
95th percentile per-packet one-way delay: 18.899 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 51.84 Mbit/s  
95th percentile per-packet one-way delay: 20.425 ms  
Loss rate: 0.01%

Run 6: Report of QUIC Cubic — Data Link

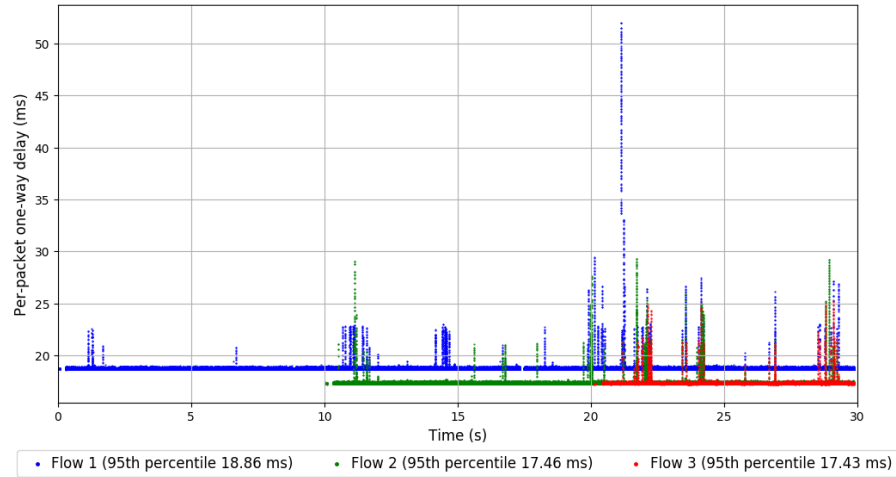
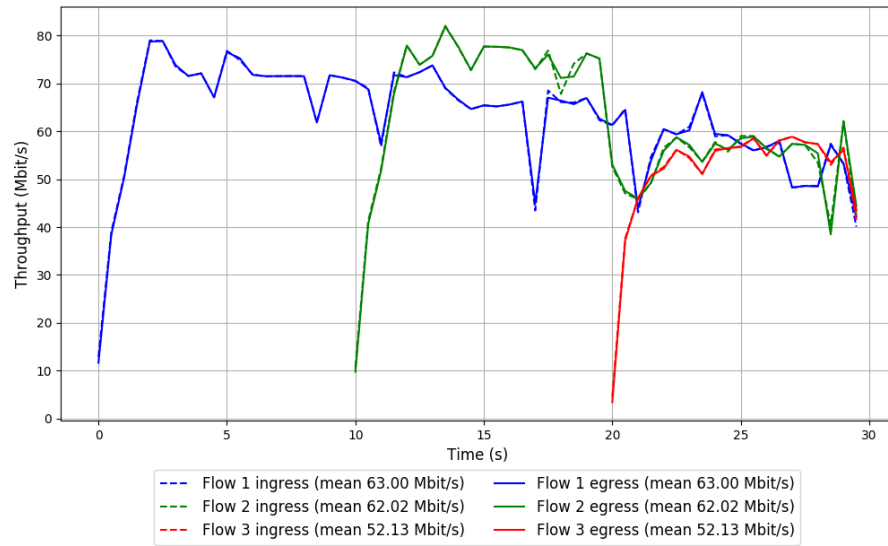


Run 7: Statistics of QUIC Cubic

Start at: 2018-01-10 05:27:58  
End at: 2018-01-10 05:28:28  
Local clock offset: 1.176 ms  
Remote clock offset: -2.088 ms

# Below is generated by plot.py at 2018-01-10 11:21:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 121.29 Mbit/s  
95th percentile per-packet one-way delay: 18.826 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 63.00 Mbit/s  
95th percentile per-packet one-way delay: 18.860 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 62.02 Mbit/s  
95th percentile per-packet one-way delay: 17.457 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 52.13 Mbit/s  
95th percentile per-packet one-way delay: 17.427 ms  
Loss rate: 0.00%

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

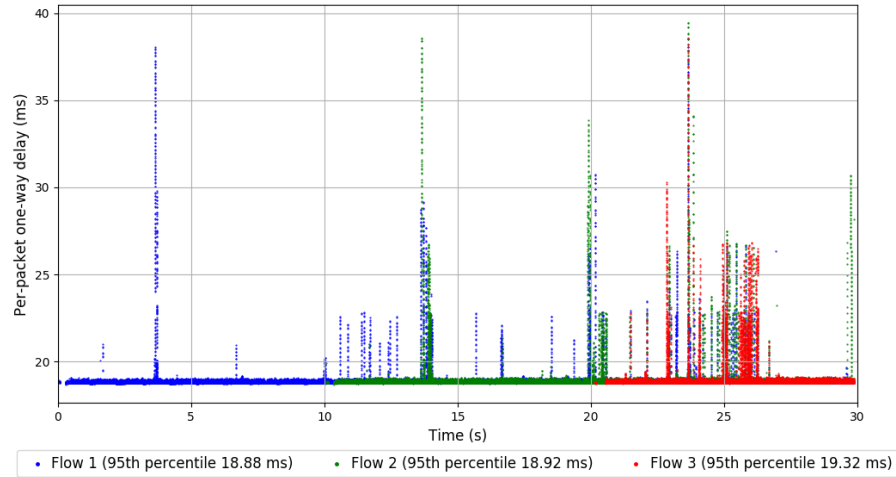
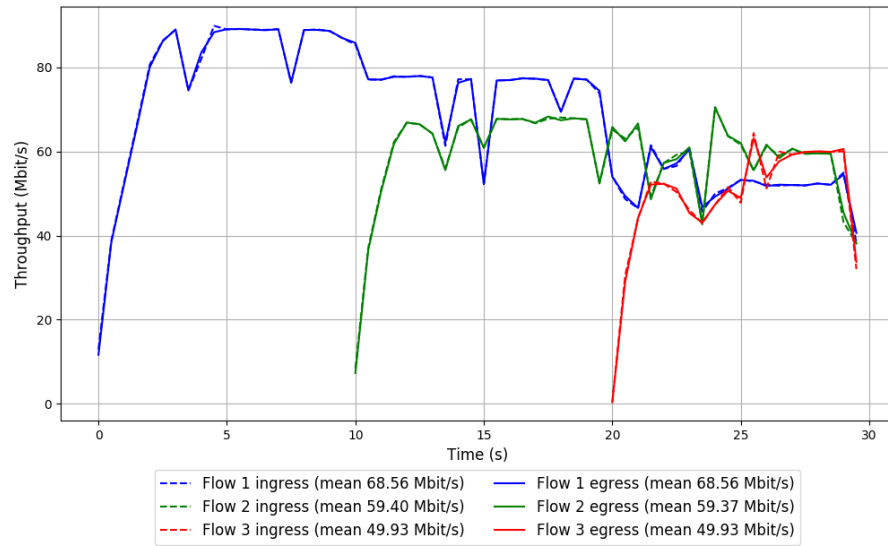


Run 8: Statistics of QUIC Cubic

Start at: 2018-01-10 05:49:55  
End at: 2018-01-10 05:50:25  
Local clock offset: 0.843 ms  
Remote clock offset: -1.974 ms

# Below is generated by plot.py at 2018-01-10 11:21:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 124.24 Mbit/s  
95th percentile per-packet one-way delay: 18.910 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 68.56 Mbit/s  
95th percentile per-packet one-way delay: 18.883 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 59.37 Mbit/s  
95th percentile per-packet one-way delay: 18.922 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 49.93 Mbit/s  
95th percentile per-packet one-way delay: 19.316 ms  
Loss rate: 0.00%

# Run 8: Report of QUIC Cubic — Data Link



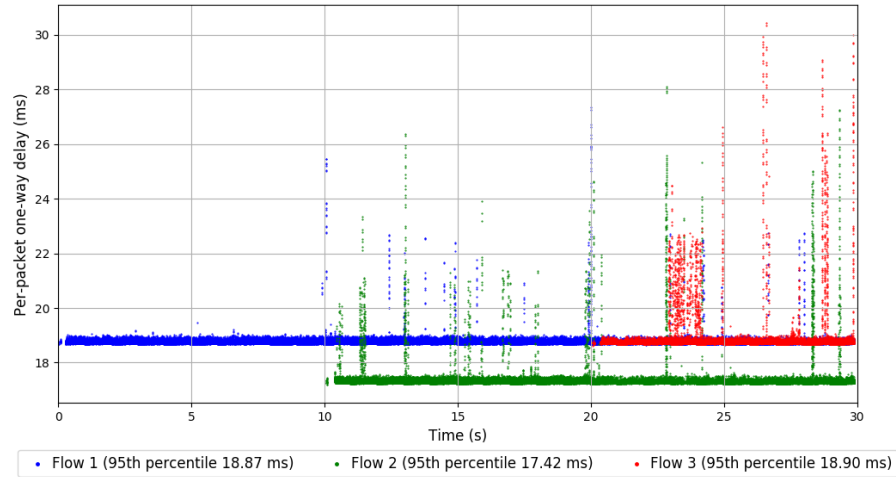
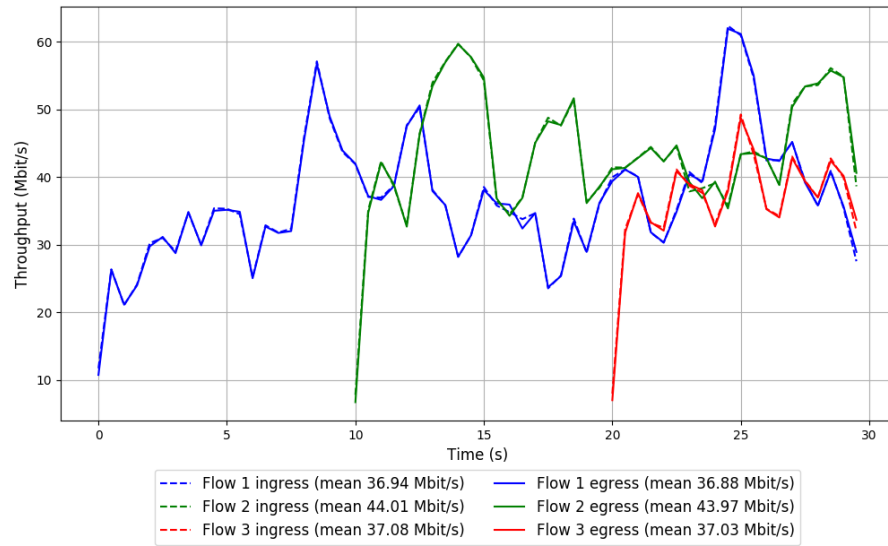
Run 9: Statistics of QUIC Cubic

Start at: 2018-01-10 06:11:46  
End at: 2018-01-10 06:12:16  
Local clock offset: 0.34 ms  
Remote clock offset: -2.366 ms

# Below is generated by plot.py at 2018-01-10 11:21:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.29 Mbit/s  
95th percentile per-packet one-way delay: 18.847 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 36.88 Mbit/s  
95th percentile per-packet one-way delay: 18.867 ms  
Loss rate: 0.15%  
-- Flow 2:  
Average throughput: 43.97 Mbit/s  
95th percentile per-packet one-way delay: 17.423 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 37.03 Mbit/s  
95th percentile per-packet one-way delay: 18.901 ms  
Loss rate: 0.12%



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

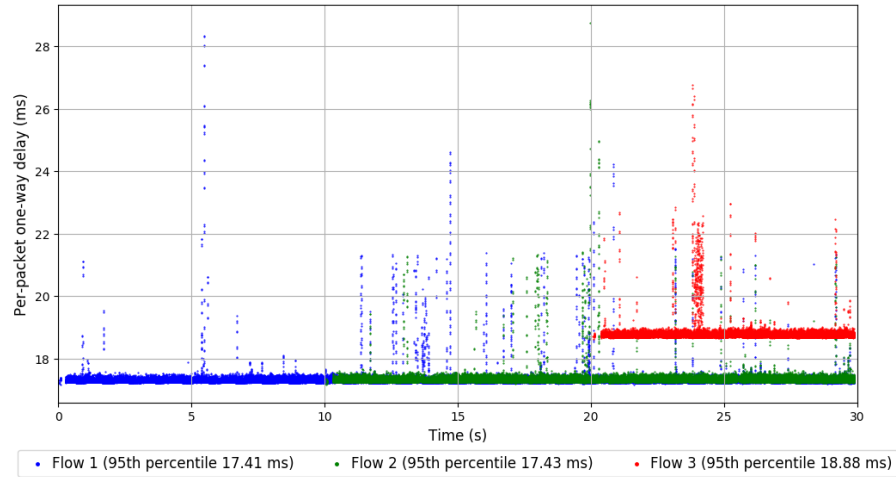
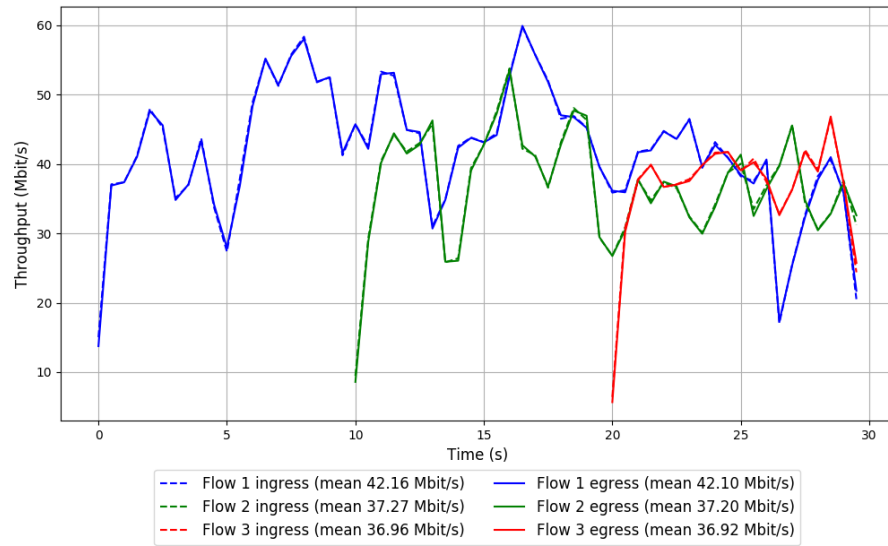


Run 10: Statistics of QUIC Cubic

Start at: 2018-01-10 06:32:38  
End at: 2018-01-10 06:33:08  
Local clock offset: 0.083 ms  
Remote clock offset: -2.154 ms

# Below is generated by plot.py at 2018-01-10 11:21:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.97 Mbit/s  
95th percentile per-packet one-way delay: 18.773 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 42.10 Mbit/s  
95th percentile per-packet one-way delay: 17.405 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 37.20 Mbit/s  
95th percentile per-packet one-way delay: 17.434 ms  
Loss rate: 0.16%  
-- Flow 3:  
Average throughput: 36.92 Mbit/s  
95th percentile per-packet one-way delay: 18.878 ms  
Loss rate: 0.13%

