

## Pantheon Report

Generated at 2018-03-21 08:10:54 (UTC).

Data path: Colombia Ethernet (*remote*) → AWS Brazil 2 Ethernet (*local*).

Repeated the test of 17 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).

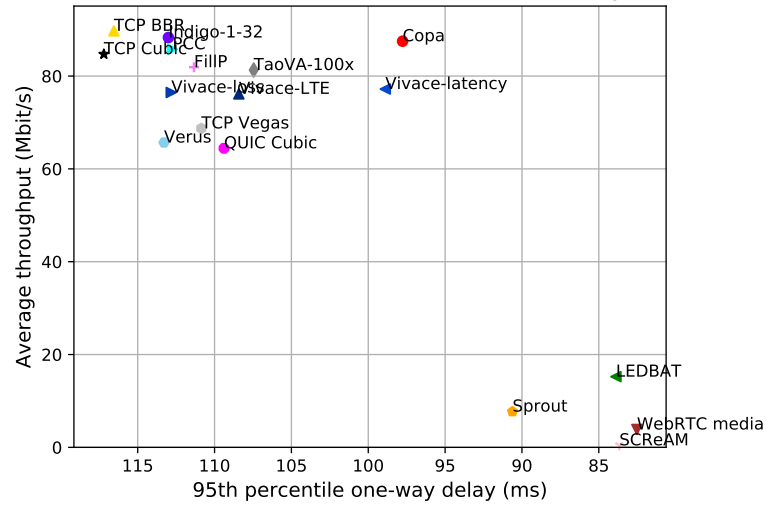
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo\_fast**).

NTP offsets were measured against **gps.ntp.br** and have been applied to correct the timestamps in logs.

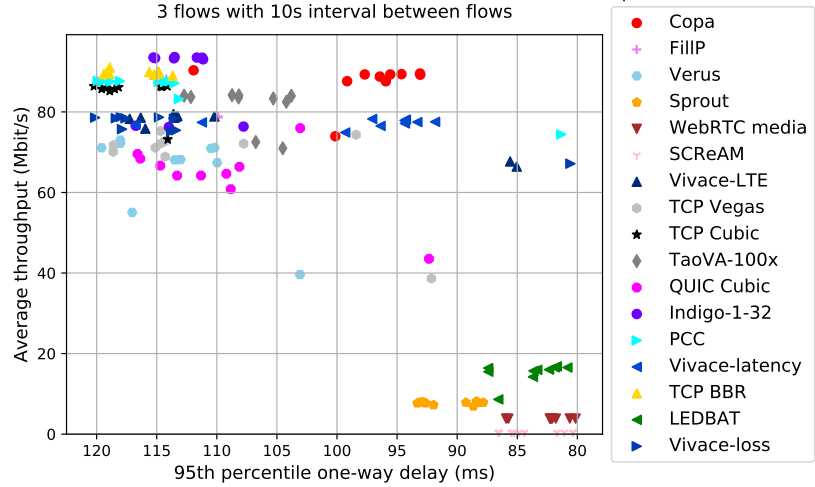
Git summary:

```
branch: master @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
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 @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from Colombia Ethernet to AWS Brazil 2 Ethernet, 10 runs of 30s each per scheme  
3 flows with 10s interval between flows (mean of all runs by scheme)



test from Colombia Ethernet to AWS Brazil 2 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	54.79	38.32	29.21	116.19	116.71	116.67	0.38	0.95	2.62
TCP Cubic	10	49.52	39.05	28.43	116.66	117.20	117.65	0.57	1.31	3.89
LEDBAT	10	9.85	6.45	3.41	83.38	84.16	83.61	1.22	1.93	3.69
PCC	10	58.20	28.80	26.13	111.89	112.60	113.47	3.54	5.46	7.23
QUIC Cubic	10	39.52	29.10	17.32	107.90	110.13	110.42	0.96	1.62	2.03
SCReAM	10	0.22	0.22	0.22	82.62	83.50	83.15	0.64	0.84	1.57
WebRTC media	10	2.10	1.30	0.48	81.98	81.97	82.40	0.86	0.70	2.92
Sprout	10	3.98	3.95	3.42	90.55	90.16	90.32	0.60	1.10	2.80
TaoVA-100x	10	48.82	38.76	20.91	105.74	107.52	110.09	2.92	4.02	4.75
TCP Vegas	10	34.94	38.22	25.70	110.39	110.69	110.27	0.70	1.04	2.31
Verus	10	34.01	34.23	27.67	111.99	112.77	115.24	2.57	3.08	5.47
Copa	10	71.13	18.33	12.87	96.66	98.92	97.44	2.06	2.90	9.82
FillP	3	50.41	33.95	27.70	109.43	112.01	113.10	14.59	16.43	17.95
Indigo-1-32	10	61.44	29.31	23.50	112.02	113.00	114.79	4.85	5.43	6.57
Vivace-latency	10	64.59	14.76	8.69	98.21	99.99	99.07	0.62	1.52	3.21
Vivace-loss	10	50.94	27.60	22.24	112.16	112.44	113.35	1.38	3.93	10.00
Vivace-LTE	10	53.39	25.37	18.32	107.52	108.57	108.81	1.43	3.32	5.92

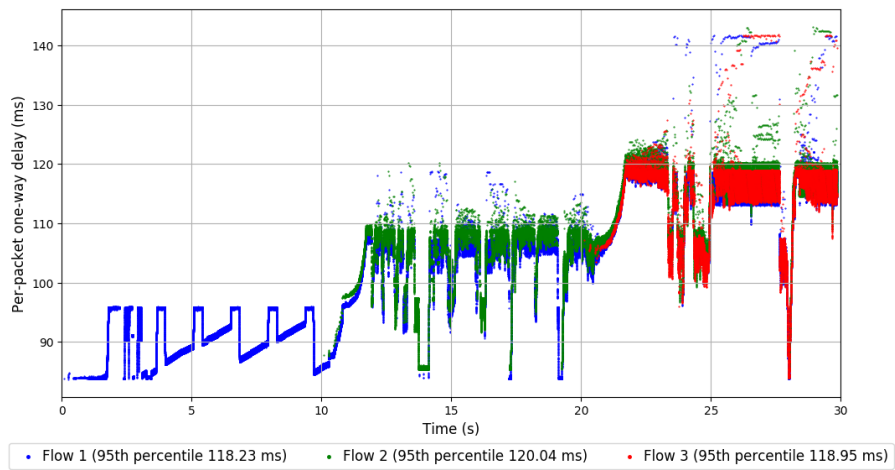
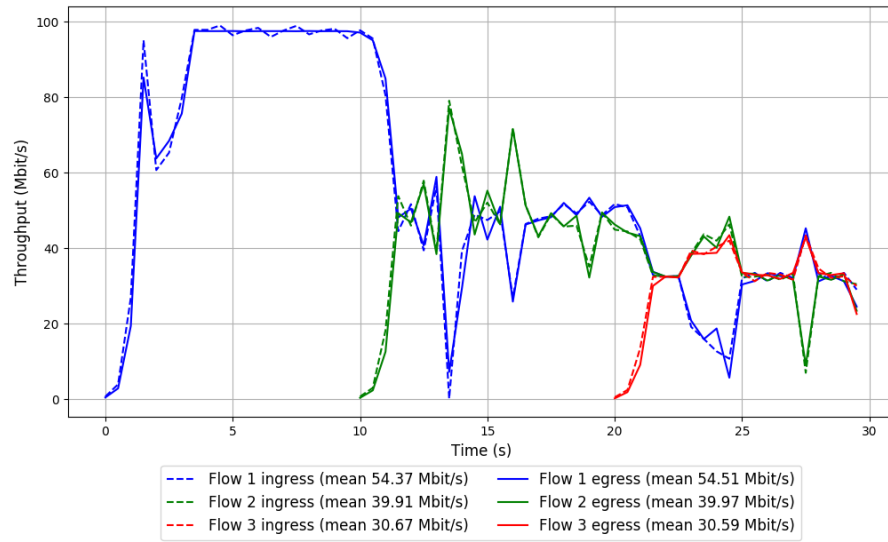
Run 1: Statistics of TCP BBR

Start at: 2018-03-20 23:49:27  
End at: 2018-03-20 23:49:57  
Local clock offset: -13.278 ms  
Remote clock offset: 3.4 ms

# Below is generated by plot.py at 2018-03-21 07:50:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.02 Mbit/s  
95th percentile per-packet one-way delay: 118.911 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 54.51 Mbit/s  
95th percentile per-packet one-way delay: 118.228 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 39.97 Mbit/s  
95th percentile per-packet one-way delay: 120.044 ms  
Loss rate: 0.86%  
-- Flow 3:  
Average throughput: 30.59 Mbit/s  
95th percentile per-packet one-way delay: 118.949 ms  
Loss rate: 2.34%



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

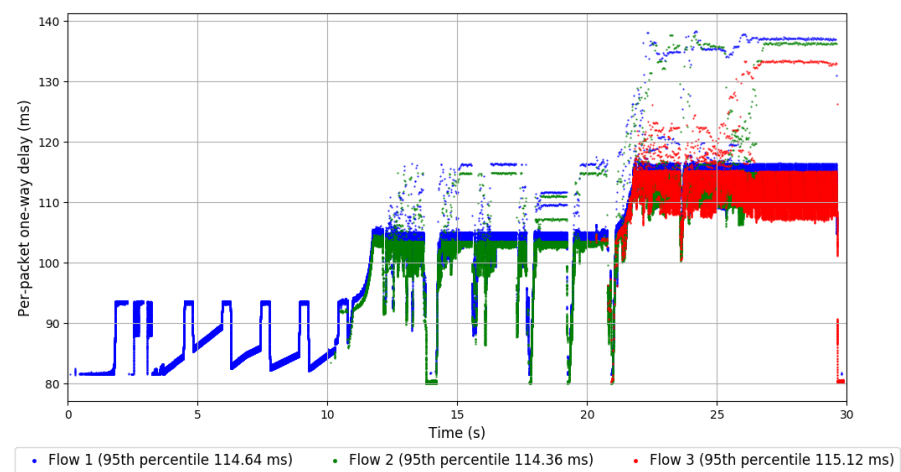
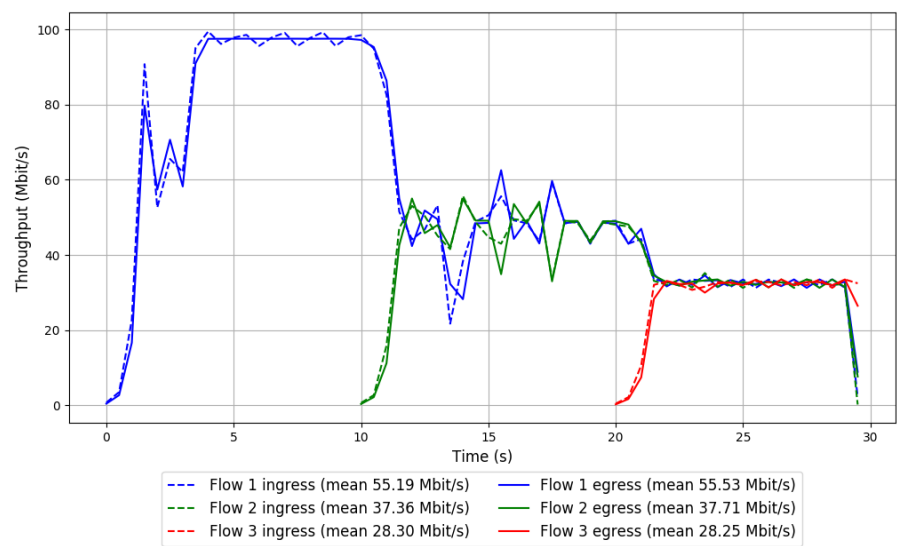


Run 2: Statistics of TCP BBR

Start at: 2018-03-21 00:13:28  
End at: 2018-03-21 00:13:58  
Local clock offset: -13.998 ms  
Remote clock offset: 7.855 ms

# Below is generated by plot.py at 2018-03-21 07:50:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.59 Mbit/s  
95th percentile per-packet one-way delay: 114.812 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 55.53 Mbit/s  
95th percentile per-packet one-way delay: 114.638 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 37.71 Mbit/s  
95th percentile per-packet one-way delay: 114.362 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 28.25 Mbit/s  
95th percentile per-packet one-way delay: 115.119 ms  
Loss rate: 2.26%

Run 2: Report of TCP BBR — Data Link

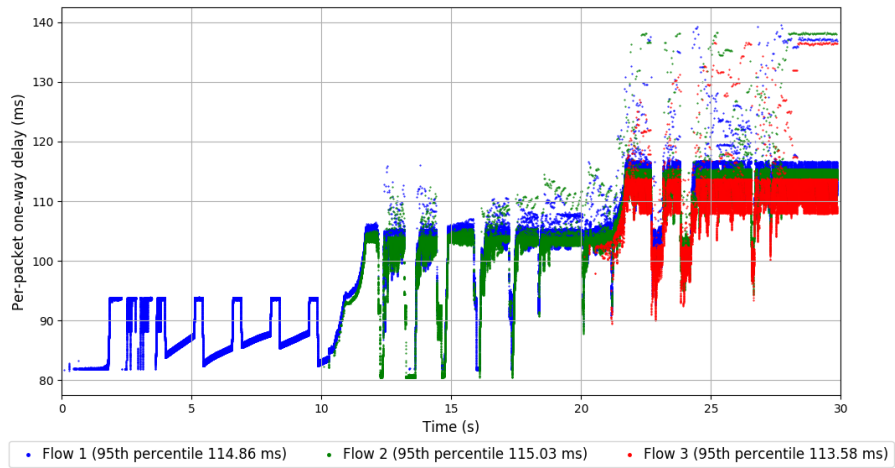
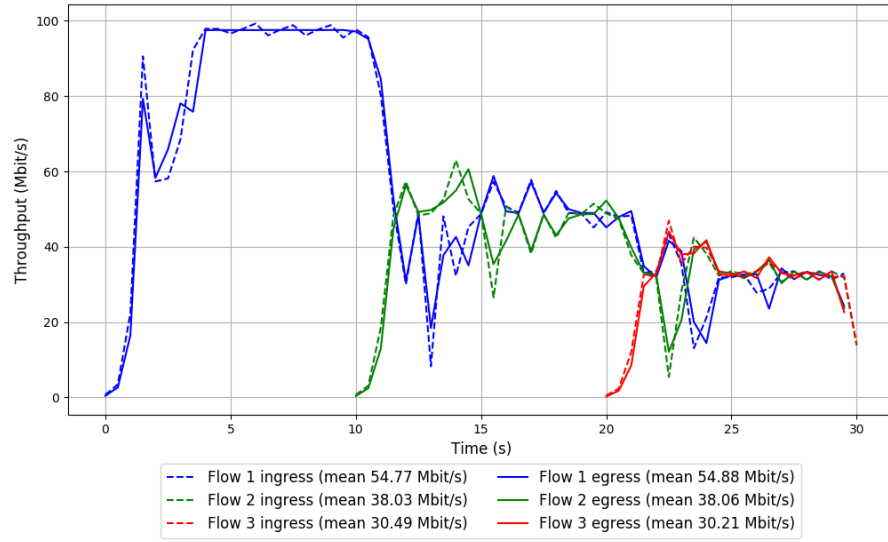


Run 3: Statistics of TCP BBR

Start at: 2018-03-21 00:37:19  
End at: 2018-03-21 00:37:49  
Local clock offset: -14.169 ms  
Remote clock offset: 7.04 ms

# Below is generated by plot.py at 2018-03-21 07:50:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.01 Mbit/s  
95th percentile per-packet one-way delay: 114.836 ms  
Loss rate: 1.39%  
-- Flow 1:  
Average throughput: 54.88 Mbit/s  
95th percentile per-packet one-way delay: 114.864 ms  
Loss rate: 0.47%  
-- Flow 2:  
Average throughput: 38.06 Mbit/s  
95th percentile per-packet one-way delay: 115.032 ms  
Loss rate: 1.96%  
-- Flow 3:  
Average throughput: 30.21 Mbit/s  
95th percentile per-packet one-way delay: 113.578 ms  
Loss rate: 4.90%

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

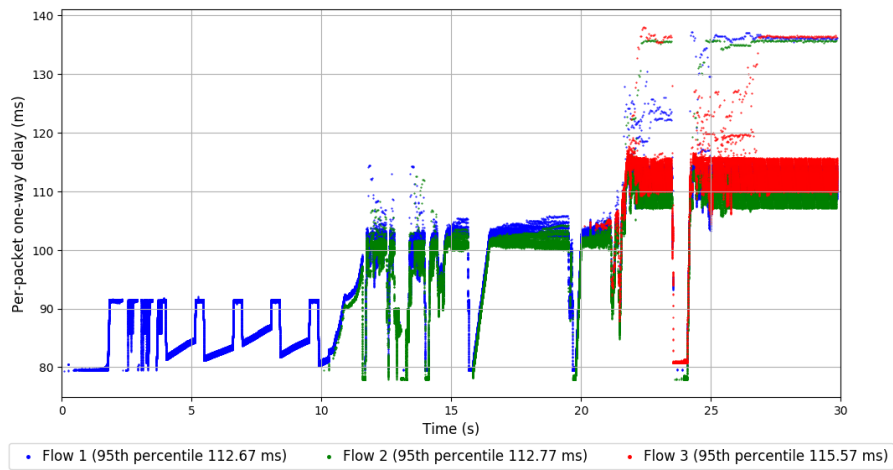
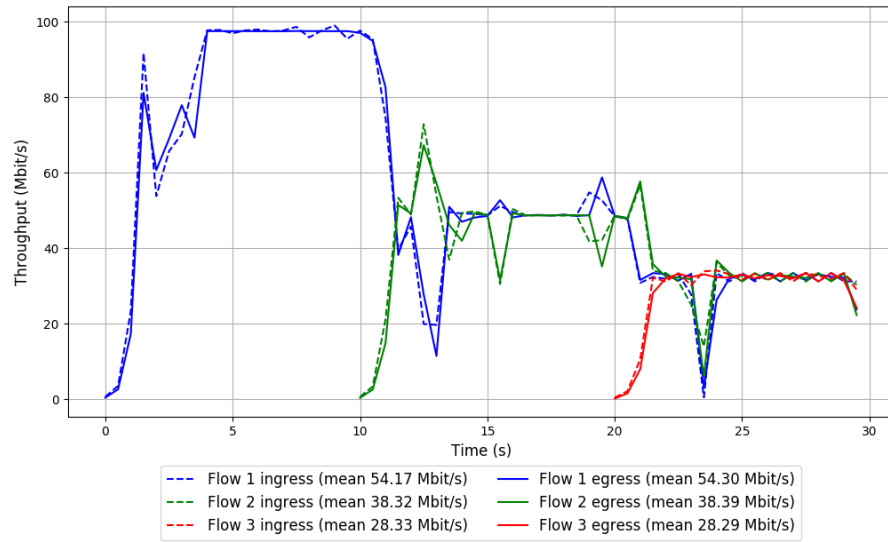


Run 4: Statistics of TCP BBR

Start at: 2018-03-21 01:01:21  
End at: 2018-03-21 01:01:51  
Local clock offset: -14.199 ms  
Remote clock offset: 6.997 ms

# Below is generated by plot.py at 2018-03-21 07:50:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.00 Mbit/s  
95th percentile per-packet one-way delay: 113.668 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 54.30 Mbit/s  
95th percentile per-packet one-way delay: 112.674 ms  
Loss rate: 0.44%  
-- Flow 2:  
Average throughput: 38.39 Mbit/s  
95th percentile per-packet one-way delay: 112.767 ms  
Loss rate: 0.96%  
-- Flow 3:  
Average throughput: 28.29 Mbit/s  
95th percentile per-packet one-way delay: 115.571 ms  
Loss rate: 2.38%

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



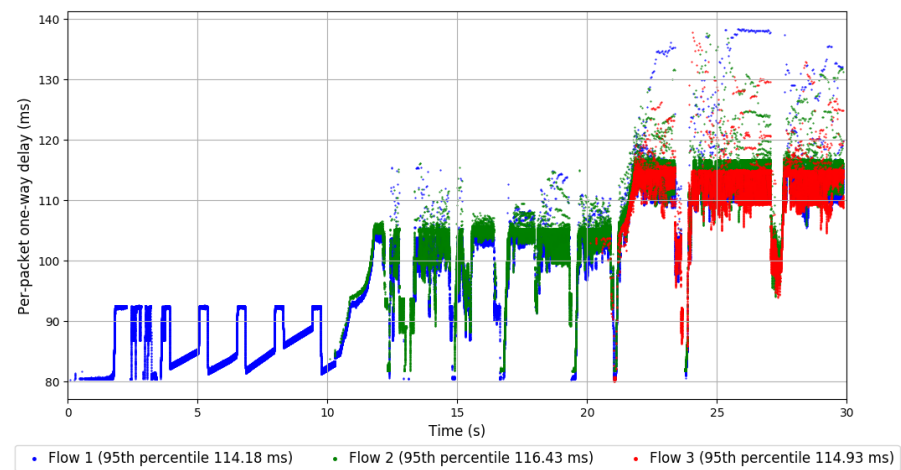
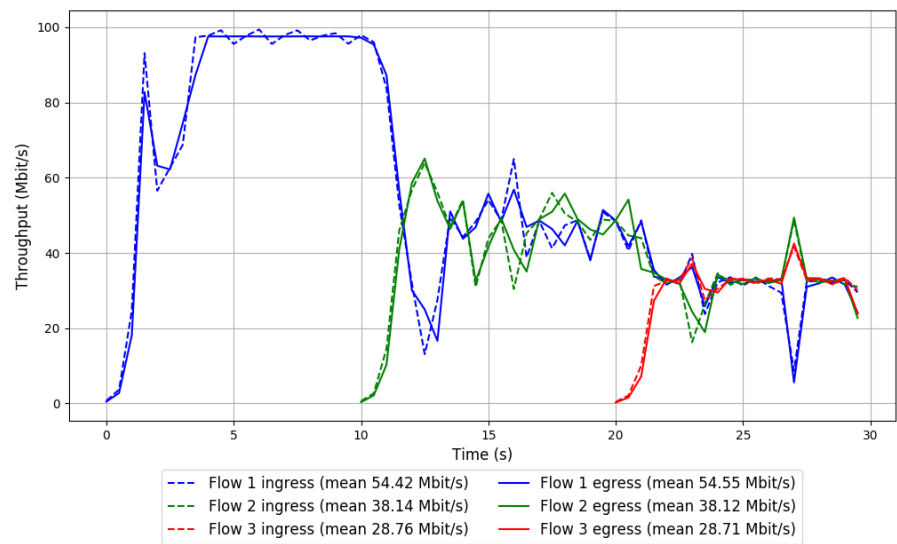
Run 5: Statistics of TCP BBR

Start at: 2018-03-21 01:25:14  
End at: 2018-03-21 01:25:44  
Local clock offset: -14.257 ms  
Remote clock offset: 5.334 ms

# Below is generated by plot.py at 2018-03-21 07:50:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.24 Mbit/s  
95th percentile per-packet one-way delay: 115.216 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 54.55 Mbit/s  
95th percentile per-packet one-way delay: 114.184 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 38.12 Mbit/s  
95th percentile per-packet one-way delay: 116.428 ms  
Loss rate: 0.99%  
-- Flow 3:  
Average throughput: 28.71 Mbit/s  
95th percentile per-packet one-way delay: 114.933 ms  
Loss rate: 2.45%



Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-03-21 01:49:08

End at: 2018-03-21 01:49:38

Local clock offset: -7.077 ms

Remote clock offset: 0.593 ms

# Below is generated by plot.py at 2018-03-21 07:50:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.90 Mbit/s

95th percentile per-packet one-way delay: 119.132 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 55.35 Mbit/s

95th percentile per-packet one-way delay: 118.373 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 37.66 Mbit/s

95th percentile per-packet one-way delay: 119.317 ms

Loss rate: 0.97%

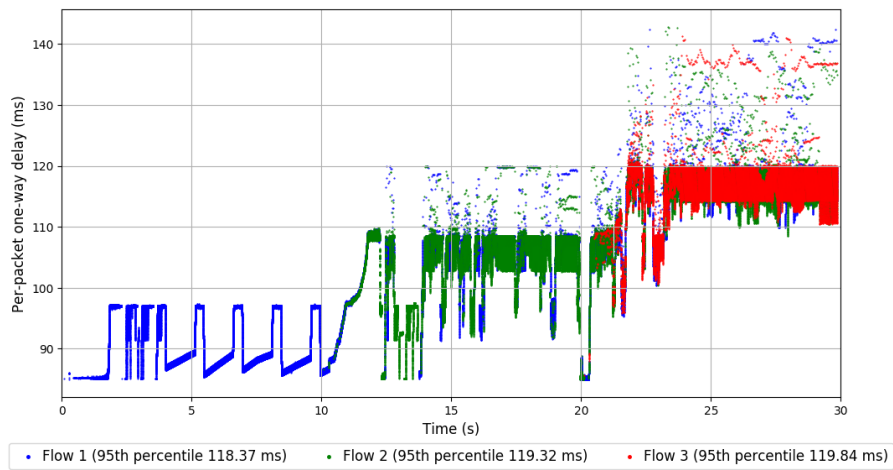
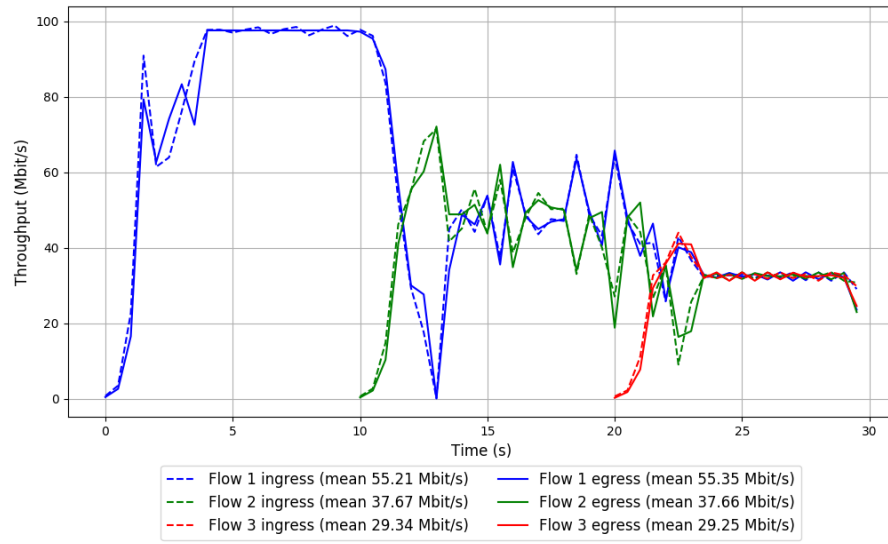
-- Flow 3:

Average throughput: 29.25 Mbit/s

95th percentile per-packet one-way delay: 119.844 ms

Loss rate: 2.30%

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

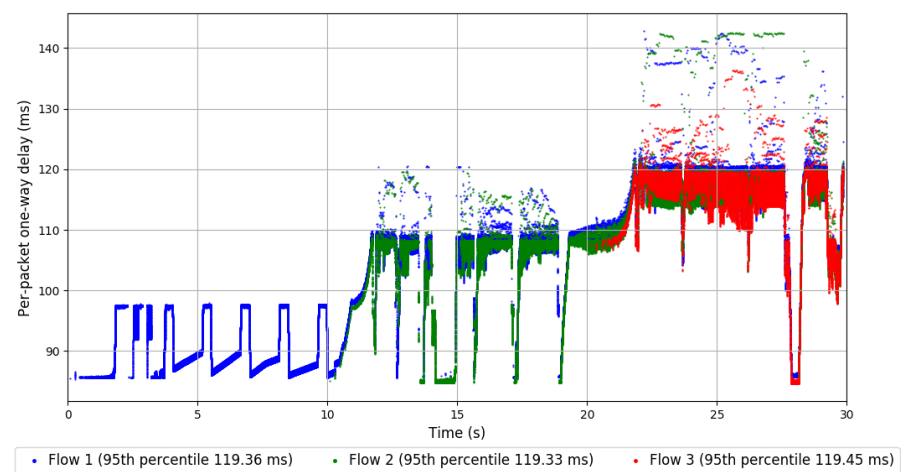
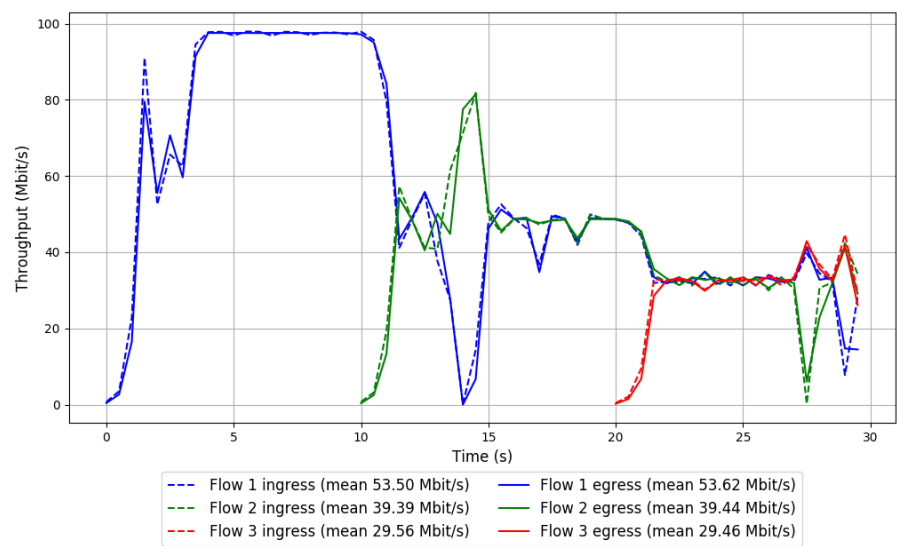


Run 7: Statistics of TCP BBR

Start at: 2018-03-21 02:13:07  
End at: 2018-03-21 02:13:37  
Local clock offset: -1.795 ms  
Remote clock offset: -0.259 ms

# Below is generated by plot.py at 2018-03-21 07:50:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.42 Mbit/s  
95th percentile per-packet one-way delay: 119.398 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 53.62 Mbit/s  
95th percentile per-packet one-way delay: 119.360 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 39.44 Mbit/s  
95th percentile per-packet one-way delay: 119.325 ms  
Loss rate: 0.91%  
-- Flow 3:  
Average throughput: 29.46 Mbit/s  
95th percentile per-packet one-way delay: 119.453 ms  
Loss rate: 2.41%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-03-21 02:36:59

End at: 2018-03-21 02:37:29

Local clock offset: -4.307 ms

Remote clock offset: 2.745 ms

# Below is generated by plot.py at 2018-03-21 07:50:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.92 Mbit/s

95th percentile per-packet one-way delay: 115.608 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 55.44 Mbit/s

95th percentile per-packet one-way delay: 115.017 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 37.51 Mbit/s

95th percentile per-packet one-way delay: 116.308 ms

Loss rate: 1.01%

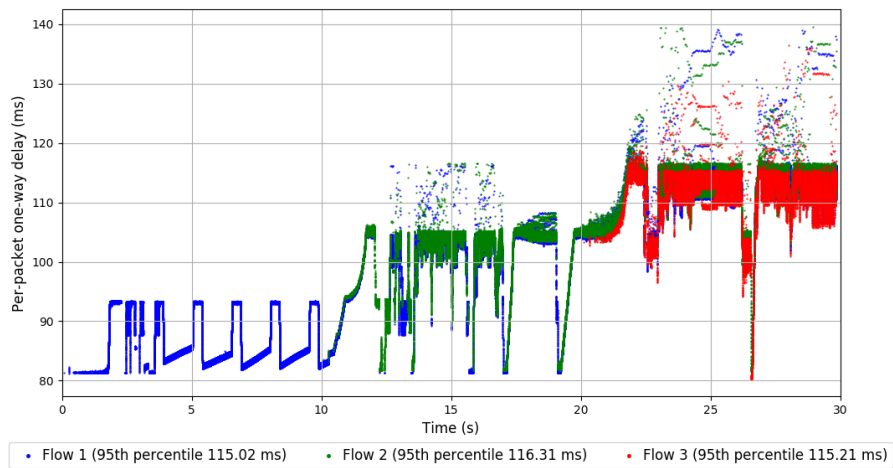
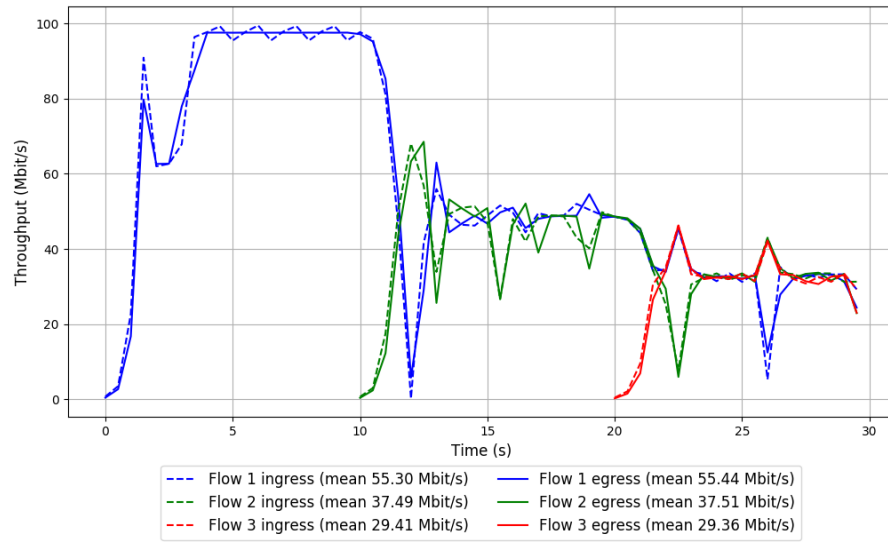
-- Flow 3:

Average throughput: 29.36 Mbit/s

95th percentile per-packet one-way delay: 115.214 ms

Loss rate: 2.30%

# Run 8: Report of TCP BBR — Data Link



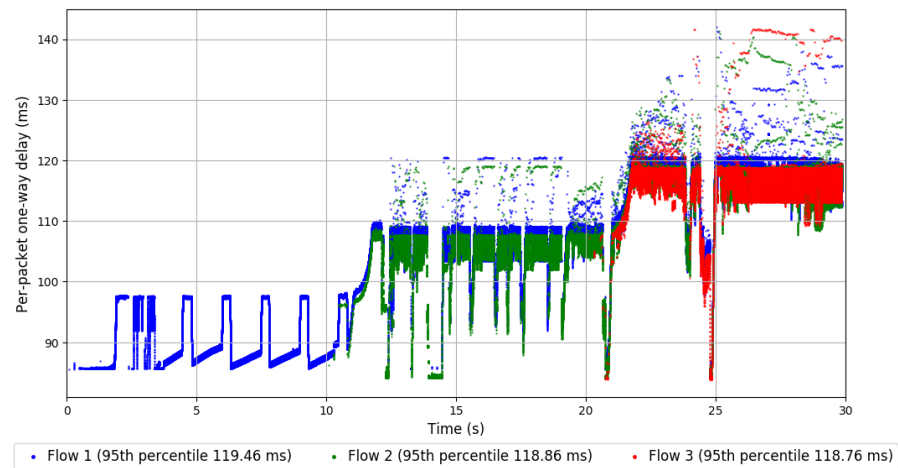
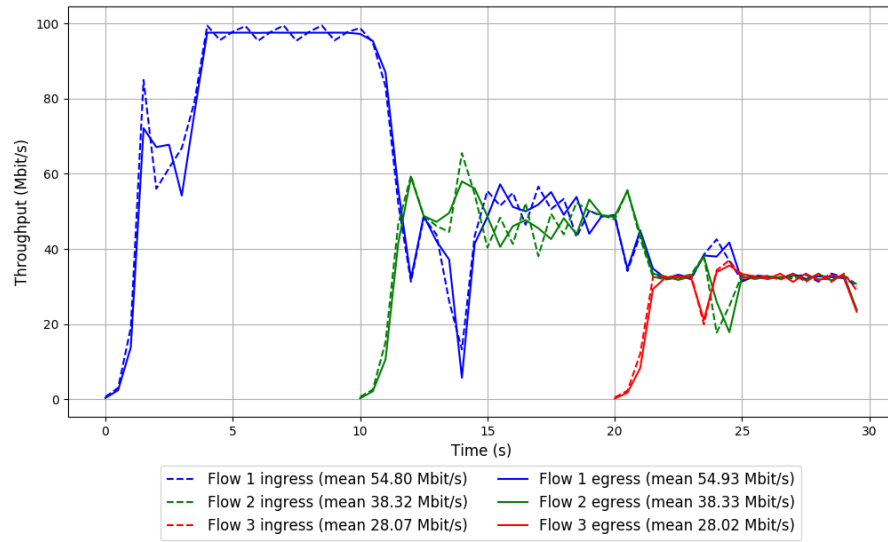
Run 9: Statistics of TCP BBR

Start at: 2018-03-21 03:00:55  
End at: 2018-03-21 03:01:25  
Local clock offset: -5.445 ms  
Remote clock offset: -1.998 ms

# Below is generated by plot.py at 2018-03-21 07:51:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.51 Mbit/s  
95th percentile per-packet one-way delay: 118.960 ms  
Loss rate: 0.78%  
-- Flow 1:  
Average throughput: 54.93 Mbit/s  
95th percentile per-packet one-way delay: 119.464 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 38.33 Mbit/s  
95th percentile per-packet one-way delay: 118.858 ms  
Loss rate: 0.93%  
-- Flow 3:  
Average throughput: 28.02 Mbit/s  
95th percentile per-packet one-way delay: 118.762 ms  
Loss rate: 2.41%



# Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-03-21 03:24:57

End at: 2018-03-21 03:25:27

Local clock offset: -5.543 ms

Remote clock offset: 0.969 ms

# Below is generated by plot.py at 2018-03-21 07:51:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.81 Mbit/s

95th percentile per-packet one-way delay: 114.955 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 54.77 Mbit/s

95th percentile per-packet one-way delay: 115.141 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 38.05 Mbit/s

95th percentile per-packet one-way delay: 114.697 ms

Loss rate: 0.90%

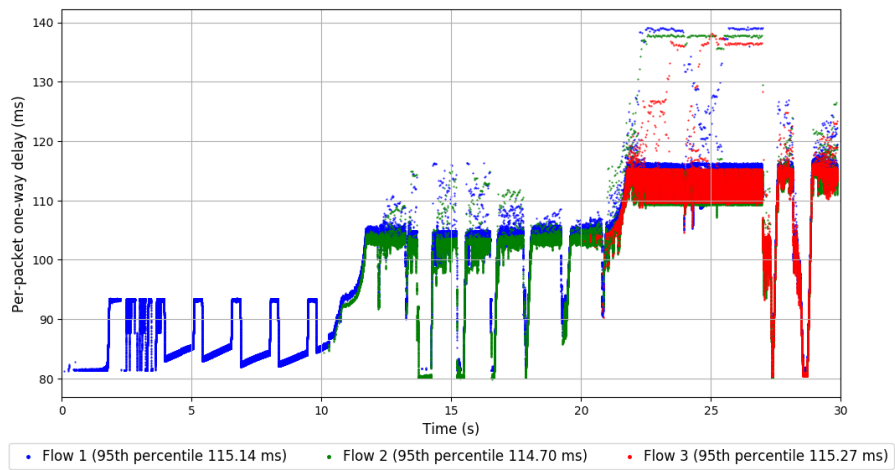
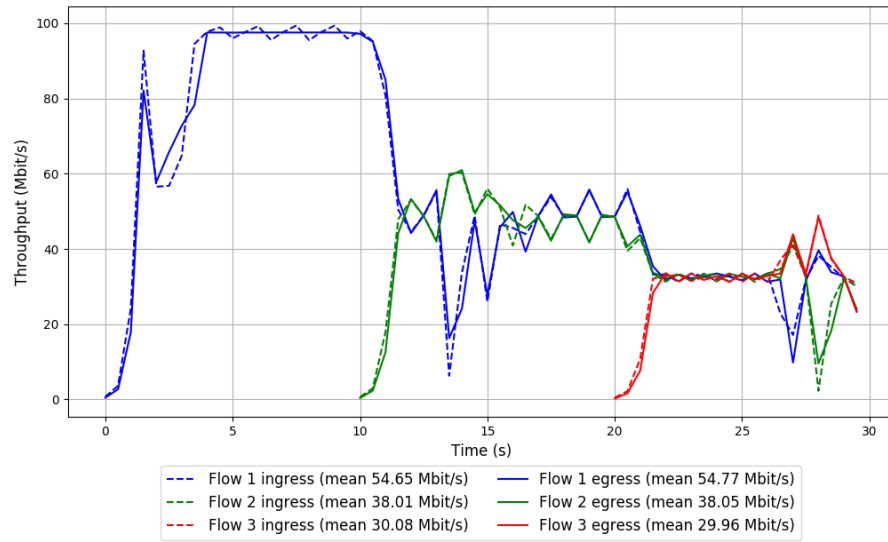
-- Flow 3:

Average throughput: 29.96 Mbit/s

95th percentile per-packet one-way delay: 115.269 ms

Loss rate: 2.48%

# Run 10: Report of TCP BBR — Data Link

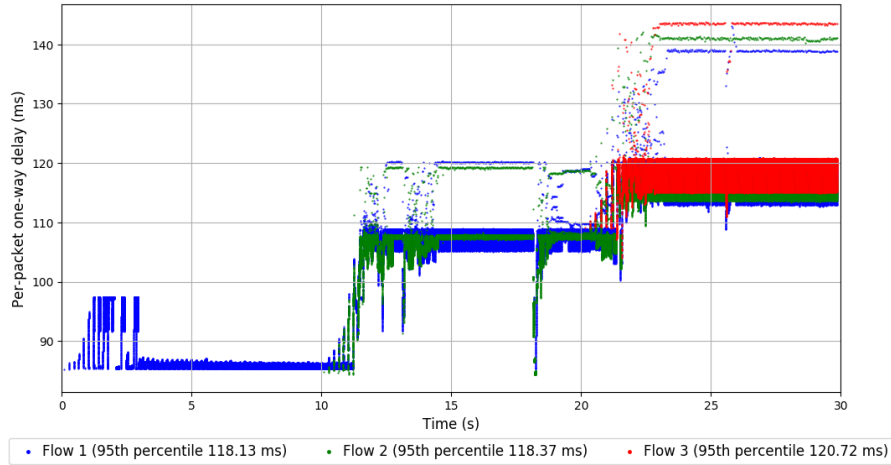
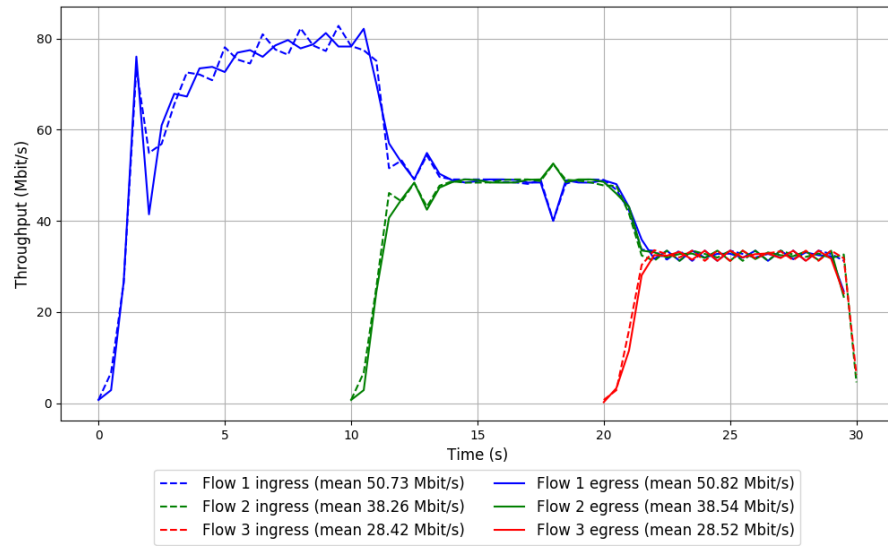


Run 1: Statistics of TCP Cubic

Start at: 2018-03-20 23:48:07  
End at: 2018-03-20 23:48:37  
Local clock offset: -13.224 ms  
Remote clock offset: 3.388 ms

# Below is generated by plot.py at 2018-03-21 07:51:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.70 Mbit/s  
95th percentile per-packet one-way delay: 119.580 ms  
Loss rate: 1.12%  
-- Flow 1:  
Average throughput: 50.82 Mbit/s  
95th percentile per-packet one-way delay: 118.129 ms  
Loss rate: 0.49%  
-- Flow 2:  
Average throughput: 38.54 Mbit/s  
95th percentile per-packet one-way delay: 118.369 ms  
Loss rate: 1.33%  
-- Flow 3:  
Average throughput: 28.52 Mbit/s  
95th percentile per-packet one-way delay: 120.717 ms  
Loss rate: 3.90%

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

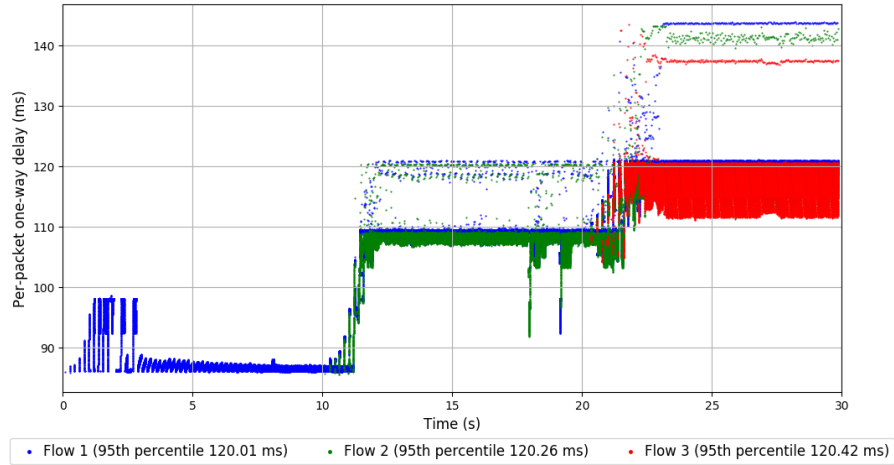
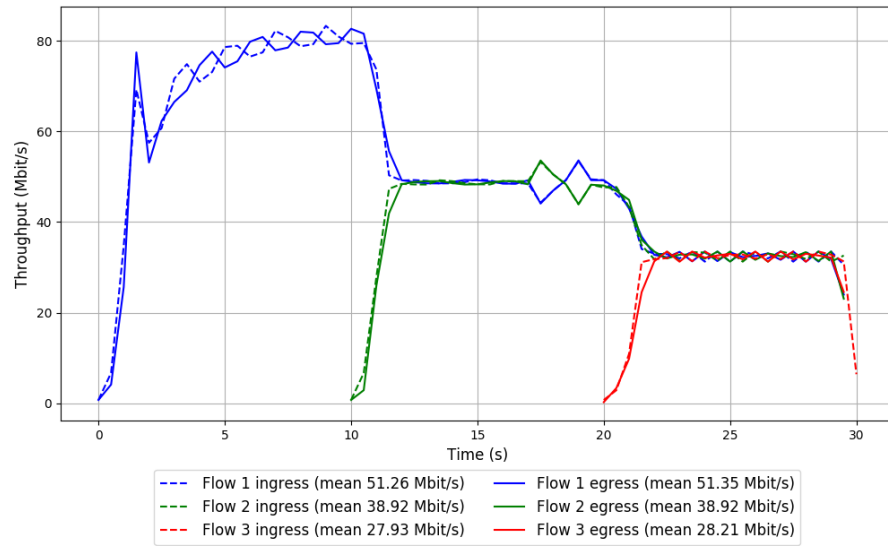


Run 2: Statistics of TCP Cubic

Start at: 2018-03-21 00:12:08  
End at: 2018-03-21 00:12:38  
Local clock offset: -14.03 ms  
Remote clock offset: 2.2 ms

# Below is generated by plot.py at 2018-03-21 07:51:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.39 Mbit/s  
95th percentile per-packet one-way delay: 120.228 ms  
Loss rate: 1.01%  
-- Flow 1:  
Average throughput: 51.35 Mbit/s  
95th percentile per-packet one-way delay: 120.013 ms  
Loss rate: 0.49%  
-- Flow 2:  
Average throughput: 38.92 Mbit/s  
95th percentile per-packet one-way delay: 120.260 ms  
Loss rate: 1.04%  
-- Flow 3:  
Average throughput: 28.21 Mbit/s  
95th percentile per-packet one-way delay: 120.421 ms  
Loss rate: 3.75%

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



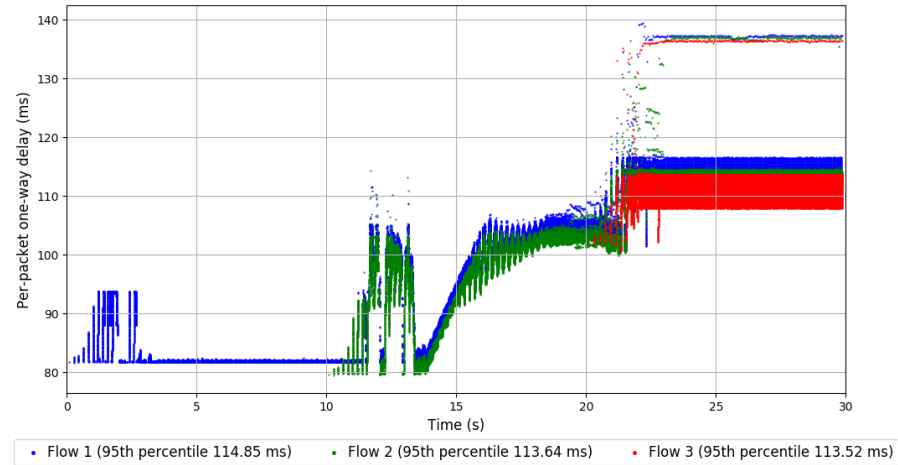
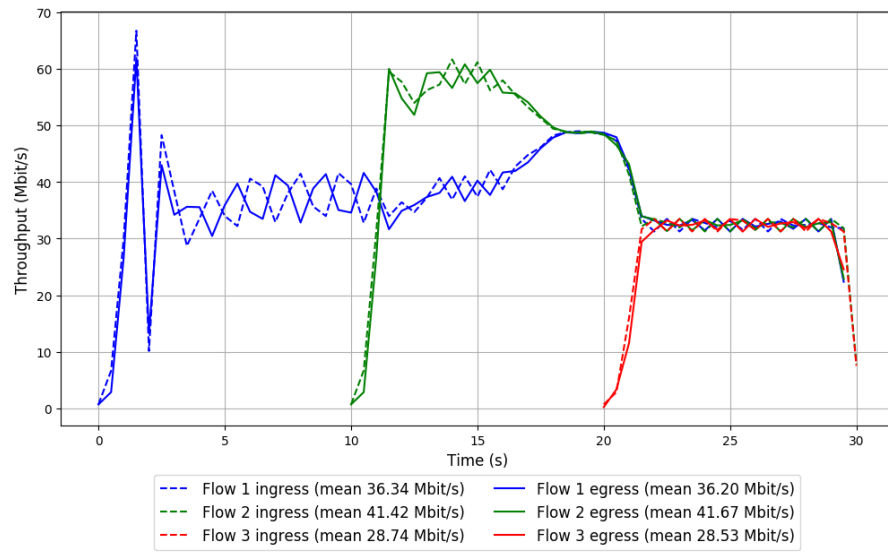
Run 3: Statistics of TCP Cubic

Start at: 2018-03-21 00:35:59  
End at: 2018-03-21 00:36:29  
Local clock offset: -14.235 ms  
Remote clock offset: 7.08 ms

# Below is generated by plot.py at 2018-03-21 07:51:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 73.17 Mbit/s  
95th percentile per-packet one-way delay: 114.082 ms  
Loss rate: 1.59%  
-- Flow 1:  
Average throughput: 36.20 Mbit/s  
95th percentile per-packet one-way delay: 114.852 ms  
Loss rate: 1.09%  
-- Flow 2:  
Average throughput: 41.67 Mbit/s  
95th percentile per-packet one-way delay: 113.645 ms  
Loss rate: 1.44%  
-- Flow 3:  
Average throughput: 28.53 Mbit/s  
95th percentile per-packet one-way delay: 113.515 ms  
Loss rate: 3.88%



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

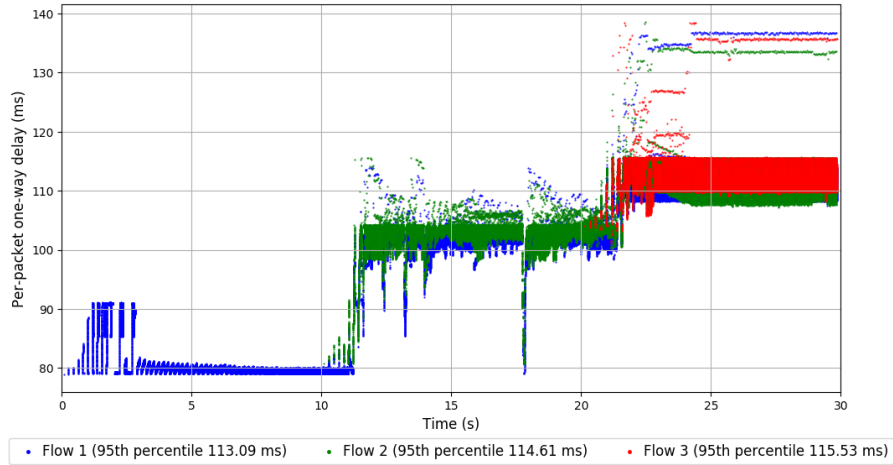
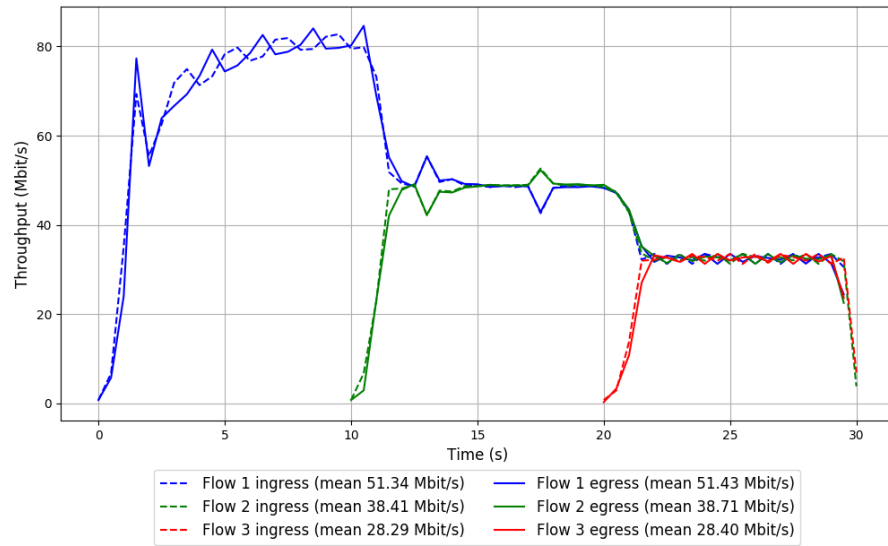


Run 4: Statistics of TCP Cubic

Start at: 2018-03-21 01:00:00  
End at: 2018-03-21 01:00:30  
Local clock offset: -14.19 ms  
Remote clock offset: 5.971 ms

# Below is generated by plot.py at 2018-03-21 07:51:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.38 Mbit/s  
95th percentile per-packet one-way delay: 114.112 ms  
Loss rate: 1.11%  
-- Flow 1:  
Average throughput: 51.43 Mbit/s  
95th percentile per-packet one-way delay: 113.095 ms  
Loss rate: 0.49%  
-- Flow 2:  
Average throughput: 38.71 Mbit/s  
95th percentile per-packet one-way delay: 114.613 ms  
Loss rate: 1.29%  
-- Flow 3:  
Average throughput: 28.40 Mbit/s  
95th percentile per-packet one-way delay: 115.525 ms  
Loss rate: 3.93%

# Run 4: Report of TCP Cubic — Data Link

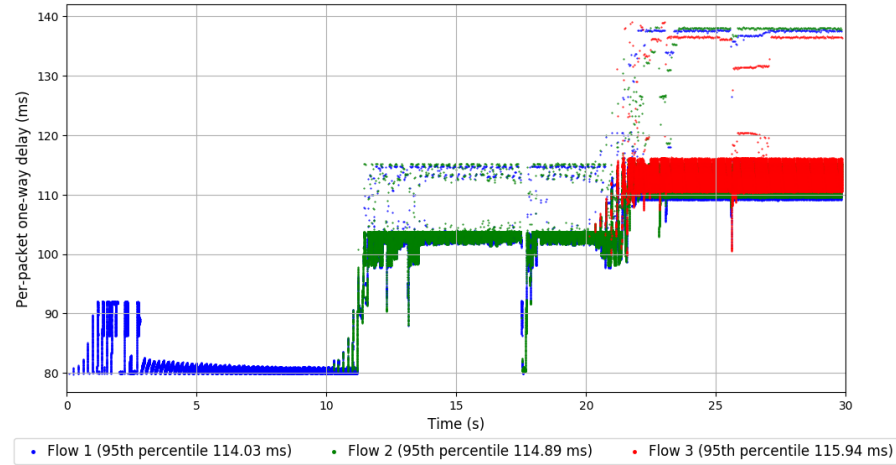
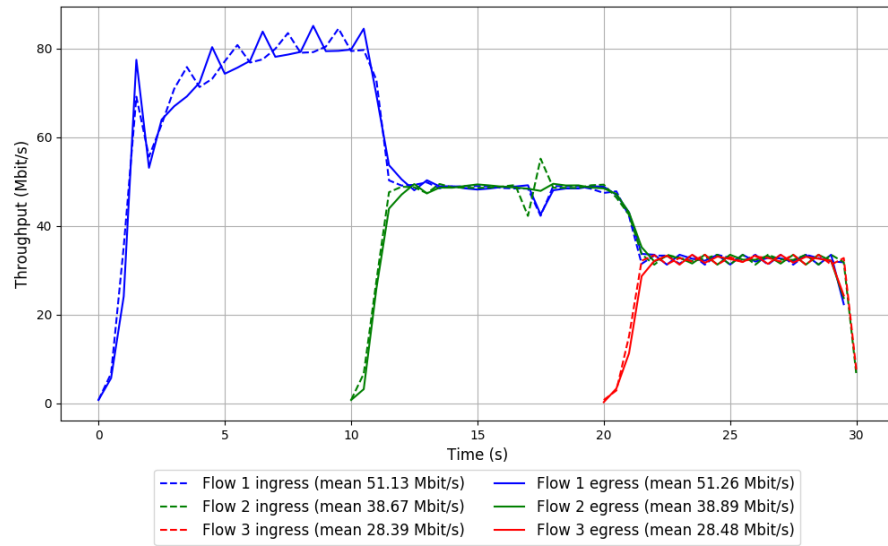


Run 5: Statistics of TCP Cubic

Start at: 2018-03-21 01:23:54  
End at: 2018-03-21 01:24:24  
Local clock offset: -14.348 ms  
Remote clock offset: 5.423 ms

# Below is generated by plot.py at 2018-03-21 07:51:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.33 Mbit/s  
95th percentile per-packet one-way delay: 114.687 ms  
Loss rate: 1.18%  
-- Flow 1:  
Average throughput: 51.26 Mbit/s  
95th percentile per-packet one-way delay: 114.033 ms  
Loss rate: 0.53%  
-- Flow 2:  
Average throughput: 38.89 Mbit/s  
95th percentile per-packet one-way delay: 114.890 ms  
Loss rate: 1.45%  
-- Flow 3:  
Average throughput: 28.48 Mbit/s  
95th percentile per-packet one-way delay: 115.939 ms  
Loss rate: 3.91%

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



Run 6: Statistics of TCP Cubic

Start at: 2018-03-21 01:47:48

End at: 2018-03-21 01:48:18

Local clock offset: -7.622 ms

Remote clock offset: 0.675 ms

# Below is generated by plot.py at 2018-03-21 07:51:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.13 Mbit/s

95th percentile per-packet one-way delay: 118.178 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 51.29 Mbit/s

95th percentile per-packet one-way delay: 116.947 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 38.55 Mbit/s

95th percentile per-packet one-way delay: 119.112 ms

Loss rate: 1.28%

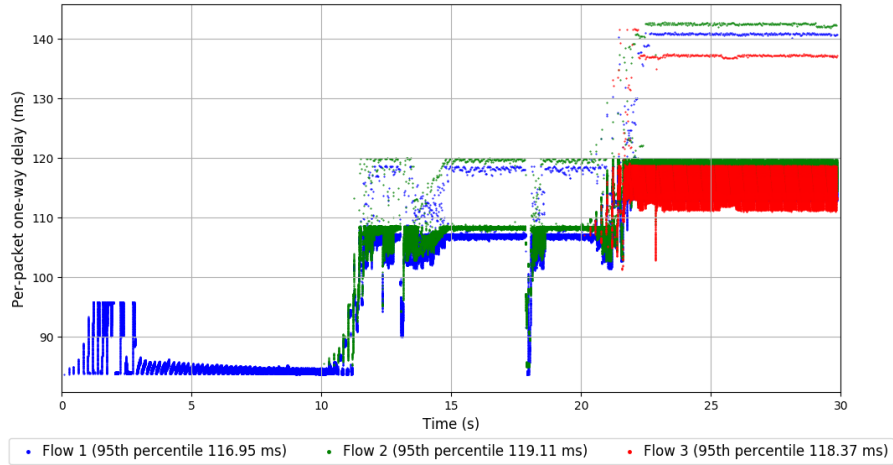
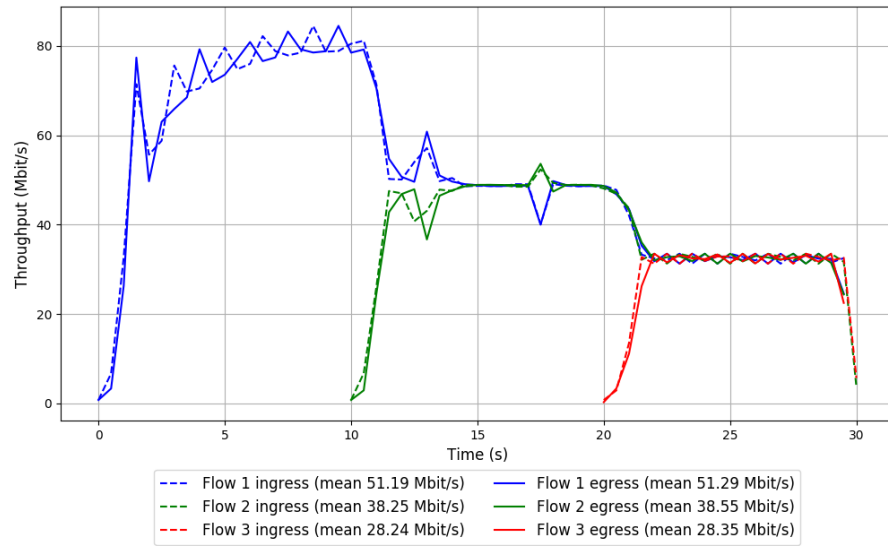
-- Flow 3:

Average throughput: 28.35 Mbit/s

95th percentile per-packet one-way delay: 118.373 ms

Loss rate: 3.91%

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



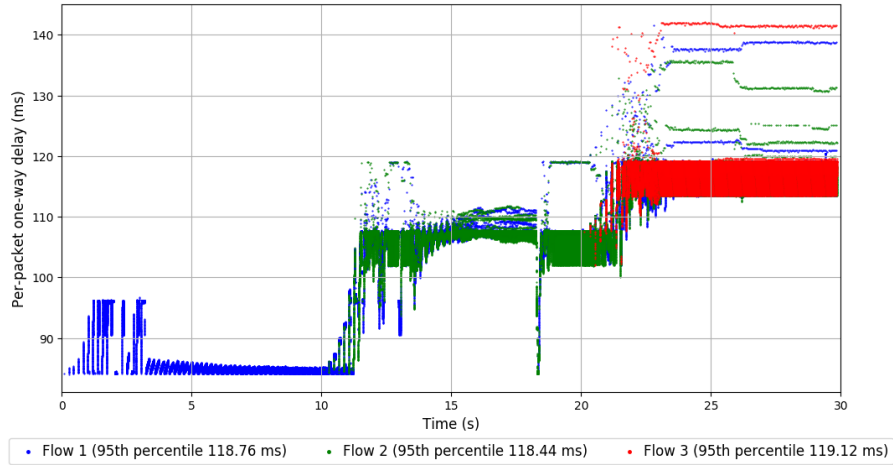
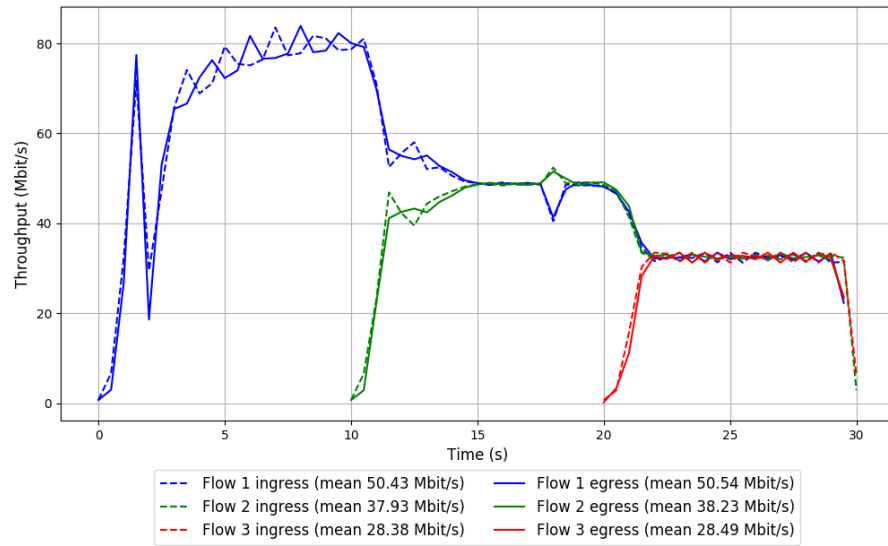
Run 7: Statistics of TCP Cubic

Start at: 2018-03-21 02:11:46  
End at: 2018-03-21 02:12:16  
Local clock offset: -1.628 ms  
Remote clock offset: -0.199 ms

# Below is generated by plot.py at 2018-03-21 07:52:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.19 Mbit/s  
95th percentile per-packet one-way delay: 118.915 ms  
Loss rate: 1.13%  
-- Flow 1:  
Average throughput: 50.54 Mbit/s  
95th percentile per-packet one-way delay: 118.764 ms  
Loss rate: 0.52%  
-- Flow 2:  
Average throughput: 38.23 Mbit/s  
95th percentile per-packet one-way delay: 118.444 ms  
Loss rate: 1.30%  
-- Flow 3:  
Average throughput: 28.49 Mbit/s  
95th percentile per-packet one-way delay: 119.121 ms  
Loss rate: 3.88%



# Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-03-21 02:35:39

End at: 2018-03-21 02:36:09

Local clock offset: -4.382 ms

Remote clock offset: -1.04 ms

# Below is generated by plot.py at 2018-03-21 07:53:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.68 Mbit/s

95th percentile per-packet one-way delay: 118.504 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 50.08 Mbit/s

95th percentile per-packet one-way delay: 117.344 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 39.64 Mbit/s

95th percentile per-packet one-way delay: 118.696 ms

Loss rate: 1.39%

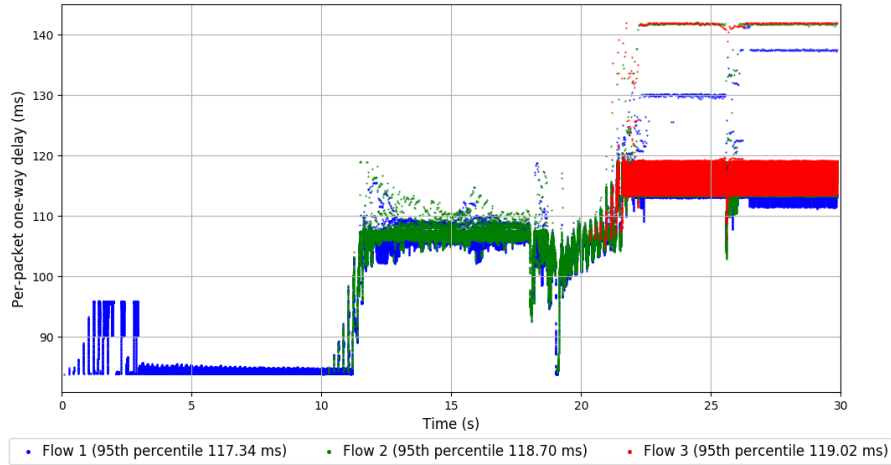
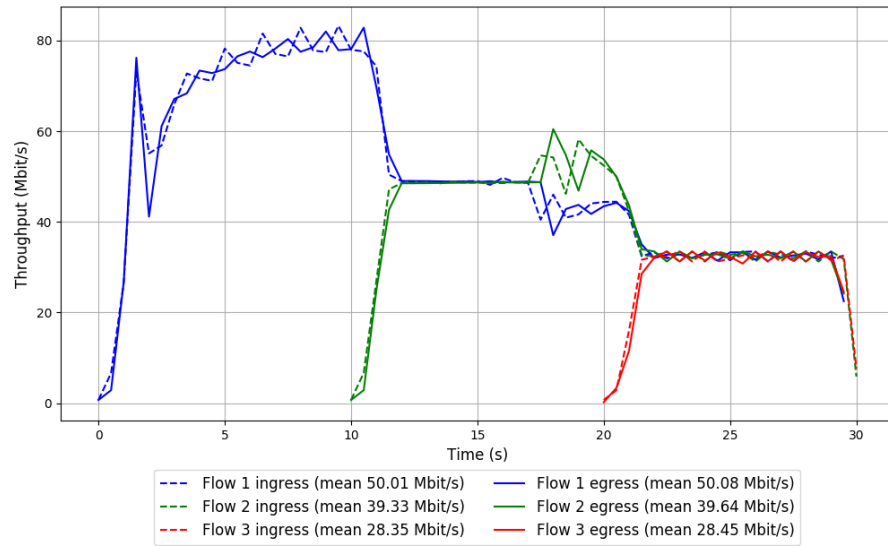
-- Flow 3:

Average throughput: 28.45 Mbit/s

95th percentile per-packet one-way delay: 119.024 ms

Loss rate: 3.92%

# Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-03-21 02:59:35

End at: 2018-03-21 03:00:05

Local clock offset: -5.416 ms

Remote clock offset: 1.934 ms

# Below is generated by plot.py at 2018-03-21 07:53:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.21 Mbit/s

95th percentile per-packet one-way delay: 114.567 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 51.12 Mbit/s

95th percentile per-packet one-way delay: 114.215 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 38.88 Mbit/s

95th percentile per-packet one-way delay: 114.603 ms

Loss rate: 1.32%

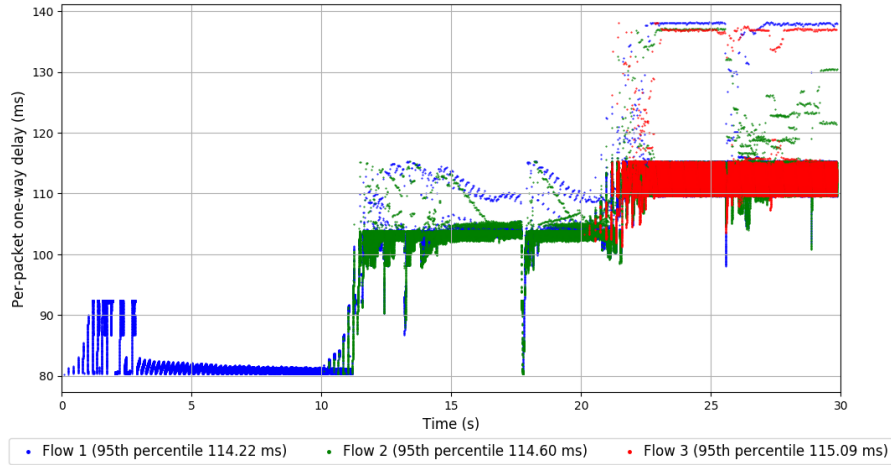
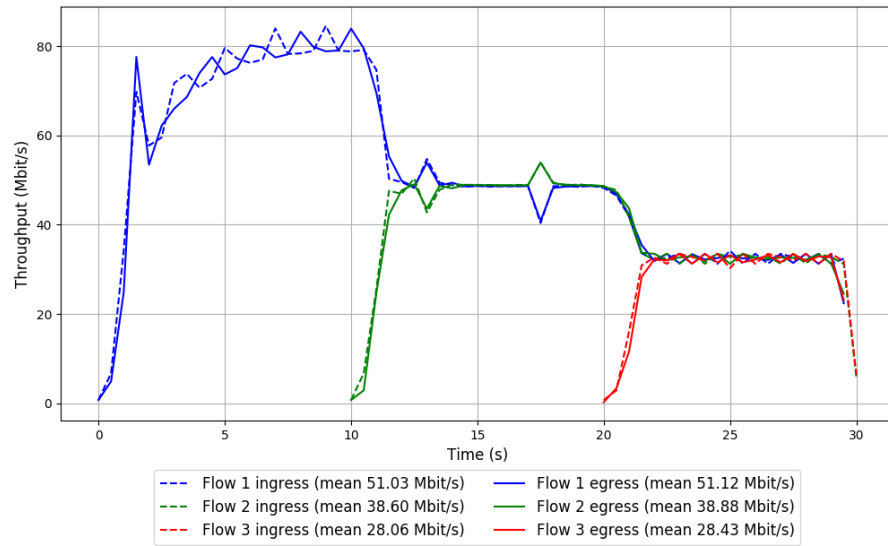
-- Flow 3:

Average throughput: 28.43 Mbit/s

95th percentile per-packet one-way delay: 115.091 ms

Loss rate: 3.93%

# Run 9: Report of TCP Cubic — Data Link

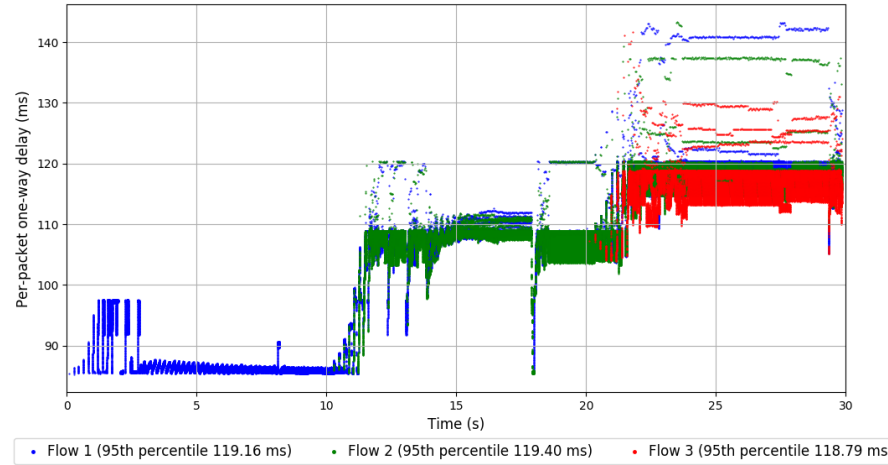
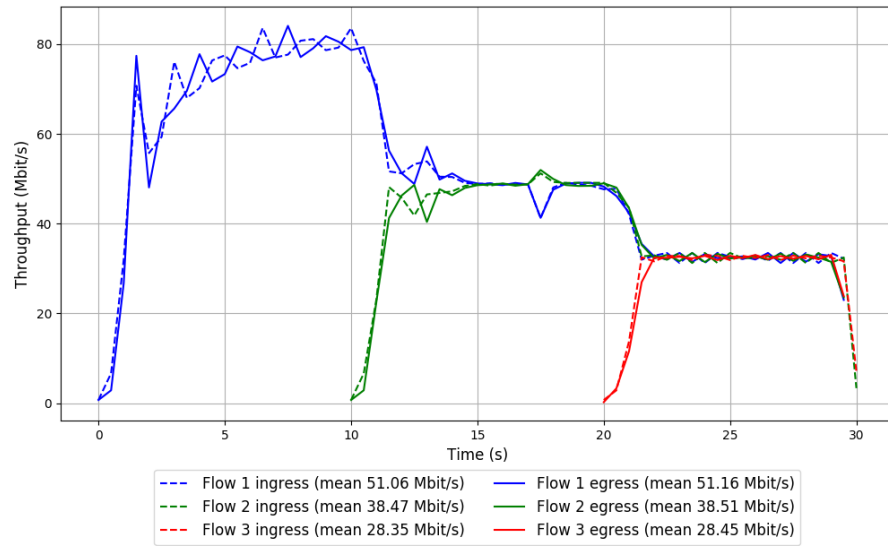


Run 10: Statistics of TCP Cubic

Start at: 2018-03-21 03:23:37  
End at: 2018-03-21 03:24:07  
Local clock offset: -5.519 ms  
Remote clock offset: -2.864 ms

# Below is generated by plot.py at 2018-03-21 07:53:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.00 Mbit/s  
95th percentile per-packet one-way delay: 119.181 ms  
Loss rate: 1.13%  
-- Flow 1:  
Average throughput: 51.16 Mbit/s  
95th percentile per-packet one-way delay: 119.159 ms  
Loss rate: 0.54%  
-- Flow 2:  
Average throughput: 38.51 Mbit/s  
95th percentile per-packet one-way delay: 119.401 ms  
Loss rate: 1.28%  
-- Flow 3:  
Average throughput: 28.45 Mbit/s  
95th percentile per-packet one-way delay: 118.792 ms  
Loss rate: 3.89%

# Run 10: Report of TCP Cubic — Data Link



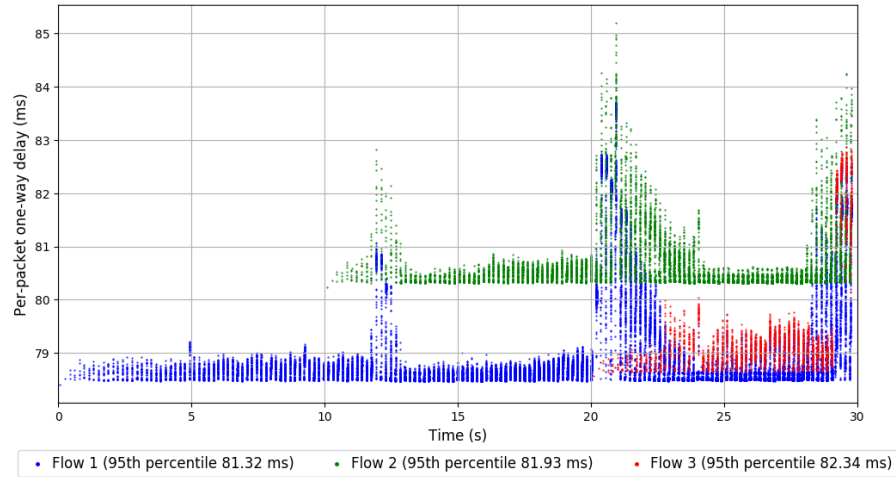
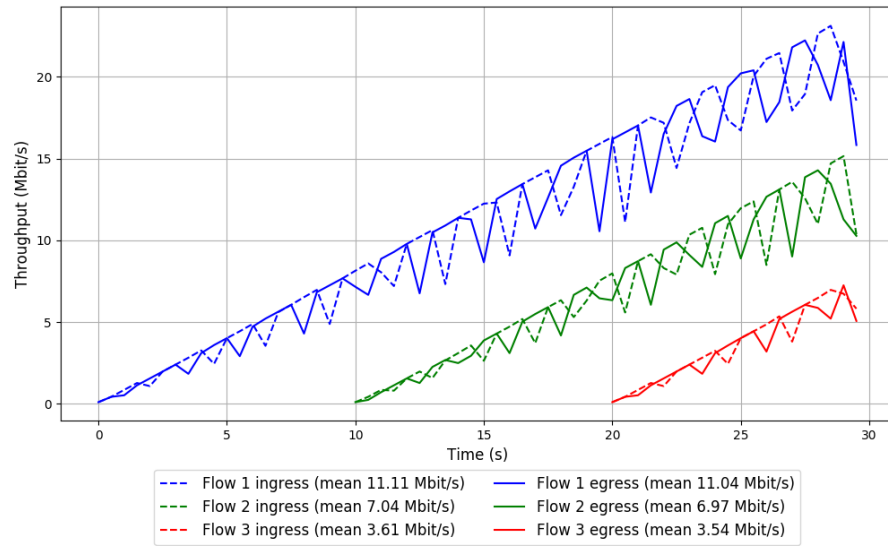
```
Run 1: Statistics of LEDBAT

