

Pantheon Report

Generated at 2018-05-24 20:43:42 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

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

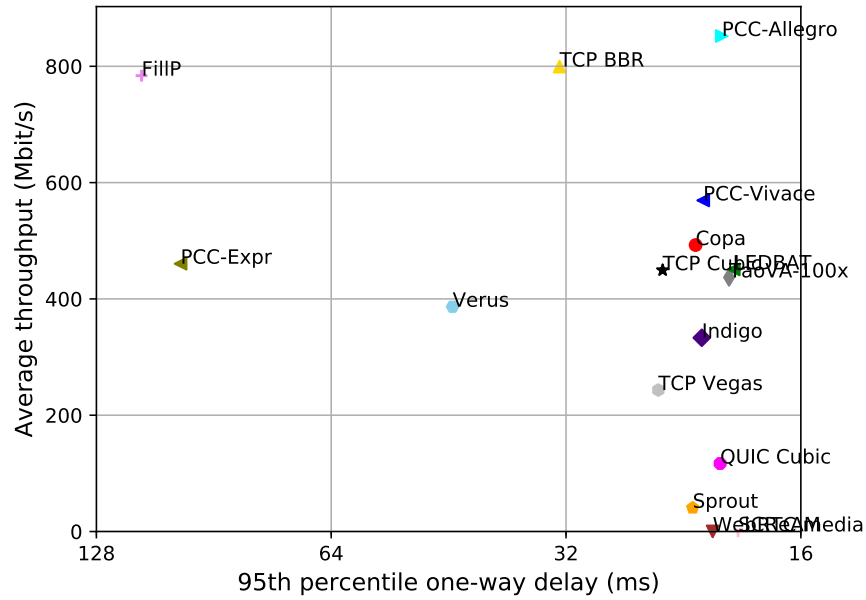
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

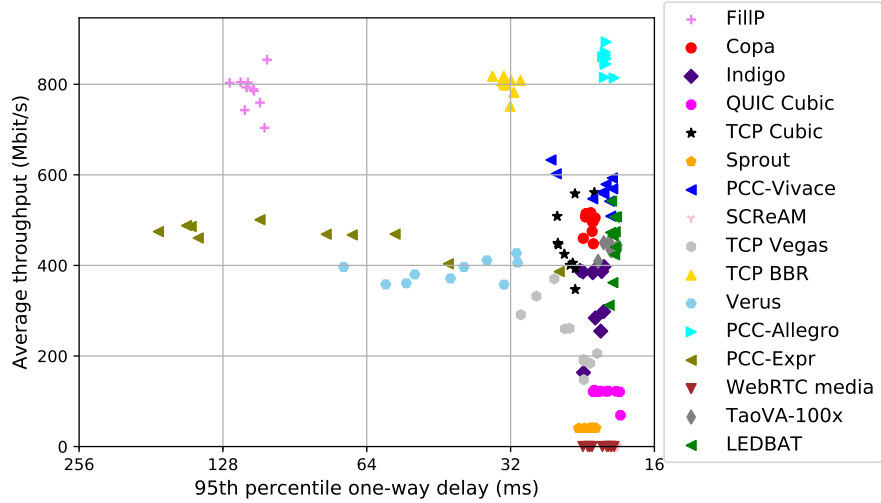
Git summary:

```
branch: master @ 0088822873ea99180f63545a341ef069f40efe59
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
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/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



test from AWS California 1 to Stanford, 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	467.72	355.97	288.78	33.79	25.19	20.51	5.93	9.71	11.44
Copa	10	263.59	238.71	210.77	21.13	21.98	22.79	0.01	0.02	0.03
TCP Cubic	10	254.74	191.02	202.91	24.20	23.59	24.66	0.06	0.08	0.08
FillP	10	460.23	365.18	243.27	109.55	114.94	94.82	11.34	17.77	18.56
Indigo	10	157.84	181.69	169.33	21.63	22.39	20.84	0.03	0.02	0.03
LEDBAT	10	265.23	199.86	157.48	19.48	19.32	19.18	0.02	0.03	0.04
PCC-Allegro	10	703.69	174.26	98.86	20.17	19.63	19.74	0.50	0.79	0.59
PCC-Expr	10	263.55	234.84	123.51	83.94	94.55	30.39	0.52	1.01	0.05
QUIC Cubic	10	59.17	61.39	51.76	19.09	20.18	22.54	0.00	0.00	0.00
SCReAM	10	0.21	0.22	0.22	19.02	19.27	18.86	0.02	0.02	0.00
Sprout	10	20.50	20.32	20.46	21.77	22.15	21.89	0.06	0.05	0.04
TaoVA-100x	10	225.36	221.71	192.29	19.26	19.55	20.67	0.01	0.01	0.01
TCP Vegas	10	128.26	103.36	138.76	23.27	23.36	25.15	0.07	0.06	0.13
Verus	10	195.67	201.62	176.18	49.97	40.21	37.52	21.66	22.01	22.25
PCC-Vivace	10	351.29	273.44	109.84	20.53	22.83	27.88	0.12	0.28	0.37
WebRTC media	10	0.05	0.05	0.05	20.77	19.45	20.76	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-05-24 14:07:01

End at: 2018-05-24 14:07:31

Local clock offset: 0.377 ms

Remote clock offset: 0.234 ms

Below is generated by plot.py at 2018-05-24 18:39:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 817.92 Mbit/s

95th percentile per-packet one-way delay: 34.911 ms

Loss rate: 7.62%

-- Flow 1:

Average throughput: 489.66 Mbit/s

95th percentile per-packet one-way delay: 35.604 ms

Loss rate: 5.64%

-- Flow 2:

Average throughput: 378.31 Mbit/s

95th percentile per-packet one-way delay: 31.060 ms

Loss rate: 11.37%

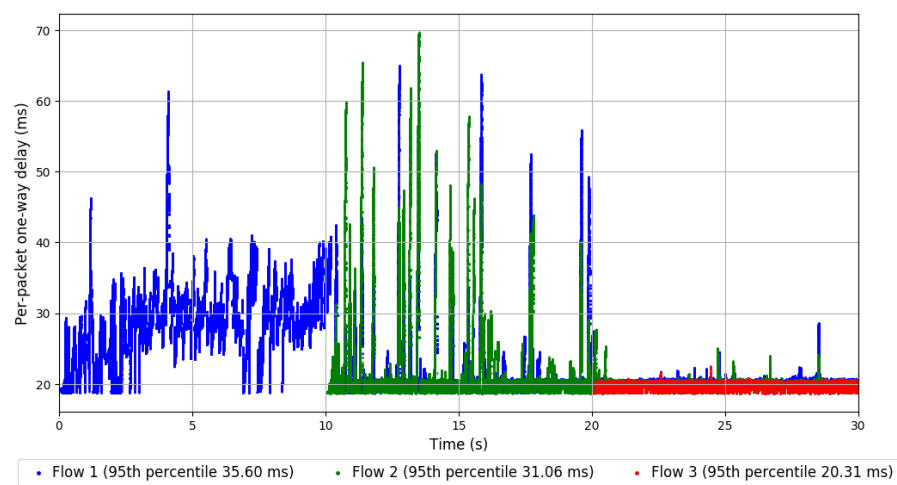
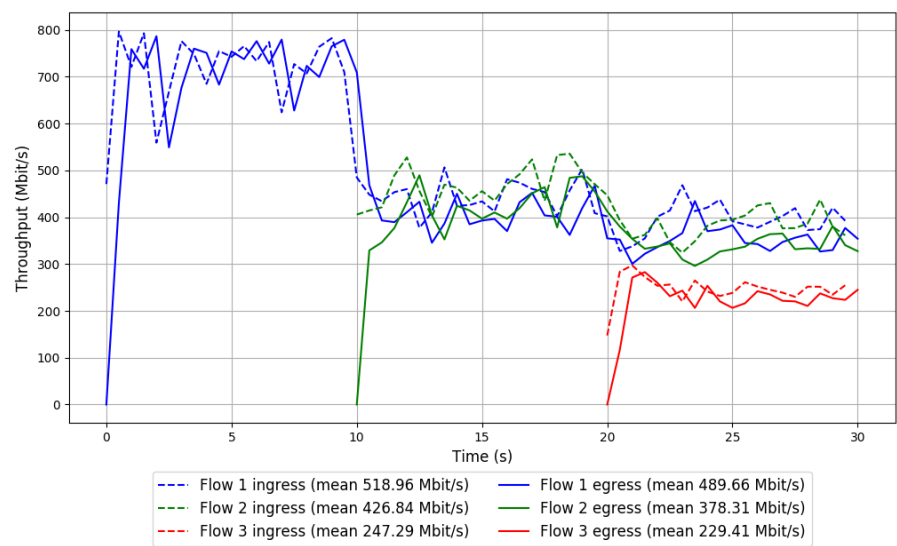
-- Flow 3:

Average throughput: 229.41 Mbit/s

95th percentile per-packet one-way delay: 20.309 ms

Loss rate: 7.22%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-05-24 14:32:53

End at: 2018-05-24 14:33:23

Local clock offset: 0.42 ms

Remote clock offset: 0.668 ms

Below is generated by plot.py at 2018-05-24 18:39:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 807.36 Mbit/s

95th percentile per-packet one-way delay: 33.379 ms

Loss rate: 8.43%

-- Flow 1:

Average throughput: 472.63 Mbit/s

95th percentile per-packet one-way delay: 34.187 ms

Loss rate: 6.34%

-- Flow 2:

Average throughput: 340.61 Mbit/s

95th percentile per-packet one-way delay: 28.047 ms

Loss rate: 11.31%

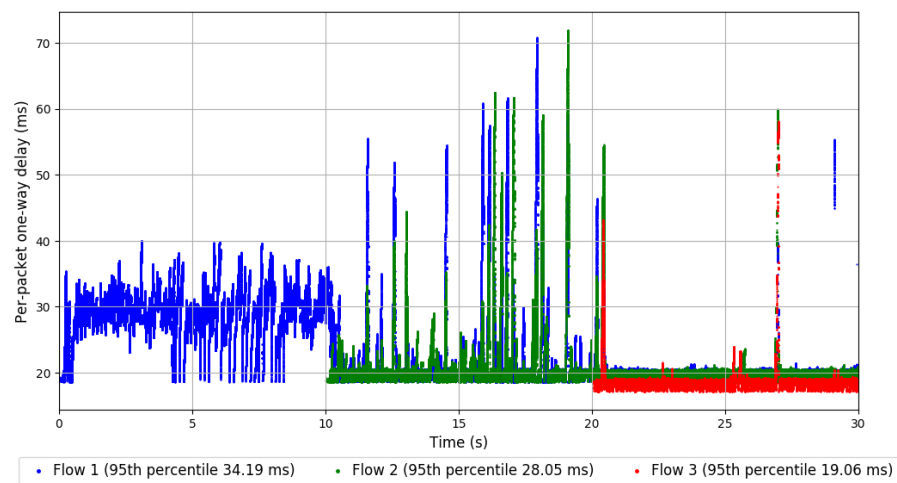
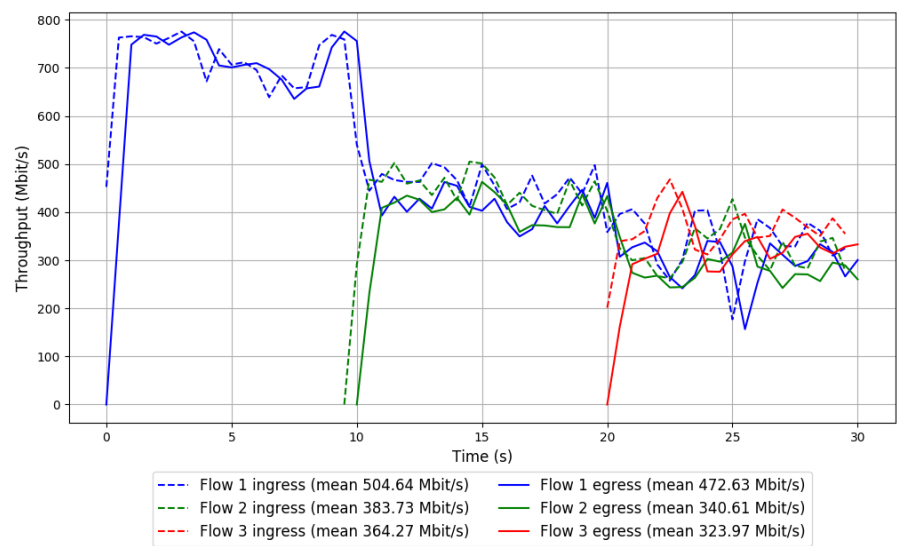
-- Flow 3:

Average throughput: 323.97 Mbit/s

95th percentile per-packet one-way delay: 19.059 ms

Loss rate: 11.06%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-05-24 14:58:51

End at: 2018-05-24 14:59:21

Local clock offset: 0.181 ms

Remote clock offset: 1.217 ms

Below is generated by plot.py at 2018-05-24 18:39:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 804.35 Mbit/s

95th percentile per-packet one-way delay: 33.046 ms

Loss rate: 6.61%

-- Flow 1:

Average throughput: 491.69 Mbit/s

95th percentile per-packet one-way delay: 34.023 ms

Loss rate: 6.19%

-- Flow 2:

Average throughput: 296.98 Mbit/s

95th percentile per-packet one-way delay: 20.436 ms

Loss rate: 6.29%

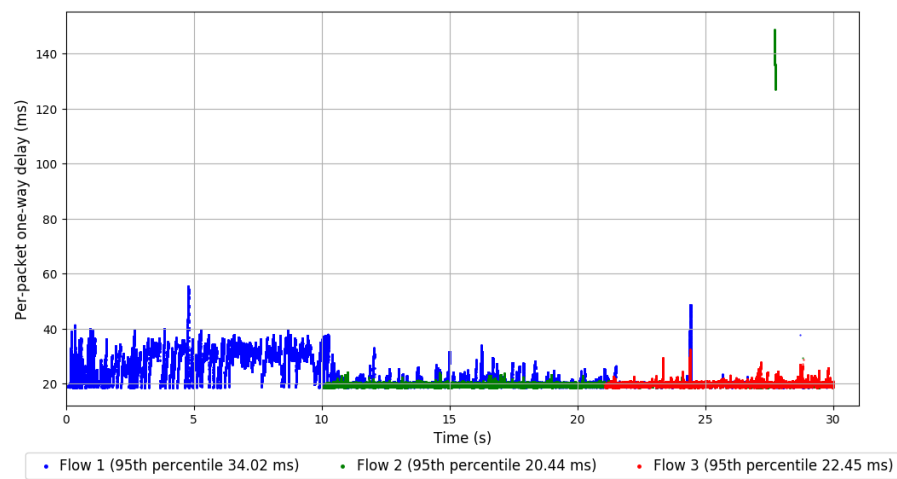
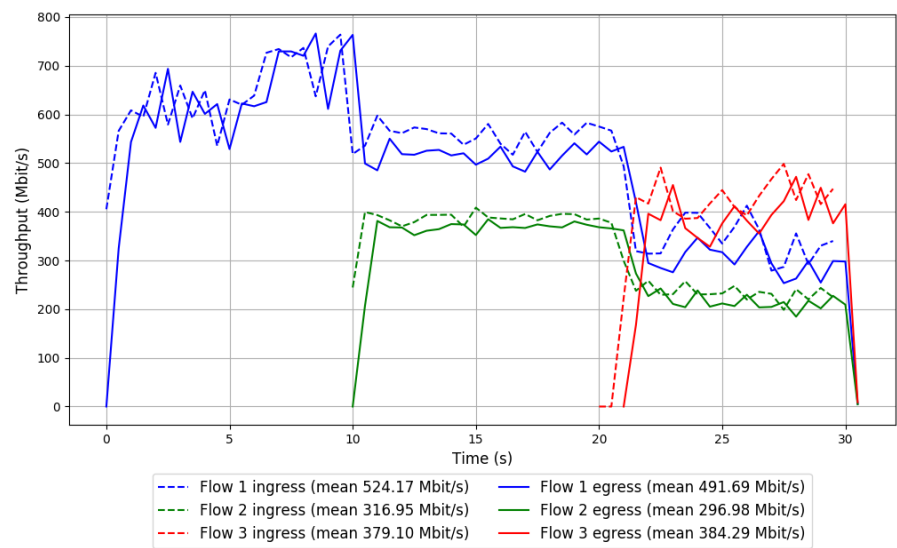
-- Flow 3:

Average throughput: 384.29 Mbit/s

95th percentile per-packet one-way delay: 22.453 ms

Loss rate: 8.90%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-05-24 15:24:59

End at: 2018-05-24 15:25:29

Local clock offset: 0.15 ms

Remote clock offset: 0.566 ms

Below is generated by plot.py at 2018-05-24 18:39:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 799.02 Mbit/s

95th percentile per-packet one-way delay: 32.975 ms

Loss rate: 8.29%

-- Flow 1:

Average throughput: 458.46 Mbit/s

95th percentile per-packet one-way delay: 34.365 ms

Loss rate: 6.07%

-- Flow 2:

Average throughput: 364.98 Mbit/s

95th percentile per-packet one-way delay: 24.998 ms

Loss rate: 10.50%

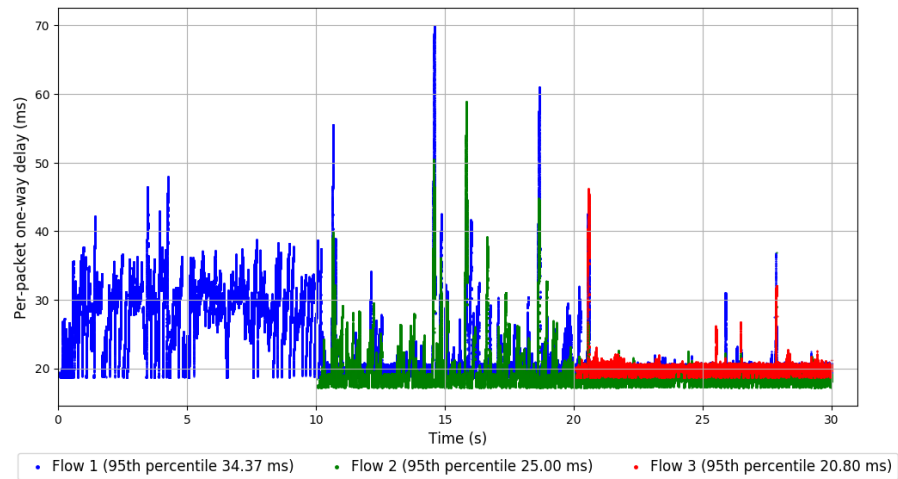
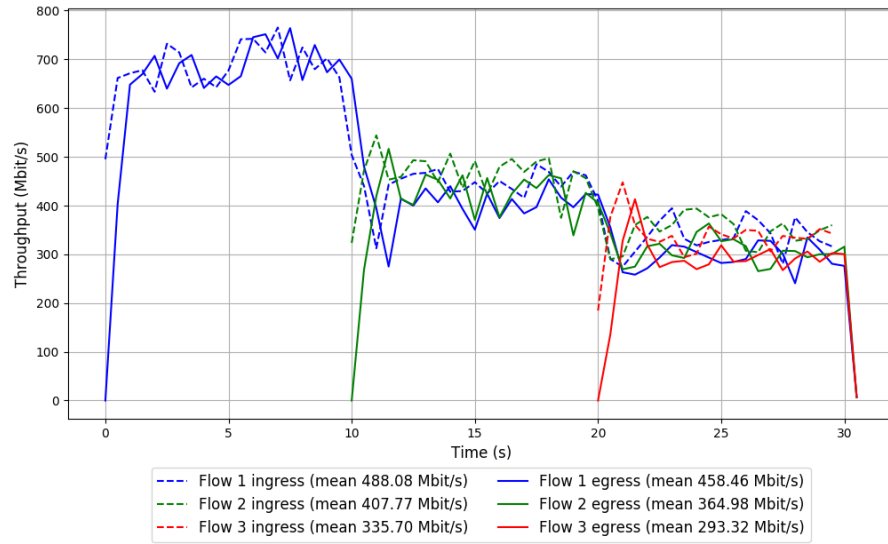
-- Flow 3:

Average throughput: 293.32 Mbit/s

95th percentile per-packet one-way delay: 20.805 ms

Loss rate: 12.63%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-05-24 15:50:36

End at: 2018-05-24 15:51:06

Local clock offset: 0.307 ms

Remote clock offset: 0.166 ms

Below is generated by plot.py at 2018-05-24 18:39:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 817.62 Mbit/s

95th percentile per-packet one-way delay: 33.065 ms

Loss rate: 7.08%

-- Flow 1:

Average throughput: 474.39 Mbit/s

95th percentile per-packet one-way delay: 34.045 ms

Loss rate: 5.28%

-- Flow 2:

Average throughput: 374.78 Mbit/s

95th percentile per-packet one-way delay: 25.843 ms

Loss rate: 8.41%

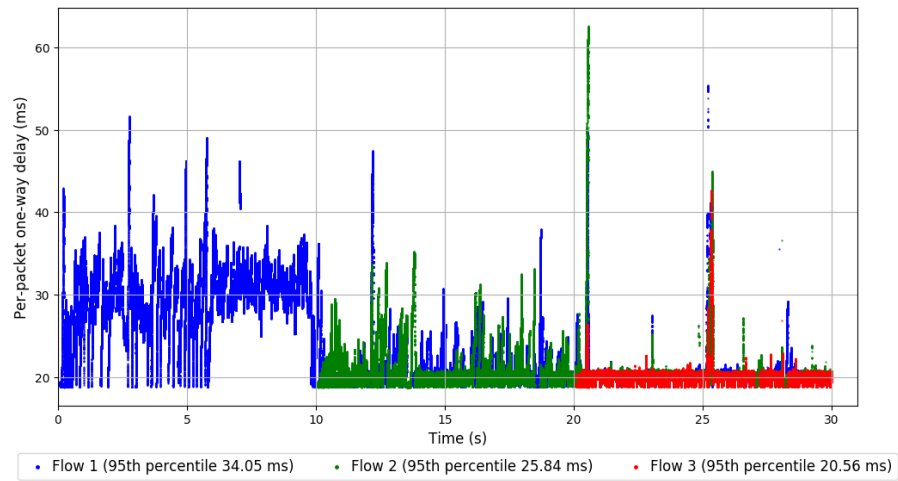
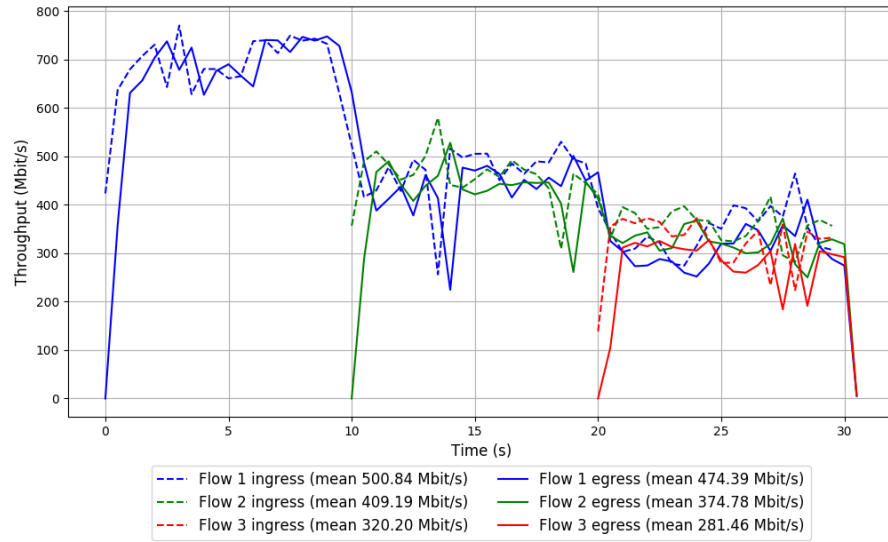
-- Flow 3:

Average throughput: 281.46 Mbit/s

95th percentile per-packet one-way delay: 20.556 ms

Loss rate: 12.11%

Run 5: Report of TCP BBR — Data Link

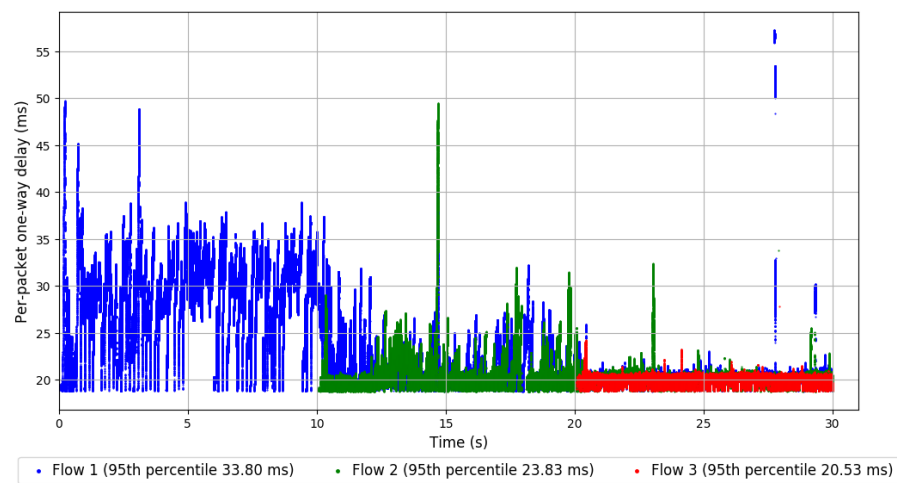
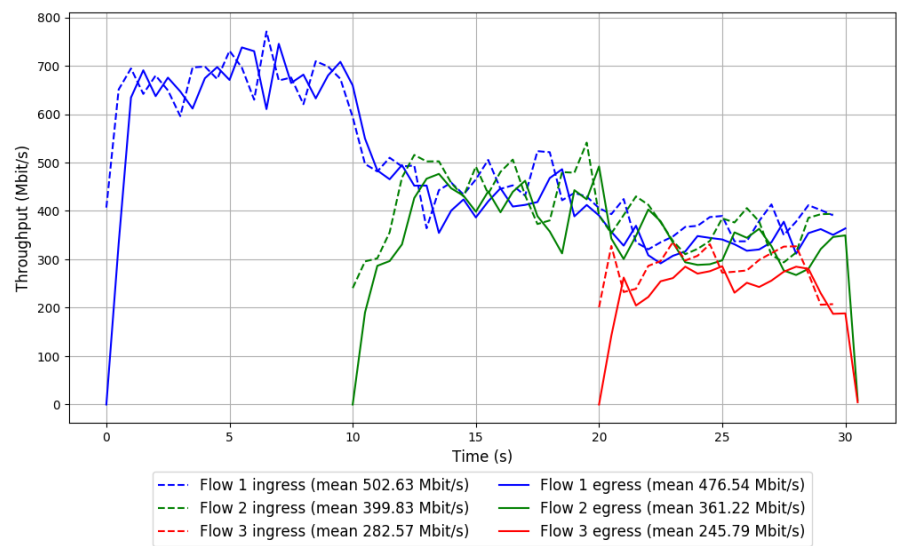


Run 6: Statistics of TCP BBR

Start at: 2018-05-24 16:16:30
End at: 2018-05-24 16:17:00
Local clock offset: 0.101 ms
Remote clock offset: -0.111 ms

Below is generated by plot.py at 2018-05-24 18:39:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 798.49 Mbit/s
95th percentile per-packet one-way delay: 32.755 ms
Loss rate: 7.42%
-- Flow 1:
Average throughput: 476.54 Mbit/s
95th percentile per-packet one-way delay: 33.795 ms
Loss rate: 5.19%
-- Flow 2:
Average throughput: 361.22 Mbit/s
95th percentile per-packet one-way delay: 23.828 ms
Loss rate: 9.66%
-- Flow 3:
Average throughput: 245.79 Mbit/s
95th percentile per-packet one-way delay: 20.528 ms
Loss rate: 13.01%

Run 6: Report of TCP BBR — Data Link

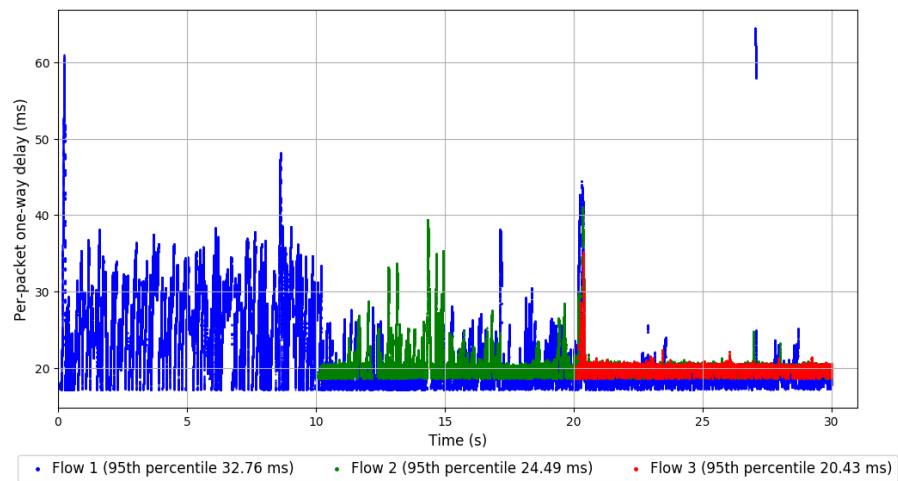
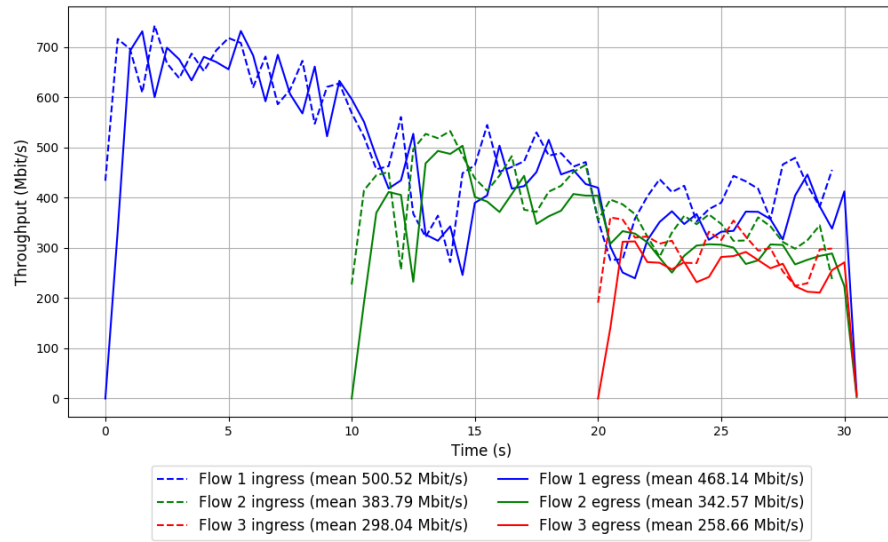


Run 7: Statistics of TCP BBR

Start at: 2018-05-24 16:42:08
End at: 2018-05-24 16:42:38
Local clock offset: 0.2 ms
Remote clock offset: -0.062 ms

Below is generated by plot.py at 2018-05-24 18:39:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 782.23 Mbit/s
95th percentile per-packet one-way delay: 31.510 ms
Loss rate: 8.52%
-- Flow 1:
Average throughput: 468.14 Mbit/s
95th percentile per-packet one-way delay: 32.762 ms
Loss rate: 6.46%
-- Flow 2:
Average throughput: 342.57 Mbit/s
95th percentile per-packet one-way delay: 24.491 ms
Loss rate: 10.74%
-- Flow 3:
Average throughput: 258.66 Mbit/s
95th percentile per-packet one-way delay: 20.430 ms
Loss rate: 13.21%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-05-24 17:07:54

End at: 2018-05-24 17:08:24

Local clock offset: 0.282 ms

Remote clock offset: 0.089 ms

Below is generated by plot.py at 2018-05-24 18:39:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 751.57 Mbit/s

95th percentile per-packet one-way delay: 32.065 ms

Loss rate: 8.14%

-- Flow 1:

Average throughput: 410.42 Mbit/s

95th percentile per-packet one-way delay: 33.680 ms

Loss rate: 6.43%

-- Flow 2:

Average throughput: 334.35 Mbit/s

95th percentile per-packet one-way delay: 25.140 ms

Loss rate: 9.82%

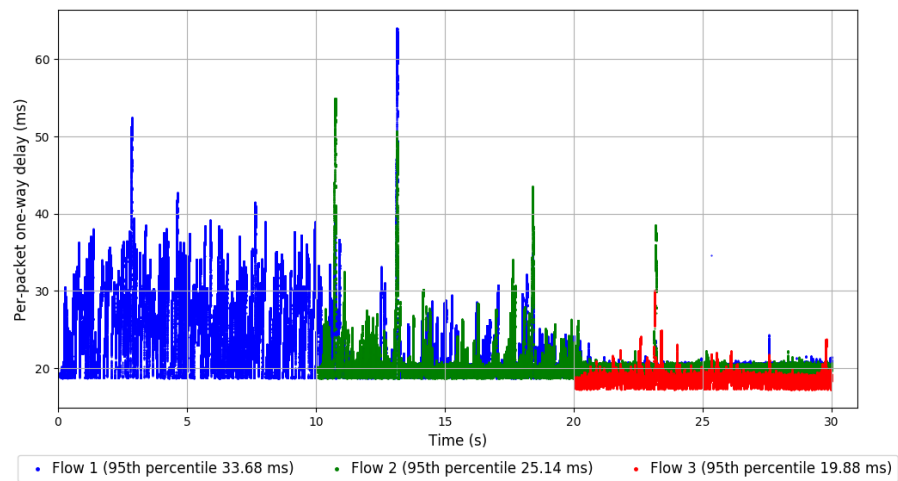
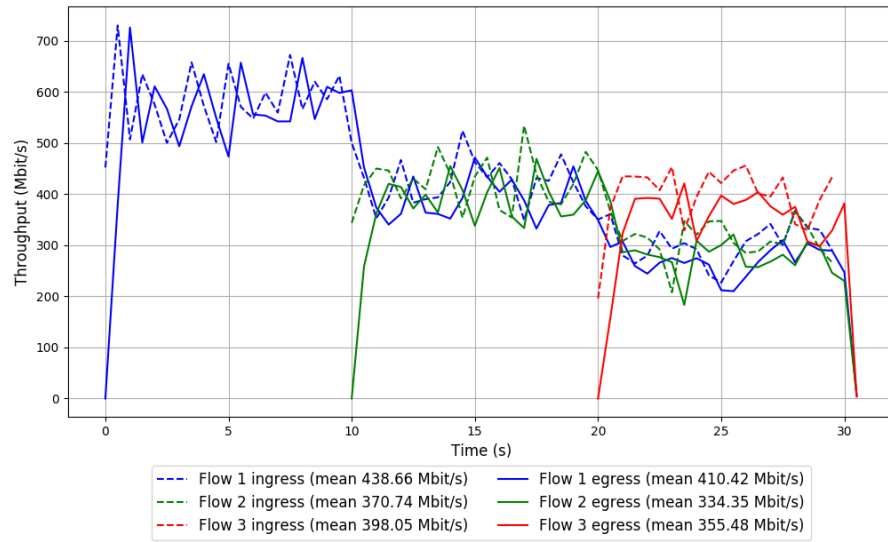
-- Flow 3:

Average throughput: 355.48 Mbit/s

95th percentile per-packet one-way delay: 19.881 ms

Loss rate: 10.68%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-05-24 17:33:46

End at: 2018-05-24 17:34:16

Local clock offset: 0.358 ms

Remote clock offset: 0.174 ms

Below is generated by plot.py at 2018-05-24 18:49:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 808.38 Mbit/s

95th percentile per-packet one-way delay: 31.935 ms

Loss rate: 7.89%

-- Flow 1:

Average throughput: 459.57 Mbit/s

95th percentile per-packet one-way delay: 33.585 ms

Loss rate: 5.81%

-- Flow 2:

Average throughput: 395.81 Mbit/s

95th percentile per-packet one-way delay: 24.087 ms

Loss rate: 9.69%

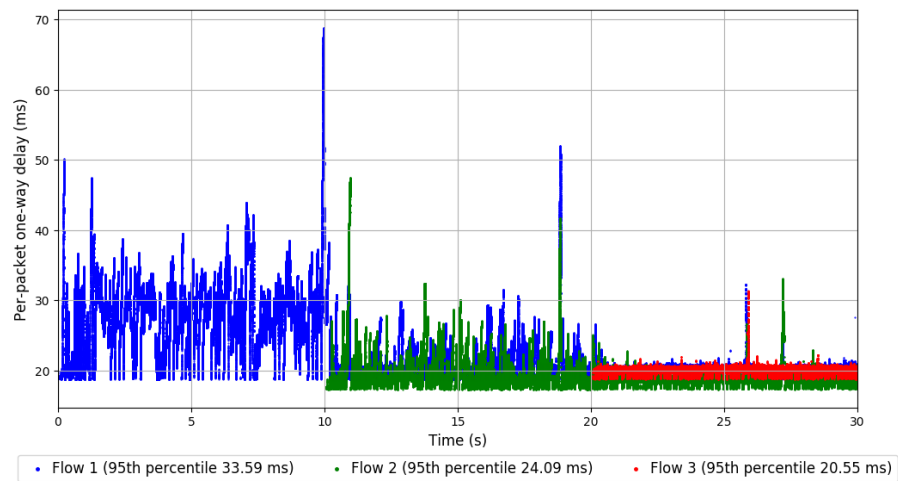
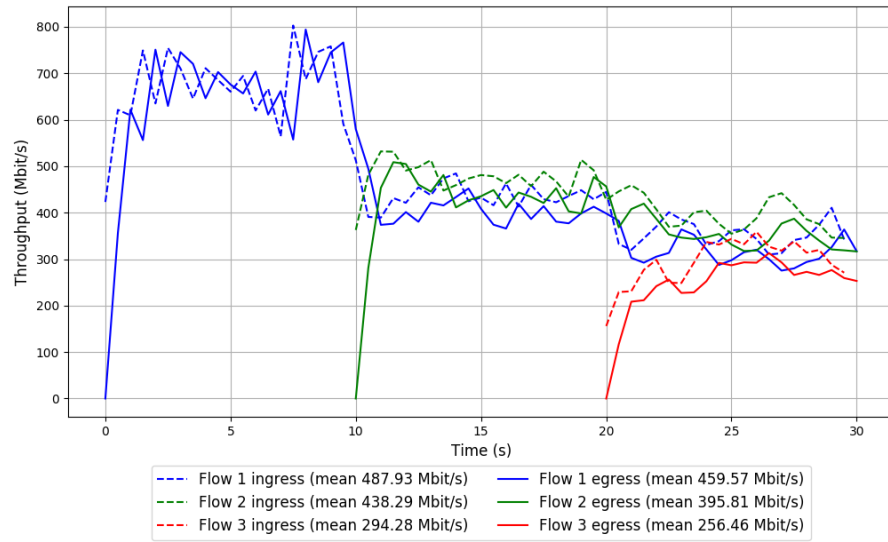
-- Flow 3:

Average throughput: 256.46 Mbit/s

95th percentile per-packet one-way delay: 20.547 ms

Loss rate: 12.86%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-05-24 17:59:14

End at: 2018-05-24 17:59:44

Local clock offset: 0.578 ms

Remote clock offset: 0.299 ms

Below is generated by plot.py at 2018-05-24 18:49:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 808.32 Mbit/s

95th percentile per-packet one-way delay: 30.509 ms

Loss rate: 7.71%

-- Flow 1:

Average throughput: 475.67 Mbit/s

95th percentile per-packet one-way delay: 31.832 ms

Loss rate: 5.87%

-- Flow 2:

Average throughput: 370.13 Mbit/s

95th percentile per-packet one-way delay: 24.004 ms

Loss rate: 9.31%

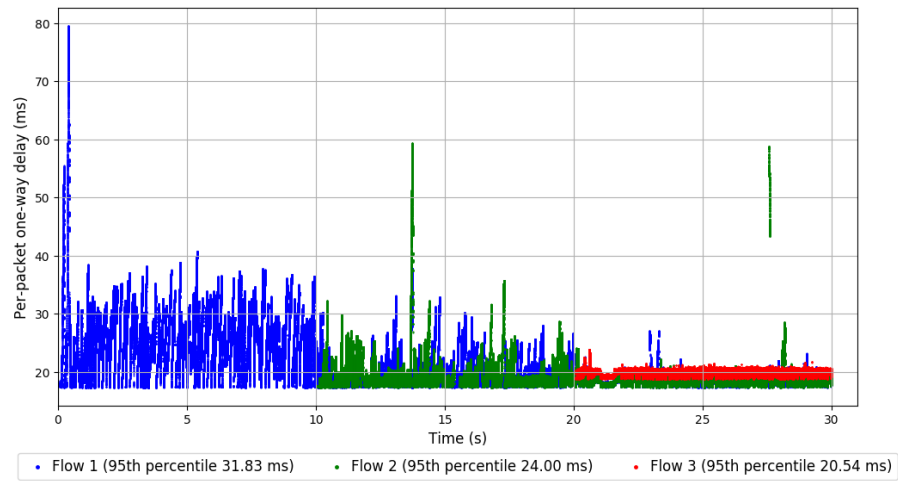
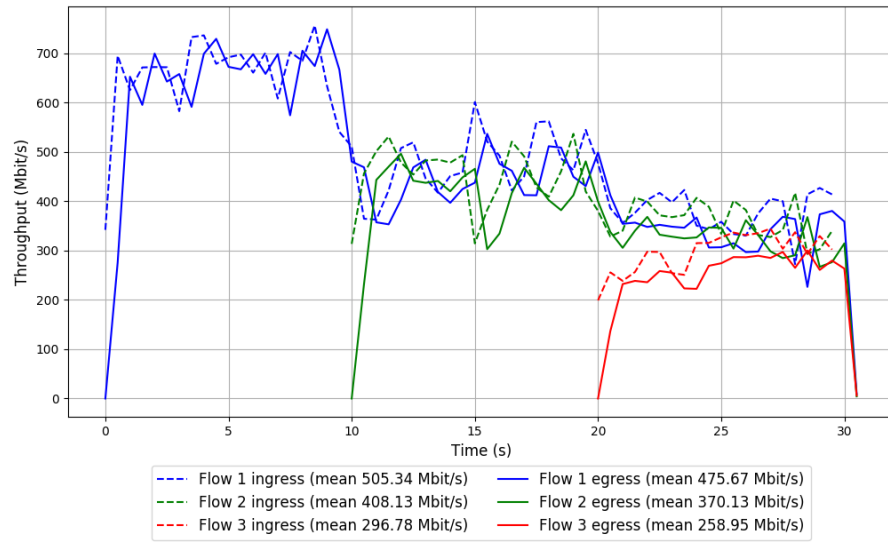
-- Flow 3:

Average throughput: 258.95 Mbit/s

95th percentile per-packet one-way delay: 20.535 ms

Loss rate: 12.74%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-05-24 14:01:29

End at: 2018-05-24 14:01:59

Local clock offset: 0.204 ms

Remote clock offset: 0.12 ms

Below is generated by plot.py at 2018-05-24 18:51:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 496.13 Mbit/s

95th percentile per-packet one-way delay: 21.567 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 274.10 Mbit/s

95th percentile per-packet one-way delay: 21.516 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 233.99 Mbit/s

95th percentile per-packet one-way delay: 20.339 ms

Loss rate: 0.01%

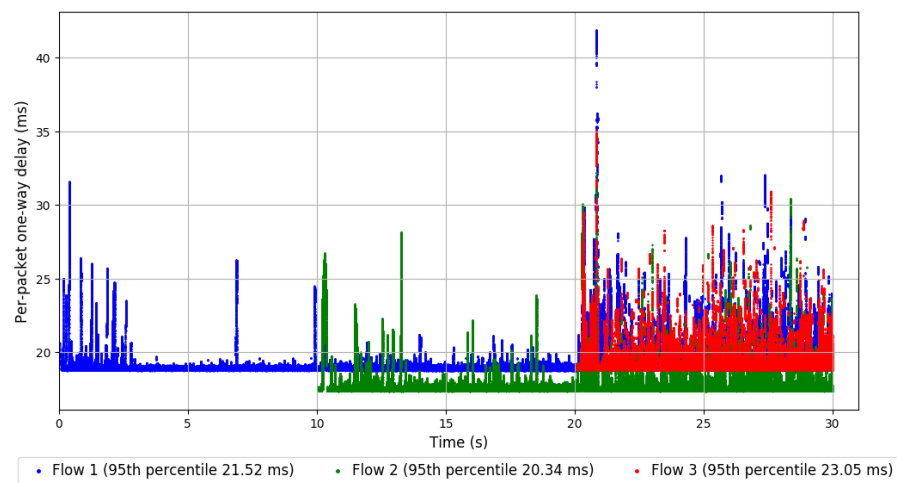
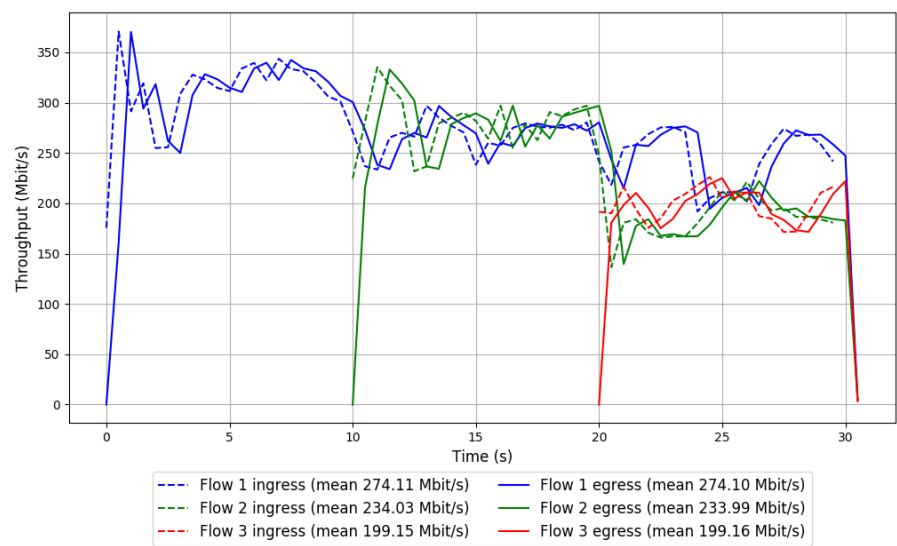
-- Flow 3:

Average throughput: 199.16 Mbit/s

95th percentile per-packet one-way delay: 23.047 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-05-24 14:27:25

End at: 2018-05-24 14:27:55

Local clock offset: 0.54 ms

Remote clock offset: 0.576 ms

Below is generated by plot.py at 2018-05-24 18:51:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 504.95 Mbit/s

95th percentile per-packet one-way delay: 21.301 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 263.16 Mbit/s

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

Loss rate: 0.01%

-- Flow 2:

Average throughput: 256.21 Mbit/s

95th percentile per-packet one-way delay: 22.646 ms

Loss rate: 0.02%

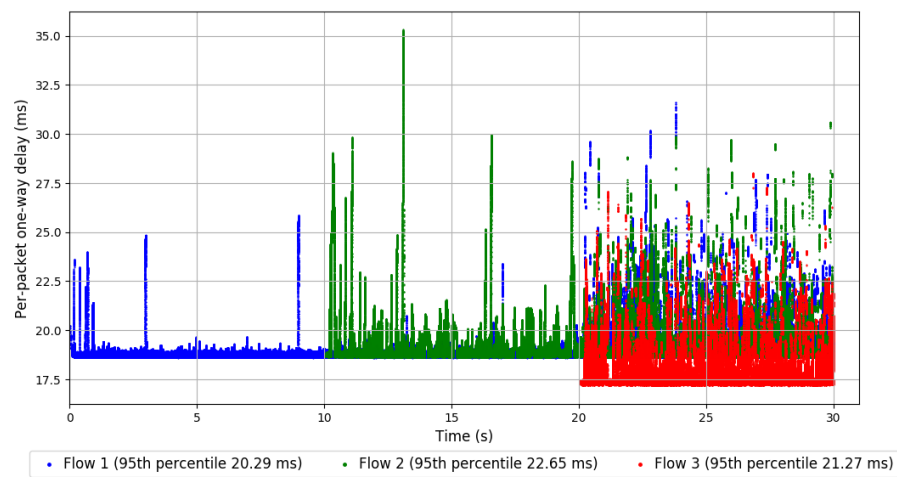
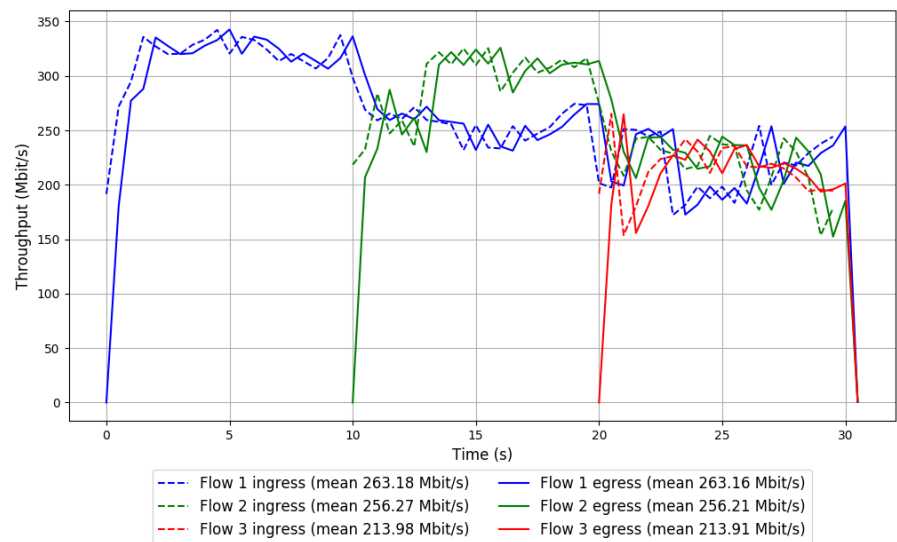
-- Flow 3:

Average throughput: 213.91 Mbit/s

95th percentile per-packet one-way delay: 21.273 ms

Loss rate: 0.03%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-05-24 14:53:24

End at: 2018-05-24 14:53:54

Local clock offset: 0.199 ms

Remote clock offset: 1.13 ms

Below is generated by plot.py at 2018-05-24 18:51:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 496.79 Mbit/s

95th percentile per-packet one-way delay: 21.502 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 294.53 Mbit/s

95th percentile per-packet one-way delay: 21.090 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 185.83 Mbit/s

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

Loss rate: 0.00%

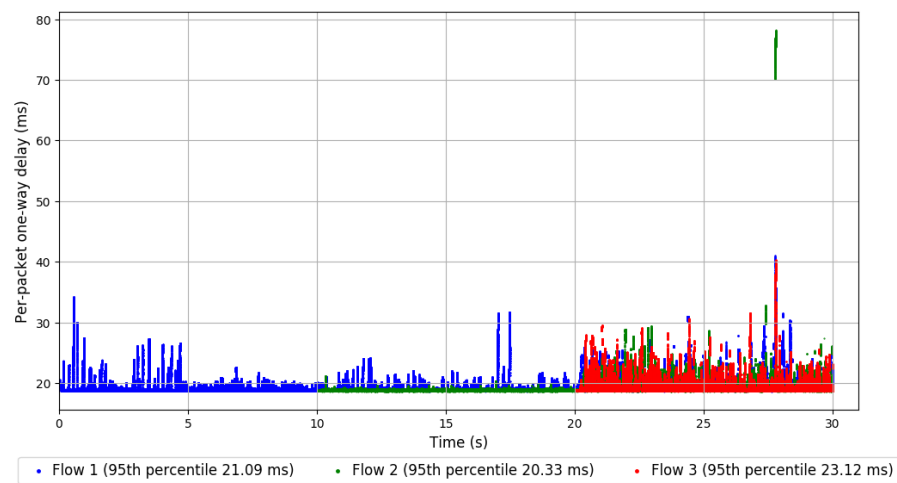
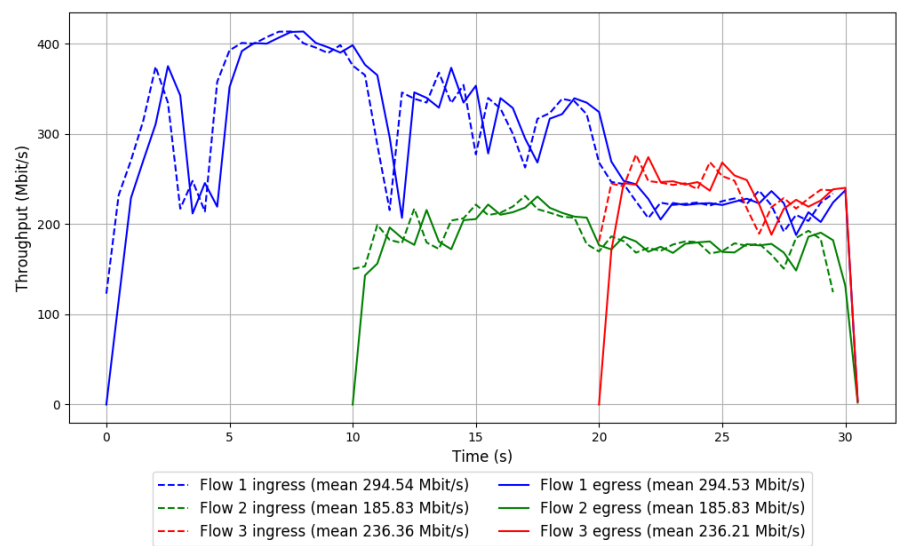
-- Flow 3:

Average throughput: 236.21 Mbit/s

95th percentile per-packet one-way delay: 23.125 ms

Loss rate: 0.06%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-05-24 15:19:34

End at: 2018-05-24 15:20:04

Local clock offset: 0.241 ms

Remote clock offset: 0.804 ms

Below is generated by plot.py at 2018-05-24 18:51:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 516.39 Mbit/s

95th percentile per-packet one-way delay: 21.749 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 277.01 Mbit/s

95th percentile per-packet one-way delay: 19.989 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 248.89 Mbit/s

95th percentile per-packet one-way delay: 22.710 ms

Loss rate: 0.01%

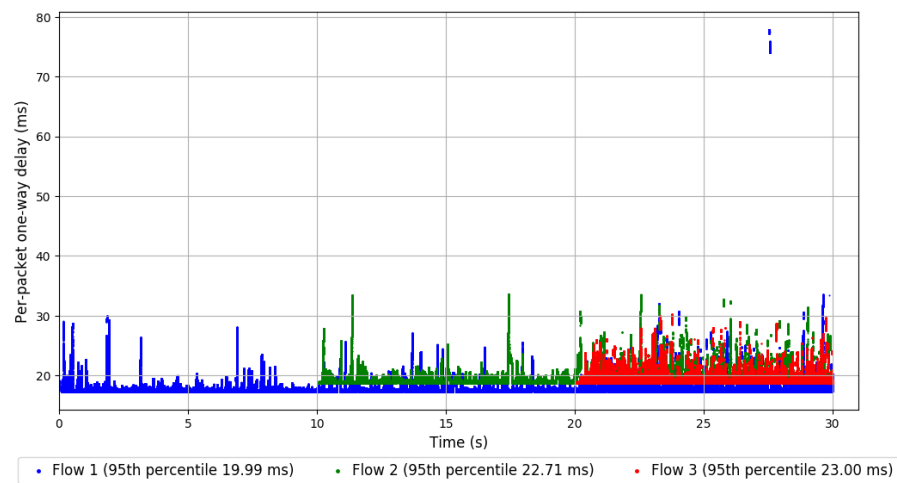
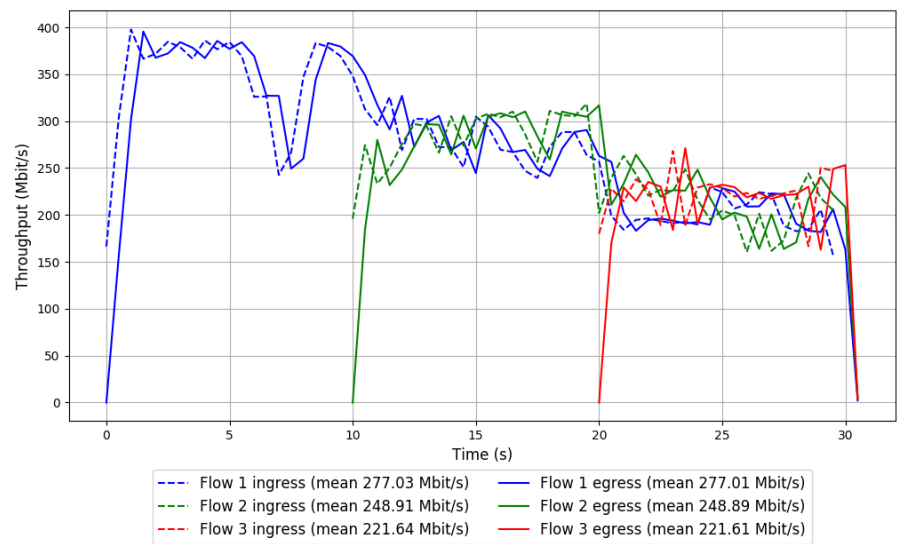
-- Flow 3:

Average throughput: 221.61 Mbit/s

95th percentile per-packet one-way delay: 23.003 ms

Loss rate: 0.01%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-05-24 15:45:17

End at: 2018-05-24 15:45:47

Local clock offset: 0.372 ms

Remote clock offset: 0.391 ms

Below is generated by plot.py at 2018-05-24 18:51:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 507.80 Mbit/s

95th percentile per-packet one-way delay: 22.015 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 274.44 Mbit/s

95th percentile per-packet one-way delay: 21.156 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 235.53 Mbit/s

95th percentile per-packet one-way delay: 22.358 ms

Loss rate: 0.02%

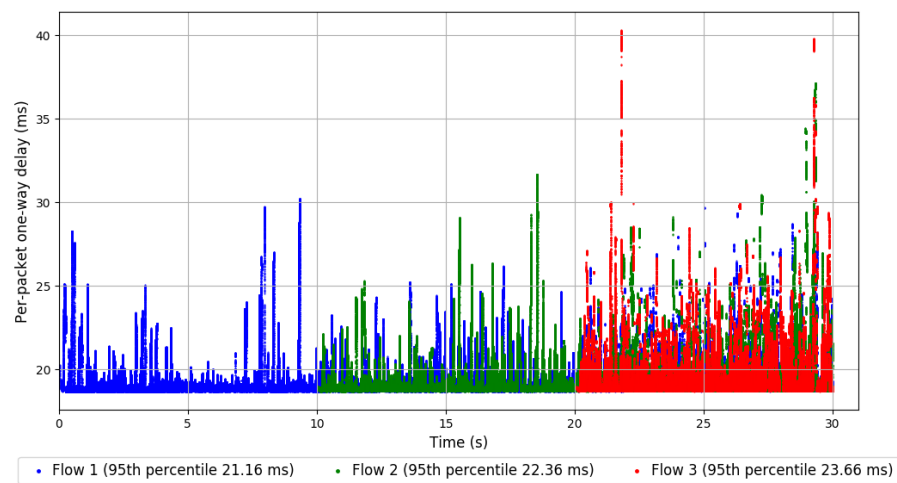
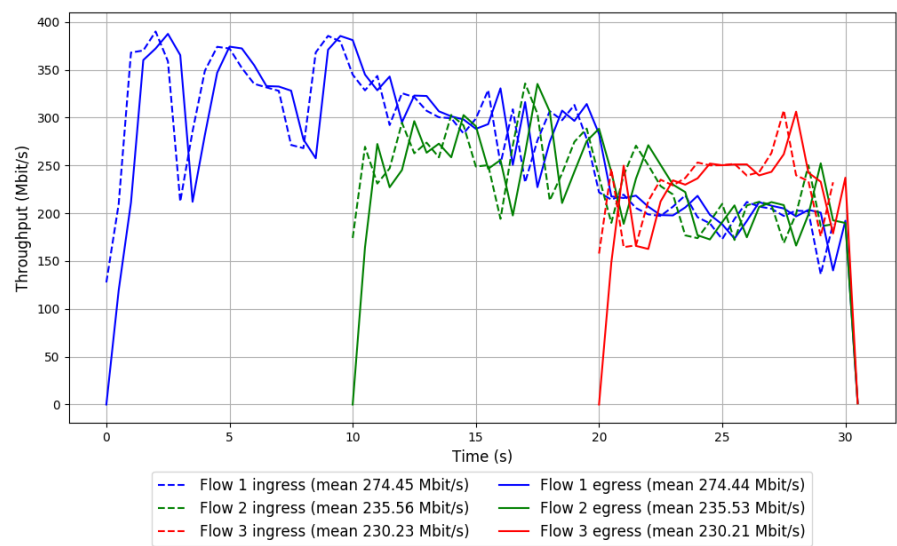
-- Flow 3:

Average throughput: 230.21 Mbit/s

95th percentile per-packet one-way delay: 23.656 ms

Loss rate: 0.02%

Run 5: Report of Copa — Data Link

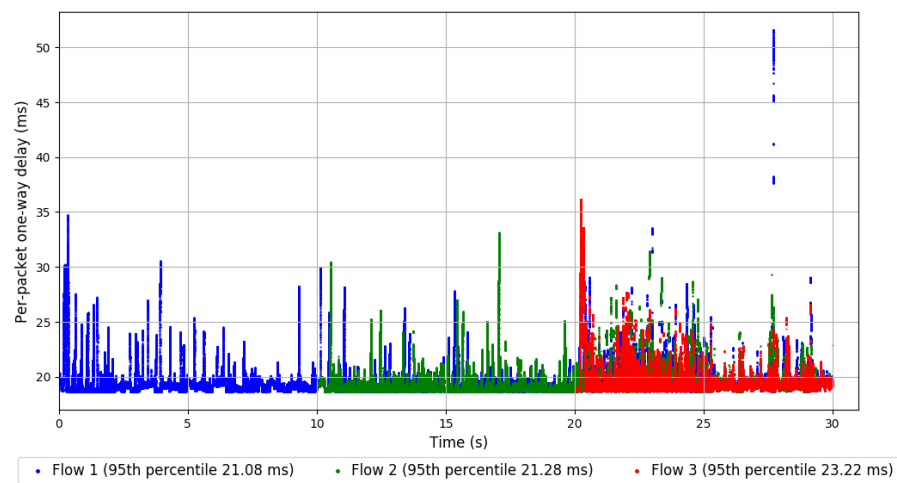
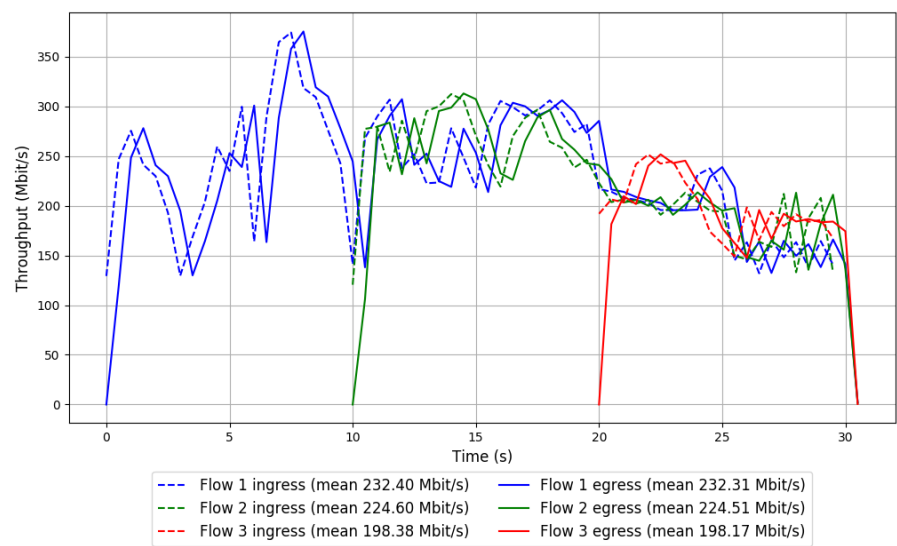


Run 6: Statistics of Copa

Start at: 2018-05-24 16:11:08
End at: 2018-05-24 16:11:38
Local clock offset: 0.206 ms
Remote clock offset: -0.158 ms

Below is generated by plot.py at 2018-05-24 18:51:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 447.87 Mbit/s
95th percentile per-packet one-way delay: 21.475 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 232.31 Mbit/s
95th percentile per-packet one-way delay: 21.081 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 224.51 Mbit/s
95th percentile per-packet one-way delay: 21.279 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 198.17 Mbit/s
95th percentile per-packet one-way delay: 23.222 ms
Loss rate: 0.08%

Run 6: Report of Copa — Data Link

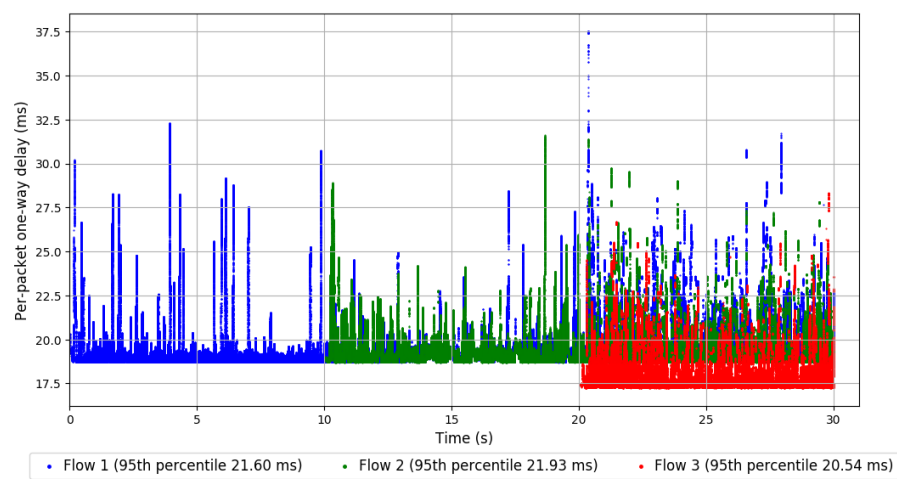
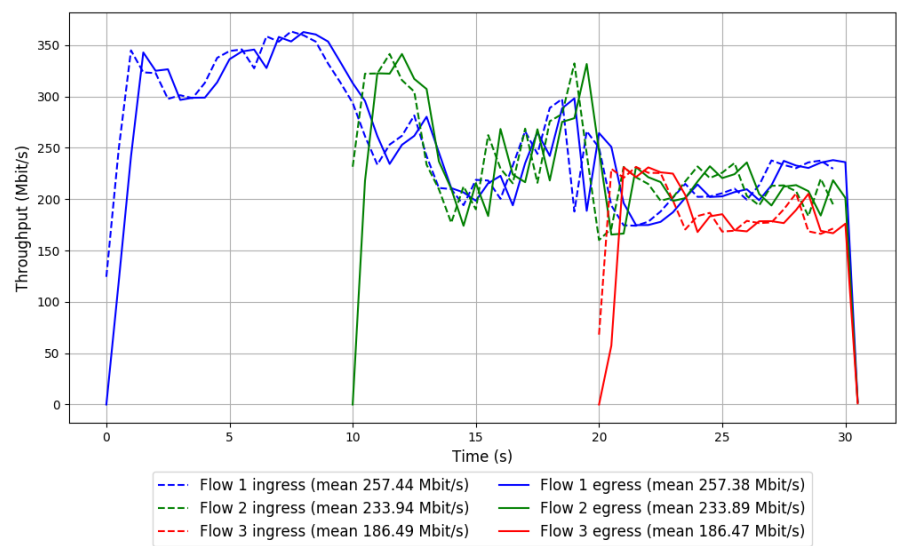


Run 7: Statistics of Copa

Start at: 2018-05-24 16:36:53
End at: 2018-05-24 16:37:23
Local clock offset: 0.181 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2018-05-24 19:01:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 475.10 Mbit/s
95th percentile per-packet one-way delay: 21.599 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 257.38 Mbit/s
95th percentile per-packet one-way delay: 21.600 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 233.89 Mbit/s
95th percentile per-packet one-way delay: 21.927 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 186.47 Mbit/s
95th percentile per-packet one-way delay: 20.538 ms
Loss rate: 0.01%

Run 7: Report of Copa — Data Link

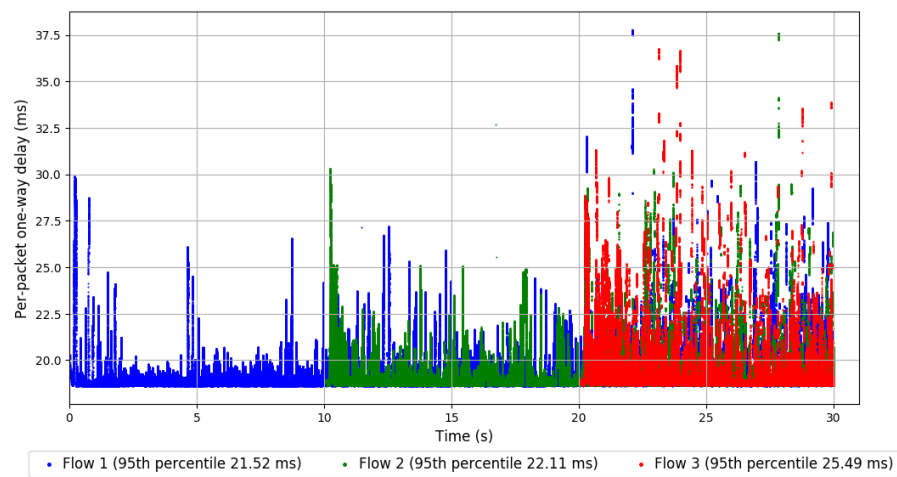
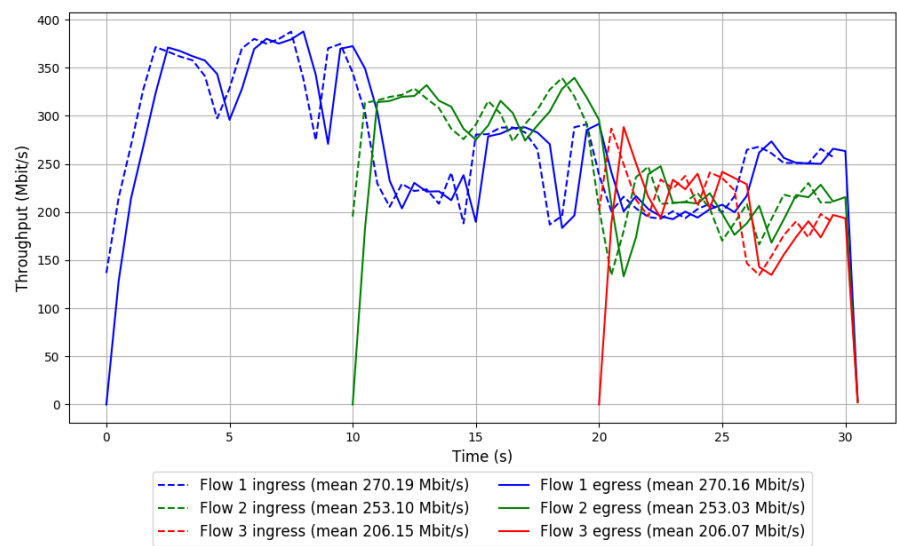


Run 8: Statistics of Copa

Start at: 2018-05-24 17:02:28
End at: 2018-05-24 17:02:58
Local clock offset: 0.226 ms
Remote clock offset: -0.009 ms