# Run 10: Report of QUIC Cubic — Data Link

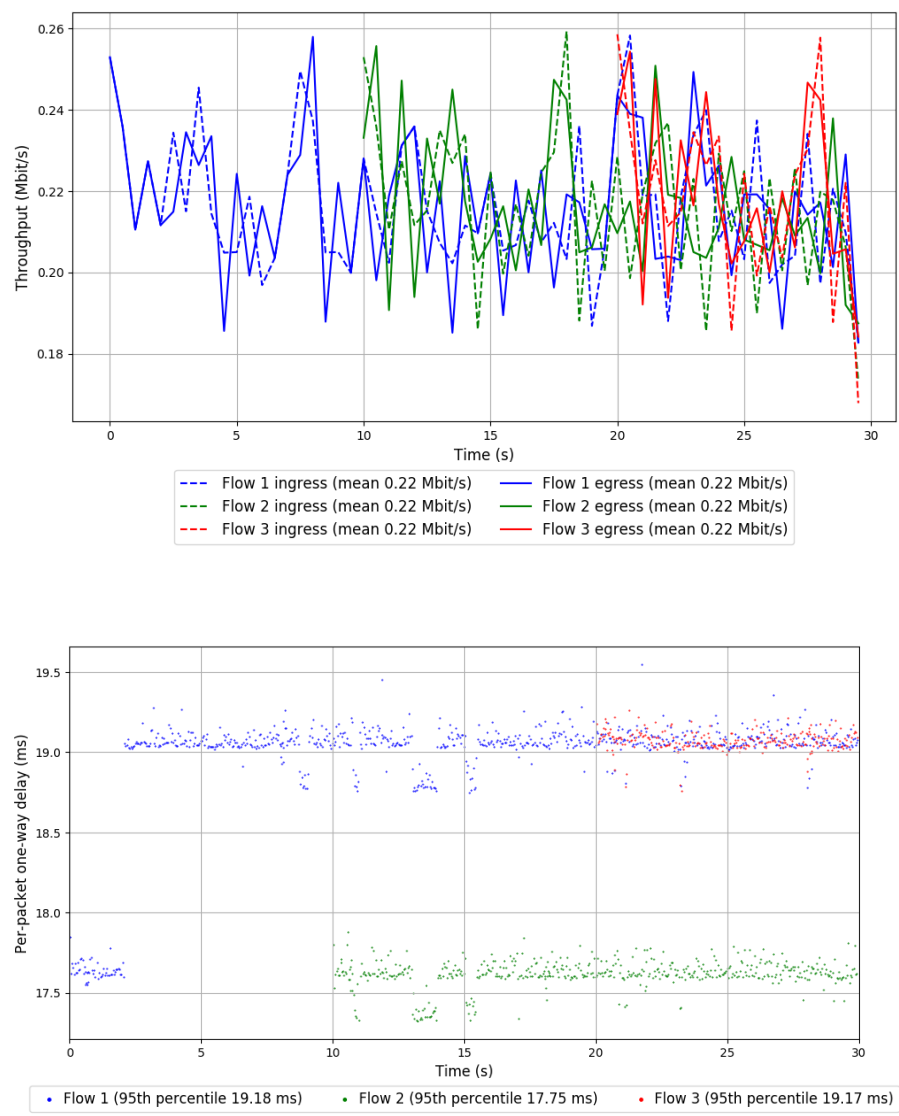


```
Run 1: Statistics of SReAM

Start at: 2018-01-10 03:19:53
End at: 2018-01-10 03:20:23
Local clock offset: -0.84 ms
Remote clock offset: -2.603 ms

# Below is generated by plot.py at 2018-01-10 11:21:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 19.158 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.176 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.750 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.173 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

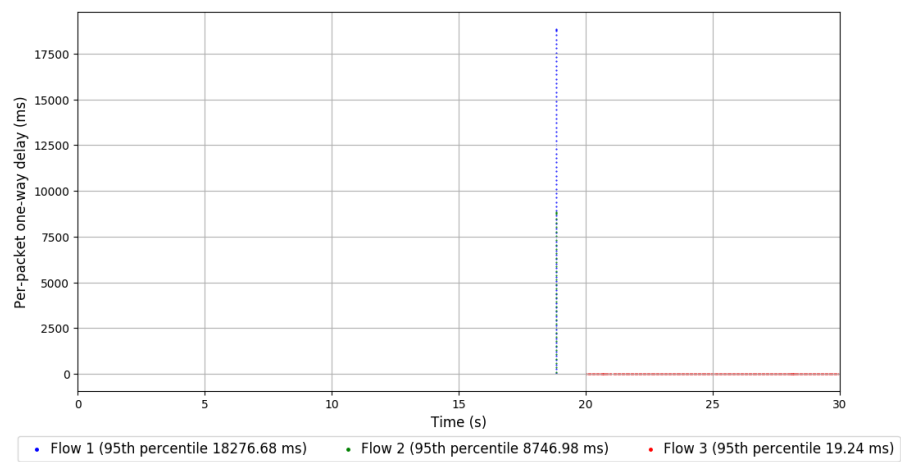
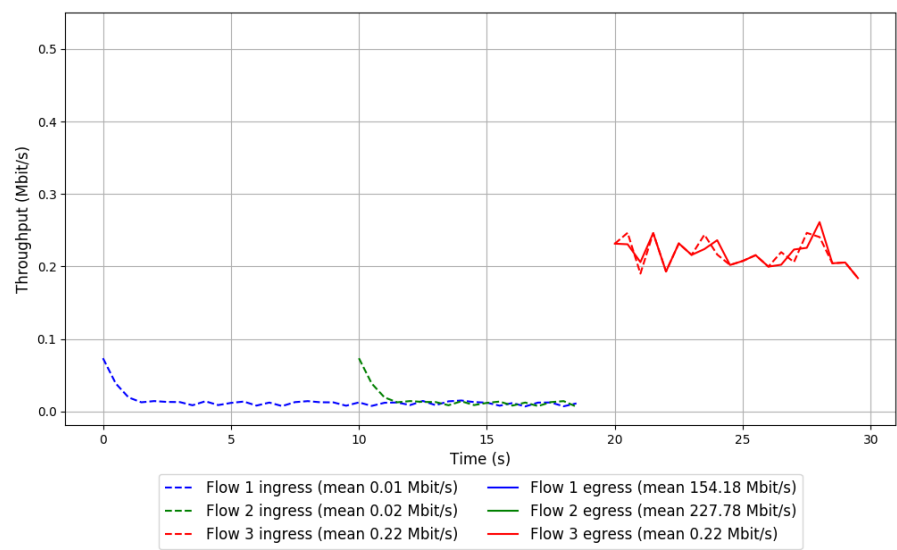
Start at: 2018-01-10 03:41:42

End at: 2018-01-10 03:42:12

Local clock offset: -0.536 ms

Remote clock offset: -2.499 ms

Run 2: Report of SReAM — Data Link



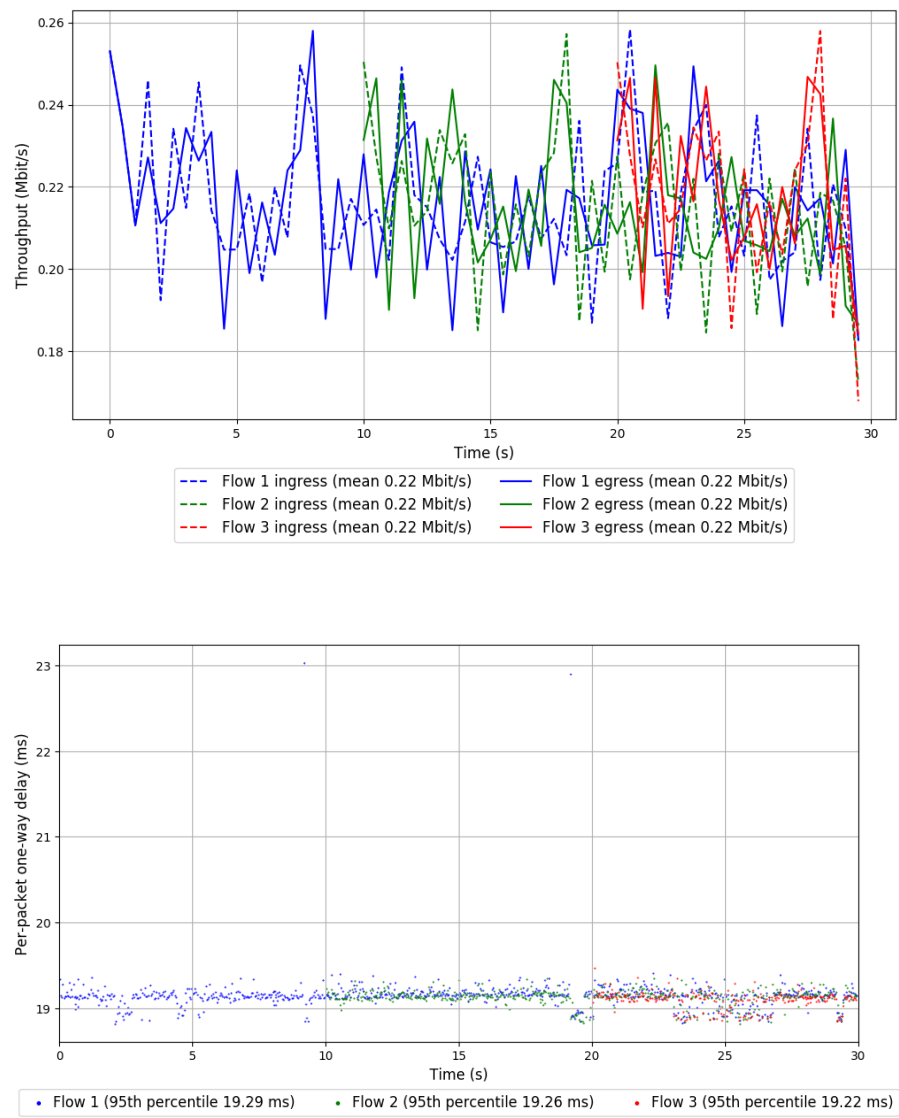
Run 3: Statistics of SReAM

Start at: 2018-01-10 04:03:40  
End at: 2018-01-10 04:04:10  
Local clock offset: 0.003 ms  
Remote clock offset: -2.401 ms

# Below is generated by plot.py at 2018-01-10 11:21:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 19.277 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.293 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.258 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.217 ms  
Loss rate: 0.00%



Run 3: Report of SReAM — Data Link

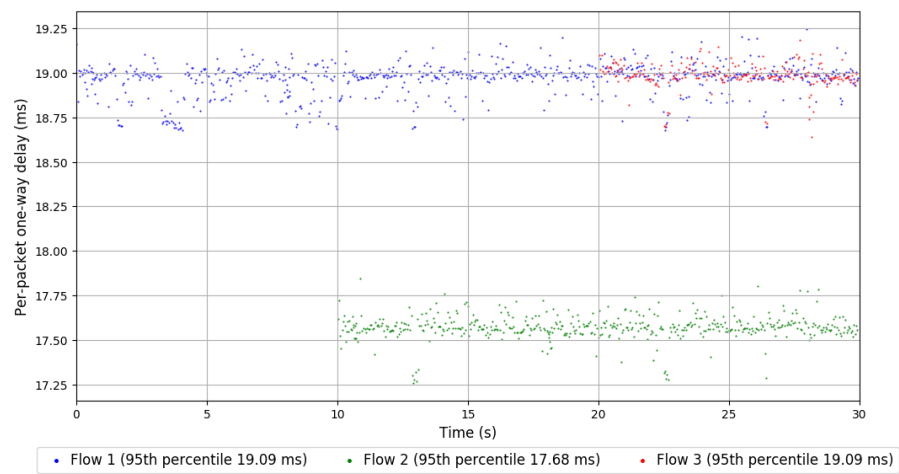
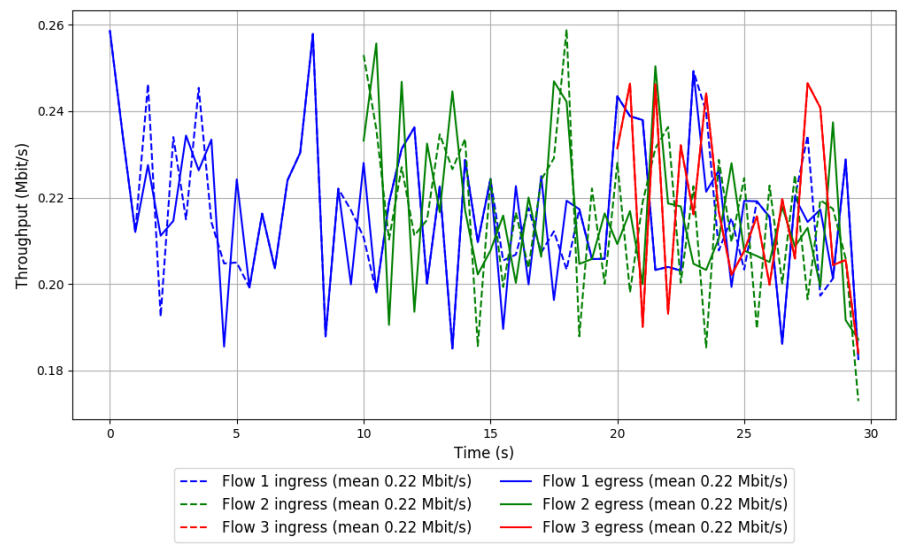


Run 4: Statistics of SReAM

Start at: 2018-01-10 04:25:36  
End at: 2018-01-10 04:26:06  
Local clock offset: 0.7 ms  
Remote clock offset: -2.262 ms

# Below is generated by plot.py at 2018-01-10 11:21:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 19.070 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.085 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 17.677 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.086 ms  
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

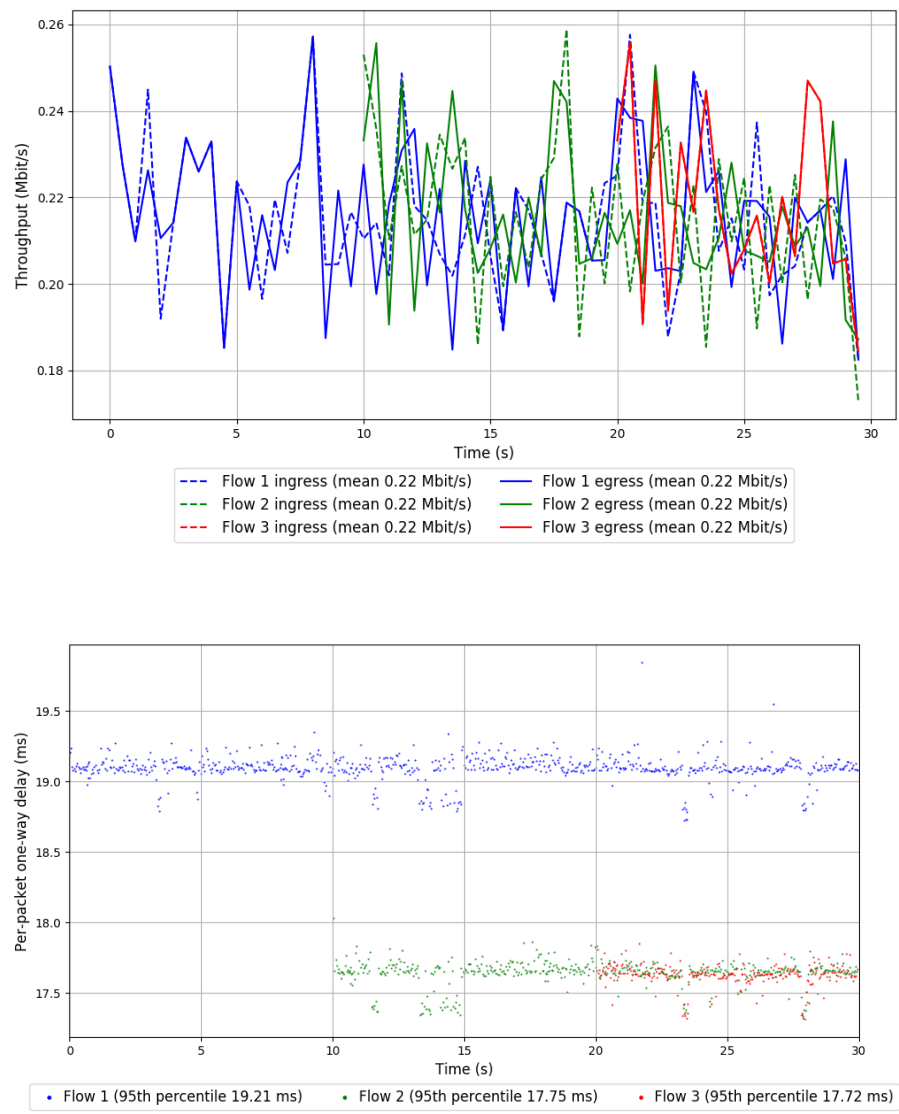


Run 5: Statistics of SReAM

Start at: 2018-01-10 04:47:15  
End at: 2018-01-10 04:47:45  
Local clock offset: 1.127 ms  
Remote clock offset: -2.296 ms

# Below is generated by plot.py at 2018-01-10 11:21:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 19.175 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.215 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 17.747 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 17.722 ms  
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

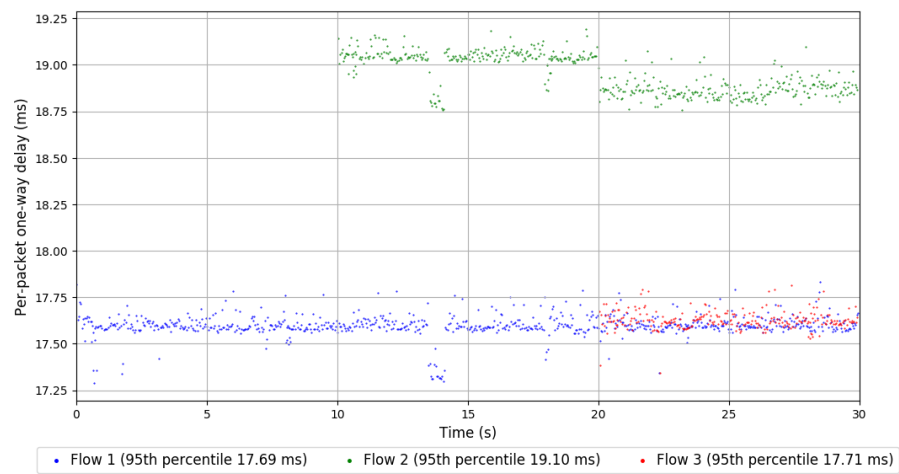
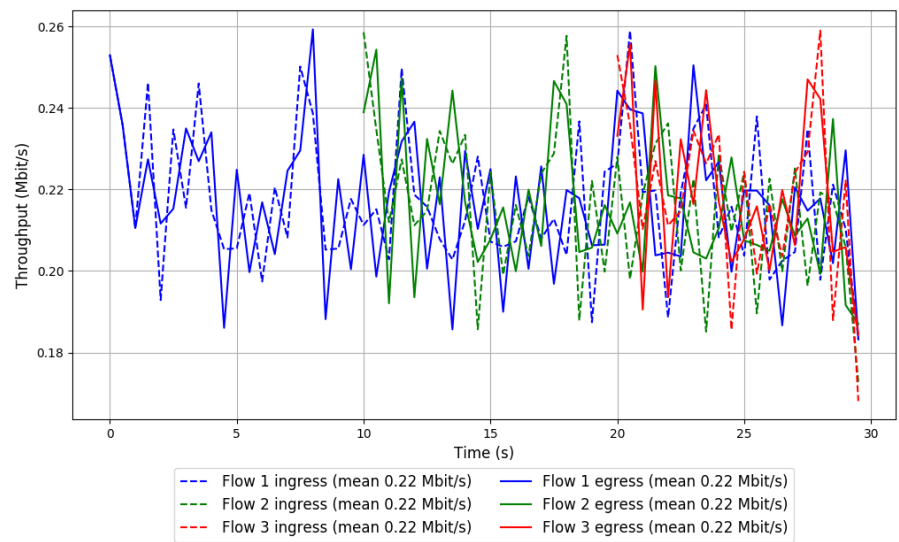


Run 6: Statistics of SReAM

Start at: 2018-01-10 05:09:00  
End at: 2018-01-10 05:09:30  
Local clock offset: 1.26 ms  
Remote clock offset: -2.429 ms

# Below is generated by plot.py at 2018-01-10 11:21:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 19.061 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 17.686 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.100 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 17.714 ms  
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



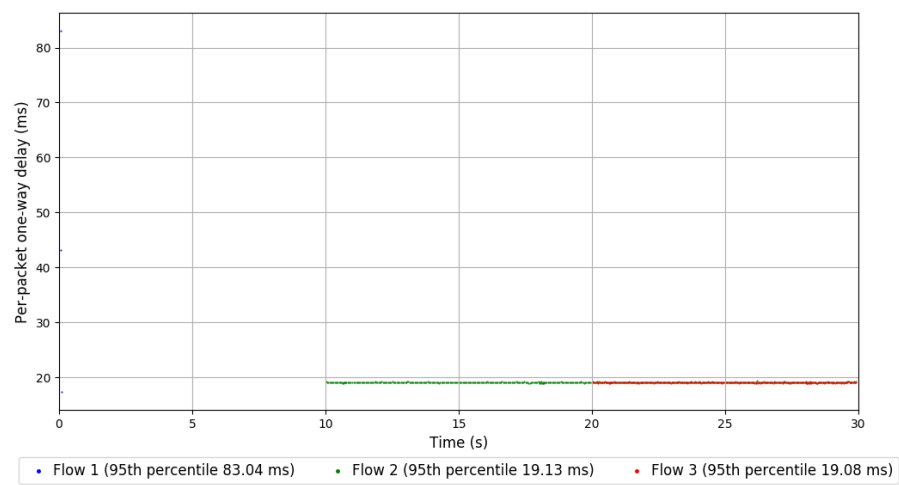
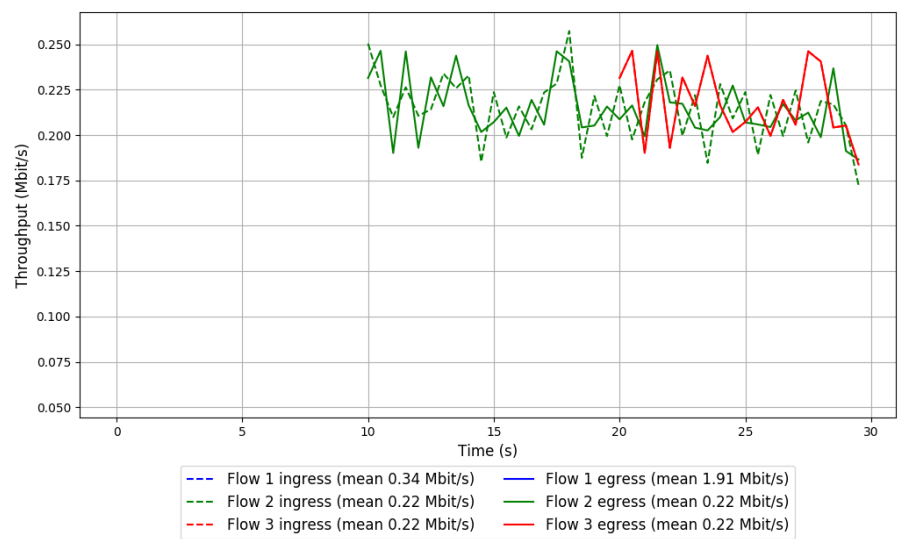
Run 7: Statistics of SReAM

Start at: 2018-01-10 05:30:50  
End at: 2018-01-10 05:31:20  
Local clock offset: 1.068 ms  
Remote clock offset: -2.129 ms

# Below is generated by plot.py at 2018-01-10 11:21:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.121 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.91 Mbit/s  
95th percentile per-packet one-way delay: 83.041 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.131 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.083 ms  
Loss rate: 0.00%



Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

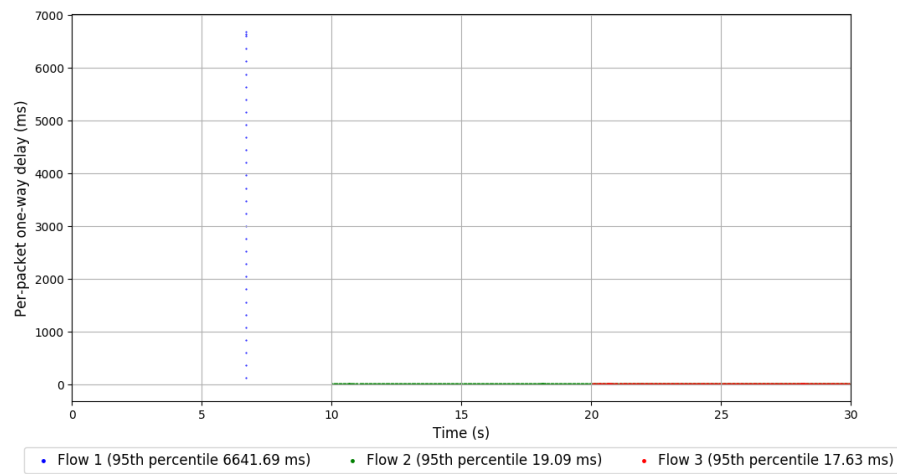
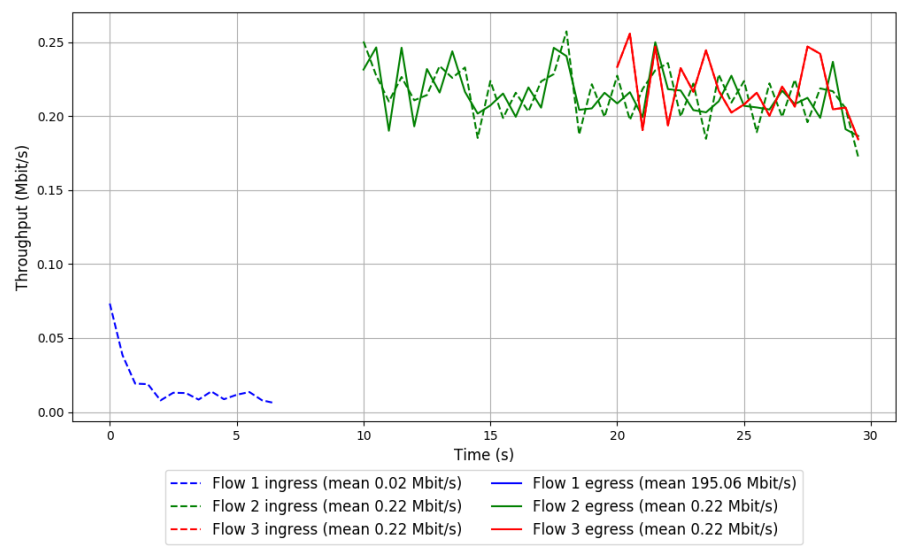
Start at: 2018-01-10 05:52:43

End at: 2018-01-10 05:53:13

Local clock offset: 0.87 ms

Remote clock offset: -2.167 ms

Run 8: Report of SReAM — Data Link

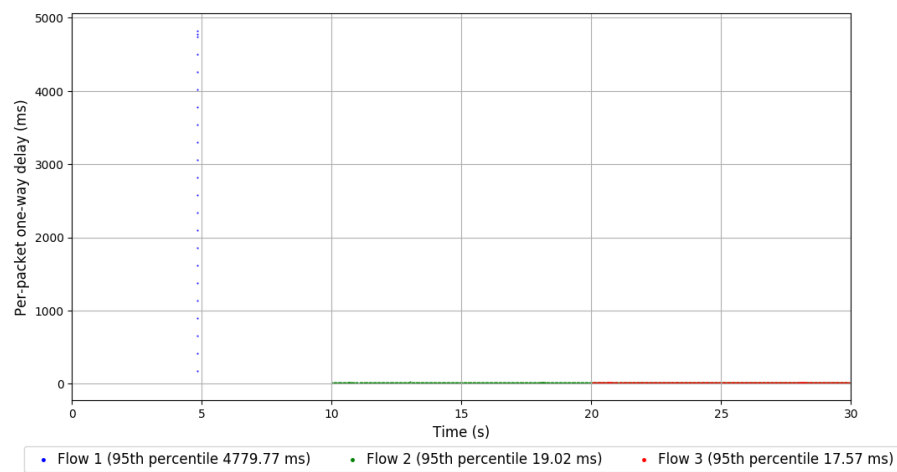
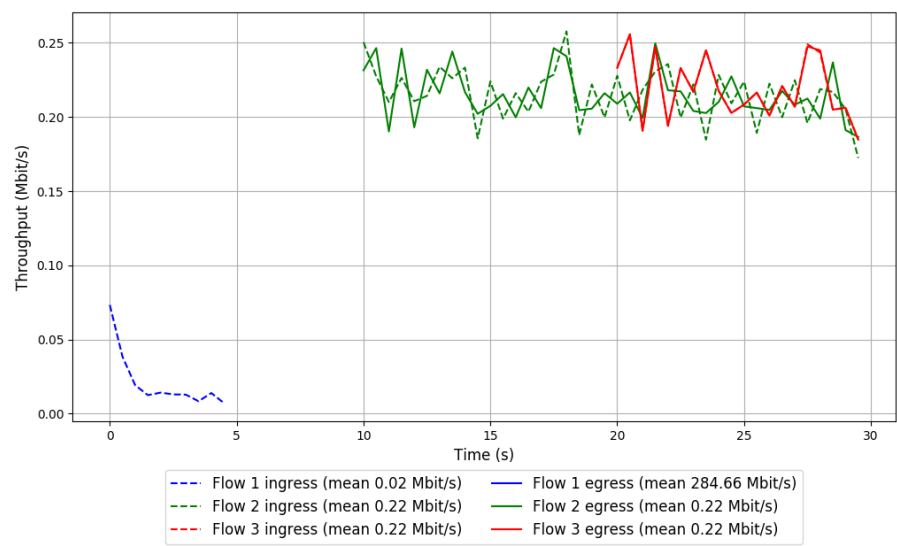


Run 9: Statistics of SReAM

Start at: 2018-01-10 06:14:39  
End at: 2018-01-10 06:15:09  
Local clock offset: 0.328 ms  
Remote clock offset: -2.382 ms

# Below is generated by plot.py at 2018-01-10 11:21:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.26 Mbit/s  
95th percentile per-packet one-way delay: 19.042 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 284.66 Mbit/s  
95th percentile per-packet one-way delay: 4779.766 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.015 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 17.566 ms  
Loss rate: 0.00%

Run 9: Report of SCSReAM — Data Link



Run 10: Statistics of SReAM

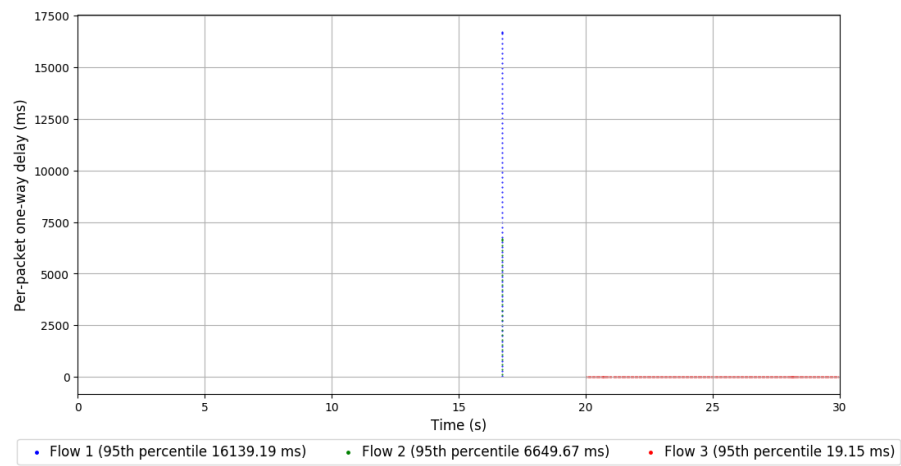
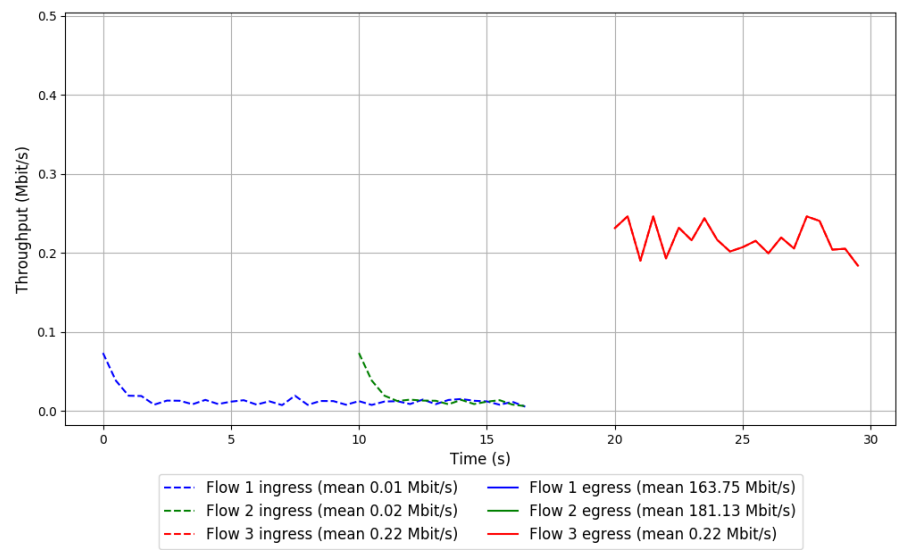
Start at: 2018-01-10 06:35:23

End at: 2018-01-10 06:35:53

Local clock offset: 0.043 ms

Remote clock offset: -2.088 ms

Run 10: Report of SReAM — Data Link



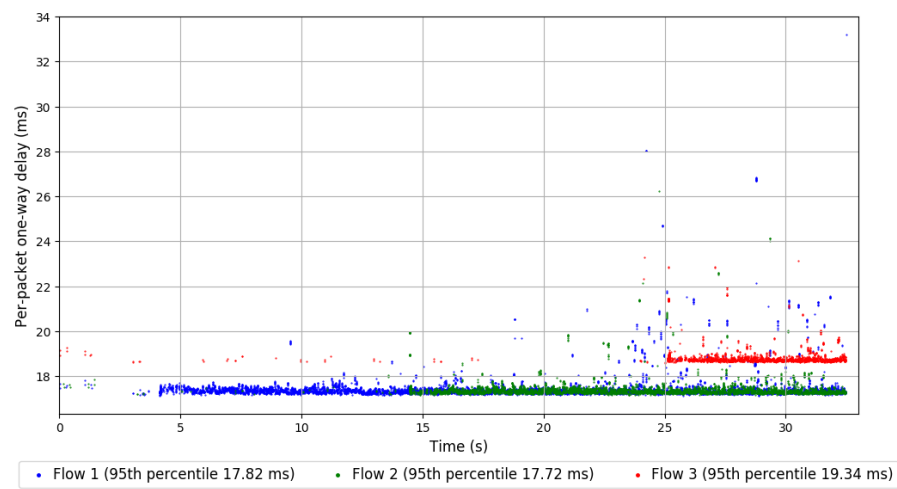
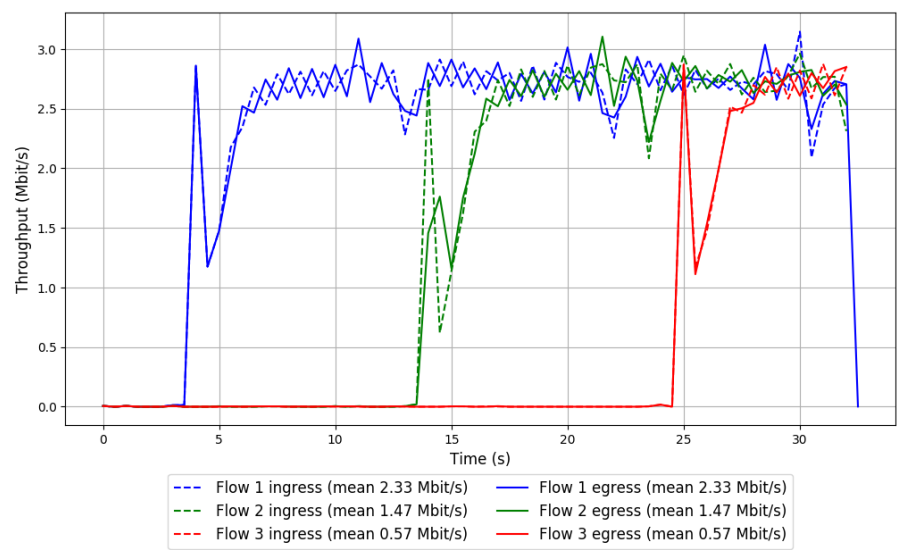
Run 1: Statistics of WebRTC media

Start at: 2018-01-10 03:23:48  
End at: 2018-01-10 03:24:18  
Local clock offset: -0.692 ms  
Remote clock offset: -2.557 ms

# Below is generated by plot.py at 2018-01-10 11:21:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.36 Mbit/s  
95th percentile per-packet one-way delay: 18.828 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.33 Mbit/s  
95th percentile per-packet one-way delay: 17.823 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.47 Mbit/s  
95th percentile per-packet one-way delay: 17.722 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.57 Mbit/s  
95th percentile per-packet one-way delay: 19.342 ms  
Loss rate: 0.00%



Run 1: Report of WebRTC media — Data Link

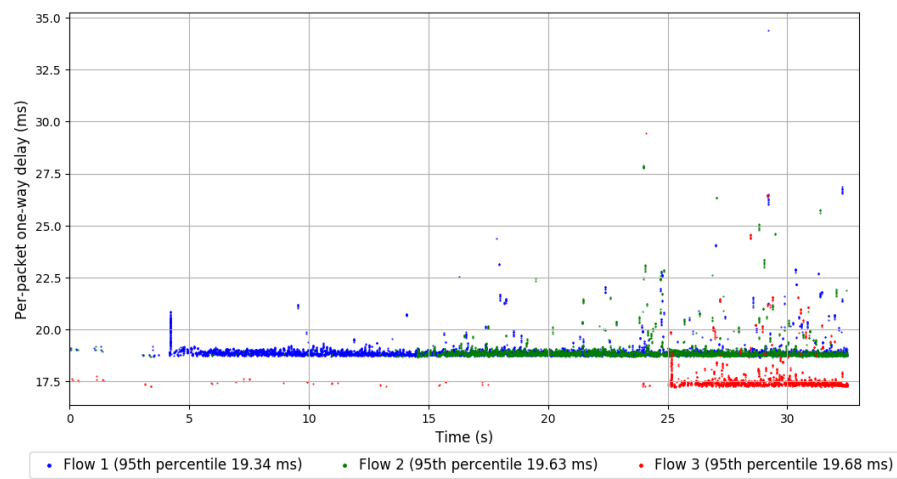
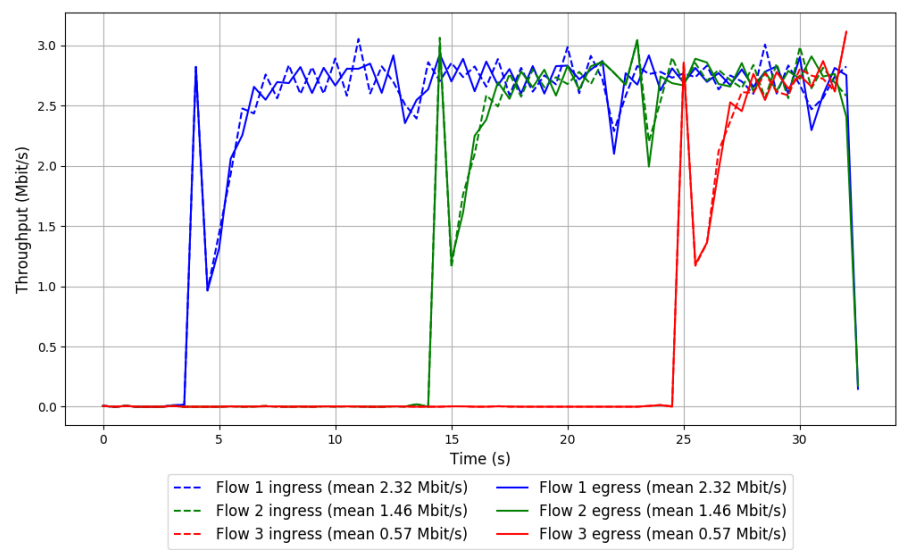


Run 2: Statistics of WebRTC media

Start at: 2018-01-10 03:45:39  
End at: 2018-01-10 03:46:09  
Local clock offset: -0.409 ms  
Remote clock offset: -2.461 ms

# Below is generated by plot.py at 2018-01-10 11:21:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.35 Mbit/s  
95th percentile per-packet one-way delay: 19.441 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.32 Mbit/s  
95th percentile per-packet one-way delay: 19.336 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.46 Mbit/s  
95th percentile per-packet one-way delay: 19.627 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.57 Mbit/s  
95th percentile per-packet one-way delay: 19.683 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

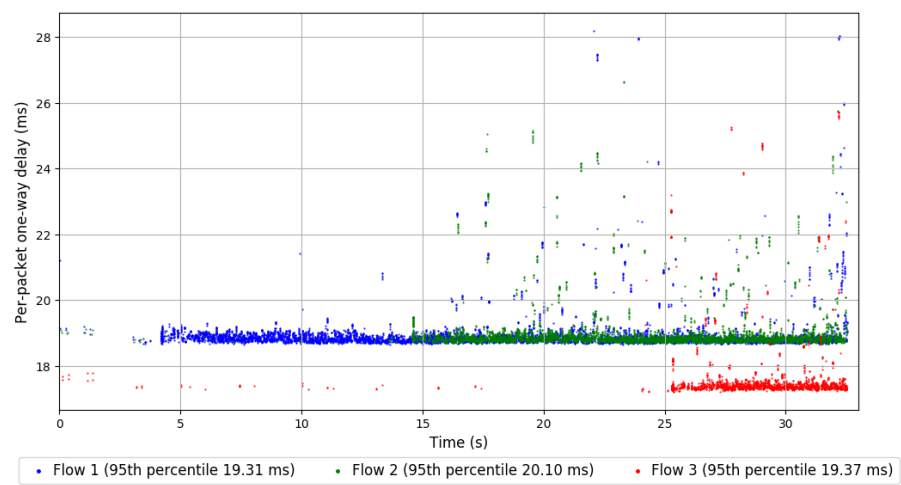
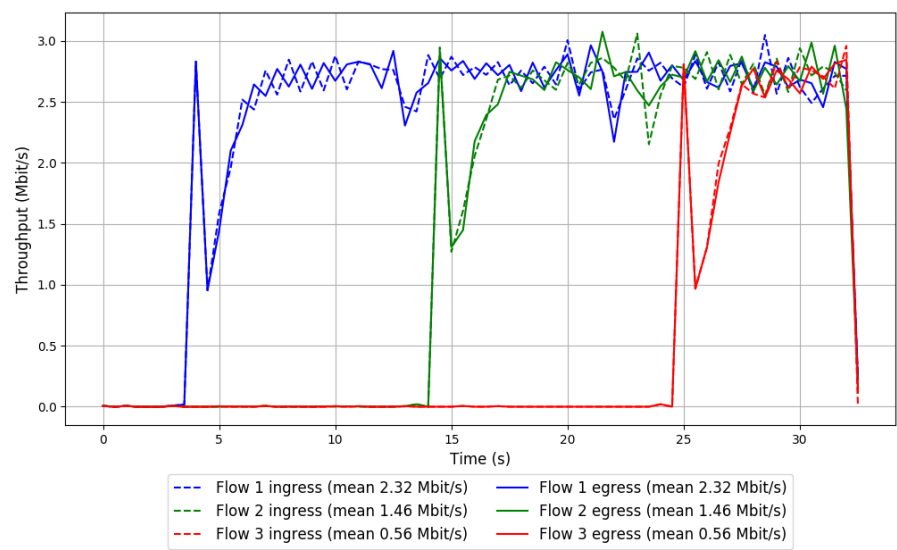


Run 3: Statistics of WebRTC media

Start at: 2018-01-10 04:07:34  
End at: 2018-01-10 04:08:04  
Local clock offset: 0.229 ms  
Remote clock offset: -2.553 ms

# Below is generated by plot.py at 2018-01-10 11:21:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.34 Mbit/s  
95th percentile per-packet one-way delay: 19.546 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.32 Mbit/s  
95th percentile per-packet one-way delay: 19.314 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.46 Mbit/s  
95th percentile per-packet one-way delay: 20.096 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.56 Mbit/s  
95th percentile per-packet one-way delay: 19.373 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

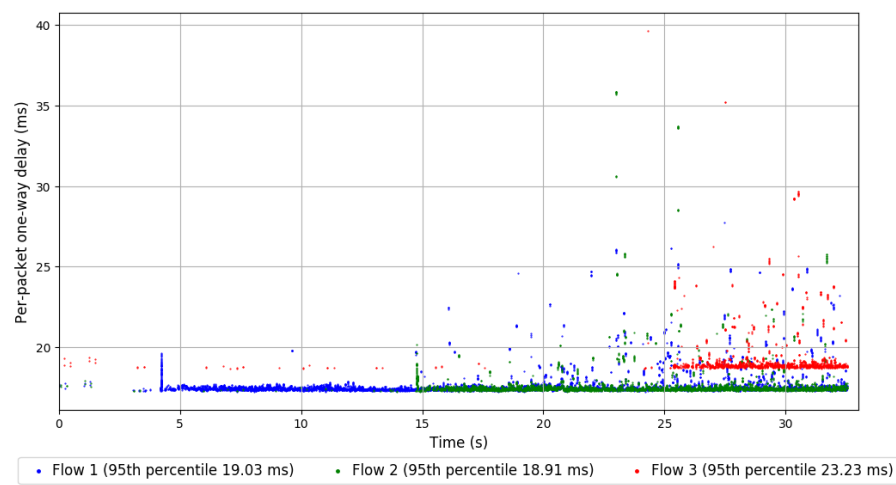
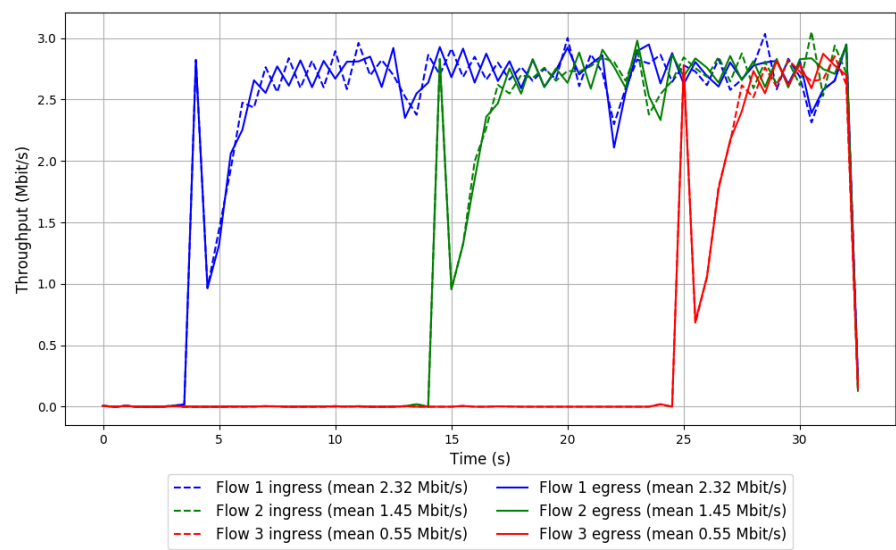


Run 4: Statistics of WebRTC media

Start at: 2018-01-10 04:29:32  
End at: 2018-01-10 04:30:02  
Local clock offset: 0.742 ms  
Remote clock offset: -2.231 ms

# Below is generated by plot.py at 2018-01-10 11:21:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.31 Mbit/s  
95th percentile per-packet one-way delay: 19.423 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.32 Mbit/s  
95th percentile per-packet one-way delay: 19.033 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.45 Mbit/s  
95th percentile per-packet one-way delay: 18.914 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.55 Mbit/s  
95th percentile per-packet one-way delay: 23.228 ms  
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



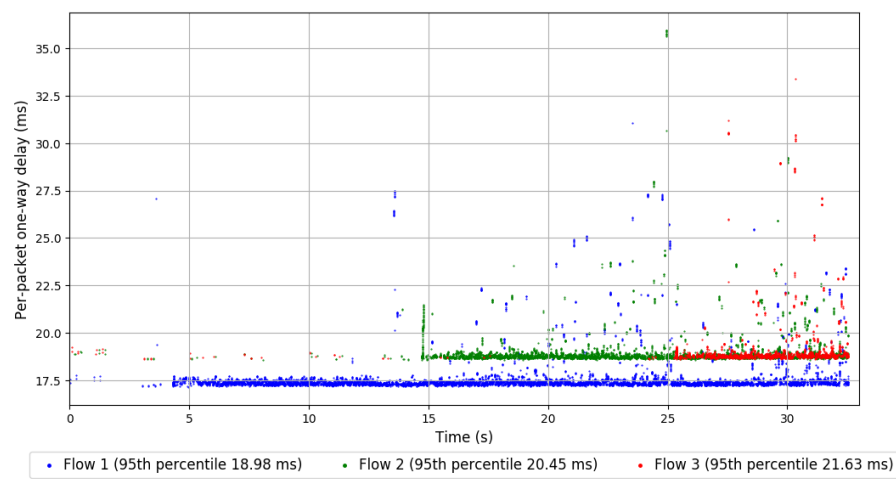
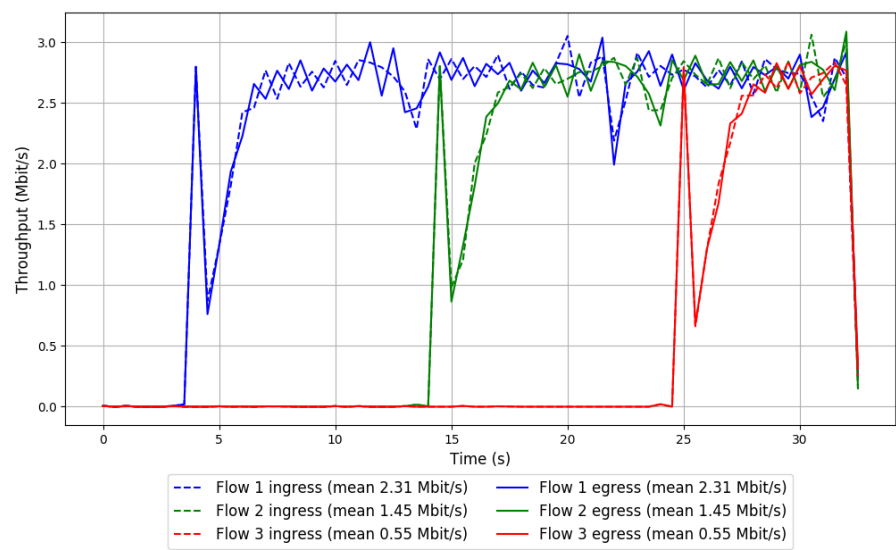
Run 5: Statistics of WebRTC media

Start at: 2018-01-10 04:51:13  
End at: 2018-01-10 04:51:43  
Local clock offset: 1.15 ms  
Remote clock offset: -2.478 ms

# Below is generated by plot.py at 2018-01-10 11:21:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.31 Mbit/s  
95th percentile per-packet one-way delay: 20.021 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.31 Mbit/s  
95th percentile per-packet one-way delay: 18.977 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.45 Mbit/s  
95th percentile per-packet one-way delay: 20.447 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.55 Mbit/s  
95th percentile per-packet one-way delay: 21.631 ms  
Loss rate: 0.00%



Run 5: Report of WebRTC media — Data Link

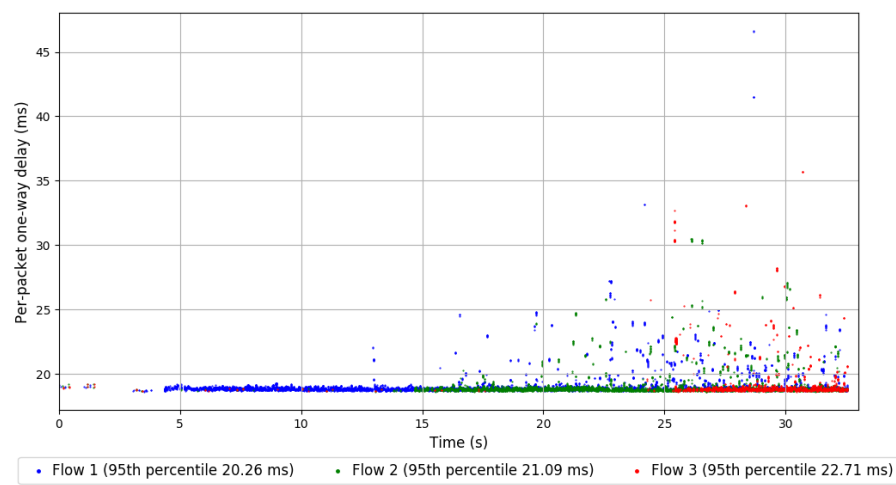
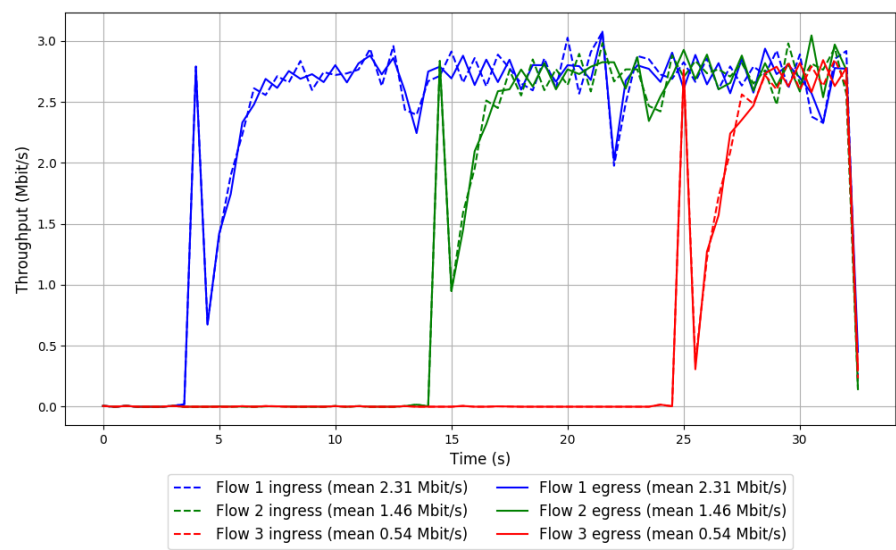


Run 6: Statistics of WebRTC media

Start at: 2018-01-10 05:12:54  
End at: 2018-01-10 05:13:24  
Local clock offset: 1.302 ms  
Remote clock offset: -2.426 ms

# Below is generated by plot.py at 2018-01-10 11:21:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.30 Mbit/s  
95th percentile per-packet one-way delay: 20.892 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.31 Mbit/s  
95th percentile per-packet one-way delay: 20.256 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.46 Mbit/s  
95th percentile per-packet one-way delay: 21.085 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.54 Mbit/s  
95th percentile per-packet one-way delay: 22.712 ms  
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

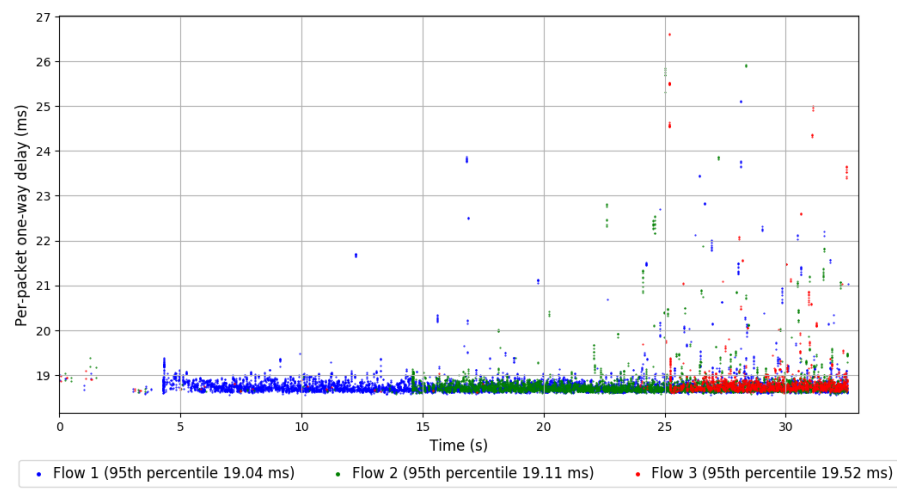
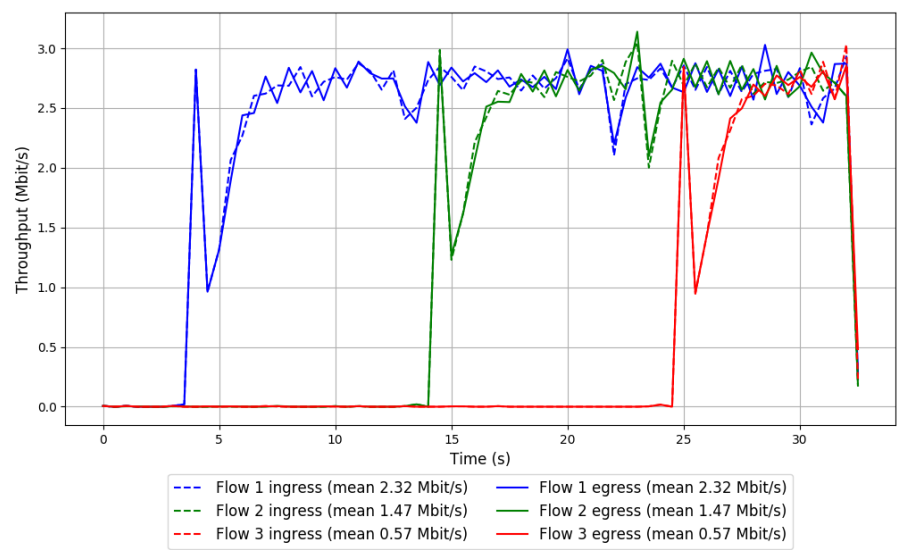


Run 7: Statistics of WebRTC media

Start at: 2018-01-10 05:34:44  
End at: 2018-01-10 05:35:14  
Local clock offset: 1.043 ms  
Remote clock offset: -2.073 ms

# Below is generated by plot.py at 2018-01-10 11:21:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.34 Mbit/s  
95th percentile per-packet one-way delay: 19.097 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.32 Mbit/s  
95th percentile per-packet one-way delay: 19.035 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.47 Mbit/s  
95th percentile per-packet one-way delay: 19.113 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.57 Mbit/s  
95th percentile per-packet one-way delay: 19.525 ms  
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

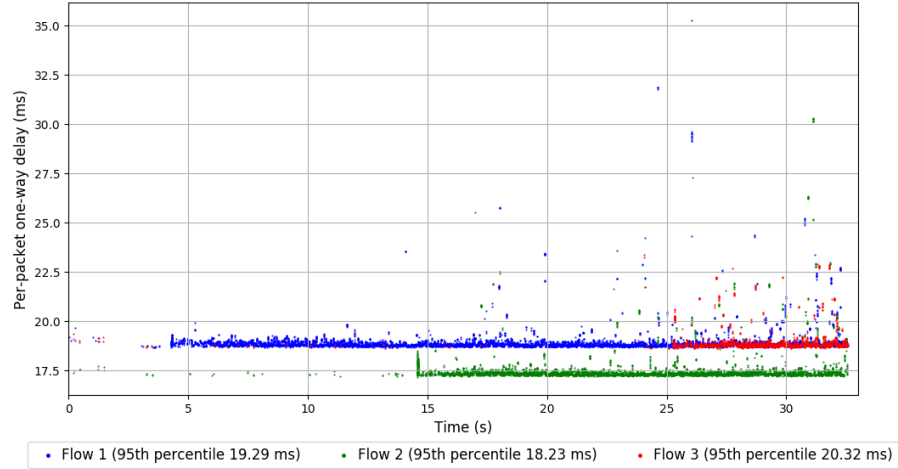
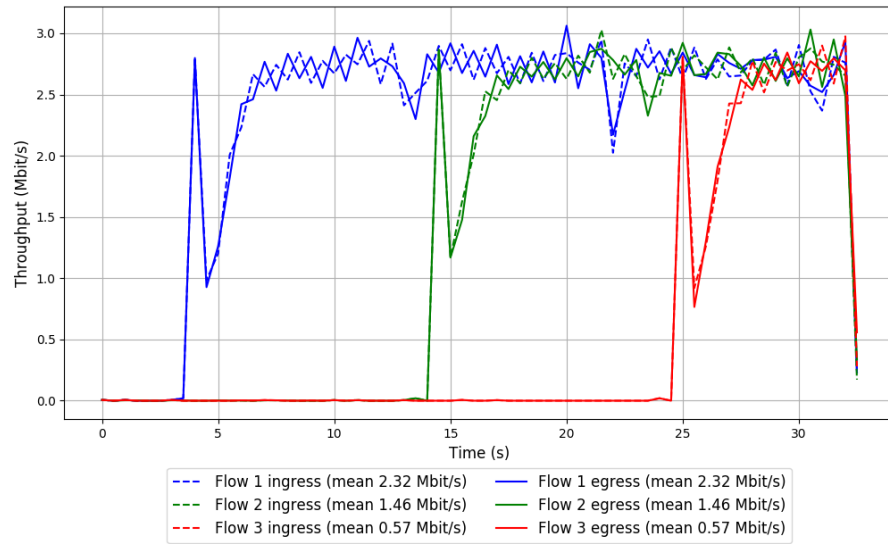


Run 8: Statistics of WebRTC media

Start at: 2018-01-10 05:56:38  
End at: 2018-01-10 05:57:08  
Local clock offset: 0.709 ms  
Remote clock offset: -2.103 ms

```
# Below is generated by plot.py at 2018-01-10 11:21:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.33 Mbit/s
95th percentile per-packet one-way delay: 19.265 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 19.287 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 18.234 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 20.316 ms
Loss rate: 0.00%
```

## Run 8: Report of WebRTC media — Data Link



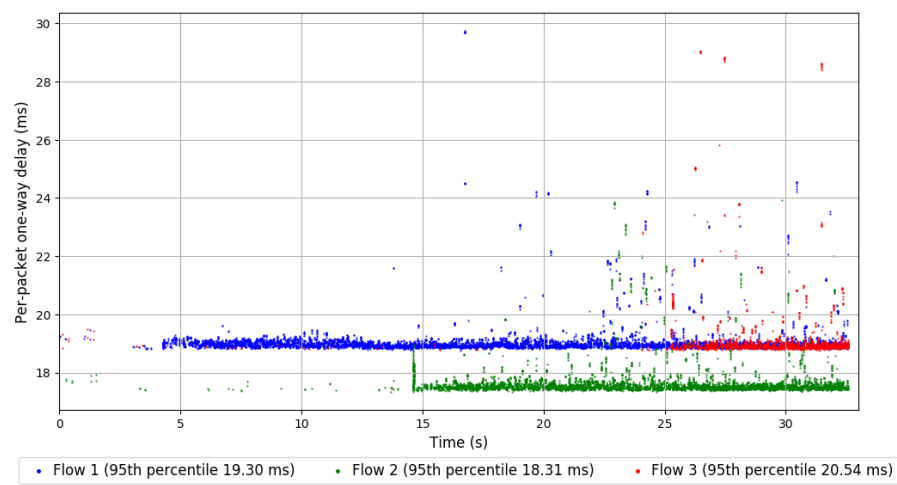
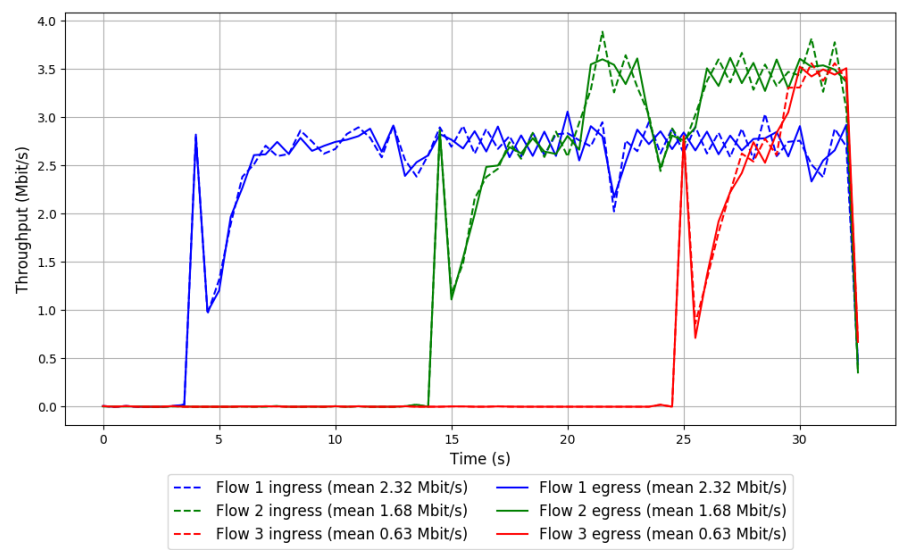
Run 9: Statistics of WebRTC media

Start at: 2018-01-10 06:18:18  
End at: 2018-01-10 06:18:48  
Local clock offset: 0.145 ms  
Remote clock offset: -2.245 ms

# Below is generated by plot.py at 2018-01-10 11:21:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.61 Mbit/s  
95th percentile per-packet one-way delay: 19.319 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 2.32 Mbit/s  
95th percentile per-packet one-way delay: 19.305 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 1.68 Mbit/s  
95th percentile per-packet one-way delay: 18.312 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 0.63 Mbit/s  
95th percentile per-packet one-way delay: 20.535 ms  
Loss rate: 0.19%



Run 9: Report of WebRTC media — Data Link

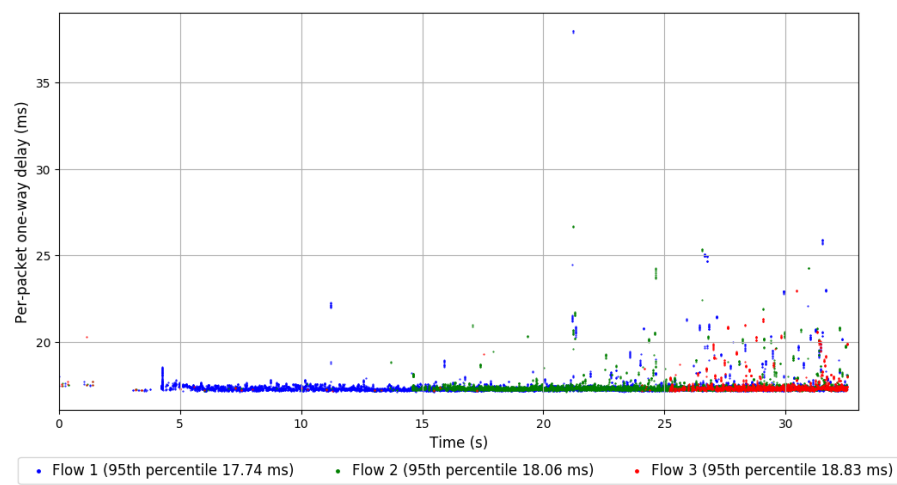
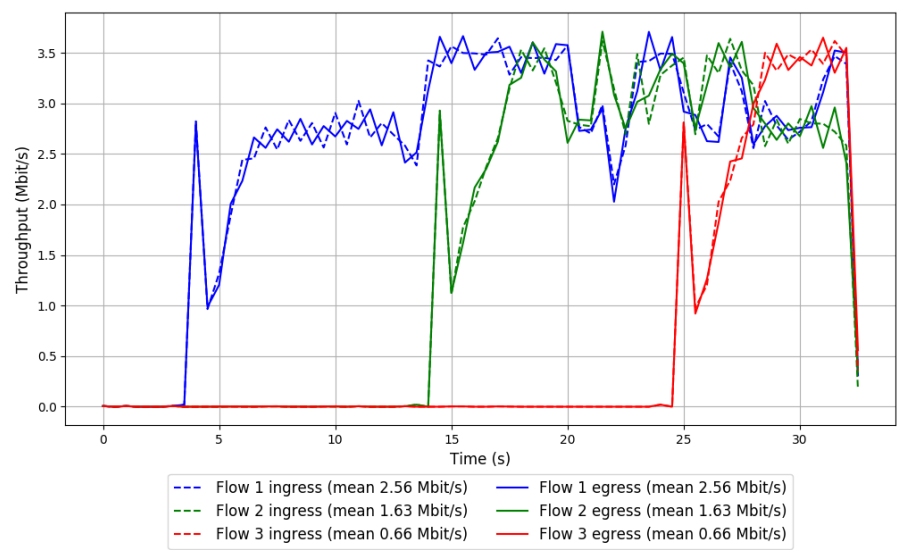


Run 10: Statistics of WebRTC media

Start at: 2018-01-10 06:39:00  
End at: 2018-01-10 06:39:30  
Local clock offset: 0.01 ms  
Remote clock offset: -2.178 ms

# Below is generated by plot.py at 2018-01-10 11:21:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.83 Mbit/s  
95th percentile per-packet one-way delay: 18.022 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 2.56 Mbit/s  
95th percentile per-packet one-way delay: 17.736 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 1.63 Mbit/s  
95th percentile per-packet one-way delay: 18.064 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 0.66 Mbit/s  
95th percentile per-packet one-way delay: 18.834 ms  
Loss rate: 0.17%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-01-10 03:21:03

End at: 2018-01-10 03:21:33

Local clock offset: -0.718 ms

Remote clock offset: -2.61 ms

# Below is generated by plot.py at 2018-01-10 11:21:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 49.06 Mbit/s

95th percentile per-packet one-way delay: 21.504 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 24.77 Mbit/s

95th percentile per-packet one-way delay: 21.901 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 24.61 Mbit/s

95th percentile per-packet one-way delay: 21.101 ms

Loss rate: 0.00%

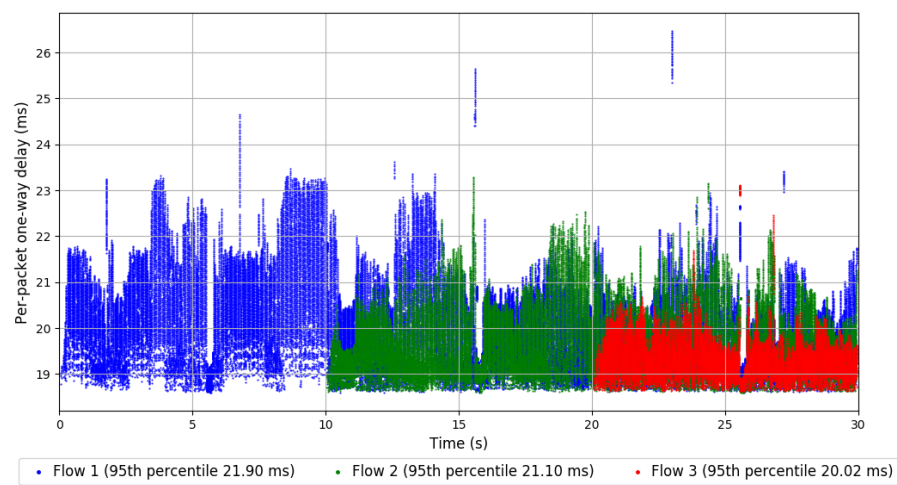
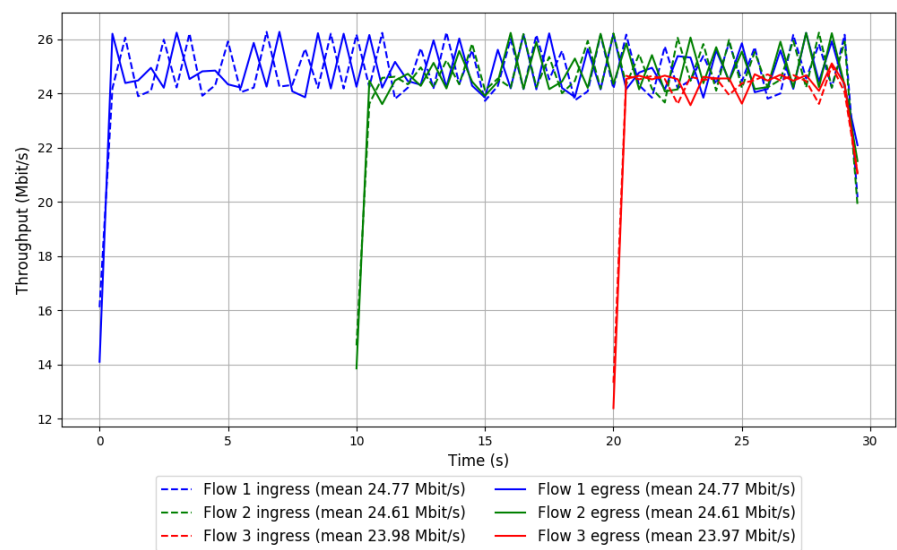
-- Flow 3:

Average throughput: 23.97 Mbit/s

95th percentile per-packet one-way delay: 20.025 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

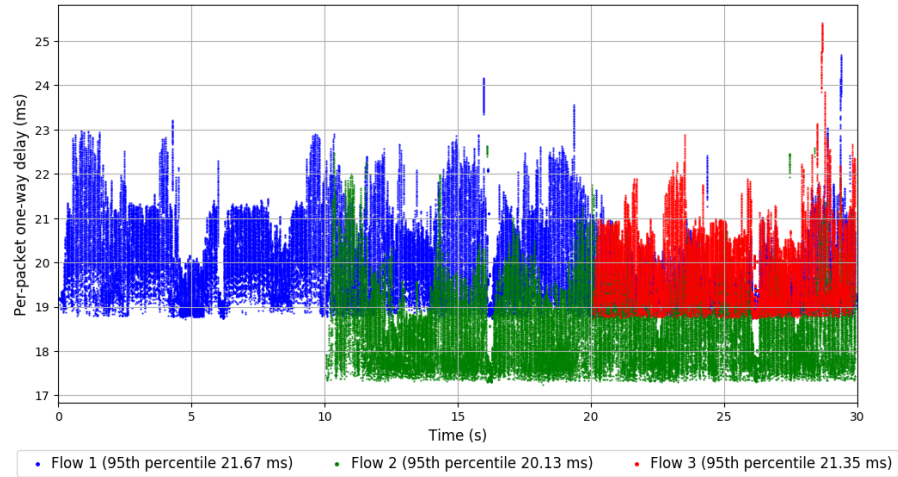
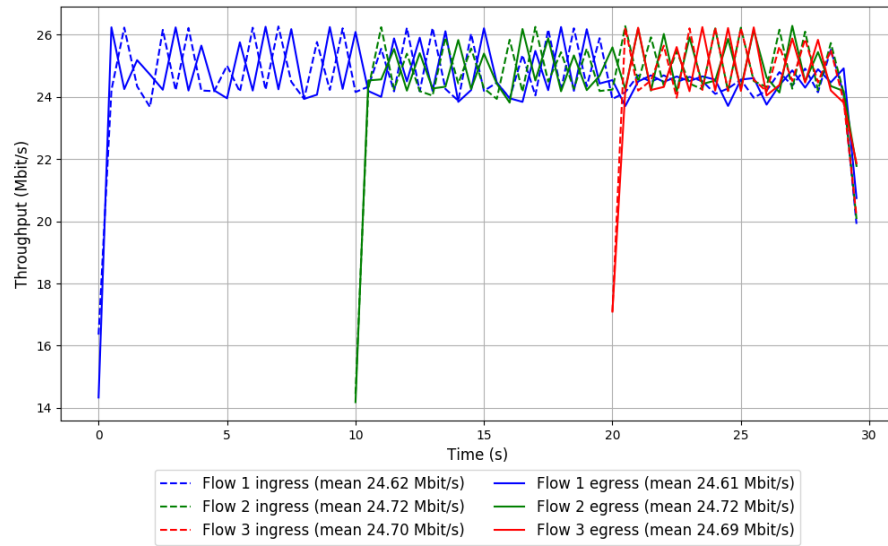


## Run 2: Statistics of Sprout

Start at: 2018-01-10 03:42:53  
End at: 2018-01-10 03:43:23  
Local clock offset: -0.462 ms  
Remote clock offset: -2.494 ms