Start at: 2018-03-20 23:58:45
End at: 2018-03-20 23:59:15
Local clock offset: -13.5 ms
Remote clock offset: 8.441 ms

# Below is generated by plot.py at 2018-03-21 07:53:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.81 Mbit/s
95th percentile per-packet one-way delay: 81.708 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 11.04 Mbit/s
95th percentile per-packet one-way delay: 81.324 ms
Loss rate: 1.20%
-- Flow 2:
Average throughput: 6.97 Mbit/s
95th percentile per-packet one-way delay: 81.928 ms
Loss rate: 1.86%
-- Flow 3:
Average throughput: 3.54 Mbit/s
95th percentile per-packet one-way delay: 82.339 ms
Loss rate: 3.66%
```



## Run 1: Report of LEDBAT — Data Link

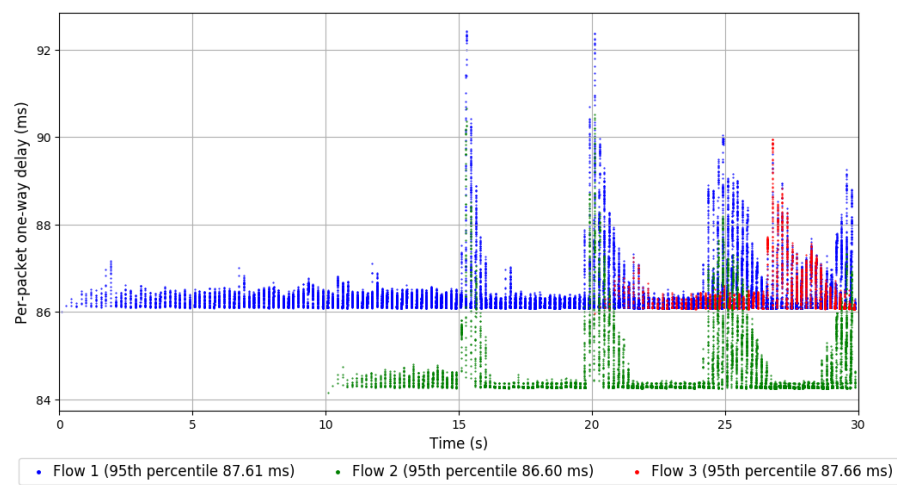
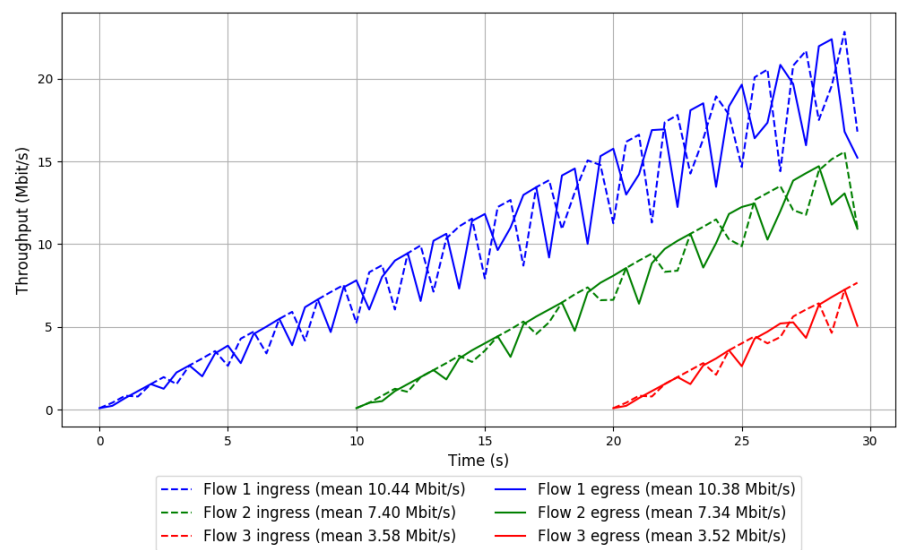


Run 2: Statistics of LEDBAT

Start at: 2018-03-21 00:22:37  
End at: 2018-03-21 00:23:07  
Local clock offset: -14.108 ms  
Remote clock offset: 1.833 ms

# Below is generated by plot.py at 2018-03-21 07:53:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 16.40 Mbit/s  
95th percentile per-packet one-way delay: 87.423 ms  
Loss rate: 1.56%  
-- Flow 1:  
Average throughput: 10.38 Mbit/s  
95th percentile per-packet one-way delay: 87.614 ms  
Loss rate: 1.21%  
-- Flow 2:  
Average throughput: 7.34 Mbit/s  
95th percentile per-packet one-way delay: 86.600 ms  
Loss rate: 1.80%  
-- Flow 3:  
Average throughput: 3.52 Mbit/s  
95th percentile per-packet one-way delay: 87.656 ms  
Loss rate: 3.66%

Run 2: Report of LEDBAT — Data Link

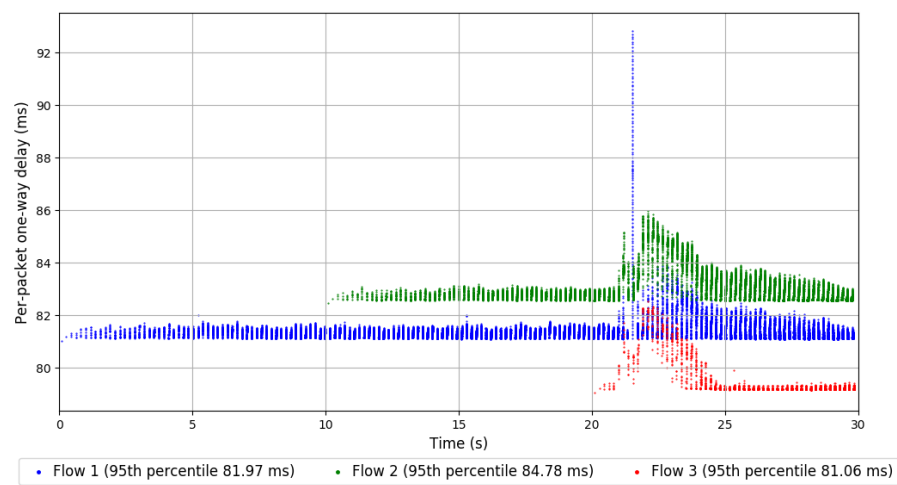
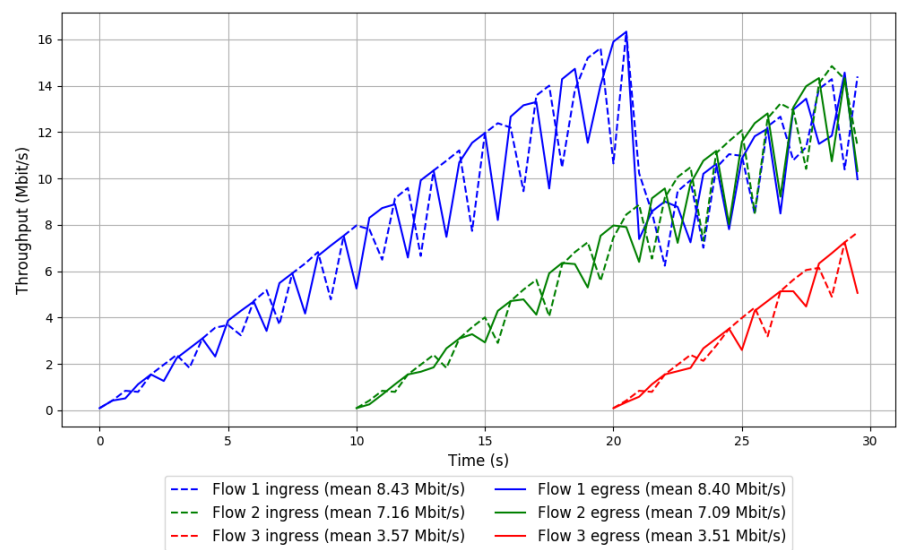


Run 3: Statistics of LEDBAT

Start at: 2018-03-21 00:46:30  
End at: 2018-03-21 00:47:00  
Local clock offset: -14.18 ms  
Remote clock offset: 5.806 ms

# Below is generated by plot.py at 2018-03-21 07:53:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 14.23 Mbit/s  
95th percentile per-packet one-way delay: 83.696 ms  
Loss rate: 1.50%  
-- Flow 1:  
Average throughput: 8.40 Mbit/s  
95th percentile per-packet one-way delay: 81.965 ms  
Loss rate: 1.01%  
-- Flow 2:  
Average throughput: 7.09 Mbit/s  
95th percentile per-packet one-way delay: 84.775 ms  
Loss rate: 1.84%  
-- Flow 3:  
Average throughput: 3.51 Mbit/s  
95th percentile per-packet one-way delay: 81.063 ms  
Loss rate: 3.67%

Run 3: Report of LEDBAT — Data Link

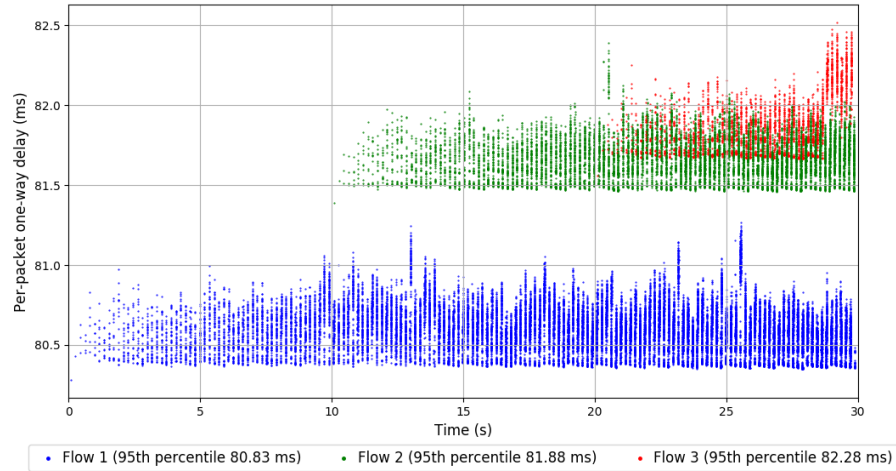
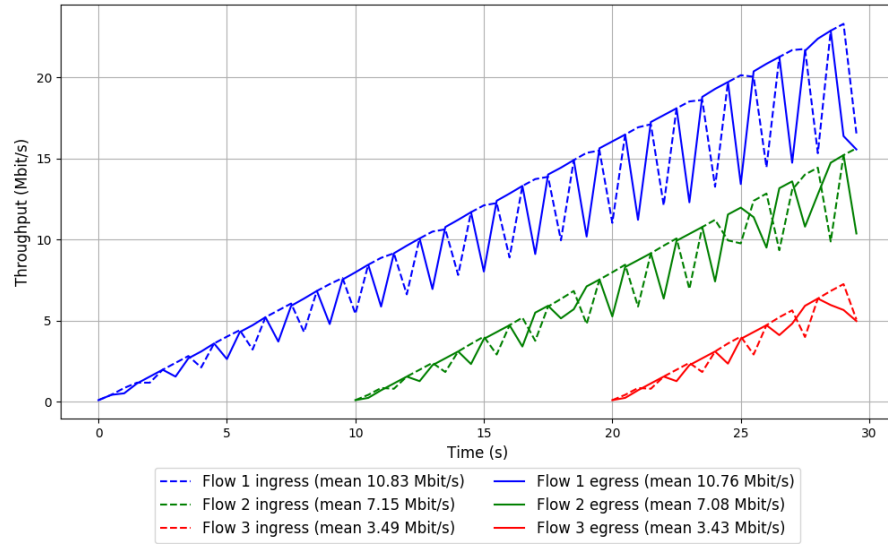


Run 4: Statistics of LEDBAT

Start at: 2018-03-21 01:10:31  
End at: 2018-03-21 01:11:01  
Local clock offset: -14.225 ms  
Remote clock offset: 5.877 ms

# Below is generated by plot.py at 2018-03-21 07:53:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 16.57 Mbit/s  
95th percentile per-packet one-way delay: 81.880 ms  
Loss rate: 1.57%  
-- Flow 1:  
Average throughput: 10.76 Mbit/s  
95th percentile per-packet one-way delay: 80.832 ms  
Loss rate: 1.22%  
-- Flow 2:  
Average throughput: 7.08 Mbit/s  
95th percentile per-packet one-way delay: 81.883 ms  
Loss rate: 1.84%  
-- Flow 3:  
Average throughput: 3.43 Mbit/s  
95th percentile per-packet one-way delay: 82.277 ms  
Loss rate: 3.73%

# Run 4: Report of LEDBAT — Data Link



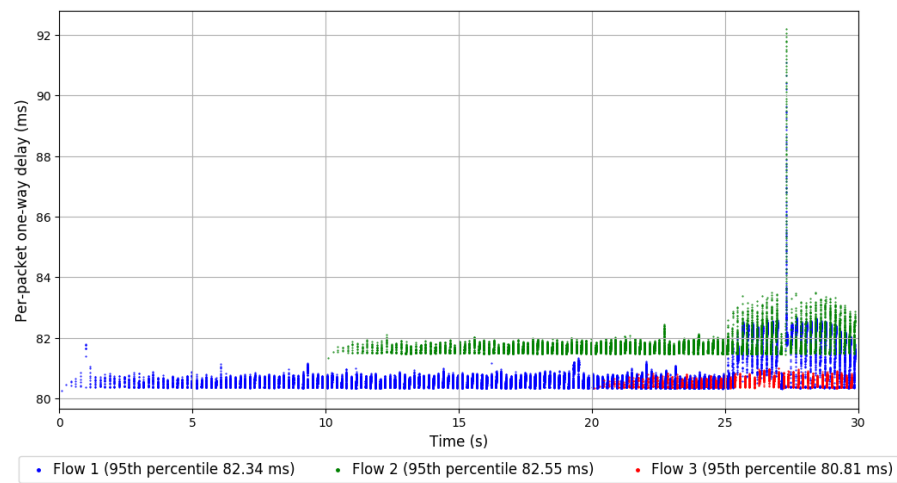
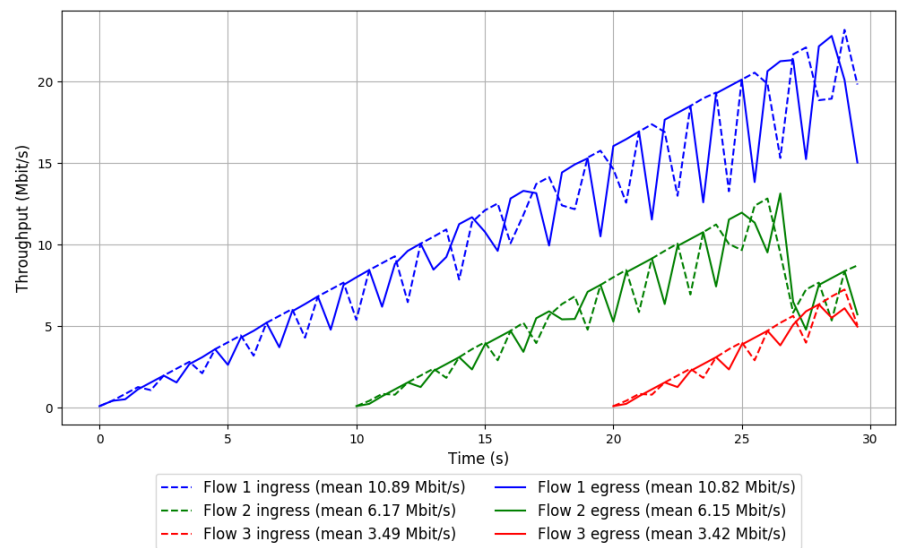
Run 5: Statistics of LEDBAT

Start at: 2018-03-21 01:34:26  
End at: 2018-03-21 01:34:56  
Local clock offset: -14.277 ms  
Remote clock offset: 5.014 ms

# Below is generated by plot.py at 2018-03-21 07:53:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 16.01 Mbit/s  
95th percentile per-packet one-way delay: 82.358 ms  
Loss rate: 1.39%  
-- Flow 1:  
Average throughput: 10.82 Mbit/s  
95th percentile per-packet one-way delay: 82.345 ms  
Loss rate: 1.21%  
-- Flow 2:  
Average throughput: 6.15 Mbit/s  
95th percentile per-packet one-way delay: 82.553 ms  
Loss rate: 1.23%  
-- Flow 3:  
Average throughput: 3.42 Mbit/s  
95th percentile per-packet one-way delay: 80.810 ms  
Loss rate: 3.73%



Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-03-21 01:58:22

End at: 2018-03-21 01:58:52

Local clock offset: -4.112 ms

Remote clock offset: 4.031 ms

# Below is generated by plot.py at 2018-03-21 07:53:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 16.54 Mbit/s

95th percentile per-packet one-way delay: 80.828 ms

Loss rate: 1.57%

-- Flow 1:

Average throughput: 10.78 Mbit/s

95th percentile per-packet one-way delay: 80.939 ms

Loss rate: 1.22%

-- Flow 2:

Average throughput: 7.05 Mbit/s

95th percentile per-packet one-way delay: 80.305 ms

Loss rate: 1.84%

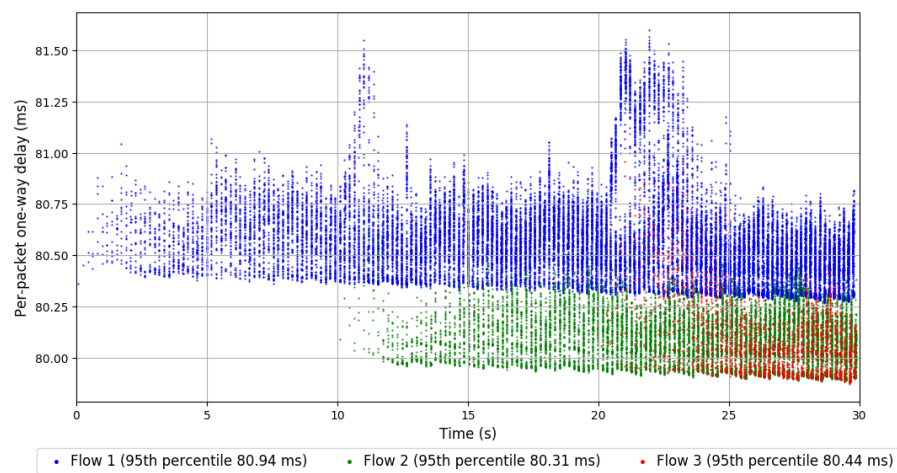
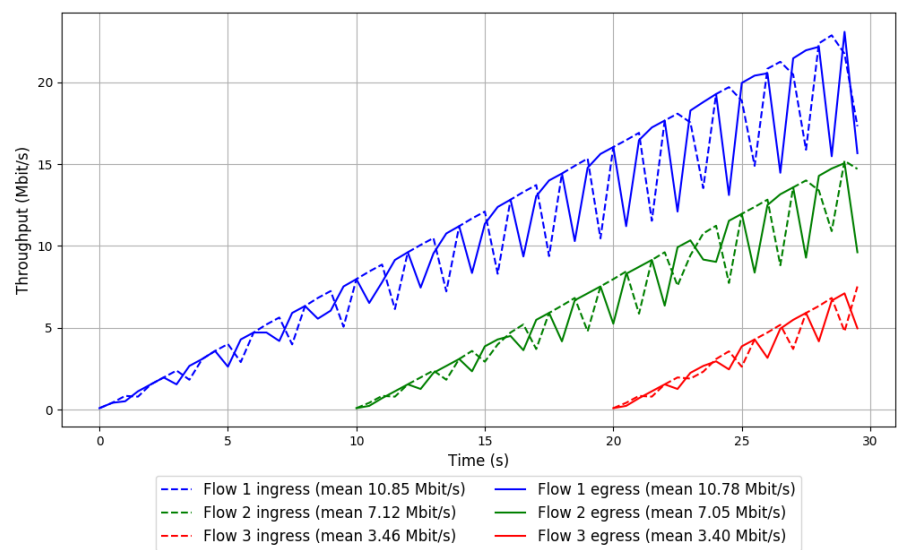
-- Flow 3:

Average throughput: 3.40 Mbit/s

95th percentile per-packet one-way delay: 80.437 ms

Loss rate: 3.73%

Run 6: Report of LEDBAT — Data Link

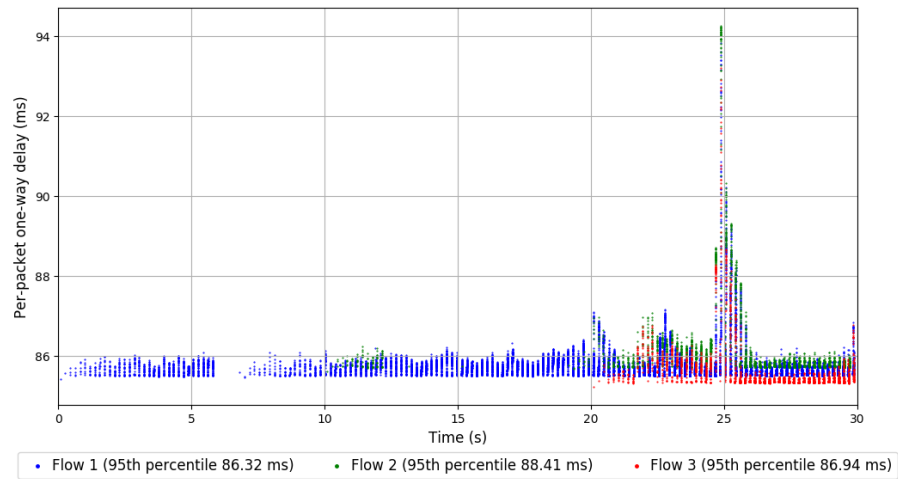
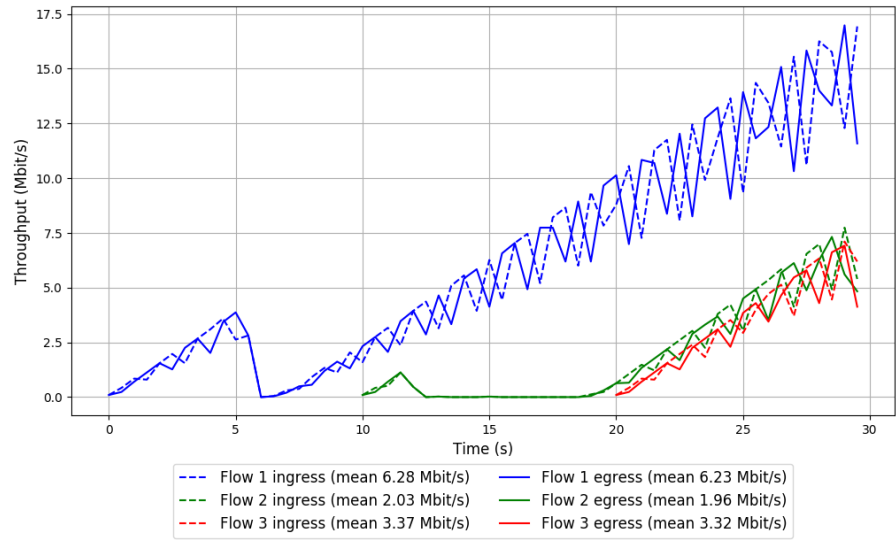


Run 7: Statistics of LEDBAT

Start at: 2018-03-21 02:22:18  
End at: 2018-03-21 02:22:48  
Local clock offset: -4.128 ms  
Remote clock offset: -0.675 ms

# Below is generated by plot.py at 2018-03-21 07:53:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.62 Mbit/s  
95th percentile per-packet one-way delay: 86.579 ms  
Loss rate: 1.97%  
-- Flow 1:  
Average throughput: 6.23 Mbit/s  
95th percentile per-packet one-way delay: 86.317 ms  
Loss rate: 1.42%  
-- Flow 2:  
Average throughput: 1.96 Mbit/s  
95th percentile per-packet one-way delay: 88.406 ms  
Loss rate: 3.36%  
-- Flow 3:  
Average throughput: 3.32 Mbit/s  
95th percentile per-packet one-way delay: 86.935 ms  
Loss rate: 3.36%

## Run 7: Report of LEDBAT — Data Link

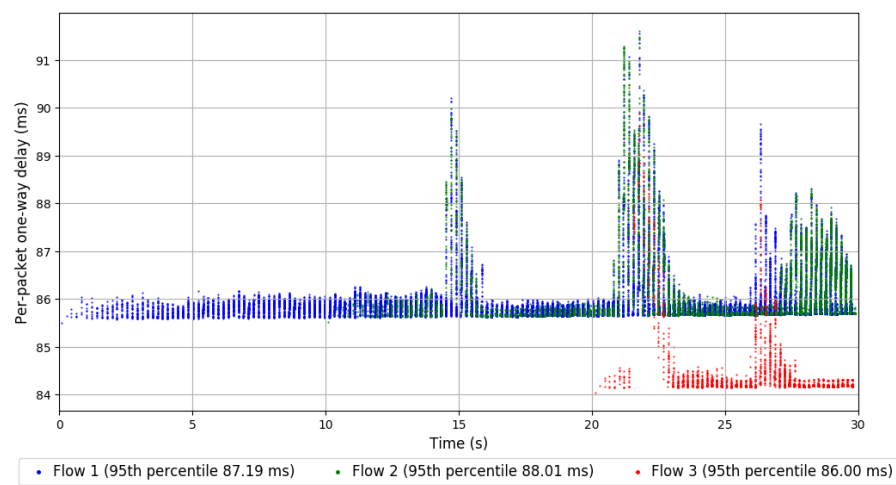
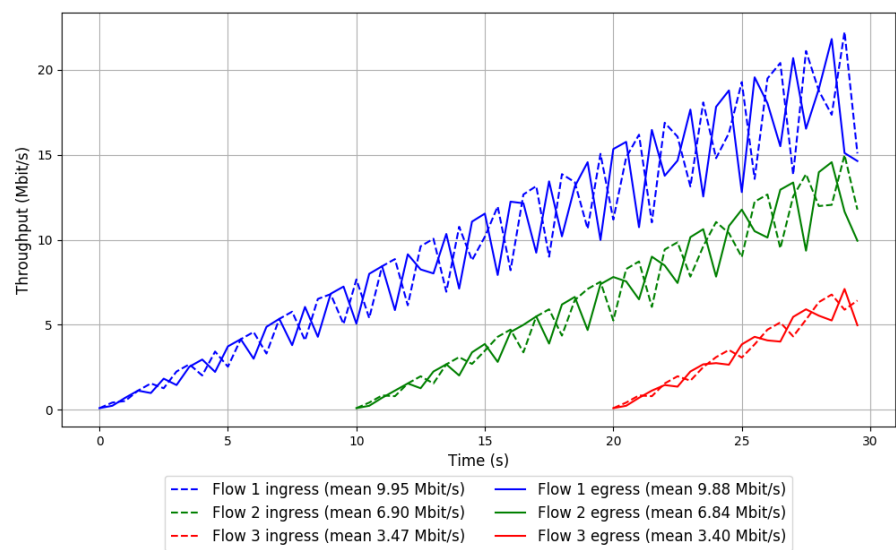


Run 8: Statistics of LEDBAT

Start at: 2018-03-21 02:46:11  
End at: 2018-03-21 02:46:41  
Local clock offset: -3.822 ms  
Remote clock offset: -1.519 ms

# Below is generated by plot.py at 2018-03-21 07:53:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 15.49 Mbit/s  
95th percentile per-packet one-way delay: 87.409 ms  
Loss rate: 1.63%  
-- Flow 1:  
Average throughput: 9.88 Mbit/s  
95th percentile per-packet one-way delay: 87.194 ms  
Loss rate: 1.28%  
-- Flow 2:  
Average throughput: 6.84 Mbit/s  
95th percentile per-packet one-way delay: 88.007 ms  
Loss rate: 1.87%  
-- Flow 3:  
Average throughput: 3.40 Mbit/s  
95th percentile per-packet one-way delay: 86.001 ms  
Loss rate: 3.74%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-03-21 03:10:15

End at: 2018-03-21 03:10:45

Local clock offset: -5.543 ms

Remote clock offset: 1.427 ms

# Below is generated by plot.py at 2018-03-21 07:53:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 15.69 Mbit/s

95th percentile per-packet one-way delay: 83.657 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 9.99 Mbit/s

95th percentile per-packet one-way delay: 83.676 ms

Loss rate: 1.18%

-- Flow 2:

Average throughput: 7.09 Mbit/s

95th percentile per-packet one-way delay: 83.347 ms

Loss rate: 1.84%

-- Flow 3:

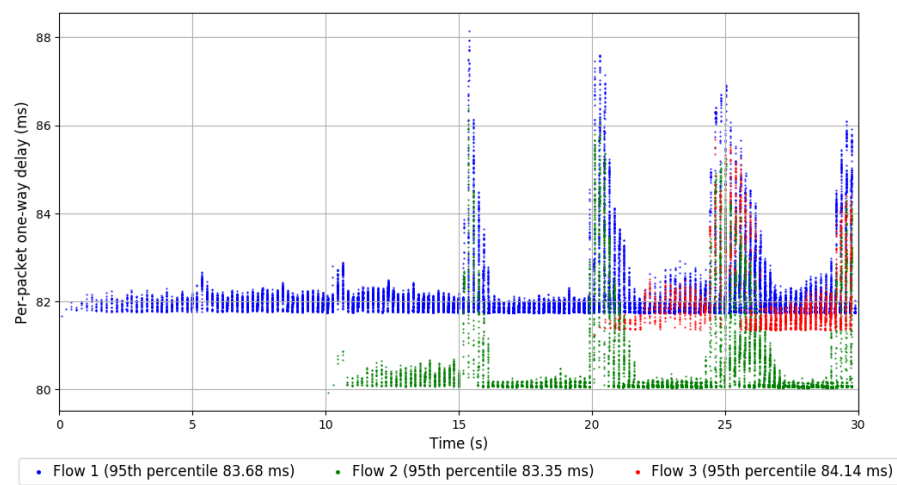
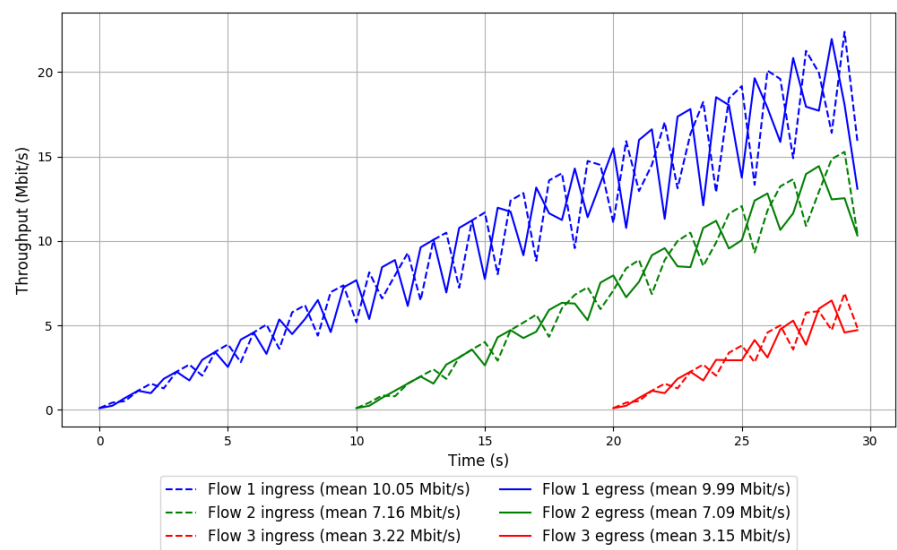
Average throughput: 3.15 Mbit/s

95th percentile per-packet one-way delay: 84.144 ms

Loss rate: 3.90%



Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-03-21 03:34:09

End at: 2018-03-21 03:34:39

Local clock offset: -5.657 ms

Remote clock offset: 0.501 ms

# Below is generated by plot.py at 2018-03-21 07:53:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 15.97 Mbit/s

95th percentile per-packet one-way delay: 83.336 ms

Loss rate: 1.60%

-- Flow 1:

Average throughput: 10.25 Mbit/s

95th percentile per-packet one-way delay: 81.578 ms

Loss rate: 1.25%

-- Flow 2:

Average throughput: 6.95 Mbit/s

95th percentile per-packet one-way delay: 83.832 ms

Loss rate: 1.86%

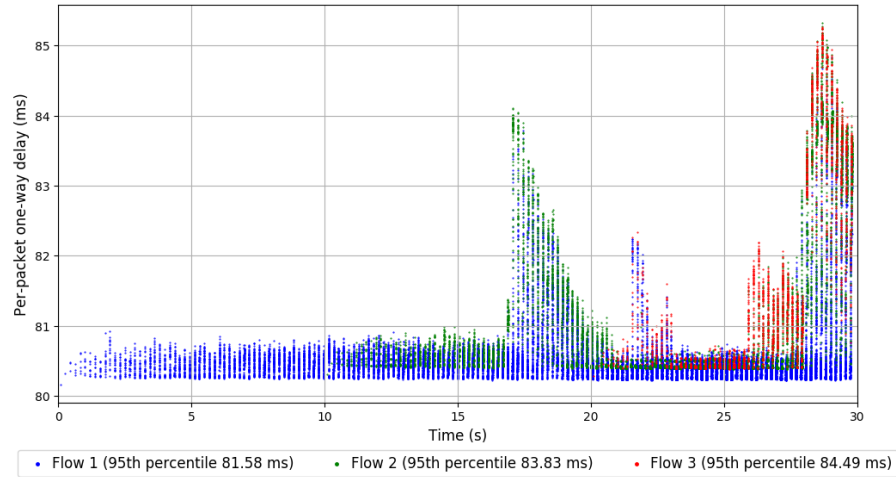
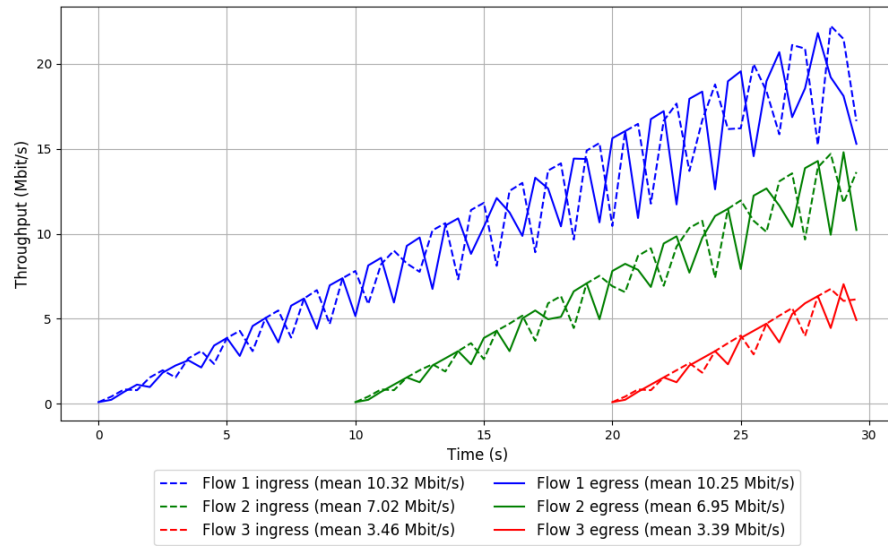
-- Flow 3:

Average throughput: 3.39 Mbit/s

95th percentile per-packet one-way delay: 84.487 ms

Loss rate: 3.71%

## Run 10: Report of LEDBAT — Data Link

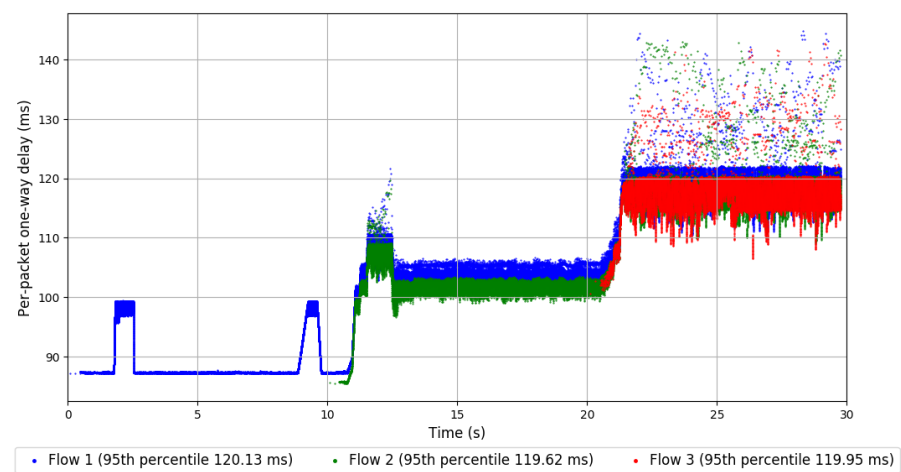
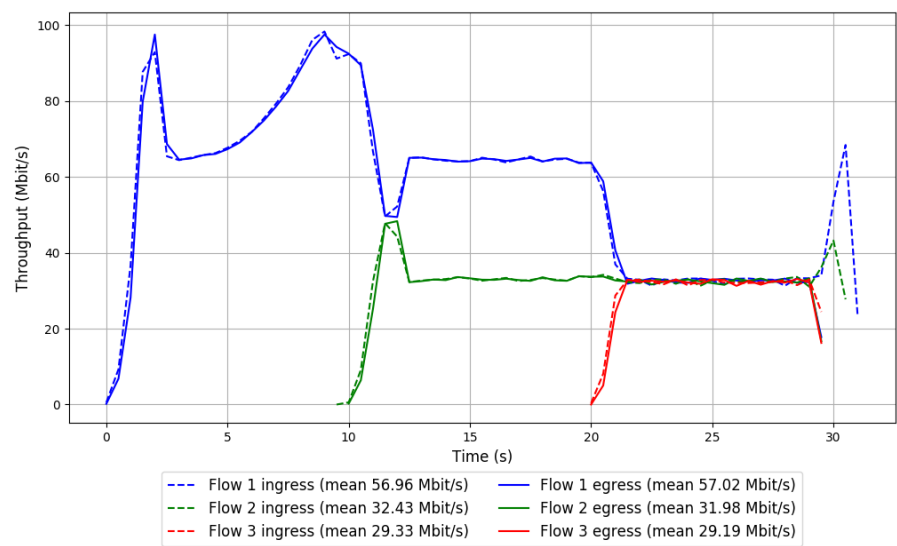


```
Run 1: Statistics of PCC

Start at: 2018-03-21 00:08:03
End at: 2018-03-21 00:08:33
Local clock offset: -13.885 ms
Remote clock offset: 2.392 ms