```
# Below is generated by plot.py at 2018-05-24 19:02:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 507.08 Mbit/s
95th percentile per-packet one-way delay: 22.297 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 270.16 Mbit/s
95th percentile per-packet one-way delay: 21.520 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 253.03 Mbit/s
95th percentile per-packet one-way delay: 22.107 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 206.07 Mbit/s
95th percentile per-packet one-way delay: 25.487 ms
Loss rate: 0.04%
```

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-05-24 17:28:28

End at: 2018-05-24 17:28:58

Local clock offset: 0.308 ms

Remote clock offset: 0.12 ms

Below is generated by plot.py at 2018-05-24 19:02:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 459.81 Mbit/s

95th percentile per-packet one-way delay: 22.543 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 212.55 Mbit/s

95th percentile per-packet one-way delay: 21.190 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 269.14 Mbit/s

95th percentile per-packet one-way delay: 23.588 ms

Loss rate: 0.04%

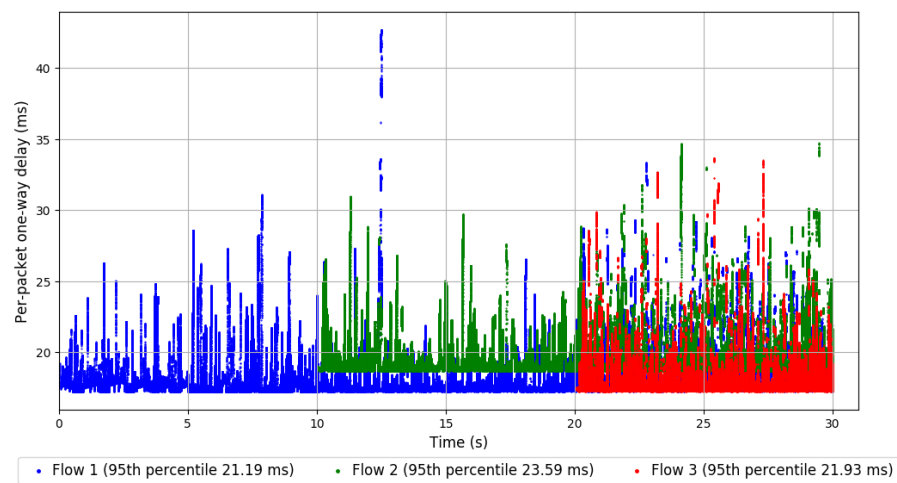
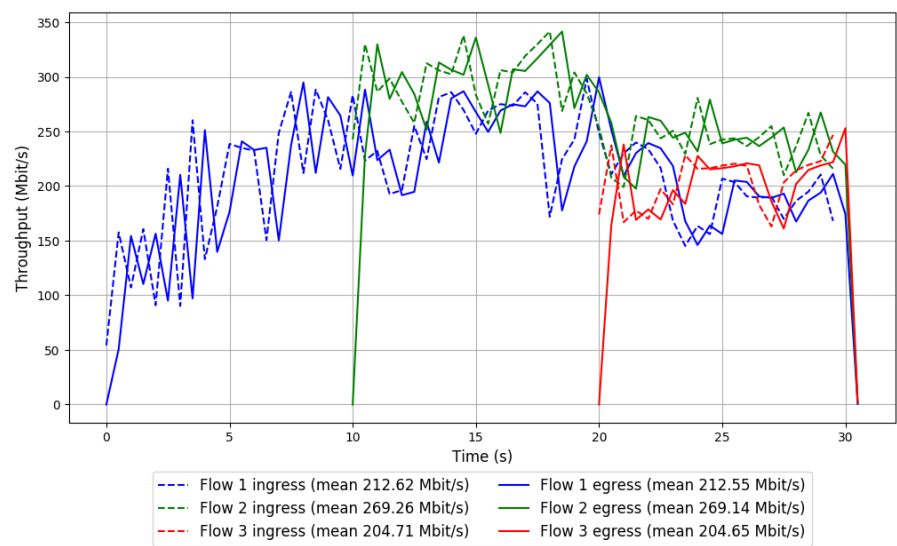
-- Flow 3:

Average throughput: 204.65 Mbit/s

95th percentile per-packet one-way delay: 21.928 ms

Loss rate: 0.01%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-05-24 17:53:51

End at: 2018-05-24 17:54:21

Local clock offset: 0.651 ms

Remote clock offset: 0.21 ms

Below is generated by plot.py at 2018-05-24 19:03:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 514.39 Mbit/s

95th percentile per-packet one-way delay: 22.247 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 280.24 Mbit/s

95th percentile per-packet one-way delay: 21.904 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 246.12 Mbit/s

95th percentile per-packet one-way delay: 22.519 ms

Loss rate: 0.01%

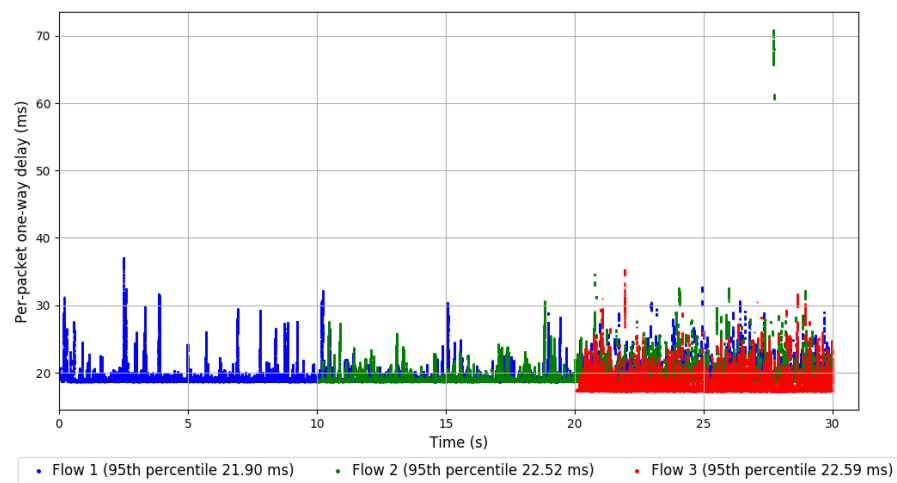
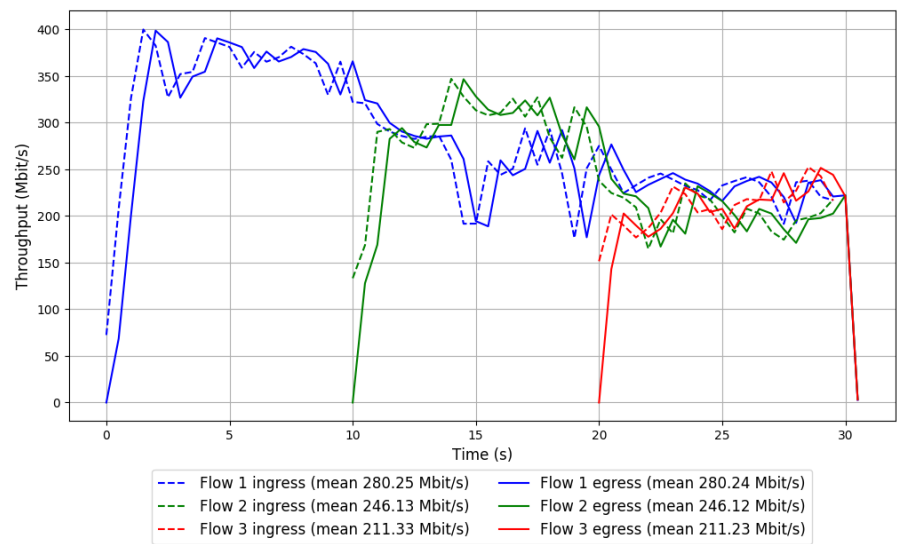
-- Flow 3:

Average throughput: 211.23 Mbit/s

95th percentile per-packet one-way delay: 22.587 ms

Loss rate: 0.03%

Run 10: Report of Copa — Data Link

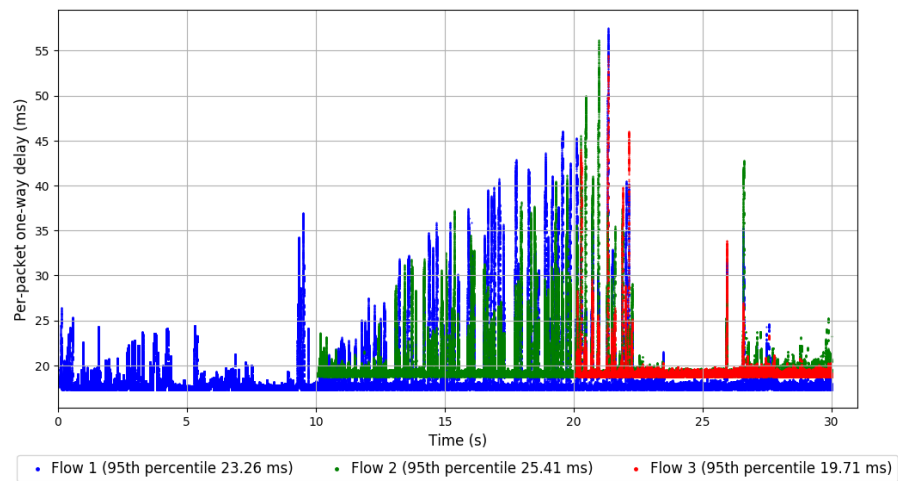
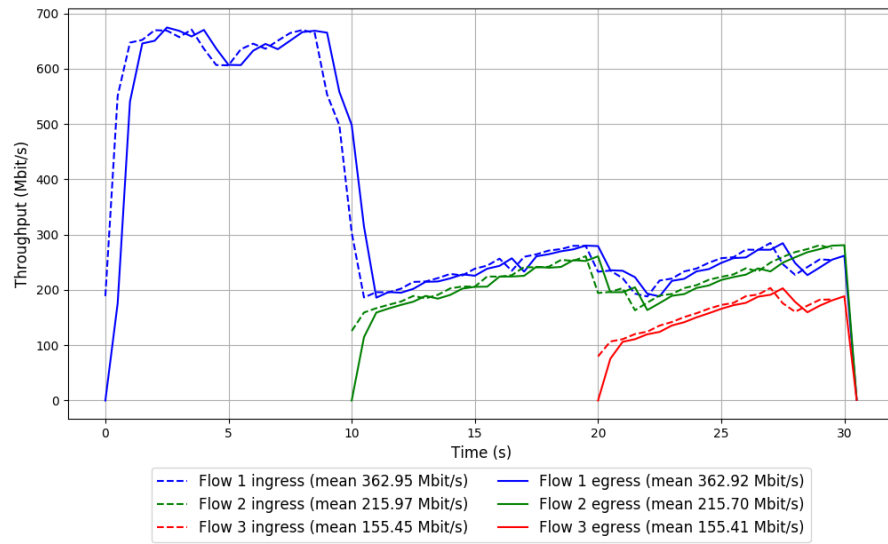


Run 1: Statistics of TCP Cubic

Start at: 2018-05-24 13:56:25
End at: 2018-05-24 13:56:55
Local clock offset: 0.157 ms
Remote clock offset: -0.016 ms

Below is generated by plot.py at 2018-05-24 19:03:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 558.28 Mbit/s
95th percentile per-packet one-way delay: 23.458 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 362.92 Mbit/s
95th percentile per-packet one-way delay: 23.257 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 215.70 Mbit/s
95th percentile per-packet one-way delay: 25.406 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 155.41 Mbit/s
95th percentile per-packet one-way delay: 19.714 ms
Loss rate: 0.04%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-05-24 14:22:20

End at: 2018-05-24 14:22:50

Local clock offset: 0.524 ms

Remote clock offset: 0.515 ms

Below is generated by plot.py at 2018-05-24 19:03:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 508.52 Mbit/s

95th percentile per-packet one-way delay: 25.557 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 348.53 Mbit/s

95th percentile per-packet one-way delay: 26.630 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 159.17 Mbit/s

95th percentile per-packet one-way delay: 22.331 ms

Loss rate: 0.08%

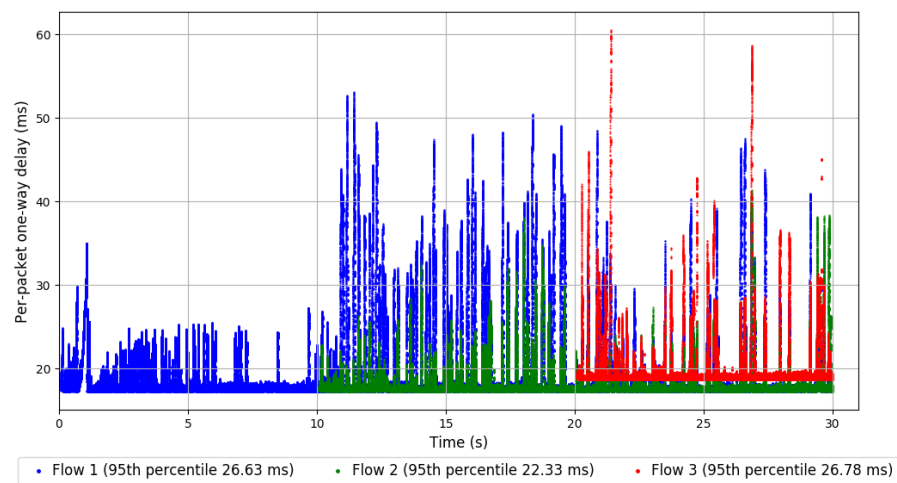
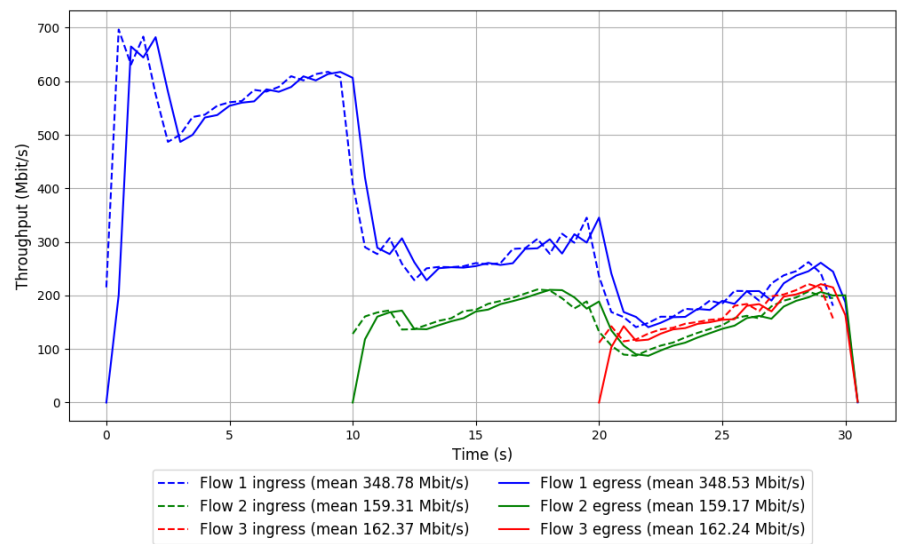
-- Flow 3:

Average throughput: 162.24 Mbit/s

95th percentile per-packet one-way delay: 26.781 ms

Loss rate: 0.07%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-05-24 14:48:25

End at: 2018-05-24 14:48:55

Local clock offset: 0.136 ms

Remote clock offset: 1.034 ms

Below is generated by plot.py at 2018-05-24 19:03:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 393.64 Mbit/s

95th percentile per-packet one-way delay: 23.435 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 255.27 Mbit/s

95th percentile per-packet one-way delay: 23.501 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 108.60 Mbit/s

95th percentile per-packet one-way delay: 20.946 ms

Loss rate: 0.06%

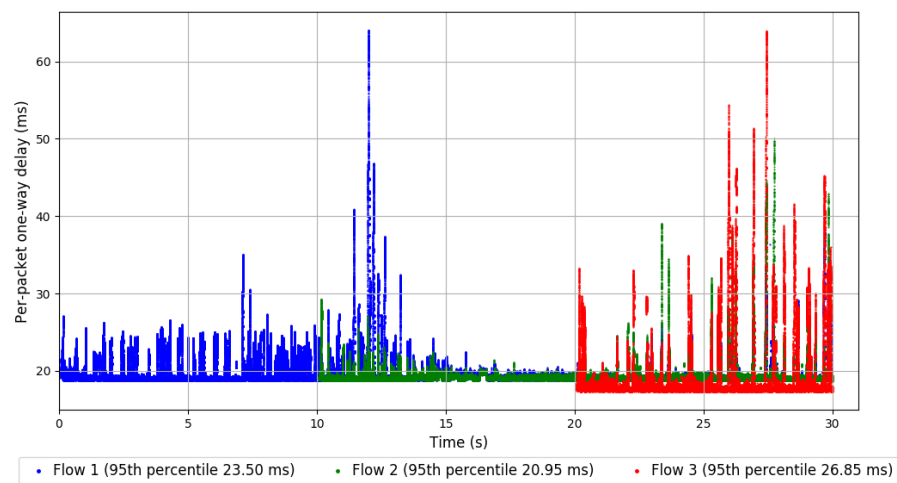
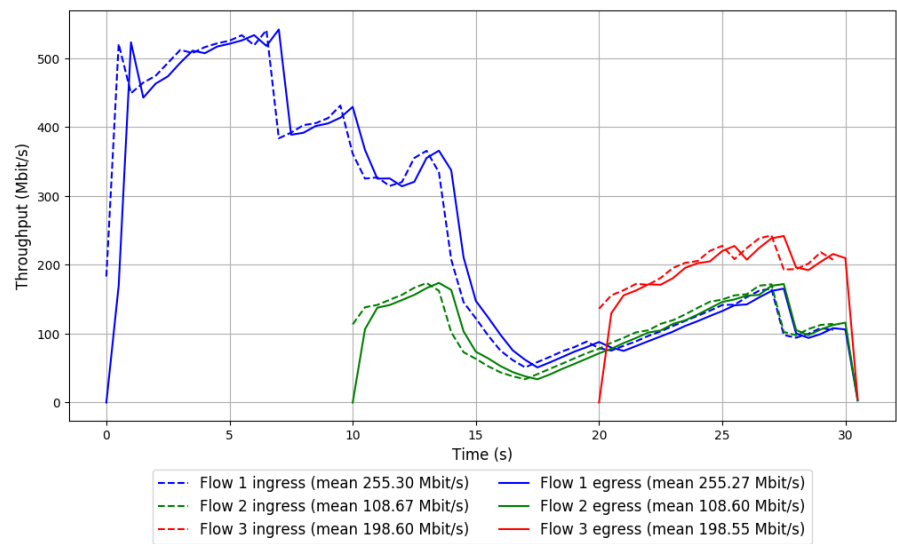
-- Flow 3:

Average throughput: 198.55 Mbit/s

95th percentile per-packet one-way delay: 26.852 ms

Loss rate: 0.02%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-05-24 15:14:31

End at: 2018-05-24 15:15:01

Local clock offset: 0.23 ms

Remote clock offset: 1.092 ms

Below is generated by plot.py at 2018-05-24 19:03:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 400.64 Mbit/s

95th percentile per-packet one-way delay: 24.023 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 248.68 Mbit/s

95th percentile per-packet one-way delay: 24.490 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 160.93 Mbit/s

95th percentile per-packet one-way delay: 23.361 ms

Loss rate: 0.04%

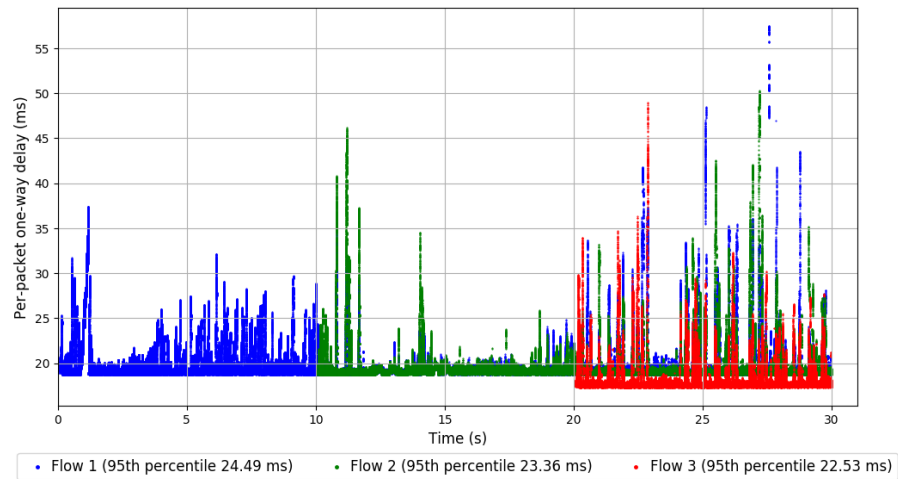
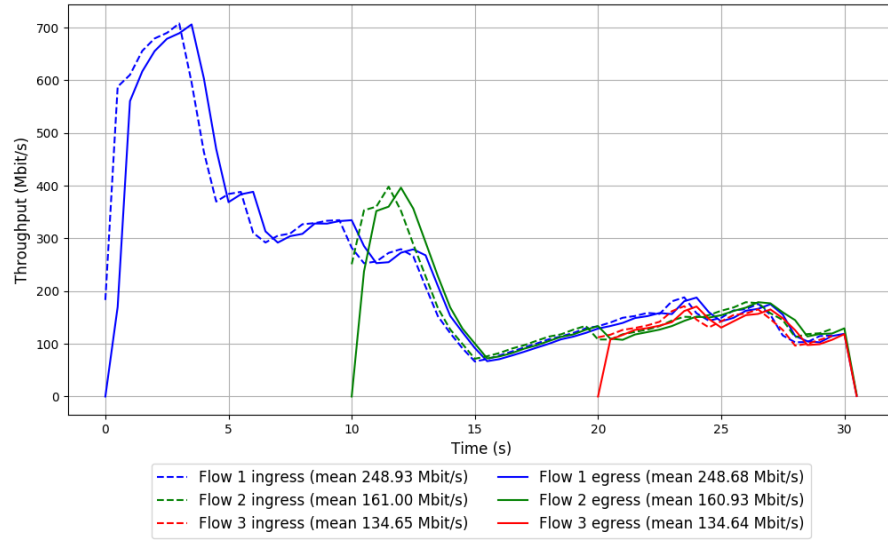
-- Flow 3:

Average throughput: 134.64 Mbit/s

95th percentile per-packet one-way delay: 22.532 ms

Loss rate: 0.01%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-05-24 15:40:11

End at: 2018-05-24 15:40:41

Local clock offset: 0.382 ms

Remote clock offset: 0.458 ms

Below is generated by plot.py at 2018-05-24 19:03:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 424.83 Mbit/s

95th percentile per-packet one-way delay: 24.695 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 269.57 Mbit/s

95th percentile per-packet one-way delay: 25.456 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 139.04 Mbit/s

95th percentile per-packet one-way delay: 23.484 ms

Loss rate: 0.13%

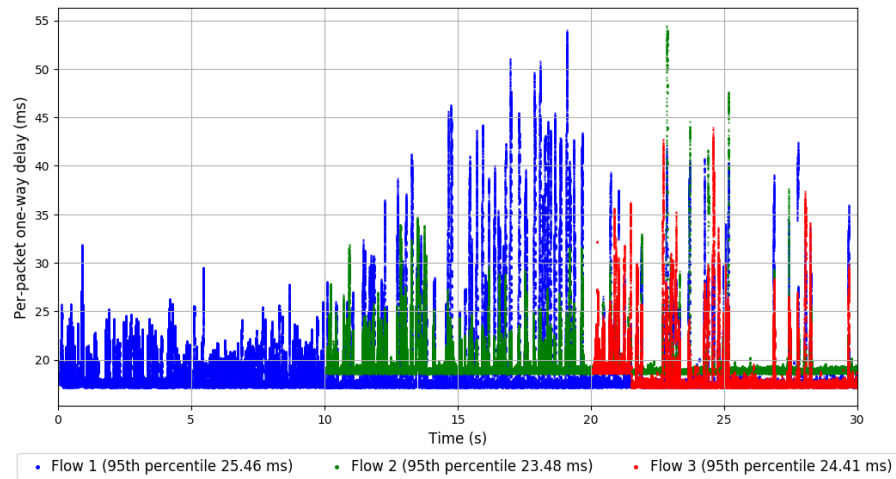
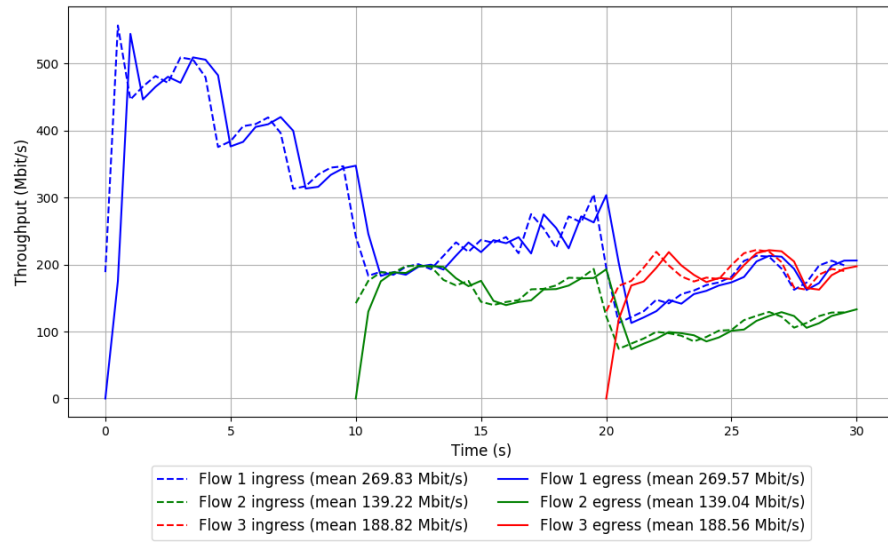
-- Flow 3:

Average throughput: 188.56 Mbit/s

95th percentile per-packet one-way delay: 24.408 ms

Loss rate: 0.15%

Run 5: Report of TCP Cubic — Data Link

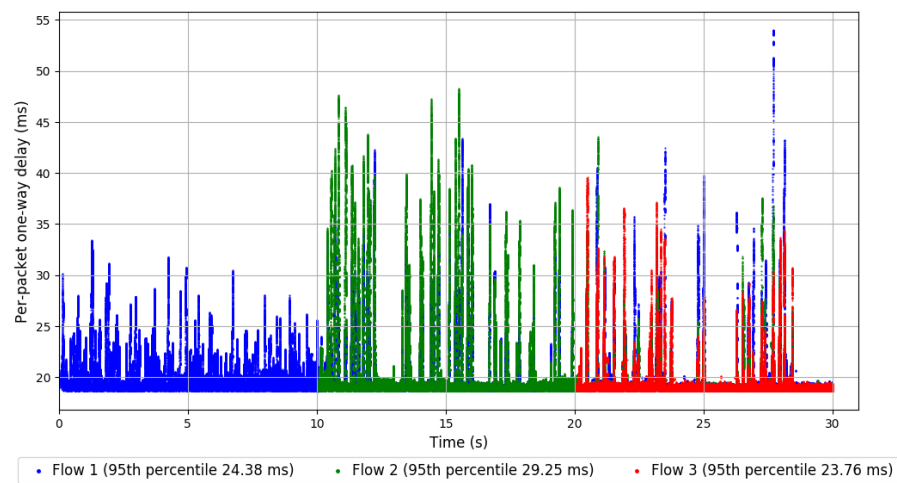
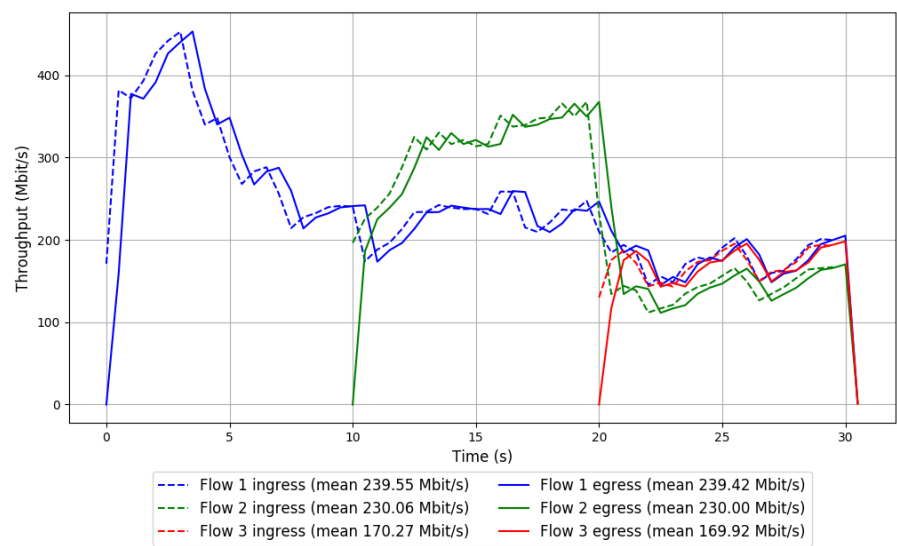


Run 6: Statistics of TCP Cubic

Start at: 2018-05-24 16:06:02
End at: 2018-05-24 16:06:32
Local clock offset: 0.271 ms
Remote clock offset: -0.164 ms

Below is generated by plot.py at 2018-05-24 19:03:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 449.02 Mbit/s
95th percentile per-packet one-way delay: 25.488 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 239.42 Mbit/s
95th percentile per-packet one-way delay: 24.376 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 230.00 Mbit/s
95th percentile per-packet one-way delay: 29.251 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 169.92 Mbit/s
95th percentile per-packet one-way delay: 23.763 ms
Loss rate: 0.23%

Run 6: Report of TCP Cubic — Data Link

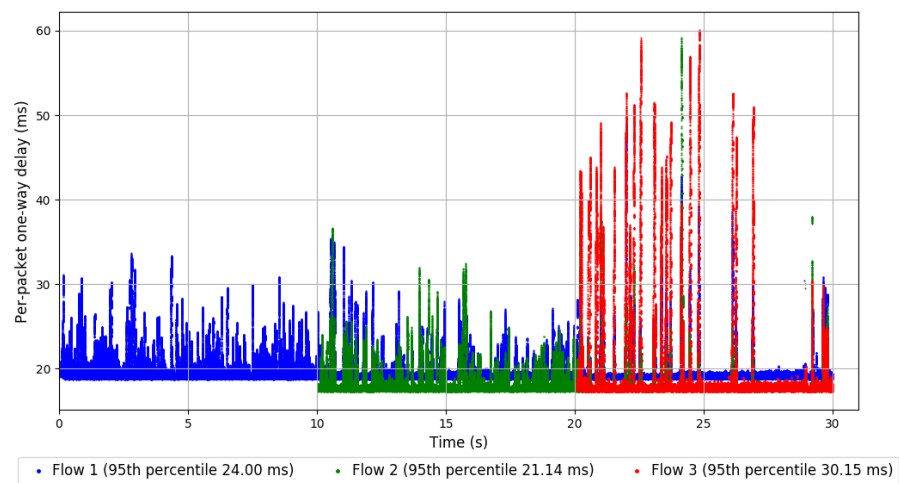
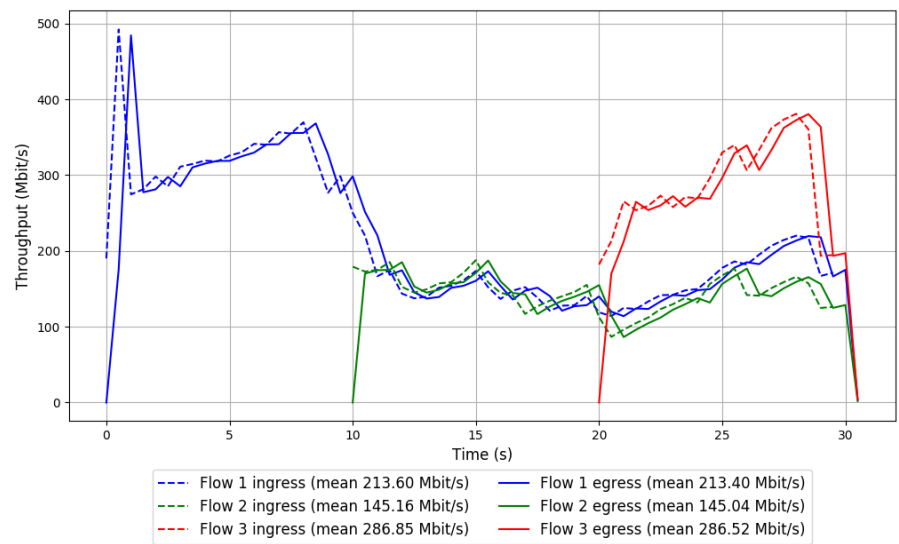


Run 7: Statistics of TCP Cubic

Start at: 2018-05-24 16:31:56
End at: 2018-05-24 16:32:26
Local clock offset: 0.14 ms
Remote clock offset: -0.049 ms

Below is generated by plot.py at 2018-05-24 19:03:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 405.16 Mbit/s
95th percentile per-packet one-way delay: 23.723 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 213.40 Mbit/s
95th percentile per-packet one-way delay: 24.001 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 145.04 Mbit/s
95th percentile per-packet one-way delay: 21.138 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 286.52 Mbit/s
95th percentile per-packet one-way delay: 30.148 ms
Loss rate: 0.11%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-05-24 16:57:33

End at: 2018-05-24 16:58:03

Local clock offset: 0.109 ms

Remote clock offset: 0.017 ms

Below is generated by plot.py at 2018-05-24 19:04:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 445.82 Mbit/s

95th percentile per-packet one-way delay: 25.430 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 215.06 Mbit/s

95th percentile per-packet one-way delay: 25.222 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 164.95 Mbit/s

95th percentile per-packet one-way delay: 25.587 ms

Loss rate: 0.16%

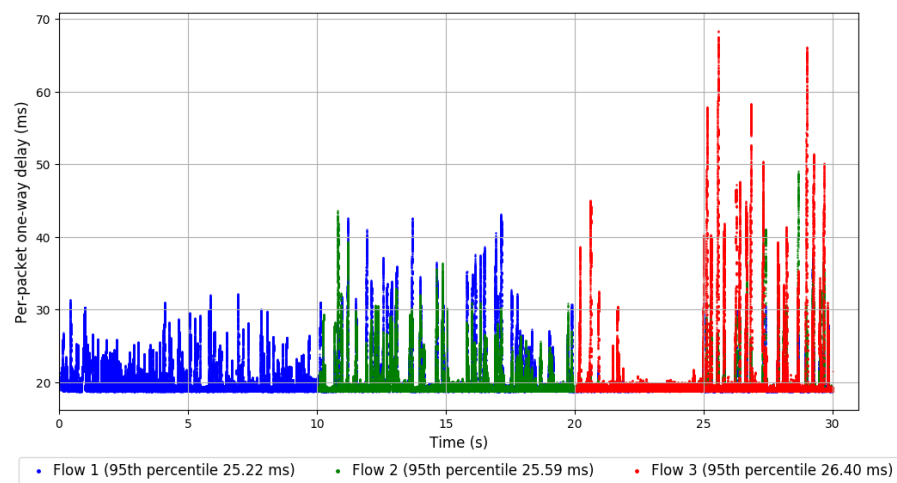
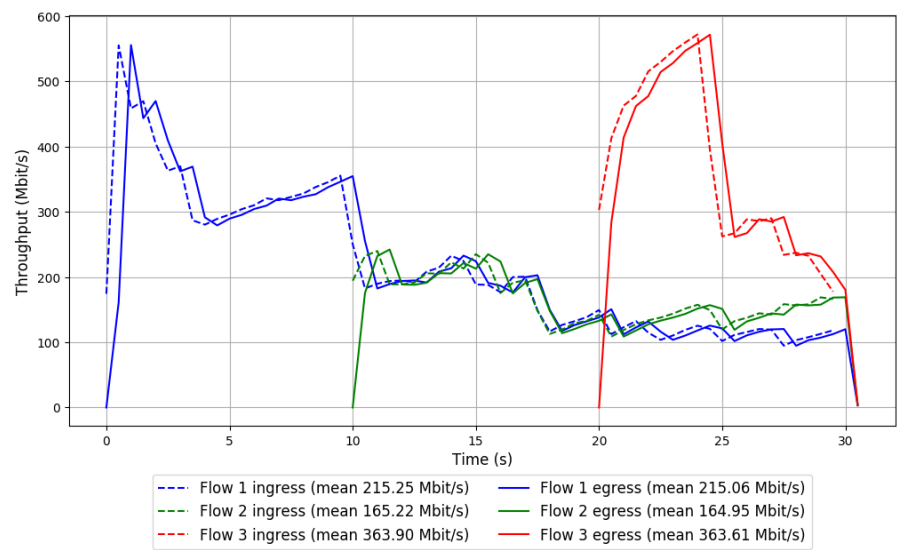
-- Flow 3:

Average throughput: 363.61 Mbit/s

95th percentile per-packet one-way delay: 26.398 ms

Loss rate: 0.05%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-05-24 17:23:18

End at: 2018-05-24 17:23:48

Local clock offset: 0.304 ms

Remote clock offset: 0.116 ms

Below is generated by plot.py at 2018-05-24 19:08:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 560.99 Mbit/s

95th percentile per-packet one-way delay: 21.365 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 219.05 Mbit/s

95th percentile per-packet one-way delay: 21.582 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 438.56 Mbit/s

95th percentile per-packet one-way delay: 21.984 ms

Loss rate: 0.01%

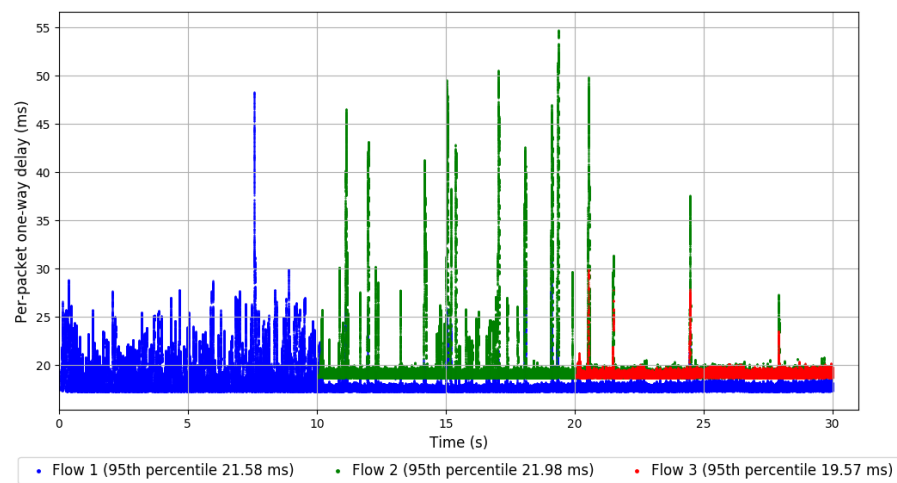
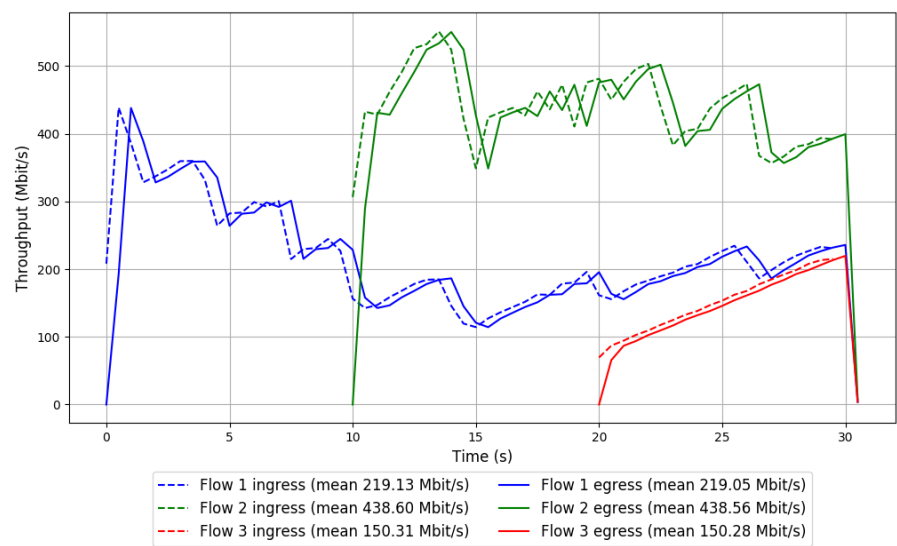
-- Flow 3:

Average throughput: 150.28 Mbit/s

95th percentile per-packet one-way delay: 19.569 ms

Loss rate: 0.02%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-05-24 17:48:59

End at: 2018-05-24 17:49:29

Local clock offset: 0.619 ms

Remote clock offset: 0.245 ms

Below is generated by plot.py at 2018-05-24 19:08:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 346.98 Mbit/s

95th percentile per-packet one-way delay: 23.432 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 175.50 Mbit/s

95th percentile per-packet one-way delay: 23.524 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 148.19 Mbit/s

95th percentile per-packet one-way delay: 22.393 ms

Loss rate: 0.12%

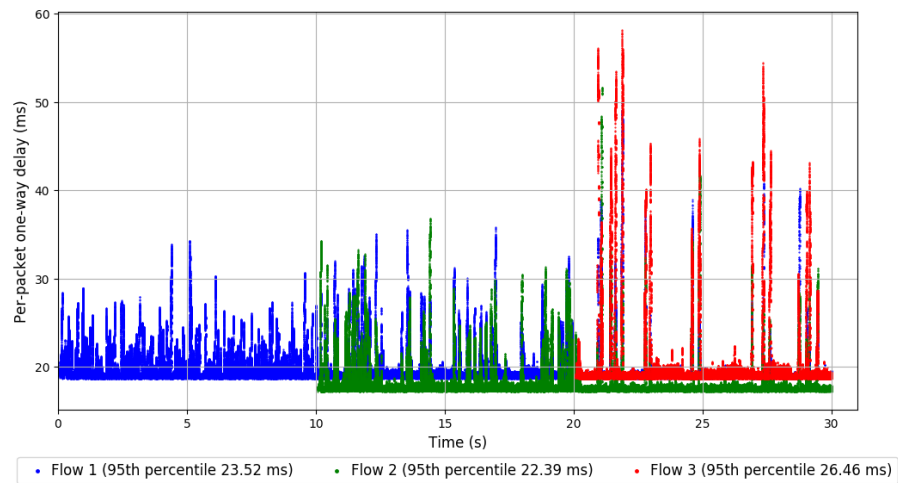
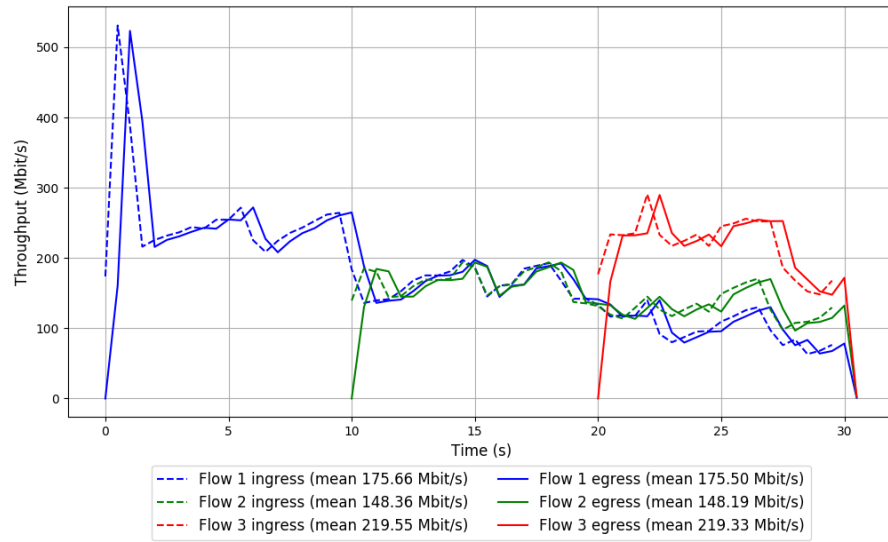
-- Flow 3:

Average throughput: 219.33 Mbit/s

95th percentile per-packet one-way delay: 26.462 ms

Loss rate: 0.10%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-05-24 14:05:04

End at: 2018-05-24 14:05:34

Local clock offset: 0.375 ms

Remote clock offset: 0.136 ms

Below is generated by plot.py at 2018-05-24 19:17:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 854.16 Mbit/s

95th percentile per-packet one-way delay: 103.476 ms

Loss rate: 12.69%

-- Flow 1:

Average throughput: 554.13 Mbit/s

95th percentile per-packet one-way delay: 104.931 ms

Loss rate: 7.25%

-- Flow 2:

Average throughput: 388.73 Mbit/s

95th percentile per-packet one-way delay: 103.422 ms

Loss rate: 21.67%

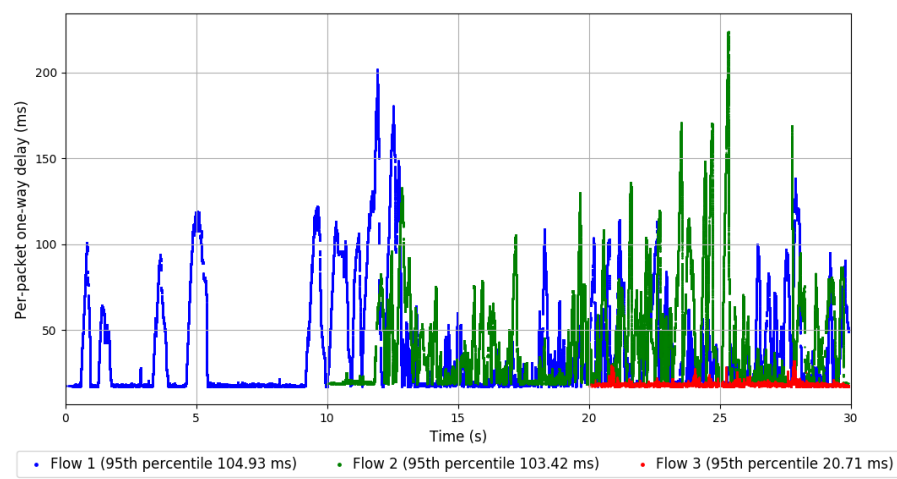
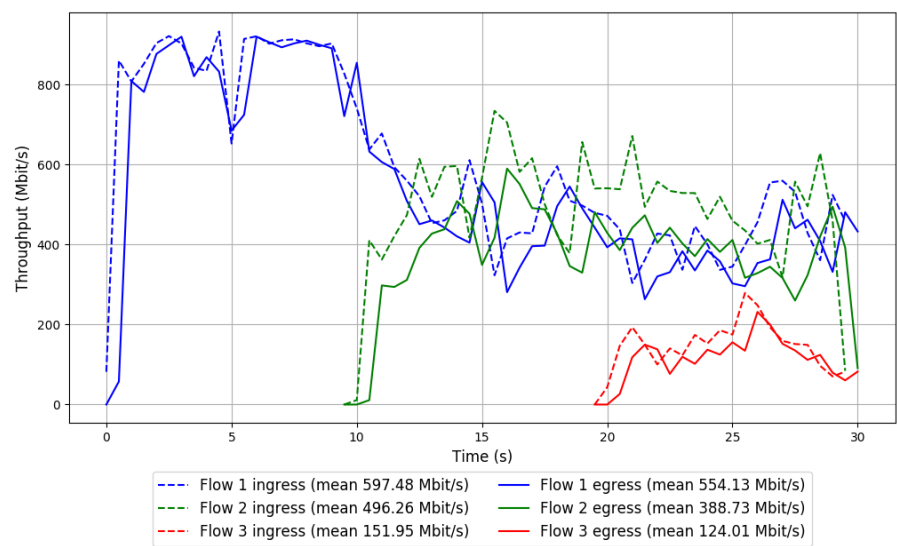
-- Flow 3:

Average throughput: 124.01 Mbit/s

95th percentile per-packet one-way delay: 20.707 ms

Loss rate: 18.39%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-05-24 14:31:06

End at: 2018-05-24 14:31:36

Local clock offset: 0.481 ms

Remote clock offset: 0.673 ms

Below is generated by plot.py at 2018-05-24 19:17:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 804.68 Mbit/s

95th percentile per-packet one-way delay: 117.504 ms

Loss rate: 15.67%

-- Flow 1:

Average throughput: 541.50 Mbit/s

95th percentile per-packet one-way delay: 122.720 ms

Loss rate: 13.89%

-- Flow 2:

Average throughput: 235.56 Mbit/s

95th percentile per-packet one-way delay: 110.038 ms

Loss rate: 17.82%

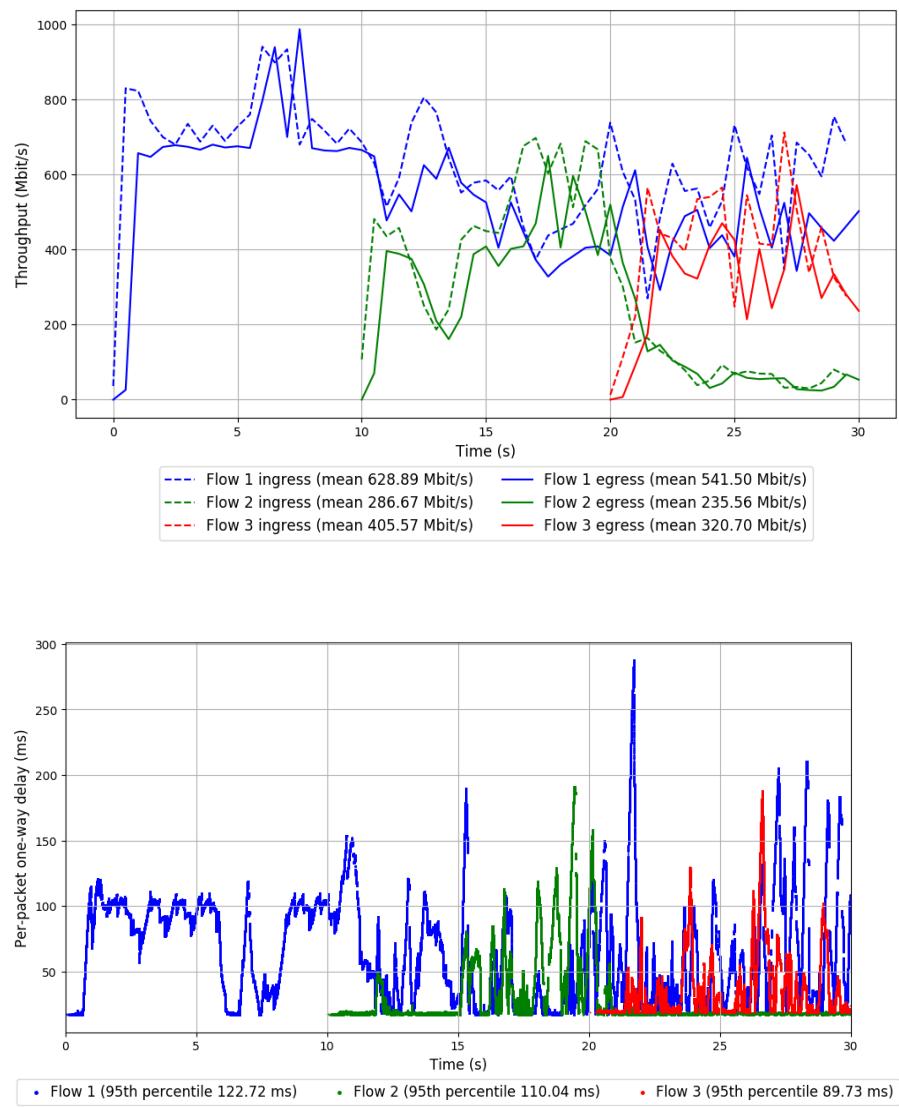
-- Flow 3:

Average throughput: 320.70 Mbit/s

95th percentile per-packet one-way delay: 89.735 ms

Loss rate: 20.89%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-05-24 14:57:04

End at: 2018-05-24 14:57:34

Local clock offset: 0.189 ms

Remote clock offset: 1.247 ms

Below is generated by plot.py at 2018-05-24 19:17:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 788.82 Mbit/s

95th percentile per-packet one-way delay: 110.617 ms

Loss rate: 17.00%

-- Flow 1:

Average throughput: 451.03 Mbit/s

95th percentile per-packet one-way delay: 110.594 ms

Loss rate: 13.34%

-- Flow 2:

Average throughput: 393.46 Mbit/s

95th percentile per-packet one-way delay: 123.900 ms

Loss rate: 21.08%

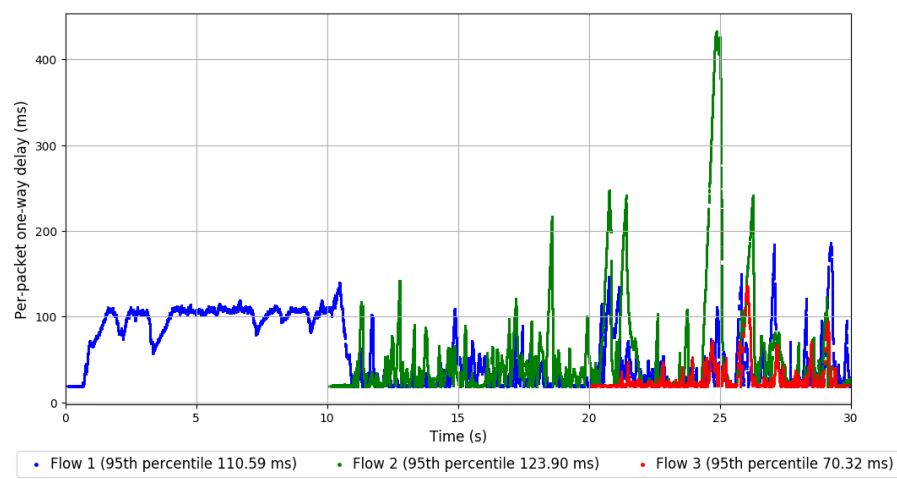
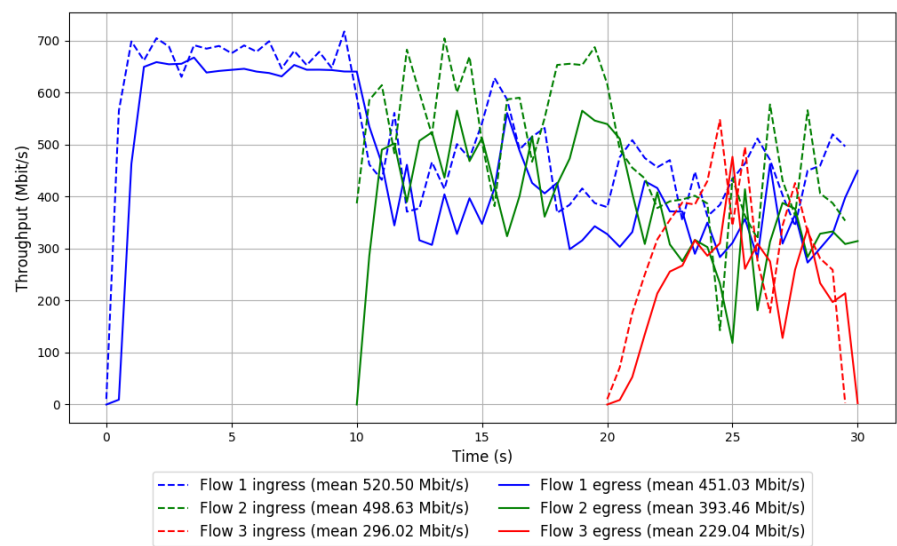
-- Flow 3:

Average throughput: 229.04 Mbit/s

95th percentile per-packet one-way delay: 70.324 ms

Loss rate: 22.62%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-05-24 15:23:14

End at: 2018-05-24 15:23:44

Local clock offset: 0.174 ms

Remote clock offset: 0.648 ms

Below is generated by plot.py at 2018-05-24 19:17:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 742.91 Mbit/s

95th percentile per-packet one-way delay: 115.184 ms

Loss rate: 13.25%

-- Flow 1:

Average throughput: 402.15 Mbit/s

95th percentile per-packet one-way delay: 110.664 ms

Loss rate: 11.18%

-- Flow 2:

Average throughput: 402.99 Mbit/s

95th percentile per-packet one-way delay: 123.977 ms

Loss rate: 14.50%

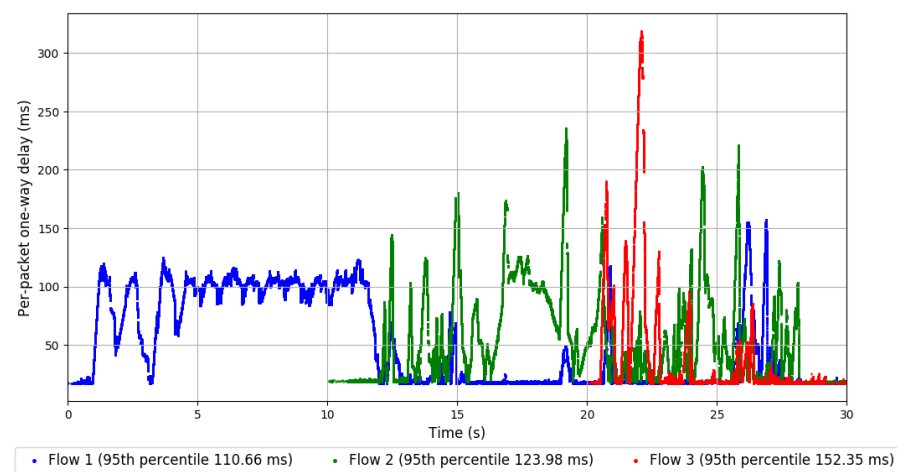
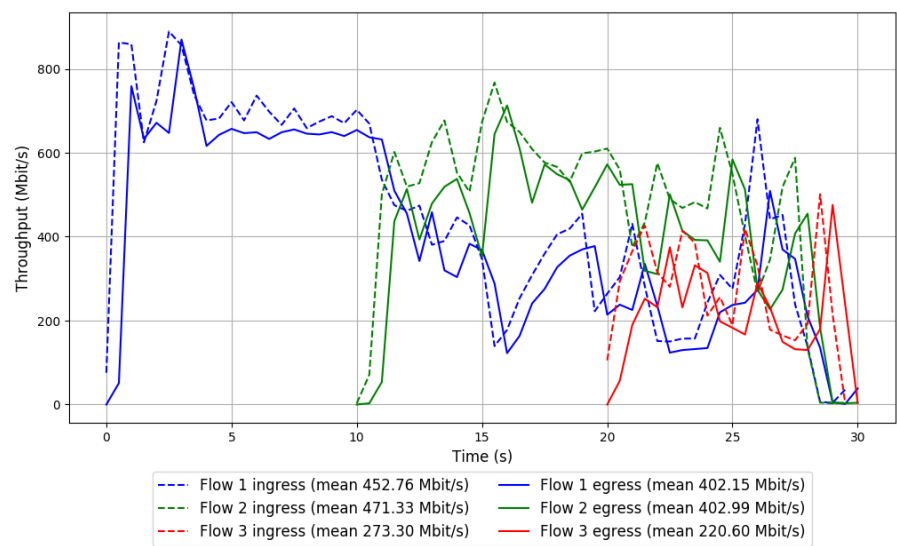
-- Flow 3:

Average throughput: 220.60 Mbit/s

95th percentile per-packet one-way delay: 152.355 ms

Loss rate: 19.28%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-05-24 15:48:49

End at: 2018-05-24 15:49:19

Local clock offset: 0.306 ms

Remote clock offset: 0.188 ms

Below is generated by plot.py at 2018-05-24 19:17:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 785.35 Mbit/s

95th percentile per-packet one-way delay: 110.167 ms

Loss rate: 14.33%

-- Flow 1:

Average throughput: 500.93 Mbit/s

95th percentile per-packet one-way delay: 105.194 ms

Loss rate: 11.24%

-- Flow 2:

Average throughput: 401.35 Mbit/s

95th percentile per-packet one-way delay: 155.438 ms

Loss rate: 19.25%

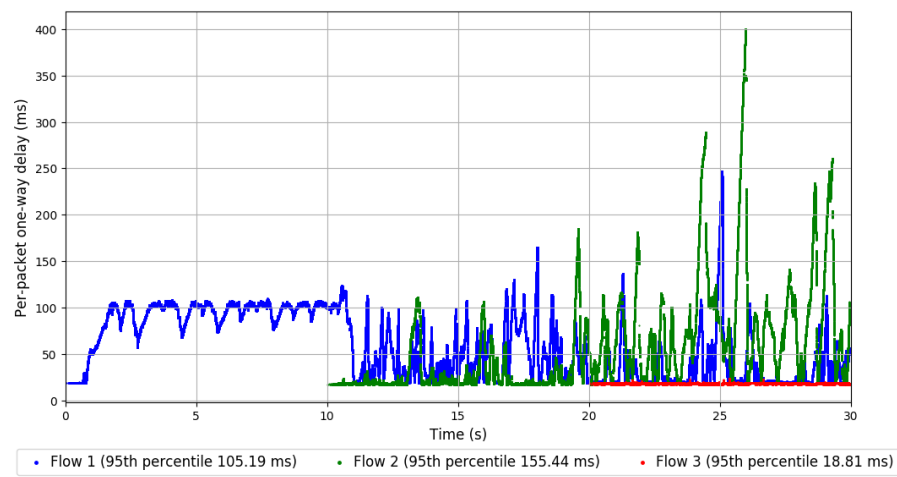
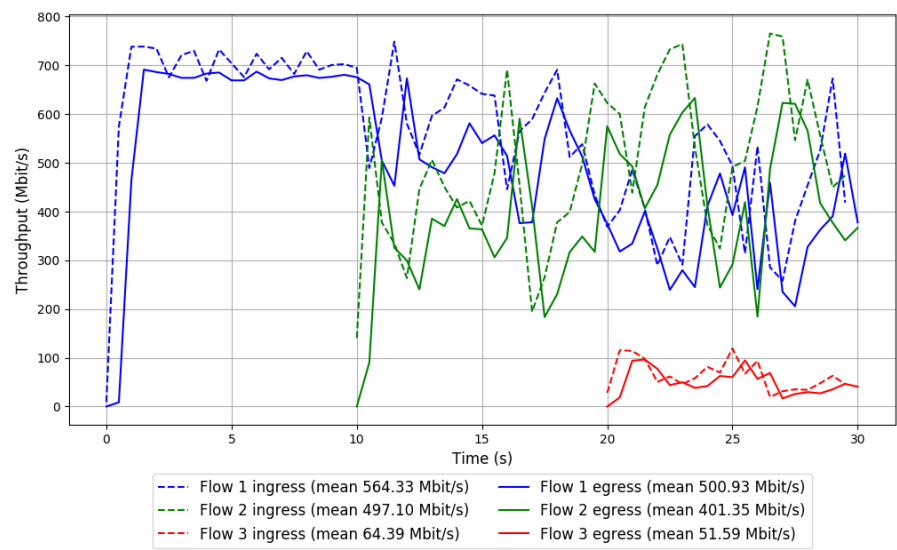
-- Flow 3:

Average throughput: 51.59 Mbit/s

95th percentile per-packet one-way delay: 18.814 ms

Loss rate: 19.89%

Run 5: Report of FillP — Data Link

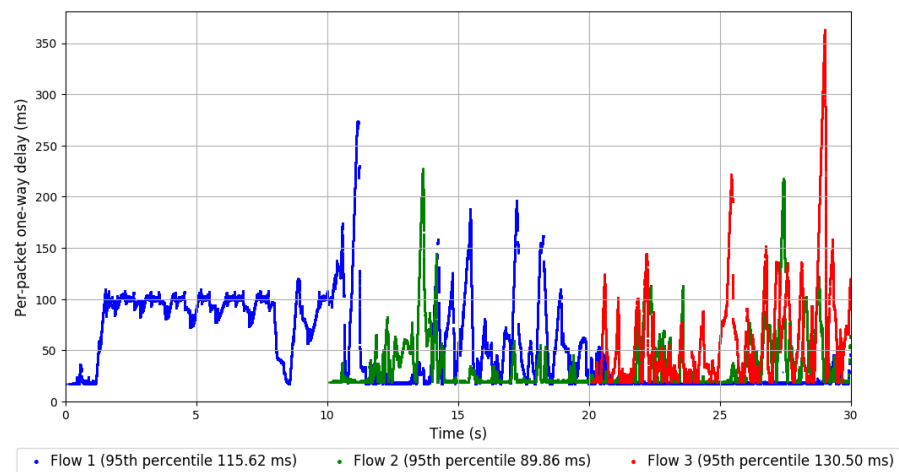
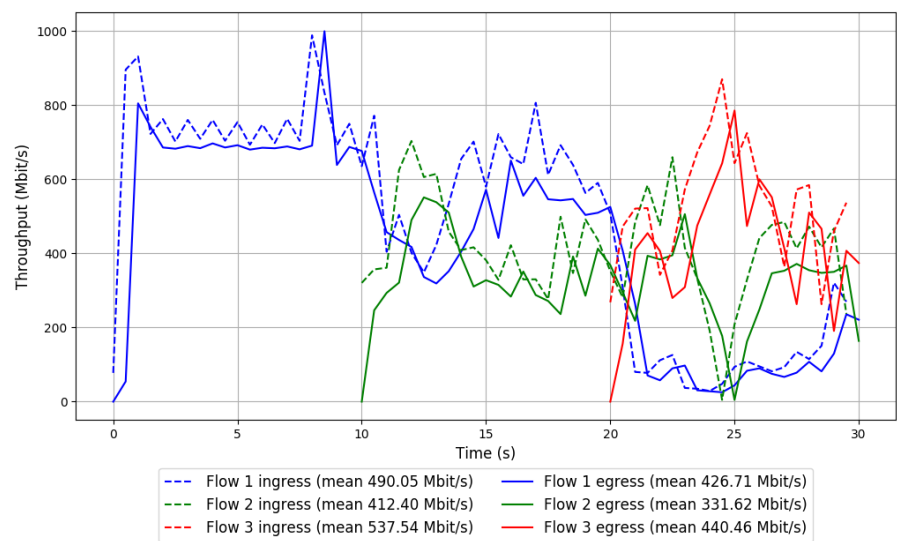


Run 6: Statistics of FillP

Start at: 2018-05-24 16:14:42
End at: 2018-05-24 16:15:12
Local clock offset: 0.114 ms
Remote clock offset: -0.137 ms

Below is generated by plot.py at 2018-05-24 19:18:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 793.13 Mbit/s
95th percentile per-packet one-way delay: 114.200 ms
Loss rate: 15.83%
-- Flow 1:
Average throughput: 426.71 Mbit/s
95th percentile per-packet one-way delay: 115.625 ms
Loss rate: 12.92%
-- Flow 2:
Average throughput: 331.62 Mbit/s
95th percentile per-packet one-way delay: 89.863 ms
Loss rate: 19.59%
-- Flow 3:
Average throughput: 440.46 Mbit/s
95th percentile per-packet one-way delay: 130.495 ms
Loss rate: 18.04%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-05-24 16:40:25

End at: 2018-05-24 16:40:55

Local clock offset: 0.109 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-05-24 19:19:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 759.39 Mbit/s

95th percentile per-packet one-way delay: 107.016 ms

Loss rate: 12.61%

-- Flow 1:

Average throughput: 387.64 Mbit/s

95th percentile per-packet one-way delay: 105.940 ms

Loss rate: 11.38%

-- Flow 2:

Average throughput: 302.89 Mbit/s

95th percentile per-packet one-way delay: 108.592 ms

Loss rate: 16.19%

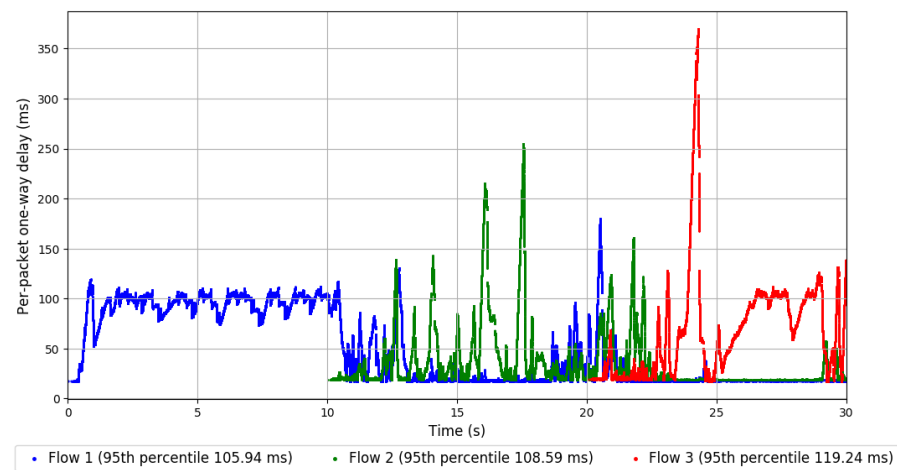
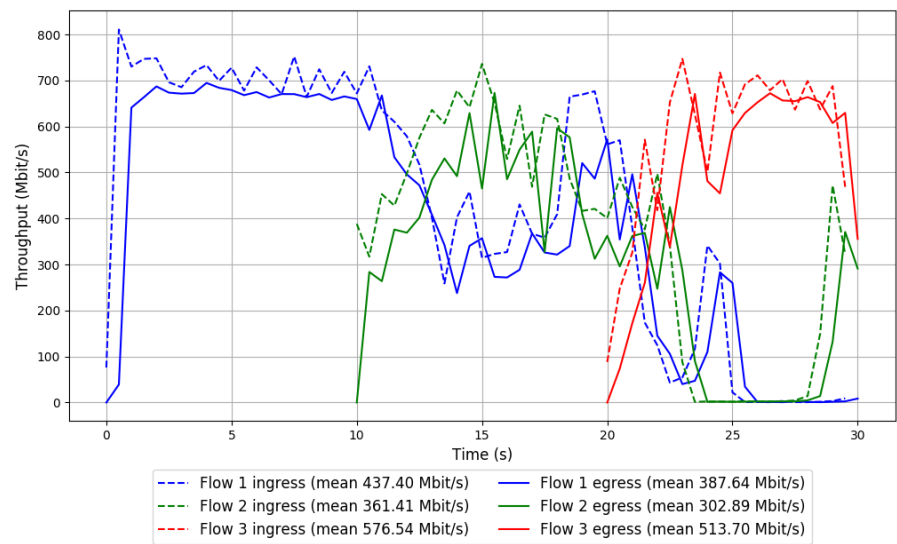
-- Flow 3:

Average throughput: 513.70 Mbit/s

95th percentile per-packet one-way delay: 119.238 ms

Loss rate: 10.91%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-05-24 17:06:08

End at: 2018-05-24 17:06:38

Local clock offset: 0.247 ms

Remote clock offset: 0.068 ms

Below is generated by plot.py at 2018-05-24 19:21:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 703.94 Mbit/s

95th percentile per-packet one-way delay: 104.722 ms

Loss rate: 12.14%

-- Flow 1:

Average throughput: 499.86 Mbit/s

95th percentile per-packet one-way delay: 106.981 ms

Loss rate: 9.11%

-- Flow 2:

Average throughput: 241.29 Mbit/s

95th percentile per-packet one-way delay: 68.278 ms

Loss rate: 18.79%

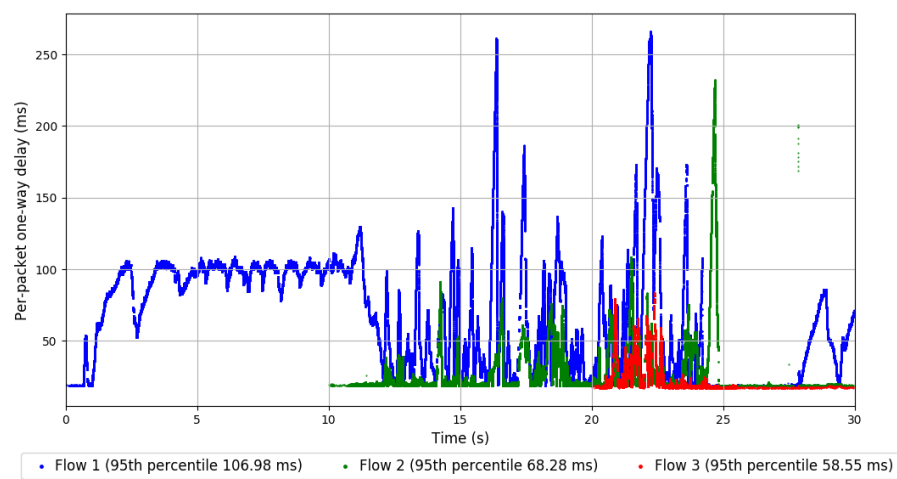
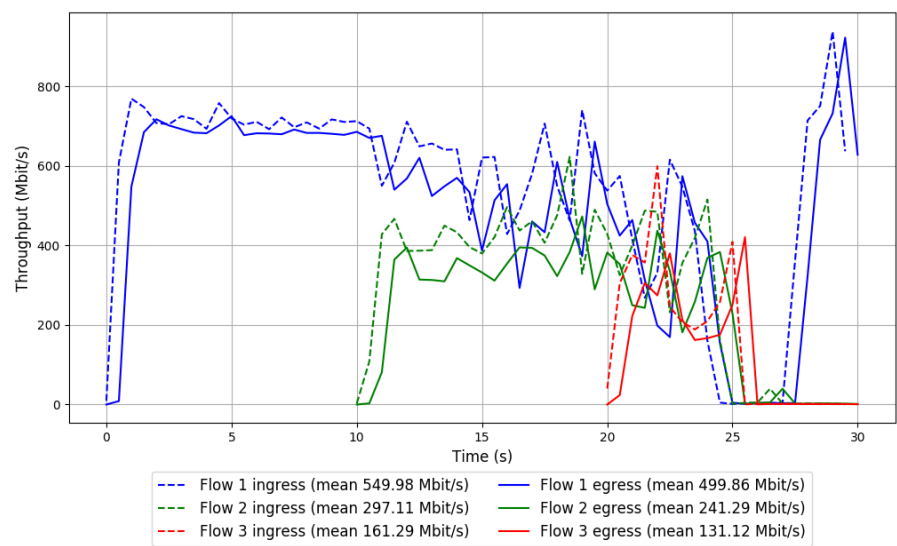
-- Flow 3:

Average throughput: 131.12 Mbit/s

95th percentile per-packet one-way delay: 58.547 ms

Loss rate: 18.71%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-05-24 17:32:00

End at: 2018-05-24 17:32:30

Local clock offset: 0.312 ms

Remote clock offset: 0.145 ms

Below is generated by plot.py at 2018-05-24 19:30:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 803.69 Mbit/s

95th percentile per-packet one-way delay: 113.396 ms

Loss rate: 12.20%

-- Flow 1:

Average throughput: 398.37 Mbit/s

95th percentile per-packet one-way delay: 106.057 ms

Loss rate: 11.08%

-- Flow 2:

Average throughput: 512.32 Mbit/s

95th percentile per-packet one-way delay: 118.429 ms

Loss rate: 12.00%

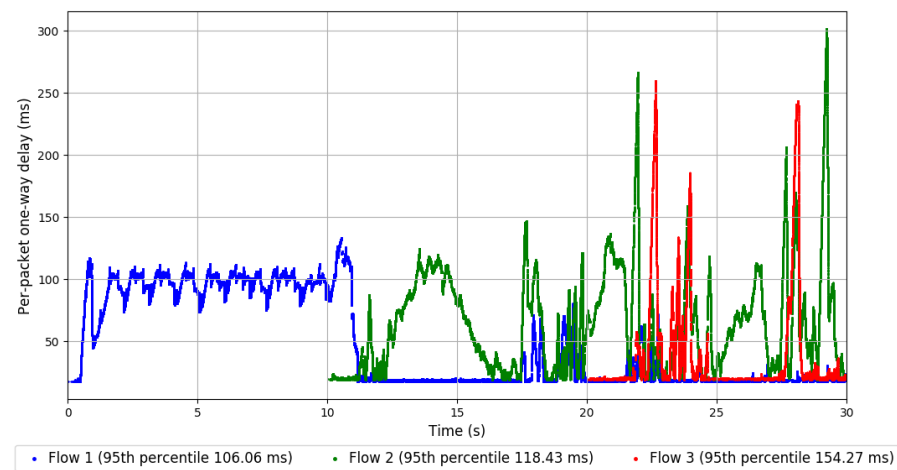
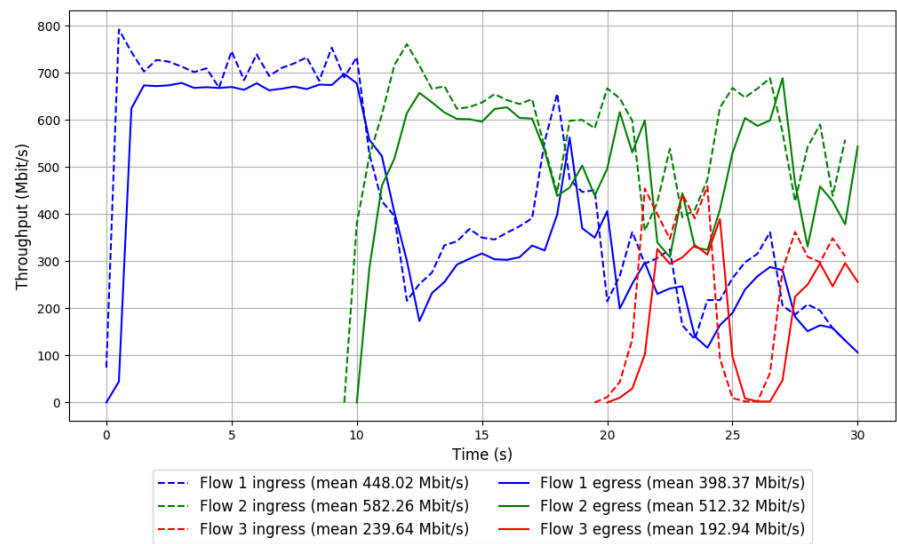
-- Flow 3:

Average throughput: 192.94 Mbit/s

95th percentile per-packet one-way delay: 154.274 ms

Loss rate: 19.48%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-05-24 17:57:27

End at: 2018-05-24 17:57:57

Local clock offset: 0.665 ms

Remote clock offset: 0.206 ms

Below is generated by plot.py at 2018-05-24 19:30:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 803.05 Mbit/s

95th percentile per-packet one-way delay: 123.884 ms

Loss rate: 14.29%

-- Flow 1:

Average throughput: 439.96 Mbit/s

95th percentile per-packet one-way delay: 106.780 ms

Loss rate: 11.98%

-- Flow 2:

Average throughput: 441.54 Mbit/s

95th percentile per-packet one-way delay: 147.457 ms

Loss rate: 16.82%

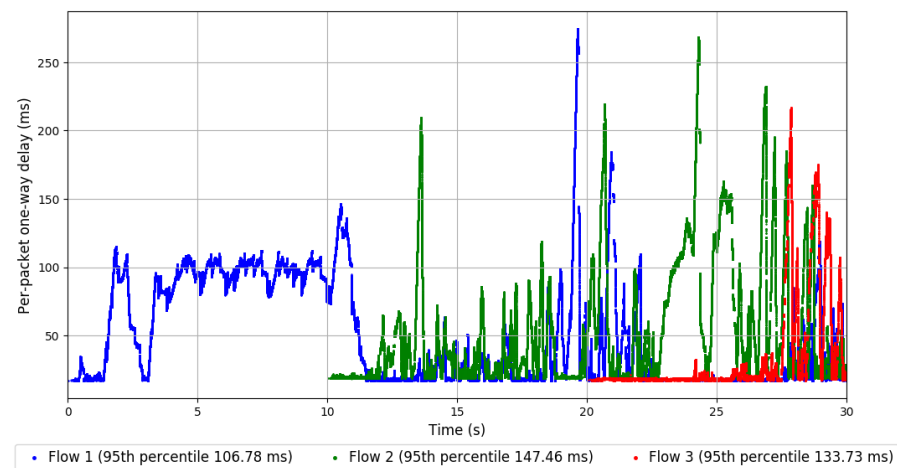
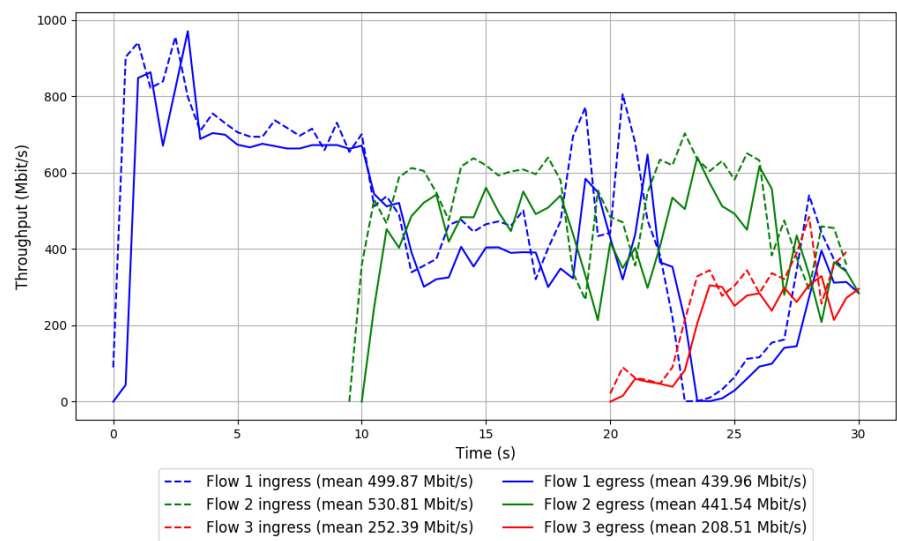
-- Flow 3:

Average throughput: 208.51 Mbit/s

95th percentile per-packet one-way delay: 133.731 ms

Loss rate: 17.39%

Run 10: Report of FillP — Data Link

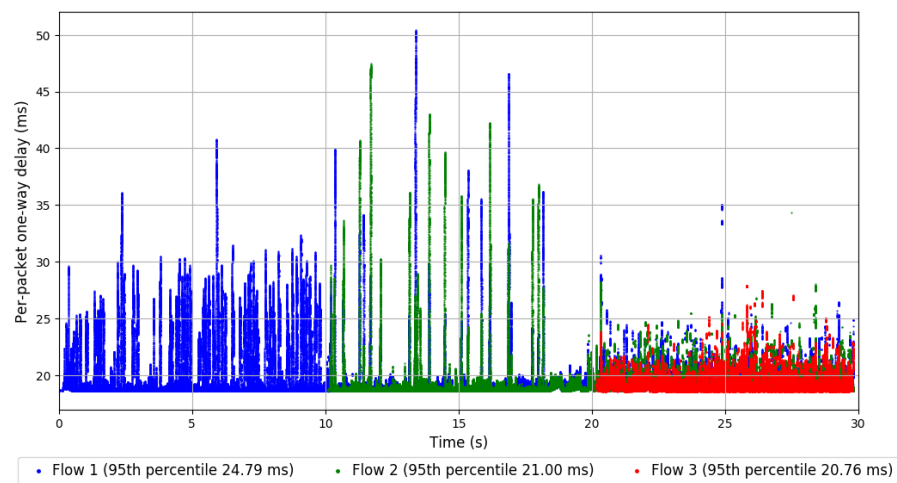
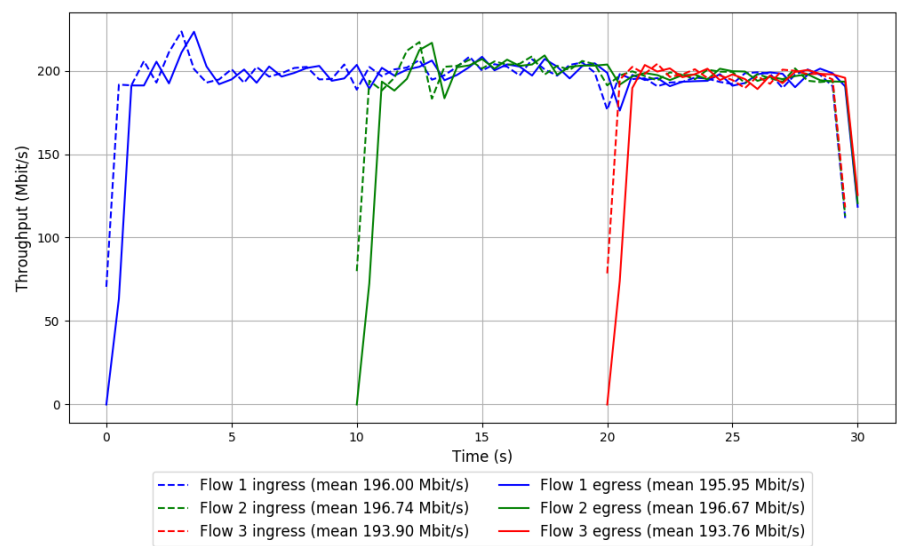


Run 1: Statistics of Indigo

Start at: 2018-05-24 13:51:29
End at: 2018-05-24 13:51:59
Local clock offset: 0.245 ms
Remote clock offset: -0.116 ms

Below is generated by plot.py at 2018-05-24 19:30:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 388.98 Mbit/s
95th percentile per-packet one-way delay: 22.897 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 195.95 Mbit/s
95th percentile per-packet one-way delay: 24.789 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 196.67 Mbit/s
95th percentile per-packet one-way delay: 20.997 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 193.76 Mbit/s
95th percentile per-packet one-way delay: 20.758 ms
Loss rate: 0.05%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-05-24 14:17:33

End at: 2018-05-24 14:18:03

Local clock offset: 0.486 ms

Remote clock offset: 0.378 ms

Below is generated by plot.py at 2018-05-24 19:30:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 298.00 Mbit/s

95th percentile per-packet one-way delay: 20.435 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 106.07 Mbit/s

95th percentile per-packet one-way delay: 18.796 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 194.43 Mbit/s

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

Loss rate: 0.00%

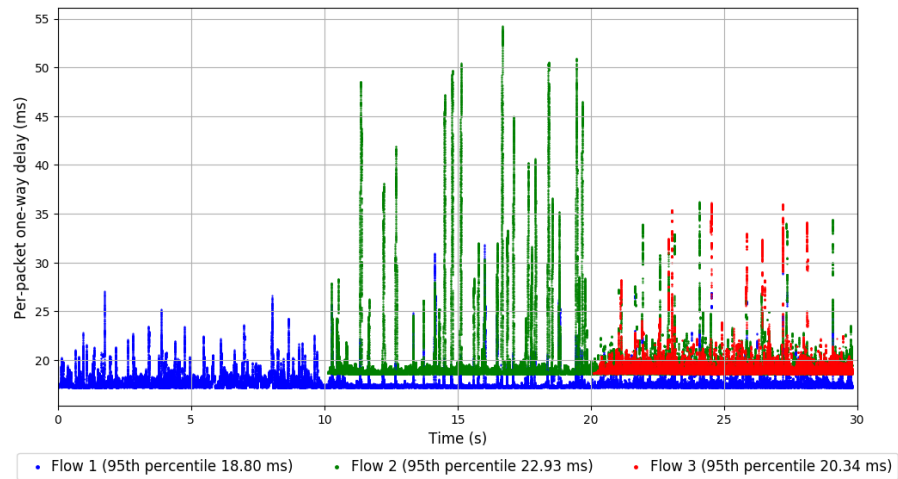
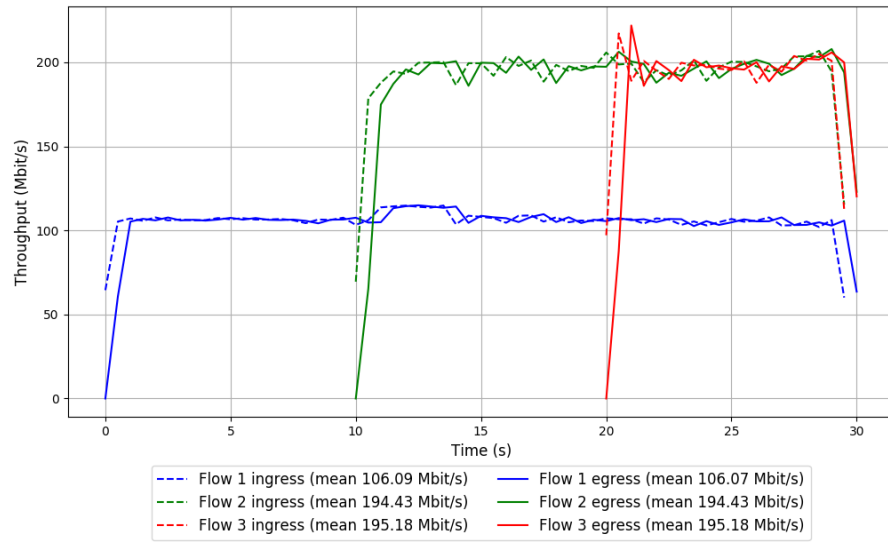
-- Flow 3:

Average throughput: 195.18 Mbit/s

95th percentile per-packet one-way delay: 20.340 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-05-24 14:43:40

End at: 2018-05-24 14:44:10

Local clock offset: 0.25 ms

Remote clock offset: 0.923 ms

Below is generated by plot.py at 2018-05-24 19:30:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 385.63 Mbit/s

95th percentile per-packet one-way delay: 22.575 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 194.60 Mbit/s

95th percentile per-packet one-way delay: 24.980 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 197.13 Mbit/s

95th percentile per-packet one-way delay: 20.984 ms

Loss rate: 0.02%

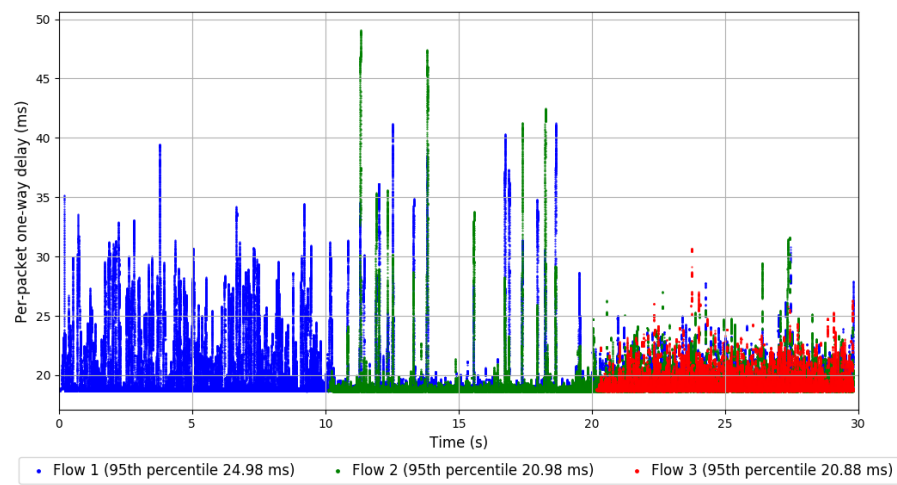
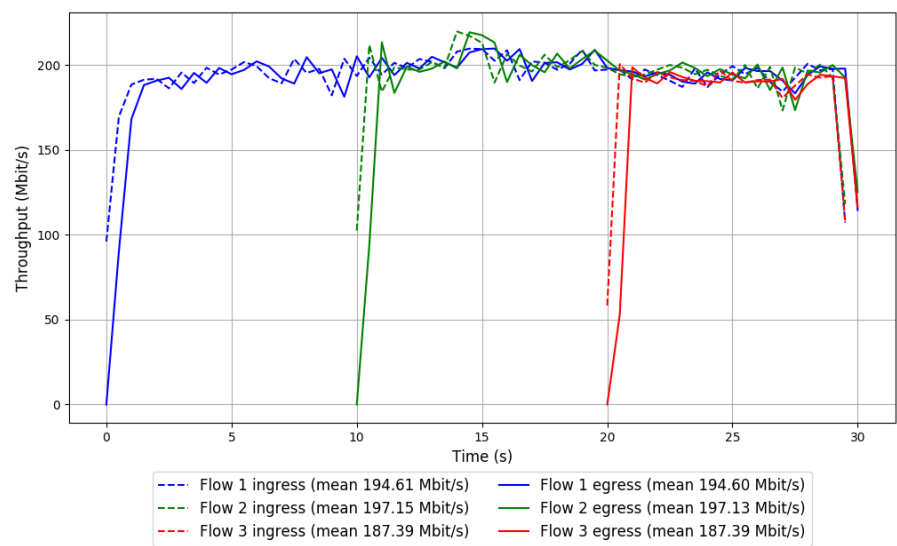
-- Flow 3:

Average throughput: 187.39 Mbit/s

95th percentile per-packet one-way delay: 20.878 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-05-24 15:09:31

End at: 2018-05-24 15:10:01

Local clock offset: 0.229 ms

Remote clock offset: 1.544 ms

Below is generated by plot.py at 2018-05-24 19:30:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 386.51 Mbit/s

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

Loss rate: 0.09%

-- Flow 1:

Average throughput: 197.28 Mbit/s

95th percentile per-packet one-way delay: 20.503 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 195.11 Mbit/s

95th percentile per-packet one-way delay: 21.112 ms

Loss rate: 0.09%

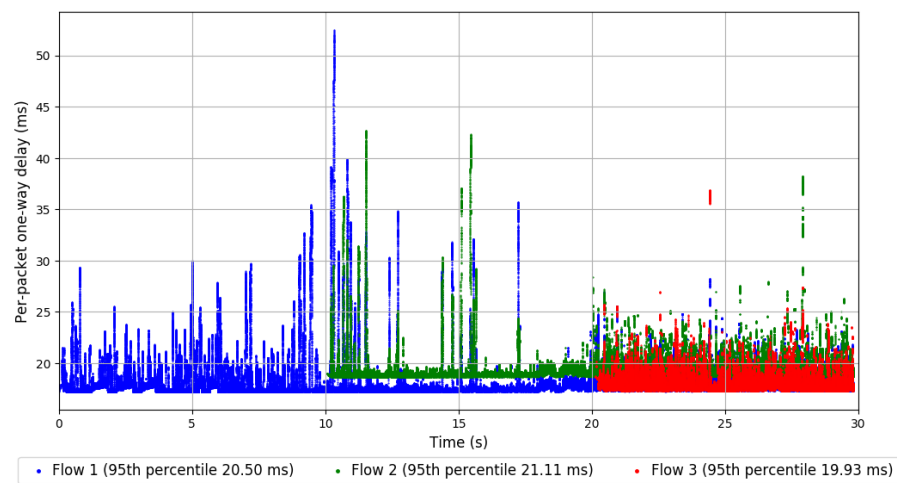
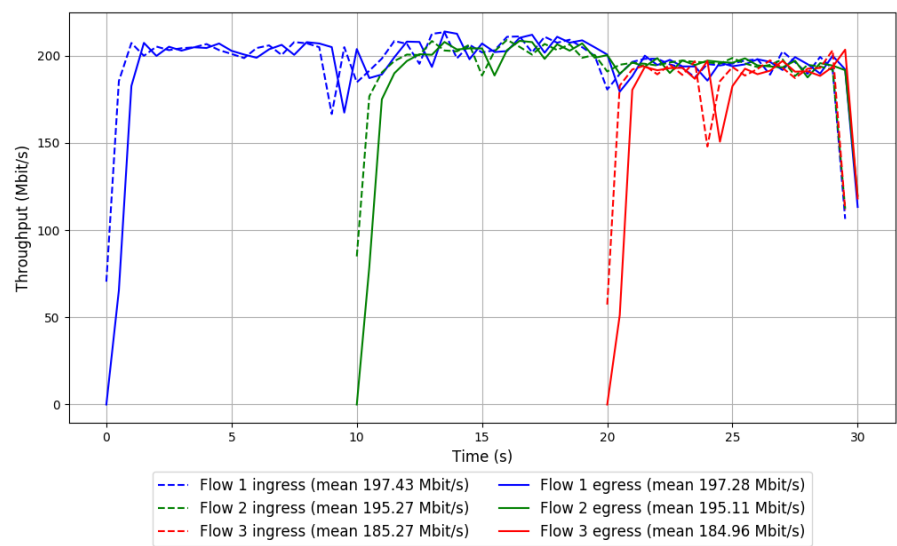
-- Flow 3:

Average throughput: 184.96 Mbit/s

95th percentile per-packet one-way delay: 19.928 ms

Loss rate: 0.18%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-05-24 15:35:21

End at: 2018-05-24 15:35:51

Local clock offset: 0.304 ms

Remote clock offset: 0.528 ms

Below is generated by plot.py at 2018-05-24 19:30:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 397.39 Mbit/s

95th percentile per-packet one-way delay: 20.402 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 201.51 Mbit/s

95th percentile per-packet one-way delay: 21.429 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 201.24 Mbit/s

95th percentile per-packet one-way delay: 19.586 ms

Loss rate: 0.00%

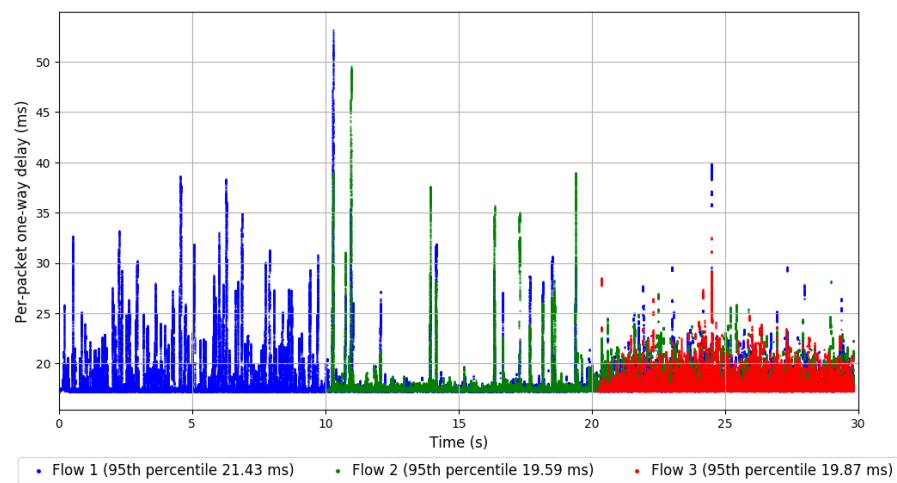
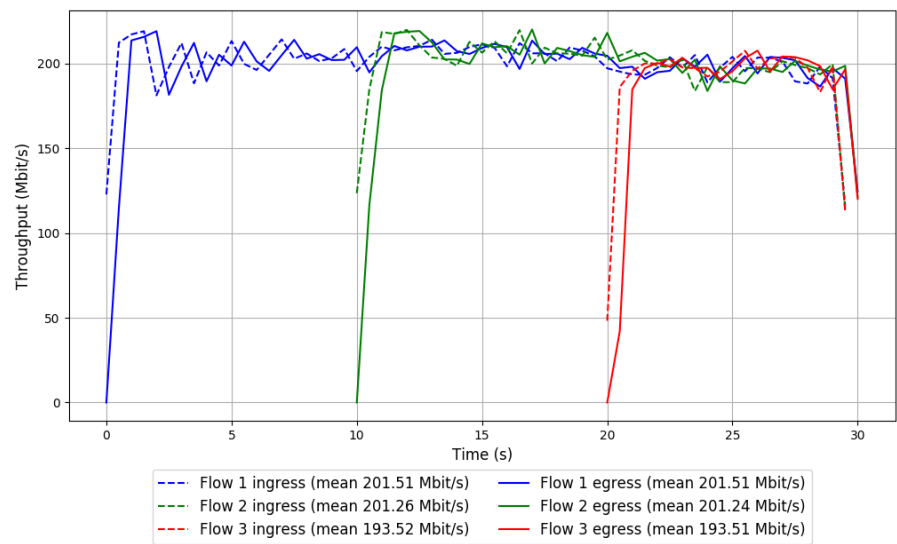
-- Flow 3:

Average throughput: 193.51 Mbit/s

95th percentile per-packet one-way delay: 19.873 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link

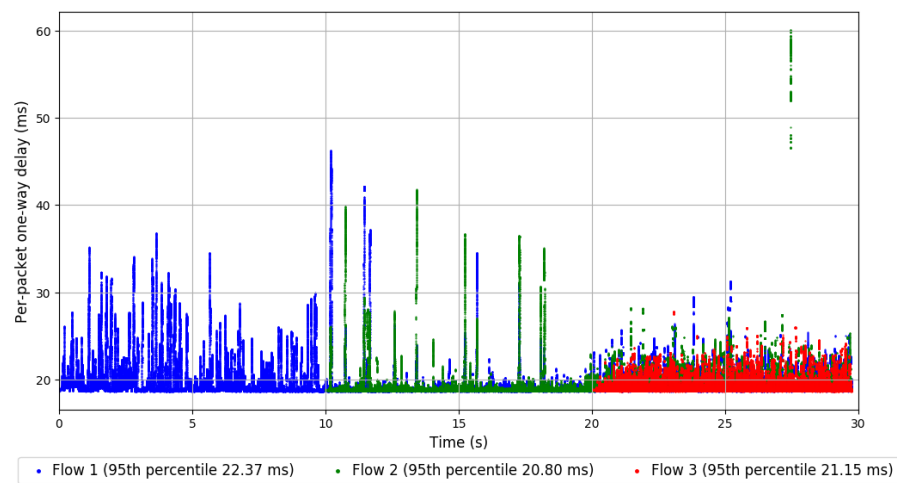
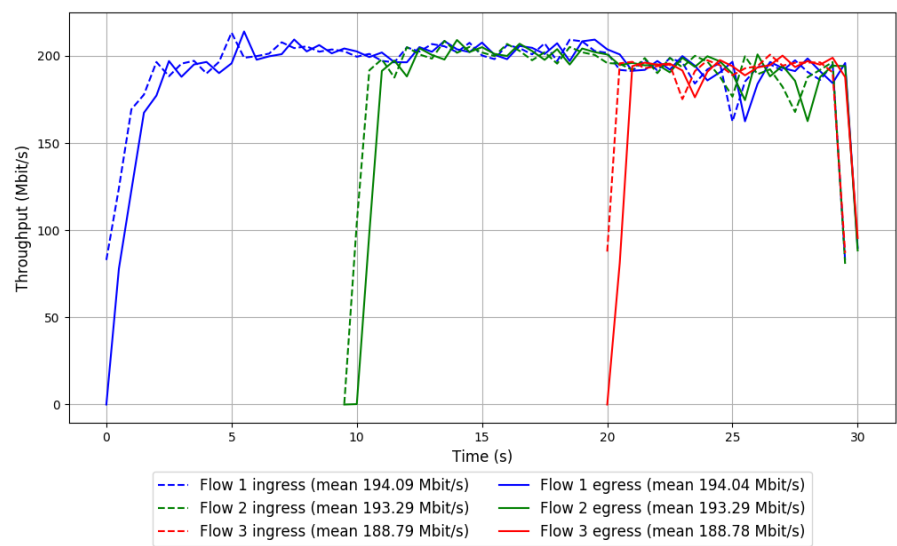


Run 6: Statistics of Indigo

Start at: 2018-05-24 16:01:06
End at: 2018-05-24 16:01:36
Local clock offset: 0.293 ms
Remote clock offset: -0.117 ms

Below is generated by plot.py at 2018-05-24 19:30:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 383.92 Mbit/s
95th percentile per-packet one-way delay: 21.536 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 194.04 Mbit/s
95th percentile per-packet one-way delay: 22.368 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 193.29 Mbit/s
95th percentile per-packet one-way delay: 20.804 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 188.78 Mbit/s
95th percentile per-packet one-way delay: 21.154 ms
Loss rate: 0.01%

Run 6: Report of Indigo — Data Link

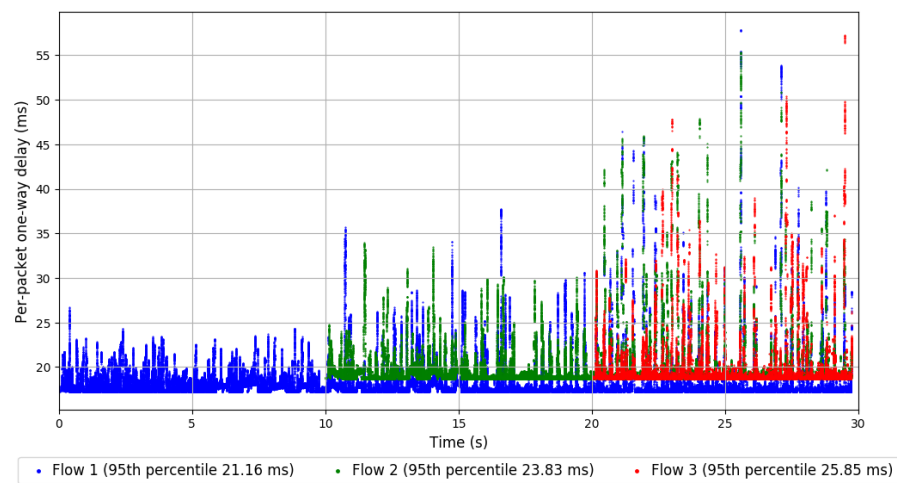
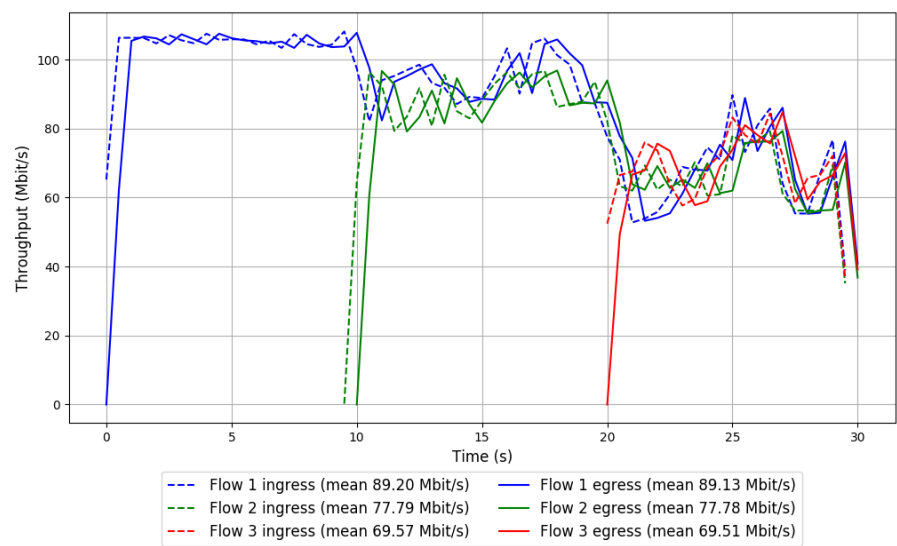


Run 7: Statistics of Indigo

Start at: 2018-05-24 16:27:08
End at: 2018-05-24 16:27:38
Local clock offset: 0.142 ms
Remote clock offset: -0.047 ms

Below is generated by plot.py at 2018-05-24 19:30:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 163.50 Mbit/s
95th percentile per-packet one-way delay: 22.518 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 89.13 Mbit/s
95th percentile per-packet one-way delay: 21.160 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 77.78 Mbit/s
95th percentile per-packet one-way delay: 23.826 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 69.51 Mbit/s
95th percentile per-packet one-way delay: 25.853 ms
Loss rate: 0.01%

Run 7: Report of Indigo — Data Link

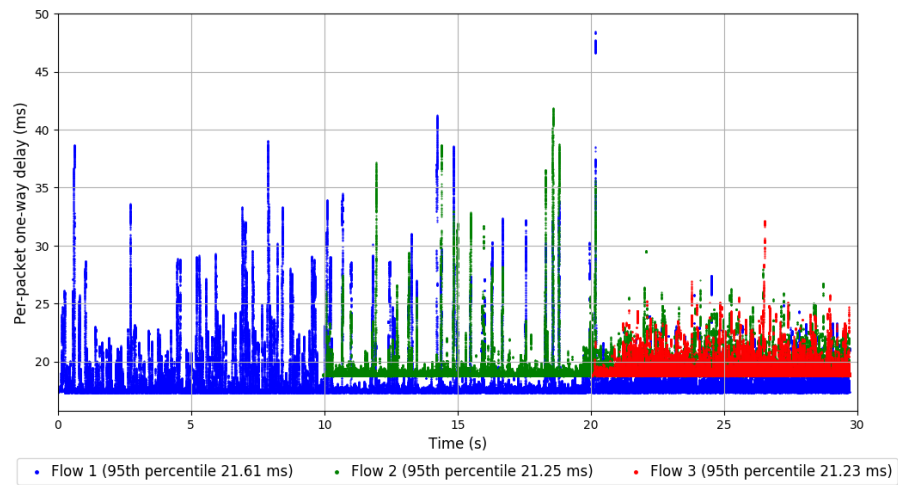
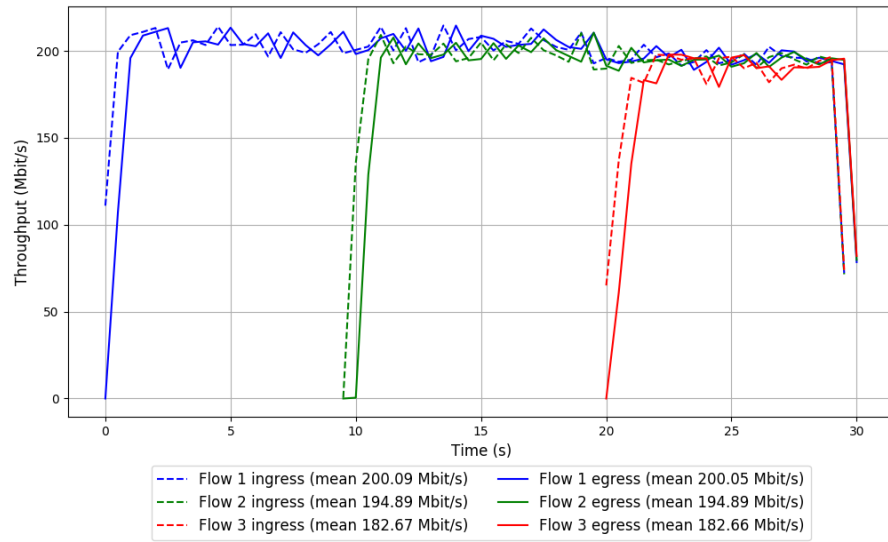


Run 8: Statistics of Indigo

Start at: 2018-05-24 16:52:42
End at: 2018-05-24 16:53:12
Local clock offset: 0.098 ms
Remote clock offset: -0.052 ms