```
# Below is generated by plot.py at 2018-01-10 11:21:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.20 Mbit/s
95th percentile per-packet one-way delay: 21.337 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 24.61 Mbit/s
95th percentile per-packet one-way delay: 21.670 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 24.72 Mbit/s
95th percentile per-packet one-way delay: 20.132 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.69 Mbit/s
95th percentile per-packet one-way delay: 21.354 ms
Loss rate: 0.00%
```

## Run 2: Report of Sprout — Data Link



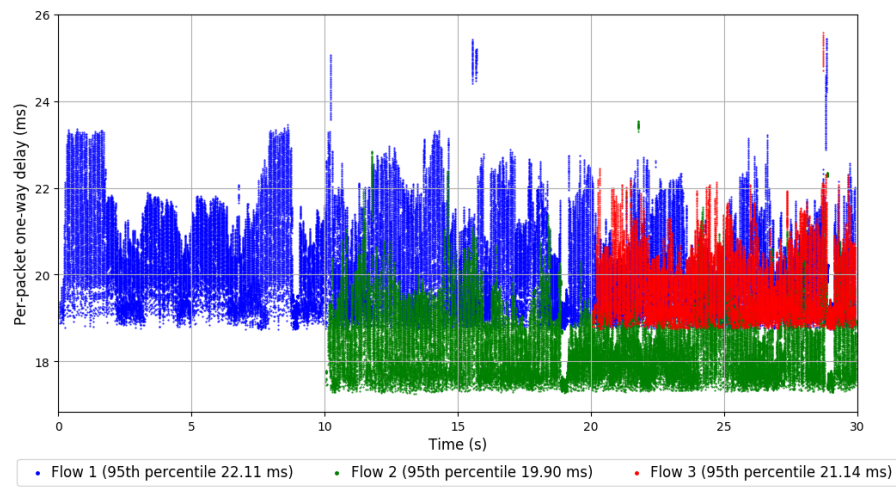
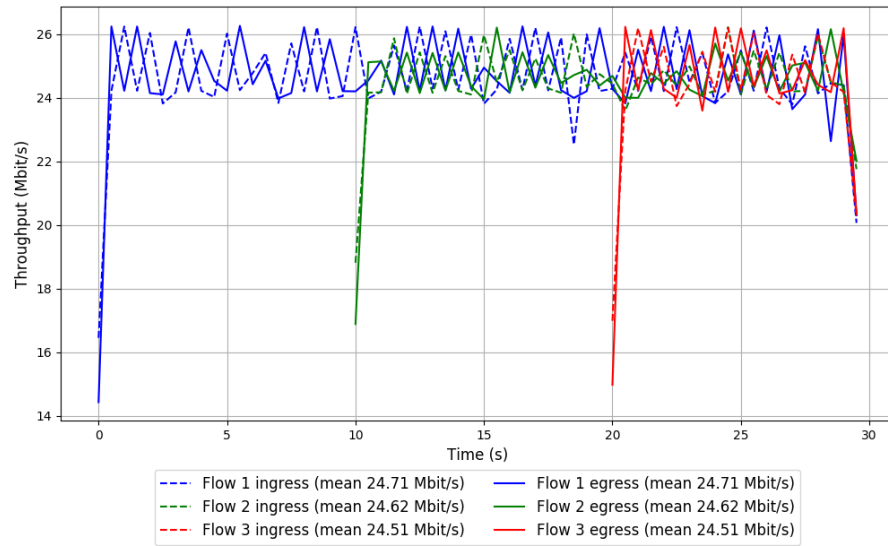
### Run 3: Statistics of Sprout

Start at: 2018-01-10 04:04:50  
End at: 2018-01-10 04:05:20  
Local clock offset: 0.146 ms  
Remote clock offset: -2.452 ms

```
# Below is generated by plot.py at 2018-01-10 11:21:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.18 Mbit/s
95th percentile per-packet one-way delay: 21.689 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.71 Mbit/s
95th percentile per-packet one-way delay: 22.115 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.62 Mbit/s
95th percentile per-packet one-way delay: 19.901 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.51 Mbit/s
95th percentile per-packet one-way delay: 21.135 ms
Loss rate: 0.00%
```



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

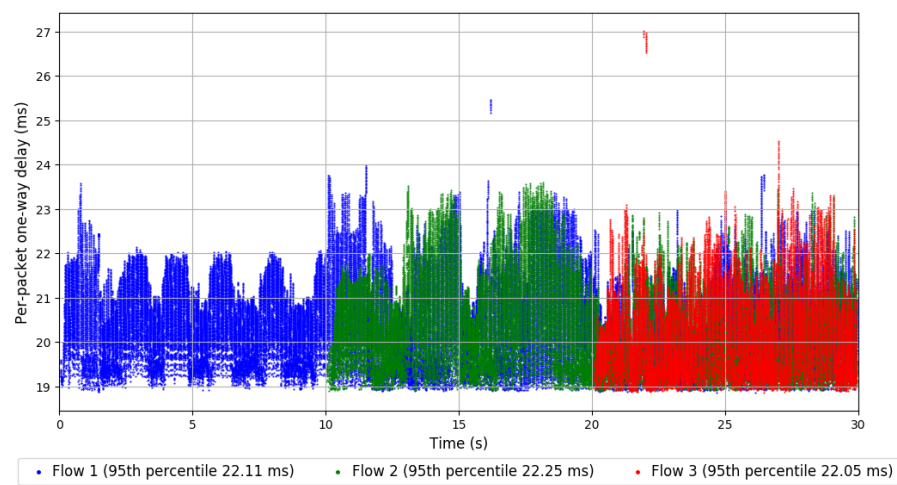
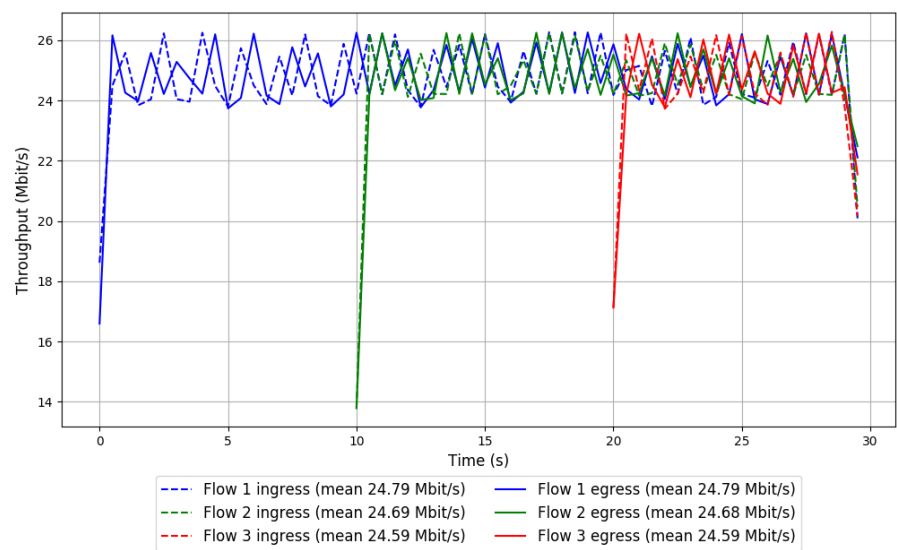


#### Run 4: Statistics of Sprout

Start at: 2018-01-10 04:26:47  
End at: 2018-01-10 04:27:17  
Local clock offset: 0.655 ms  
Remote clock offset: -2.138 ms

```
# Below is generated by plot.py at 2018-01-10 11:21:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.33 Mbit/s
95th percentile per-packet one-way delay: 22.141 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.79 Mbit/s
95th percentile per-packet one-way delay: 22.105 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.68 Mbit/s
95th percentile per-packet one-way delay: 22.249 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.59 Mbit/s
95th percentile per-packet one-way delay: 22.046 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

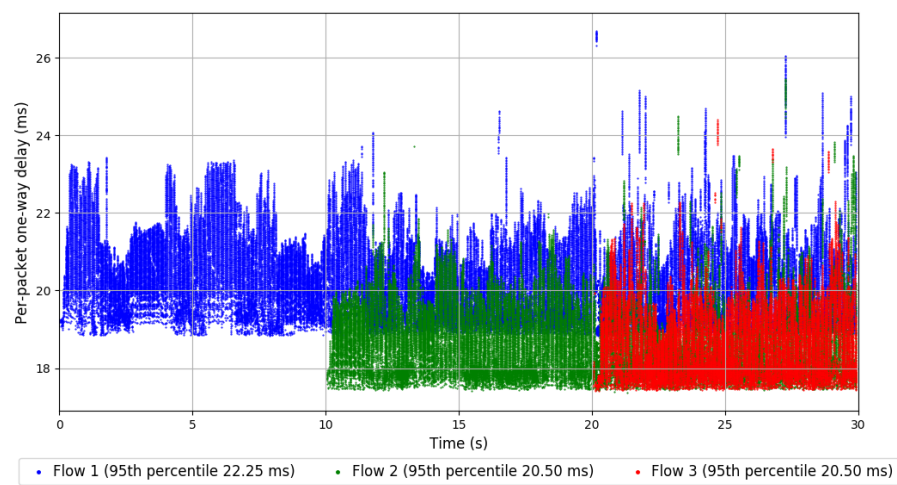
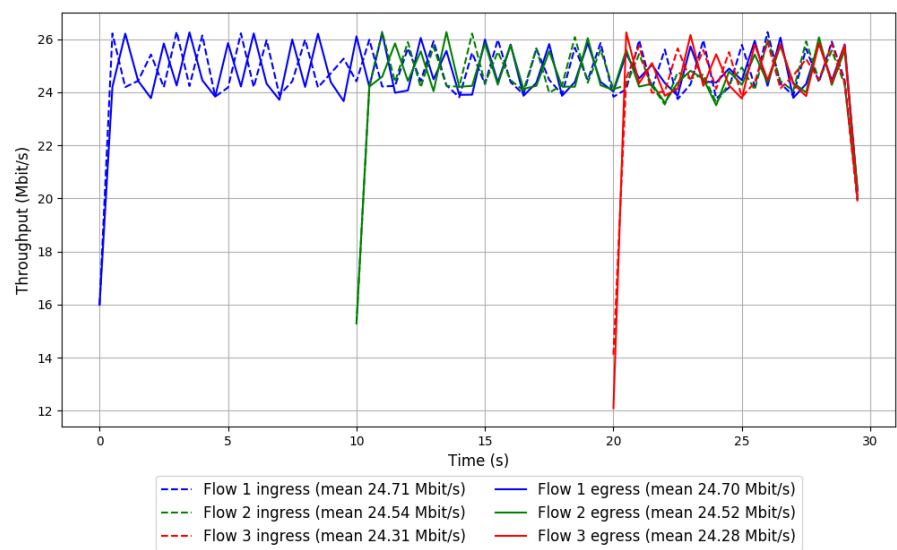


Run 5: Statistics of Sprout

Start at: 2018-01-10 04:48:26  
End at: 2018-01-10 04:48:56  
Local clock offset: 1.041 ms  
Remote clock offset: -2.349 ms

# Below is generated by plot.py at 2018-01-10 11:21:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 49.04 Mbit/s  
95th percentile per-packet one-way delay: 21.804 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 24.70 Mbit/s  
95th percentile per-packet one-way delay: 22.250 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 24.52 Mbit/s  
95th percentile per-packet one-way delay: 20.500 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 24.28 Mbit/s  
95th percentile per-packet one-way delay: 20.502 ms  
Loss rate: 0.09%

Run 5: Report of Sprout — Data Link

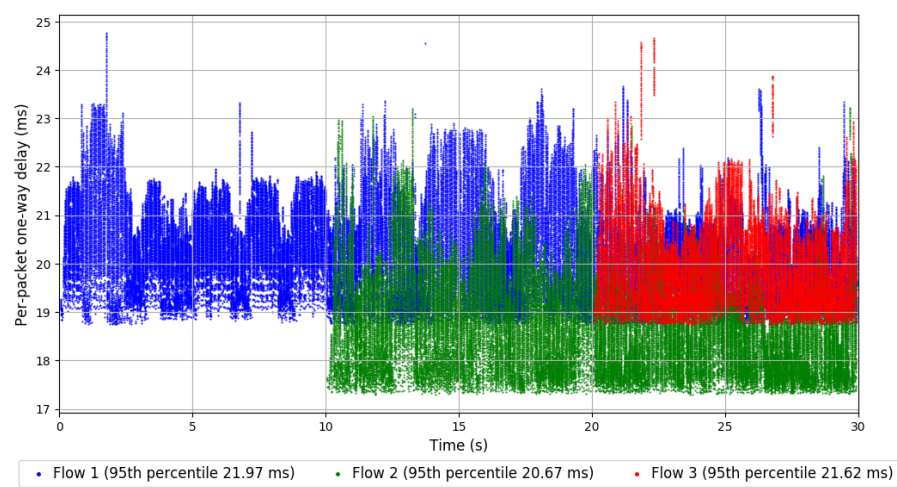
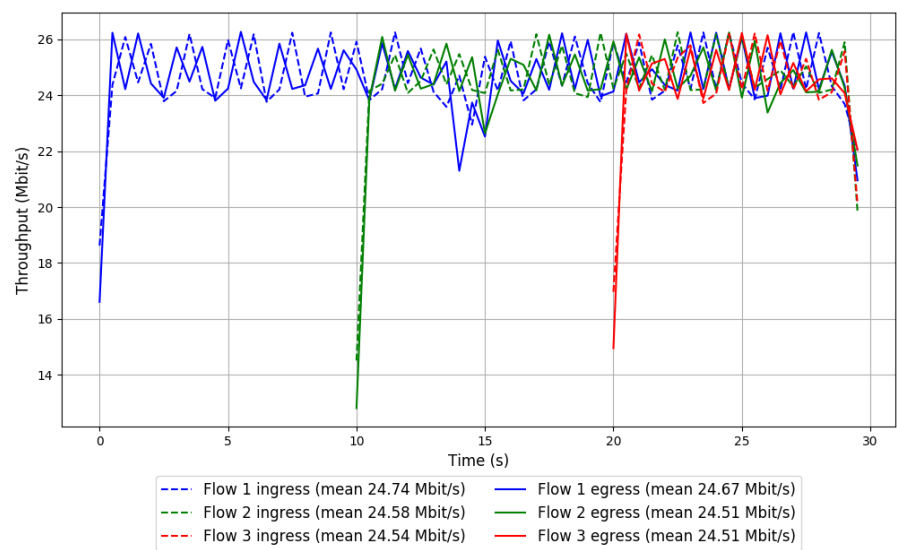


Run 6: Statistics of Sprout

Start at: 2018-01-10 05:10:11  
End at: 2018-01-10 05:10:41  
Local clock offset: 1.191 ms  
Remote clock offset: -2.472 ms

# Below is generated by plot.py at 2018-01-10 11:21:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 49.05 Mbit/s  
95th percentile per-packet one-way delay: 21.668 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 24.67 Mbit/s  
95th percentile per-packet one-way delay: 21.968 ms  
Loss rate: 0.32%  
-- Flow 2:  
Average throughput: 24.51 Mbit/s  
95th percentile per-packet one-way delay: 20.666 ms  
Loss rate: 0.26%  
-- Flow 3:  
Average throughput: 24.51 Mbit/s  
95th percentile per-packet one-way delay: 21.622 ms  
Loss rate: 0.10%

Run 6: Report of Sprout — Data Link



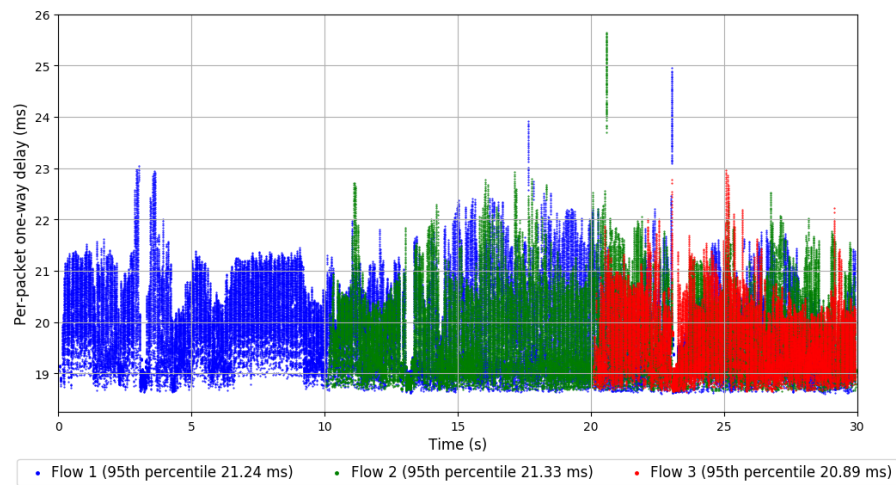
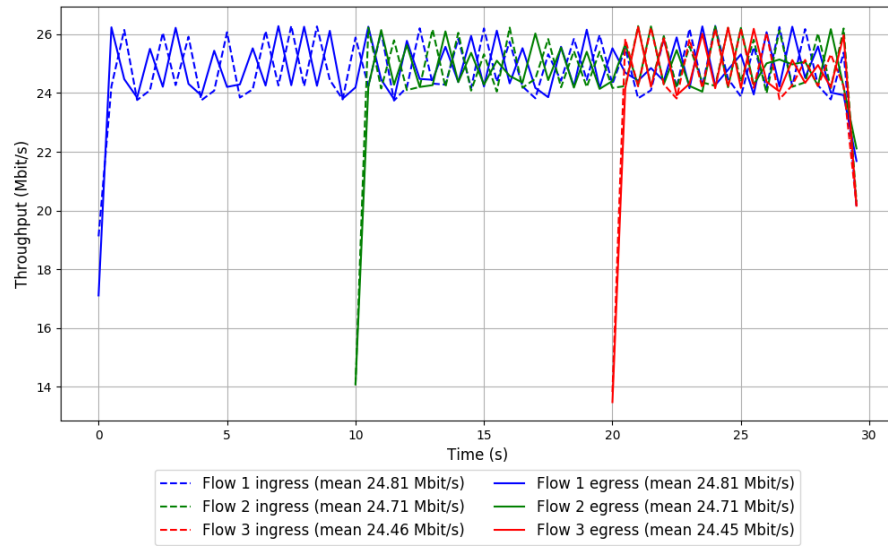
#### Run 7: Statistics of Sprout

Start at: 2018-01-10 05:32:01  
End at: 2018-01-10 05:32:31  
Local clock offset: 1.12 ms  
Remote clock offset: -2.103 ms

```
# Below is generated by plot.py at 2018-01-10 11:21:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.29 Mbit/s
95th percentile per-packet one-way delay: 21.227 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 24.81 Mbit/s
95th percentile per-packet one-way delay: 21.242 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.71 Mbit/s
95th percentile per-packet one-way delay: 21.330 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 24.45 Mbit/s
95th percentile per-packet one-way delay: 20.890 ms
Loss rate: 0.00%
```



## Run 7: Report of Sprout — Data Link

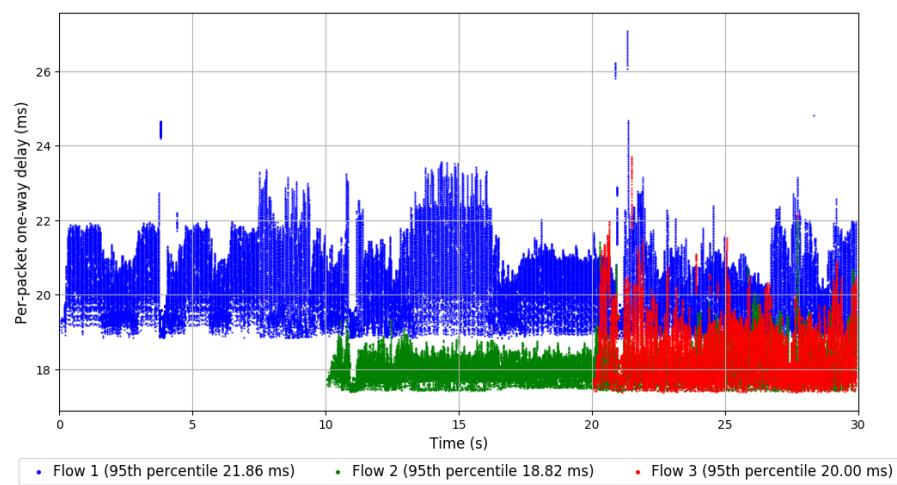
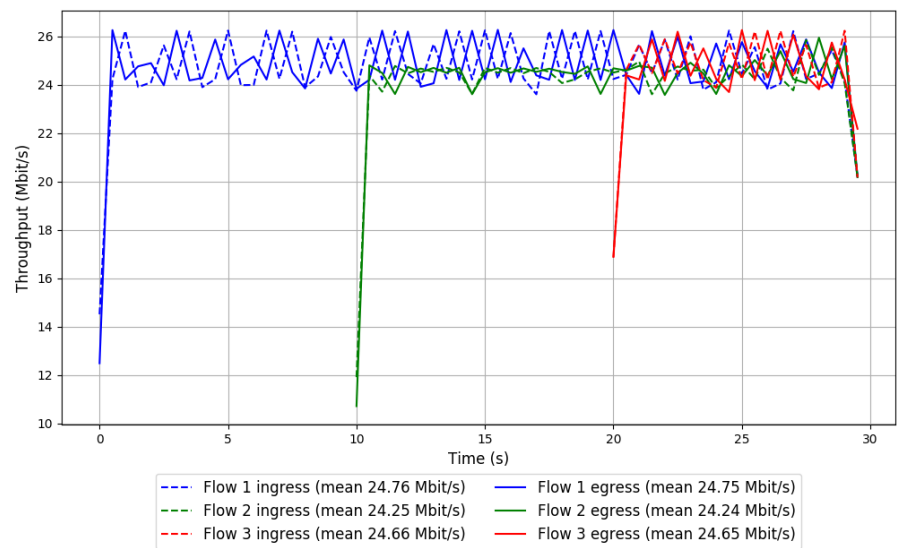


Run 8: Statistics of Sprout

Start at: 2018-01-10 05:53:53  
End at: 2018-01-10 05:54:23  
Local clock offset: 0.733 ms  
Remote clock offset: -2.088 ms

```
# Below is generated by plot.py at 2018-01-10 11:21:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.99 Mbit/s
95th percentile per-packet one-way delay: 21.486 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.75 Mbit/s
95th percentile per-packet one-way delay: 21.861 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.24 Mbit/s
95th percentile per-packet one-way delay: 18.824 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.65 Mbit/s
95th percentile per-packet one-way delay: 19.998 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link

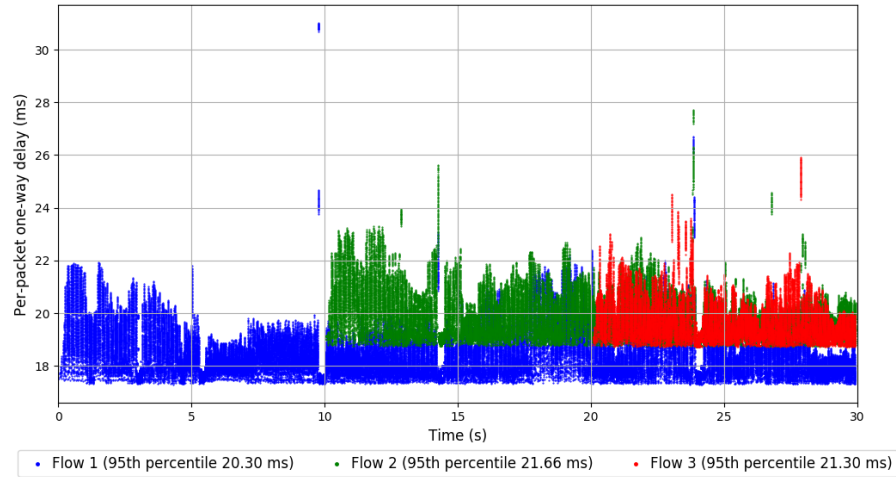
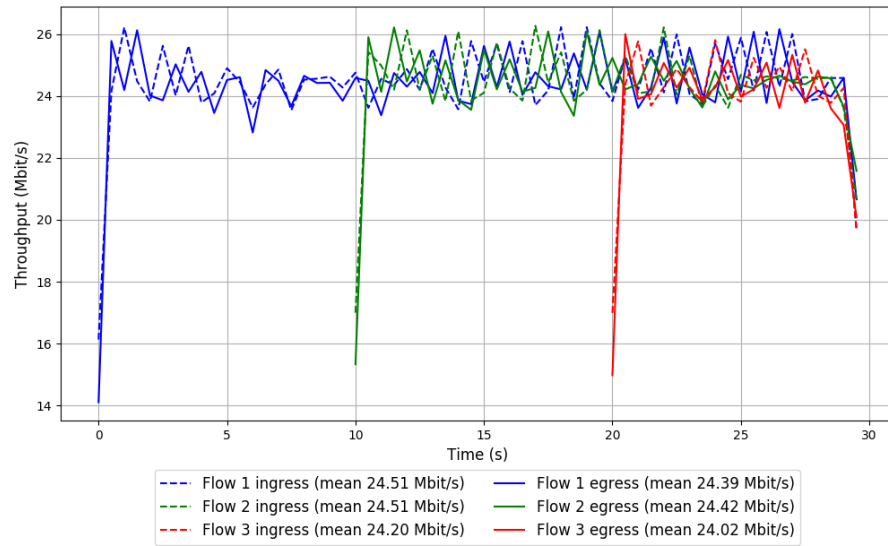


Run 9: Statistics of Sprout

Start at: 2018-01-10 06:15:50  
End at: 2018-01-10 06:16:20  
Local clock offset: 0.234 ms  
Remote clock offset: -2.354 ms

# Below is generated by plot.py at 2018-01-10 11:21:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 48.56 Mbit/s  
95th percentile per-packet one-way delay: 21.158 ms  
Loss rate: 0.50%  
-- Flow 1:  
Average throughput: 24.39 Mbit/s  
95th percentile per-packet one-way delay: 20.300 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 24.42 Mbit/s  
95th percentile per-packet one-way delay: 21.660 ms  
Loss rate: 0.36%  
-- Flow 3:  
Average throughput: 24.02 Mbit/s  
95th percentile per-packet one-way delay: 21.301 ms  
Loss rate: 0.74%

## Run 9: Report of Sprout — Data Link

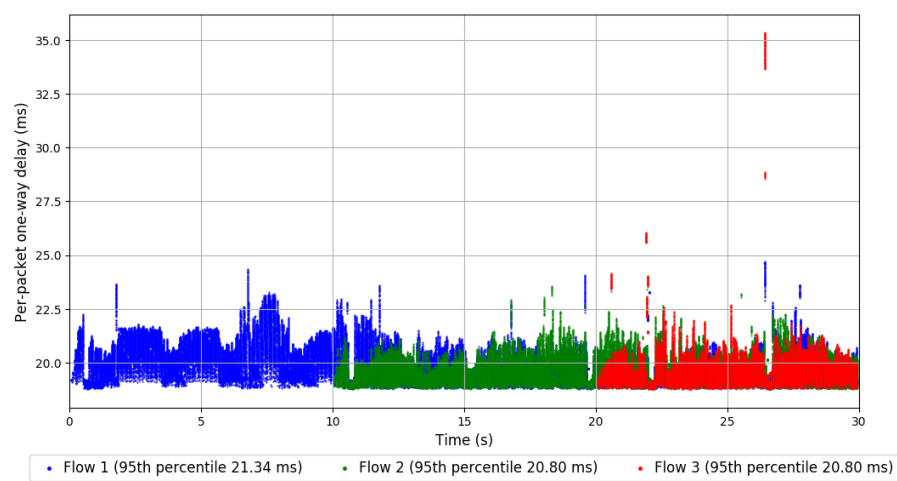
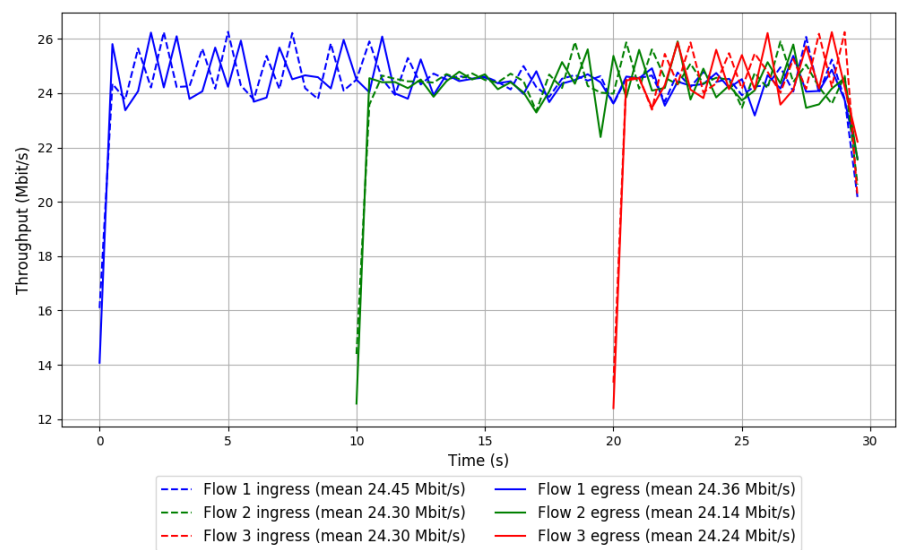


Run 10: Statistics of Sprout

Start at: 2018-01-10 06:36:33  
End at: 2018-01-10 06:37:03  
Local clock offset: -0.054 ms  
Remote clock offset: -2.123 ms

# Below is generated by plot.py at 2018-01-10 11:21:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 48.43 Mbit/s  
95th percentile per-packet one-way delay: 21.135 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 24.36 Mbit/s  
95th percentile per-packet one-way delay: 21.337 ms  
Loss rate: 0.36%  
-- Flow 2:  
Average throughput: 24.14 Mbit/s  
95th percentile per-packet one-way delay: 20.805 ms  
Loss rate: 0.63%  
-- Flow 3:  
Average throughput: 24.24 Mbit/s  
95th percentile per-packet one-way delay: 20.797 ms  
Loss rate: 0.26%

Run 10: Report of Sprout — Data Link



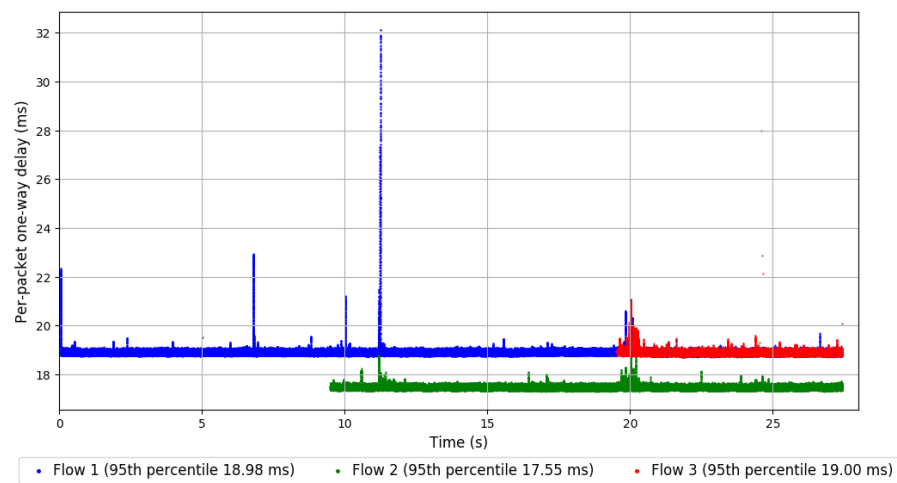
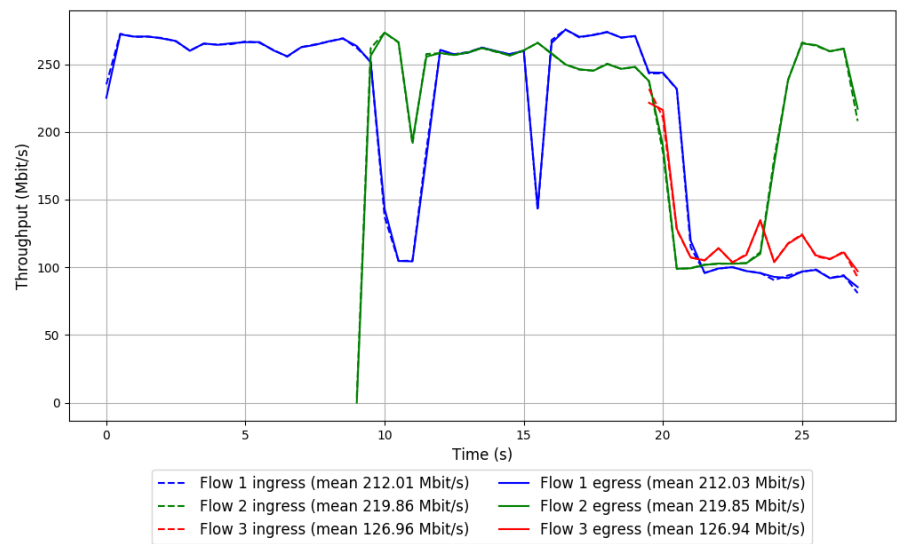
```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-10 03:18:15
End at: 2018-01-10 03:18:45
Local clock offset: -0.888 ms
Remote clock offset: -2.601 ms