# Below is generated by plot.py at 2018-03-21 07:53:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.72 Mbit/s
95th percentile per-packet one-way delay: 119.906 ms
Loss rate: 5.15%
-- Flow 1:
Average throughput: 57.02 Mbit/s
95th percentile per-packet one-way delay: 120.129 ms
Loss rate: 4.79%
-- Flow 2:
Average throughput: 31.98 Mbit/s
95th percentile per-packet one-way delay: 119.622 ms
Loss rate: 7.16%
-- Flow 3:
Average throughput: 29.19 Mbit/s
95th percentile per-packet one-way delay: 119.953 ms
Loss rate: 2.70%
```

Run 1: Report of PCC — Data Link

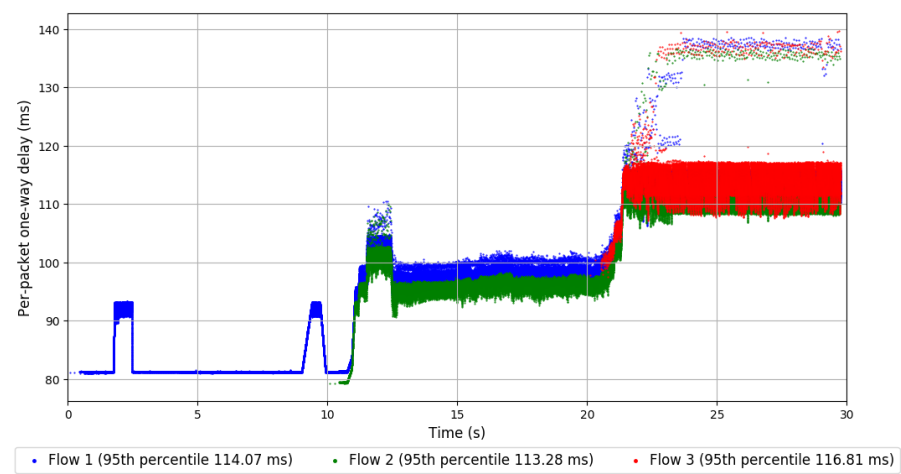
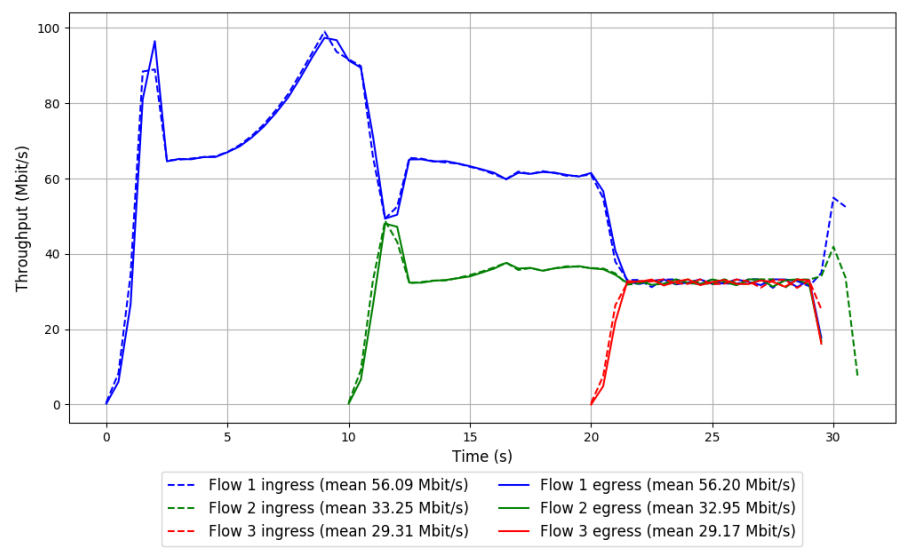


Run 2: Statistics of PCC

Start at: 2018-03-21 00:31:54  
End at: 2018-03-21 00:32:24  
Local clock offset: -14.185 ms  
Remote clock offset: 6.357 ms

# Below is generated by plot.py at 2018-03-21 07:53:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.50 Mbit/s  
95th percentile per-packet one-way delay: 114.846 ms  
Loss rate: 4.68%  
-- Flow 1:  
Average throughput: 56.20 Mbit/s  
95th percentile per-packet one-way delay: 114.071 ms  
Loss rate: 3.79%  
-- Flow 2:  
Average throughput: 32.95 Mbit/s  
95th percentile per-packet one-way delay: 113.277 ms  
Loss rate: 7.70%  
-- Flow 3:  
Average throughput: 29.17 Mbit/s  
95th percentile per-packet one-way delay: 116.815 ms  
Loss rate: 2.72%

Run 2: Report of PCC — Data Link



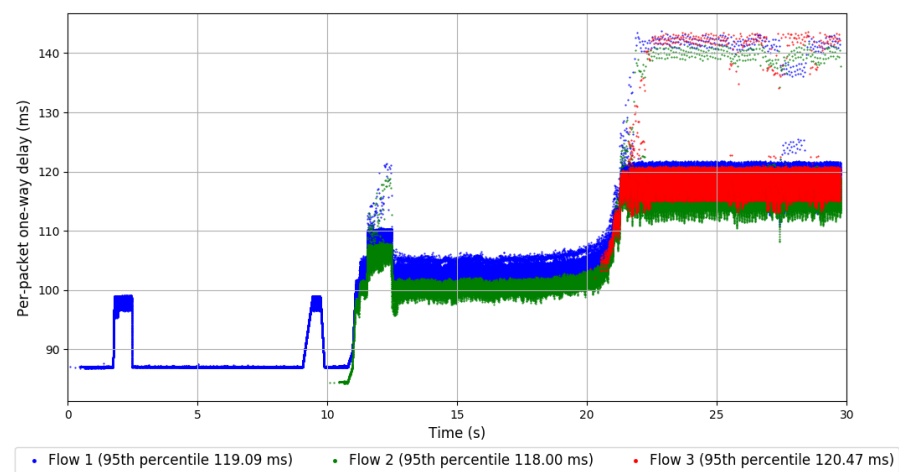
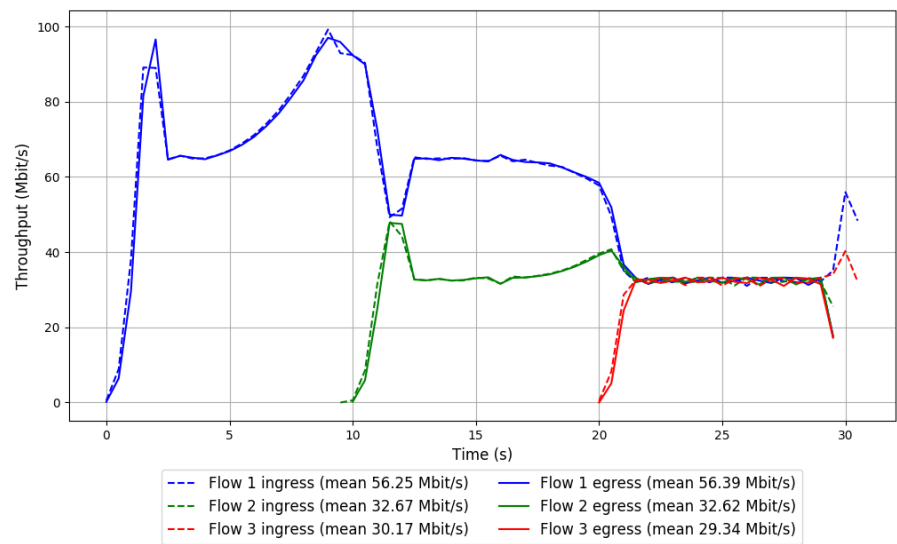
Run 3: Statistics of PCC

Start at: 2018-03-21 00:55:54  
End at: 2018-03-21 00:56:24  
Local clock offset: -14.194 ms  
Remote clock offset: 0.661 ms

# Below is generated by plot.py at 2018-03-21 07:53:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.54 Mbit/s  
95th percentile per-packet one-way delay: 119.513 ms  
Loss rate: 4.45%  
-- Flow 1:  
Average throughput: 56.39 Mbit/s  
95th percentile per-packet one-way delay: 119.086 ms  
Loss rate: 3.73%  
-- Flow 2:  
Average throughput: 32.62 Mbit/s  
95th percentile per-packet one-way delay: 118.003 ms  
Loss rate: 1.13%  
-- Flow 3:  
Average throughput: 29.34 Mbit/s  
95th percentile per-packet one-way delay: 120.467 ms  
Loss rate: 14.73%



Run 3: Report of PCC — Data Link

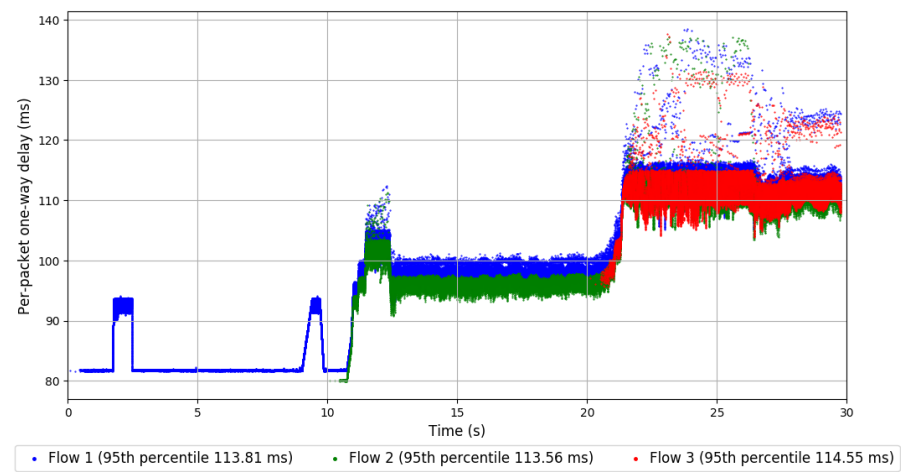
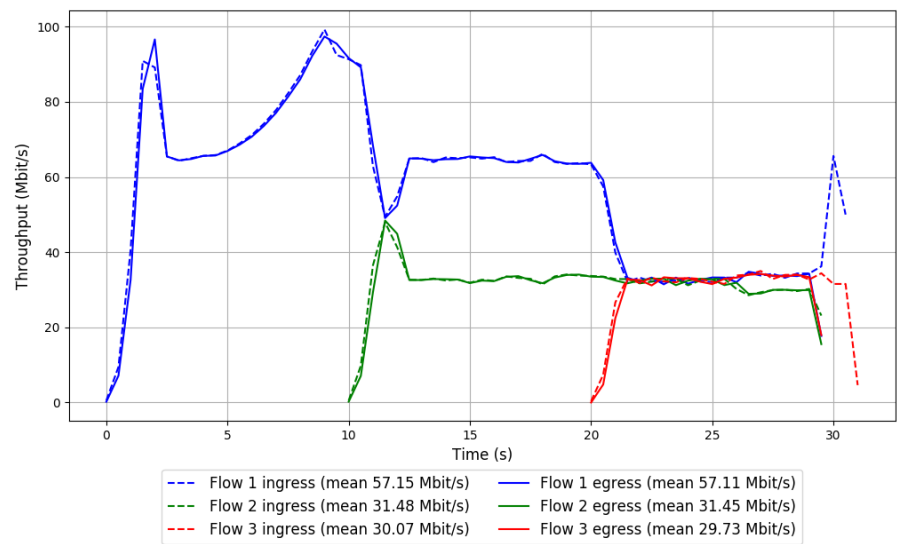


Run 4: Statistics of PCC

Start at: 2018-03-21 01:19:49  
End at: 2018-03-21 01:20:19  
Local clock offset: -14.264 ms  
Remote clock offset: 5.485 ms

# Below is generated by plot.py at 2018-03-21 07:53:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.61 Mbit/s  
95th percentile per-packet one-way delay: 113.918 ms  
Loss rate: 4.55%  
-- Flow 1:  
Average throughput: 57.11 Mbit/s  
95th percentile per-packet one-way delay: 113.811 ms  
Loss rate: 4.02%  
-- Flow 2:  
Average throughput: 31.45 Mbit/s  
95th percentile per-packet one-way delay: 113.558 ms  
Loss rate: 1.14%  
-- Flow 3:  
Average throughput: 29.73 Mbit/s  
95th percentile per-packet one-way delay: 114.550 ms  
Loss rate: 13.73%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-03-21 01:43:43

End at: 2018-03-21 01:44:13

Local clock offset: -9.752 ms

Remote clock offset: 4.65 ms

# Below is generated by plot.py at 2018-03-21 07:54:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 83.23 Mbit/s

95th percentile per-packet one-way delay: 113.154 ms

Loss rate: 9.60%

-- Flow 1:

Average throughput: 55.86 Mbit/s

95th percentile per-packet one-way delay: 111.605 ms

Loss rate: 6.18%

-- Flow 2:

Average throughput: 29.16 Mbit/s

95th percentile per-packet one-way delay: 114.434 ms

Loss rate: 15.00%

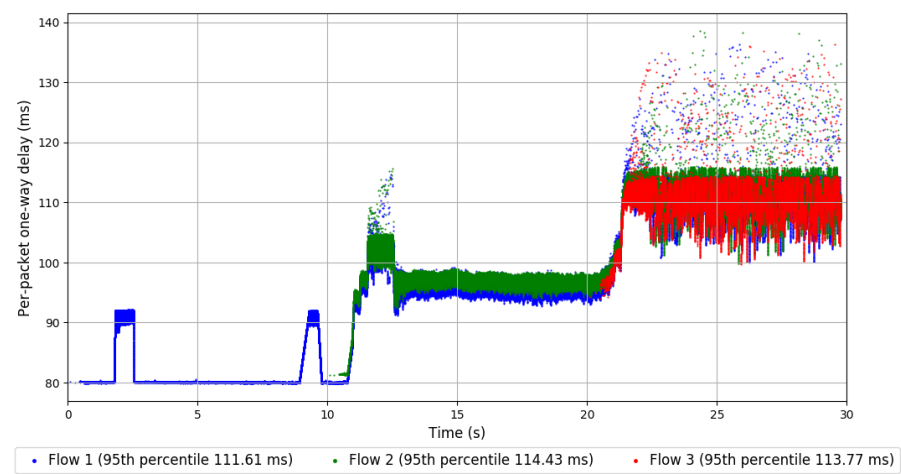
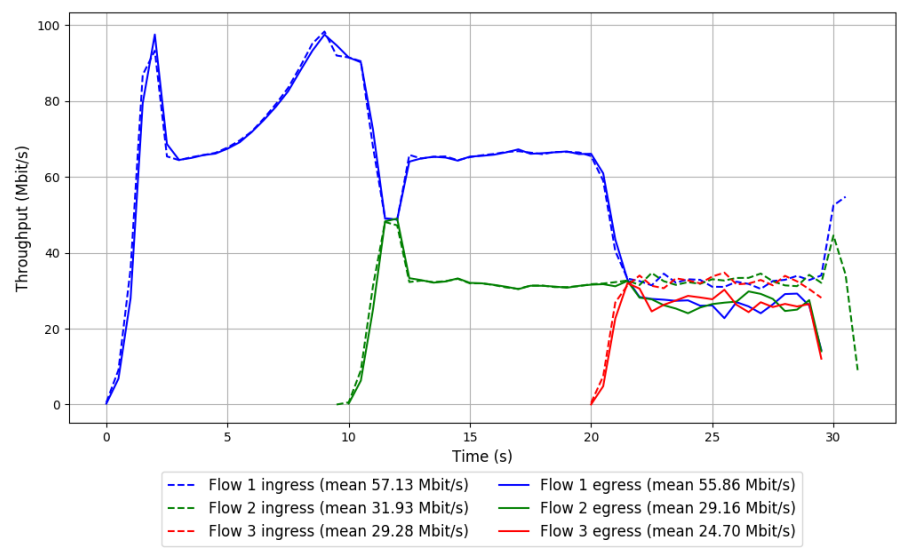
-- Flow 3:

Average throughput: 24.70 Mbit/s

95th percentile per-packet one-way delay: 113.769 ms

Loss rate: 17.87%

Run 5: Report of PCC — Data Link

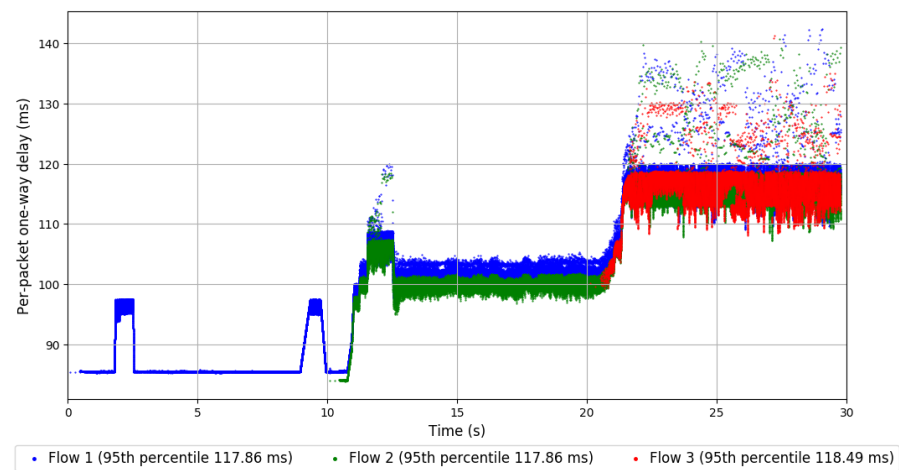
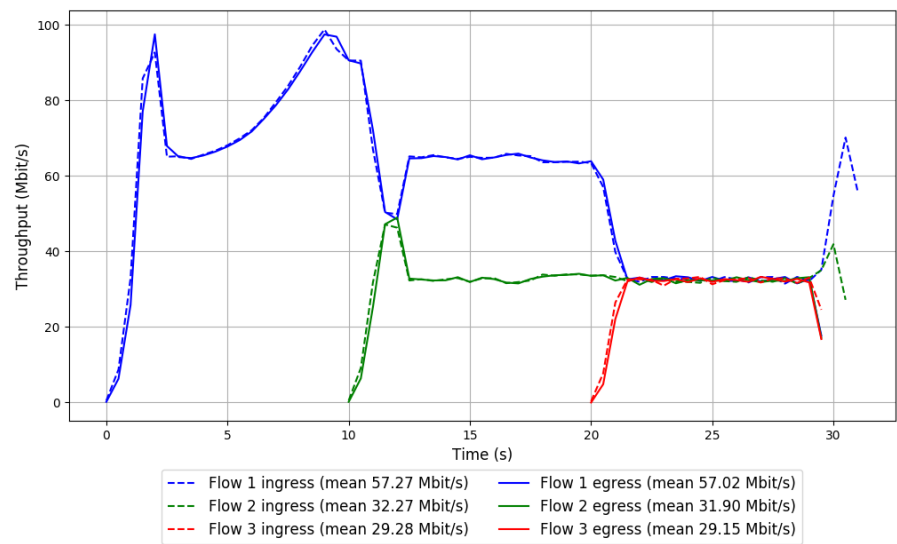


Run 6: Statistics of PCC

Start at: 2018-03-21 02:07:41  
End at: 2018-03-21 02:08:11  
Local clock offset: -2.279 ms  
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2018-03-21 07:54:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.65 Mbit/s  
95th percentile per-packet one-way delay: 118.065 ms  
Loss rate: 5.72%  
-- Flow 1:  
Average throughput: 57.02 Mbit/s  
95th percentile per-packet one-way delay: 117.863 ms  
Loss rate: 5.74%  
-- Flow 2:  
Average throughput: 31.90 Mbit/s  
95th percentile per-packet one-way delay: 117.865 ms  
Loss rate: 6.95%  
-- Flow 3:  
Average throughput: 29.15 Mbit/s  
95th percentile per-packet one-way delay: 118.489 ms  
Loss rate: 2.72%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-03-21 02:31:35

End at: 2018-03-21 02:32:05

Local clock offset: -4.461 ms

Remote clock offset: 2.989 ms

# Below is generated by plot.py at 2018-03-21 07:54:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 74.42 Mbit/s

95th percentile per-packet one-way delay: 81.335 ms

Loss rate: 2.34%

-- Flow 1:

Average throughput: 71.59 Mbit/s

95th percentile per-packet one-way delay: 80.066 ms

Loss rate: 2.31%

-- Flow 2:

Average throughput: 3.20 Mbit/s

95th percentile per-packet one-way delay: 81.408 ms

Loss rate: 2.90%

-- Flow 3:

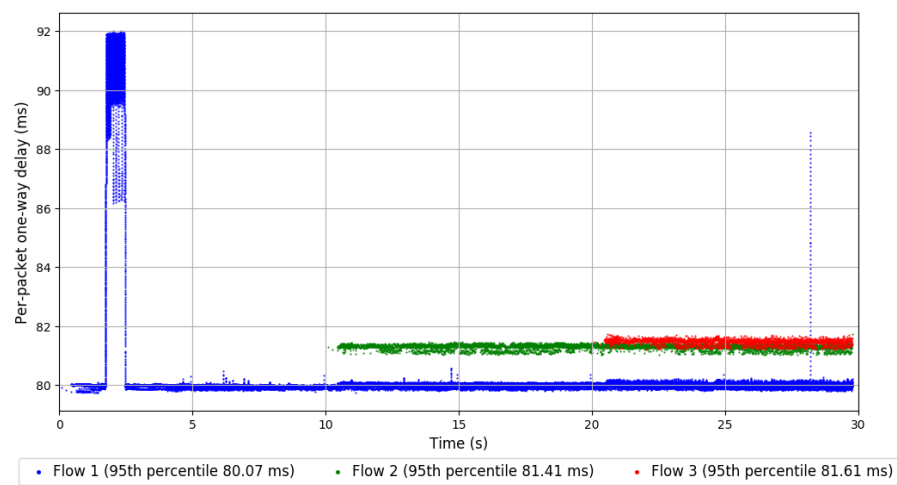
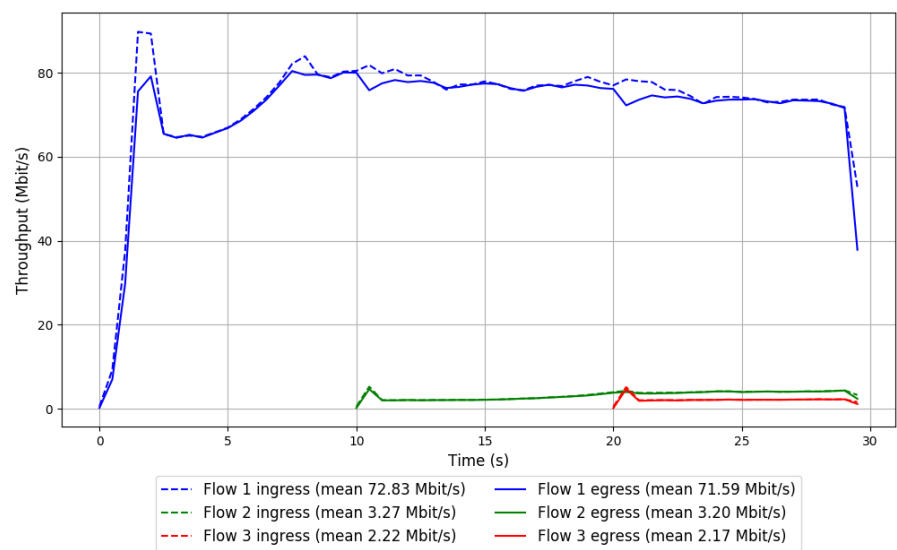
Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 81.606 ms

Loss rate: 3.85%



Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-03-21 02:55:26

End at: 2018-03-21 02:55:56

Local clock offset: -5.175 ms

Remote clock offset: 1.972 ms

# Below is generated by plot.py at 2018-03-21 07:54:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.11 Mbit/s

95th percentile per-packet one-way delay: 113.529 ms

Loss rate: 1.50%

-- Flow 1:

Average throughput: 56.69 Mbit/s

95th percentile per-packet one-way delay: 113.105 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 31.55 Mbit/s

95th percentile per-packet one-way delay: 113.637 ms

Loss rate: 2.38%

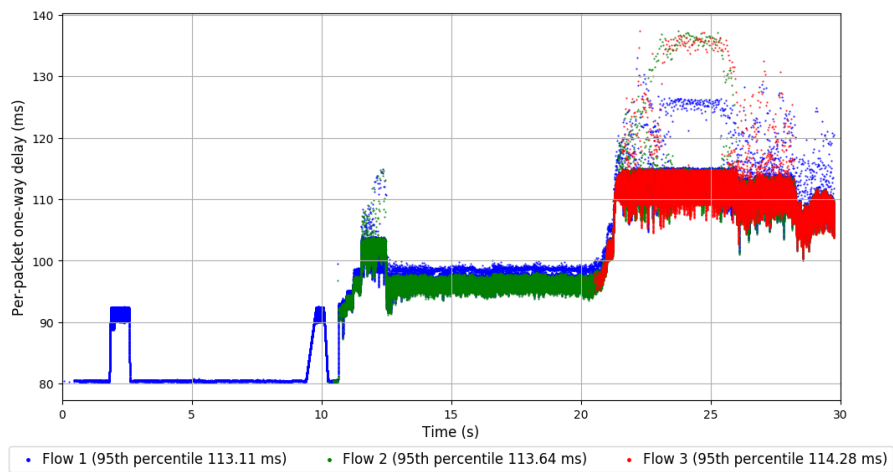
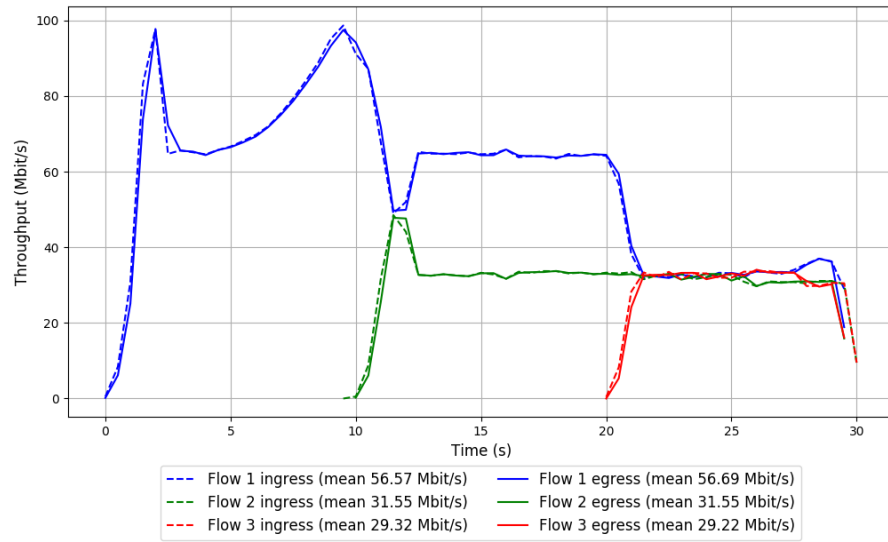
-- Flow 3:

Average throughput: 29.22 Mbit/s

95th percentile per-packet one-way delay: 114.280 ms

Loss rate: 5.15%

## Run 8: Report of PCC — Data Link

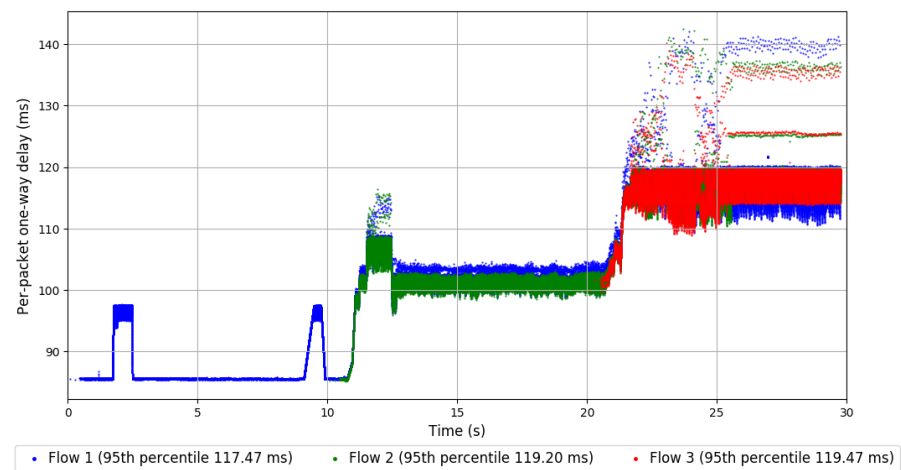
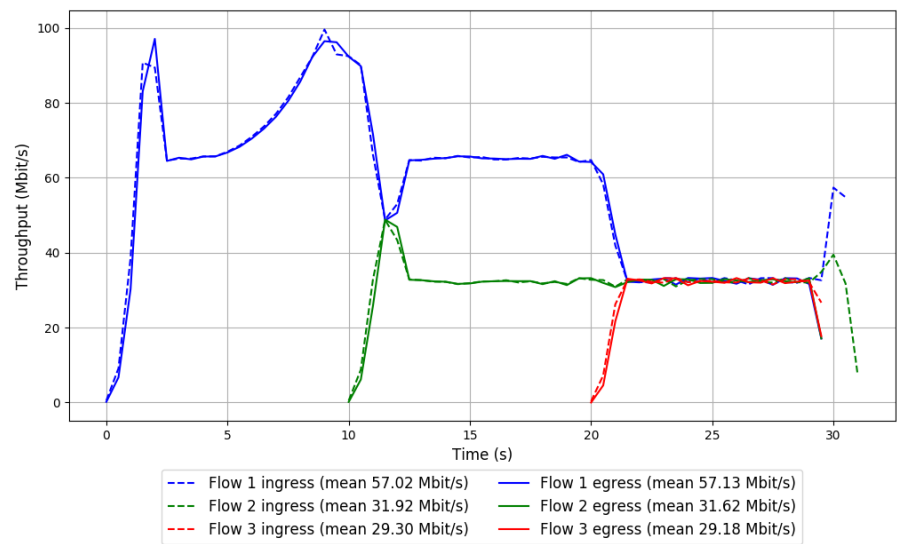


Run 9: Statistics of PCC

Start at: 2018-03-21 03:19:31  
End at: 2018-03-21 03:20:01  
Local clock offset: -5.49 ms  
Remote clock offset: -2.717 ms

# Below is generated by plot.py at 2018-03-21 07:54:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.54 Mbit/s  
95th percentile per-packet one-way delay: 118.829 ms  
Loss rate: 4.69%  
-- Flow 1:  
Average throughput: 57.13 Mbit/s  
95th percentile per-packet one-way delay: 117.474 ms  
Loss rate: 3.86%  
-- Flow 2:  
Average throughput: 31.62 Mbit/s  
95th percentile per-packet one-way delay: 119.202 ms  
Loss rate: 7.65%  
-- Flow 3:  
Average throughput: 29.18 Mbit/s  
95th percentile per-packet one-way delay: 119.469 ms  
Loss rate: 2.89%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-03-21 03:43:25

End at: 2018-03-21 03:43:55

Local clock offset: -5.507 ms

Remote clock offset: 0.252 ms

# Below is generated by plot.py at 2018-03-21 07:54:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.45 Mbit/s

95th percentile per-packet one-way delay: 114.300 ms

Loss rate: 1.61%

-- Flow 1:

Average throughput: 56.94 Mbit/s

95th percentile per-packet one-way delay: 111.723 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 31.57 Mbit/s

95th percentile per-packet one-way delay: 114.986 ms

Loss rate: 2.58%

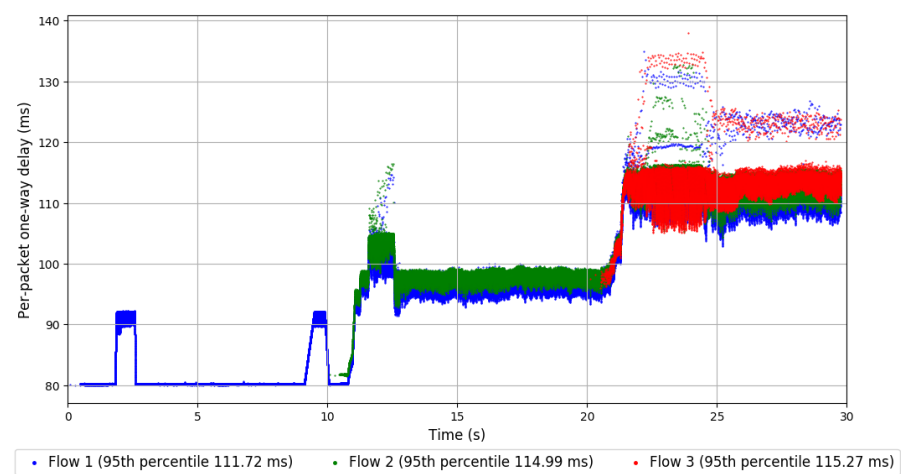
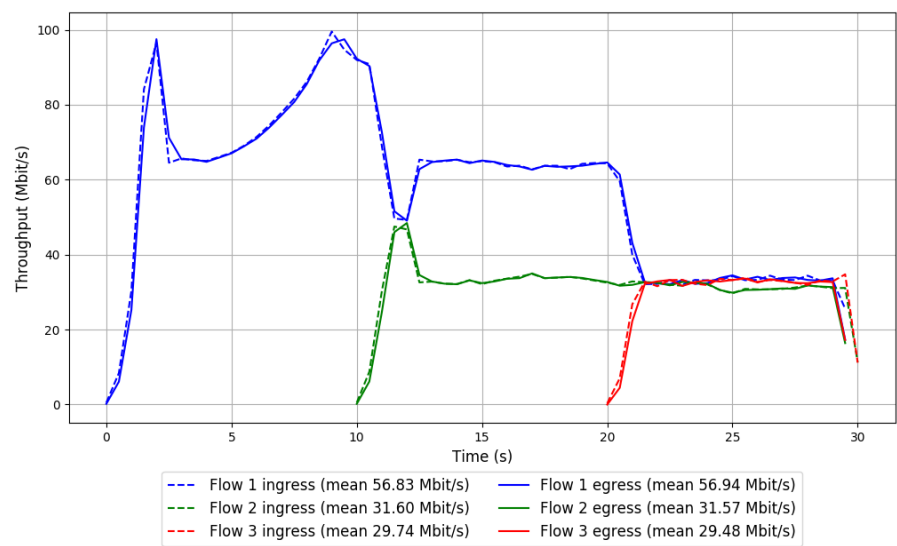
-- Flow 3:

Average throughput: 29.48 Mbit/s

95th percentile per-packet one-way delay: 115.270 ms

Loss rate: 5.98%

Run 10: Report of PCC — Data Link



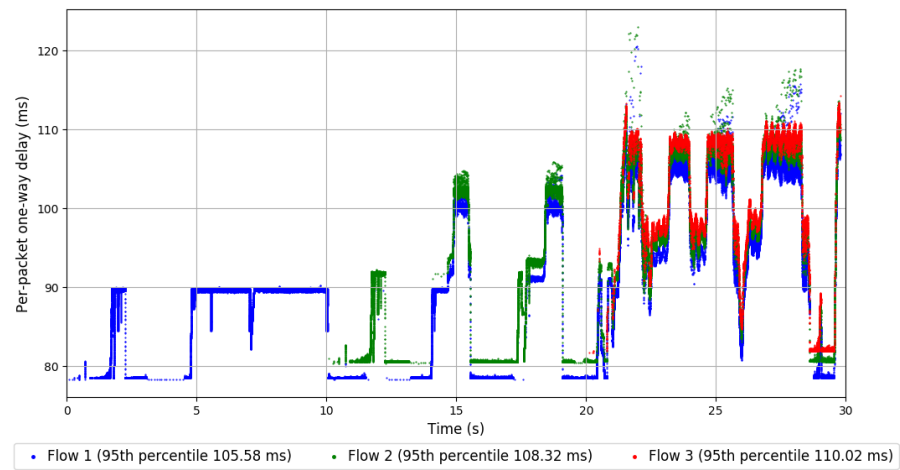
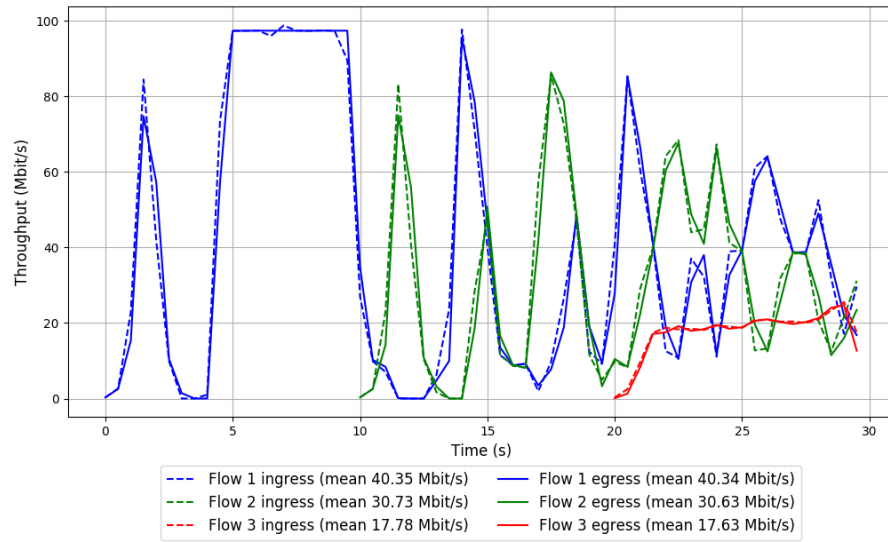
Run 1: Statistics of QUIC Cubic

Start at: 2018-03-20 23:55:56  
End at: 2018-03-20 23:56:26  
Local clock offset: -13.167 ms  
Remote clock offset: 8.482 ms

# Below is generated by plot.py at 2018-03-21 07:54:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 66.38 Mbit/s  
95th percentile per-packet one-way delay: 108.121 ms  
Loss rate: 1.03%  
-- Flow 1:  
Average throughput: 40.34 Mbit/s  
95th percentile per-packet one-way delay: 105.585 ms  
Loss rate: 0.65%  
-- Flow 2:  
Average throughput: 30.63 Mbit/s  
95th percentile per-packet one-way delay: 108.317 ms  
Loss rate: 1.31%  
-- Flow 3:  
Average throughput: 17.63 Mbit/s  
95th percentile per-packet one-way delay: 110.016 ms  
Loss rate: 2.63%



# Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-03-21 00:19:57

End at: 2018-03-21 00:20:27

Local clock offset: -14.18 ms

Remote clock offset: 2.718 ms

# Below is generated by plot.py at 2018-03-21 07:54:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 60.83 Mbit/s

95th percentile per-packet one-way delay: 108.837 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 37.06 Mbit/s

95th percentile per-packet one-way delay: 107.668 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 29.08 Mbit/s

95th percentile per-packet one-way delay: 108.975 ms

Loss rate: 1.50%

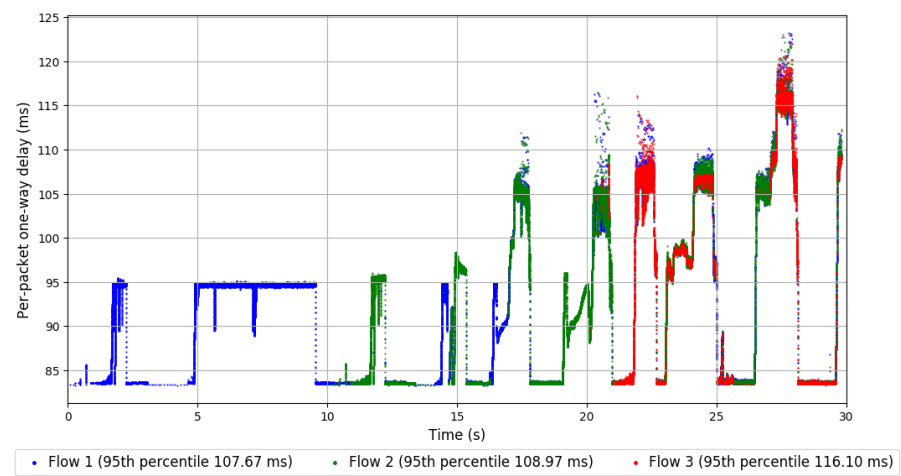
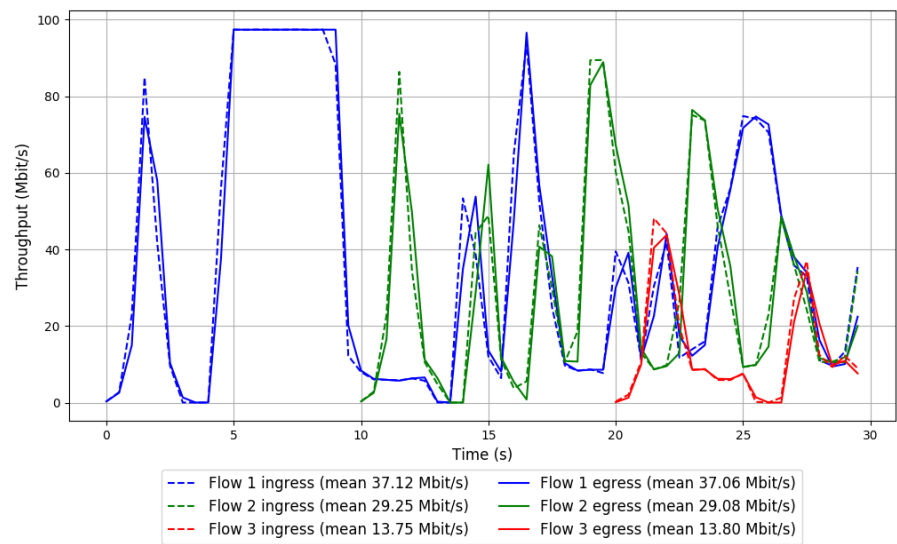
-- Flow 3:

Average throughput: 13.80 Mbit/s

95th percentile per-packet one-way delay: 116.099 ms

Loss rate: 1.36%

Run 2: Report of QUIC Cubic — Data Link

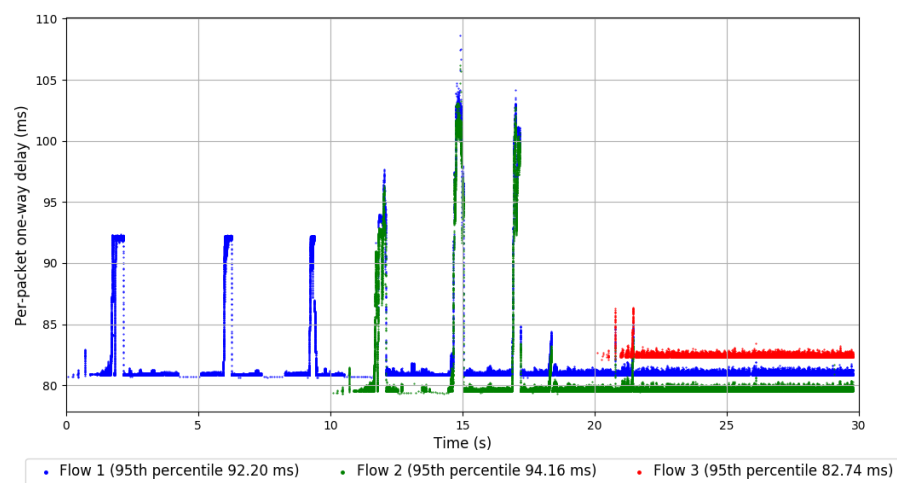
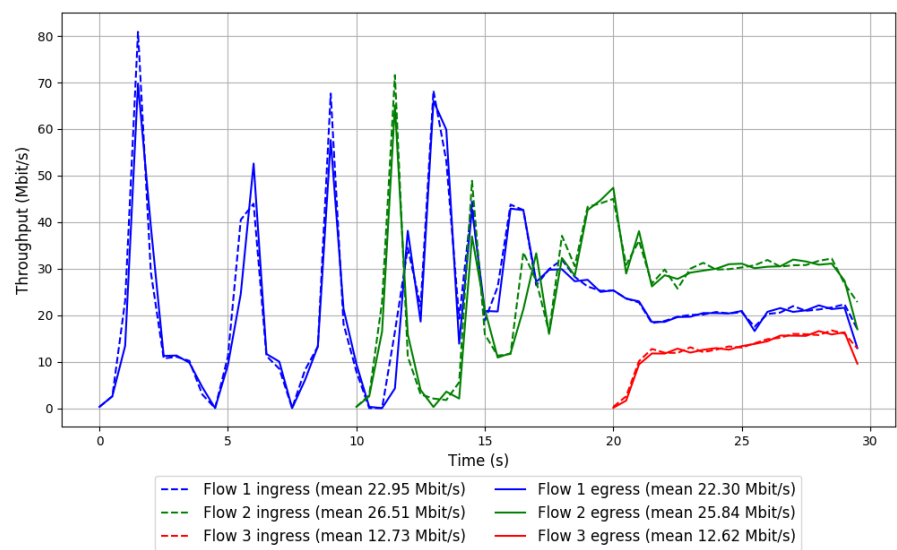


Run 3: Statistics of QUIC Cubic

Start at: 2018-03-21 00:43:51  
End at: 2018-03-21 00:44:21  
Local clock offset: -14.154 ms  
Remote clock offset: 5.964 ms

# Below is generated by plot.py at 2018-03-21 07:54:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 43.53 Mbit/s  
95th percentile per-packet one-way delay: 92.347 ms  
Loss rate: 3.36%  
-- Flow 1:  
Average throughput: 22.30 Mbit/s  
95th percentile per-packet one-way delay: 92.203 ms  
Loss rate: 3.46%  
-- Flow 2:  
Average throughput: 25.84 Mbit/s  
95th percentile per-packet one-way delay: 94.162 ms  
Loss rate: 3.41%  
-- Flow 3:  
Average throughput: 12.62 Mbit/s  
95th percentile per-packet one-way delay: 82.739 ms  
Loss rate: 2.64%

Run 3: Report of QUIC Cubic — Data Link

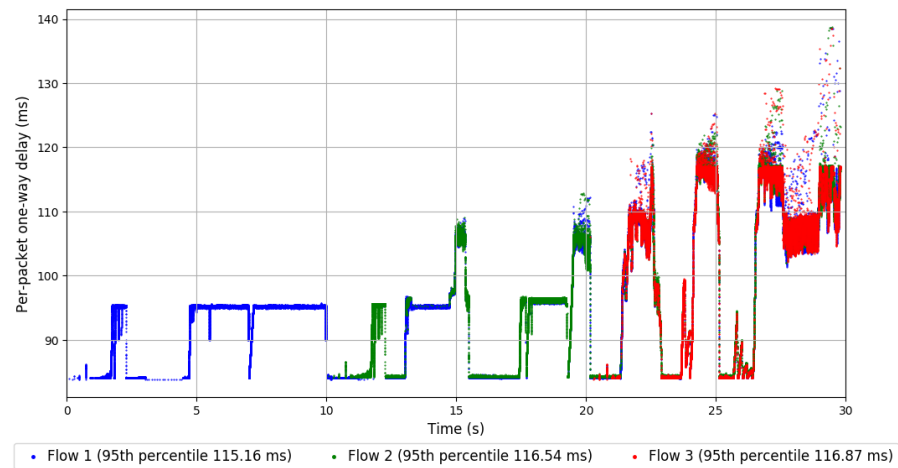
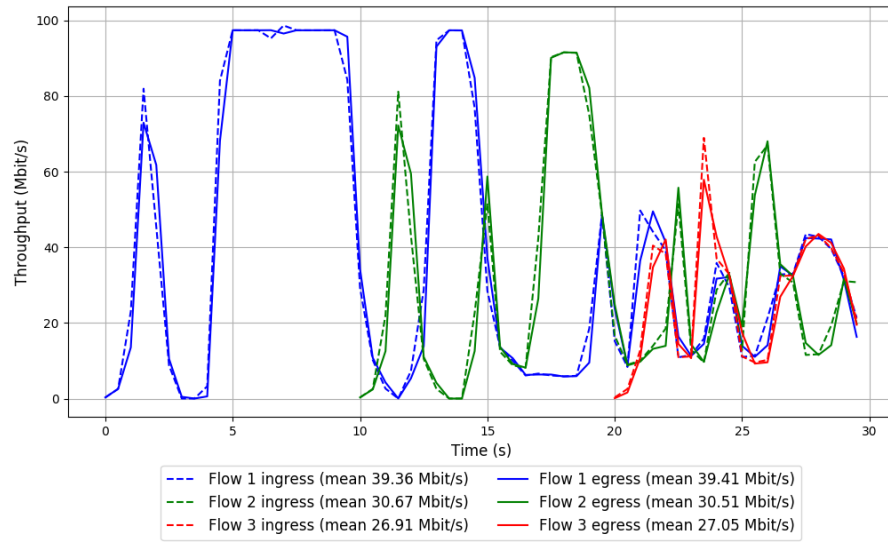


Run 4: Statistics of QUIC Cubic

Start at: 2018-03-21 01:07:51  
End at: 2018-03-21 01:08:21  
Local clock offset: -14.226 ms  
Remote clock offset: 2.09 ms

# Below is generated by plot.py at 2018-03-21 07:55:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.40 Mbit/s  
95th percentile per-packet one-way delay: 116.363 ms  
Loss rate: 0.95%  
-- Flow 1:  
Average throughput: 39.41 Mbit/s  
95th percentile per-packet one-way delay: 115.158 ms  
Loss rate: 0.53%  
-- Flow 2:  
Average throughput: 30.51 Mbit/s  
95th percentile per-packet one-way delay: 116.542 ms  
Loss rate: 1.48%  
-- Flow 3:  
Average throughput: 27.05 Mbit/s  
95th percentile per-packet one-way delay: 116.866 ms  
Loss rate: 1.56%

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



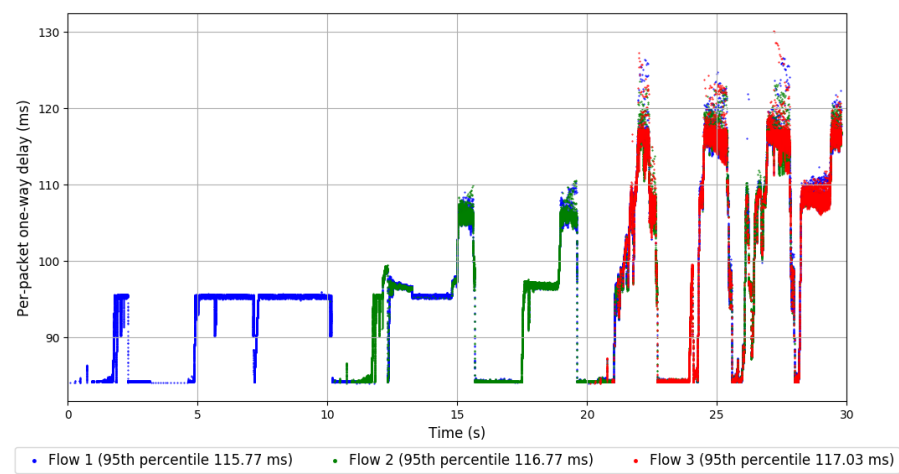
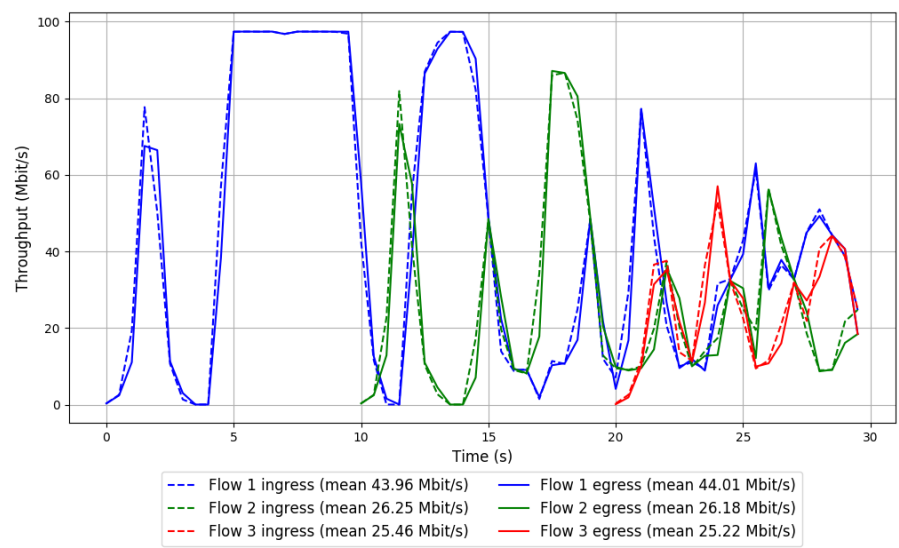
Run 5: Statistics of QUIC Cubic

Start at: 2018-03-21 01:31:45  
End at: 2018-03-21 01:32:15  
Local clock offset: -14.306 ms  
Remote clock offset: 1.257 ms

# Below is generated by plot.py at 2018-03-21 07:55:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.56 Mbit/s  
95th percentile per-packet one-way delay: 116.599 ms  
Loss rate: 1.00%  
-- Flow 1:  
Average throughput: 44.01 Mbit/s  
95th percentile per-packet one-way delay: 115.765 ms  
Loss rate: 0.53%  
-- Flow 2:  
Average throughput: 26.18 Mbit/s  
95th percentile per-packet one-way delay: 116.774 ms  
Loss rate: 1.32%  
-- Flow 3:  
Average throughput: 25.22 Mbit/s  
95th percentile per-packet one-way delay: 117.035 ms  
Loss rate: 2.80%



Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-03-21 01:55:40

End at: 2018-03-21 01:56:10

Local clock offset: -4.834 ms

Remote clock offset: 4.227 ms

# Below is generated by plot.py at 2018-03-21 07:55:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 75.98 Mbit/s

95th percentile per-packet one-way delay: 103.062 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 43.07 Mbit/s

95th percentile per-packet one-way delay: 103.055 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 47.32 Mbit/s

95th percentile per-packet one-way delay: 103.003 ms

Loss rate: 0.98%

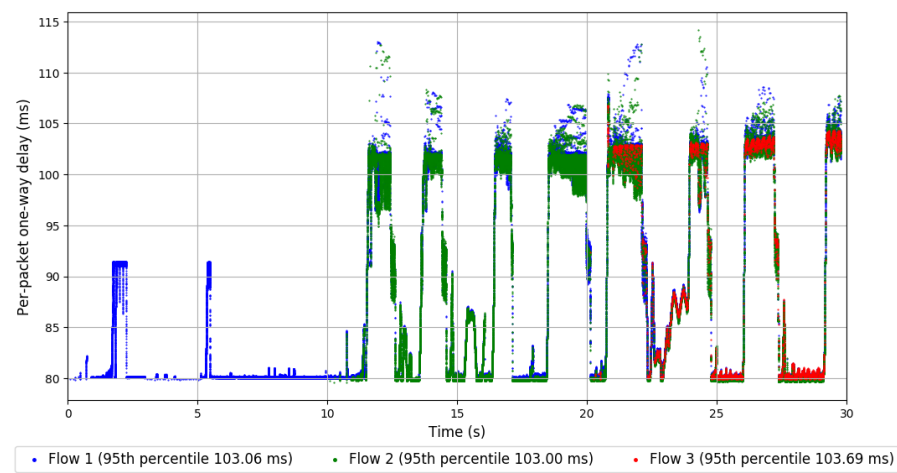
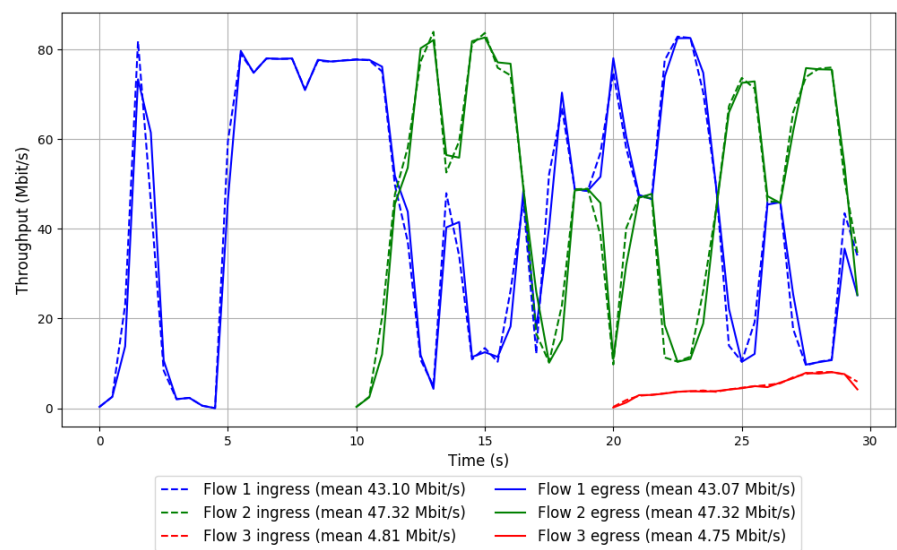
-- Flow 3:

Average throughput: 4.75 Mbit/s

95th percentile per-packet one-way delay: 103.692 ms

Loss rate: 3.24%

Run 6: Report of QUIC Cubic — Data Link

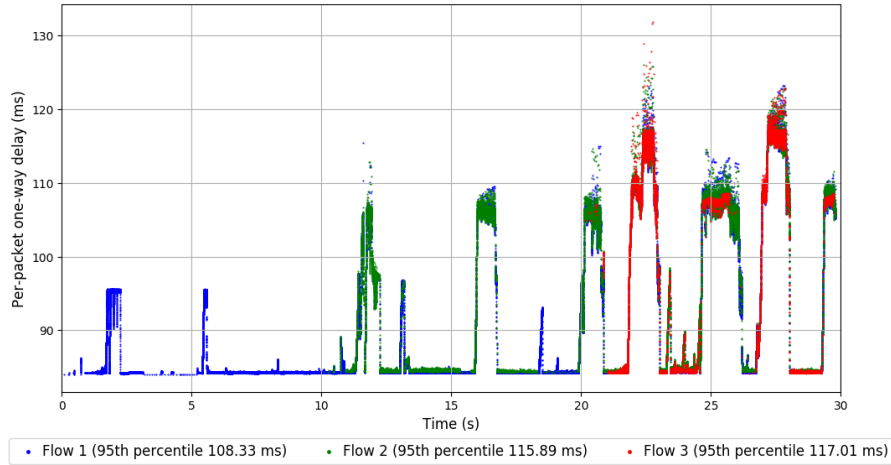
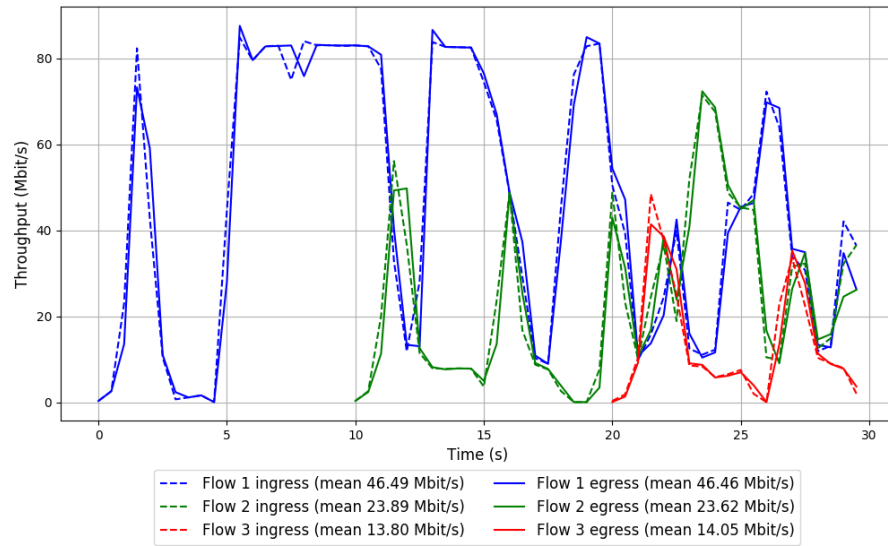


Run 7: Statistics of QUIC Cubic

Start at: 2018-03-21 02:19:37  
End at: 2018-03-21 02:20:07  
Local clock offset: -3.737 ms  
Remote clock offset: -0.507 ms

# Below is generated by plot.py at 2018-03-21 07:56:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 66.67 Mbit/s  
95th percentile per-packet one-way delay: 114.702 ms  
Loss rate: 1.00%  
-- Flow 1:  
Average throughput: 46.46 Mbit/s  
95th percentile per-packet one-way delay: 108.335 ms  
Loss rate: 0.71%  
-- Flow 2:  
Average throughput: 23.62 Mbit/s  
95th percentile per-packet one-way delay: 115.888 ms  
Loss rate: 2.10%  
-- Flow 3:  
Average throughput: 14.05 Mbit/s  
95th percentile per-packet one-way delay: 117.011 ms  
Loss rate: 0.00%

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

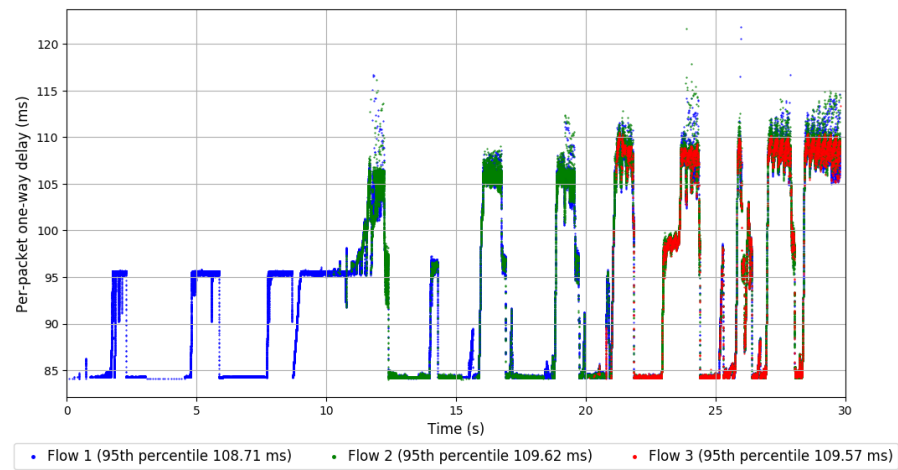
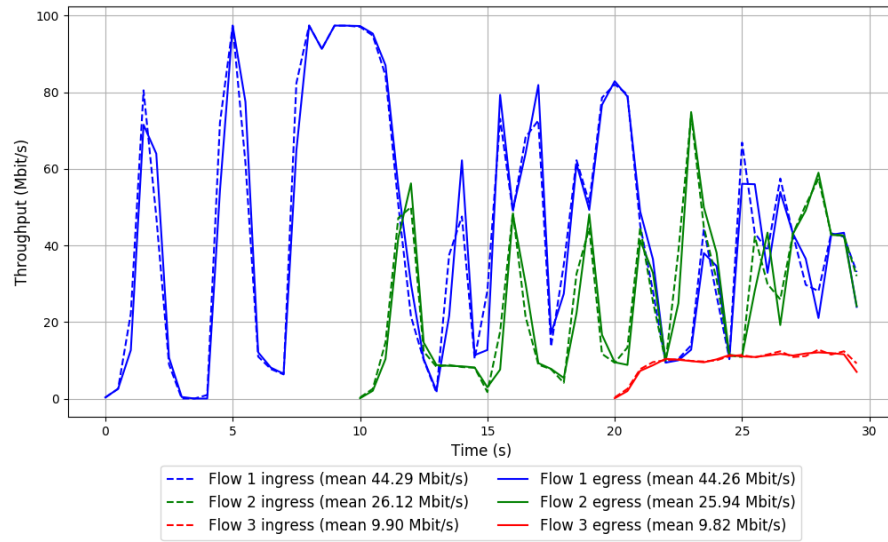


Run 8: Statistics of QUIC Cubic

Start at: 2018-03-21 02:43:30  
End at: 2018-03-21 02:44:00  
Local clock offset: -3.974 ms  
Remote clock offset: -1.421 ms

# Below is generated by plot.py at 2018-03-21 07:56:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 64.64 Mbit/s  
95th percentile per-packet one-way delay: 109.209 ms  
Loss rate: 1.04%  
-- Flow 1:  
Average throughput: 44.26 Mbit/s  
95th percentile per-packet one-way delay: 108.708 ms  
Loss rate: 0.68%  
-- Flow 2:  
Average throughput: 25.94 Mbit/s  
95th percentile per-packet one-way delay: 109.623 ms  
Loss rate: 1.66%  
-- Flow 3:  
Average throughput: 9.82 Mbit/s  
95th percentile per-packet one-way delay: 109.567 ms  
Loss rate: 2.62%

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



Run 9: Statistics of QUIC Cubic

Start at: 2018-03-21 03:07:25

End at: 2018-03-21 03:07:55

Local clock offset: -5.54 ms

Remote clock offset: 1.612 ms

# Below is generated by plot.py at 2018-03-21 07:56:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 64.19 Mbit/s

95th percentile per-packet one-way delay: 113.307 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 38.06 Mbit/s

95th percentile per-packet one-way delay: 112.750 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 23.56 Mbit/s

95th percentile per-packet one-way delay: 114.087 ms

Loss rate: 0.79%

-- Flow 3:

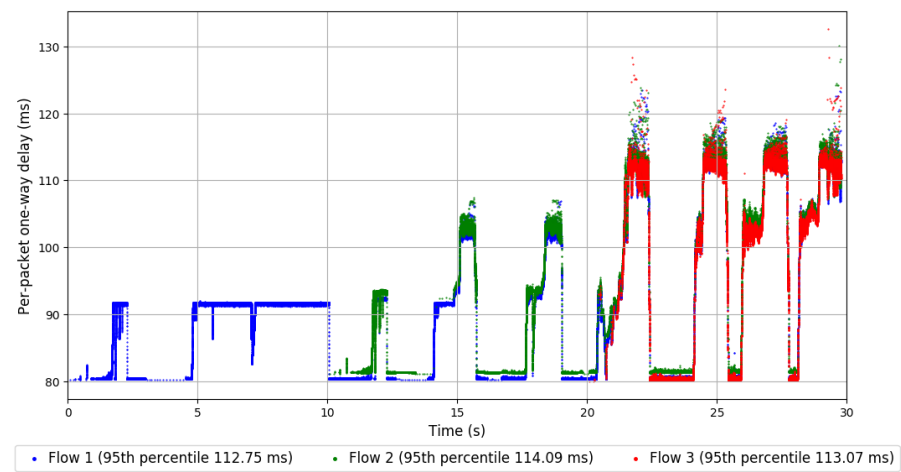
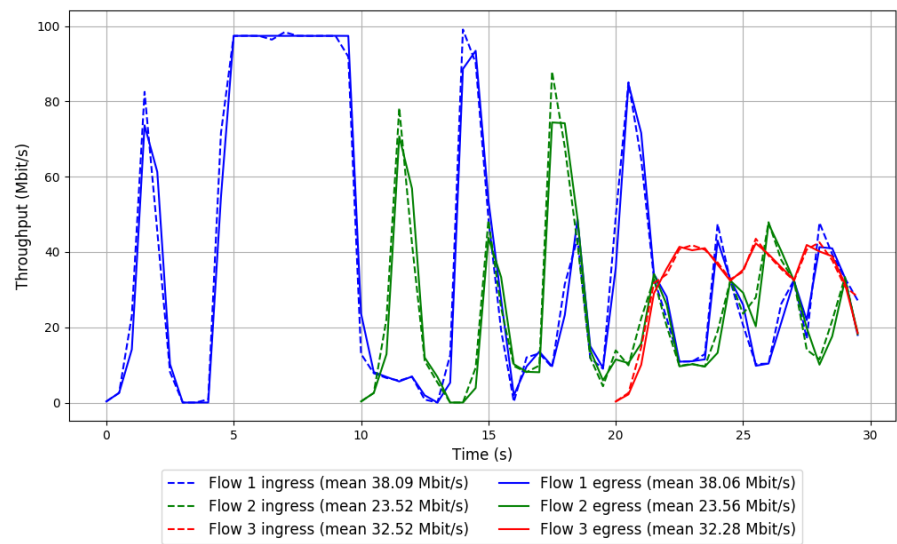
Average throughput: 32.28 Mbit/s

95th percentile per-packet one-way delay: 113.067 ms

Loss rate: 2.53%



Run 9: Report of QUIC Cubic — Data Link

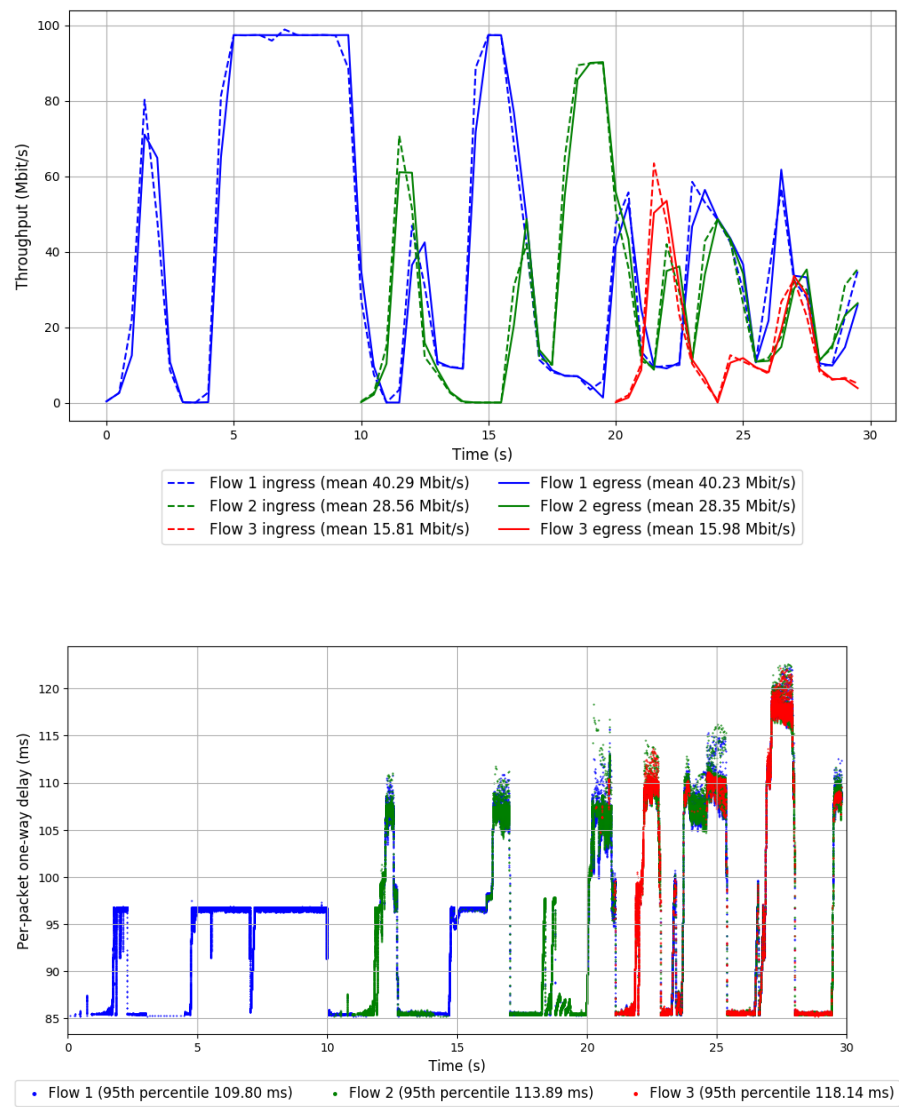


Run 10: Statistics of QUIC Cubic

Start at: 2018-03-21 03:31:28  
End at: 2018-03-21 03:31:58  
Local clock offset: -5.66 ms  
Remote clock offset: -3.085 ms

# Below is generated by plot.py at 2018-03-21 07:56:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 64.20 Mbit/s  
95th percentile per-packet one-way delay: 111.316 ms  
Loss rate: 1.05%  
-- Flow 1:  
Average throughput: 40.23 Mbit/s  
95th percentile per-packet one-way delay: 109.796 ms  
Loss rate: 0.78%  
-- Flow 2:  
Average throughput: 28.35 Mbit/s  
95th percentile per-packet one-way delay: 113.891 ms  
Loss rate: 1.66%  
-- Flow 3:  
Average throughput: 15.98 Mbit/s  
95th percentile per-packet one-way delay: 118.139 ms  
Loss rate: 0.87%

Run 10: Report of QUIC Cubic — Data Link

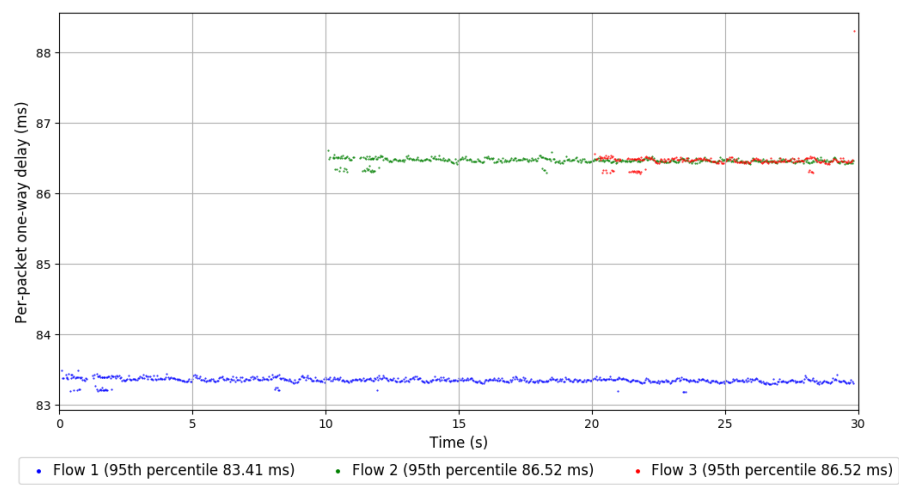
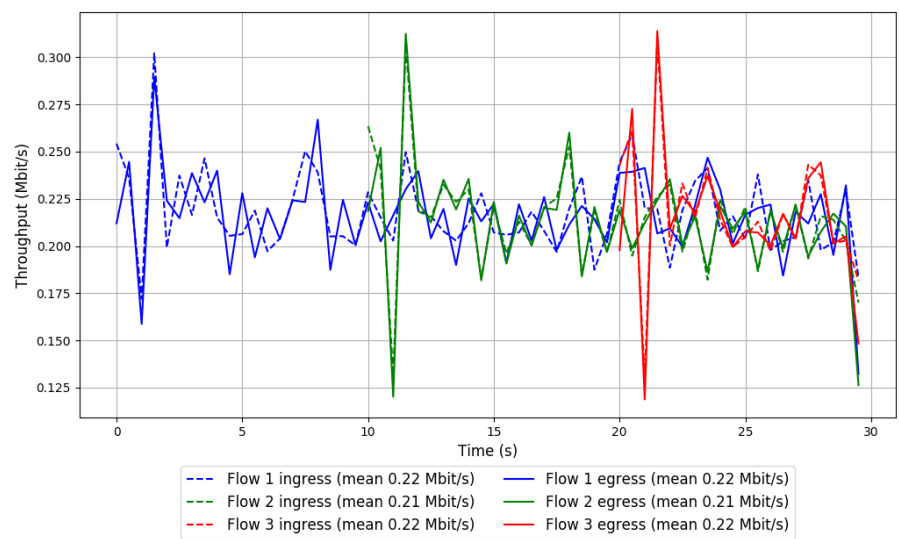


```
Run 1: Statistics of SReAM

Start at: 2018-03-20 23:54:41
End at: 2018-03-20 23:55:11
Local clock offset: -13.18 ms
Remote clock offset: 3.845 ms

# Below is generated by plot.py at 2018-03-21 07:56:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 86.506 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.405 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 86.516 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.515 ms
Loss rate: 1.49%
```

Run 1: Report of SReAM — Data Link

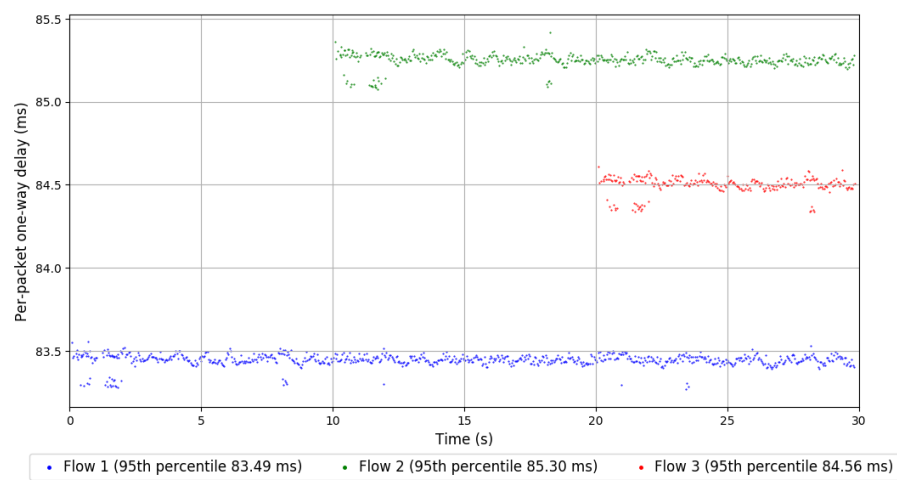
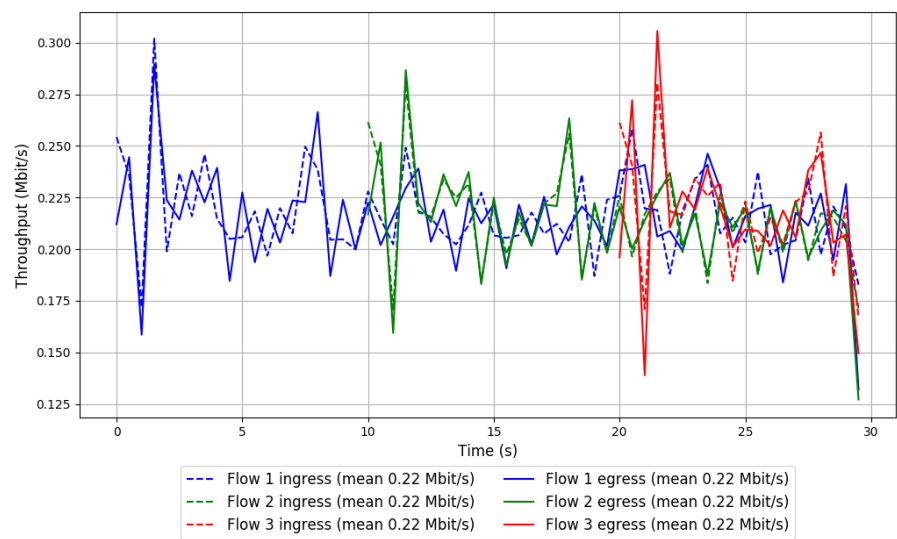


Run 2: Statistics of SReAM

Start at: 2018-03-21 00:18:42  
End at: 2018-03-21 00:19:12  
Local clock offset: -14.077 ms  
Remote clock offset: 2.789 ms

# Below is generated by plot.py at 2018-03-21 07:56:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 85.283 ms  
Loss rate: 0.85%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 83.493 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 85.302 ms  
Loss rate: 0.84%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 84.559 ms  
Loss rate: 1.49%

Run 2: Report of SReAM — Data Link



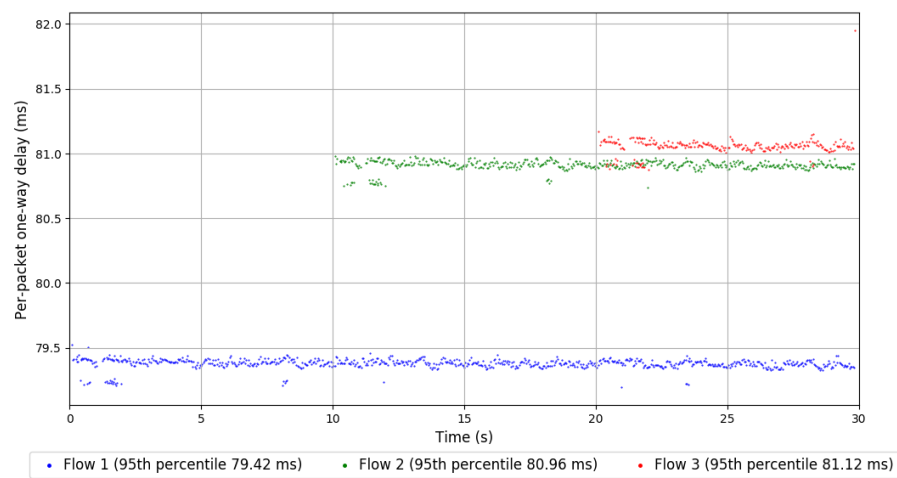
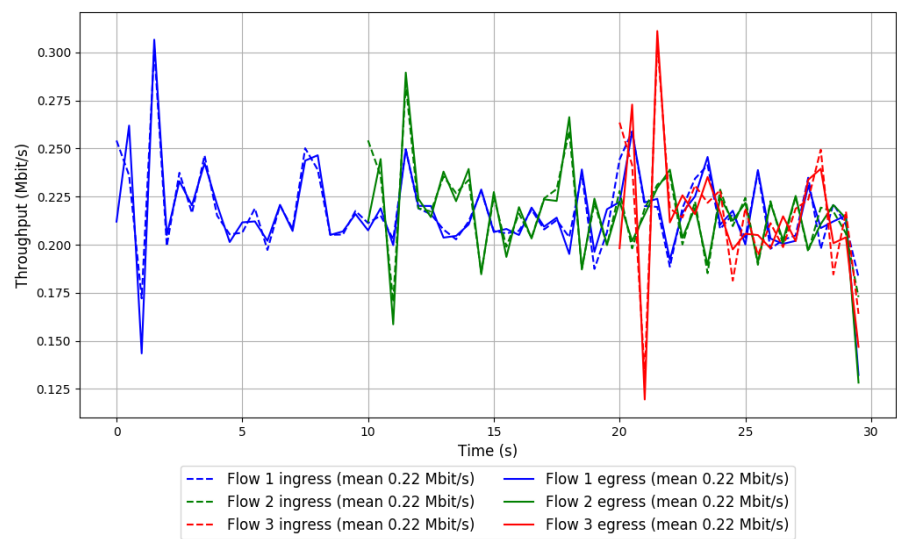
Run 3: Statistics of SReAM

Start at: 2018-03-21 00:42:36  
End at: 2018-03-21 00:43:06  
Local clock offset: -14.152 ms  
Remote clock offset: 5.954 ms

# Below is generated by plot.py at 2018-03-21 07:56:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 81.074 ms  
Loss rate: 0.85%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 79.421 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 80.960 ms  
Loss rate: 0.84%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 81.120 ms  
Loss rate: 1.49%



Run 3: Report of SReAM — Data Link

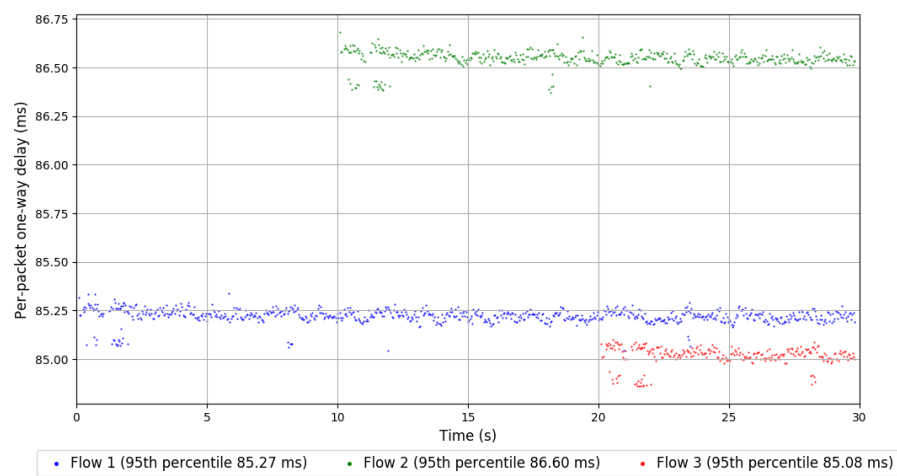
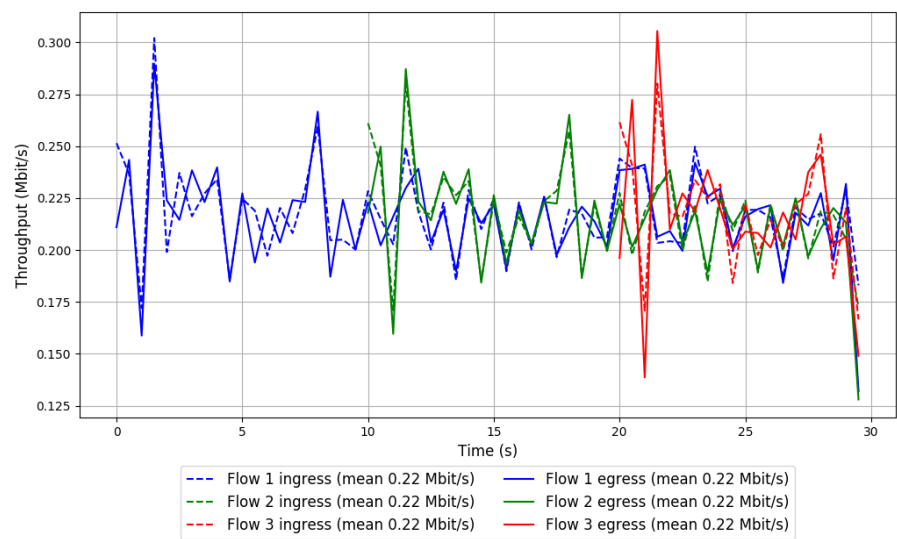


Run 4: Statistics of SReAM

Start at: 2018-03-21 01:06:36  
End at: 2018-03-21 01:07:06  
Local clock offset: -14.222 ms  
Remote clock offset: 1.148 ms

# Below is generated by plot.py at 2018-03-21 07:56:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 86.581 ms  
Loss rate: 0.85%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 85.271 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.596 ms  
Loss rate: 0.84%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 85.076 ms  
Loss rate: 1.49%

Run 4: Report of SReAM — Data Link

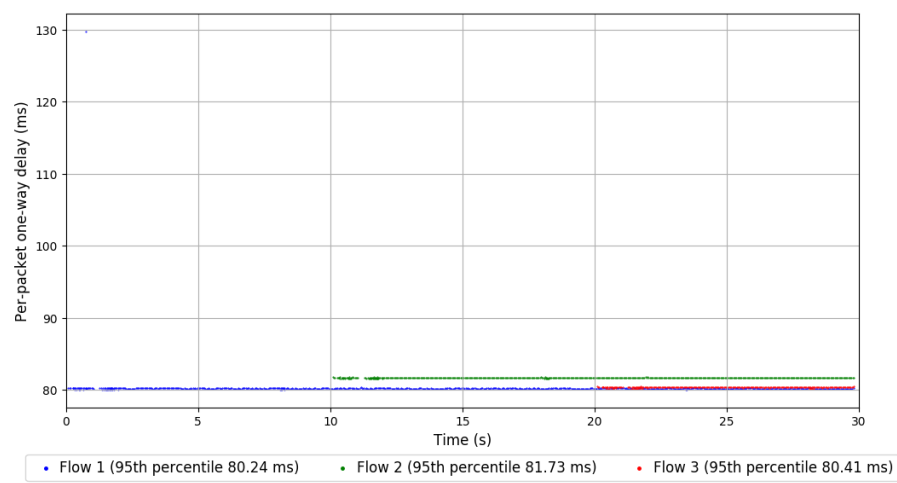
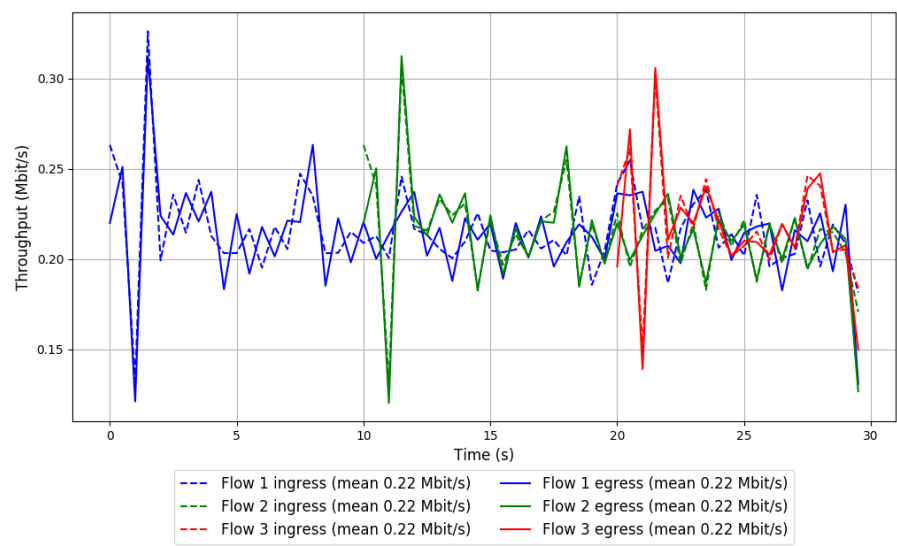


Run 5: Statistics of SReAM

Start at: 2018-03-21 01:30:31  
End at: 2018-03-21 01:31:01  
Local clock offset: -14.269 ms  
Remote clock offset: 5.165 ms

# Below is generated by plot.py at 2018-03-21 07:56:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 81.709 ms  
Loss rate: 0.85%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 80.241 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 81.727 ms  
Loss rate: 0.84%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 80.405 ms  
Loss rate: 1.49%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-03-21 01:54:26

End at: 2018-03-21 01:54:56

Local clock offset: -5.174 ms

Remote clock offset: 0.496 ms

# Below is generated by plot.py at 2018-03-21 07:56:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 84.847 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 84.058 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.812 ms

Loss rate: 0.84%

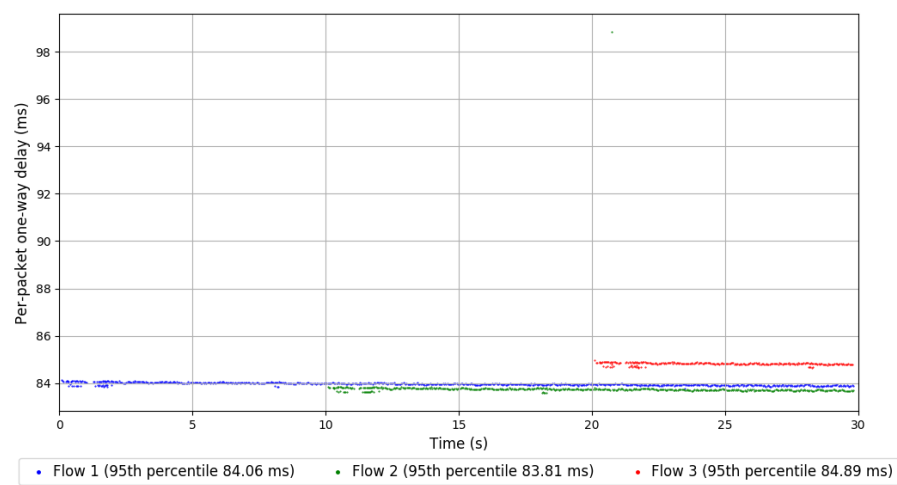
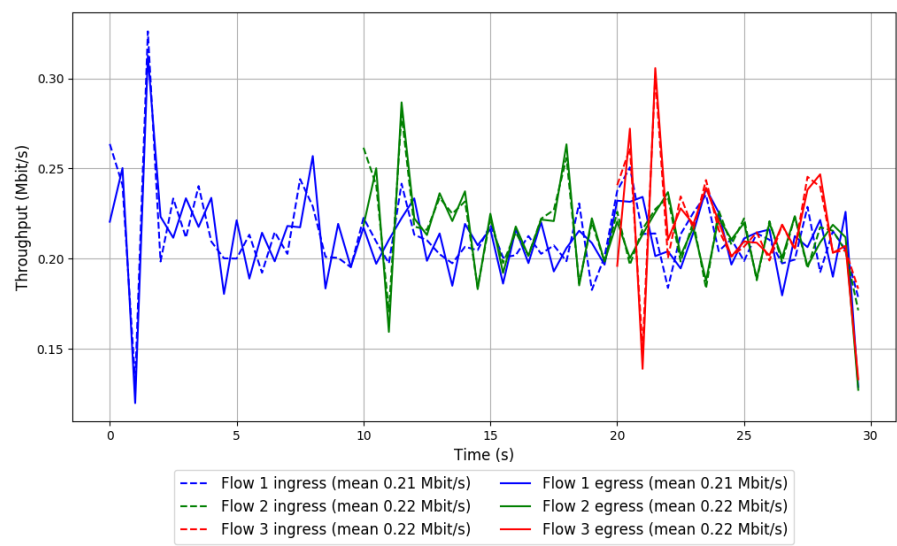
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.887 ms

Loss rate: 1.87%

Run 6: Report of SReAM — Data Link



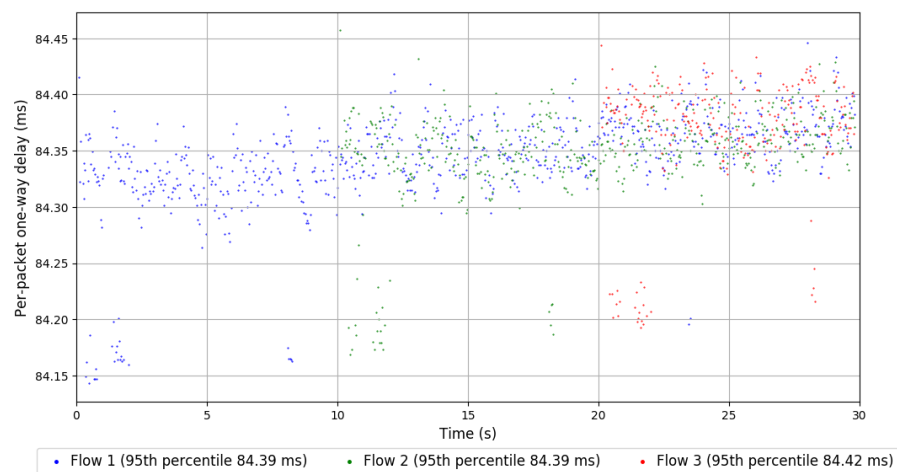
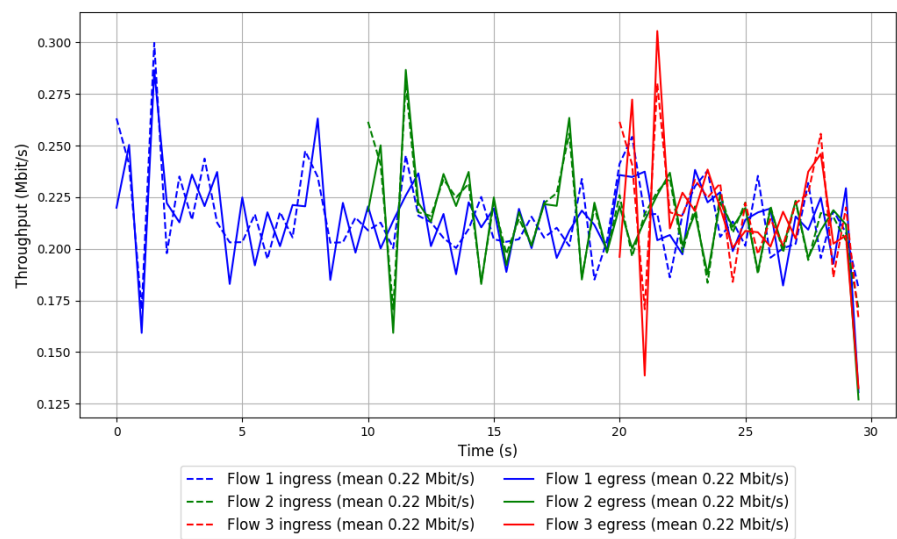
Run 7: Statistics of SReAM

Start at: 2018-03-21 02:18:23  
End at: 2018-03-21 02:18:53  
Local clock offset: -3.559 ms  
Remote clock offset: -0.436 ms

# Below is generated by plot.py at 2018-03-21 07:56:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 84.404 ms  
Loss rate: 0.91%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 84.394 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 84.394 ms  
Loss rate: 0.84%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 84.417 ms  
Loss rate: 1.87%



Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-03-21 02:42:15

End at: 2018-03-21 02:42:45

Local clock offset: -4.066 ms

Remote clock offset: 2.532 ms

# Below is generated by plot.py at 2018-03-21 07:56:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 80.371 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.385 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.160 ms

Loss rate: 0.84%

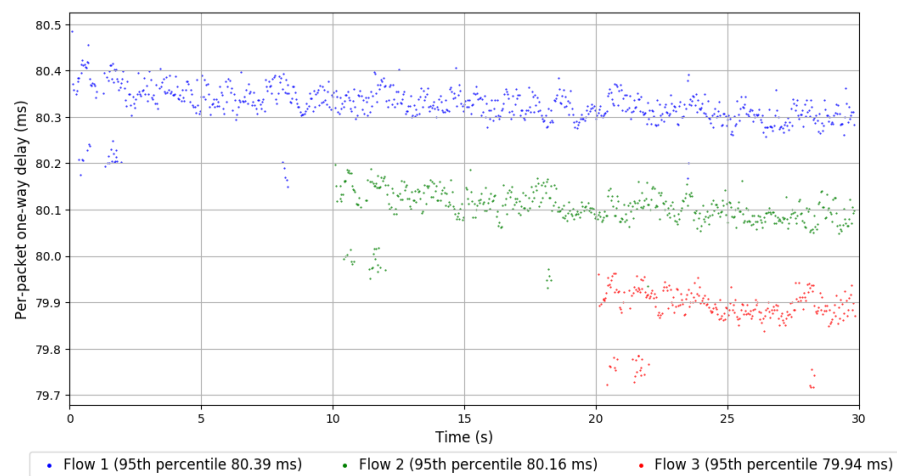
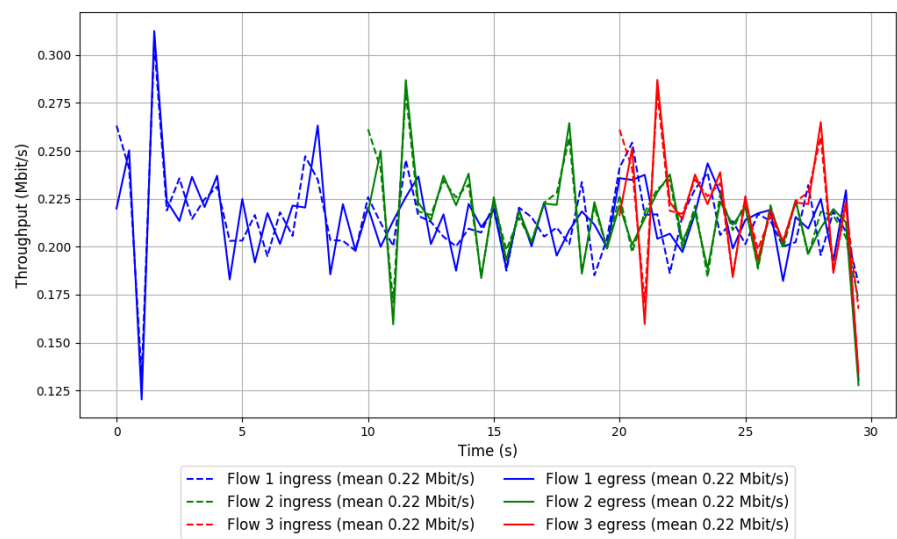
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.943 ms

Loss rate: 1.49%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-03-21 03:06:11

End at: 2018-03-21 03:06:41

Local clock offset: -5.617 ms

Remote clock offset: 1.621 ms

# Below is generated by plot.py at 2018-03-21 07:56:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 80.377 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.380 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.046 ms

Loss rate: 0.84%

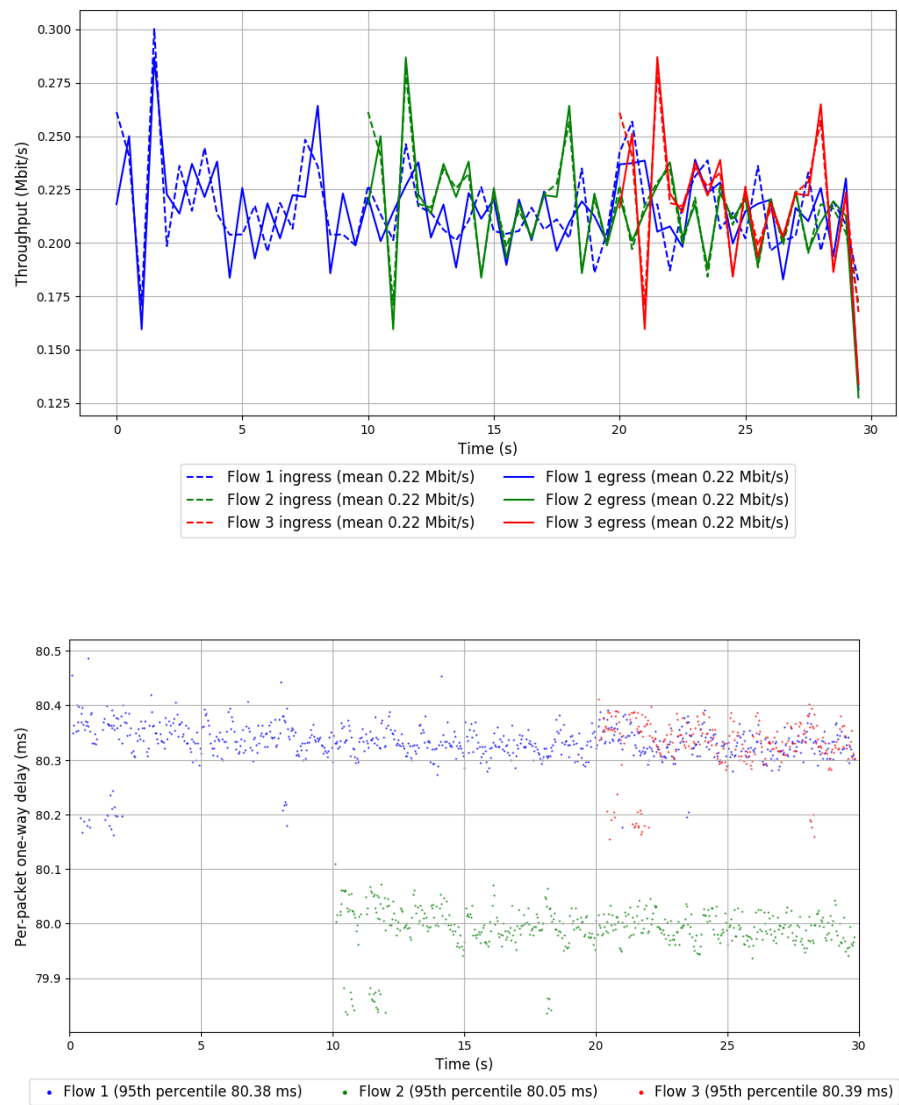
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.386 ms

Loss rate: 1.49%

Run 9: Report of SReAM — Data Link

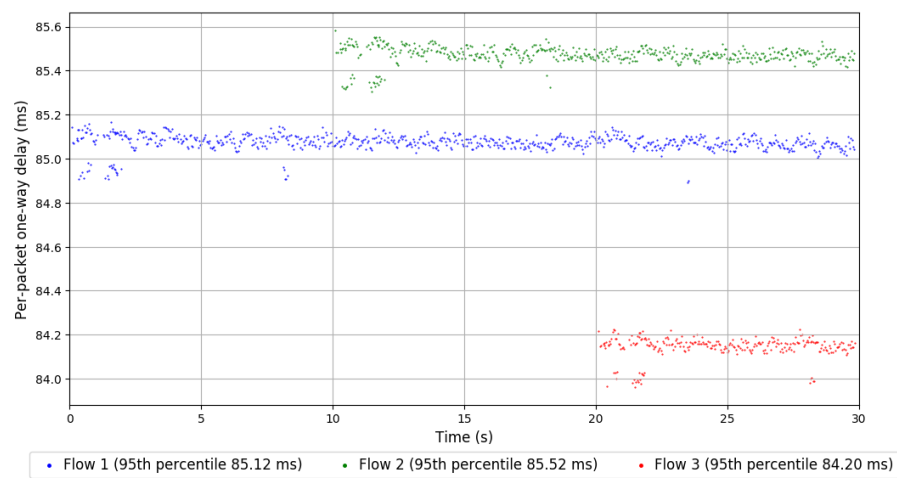
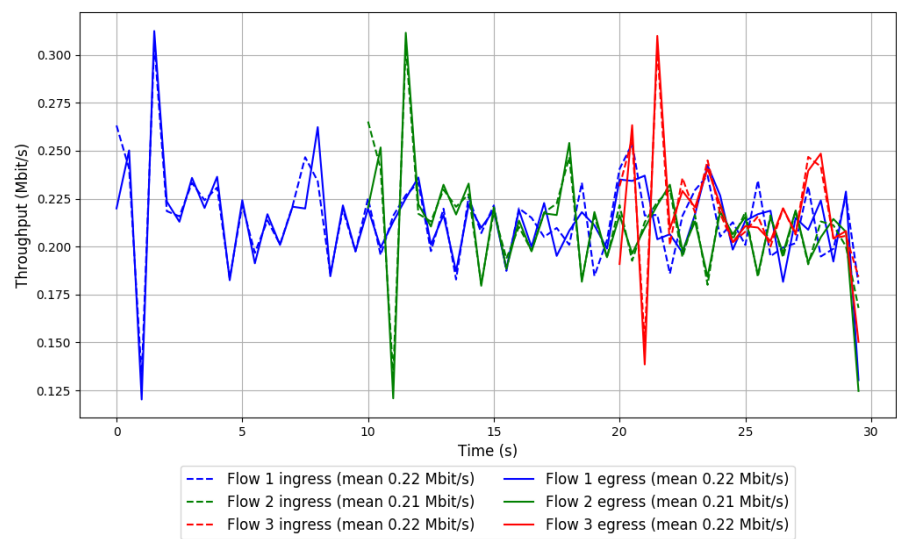


Run 10: Statistics of SReAM

Start at: 2018-03-21 03:30:14  
End at: 2018-03-21 03:30:44  
Local clock offset: -5.652 ms  
Remote clock offset: -3.061 ms

# Below is generated by plot.py at 2018-03-21 07:56:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 85.506 ms  
Loss rate: 0.85%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 85.123 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 85.523 ms  
Loss rate: 0.84%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 84.199 ms  
Loss rate: 1.50%

Run 10: Report of SReAM — Data Link



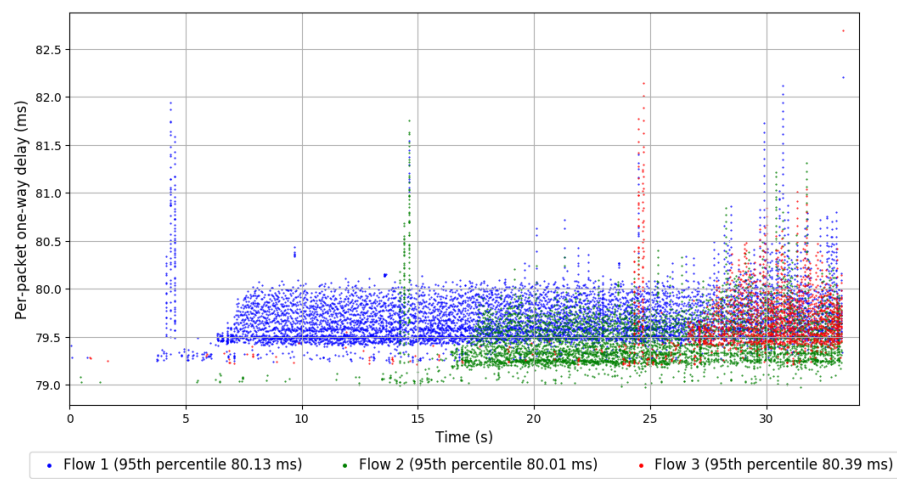
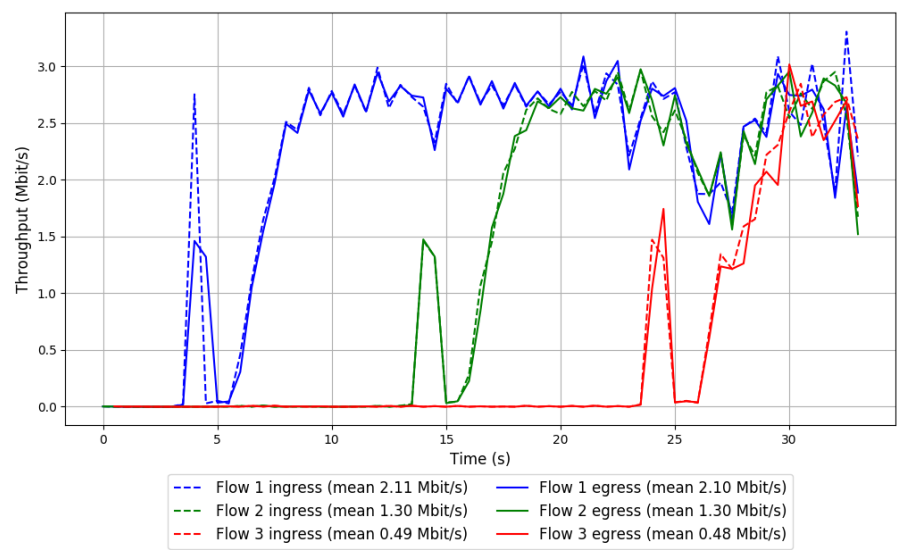
Run 1: Statistics of WebRTC media

Start at: 2018-03-21 00:06:48  
End at: 2018-03-21 00:07:18  
Local clock offset: -13.818 ms  
Remote clock offset: 8.898 ms

# Below is generated by plot.py at 2018-03-21 07:56:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.86 Mbit/s  
95th percentile per-packet one-way delay: 80.145 ms  
Loss rate: 1.16%  
-- Flow 1:  
Average throughput: 2.10 Mbit/s  
95th percentile per-packet one-way delay: 80.133 ms  
Loss rate: 0.91%  
-- Flow 2:  
Average throughput: 1.30 Mbit/s  
95th percentile per-packet one-way delay: 80.013 ms  
Loss rate: 0.63%  
-- Flow 3:  
Average throughput: 0.48 Mbit/s  
95th percentile per-packet one-way delay: 80.395 ms  
Loss rate: 3.64%



Run 1: Report of WebRTC media — Data Link

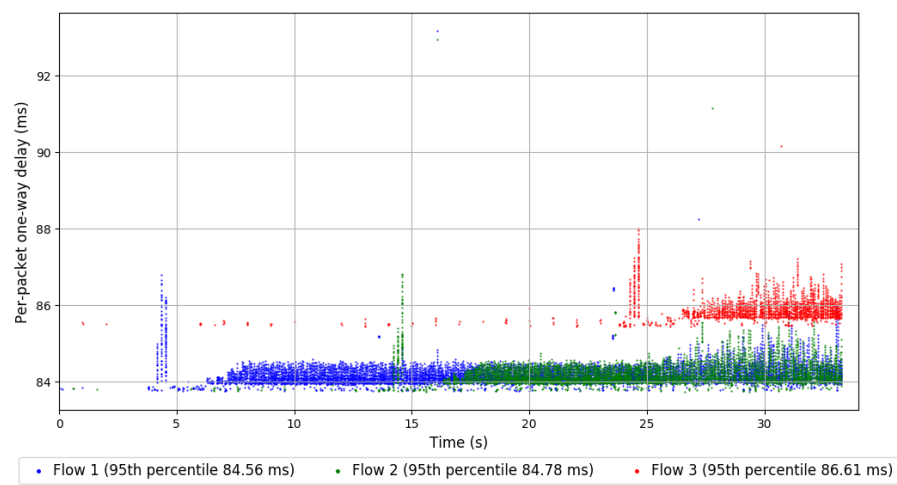
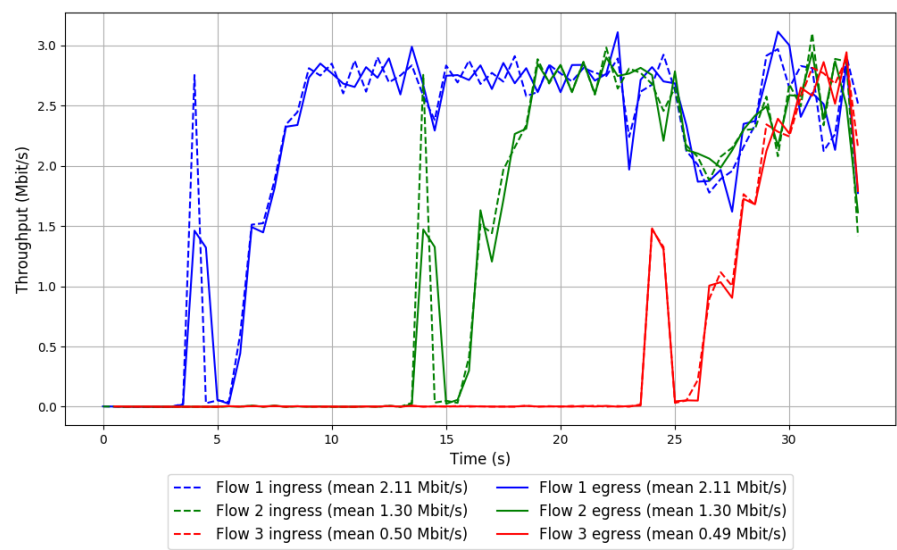


Run 2: Statistics of WebRTC media

Start at: 2018-03-21 00:30:39  
End at: 2018-03-21 00:31:09  
Local clock offset: -14.182 ms  
Remote clock offset: 1.605 ms

# Below is generated by plot.py at 2018-03-21 07:56:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.87 Mbit/s  
95th percentile per-packet one-way delay: 85.928 ms  
Loss rate: 1.03%  
-- Flow 1:  
Average throughput: 2.11 Mbit/s  
95th percentile per-packet one-way delay: 84.565 ms  
Loss rate: 0.84%  
-- Flow 2:  
Average throughput: 1.30 Mbit/s  
95th percentile per-packet one-way delay: 84.779 ms  
Loss rate: 0.68%  
-- Flow 3:  
Average throughput: 0.49 Mbit/s  
95th percentile per-packet one-way delay: 86.612 ms  
Loss rate: 2.82%

Run 2: Report of WebRTC media — Data Link

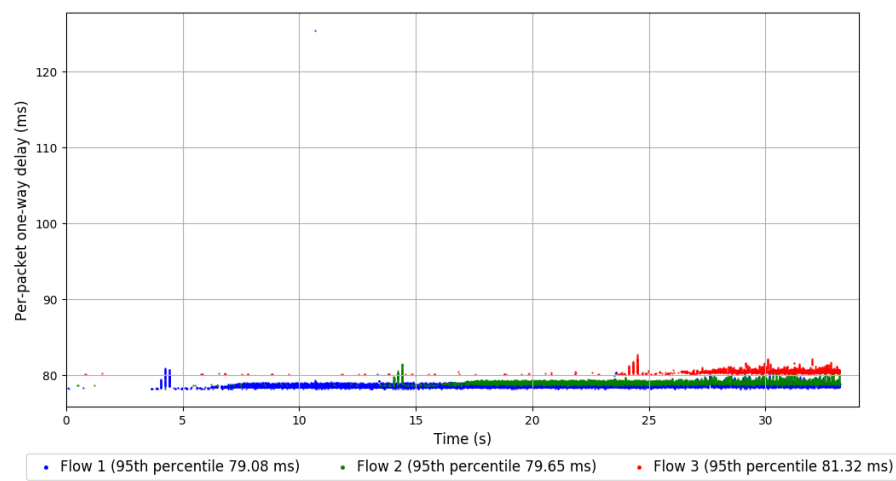
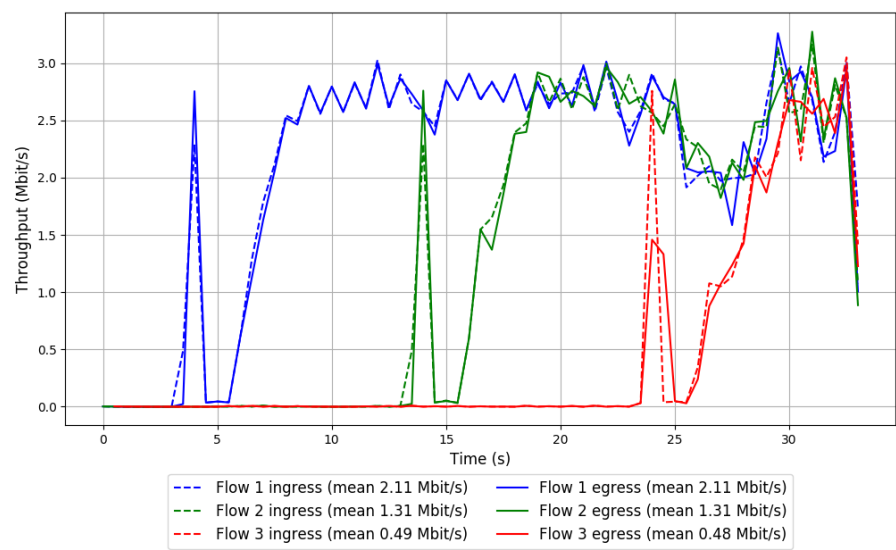


Run 3: Statistics of WebRTC media

Start at: 2018-03-21 00:54:40  
End at: 2018-03-21 00:55:10  
Local clock offset: -14.175 ms  
Remote clock offset: 6.277 ms

# Below is generated by plot.py at 2018-03-21 07:56:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.88 Mbit/s  
95th percentile per-packet one-way delay: 80.626 ms  
Loss rate: 0.96%  
-- Flow 1:  
Average throughput: 2.11 Mbit/s  
95th percentile per-packet one-way delay: 79.084 ms  
Loss rate: 0.89%  
-- Flow 2:  
Average throughput: 1.31 Mbit/s  
95th percentile per-packet one-way delay: 79.646 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 0.48 Mbit/s  
95th percentile per-packet one-way delay: 81.320 ms  
Loss rate: 2.20%

Run 3: Report of WebRTC media — Data Link

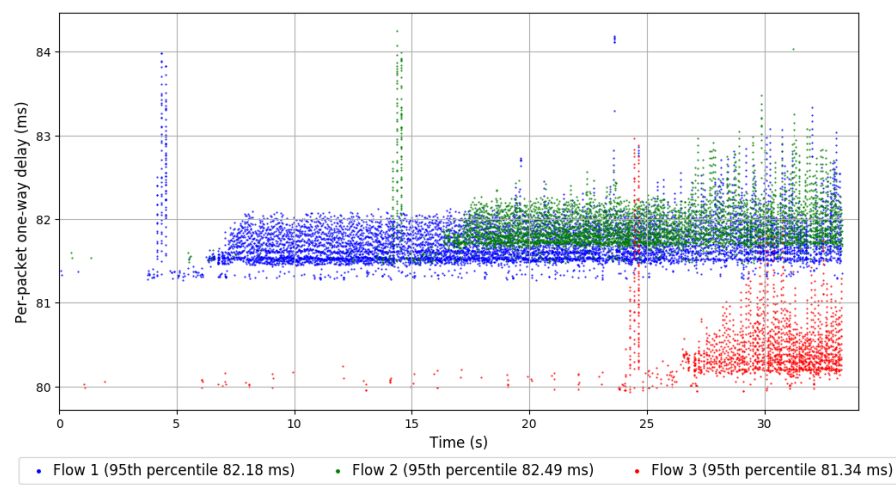
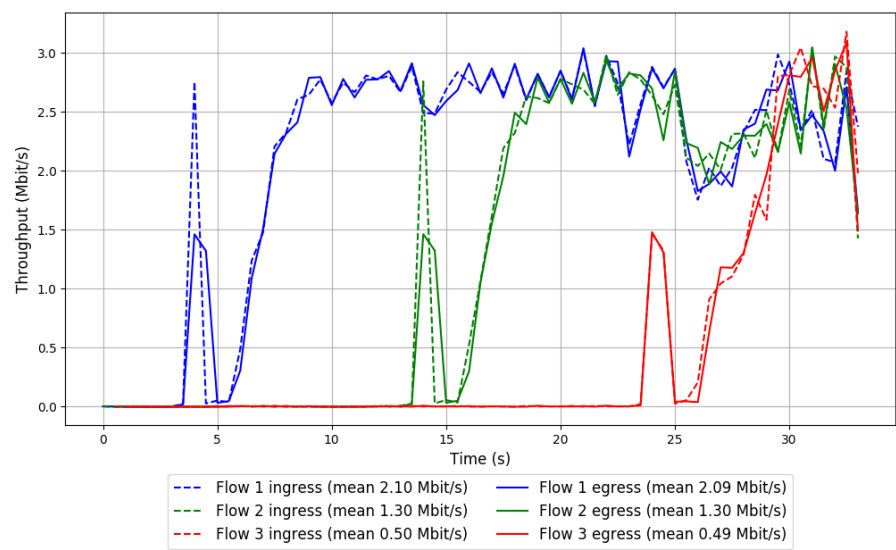


Run 4: Statistics of WebRTC media

Start at: 2018-03-21 01:18:34  
End at: 2018-03-21 01:19:04  
Local clock offset: -14.301 ms  
Remote clock offset: 5.544 ms