```
# Below is generated by plot.py at 2018-05-24 19:30:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 389.15 Mbit/s
95th percentile per-packet one-way delay: 21.364 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 200.05 Mbit/s
95th percentile per-packet one-way delay: 21.606 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 194.89 Mbit/s
95th percentile per-packet one-way delay: 21.249 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 182.66 Mbit/s
95th percentile per-packet one-way delay: 21.225 ms
Loss rate: 0.00%
```

Run 8: Report of Indigo — Data Link

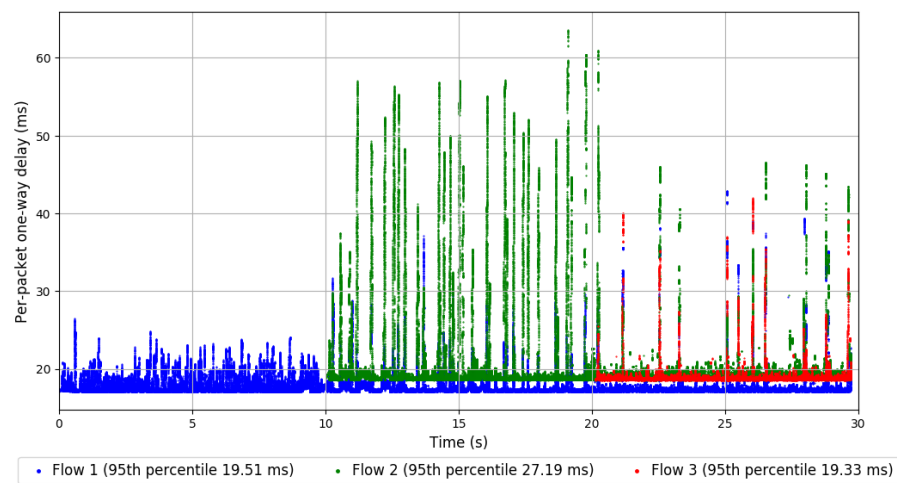
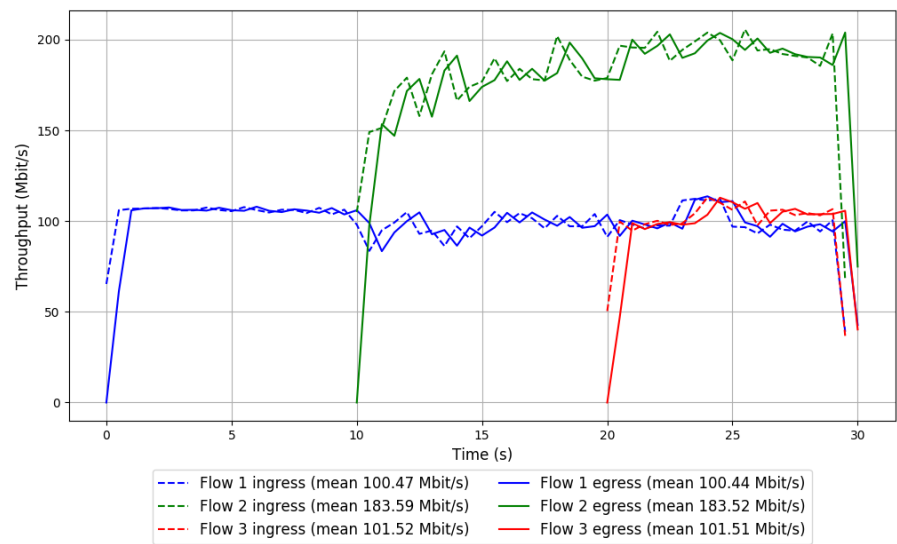


Run 9: Statistics of Indigo

Start at: 2018-05-24 17:18:26
End at: 2018-05-24 17:18:56
Local clock offset: 0.301 ms
Remote clock offset: -0.001 ms

Below is generated by plot.py at 2018-05-24 19:30:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 254.91 Mbit/s
95th percentile per-packet one-way delay: 20.725 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 100.44 Mbit/s
95th percentile per-packet one-way delay: 19.513 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 183.52 Mbit/s
95th percentile per-packet one-way delay: 27.192 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 101.51 Mbit/s
95th percentile per-packet one-way delay: 19.333 ms
Loss rate: 0.02%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-05-24 17:44:13

End at: 2018-05-24 17:44:43

Local clock offset: 0.59 ms

Remote clock offset: 0.258 ms

Below is generated by plot.py at 2018-05-24 19:30:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 284.02 Mbit/s

95th percentile per-packet one-way delay: 21.273 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 99.34 Mbit/s

95th percentile per-packet one-way delay: 21.179 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 182.87 Mbit/s

95th percentile per-packet one-way delay: 25.225 ms

Loss rate: 0.02%

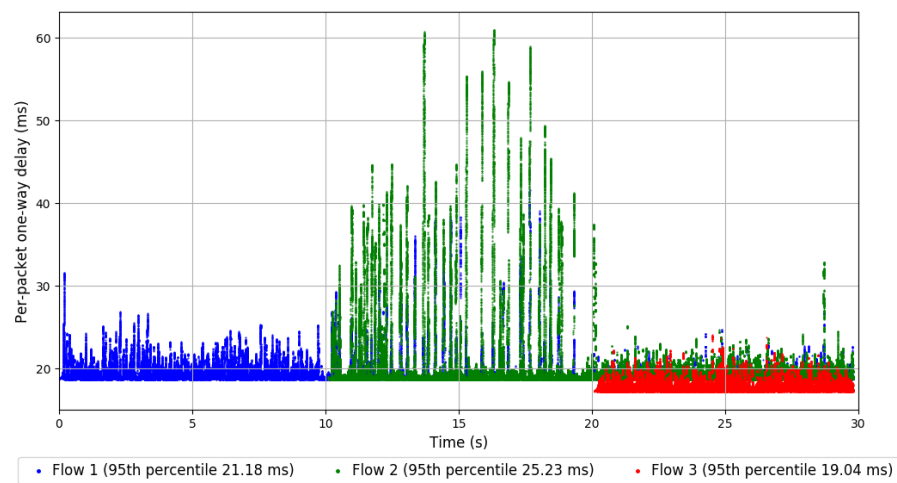
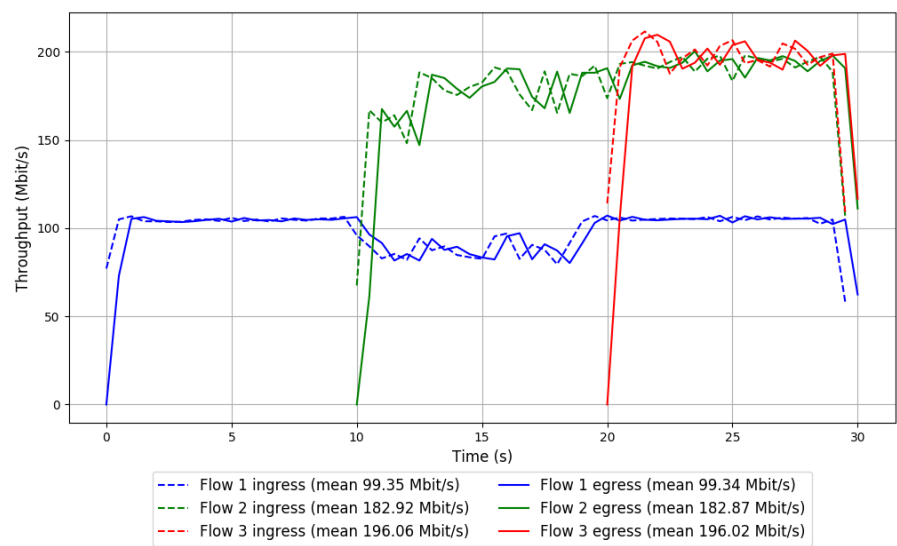
-- Flow 3:

Average throughput: 196.02 Mbit/s

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

Loss rate: 0.02%

Run 10: Report of Indigo — Data Link

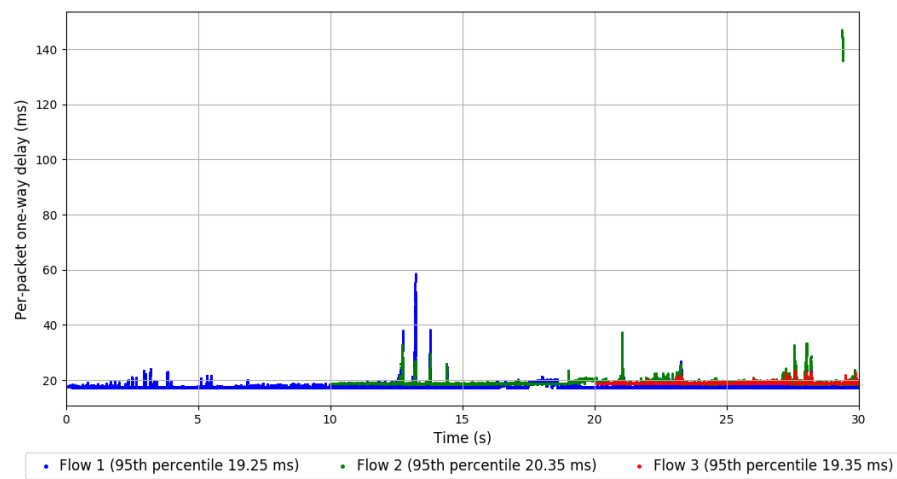
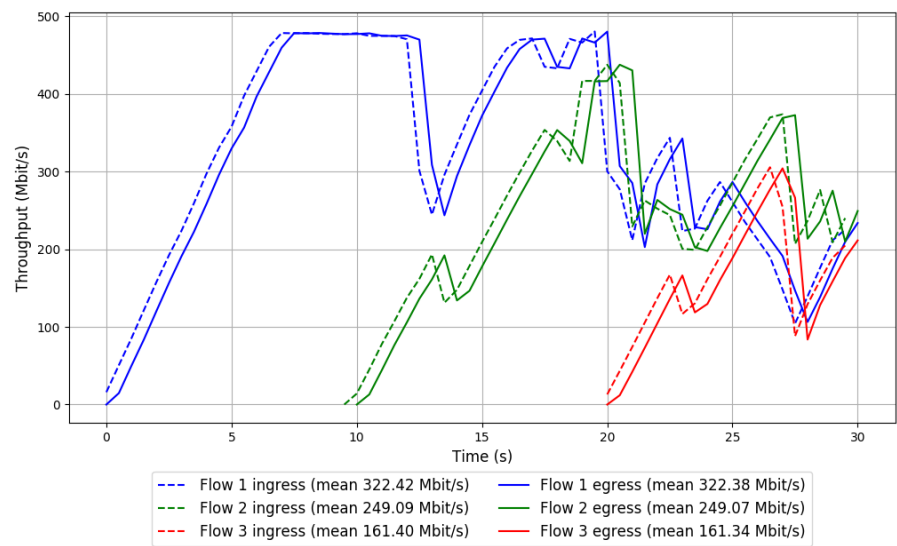