# Below is generated by plot.py at 2018-01-10 11:31:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 392.64 Mbit/s
95th percentile per-packet one-way delay: 18.957 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 212.03 Mbit/s
95th percentile per-packet one-way delay: 18.978 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 219.85 Mbit/s
95th percentile per-packet one-way delay: 17.547 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 126.94 Mbit/s
95th percentile per-packet one-way delay: 19.004 ms
Loss rate: 0.00%
```



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

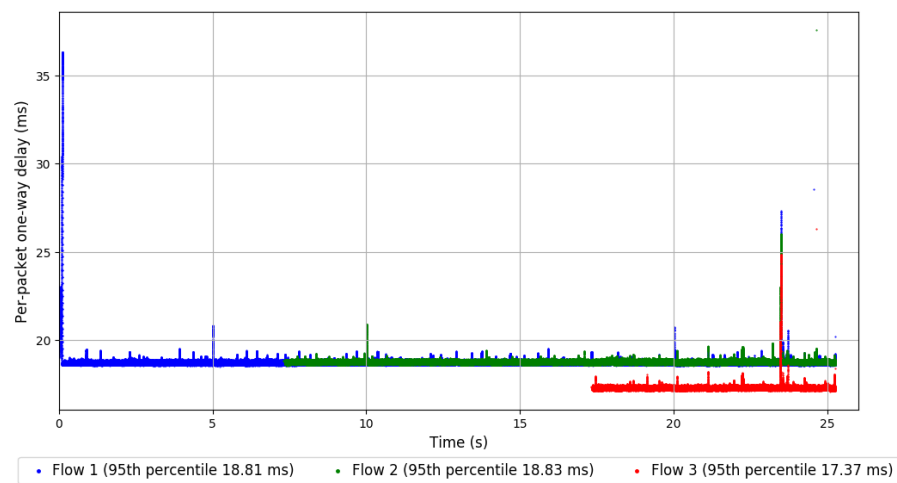
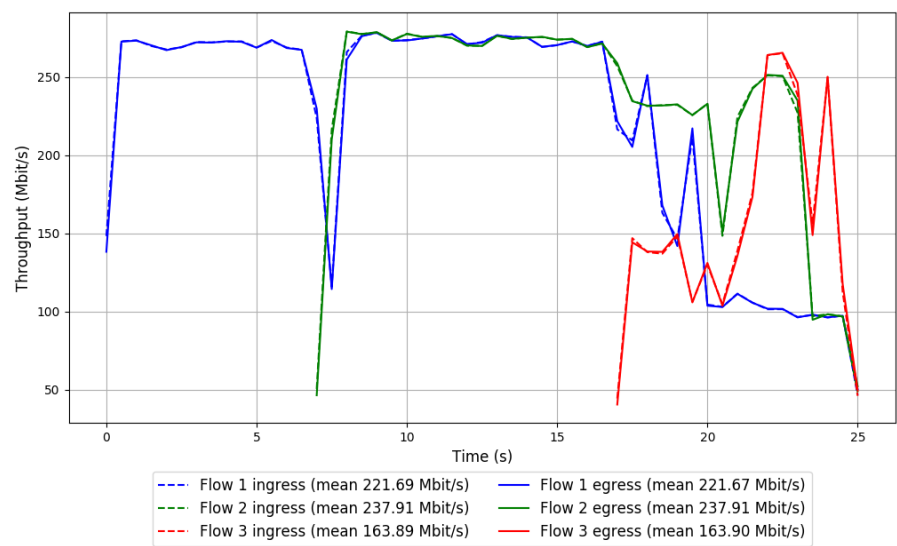


Run 2: Statistics of TaoVA-100x

Start at: 2018-01-10 03:40:03  
End at: 2018-01-10 03:40:33  
Local clock offset: -0.486 ms  
Remote clock offset: -2.647 ms

# Below is generated by plot.py at 2018-01-10 11:32:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 442.46 Mbit/s  
95th percentile per-packet one-way delay: 18.812 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 221.67 Mbit/s  
95th percentile per-packet one-way delay: 18.806 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 237.91 Mbit/s  
95th percentile per-packet one-way delay: 18.830 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 163.90 Mbit/s  
95th percentile per-packet one-way delay: 17.372 ms  
Loss rate: 0.00%

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

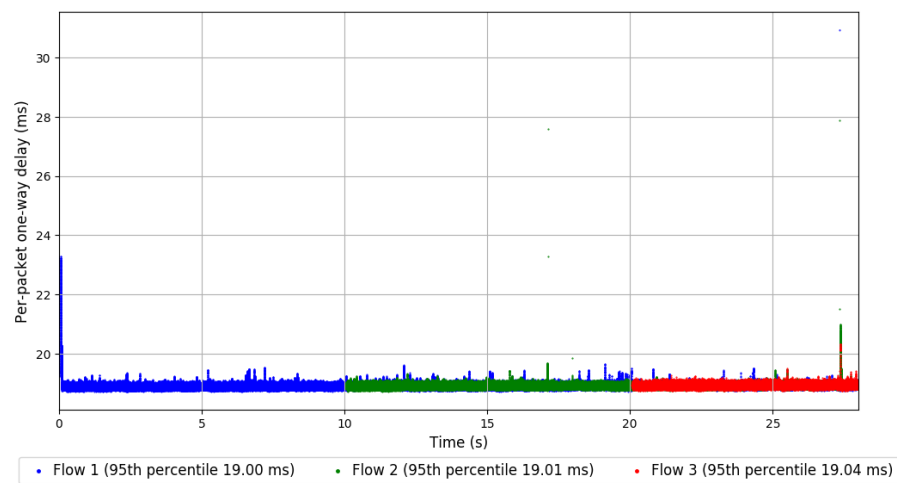
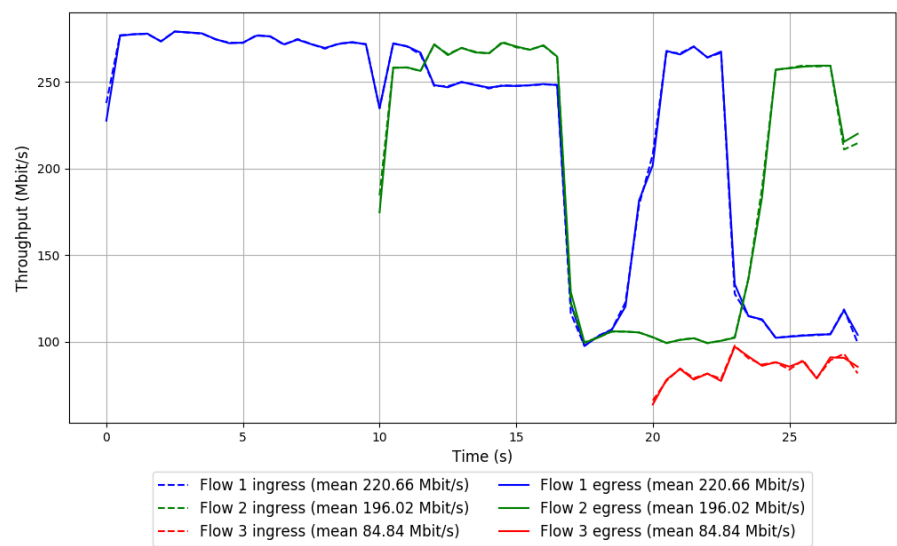


Run 3: Statistics of TaoVA-100x

Start at: 2018-01-10 04:02:03  
End at: 2018-01-10 04:02:33  
Local clock offset: 0.072 ms  
Remote clock offset: -2.204 ms

# Below is generated by plot.py at 2018-01-10 11:32:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 370.55 Mbit/s  
95th percentile per-packet one-way delay: 19.005 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 220.66 Mbit/s  
95th percentile per-packet one-way delay: 18.998 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 196.02 Mbit/s  
95th percentile per-packet one-way delay: 19.008 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 84.84 Mbit/s  
95th percentile per-packet one-way delay: 19.040 ms  
Loss rate: 0.00%

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

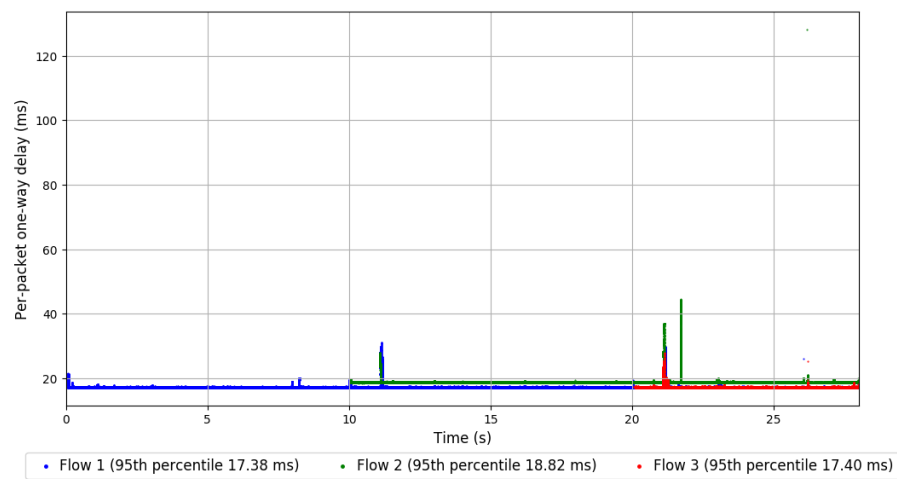
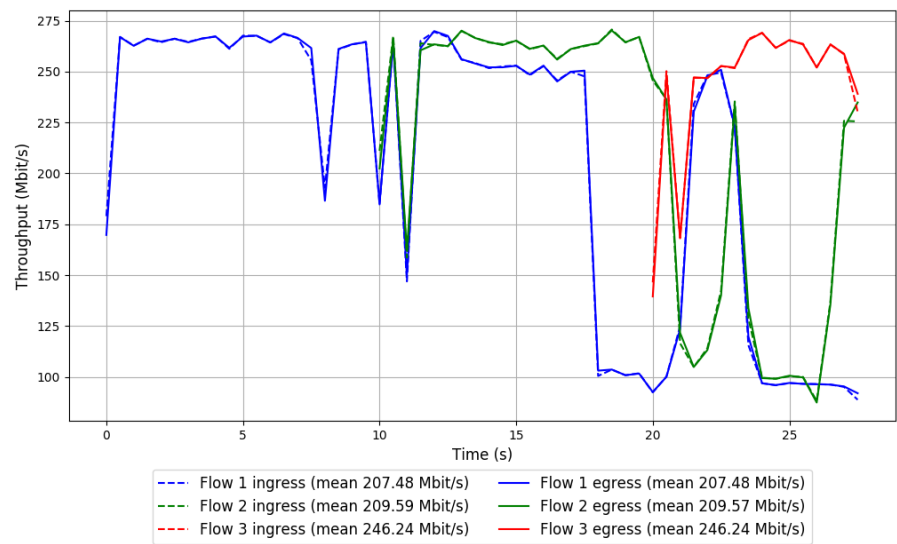


Run 4: Statistics of TaoVA-100x

Start at: 2018-01-10 04:23:56  
End at: 2018-01-10 04:24:26  
Local clock offset: 0.695 ms  
Remote clock offset: -2.307 ms

# Below is generated by plot.py at 2018-01-10 11:32:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 411.59 Mbit/s  
95th percentile per-packet one-way delay: 18.758 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 207.48 Mbit/s  
95th percentile per-packet one-way delay: 17.375 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 209.57 Mbit/s  
95th percentile per-packet one-way delay: 18.820 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 246.24 Mbit/s  
95th percentile per-packet one-way delay: 17.401 ms  
Loss rate: 0.00%

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



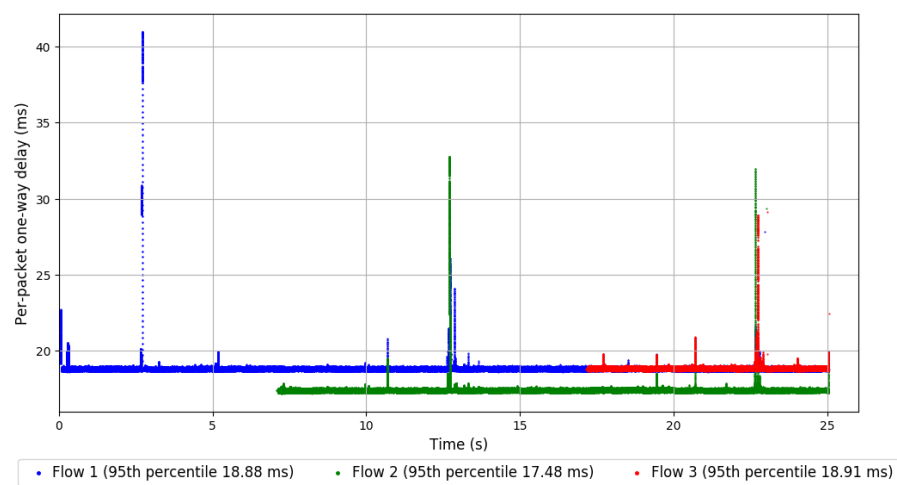
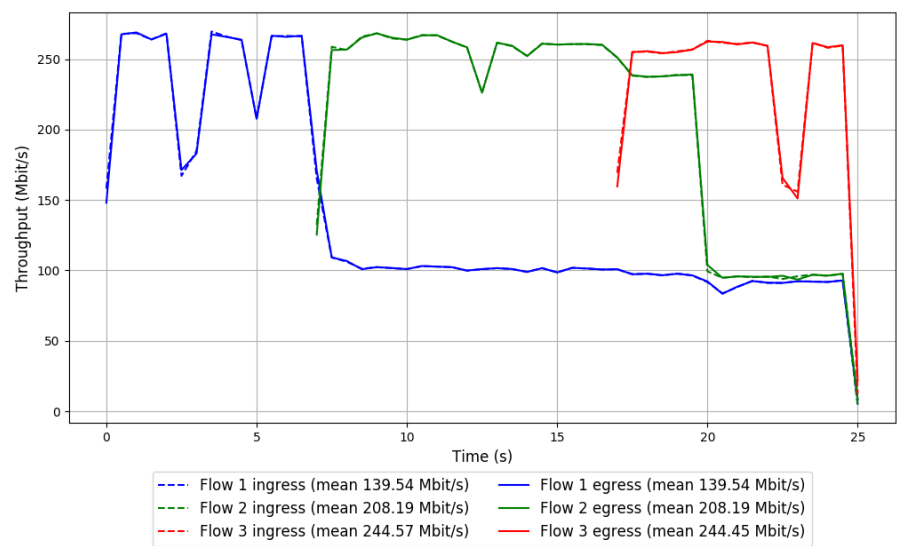
Run 5: Statistics of TaoVA-100x

Start at: 2018-01-10 04:45:41  
End at: 2018-01-10 04:46:11  
Local clock offset: 1.093 ms  
Remote clock offset: -2.315 ms

# Below is generated by plot.py at 2018-01-10 11:32:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 365.97 Mbit/s  
95th percentile per-packet one-way delay: 18.871 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 139.54 Mbit/s  
95th percentile per-packet one-way delay: 18.884 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 208.19 Mbit/s  
95th percentile per-packet one-way delay: 17.480 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 244.45 Mbit/s  
95th percentile per-packet one-way delay: 18.913 ms  
Loss rate: 0.00%



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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-10 05:07:24

End at: 2018-01-10 05:07:54

Local clock offset: 1.237 ms

Remote clock offset: -2.48 ms

# Below is generated by plot.py at 2018-01-10 11:32:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 392.87 Mbit/s

95th percentile per-packet one-way delay: 18.837 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 201.18 Mbit/s

95th percentile per-packet one-way delay: 18.851 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 169.34 Mbit/s

95th percentile per-packet one-way delay: 17.426 ms

Loss rate: 0.00%

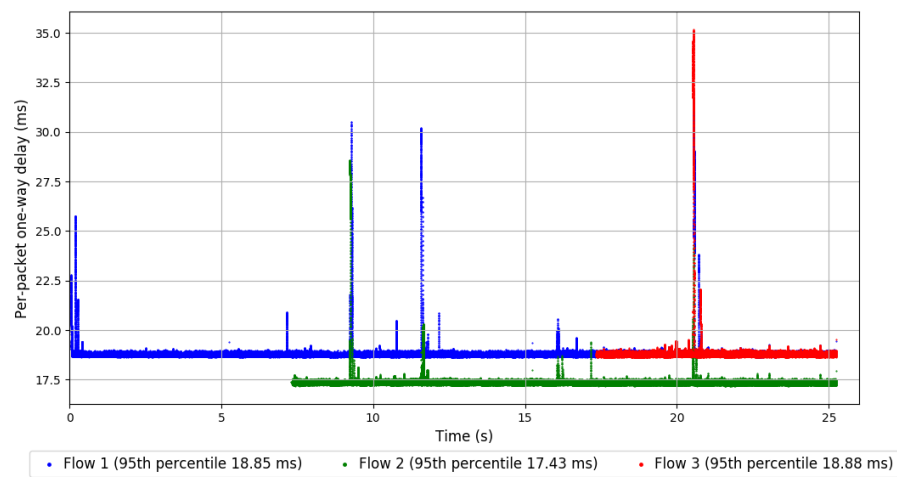
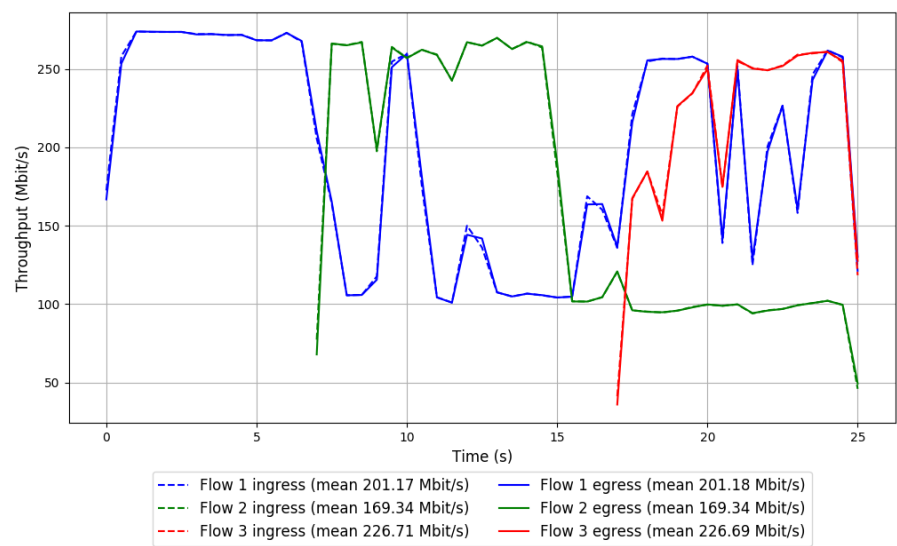
-- Flow 3:

Average throughput: 226.69 Mbit/s

95th percentile per-packet one-way delay: 18.877 ms

Loss rate: 0.01%

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

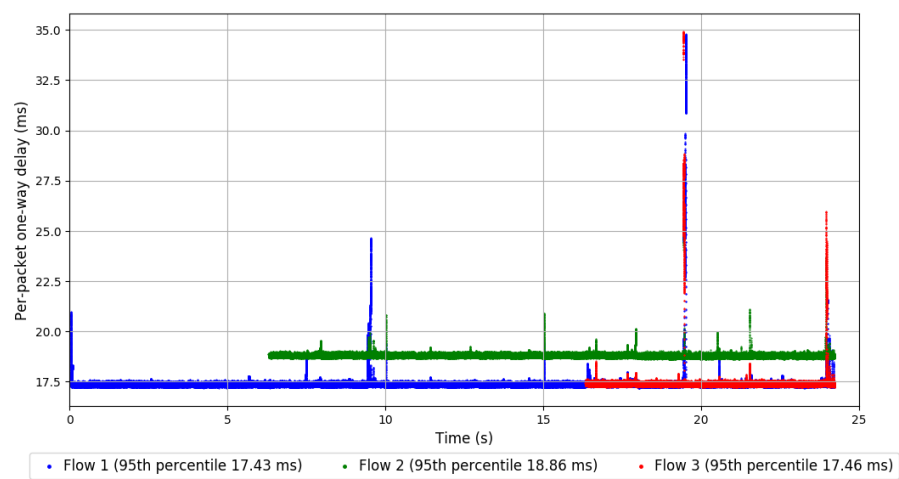
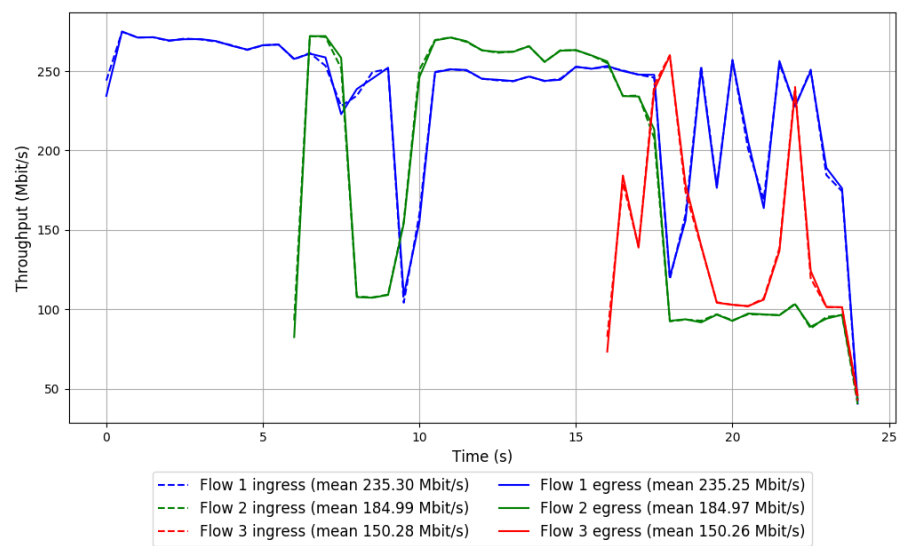


Run 7: Statistics of TaoVA-100x

Start at: 2018-01-10 05:29:14  
End at: 2018-01-10 05:29:44  
Local clock offset: 1.072 ms  
Remote clock offset: -2.162 ms

# Below is generated by plot.py at 2018-01-10 11:37:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 421.40 Mbit/s  
95th percentile per-packet one-way delay: 18.799 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 235.25 Mbit/s  
95th percentile per-packet one-way delay: 17.431 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 184.97 Mbit/s  
95th percentile per-packet one-way delay: 18.860 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 150.26 Mbit/s  
95th percentile per-packet one-way delay: 17.460 ms  
Loss rate: 0.01%

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



Run 8: Statistics of TaoVA-100x

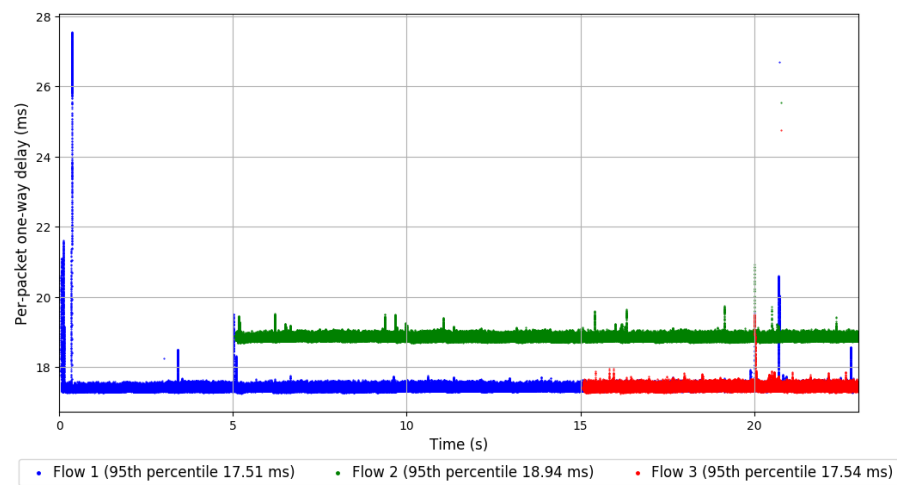
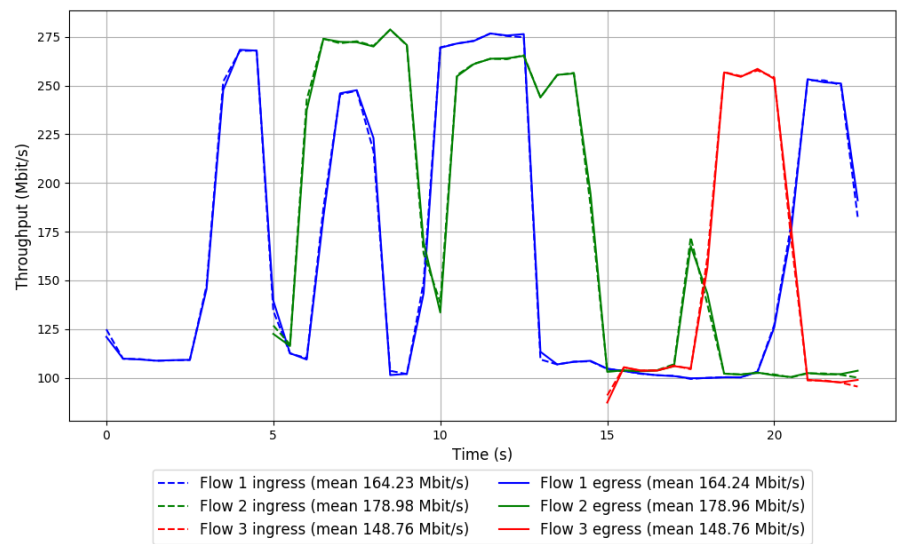
Start at: 2018-01-10 05:51:11

End at: 2018-01-10 05:51:41

Local clock offset: 0.856 ms

Remote clock offset: -1.995 ms

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



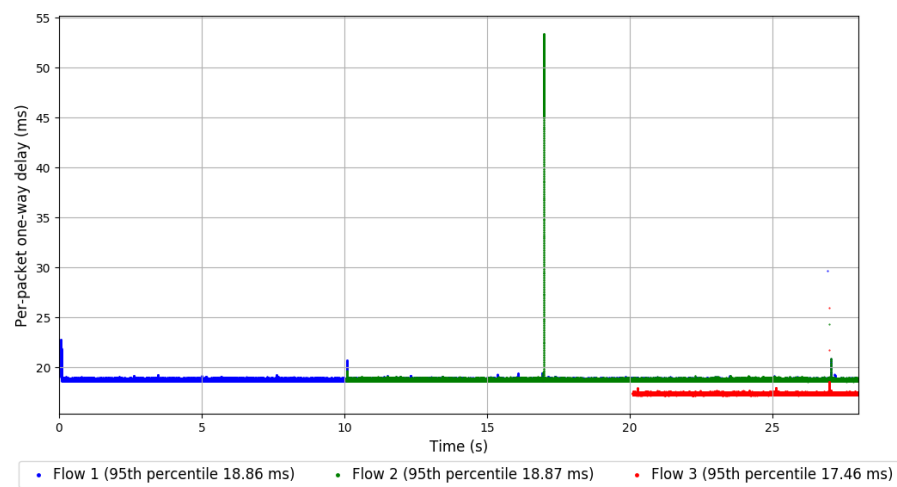
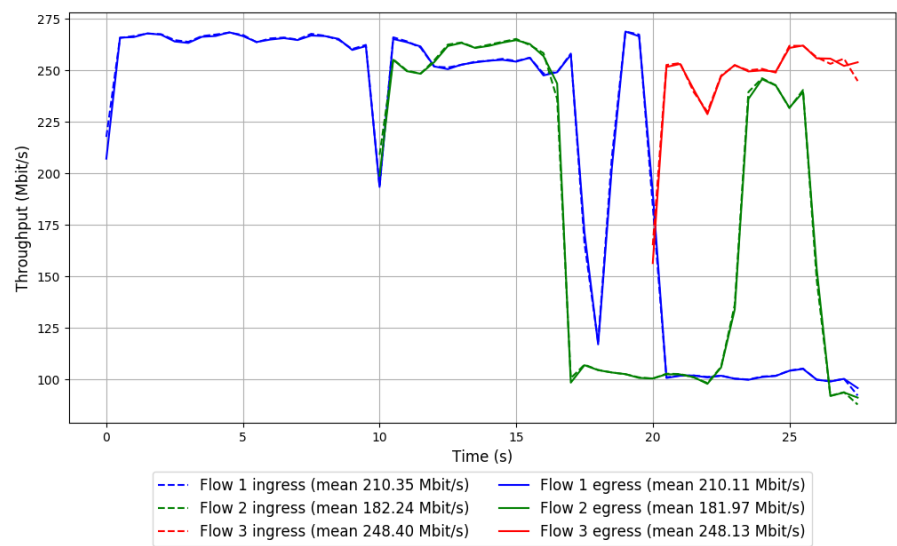
Run 9: Statistics of TaoVA-100x

Start at: 2018-01-10 06:13:00  
End at: 2018-01-10 06:13:30  
Local clock offset: 0.354 ms  
Remote clock offset: -2.309 ms

# Below is generated by plot.py at 2018-01-10 11:47:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 397.04 Mbit/s  
95th percentile per-packet one-way delay: 18.854 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 210.11 Mbit/s  
95th percentile per-packet one-way delay: 18.860 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 181.97 Mbit/s  
95th percentile per-packet one-way delay: 18.870 ms  
Loss rate: 0.15%  
-- Flow 3:  
Average throughput: 248.13 Mbit/s  
95th percentile per-packet one-way delay: 17.456 ms  
Loss rate: 0.11%



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



Run 10: Statistics of TaoVA-100x

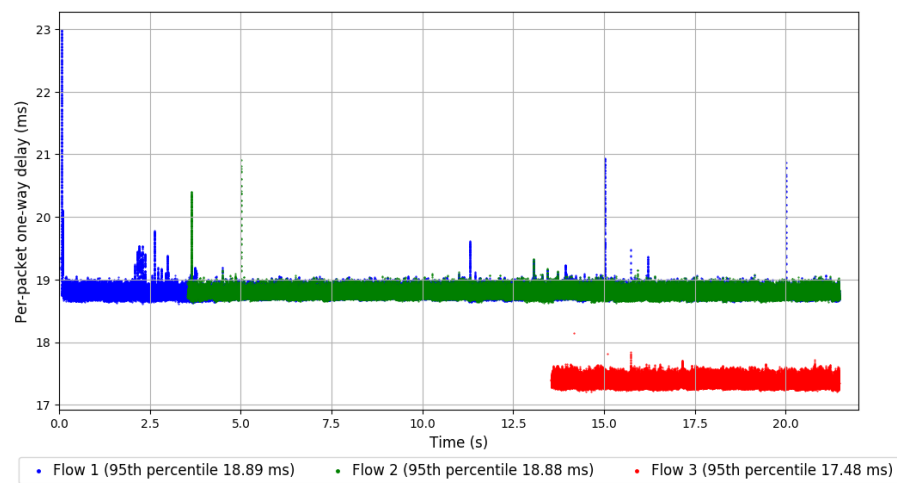
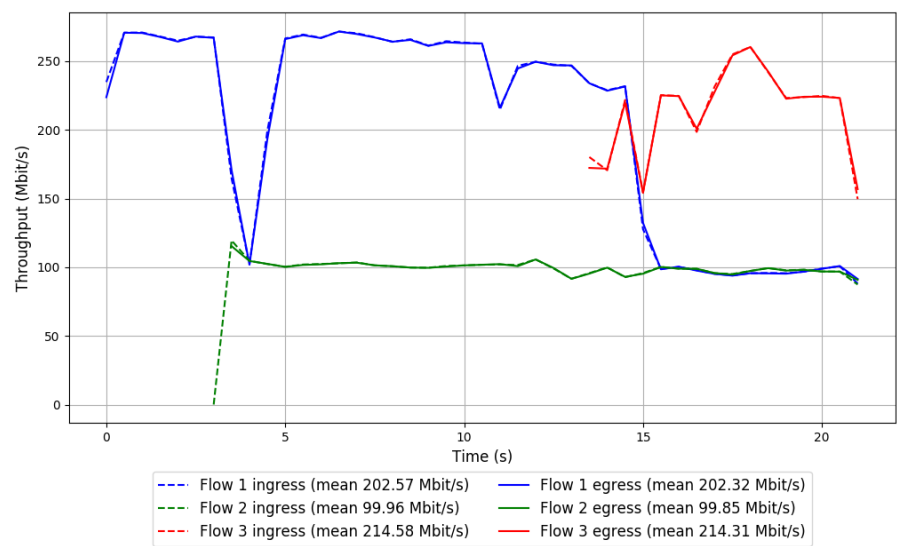
Start at: 2018-01-10 06:33:52

End at: 2018-01-10 06:34:22

Local clock offset: -0.008 ms

Remote clock offset: -2.169 ms

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-10 03:24:59

End at: 2018-01-10 03:25:29

Local clock offset: -0.658 ms

Remote clock offset: -2.5 ms

# Below is generated by plot.py at 2018-01-10 11:47:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 488.14 Mbit/s

95th percentile per-packet one-way delay: 17.682 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 240.71 Mbit/s

95th percentile per-packet one-way delay: 17.681 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 281.58 Mbit/s

95th percentile per-packet one-way delay: 17.689 ms

Loss rate: 0.02%

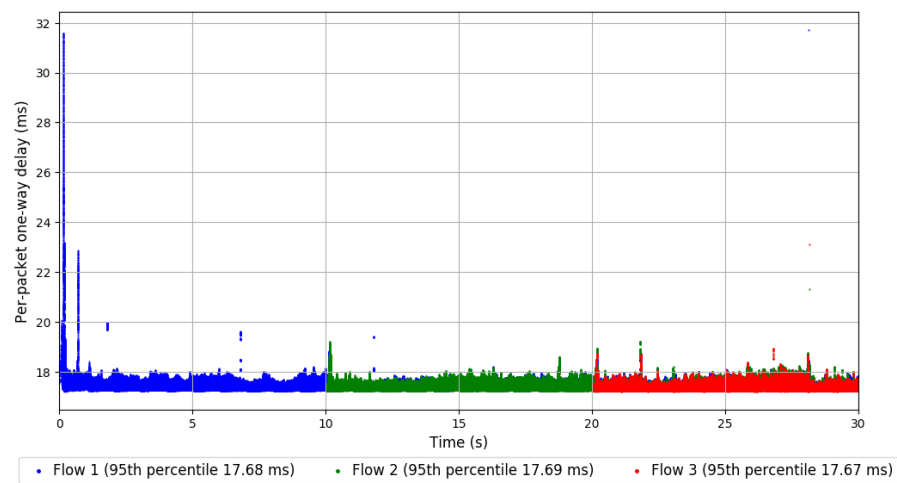
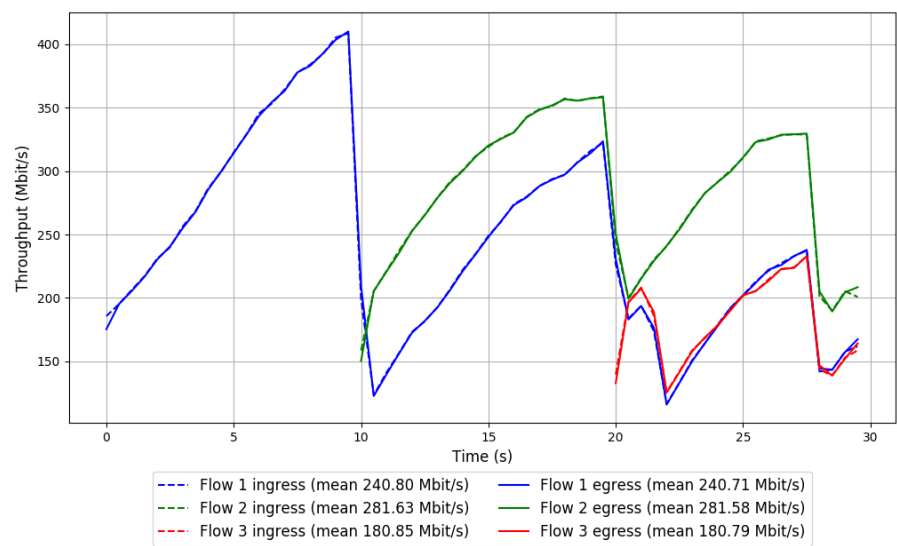
-- Flow 3:

Average throughput: 180.79 Mbit/s

95th percentile per-packet one-way delay: 17.670 ms

Loss rate: 0.03%

Run 1: Report of TCP Vegas — Data Link

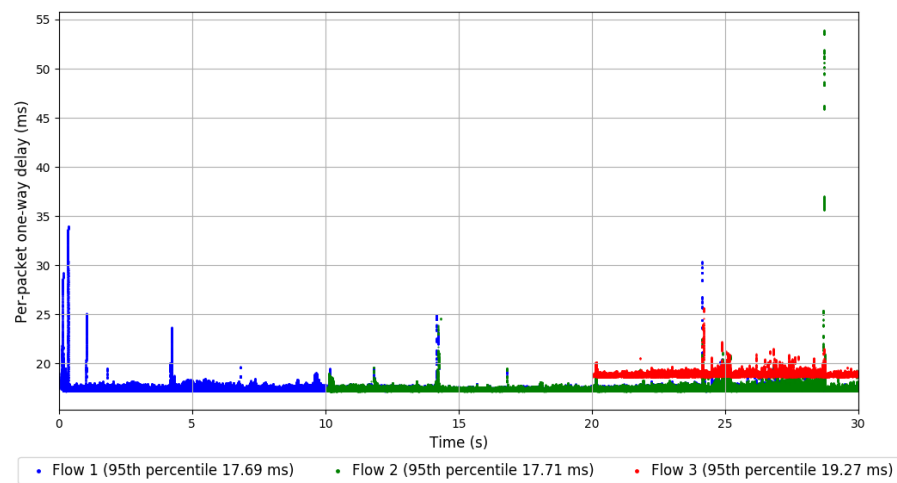
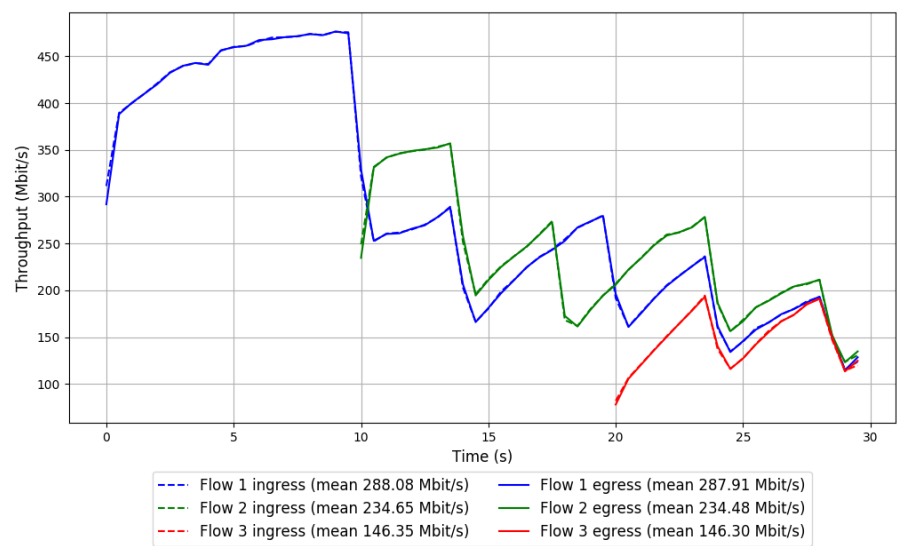


Run 2: Statistics of TCP Vegas

Start at: 2018-01-10 03:46:50  
End at: 2018-01-10 03:47:20  
Local clock offset: -0.42 ms  
Remote clock offset: -2.546 ms

# Below is generated by plot.py at 2018-01-10 11:47:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 492.58 Mbit/s  
95th percentile per-packet one-way delay: 18.875 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 287.91 Mbit/s  
95th percentile per-packet one-way delay: 17.694 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 234.48 Mbit/s  
95th percentile per-packet one-way delay: 17.714 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 146.30 Mbit/s  
95th percentile per-packet one-way delay: 19.265 ms  
Loss rate: 0.03%

Run 2: Report of TCP Vegas — Data Link



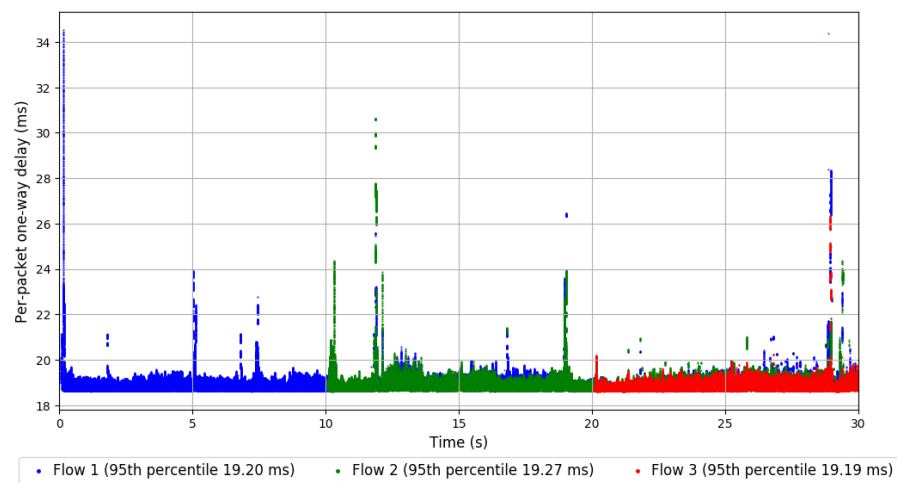
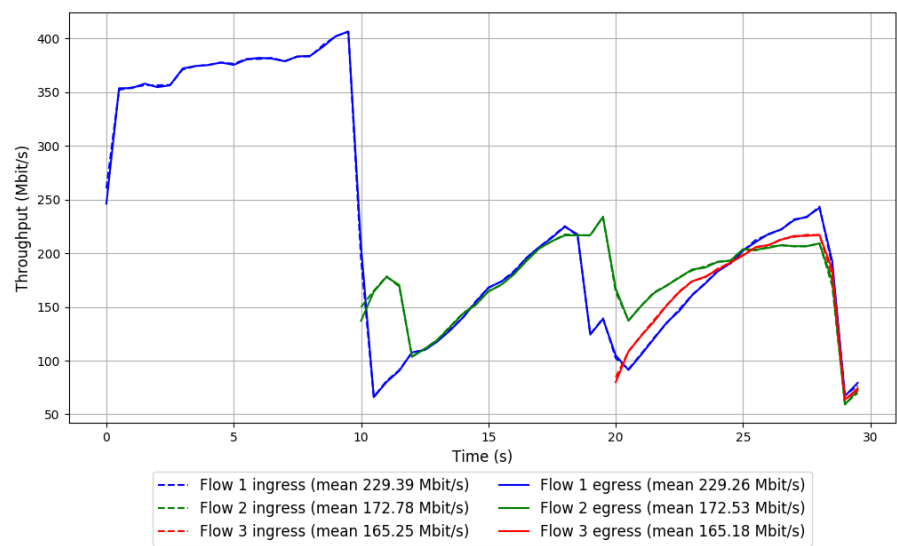
Run 3: Statistics of TCP Vegas

Start at: 2018-01-10 04:08:45  
End at: 2018-01-10 04:09:15  
Local clock offset: 0.282 ms  
Remote clock offset: -2.591 ms

# Below is generated by plot.py at 2018-01-10 11:47:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 398.99 Mbit/s  
95th percentile per-packet one-way delay: 19.217 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 229.26 Mbit/s  
95th percentile per-packet one-way delay: 19.195 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 172.53 Mbit/s  
95th percentile per-packet one-way delay: 19.273 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 165.18 Mbit/s  
95th percentile per-packet one-way delay: 19.186 ms  
Loss rate: 0.03%



Run 3: Report of TCP Vegas — Data Link

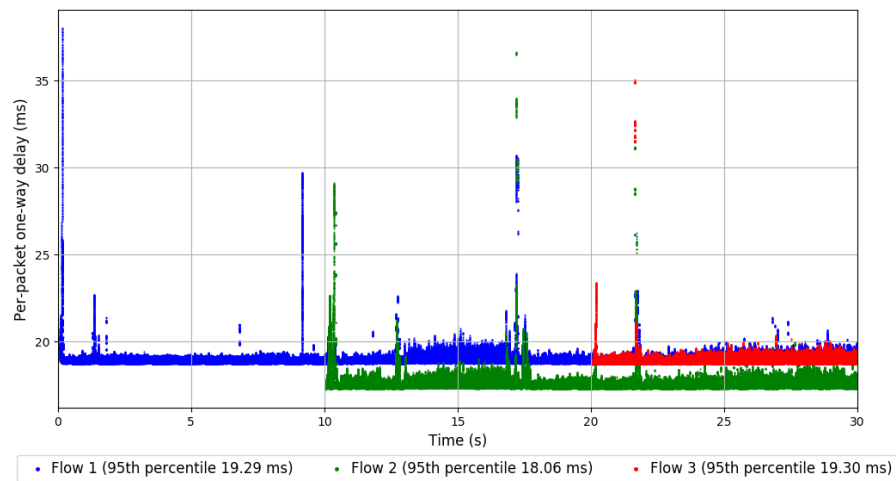
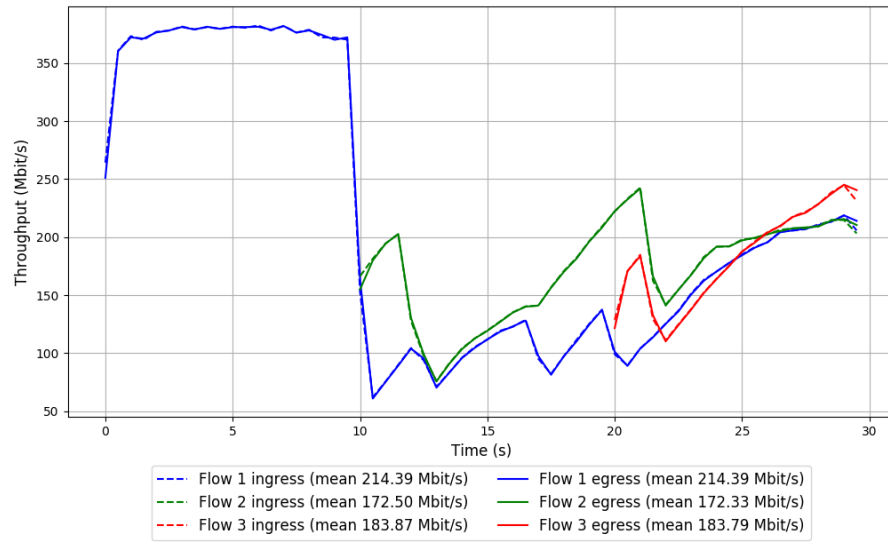


Run 4: Statistics of TCP Vegas

Start at: 2018-01-10 04:30:43  
End at: 2018-01-10 04:31:13  
Local clock offset: 0.868 ms  
Remote clock offset: -2.108 ms

# Below is generated by plot.py at 2018-01-10 11:47:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 390.17 Mbit/s  
95th percentile per-packet one-way delay: 19.251 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 214.39 Mbit/s  
95th percentile per-packet one-way delay: 19.292 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 172.33 Mbit/s  
95th percentile per-packet one-way delay: 18.060 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 183.79 Mbit/s  
95th percentile per-packet one-way delay: 19.299 ms  
Loss rate: 0.04%

# Run 4: Report of TCP Vegas — Data Link

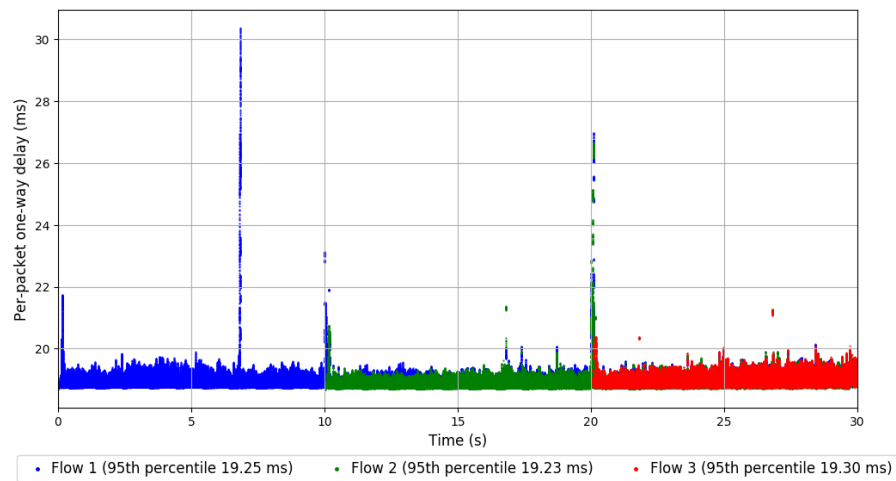
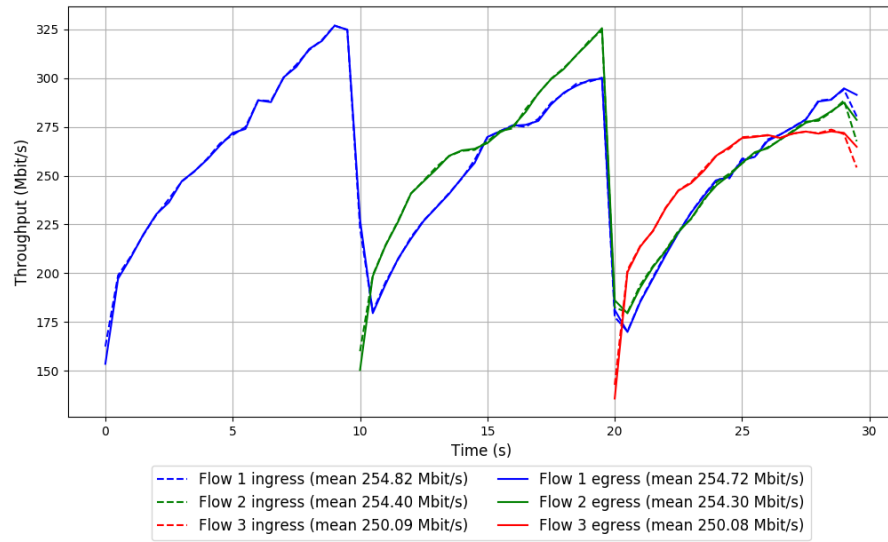


Run 5: Statistics of TCP Vegas

Start at: 2018-01-10 04:52:24  
End at: 2018-01-10 04:52:54  
Local clock offset: 1.078 ms  
Remote clock offset: -2.501 ms

# Below is generated by plot.py at 2018-01-10 11:49:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 507.09 Mbit/s  
95th percentile per-packet one-way delay: 19.254 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 254.72 Mbit/s  
95th percentile per-packet one-way delay: 19.248 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 254.30 Mbit/s  
95th percentile per-packet one-way delay: 19.233 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 250.08 Mbit/s  
95th percentile per-packet one-way delay: 19.298 ms  
Loss rate: 0.00%

# Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-10 05:14:05

End at: 2018-01-10 05:14:35

Local clock offset: 1.301 ms

Remote clock offset: -2.34 ms

# Below is generated by plot.py at 2018-01-10 11:51:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 501.03 Mbit/s

95th percentile per-packet one-way delay: 19.263 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 292.24 Mbit/s

95th percentile per-packet one-way delay: 17.848 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 204.67 Mbit/s

95th percentile per-packet one-way delay: 19.406 ms

Loss rate: 0.01%

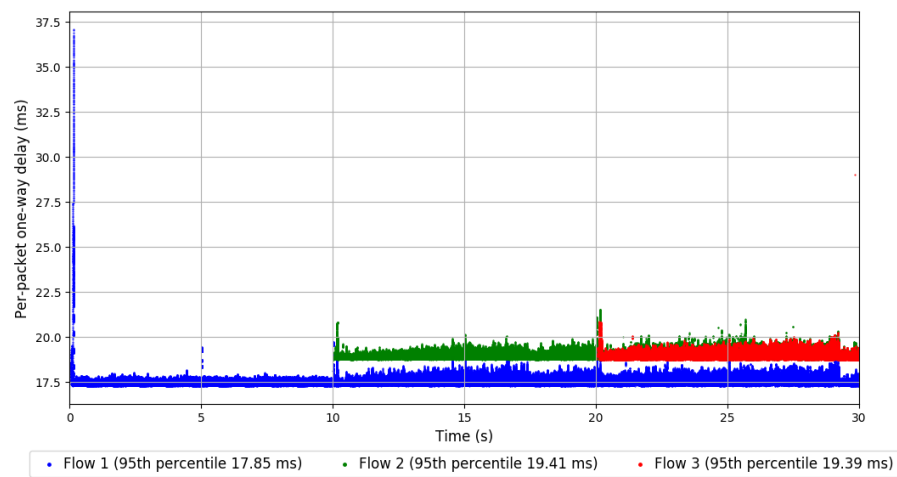
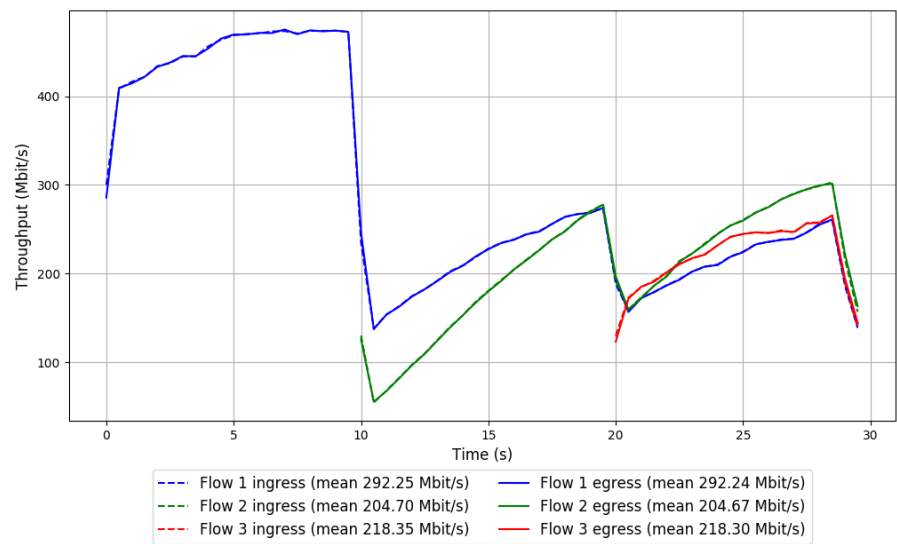
-- Flow 3:

Average throughput: 218.30 Mbit/s

95th percentile per-packet one-way delay: 19.387 ms

Loss rate: 0.02%

Run 6: Report of TCP Vegas — Data Link



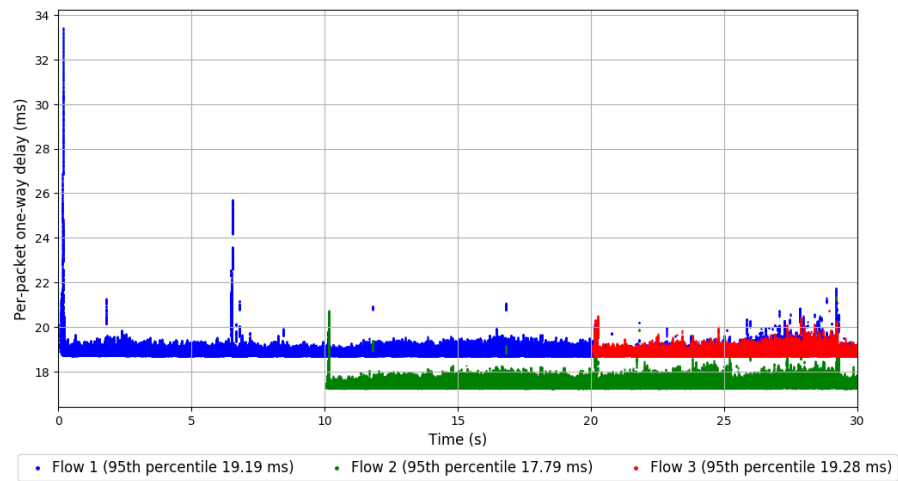
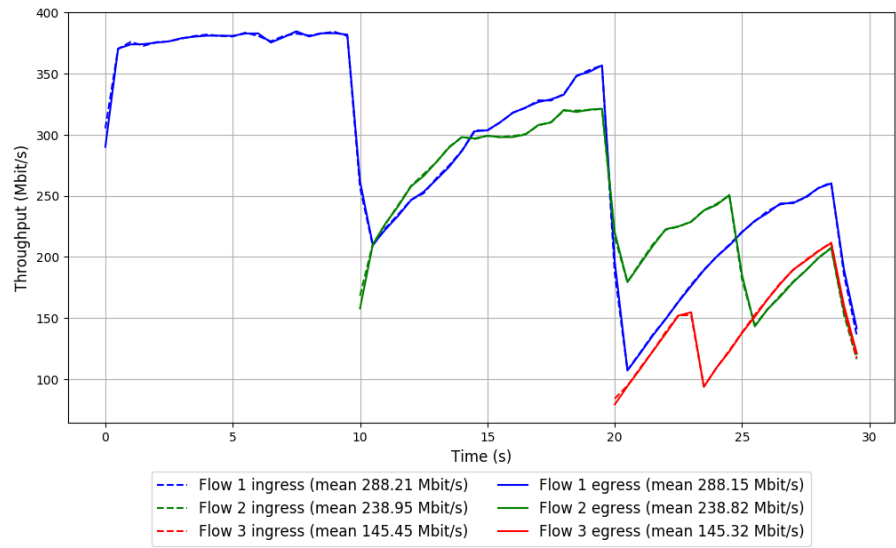
Run 7: Statistics of TCP Vegas

Start at: 2018-01-10 05:35:55  
End at: 2018-01-10 05:36:25  
Local clock offset: 0.931 ms  
Remote clock offset: -2.064 ms

# Below is generated by plot.py at 2018-01-10 11:57:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 495.43 Mbit/s  
95th percentile per-packet one-way delay: 19.153 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 288.15 Mbit/s  
95th percentile per-packet one-way delay: 19.190 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 238.82 Mbit/s  
95th percentile per-packet one-way delay: 17.787 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 145.32 Mbit/s  
95th percentile per-packet one-way delay: 19.276 ms  
Loss rate: 0.09%



# Run 7: Report of TCP Vegas — Data Link

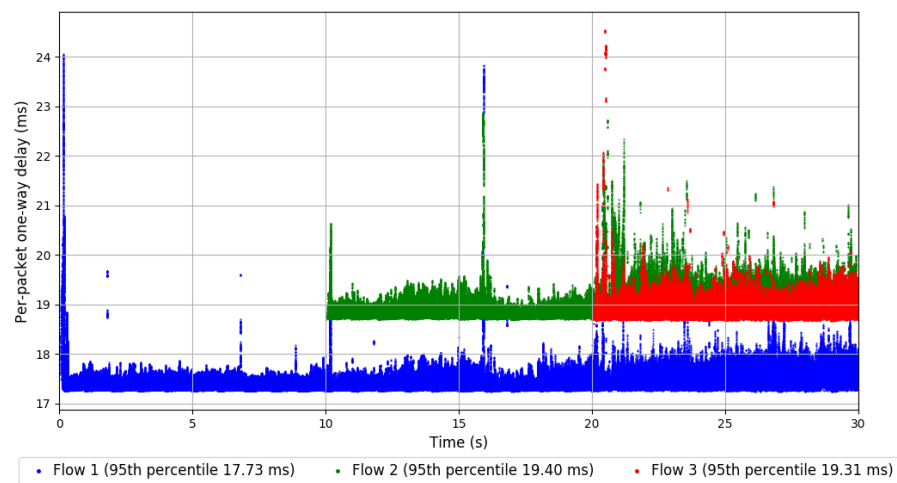
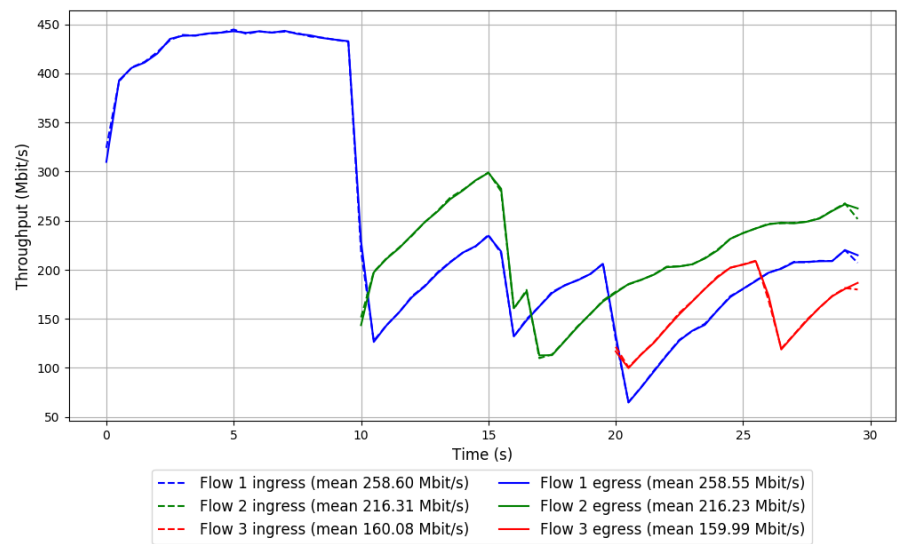


Run 8: Statistics of TCP Vegas

Start at: 2018-01-10 05:57:48  
End at: 2018-01-10 05:58:18  
Local clock offset: 0.701 ms  
Remote clock offset: -2.077 ms