```
# Below is generated by plot.py at 2018-03-21 07:56:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.85 Mbit/s
95th percentile per-packet one-way delay: 82.285 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 2.09 Mbit/s
95th percentile per-packet one-way delay: 82.182 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 82.490 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 81.340 ms
Loss rate: 2.65%
```

Run 4: Report of WebRTC media — Data Link



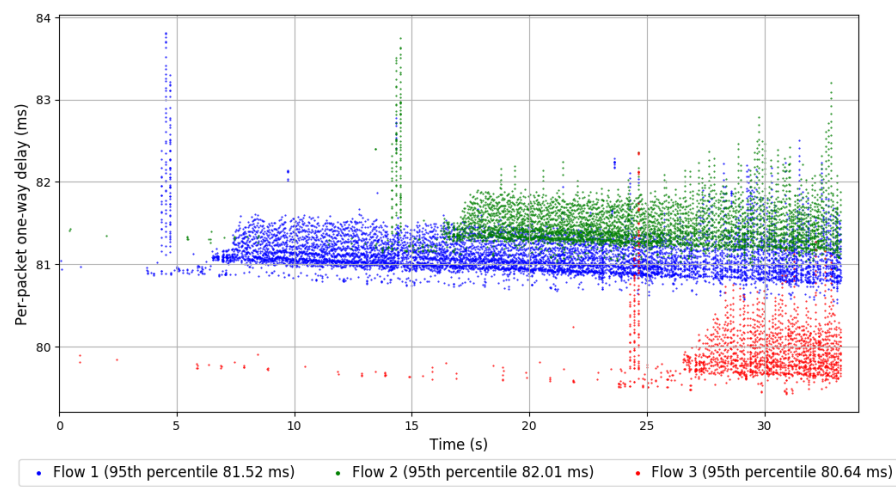
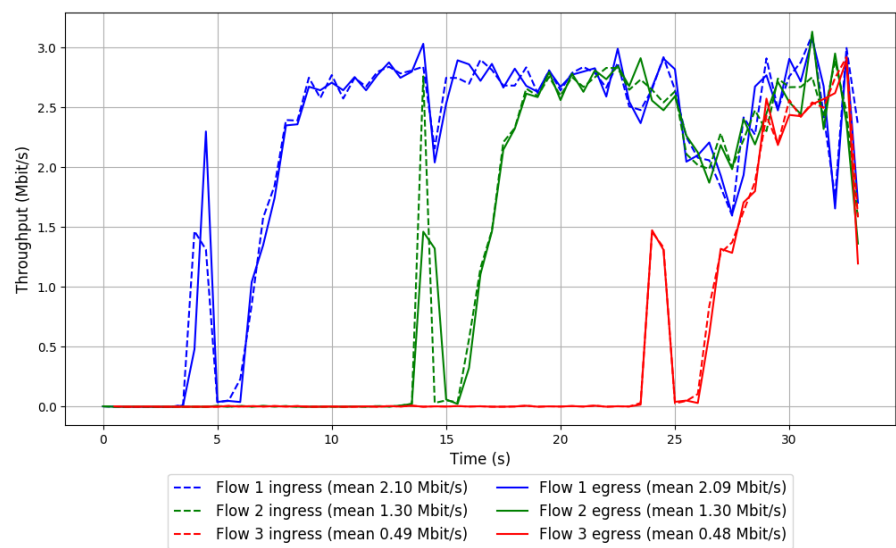
Run 5: Statistics of WebRTC media

Start at: 2018-03-21 01:42:28  
End at: 2018-03-21 01:42:58  
Local clock offset: -10.486 ms  
Remote clock offset: 4.712 ms

# Below is generated by plot.py at 2018-03-21 07:56:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.85 Mbit/s  
95th percentile per-packet one-way delay: 81.789 ms  
Loss rate: 1.01%  
-- Flow 1:  
Average throughput: 2.09 Mbit/s  
95th percentile per-packet one-way delay: 81.518 ms  
Loss rate: 0.75%  
-- Flow 2:  
Average throughput: 1.30 Mbit/s  
95th percentile per-packet one-way delay: 82.009 ms  
Loss rate: 0.84%  
-- Flow 3:  
Average throughput: 0.48 Mbit/s  
95th percentile per-packet one-way delay: 80.641 ms  
Loss rate: 2.61%



Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-03-21 02:06:26

End at: 2018-03-21 02:06:56

Local clock offset: -2.533 ms

Remote clock offset: 3.84 ms

# Below is generated by plot.py at 2018-03-21 07:56:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.84 Mbit/s

95th percentile per-packet one-way delay: 82.186 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 82.275 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 80.999 ms

Loss rate: 0.87%

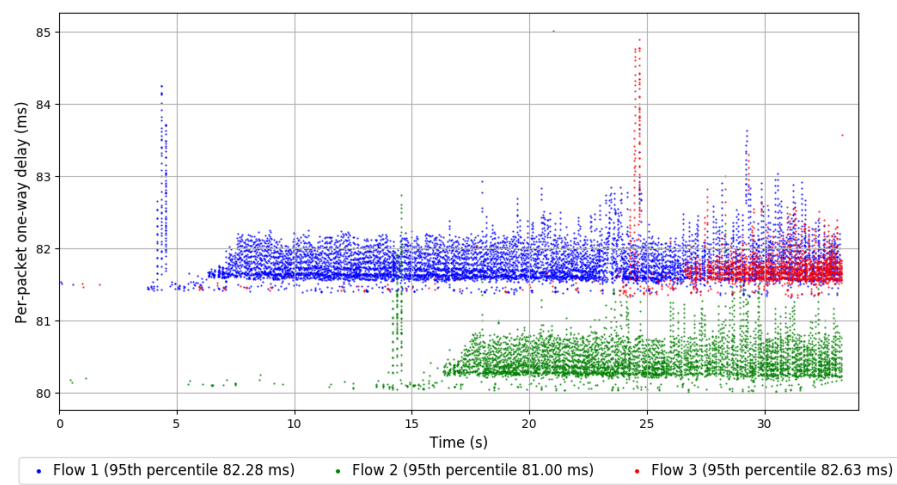
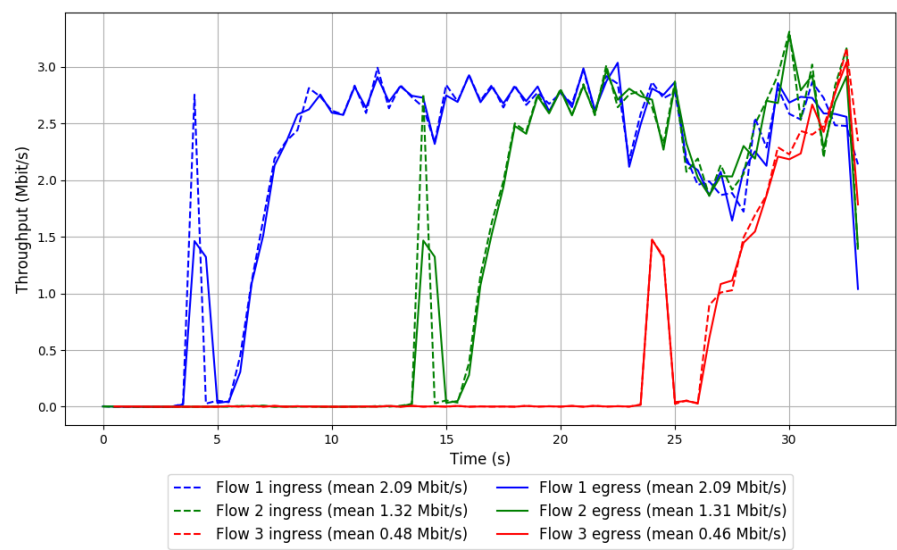
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 82.630 ms

Loss rate: 3.57%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-03-21 02:30:20

End at: 2018-03-21 02:30:50

Local clock offset: -4.503 ms

Remote clock offset: 2.973 ms

# Below is generated by plot.py at 2018-03-21 07:56:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.85 Mbit/s

95th percentile per-packet one-way delay: 82.247 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 82.481 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 81.181 ms

Loss rate: 0.61%

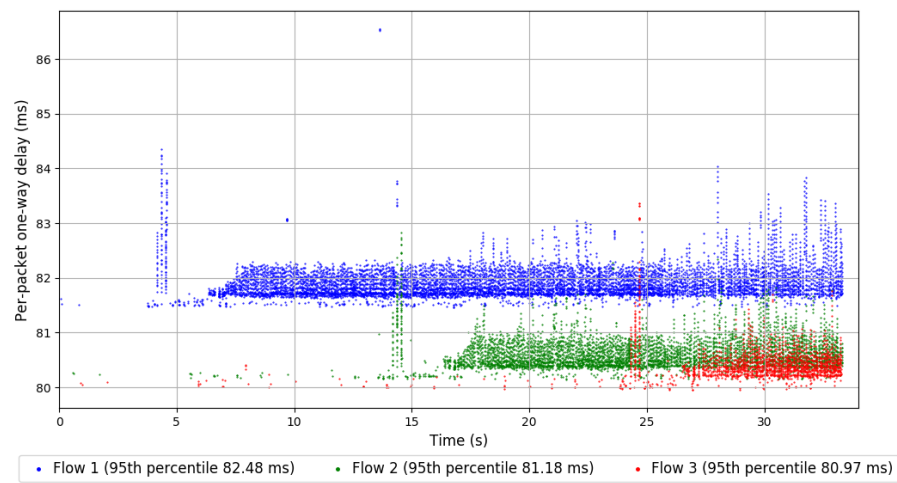
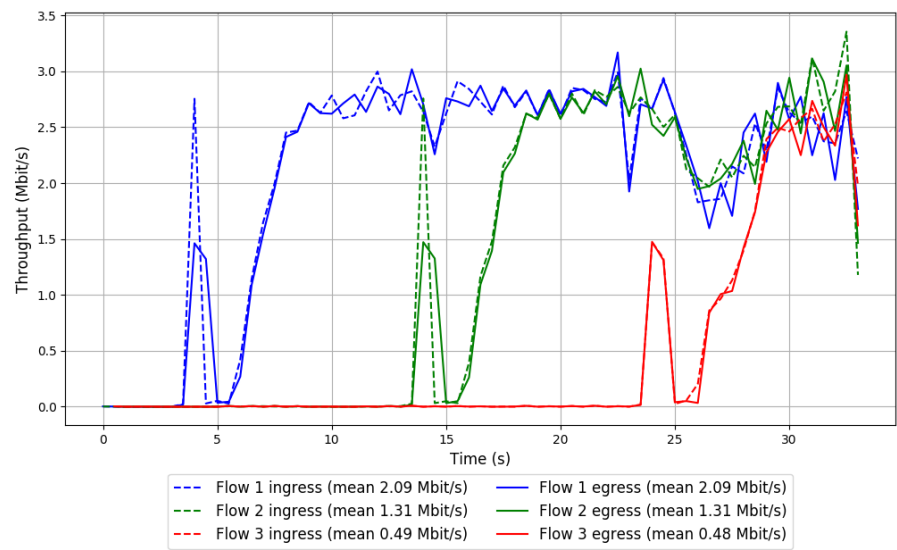
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 80.970 ms

Loss rate: 2.54%

Run 7: Report of WebRTC media — Data Link

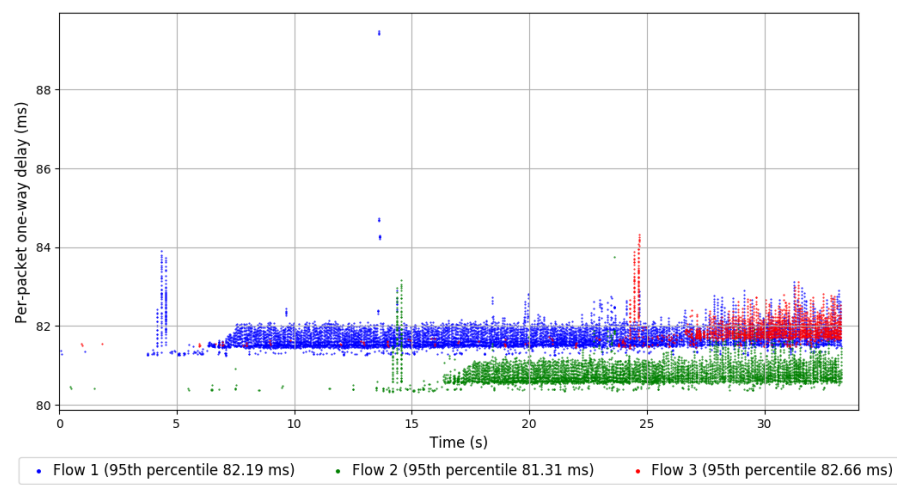
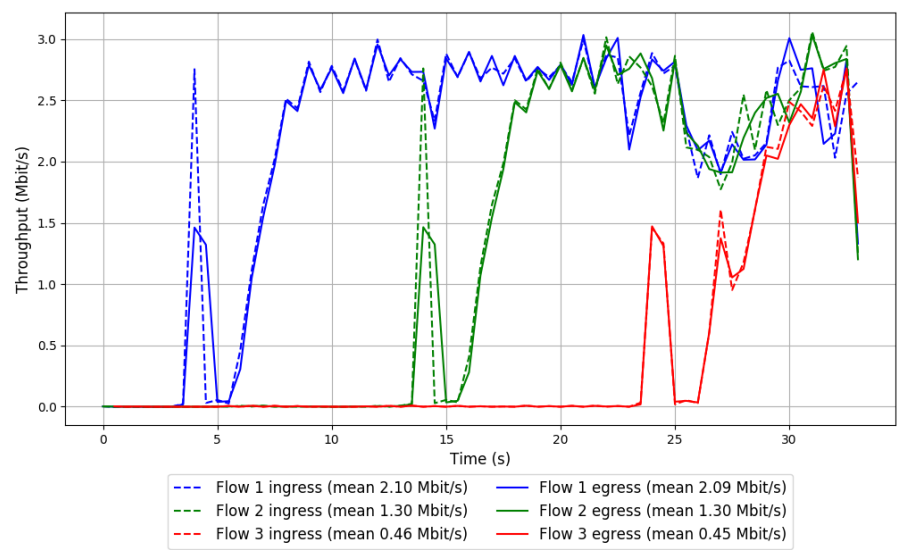


Run 8: Statistics of WebRTC media

Start at: 2018-03-21 02:54:11  
End at: 2018-03-21 02:54:41  
Local clock offset: -5.043 ms  
Remote clock offset: 2.003 ms

# Below is generated by plot.py at 2018-03-21 07:56:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.82 Mbit/s  
95th percentile per-packet one-way delay: 82.214 ms  
Loss rate: 1.02%  
-- Flow 1:  
Average throughput: 2.09 Mbit/s  
95th percentile per-packet one-way delay: 82.188 ms  
Loss rate: 0.94%  
-- Flow 2:  
Average throughput: 1.30 Mbit/s  
95th percentile per-packet one-way delay: 81.315 ms  
Loss rate: 0.63%  
-- Flow 3:  
Average throughput: 0.45 Mbit/s  
95th percentile per-packet one-way delay: 82.664 ms  
Loss rate: 2.52%

Run 8: Report of WebRTC media — Data Link



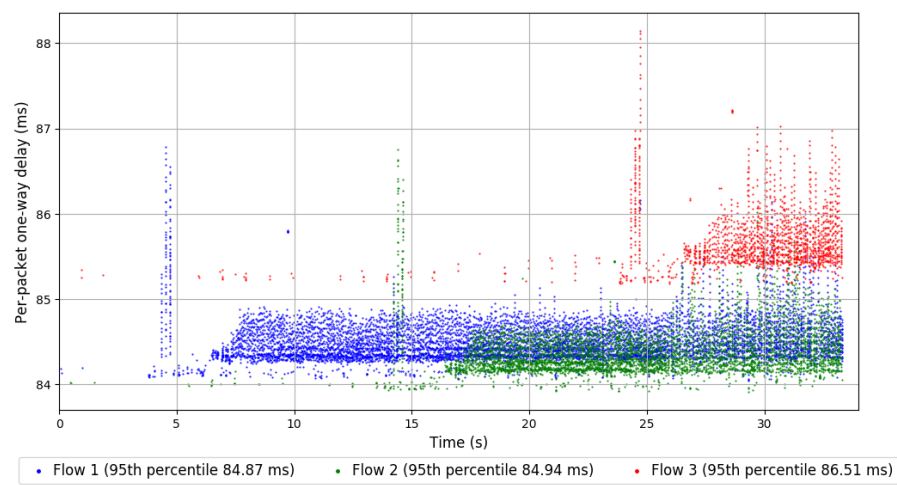
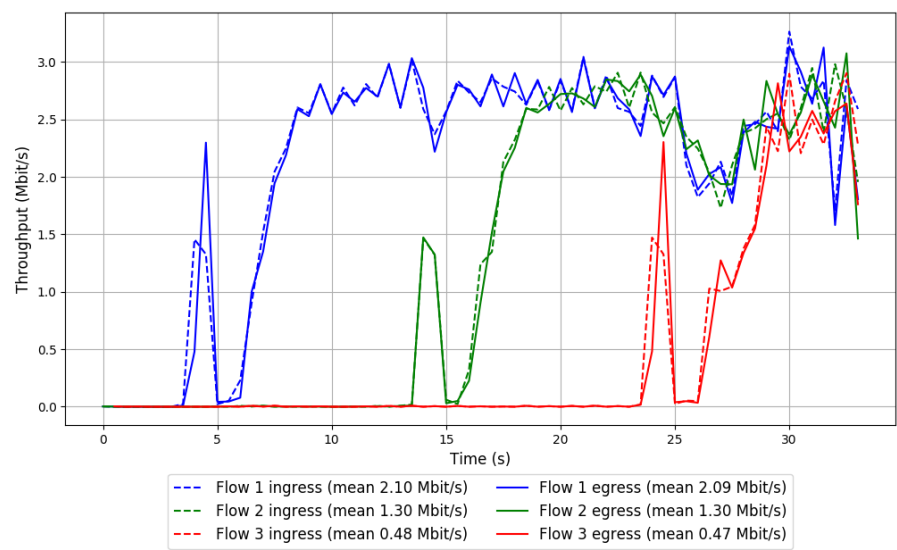
Run 9: Statistics of WebRTC media

Start at: 2018-03-21 03:18:16  
End at: 2018-03-21 03:18:46  
Local clock offset: -5.454 ms  
Remote clock offset: -2.712 ms

# Below is generated by plot.py at 2018-03-21 07:56:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.83 Mbit/s  
95th percentile per-packet one-way delay: 85.743 ms  
Loss rate: 1.27%  
-- Flow 1:  
Average throughput: 2.09 Mbit/s  
95th percentile per-packet one-way delay: 84.874 ms  
Loss rate: 0.94%  
-- Flow 2:  
Average throughput: 1.30 Mbit/s  
95th percentile per-packet one-way delay: 84.939 ms  
Loss rate: 0.83%  
-- Flow 3:  
Average throughput: 0.47 Mbit/s  
95th percentile per-packet one-way delay: 86.511 ms  
Loss rate: 3.93%



Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-03-21 03:42:10

End at: 2018-03-21 03:42:40

Local clock offset: -5.59 ms

Remote clock offset: 0.314 ms

# Below is generated by plot.py at 2018-03-21 07:56:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.87 Mbit/s

95th percentile per-packet one-way delay: 82.078 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 80.531 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 82.355 ms

Loss rate: 0.58%

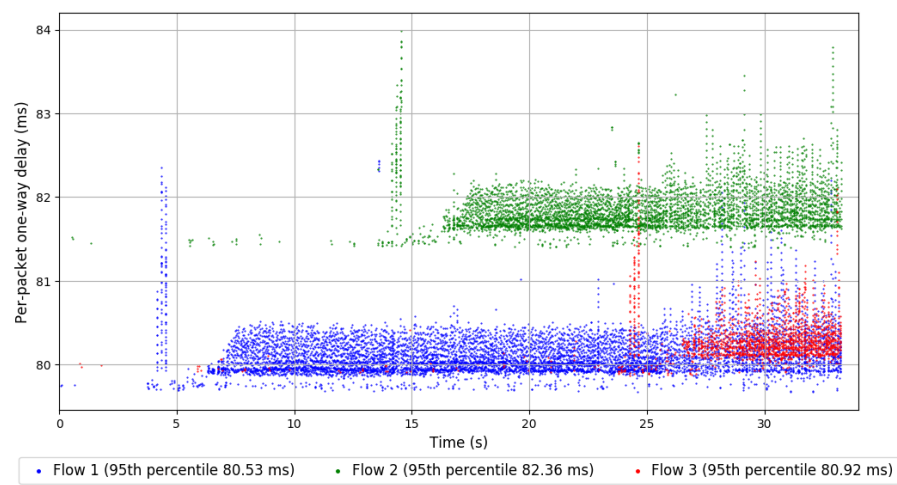
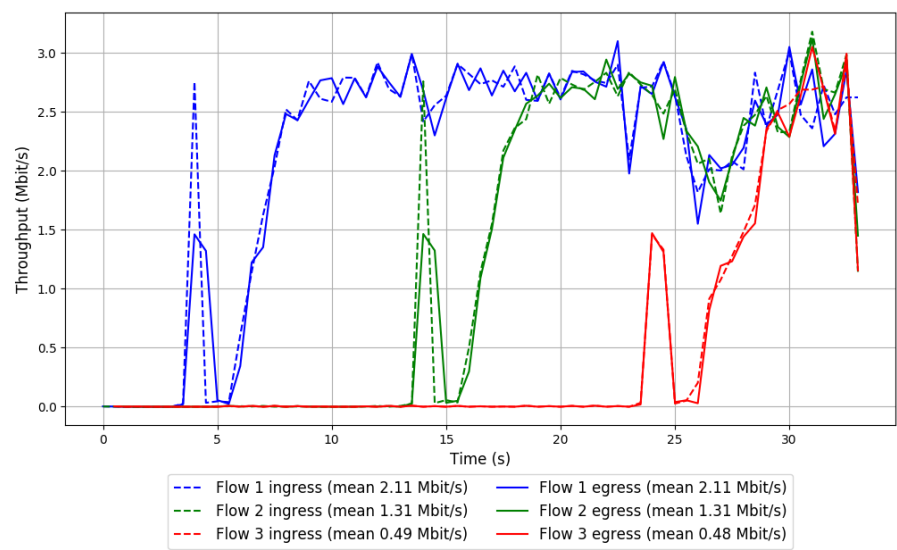
-- Flow 3:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 80.916 ms

Loss rate: 2.70%

Run 10: Report of WebRTC media — Data Link

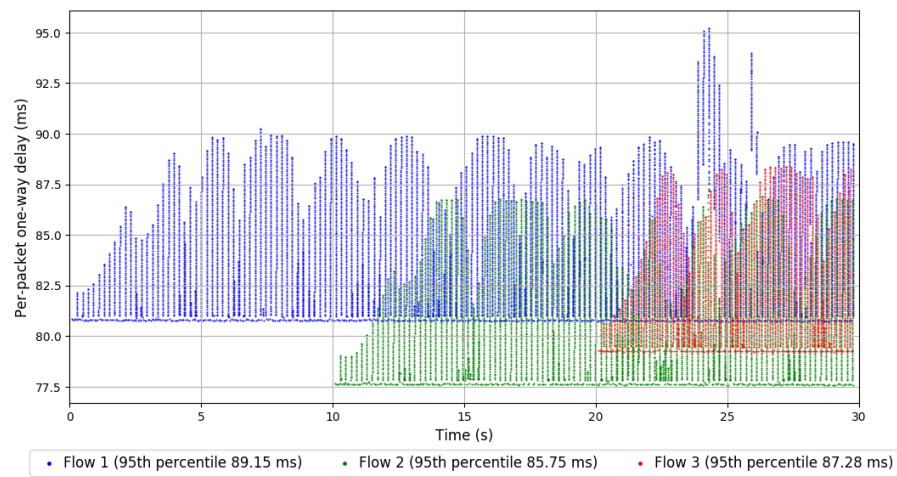
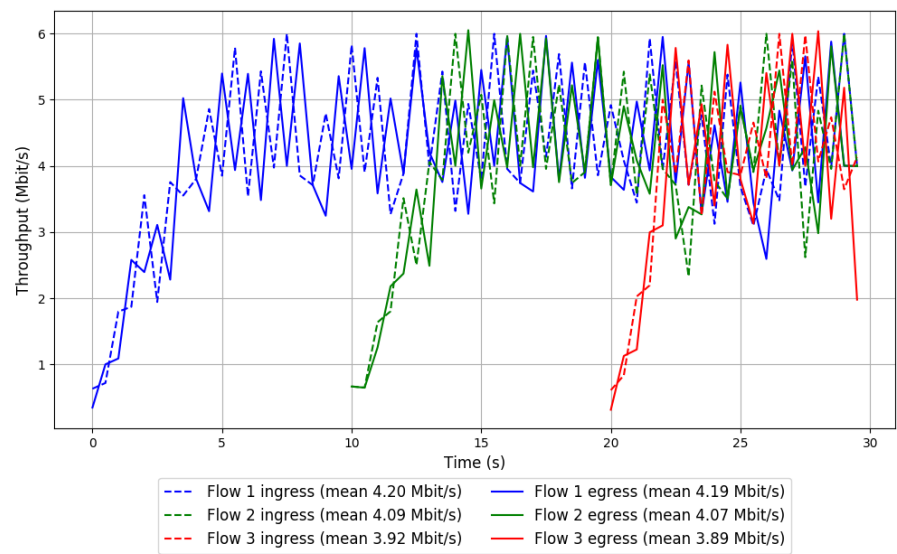


Run 1: Statistics of Sprout

Start at: 2018-03-20 23:53:26  
End at: 2018-03-20 23:53:56  
Local clock offset: -13.184 ms  
Remote clock offset: 9.484 ms

# Below is generated by plot.py at 2018-03-21 07:56:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.16 Mbit/s  
95th percentile per-packet one-way delay: 88.392 ms  
Loss rate: 1.25%  
-- Flow 1:  
Average throughput: 4.19 Mbit/s  
95th percentile per-packet one-way delay: 89.147 ms  
Loss rate: 0.80%  
-- Flow 2:  
Average throughput: 4.07 Mbit/s  
95th percentile per-packet one-way delay: 85.747 ms  
Loss rate: 1.23%  
-- Flow 3:  
Average throughput: 3.89 Mbit/s  
95th percentile per-packet one-way delay: 87.277 ms  
Loss rate: 2.79%

Run 1: Report of Sprout — Data Link

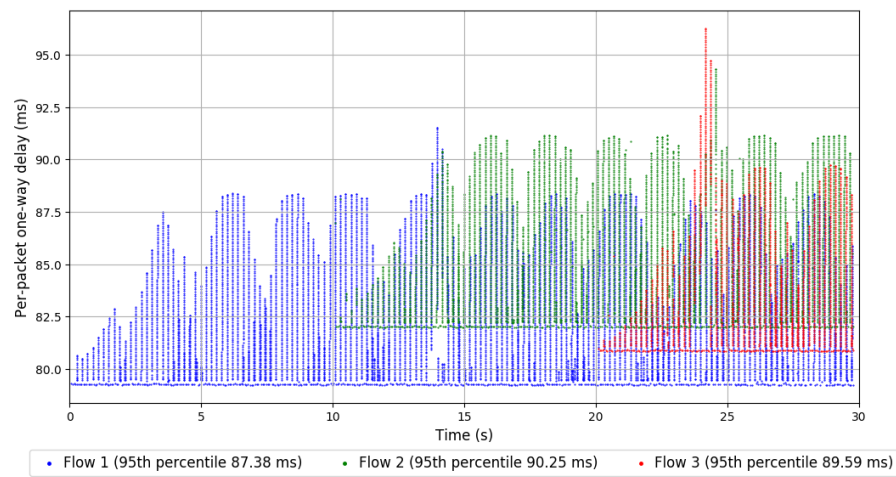
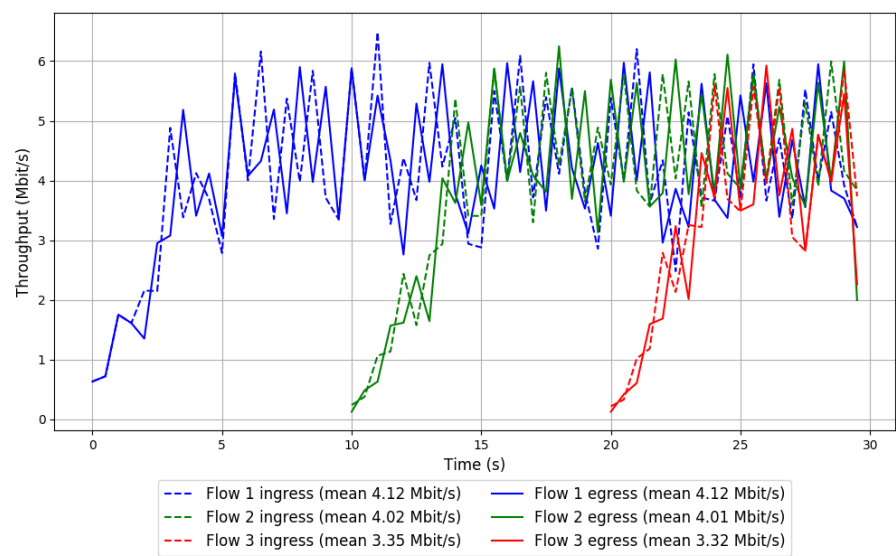


## Run 2: Statistics of Sprout

Start at: 2018-03-21 00:17:27  
End at: 2018-03-21 00:17:57  
Local clock offset: -14.124 ms  
Remote clock offset: 6.789 ms

```
# Below is generated by plot.py at 2018-03-21 07:56:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.85 Mbit/s
95th percentile per-packet one-way delay: 89.265 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 4.12 Mbit/s
95th percentile per-packet one-way delay: 87.376 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 4.01 Mbit/s
95th percentile per-packet one-way delay: 90.251 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 3.32 Mbit/s
95th percentile per-packet one-way delay: 89.591 ms
Loss rate: 2.84%
```

Run 2: Report of Sprout — Data Link



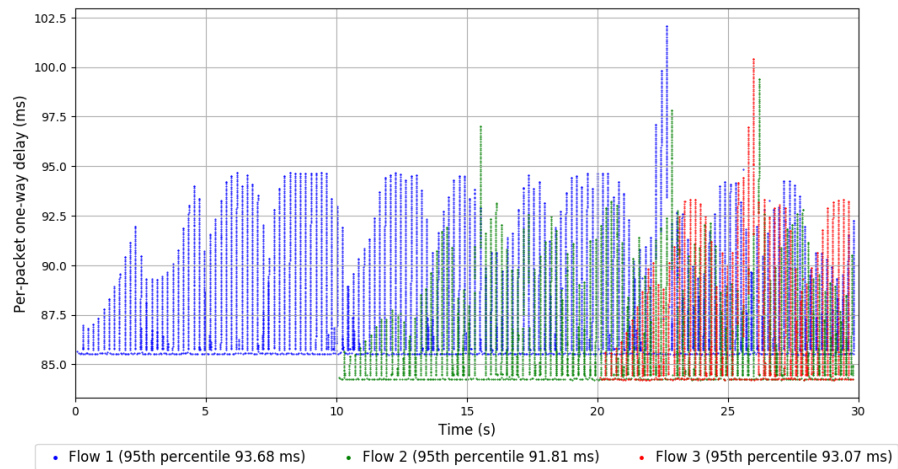
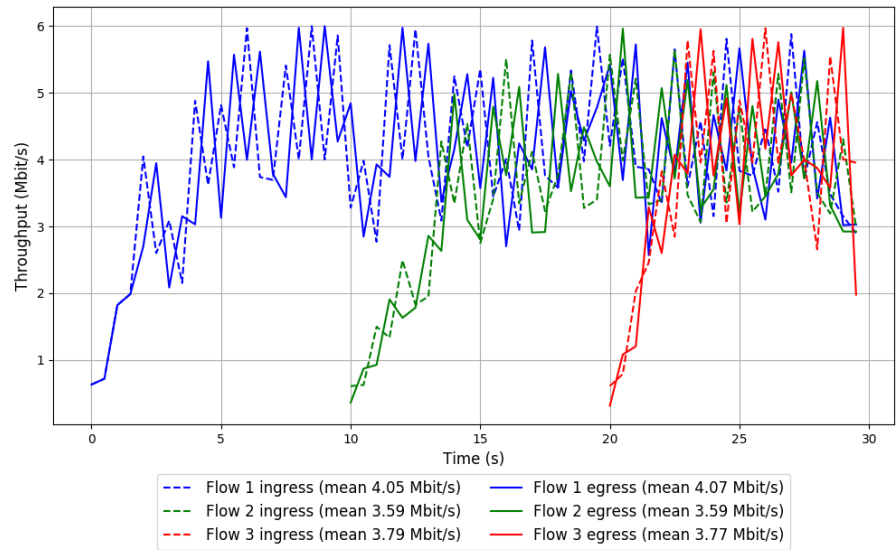
### Run 3: Statistics of Sprout

Start at: 2018-03-21 00:41:21  
End at: 2018-03-21 00:41:51  
Local clock offset: -14.154 ms  
Remote clock offset: 1.183 ms

```
# Below is generated by plot.py at 2018-03-21 07:56:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.68 Mbit/s
95th percentile per-packet one-way delay: 93.317 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 4.07 Mbit/s
95th percentile per-packet one-way delay: 93.678 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.59 Mbit/s
95th percentile per-packet one-way delay: 91.806 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 3.77 Mbit/s
95th percentile per-packet one-way delay: 93.073 ms
Loss rate: 2.64%
```



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

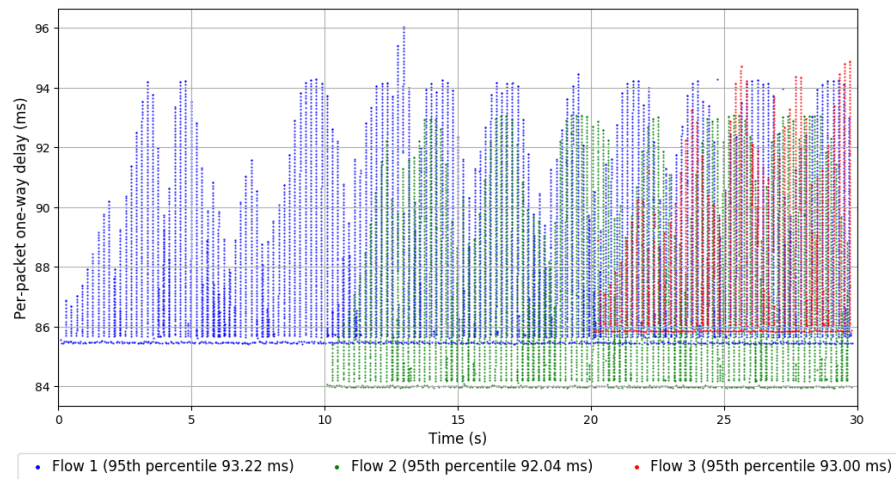
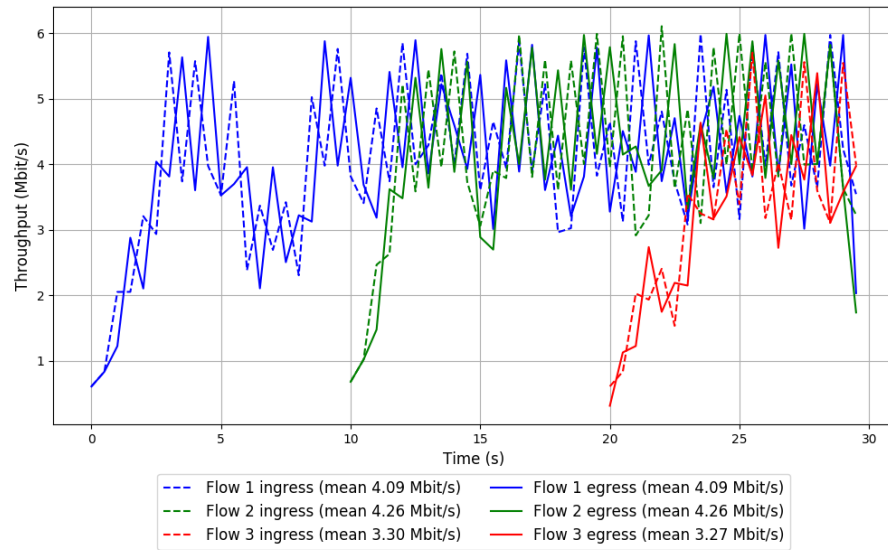


#### Run 4: Statistics of Sprout

Start at: 2018-03-21 01:05:21  
End at: 2018-03-21 01:05:51  
Local clock offset: -14.22 ms  
Remote clock offset: 0.41 ms

```
# Below is generated by plot.py at 2018-03-21 07:56:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.97 Mbit/s
95th percentile per-packet one-way delay: 92.812 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 93.219 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 4.26 Mbit/s
95th percentile per-packet one-way delay: 92.044 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 3.27 Mbit/s
95th percentile per-packet one-way delay: 93.002 ms
Loss rate: 3.06%
```

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

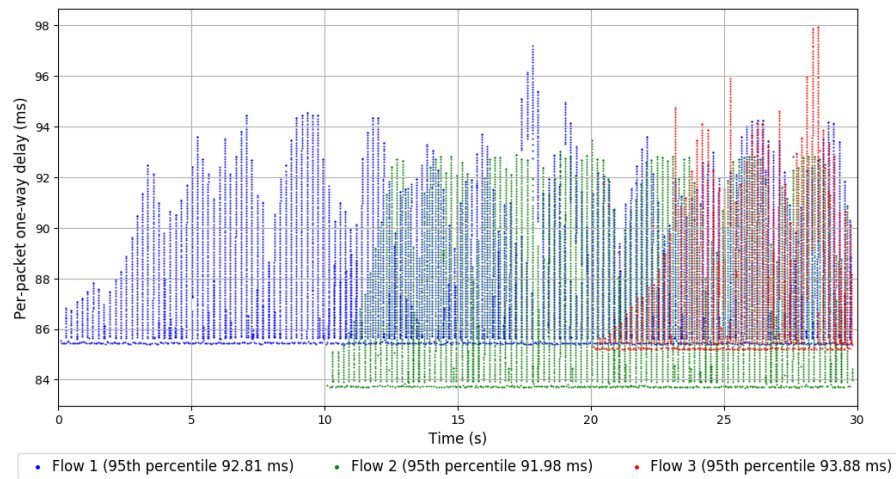
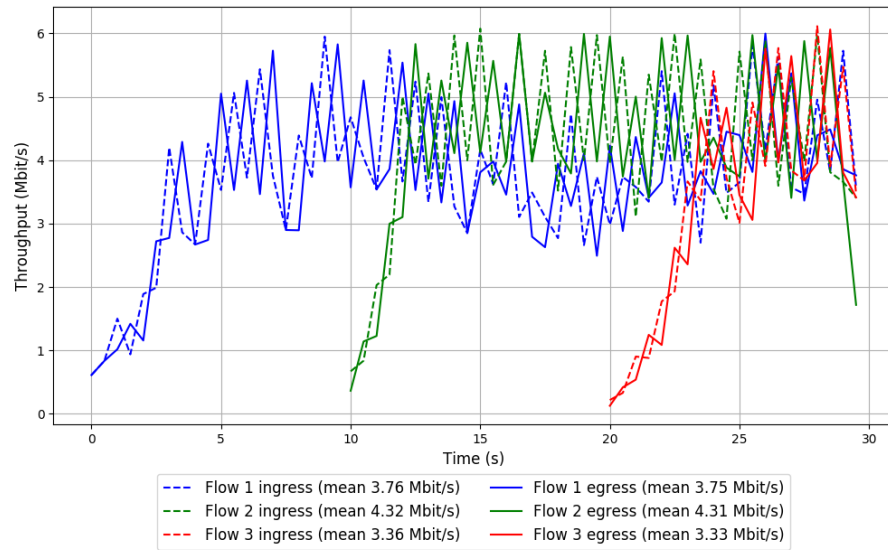


Run 5: Statistics of Sprout

Start at: 2018-03-21 01:29:16  
End at: 2018-03-21 01:29:46  
Local clock offset: -14.276 ms  
Remote clock offset: 1.306 ms

# Below is generated by plot.py at 2018-03-21 07:56:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 7.70 Mbit/s  
95th percentile per-packet one-way delay: 92.606 ms  
Loss rate: 1.10%  
-- Flow 1:  
Average throughput: 3.75 Mbit/s  
95th percentile per-packet one-way delay: 92.815 ms  
Loss rate: 0.75%  
-- Flow 2:  
Average throughput: 4.31 Mbit/s  
95th percentile per-packet one-way delay: 91.978 ms  
Loss rate: 0.98%  
-- Flow 3:  
Average throughput: 3.33 Mbit/s  
95th percentile per-packet one-way delay: 93.878 ms  
Loss rate: 2.61%

## Run 5: Report of Sprout — Data Link

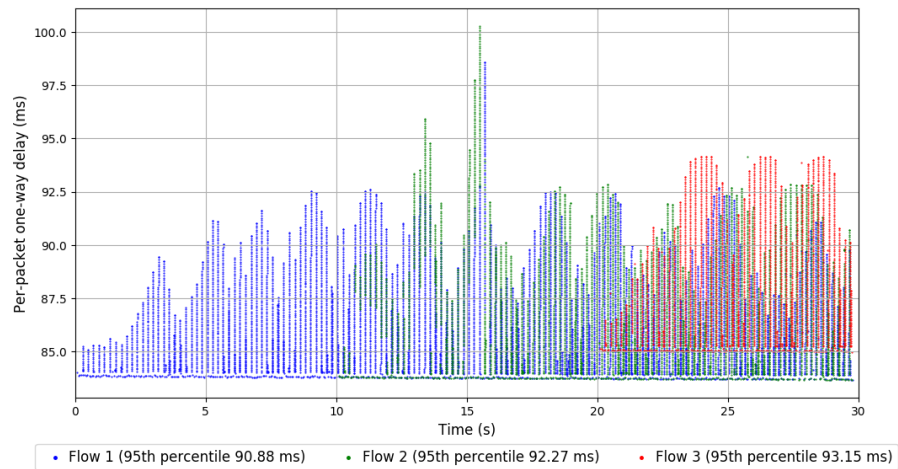
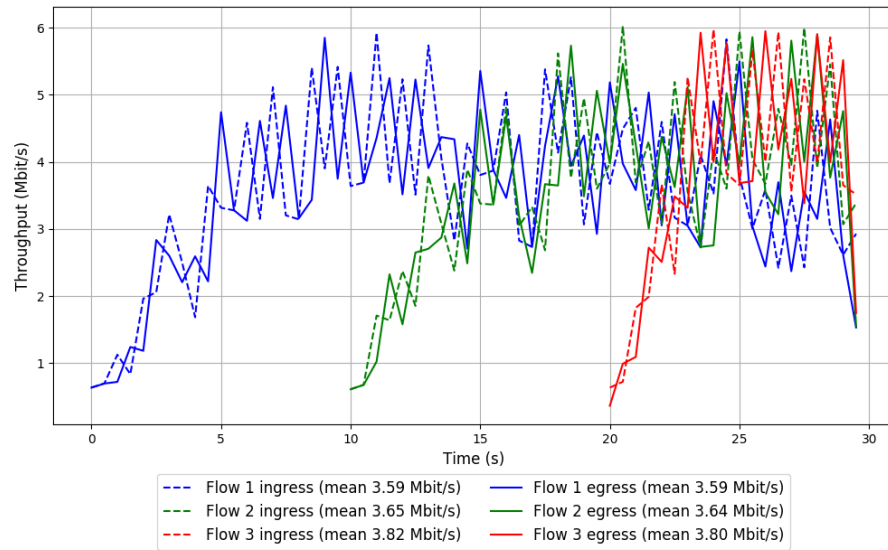


Run 6: Statistics of Sprout

Start at: 2018-03-21 01:53:11  
End at: 2018-03-21 01:53:41  
Local clock offset: -5.58 ms  
Remote clock offset: 0.529 ms

# Below is generated by plot.py at 2018-03-21 07:56:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 7.24 Mbit/s  
95th percentile per-packet one-way delay: 91.964 ms  
Loss rate: 1.15%  
-- Flow 1:  
Average throughput: 3.59 Mbit/s  
95th percentile per-packet one-way delay: 90.882 ms  
Loss rate: 0.65%  
-- Flow 2:  
Average throughput: 3.64 Mbit/s  
95th percentile per-packet one-way delay: 92.267 ms  
Loss rate: 1.26%  
-- Flow 3:  
Average throughput: 3.80 Mbit/s  
95th percentile per-packet one-way delay: 93.153 ms  
Loss rate: 2.35%

## Run 6: Report of Sprout — Data Link



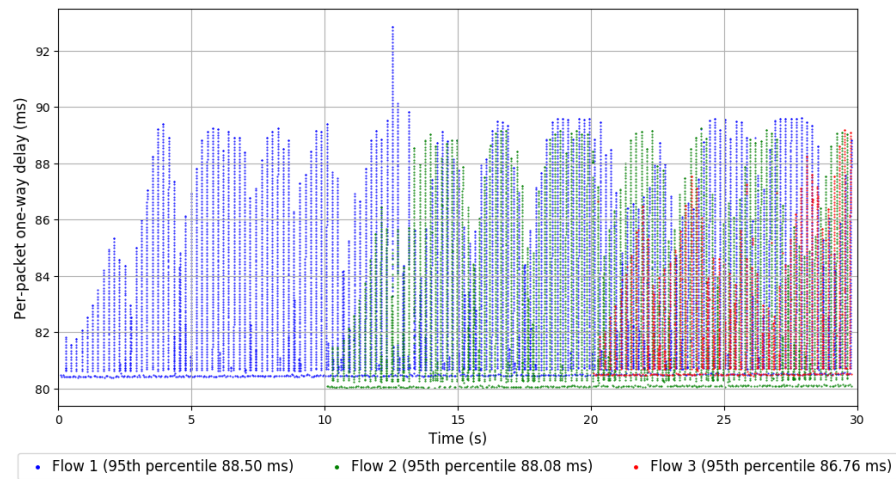
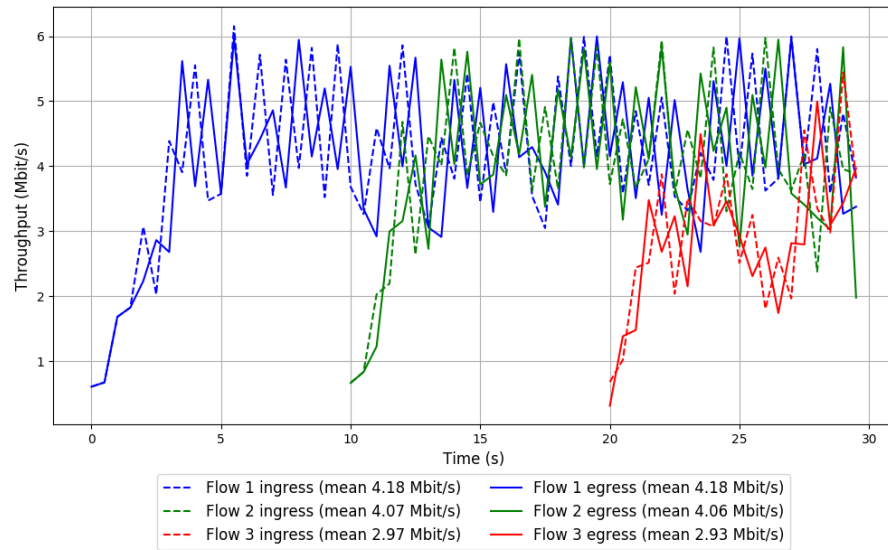
Run 7: Statistics of Sprout

Start at: 2018-03-21 02:17:08  
End at: 2018-03-21 02:17:38  
Local clock offset: -3.257 ms  
Remote clock offset: 3.385 ms

```
# Below is generated by plot.py at 2018-03-21 07:56:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.82 Mbit/s
95th percentile per-packet one-way delay: 88.263 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 4.18 Mbit/s
95th percentile per-packet one-way delay: 88.498 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 4.06 Mbit/s
95th percentile per-packet one-way delay: 88.083 ms
Loss rate: 1.18%
-- Flow 3:
Average throughput: 2.93 Mbit/s
95th percentile per-packet one-way delay: 86.760 ms
Loss rate: 3.21%
```



## Run 7: Report of Sprout — Data Link

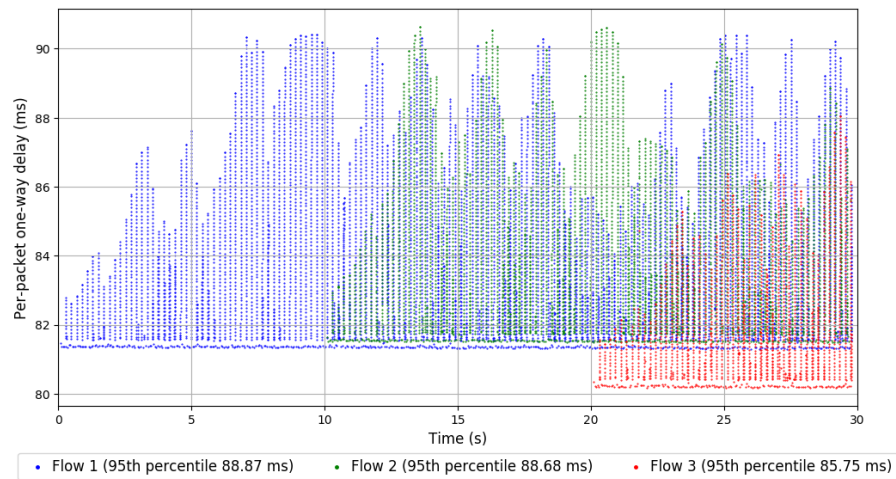
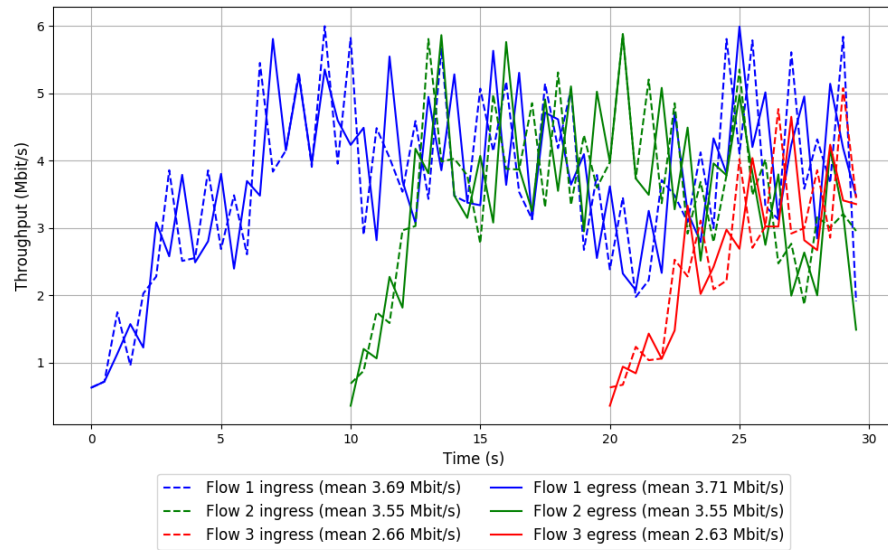


Run 8: Statistics of Sprout

Start at: 2018-03-21 02:41:01  
End at: 2018-03-21 02:41:31  
Local clock offset: -4.13 ms  
Remote clock offset: 2.532 ms

# Below is generated by plot.py at 2018-03-21 07:56:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 6.92 Mbit/s  
95th percentile per-packet one-way delay: 88.652 ms  
Loss rate: 0.80%  
-- Flow 1:  
Average throughput: 3.71 Mbit/s  
95th percentile per-packet one-way delay: 88.874 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 3.55 Mbit/s  
95th percentile per-packet one-way delay: 88.683 ms  
Loss rate: 1.04%  
-- Flow 3:  
Average throughput: 2.63 Mbit/s  
95th percentile per-packet one-way delay: 85.745 ms  
Loss rate: 3.35%

# Run 8: Report of Sprout — Data Link

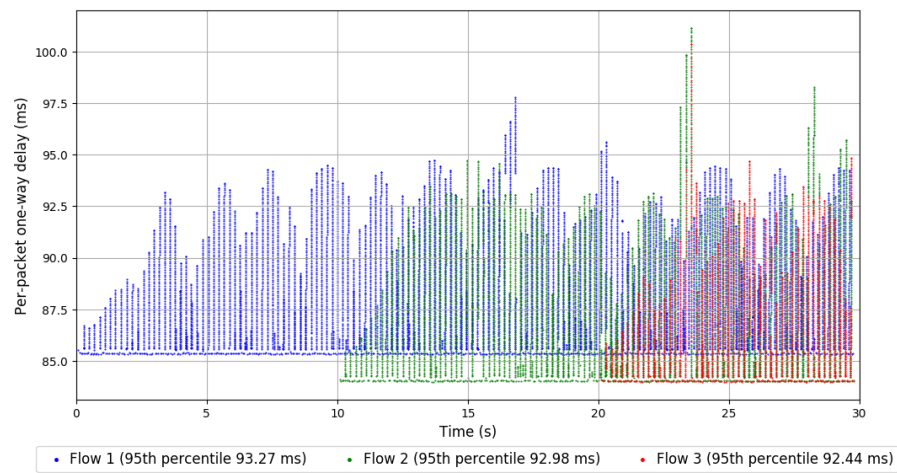
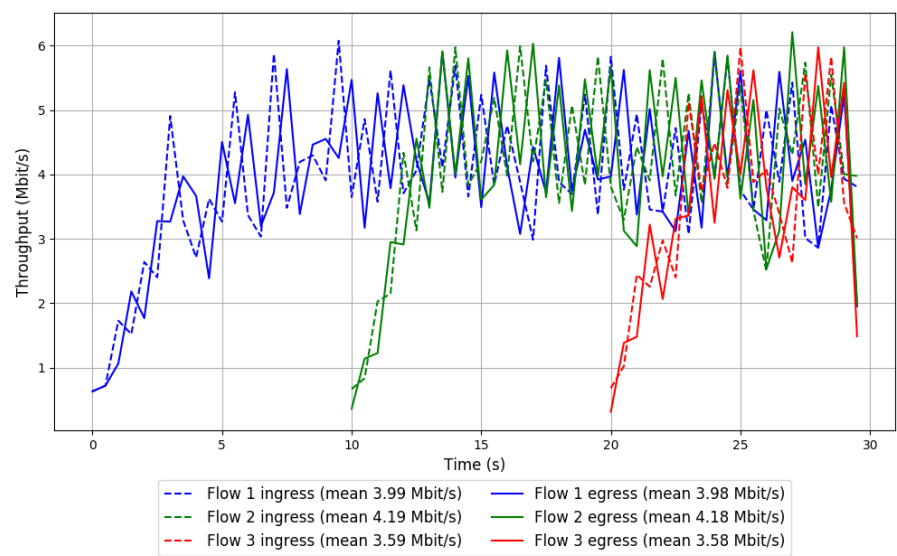


Run 9: Statistics of Sprout

Start at: 2018-03-21 03:04:56  
End at: 2018-03-21 03:05:26  
Local clock offset: -5.592 ms  
Remote clock offset: -2.154 ms

```
# Below is generated by plot.py at 2018-03-21 07:56:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.92 Mbit/s
95th percentile per-packet one-way delay: 93.072 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 3.98 Mbit/s
95th percentile per-packet one-way delay: 93.268 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 4.18 Mbit/s
95th percentile per-packet one-way delay: 92.985 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 3.58 Mbit/s
95th percentile per-packet one-way delay: 92.437 ms
Loss rate: 2.15%
```

Run 9: Report of Sprout — Data Link

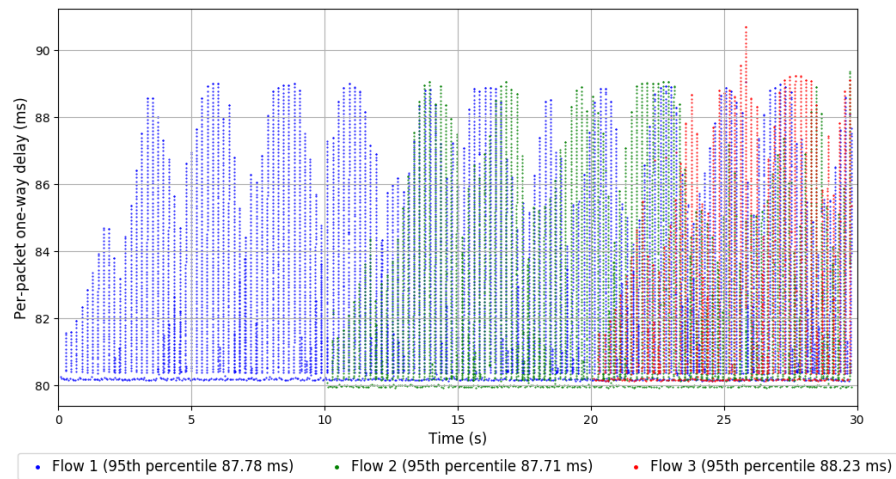
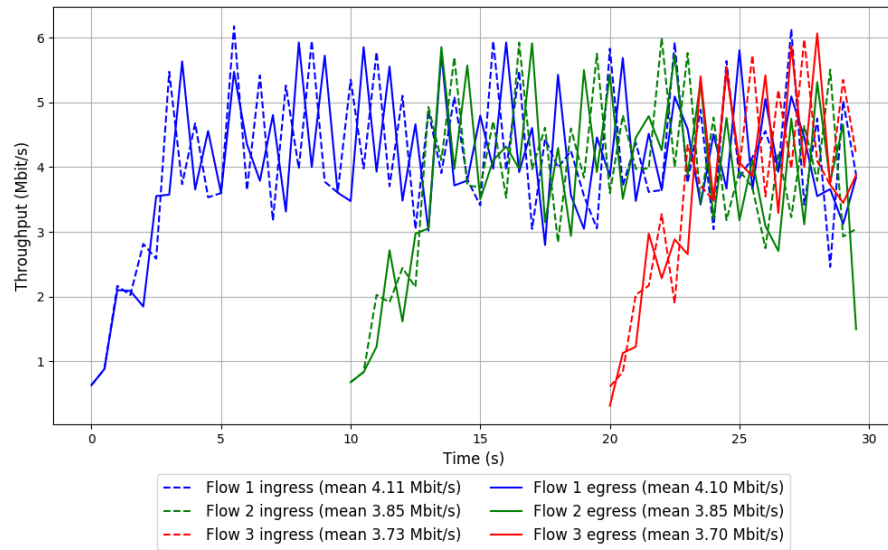


Run 10: Statistics of Sprout

Start at: 2018-03-21 03:28:58  
End at: 2018-03-21 03:29:28  
Local clock offset: -5.648 ms  
Remote clock offset: 0.816 ms