```
Run 1: Statistics of LEDBAT

Start at: 2018-05-24 14:13:11
End at: 2018-05-24 14:13:41
Local clock offset: 0.456 ms
Remote clock offset: 0.296 ms

# Below is generated by plot.py at 2018-05-24 19:31:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 542.06 Mbit/s
95th percentile per-packet one-way delay: 19.673 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 322.38 Mbit/s
95th percentile per-packet one-way delay: 19.254 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 249.07 Mbit/s
95th percentile per-packet one-way delay: 20.349 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 161.34 Mbit/s
95th percentile per-packet one-way delay: 19.348 ms
Loss rate: 0.05%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-05-24 14:39:18

End at: 2018-05-24 14:39:48

Local clock offset: 0.296 ms

Remote clock offset: 0.842 ms

Below is generated by plot.py at 2018-05-24 19:32:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 507.43 Mbit/s

95th percentile per-packet one-way delay: 19.212 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 316.01 Mbit/s

95th percentile per-packet one-way delay: 18.435 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 202.37 Mbit/s

95th percentile per-packet one-way delay: 19.615 ms

Loss rate: 0.02%

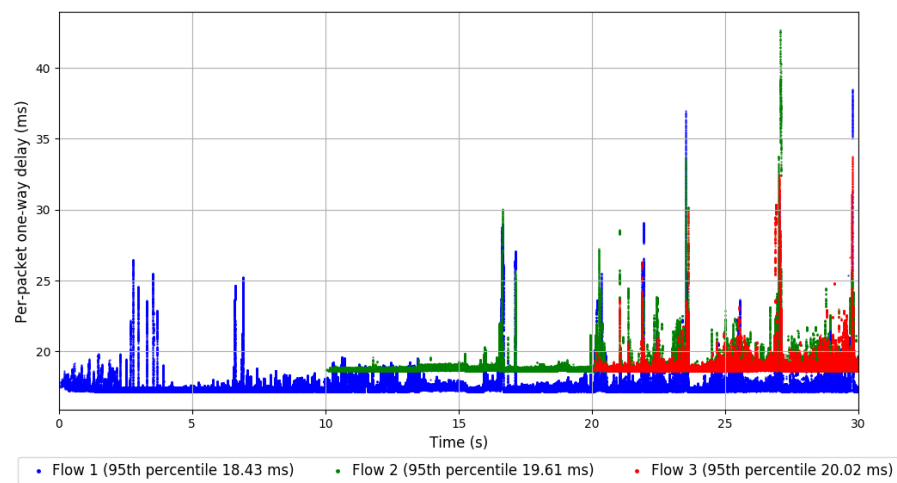
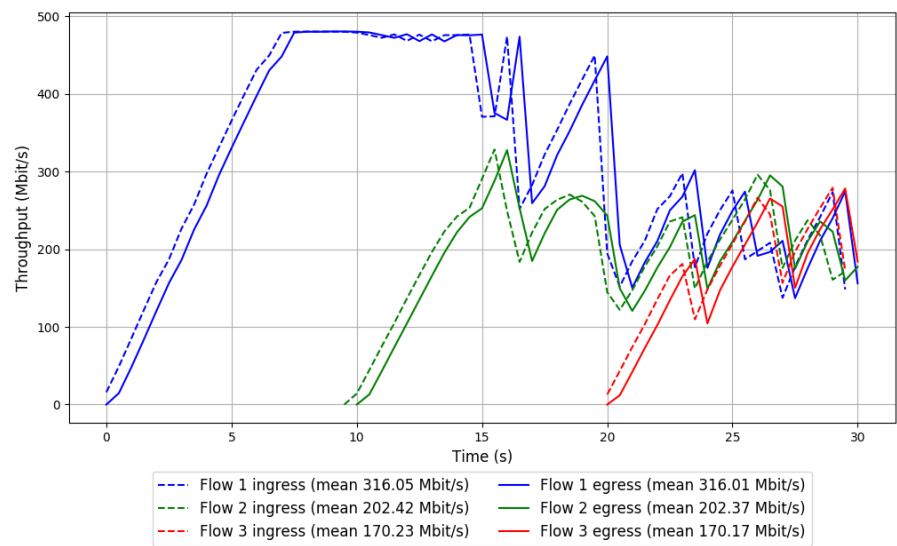
-- Flow 3:

Average throughput: 170.17 Mbit/s

95th percentile per-packet one-way delay: 20.016 ms

Loss rate: 0.04%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-05-24 15:05:08

End at: 2018-05-24 15:05:38

Local clock offset: 0.129 ms

Remote clock offset: 1.409 ms

Below is generated by plot.py at 2018-05-24 19:33:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 506.53 Mbit/s

95th percentile per-packet one-way delay: 19.404 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 301.45 Mbit/s

95th percentile per-packet one-way delay: 19.502 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 217.04 Mbit/s

95th percentile per-packet one-way delay: 19.353 ms

Loss rate: 0.01%

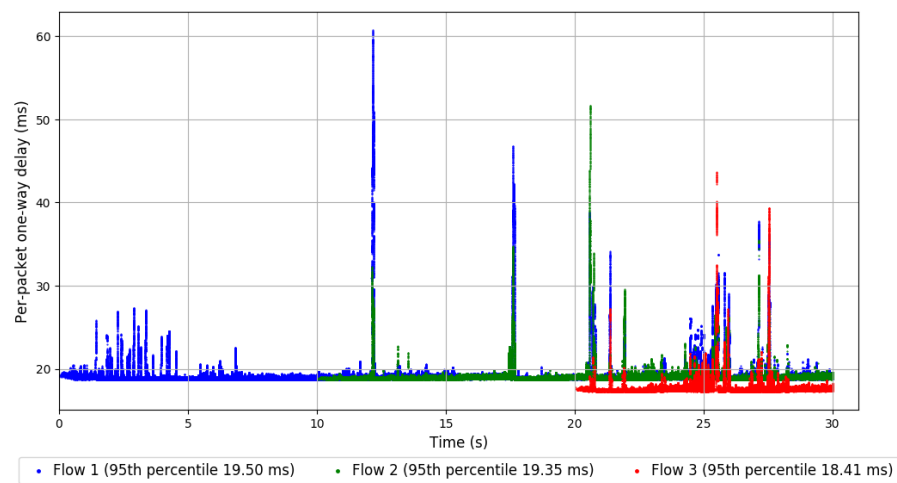
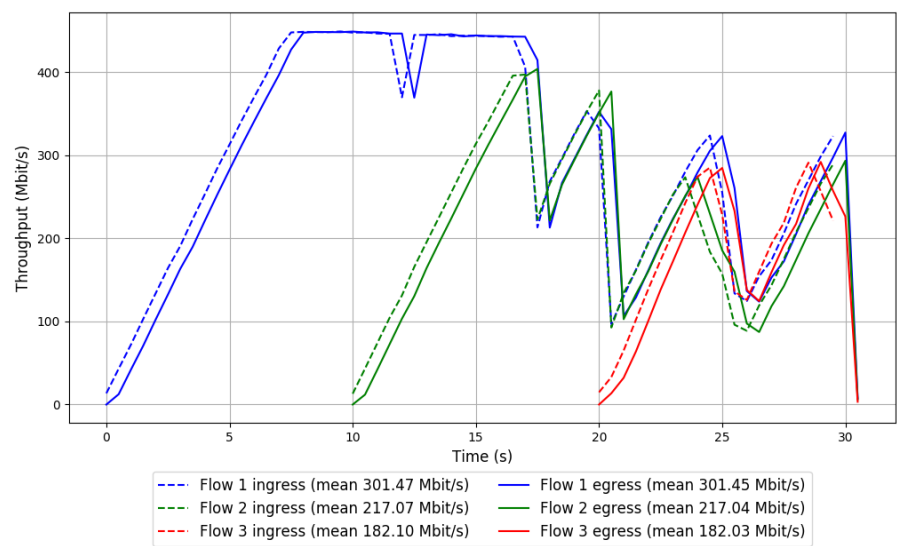
-- Flow 3:

Average throughput: 182.03 Mbit/s

95th percentile per-packet one-way delay: 18.408 ms

Loss rate: 0.04%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-05-24 15:31:08

End at: 2018-05-24 15:31:38

Local clock offset: 0.261 ms

Remote clock offset: 0.599 ms

Below is generated by plot.py at 2018-05-24 19:33:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 361.95 Mbit/s

95th percentile per-packet one-way delay: 19.549 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 236.54 Mbit/s

95th percentile per-packet one-way delay: 19.545 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 115.84 Mbit/s

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

Loss rate: 0.14%

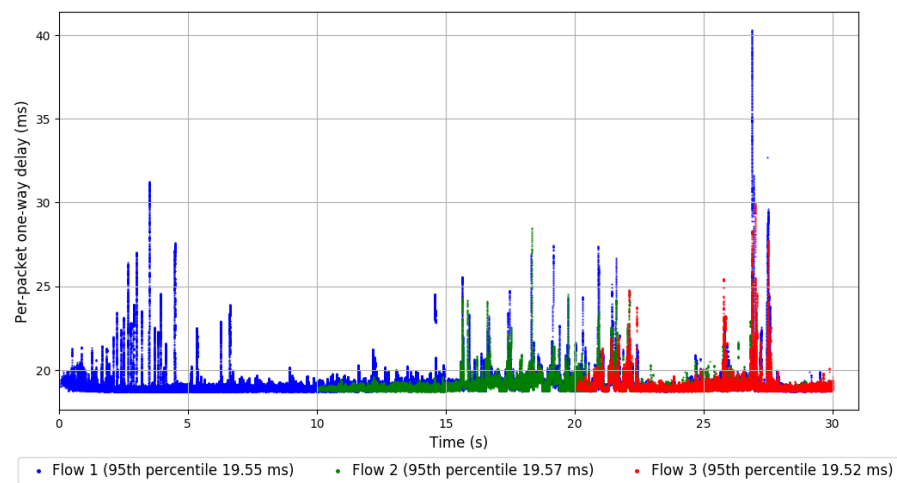
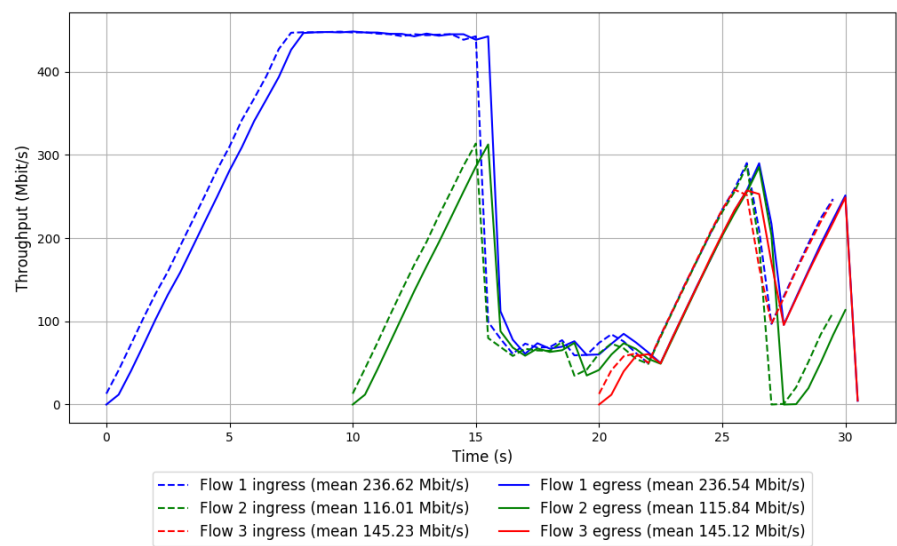
-- Flow 3:

Average throughput: 145.12 Mbit/s

95th percentile per-packet one-way delay: 19.519 ms

Loss rate: 0.08%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-05-24 15:56:48

End at: 2018-05-24 15:57:18

Local clock offset: 0.31 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2018-05-24 19:34:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 472.65 Mbit/s

95th percentile per-packet one-way delay: 19.757 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 287.19 Mbit/s

95th percentile per-packet one-way delay: 19.995 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 205.40 Mbit/s

95th percentile per-packet one-way delay: 19.511 ms

Loss rate: 0.02%

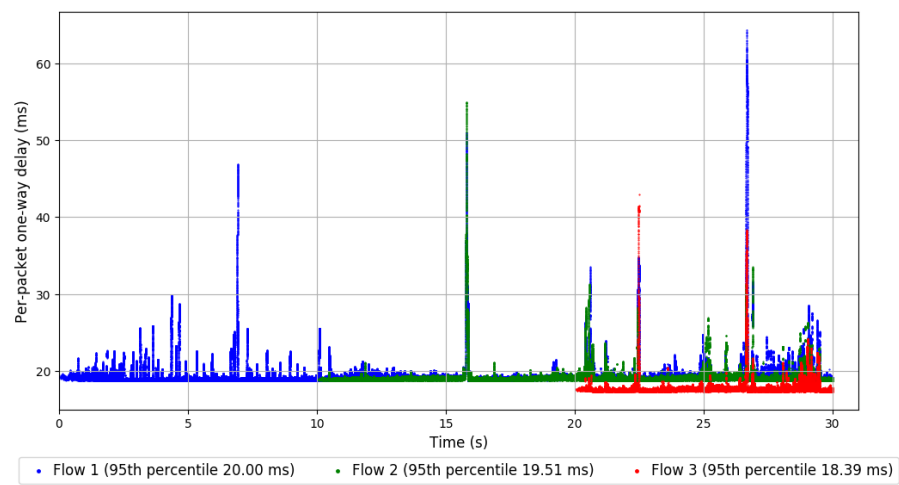
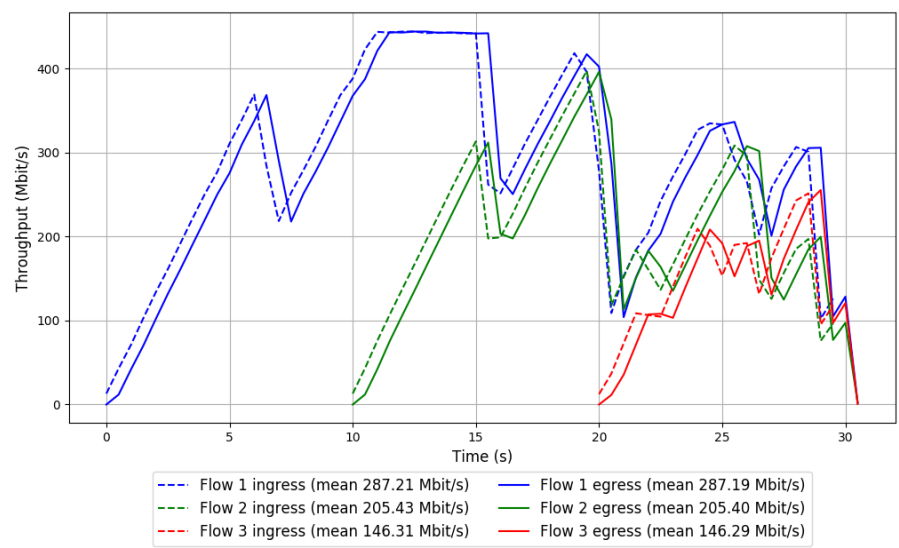
-- Flow 3:

Average throughput: 146.29 Mbit/s

95th percentile per-packet one-way delay: 18.389 ms

Loss rate: 0.02%

Run 5: Report of LEDBAT — Data Link

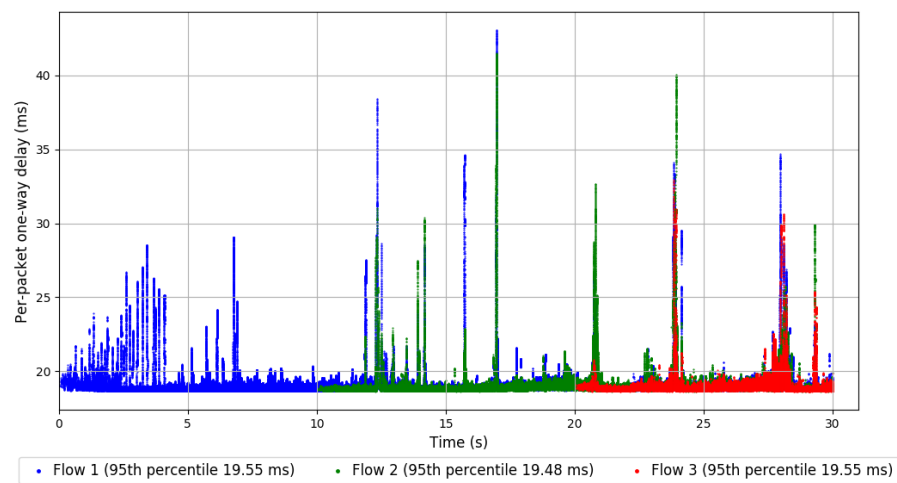
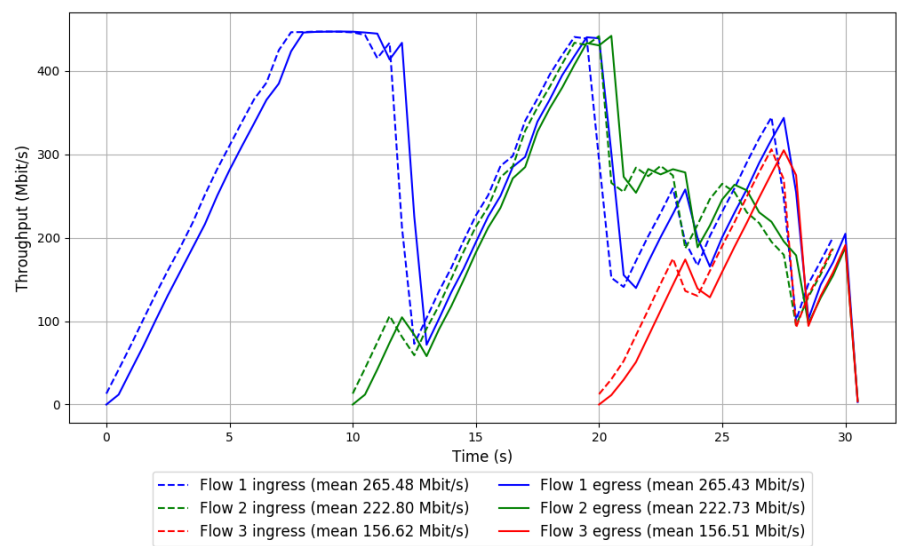


Run 6: Statistics of LEDBAT

Start at: 2018-05-24 16:22:53
End at: 2018-05-24 16:23:23
Local clock offset: 0.149 ms
Remote clock offset: -0.074 ms

Below is generated by plot.py at 2018-05-24 19:34:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 465.80 Mbit/s
95th percentile per-packet one-way delay: 19.529 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 265.43 Mbit/s
95th percentile per-packet one-way delay: 19.546 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 222.73 Mbit/s
95th percentile per-packet one-way delay: 19.482 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 156.51 Mbit/s
95th percentile per-packet one-way delay: 19.554 ms
Loss rate: 0.07%

Run 6: Report of LEDBAT — Data Link

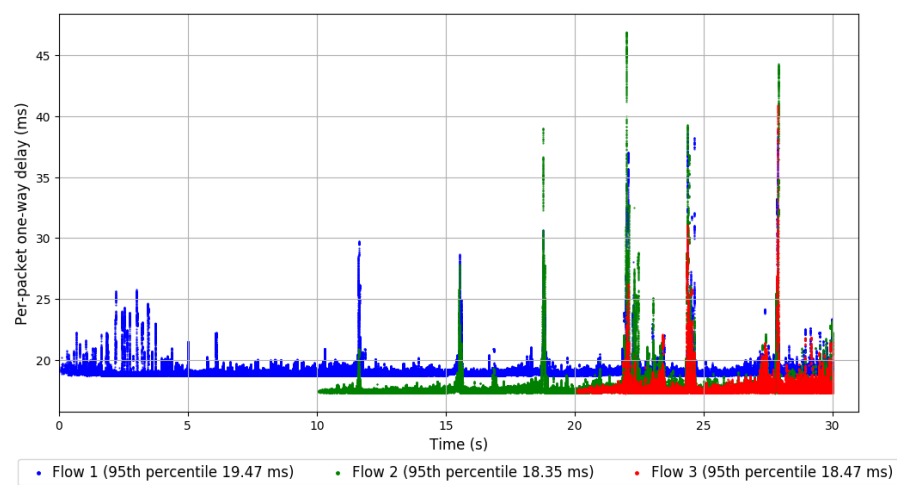
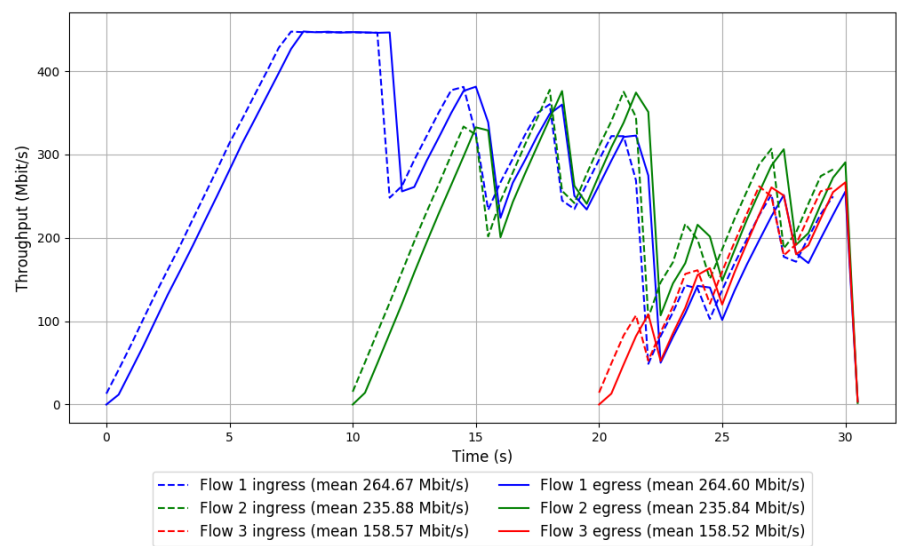


Run 7: Statistics of LEDBAT

Start at: 2018-05-24 16:48:22
End at: 2018-05-24 16:48:52
Local clock offset: 0.178 ms
Remote clock offset: -0.017 ms

Below is generated by plot.py at 2018-05-24 19:37:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 474.28 Mbit/s
95th percentile per-packet one-way delay: 19.332 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 264.60 Mbit/s
95th percentile per-packet one-way delay: 19.473 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 235.84 Mbit/s
95th percentile per-packet one-way delay: 18.352 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 158.52 Mbit/s
95th percentile per-packet one-way delay: 18.473 ms
Loss rate: 0.03%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-05-24 17:14:10

End at: 2018-05-24 17:14:40

Local clock offset: 0.277 ms

Remote clock offset: 0.12 ms

Below is generated by plot.py at 2018-05-24 19:37:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 440.68 Mbit/s

95th percentile per-packet one-way delay: 19.308 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 278.59 Mbit/s

95th percentile per-packet one-way delay: 18.751 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 172.84 Mbit/s

95th percentile per-packet one-way delay: 19.711 ms

Loss rate: 0.03%

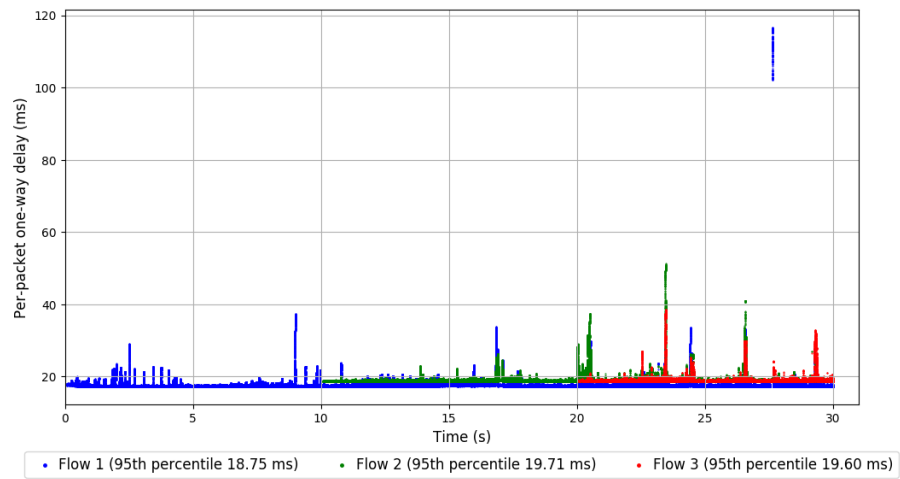
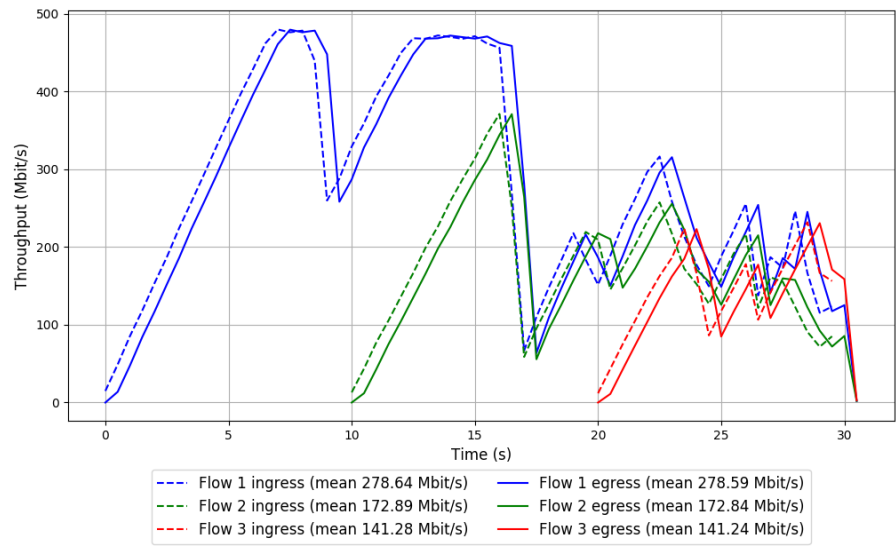
-- Flow 3:

Average throughput: 141.24 Mbit/s

95th percentile per-packet one-way delay: 19.598 ms

Loss rate: 0.02%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-05-24 17:40:03

End at: 2018-05-24 17:40:33

Local clock offset: 0.443 ms

Remote clock offset: 0.13 ms

Below is generated by plot.py at 2018-05-24 19:37:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 312.07 Mbit/s

95th percentile per-packet one-way delay: 19.903 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 135.33 Mbit/s

95th percentile per-packet one-way delay: 20.600 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 184.81 Mbit/s

95th percentile per-packet one-way delay: 18.942 ms

Loss rate: 0.03%

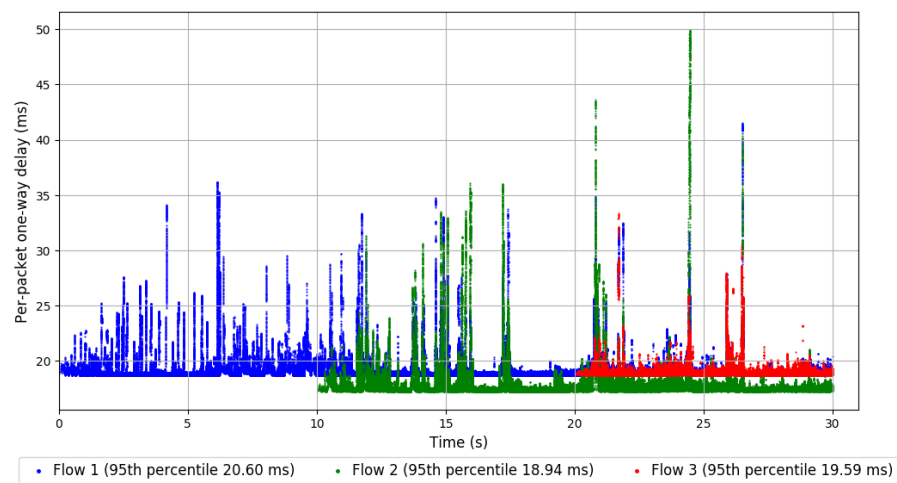
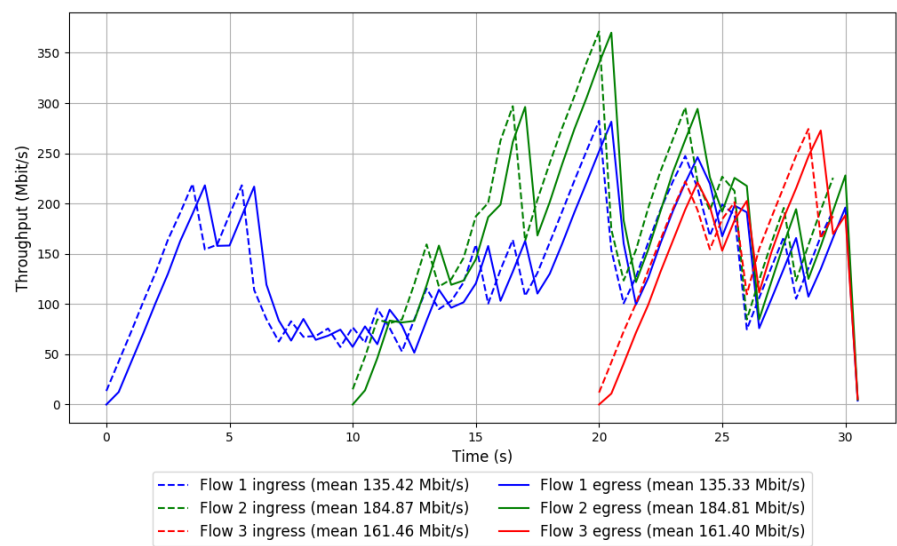
-- Flow 3:

Average throughput: 161.40 Mbit/s

95th percentile per-packet one-way delay: 19.585 ms

Loss rate: 0.03%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-05-24 18:05:40

End at: 2018-05-24 18:06:10

Local clock offset: 0.511 ms

Remote clock offset: 0.16 ms

Below is generated by plot.py at 2018-05-24 19:37:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 423.58 Mbit/s

95th percentile per-packet one-way delay: 19.386 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 244.74 Mbit/s

95th percentile per-packet one-way delay: 19.720 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 192.62 Mbit/s

95th percentile per-packet one-way delay: 18.283 ms

Loss rate: 0.03%

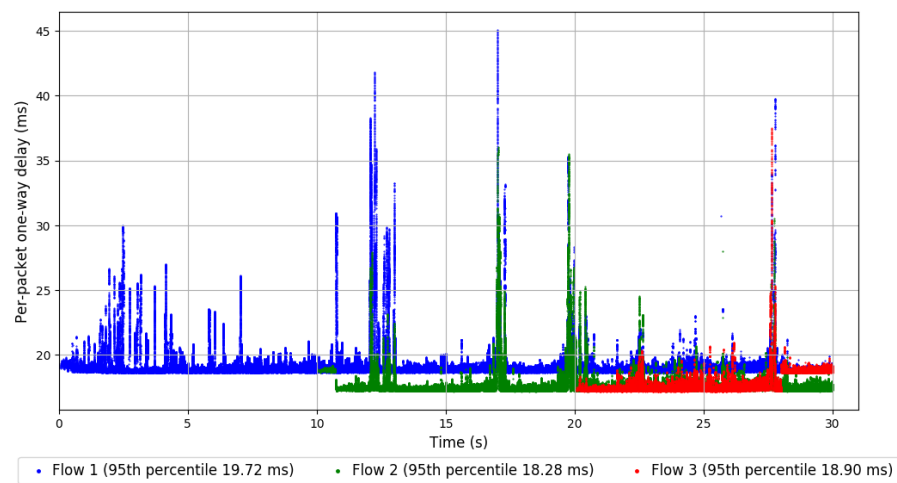
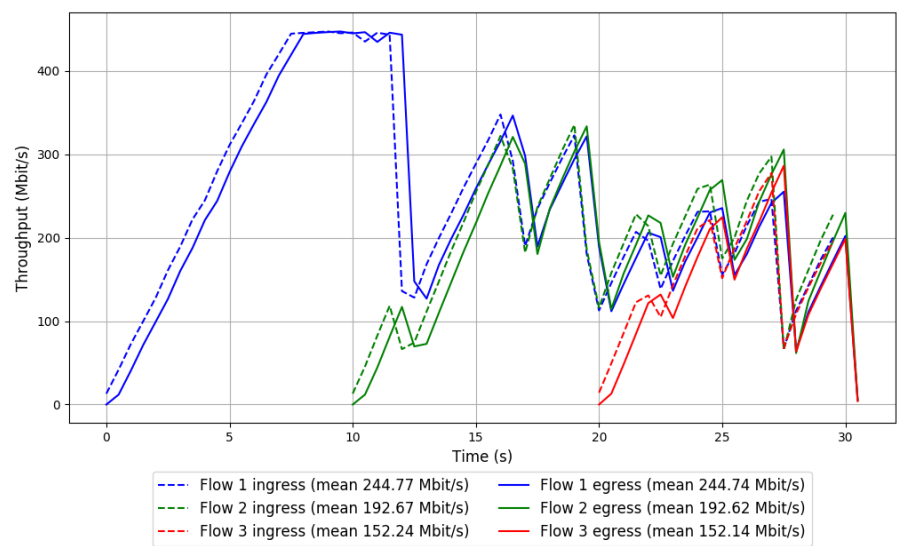
-- Flow 3:

Average throughput: 152.14 Mbit/s

95th percentile per-packet one-way delay: 18.904 ms

Loss rate: 0.05%

Run 10: Report of LEDBAT — Data Link

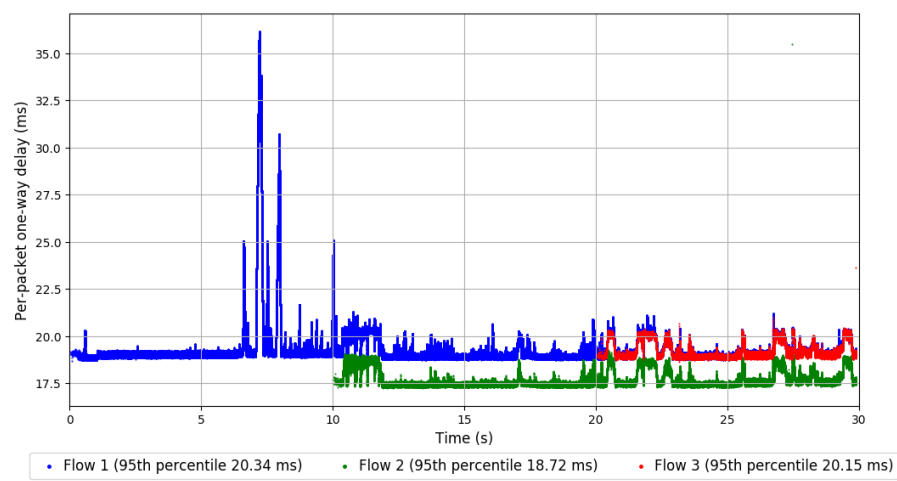
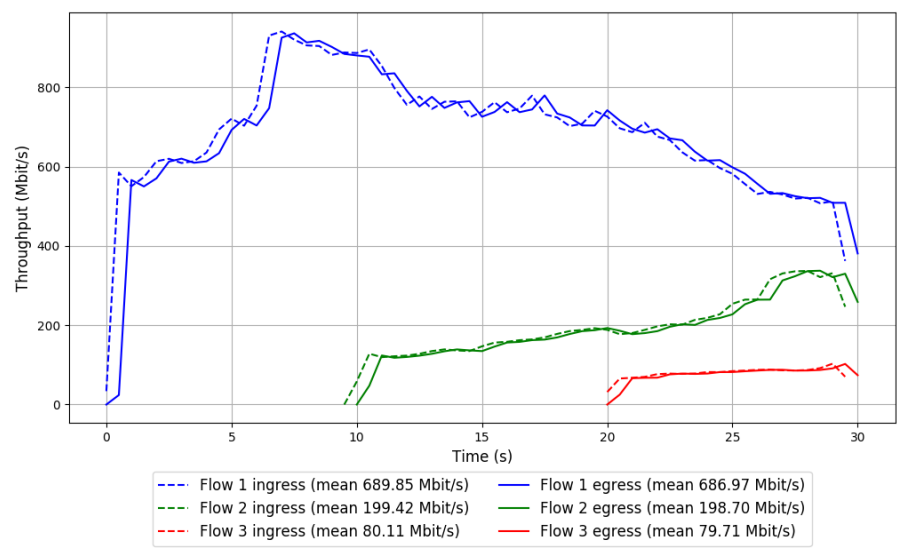


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-05-24 13:58:02
End at: 2018-05-24 13:58:32
Local clock offset: 0.155 ms
Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2018-05-24 19:43:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 845.35 Mbit/s
95th percentile per-packet one-way delay: 20.302 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 686.97 Mbit/s
95th percentile per-packet one-way delay: 20.342 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 198.70 Mbit/s
95th percentile per-packet one-way delay: 18.717 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 79.71 Mbit/s
95th percentile per-packet one-way delay: 20.152 ms
Loss rate: 0.47%
```


Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-24 14:23:57

End at: 2018-05-24 14:24:27

Local clock offset: 0.513 ms

Remote clock offset: 0.559 ms

Below is generated by plot.py at 2018-05-24 19:44:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 844.47 Mbit/s

95th percentile per-packet one-way delay: 20.236 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 586.95 Mbit/s

95th percentile per-packet one-way delay: 20.227 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 310.72 Mbit/s

95th percentile per-packet one-way delay: 20.259 ms

Loss rate: 2.49%

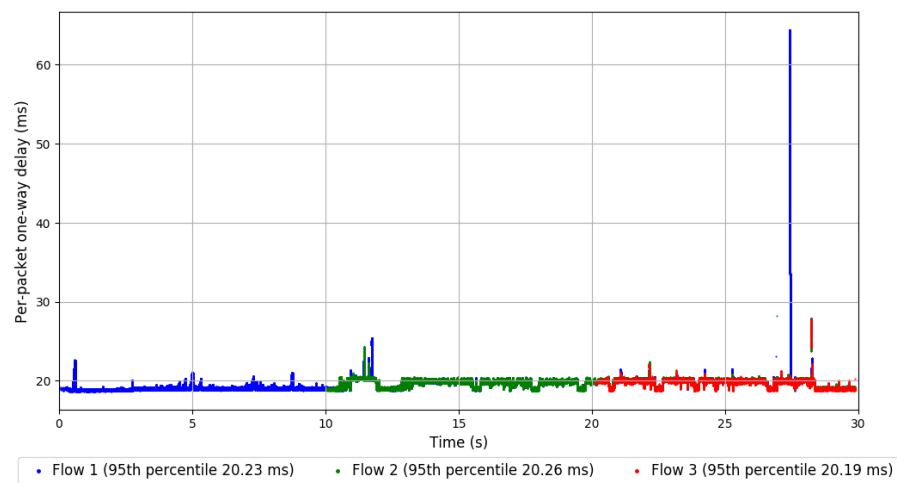
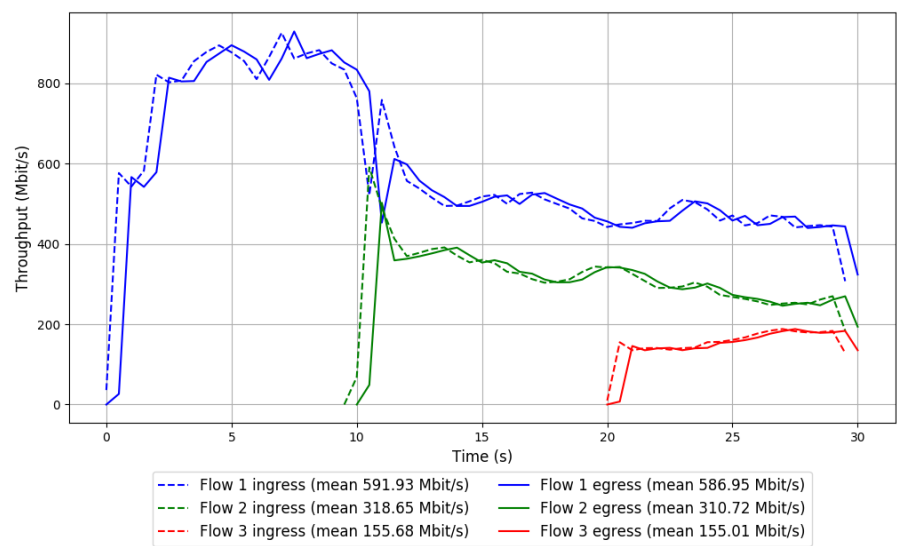
-- Flow 3:

Average throughput: 155.01 Mbit/s

95th percentile per-packet one-way delay: 20.193 ms

Loss rate: 0.46%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-05-24 14:49:57

End at: 2018-05-24 14:50:27

Local clock offset: 0.142 ms

Remote clock offset: 1.061 ms

Below is generated by plot.py at 2018-05-24 19:46:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 860.67 Mbit/s

95th percentile per-packet one-way delay: 20.526 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 707.95 Mbit/s

95th percentile per-packet one-way delay: 20.731 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 195.10 Mbit/s

95th percentile per-packet one-way delay: 20.287 ms

Loss rate: 0.70%

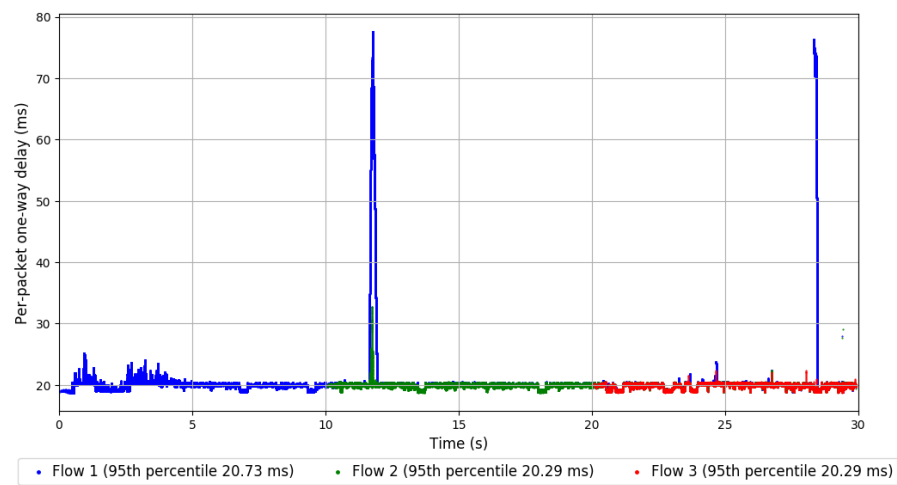
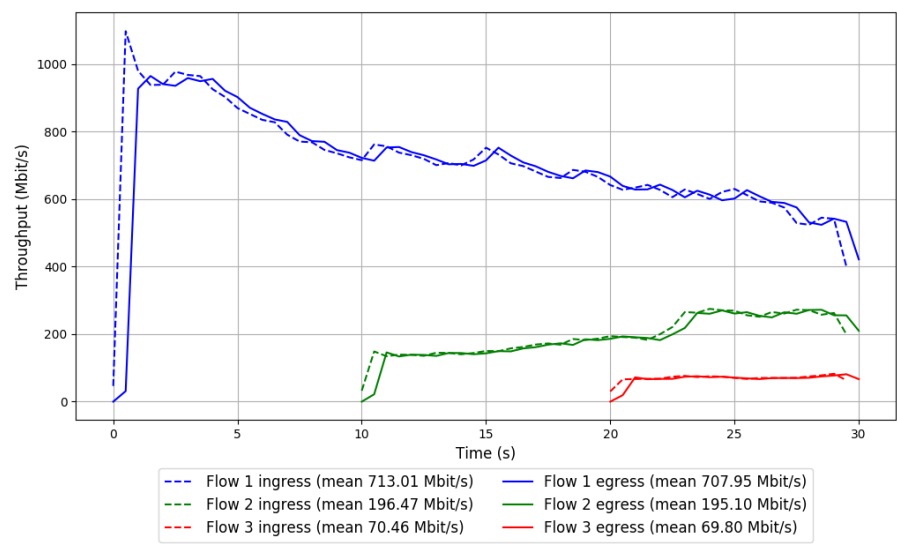
-- Flow 3:

Average throughput: 69.80 Mbit/s

95th percentile per-packet one-way delay: 20.286 ms

Loss rate: 0.95%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-05-24 15:16:04

End at: 2018-05-24 15:16:34

Local clock offset: 0.247 ms

Remote clock offset: 0.957 ms

Below is generated by plot.py at 2018-05-24 19:46:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 856.39 Mbit/s

95th percentile per-packet one-way delay: 20.221 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 608.74 Mbit/s

95th percentile per-packet one-way delay: 20.251 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 302.44 Mbit/s

95th percentile per-packet one-way delay: 18.813 ms

Loss rate: 0.79%

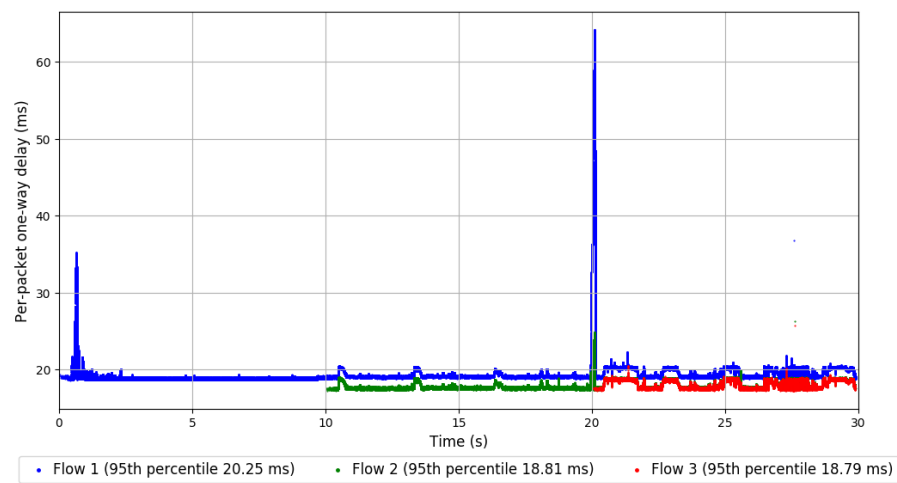
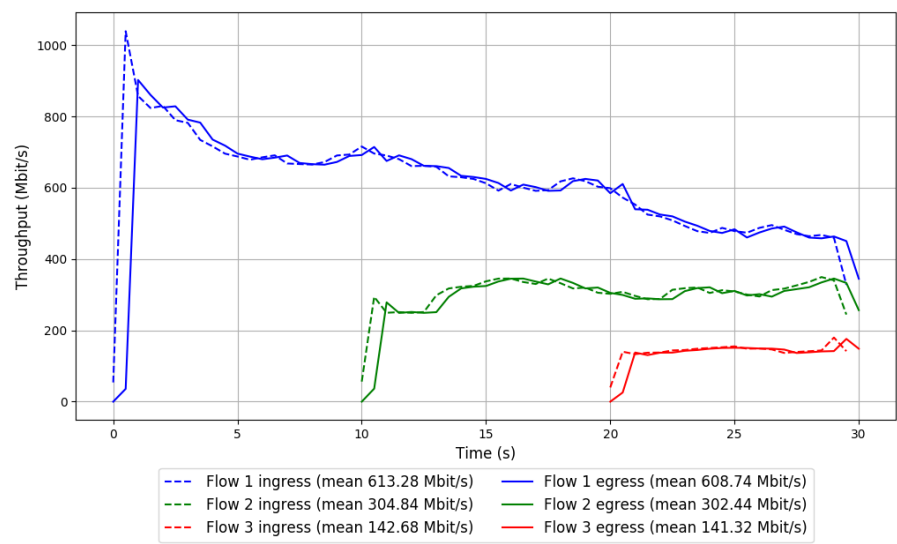
-- Flow 3:

Average throughput: 141.32 Mbit/s

95th percentile per-packet one-way delay: 18.788 ms

Loss rate: 0.96%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-05-24 15:41:45

End at: 2018-05-24 15:42:15

Local clock offset: 0.362 ms

Remote clock offset: 0.454 ms

Below is generated by plot.py at 2018-05-24 19:48:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 893.46 Mbit/s

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

Loss rate: 0.35%

-- Flow 1:

Average throughput: 771.20 Mbit/s

95th percentile per-packet one-way delay: 20.190 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 138.42 Mbit/s

95th percentile per-packet one-way delay: 20.137 ms

Loss rate: 0.66%

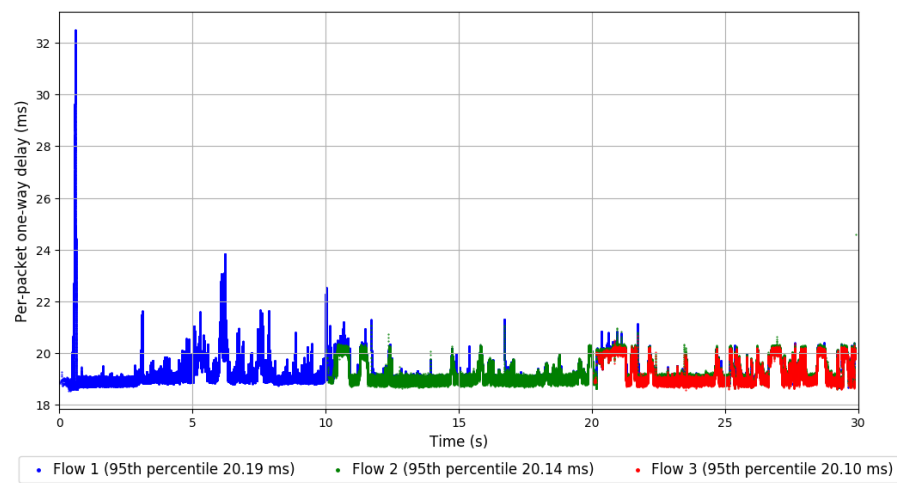
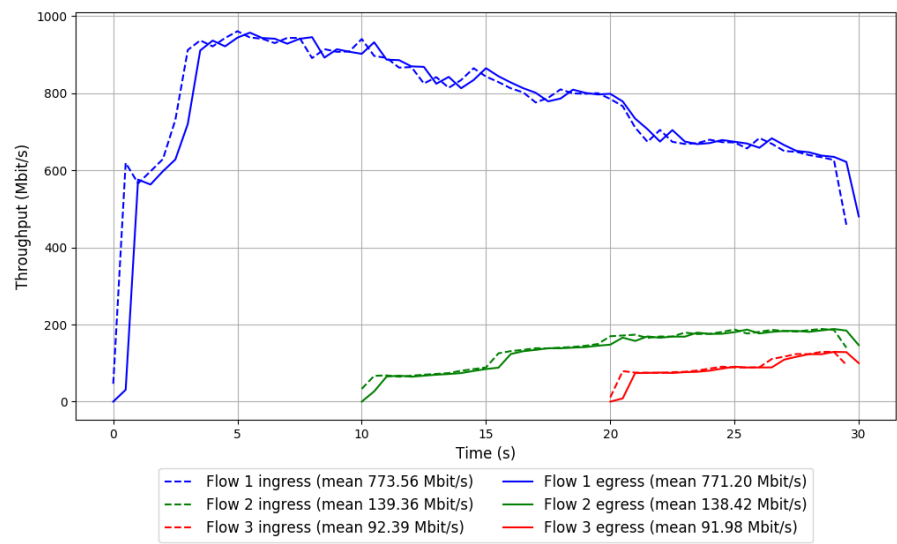
-- Flow 3:

Average throughput: 91.98 Mbit/s

95th percentile per-packet one-way delay: 20.098 ms

Loss rate: 0.45%

Run 5: Report of PCC-Allegro — Data Link

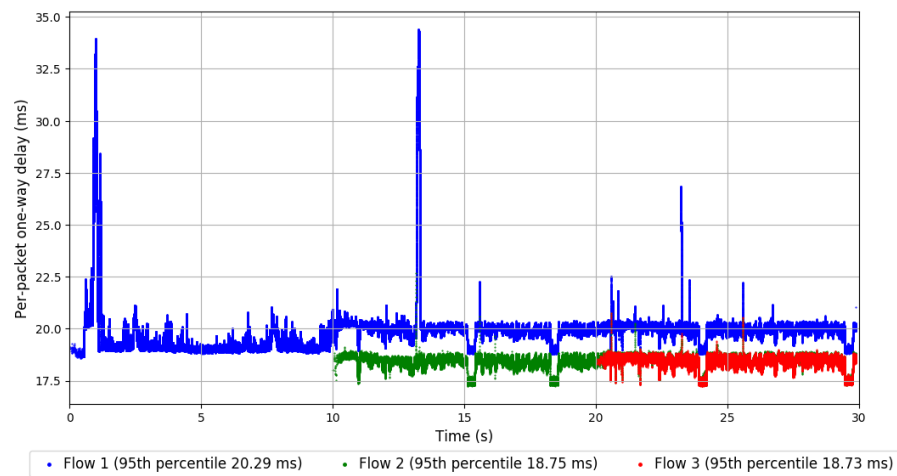
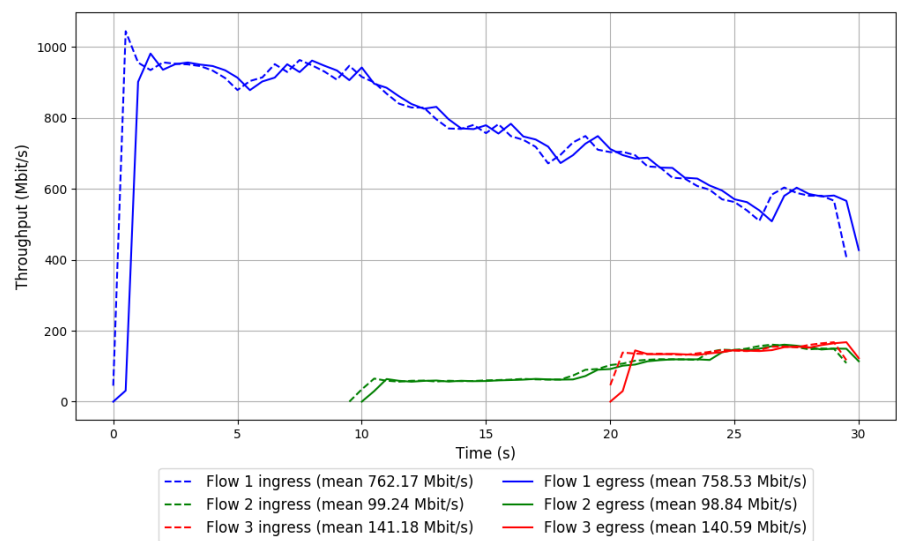


Run 6: Statistics of PCC-Allegro

Start at: 2018-05-24 16:07:36
End at: 2018-05-24 16:08:06
Local clock offset: 0.272 ms
Remote clock offset: -0.144 ms