```
# Below is generated by plot.py at 2018-01-10 11:57:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 455.64 Mbit/s
95th percentile per-packet one-way delay: 19.232 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 258.55 Mbit/s
95th percentile per-packet one-way delay: 17.729 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 216.23 Mbit/s
95th percentile per-packet one-way delay: 19.403 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 159.99 Mbit/s
95th percentile per-packet one-way delay: 19.309 ms
Loss rate: 0.05%
```

Run 8: Report of TCP Vegas — Data Link

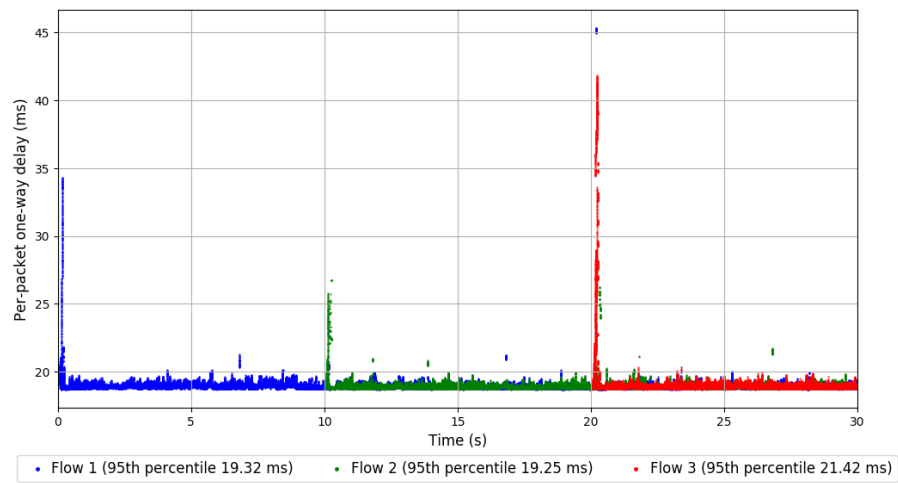
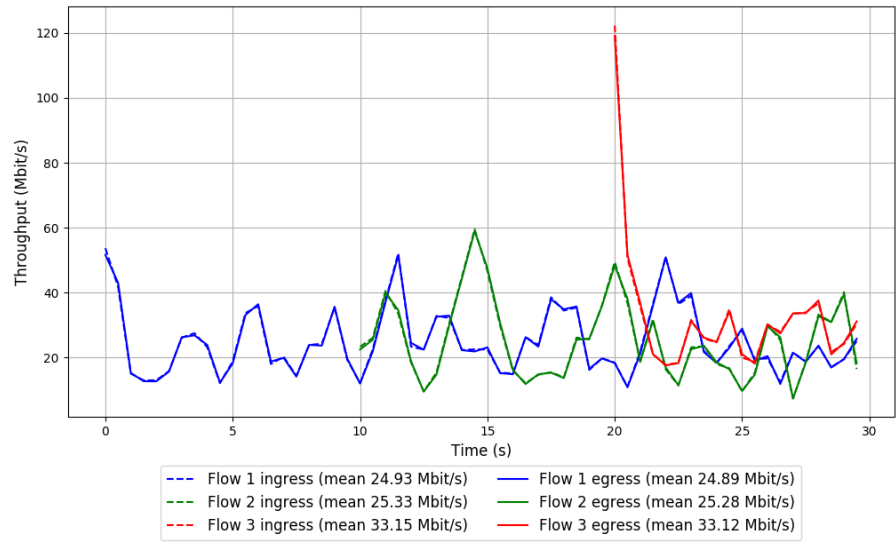


Run 9: Statistics of TCP Vegas

Start at: 2018-01-10 06:19:29  
End at: 2018-01-10 06:19:59  
Local clock offset: 0.151 ms  
Remote clock offset: -2.332 ms

# Below is generated by plot.py at 2018-01-10 11:57:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 52.70 Mbit/s  
95th percentile per-packet one-way delay: 19.339 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 24.89 Mbit/s  
95th percentile per-packet one-way delay: 19.319 ms  
Loss rate: 0.17%  
-- Flow 2:  
Average throughput: 25.28 Mbit/s  
95th percentile per-packet one-way delay: 19.252 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 33.12 Mbit/s  
95th percentile per-packet one-way delay: 21.422 ms  
Loss rate: 0.12%

# Run 9: Report of TCP Vegas — Data Link

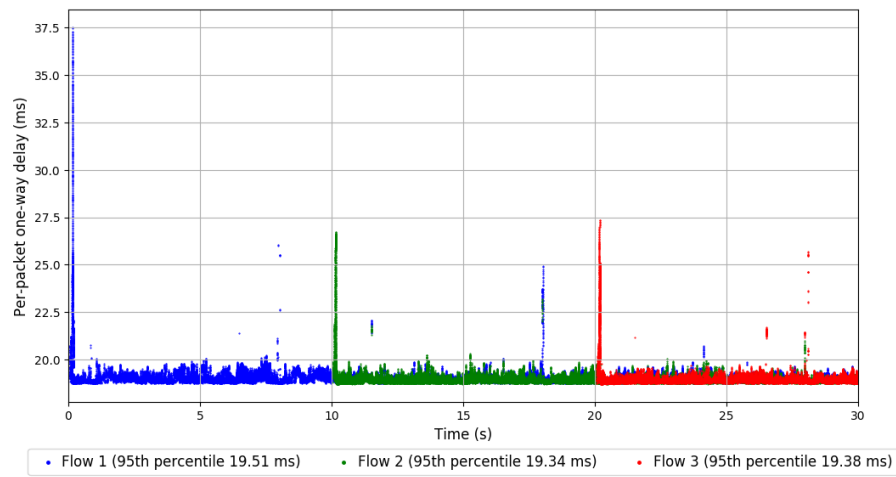
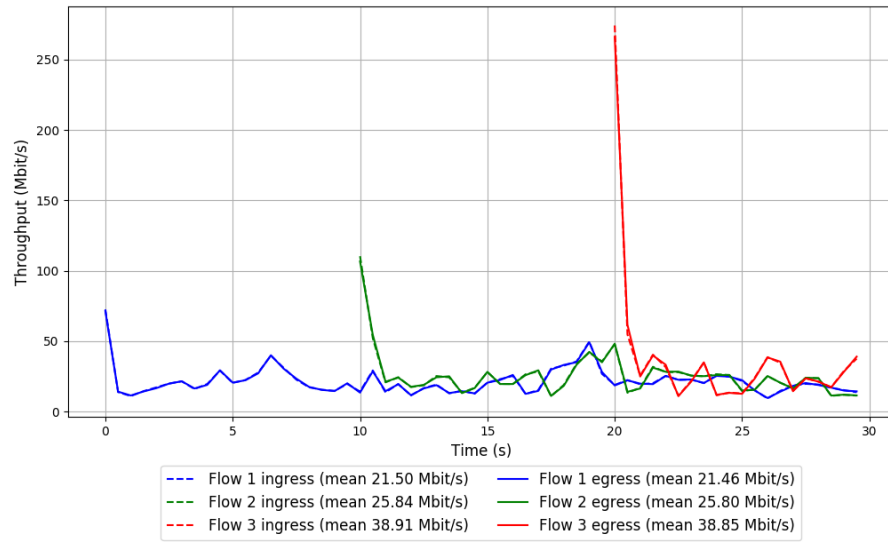


Run 10: Statistics of TCP Vegas

Start at: 2018-01-10 06:40:11  
End at: 2018-01-10 06:40:41  
Local clock offset: -0.02 ms  
Remote clock offset: -2.095 ms

# Below is generated by plot.py at 2018-01-10 11:57:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 51.50 Mbit/s  
95th percentile per-packet one-way delay: 19.446 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 21.46 Mbit/s  
95th percentile per-packet one-way delay: 19.514 ms  
Loss rate: 0.20%  
-- Flow 2:  
Average throughput: 25.80 Mbit/s  
95th percentile per-packet one-way delay: 19.344 ms  
Loss rate: 0.16%  
-- Flow 3:  
Average throughput: 38.85 Mbit/s  
95th percentile per-packet one-way delay: 19.384 ms  
Loss rate: 0.16%

# Run 10: Report of TCP Vegas — Data Link



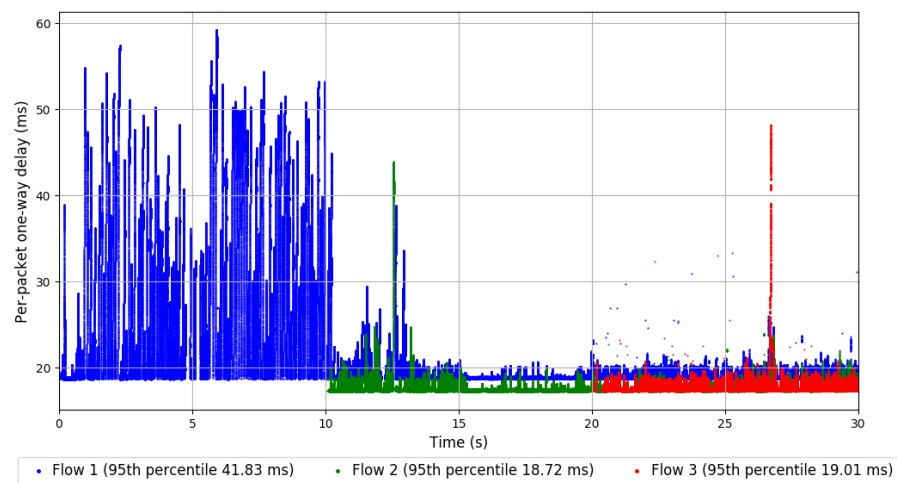
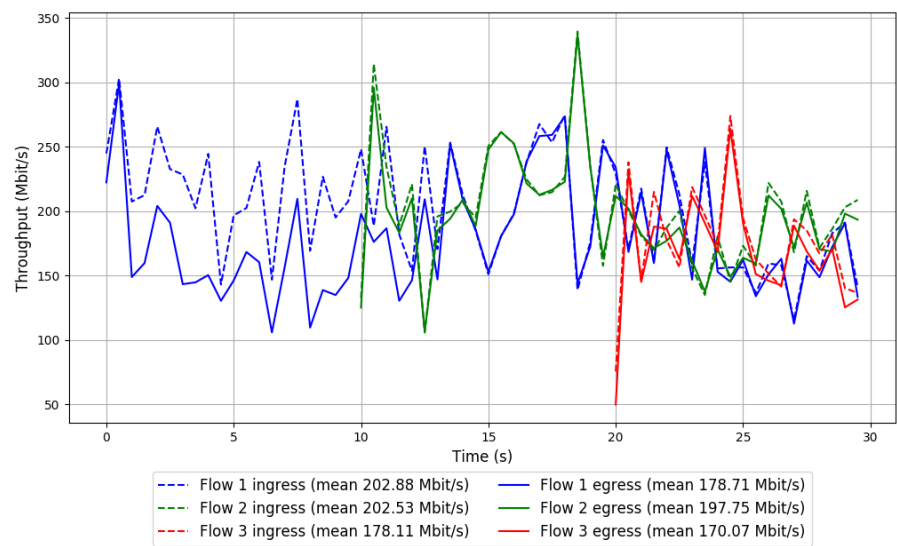
Run 1: Statistics of Verus

Start at: 2018-01-10 03:29:35  
End at: 2018-01-10 03:30:05  
Local clock offset: -0.61 ms  
Remote clock offset: -2.604 ms

# Below is generated by plot.py at 2018-01-10 11:57:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 366.45 Mbit/s  
95th percentile per-packet one-way delay: 32.309 ms  
Loss rate: 7.57%  
-- Flow 1:  
Average throughput: 178.71 Mbit/s  
95th percentile per-packet one-way delay: 41.828 ms  
Loss rate: 11.91%  
-- Flow 2:  
Average throughput: 197.75 Mbit/s  
95th percentile per-packet one-way delay: 18.720 ms  
Loss rate: 2.36%  
-- Flow 3:  
Average throughput: 170.07 Mbit/s  
95th percentile per-packet one-way delay: 19.007 ms  
Loss rate: 4.51%



Run 1: Report of Verus — Data Link

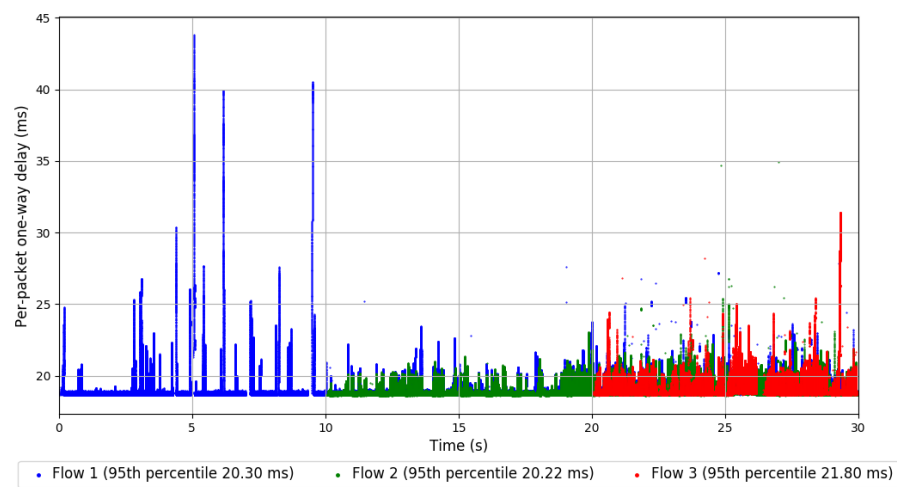
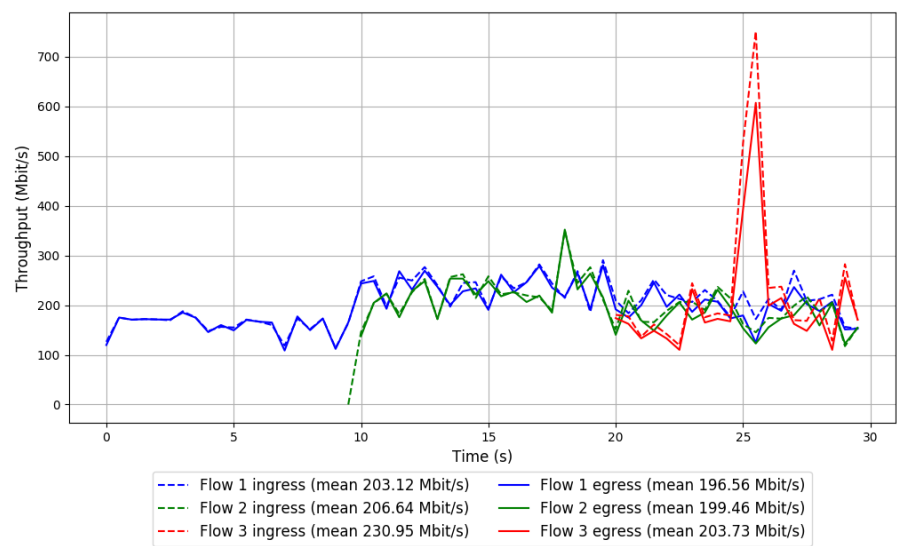


Run 2: Statistics of Verus

Start at: 2018-01-10 03:51:30  
End at: 2018-01-10 03:52:00  
Local clock offset: -0.3 ms  
Remote clock offset: -2.462 ms

# Below is generated by plot.py at 2018-01-10 11:57:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 396.90 Mbit/s  
95th percentile per-packet one-way delay: 20.490 ms  
Loss rate: 4.89%  
-- Flow 1:  
Average throughput: 196.56 Mbit/s  
95th percentile per-packet one-way delay: 20.300 ms  
Loss rate: 3.23%  
-- Flow 2:  
Average throughput: 199.46 Mbit/s  
95th percentile per-packet one-way delay: 20.218 ms  
Loss rate: 3.49%  
-- Flow 3:  
Average throughput: 203.73 Mbit/s  
95th percentile per-packet one-way delay: 21.801 ms  
Loss rate: 11.81%

Run 2: Report of Verus — Data Link

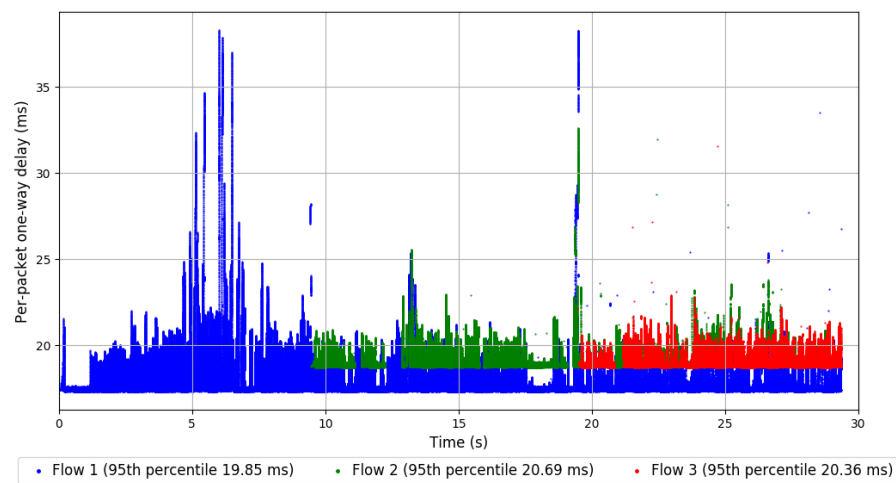
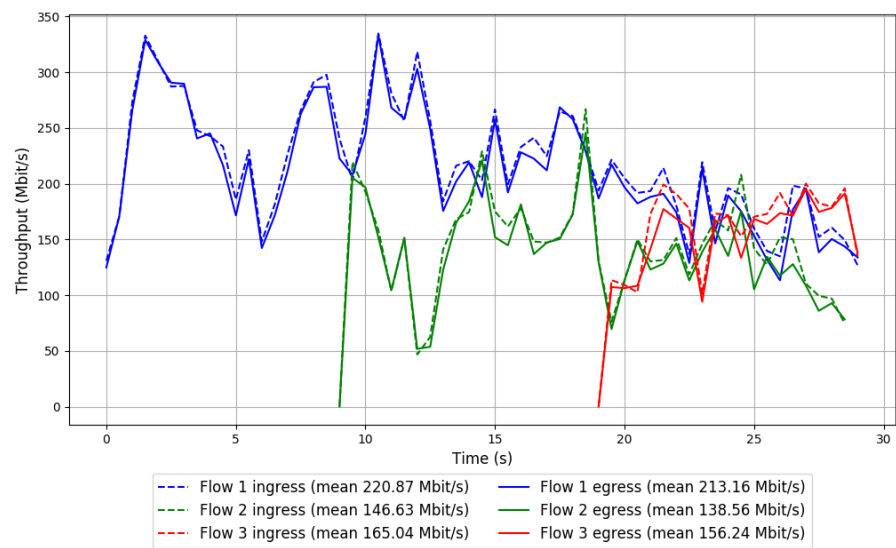


Run 3: Statistics of Verus

Start at: 2018-01-10 04:13:19  
End at: 2018-01-10 04:13:49  
Local clock offset: 0.32 ms  
Remote clock offset: -2.502 ms

# Below is generated by plot.py at 2018-01-10 11:57:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 357.35 Mbit/s  
95th percentile per-packet one-way delay: 20.338 ms  
Loss rate: 4.29%  
-- Flow 1:  
Average throughput: 213.16 Mbit/s  
95th percentile per-packet one-way delay: 19.850 ms  
Loss rate: 3.49%  
-- Flow 2:  
Average throughput: 138.56 Mbit/s  
95th percentile per-packet one-way delay: 20.687 ms  
Loss rate: 5.50%  
-- Flow 3:  
Average throughput: 156.24 Mbit/s  
95th percentile per-packet one-way delay: 20.365 ms  
Loss rate: 5.36%

Run 3: Report of Verus — Data Link

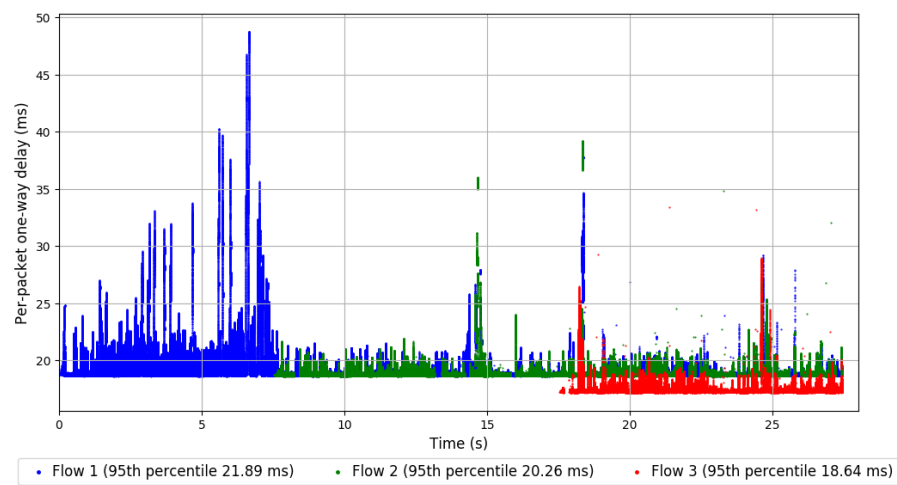
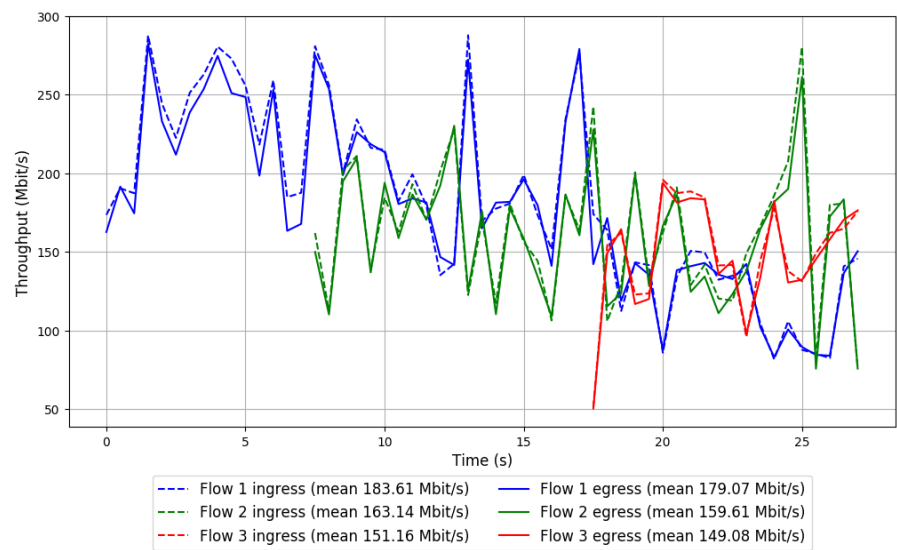


Run 4: Statistics of Verus

Start at: 2018-01-10 04:35:12  
End at: 2018-01-10 04:35:42  
Local clock offset: 0.939 ms  
Remote clock offset: -2.137 ms

# Below is generated by plot.py at 2018-01-10 11:57:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 348.82 Mbit/s  
95th percentile per-packet one-way delay: 20.963 ms  
Loss rate: 2.20%  
-- Flow 1:  
Average throughput: 179.07 Mbit/s  
95th percentile per-packet one-way delay: 21.888 ms  
Loss rate: 2.47%  
-- Flow 2:  
Average throughput: 159.61 Mbit/s  
95th percentile per-packet one-way delay: 20.260 ms  
Loss rate: 2.16%  
-- Flow 3:  
Average throughput: 149.08 Mbit/s  
95th percentile per-packet one-way delay: 18.637 ms  
Loss rate: 1.38%

Run 4: Report of Verus — Data Link



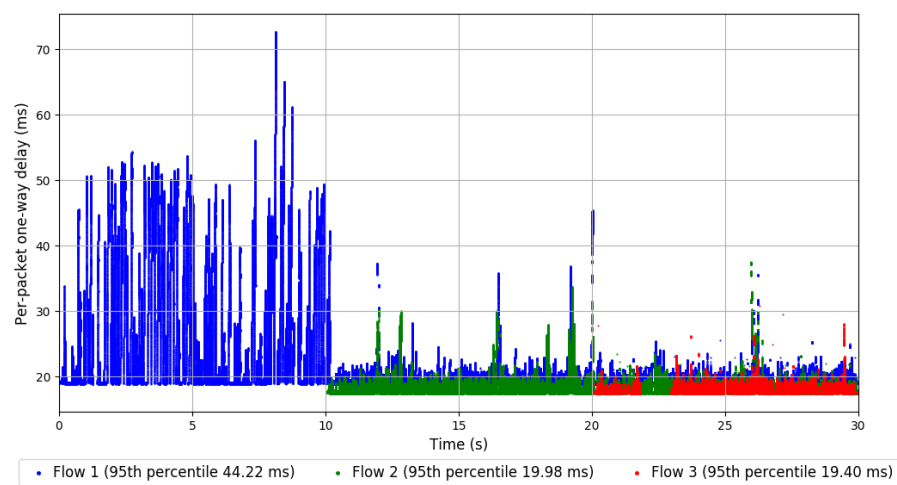
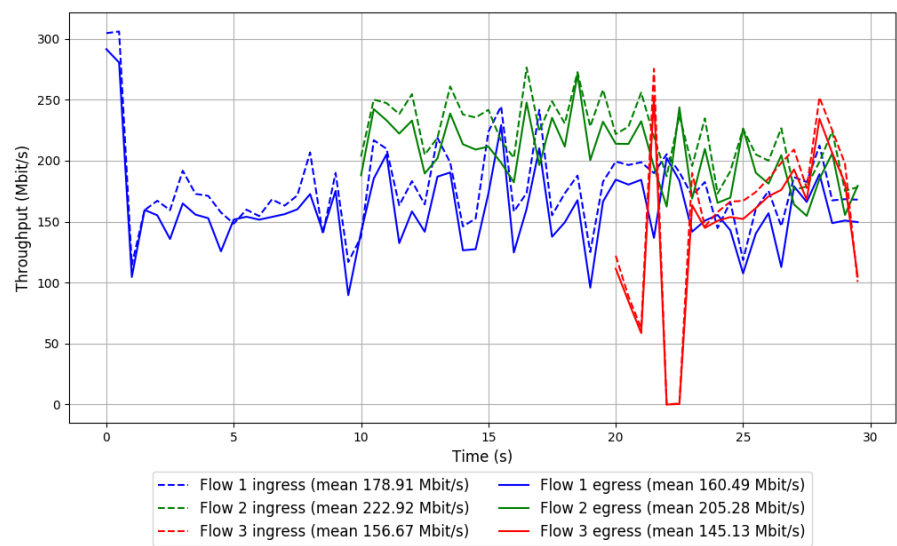
Run 5: Statistics of Verus

Start at: 2018-01-10 04:57:03  
End at: 2018-01-10 04:57:33  
Local clock offset: 1.106 ms  
Remote clock offset: -2.522 ms

# Below is generated by plot.py at 2018-01-10 11:58:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 345.04 Mbit/s  
95th percentile per-packet one-way delay: 33.879 ms  
Loss rate: 8.98%  
-- Flow 1:  
Average throughput: 160.49 Mbit/s  
95th percentile per-packet one-way delay: 44.217 ms  
Loss rate: 10.30%  
-- Flow 2:  
Average throughput: 205.28 Mbit/s  
95th percentile per-packet one-way delay: 19.983 ms  
Loss rate: 7.93%  
-- Flow 3:  
Average throughput: 145.13 Mbit/s  
95th percentile per-packet one-way delay: 19.403 ms  
Loss rate: 7.37%



Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-10 05:18:42

End at: 2018-01-10 05:19:12

Local clock offset: 1.294 ms

Remote clock offset: -2.25 ms

# Below is generated by plot.py at 2018-01-10 12:01:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 373.95 Mbit/s

95th percentile per-packet one-way delay: 20.138 ms

Loss rate: 1.88%

-- Flow 1:

Average throughput: 197.39 Mbit/s

95th percentile per-packet one-way delay: 19.813 ms

Loss rate: 2.00%

-- Flow 2:

Average throughput: 188.81 Mbit/s

95th percentile per-packet one-way delay: 20.310 ms

Loss rate: 1.92%

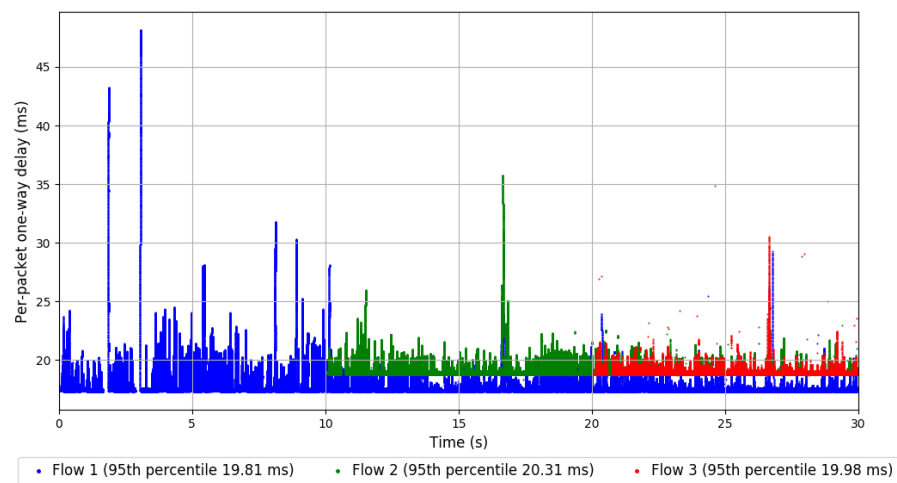
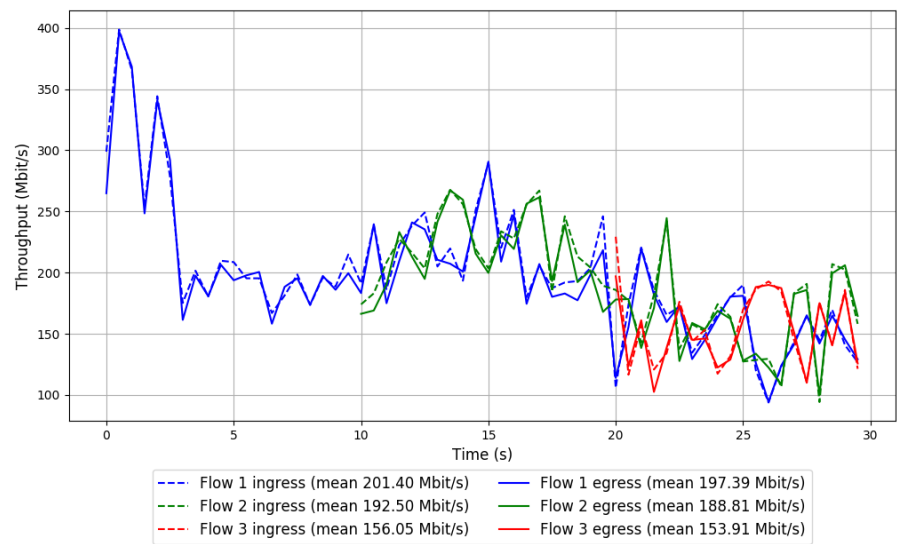
-- Flow 3:

Average throughput: 153.91 Mbit/s

95th percentile per-packet one-way delay: 19.982 ms

Loss rate: 1.33%

Run 6: Report of Verus — Data Link

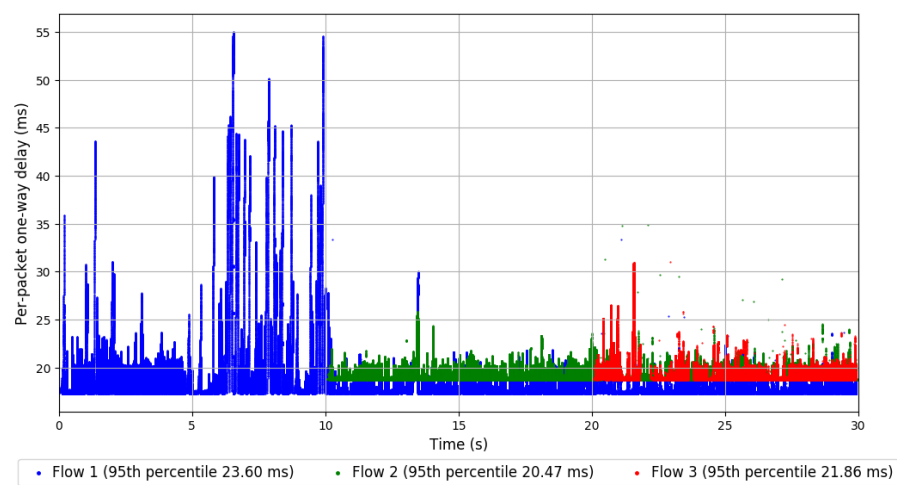
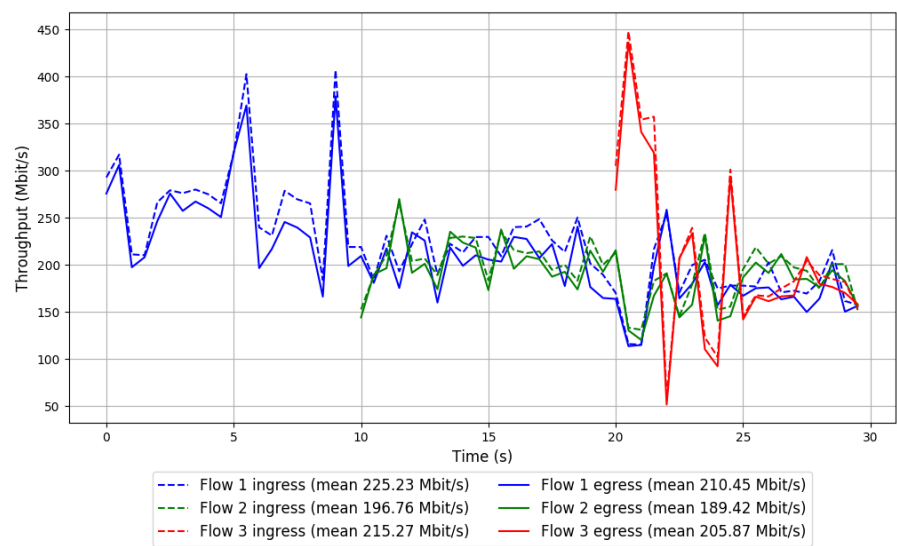


Run 7: Statistics of Verus

Start at: 2018-01-10 05:40:35  
End at: 2018-01-10 05:41:05  
Local clock offset: 0.937 ms  
Remote clock offset: -1.898 ms

# Below is generated by plot.py at 2018-01-10 12:06:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 403.99 Mbit/s  
95th percentile per-packet one-way delay: 21.464 ms  
Loss rate: 5.33%  
-- Flow 1:  
Average throughput: 210.45 Mbit/s  
95th percentile per-packet one-way delay: 23.604 ms  
Loss rate: 6.56%  
-- Flow 2:  
Average throughput: 189.42 Mbit/s  
95th percentile per-packet one-way delay: 20.471 ms  
Loss rate: 3.73%  
-- Flow 3:  
Average throughput: 205.87 Mbit/s  
95th percentile per-packet one-way delay: 21.865 ms  
Loss rate: 4.35%

Run 7: Report of Verus — Data Link

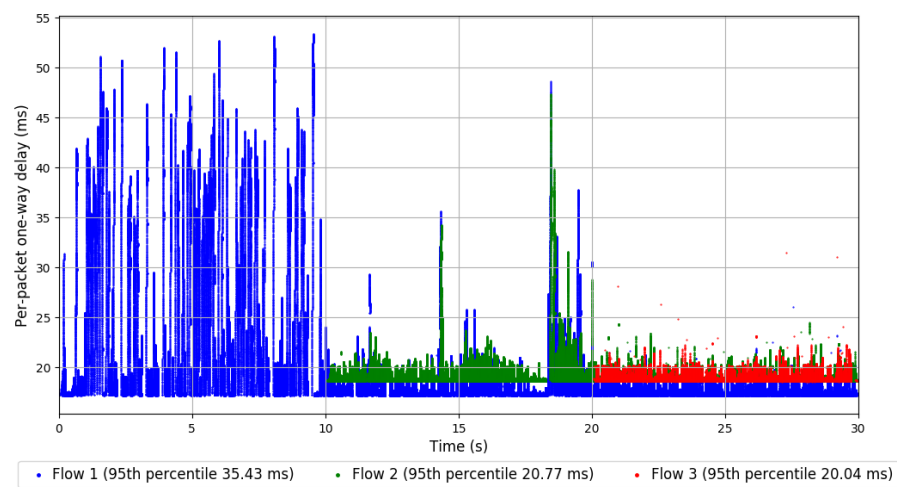
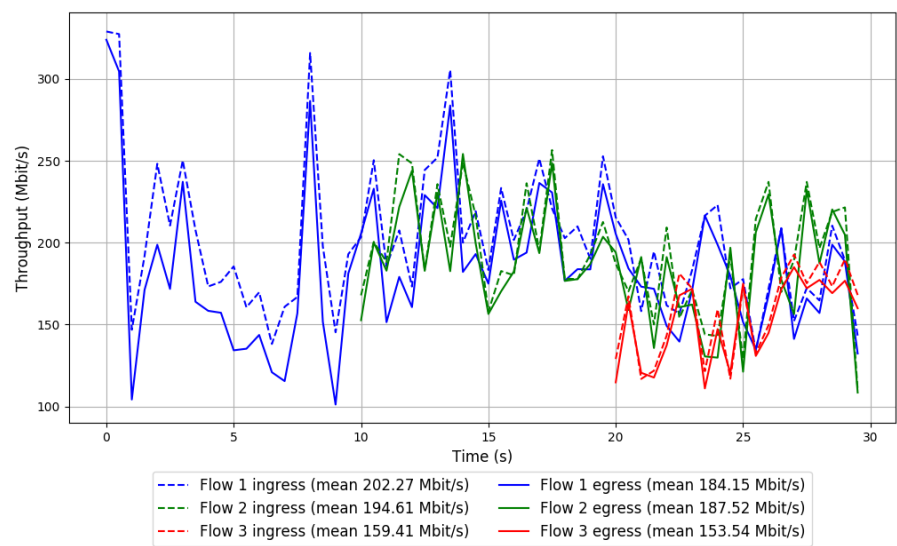


Run 8: Statistics of Verus

Start at: 2018-01-10 06:02:30  
End at: 2018-01-10 06:03:00  
Local clock offset: 0.564 ms  
Remote clock offset: -2.131 ms

# Below is generated by plot.py at 2018-01-10 12:06:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 359.52 Mbit/s  
95th percentile per-packet one-way delay: 27.005 ms  
Loss rate: 6.45%  
-- Flow 1:  
Average throughput: 184.15 Mbit/s  
95th percentile per-packet one-way delay: 35.433 ms  
Loss rate: 8.96%  
-- Flow 2:  
Average throughput: 187.52 Mbit/s  
95th percentile per-packet one-way delay: 20.772 ms  
Loss rate: 3.64%  
-- Flow 3:  
Average throughput: 153.54 Mbit/s  
95th percentile per-packet one-way delay: 20.035 ms  
Loss rate: 3.68%

Run 8: Report of Verus — Data Link



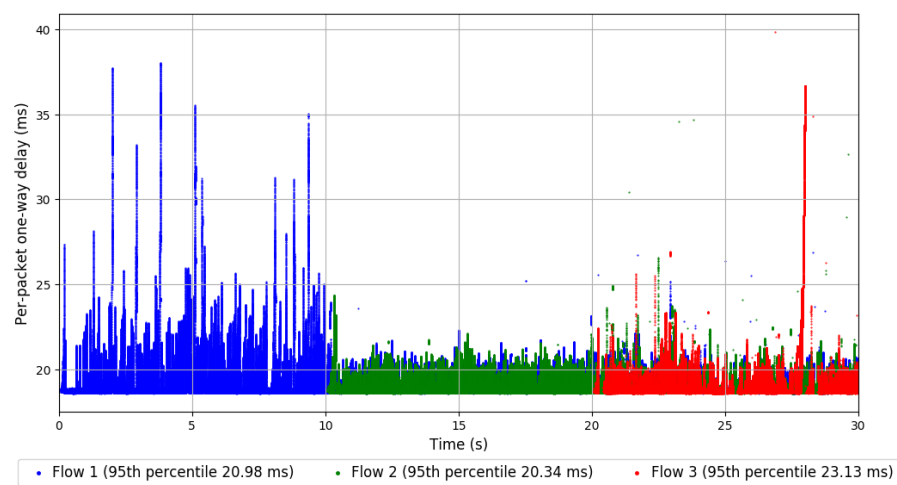
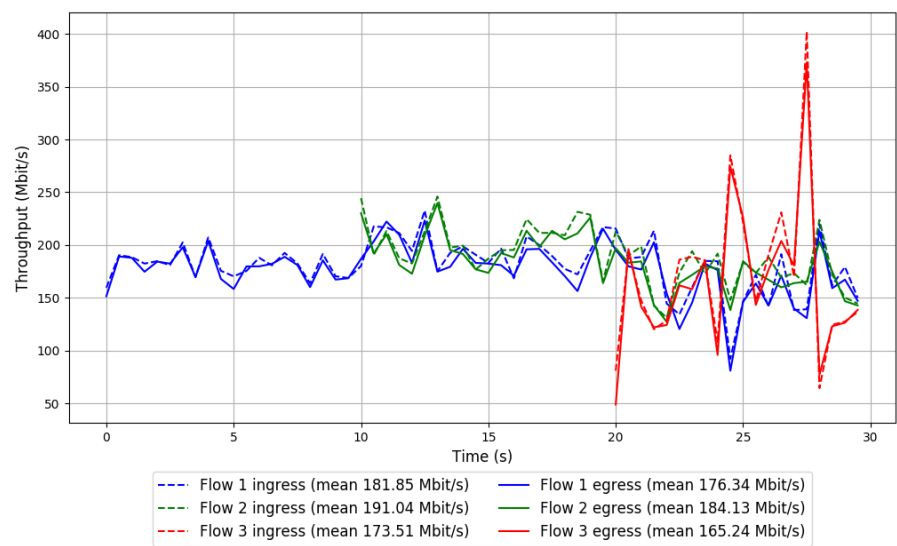
Run 9: Statistics of Verus

Start at: 2018-01-10 06:23:32  
End at: 2018-01-10 06:24:02  
Local clock offset: 0.168 ms  
Remote clock offset: -2.313 ms

# Below is generated by plot.py at 2018-01-10 12:06:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 353.50 Mbit/s  
95th percentile per-packet one-way delay: 20.845 ms  
Loss rate: 3.50%  
-- Flow 1:  
Average throughput: 176.34 Mbit/s  
95th percentile per-packet one-way delay: 20.981 ms  
Loss rate: 3.03%  
-- Flow 2:  
Average throughput: 184.13 Mbit/s  
95th percentile per-packet one-way delay: 20.345 ms  
Loss rate: 3.62%  
-- Flow 3:  
Average throughput: 165.24 Mbit/s  
95th percentile per-packet one-way delay: 23.132 ms  
Loss rate: 4.73%



Run 9: Report of Verus — Data Link

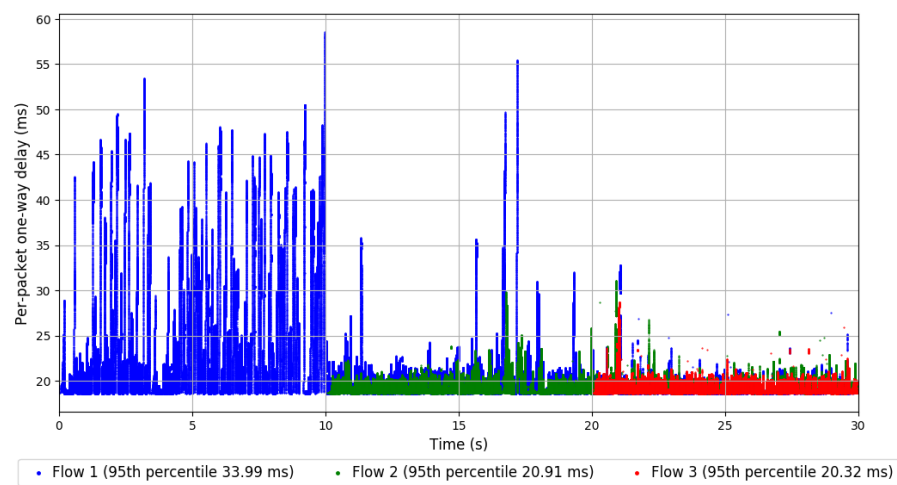
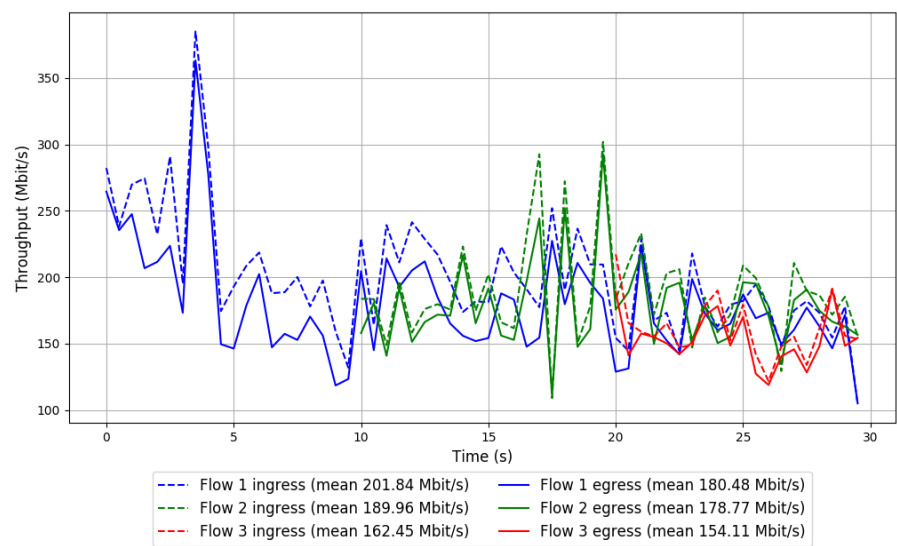


Run 10: Statistics of Verus

Start at: 2018-01-10 06:44:13  
End at: 2018-01-10 06:44:43  
Local clock offset: -0.022 ms  
Remote clock offset: -2.312 ms

# Below is generated by plot.py at 2018-01-10 12:06:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 350.21 Mbit/s  
95th percentile per-packet one-way delay: 27.411 ms  
Loss rate: 8.26%  
-- Flow 1:  
Average throughput: 180.48 Mbit/s  
95th percentile per-packet one-way delay: 33.987 ms  
Loss rate: 10.58%  
-- Flow 2:  
Average throughput: 178.77 Mbit/s  
95th percentile per-packet one-way delay: 20.914 ms  
Loss rate: 5.89%  
-- Flow 3:  
Average throughput: 154.11 Mbit/s  
95th percentile per-packet one-way delay: 20.325 ms  
Loss rate: 5.13%

Run 10: Report of Verus — Data Link

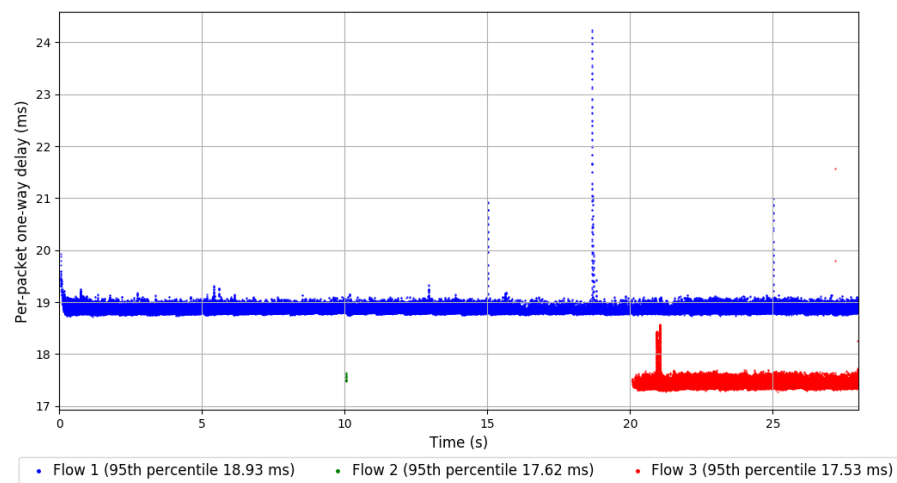
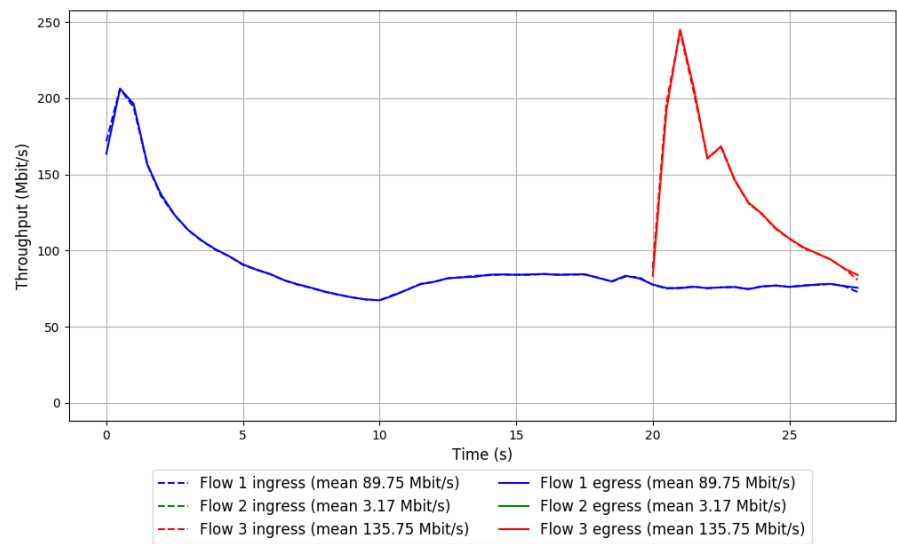


Run 1: Statistics of Copa

Start at: 2018-01-10 03:13:56  
End at: 2018-01-10 03:14:26  
Local clock offset: -1.007 ms  
Remote clock offset: -2.693 ms

# Below is generated by plot.py at 2018-01-10 12:06:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 128.17 Mbit/s  
95th percentile per-packet one-way delay: 18.917 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 89.75 Mbit/s  
95th percentile per-packet one-way delay: 18.935 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 3.17 Mbit/s  
95th percentile per-packet one-way delay: 17.620 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 135.75 Mbit/s  
95th percentile per-packet one-way delay: 17.526 ms  
Loss rate: 0.00%

Run 1: Report of Copa — Data Link

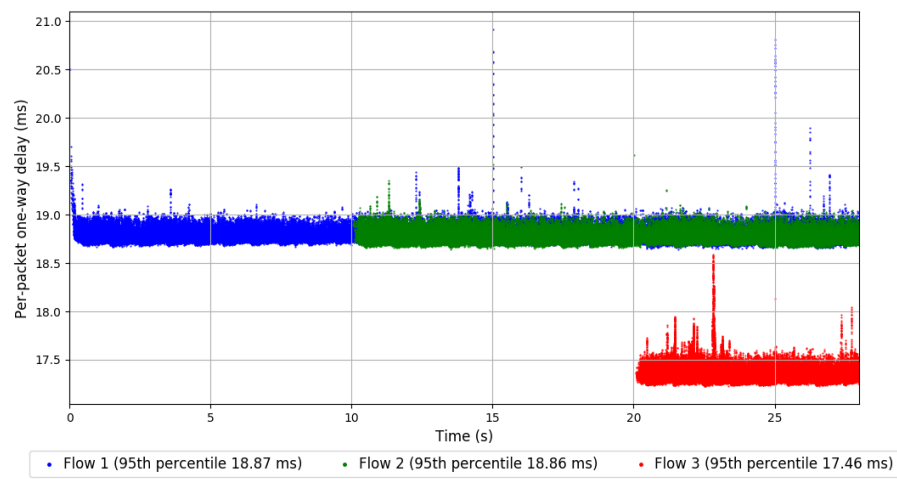
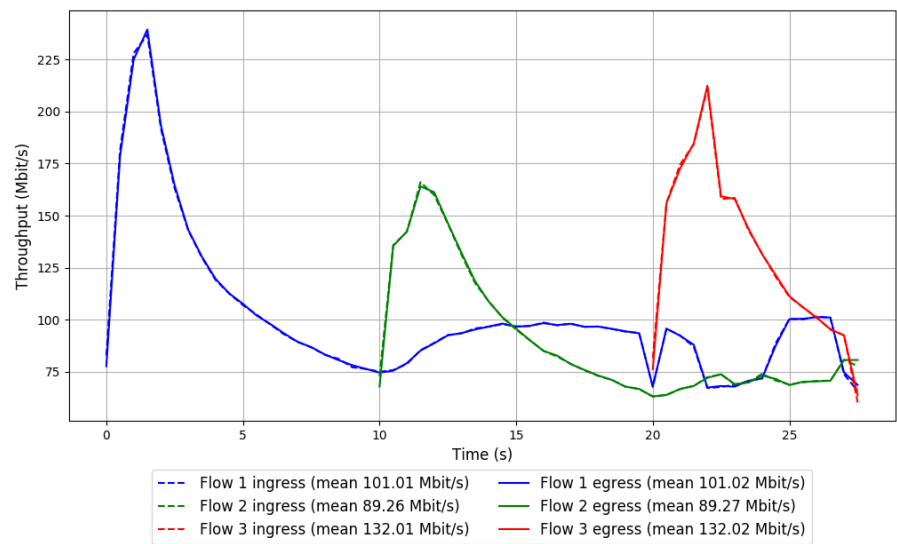


Run 2: Statistics of Copa

Start at: 2018-01-10 03:35:39  
End at: 2018-01-10 03:36:09  
Local clock offset: -0.623 ms  
Remote clock offset: -2.728 ms

# Below is generated by plot.py at 2018-01-10 12:06:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 195.53 Mbit/s  
95th percentile per-packet one-way delay: 18.855 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 101.02 Mbit/s  
95th percentile per-packet one-way delay: 18.869 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 89.27 Mbit/s  
95th percentile per-packet one-way delay: 18.858 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 132.02 Mbit/s  
95th percentile per-packet one-way delay: 17.456 ms  
Loss rate: 0.00%

Run 2: Report of Copa — Data Link



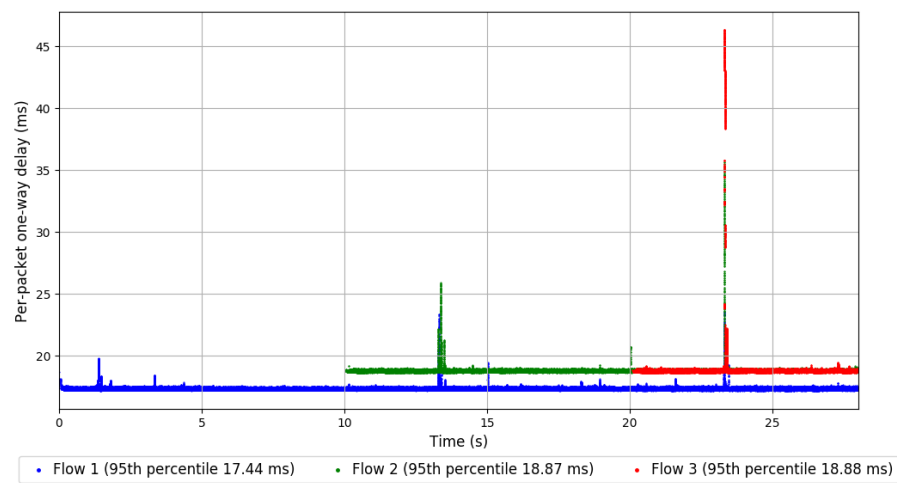
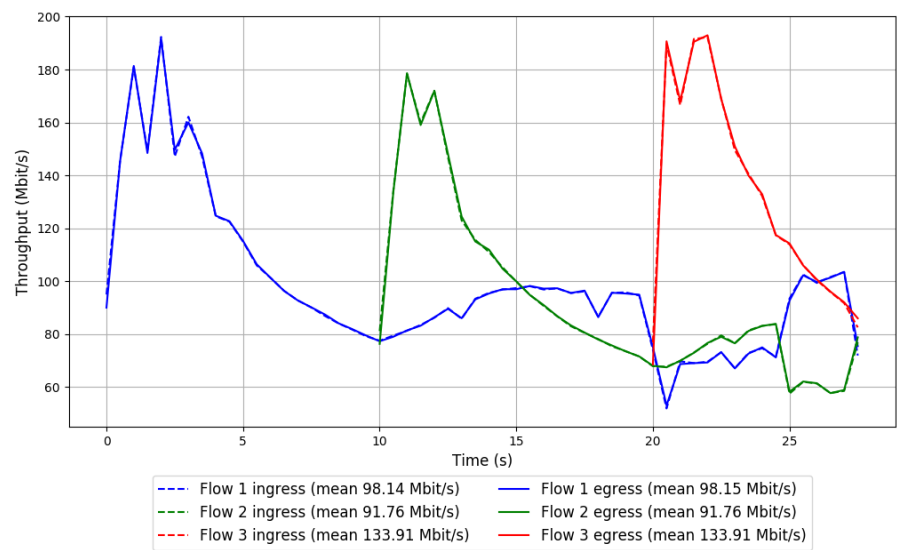
Run 3: Statistics of Copa

Start at: 2018-01-10 03:57:39  
End at: 2018-01-10 03:58:09  
Local clock offset: -0.078 ms  
Remote clock offset: -2.279 ms

# Below is generated by plot.py at 2018-01-10 12:07:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 194.88 Mbit/s  
95th percentile per-packet one-way delay: 18.835 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 98.15 Mbit/s  
95th percentile per-packet one-way delay: 17.443 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 91.76 Mbit/s  
95th percentile per-packet one-way delay: 18.867 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 133.91 Mbit/s  
95th percentile per-packet one-way delay: 18.876 ms  
Loss rate: 0.00%



Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-10 04:19:32

End at: 2018-01-10 04:20:02

Local clock offset: 0.587 ms

Remote clock offset: -2.37 ms

# Below is generated by plot.py at 2018-01-10 12:10:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 188.94 Mbit/s

95th percentile per-packet one-way delay: 18.806 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 89.68 Mbit/s

95th percentile per-packet one-way delay: 18.826 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 101.18 Mbit/s

95th percentile per-packet one-way delay: 18.801 ms

Loss rate: 0.00%

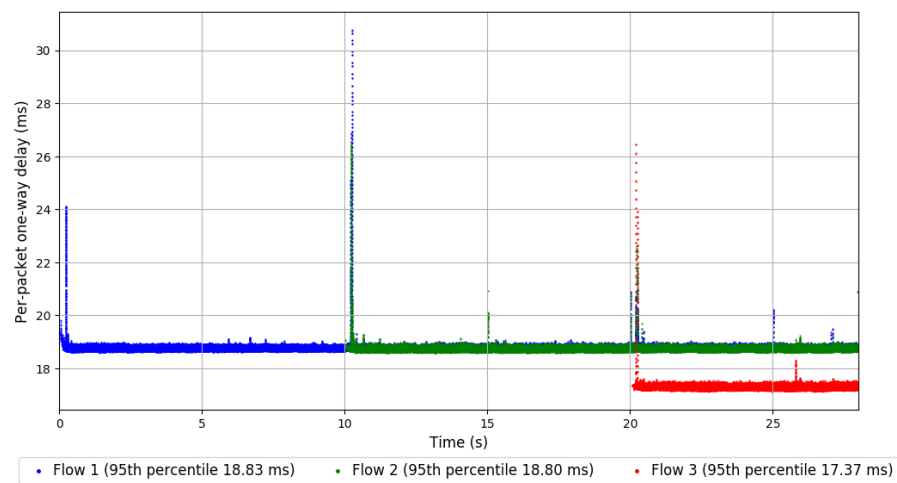
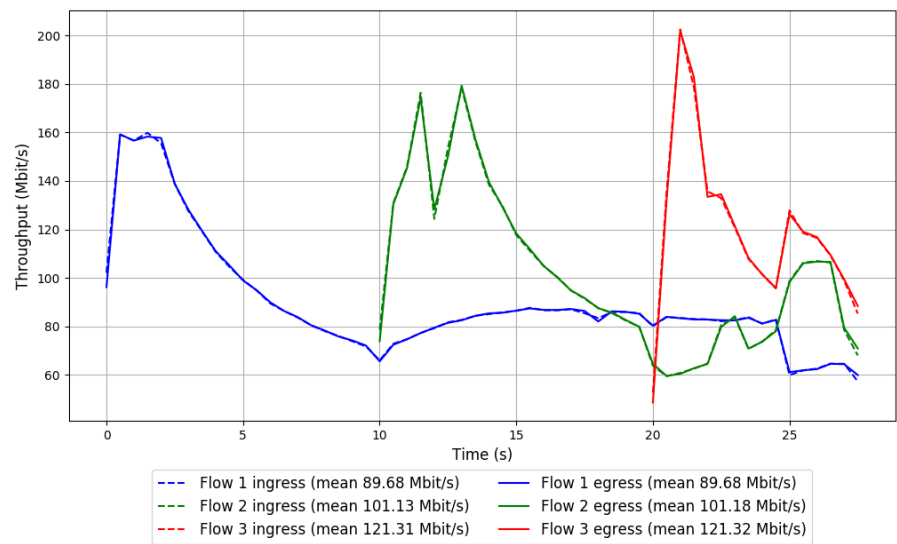
-- Flow 3:

Average throughput: 121.32 Mbit/s

95th percentile per-packet one-way delay: 17.372 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link

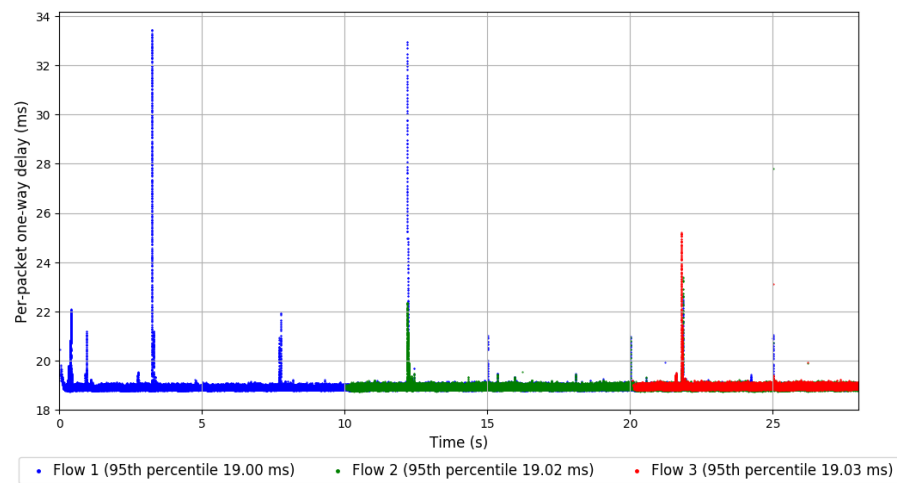
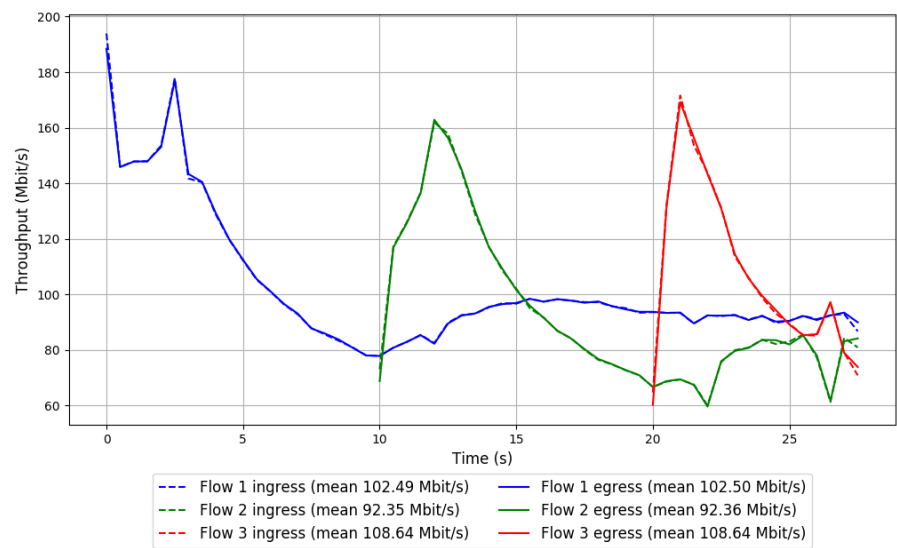


Run 5: Statistics of Copa

Start at: 2018-01-10 04:41:20  
End at: 2018-01-10 04:41:50  
Local clock offset: 0.937 ms  
Remote clock offset: -2.223 ms