```
# Below is generated by plot.py at 2018-03-21 07:56:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.86 Mbit/s
95th percentile per-packet one-way delay: 87.823 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 4.10 Mbit/s
95th percentile per-packet one-way delay: 87.784 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 3.85 Mbit/s
95th percentile per-packet one-way delay: 87.711 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 3.70 Mbit/s
95th percentile per-packet one-way delay: 88.234 ms
Loss rate: 3.02%
```

# Run 10: Report of Sprout — Data Link



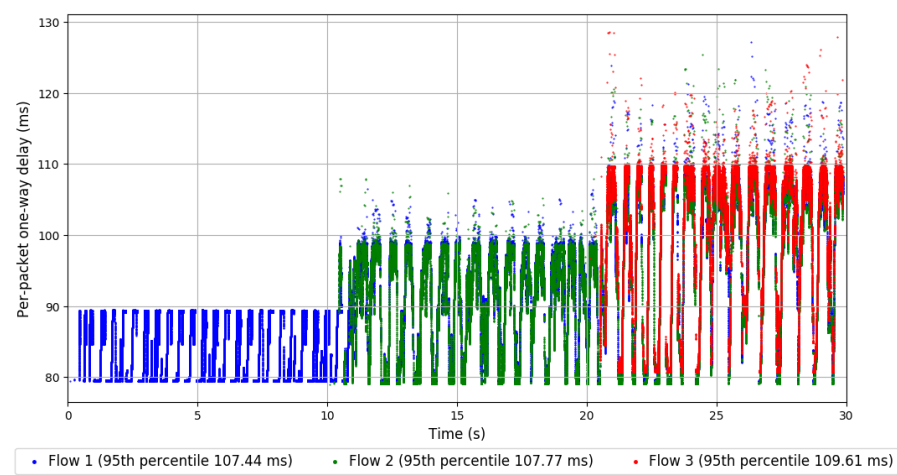
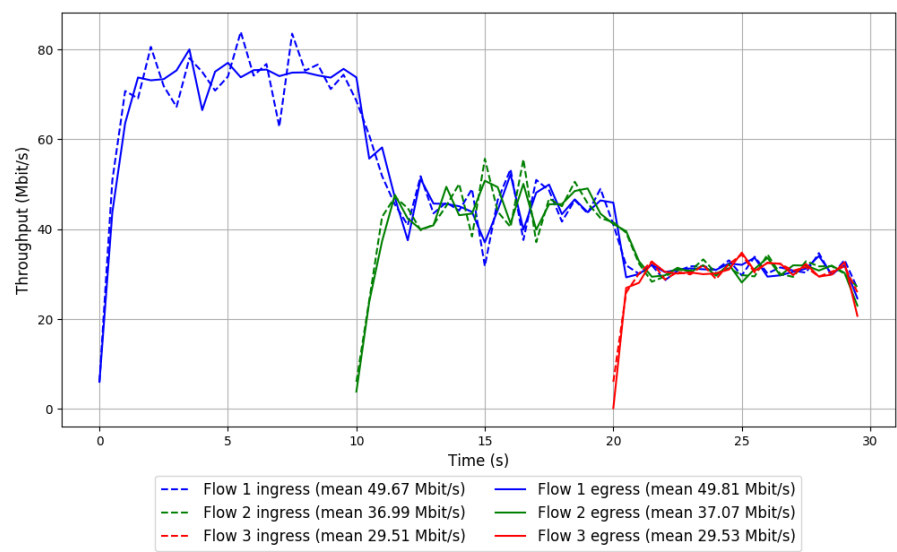
Run 1: Statistics of TaoVA-100x

Start at: 2018-03-20 23:46:44  
End at: 2018-03-20 23:47:14  
Local clock offset: -13.303 ms  
Remote clock offset: 10.051 ms

# Below is generated by plot.py at 2018-03-21 07:58:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.08 Mbit/s  
95th percentile per-packet one-way delay: 108.158 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 49.81 Mbit/s  
95th percentile per-packet one-way delay: 107.435 ms  
Loss rate: 0.35%  
-- Flow 2:  
Average throughput: 37.07 Mbit/s  
95th percentile per-packet one-way delay: 107.768 ms  
Loss rate: 0.70%  
-- Flow 3:  
Average throughput: 29.53 Mbit/s  
95th percentile per-packet one-way delay: 109.609 ms  
Loss rate: 1.97%



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

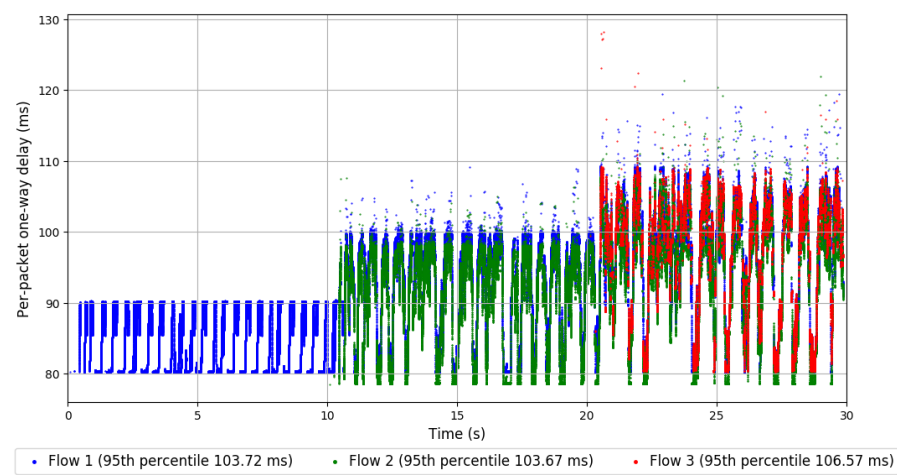
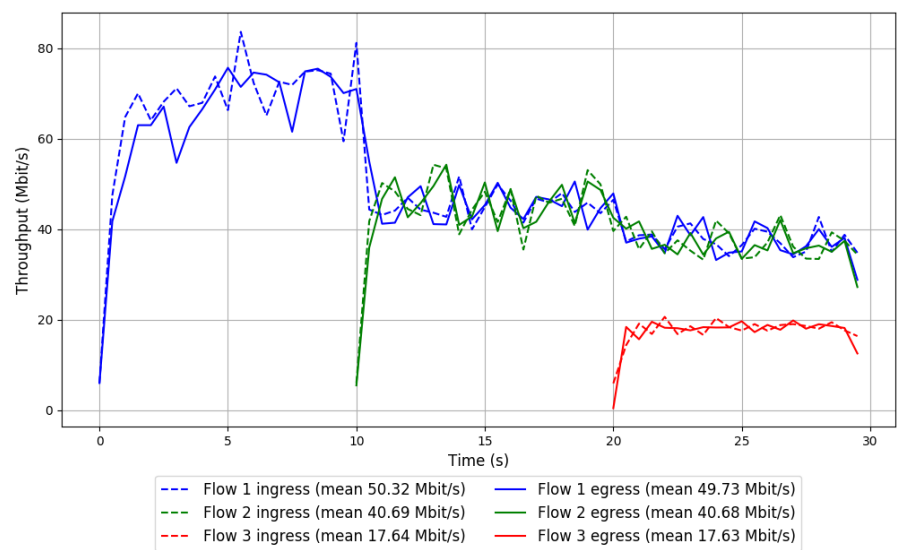


Run 2: Statistics of TaoVA-100x

Start at: 2018-03-21 00:10:44  
End at: 2018-03-21 00:11:14  
Local clock offset: -13.937 ms  
Remote clock offset: 8.035 ms

# Below is generated by plot.py at 2018-03-21 07:58:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.50 Mbit/s  
95th percentile per-packet one-way delay: 104.217 ms  
Loss rate: 1.53%  
-- Flow 1:  
Average throughput: 49.73 Mbit/s  
95th percentile per-packet one-way delay: 103.718 ms  
Loss rate: 1.78%  
-- Flow 2:  
Average throughput: 40.68 Mbit/s  
95th percentile per-packet one-way delay: 103.669 ms  
Loss rate: 0.94%  
-- Flow 3:  
Average throughput: 17.63 Mbit/s  
95th percentile per-packet one-way delay: 106.567 ms  
Loss rate: 2.03%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-03-21 00:34:35

End at: 2018-03-21 00:35:05

Local clock offset: -14.16 ms

Remote clock offset: 2.331 ms

# Below is generated by plot.py at 2018-03-21 07:58:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 72.52 Mbit/s

95th percentile per-packet one-way delay: 106.760 ms

Loss rate: 13.53%

-- Flow 1:

Average throughput: 45.24 Mbit/s

95th percentile per-packet one-way delay: 104.253 ms

Loss rate: 11.79%

-- Flow 2:

Average throughput: 35.12 Mbit/s

95th percentile per-packet one-way delay: 106.655 ms

Loss rate: 17.02%

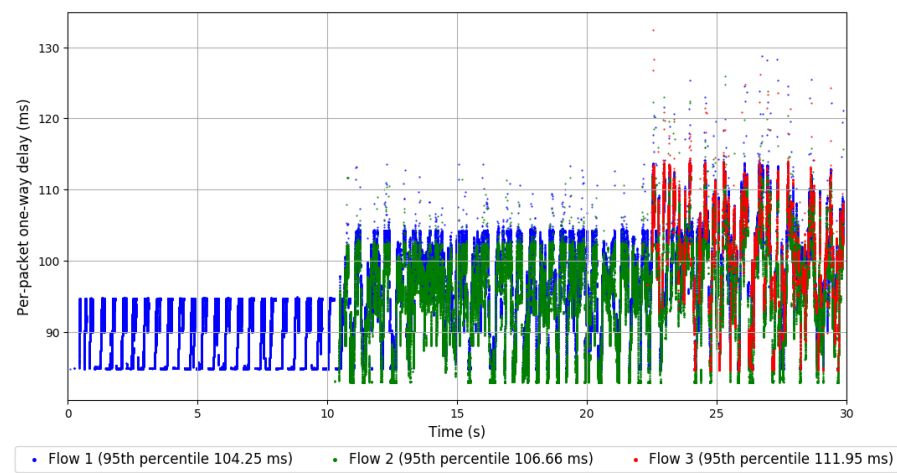
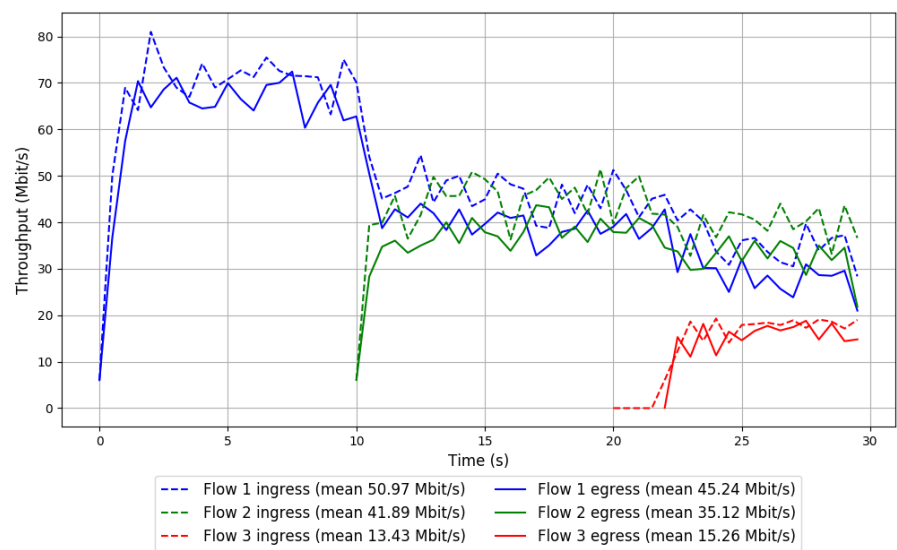
-- Flow 3:

Average throughput: 15.26 Mbit/s

95th percentile per-packet one-way delay: 111.954 ms

Loss rate: 11.49%

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

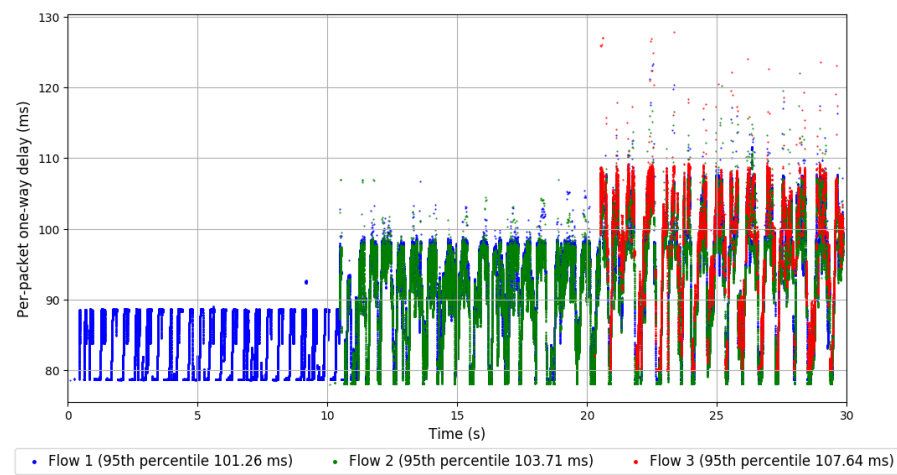
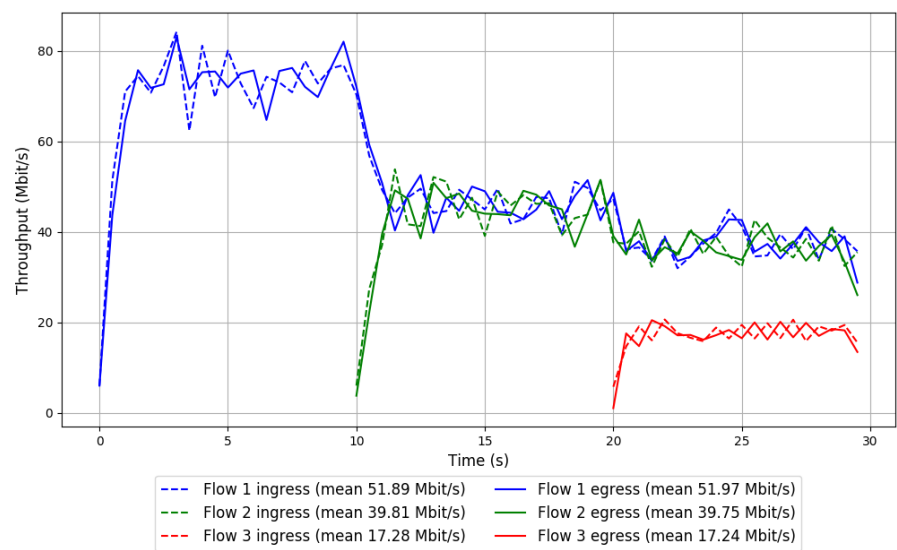


Run 4: Statistics of TaoVA-100x

Start at: 2018-03-21 00:58:36  
End at: 2018-03-21 00:59:06  
Local clock offset: -14.202 ms  
Remote clock offset: 6.313 ms

# Below is generated by plot.py at 2018-03-21 07:58:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.01 Mbit/s  
95th percentile per-packet one-way delay: 103.796 ms  
Loss rate: 0.75%  
-- Flow 1:  
Average throughput: 51.97 Mbit/s  
95th percentile per-packet one-way delay: 101.259 ms  
Loss rate: 0.47%  
-- Flow 2:  
Average throughput: 39.75 Mbit/s  
95th percentile per-packet one-way delay: 103.712 ms  
Loss rate: 1.05%  
-- Flow 3:  
Average throughput: 17.24 Mbit/s  
95th percentile per-packet one-way delay: 107.640 ms  
Loss rate: 1.99%

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



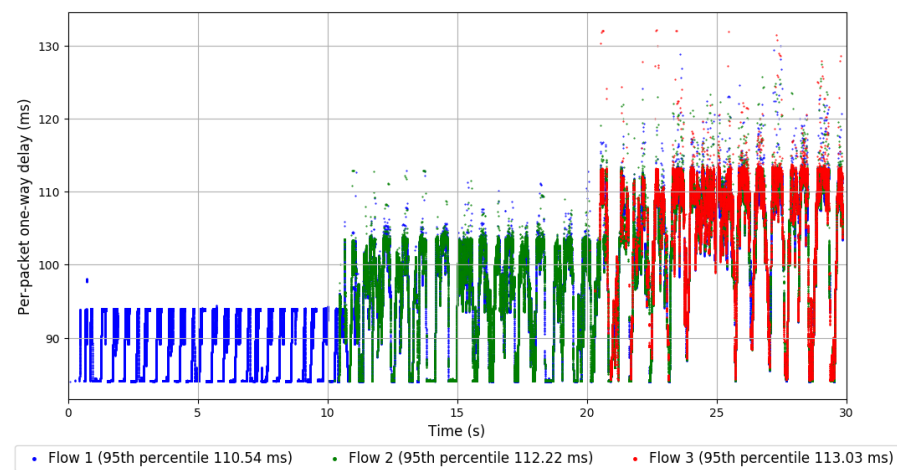
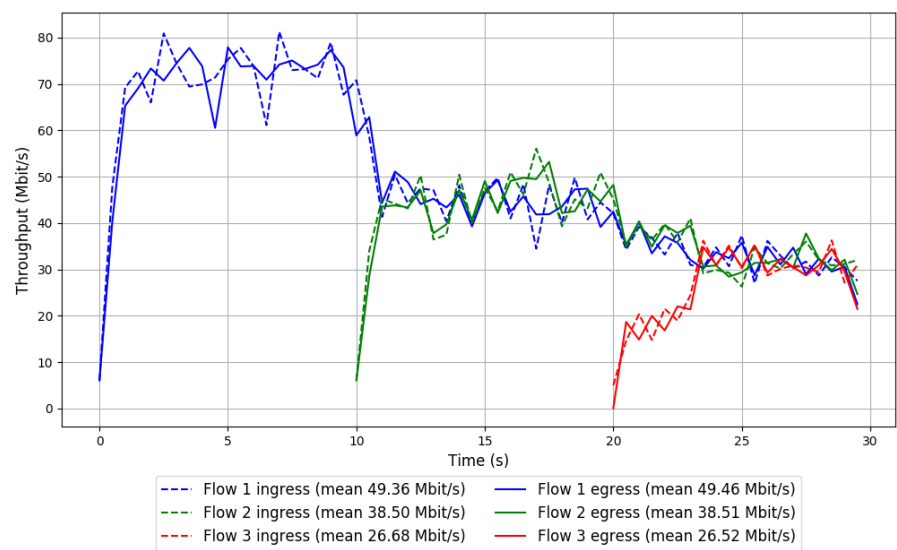
Run 5: Statistics of TaoVA-100x

Start at: 2018-03-21 01:22:30  
End at: 2018-03-21 01:23:00  
Local clock offset: -14.258 ms  
Remote clock offset: 1.579 ms

# Below is generated by plot.py at 2018-03-21 07:58:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.71 Mbit/s  
95th percentile per-packet one-way delay: 112.157 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 49.46 Mbit/s  
95th percentile per-packet one-way delay: 110.537 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 38.51 Mbit/s  
95th percentile per-packet one-way delay: 112.222 ms  
Loss rate: 0.88%  
-- Flow 3:  
Average throughput: 26.52 Mbit/s  
95th percentile per-packet one-way delay: 113.034 ms  
Loss rate: 2.65%



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



Run 6: Statistics of TaoVA-100x

Start at: 2018-03-21 01:46:24

End at: 2018-03-21 01:46:54

Local clock offset: -8.155 ms

Remote clock offset: 0.739 ms

# Below is generated by plot.py at 2018-03-21 07:58:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 70.97 Mbit/s

95th percentile per-packet one-way delay: 104.513 ms

Loss rate: 14.32%

-- Flow 1:

Average throughput: 41.01 Mbit/s

95th percentile per-packet one-way delay: 103.072 ms

Loss rate: 12.45%

-- Flow 2:

Average throughput: 38.15 Mbit/s

95th percentile per-packet one-way delay: 104.444 ms

Loss rate: 16.65%

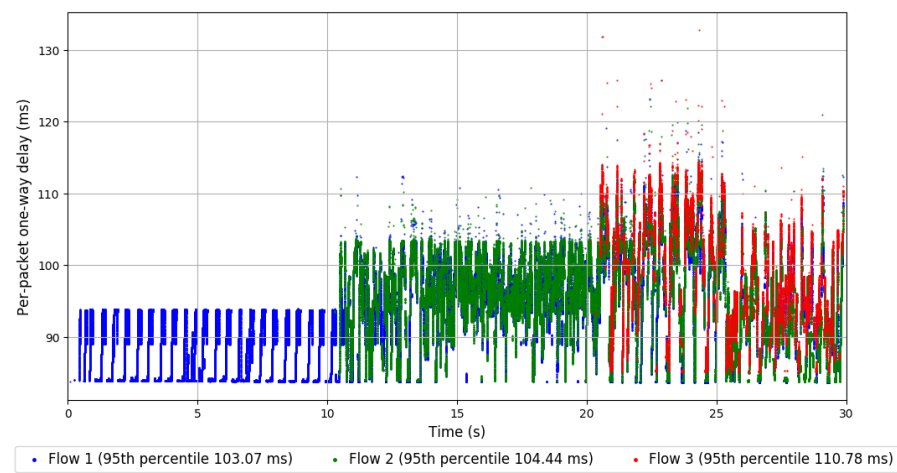
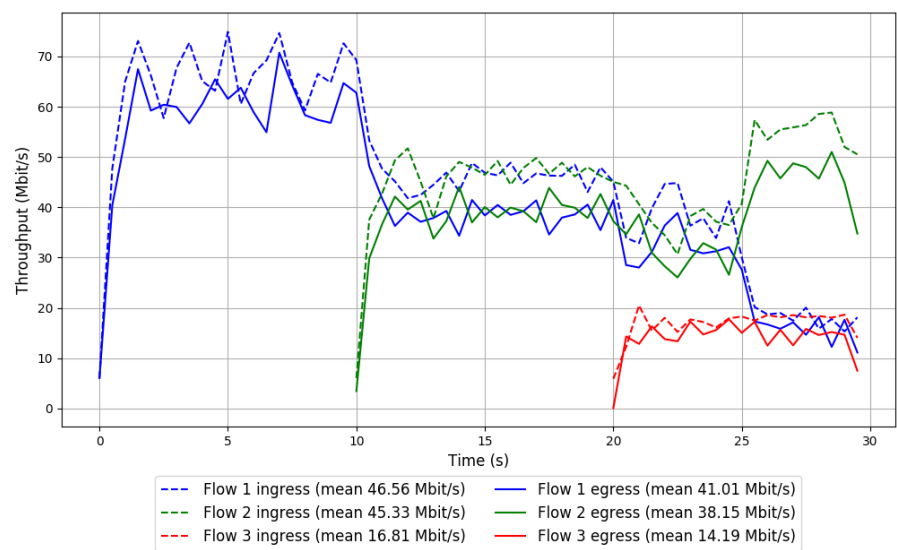
-- Flow 3:

Average throughput: 14.19 Mbit/s

95th percentile per-packet one-way delay: 110.777 ms

Loss rate: 17.29%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-03-21 02:10:22

End at: 2018-03-21 02:10:52

Local clock offset: -1.875 ms

Remote clock offset: 3.765 ms

# Below is generated by plot.py at 2018-03-21 07:58:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.16 Mbit/s

95th percentile per-packet one-way delay: 108.732 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 49.94 Mbit/s

95th percentile per-packet one-way delay: 106.731 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 38.76 Mbit/s

95th percentile per-packet one-way delay: 109.255 ms

Loss rate: 0.83%

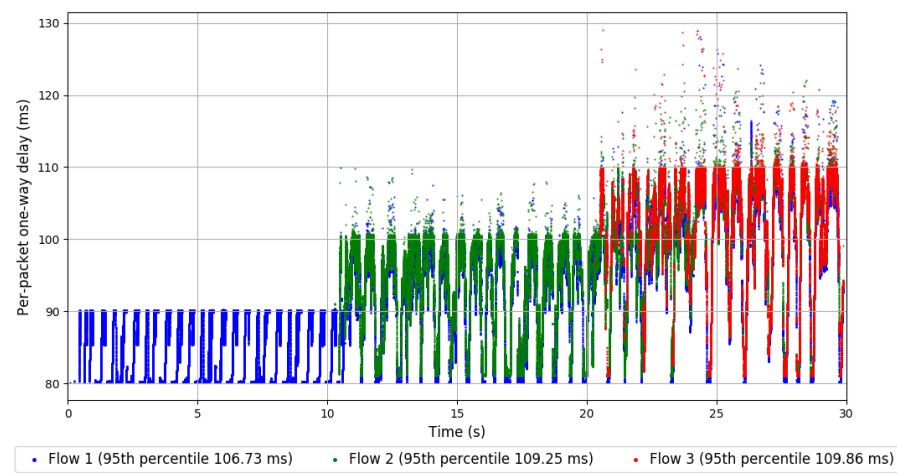
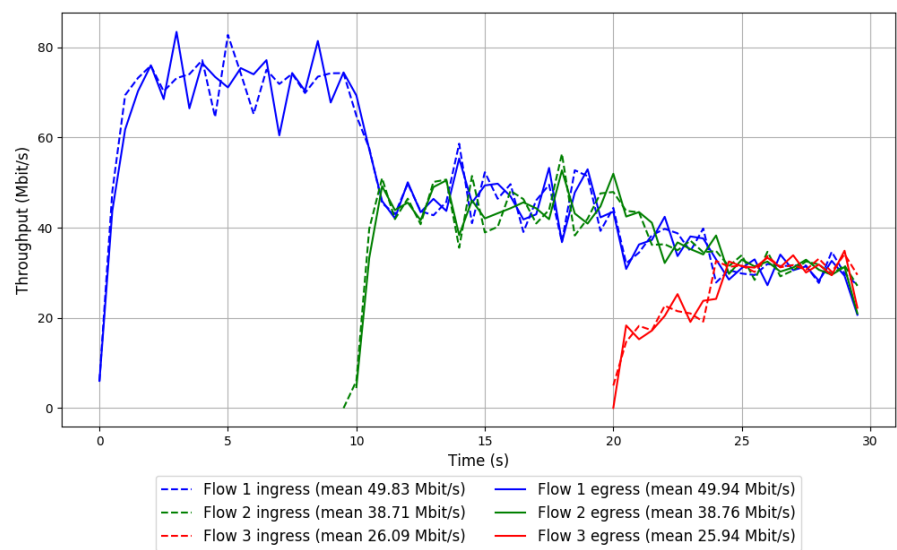
-- Flow 3:

Average throughput: 25.94 Mbit/s

95th percentile per-packet one-way delay: 109.859 ms

Loss rate: 2.67%

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

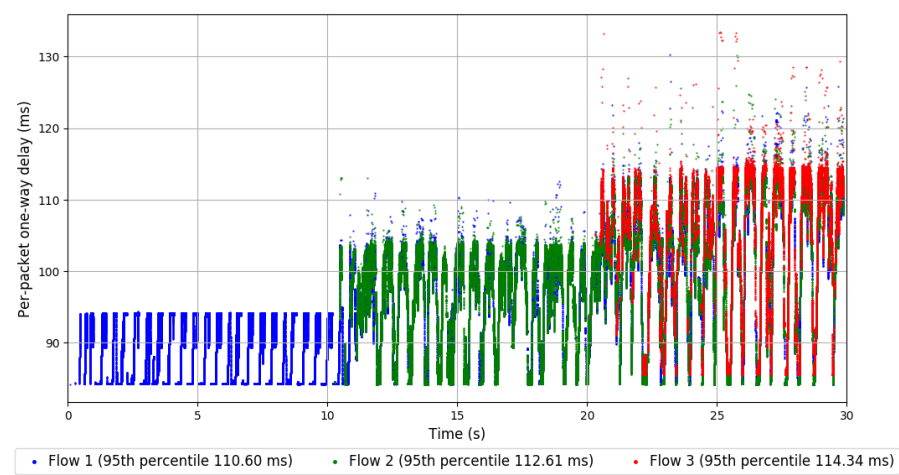
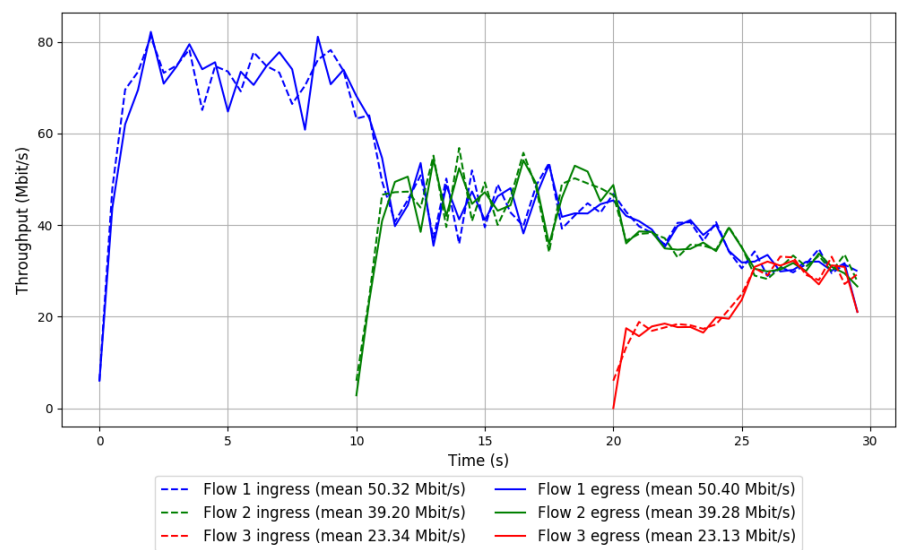


Run 8: Statistics of TaoVA-100x

Start at: 2018-03-21 02:34:15  
End at: 2018-03-21 02:34:45  
Local clock offset: -4.42 ms  
Remote clock offset: -1.016 ms

# Below is generated by plot.py at 2018-03-21 07:58:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.04 Mbit/s  
95th percentile per-packet one-way delay: 112.718 ms  
Loss rate: 0.78%  
-- Flow 1:  
Average throughput: 50.40 Mbit/s  
95th percentile per-packet one-way delay: 110.599 ms  
Loss rate: 0.49%  
-- Flow 2:  
Average throughput: 39.28 Mbit/s  
95th percentile per-packet one-way delay: 112.609 ms  
Loss rate: 0.73%  
-- Flow 3:  
Average throughput: 23.13 Mbit/s  
95th percentile per-packet one-way delay: 114.340 ms  
Loss rate: 2.80%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-03-21 02:58:12

End at: 2018-03-21 02:58:42

Local clock offset: -5.339 ms

Remote clock offset: 2.001 ms

# Below is generated by plot.py at 2018-03-21 08:00:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 83.59 Mbit/s

95th percentile per-packet one-way delay: 108.191 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 50.17 Mbit/s

95th percentile per-packet one-way delay: 105.979 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 39.44 Mbit/s

95th percentile per-packet one-way delay: 109.303 ms

Loss rate: 0.79%

-- Flow 3:

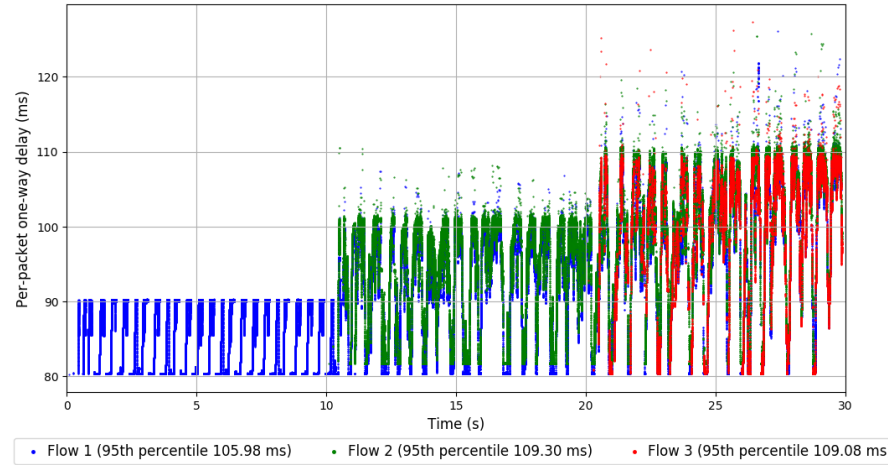
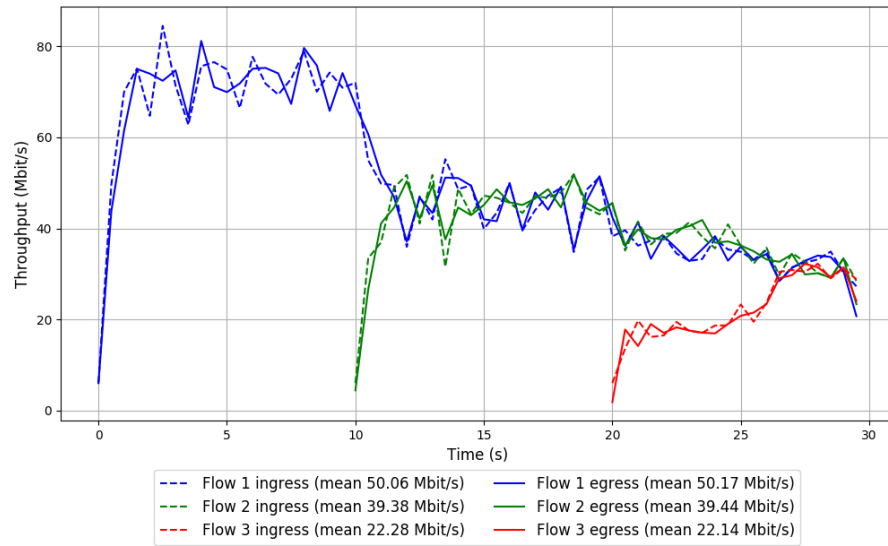
Average throughput: 22.14 Mbit/s

95th percentile per-packet one-way delay: 109.079 ms

Loss rate: 2.55%



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



Run 10: Statistics of TaoVA-100x

Start at: 2018-03-21 03:22:13

End at: 2018-03-21 03:22:43

Local clock offset: -5.454 ms

Remote clock offset: 1.039 ms

# Below is generated by plot.py at 2018-03-21 08:00:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 83.34 Mbit/s

95th percentile per-packet one-way delay: 105.299 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 50.47 Mbit/s

95th percentile per-packet one-way delay: 103.805 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 40.88 Mbit/s

95th percentile per-packet one-way delay: 105.559 ms

Loss rate: 0.62%

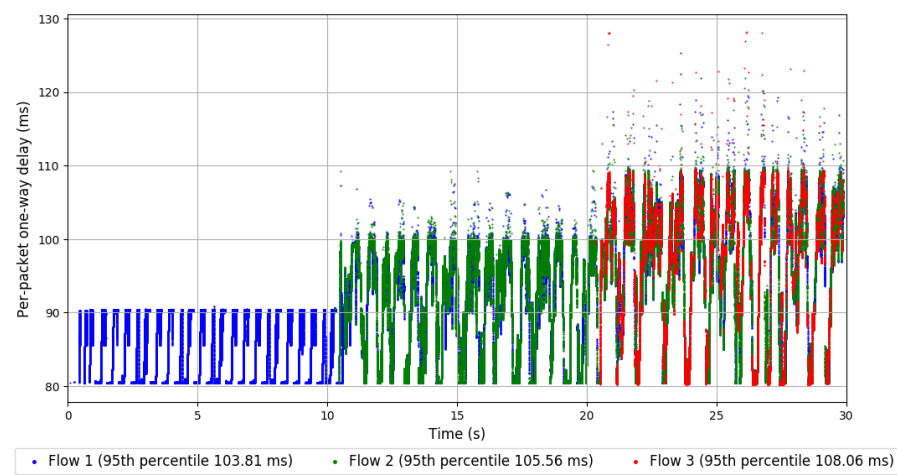
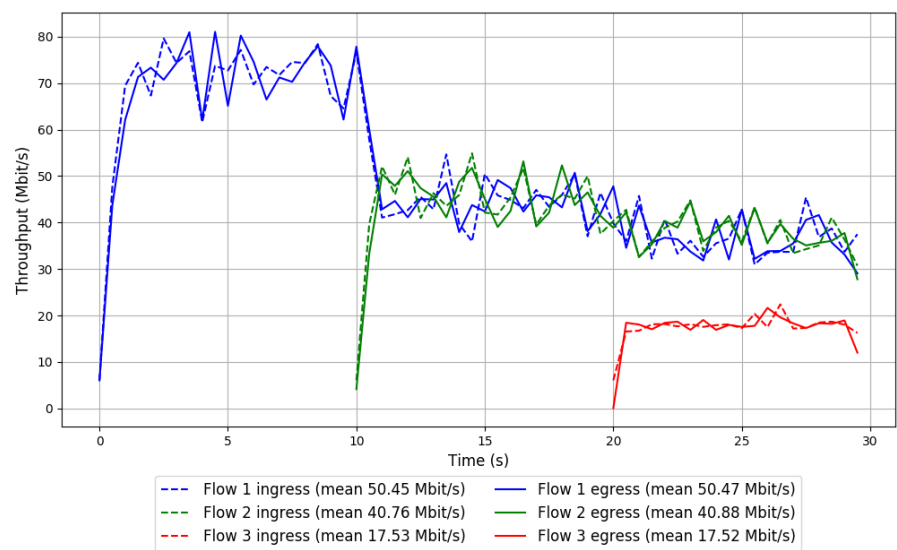
-- Flow 3:

Average throughput: 17.52 Mbit/s

95th percentile per-packet one-way delay: 108.064 ms

Loss rate: 2.11%

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

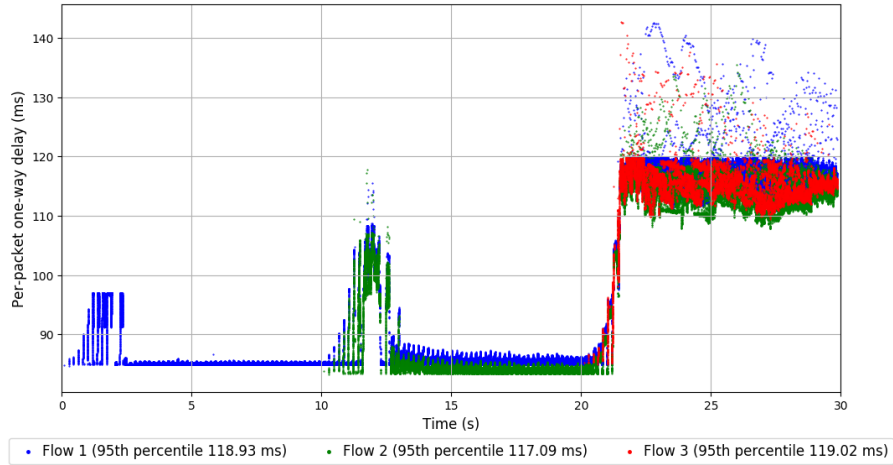
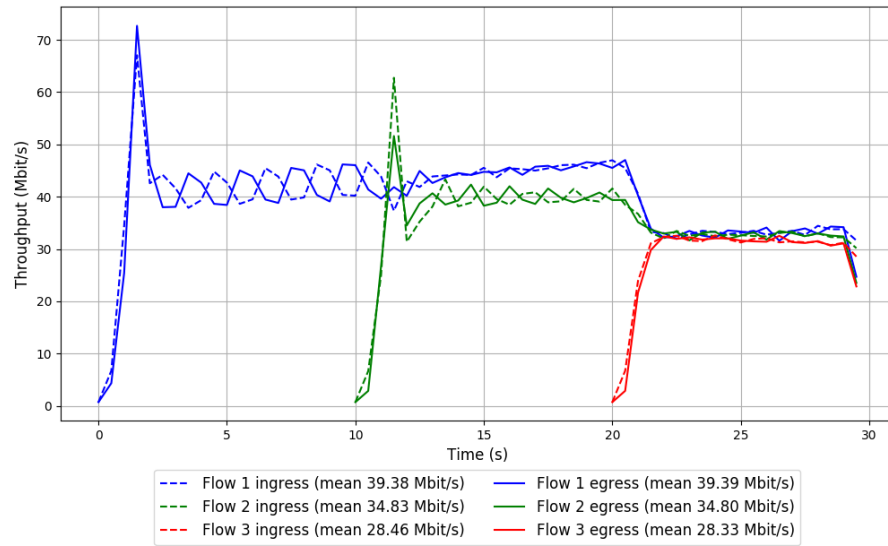


Run 1: Statistics of TCP Vegas

Start at: 2018-03-21 00:05:29  
End at: 2018-03-21 00:05:59  
Local clock offset: -13.788 ms  
Remote clock offset: 3.297 ms

# Below is generated by plot.py at 2018-03-21 08:00:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 71.76 Mbit/s  
95th percentile per-packet one-way delay: 118.603 ms  
Loss rate: 0.96%  
-- Flow 1:  
Average throughput: 39.39 Mbit/s  
95th percentile per-packet one-way delay: 118.933 ms  
Loss rate: 0.62%  
-- Flow 2:  
Average throughput: 34.80 Mbit/s  
95th percentile per-packet one-way delay: 117.095 ms  
Loss rate: 0.98%  
-- Flow 3:  
Average throughput: 28.33 Mbit/s  
95th percentile per-packet one-way delay: 119.022 ms  
Loss rate: 2.29%

# Run 1: Report of TCP Vegas — Data Link

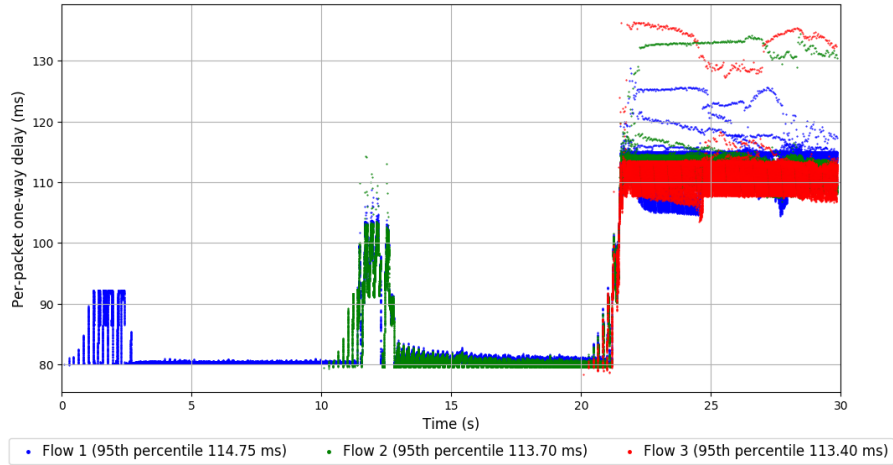
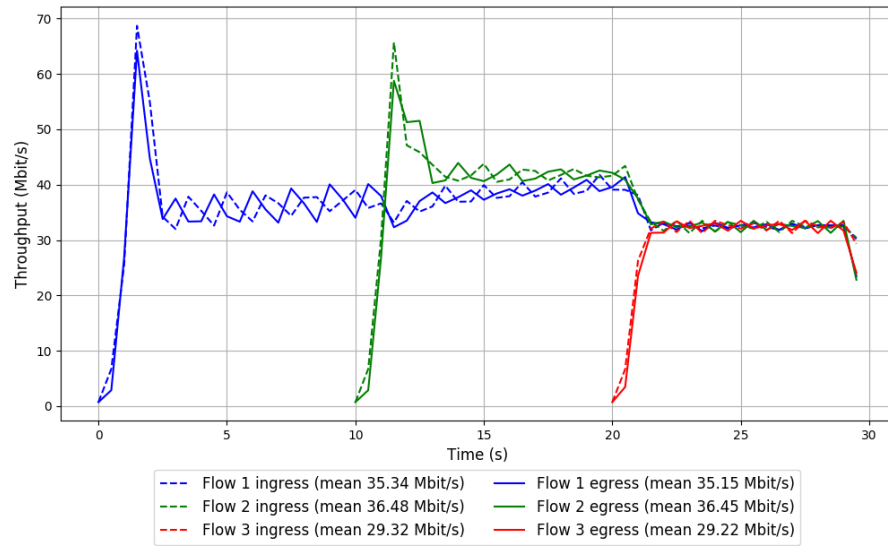


Run 2: Statistics of TCP Vegas

Start at: 2018-03-21 00:29:20  
End at: 2018-03-21 00:29:50  
Local clock offset: -14.194 ms  
Remote clock offset: 7.326 ms

# Below is generated by plot.py at 2018-03-21 08:00:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.91 Mbit/s  
95th percentile per-packet one-way delay: 114.302 ms  
Loss rate: 1.26%  
-- Flow 1:  
Average throughput: 35.15 Mbit/s  
95th percentile per-packet one-way delay: 114.755 ms  
Loss rate: 1.15%  
-- Flow 2:  
Average throughput: 36.45 Mbit/s  
95th percentile per-packet one-way delay: 113.700 ms  
Loss rate: 0.98%  
-- Flow 3:  
Average throughput: 29.22 Mbit/s  
95th percentile per-packet one-way delay: 113.404 ms  
Loss rate: 2.30%

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



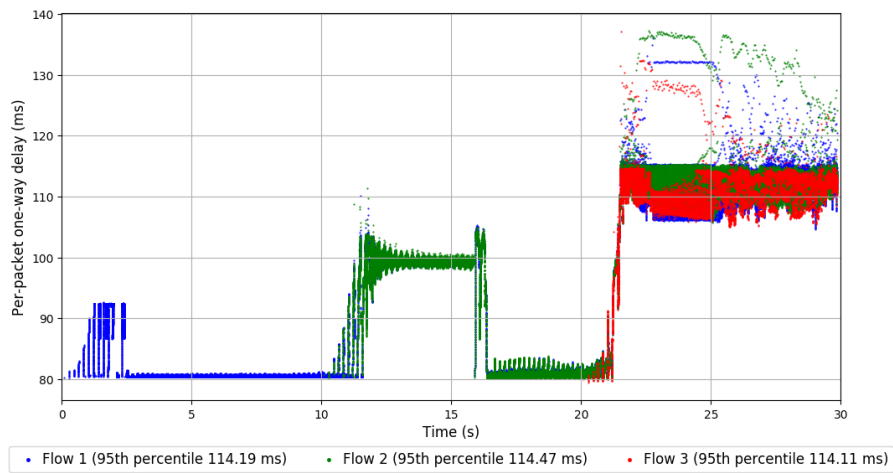
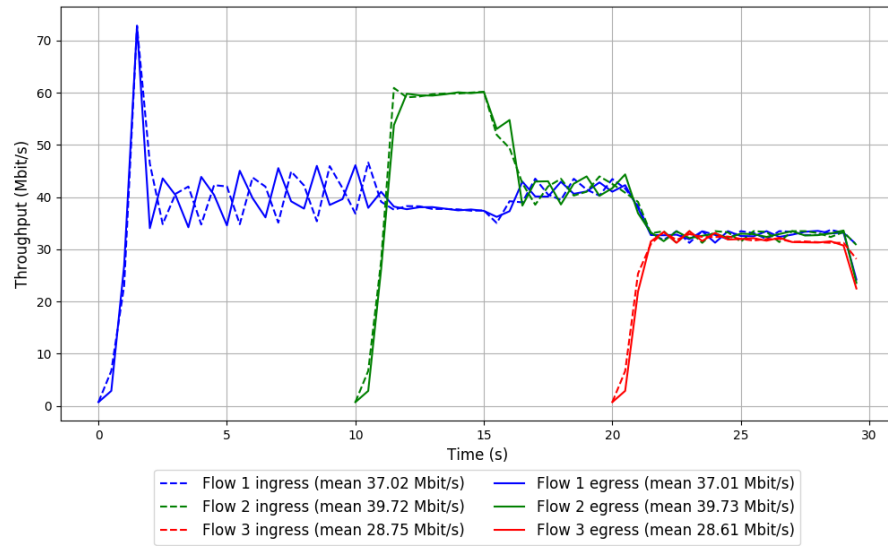
Run 3: Statistics of TCP Vegas

Start at: 2018-03-21 00:53:20  
End at: 2018-03-21 00:53:50  
Local clock offset: -14.183 ms  
Remote clock offset: 6.414 ms

# Below is generated by plot.py at 2018-03-21 08:00:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 72.74 Mbit/s  
95th percentile per-packet one-way delay: 114.299 ms  
Loss rate: 0.95%  
-- Flow 1:  
Average throughput: 37.01 Mbit/s  
95th percentile per-packet one-way delay: 114.185 ms  
Loss rate: 0.65%  
-- Flow 2:  
Average throughput: 39.73 Mbit/s  
95th percentile per-packet one-way delay: 114.467 ms  
Loss rate: 0.90%  
-- Flow 3:  
Average throughput: 28.61 Mbit/s  
95th percentile per-packet one-way delay: 114.108 ms  
Loss rate: 2.30%



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

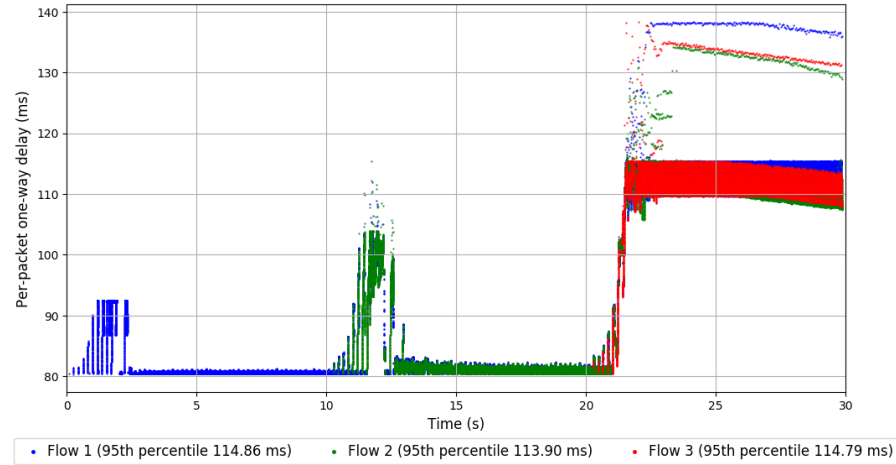
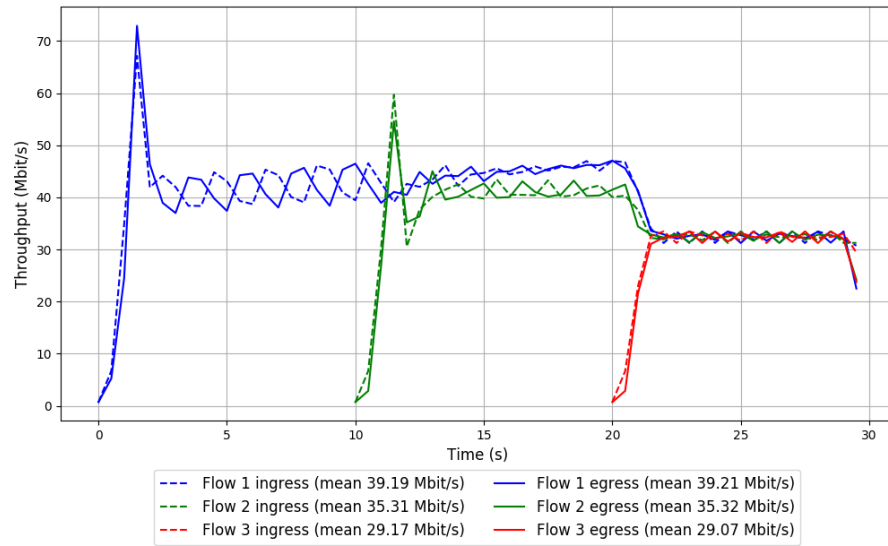


Run 4: Statistics of TCP Vegas

Start at: 2018-03-21 01:17:15  
End at: 2018-03-21 01:17:45  
Local clock offset: -14.248 ms  
Remote clock offset: 5.548 ms

# Below is generated by plot.py at 2018-03-21 08:00:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 72.19 Mbit/s  
95th percentile per-packet one-way delay: 114.652 ms  
Loss rate: 0.97%  
-- Flow 1:  
Average throughput: 39.21 Mbit/s  
95th percentile per-packet one-way delay: 114.857 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 35.32 Mbit/s  
95th percentile per-packet one-way delay: 113.902 ms  
Loss rate: 0.98%  
-- Flow 3:  
Average throughput: 29.07 Mbit/s  
95th percentile per-packet one-way delay: 114.788 ms  
Loss rate: 2.31%

# Run 4: Report of TCP Vegas — Data Link

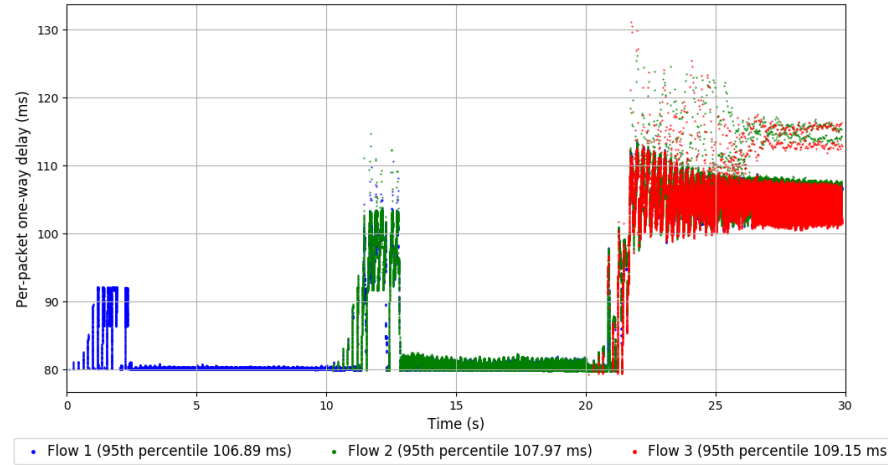
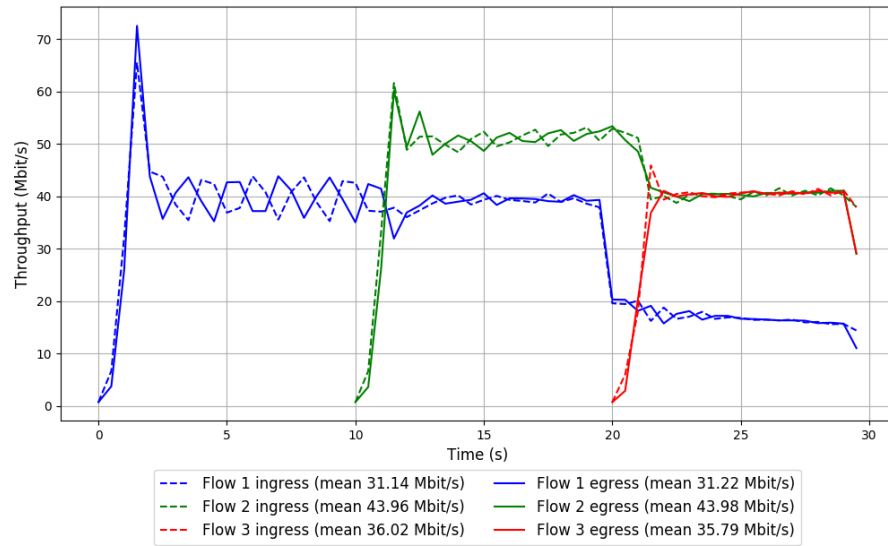


Run 5: Statistics of TCP Vegas

Start at: 2018-03-21 01:41:09  
End at: 2018-03-21 01:41:39  
Local clock offset: -11.561 ms  
Remote clock offset: 4.774 ms

# Below is generated by plot.py at 2018-03-21 08:00:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 72.14 Mbit/s  
95th percentile per-packet one-way delay: 107.766 ms  
Loss rate: 0.95%  
-- Flow 1:  
Average throughput: 31.22 Mbit/s  
95th percentile per-packet one-way delay: 106.894 ms  
Loss rate: 0.35%  
-- Flow 2:  
Average throughput: 43.98 Mbit/s  
95th percentile per-packet one-way delay: 107.965 ms  
Loss rate: 0.97%  
-- Flow 3:  
Average throughput: 35.79 Mbit/s  
95th percentile per-packet one-way delay: 109.147 ms  
Loss rate: 2.45%

# Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-03-21 02:05:09

End at: 2018-03-21 02:05:39

Local clock offset: -2.782 ms

Remote clock offset: 3.851 ms

# Below is generated by plot.py at 2018-03-21 08:00:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 38.64 Mbit/s

95th percentile per-packet one-way delay: 92.140 ms

Loss rate: 1.60%

-- Flow 1:

Average throughput: 16.66 Mbit/s

95th percentile per-packet one-way delay: 92.077 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 27.65 Mbit/s

95th percentile per-packet one-way delay: 93.410 ms

Loss rate: 1.89%

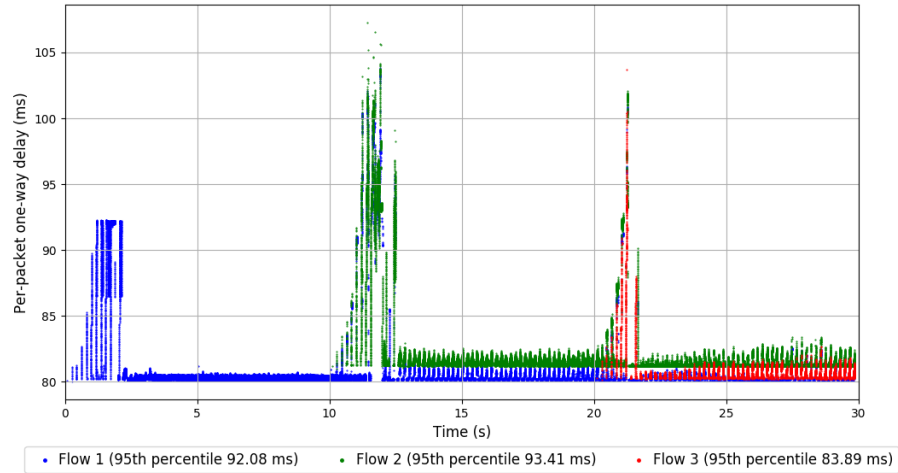
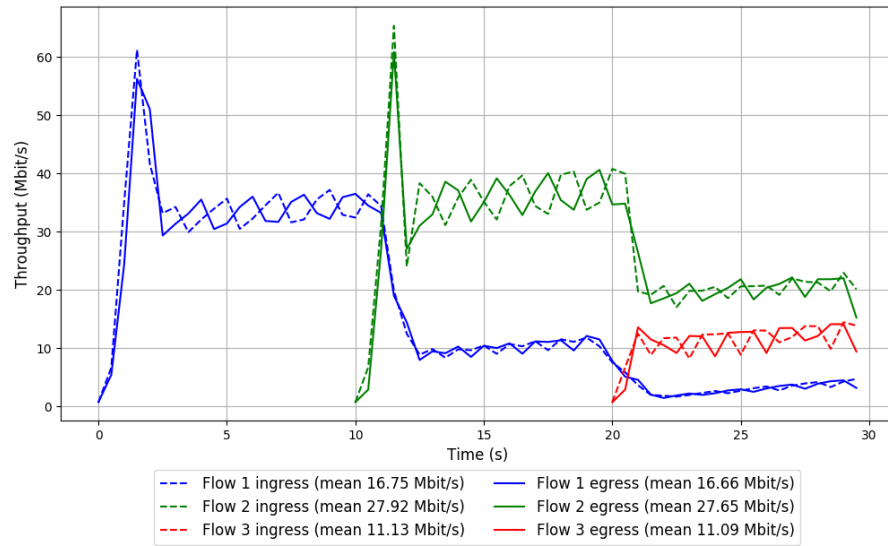
-- Flow 3:

Average throughput: 11.09 Mbit/s

95th percentile per-packet one-way delay: 83.895 ms

Loss rate: 2.23%

# Run 6: Report of TCP Vegas — Data Link



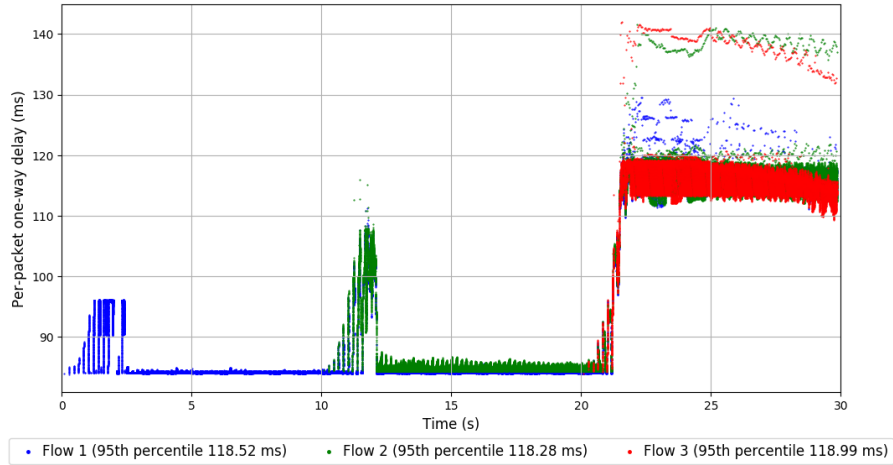
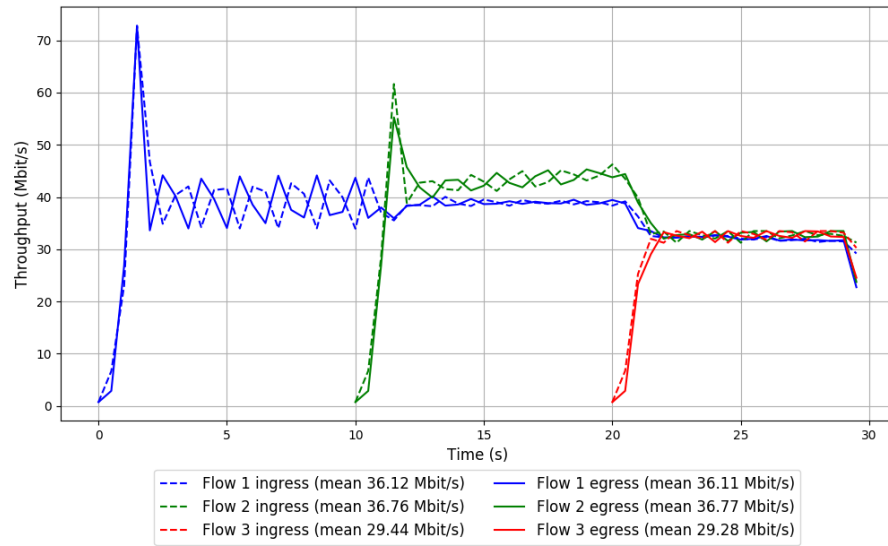
Run 7: Statistics of TCP Vegas

Start at: 2018-03-21 02:29:02  
End at: 2018-03-21 02:29:32  
Local clock offset: -4.483 ms  
Remote clock offset: -0.973 ms

# Below is generated by plot.py at 2018-03-21 08:00:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 70.11 Mbit/s  
95th percentile per-packet one-way delay: 118.623 ms  
Loss rate: 1.00%  
-- Flow 1:  
Average throughput: 36.11 Mbit/s  
95th percentile per-packet one-way delay: 118.516 ms  
Loss rate: 0.62%  
-- Flow 2:  
Average throughput: 36.77 Mbit/s  
95th percentile per-packet one-way delay: 118.275 ms  
Loss rate: 0.97%  
-- Flow 3:  
Average throughput: 29.28 Mbit/s  
95th percentile per-packet one-way delay: 118.990 ms  
Loss rate: 2.45%



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



Run 8: Statistics of TCP Vegas

Start at: 2018-03-21 02:52:52

End at: 2018-03-21 02:53:22

Local clock offset: -4.924 ms

Remote clock offset: 2.054 ms

# Below is generated by plot.py at 2018-03-21 08:00:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 74.33 Mbit/s

95th percentile per-packet one-way delay: 98.407 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 41.48 Mbit/s

95th percentile per-packet one-way delay: 98.479 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 45.50 Mbit/s

95th percentile per-packet one-way delay: 98.227 ms

Loss rate: 0.96%

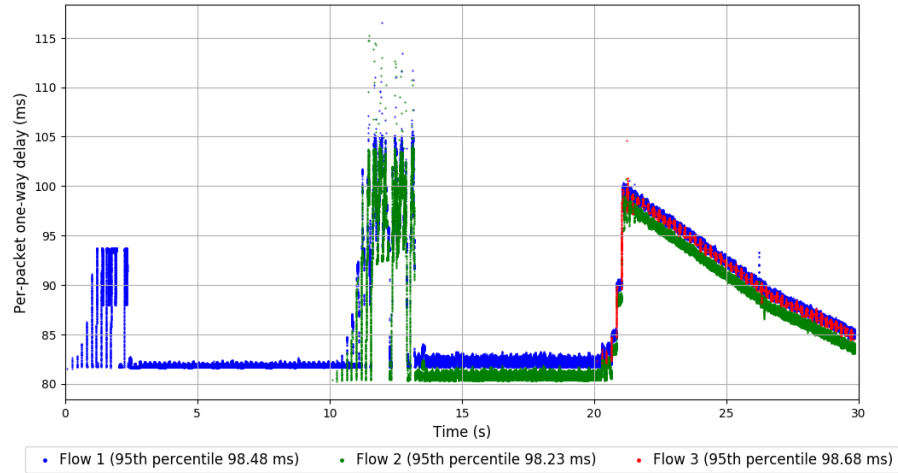
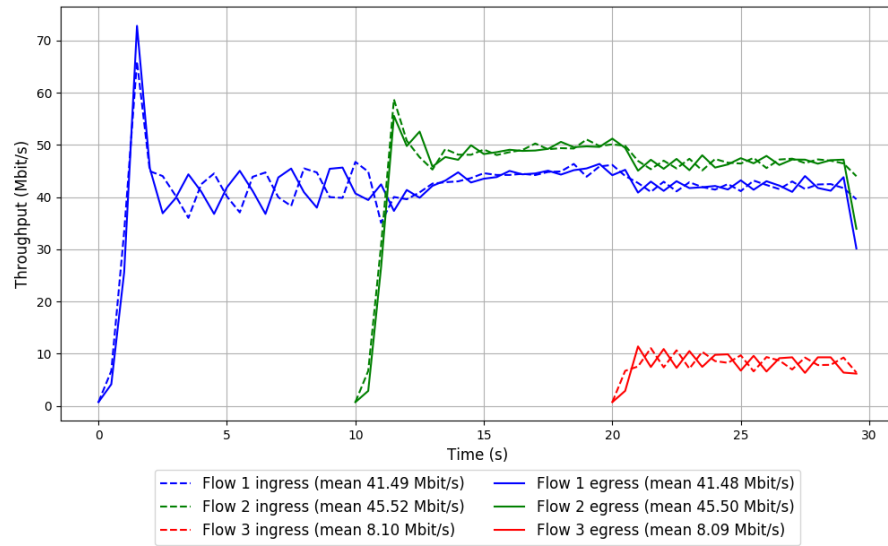
-- Flow 3:

Average throughput: 8.09 Mbit/s

95th percentile per-packet one-way delay: 98.678 ms

Loss rate: 1.97%

# Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-03-21 03:16:57

End at: 2018-03-21 03:17:27

Local clock offset: -5.478 ms

Remote clock offset: 1.263 ms

# Below is generated by plot.py at 2018-03-21 08:00:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 75.24 Mbit/s

95th percentile per-packet one-way delay: 114.682 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 36.32 Mbit/s

95th percentile per-packet one-way delay: 113.209 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 44.41 Mbit/s

95th percentile per-packet one-way delay: 113.919 ms

Loss rate: 0.76%

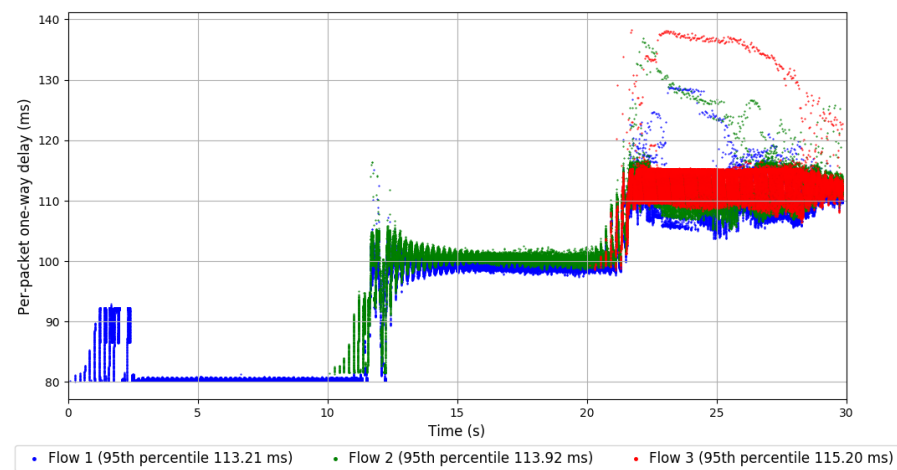
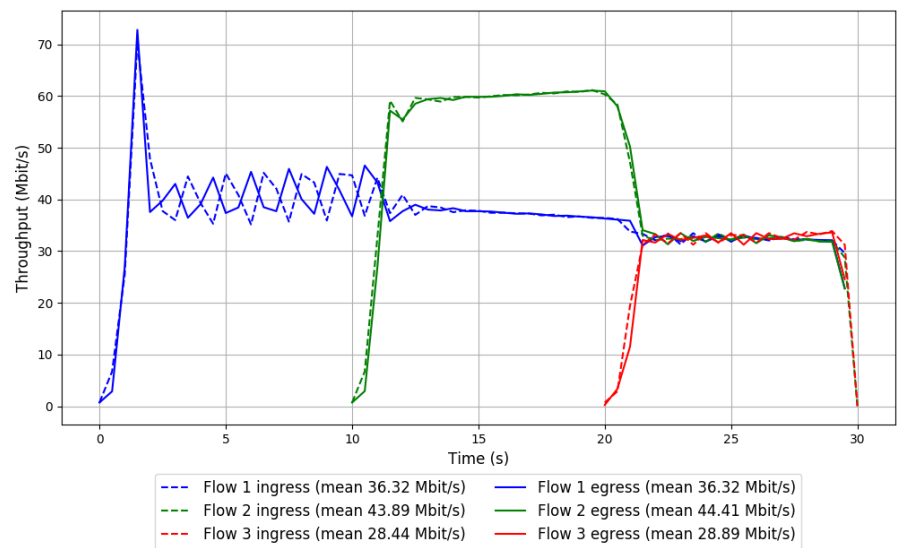
-- Flow 3:

Average throughput: 28.89 Mbit/s

95th percentile per-packet one-way delay: 115.198 ms

Loss rate: 2.50%

Run 9: Report of TCP Vegas — Data Link

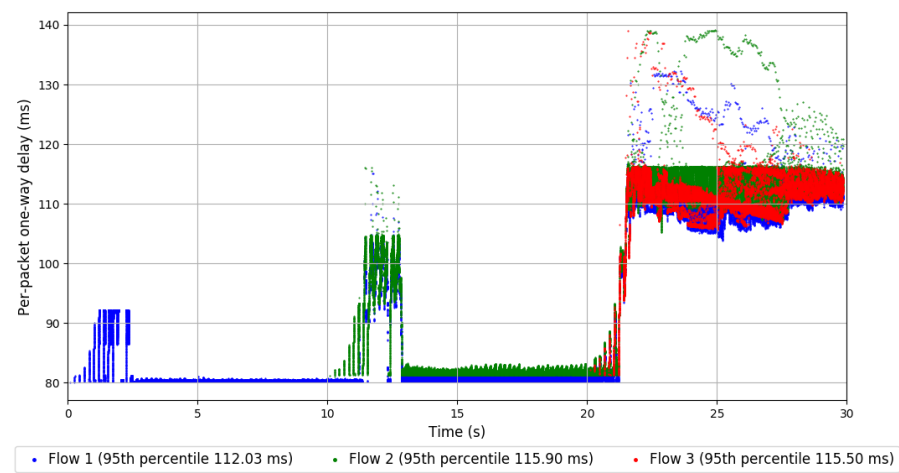
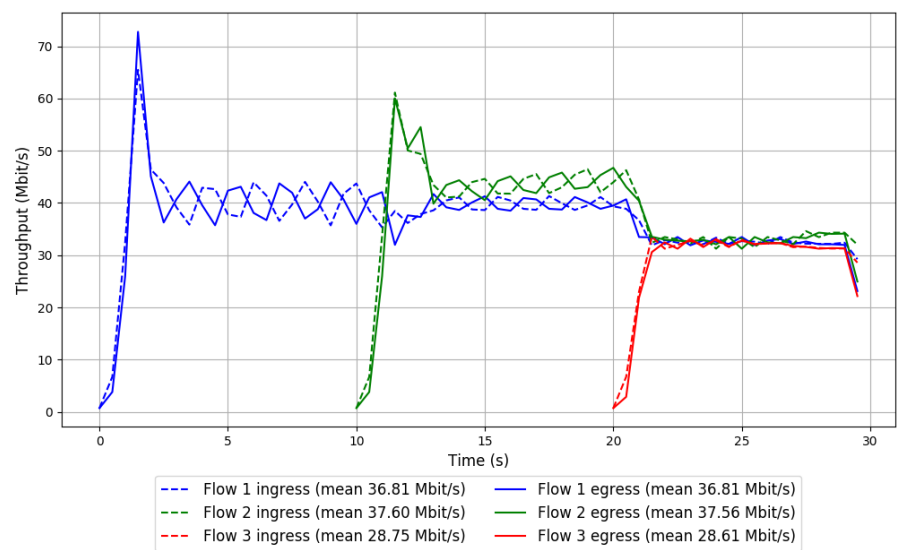


Run 10: Statistics of TCP Vegas

Start at: 2018-03-21 03:40:51  
End at: 2018-03-21 03:41:21  
Local clock offset: -5.602 ms  
Remote clock offset: 0.323 ms