```
# Below is generated by plot.py at 2018-05-24 19:48:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 870.71 Mbit/s
95th percentile per-packet one-way delay: 20.271 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 758.53 Mbit/s
95th percentile per-packet one-way delay: 20.289 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 98.84 Mbit/s
95th percentile per-packet one-way delay: 18.754 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 140.59 Mbit/s
95th percentile per-packet one-way delay: 18.734 ms
Loss rate: 0.41%
```

Run 6: Report of PCC-Allegro — Data Link

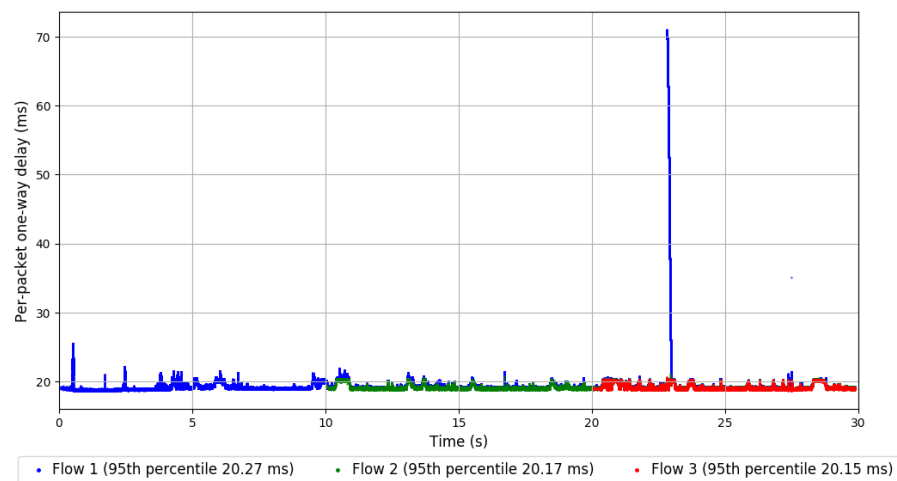
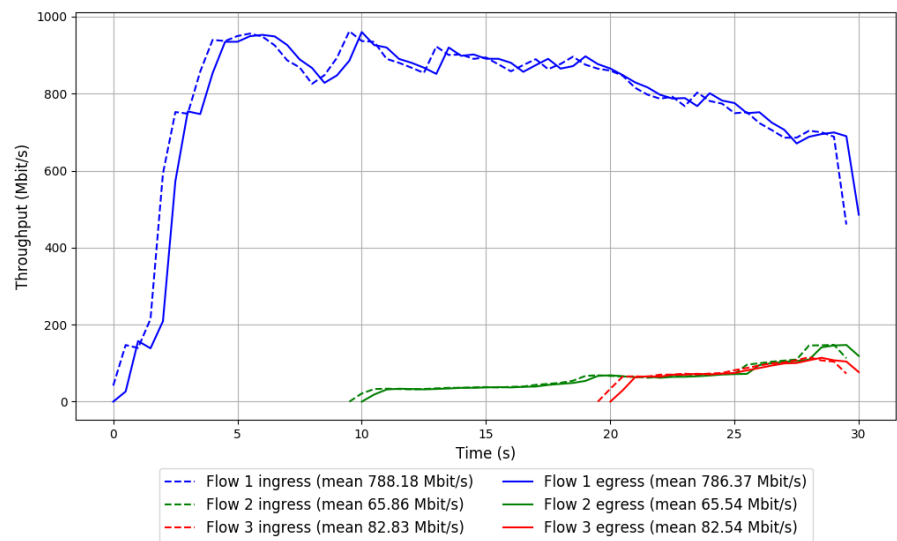


Run 7: Statistics of PCC-Allegro

Start at: 2018-05-24 16:33:27
End at: 2018-05-24 16:33:57
Local clock offset: 0.173 ms
Remote clock offset: -0.027 ms

Below is generated by plot.py at 2018-05-24 19:49:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 857.22 Mbit/s
95th percentile per-packet one-way delay: 20.257 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 786.37 Mbit/s
95th percentile per-packet one-way delay: 20.265 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 65.54 Mbit/s
95th percentile per-packet one-way delay: 20.168 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 82.54 Mbit/s
95th percentile per-packet one-way delay: 20.150 ms
Loss rate: 0.35%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-05-24 16:59:07

End at: 2018-05-24 16:59:37

Local clock offset: 0.102 ms

Remote clock offset: 0.054 ms

Below is generated by plot.py at 2018-05-24 19:49:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 815.20 Mbit/s

95th percentile per-packet one-way delay: 20.363 ms

Loss rate: 0.76%

-- Flow 1:

Average throughput: 623.57 Mbit/s

95th percentile per-packet one-way delay: 20.368 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 209.91 Mbit/s

95th percentile per-packet one-way delay: 20.364 ms

Loss rate: 1.25%

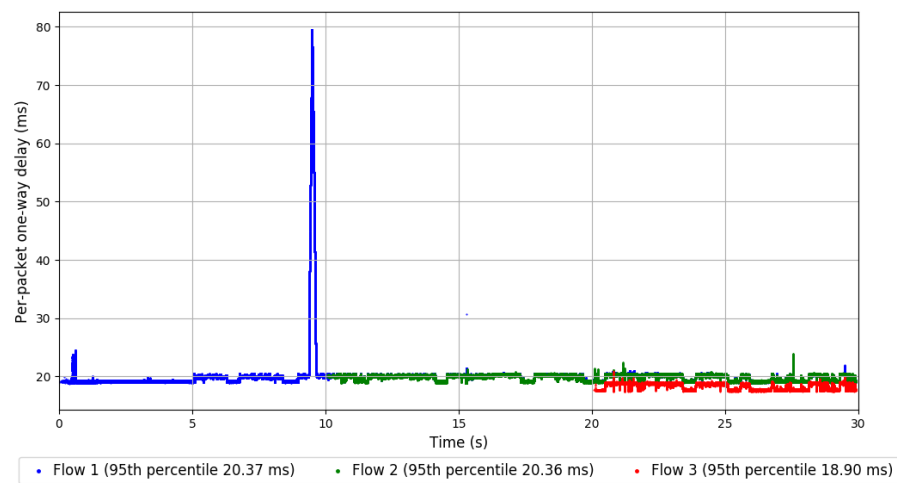
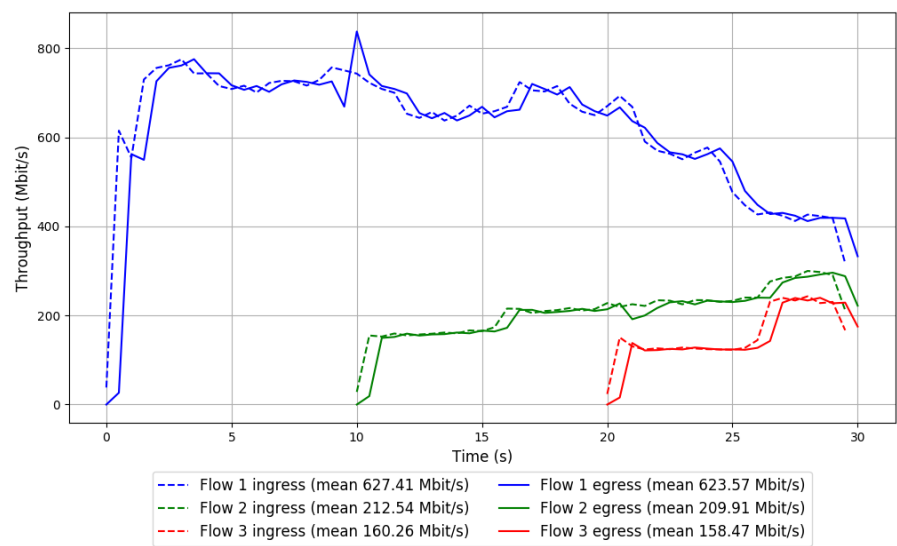
-- Flow 3:

Average throughput: 158.47 Mbit/s

95th percentile per-packet one-way delay: 18.901 ms

Loss rate: 1.12%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-05-24 17:24:55

End at: 2018-05-24 17:25:25

Local clock offset: 0.317 ms

Remote clock offset: 0.1 ms

Below is generated by plot.py at 2018-05-24 19:55:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 863.72 Mbit/s

95th percentile per-packet one-way delay: 20.254 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 787.02 Mbit/s

95th percentile per-packet one-way delay: 20.264 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 112.25 Mbit/s

95th percentile per-packet one-way delay: 18.618 ms

Loss rate: 0.22%

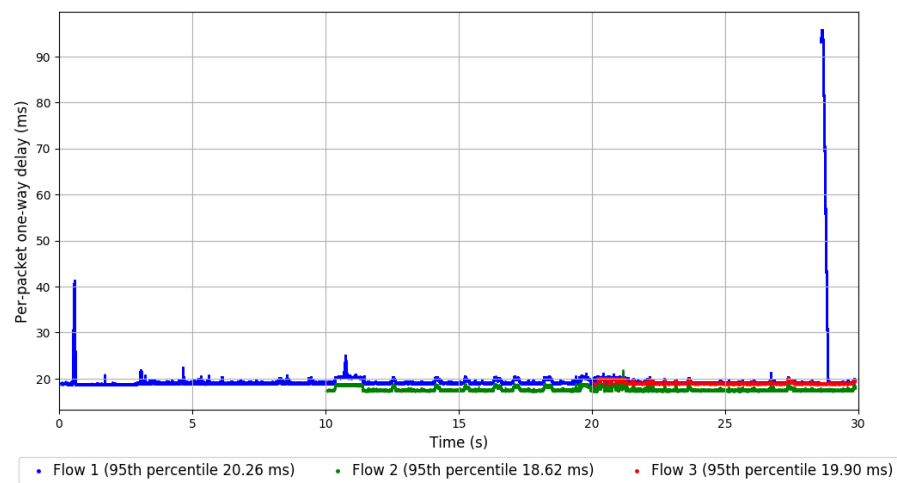
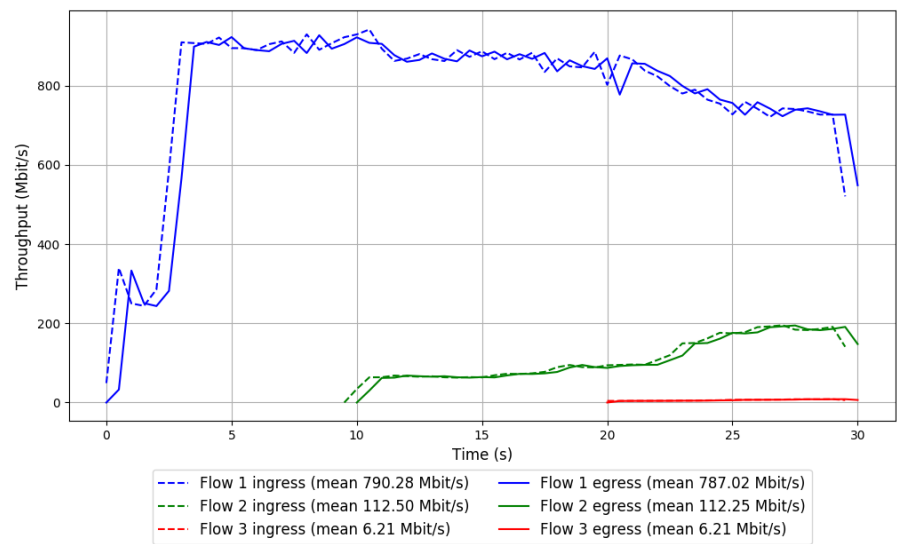
-- Flow 3:

Average throughput: 6.21 Mbit/s

95th percentile per-packet one-way delay: 19.904 ms

Loss rate: 0.11%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-05-24 17:50:29

End at: 2018-05-24 17:50:59

Local clock offset: 0.636 ms

Remote clock offset: 0.224 ms

Below is generated by plot.py at 2018-05-24 19:55:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 813.89 Mbit/s

95th percentile per-packet one-way delay: 19.423 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 719.56 Mbit/s

95th percentile per-packet one-way delay: 18.797 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 110.69 Mbit/s

95th percentile per-packet one-way delay: 20.150 ms

Loss rate: 0.59%

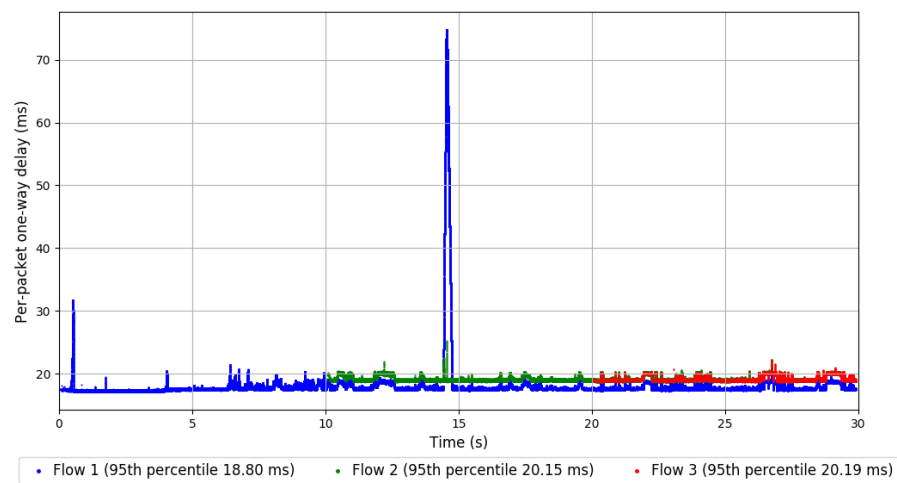
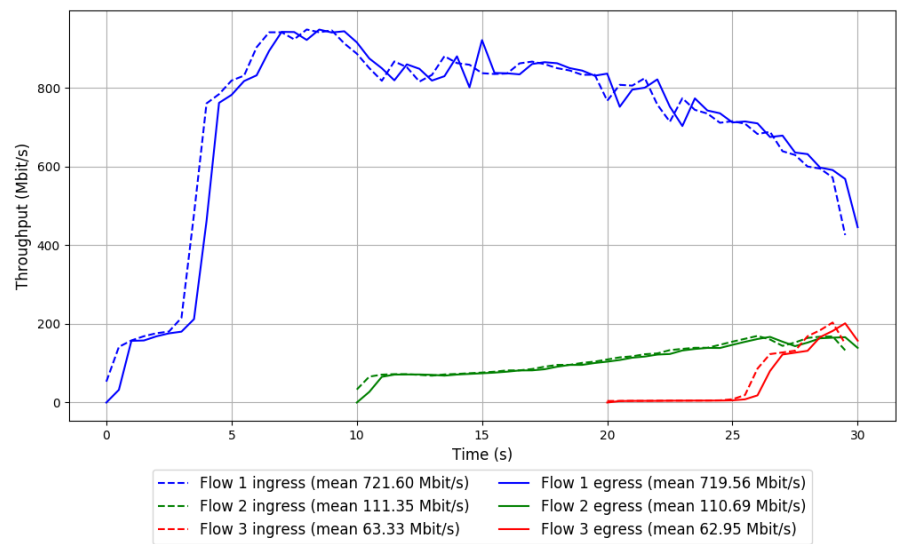
-- Flow 3:

Average throughput: 62.95 Mbit/s

95th percentile per-packet one-way delay: 20.190 ms

Loss rate: 0.60%

Run 10: Report of PCC-Allegro — Data Link

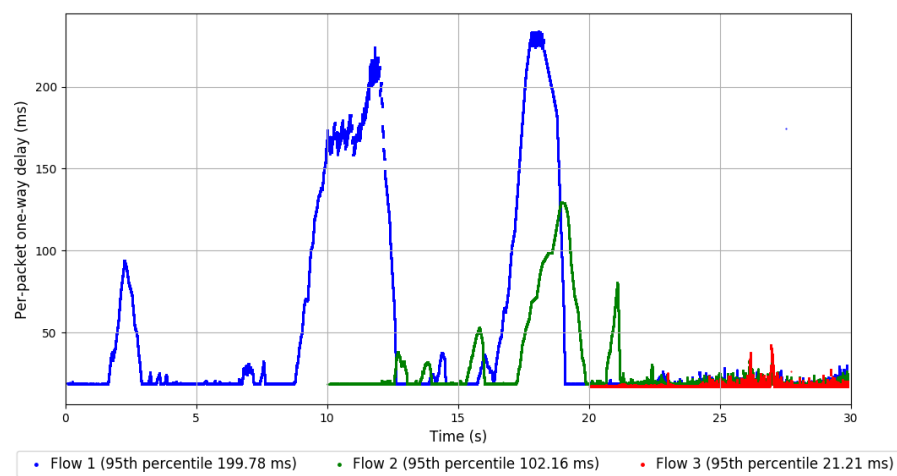
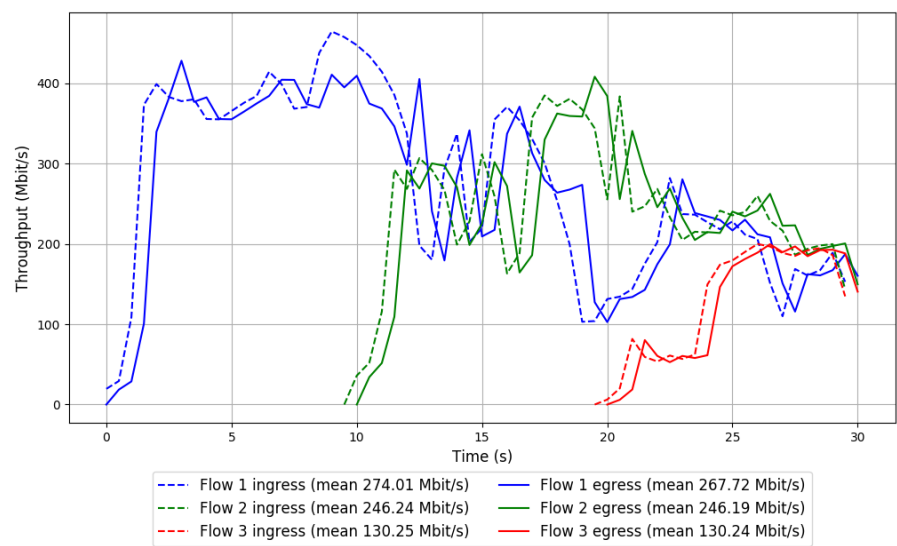


```
Run 1: Statistics of PCC-Expr

Start at: 2018-05-24 13:54:30
End at: 2018-05-24 13:55:00
Local clock offset: 0.246 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2018-05-24 19:58:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 474.61 Mbit/s
95th percentile per-packet one-way delay: 174.650 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 267.72 Mbit/s
95th percentile per-packet one-way delay: 199.777 ms
Loss rate: 2.30%
-- Flow 2:
Average throughput: 246.19 Mbit/s
95th percentile per-packet one-way delay: 102.162 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 130.24 Mbit/s
95th percentile per-packet one-way delay: 21.212 ms
Loss rate: 0.01%
```

Run 1: Report of PCC-Expr — Data Link

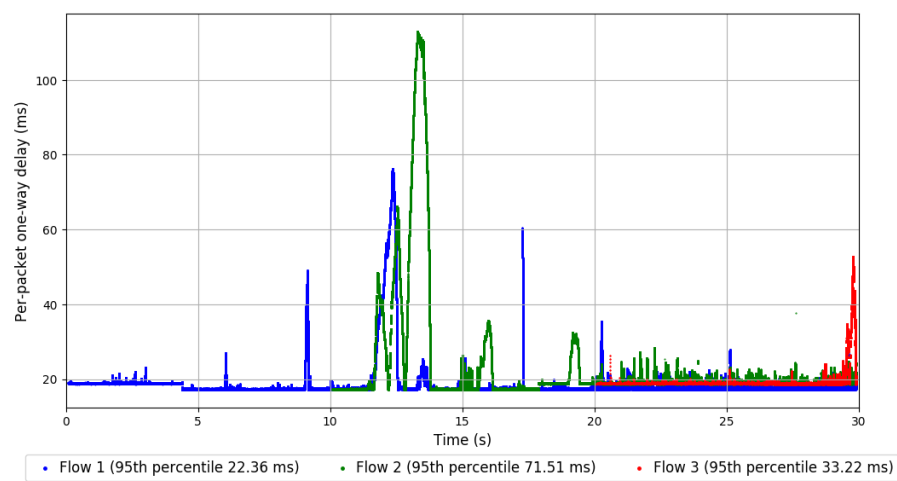
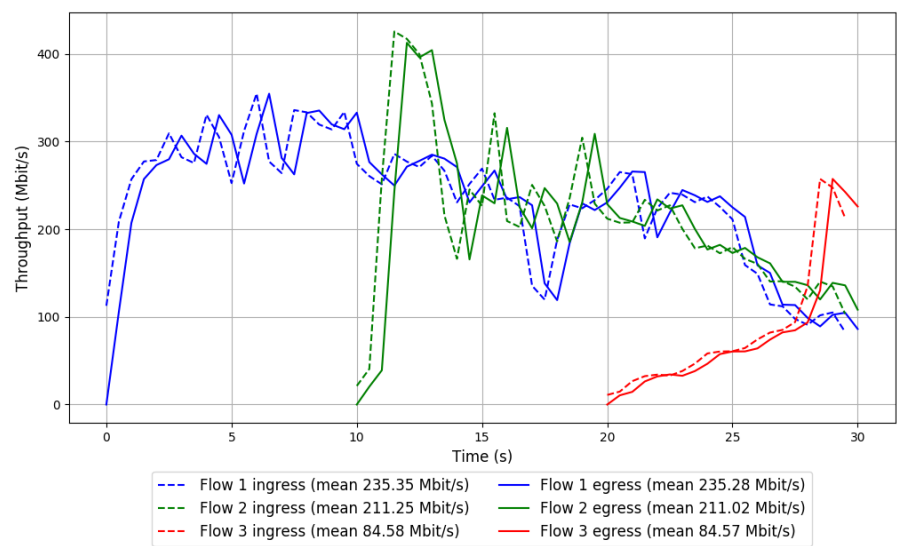


```
Run 2: Statistics of PCC-Expr

Start at: 2018-05-24 14:20:34
End at: 2018-05-24 14:21:04
Local clock offset: 0.501 ms
Remote clock offset: 0.482 ms

# Below is generated by plot.py at 2018-05-24 19:58:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 403.57 Mbit/s
95th percentile per-packet one-way delay: 43.188 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 235.28 Mbit/s
95th percentile per-packet one-way delay: 22.364 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 211.02 Mbit/s
95th percentile per-packet one-way delay: 71.506 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 84.57 Mbit/s
95th percentile per-packet one-way delay: 33.221 ms
Loss rate: 0.01%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-05-24 14:46:41

End at: 2018-05-24 14:47:11

Local clock offset: 0.209 ms

Remote clock offset: 0.94 ms

Below is generated by plot.py at 2018-05-24 19:58:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 386.29 Mbit/s

95th percentile per-packet one-way delay: 25.317 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 215.62 Mbit/s

95th percentile per-packet one-way delay: 18.372 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 186.43 Mbit/s

95th percentile per-packet one-way delay: 76.870 ms

Loss rate: 0.02%

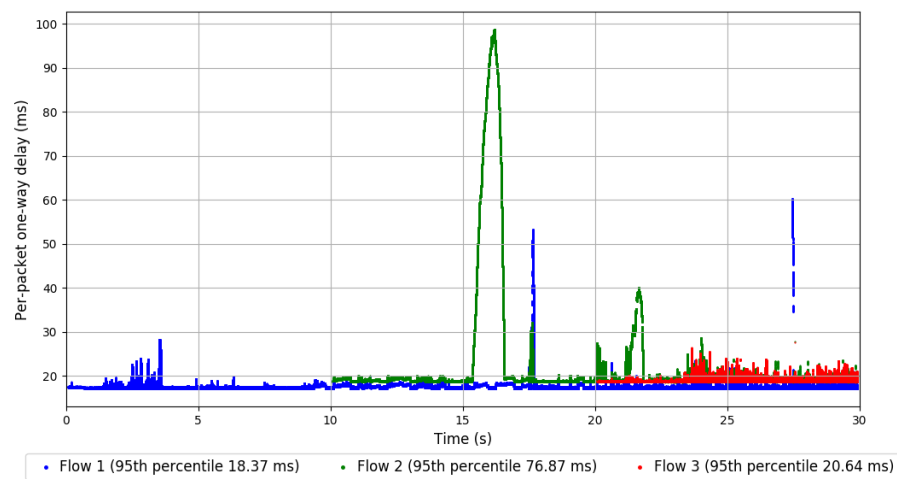
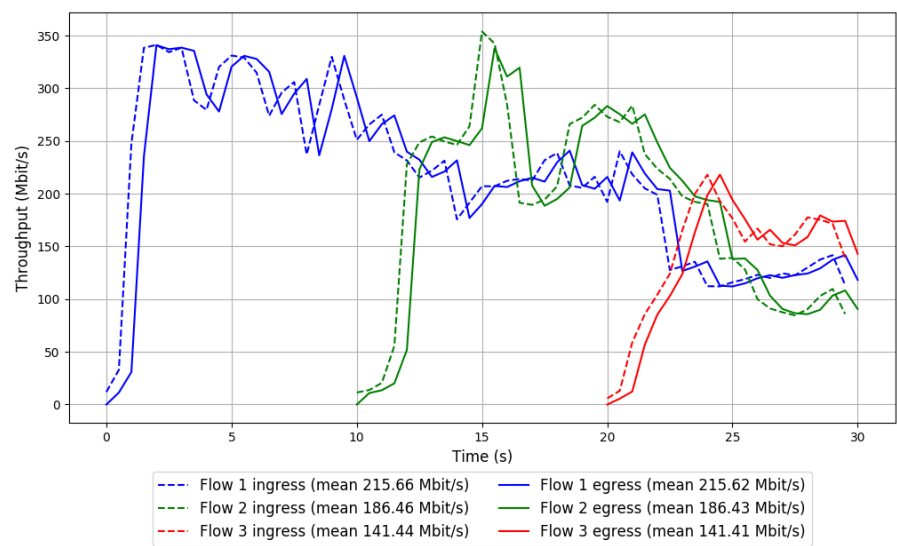
-- Flow 3:

Average throughput: 141.41 Mbit/s

95th percentile per-packet one-way delay: 20.642 ms

Loss rate: 0.01%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-05-24 15:12:39

End at: 2018-05-24 15:13:09

Local clock offset: 0.246 ms

Remote clock offset: 1.168 ms

Below is generated by plot.py at 2018-05-24 20:01:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 488.04 Mbit/s

95th percentile per-packet one-way delay: 152.530 ms

Loss rate: 4.47%

-- Flow 1:

Average throughput: 265.29 Mbit/s

95th percentile per-packet one-way delay: 35.290 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 312.25 Mbit/s

95th percentile per-packet one-way delay: 159.360 ms

Loss rate: 9.74%

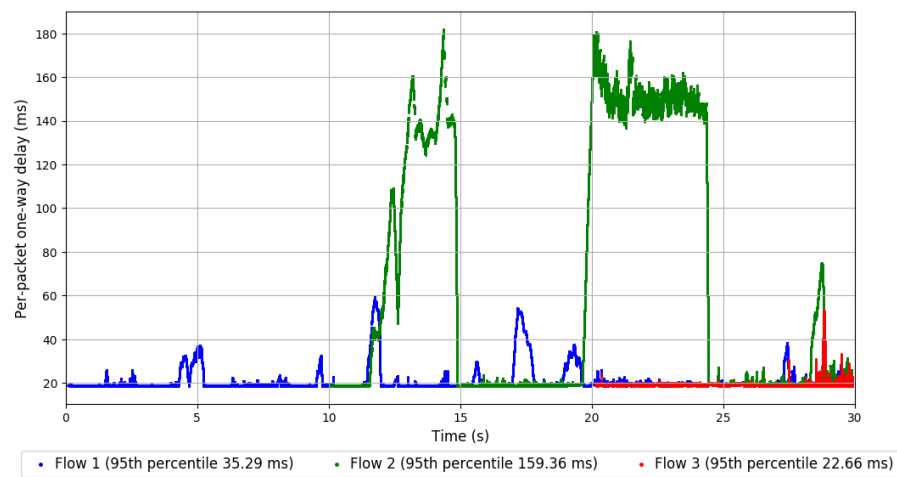
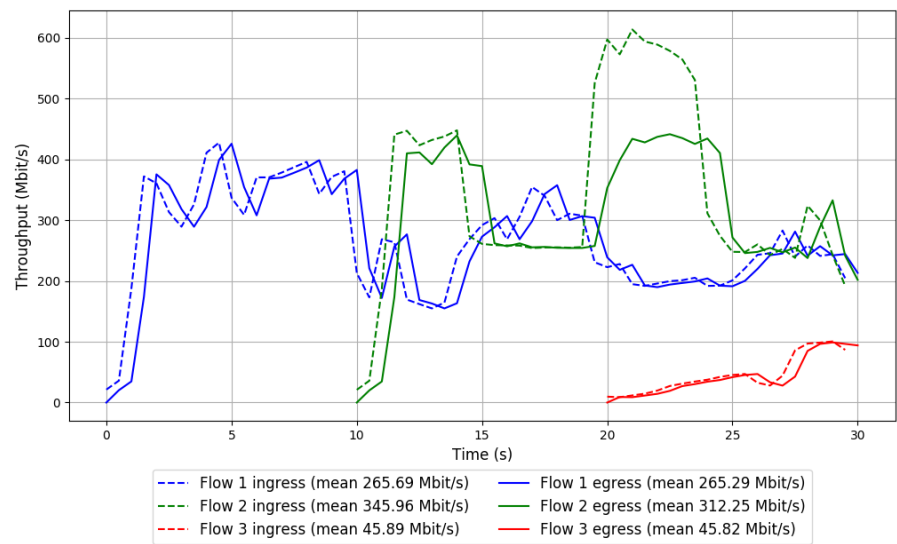
-- Flow 3:

Average throughput: 45.82 Mbit/s

95th percentile per-packet one-way delay: 22.659 ms

Loss rate: 0.24%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-05-24 15:38:22

End at: 2018-05-24 15:38:52

Local clock offset: 0.36 ms

Remote clock offset: 0.55 ms

Below is generated by plot.py at 2018-05-24 20:01:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 500.89 Mbit/s

95th percentile per-packet one-way delay: 107.040 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 269.22 Mbit/s

95th percentile per-packet one-way delay: 43.856 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 234.06 Mbit/s

95th percentile per-packet one-way delay: 147.989 ms

Loss rate: 0.01%

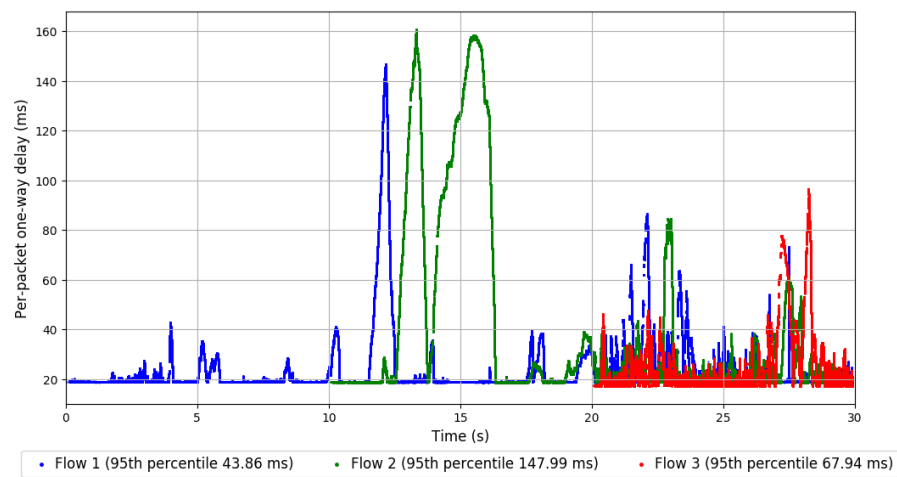
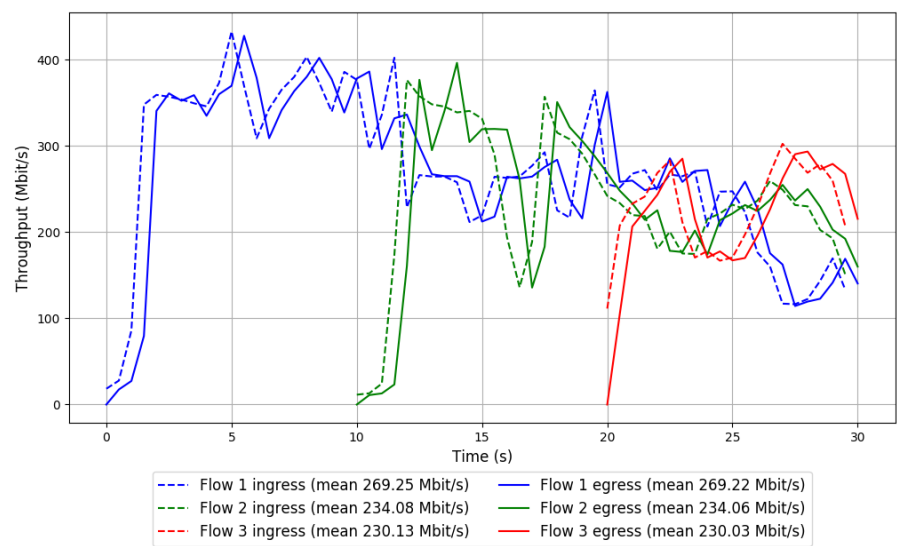
-- Flow 3:

Average throughput: 230.03 Mbit/s

95th percentile per-packet one-way delay: 67.942 ms

Loss rate: 0.04%

Run 5: Report of PCC-Expr — Data Link

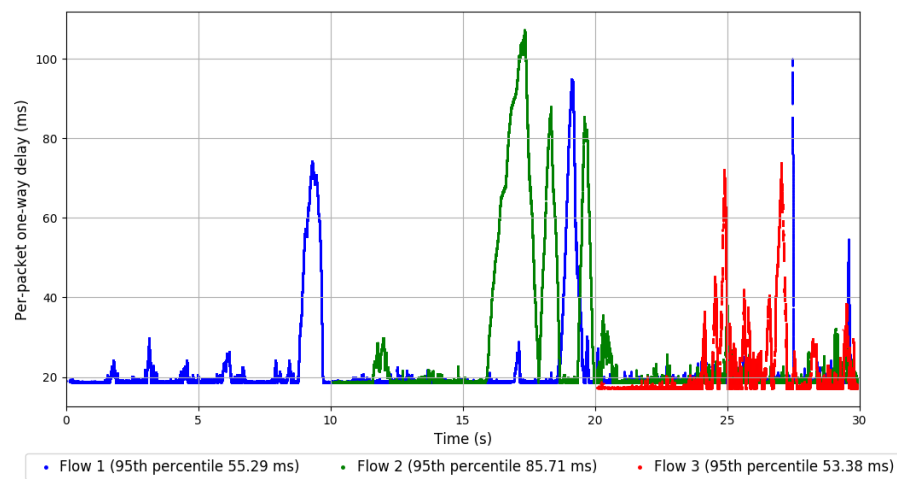
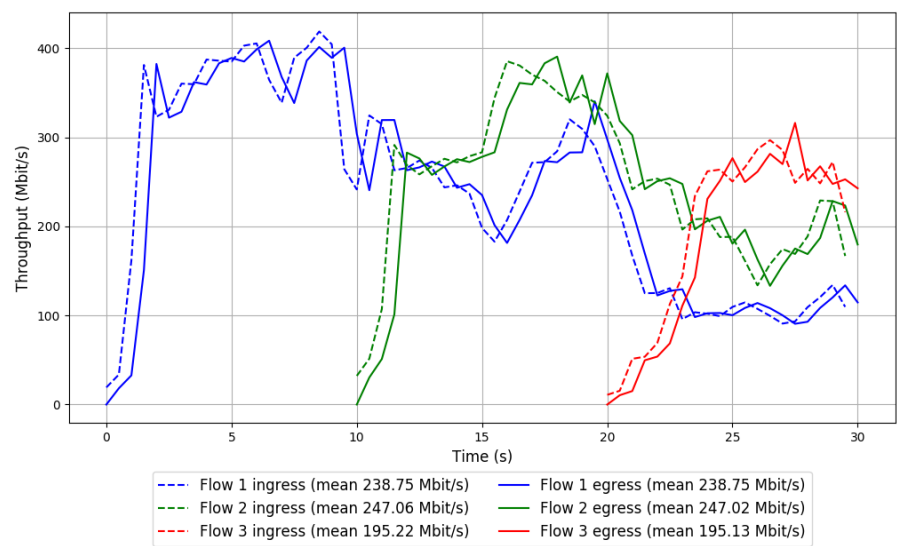


Run 6: Statistics of PCC-Expr

Start at: 2018-05-24 16:04:10
End at: 2018-05-24 16:04:40
Local clock offset: 0.311 ms
Remote clock offset: -0.148 ms

Below is generated by plot.py at 2018-05-24 20:01:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 467.33 Mbit/s
95th percentile per-packet one-way delay: 68.639 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 238.75 Mbit/s
95th percentile per-packet one-way delay: 55.293 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 247.02 Mbit/s
95th percentile per-packet one-way delay: 85.710 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 195.13 Mbit/s
95th percentile per-packet one-way delay: 53.379 ms
Loss rate: 0.05%

Run 6: Report of PCC-Expr — Data Link

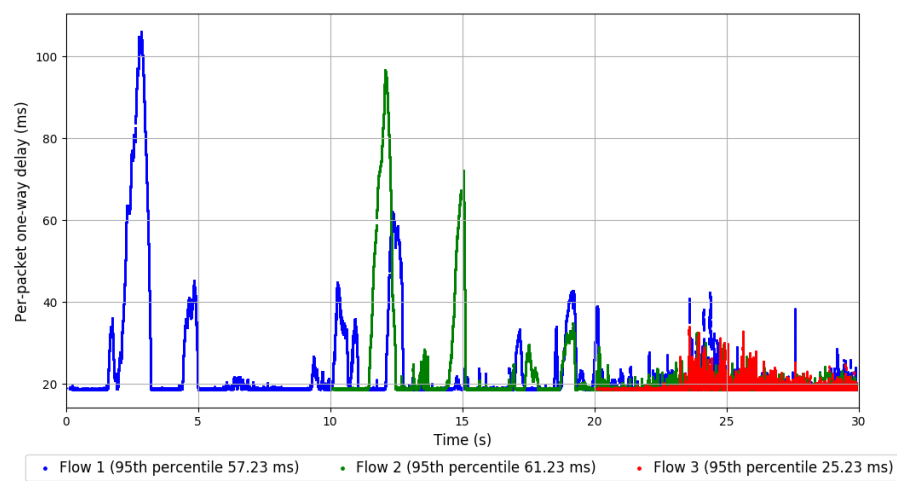
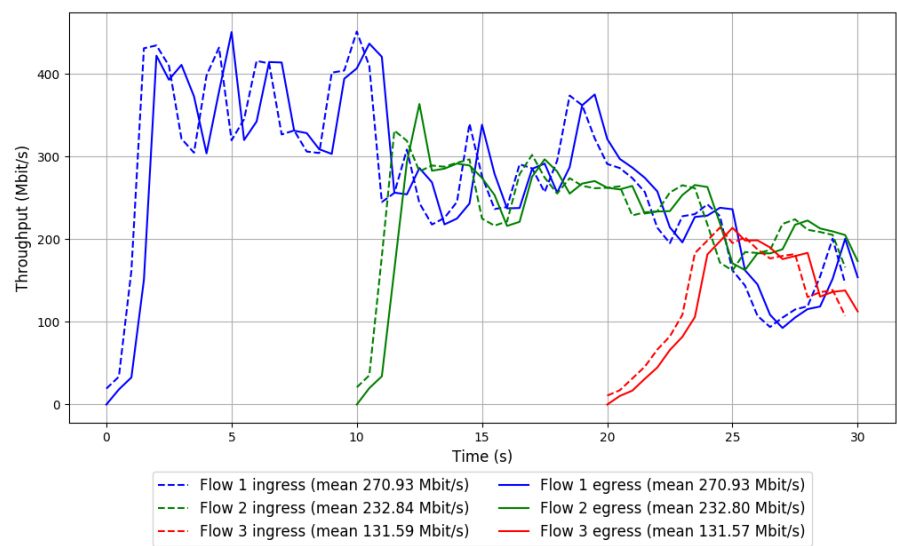


Run 7: Statistics of PCC-Expr

Start at: 2018-05-24 16:30:01
End at: 2018-05-24 16:30:31
Local clock offset: 0.139 ms
Remote clock offset: -0.036 ms

Below is generated by plot.py at 2018-05-24 20:08:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 469.15 Mbit/s
95th percentile per-packet one-way delay: 55.835 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 270.93 Mbit/s
95th percentile per-packet one-way delay: 57.234 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 232.80 Mbit/s
95th percentile per-packet one-way delay: 61.229 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 131.57 Mbit/s
95th percentile per-packet one-way delay: 25.231 ms
Loss rate: 0.02%

Run 7: Report of PCC-Expr — Data Link

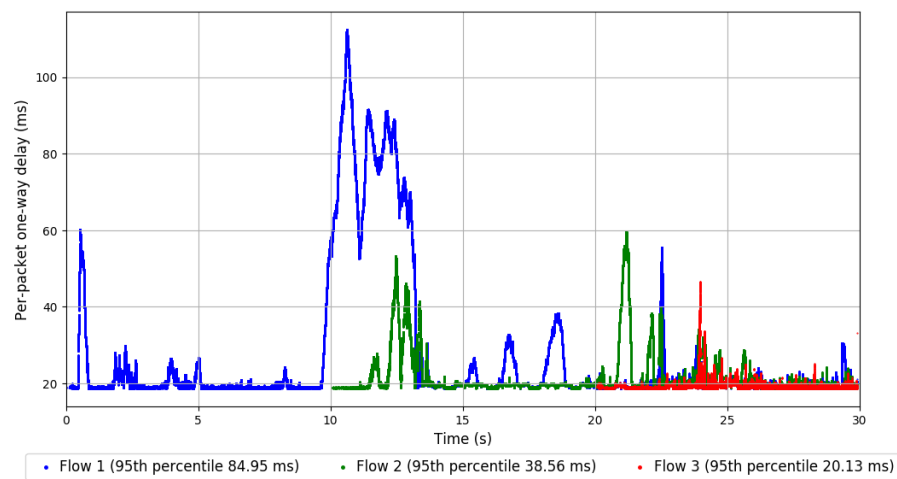
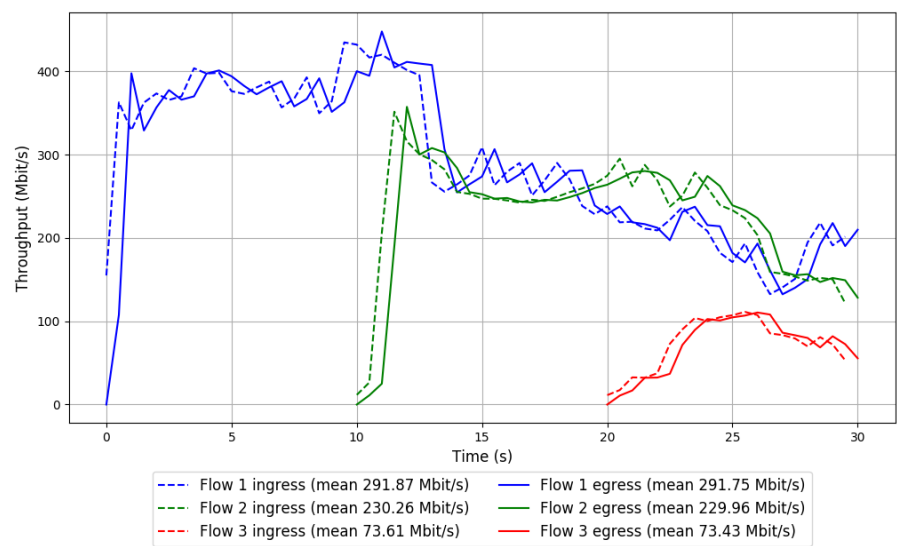


Run 8: Statistics of PCC-Expr

Start at: 2018-05-24 16:55:46
End at: 2018-05-24 16:56:16
Local clock offset: 0.107 ms
Remote clock offset: -0.075 ms

Below is generated by plot.py at 2018-05-24 20:08:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 468.79 Mbit/s
95th percentile per-packet one-way delay: 77.813 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 291.75 Mbit/s
95th percentile per-packet one-way delay: 84.947 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 229.96 Mbit/s
95th percentile per-packet one-way delay: 38.563 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 73.43 Mbit/s
95th percentile per-packet one-way delay: 20.129 ms
Loss rate: 0.10%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-05-24 17:21:24

End at: 2018-05-24 17:21:54

Local clock offset: 0.318 ms

Remote clock offset: 0.107 ms

Below is generated by plot.py at 2018-05-24 20:09:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 485.83 Mbit/s

95th percentile per-packet one-way delay: 149.192 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 290.99 Mbit/s

95th percentile per-packet one-way delay: 173.680 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 224.24 Mbit/s

95th percentile per-packet one-way delay: 122.855 ms

Loss rate: 0.05%

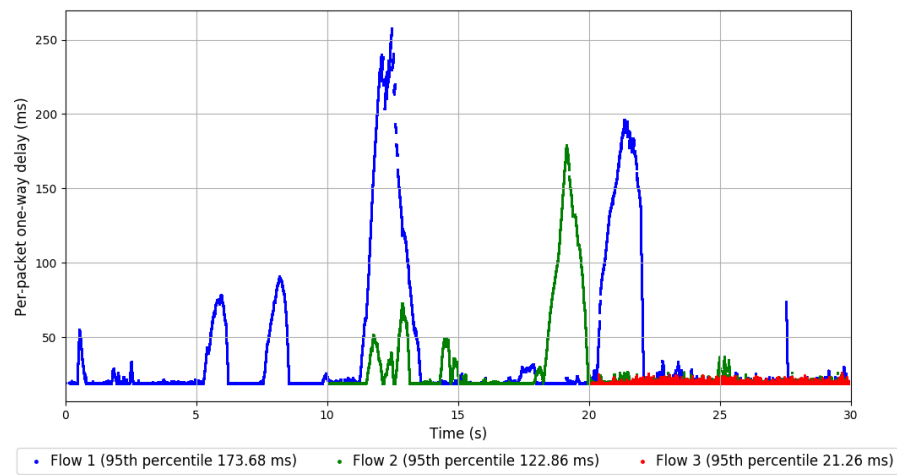
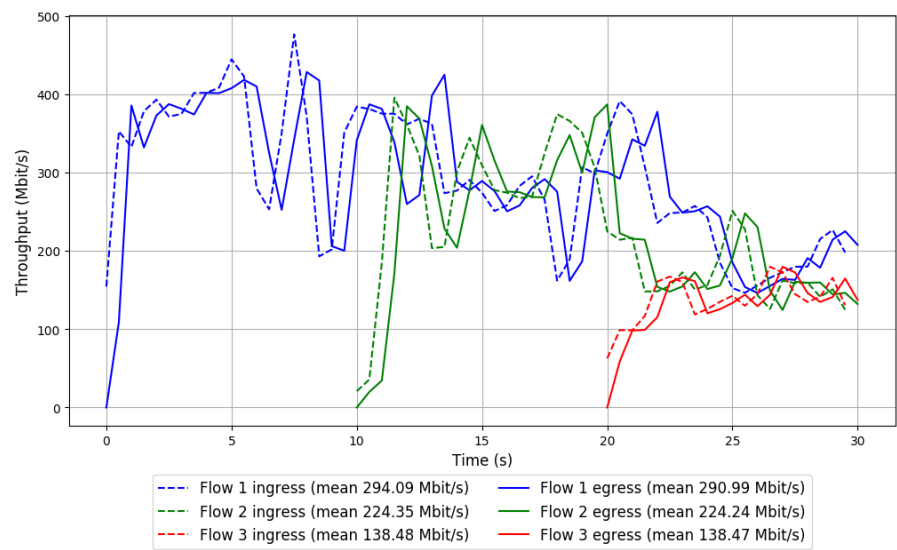
-- Flow 3:

Average throughput: 138.47 Mbit/s

95th percentile per-packet one-way delay: 21.263 ms

Loss rate: 0.01%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-05-24 17:47:12

End at: 2018-05-24 17:47:42

Local clock offset: 0.515 ms

Remote clock offset: 0.251 ms

Below is generated by plot.py at 2018-05-24 20:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 460.58 Mbit/s

95th percentile per-packet one-way delay: 144.179 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 289.97 Mbit/s

95th percentile per-packet one-way delay: 148.624 ms

Loss rate: 1.55%

-- Flow 2:

Average throughput: 224.41 Mbit/s

95th percentile per-packet one-way delay: 79.224 ms

Loss rate: 0.00%

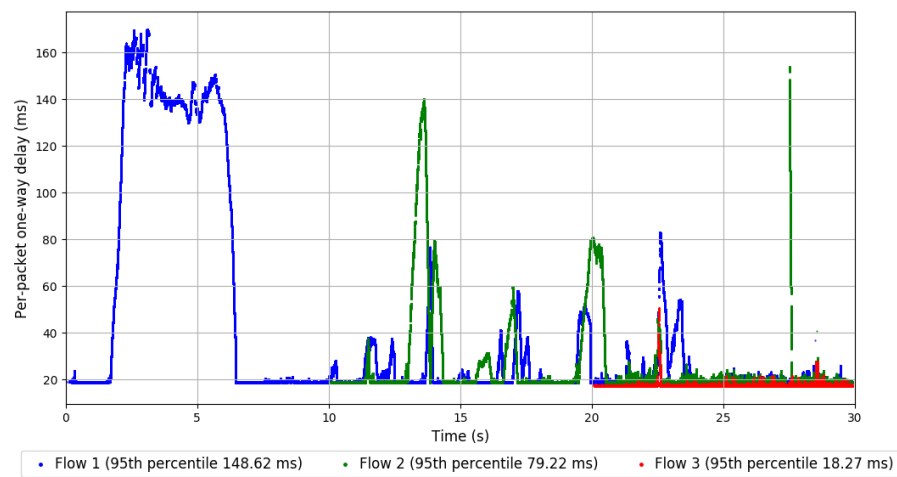
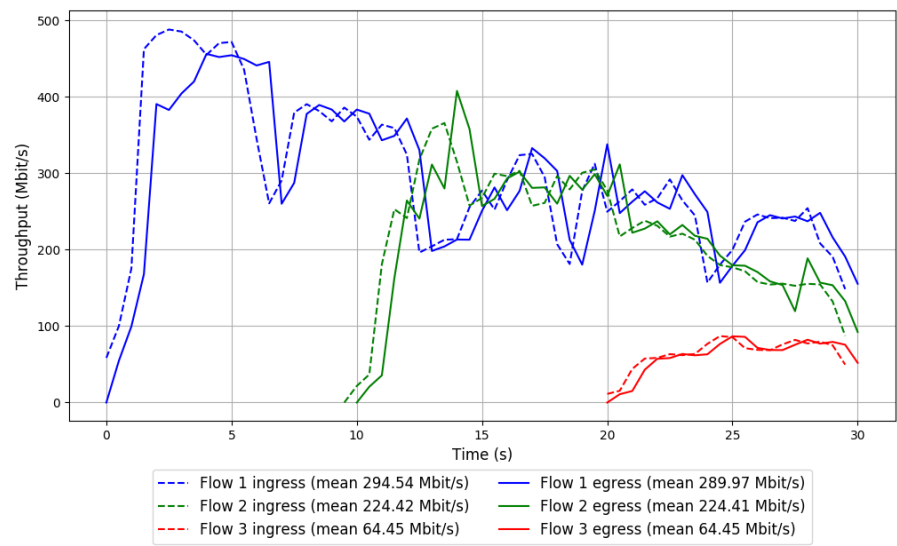
-- Flow 3:

Average throughput: 64.45 Mbit/s

95th percentile per-packet one-way delay: 18.269 ms

Loss rate: 0.01%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-05-24 14:11:50

End at: 2018-05-24 14:12:20

Local clock offset: 0.452 ms

Remote clock offset: 0.338 ms

Below is generated by plot.py at 2018-05-24 20:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.19 Mbit/s

95th percentile per-packet one-way delay: 18.841 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 18.908 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 72.41 Mbit/s

95th percentile per-packet one-way delay: 18.831 ms

Loss rate: 0.01%

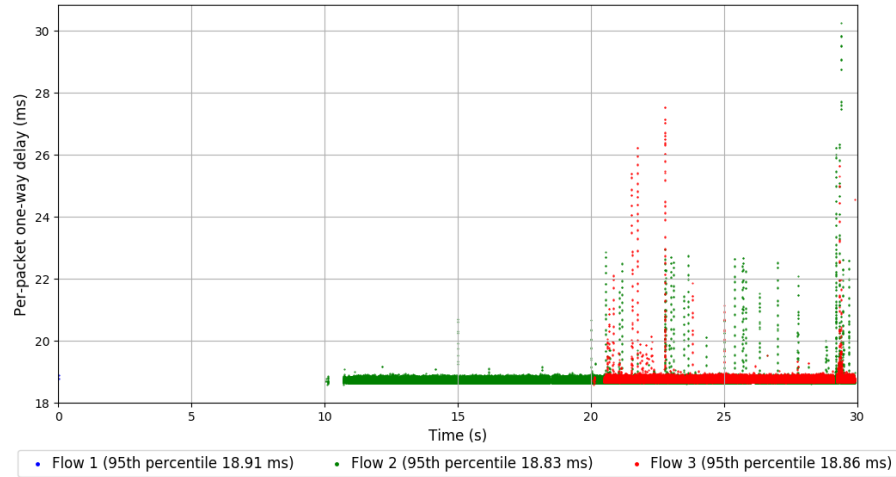
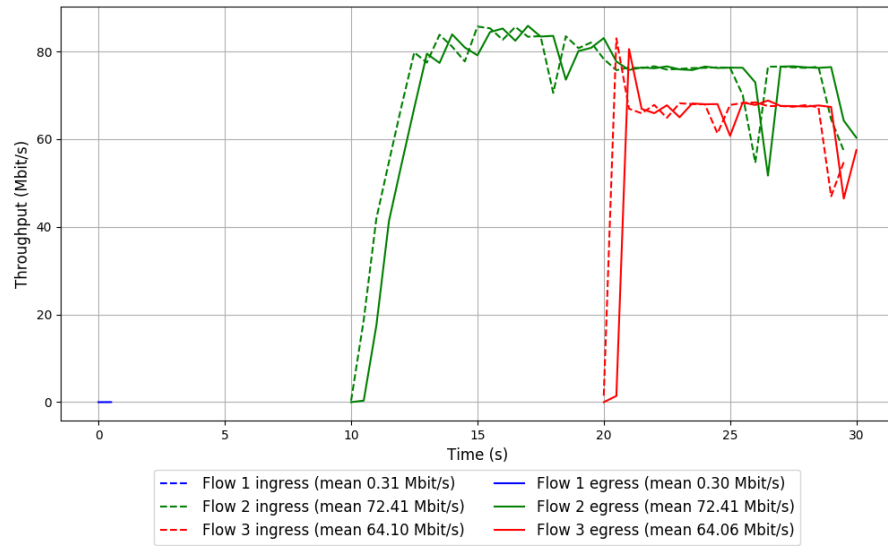
-- Flow 3:

Average throughput: 64.06 Mbit/s

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

Loss rate: 0.02%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-05-24 14:37:56

End at: 2018-05-24 14:38:26

Local clock offset: 0.22 ms

Remote clock offset: 0.815 ms

Below is generated by plot.py at 2018-05-24 20:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.80 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.50 Mbit/s

95th percentile per-packet one-way delay: 18.892 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.71 Mbit/s

95th percentile per-packet one-way delay: 18.897 ms

Loss rate: 0.00%

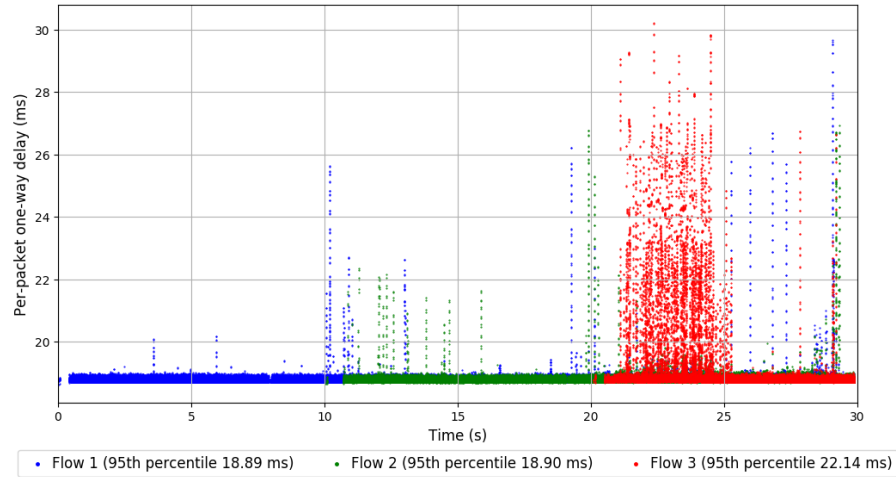
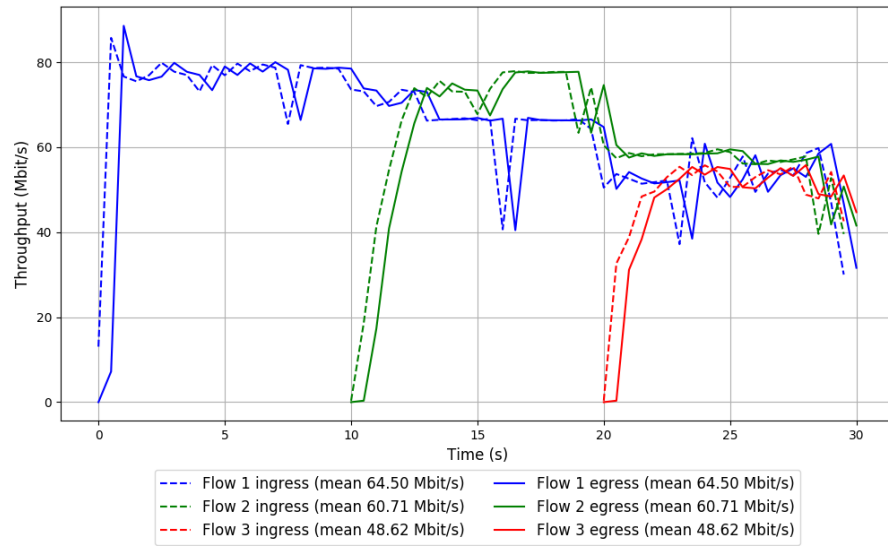
-- Flow 3:

Average throughput: 48.62 Mbit/s

95th percentile per-packet one-way delay: 22.145 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-05-24 15:03:44

End at: 2018-05-24 15:04:14

Local clock offset: 0.219 ms

Remote clock offset: 1.359 ms

Below is generated by plot.py at 2018-05-24 20:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.55 Mbit/s

95th percentile per-packet one-way delay: 21.390 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 68.94 Mbit/s

95th percentile per-packet one-way delay: 19.945 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.57 Mbit/s

95th percentile per-packet one-way delay: 21.052 ms

Loss rate: 0.00%

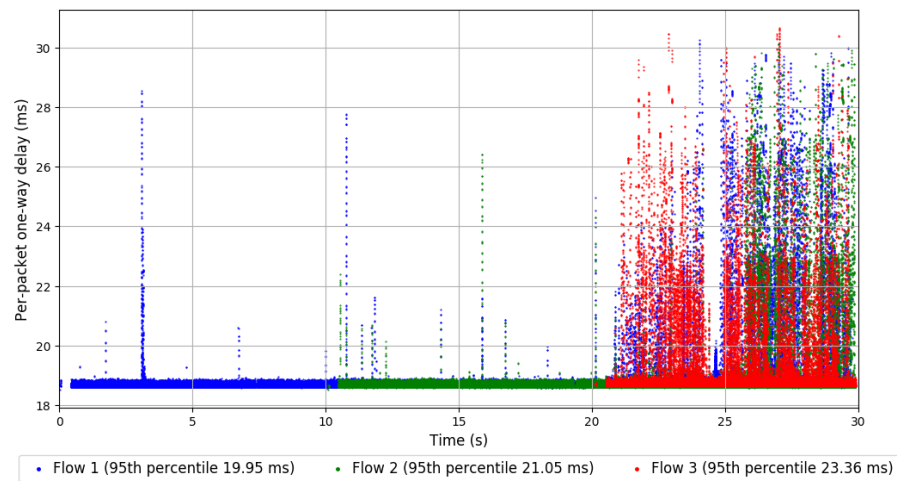
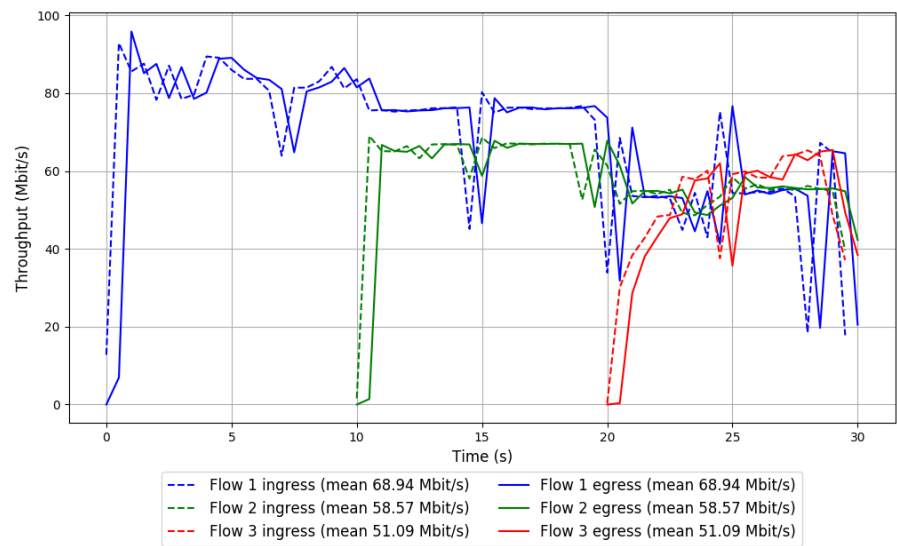
-- Flow 3:

Average throughput: 51.09 Mbit/s

95th percentile per-packet one-way delay: 23.364 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-05-24 15:29:45

End at: 2018-05-24 15:30:15

Local clock offset: 0.262 ms

Remote clock offset: 0.604 ms

Below is generated by plot.py at 2018-05-24 20:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 122.20 Mbit/s

95th percentile per-packet one-way delay: 19.251 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 62.93 Mbit/s

95th percentile per-packet one-way delay: 19.370 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 63.81 Mbit/s

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

Loss rate: 0.01%

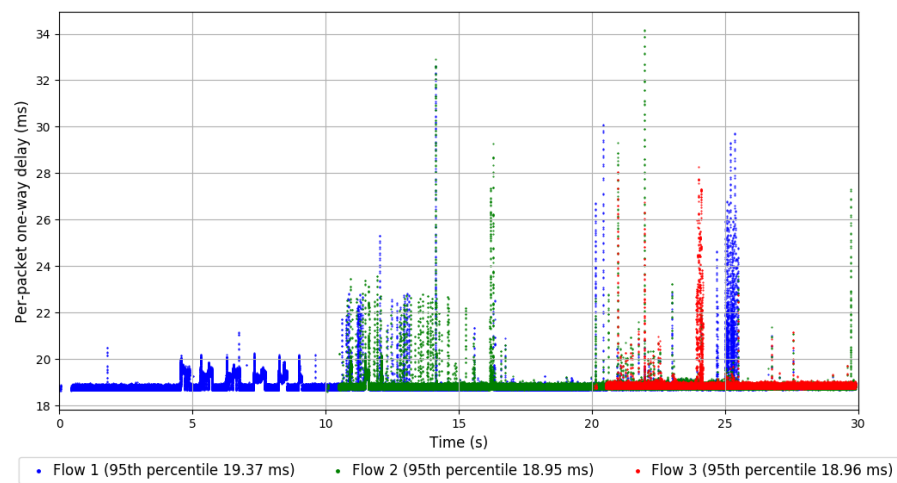
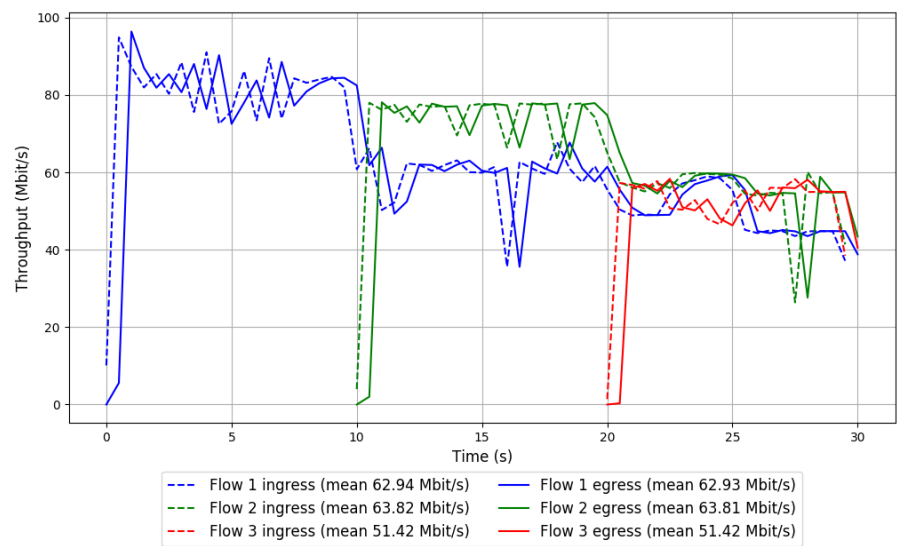
-- Flow 3:

Average throughput: 51.42 Mbit/s

95th percentile per-packet one-way delay: 18.961 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link

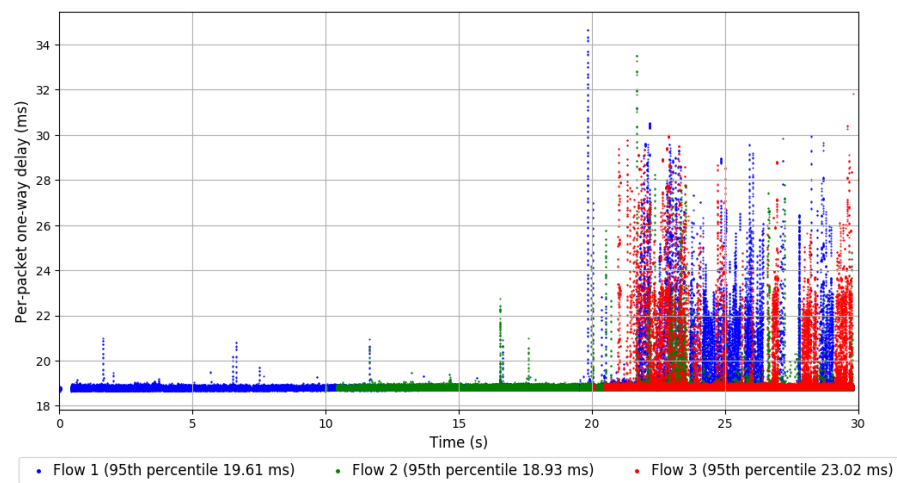
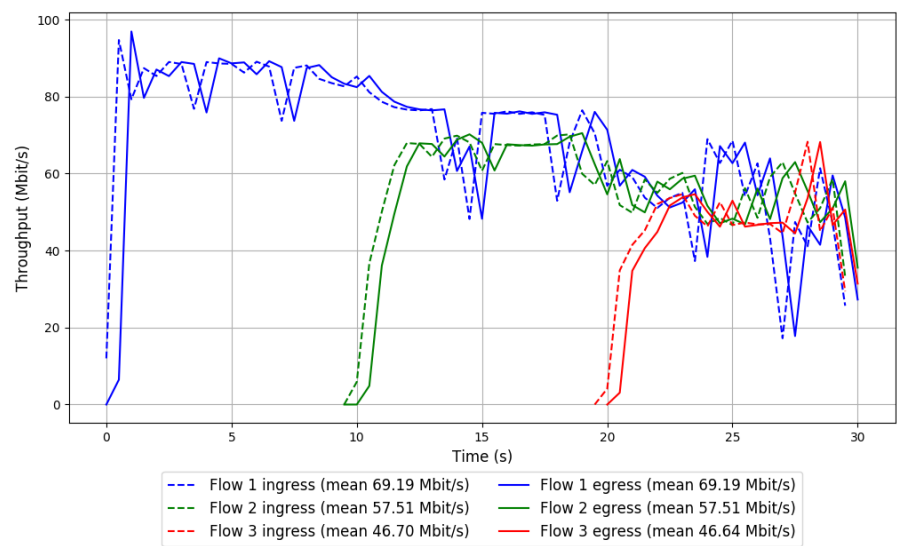


Run 5: Statistics of QUIC Cubic

Start at: 2018-05-24 15:55:25
End at: 2018-05-24 15:55:55
Local clock offset: 0.326 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2018-05-24 20:10:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 122.78 Mbit/s
95th percentile per-packet one-way delay: 19.981 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 69.19 Mbit/s
95th percentile per-packet one-way delay: 19.605 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 57.51 Mbit/s
95th percentile per-packet one-way delay: 18.932 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 46.64 Mbit/s
95th percentile per-packet one-way delay: 23.021 ms
Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

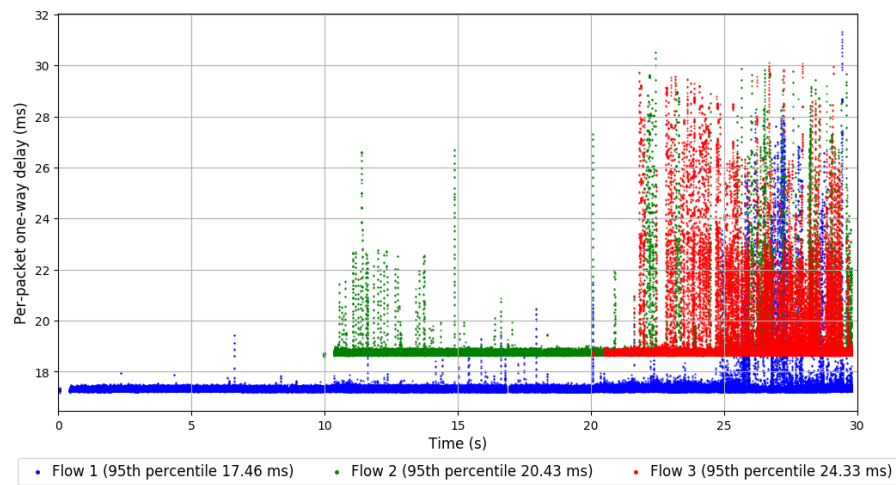
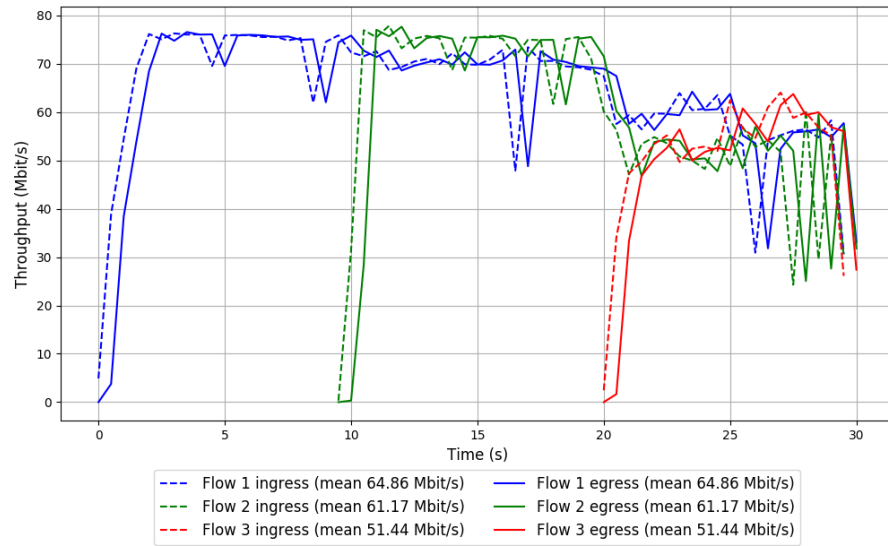


Run 6: Statistics of QUIC Cubic

Start at: 2018-05-24 16:21:30
End at: 2018-05-24 16:22:00
Local clock offset: 0.175 ms
Remote clock offset: -0.113 ms

Below is generated by plot.py at 2018-05-24 20:10:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 122.53 Mbit/s
95th percentile per-packet one-way delay: 20.700 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 64.86 Mbit/s
95th percentile per-packet one-way delay: 17.459 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 61.17 Mbit/s
95th percentile per-packet one-way delay: 20.430 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 51.44 Mbit/s
95th percentile per-packet one-way delay: 24.328 ms
Loss rate: 0.01%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-05-24 16:46:59

End at: 2018-05-24 16:47:29

Local clock offset: 0.197 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2018-05-24 20:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.17 Mbit/s

95th percentile per-packet one-way delay: 21.503 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 63.23 Mbit/s

95th percentile per-packet one-way delay: 20.354 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.09 Mbit/s

95th percentile per-packet one-way delay: 20.306 ms

Loss rate: 0.00%

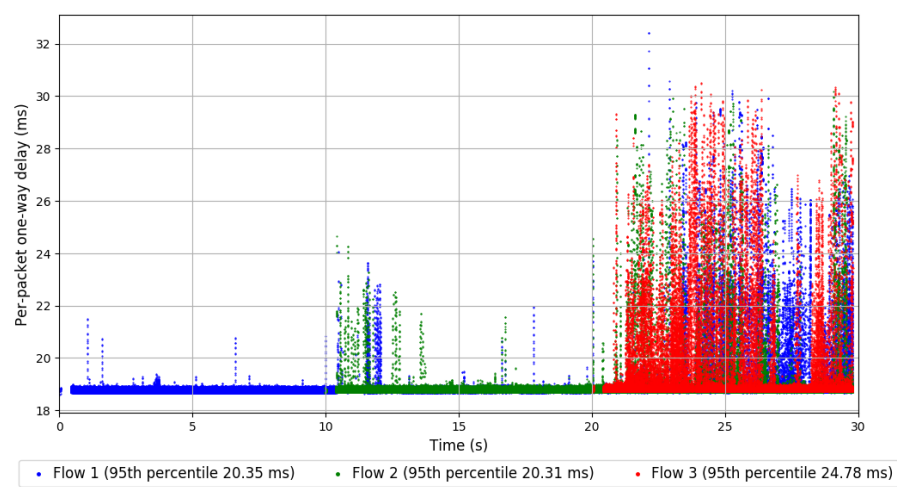
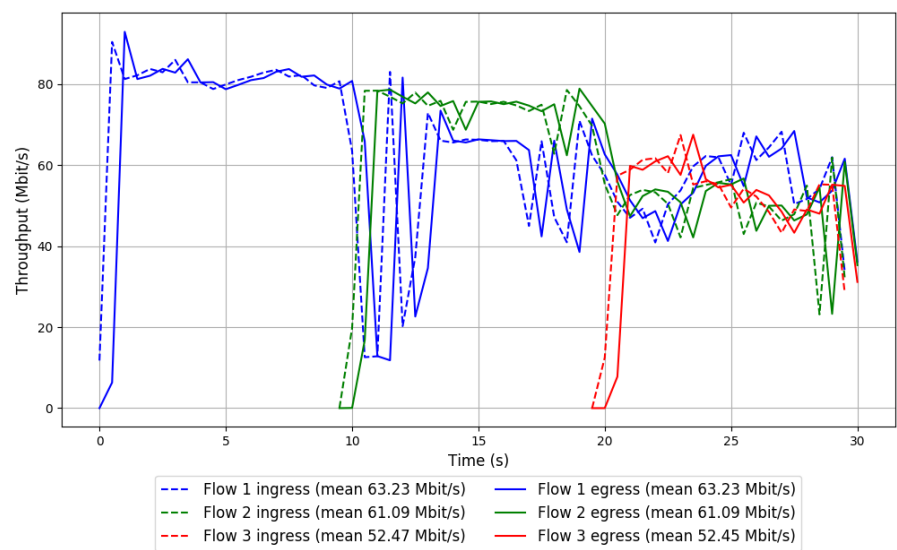
-- Flow 3:

Average throughput: 52.45 Mbit/s

95th percentile per-packet one-way delay: 24.779 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-05-24 17:12:47

End at: 2018-05-24 17:13:17

Local clock offset: 0.201 ms

Remote clock offset: 0.102 ms

Below is generated by plot.py at 2018-05-24 20:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.02 Mbit/s

95th percentile per-packet one-way delay: 21.361 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 66.38 Mbit/s

95th percentile per-packet one-way delay: 20.510 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.15 Mbit/s

95th percentile per-packet one-way delay: 22.025 ms

Loss rate: 0.00%

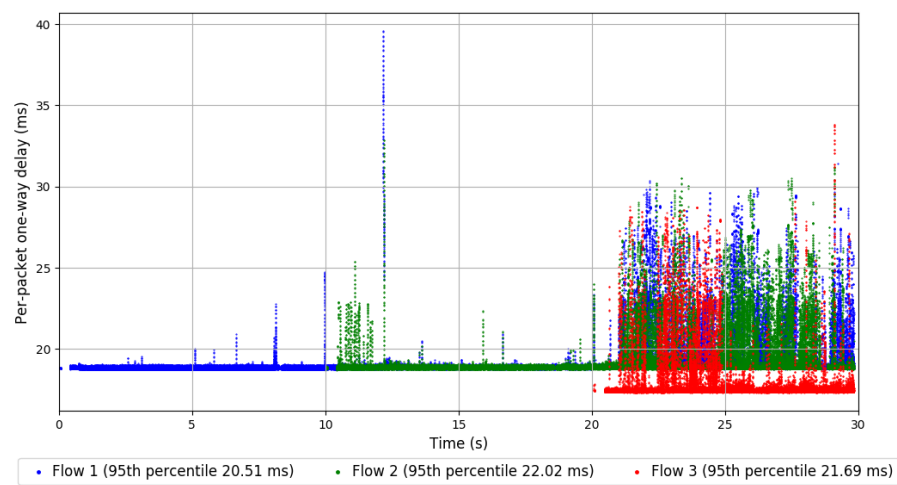
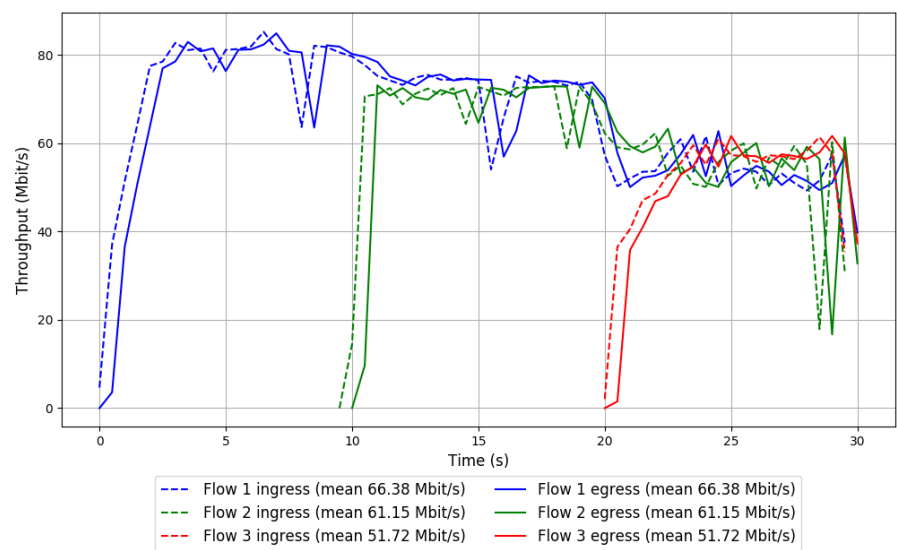
-- Flow 3:

Average throughput: 51.72 Mbit/s

95th percentile per-packet one-way delay: 21.693 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-05-24 17:38:39

End at: 2018-05-24 17:39:09

Local clock offset: 0.431 ms

Remote clock offset: 0.214 ms

Below is generated by plot.py at 2018-05-24 20:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.03 Mbit/s

95th percentile per-packet one-way delay: 20.960 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.95 Mbit/s

95th percentile per-packet one-way delay: 18.348 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.56 Mbit/s

95th percentile per-packet one-way delay: 20.759 ms

Loss rate: 0.00%

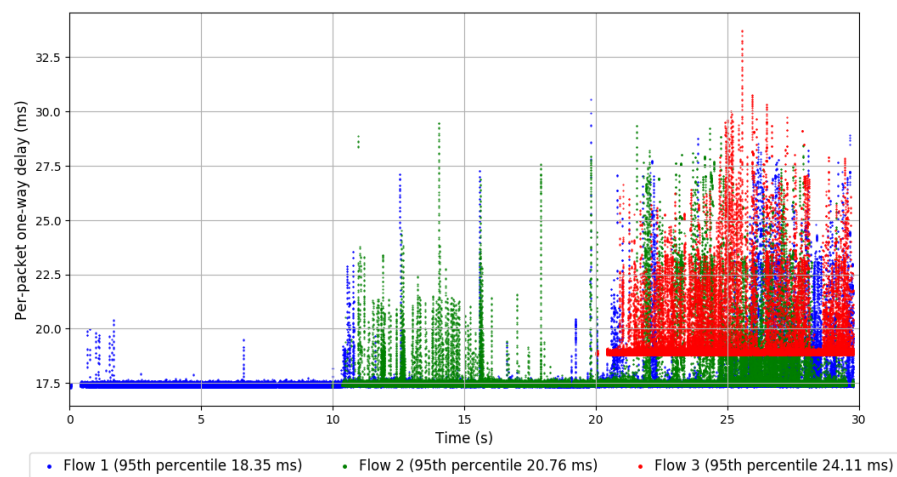
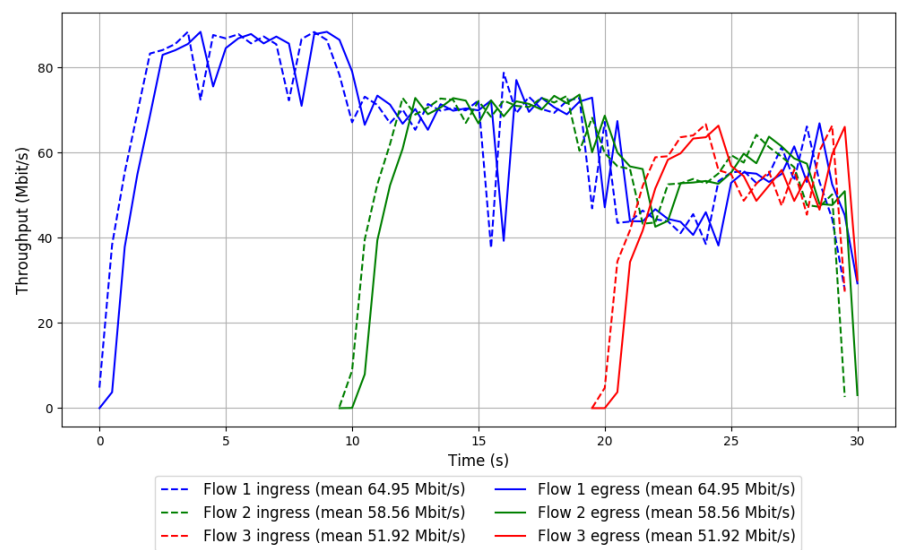
-- Flow 3:

Average throughput: 51.92 Mbit/s

95th percentile per-packet one-way delay: 24.106 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-05-24 18:04:17

End at: 2018-05-24 18:04:47

Local clock offset: 0.546 ms

Remote clock offset: 0.222 ms

Below is generated by plot.py at 2018-05-24 20:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 121.54 Mbit/s

95th percentile per-packet one-way delay: 20.153 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 66.44 Mbit/s

95th percentile per-packet one-way delay: 17.510 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.96 Mbit/s

95th percentile per-packet one-way delay: 21.635 ms

Loss rate: 0.01%

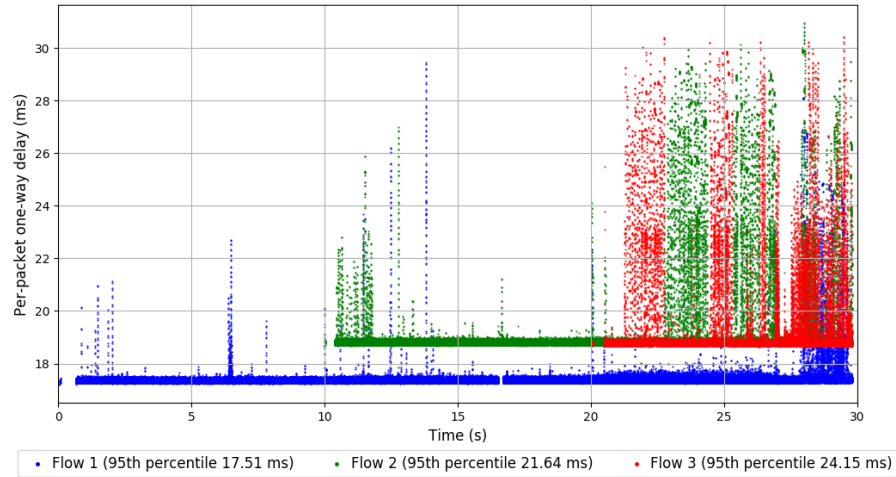
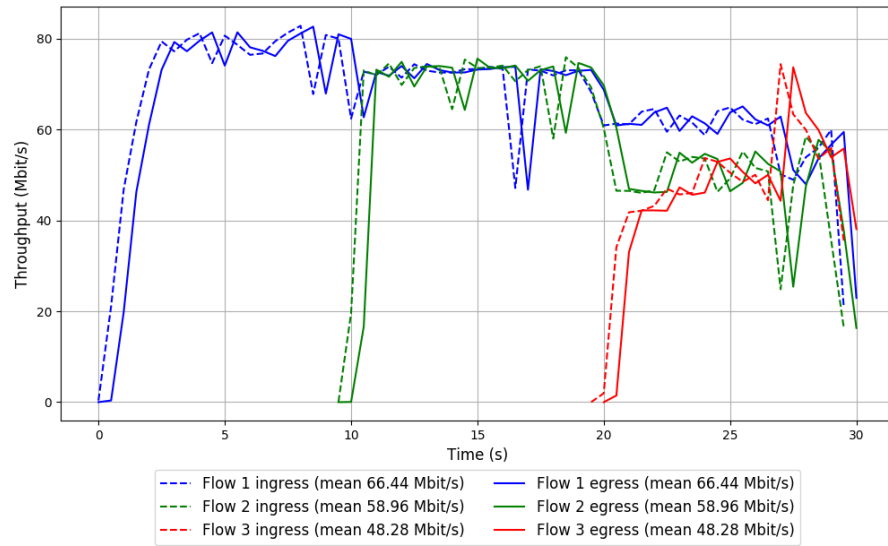
-- Flow 3:

Average throughput: 48.28 Mbit/s

95th percentile per-packet one-way delay: 24.153 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

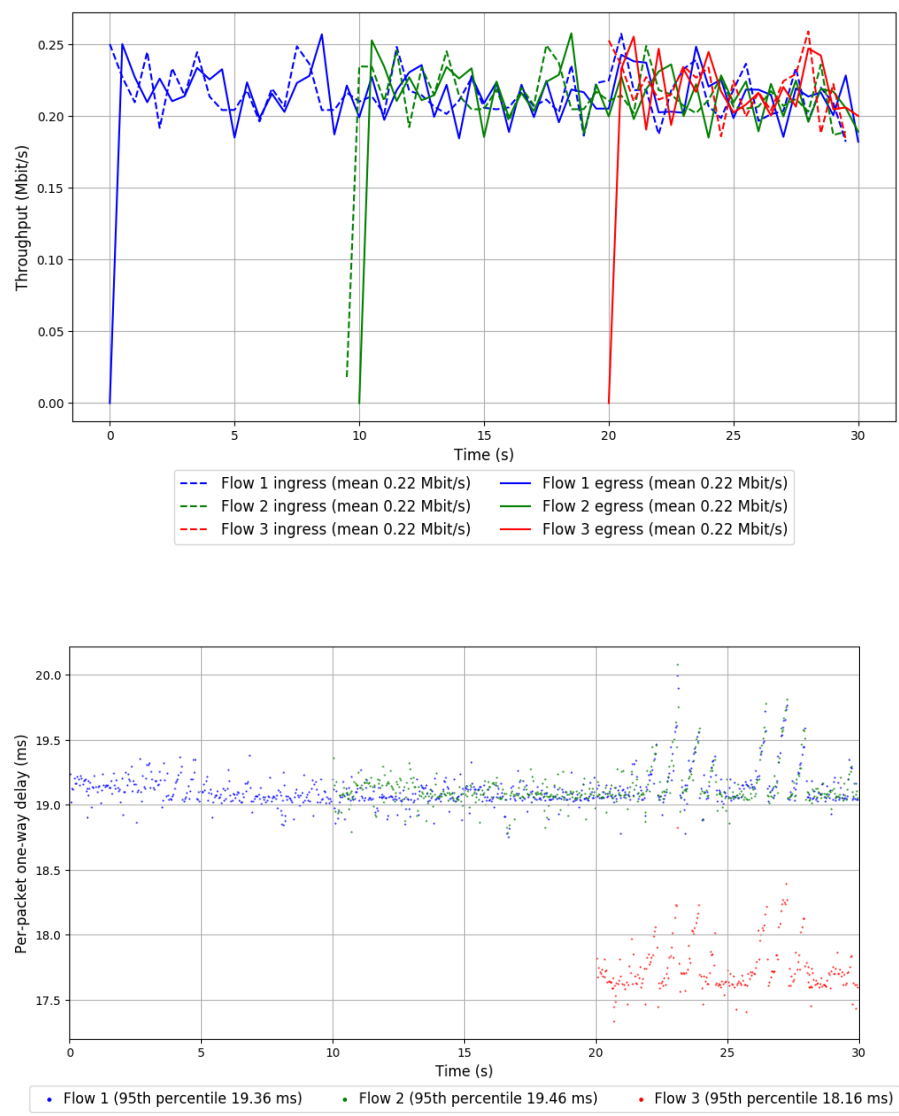


```
Run 1: Statistics of SReAM

Start at: 2018-05-24 14:16:15
End at: 2018-05-24 14:16:45
Local clock offset: 0.395 ms
Remote clock offset: 0.418 ms

# Below is generated by plot.py at 2018-05-24 20:10:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 19.349 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.357 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.459 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.159 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

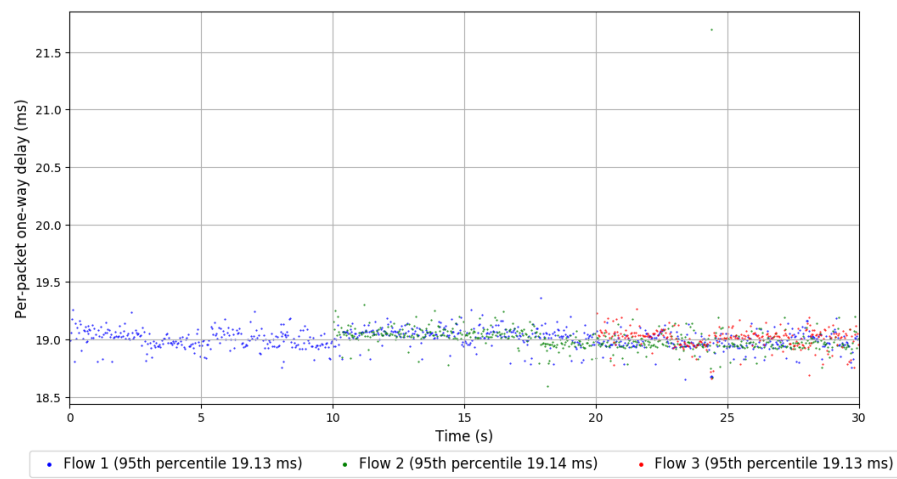
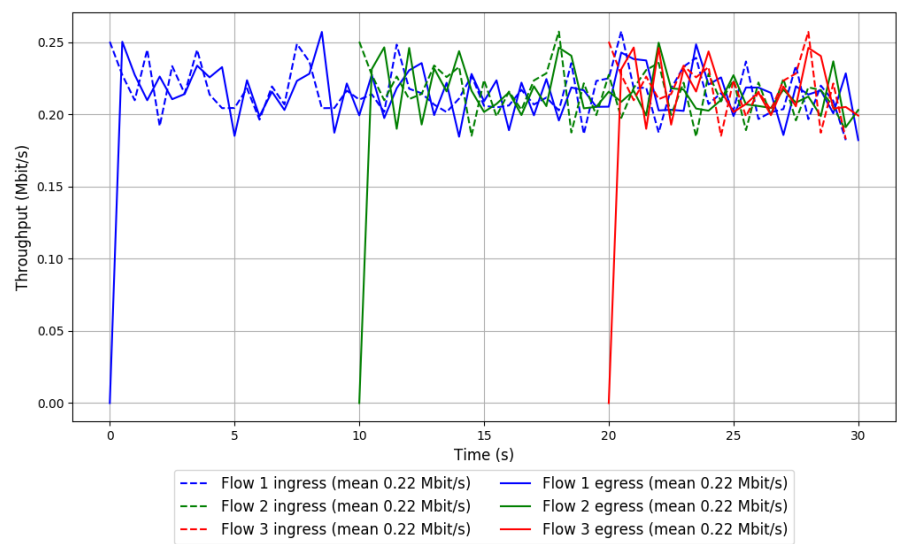


```
Run 2: Statistics of SReAM

Start at: 2018-05-24 14:42:22
End at: 2018-05-24 14:42:52
Local clock offset: 0.188 ms
Remote clock offset: 0.873 ms

# Below is generated by plot.py at 2018-05-24 20:10:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 19.137 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.133 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.140 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.128 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-05-24 15:08:13

End at: 2018-05-24 15:08:43

Local clock offset: 0.242 ms

Remote clock offset: 1.53 ms

Below is generated by plot.py at 2018-05-24 20:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.248 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.268 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.220 ms

Loss rate: 0.00%

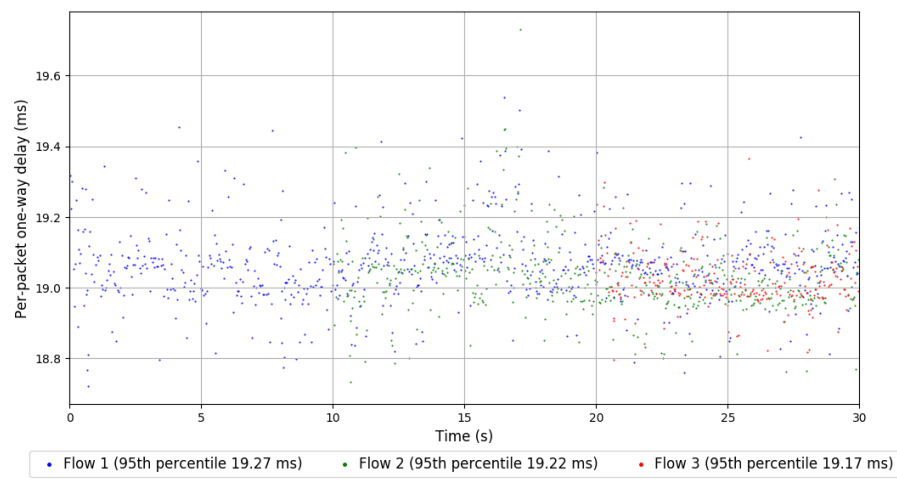
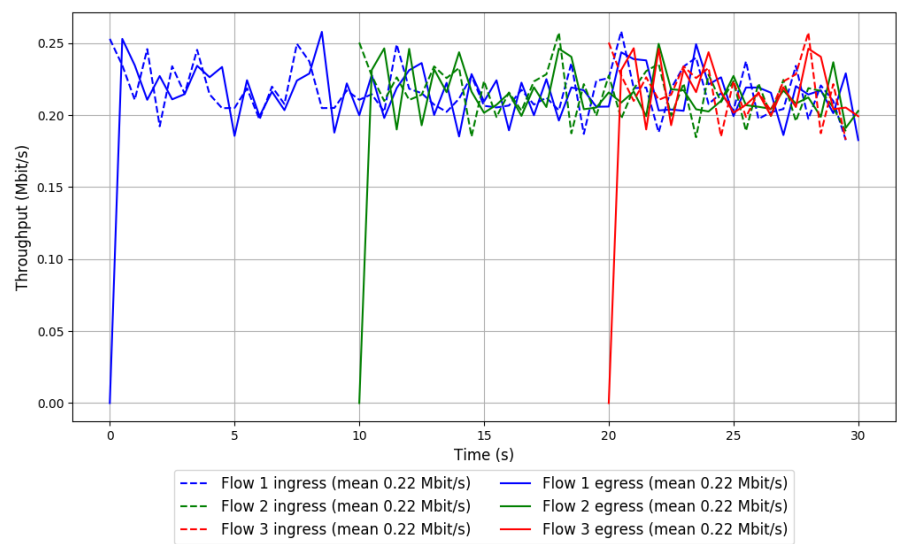
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.169 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-05-24 15:34:03

End at: 2018-05-24 15:34:33

Local clock offset: 0.309 ms

Remote clock offset: 0.581 ms

Below is generated by plot.py at 2018-05-24 20:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 19.248 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.248 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.260 ms

Loss rate: 0.00%

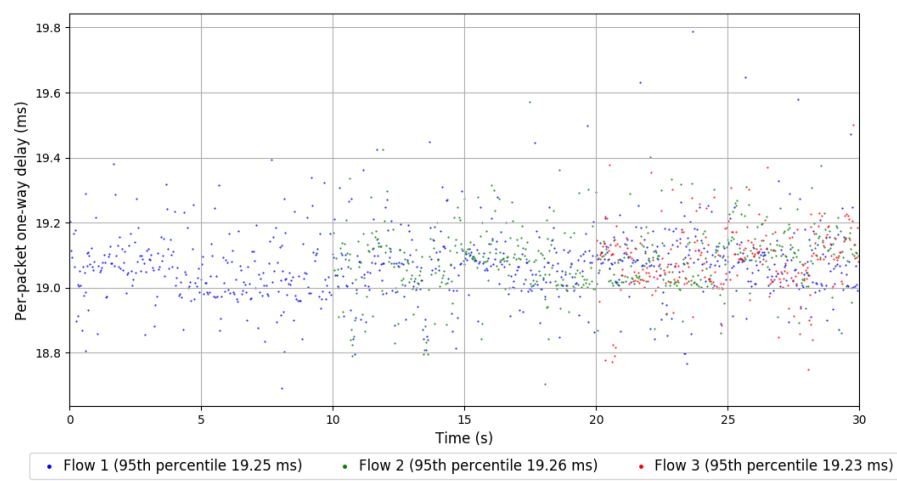
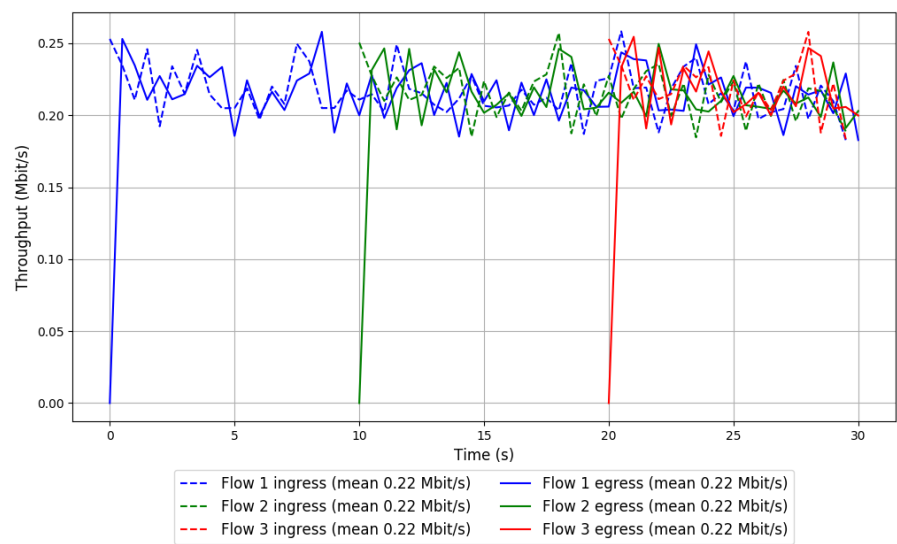
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.229 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

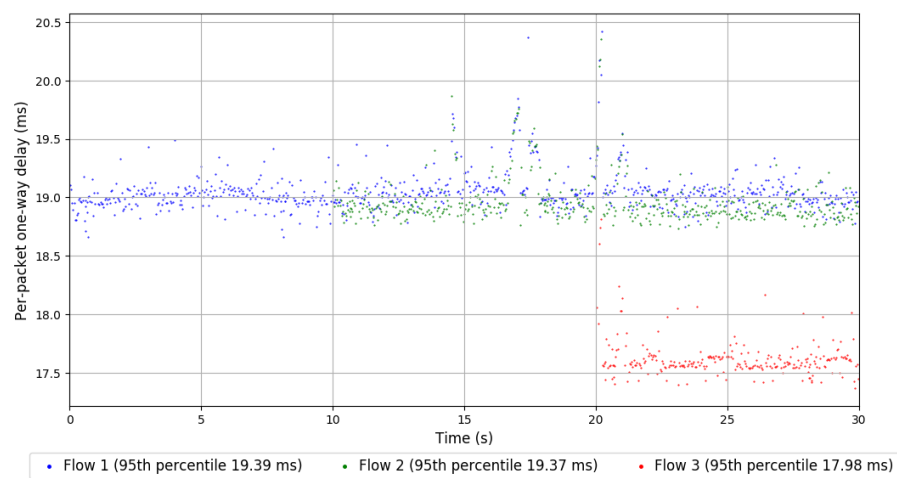
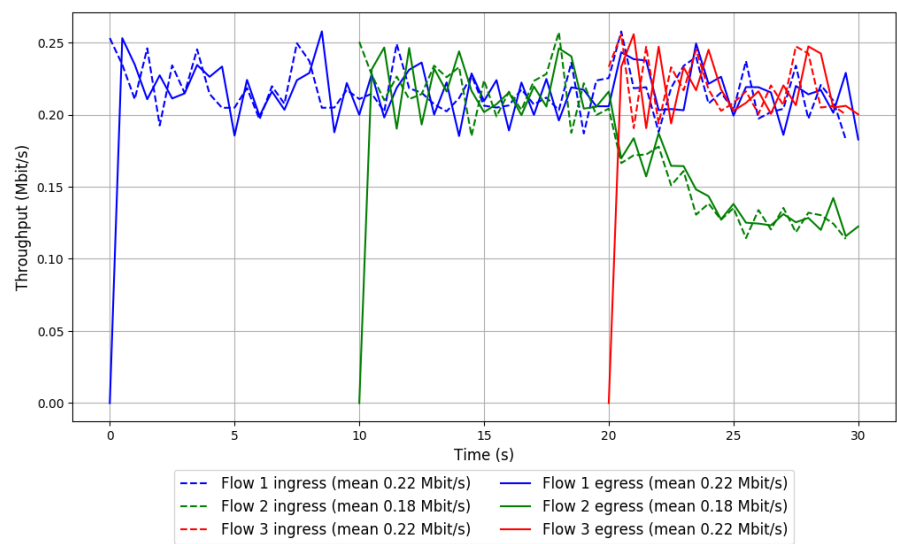


Run 5: Statistics of SCReAM

Start at: 2018-05-24 15:59:48
End at: 2018-05-24 16:00:18
Local clock offset: 0.392 ms
Remote clock offset: -0.039 ms

Below is generated by plot.py at 2018-05-24 20:10:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 19.338 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.385 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 19.367 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.981 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

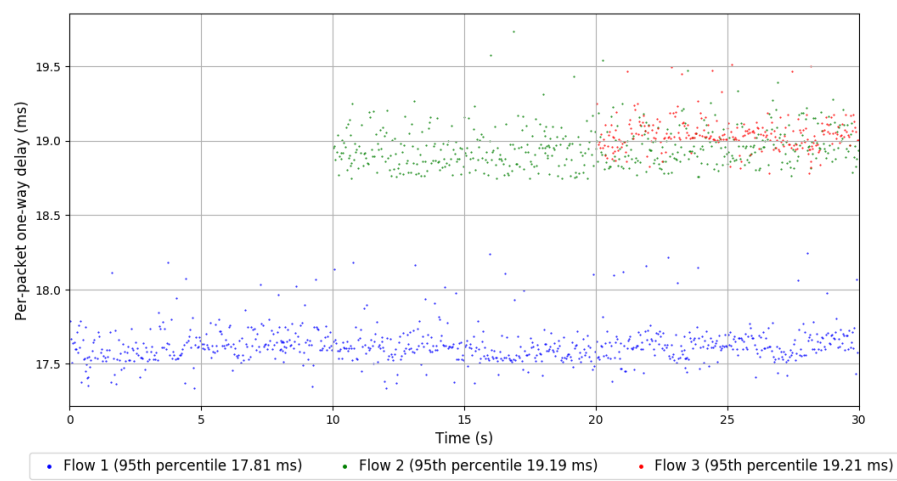
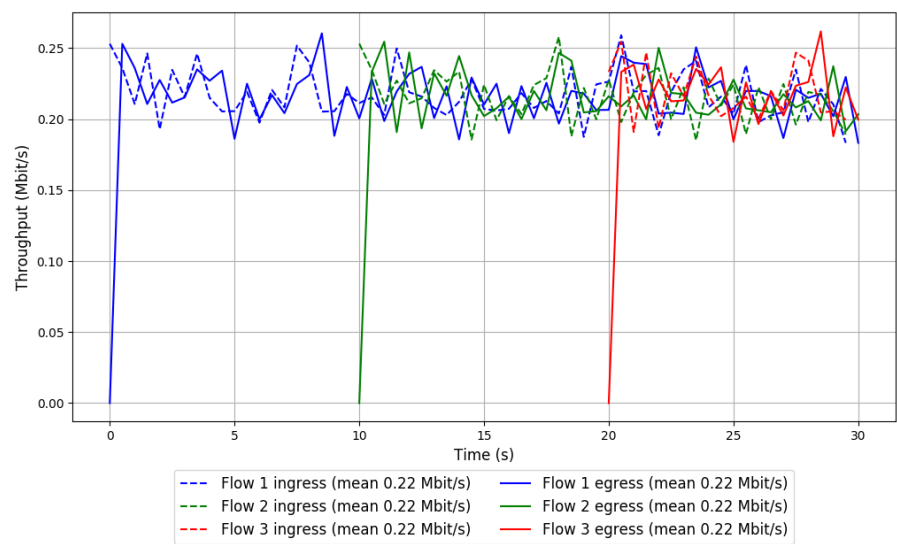


Run 6: Statistics of SReAM

Start at: 2018-05-24 16:25:50
End at: 2018-05-24 16:26:20
Local clock offset: 0.14 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-05-24 20:10:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 19.153 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.806 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.188 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.210 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

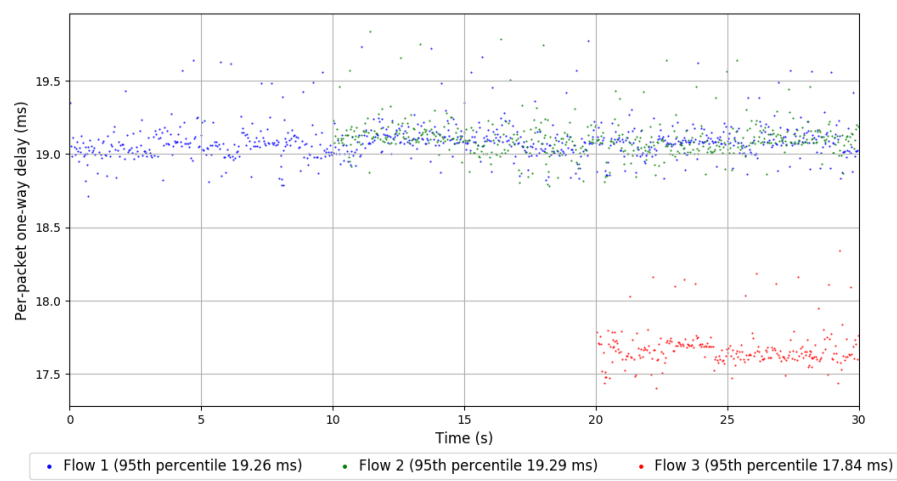
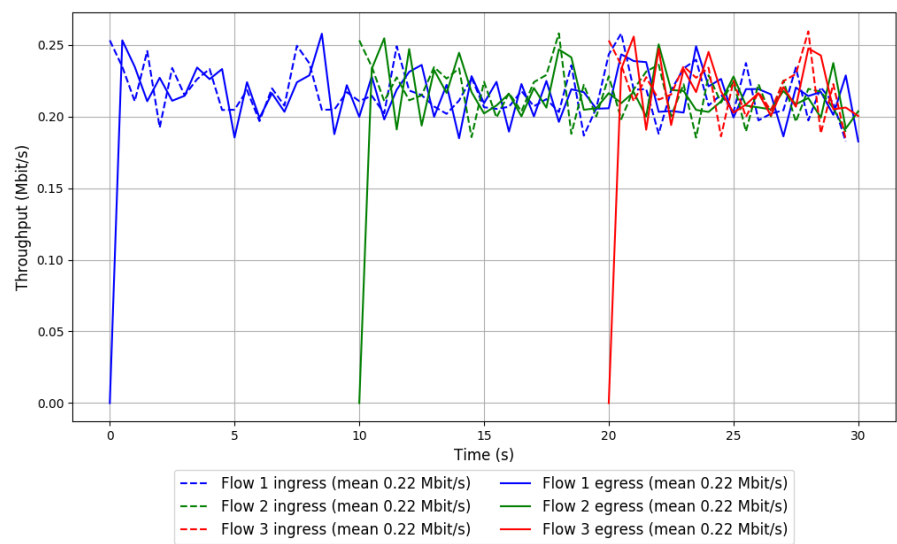


Run 7: Statistics of SReAM

Start at: 2018-05-24 16:51:24
End at: 2018-05-24 16:51:54
Local clock offset: 0.108 ms
Remote clock offset: -0.102 ms

Below is generated by plot.py at 2018-05-24 20:10:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 19.245 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.260 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.287 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.835 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-05-24 17:17:08

End at: 2018-05-24 17:17:38

Local clock offset: 0.287 ms

Remote clock offset: 0.058 ms

Below is generated by plot.py at 2018-05-24 20:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.36 Mbit/s

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

Loss rate: 0.09%

-- Flow 1:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 18.039 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.237 ms

Loss rate: 0.00%

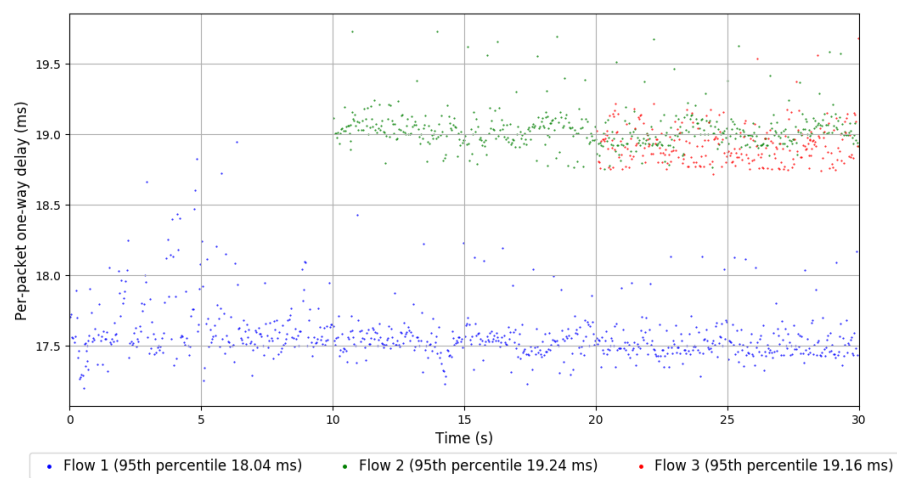
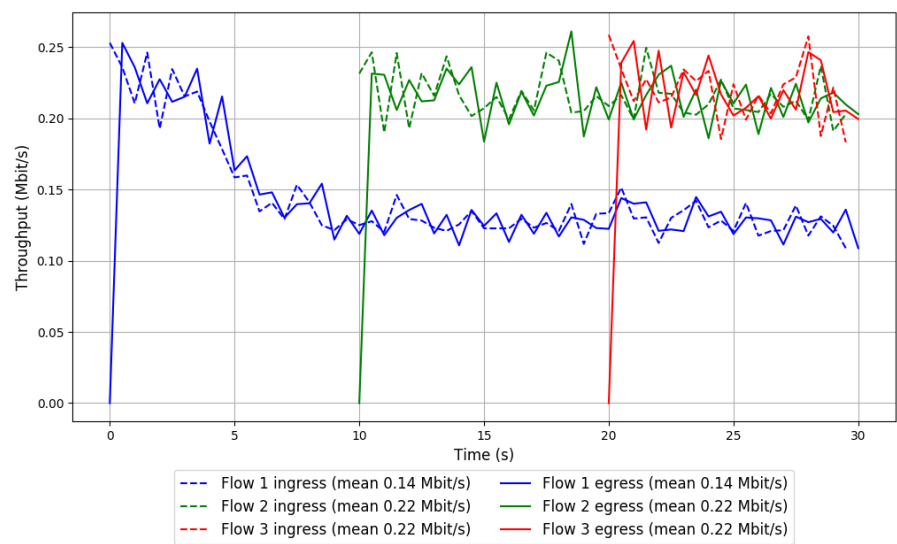
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.155 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-05-24 17:42:55

End at: 2018-05-24 17:43:25

Local clock offset: 0.556 ms

Remote clock offset: 0.254 ms

Below is generated by plot.py at 2018-05-24 20:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.331 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.301 ms

Loss rate: 0.00%

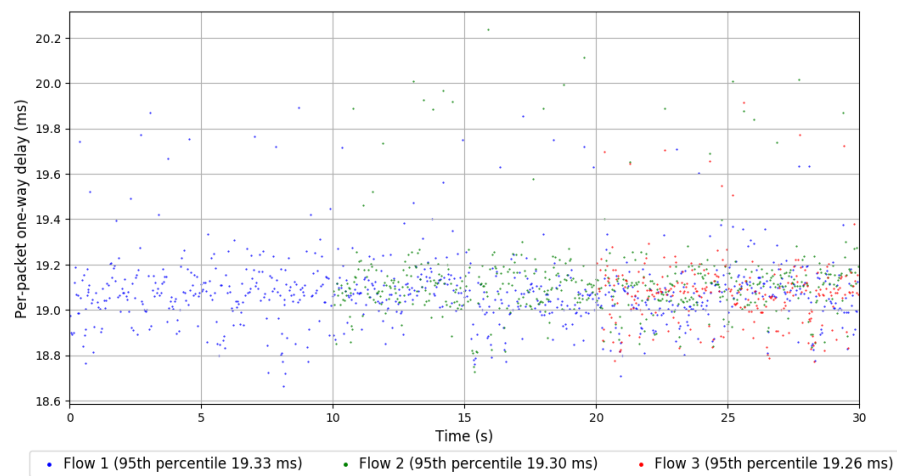
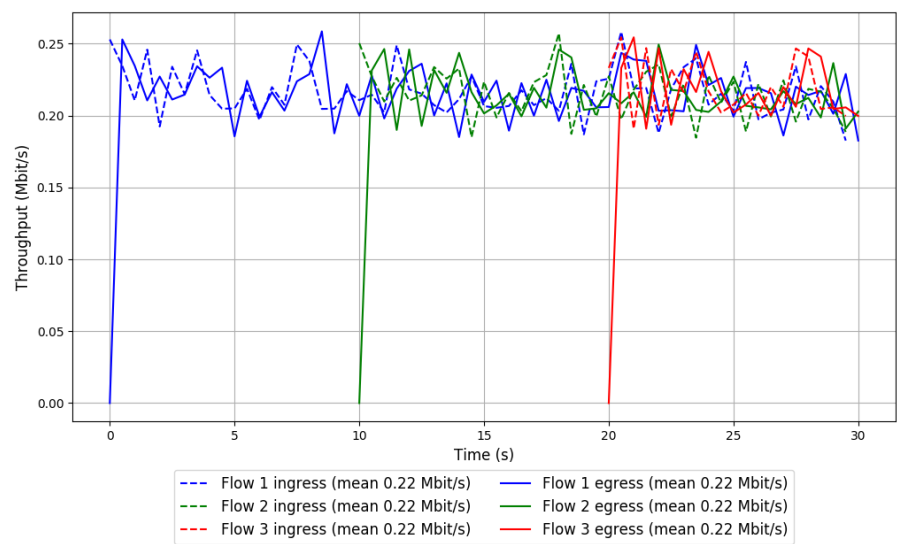
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-05-24 18:08:41

End at: 2018-05-24 18:09:11

Local clock offset: 0.464 ms

Remote clock offset: 0.169 ms

Below is generated by plot.py at 2018-05-24 20:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.390 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.270 ms

Loss rate: 0.00%

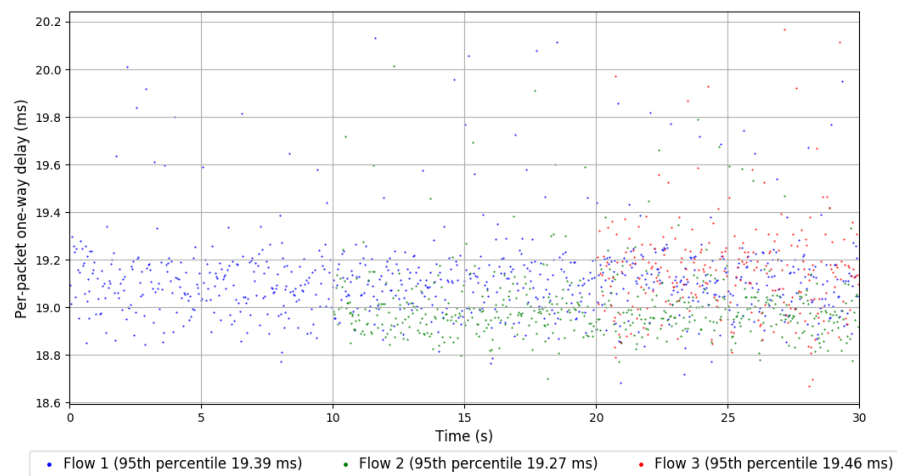
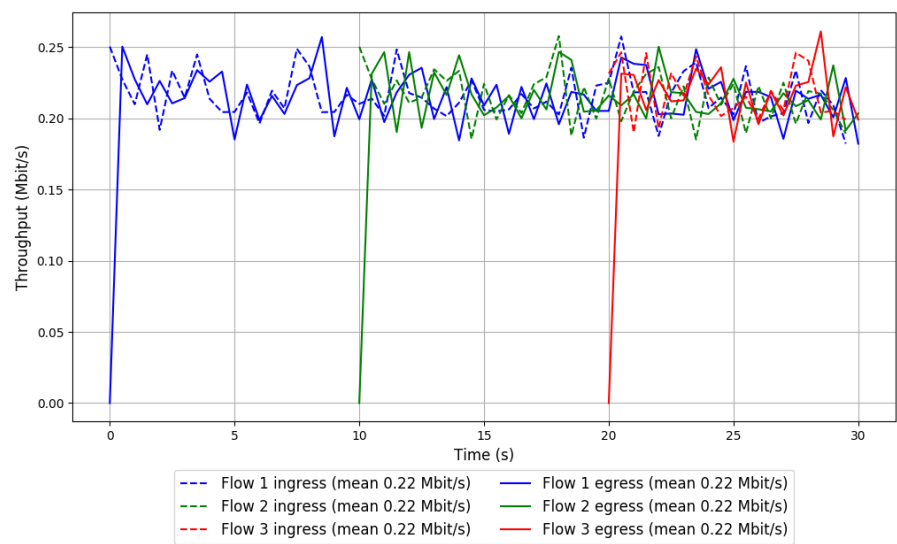
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.463 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-05-24 14:14:55

End at: 2018-05-24 14:15:25

Local clock offset: 0.468 ms

Remote clock offset: 0.412 ms

Below is generated by plot.py at 2018-05-24 20:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.10 Mbit/s

95th percentile per-packet one-way delay: 21.195 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 20.43 Mbit/s

95th percentile per-packet one-way delay: 21.243 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.35 Mbit/s

95th percentile per-packet one-way delay: 21.367 ms

Loss rate: 0.00%

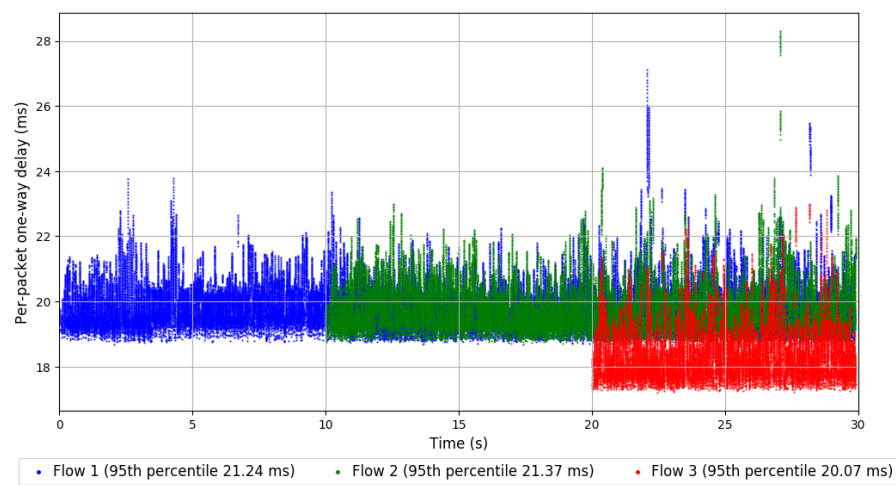
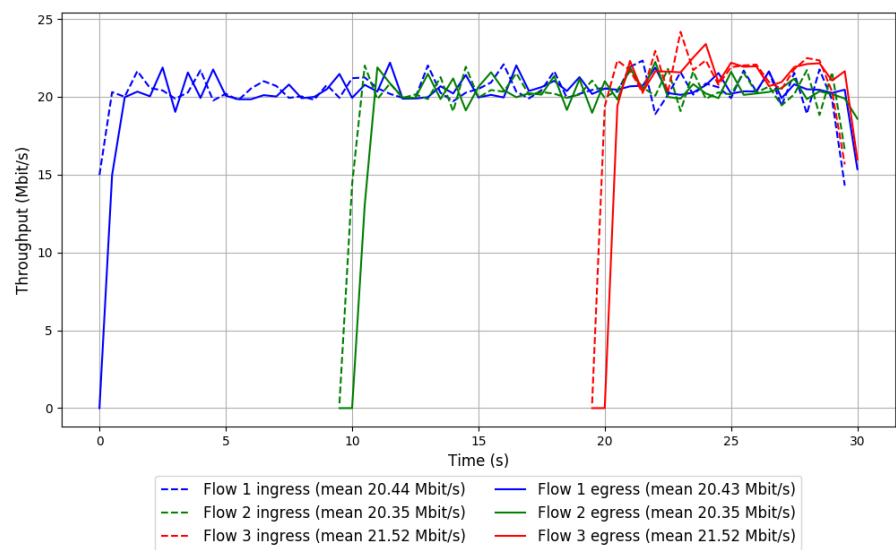
-- Flow 3:

Average throughput: 21.52 Mbit/s

95th percentile per-packet one-way delay: 20.067 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-05-24 14:41:02

End at: 2018-05-24 14:41:32

Local clock offset: 0.279 ms

Remote clock offset: 0.862 ms

Below is generated by plot.py at 2018-05-24 20:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.91 Mbit/s

95th percentile per-packet one-way delay: 21.302 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 20.56 Mbit/s

95th percentile per-packet one-way delay: 21.419 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.51 Mbit/s

95th percentile per-packet one-way delay: 21.218 ms

Loss rate: 0.00%

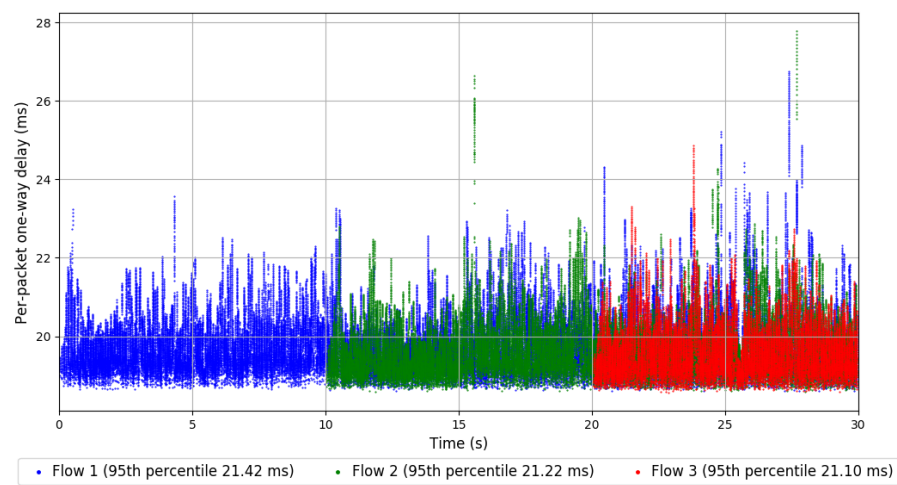
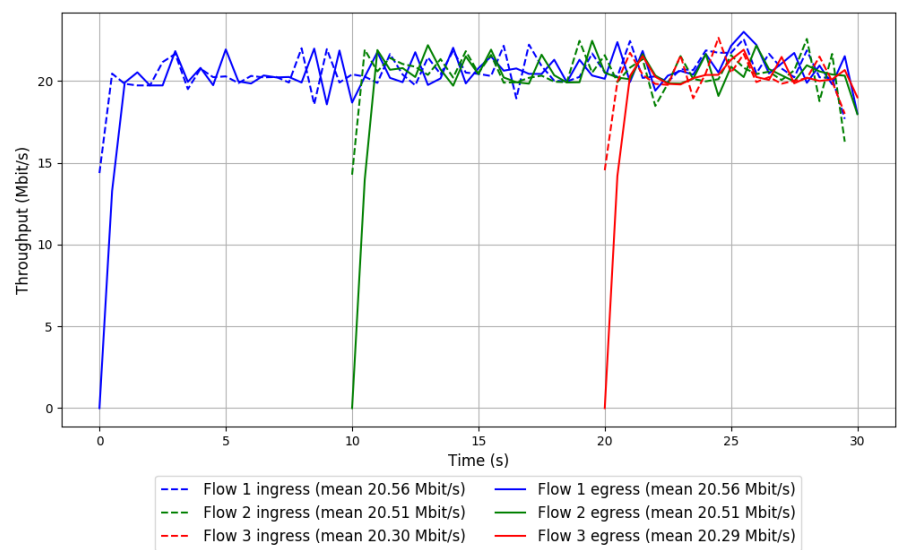
-- Flow 3:

Average throughput: 20.29 Mbit/s

95th percentile per-packet one-way delay: 21.102 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-05-24 15:06:52

End at: 2018-05-24 15:07:22

Local clock offset: 0.134 ms

Remote clock offset: 1.438 ms

Below is generated by plot.py at 2018-05-24 20:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 41.52 Mbit/s

95th percentile per-packet one-way delay: 21.609 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 21.12 Mbit/s

95th percentile per-packet one-way delay: 20.361 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.68 Mbit/s