```
# Below is generated by plot.py at 2018-01-10 12:11:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 192.44 Mbit/s
95th percentile per-packet one-way delay: 19.010 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 102.50 Mbit/s
95th percentile per-packet one-way delay: 18.997 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 92.36 Mbit/s
95th percentile per-packet one-way delay: 19.016 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 108.64 Mbit/s
95th percentile per-packet one-way delay: 19.029 ms
Loss rate: 0.00%
```

Run 5: Report of Copa — Data Link

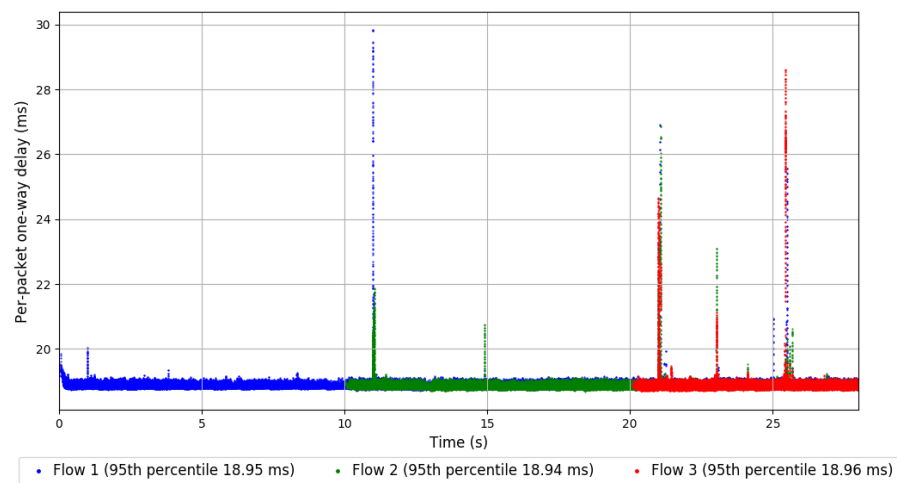
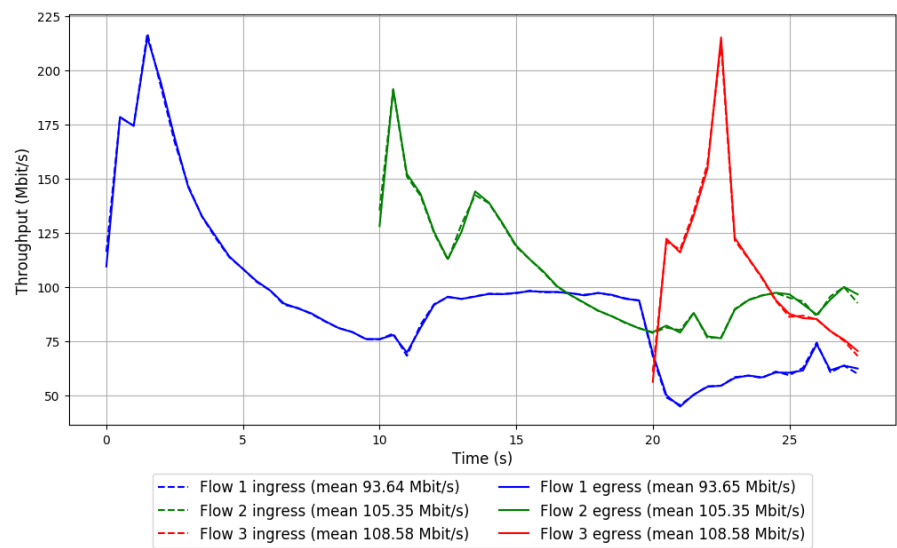


Run 6: Statistics of Copa

Start at: 2018-01-10 05:03:01  
End at: 2018-01-10 05:03:31  
Local clock offset: 1.145 ms  
Remote clock offset: -2.532 ms