```
# Below is generated by plot.py at 2018-03-21 08:00:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.11 Mbit/s
95th percentile per-packet one-way delay: 115.122 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 36.81 Mbit/s
95th percentile per-packet one-way delay: 112.032 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 37.56 Mbit/s
95th percentile per-packet one-way delay: 115.896 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 28.61 Mbit/s
95th percentile per-packet one-way delay: 115.504 ms
Loss rate: 2.34%
```

Run 10: Report of TCP Vegas — Data Link



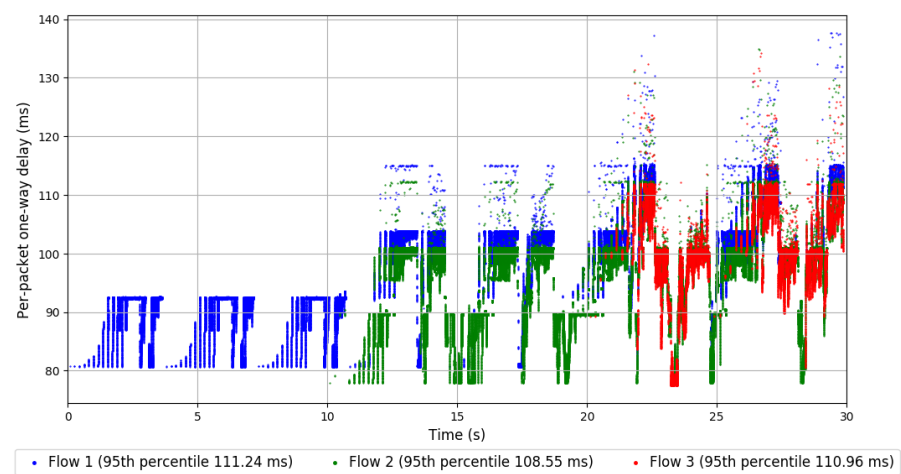
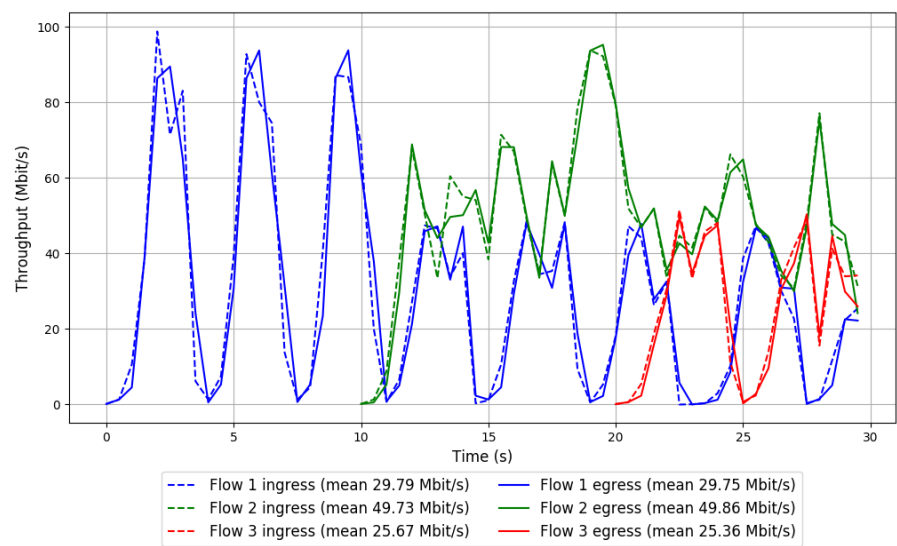
Run 1: Statistics of Verus

Start at: 2018-03-21 00:04:09  
End at: 2018-03-21 00:04:39  
Local clock offset: -13.744 ms  
Remote clock offset: 9.021 ms

# Below is generated by plot.py at 2018-03-21 08:00:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 71.16 Mbit/s  
95th percentile per-packet one-way delay: 110.187 ms  
Loss rate: 0.93%  
-- Flow 1:  
Average throughput: 29.75 Mbit/s  
95th percentile per-packet one-way delay: 111.241 ms  
Loss rate: 0.54%  
-- Flow 2:  
Average throughput: 49.86 Mbit/s  
95th percentile per-packet one-way delay: 108.549 ms  
Loss rate: 0.72%  
-- Flow 3:  
Average throughput: 25.36 Mbit/s  
95th percentile per-packet one-way delay: 110.963 ms  
Loss rate: 3.13%



Run 1: Report of Verus — Data Link

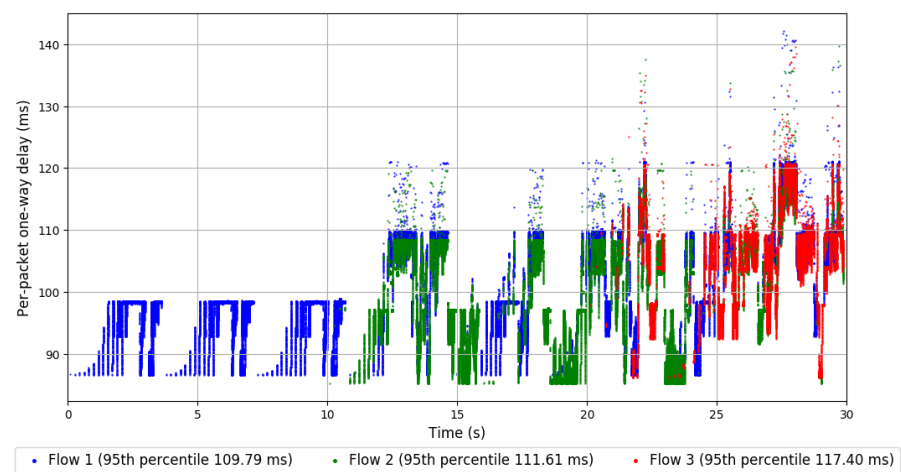
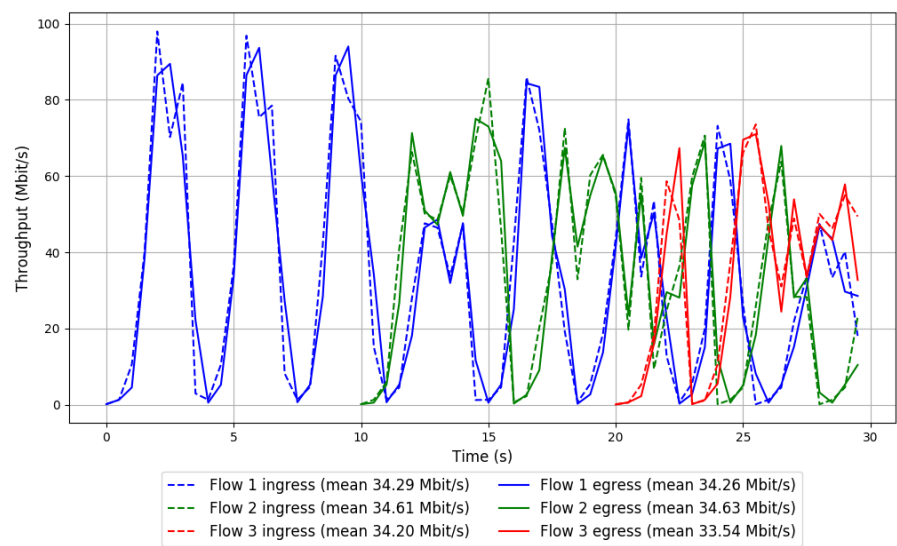


Run 2: Statistics of Verus

Start at: 2018-03-21 00:28:00  
End at: 2018-03-21 00:28:30  
Local clock offset: -14.194 ms  
Remote clock offset: 2.43 ms

# Below is generated by plot.py at 2018-03-21 08:00:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.16 Mbit/s  
95th percentile per-packet one-way delay: 113.006 ms  
Loss rate: 0.98%  
-- Flow 1:  
Average throughput: 34.26 Mbit/s  
95th percentile per-packet one-way delay: 109.786 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 34.63 Mbit/s  
95th percentile per-packet one-way delay: 111.613 ms  
Loss rate: 0.91%  
-- Flow 3:  
Average throughput: 33.54 Mbit/s  
95th percentile per-packet one-way delay: 117.396 ms  
Loss rate: 4.05%

Run 2: Report of Verus — Data Link

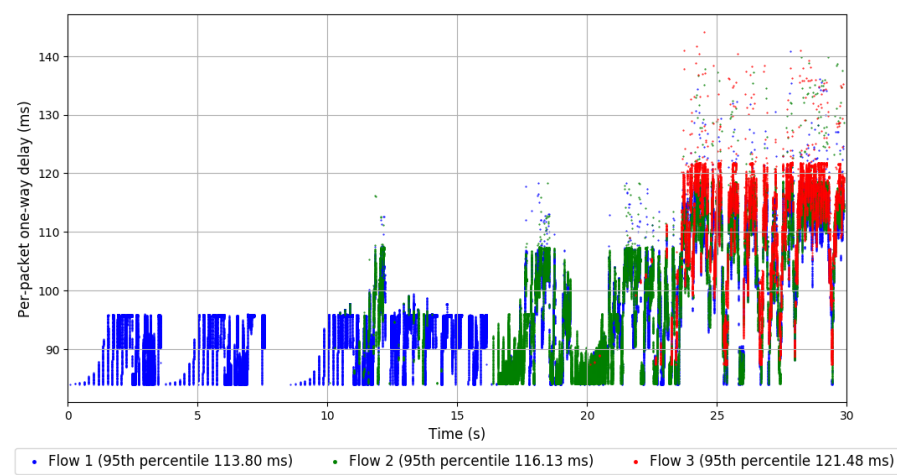
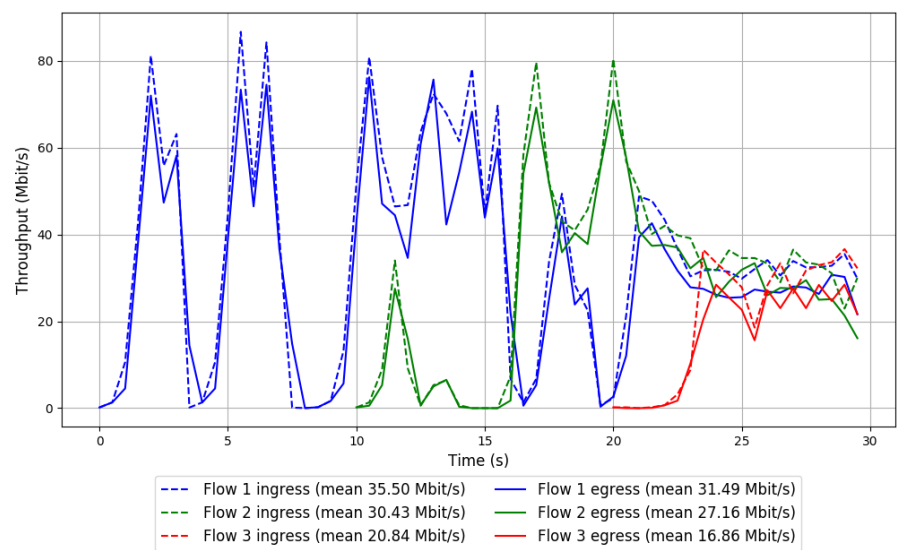


Run 3: Statistics of Verus

Start at: 2018-03-21 00:52:01  
End at: 2018-03-21 00:52:31  
Local clock offset: -14.248 ms  
Remote clock offset: 0.804 ms

# Below is generated by plot.py at 2018-03-21 08:00:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 55.05 Mbit/s  
95th percentile per-packet one-way delay: 117.040 ms  
Loss rate: 12.77%  
-- Flow 1:  
Average throughput: 31.49 Mbit/s  
95th percentile per-packet one-way delay: 113.802 ms  
Loss rate: 11.85%  
-- Flow 2:  
Average throughput: 27.16 Mbit/s  
95th percentile per-packet one-way delay: 116.128 ms  
Loss rate: 11.65%  
-- Flow 3:  
Average throughput: 16.86 Mbit/s  
95th percentile per-packet one-way delay: 121.477 ms  
Loss rate: 20.75%

Run 3: Report of Verus — Data Link

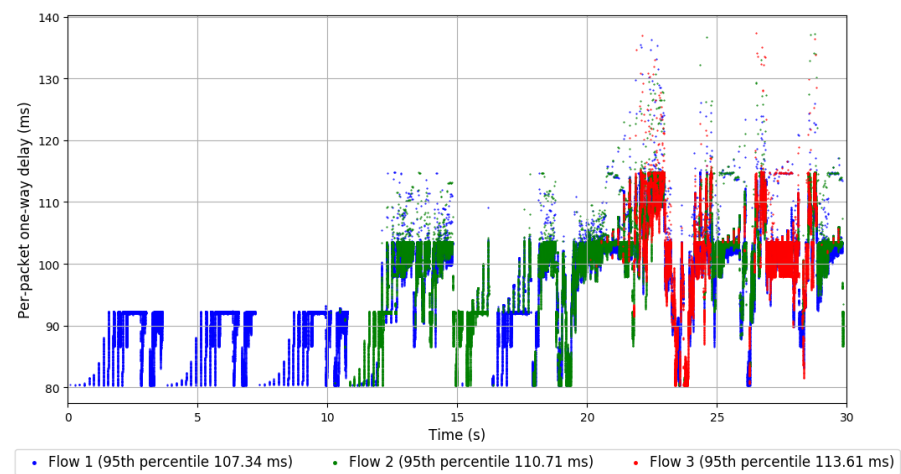
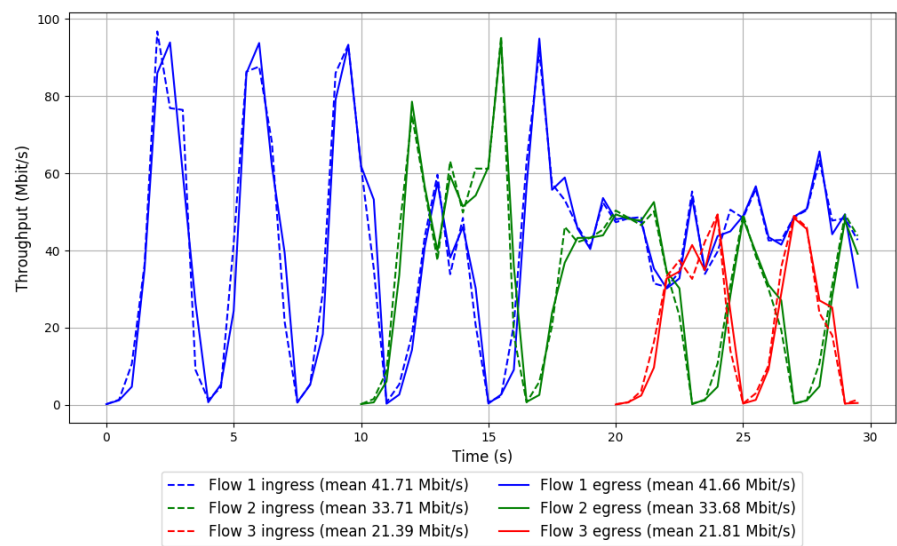


Run 4: Statistics of Verus

Start at: 2018-03-21 01:15:54  
End at: 2018-03-21 01:16:24  
Local clock offset: -14.254 ms  
Remote clock offset: 5.669 ms

# Below is generated by plot.py at 2018-03-21 08:01:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 70.94 Mbit/s  
95th percentile per-packet one-way delay: 110.487 ms  
Loss rate: 0.89%  
-- Flow 1:  
Average throughput: 41.66 Mbit/s  
95th percentile per-packet one-way delay: 107.337 ms  
Loss rate: 0.89%  
-- Flow 2:  
Average throughput: 33.68 Mbit/s  
95th percentile per-packet one-way delay: 110.712 ms  
Loss rate: 1.11%  
-- Flow 3:  
Average throughput: 21.81 Mbit/s  
95th percentile per-packet one-way delay: 113.605 ms  
Loss rate: 0.20%

Run 4: Report of Verus — Data Link



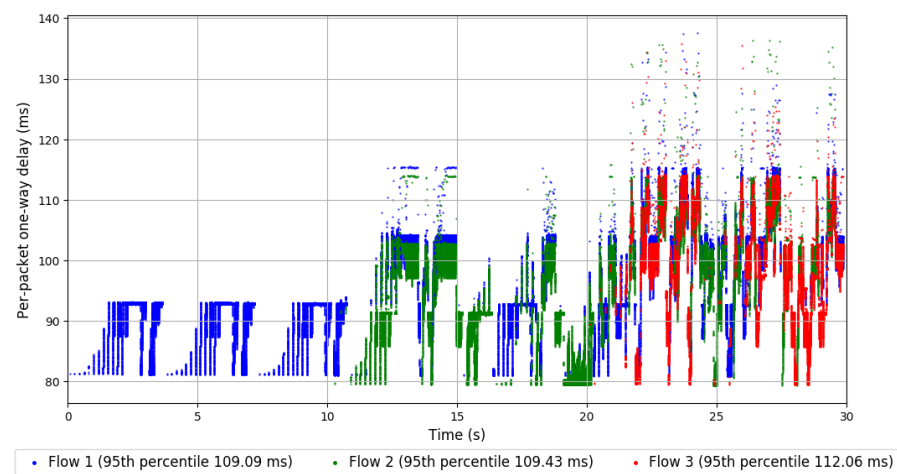
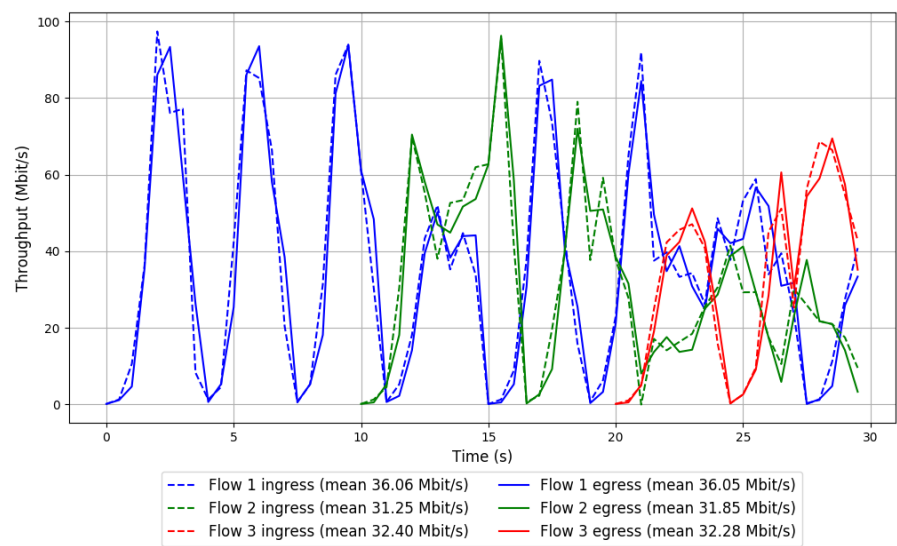
Run 5: Statistics of Verus

Start at: 2018-03-21 01:39:49  
End at: 2018-03-21 01:40:19  
Local clock offset: -12.764 ms  
Remote clock offset: 4.798 ms

# Below is generated by plot.py at 2018-03-21 08:01:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 67.39 Mbit/s  
95th percentile per-packet one-way delay: 109.970 ms  
Loss rate: 1.02%  
-- Flow 1:  
Average throughput: 36.05 Mbit/s  
95th percentile per-packet one-way delay: 109.088 ms  
Loss rate: 0.71%  
-- Flow 2:  
Average throughput: 31.85 Mbit/s  
95th percentile per-packet one-way delay: 109.429 ms  
Loss rate: 0.77%  
-- Flow 3:  
Average throughput: 32.28 Mbit/s  
95th percentile per-packet one-way delay: 112.065 ms  
Loss rate: 2.53%



Run 5: Report of Verus — Data Link

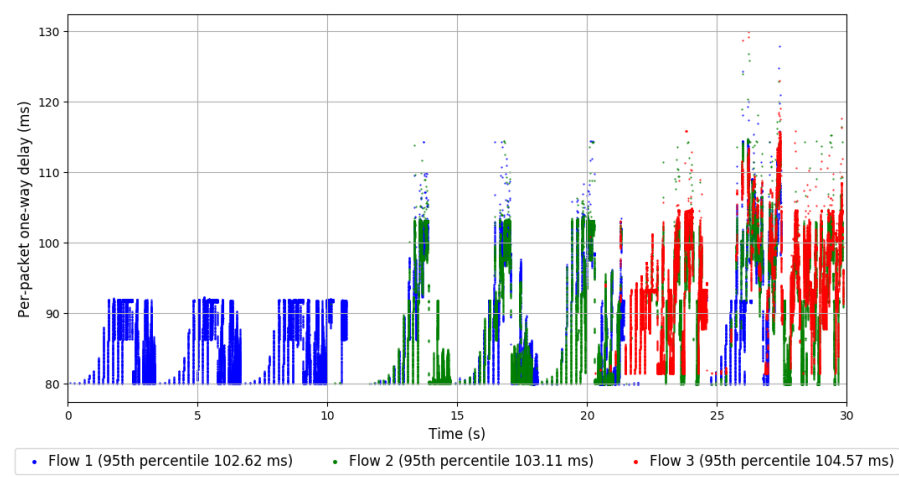
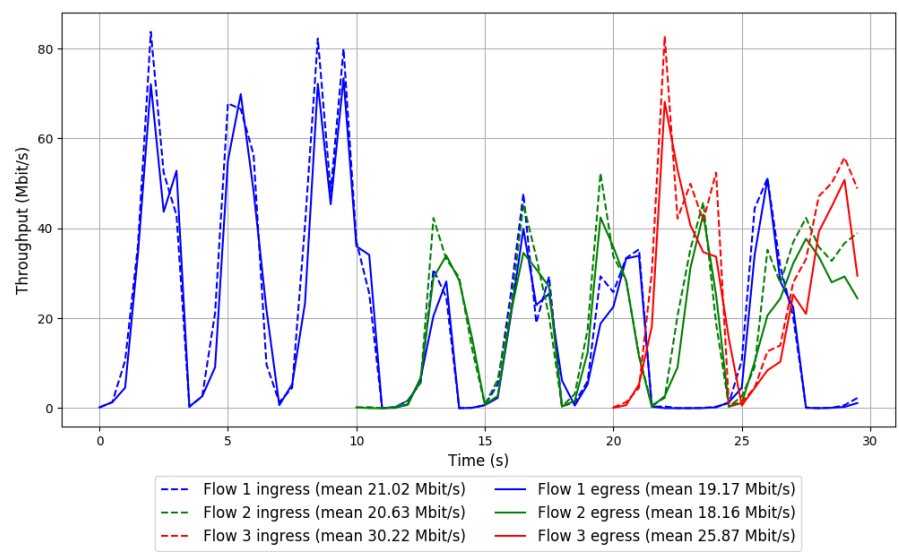


Run 6: Statistics of Verus

Start at: 2018-03-21 02:03:51  
End at: 2018-03-21 02:04:21  
Local clock offset: -3.027 ms  
Remote clock offset: 3.935 ms

# Below is generated by plot.py at 2018-03-21 08:01:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 39.62 Mbit/s  
95th percentile per-packet one-way delay: 103.079 ms  
Loss rate: 11.95%  
-- Flow 1:  
Average throughput: 19.17 Mbit/s  
95th percentile per-packet one-way delay: 102.619 ms  
Loss rate: 9.38%  
-- Flow 2:  
Average throughput: 18.16 Mbit/s  
95th percentile per-packet one-way delay: 103.115 ms  
Loss rate: 12.81%  
-- Flow 3:  
Average throughput: 25.87 Mbit/s  
95th percentile per-packet one-way delay: 104.573 ms  
Loss rate: 16.13%

Run 6: Report of Verus — Data Link

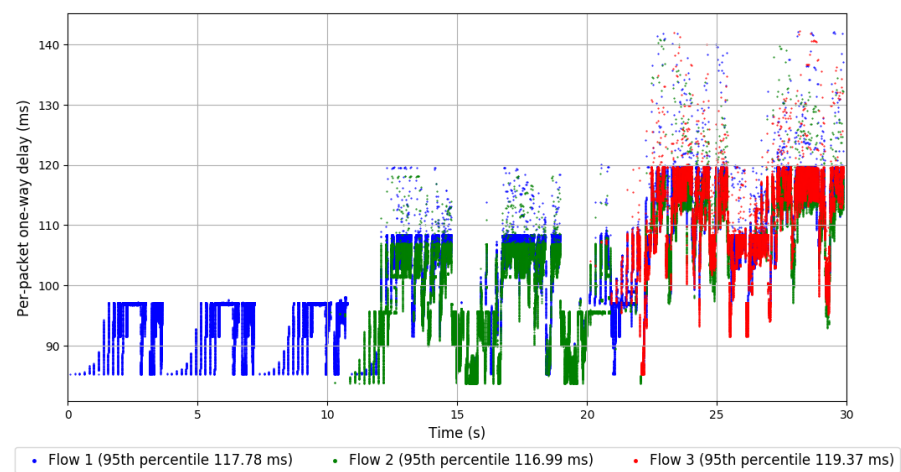
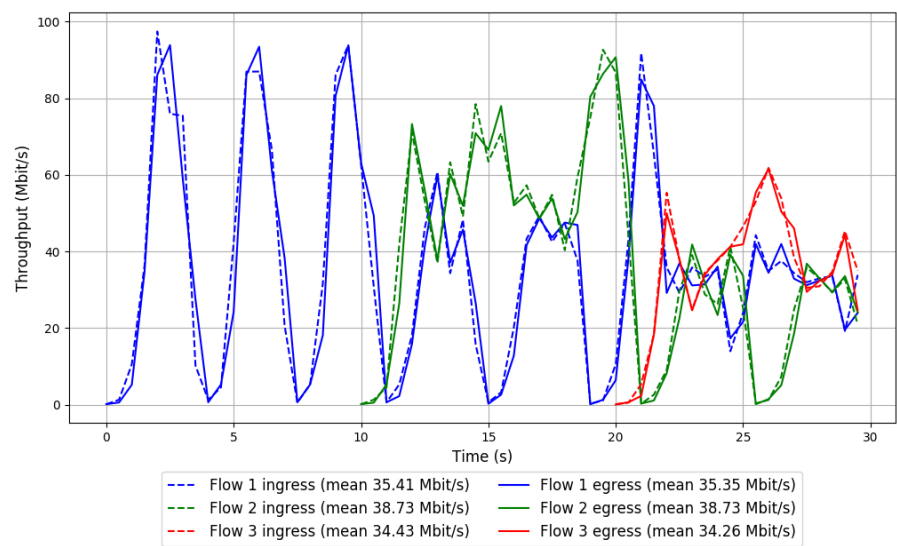


Run 7: Statistics of Verus

Start at: 2018-03-21 02:27:41  
End at: 2018-03-21 02:28:11  
Local clock offset: -4.452 ms  
Remote clock offset: -0.853 ms