95th percentile per-packet one-way delay: 22.187 ms

Loss rate: 0.00%

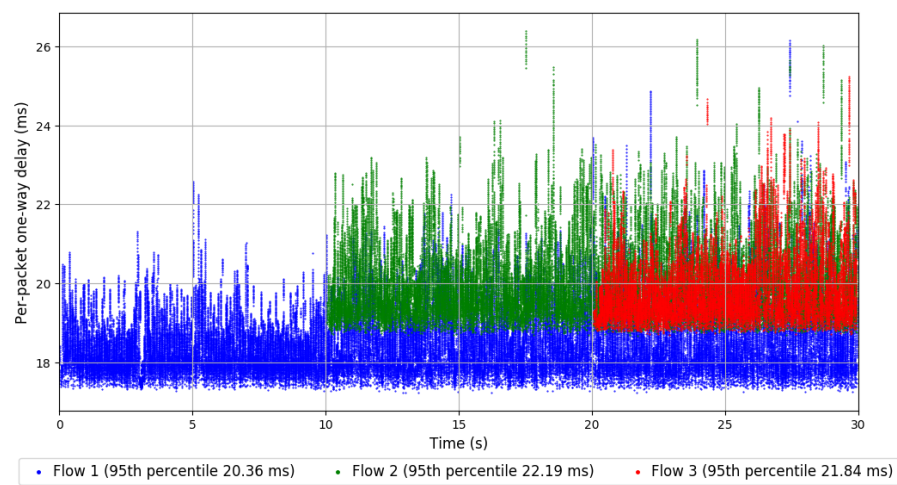
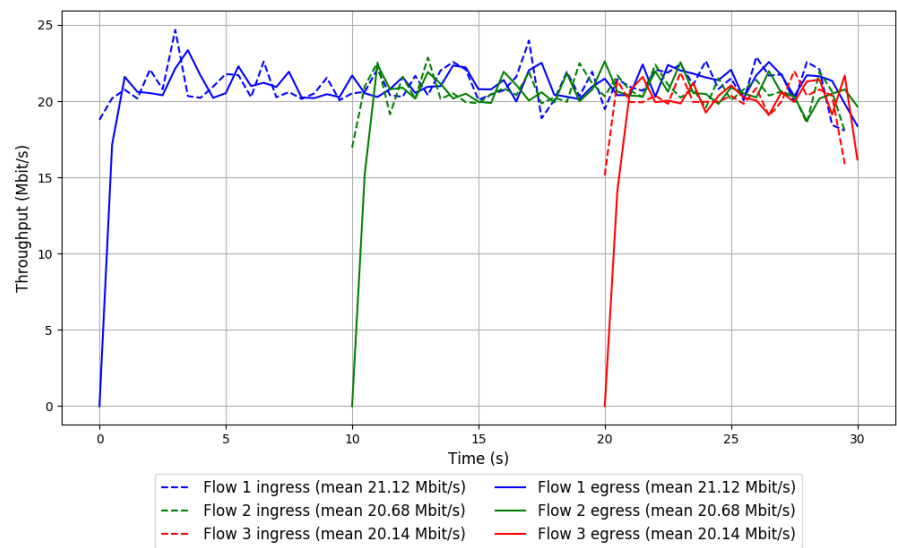
-- Flow 3:

Average throughput: 20.14 Mbit/s

95th percentile per-packet one-way delay: 21.842 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-05-24 15:32:42

End at: 2018-05-24 15:33:12

Local clock offset: 0.292 ms

Remote clock offset: 0.565 ms

Below is generated by plot.py at 2018-05-24 20:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.88 Mbit/s

95th percentile per-packet one-way delay: 21.593 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 20.36 Mbit/s

95th percentile per-packet one-way delay: 21.633 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.35 Mbit/s

95th percentile per-packet one-way delay: 21.840 ms

Loss rate: 0.00%

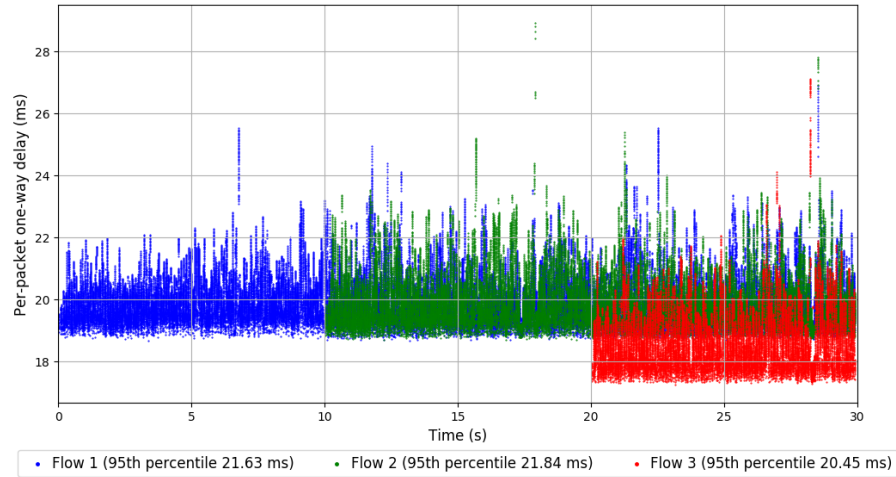
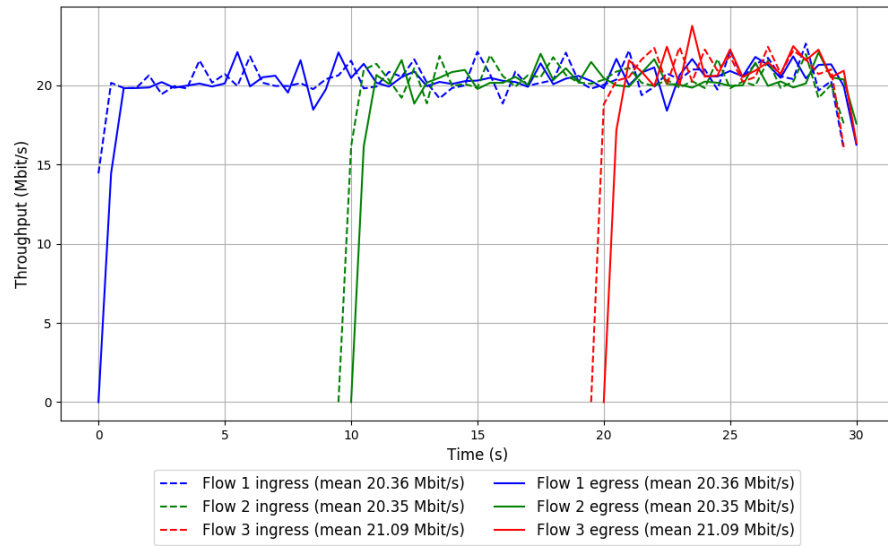
-- Flow 3:

Average throughput: 21.09 Mbit/s

95th percentile per-packet one-way delay: 20.446 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

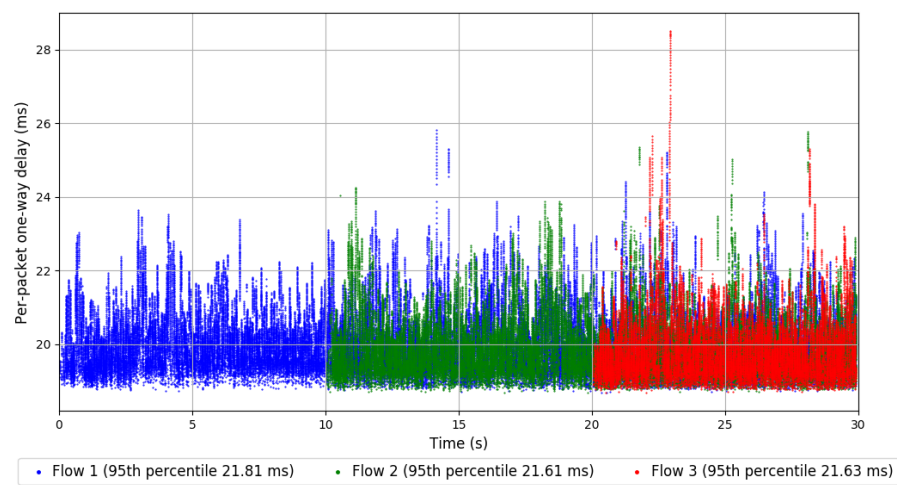
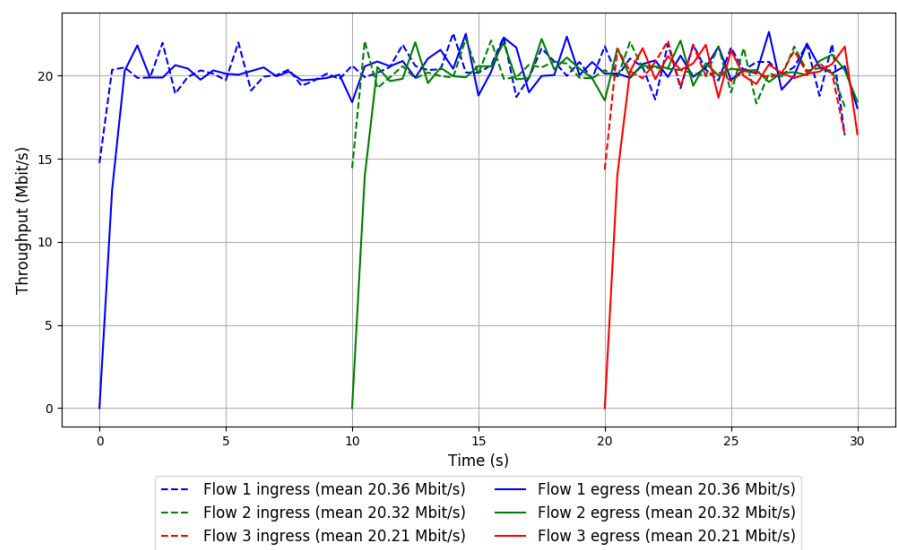


Run 5: Statistics of Sprout

Start at: 2018-05-24 15:58:28
End at: 2018-05-24 15:58:58
Local clock offset: 0.33 ms
Remote clock offset: -0.072 ms

```
# Below is generated by plot.py at 2018-05-24 20:10:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.55 Mbit/s
95th percentile per-packet one-way delay: 21.726 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.36 Mbit/s
95th percentile per-packet one-way delay: 21.814 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.32 Mbit/s
95th percentile per-packet one-way delay: 21.612 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.21 Mbit/s
95th percentile per-packet one-way delay: 21.629 ms
Loss rate: 0.00%
```


Run 5: Report of Sprout — Data Link

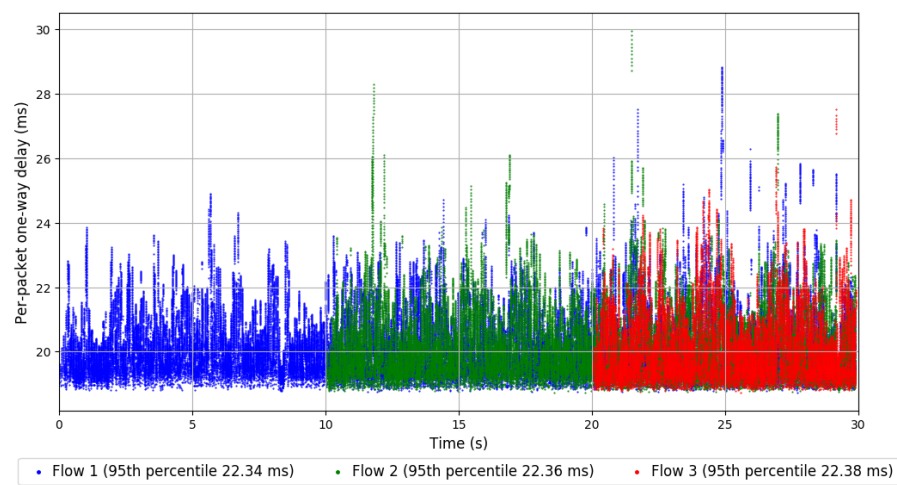
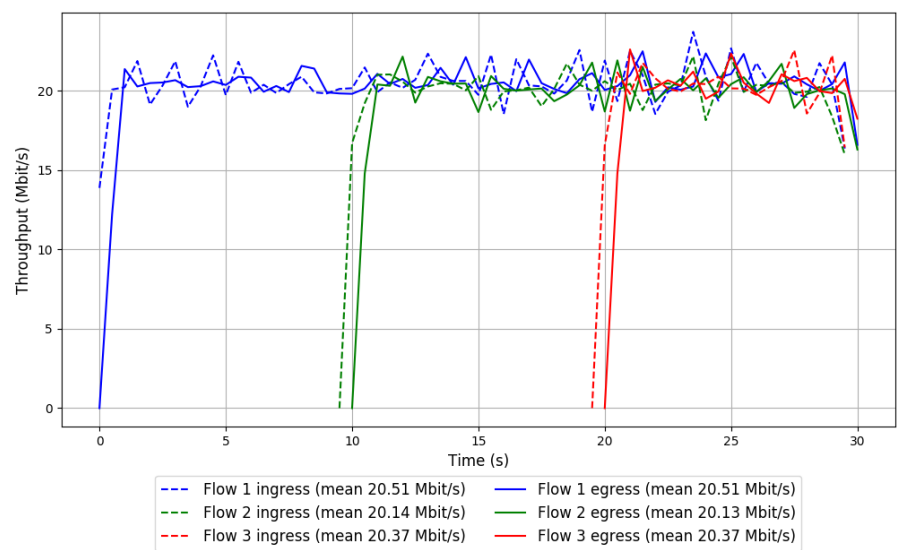


Run 6: Statistics of Sprout

Start at: 2018-05-24 16:24:30
End at: 2018-05-24 16:25:00
Local clock offset: 0.045 ms
Remote clock offset: -0.091 ms

```
# Below is generated by plot.py at 2018-05-24 20:10:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.64 Mbit/s
95th percentile per-packet one-way delay: 22.350 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.51 Mbit/s
95th percentile per-packet one-way delay: 22.337 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.13 Mbit/s
95th percentile per-packet one-way delay: 22.361 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.37 Mbit/s
95th percentile per-packet one-way delay: 22.377 ms
Loss rate: 0.00%
```

Run 6: Report of Sprout — Data Link

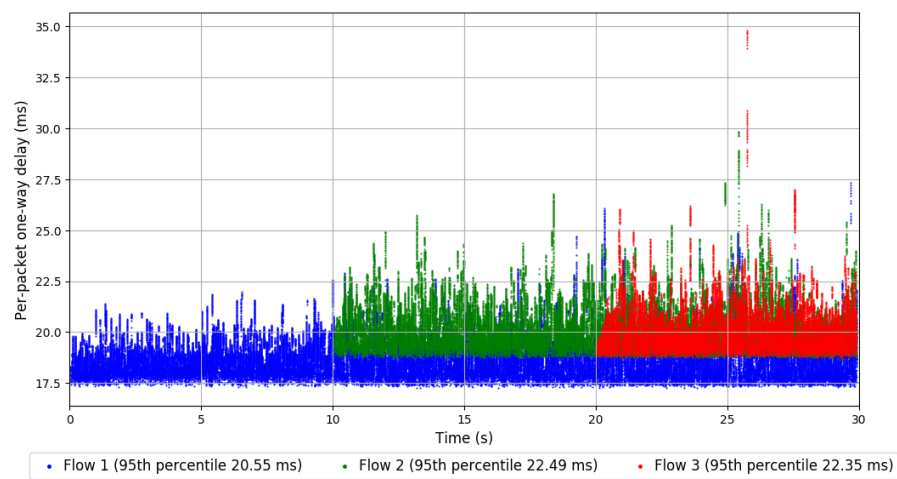
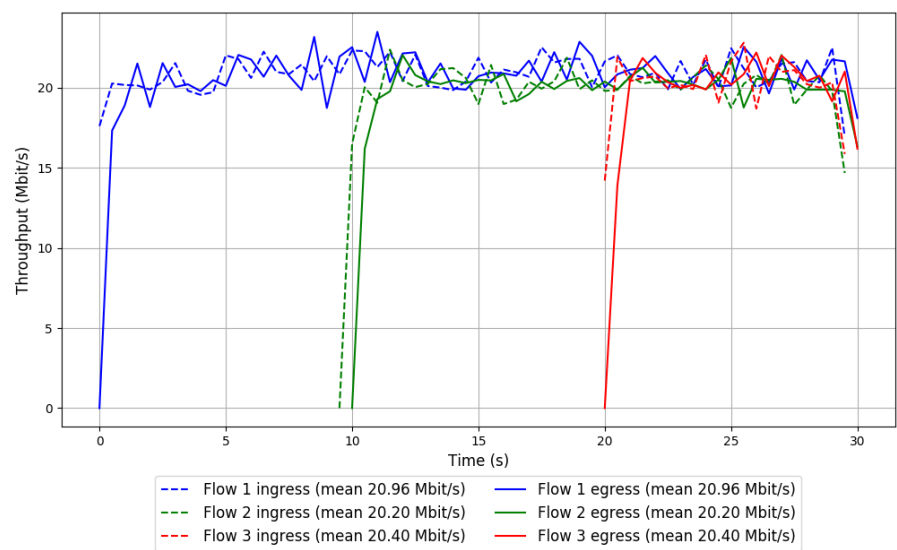


Run 7: Statistics of Sprout

Start at: 2018-05-24 16:50:03
End at: 2018-05-24 16:50:33
Local clock offset: 0.121 ms
Remote clock offset: -0.097 ms

Below is generated by plot.py at 2018-05-24 20:10:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.13 Mbit/s
95th percentile per-packet one-way delay: 21.873 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.96 Mbit/s
95th percentile per-packet one-way delay: 20.552 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 20.20 Mbit/s
95th percentile per-packet one-way delay: 22.487 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.40 Mbit/s
95th percentile per-packet one-way delay: 22.354 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-05-24 17:15:48

End at: 2018-05-24 17:16:18

Local clock offset: 0.208 ms

Remote clock offset: 0.117 ms

Below is generated by plot.py at 2018-05-24 20:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.15 Mbit/s

95th percentile per-packet one-way delay: 22.495 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 20.16 Mbit/s

95th percentile per-packet one-way delay: 22.407 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 20.12 Mbit/s

95th percentile per-packet one-way delay: 22.503 ms

Loss rate: 0.18%

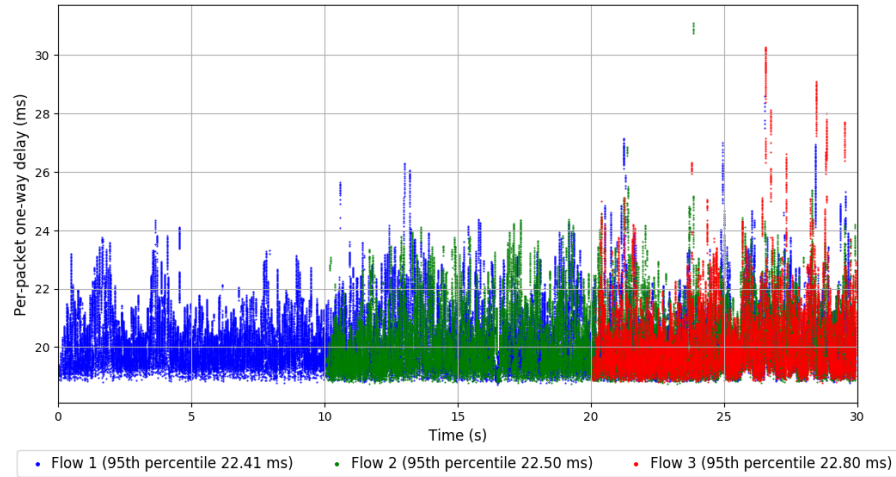
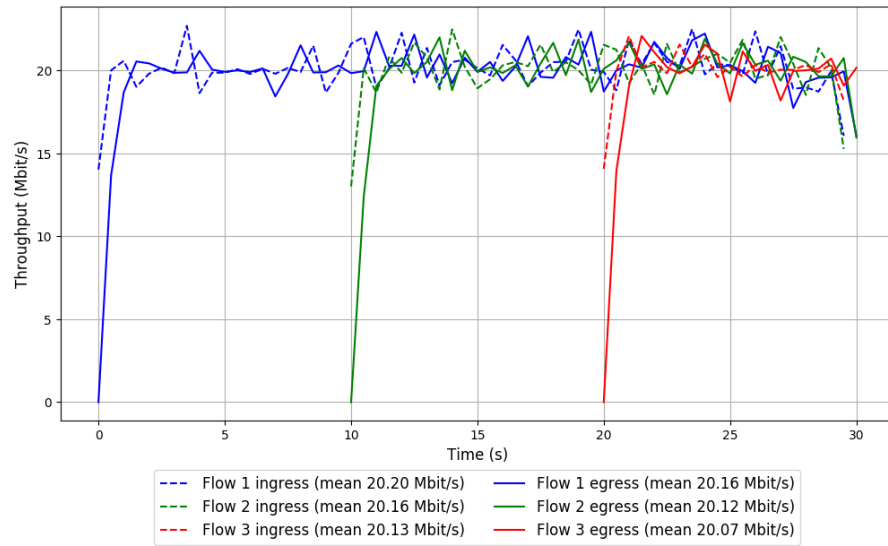
-- Flow 3:

Average throughput: 20.07 Mbit/s

95th percentile per-packet one-way delay: 22.800 ms

Loss rate: 0.28%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-05-24 17:41:35

End at: 2018-05-24 17:42:05

Local clock offset: 0.534 ms

Remote clock offset: 0.239 ms

Below is generated by plot.py at 2018-05-24 20:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.45 Mbit/s

95th percentile per-packet one-way delay: 23.082 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 20.27 Mbit/s

95th percentile per-packet one-way delay: 23.170 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 20.27 Mbit/s

95th percentile per-packet one-way delay: 23.116 ms

Loss rate: 0.29%

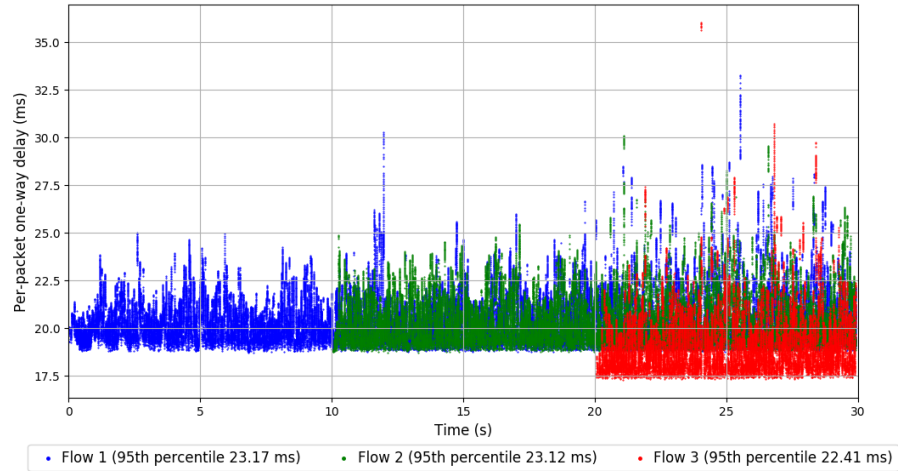
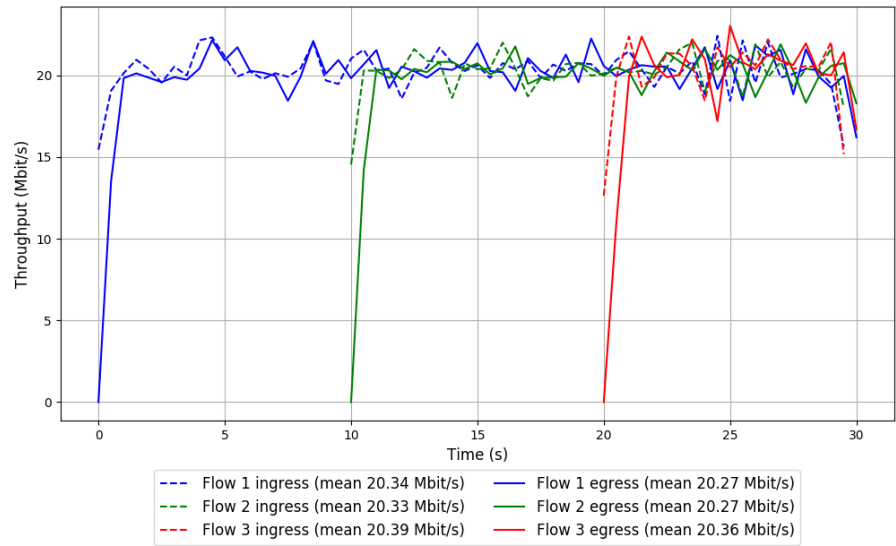
-- Flow 3:

Average throughput: 20.36 Mbit/s

95th percentile per-packet one-way delay: 22.410 ms

Loss rate: 0.11%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-05-24 18:07:20

End at: 2018-05-24 18:07:50

Local clock offset: 0.471 ms

Remote clock offset: 0.133 ms

Below is generated by plot.py at 2018-05-24 20:10:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.44 Mbit/s

95th percentile per-packet one-way delay: 22.963 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 20.30 Mbit/s

95th percentile per-packet one-way delay: 22.775 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.29 Mbit/s

95th percentile per-packet one-way delay: 22.853 ms

Loss rate: 0.00%

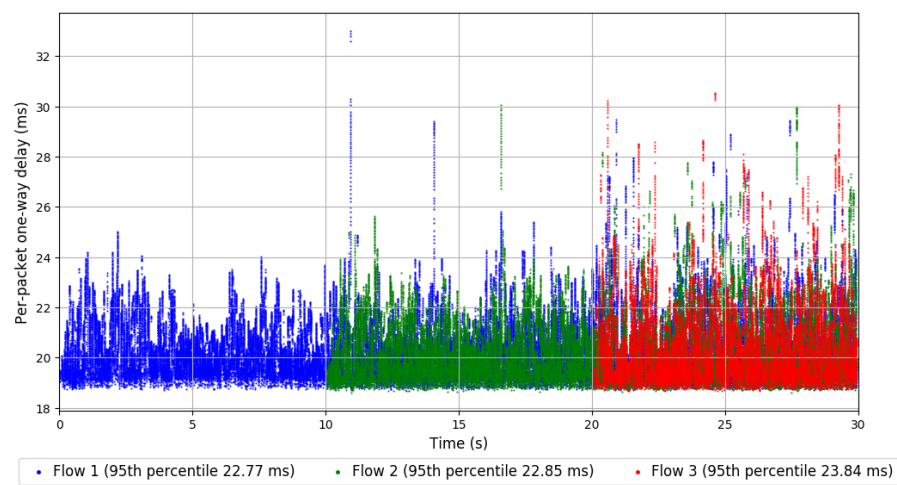
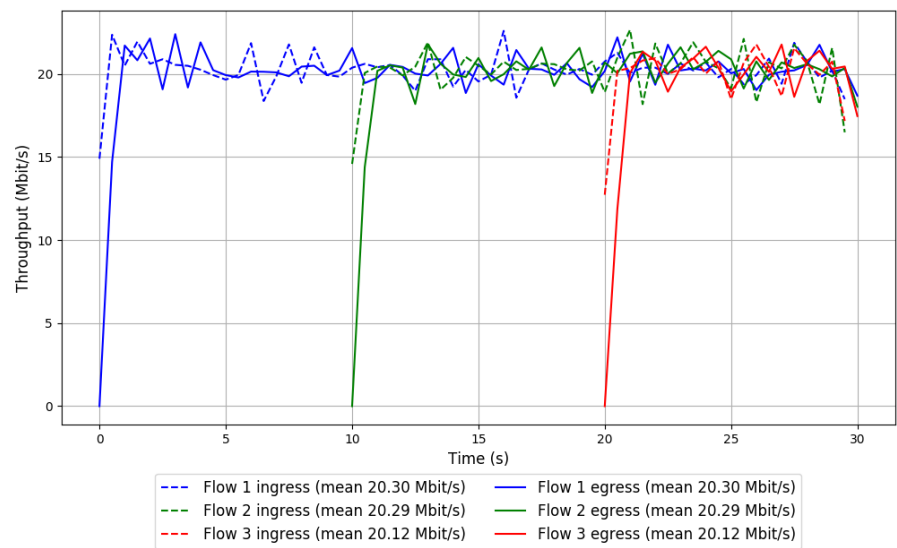
-- Flow 3:

Average throughput: 20.12 Mbit/s

95th percentile per-packet one-way delay: 23.836 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

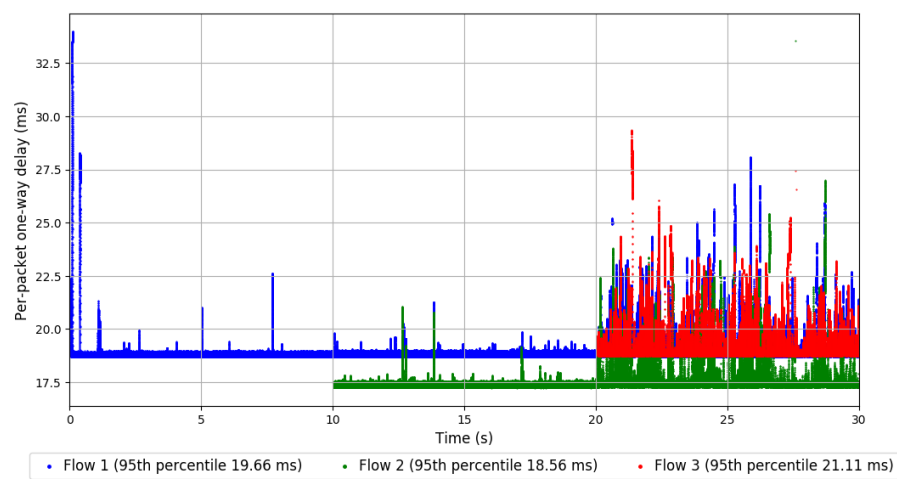
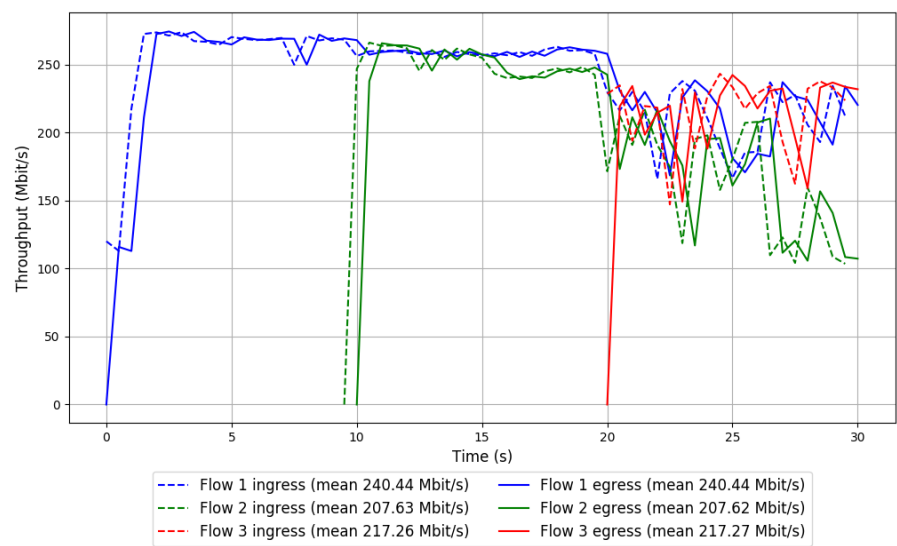


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-05-24 13:59:42
End at: 2018-05-24 14:00:12
Local clock offset: 0.179 ms
Remote clock offset: 0.017 ms

# Below is generated by plot.py at 2018-05-24 20:18:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 451.08 Mbit/s
95th percentile per-packet one-way delay: 19.930 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 240.44 Mbit/s
95th percentile per-packet one-way delay: 19.658 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 207.62 Mbit/s
95th percentile per-packet one-way delay: 18.557 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 217.27 Mbit/s
95th percentile per-packet one-way delay: 21.107 ms
Loss rate: 0.01%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-05-24 14:25:36

End at: 2018-05-24 14:26:06

Local clock offset: 0.527 ms

Remote clock offset: 0.488 ms

Below is generated by plot.py at 2018-05-24 20:18:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 435.23 Mbit/s

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

Loss rate: 0.01%

-- Flow 1:

Average throughput: 225.72 Mbit/s

95th percentile per-packet one-way delay: 19.747 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 229.22 Mbit/s

95th percentile per-packet one-way delay: 20.062 ms

Loss rate: 0.01%

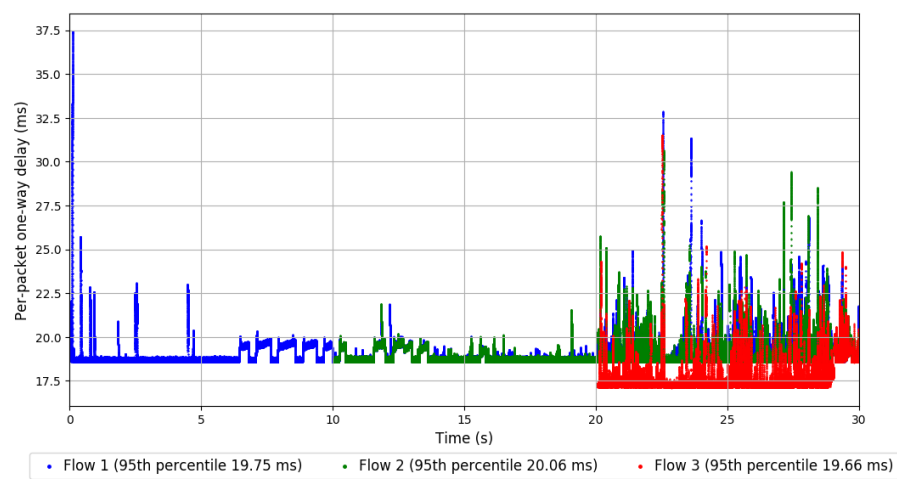
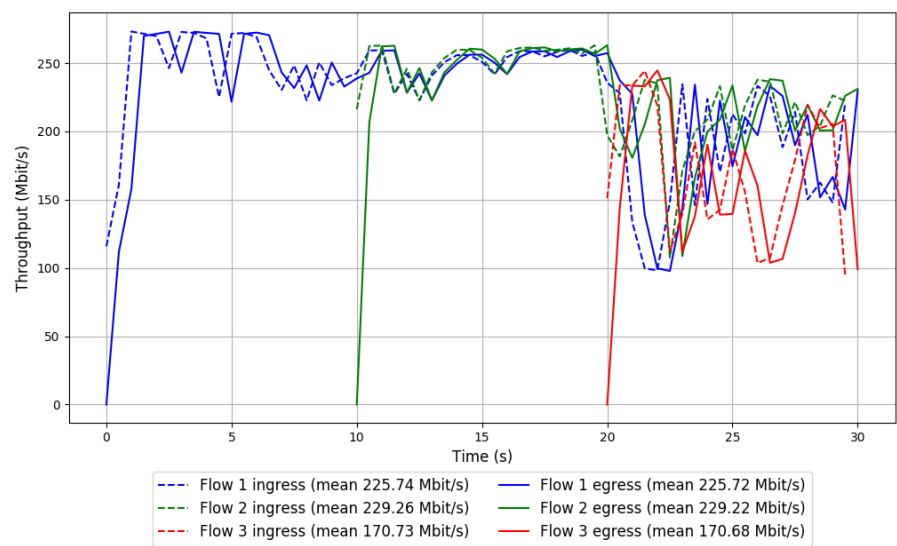
-- Flow 3:

Average throughput: 170.68 Mbit/s

95th percentile per-packet one-way delay: 19.665 ms

Loss rate: 0.01%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-05-24 14:51:35

End at: 2018-05-24 14:52:05

Local clock offset: 0.198 ms

Remote clock offset: 1.006 ms

Below is generated by plot.py at 2018-05-24 20:18:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 450.08 Mbit/s

95th percentile per-packet one-way delay: 20.433 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 229.62 Mbit/s

95th percentile per-packet one-way delay: 19.887 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 227.60 Mbit/s

95th percentile per-packet one-way delay: 20.169 ms

Loss rate: 0.00%

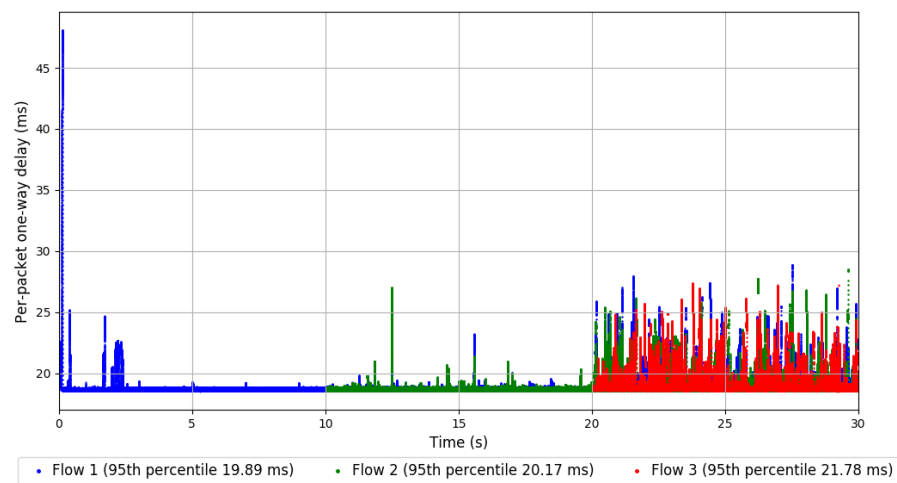
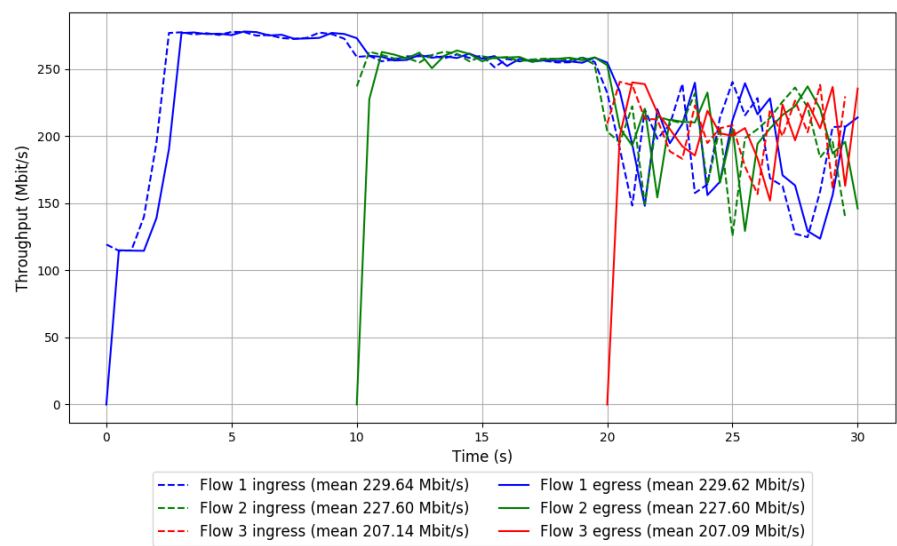
-- Flow 3:

Average throughput: 207.09 Mbit/s

95th percentile per-packet one-way delay: 21.778 ms

Loss rate: 0.01%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-05-24 15:17:46

End at: 2018-05-24 15:18:16

Local clock offset: 0.244 ms

Remote clock offset: 0.821 ms

Below is generated by plot.py at 2018-05-24 20:18:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 435.23 Mbit/s

95th percentile per-packet one-way delay: 19.108 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 222.92 Mbit/s

95th percentile per-packet one-way delay: 17.865 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 212.82 Mbit/s

95th percentile per-packet one-way delay: 19.795 ms

Loss rate: 0.00%

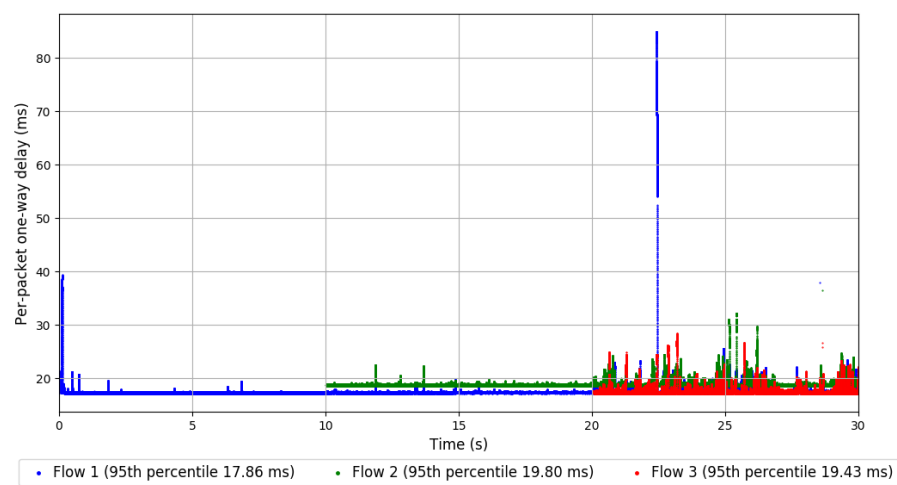
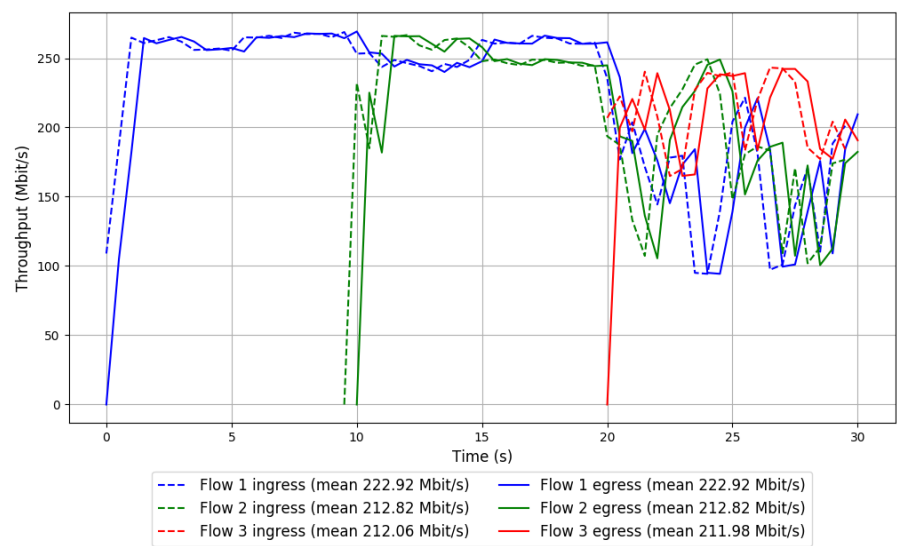
-- Flow 3:

Average throughput: 211.98 Mbit/s

95th percentile per-packet one-way delay: 19.434 ms

Loss rate: 0.02%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-05-24 15:43:30

End at: 2018-05-24 15:44:00

Local clock offset: 0.383 ms

Remote clock offset: 0.444 ms

Below is generated by plot.py at 2018-05-24 20:19:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 433.69 Mbit/s

95th percentile per-packet one-way delay: 19.669 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 220.31 Mbit/s

95th percentile per-packet one-way delay: 18.266 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 230.98 Mbit/s

95th percentile per-packet one-way delay: 20.120 ms

Loss rate: 0.01%

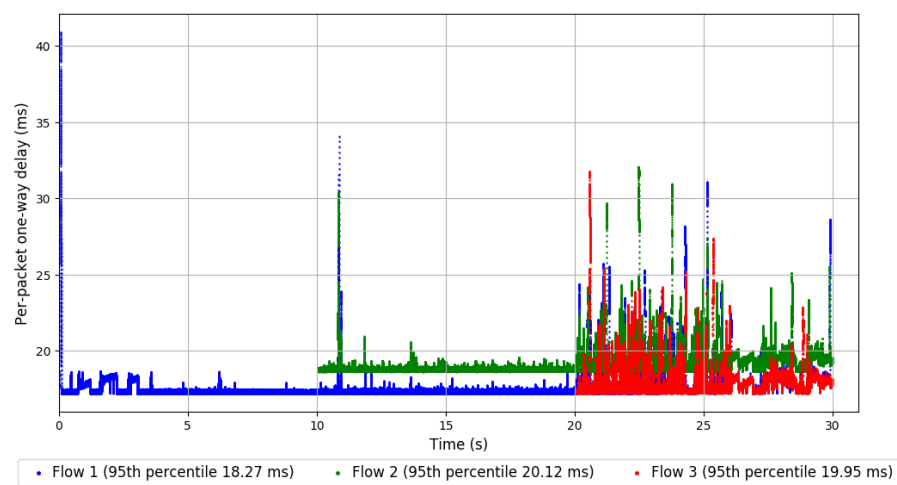
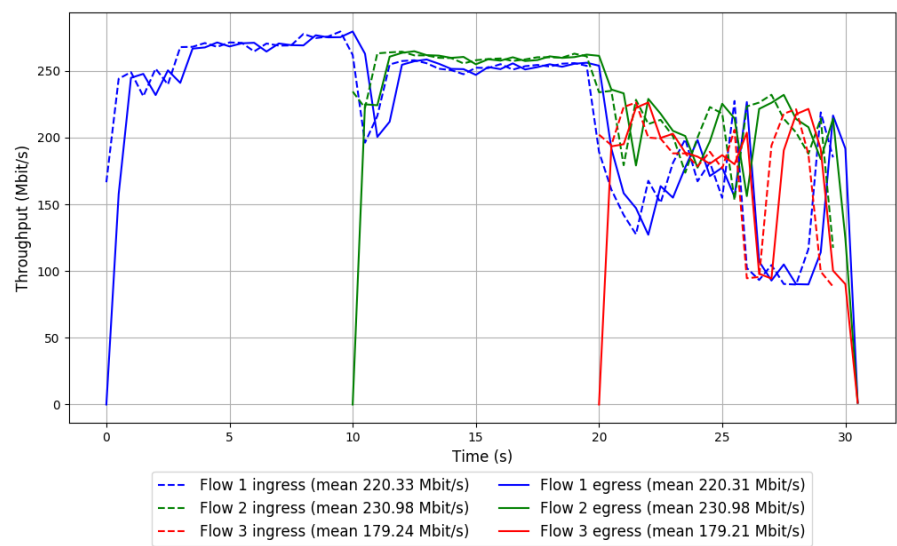
-- Flow 3:

Average throughput: 179.21 Mbit/s

95th percentile per-packet one-way delay: 19.954 ms

Loss rate: 0.01%

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

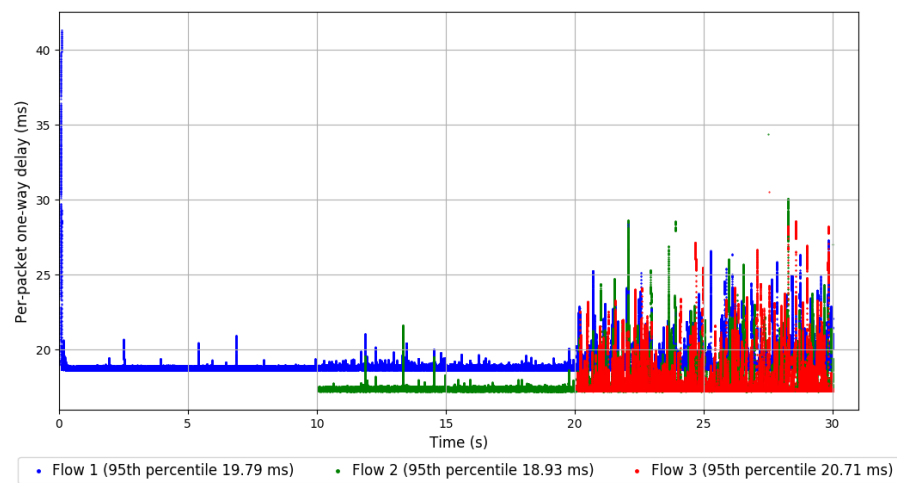
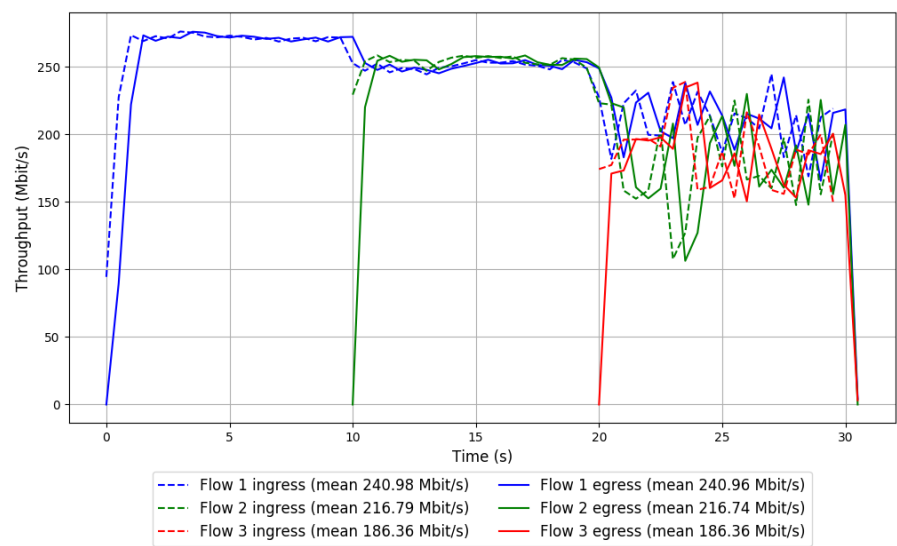


Run 6: Statistics of TaoVA-100x

Start at: 2018-05-24 16:09:22
End at: 2018-05-24 16:09:52
Local clock offset: 0.226 ms
Remote clock offset: -0.199 ms

Below is generated by plot.py at 2018-05-24 20:20:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 447.23 Mbit/s
95th percentile per-packet one-way delay: 19.764 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 240.96 Mbit/s
95th percentile per-packet one-way delay: 19.793 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 216.74 Mbit/s
95th percentile per-packet one-way delay: 18.935 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 186.36 Mbit/s
95th percentile per-packet one-way delay: 20.715 ms
Loss rate: 0.00%

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

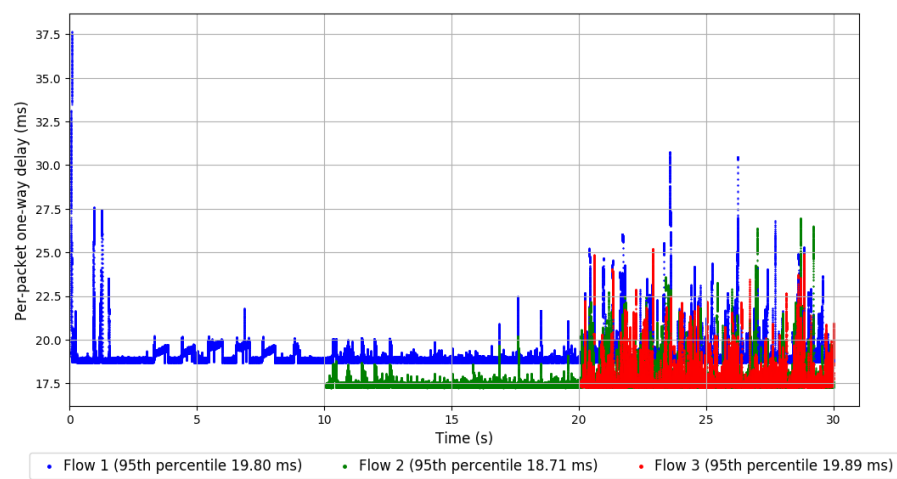
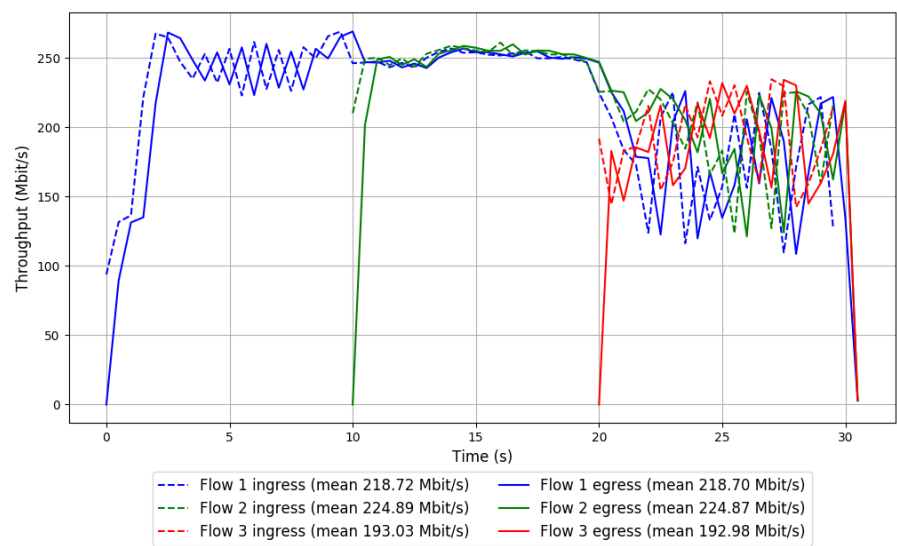


Run 7: Statistics of TaoVA-100x

Start at: 2018-05-24 16:35:07
End at: 2018-05-24 16:35:37
Local clock offset: 0.18 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2018-05-24 20:20:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 432.55 Mbit/s
95th percentile per-packet one-way delay: 19.692 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 218.70 Mbit/s
95th percentile per-packet one-way delay: 19.805 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 224.87 Mbit/s
95th percentile per-packet one-way delay: 18.713 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 192.98 Mbit/s
95th percentile per-packet one-way delay: 19.892 ms
Loss rate: 0.01%

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

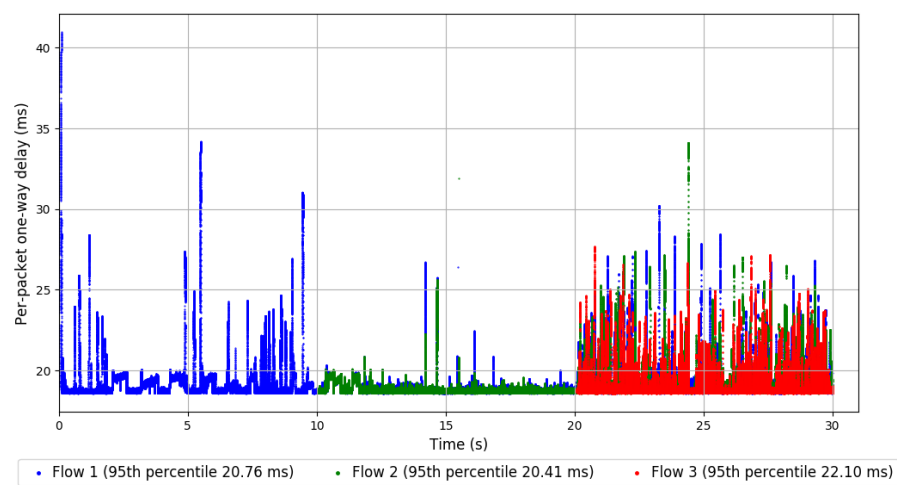
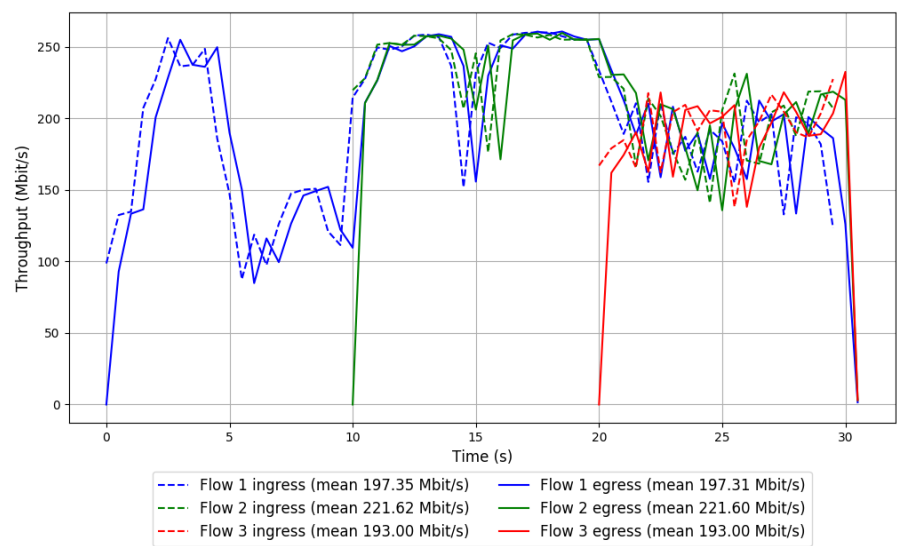


Run 8: Statistics of TaoVA-100x

Start at: 2018-05-24 17:00:45
End at: 2018-05-24 17:01:15
Local clock offset: 0.213 ms
Remote clock offset: -0.032 ms

Below is generated by plot.py at 2018-05-24 20:21:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 409.01 Mbit/s
95th percentile per-packet one-way delay: 20.990 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 197.31 Mbit/s
95th percentile per-packet one-way delay: 20.764 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 221.60 Mbit/s
95th percentile per-packet one-way delay: 20.409 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 193.00 Mbit/s
95th percentile per-packet one-way delay: 22.097 ms
Loss rate: 0.02%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-05-24 17:26:37

End at: 2018-05-24 17:27:07

Local clock offset: 0.33 ms

Remote clock offset: 0.107 ms

Below is generated by plot.py at 2018-05-24 20:29:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 443.86 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 231.56 Mbit/s

95th percentile per-packet one-way delay: 18.248 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 226.62 Mbit/s

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

Loss rate: 0.00%

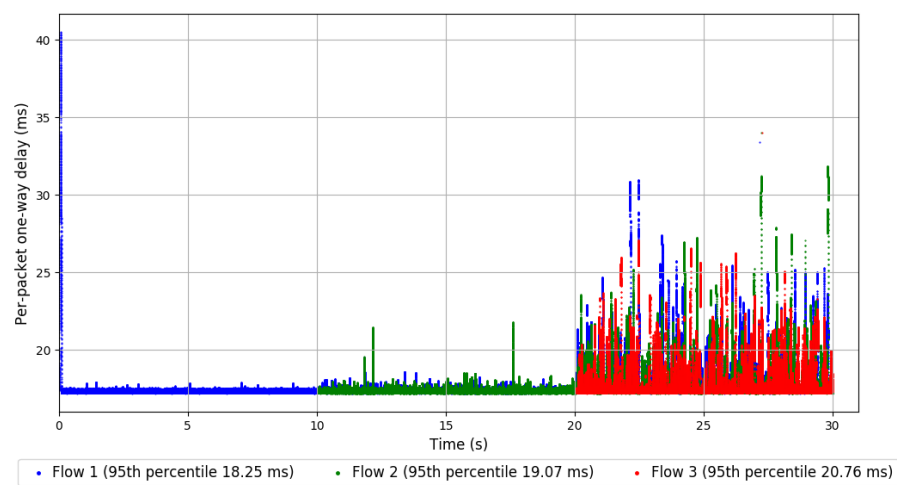
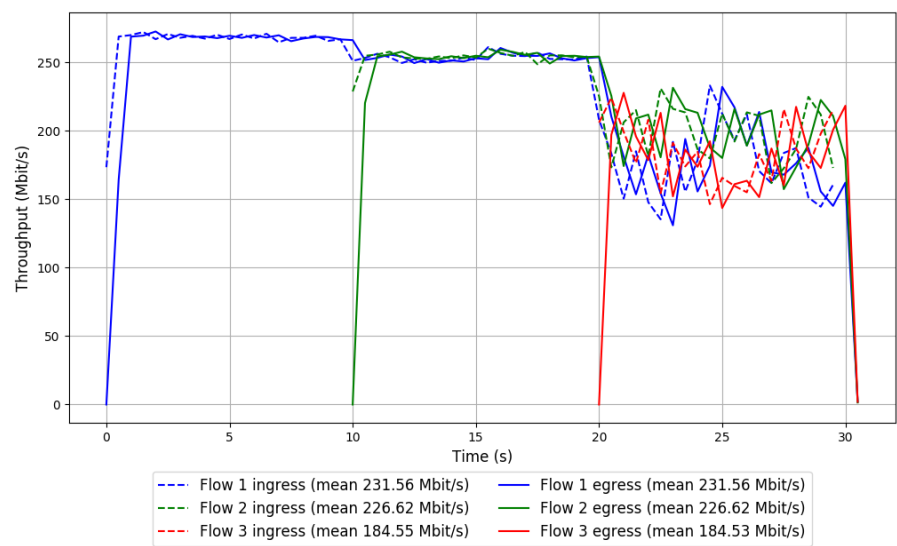
-- Flow 3:

Average throughput: 184.53 Mbit/s

95th percentile per-packet one-way delay: 20.760 ms

Loss rate: 0.00%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-05-24 17:52:07

End at: 2018-05-24 17:52:37

Local clock offset: 0.551 ms

Remote clock offset: 0.266 ms

Below is generated by plot.py at 2018-05-24 20:29:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 431.74 Mbit/s

95th percentile per-packet one-way delay: 19.298 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 226.08 Mbit/s

95th percentile per-packet one-way delay: 18.518 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 218.99 Mbit/s