```
# Below is generated by plot.py at 2018-01-10 12:15:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 191.95 Mbit/s
95th percentile per-packet one-way delay: 18.952 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 93.65 Mbit/s
95th percentile per-packet one-way delay: 18.955 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 105.35 Mbit/s
95th percentile per-packet one-way delay: 18.944 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 108.58 Mbit/s
95th percentile per-packet one-way delay: 18.962 ms
Loss rate: 0.00%
```

Run 6: Report of Copa — Data Link



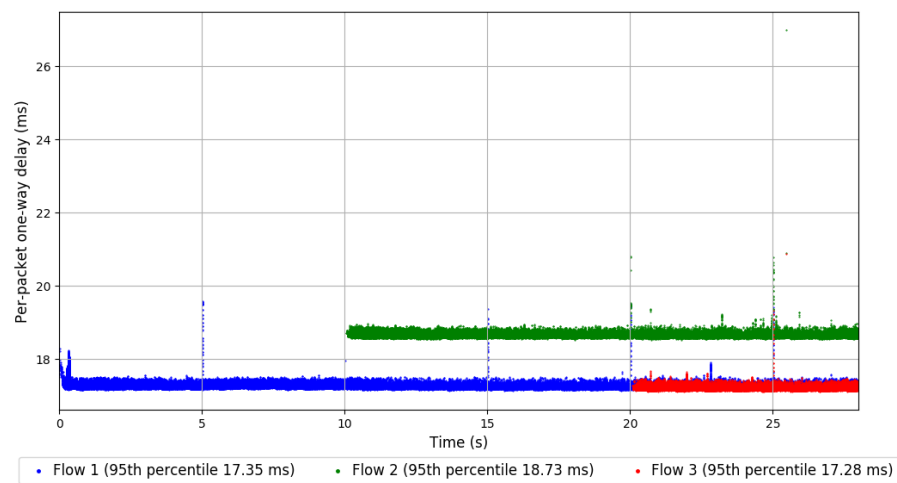
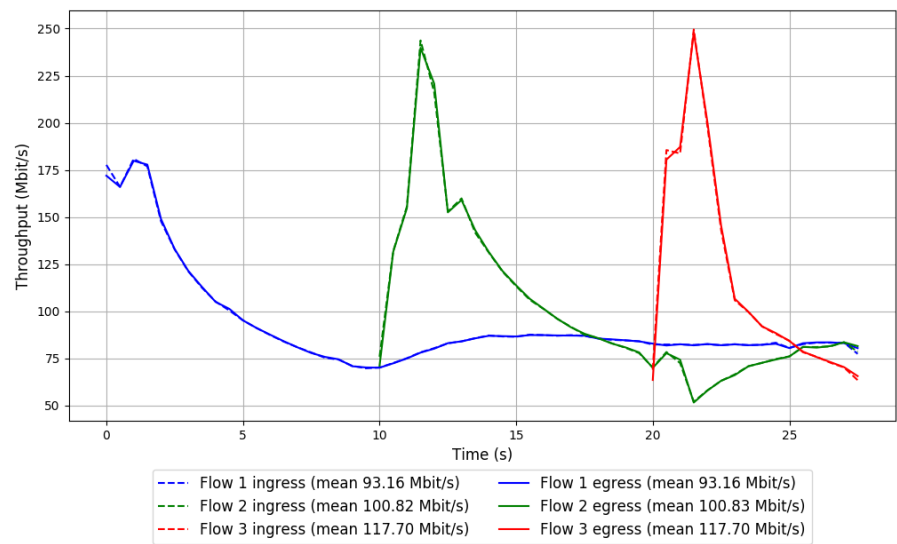
Run 7: Statistics of Copa

Start at: 2018-01-10 05:24:50  
End at: 2018-01-10 05:25:20  
Local clock offset: 1.238 ms  
Remote clock offset: -2.201 ms

# Below is generated by plot.py at 2018-01-10 12:15:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 191.05 Mbit/s  
95th percentile per-packet one-way delay: 18.684 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 93.16 Mbit/s  
95th percentile per-packet one-way delay: 17.346 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 100.83 Mbit/s  
95th percentile per-packet one-way delay: 18.725 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 117.70 Mbit/s  
95th percentile per-packet one-way delay: 17.282 ms  
Loss rate: 0.00%



Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-10 05:46:47

End at: 2018-01-10 05:47:17

Local clock offset: 0.791 ms

Remote clock offset: -1.81 ms

# Below is generated by plot.py at 2018-01-10 12:15:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 198.70 Mbit/s

95th percentile per-packet one-way delay: 18.967 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 98.74 Mbit/s

95th percentile per-packet one-way delay: 18.955 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 110.67 Mbit/s

95th percentile per-packet one-way delay: 18.997 ms

Loss rate: 0.01%

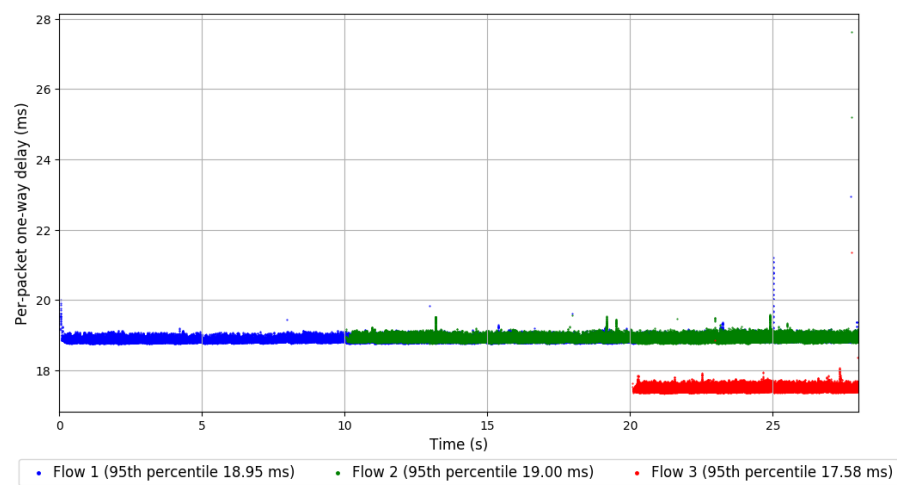
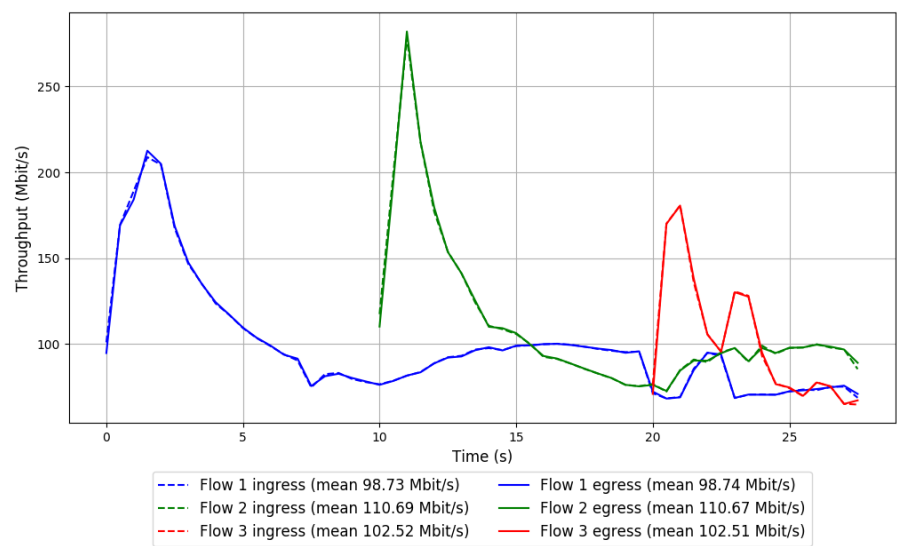
-- Flow 3:

Average throughput: 102.51 Mbit/s

95th percentile per-packet one-way delay: 17.576 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link

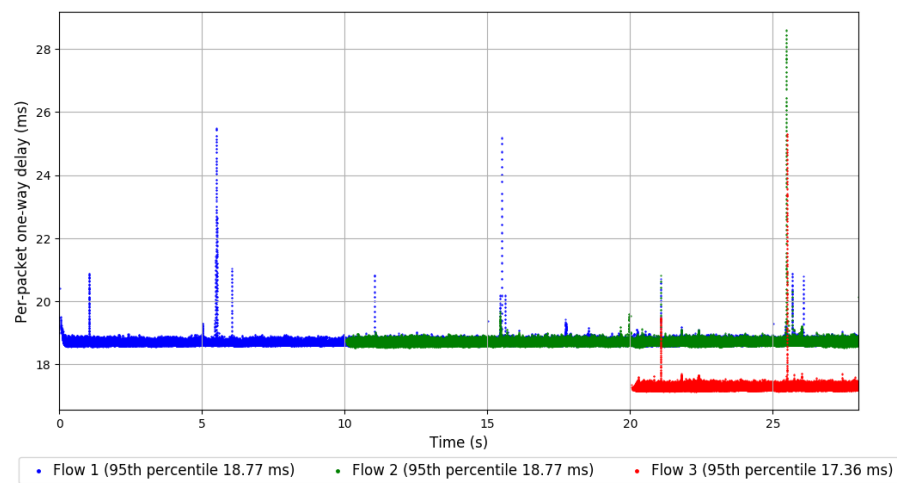
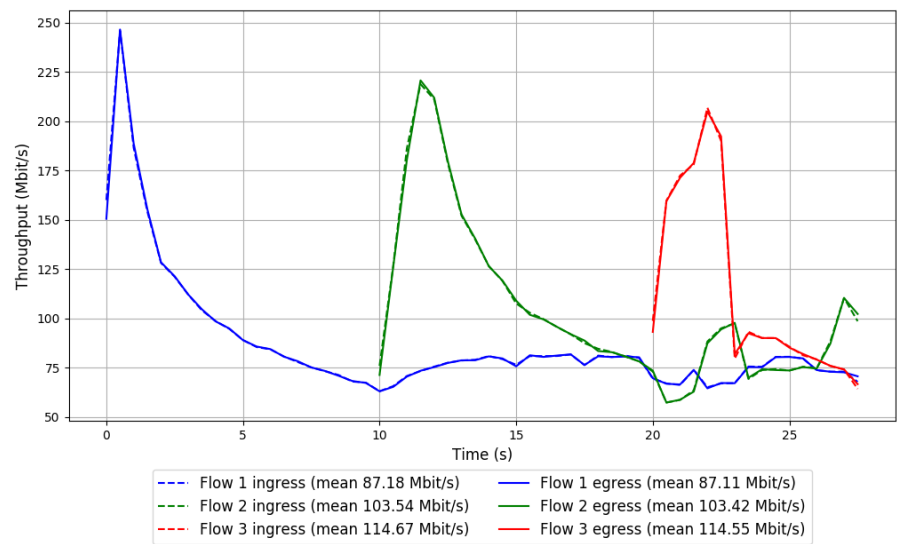


Run 9: Statistics of Copa

Start at: 2018-01-10 06:08:41  
End at: 2018-01-10 06:09:11  
Local clock offset: 0.437 ms  
Remote clock offset: -2.345 ms

# Below is generated by plot.py at 2018-01-10 12:15:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 186.01 Mbit/s  
95th percentile per-packet one-way delay: 18.764 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 87.11 Mbit/s  
95th percentile per-packet one-way delay: 18.773 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 103.42 Mbit/s  
95th percentile per-packet one-way delay: 18.775 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 114.55 Mbit/s  
95th percentile per-packet one-way delay: 17.364 ms  
Loss rate: 0.11%

Run 9: Report of Copa — Data Link

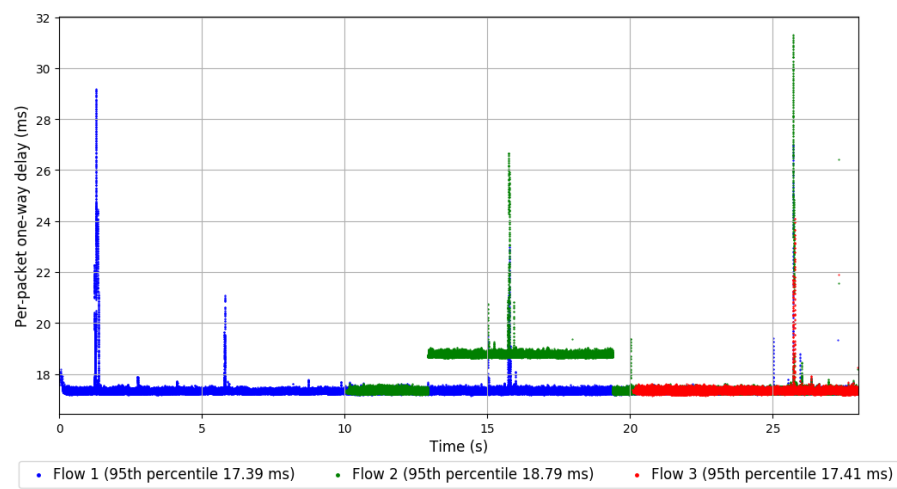
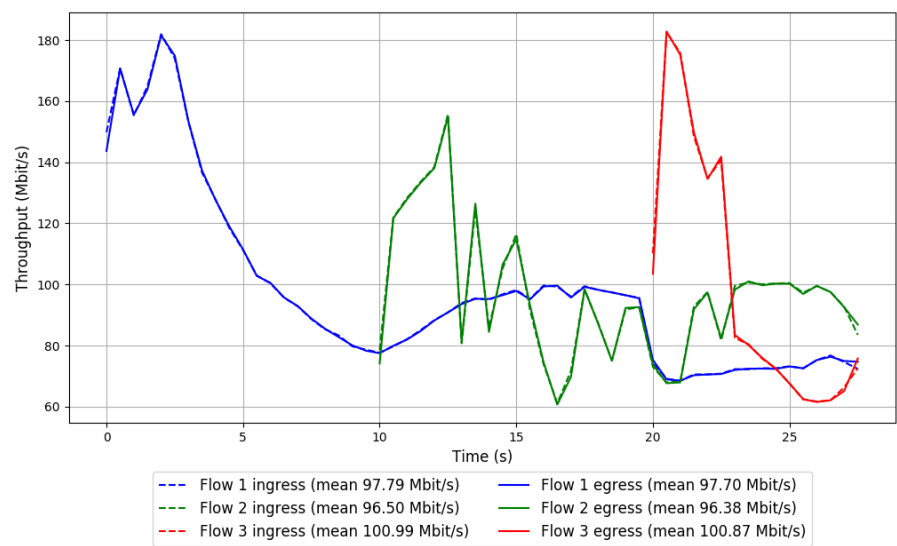


Run 10: Statistics of Copa

Start at: 2018-01-10 06:29:31  
End at: 2018-01-10 06:30:01  
Local clock offset: 0.173 ms  
Remote clock offset: -2.155 ms

# Below is generated by plot.py at 2018-01-10 12:15:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 188.08 Mbit/s  
95th percentile per-packet one-way delay: 18.738 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 97.70 Mbit/s  
95th percentile per-packet one-way delay: 17.394 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 96.38 Mbit/s  
95th percentile per-packet one-way delay: 18.793 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 100.87 Mbit/s  
95th percentile per-packet one-way delay: 17.412 ms  
Loss rate: 0.12%

Run 10: Report of Copa — Data Link



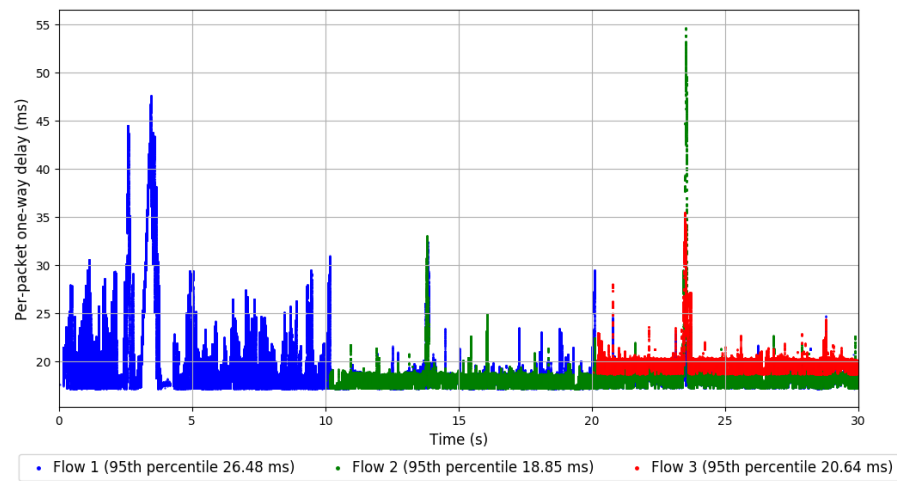
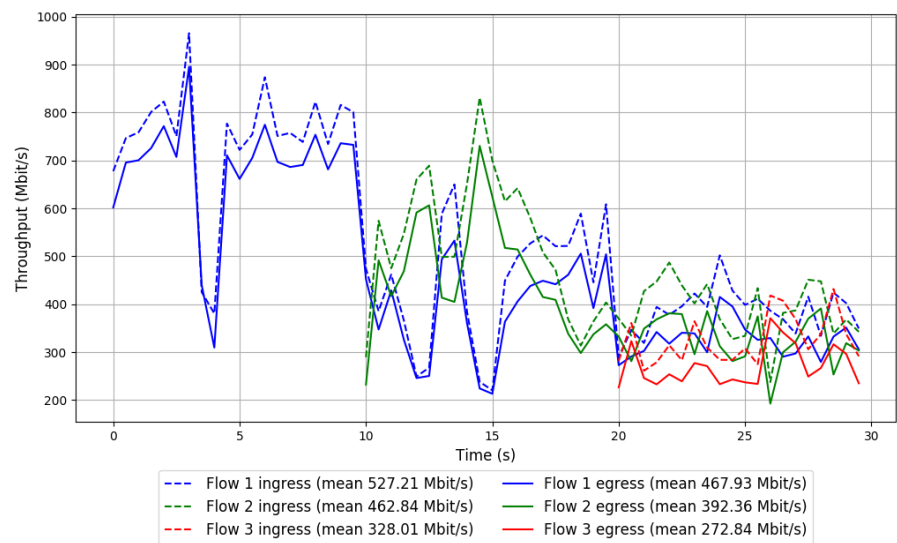
Run 1: Statistics of FillP

Start at: 2018-01-10 03:12:05  
End at: 2018-01-10 03:12:35  
Local clock offset: -0.949 ms  
Remote clock offset: -2.785 ms

# Below is generated by plot.py at 2018-01-10 12:33:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 819.44 Mbit/s  
95th percentile per-packet one-way delay: 23.802 ms  
Loss rate: 13.18%  
-- Flow 1:  
Average throughput: 467.93 Mbit/s  
95th percentile per-packet one-way delay: 26.480 ms  
Loss rate: 11.24%  
-- Flow 2:  
Average throughput: 392.36 Mbit/s  
95th percentile per-packet one-way delay: 18.853 ms  
Loss rate: 15.23%  
-- Flow 3:  
Average throughput: 272.84 Mbit/s  
95th percentile per-packet one-way delay: 20.643 ms  
Loss rate: 16.82%



Run 1: Report of FillP — Data Link

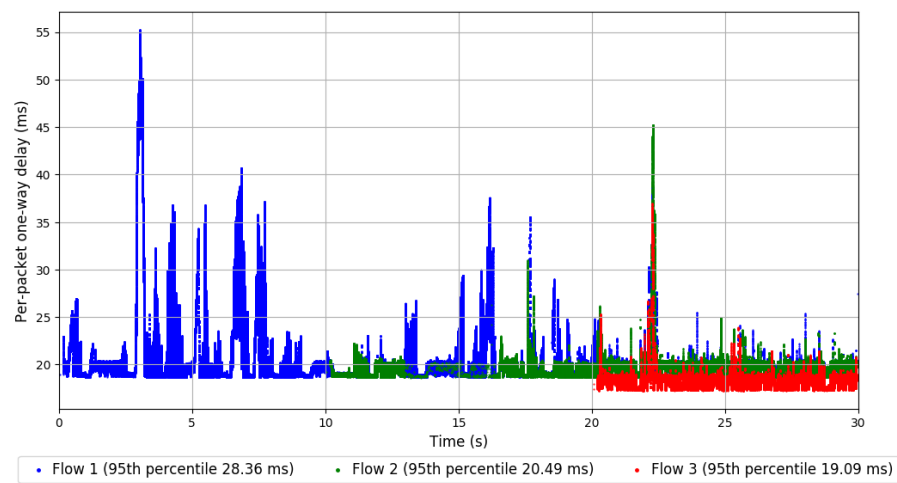
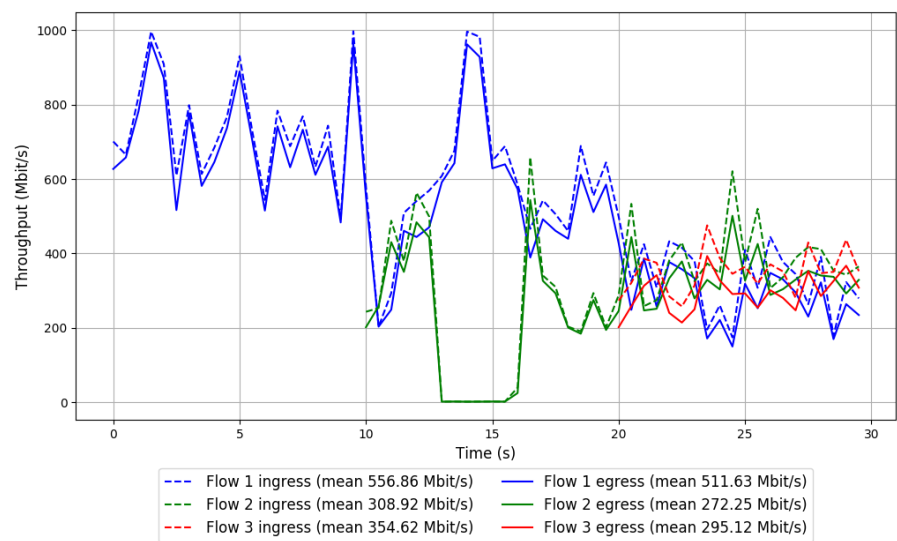


Run 2: Statistics of FillP

Start at: 2018-01-10 03:33:51  
End at: 2018-01-10 03:34:21  
Local clock offset: -0.569 ms  
Remote clock offset: -2.692 ms

# Below is generated by plot.py at 2018-01-10 12:34:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 790.47 Mbit/s  
95th percentile per-packet one-way delay: 25.647 ms  
Loss rate: 10.13%  
-- Flow 1:  
Average throughput: 511.63 Mbit/s  
95th percentile per-packet one-way delay: 28.357 ms  
Loss rate: 8.10%  
-- Flow 2:  
Average throughput: 272.25 Mbit/s  
95th percentile per-packet one-way delay: 20.494 ms  
Loss rate: 11.87%  
-- Flow 3:  
Average throughput: 295.12 Mbit/s  
95th percentile per-packet one-way delay: 19.087 ms  
Loss rate: 16.77%

Run 2: Report of FillP — Data Link

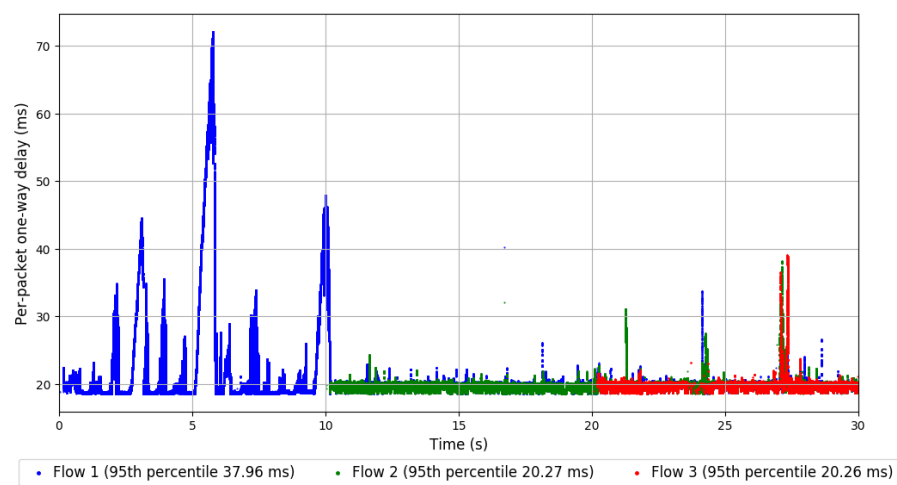
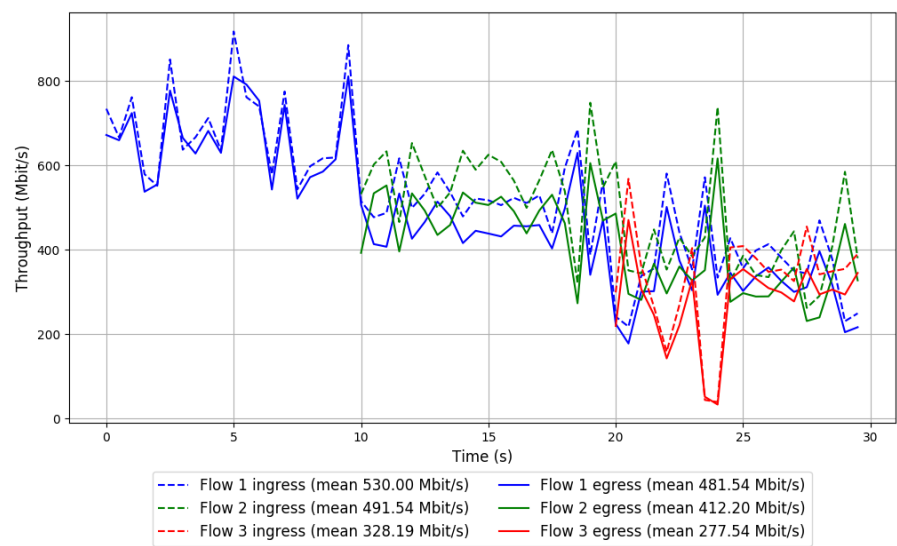


Run 3: Statistics of FillP

Start at: 2018-01-10 03:55:49  
End at: 2018-01-10 03:56:19  
Local clock offset: -0.145 ms  
Remote clock offset: -2.385 ms

# Below is generated by plot.py at 2018-01-10 12:38:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 847.90 Mbit/s  
95th percentile per-packet one-way delay: 29.521 ms  
Loss rate: 12.22%  
-- Flow 1:  
Average throughput: 481.54 Mbit/s  
95th percentile per-packet one-way delay: 37.959 ms  
Loss rate: 9.14%  
-- Flow 2:  
Average throughput: 412.20 Mbit/s  
95th percentile per-packet one-way delay: 20.268 ms  
Loss rate: 16.14%  
-- Flow 3:  
Average throughput: 277.54 Mbit/s  
95th percentile per-packet one-way delay: 20.257 ms  
Loss rate: 15.42%

Run 3: Report of FillP — Data Link

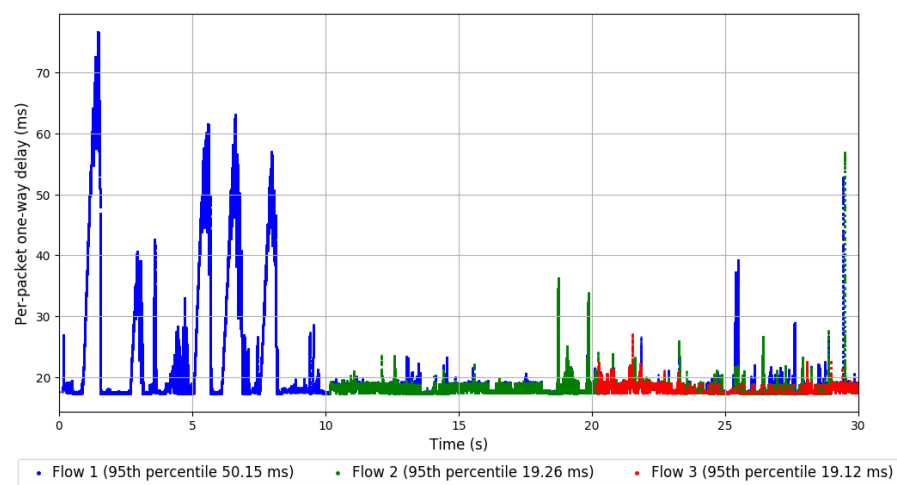
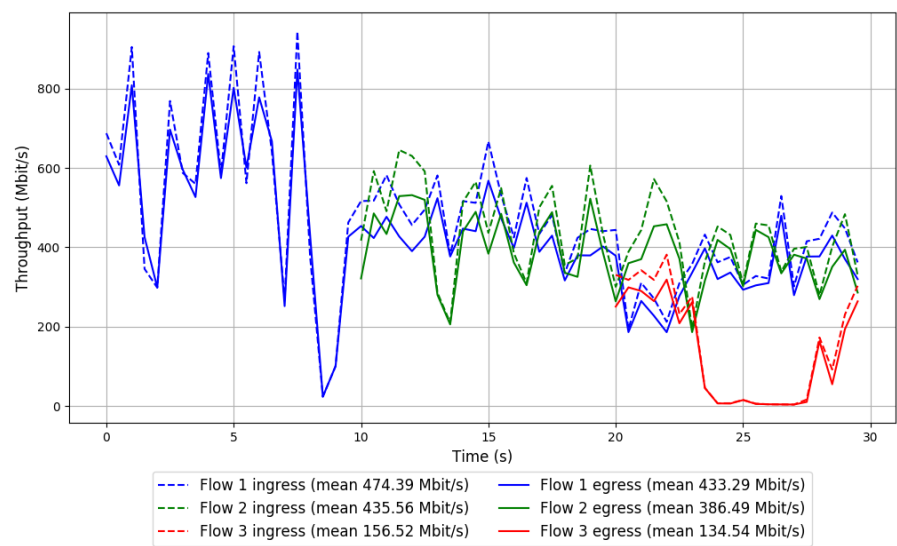


Run 4: Statistics of FillP

Start at: 2018-01-10 04:17:43  
End at: 2018-01-10 04:18:13  
Local clock offset: 0.458 ms  
Remote clock offset: -2.366 ms

# Below is generated by plot.py at 2018-01-10 12:38:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 735.13 Mbit/s  
95th percentile per-packet one-way delay: 43.477 ms  
Loss rate: 9.93%  
-- Flow 1:  
Average throughput: 433.29 Mbit/s  
95th percentile per-packet one-way delay: 50.146 ms  
Loss rate: 8.67%  
-- Flow 2:  
Average throughput: 386.49 Mbit/s  
95th percentile per-packet one-way delay: 19.264 ms  
Loss rate: 11.26%  
-- Flow 3:  
Average throughput: 134.54 Mbit/s  
95th percentile per-packet one-way delay: 19.121 ms  
Loss rate: 14.04%

Run 4: Report of FillP — Data Link



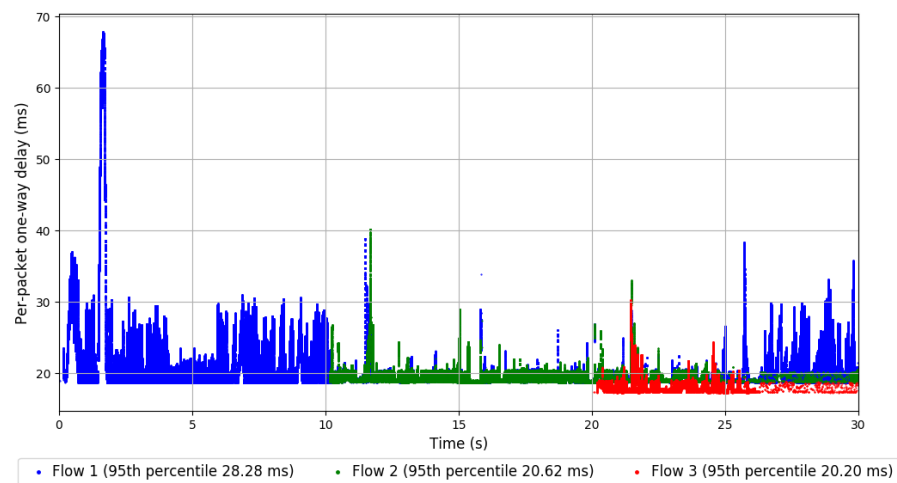
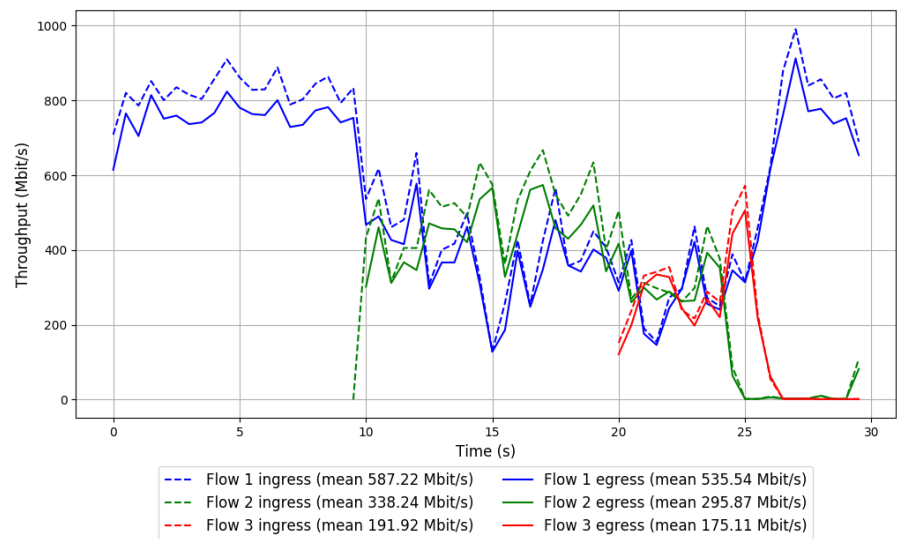
Run 5: Statistics of FillP

Start at: 2018-01-10 04:39:32  
End at: 2018-01-10 04:40:02  
Local clock offset: 1.022 ms  
Remote clock offset: -2.112 ms

# Below is generated by plot.py at 2018-01-10 12:39:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 790.42 Mbit/s  
95th percentile per-packet one-way delay: 27.062 ms  
Loss rate: 9.75%  
-- Flow 1:  
Average throughput: 535.54 Mbit/s  
95th percentile per-packet one-way delay: 28.283 ms  
Loss rate: 8.79%  
-- Flow 2:  
Average throughput: 295.87 Mbit/s  
95th percentile per-packet one-way delay: 20.623 ms  
Loss rate: 12.53%  
-- Flow 3:  
Average throughput: 175.11 Mbit/s  
95th percentile per-packet one-way delay: 20.200 ms  
Loss rate: 8.77%



Run 5: Report of FillP — Data Link

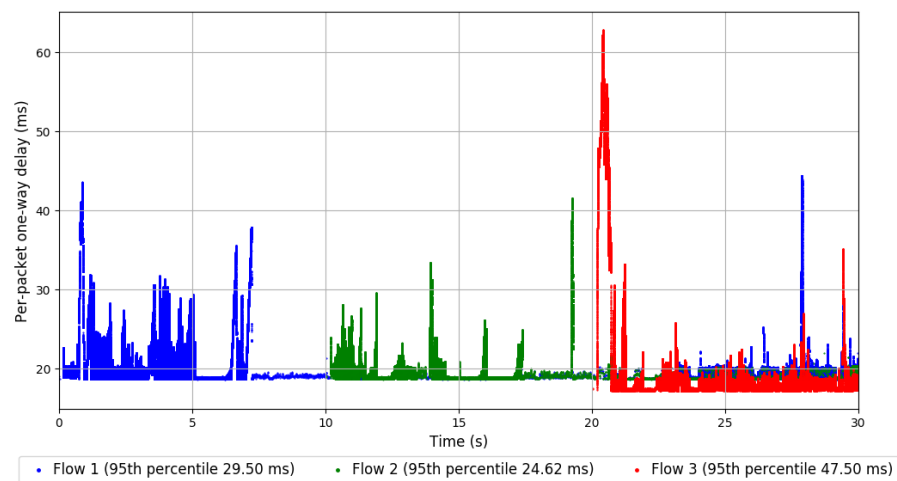
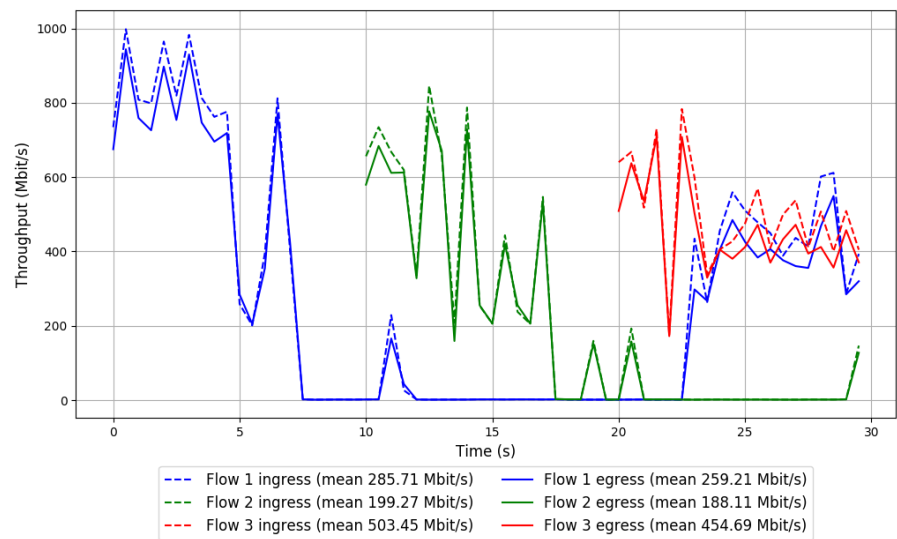


Run 6: Statistics of FillP

Start at: 2018-01-10 05:01:26  
End at: 2018-01-10 05:01:56  
Local clock offset: 1.246 ms  
Remote clock offset: -2.572 ms

# Below is generated by plot.py at 2018-01-10 12:39:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 535.30 Mbit/s  
95th percentile per-packet one-way delay: 30.203 ms  
Loss rate: 8.55%  
-- Flow 1:  
Average throughput: 259.21 Mbit/s  
95th percentile per-packet one-way delay: 29.500 ms  
Loss rate: 9.27%  
-- Flow 2:  
Average throughput: 188.11 Mbit/s  
95th percentile per-packet one-way delay: 24.620 ms  
Loss rate: 5.60%  
-- Flow 3:  
Average throughput: 454.69 Mbit/s  
95th percentile per-packet one-way delay: 47.503 ms  
Loss rate: 9.68%

Run 6: Report of FillP — Data Link

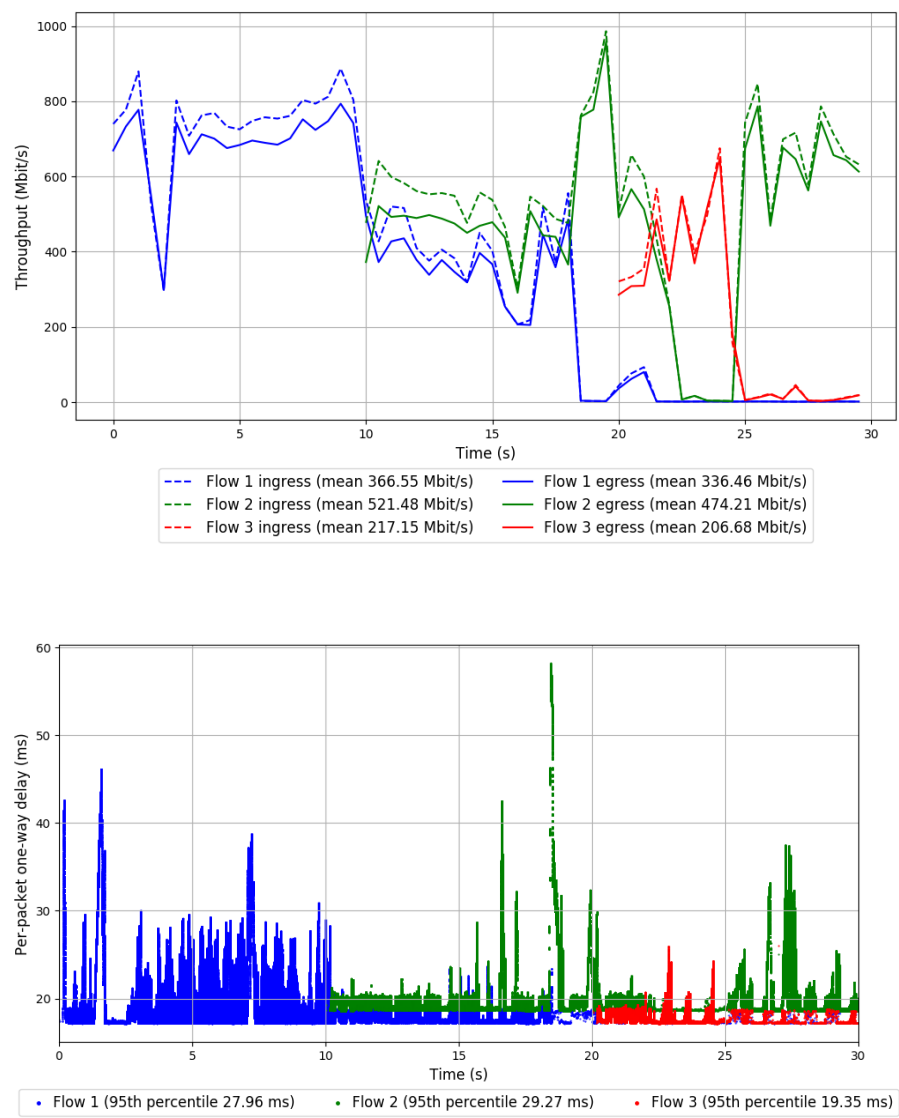


Run 7: Statistics of FillP

Start at: 2018-01-10 05:23:07  
End at: 2018-01-10 05:23:37  
Local clock offset: 1.235 ms  
Remote clock offset: -2.267 ms

# Below is generated by plot.py at 2018-01-10 12:39:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 720.76 Mbit/s  
95th percentile per-packet one-way delay: 27.813 ms  
Loss rate: 8.28%  
-- Flow 1:  
Average throughput: 336.46 Mbit/s  
95th percentile per-packet one-way delay: 27.957 ms  
Loss rate: 8.21%  
-- Flow 2:  
Average throughput: 474.21 Mbit/s  
95th percentile per-packet one-way delay: 29.272 ms  
Loss rate: 9.06%  
-- Flow 3:  
Average throughput: 206.68 Mbit/s  
95th percentile per-packet one-way delay: 19.354 ms  
Loss rate: 4.83%

Run 7: Report of FillP — Data Link

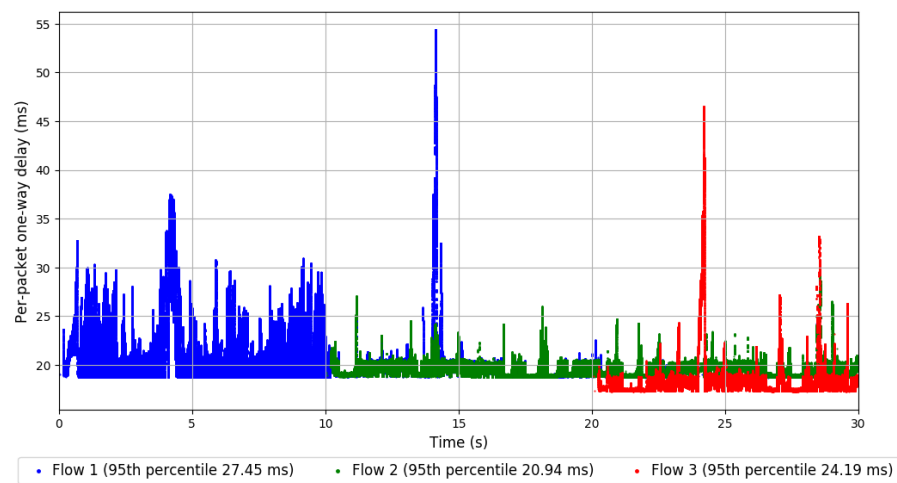
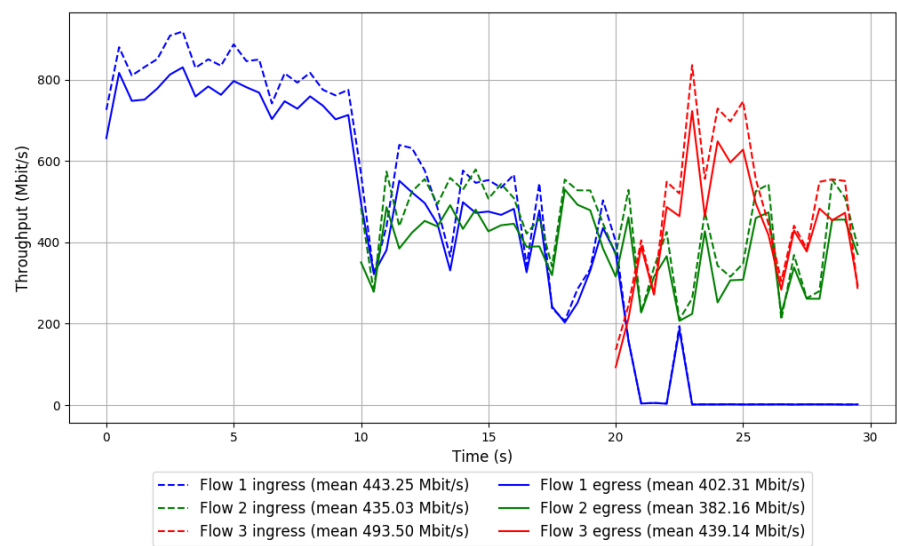


Run 8: Statistics of FillP

Start at: 2018-01-10 05:45:00  
End at: 2018-01-10 05:45:30  
Local clock offset: 0.838 ms  
Remote clock offset: -1.848 ms

# Below is generated by plot.py at 2018-01-10 12:40:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 801.69 Mbit/s  
95th percentile per-packet one-way delay: 25.537 ms  
Loss rate: 10.50%  
-- Flow 1:  
Average throughput: 402.31 Mbit/s  
95th percentile per-packet one-way delay: 27.455 ms  
Loss rate: 9.23%  
-- Flow 2:  
Average throughput: 382.16 Mbit/s  
95th percentile per-packet one-way delay: 20.939 ms  
Loss rate: 12.15%  
-- Flow 3:  
Average throughput: 439.14 Mbit/s  
95th percentile per-packet one-way delay: 24.193 ms  
Loss rate: 11.02%

Run 8: Report of FillP — Data Link



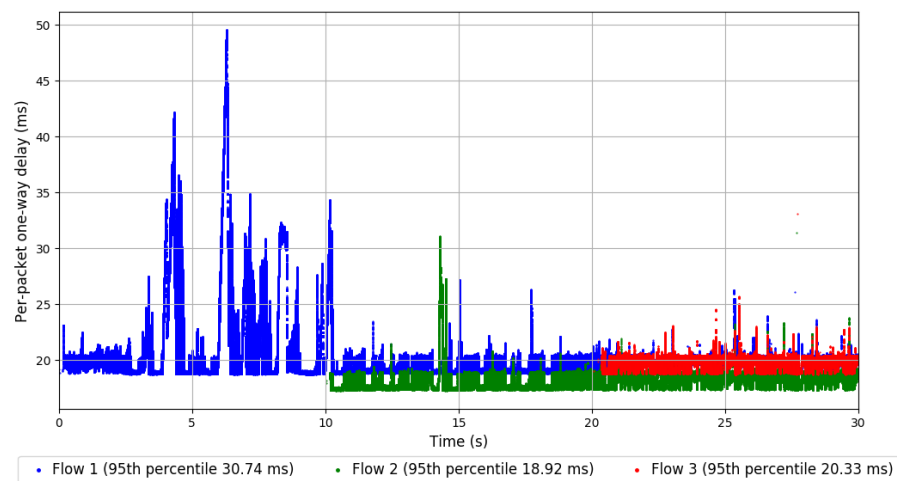
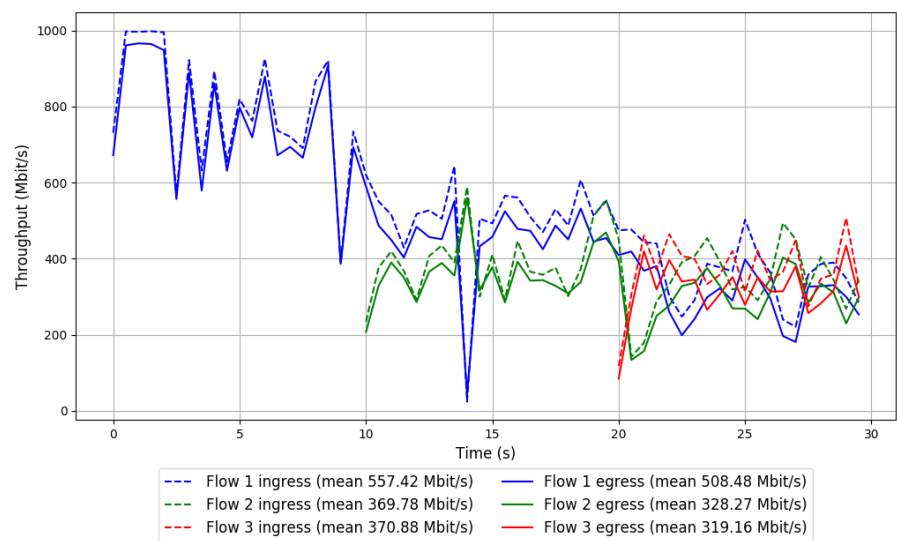
Run 9: Statistics of FillP

Start at: 2018-01-10 06:06:51  
End at: 2018-01-10 06:07:21  
Local clock offset: 0.439 ms  
Remote clock offset: -2.163 ms

# Below is generated by plot.py at 2018-01-10 12:51:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 832.58 Mbit/s  
95th percentile per-packet one-way delay: 27.322 ms  
Loss rate: 10.11%  
-- Flow 1:  
Average throughput: 508.48 Mbit/s  
95th percentile per-packet one-way delay: 30.738 ms  
Loss rate: 8.78%  
-- Flow 2:  
Average throughput: 328.27 Mbit/s  
95th percentile per-packet one-way delay: 18.920 ms  
Loss rate: 11.22%  
-- Flow 3:  
Average throughput: 319.16 Mbit/s  
95th percentile per-packet one-way delay: 20.334 ms  
Loss rate: 13.94%



Run 9: Report of FillP — Data Link

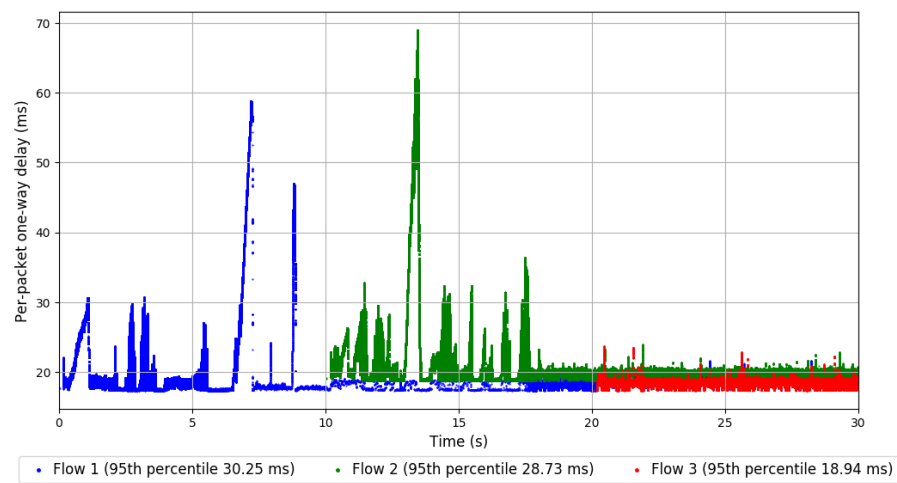
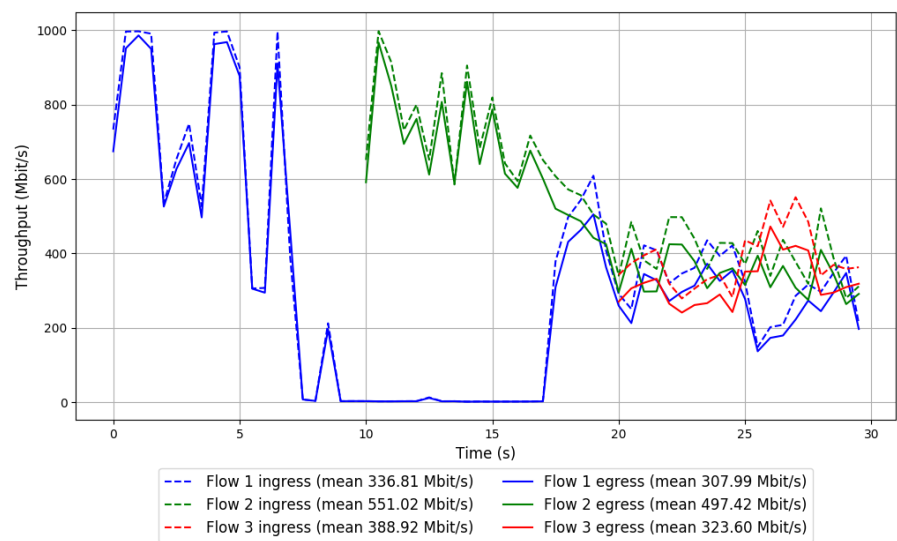


Run 10: Statistics of FillP

Start at: 2018-01-10 06:27:47  
End at: 2018-01-10 06:28:17  
Local clock offset: 0.075 ms  
Remote clock offset: -2.182 ms

# Below is generated by plot.py at 2018-01-10 12:51:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 746.36 Mbit/s  
95th percentile per-packet one-way delay: 28.268 ms  
Loss rate: 10.35%  
-- Flow 1:  
Average throughput: 307.99 Mbit/s  
95th percentile per-packet one-way delay: 30.255 ms  
Loss rate: 8.55%  
-- Flow 2:  
Average throughput: 497.42 Mbit/s  
95th percentile per-packet one-way delay: 28.726 ms  
Loss rate: 9.73%  
-- Flow 3:  
Average throughput: 323.60 Mbit/s  
95th percentile per-packet one-way delay: 18.942 ms  
Loss rate: 16.79%

Run 10: Report of FillP — Data Link

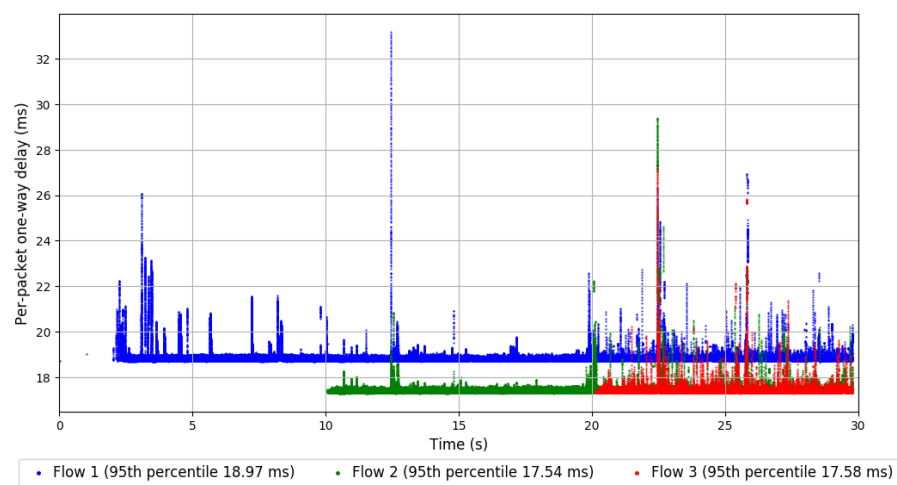
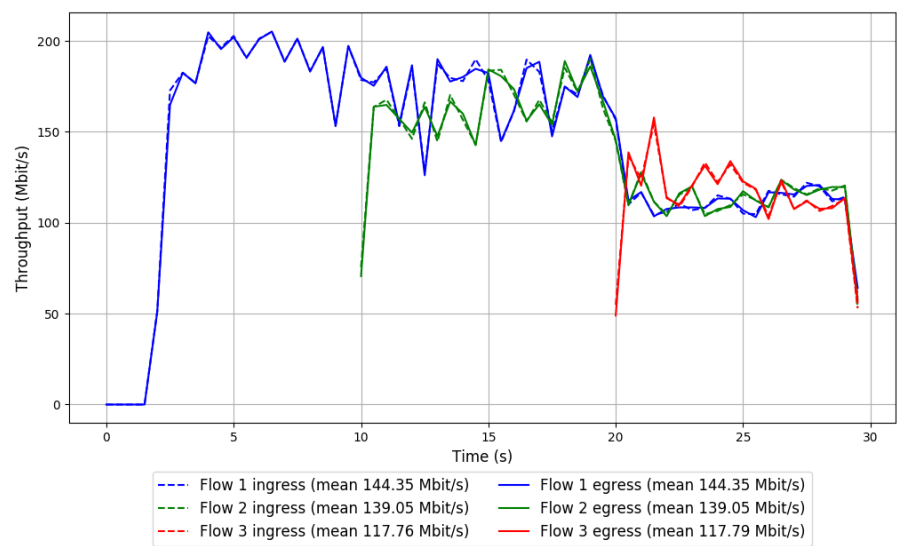


Run 1: Statistics of Indigo

Start at: 2018-01-10 03:31:06  
End at: 2018-01-10 03:31:36  
Local clock offset: -0.667 ms  
Remote clock offset: -2.686 ms

# Below is generated by plot.py at 2018-01-10 12:51:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 274.53 Mbit/s  
95th percentile per-packet one-way delay: 18.905 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 144.35 Mbit/s  
95th percentile per-packet one-way delay: 18.973 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 139.05 Mbit/s  
95th percentile per-packet one-way delay: 17.536 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 117.79 Mbit/s  
95th percentile per-packet one-way delay: 17.576 ms  
Loss rate: 0.00%

Run 1: Report of Indigo — Data Link

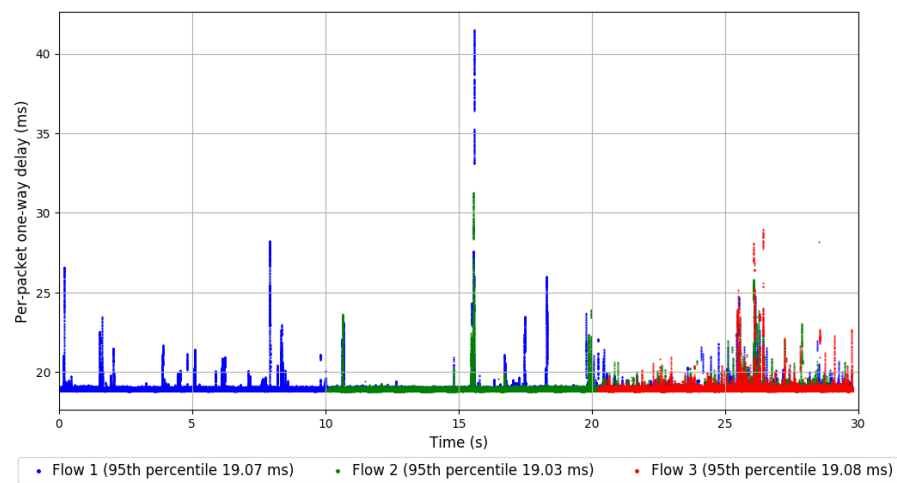
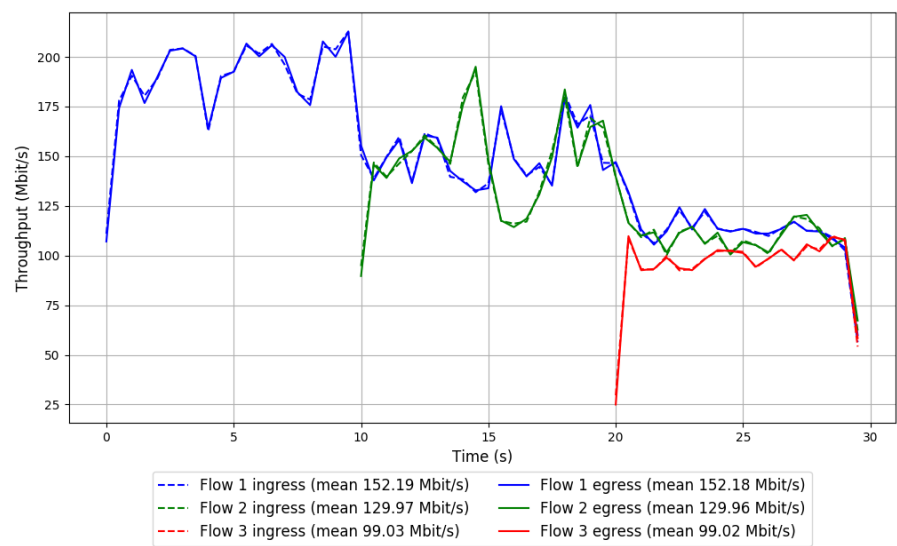


Run 2: Statistics of Indigo

Start at: 2018-01-10 03:53:03  
End at: 2018-01-10 03:53:33  
Local clock offset: -0.334 ms  
Remote clock offset: -2.365 ms

# Below is generated by plot.py at 2018-01-10 12:51:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 270.04 Mbit/s  
95th percentile per-packet one-way delay: 19.059 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 152.18 Mbit/s  
95th percentile per-packet one-way delay: 19.070 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 129.96 Mbit/s  
95th percentile per-packet one-way delay: 19.034 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 99.02 Mbit/s  
95th percentile per-packet one-way delay: 19.082 ms  
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



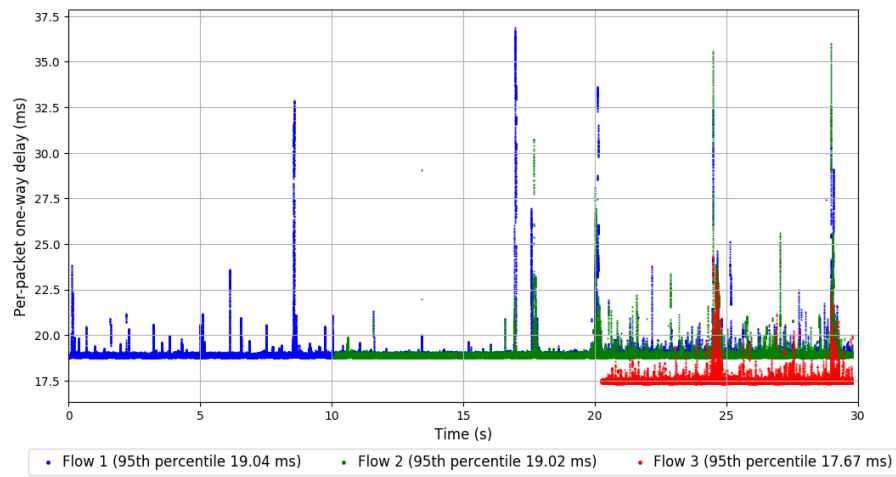
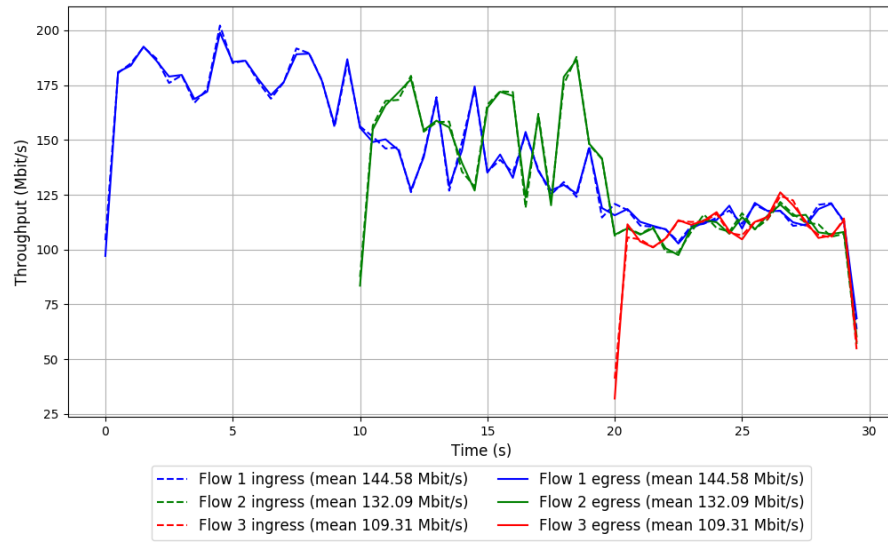
Run 3: Statistics of Indigo

Start at: 2018-01-10 04:14:50  
End at: 2018-01-10 04:15:20  
Local clock offset: 0.353 ms  
Remote clock offset: -2.457 ms