```
# Below is generated by plot.py at 2018-03-21 08:01:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.24 Mbit/s
95th percentile per-packet one-way delay: 118.019 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 35.35 Mbit/s
95th percentile per-packet one-way delay: 117.779 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 38.73 Mbit/s
95th percentile per-packet one-way delay: 116.991 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 34.26 Mbit/s
95th percentile per-packet one-way delay: 119.373 ms
Loss rate: 2.72%
```

Run 7: Report of Verus — Data Link

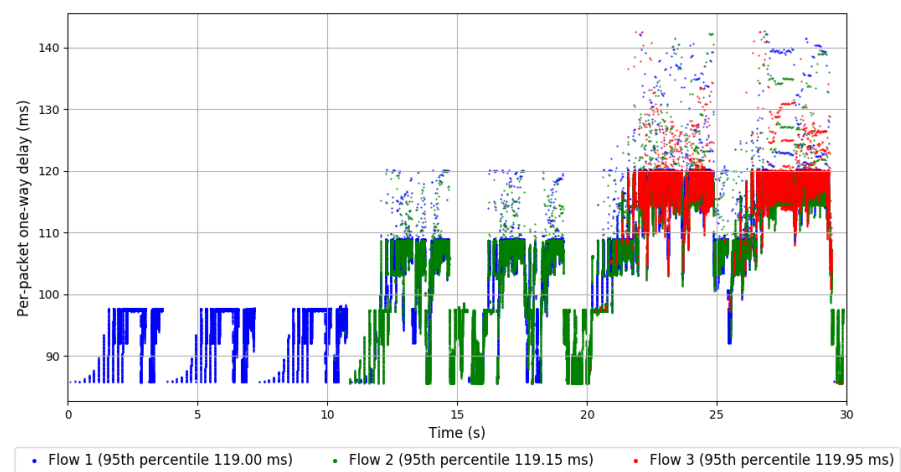
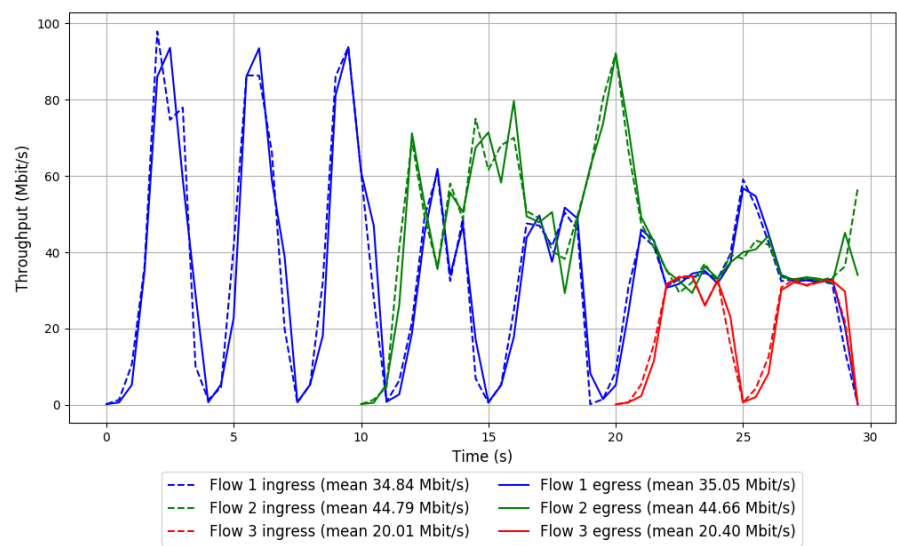


Run 8: Statistics of Verus

Start at: 2018-03-21 02:51:32  
End at: 2018-03-21 02:52:02  
Local clock offset: -4.742 ms  
Remote clock offset: -1.779 ms

# Below is generated by plot.py at 2018-03-21 08:01:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 71.09 Mbit/s  
95th percentile per-packet one-way delay: 119.588 ms  
Loss rate: 0.54%  
-- Flow 1:  
Average throughput: 35.05 Mbit/s  
95th percentile per-packet one-way delay: 119.005 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 44.66 Mbit/s  
95th percentile per-packet one-way delay: 119.151 ms  
Loss rate: 1.27%  
-- Flow 3:  
Average throughput: 20.40 Mbit/s  
95th percentile per-packet one-way delay: 119.955 ms  
Loss rate: 0.05%

Run 8: Report of Verus — Data Link



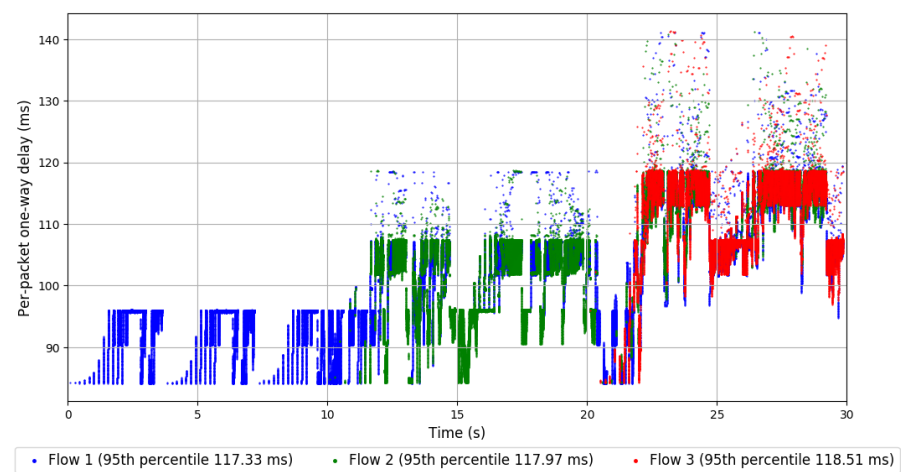
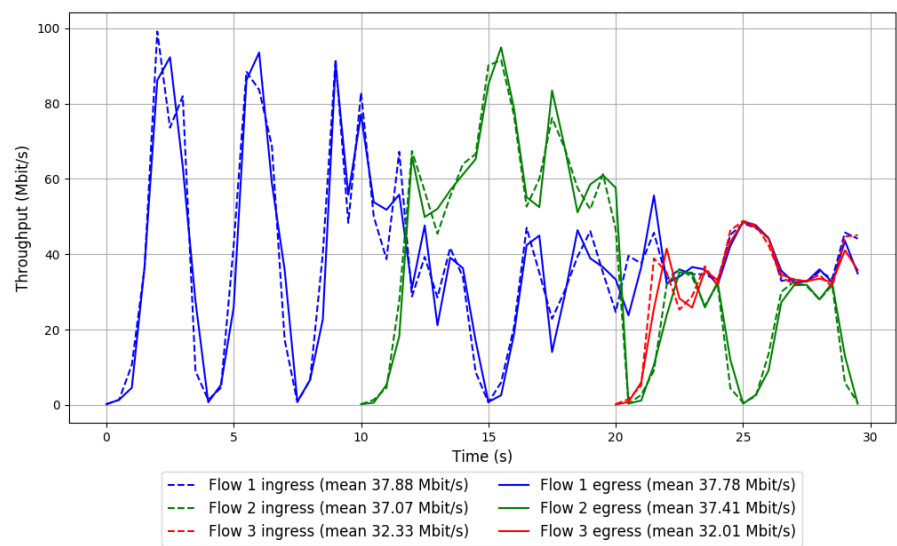
Run 9: Statistics of Verus

Start at: 2018-03-21 03:15:37  
End at: 2018-03-21 03:16:07  
Local clock offset: -5.556 ms  
Remote clock offset: -2.666 ms

# Below is generated by plot.py at 2018-03-21 08:01:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 73.02 Mbit/s  
95th percentile per-packet one-way delay: 118.033 ms  
Loss rate: 0.91%  
-- Flow 1:  
Average throughput: 37.78 Mbit/s  
95th percentile per-packet one-way delay: 117.327 ms  
Loss rate: 0.87%  
-- Flow 2:  
Average throughput: 37.41 Mbit/s  
95th percentile per-packet one-way delay: 117.965 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 32.01 Mbit/s  
95th percentile per-packet one-way delay: 118.514 ms  
Loss rate: 3.06%



Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-03-21 03:39:31

End at: 2018-03-21 03:40:01

Local clock offset: -5.541 ms

Remote clock offset: 0.343 ms

# Below is generated by plot.py at 2018-03-21 08:01:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 68.10 Mbit/s

95th percentile per-packet one-way delay: 113.506 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 39.56 Mbit/s

95th percentile per-packet one-way delay: 111.886 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 26.13 Mbit/s

95th percentile per-packet one-way delay: 114.042 ms

Loss rate: 1.33%

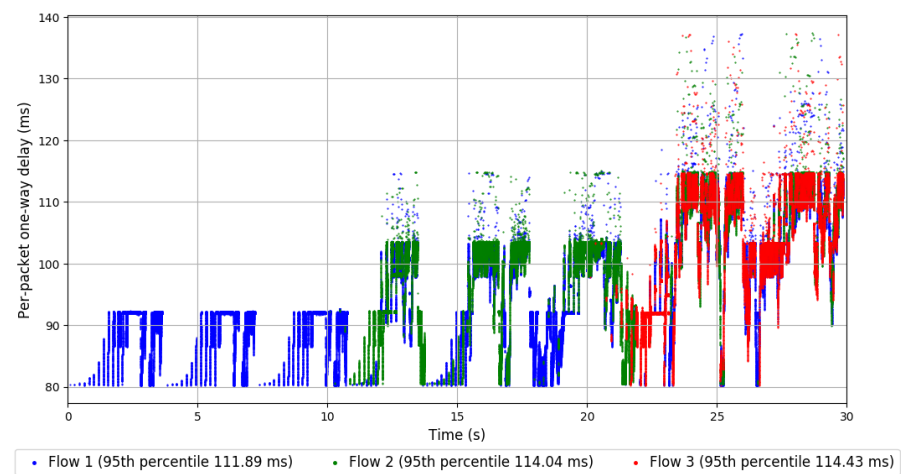
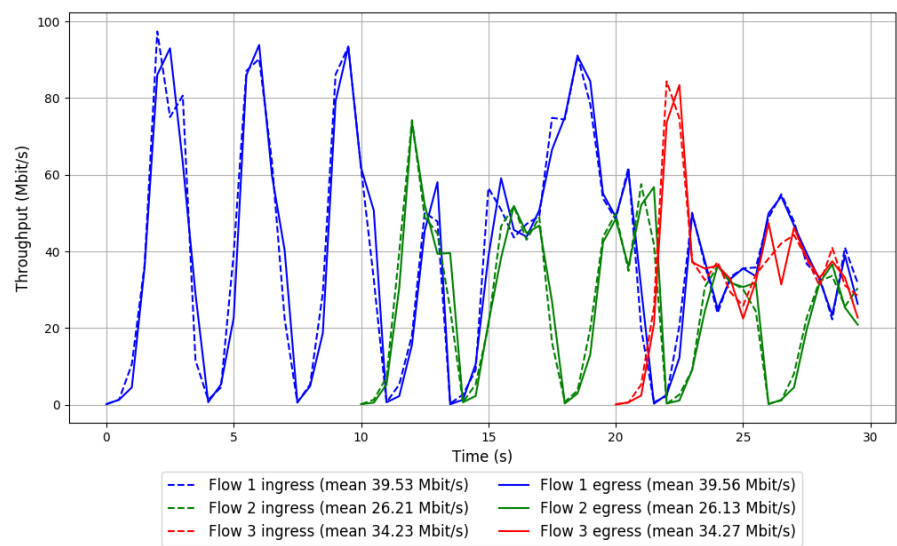
-- Flow 3:

Average throughput: 34.27 Mbit/s

95th percentile per-packet one-way delay: 114.431 ms

Loss rate: 2.03%

Run 10: Report of Verus — Data Link

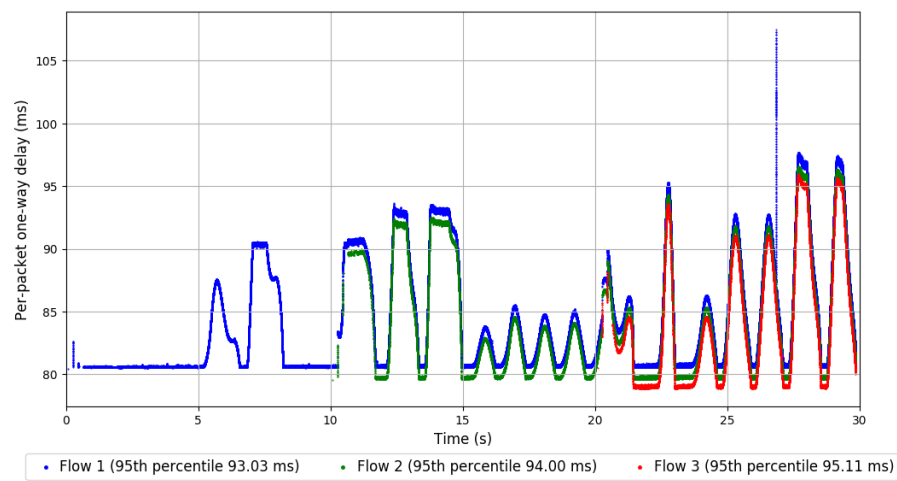
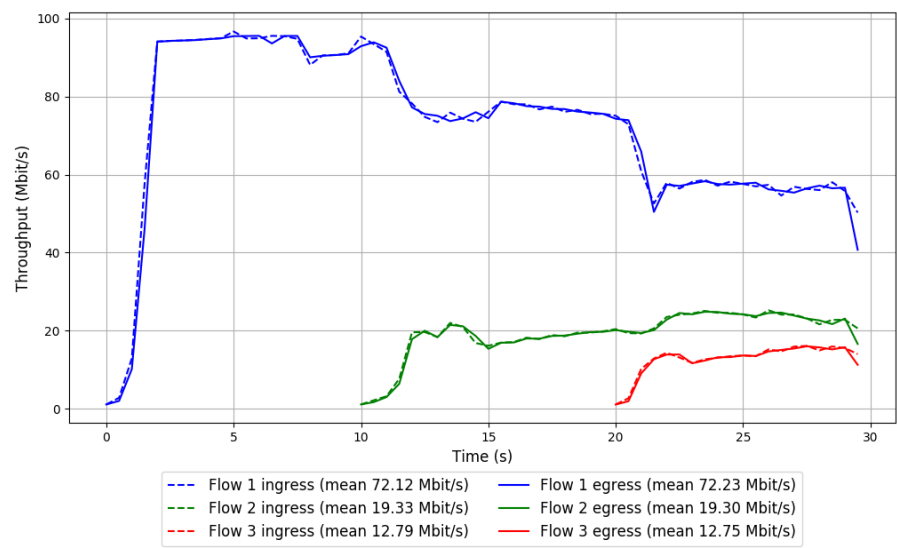


Run 1: Statistics of Copa

Start at: 2018-03-21 00:02:45  
End at: 2018-03-21 00:03:15  
Local clock offset: -13.685 ms  
Remote clock offset: 8.981 ms

# Below is generated by plot.py at 2018-03-21 08:03:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.23 Mbit/s  
95th percentile per-packet one-way delay: 93.074 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 72.23 Mbit/s  
95th percentile per-packet one-way delay: 93.030 ms  
Loss rate: 0.45%  
-- Flow 2:  
Average throughput: 19.30 Mbit/s  
95th percentile per-packet one-way delay: 93.998 ms  
Loss rate: 1.04%  
-- Flow 3:  
Average throughput: 12.75 Mbit/s  
95th percentile per-packet one-way delay: 95.110 ms  
Loss rate: 2.16%

Run 1: Report of Copa — Data Link

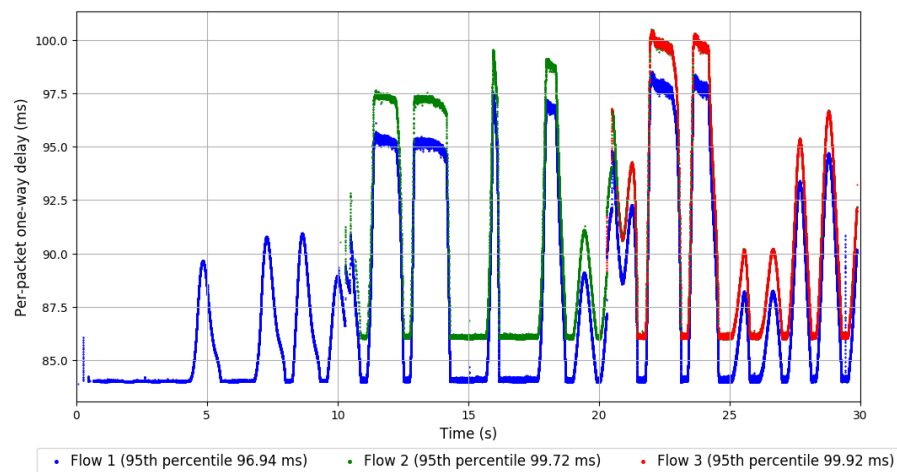
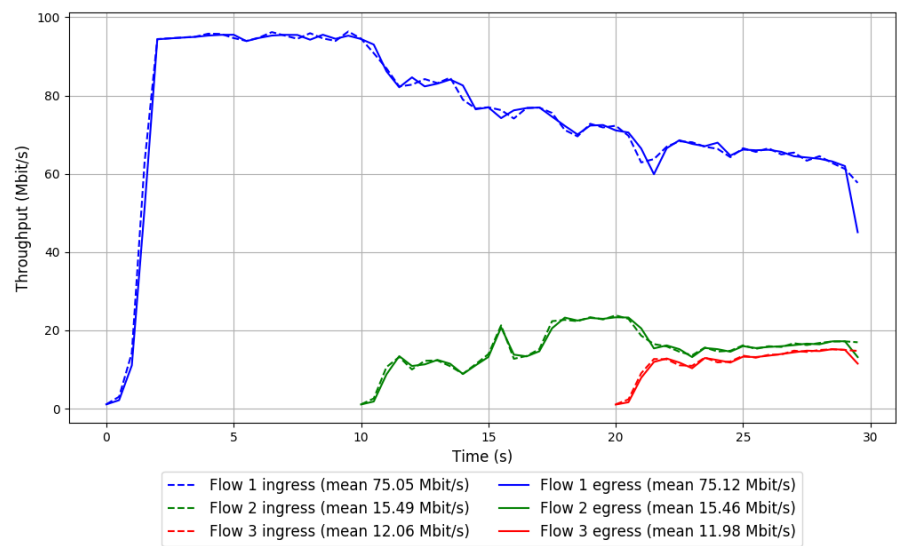


Run 2: Statistics of Copa

Start at: 2018-03-21 00:26:36  
End at: 2018-03-21 00:27:06  
Local clock offset: -14.253 ms  
Remote clock offset: 1.655 ms

# Below is generated by plot.py at 2018-03-21 08:03:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.31 Mbit/s  
95th percentile per-packet one-way delay: 97.690 ms  
Loss rate: 0.67%  
-- Flow 1:  
Average throughput: 75.12 Mbit/s  
95th percentile per-packet one-way delay: 96.936 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 15.46 Mbit/s  
95th percentile per-packet one-way delay: 99.723 ms  
Loss rate: 1.12%  
-- Flow 3:  
Average throughput: 11.98 Mbit/s  
95th percentile per-packet one-way delay: 99.925 ms  
Loss rate: 2.49%

Run 2: Report of Copa — Data Link



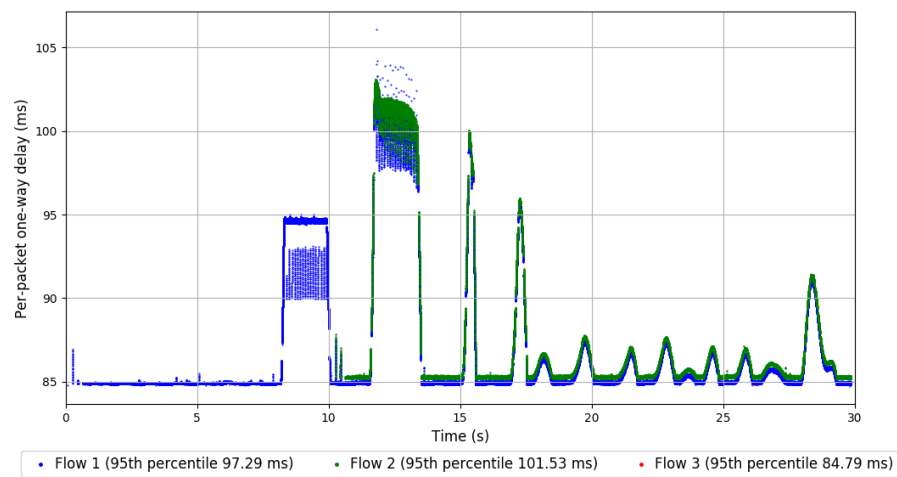
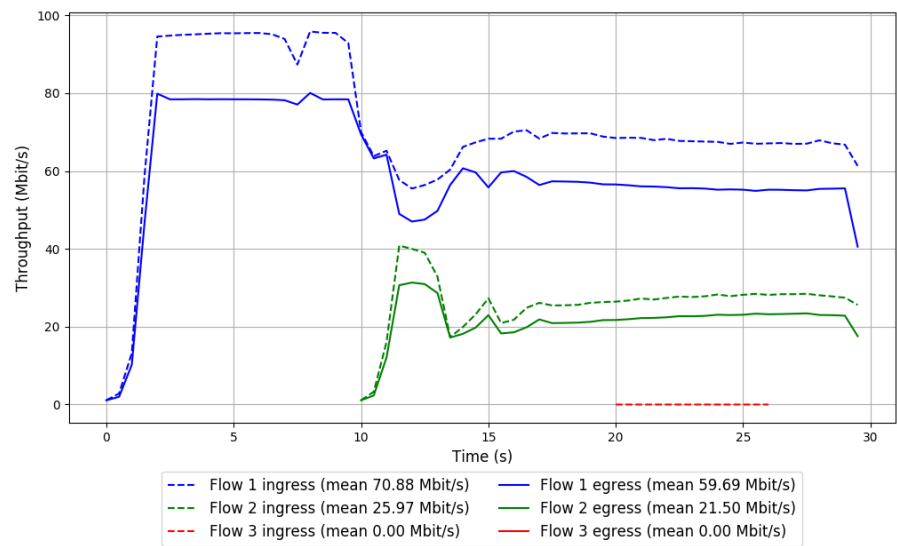
Run 3: Statistics of Copa

Start at: 2018-03-21 00:50:28  
End at: 2018-03-21 00:50:59  
Local clock offset: -14.236 ms  
Remote clock offset: 1.666 ms

# Below is generated by plot.py at 2018-03-21 08:03:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 73.97 Mbit/s  
95th percentile per-packet one-way delay: 100.136 ms  
Loss rate: 16.63%  
-- Flow 1:  
Average throughput: 59.69 Mbit/s  
95th percentile per-packet one-way delay: 97.286 ms  
Loss rate: 16.31%  
-- Flow 2:  
Average throughput: 21.50 Mbit/s  
95th percentile per-packet one-way delay: 101.534 ms  
Loss rate: 17.96%  
-- Flow 3:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 84.786 ms  
Loss rate: 75.00%



Run 3: Report of Copa — Data Link

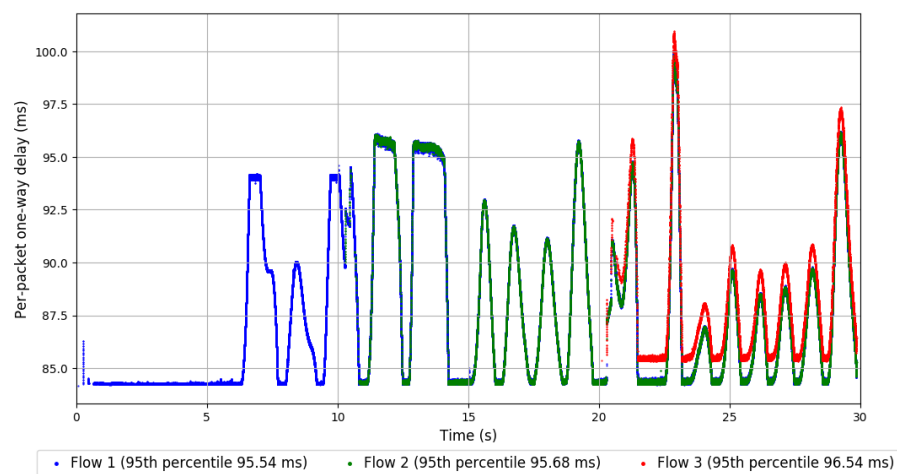
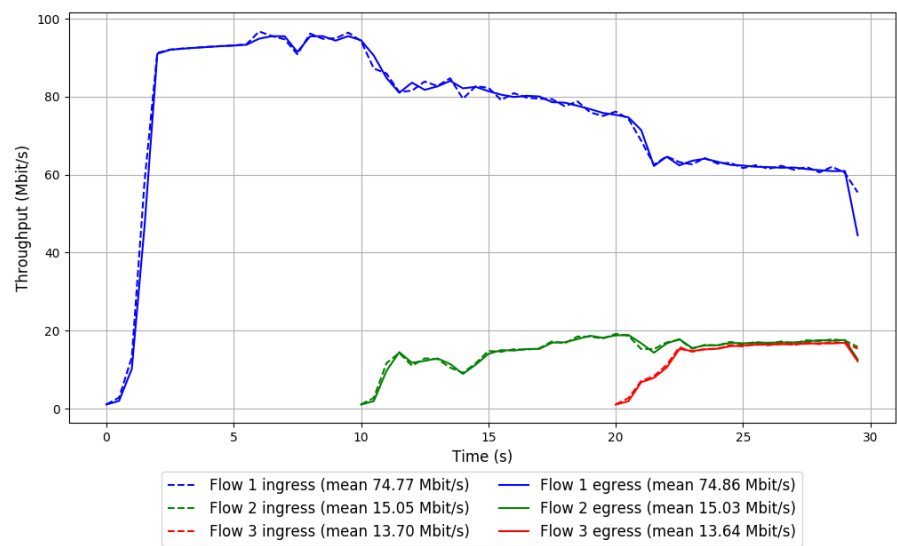


Run 4: Statistics of Copa

Start at: 2018-03-21 01:14:30  
End at: 2018-03-21 01:15:00  
Local clock offset: -14.298 ms  
Remote clock offset: 1.79 ms

# Below is generated by plot.py at 2018-03-21 08:03:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.30 Mbit/s  
95th percentile per-packet one-way delay: 95.567 ms  
Loss rate: 0.65%  
-- Flow 1:  
Average throughput: 74.86 Mbit/s  
95th percentile per-packet one-way delay: 95.542 ms  
Loss rate: 0.49%  
-- Flow 2:  
Average throughput: 15.03 Mbit/s  
95th percentile per-packet one-way delay: 95.679 ms  
Loss rate: 1.06%  
-- Flow 3:  
Average throughput: 13.64 Mbit/s  
95th percentile per-packet one-way delay: 96.544 ms  
Loss rate: 2.31%

Run 4: Report of Copa — Data Link

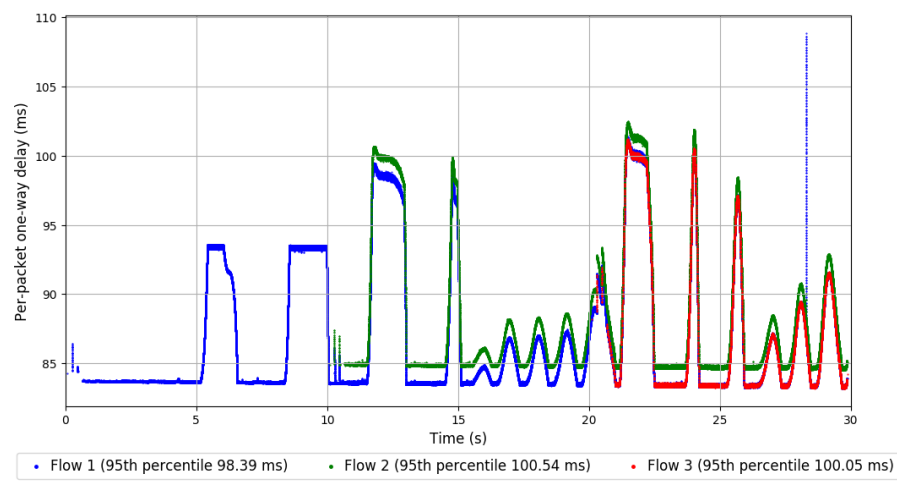
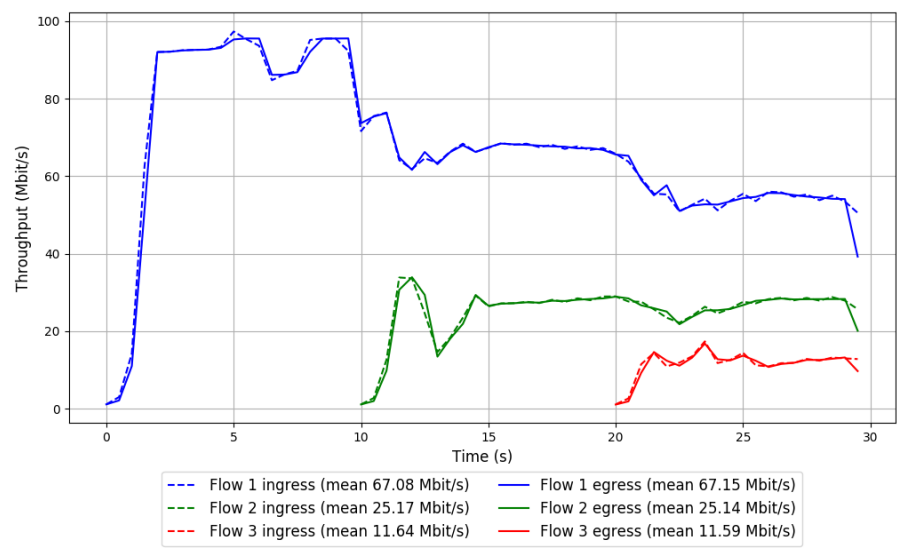


Run 5: Statistics of Copa

Start at: 2018-03-21 01:38:26  
End at: 2018-03-21 01:38:56  
Local clock offset: -14.188 ms  
Remote clock offset: 0.965 ms

# Below is generated by plot.py at 2018-03-21 08:03:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.64 Mbit/s  
95th percentile per-packet one-way delay: 99.156 ms  
Loss rate: 0.69%  
-- Flow 1:  
Average throughput: 67.15 Mbit/s  
95th percentile per-packet one-way delay: 98.390 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 25.14 Mbit/s  
95th percentile per-packet one-way delay: 100.537 ms  
Loss rate: 1.03%  
-- Flow 3:  
Average throughput: 11.59 Mbit/s  
95th percentile per-packet one-way delay: 100.045 ms  
Loss rate: 2.29%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-03-21 02:02:27

End at: 2018-03-21 02:02:57

Local clock offset: -3.32 ms

Remote clock offset: 3.882 ms

# Below is generated by plot.py at 2018-03-21 08:03:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.61 Mbit/s

95th percentile per-packet one-way delay: 95.935 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 74.01 Mbit/s

95th percentile per-packet one-way delay: 92.547 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 11.34 Mbit/s

95th percentile per-packet one-way delay: 98.938 ms

Loss rate: 1.13%

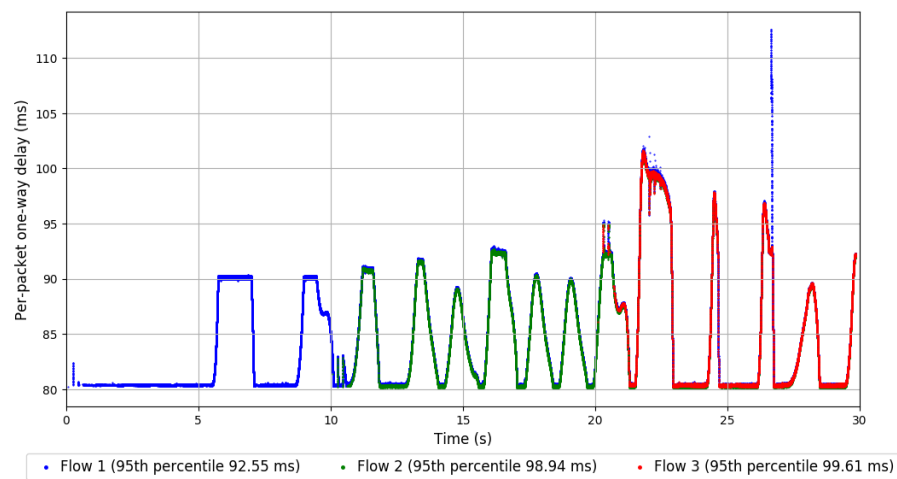
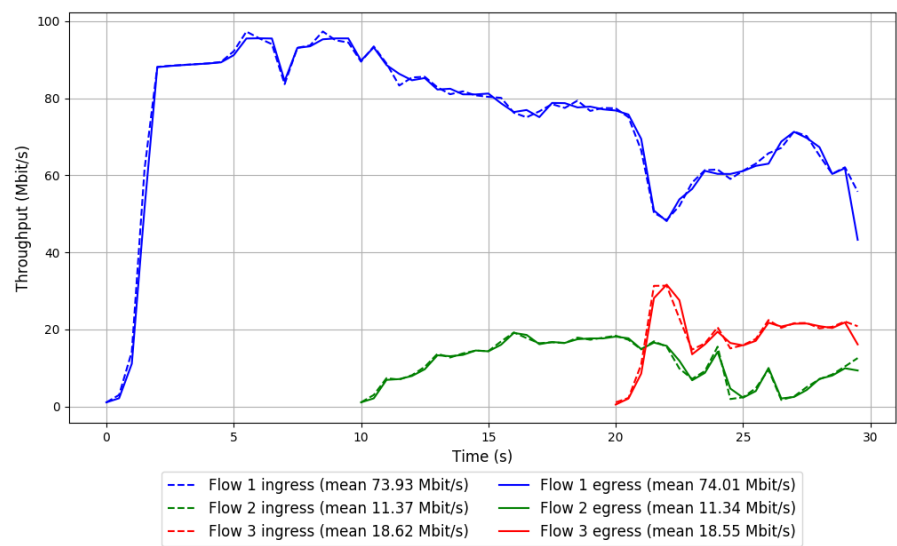
-- Flow 3:

Average throughput: 18.55 Mbit/s

95th percentile per-packet one-way delay: 99.615 ms

Loss rate: 2.27%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-03-21 02:26:17

End at: 2018-03-21 02:26:47

Local clock offset: -4.414 ms

Remote clock offset: 3.121 ms

# Below is generated by plot.py at 2018-03-21 08:03:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.54 Mbit/s

95th percentile per-packet one-way delay: 93.094 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 75.20 Mbit/s

95th percentile per-packet one-way delay: 92.779 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 16.15 Mbit/s

95th percentile per-packet one-way delay: 93.458 ms

Loss rate: 1.01%

-- Flow 3:

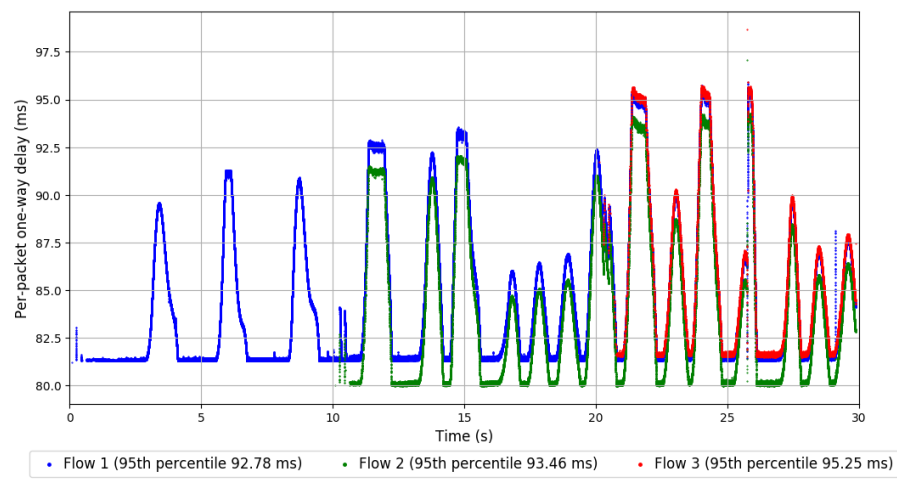
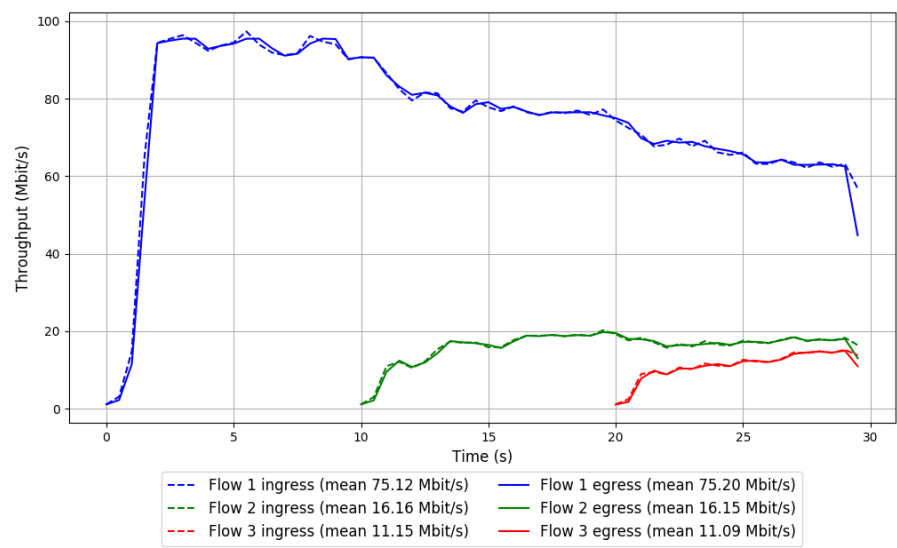
Average throughput: 11.09 Mbit/s

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

Loss rate: 2.47%



Run 7: Report of Copa — Data Link

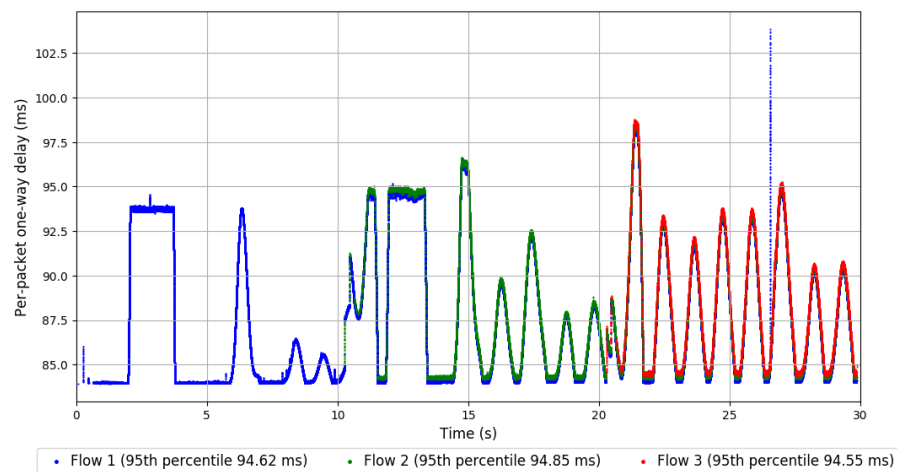
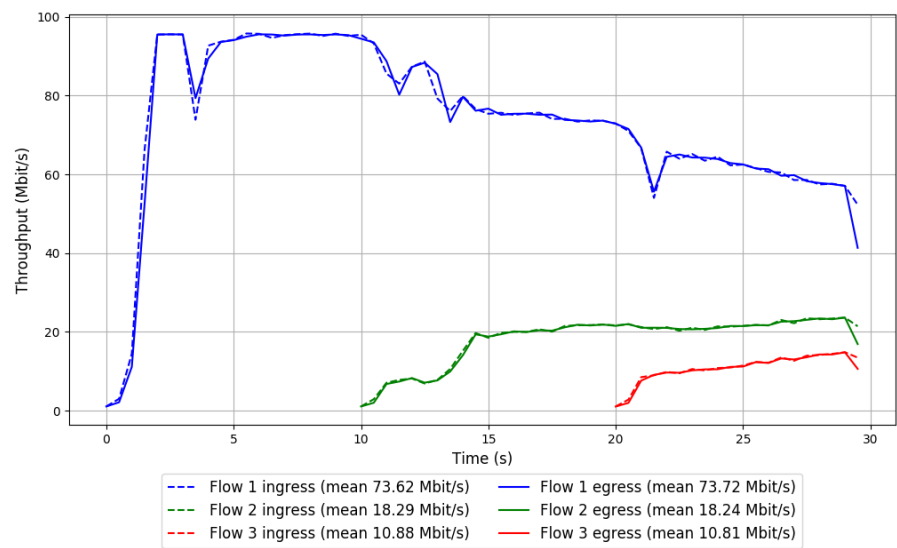


Run 8: Statistics of Copa

Start at: 2018-03-21 02:50:08  
End at: 2018-03-21 02:50:38  
Local clock offset: -4.539 ms  
Remote clock offset: -1.669 ms

# Below is generated by plot.py at 2018-03-21 08:03:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.38 Mbit/s  
95th percentile per-packet one-way delay: 94.638 ms  
Loss rate: 0.65%  
-- Flow 1:  
Average throughput: 73.72 Mbit/s  
95th percentile per-packet one-way delay: 94.620 ms  
Loss rate: 0.47%  
-- Flow 2:  
Average throughput: 18.24 Mbit/s  
95th percentile per-packet one-way delay: 94.853 ms  
Loss rate: 1.19%  
-- Flow 3:  
Average throughput: 10.81 Mbit/s  
95th percentile per-packet one-way delay: 94.553 ms  
Loss rate: 2.51%

Run 8: Report of Copa — Data Link

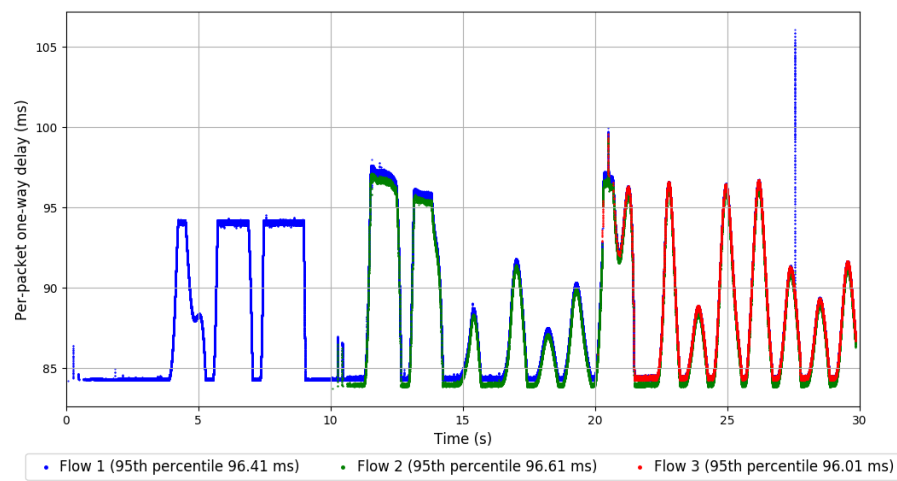
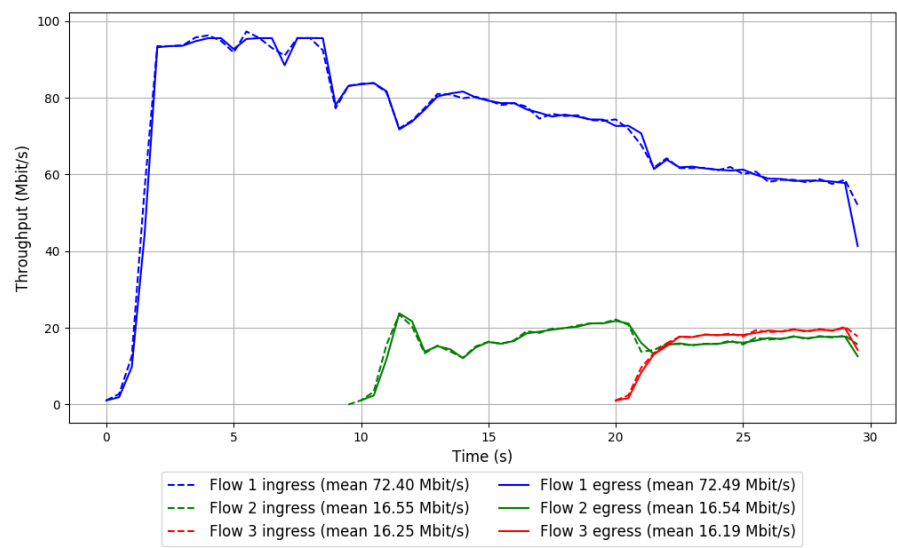


Run 9: Statistics of Copa

Start at: 2018-03-21 03:14:13  
End at: 2018-03-21 03:14:43  
Local clock offset: -5.503 ms  
Remote clock offset: -2.551 ms

# Below is generated by plot.py at 2018-03-21 08:05:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.78 Mbit/s  
95th percentile per-packet one-way delay: 96.437 ms  
Loss rate: 0.65%  
-- Flow 1:  
Average throughput: 72.49 Mbit/s  
95th percentile per-packet one-way delay: 96.407 ms  
Loss rate: 0.49%  
-- Flow 2:  
Average throughput: 16.54 Mbit/s  
95th percentile per-packet one-way delay: 96.614 ms  
Loss rate: 0.95%  
-- Flow 3:  
Average throughput: 16.19 Mbit/s  
95th percentile per-packet one-way delay: 96.007 ms  
Loss rate: 2.22%

Run 9: Report of Copa — Data Link

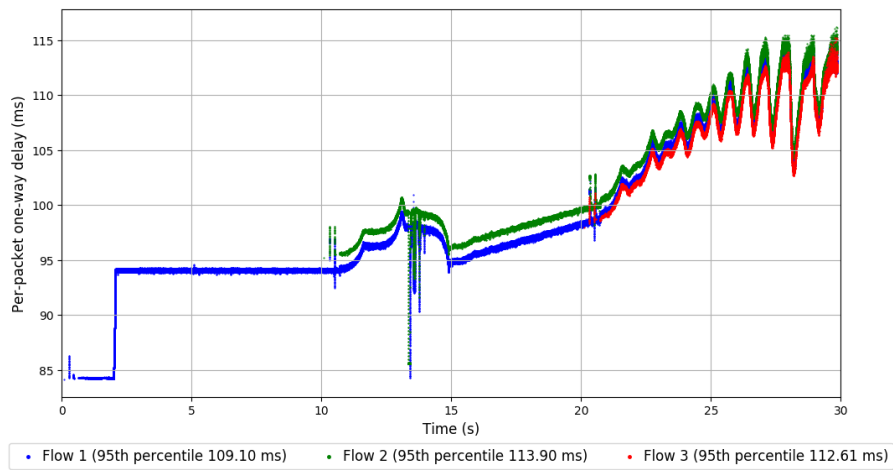
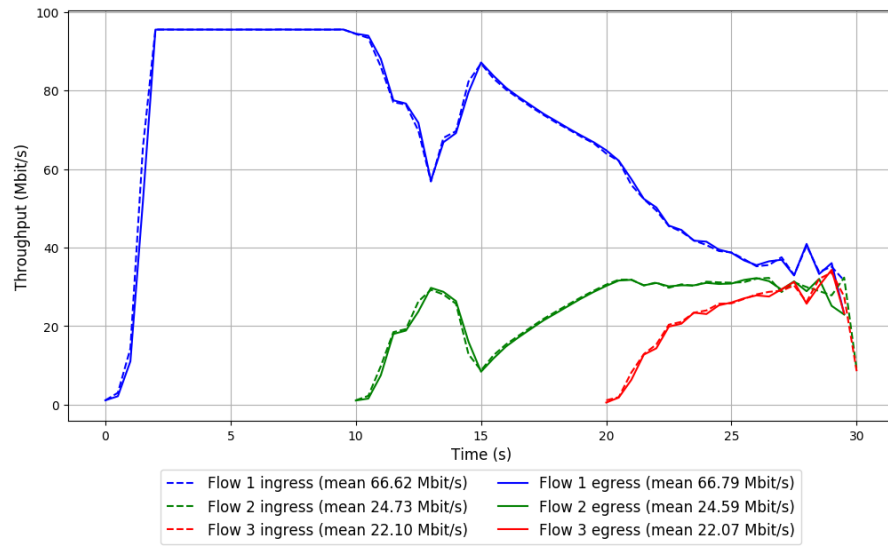


Run 10: Statistics of Copa

Start at: 2018-03-21 03:38:07  
End at: 2018-03-21 03:38:37  
Local clock offset: -5.577 ms  
Remote clock offset: -3.463 ms

# Below is generated by plot.py at 2018-03-21 08:05:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.33 Mbit/s  
95th percentile per-packet one-way delay: 111.933 ms  
Loss rate: 1.13%  
-- Flow 1:  
Average throughput: 66.79 Mbit/s  
95th percentile per-packet one-way delay: 109.099 ms  
Loss rate: 0.39%  
-- Flow 2:  
Average throughput: 24.59 Mbit/s  
95th percentile per-packet one-way delay: 113.902 ms  
Loss rate: 2.55%  
-- Flow 3:  
Average throughput: 22.07 Mbit/s  
95th percentile per-packet one-way delay: 112.613 ms  
Loss rate: 4.47%

# Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-03-20 23:50:47

End at: 2018-03-20 23:51:17

Local clock offset: -13.212 ms

Remote clock offset: 9.71 ms



Run 1: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of FillP

Start at: 2018-03-21 00:14:48

End at: 2018-03-21 00:15:18

Local clock offset: -14.02 ms

Remote clock offset: 8.687 ms

Run 2: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of FillP

Start at: 2018-03-21 00:38:40

End at: 2018-03-21 00:39:10

Local clock offset: -14.173 ms

Remote clock offset: 2.147 ms

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

Figure is missing

Figure is missing

Run 4: Statistics of FillP

Start at: 2018-03-21 01:02:41

End at: 2018-03-21 01:03:11

Local clock offset: -14.21 ms

Remote clock offset: 5.304 ms

Run 4: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of FillP

Start at: 2018-03-21 01:26:34

End at: 2018-03-21 01:27:04

Local clock offset: -14.286 ms

Remote clock offset: 1.432 ms



Run 5: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of FillP

Start at: 2018-03-21 01:50:29

End at: 2018-03-21 01:50:59

Local clock offset: -6.461 ms

Remote clock offset: 0.522 ms

Run 6: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of FillP

Start at: 2018-03-21 02:14:27

End at: 2018-03-21 02:14:57

Local clock offset: -2.487 ms

Remote clock offset: 3.606 ms

# Below is generated by plot.py at 2018-03-21 08:05:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 78.65 Mbit/s

95th percentile per-packet one-way delay: 109.902 ms

Loss rate: 18.01%

-- Flow 1:

Average throughput: 49.69 Mbit/s

95th percentile per-packet one-way delay: 107.183 ms

Loss rate: 17.80%

-- Flow 2:

Average throughput: 30.97 Mbit/s

95th percentile per-packet one-way delay: 110.823 ms

Loss rate: 18.69%

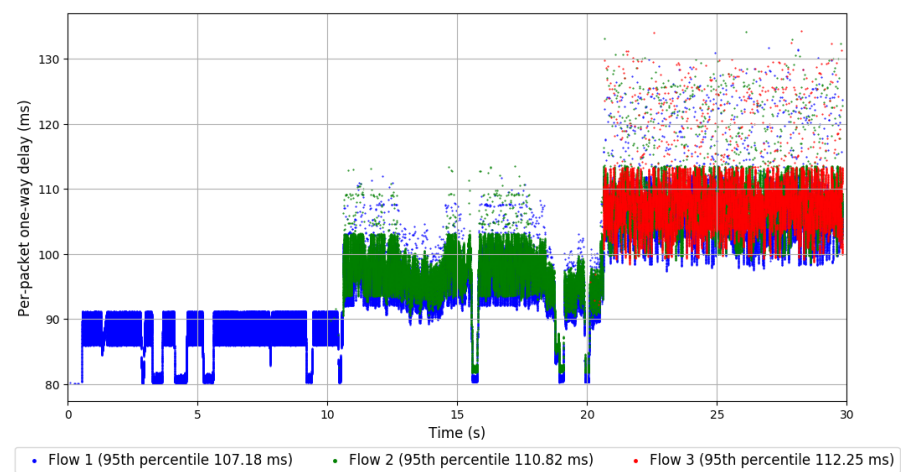
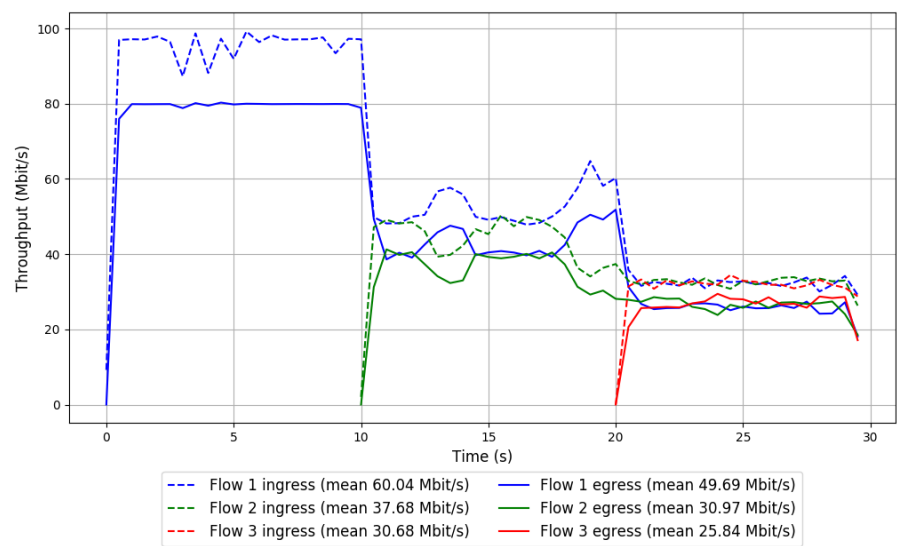
-- Flow 3:

Average throughput: 25.84 Mbit/s

95th percentile per-packet one-way delay: 112.245 ms

Loss rate: 17.59%

Run 7: Report of FillP — Data Link

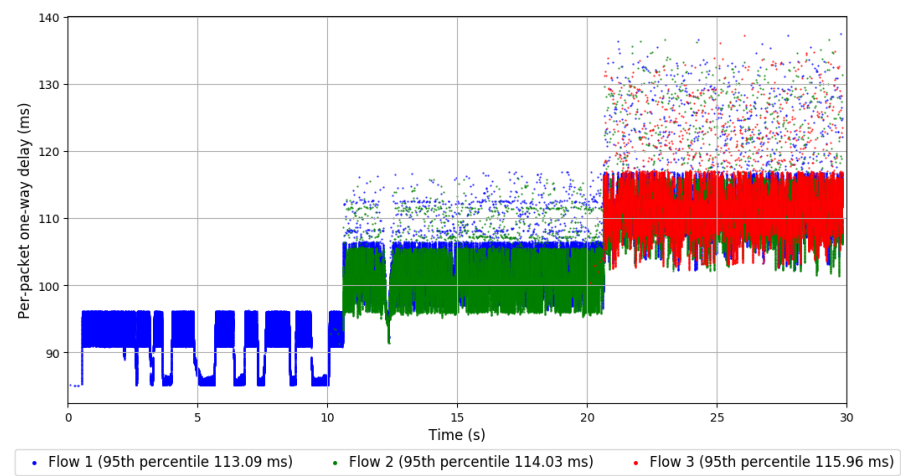
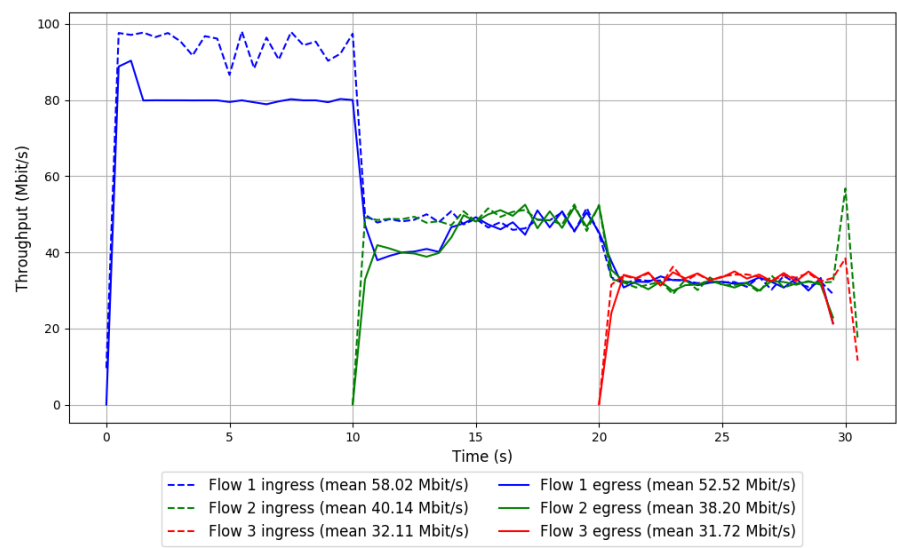


Run 8: Statistics of FillP

Start at: 2018-03-21 02:38:19  
End at: 2018-03-21 02:38:49  
Local clock offset: -4.244 ms  
Remote clock offset: -1.214 ms

# Below is generated by plot.py at 2018-03-21 08:05:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.21 Mbit/s  
95th percentile per-packet one-way delay: 114.210 ms  
Loss rate: 9.84%  
-- Flow 1:  
Average throughput: 52.52 Mbit/s  
95th percentile per-packet one-way delay: 113.094 ms  
Loss rate: 10.12%  
-- Flow 2:  
Average throughput: 38.20 Mbit/s  
95th percentile per-packet one-way delay: 114.033 ms  
Loss rate: 9.16%  
-- Flow 3:  
Average throughput: 31.72 Mbit/s  
95th percentile per-packet one-way delay: 115.960 ms  
Loss rate: 10.05%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-03-21 03:02:15

End at: 2018-03-21 03:02:45

Local clock offset: -5.46 ms

Remote clock offset: -2.088 ms



Run 9: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of FillP

Start at: 2018-03-21 03:26:17

End at: 2018-03-21 03:26:47

Local clock offset: -5.584 ms

Remote clock offset: 0.906 ms

# Below is generated by plot.py at 2018-03-21 08:05:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 78.88 Mbit/s

95th percentile per-packet one-way delay: 109.904 ms

Loss rate: 18.63%

-- Flow 1:

Average throughput: 49.01 Mbit/s

95th percentile per-packet one-way delay: 108.016 ms

Loss rate: 15.85%

-- Flow 2:

Average throughput: 32.67 Mbit/s

95th percentile per-packet one-way delay: 111.184 ms

Loss rate: 21.45%

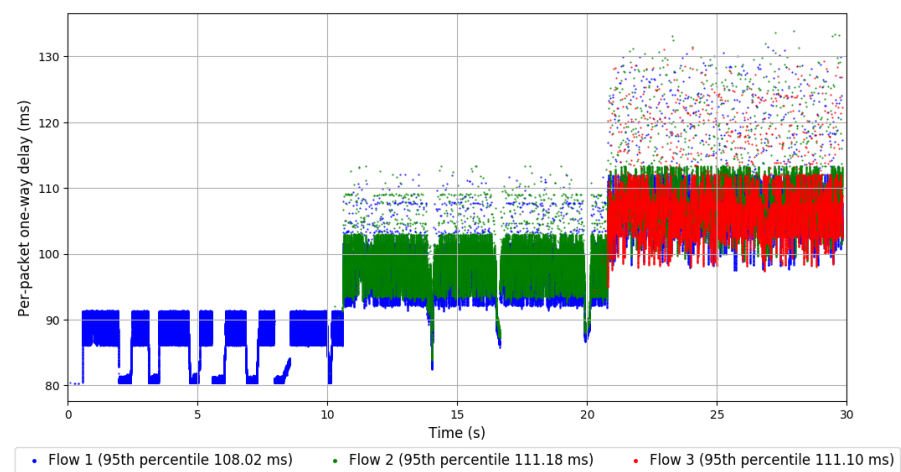
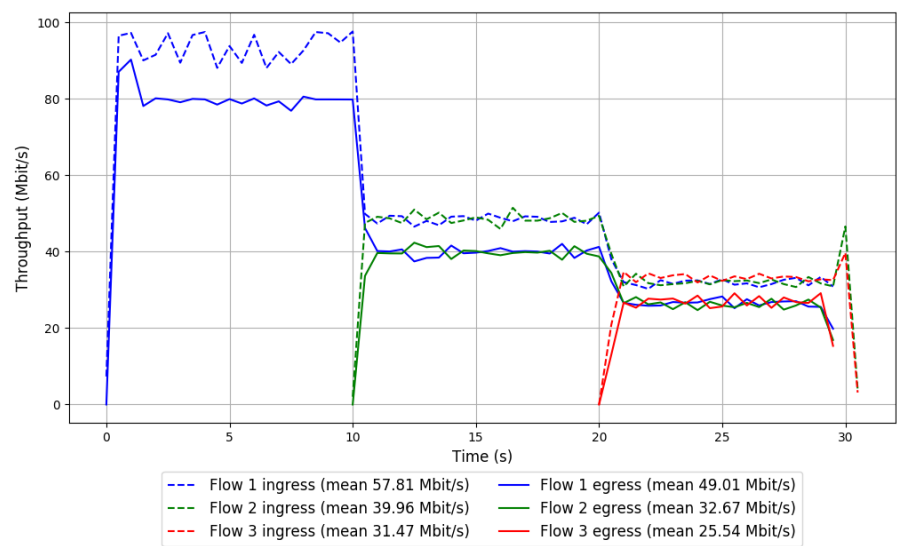
-- Flow 3:

Average throughput: 25.54 Mbit/s

95th percentile per-packet one-way delay: 111.100 ms

Loss rate: 26.22%

Run 10: Report of FillP — Data Link

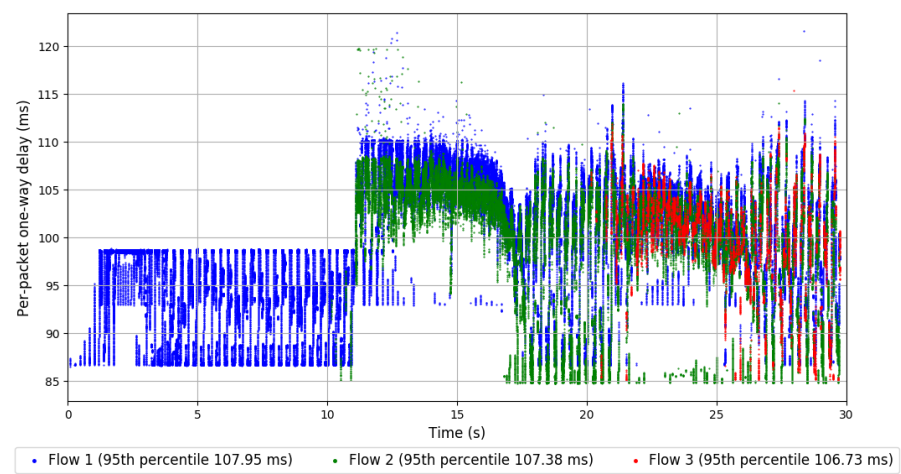
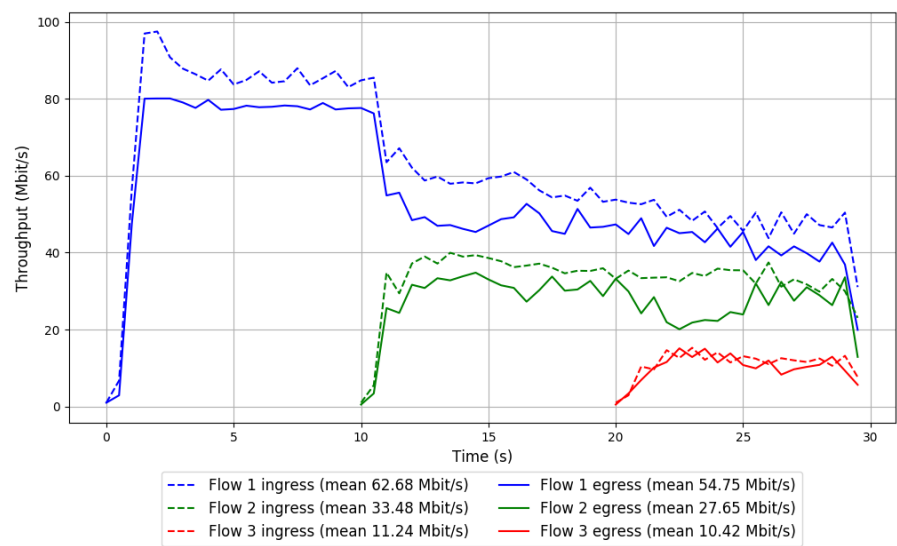


Run 1: Statistics of Indigo-1-32

Start at: 2018-03-20 23:57:14  
End at: 2018-03-20 23:57:44  
Local clock offset: -13.292 ms  
Remote clock offset: 3.593 ms

# Below is generated by plot.py at 2018-03-21 08:05:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.37 Mbit/s  
95th percentile per-packet one-way delay: 107.776 ms  
Loss rate: 14.28%  
-- Flow 1:  
Average throughput: 54.75 Mbit/s  
95th percentile per-packet one-way delay: 107.952 ms  
Loss rate: 13.19%  
-- Flow 2:  
Average throughput: 27.65 Mbit/s  
95th percentile per-packet one-way delay: 107.378 ms  
Loss rate: 18.21%  
-- Flow 3:  
Average throughput: 10.42 Mbit/s  
95th percentile per-packet one-way delay: 106.733 ms  
Loss rate: 9.22%

Run 1: Report of Indigo-1-32 — Data Link

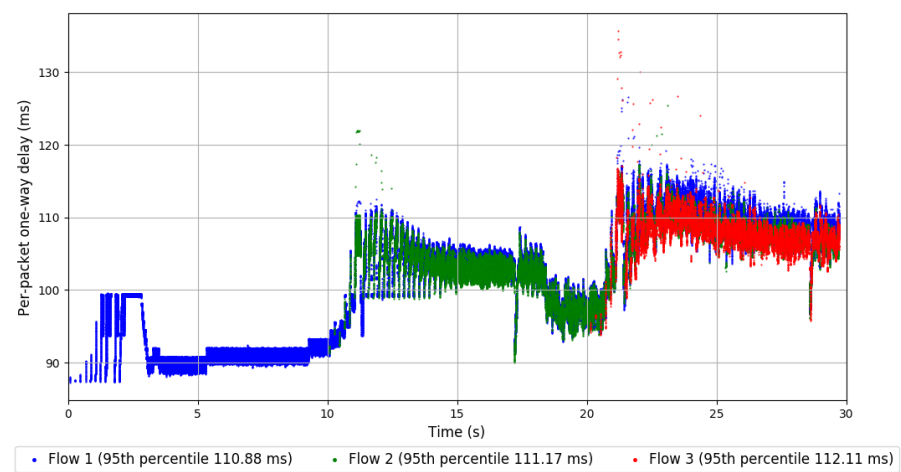
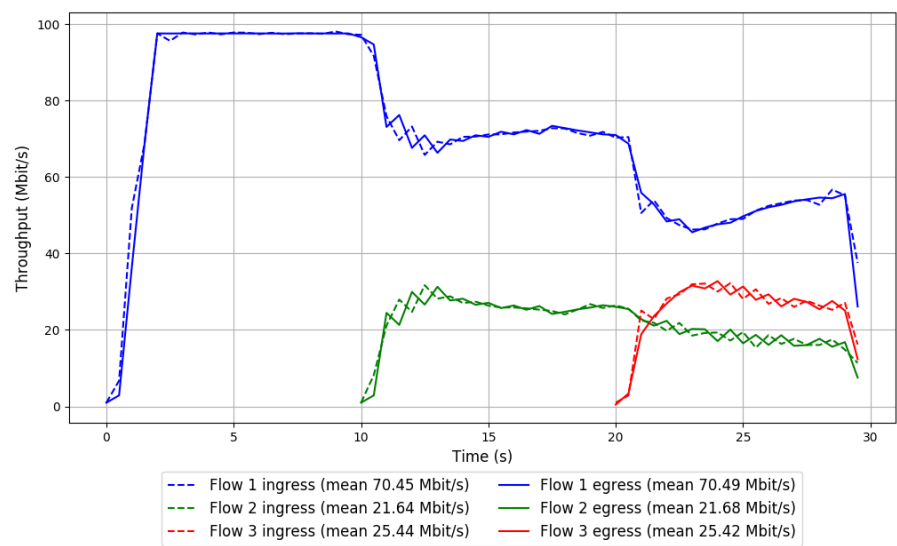


Run 2: Statistics of Indigo-1-32

Start at: 2018-03-21 00:21:15  
End at: 2018-03-21 00:21:45  
Local clock offset: -14.101 ms  
Remote clock offset: 1.919 ms

# Below is generated by plot.py at 2018-03-21 08:05:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.06 Mbit/s  
95th percentile per-packet one-way delay: 111.142 ms  
Loss rate: 0.71%  
-- Flow 1:  
Average throughput: 70.49 Mbit/s  
95th percentile per-packet one-way delay: 110.879 ms  
Loss rate: 0.55%  
-- Flow 2:  
Average throughput: 21.68 Mbit/s  
95th percentile per-packet one-way delay: 111.165 ms  
Loss rate: 0.74%  
-- Flow 3:  
Average throughput: 25.42 Mbit/s  
95th percentile per-packet one-way delay: 112.112 ms  
Loss rate: 2.02%

Run 2: Report of Indigo-1-32 — Data Link



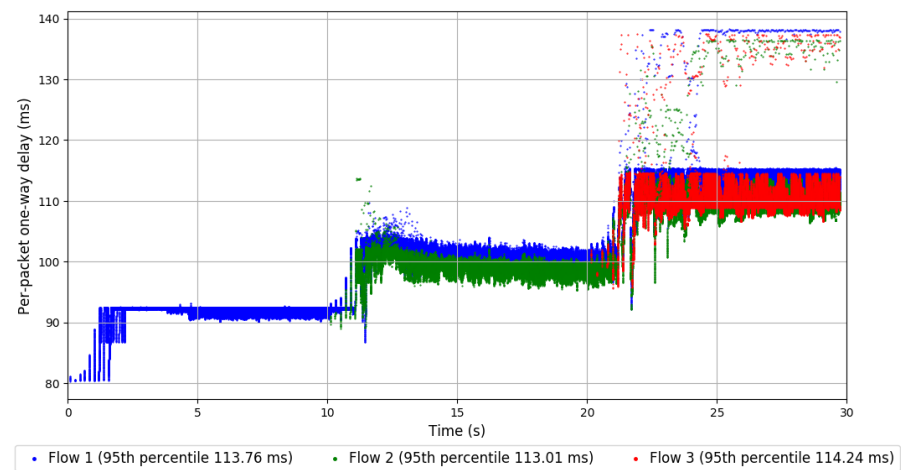
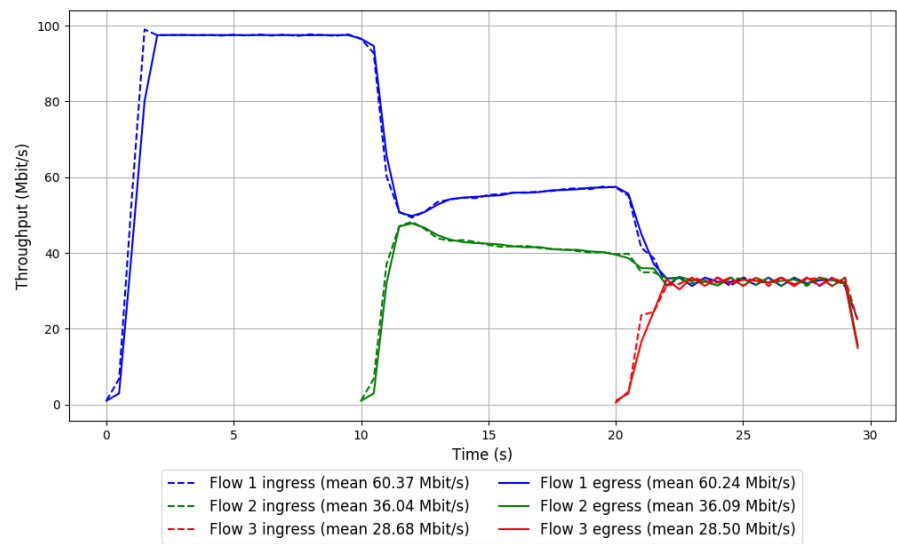
Run 3: Statistics of Indigo-1-32

Start at: 2018-03-21 00:45:08  
End at: 2018-03-21 00:45:38  
Local clock offset: -14.166 ms  
Remote clock offset: 6.704 ms

# Below is generated by plot.py at 2018-03-21 08:05:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.31 Mbit/s  
95th percentile per-packet one-way delay: 113.566 ms  
Loss rate: 1.09%  
-- Flow 1:  
Average throughput: 60.24 Mbit/s  
95th percentile per-packet one-way delay: 113.756 ms  
Loss rate: 0.89%  
-- Flow 2:  
Average throughput: 36.09 Mbit/s  
95th percentile per-packet one-way delay: 113.011 ms  
Loss rate: 0.94%  
-- Flow 3:  
Average throughput: 28.50 Mbit/s  
95th percentile per-packet one-way delay: 114.239 ms  
Loss rate: 2.69%



Run 3: Report of Indigo-1-32 — Data Link

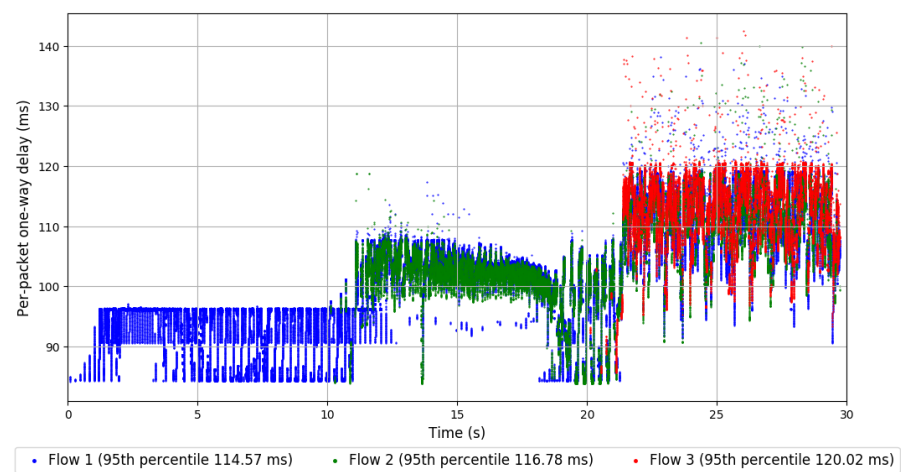
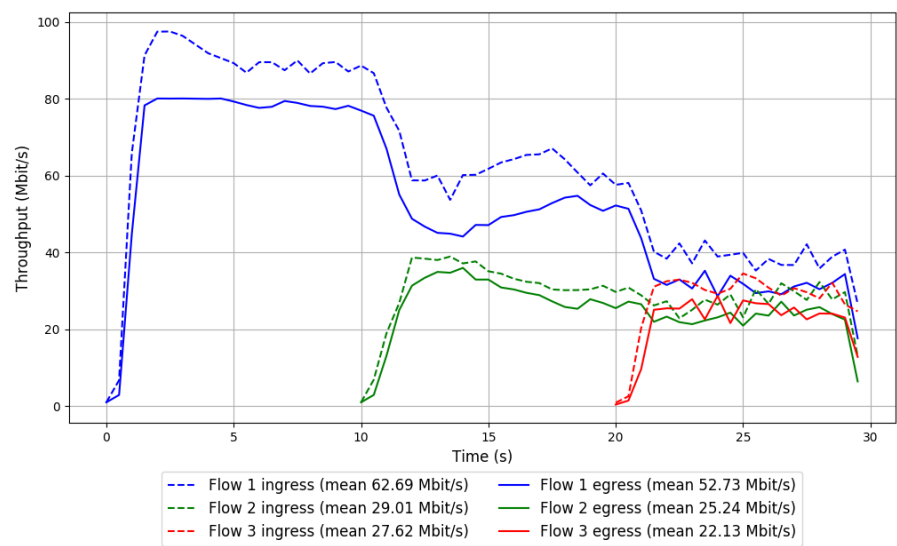


Run 4: Statistics of Indigo-1-32

Start at: 2018-03-21 01:09:10  
End at: 2018-03-21 01:09:40  
Local clock offset: -14.276 ms  
Remote clock offset: 1.935 ms

# Below is generated by plot.py at 2018-03-21 08:05:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.56 Mbit/s  
95th percentile per-packet one-way delay: 116.747 ms  
Loss rate: 16.39%  
-- Flow 1:  
Average throughput: 52.73 Mbit/s  
95th percentile per-packet one-way delay: 114.569 ms  
Loss rate: 16.47%  
-- Flow 2:  
Average throughput: 25.24 Mbit/s  
95th percentile per-packet one-way delay: 116.779 ms  
Loss rate: 13.69%  
-- Flow 3:  
Average throughput: 22.13 Mbit/s  
95th percentile per-packet one-way delay: 120.019 ms  
Loss rate: 21.54%

Run 4: Report of Indigo-1-32 — Data Link

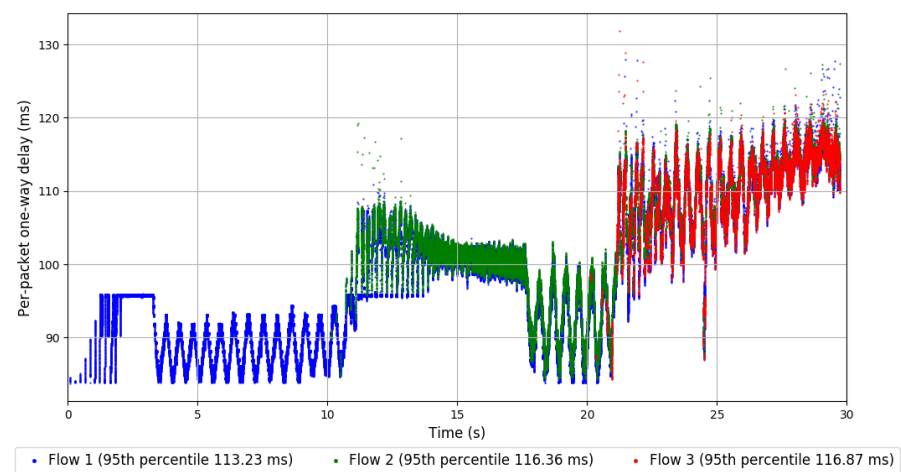
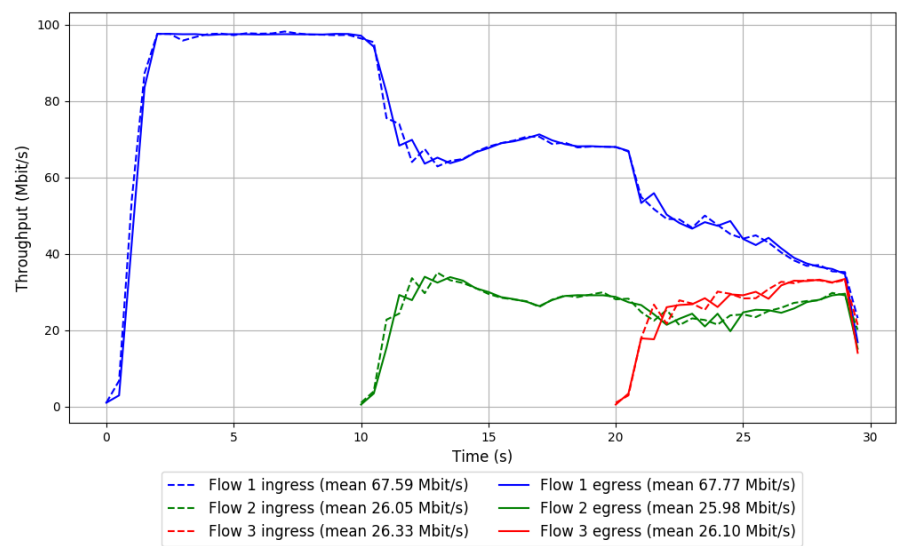


Run 5: Statistics of Indigo-1-32

Start at: 2018-03-21 01:33:05  
End at: 2018-03-21 01:33:35  
Local clock offset: -14.286 ms  
Remote clock offset: 1.159 ms

# Below is generated by plot.py at 2018-03-21 08:06:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.37 Mbit/s  
95th percentile per-packet one-way delay: 115.133 ms  
Loss rate: 0.74%  
-- Flow 1:  
Average throughput: 67.77 Mbit/s  
95th percentile per-packet one-way delay: 113.230 ms  
Loss rate: 0.35%  
-- Flow 2:  
Average throughput: 25.98 Mbit/s  
95th percentile per-packet one-way delay: 116.360 ms  
Loss rate: 1.19%  
-- Flow 3:  
Average throughput: 26.10 Mbit/s  
95th percentile per-packet one-way delay: 116.870 ms  
Loss rate: 2.86%

Run 5: Report of Indigo-1-32 — Data Link



Run 6: Statistics of Indigo-1-32

Start at: 2018-03-21 01:57:00

End at: 2018-03-21 01:57:30

Local clock offset: -4.51 ms

Remote clock offset: 4.07 ms

# Below is generated by plot.py at 2018-03-21 08:06:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.63 Mbit/s

95th percentile per-packet one-way delay: 113.515 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 61.81 Mbit/s

95th percentile per-packet one-way delay: 113.077 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 36.40 Mbit/s

95th percentile per-packet one-way delay: 112.376 ms

Loss rate: 0.81%

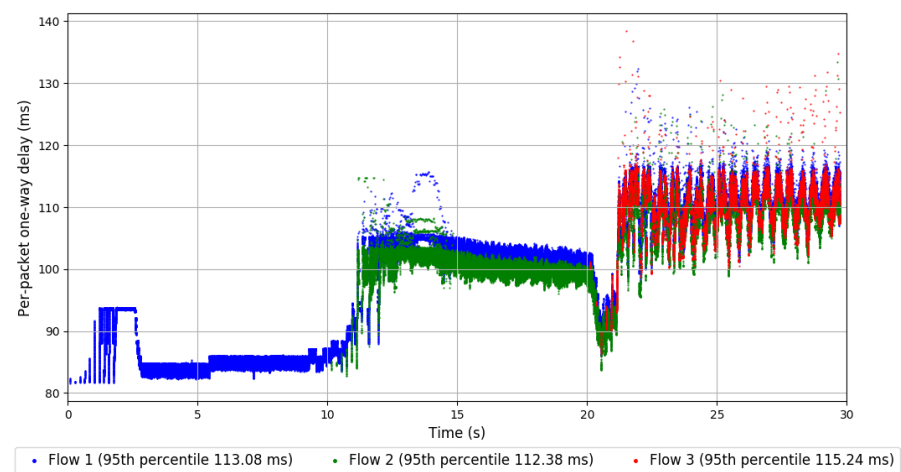
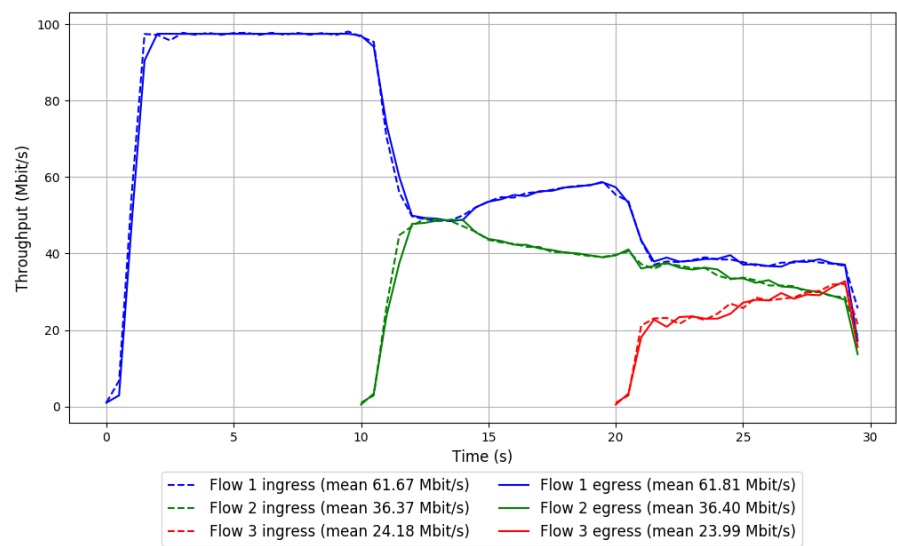
-- Flow 3:

Average throughput: 23.99 Mbit/s

95th percentile per-packet one-way delay: 115.237 ms

Loss rate: 2.79%

Run 6: Report of Indigo-1-32 — Data Link



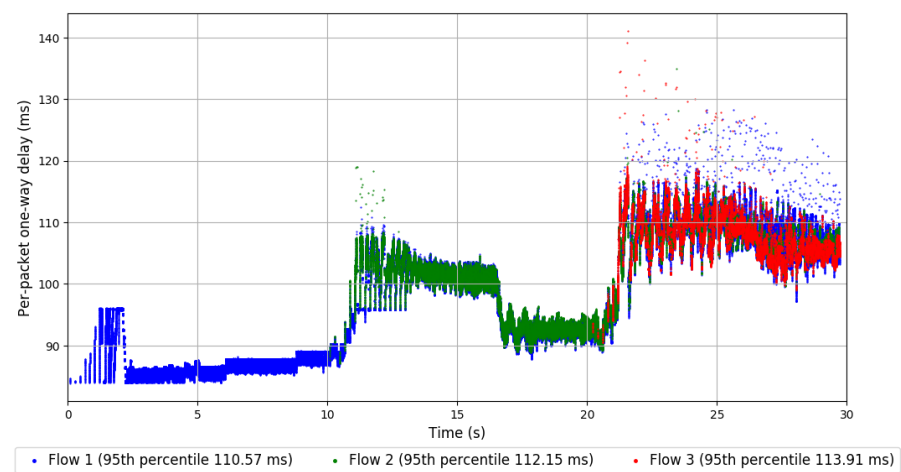
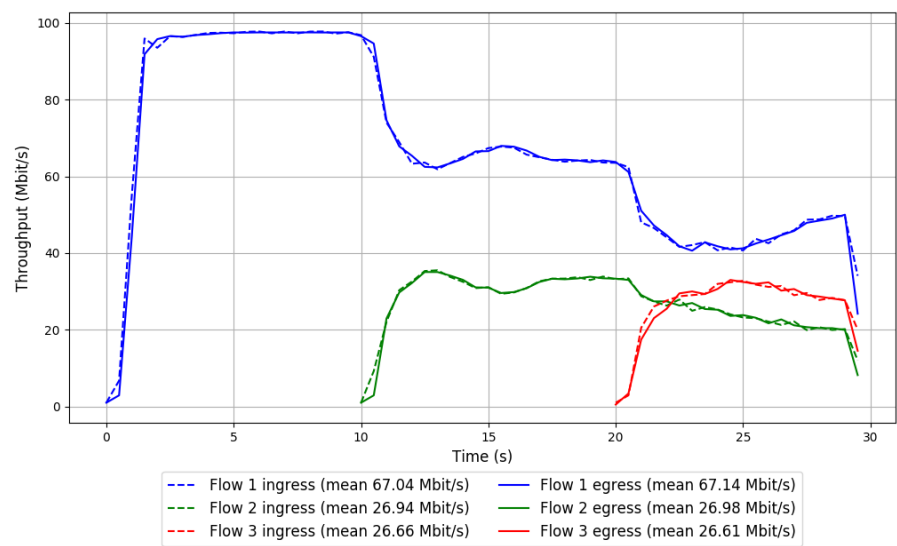
Run 7: Statistics of Indigo-1-32

Start at: 2018-03-21 02:20:56  
End at: 2018-03-21 02:21:26  
Local clock offset: -3.975 ms  
Remote clock offset: -0.575 ms

# Below is generated by plot.py at 2018-03-21 08:06:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.50 Mbit/s  
95th percentile per-packet one-way delay: 111.660 ms  
Loss rate: 0.71%  
-- Flow 1:  
Average throughput: 67.14 Mbit/s  
95th percentile per-packet one-way delay: 110.574 ms  
Loss rate: 0.52%  
-- Flow 2:  
Average throughput: 26.98 Mbit/s  
95th percentile per-packet one-way delay: 112.154 ms  
Loss rate: 0.75%  
-- Flow 3:  
Average throughput: 26.61 Mbit/s  
95th percentile per-packet one-way delay: 113.911 ms  
Loss rate: 2.15%



Run 7: Report of Indigo-1-32 — Data Link

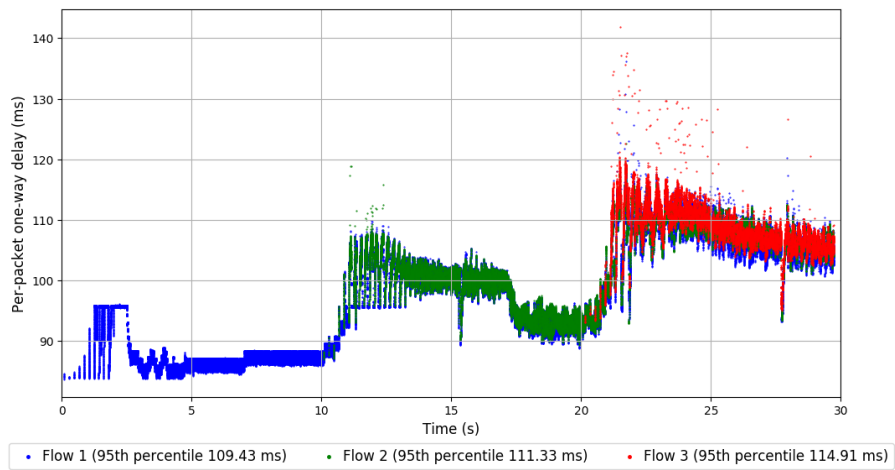
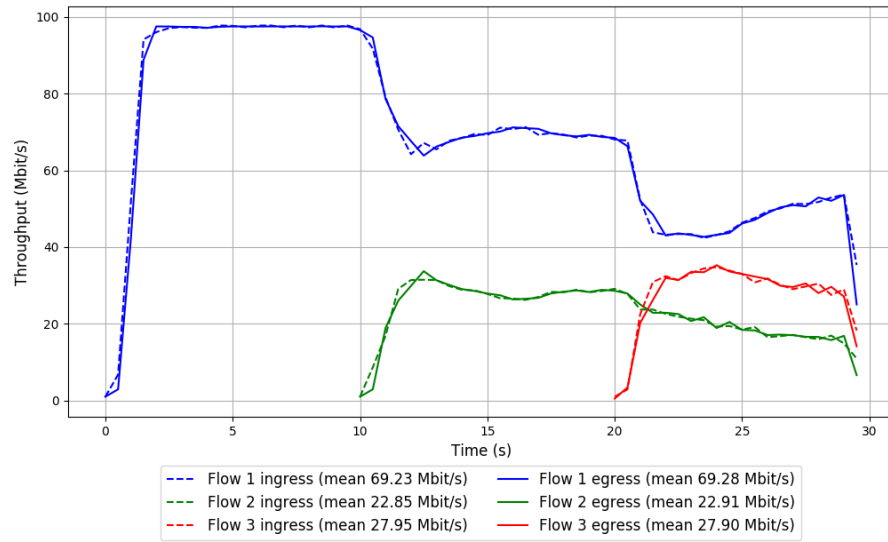


Run 8: Statistics of Indigo-1-32

Start at: 2018-03-21 02:44:49  
End at: 2018-03-21 02:45:19  
Local clock offset: -3.907 ms  
Remote clock offset: -1.468 ms

# Below is generated by plot.py at 2018-03-21 08:06:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.47 Mbit/s  
95th percentile per-packet one-way delay: 111.217 ms  
Loss rate: 0.71%  
-- Flow 1:  
Average throughput: 69.28 Mbit/s  
95th percentile per-packet one-way delay: 109.433 ms  
Loss rate: 0.52%  
-- Flow 2:  
Average throughput: 22.91 Mbit/s  
95th percentile per-packet one-way delay: 111.326 ms  
Loss rate: 0.69%  
-- Flow 3:  
Average throughput: 27.90 Mbit/s  
95th percentile per-packet one-way delay: 114.914 ms  
Loss rate: 2.12%

# Run 8: Report of Indigo-1-32 — Data Link

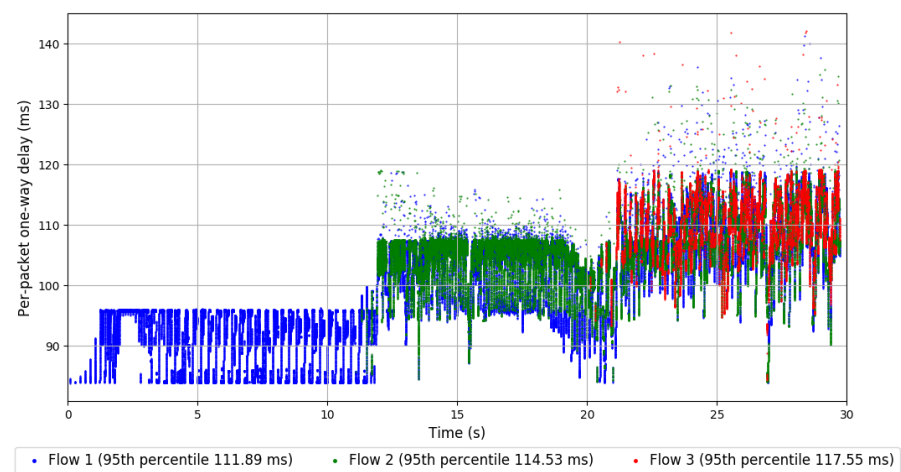
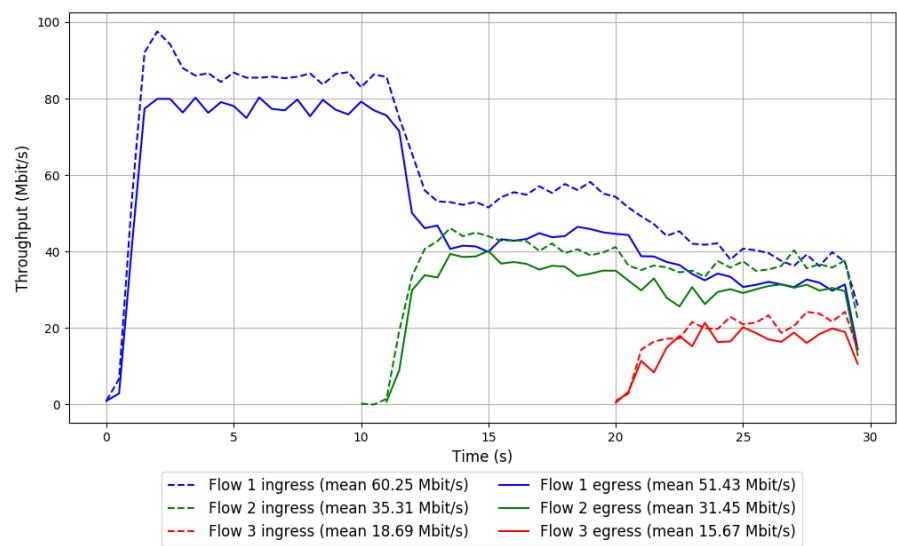


Run 9: Statistics of Indigo-1-32

Start at: 2018-03-21 03:08:44  
End at: 2018-03-21 03:09:14  
Local clock offset: -5.545 ms  
Remote clock offset: -2.311 ms

# Below is generated by plot.py at 2018-03-21 08:06:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.26 Mbit/s  
95th percentile per-packet one-way delay: 113.992 ms  
Loss rate: 15.66%  
-- Flow 1:  
Average throughput: 51.43 Mbit/s  
95th percentile per-packet one-way delay: 111.885 ms  
Loss rate: 15.18%  
-- Flow 2:  
Average throughput: 31.45 Mbit/s  
95th percentile per-packet one-way delay: 114.531 ms  
Loss rate: 16.34%  
-- Flow 3:  
Average throughput: 15.67 Mbit/s  
95th percentile per-packet one-way delay: 117.546 ms  
Loss rate: 17.87%

Run 9: Report of Indigo-1-32 — Data Link



Run 10: Statistics of Indigo-1-32

Start at: 2018-03-21 03:32:47

End at: 2018-03-21 03:33:17

Local clock offset: -5.602 ms

Remote clock offset: 0.602 ms

# Below is generated by plot.py at 2018-03-21 08:06:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.52 Mbit/s

95th percentile per-packet one-way delay: 115.273 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 58.77 Mbit/s

95th percentile per-packet one-way delay: 114.818 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 38.74 Mbit/s

95th percentile per-packet one-way delay: 114.907 ms

Loss rate: 0.95%

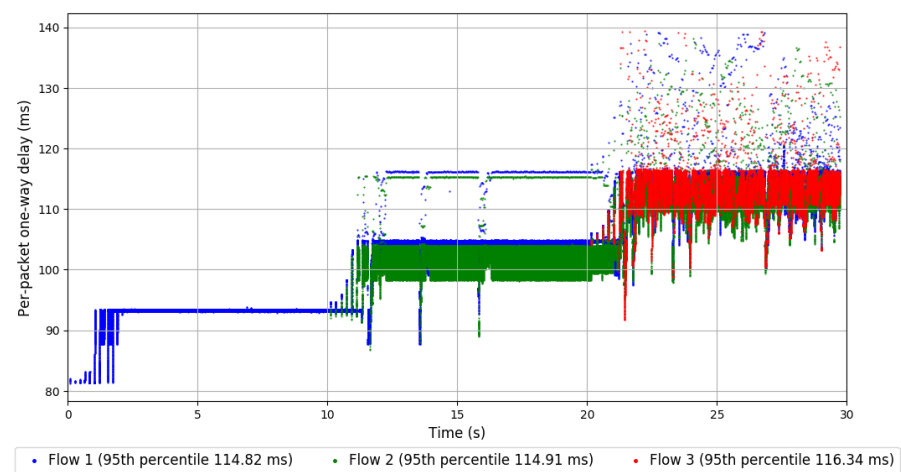
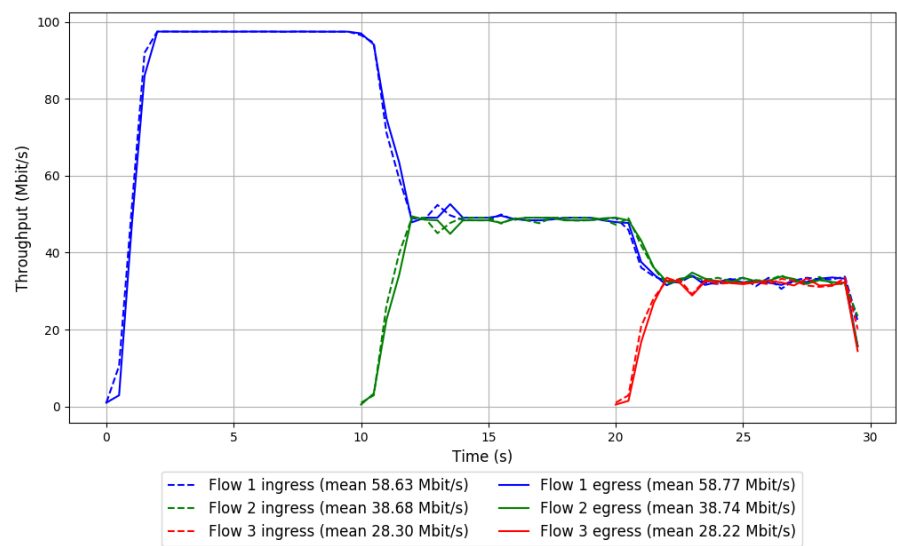
-- Flow 3:

Average throughput: 28.22 Mbit/s

95th percentile per-packet one-way delay: 116.344 ms

Loss rate: 2.42%

Run 10: Report of Indigo-1-32 — Data Link



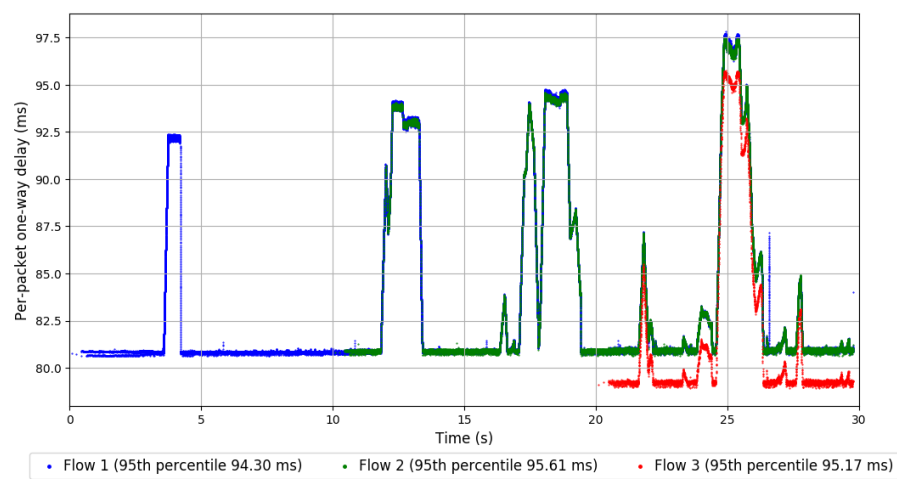
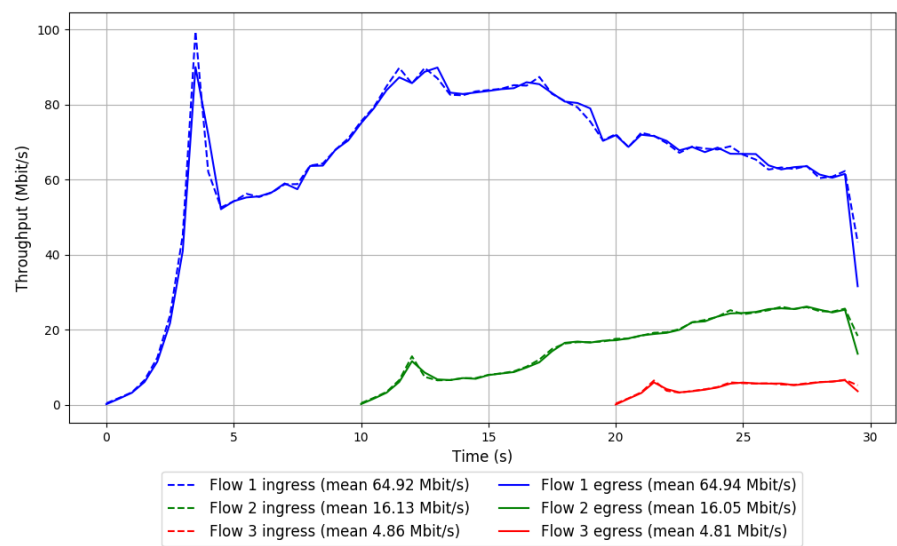
Run 1: Statistics of Vivace-latency

Start at: 2018-03-21 00:00:01  
End at: 2018-03-21 00:00:31  
Local clock offset: -13.575 ms  
Remote clock offset: 7.489 ms

# Below is generated by plot.py at 2018-03-21 08:06:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.15 Mbit/s  
95th percentile per-packet one-way delay: 94.351 ms  
Loss rate: 0.73%  
-- Flow 1:  
Average throughput: 64.94 Mbit/s  
95th percentile per-packet one-way delay: 94.297 ms  
Loss rate: 0.57%  
-- Flow 2:  
Average throughput: 16.05 Mbit/s  
95th percentile per-packet one-way delay: 95.614 ms  