```
# Below is generated by plot.py at 2018-01-10 12:51:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 267.13 Mbit/s
95th percentile per-packet one-way delay: 19.021 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 144.58 Mbit/s
95th percentile per-packet one-way delay: 19.043 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 132.09 Mbit/s
95th percentile per-packet one-way delay: 19.024 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 109.31 Mbit/s
95th percentile per-packet one-way delay: 17.671 ms
Loss rate: 0.00%
```



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



Run 4: Statistics of Indigo

Start at: 2018-01-10 04:36:40

End at: 2018-01-10 04:37:10

Local clock offset: 0.959 ms

Remote clock offset: -2.15 ms

# Below is generated by plot.py at 2018-01-10 12:51:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 316.36 Mbit/s

95th percentile per-packet one-way delay: 18.862 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 173.87 Mbit/s

95th percentile per-packet one-way delay: 17.513 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 155.50 Mbit/s

95th percentile per-packet one-way delay: 18.960 ms

Loss rate: 0.00%

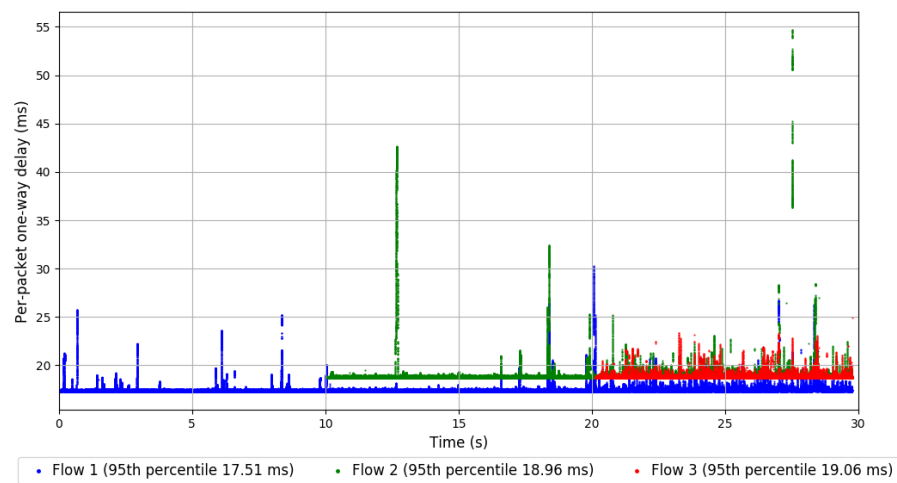
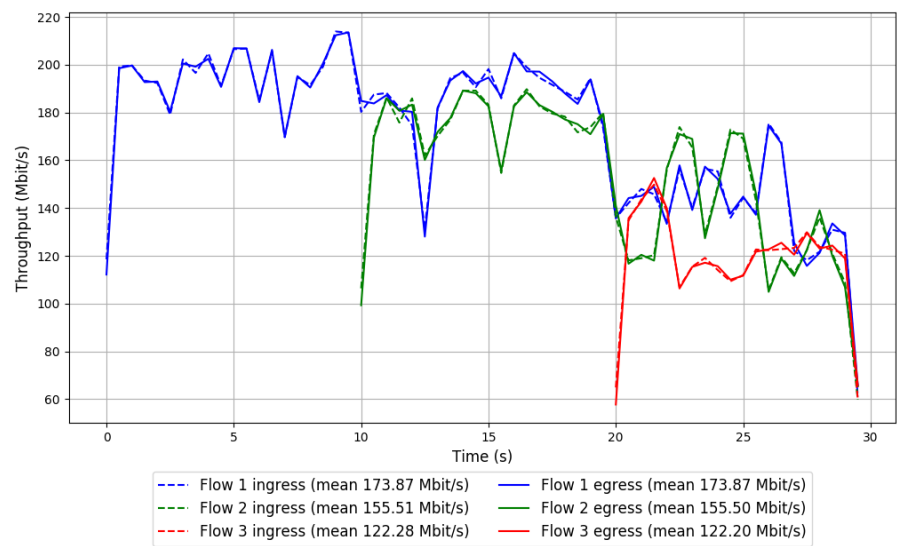
-- Flow 3:

Average throughput: 122.20 Mbit/s

95th percentile per-packet one-way delay: 19.064 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link

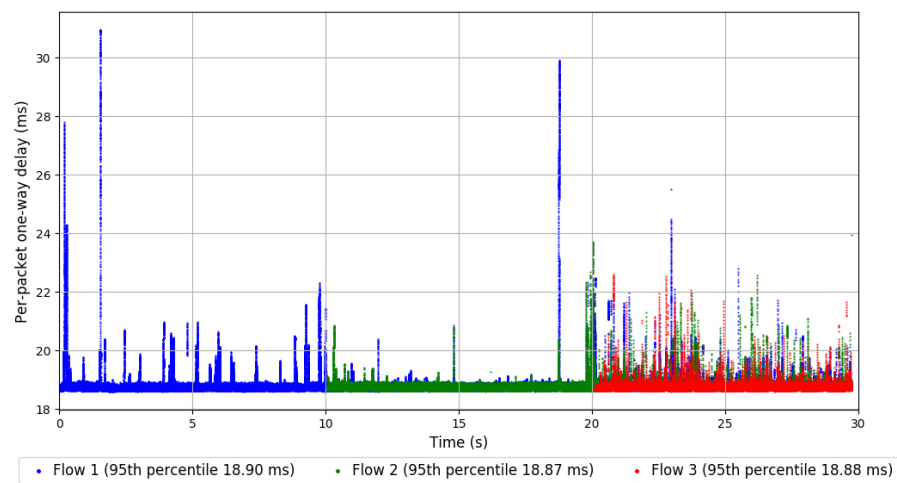
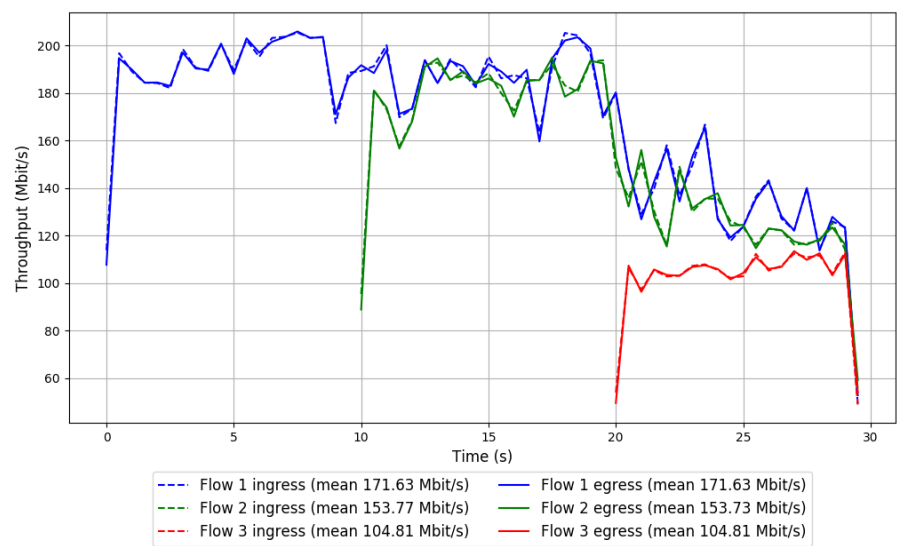


Run 5: Statistics of Indigo

Start at: 2018-01-10 04:58:33  
End at: 2018-01-10 04:59:03  
Local clock offset: 1.227 ms  
Remote clock offset: -2.619 ms

# Below is generated by plot.py at 2018-01-10 12:51:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 307.48 Mbit/s  
95th percentile per-packet one-way delay: 18.885 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 171.63 Mbit/s  
95th percentile per-packet one-way delay: 18.903 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 153.73 Mbit/s  
95th percentile per-packet one-way delay: 18.868 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 104.81 Mbit/s  
95th percentile per-packet one-way delay: 18.876 ms  
Loss rate: 0.00%

Run 5: Report of Indigo — Data Link

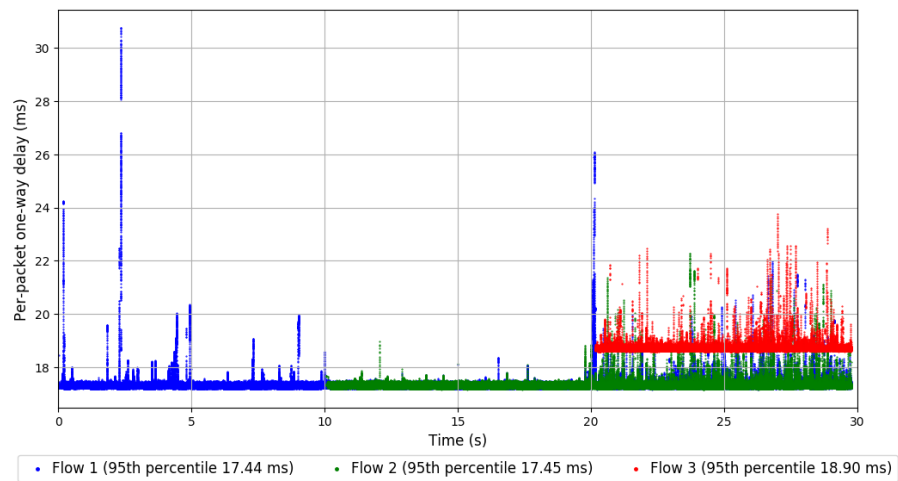
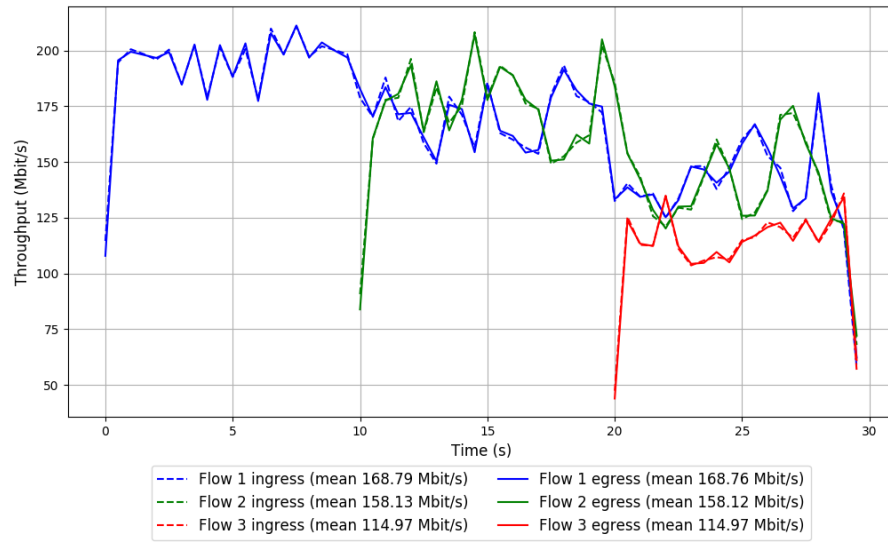


Run 6: Statistics of Indigo

Start at: 2018-01-10 05:20:14  
End at: 2018-01-10 05:20:44  
Local clock offset: 1.312 ms  
Remote clock offset: -2.312 ms

# Below is generated by plot.py at 2018-01-10 12:51:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 310.61 Mbit/s  
95th percentile per-packet one-way delay: 18.701 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 168.76 Mbit/s  
95th percentile per-packet one-way delay: 17.443 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 158.12 Mbit/s  
95th percentile per-packet one-way delay: 17.448 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 114.97 Mbit/s  
95th percentile per-packet one-way delay: 18.897 ms  
Loss rate: 0.00%

## Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-10 05:42:09

End at: 2018-01-10 05:42:39

Local clock offset: 0.94 ms

Remote clock offset: -1.97 ms

# Below is generated by plot.py at 2018-01-10 12:51:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 283.60 Mbit/s

95th percentile per-packet one-way delay: 18.704 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 162.04 Mbit/s

95th percentile per-packet one-way delay: 17.430 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 130.04 Mbit/s

95th percentile per-packet one-way delay: 17.408 ms

Loss rate: 0.00%

-- Flow 3:

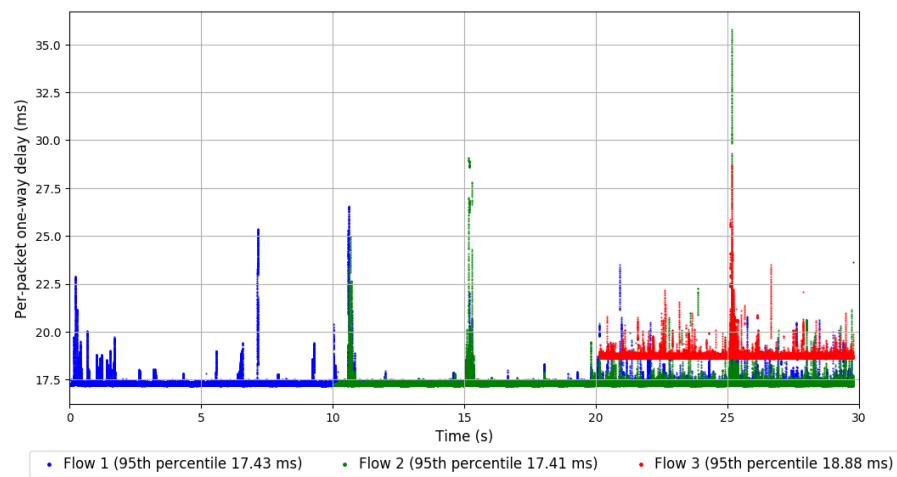
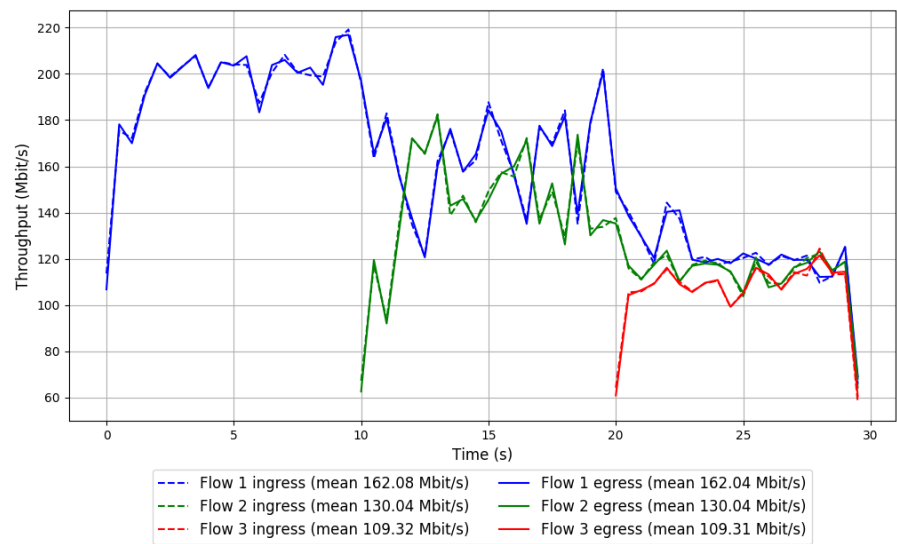
Average throughput: 109.31 Mbit/s

95th percentile per-packet one-way delay: 18.883 ms

Loss rate: 0.02%



Run 7: Report of Indigo — Data Link

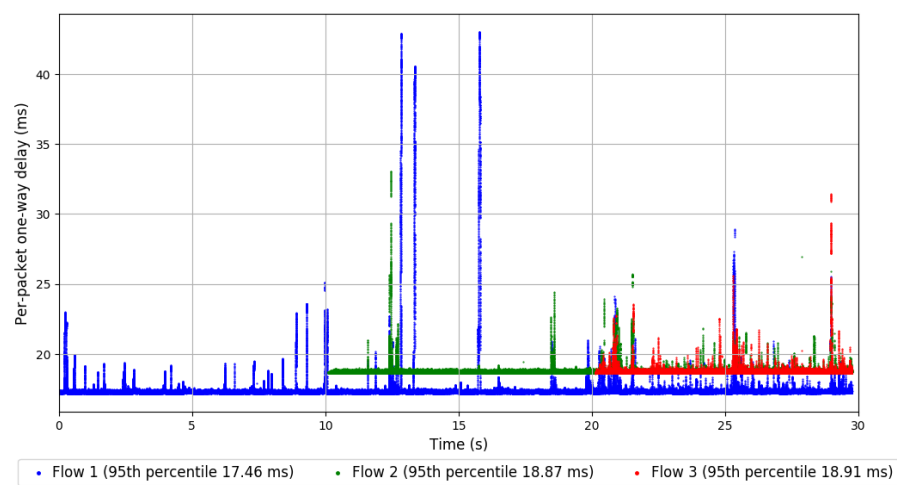
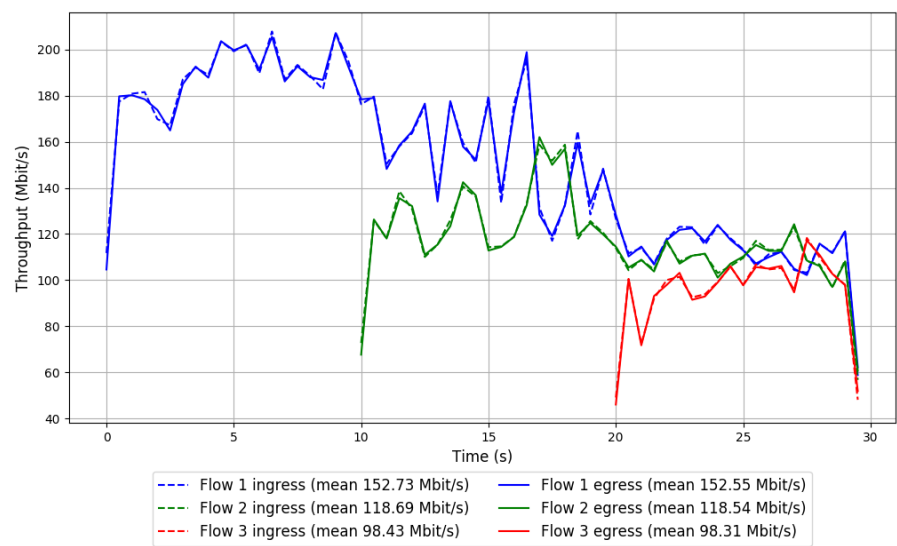


Run 8: Statistics of Indigo

Start at: 2018-01-10 06:04:01  
End at: 2018-01-10 06:04:31  
Local clock offset: 0.497 ms  
Remote clock offset: -2.125 ms

# Below is generated by plot.py at 2018-01-10 12:51:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 262.69 Mbit/s  
95th percentile per-packet one-way delay: 18.813 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 152.55 Mbit/s  
95th percentile per-packet one-way delay: 17.458 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 118.54 Mbit/s  
95th percentile per-packet one-way delay: 18.868 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 98.31 Mbit/s  
95th percentile per-packet one-way delay: 18.910 ms  
Loss rate: 0.13%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

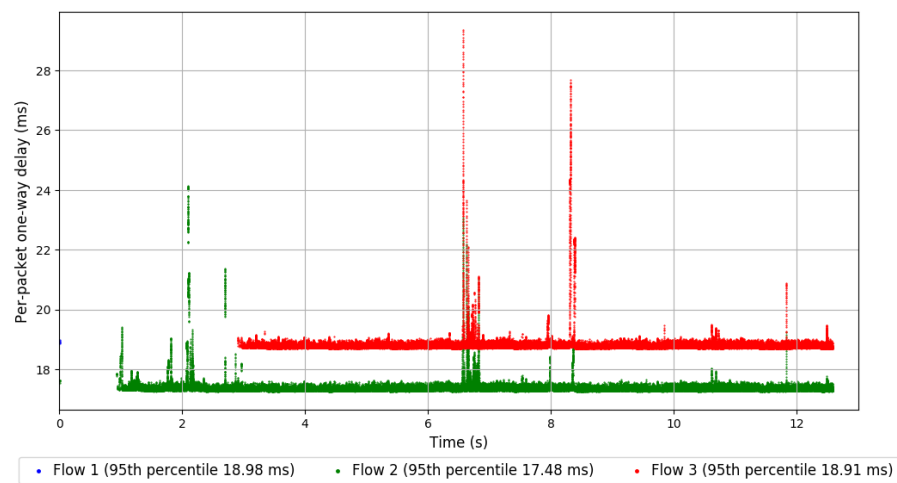
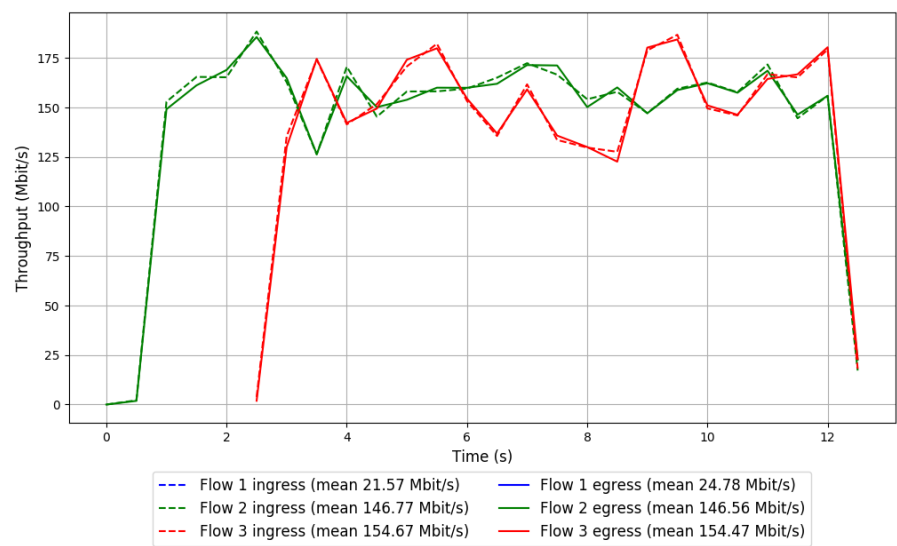
Start at: 2018-01-10 06:25:03

End at: 2018-01-10 06:25:33

Local clock offset: 0.157 ms

Remote clock offset: -2.181 ms

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-10 06:45:43  
End at: 2018-01-10 06:46:13  
Local clock offset: -0.03 ms  
Remote clock offset: -2.368 ms

# Below is generated by plot.py at 2018-01-10 12:51:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 284.86 Mbit/s  
95th percentile per-packet one-way delay: 18.817 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 160.77 Mbit/s  
95th percentile per-packet one-way delay: 17.445 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 134.23 Mbit/s  
95th percentile per-packet one-way delay: 18.863 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 107.91 Mbit/s  
95th percentile per-packet one-way delay: 18.893 ms  
Loss rate: 0.11%

Run 10: Report of Indigo — Data Link