Loss rate: 1.41%  
-- Flow 3:  
Average throughput: 4.81 Mbit/s  
95th percentile per-packet one-way delay: 95.166 ms  
Loss rate: 2.81%



Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-03-21 00:23:54

End at: 2018-03-21 00:24:24

Local clock offset: -14.12 ms

Remote clock offset: 7.392 ms

# Below is generated by plot.py at 2018-03-21 08:07:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 77.54 Mbit/s

95th percentile per-packet one-way delay: 91.838 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 66.90 Mbit/s

95th percentile per-packet one-way delay: 91.827 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 13.85 Mbit/s

95th percentile per-packet one-way delay: 92.219 ms

Loss rate: 1.36%

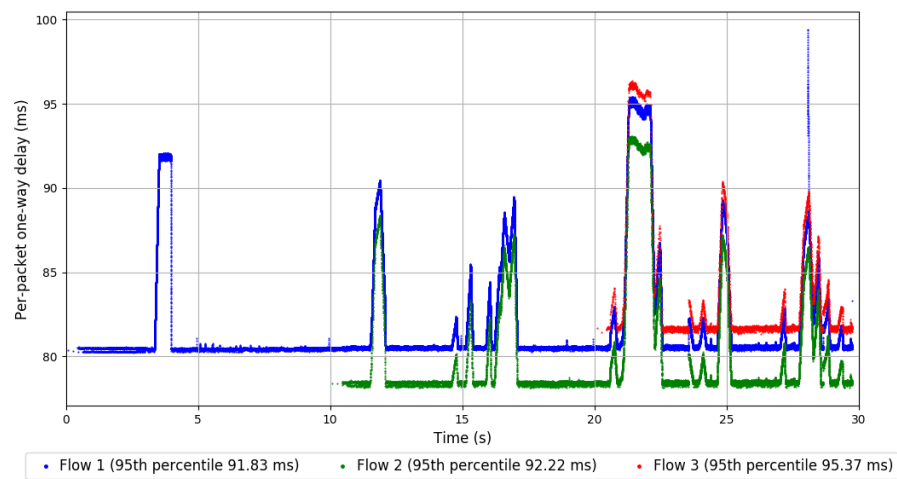
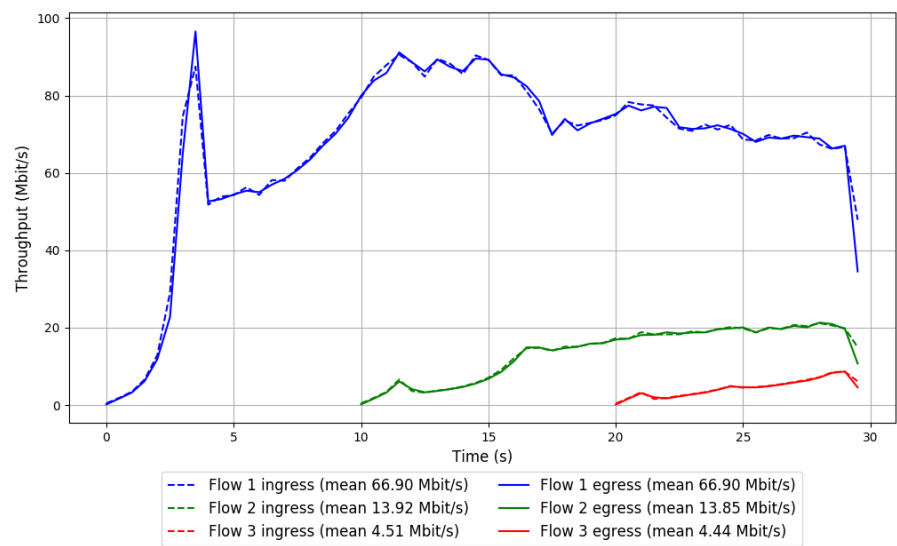
-- Flow 3:

Average throughput: 4.44 Mbit/s

95th percentile per-packet one-way delay: 95.370 ms

Loss rate: 3.38%

Run 2: Report of Vivace-latency — Data Link

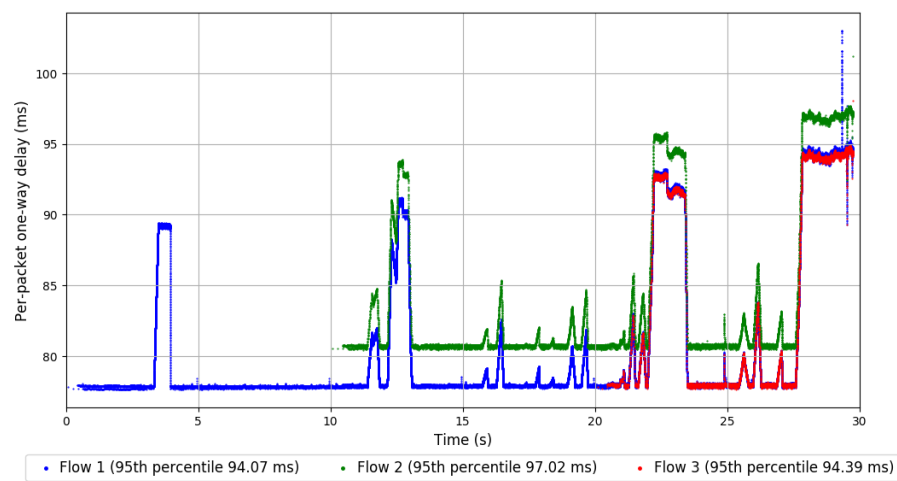
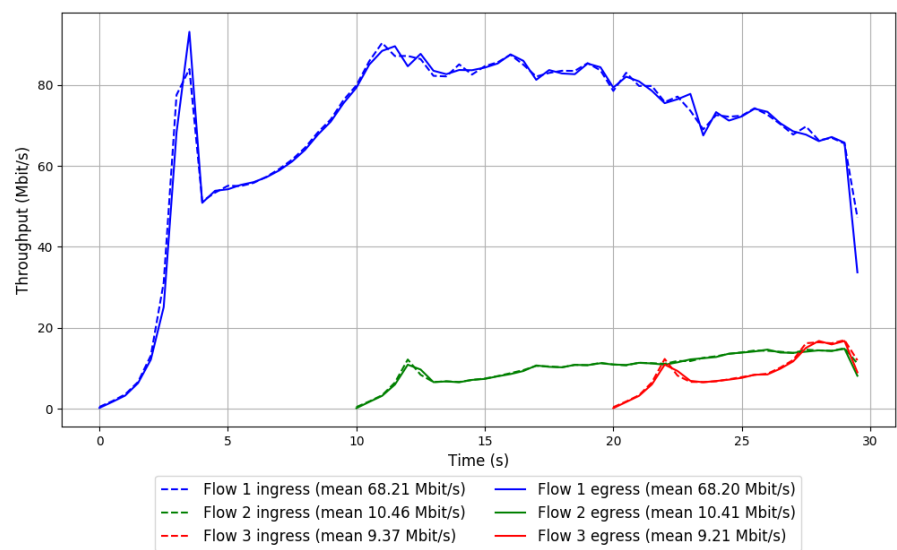


Run 3: Statistics of Vivace-latency

Start at: 2018-03-21 00:47:46  
End at: 2018-03-21 00:48:16  
Local clock offset: -14.182 ms  
Remote clock offset: 7.465 ms

# Below is generated by plot.py at 2018-03-21 08:07:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.09 Mbit/s  
95th percentile per-packet one-way delay: 94.266 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 68.20 Mbit/s  
95th percentile per-packet one-way delay: 94.069 ms  
Loss rate: 0.63%  
-- Flow 2:  
Average throughput: 10.41 Mbit/s  
95th percentile per-packet one-way delay: 97.022 ms  
Loss rate: 1.45%  
-- Flow 3:  
Average throughput: 9.21 Mbit/s  
95th percentile per-packet one-way delay: 94.389 ms  
Loss rate: 3.44%

Run 3: Report of Vivace-latency — Data Link

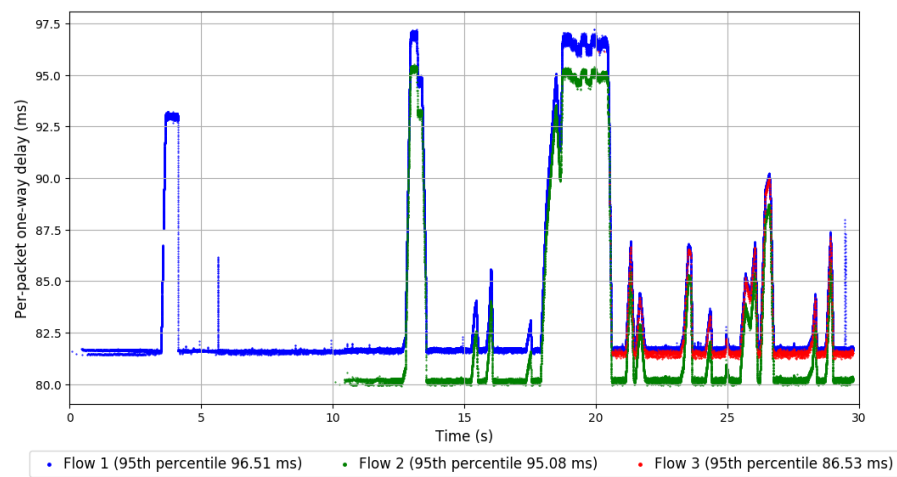
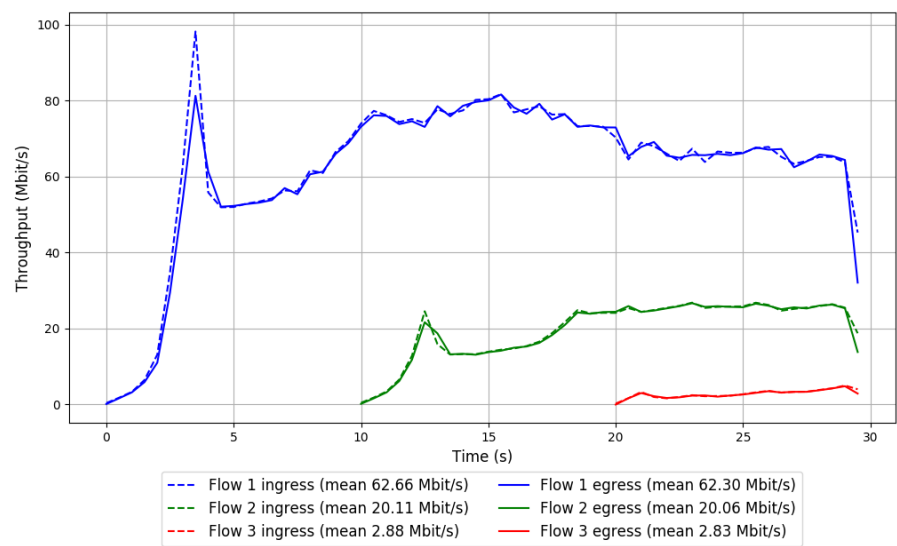


Run 4: Statistics of Vivace-latency

Start at: 2018-03-21 01:11:47  
End at: 2018-03-21 01:12:17  
Local clock offset: -14.224 ms  
Remote clock offset: 5.888 ms

# Below is generated by plot.py at 2018-03-21 08:07:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.52 Mbit/s  
95th percentile per-packet one-way delay: 96.377 ms  
Loss rate: 1.21%  
-- Flow 1:  
Average throughput: 62.30 Mbit/s  
95th percentile per-packet one-way delay: 96.509 ms  
Loss rate: 1.19%  
-- Flow 2:  
Average throughput: 20.06 Mbit/s  
95th percentile per-packet one-way delay: 95.084 ms  
Loss rate: 1.16%  
-- Flow 3:  
Average throughput: 2.83 Mbit/s  
95th percentile per-packet one-way delay: 86.533 ms  
Loss rate: 3.60%

Run 4: Report of Vivace-latency — Data Link



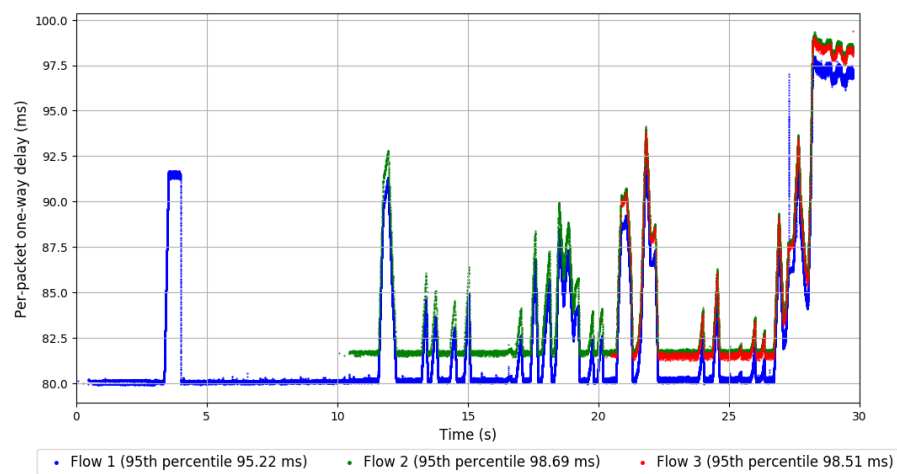
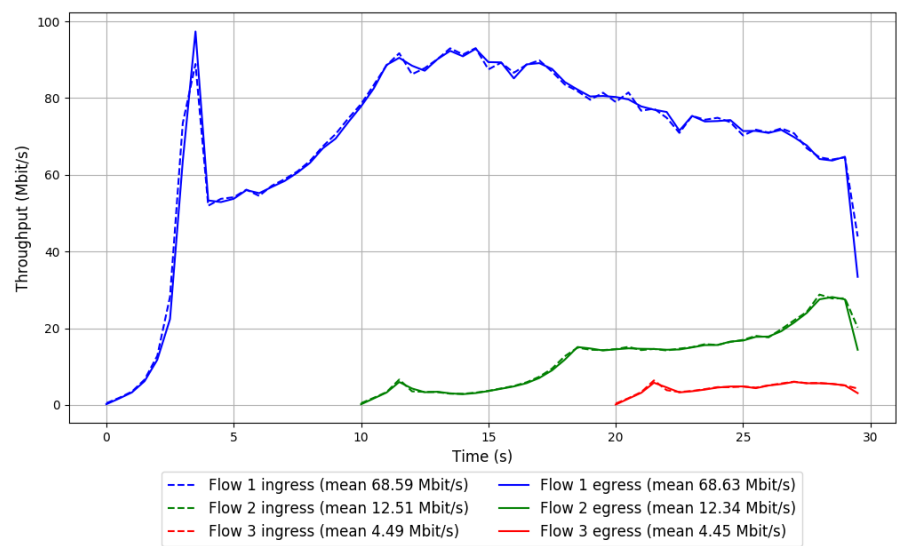
Run 5: Statistics of Vivace-latency

Start at: 2018-03-21 01:35:43  
End at: 2018-03-21 01:36:13  
Local clock offset: -14.294 ms  
Remote clock offset: 4.983 ms

# Below is generated by plot.py at 2018-03-21 08:07:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.25 Mbit/s  
95th percentile per-packet one-way delay: 97.073 ms  
Loss rate: 0.78%  
-- Flow 1:  
Average throughput: 68.63 Mbit/s  
95th percentile per-packet one-way delay: 95.223 ms  
Loss rate: 0.56%  
-- Flow 2:  
Average throughput: 12.34 Mbit/s  
95th percentile per-packet one-way delay: 98.686 ms  
Loss rate: 2.26%  
-- Flow 3:  
Average throughput: 4.45 Mbit/s  
95th percentile per-packet one-way delay: 98.507 ms  
Loss rate: 2.62%



Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-03-21 01:59:38

End at: 2018-03-21 02:00:08

Local clock offset: -3.895 ms

Remote clock offset: 0.147 ms

# Below is generated by plot.py at 2018-03-21 08:07:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 74.89 Mbit/s

95th percentile per-packet one-way delay: 99.316 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 63.41 Mbit/s

95th percentile per-packet one-way delay: 99.001 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 14.84 Mbit/s

95th percentile per-packet one-way delay: 100.252 ms

Loss rate: 1.58%

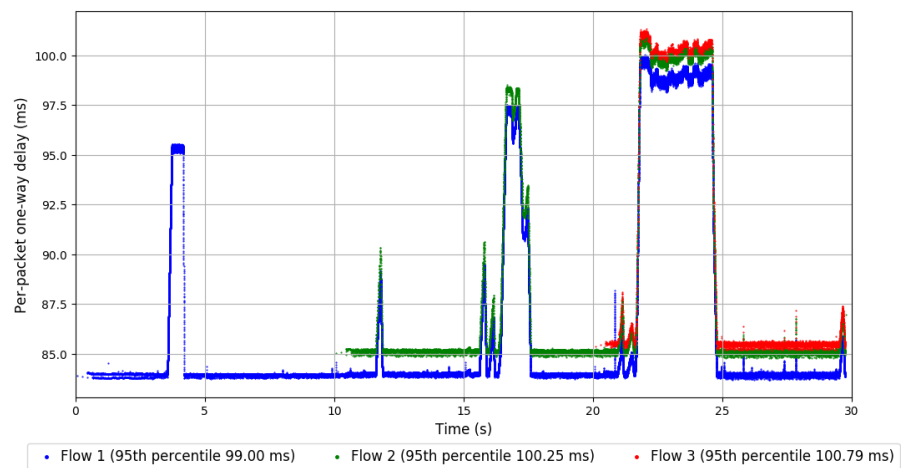
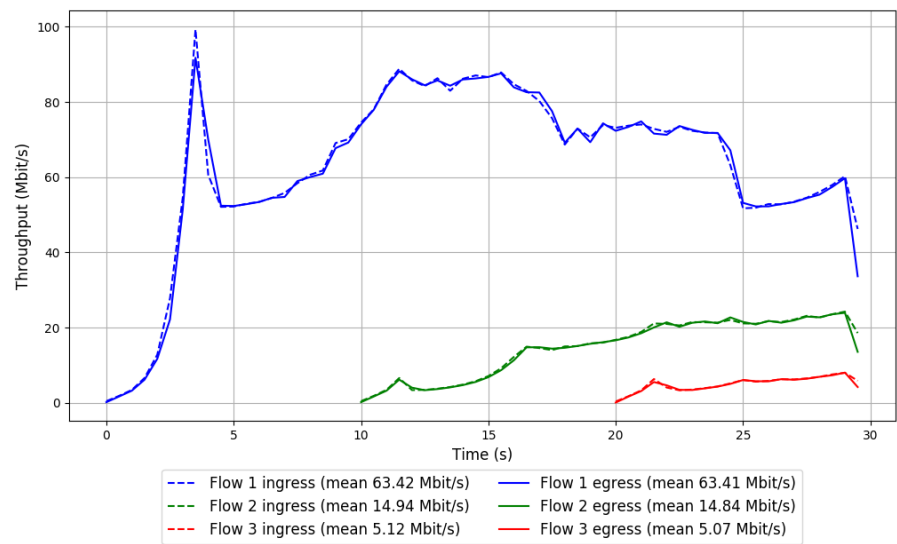
-- Flow 3:

Average throughput: 5.07 Mbit/s

95th percentile per-packet one-way delay: 100.788 ms

Loss rate: 2.98%

Run 6: Report of Vivace-latency — Data Link

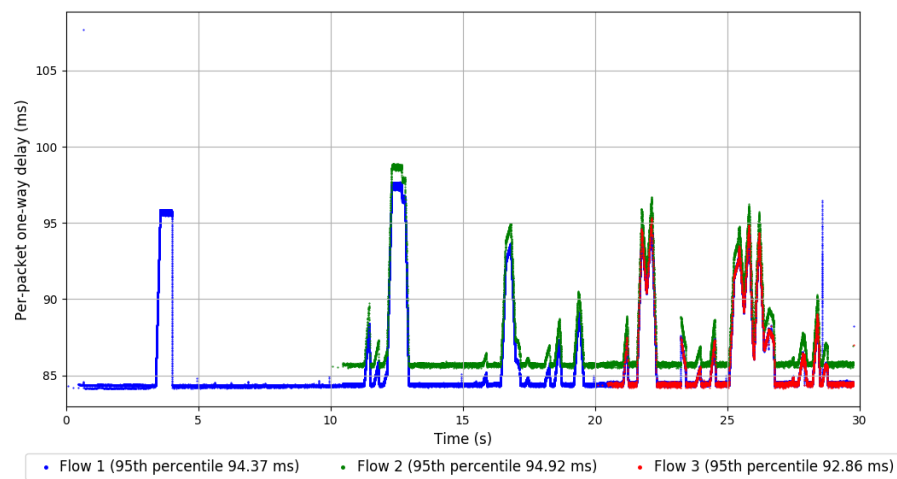
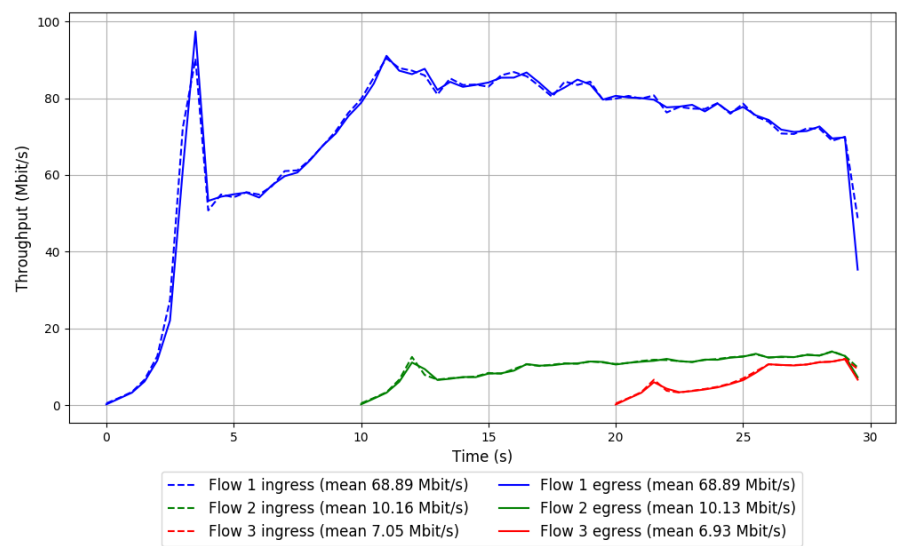


Run 7: Statistics of Vivace-latency

Start at: 2018-03-21 02:23:34  
End at: 2018-03-21 02:24:04  
Local clock offset: -4.252 ms  
Remote clock offset: -0.709 ms

# Below is generated by plot.py at 2018-03-21 08:07:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.86 Mbit/s  
95th percentile per-packet one-way delay: 94.383 ms  
Loss rate: 0.74%  
-- Flow 1:  
Average throughput: 68.89 Mbit/s  
95th percentile per-packet one-way delay: 94.374 ms  
Loss rate: 0.60%  
-- Flow 2:  
Average throughput: 10.13 Mbit/s  
95th percentile per-packet one-way delay: 94.916 ms  
Loss rate: 1.22%  
-- Flow 3:  
Average throughput: 6.93 Mbit/s  
95th percentile per-packet one-way delay: 92.863 ms  
Loss rate: 3.45%

Run 7: Report of Vivace-latency — Data Link

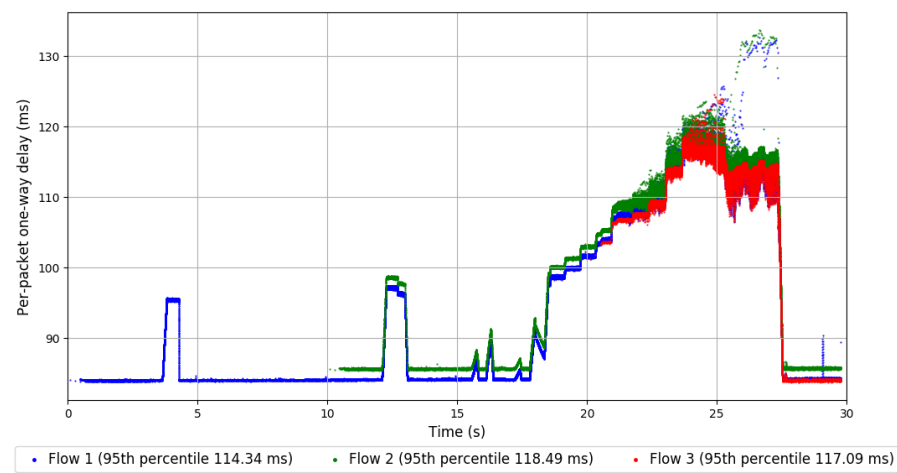
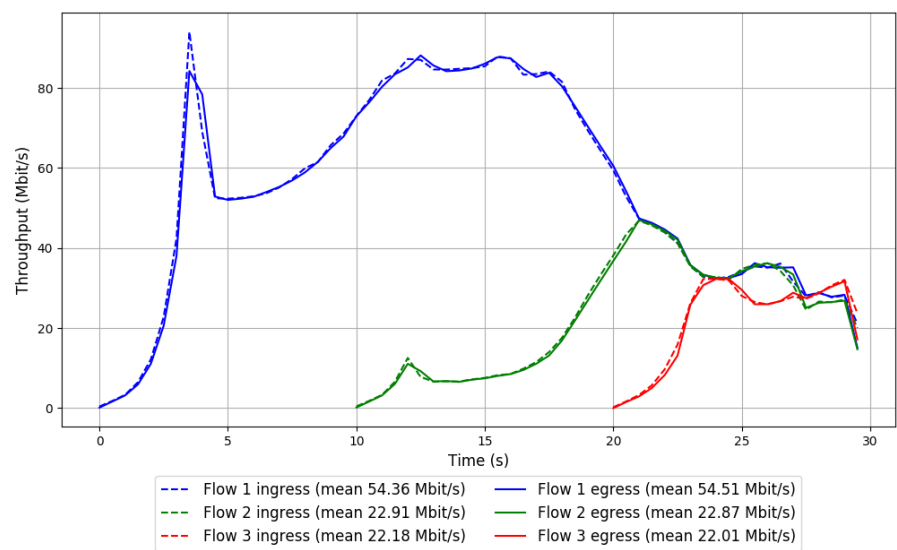


Run 8: Statistics of Vivace-latency

Start at: 2018-03-21 02:47:27  
End at: 2018-03-21 02:47:57  
Local clock offset: -4.101 ms  
Remote clock offset: -1.533 ms

# Below is generated by plot.py at 2018-03-21 08:08:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.82 Mbit/s  
95th percentile per-packet one-way delay: 116.777 ms  
Loss rate: 0.72%  
-- Flow 1:  
Average throughput: 54.51 Mbit/s  
95th percentile per-packet one-way delay: 114.339 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 22.87 Mbit/s  
95th percentile per-packet one-way delay: 118.488 ms  
Loss rate: 1.12%  
-- Flow 3:  
Average throughput: 22.01 Mbit/s  
95th percentile per-packet one-way delay: 117.087 ms  
Loss rate: 2.76%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-03-21 03:11:31

End at: 2018-03-21 03:12:01

Local clock offset: -5.612 ms

Remote clock offset: 1.455 ms

# Below is generated by plot.py at 2018-03-21 08:08:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 77.48 Mbit/s

95th percentile per-packet one-way delay: 93.313 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 67.02 Mbit/s

95th percentile per-packet one-way delay: 93.211 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 13.79 Mbit/s

95th percentile per-packet one-way delay: 96.078 ms

Loss rate: 1.75%

-- Flow 3:

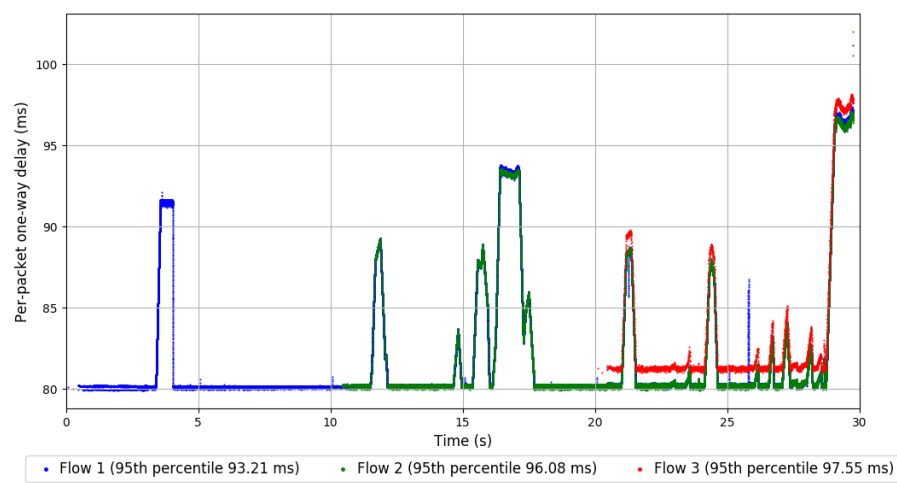
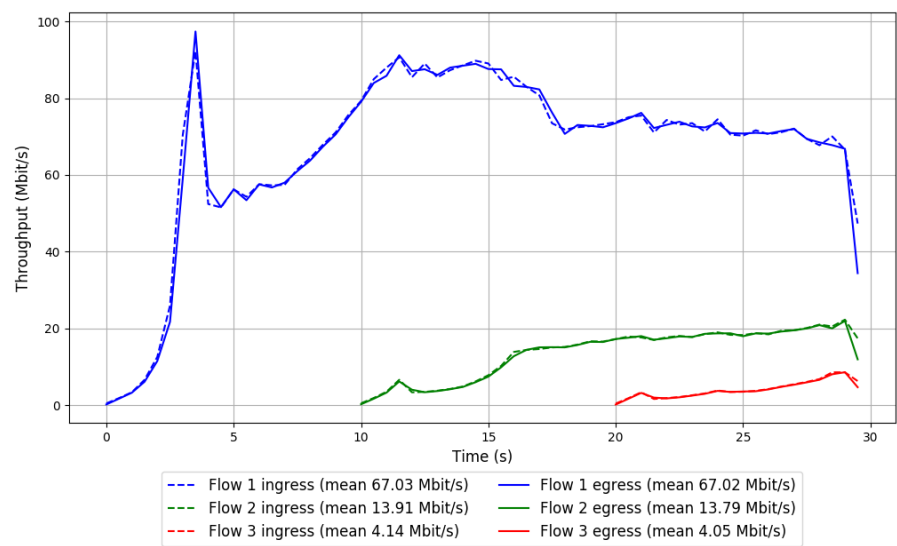
Average throughput: 4.05 Mbit/s

95th percentile per-packet one-way delay: 97.545 ms

Loss rate: 4.05%



Run 9: Report of Vivace-latency — Data Link

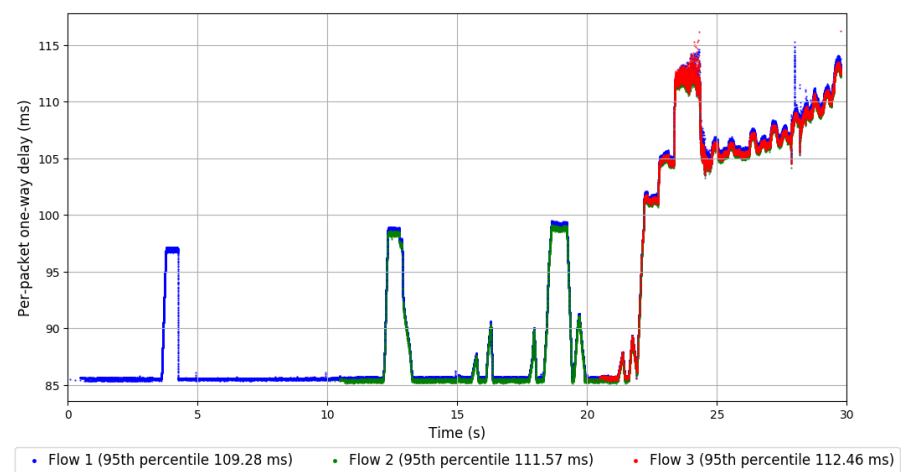
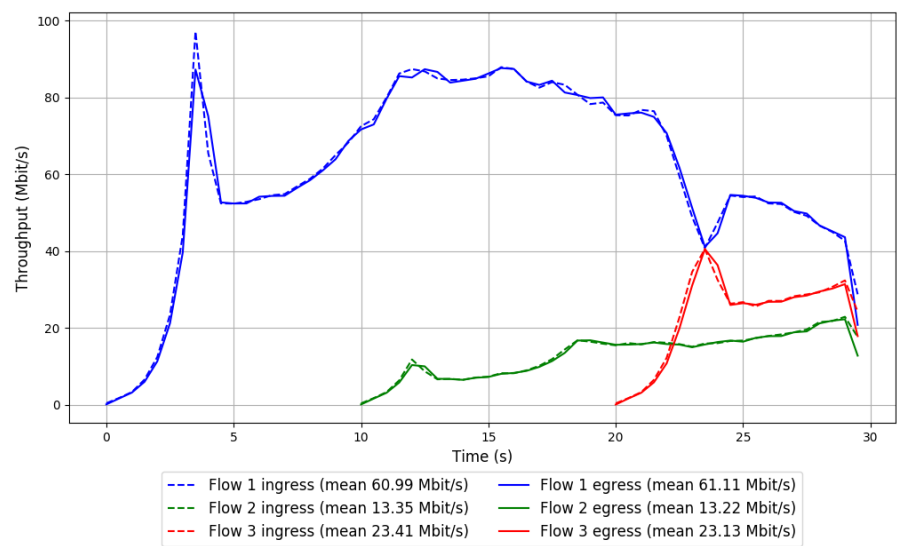


Run 10: Statistics of Vivace-latency

Start at: 2018-03-21 03:35:25  
End at: 2018-03-21 03:35:55  
Local clock offset: -5.591 ms  
Remote clock offset: -3.333 ms

# Below is generated by plot.py at 2018-03-21 08:08:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.40 Mbit/s  
95th percentile per-packet one-way delay: 111.242 ms  
Loss rate: 0.89%  
-- Flow 1:  
Average throughput: 61.11 Mbit/s  
95th percentile per-packet one-way delay: 109.283 ms  
Loss rate: 0.47%  
-- Flow 2:  
Average throughput: 13.22 Mbit/s  
95th percentile per-packet one-way delay: 111.567 ms  
Loss rate: 1.94%  
-- Flow 3:  
Average throughput: 23.13 Mbit/s  
95th percentile per-packet one-way delay: 112.462 ms  
Loss rate: 3.04%

Run 10: Report of Vivace-latency — Data Link

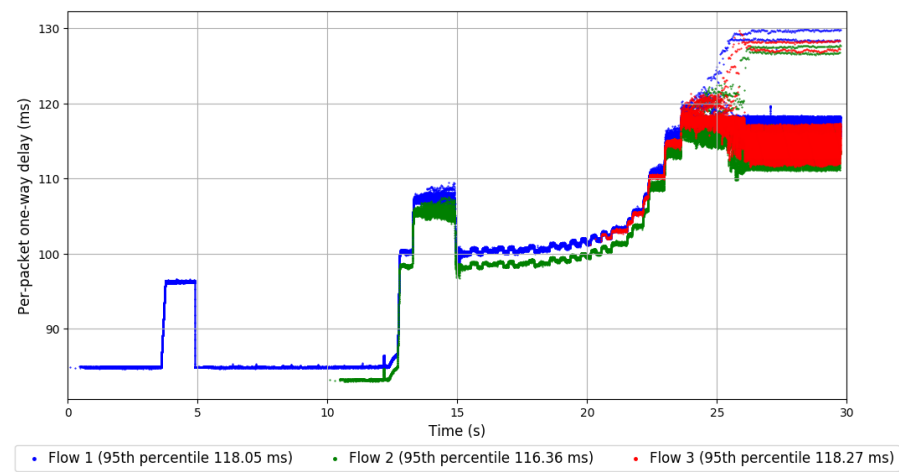
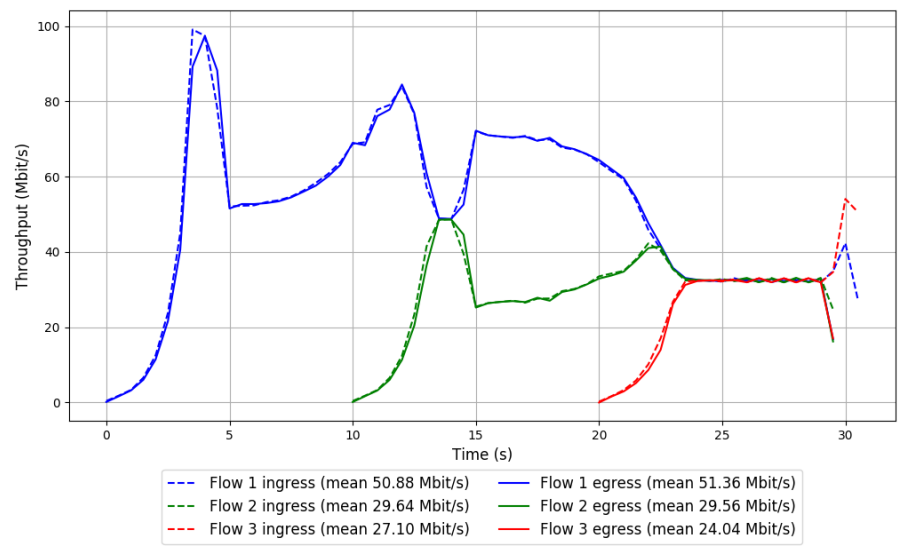


Run 1: Statistics of Vivace-loss

Start at: 2018-03-21 00:01:23  
End at: 2018-03-21 00:01:53  
Local clock offset: -13.613 ms  
Remote clock offset: 3.426 ms

# Below is generated by plot.py at 2018-03-21 08:08:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.76 Mbit/s  
95th percentile per-packet one-way delay: 117.991 ms  
Loss rate: 4.91%  
-- Flow 1:  
Average throughput: 51.36 Mbit/s  
95th percentile per-packet one-way delay: 118.051 ms  
Loss rate: 3.03%  
-- Flow 2:  
Average throughput: 29.56 Mbit/s  
95th percentile per-packet one-way delay: 116.362 ms  
Loss rate: 1.37%  
-- Flow 3:  
Average throughput: 24.04 Mbit/s  
95th percentile per-packet one-way delay: 118.266 ms  
Loss rate: 21.88%

Run 1: Report of Vivace-loss — Data Link

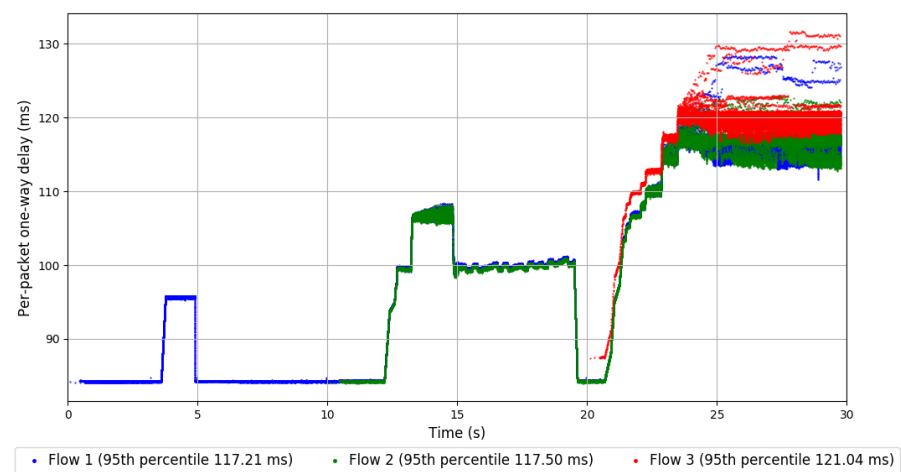
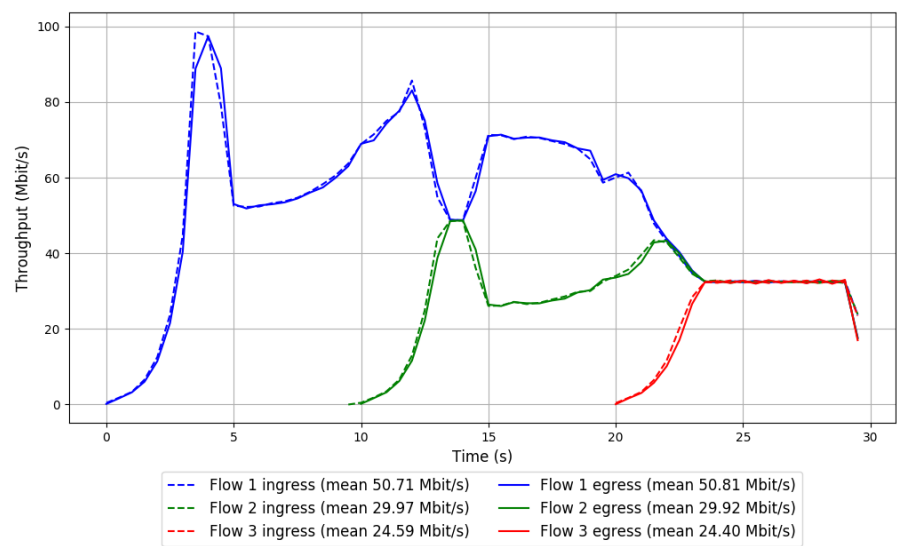


Run 2: Statistics of Vivace-loss

Start at: 2018-03-21 00:25:15  
End at: 2018-03-21 00:25:45  
Local clock offset: -14.169 ms  
Remote clock offset: 1.724 ms

# Below is generated by plot.py at 2018-03-21 08:08:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.59 Mbit/s  
95th percentile per-packet one-way delay: 120.126 ms  
Loss rate: 0.88%  
-- Flow 1:  
Average throughput: 50.81 Mbit/s  
95th percentile per-packet one-way delay: 117.211 ms  
Loss rate: 0.46%  
-- Flow 2:  
Average throughput: 29.92 Mbit/s  
95th percentile per-packet one-way delay: 117.495 ms  
Loss rate: 1.14%  
-- Flow 3:  
Average throughput: 24.40 Mbit/s  
95th percentile per-packet one-way delay: 121.038 ms  
Loss rate: 2.89%

Run 2: Report of Vivace-loss — Data Link



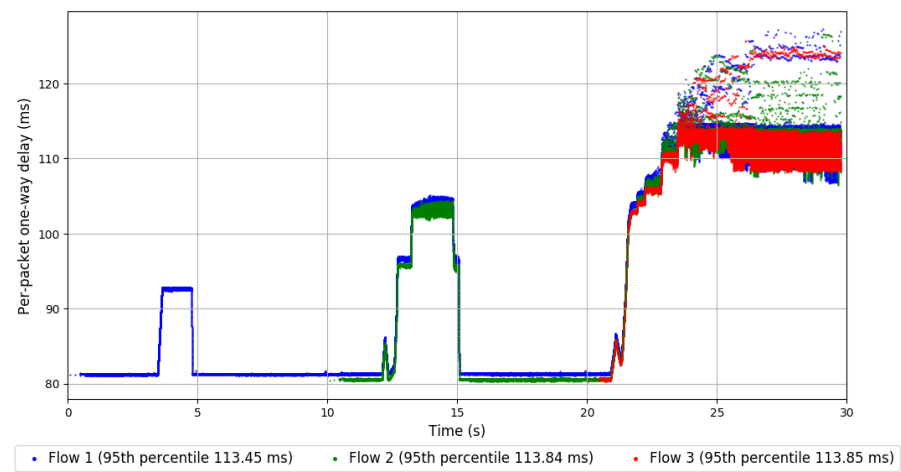
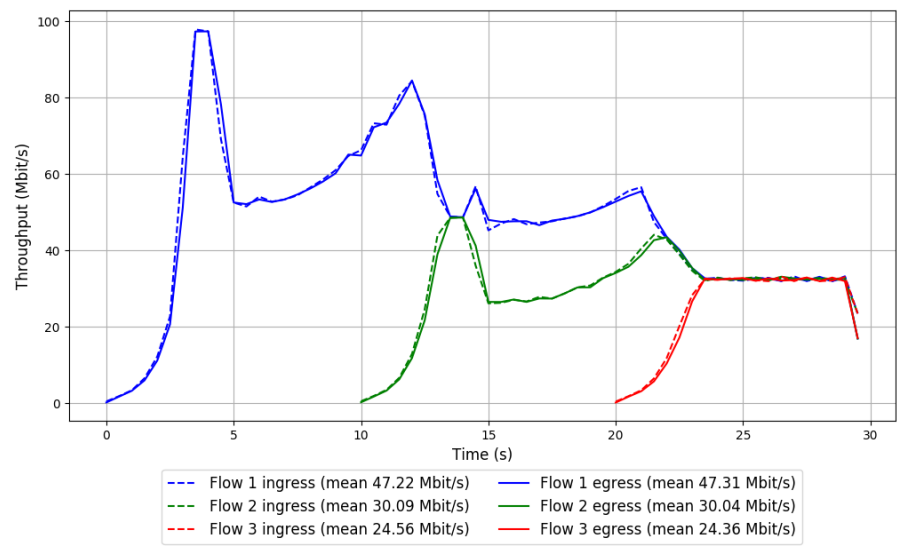
Run 3: Statistics of Vivace-loss

Start at: 2018-03-21 00:49:07  
End at: 2018-03-21 00:49:37  
Local clock offset: -14.176 ms  
Remote clock offset: 5.68 ms

# Below is generated by plot.py at 2018-03-21 08:08:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.15 Mbit/s  
95th percentile per-packet one-way delay: 113.802 ms  
Loss rate: 0.93%  
-- Flow 1:  
Average throughput: 47.31 Mbit/s  
95th percentile per-packet one-way delay: 113.455 ms  
Loss rate: 0.50%  
-- Flow 2:  
Average throughput: 30.04 Mbit/s  
95th percentile per-packet one-way delay: 113.837 ms  
Loss rate: 1.13%  
-- Flow 3:  
Average throughput: 24.36 Mbit/s  
95th percentile per-packet one-way delay: 113.851 ms  
Loss rate: 2.90%



Run 3: Report of Vivace-loss — Data Link

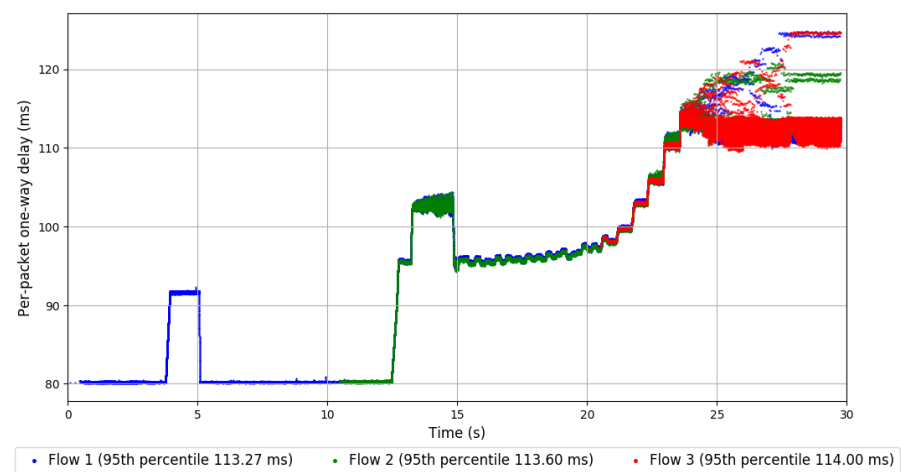
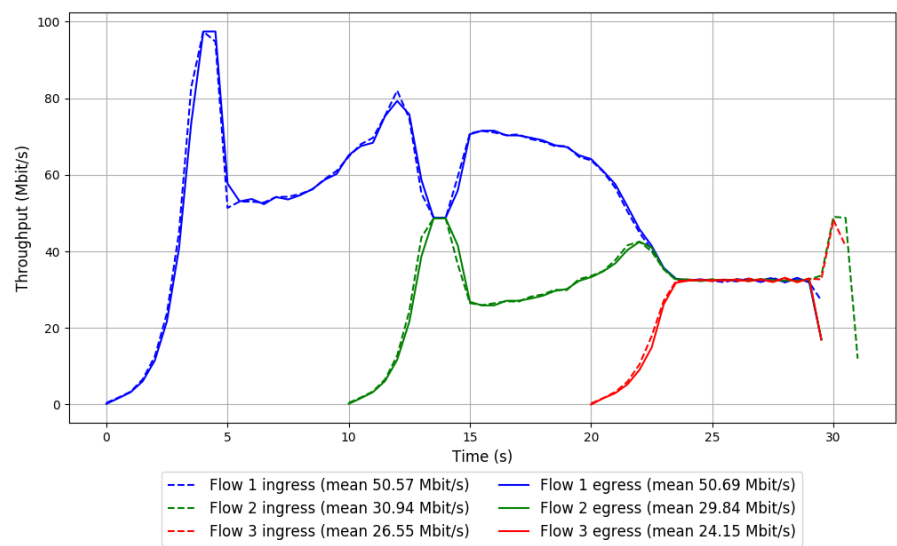


Run 4: Statistics of Vivace-loss

Start at: 2018-03-21 01:13:08  
End at: 2018-03-21 01:13:38  
Local clock offset: -14.234 ms  
Remote clock offset: 5.665 ms

# Below is generated by plot.py at 2018-03-21 08:08:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.30 Mbit/s  
95th percentile per-packet one-way delay: 113.565 ms  
Loss rate: 5.38%  
-- Flow 1:  
Average throughput: 50.69 Mbit/s  
95th percentile per-packet one-way delay: 113.270 ms  
Loss rate: 0.58%  
-- Flow 2:  
Average throughput: 29.84 Mbit/s  
95th percentile per-packet one-way delay: 113.600 ms  
Loss rate: 10.24%  
-- Flow 3:  
Average throughput: 24.15 Mbit/s  
95th percentile per-packet one-way delay: 114.002 ms  
Loss rate: 19.46%

Run 4: Report of Vivace-loss — Data Link

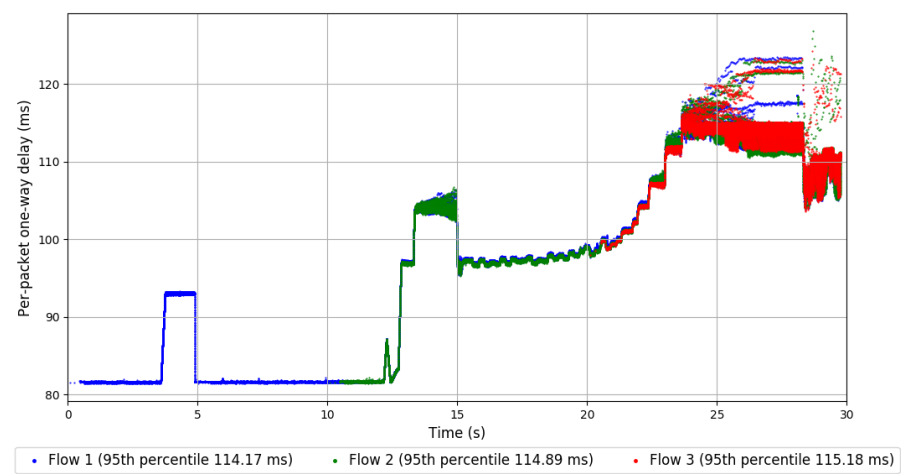
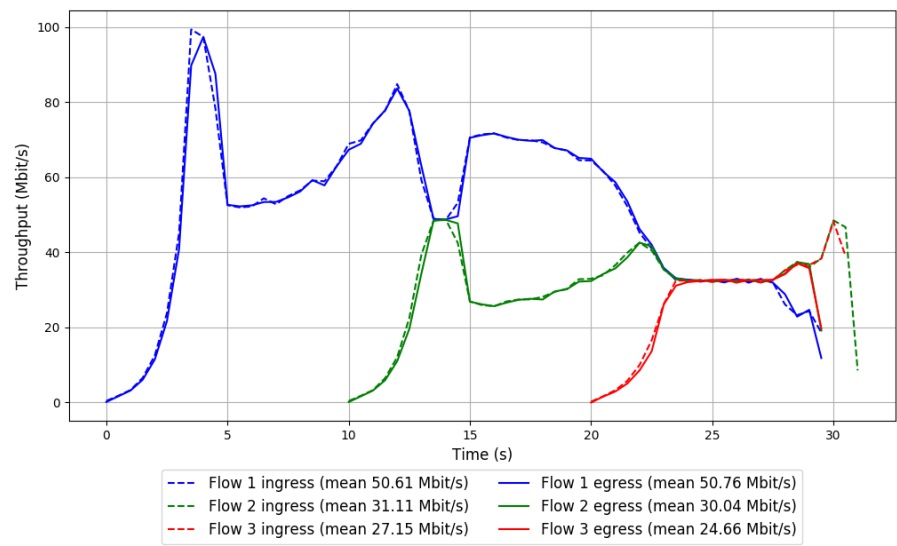


Run 5: Statistics of Vivace-loss

Start at: 2018-03-21 01:37:04  
End at: 2018-03-21 01:37:34  
Local clock offset: -14.291 ms  
Remote clock offset: 4.941 ms

# Below is generated by plot.py at 2018-03-21 08:09:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.68 Mbit/s  
95th percentile per-packet one-way delay: 114.811 ms  
Loss rate: 5.21%  
-- Flow 1:  
Average throughput: 50.76 Mbit/s  
95th percentile per-packet one-way delay: 114.168 ms  
Loss rate: 0.39%  
-- Flow 2:  
Average throughput: 30.04 Mbit/s  
95th percentile per-packet one-way delay: 114.886 ms  
Loss rate: 9.96%  
-- Flow 3:  
Average throughput: 24.66 Mbit/s  
95th percentile per-packet one-way delay: 115.176 ms  
Loss rate: 19.38%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-03-21 02:01:00

End at: 2018-03-21 02:01:30

Local clock offset: -3.572 ms

Remote clock offset: 0.102 ms

# Below is generated by plot.py at 2018-03-21 08:09:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 78.43 Mbit/s

95th percentile per-packet one-way delay: 118.400 ms

Loss rate: 4.24%

-- Flow 1:

Average throughput: 50.68 Mbit/s

95th percentile per-packet one-way delay: 117.475 ms

Loss rate: 2.65%

-- Flow 2:

Average throughput: 30.03 Mbit/s

95th percentile per-packet one-way delay: 118.340 ms

Loss rate: 8.44%

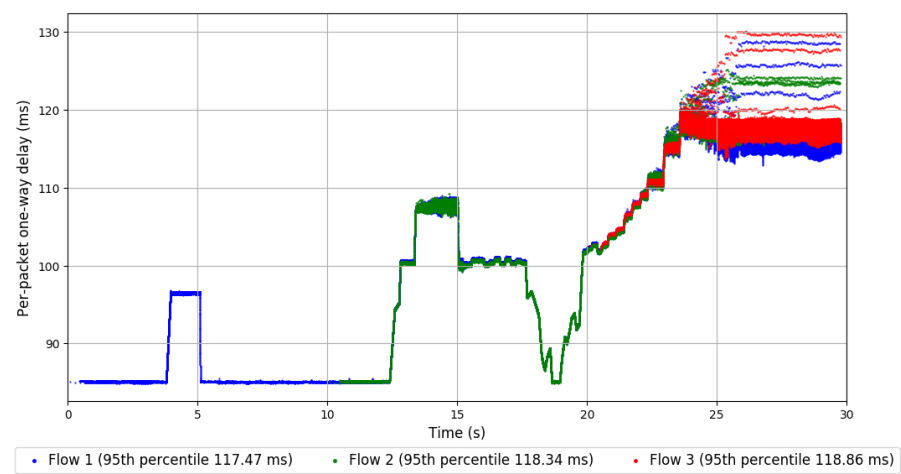
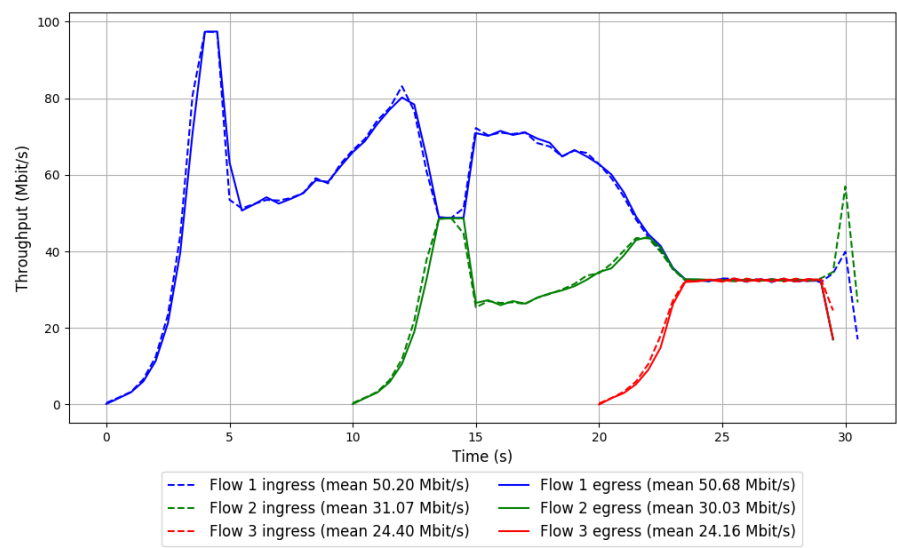
-- Flow 3:

Average throughput: 24.16 Mbit/s

95th percentile per-packet one-way delay: 118.863 ms

Loss rate: 3.20%

Run 6: Report of Vivace-loss — Data Link



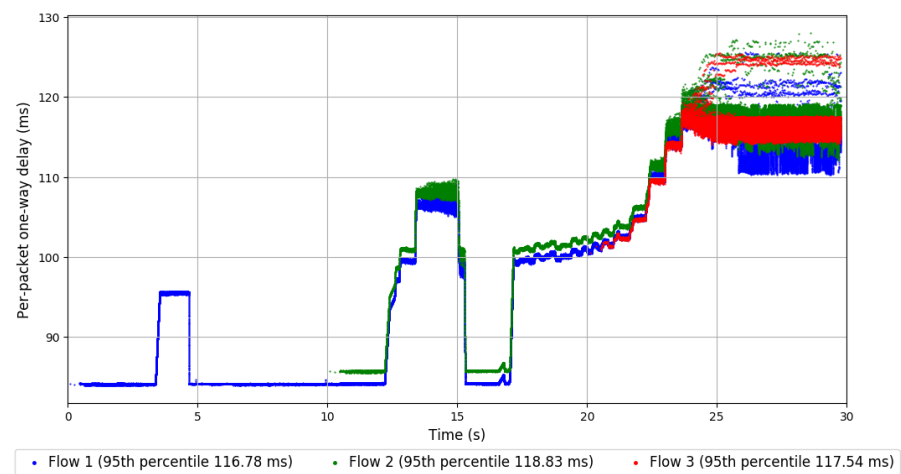
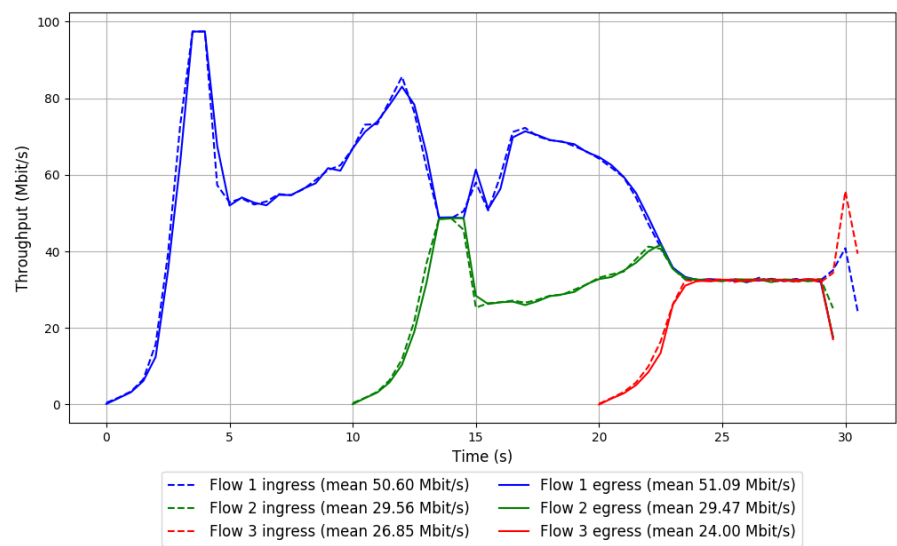
Run 7: Statistics of Vivace-loss

Start at: 2018-03-21 02:24:55  
End at: 2018-03-21 02:25:25  
Local clock offset: -4.364 ms  
Remote clock offset: -0.789 ms

# Below is generated by plot.py at 2018-03-21 08:09:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.42 Mbit/s  
95th percentile per-packet one-way delay: 117.598 ms  
Loss rate: 4.62%  
-- Flow 1:  
Average throughput: 51.09 Mbit/s  
95th percentile per-packet one-way delay: 116.780 ms  
Loss rate: 2.89%  
-- Flow 2:  
Average throughput: 29.47 Mbit/s  
95th percentile per-packet one-way delay: 118.829 ms  
Loss rate: 1.32%  
-- Flow 3:  
Average throughput: 24.00 Mbit/s  
95th percentile per-packet one-way delay: 117.542 ms  
Loss rate: 20.54%



Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-03-21 02:48:48

End at: 2018-03-21 02:49:18

Local clock offset: -4.277 ms

Remote clock offset: 2.222 ms

# Below is generated by plot.py at 2018-03-21 08:09:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 67.15 Mbit/s

95th percentile per-packet one-way delay: 80.577 ms

Loss rate: 2.43%

-- Flow 1:

Average throughput: 61.52 Mbit/s

95th percentile per-packet one-way delay: 80.518 ms

Loss rate: 2.33%

-- Flow 2:

Average throughput: 6.63 Mbit/s

95th percentile per-packet one-way delay: 80.205 ms

Loss rate: 3.46%

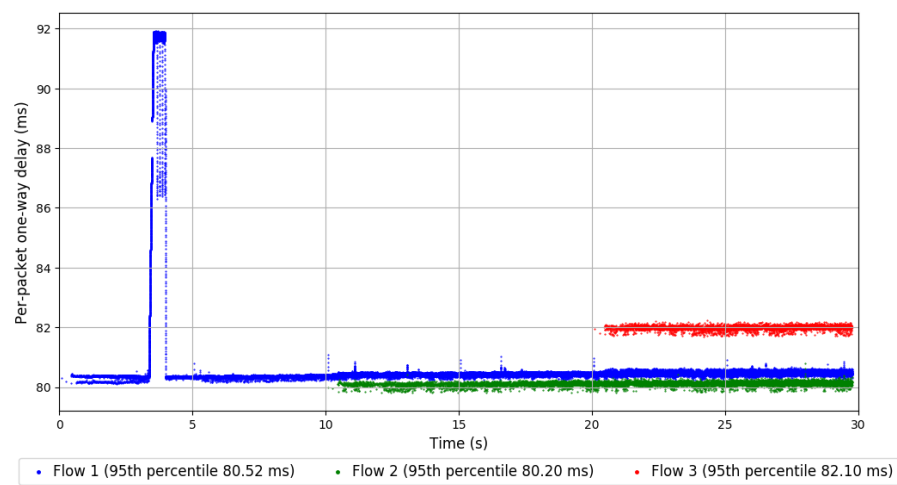
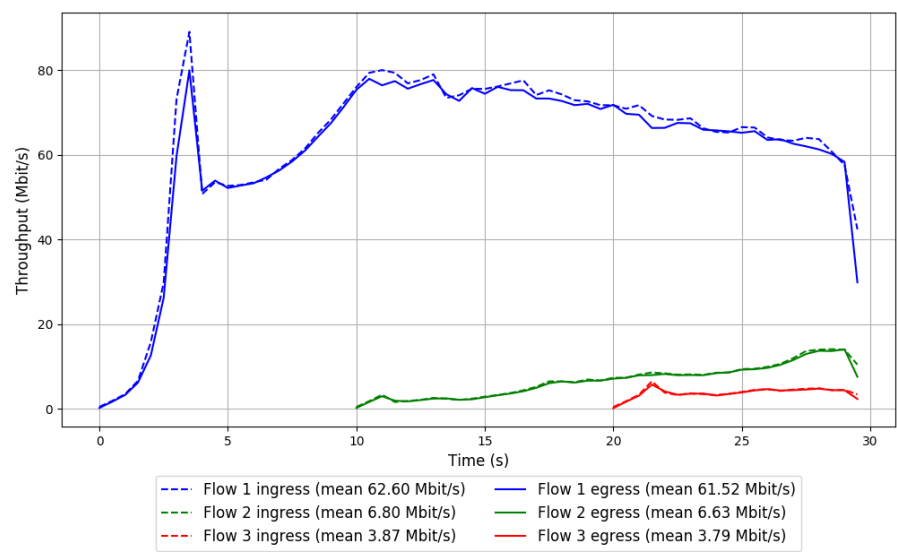
-- Flow 3:

Average throughput: 3.79 Mbit/s

95th percentile per-packet one-way delay: 82.097 ms

Loss rate: 3.85%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-03-21 03:12:52

End at: 2018-03-21 03:13:22

Local clock offset: -5.509 ms

Remote clock offset: 1.328 ms

# Below is generated by plot.py at 2018-03-21 08:09:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 75.44 Mbit/s

95th percentile per-packet one-way delay: 113.406 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 47.17 Mbit/s

95th percentile per-packet one-way delay: 113.245 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 30.68 Mbit/s

95th percentile per-packet one-way delay: 113.281 ms

Loss rate: 1.10%

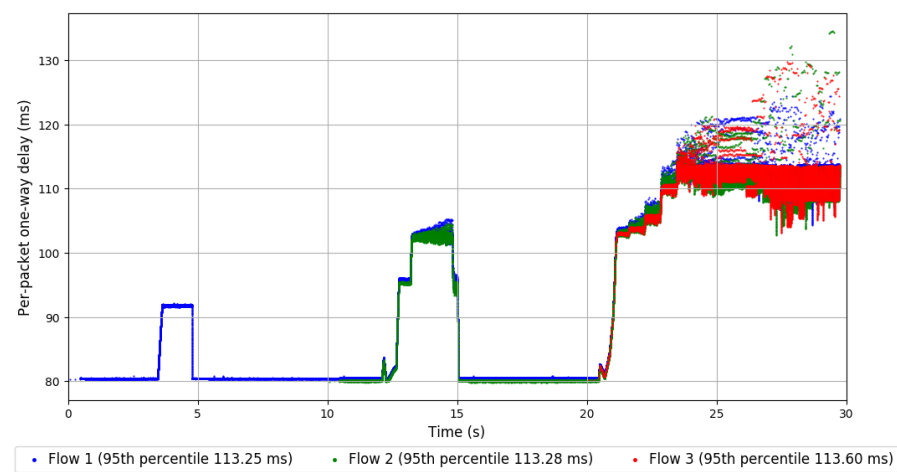
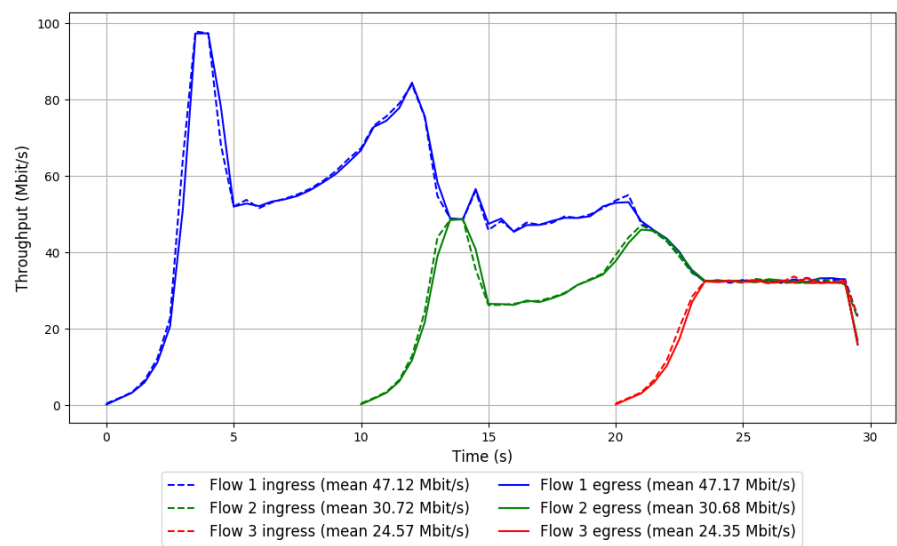
-- Flow 3:

Average throughput: 24.35 Mbit/s

95th percentile per-packet one-way delay: 113.601 ms

Loss rate: 2.92%

Run 9: Report of Vivace-loss — Data Link

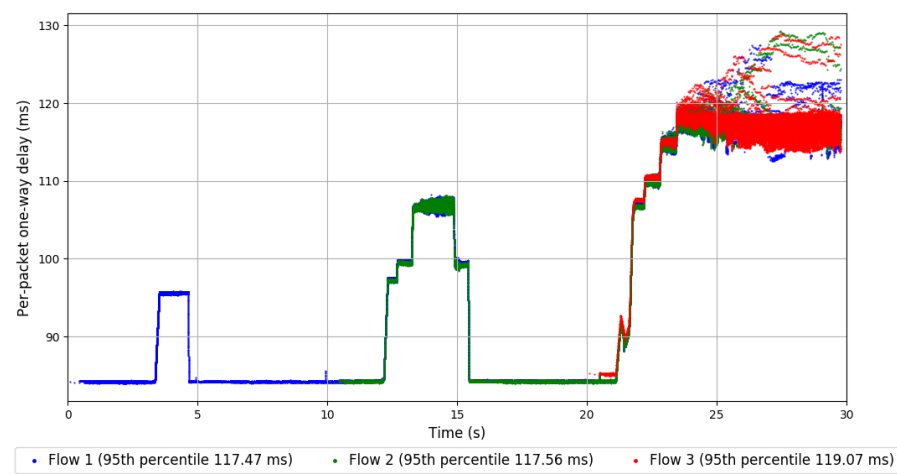
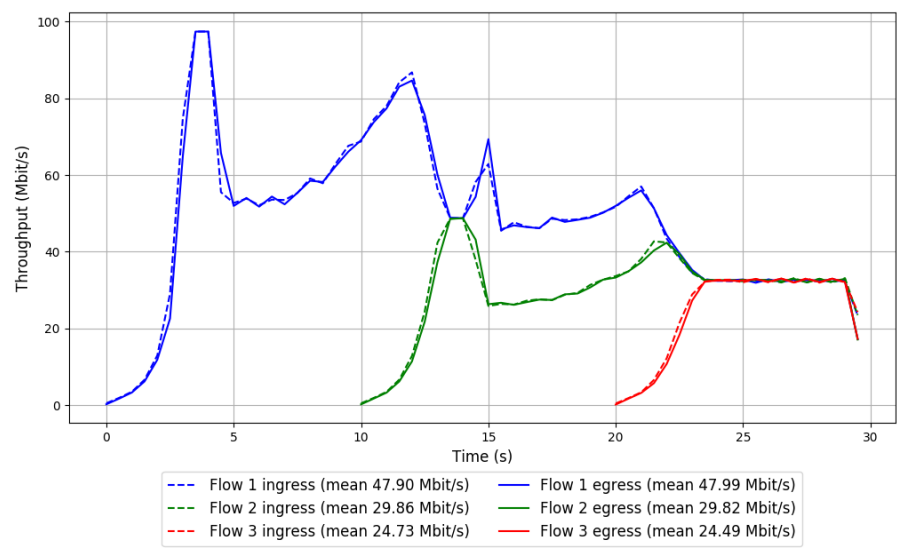


Run 10: Statistics of Vivace-loss

Start at: 2018-03-21 03:36:46  
End at: 2018-03-21 03:37:16  
Local clock offset: -5.592 ms  
Remote clock offset: -3.392 ms

# Below is generated by plot.py at 2018-03-21 08:10:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.73 Mbit/s  
95th percentile per-packet one-way delay: 117.889 ms  
Loss rate: 0.93%  
-- Flow 1:  
Average throughput: 47.99 Mbit/s  
95th percentile per-packet one-way delay: 117.467 ms  
Loss rate: 0.49%  
-- Flow 2:  
Average throughput: 29.82 Mbit/s  
95th percentile per-packet one-way delay: 117.557 ms  
Loss rate: 1.17%  
-- Flow 3:  
Average throughput: 24.49 Mbit/s  
95th percentile per-packet one-way delay: 119.067 ms  
Loss rate: 2.96%

Run 10: Report of Vivace-loss — Data Link



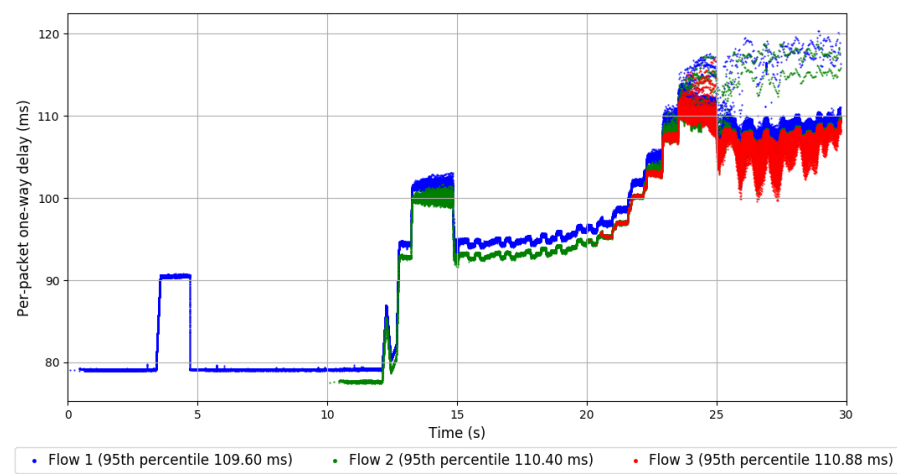
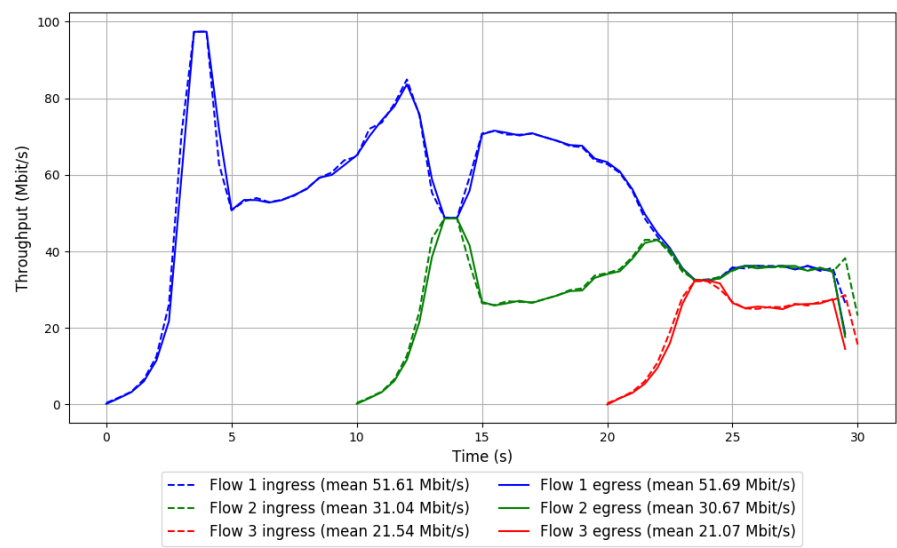
Run 1: Statistics of Vivace-LTE

Start at: 2018-03-20 23:45:23  
End at: 2018-03-20 23:45:53  
Local clock offset: -13.231 ms  
Remote clock offset: 10.216 ms

# Below is generated by plot.py at 2018-03-21 08:10:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.87 Mbit/s  
95th percentile per-packet one-way delay: 110.205 ms  
Loss rate: 2.15%  
-- Flow 1:  
Average throughput: 51.69 Mbit/s  
95th percentile per-packet one-way delay: 109.603 ms  
Loss rate: 0.52%  
-- Flow 2:  
Average throughput: 30.67 Mbit/s  
95th percentile per-packet one-way delay: 110.396 ms  
Loss rate: 4.06%  
-- Flow 3:  
Average throughput: 21.07 Mbit/s  
95th percentile per-packet one-way delay: 110.881 ms  
Loss rate: 8.01%



Run 1: Report of Vivace-LTE — Data Link

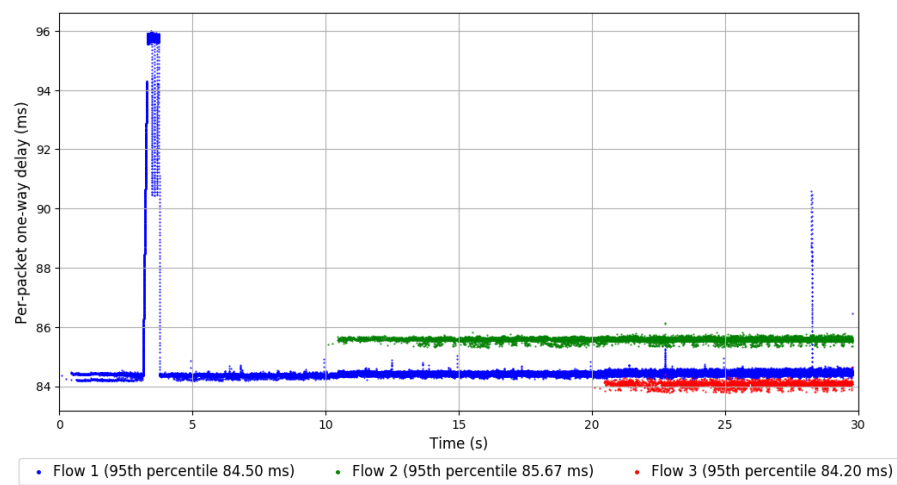
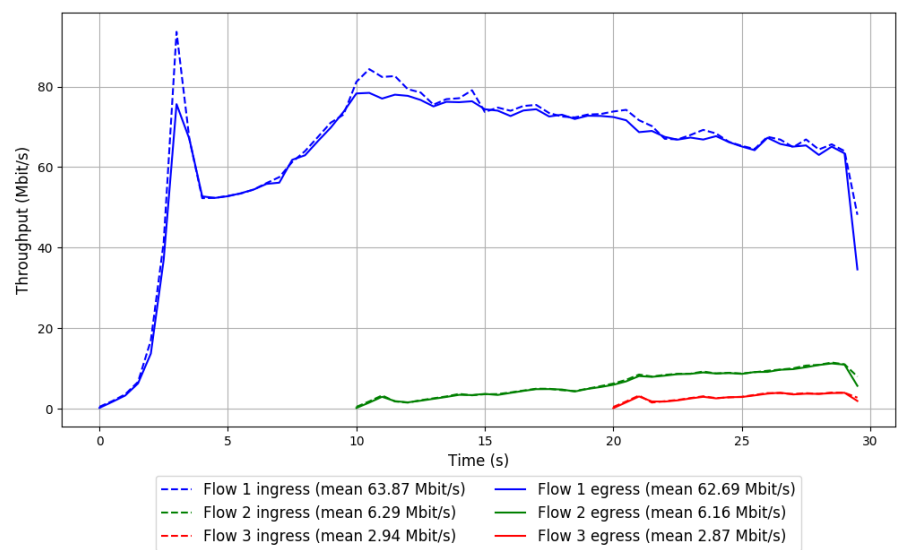


Run 2: Statistics of Vivace-LTE

Start at: 2018-03-21 00:09:23  
End at: 2018-03-21 00:09:53  
Local clock offset: -13.916 ms  
Remote clock offset: 2.307 ms

# Below is generated by plot.py at 2018-03-21 08:10:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 67.70 Mbit/s  
95th percentile per-packet one-way delay: 85.593 ms  
Loss rate: 2.49%  
-- Flow 1:  
Average throughput: 62.69 Mbit/s  
95th percentile per-packet one-way delay: 84.503 ms  
Loss rate: 2.43%  
-- Flow 2:  
Average throughput: 6.16 Mbit/s  
95th percentile per-packet one-way delay: 85.665 ms  
Loss rate: 3.02%  
-- Flow 3:  
Average throughput: 2.87 Mbit/s  
95th percentile per-packet one-way delay: 84.204 ms  
Loss rate: 4.09%

Run 2: Report of Vivace-LTE — Data Link

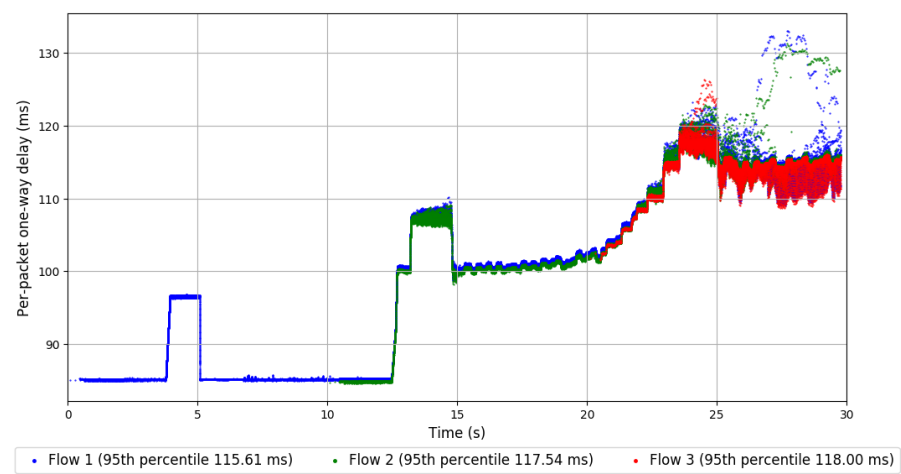
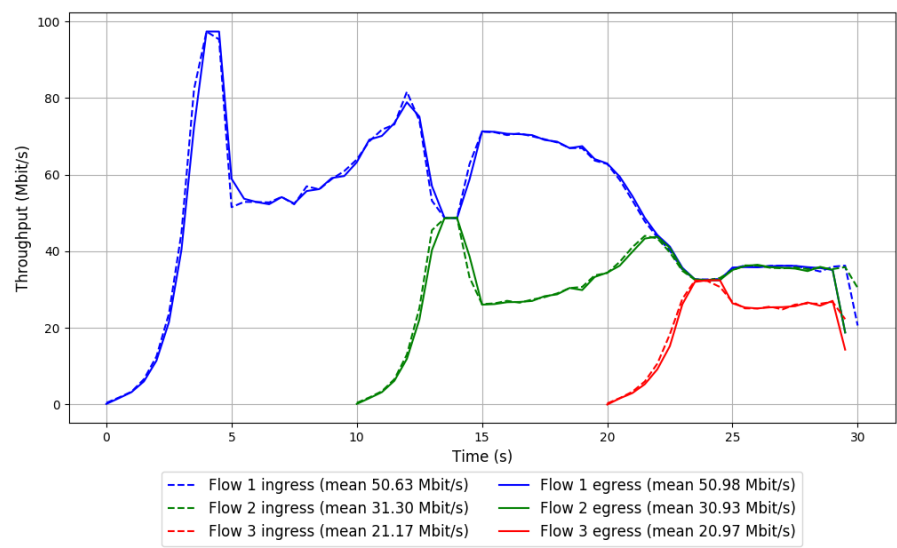


Run 3: Statistics of Vivace-LTE

Start at: 2018-03-21 00:33:14  
End at: 2018-03-21 00:33:44  
Local clock offset: -14.176 ms  
Remote clock offset: 2.4 ms

# Below is generated by plot.py at 2018-03-21 08:10:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.29 Mbit/s  
95th percentile per-packet one-way delay: 117.251 ms  
Loss rate: 2.44%  
-- Flow 1:  
Average throughput: 50.98 Mbit/s  
95th percentile per-packet one-way delay: 115.614 ms  
Loss rate: 1.50%  
-- Flow 2:  
Average throughput: 30.93 Mbit/s  
95th percentile per-packet one-way delay: 117.539 ms  
Loss rate: 4.40%  
-- Flow 3:  
Average throughput: 20.97 Mbit/s  
95th percentile per-packet one-way delay: 117.998 ms  
Loss rate: 3.32%

Run 3: Report of Vivace-LTE — Data Link

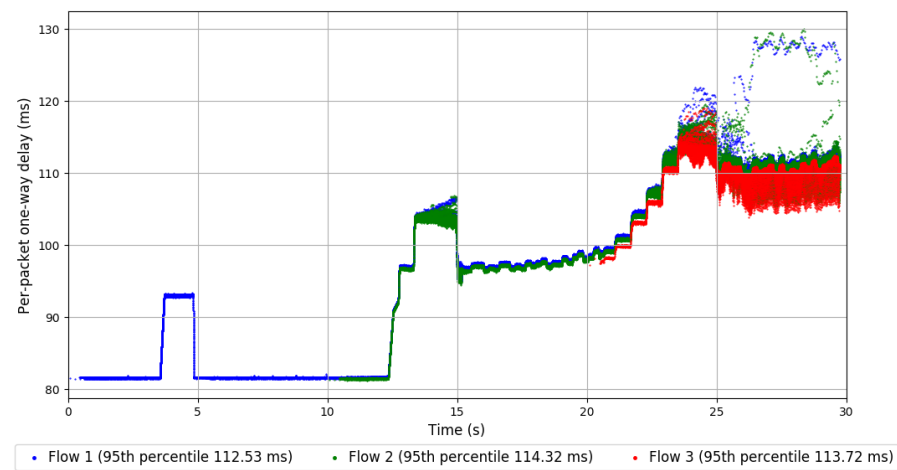
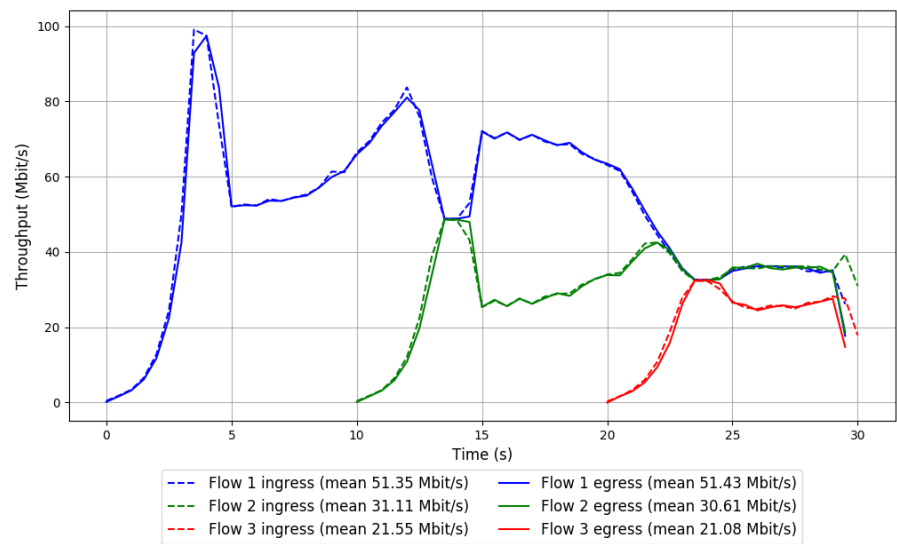


Run 4: Statistics of Vivace-LTE

Start at: 2018-03-21 00:57:15  
End at: 2018-03-21 00:57:45  
Local clock offset: -14.183 ms  
Remote clock offset: 6.237 ms

# Below is generated by plot.py at 2018-03-21 08:10:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.57 Mbit/s  
95th percentile per-packet one-way delay: 113.526 ms  
Loss rate: 2.36%  
-- Flow 1:  
Average throughput: 51.43 Mbit/s  
95th percentile per-packet one-way delay: 112.525 ms  
Loss rate: 0.52%  
-- Flow 2:  
Average throughput: 30.61 Mbit/s  
95th percentile per-packet one-way delay: 114.323 ms  
Loss rate: 4.73%  
-- Flow 3:  
Average throughput: 21.08 Mbit/s  
95th percentile per-packet one-way delay: 113.716 ms  
Loss rate: 8.36%

Run 4: Report of Vivace-LTE — Data Link



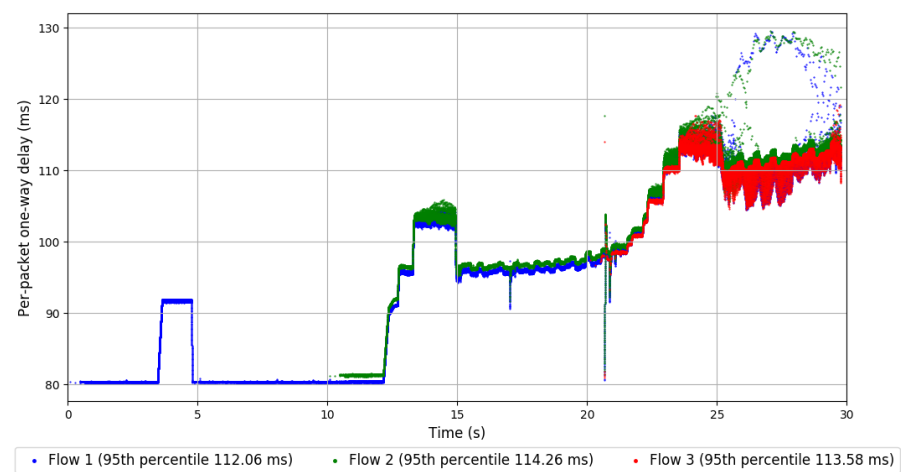
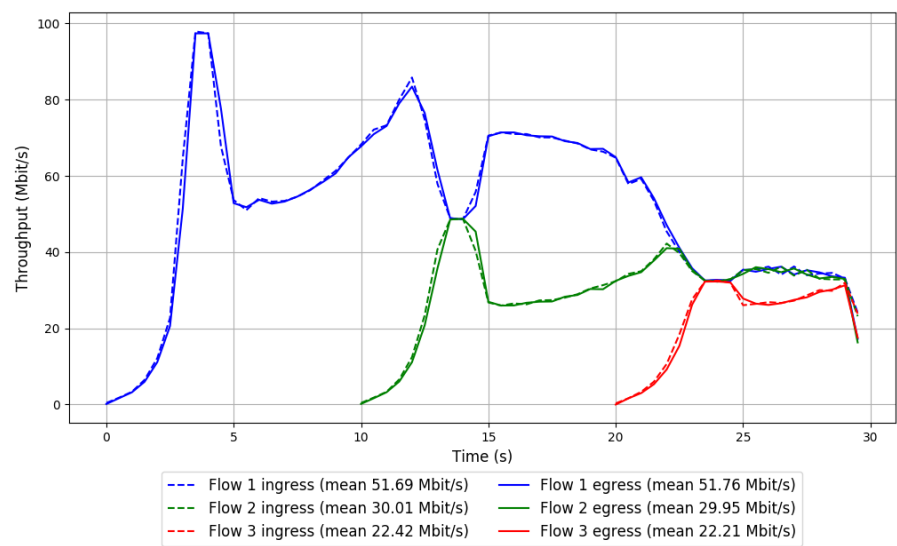
Run 5: Statistics of Vivace-LTE

Start at: 2018-03-21 01:21:09  
End at: 2018-03-21 01:21:39  
Local clock offset: -14.324 ms  
Remote clock offset: 5.498 ms

# Below is generated by plot.py at 2018-03-21 08:10:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.83 Mbit/s  
95th percentile per-packet one-way delay: 113.408 ms  
Loss rate: 0.89%  
-- Flow 1:  
Average throughput: 51.76 Mbit/s  
95th percentile per-packet one-way delay: 112.060 ms  
Loss rate: 0.47%  
-- Flow 2:  
Average throughput: 29.95 Mbit/s  
95th percentile per-packet one-way delay: 114.258 ms  
Loss rate: 1.17%  
-- Flow 3:  
Average throughput: 22.21 Mbit/s  
95th percentile per-packet one-way delay: 113.584 ms  
Loss rate: 3.10%



Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-03-21 01:45:03

End at: 2018-03-21 01:45:33

Local clock offset: -8.877 ms

Remote clock offset: 0.713 ms

# Below is generated by plot.py at 2018-03-21 08:10:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 66.43 Mbit/s

95th percentile per-packet one-way delay: 85.042 ms

Loss rate: 2.61%

-- Flow 1:

Average throughput: 57.70 Mbit/s

95th percentile per-packet one-way delay: 84.094 ms

Loss rate: 2.43%

-- Flow 2:

Average throughput: 9.25 Mbit/s

95th percentile per-packet one-way delay: 83.890 ms

Loss rate: 2.98%

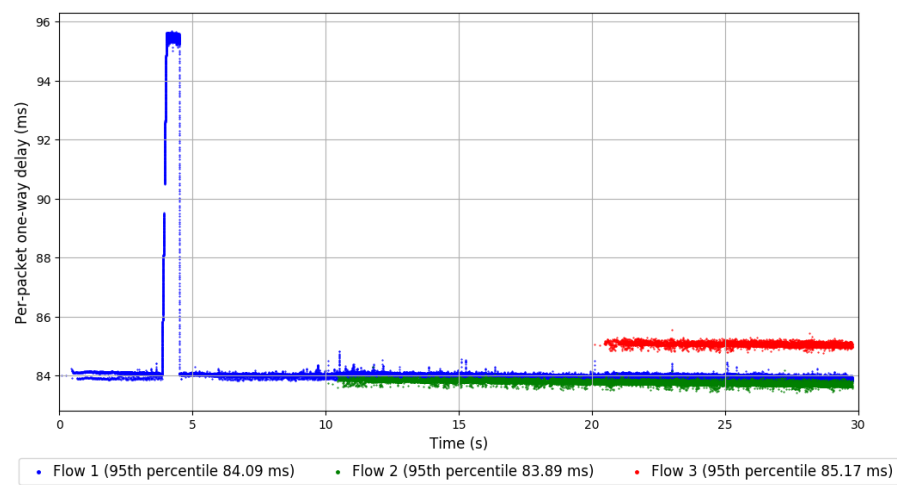
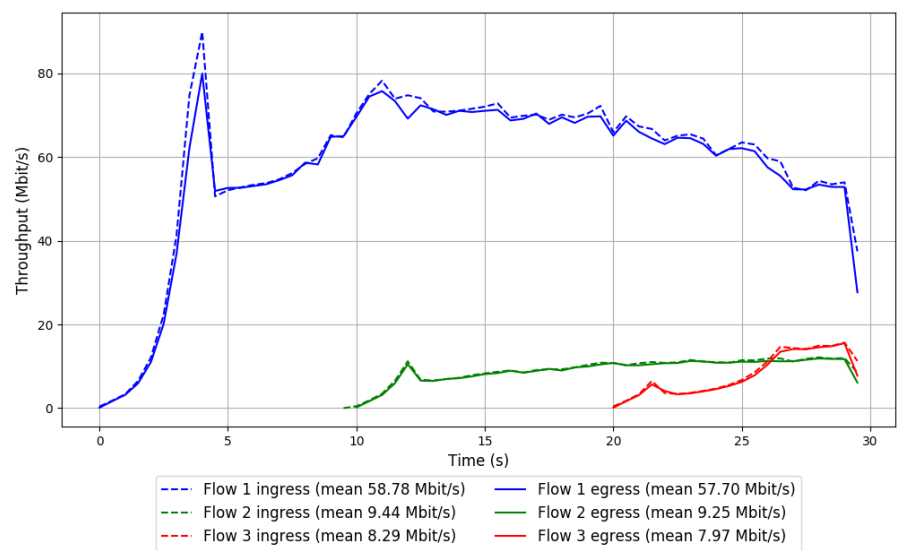
-- Flow 3:

Average throughput: 7.97 Mbit/s

95th percentile per-packet one-way delay: 85.175 ms

Loss rate: 5.58%

Run 6: Report of Vivace-LTE — Data Link

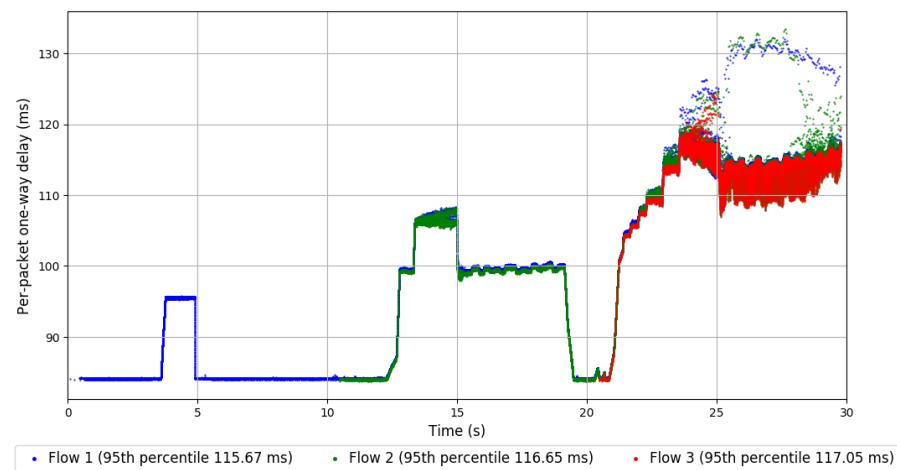
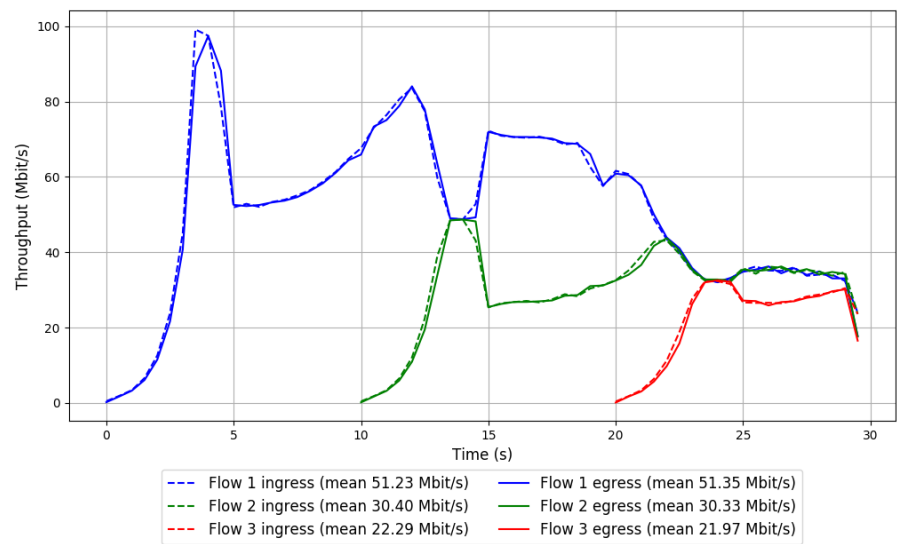


Run 7: Statistics of Vivace-LTE

Start at: 2018-03-21 02:09:01  
End at: 2018-03-21 02:09:31  
Local clock offset: -2.089 ms  
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2018-03-21 08:10:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.59 Mbit/s  
95th percentile per-packet one-way delay: 116.334 ms  
Loss rate: 0.89%  
-- Flow 1:  
Average throughput: 51.35 Mbit/s  
95th percentile per-packet one-way delay: 115.674 ms  
Loss rate: 0.45%  
-- Flow 2:  
Average throughput: 30.33 Mbit/s  
95th percentile per-packet one-way delay: 116.651 ms  
Loss rate: 1.16%  
-- Flow 3:  
Average throughput: 21.97 Mbit/s  
95th percentile per-packet one-way delay: 117.054 ms  
Loss rate: 3.21%

Run 7: Report of Vivace-LTE — Data Link

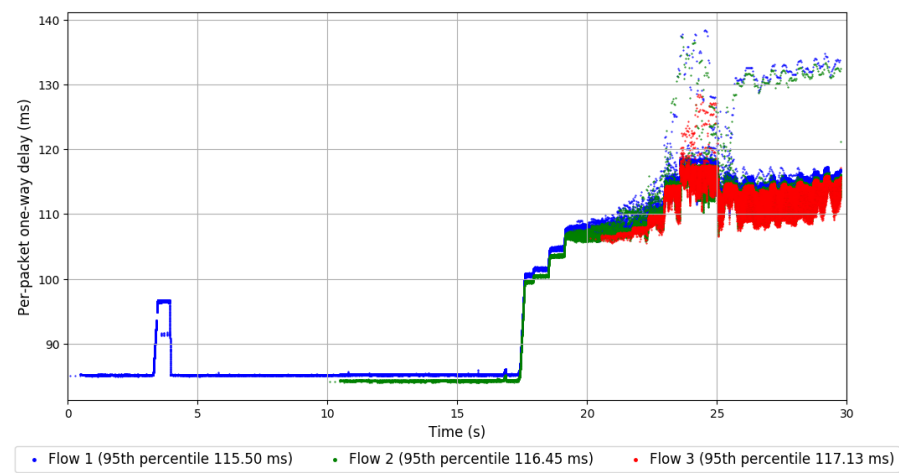
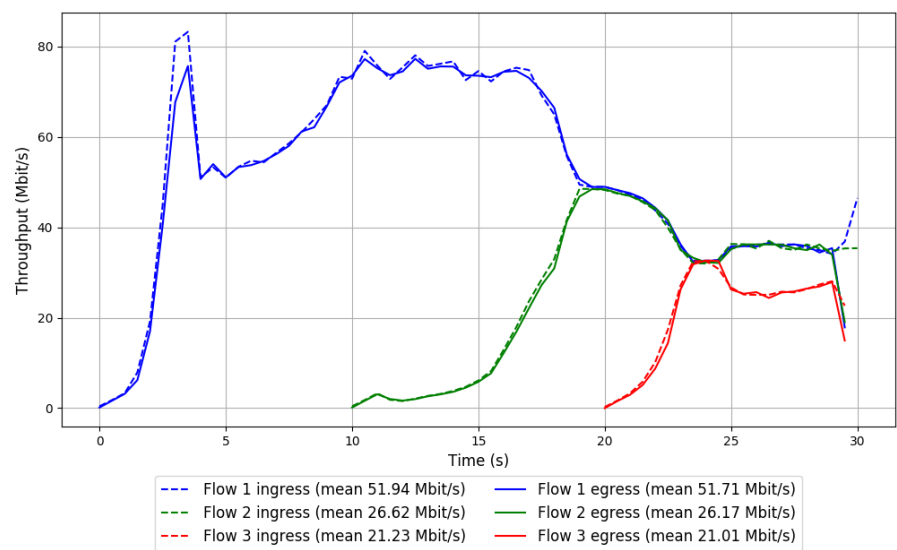


Run 8: Statistics of Vivace-LTE

Start at: 2018-03-21 02:32:54  
End at: 2018-03-21 02:33:24  
Local clock offset: -4.445 ms  
Remote clock offset: -1.014 ms

# Below is generated by plot.py at 2018-03-21 08:10:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.85 Mbit/s  
95th percentile per-packet one-way delay: 115.951 ms  
Loss rate: 3.71%  
-- Flow 1:  
Average throughput: 51.71 Mbit/s  
95th percentile per-packet one-way delay: 115.504 ms  
Loss rate: 3.12%  
-- Flow 2:  
Average throughput: 26.17 Mbit/s  
95th percentile per-packet one-way delay: 116.446 ms  
Loss rate: 5.54%  
-- Flow 3:  
Average throughput: 21.01 Mbit/s  
95th percentile per-packet one-way delay: 117.127 ms  
Loss rate: 3.37%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-03-21 02:56:45

End at: 2018-03-21 02:57:15

Local clock offset: -5.261 ms

Remote clock offset: 1.973 ms

# Below is generated by plot.py at 2018-03-21 08:10:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 79.00 Mbit/s

95th percentile per-packet one-way delay: 113.276 ms

Loss rate: 2.57%

-- Flow 1:

Average throughput: 51.74 Mbit/s

95th percentile per-packet one-way delay: 113.279 ms

Loss rate: 0.53%

-- Flow 2:

Average throughput: 30.28 Mbit/s

95th percentile per-packet one-way delay: 113.209 ms

Loss rate: 4.84%

-- Flow 3:

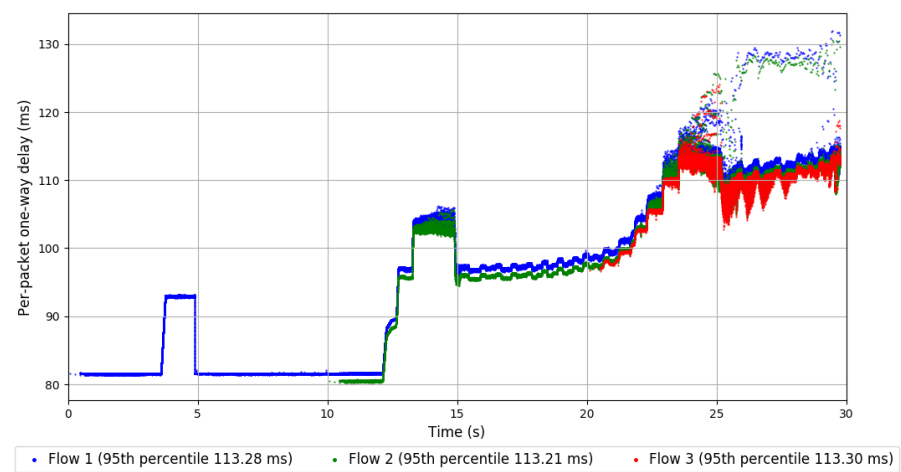
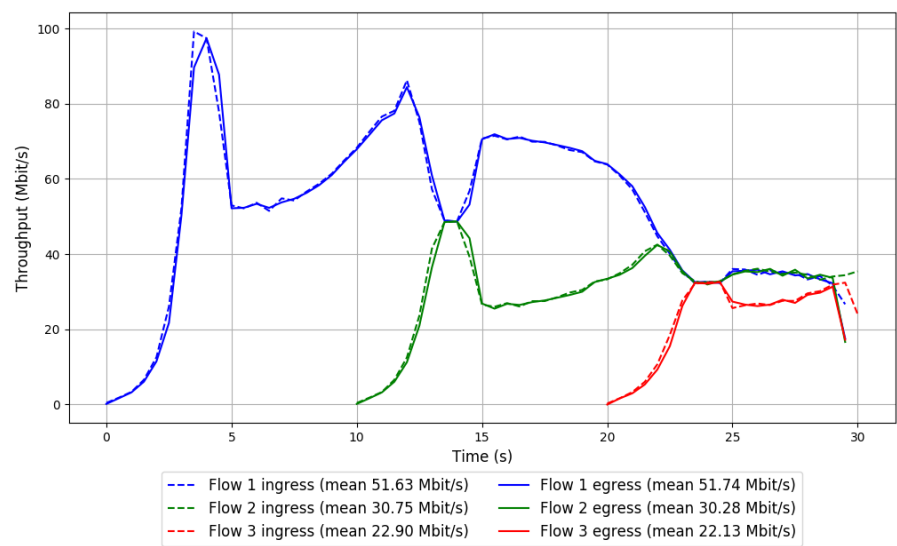
Average throughput: 22.13 Mbit/s

95th percentile per-packet one-way delay: 113.300 ms

Loss rate: 9.88%



Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-03-21 03:20:52

End at: 2018-03-21 03:21:22

Local clock offset: -5.406 ms

Remote clock offset: 1.104 ms

# Below is generated by plot.py at 2018-03-21 08:10:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 79.47 Mbit/s

95th percentile per-packet one-way delay: 113.612 ms

Loss rate: 2.85%

-- Flow 1:

Average throughput: 52.87 Mbit/s

95th percentile per-packet one-way delay: 112.308 ms

Loss rate: 2.31%

-- Flow 2:

Average throughput: 29.37 Mbit/s

95th percentile per-packet one-way delay: 113.350 ms

Loss rate: 1.32%

-- Flow 3:

Average throughput: 21.88 Mbit/s

95th percentile per-packet one-way delay: 115.030 ms

Loss rate: 10.32%

Run 10: Report of Vivace-LTE — Data Link