95th percentile per-packet one-way delay: 19.647 ms

Loss rate: 0.01%

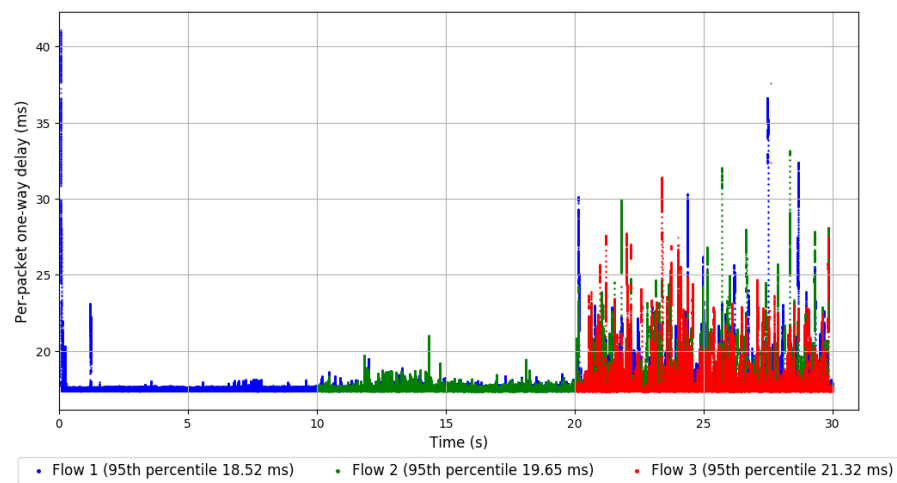
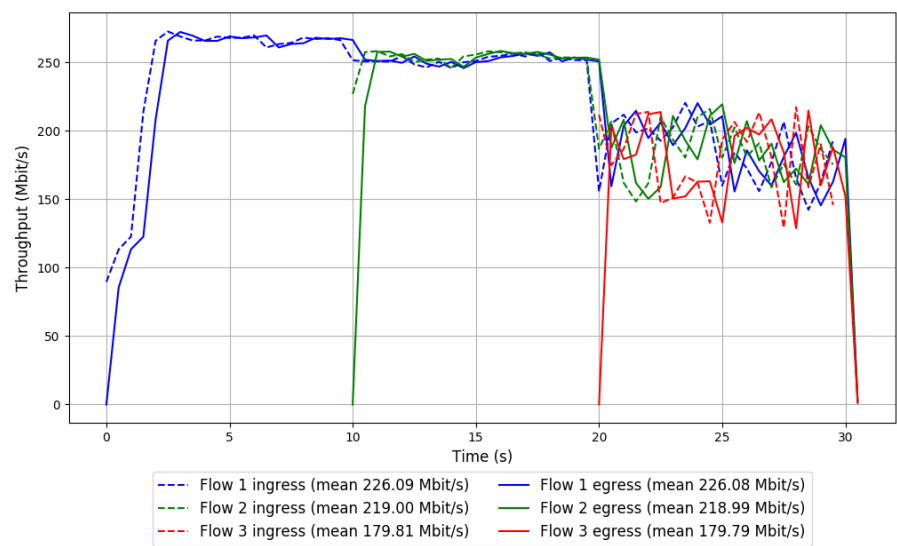
-- Flow 3:

Average throughput: 179.79 Mbit/s

95th percentile per-packet one-way delay: 21.316 ms

Loss rate: 0.01%

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

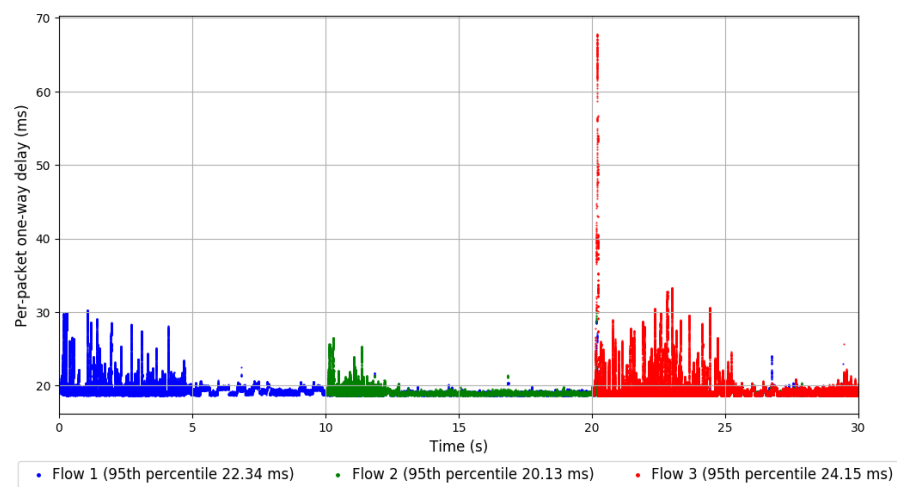
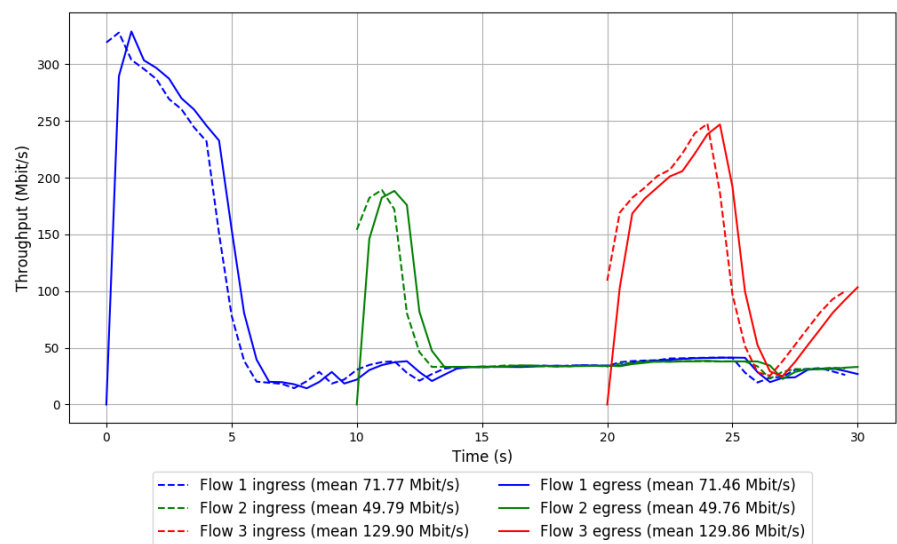


Run 1: Statistics of TCP Vegas

Start at: 2018-05-24 13:53:05
End at: 2018-05-24 13:53:35
Local clock offset: 0.242 ms
Remote clock offset: -0.039 ms

Below is generated by plot.py at 2018-05-24 20:29:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 147.75 Mbit/s
95th percentile per-packet one-way delay: 22.487 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 71.46 Mbit/s
95th percentile per-packet one-way delay: 22.339 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 49.76 Mbit/s
95th percentile per-packet one-way delay: 20.132 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 129.86 Mbit/s
95th percentile per-packet one-way delay: 24.152 ms
Loss rate: 0.02%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-05-24 14:19:04

End at: 2018-05-24 14:19:34

Local clock offset: 0.508 ms

Remote clock offset: 0.442 ms

Below is generated by plot.py at 2018-05-24 20:29:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 370.19 Mbit/s

95th percentile per-packet one-way delay: 25.918 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 222.15 Mbit/s

95th percentile per-packet one-way delay: 24.385 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 118.09 Mbit/s

95th percentile per-packet one-way delay: 28.452 ms

Loss rate: 0.07%

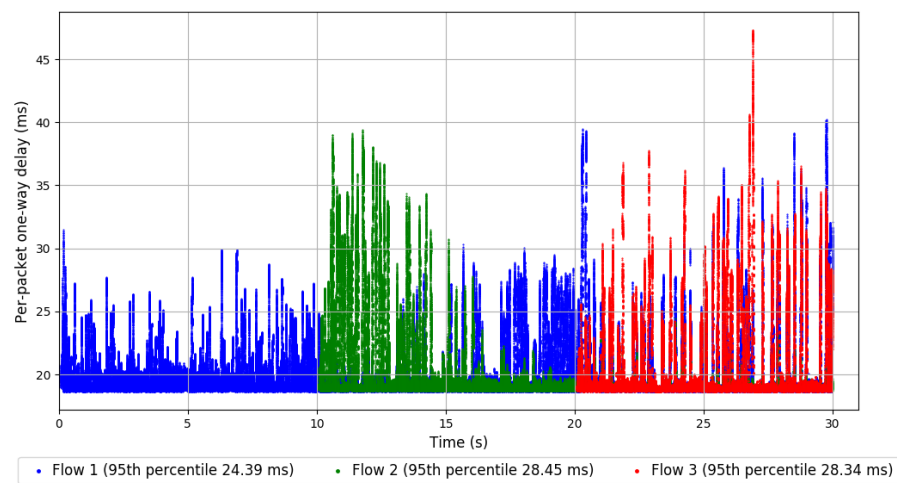
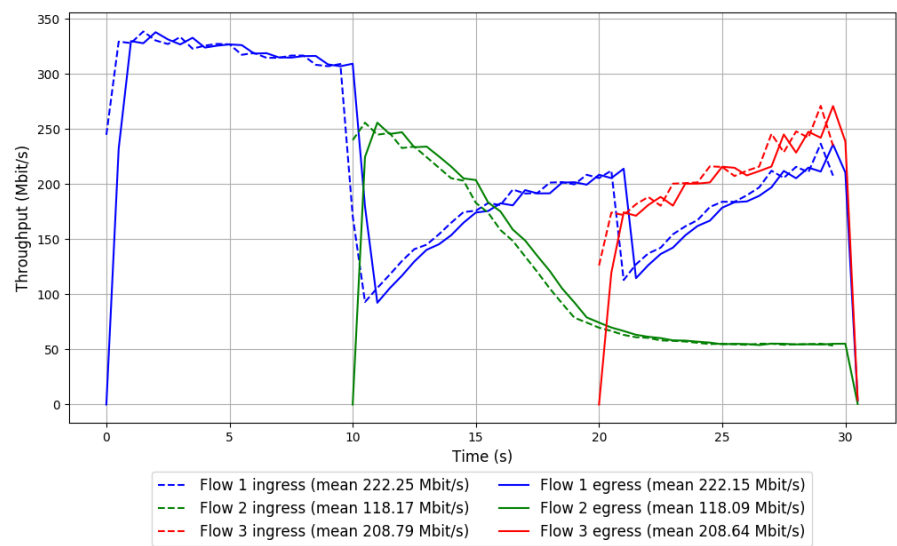
-- Flow 3:

Average throughput: 208.64 Mbit/s

95th percentile per-packet one-way delay: 28.341 ms

Loss rate: 0.06%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-05-24 14:45:17

End at: 2018-05-24 14:45:47

Local clock offset: 0.151 ms

Remote clock offset: 0.882 ms

Below is generated by plot.py at 2018-05-24 20:29:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 183.81 Mbit/s

95th percentile per-packet one-way delay: 21.811 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 110.54 Mbit/s

95th percentile per-packet one-way delay: 22.220 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 44.99 Mbit/s

95th percentile per-packet one-way delay: 19.807 ms

Loss rate: 0.11%

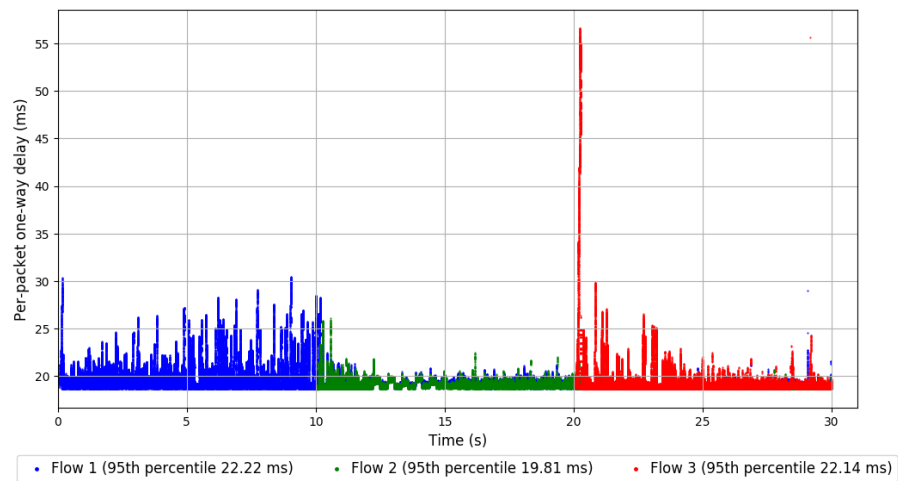
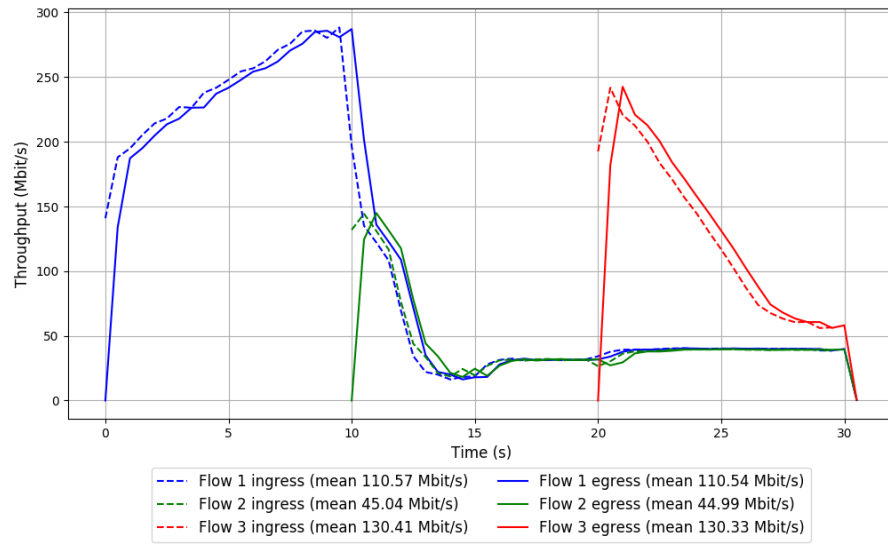
-- Flow 3:

Average throughput: 130.33 Mbit/s

95th percentile per-packet one-way delay: 22.143 ms

Loss rate: 0.06%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-05-24 15:11:09

End at: 2018-05-24 15:11:39

Local clock offset: 0.247 ms

Remote clock offset: 1.336 ms

Below is generated by plot.py at 2018-05-24 20:29:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 332.18 Mbit/s

95th percentile per-packet one-way delay: 28.267 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 166.68 Mbit/s

95th percentile per-packet one-way delay: 24.351 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 141.56 Mbit/s

95th percentile per-packet one-way delay: 30.741 ms

Loss rate: 0.02%

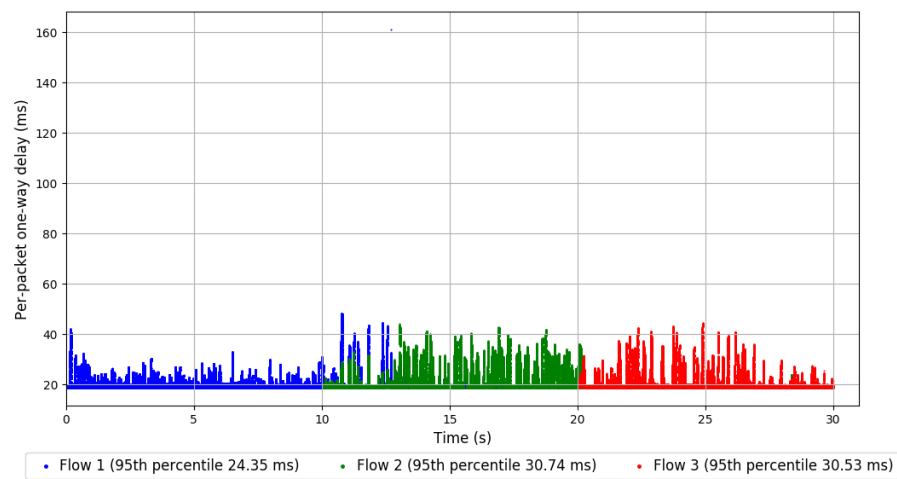
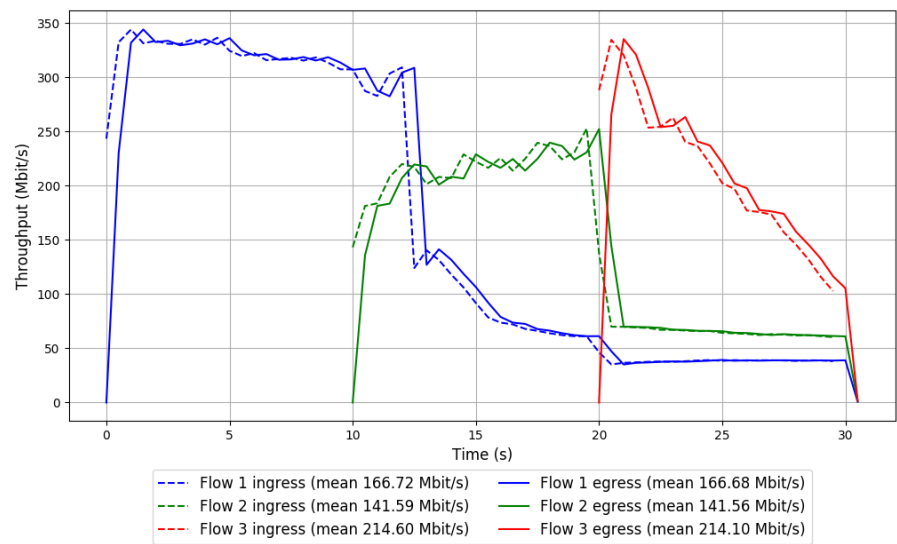
-- Flow 3:

Average throughput: 214.10 Mbit/s

95th percentile per-packet one-way delay: 30.526 ms

Loss rate: 0.21%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-05-24 15:36:57

End at: 2018-05-24 15:37:27

Local clock offset: 0.346 ms

Remote clock offset: 0.487 ms

Below is generated by plot.py at 2018-05-24 20:29:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 205.42 Mbit/s

95th percentile per-packet one-way delay: 21.083 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 109.74 Mbit/s

95th percentile per-packet one-way delay: 20.772 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 105.22 Mbit/s

95th percentile per-packet one-way delay: 21.538 ms

Loss rate: 0.02%

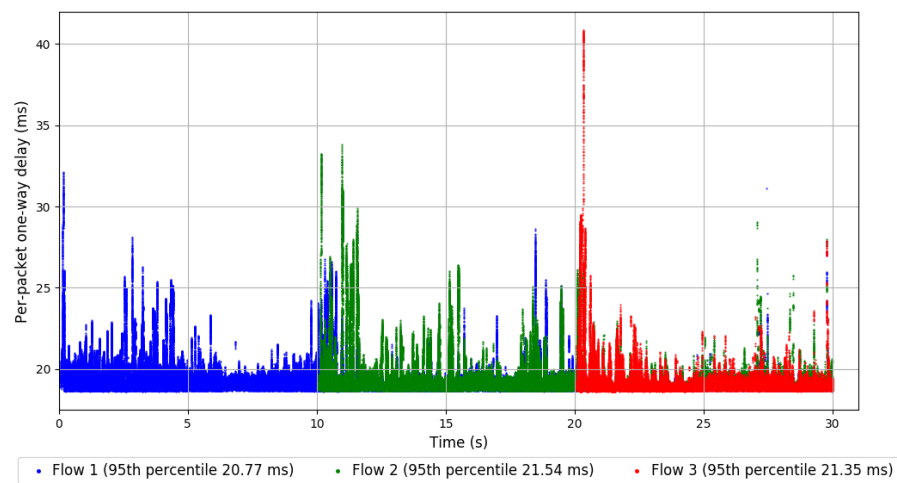
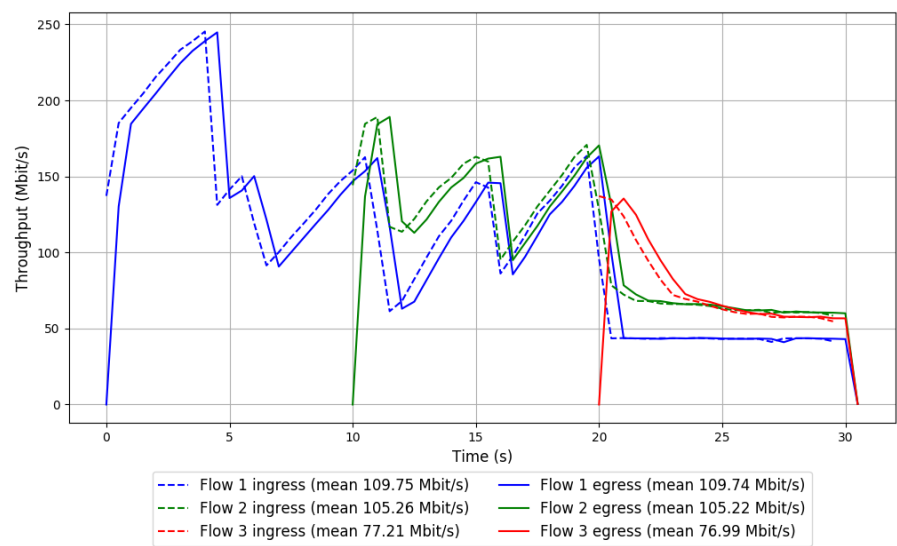
-- Flow 3:

Average throughput: 76.99 Mbit/s

95th percentile per-packet one-way delay: 21.348 ms

Loss rate: 0.27%

Run 5: Report of TCP Vegas — Data Link

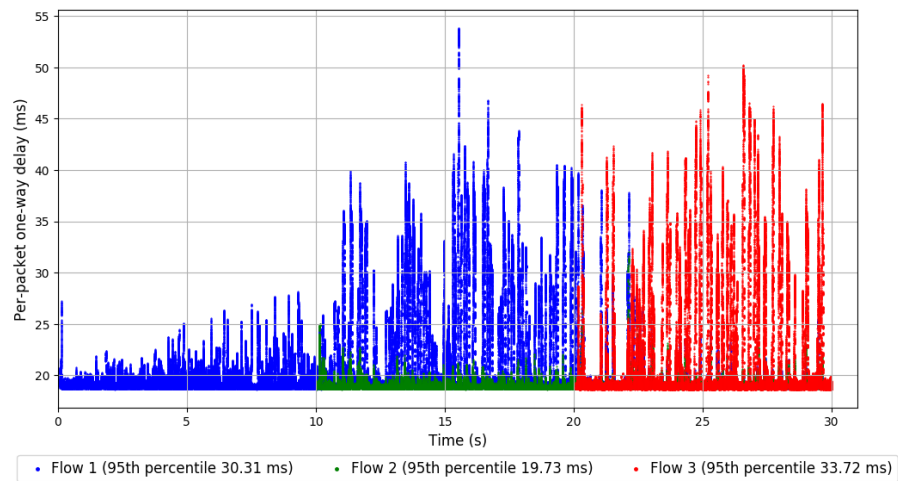
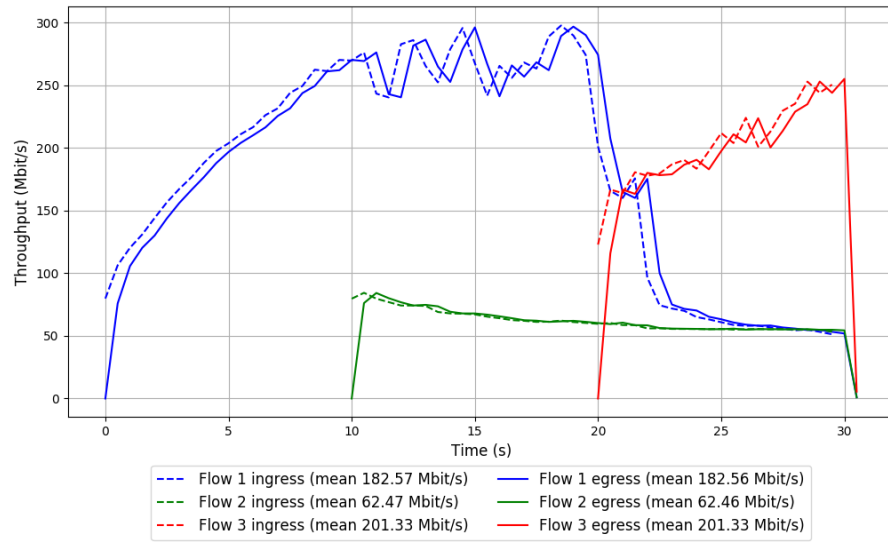


Run 6: Statistics of TCP Vegas

Start at: 2018-05-24 16:02:42
End at: 2018-05-24 16:03:12
Local clock offset: 0.346 ms
Remote clock offset: -0.101 ms

Below is generated by plot.py at 2018-05-24 20:29:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 291.10 Mbit/s
95th percentile per-packet one-way delay: 30.455 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 182.56 Mbit/s
95th percentile per-packet one-way delay: 30.308 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 62.46 Mbit/s
95th percentile per-packet one-way delay: 19.732 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 201.33 Mbit/s
95th percentile per-packet one-way delay: 33.716 ms
Loss rate: 0.02%

Run 6: Report of TCP Vegas — Data Link

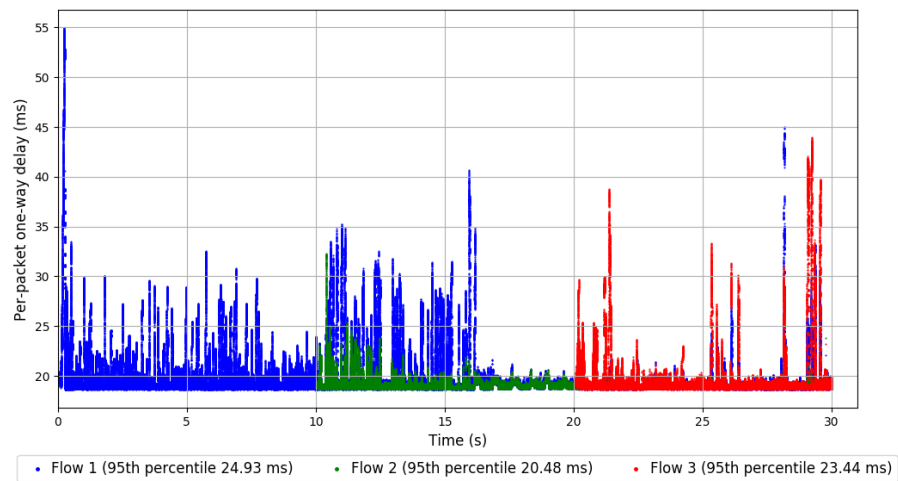
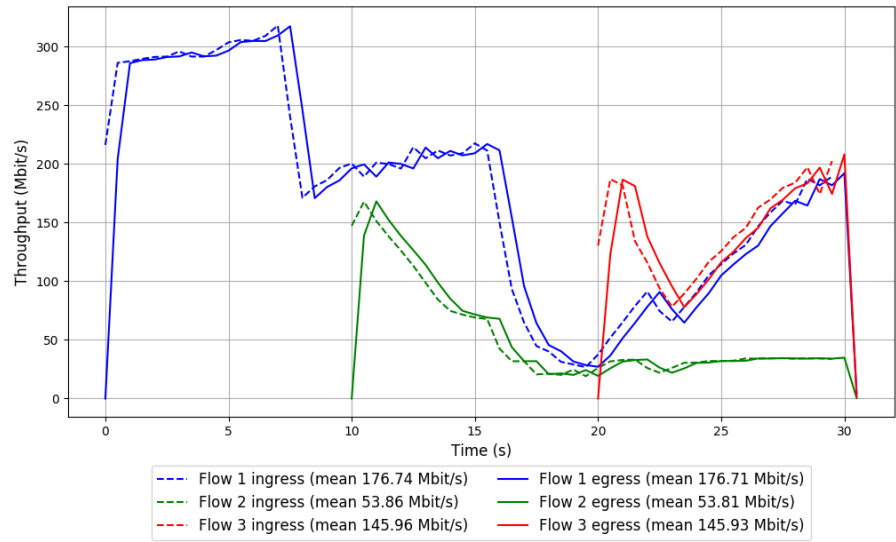


Run 7: Statistics of TCP Vegas

Start at: 2018-05-24 16:28:34
End at: 2018-05-24 16:29:04
Local clock offset: 0.139 ms
Remote clock offset: -0.046 ms

Below is generated by plot.py at 2018-05-24 20:29:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 260.99 Mbit/s
95th percentile per-packet one-way delay: 24.085 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 176.71 Mbit/s
95th percentile per-packet one-way delay: 24.931 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 53.81 Mbit/s
95th percentile per-packet one-way delay: 20.480 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 145.93 Mbit/s
95th percentile per-packet one-way delay: 23.444 ms
Loss rate: 0.02%

Run 7: Report of TCP Vegas — Data Link

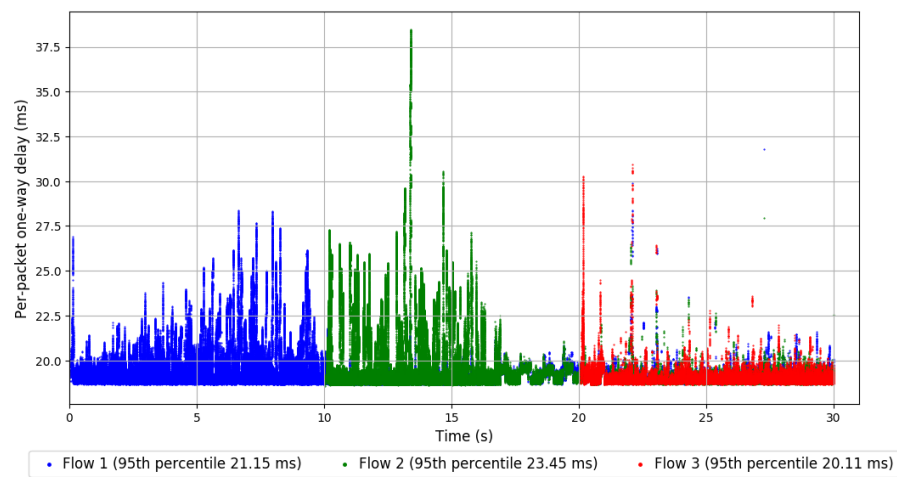
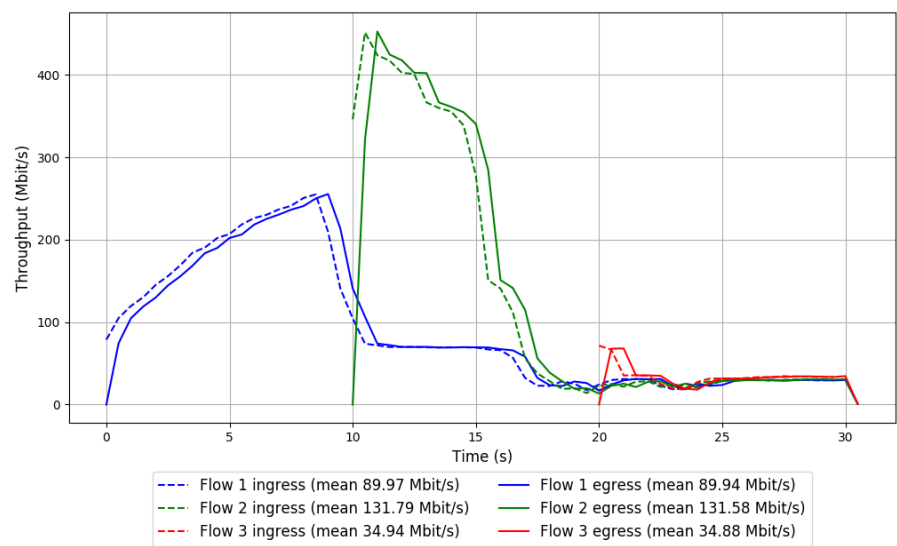


Run 8: Statistics of TCP Vegas

Start at: 2018-05-24 16:54:21
End at: 2018-05-24 16:54:51
Local clock offset: 0.205 ms
Remote clock offset: -0.051 ms

```
# Below is generated by plot.py at 2018-05-24 20:29:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 189.20 Mbit/s
95th percentile per-packet one-way delay: 22.462 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 89.94 Mbit/s
95th percentile per-packet one-way delay: 21.148 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 131.58 Mbit/s
95th percentile per-packet one-way delay: 23.451 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 34.88 Mbit/s
95th percentile per-packet one-way delay: 20.111 ms
Loss rate: 0.18%
```

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-05-24 17:19:57

End at: 2018-05-24 17:20:27

Local clock offset: 0.299 ms

Remote clock offset: 0.139 ms

Below is generated by plot.py at 2018-05-24 20:29:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 259.86 Mbit/s

95th percentile per-packet one-way delay: 24.625 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 80.05 Mbit/s

95th percentile per-packet one-way delay: 21.678 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 191.25 Mbit/s

95th percentile per-packet one-way delay: 25.494 ms

Loss rate: 0.01%

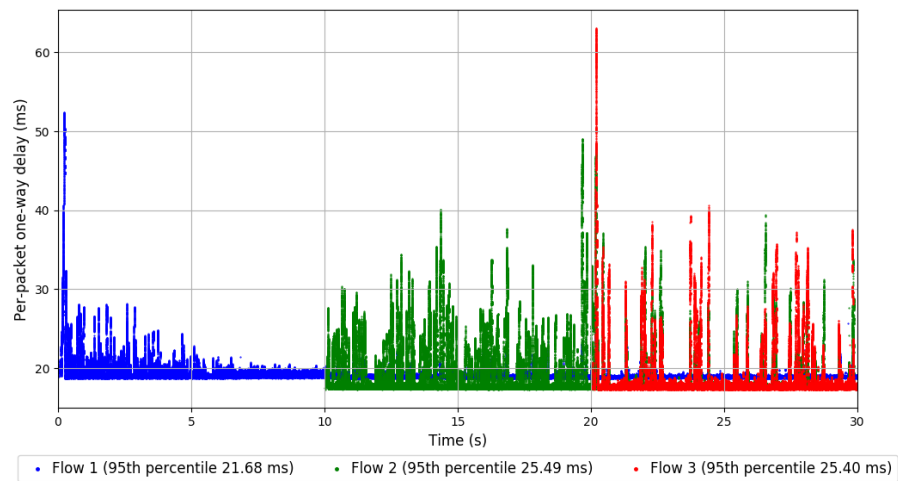
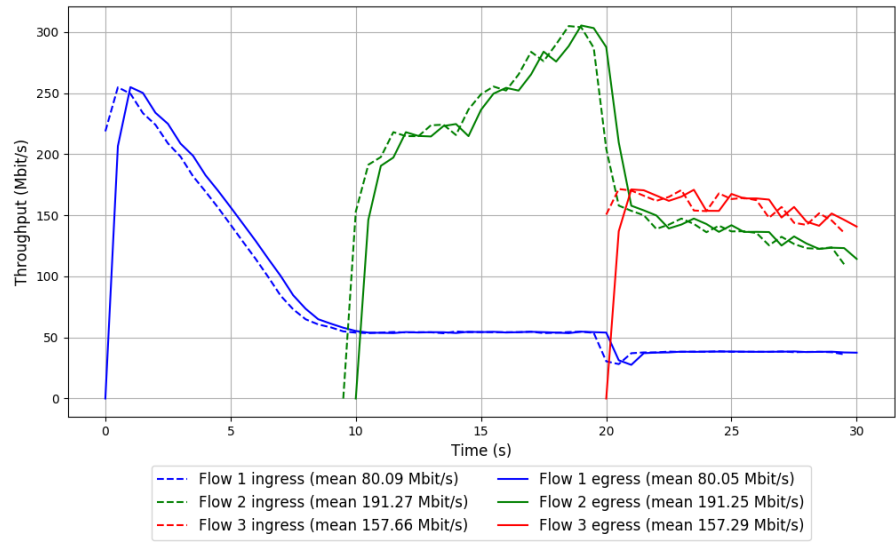
-- Flow 3:

Average throughput: 157.29 Mbit/s

95th percentile per-packet one-way delay: 25.400 ms

Loss rate: 0.23%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-05-24 17:45:47

End at: 2018-05-24 17:46:17

Local clock offset: 0.587 ms

Remote clock offset: 0.267 ms

Below is generated by plot.py at 2018-05-24 20:29:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 191.99 Mbit/s

95th percentile per-packet one-way delay: 22.503 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 72.80 Mbit/s

95th percentile per-packet one-way delay: 20.551 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 134.86 Mbit/s

95th percentile per-packet one-way delay: 23.764 ms

Loss rate: 0.02%

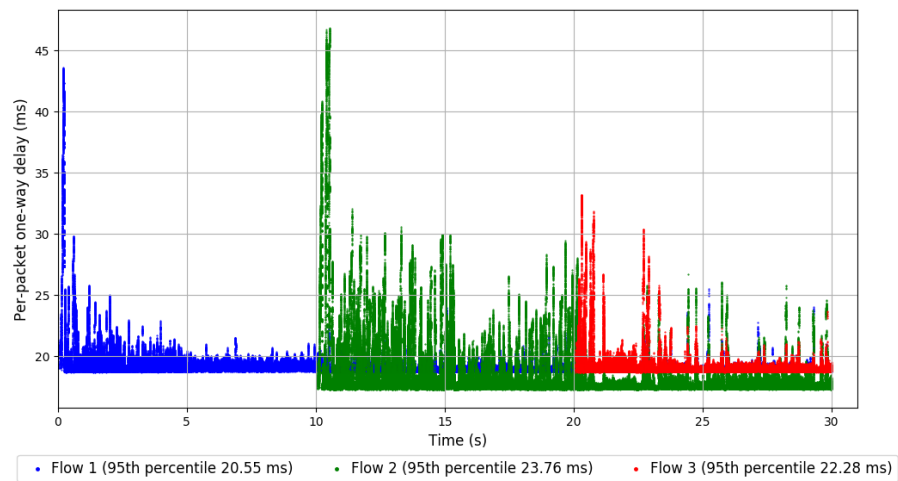
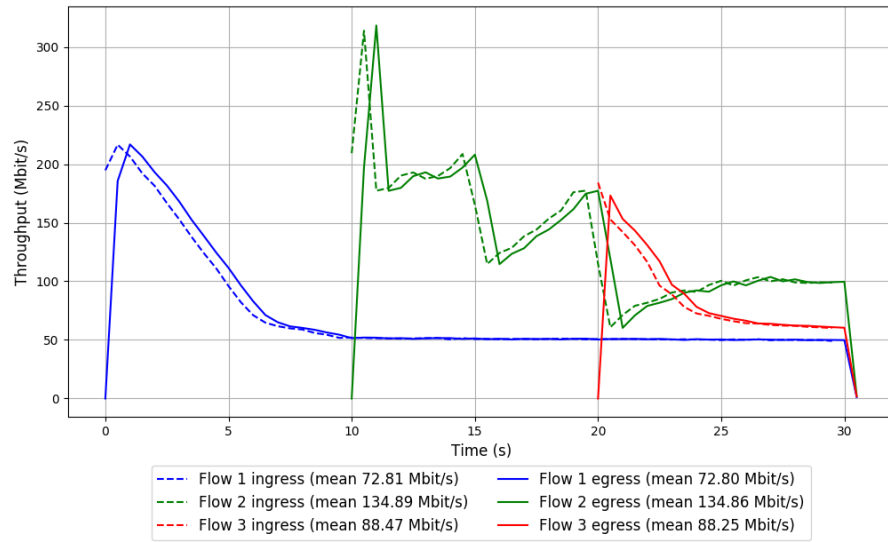
-- Flow 3:

Average throughput: 88.25 Mbit/s

95th percentile per-packet one-way delay: 22.282 ms

Loss rate: 0.25%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-05-24 14:10:13

End at: 2018-05-24 14:10:43

Local clock offset: 0.437 ms

Remote clock offset: 0.295 ms

Below is generated by plot.py at 2018-05-24 20:30:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 396.47 Mbit/s

95th percentile per-packet one-way delay: 71.519 ms

Loss rate: 21.18%

-- Flow 1:

Average throughput: 200.49 Mbit/s

95th percentile per-packet one-way delay: 79.951 ms

Loss rate: 23.24%

-- Flow 2:

Average throughput: 200.27 Mbit/s

95th percentile per-packet one-way delay: 37.759 ms

Loss rate: 18.15%

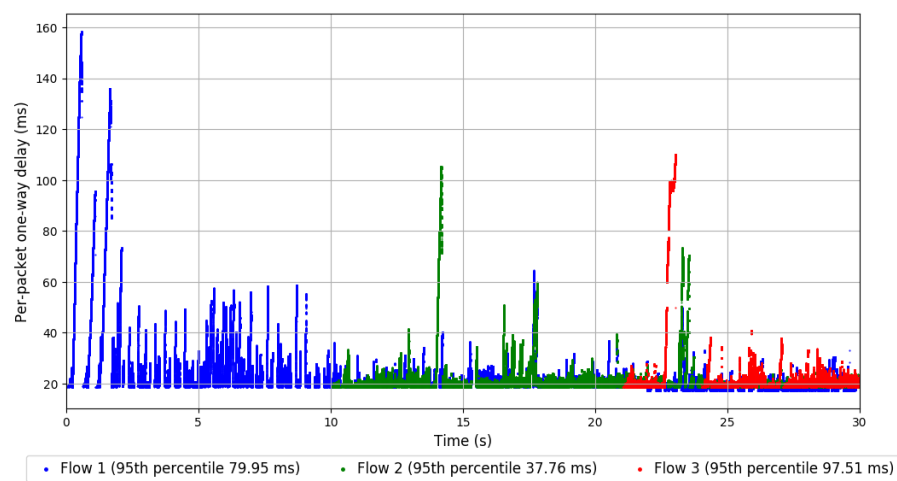
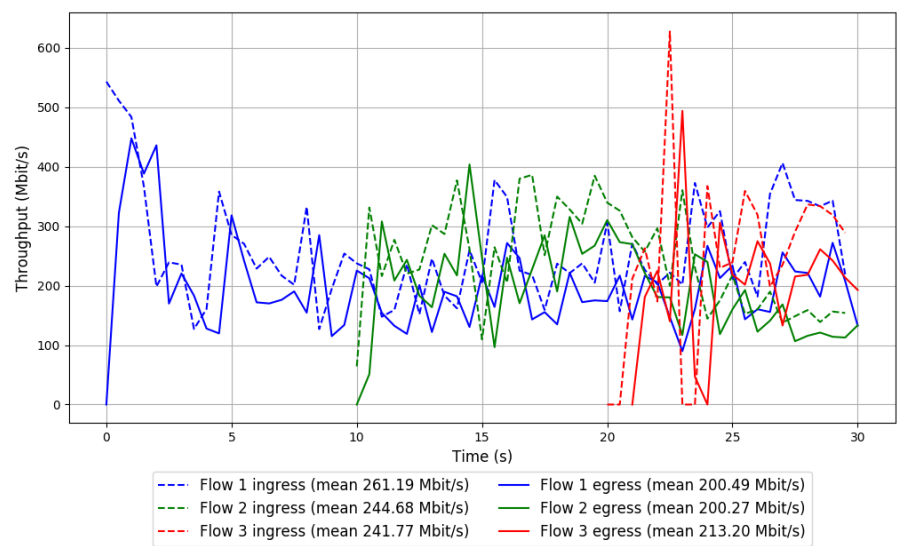
-- Flow 3:

Average throughput: 213.20 Mbit/s

95th percentile per-packet one-way delay: 97.508 ms

Loss rate: 20.68%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-05-24 14:36:15

End at: 2018-05-24 14:36:45

Local clock offset: 0.349 ms

Remote clock offset: 0.694 ms

Below is generated by plot.py at 2018-05-24 20:30:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 371.27 Mbit/s

95th percentile per-packet one-way delay: 42.736 ms

Loss rate: 20.28%

-- Flow 1:

Average throughput: 188.03 Mbit/s

95th percentile per-packet one-way delay: 44.029 ms

Loss rate: 21.69%

-- Flow 2:

Average throughput: 195.64 Mbit/s

95th percentile per-packet one-way delay: 51.481 ms

Loss rate: 18.79%

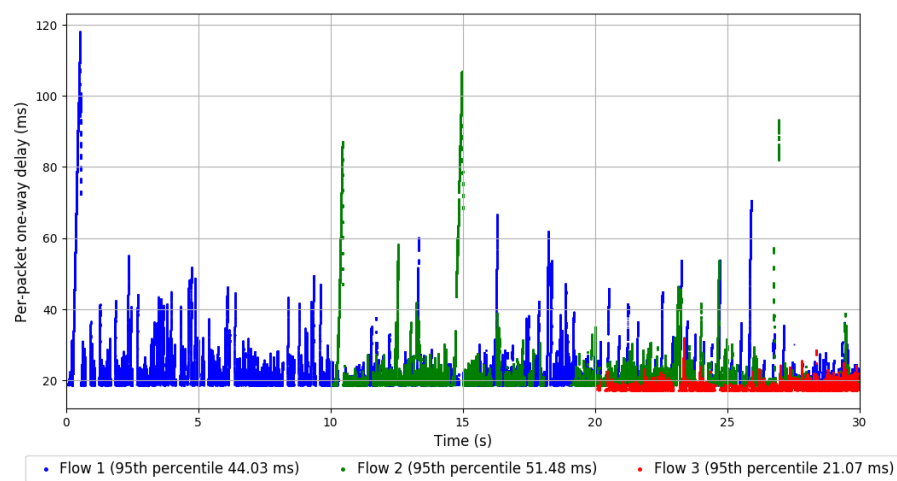
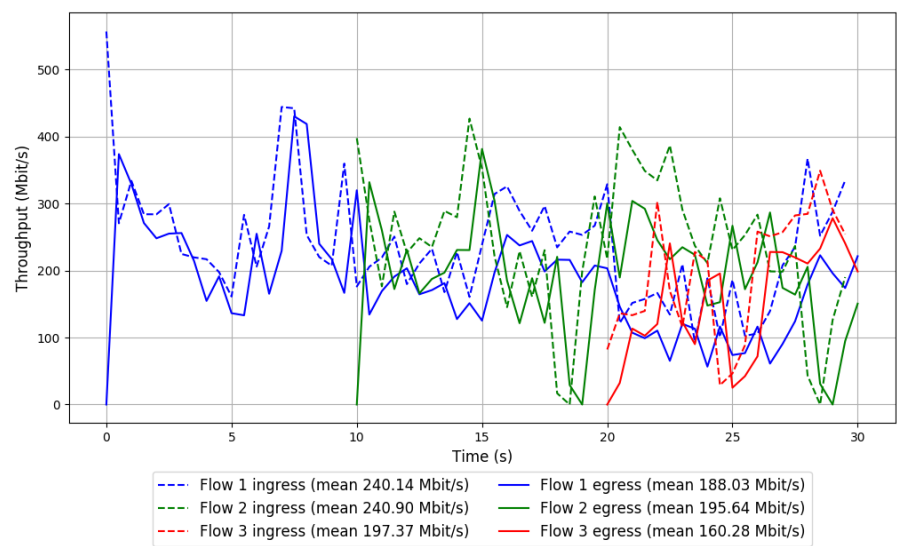
-- Flow 3:

Average throughput: 160.28 Mbit/s

95th percentile per-packet one-way delay: 21.068 ms

Loss rate: 18.78%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-05-24 15:02:06

End at: 2018-05-24 15:02:36

Local clock offset: 0.115 ms

Remote clock offset: 1.354 ms

Below is generated by plot.py at 2018-05-24 20:31:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 406.15 Mbit/s

95th percentile per-packet one-way delay: 30.939 ms

Loss rate: 20.23%

-- Flow 1:

Average throughput: 220.98 Mbit/s

95th percentile per-packet one-way delay: 32.770 ms

Loss rate: 20.46%

-- Flow 2:

Average throughput: 178.03 Mbit/s

95th percentile per-packet one-way delay: 32.384 ms

Loss rate: 21.31%

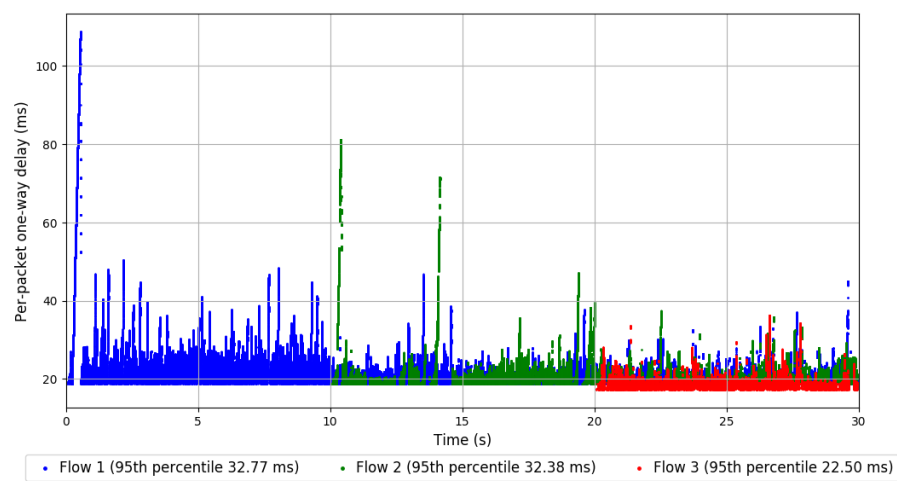
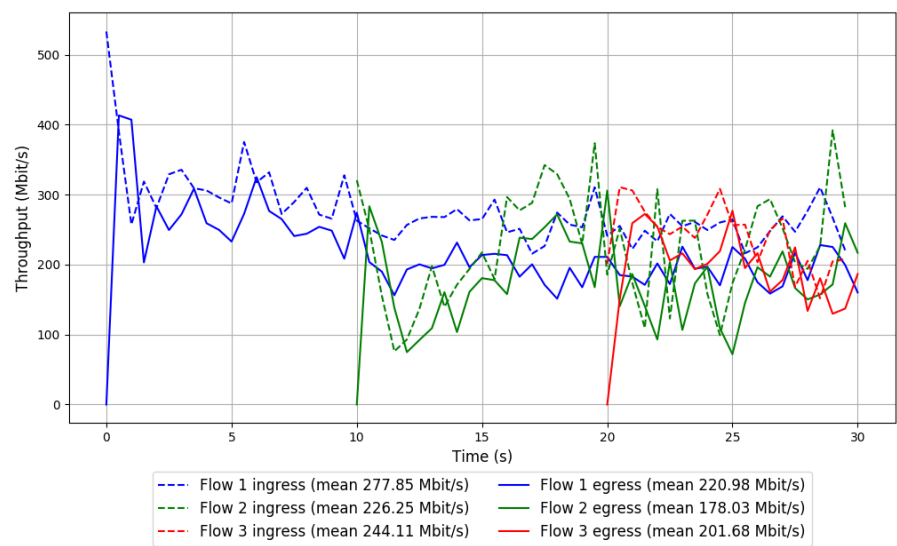
-- Flow 3:

Average throughput: 201.68 Mbit/s

95th percentile per-packet one-way delay: 22.504 ms

Loss rate: 17.38%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-05-24 15:28:07

End at: 2018-05-24 15:28:37

Local clock offset: 0.24 ms

Remote clock offset: 0.548 ms

Below is generated by plot.py at 2018-05-24 20:31:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 357.59 Mbit/s

95th percentile per-packet one-way delay: 33.018 ms

Loss rate: 20.81%

-- Flow 1:

Average throughput: 185.80 Mbit/s

95th percentile per-packet one-way delay: 35.630 ms

Loss rate: 19.09%

-- Flow 2:

Average throughput: 192.43 Mbit/s

95th percentile per-packet one-way delay: 31.962 ms

Loss rate: 24.14%

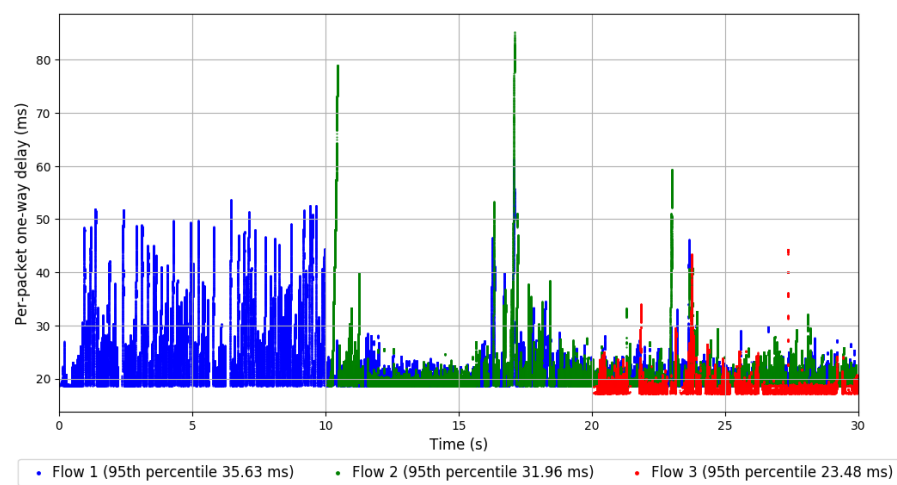
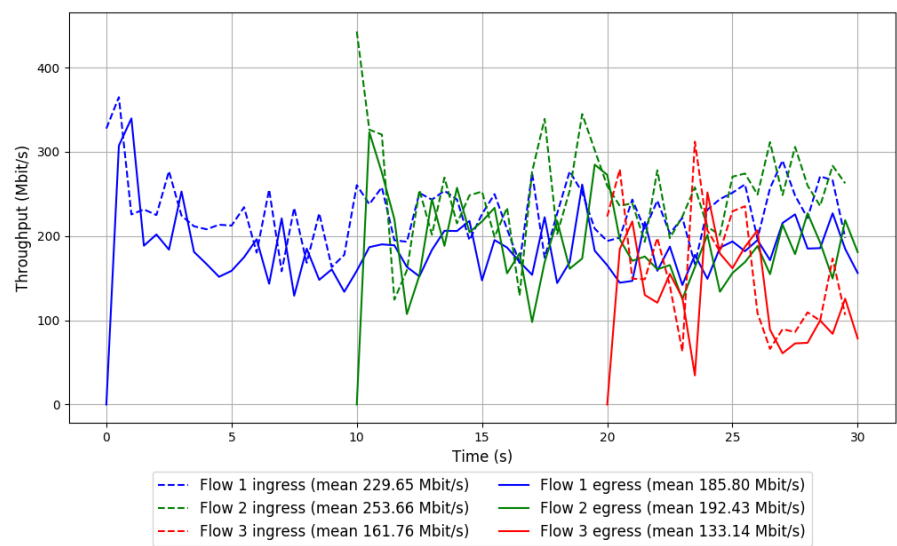
-- Flow 3:

Average throughput: 133.14 Mbit/s

95th percentile per-packet one-way delay: 23.485 ms

Loss rate: 17.69%

Run 4: Report of Verus — Data Link

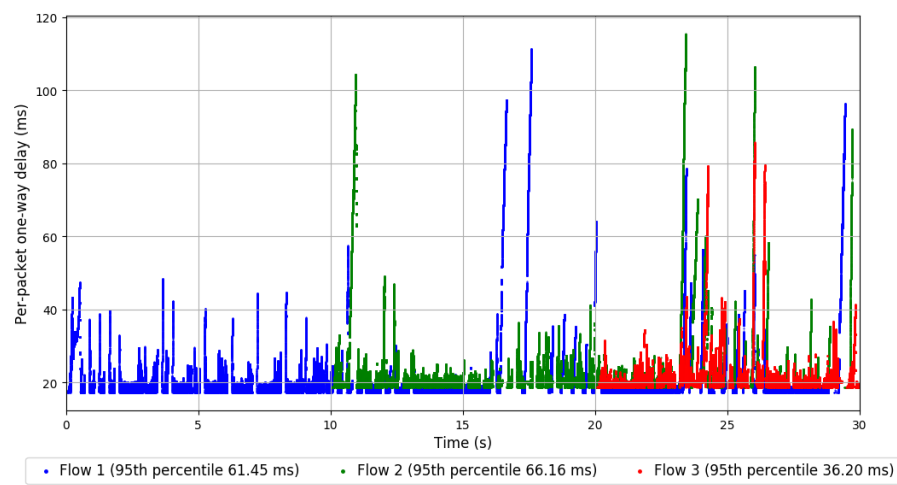
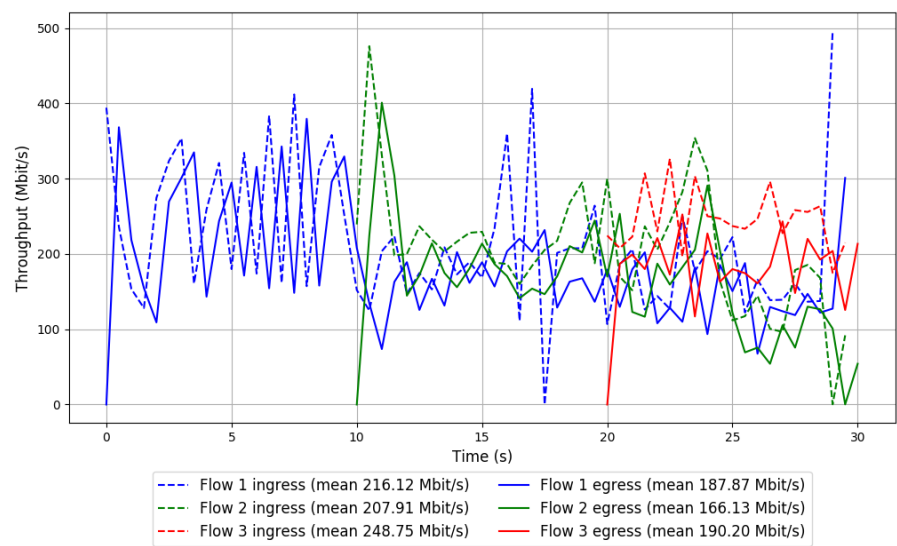


Run 5: Statistics of Verus

Start at: 2018-05-24 15:53:46
End at: 2018-05-24 15:54:16
Local clock offset: 0.315 ms
Remote clock offset: -0.001 ms

Below is generated by plot.py at 2018-05-24 20:31:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 358.09 Mbit/s
95th percentile per-packet one-way delay: 58.395 ms
Loss rate: 17.19%
-- Flow 1:
Average throughput: 187.87 Mbit/s
95th percentile per-packet one-way delay: 61.451 ms
Loss rate: 12.84%
-- Flow 2:
Average throughput: 166.13 Mbit/s
95th percentile per-packet one-way delay: 66.156 ms
Loss rate: 20.10%
-- Flow 3:
Average throughput: 190.20 Mbit/s
95th percentile per-packet one-way delay: 36.197 ms
Loss rate: 23.53%

Run 5: Report of Verus — Data Link

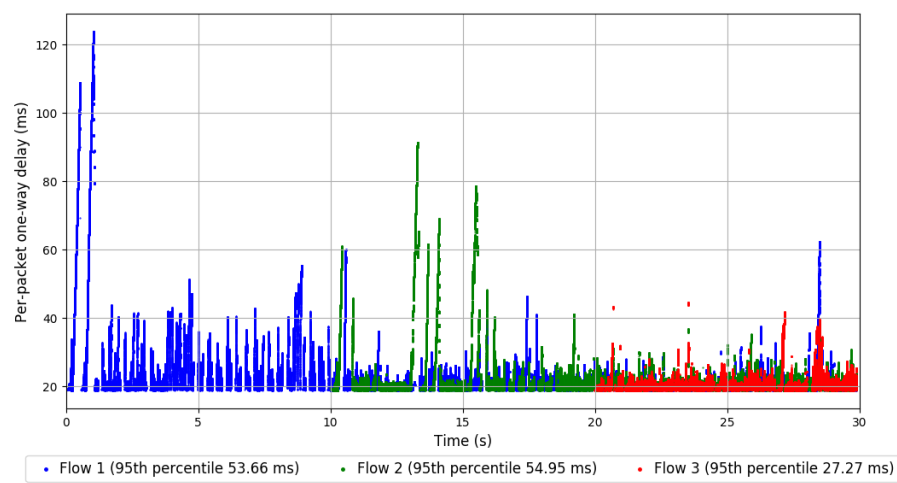
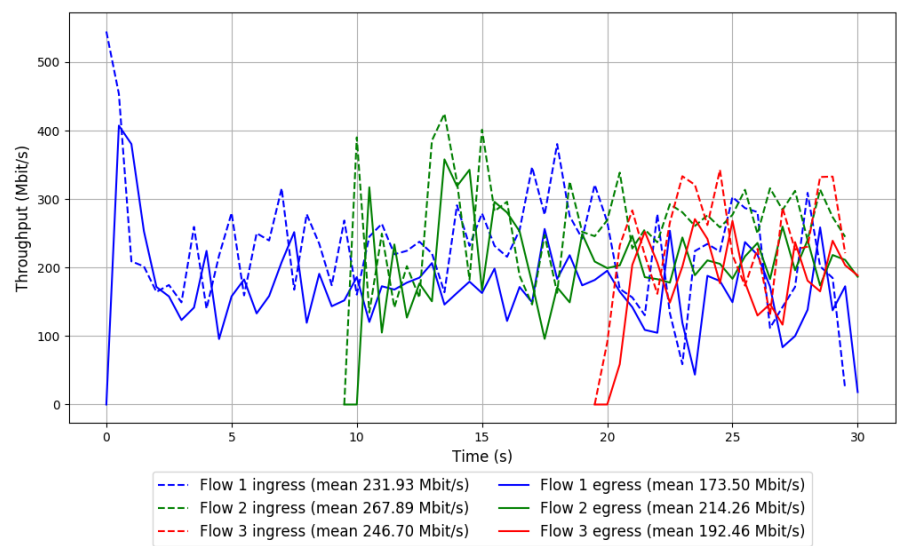


Run 6: Statistics of Verus

Start at: 2018-05-24 16:19:48
End at: 2018-05-24 16:20:18
Local clock offset: 0.07 ms
Remote clock offset: -0.135 ms

Below is generated by plot.py at 2018-05-24 20:32:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 380.12 Mbit/s
95th percentile per-packet one-way delay: 50.776 ms
Loss rate: 22.78%
-- Flow 1:
Average throughput: 173.50 Mbit/s
95th percentile per-packet one-way delay: 53.663 ms
Loss rate: 25.19%
-- Flow 2:
Average throughput: 214.26 Mbit/s
95th percentile per-packet one-way delay: 54.955 ms
Loss rate: 20.02%
-- Flow 3:
Average throughput: 192.46 Mbit/s
95th percentile per-packet one-way delay: 27.271 ms
Loss rate: 21.97%

Run 6: Report of Verus — Data Link

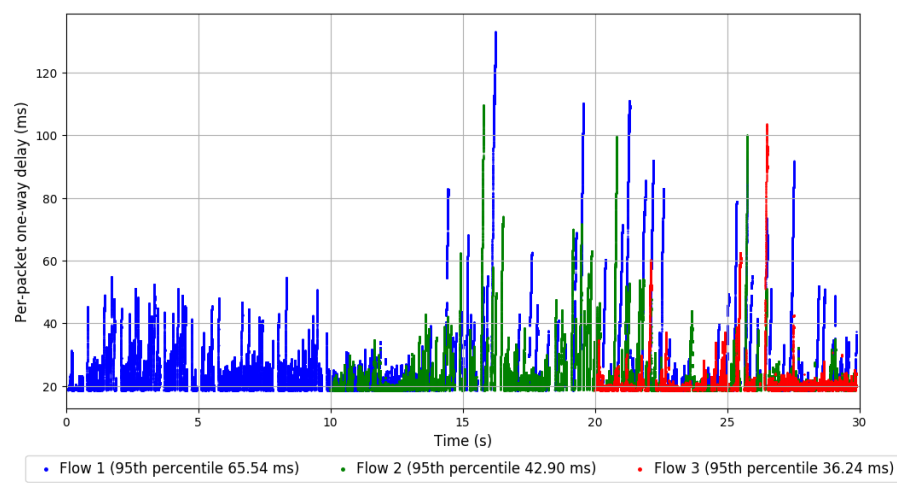
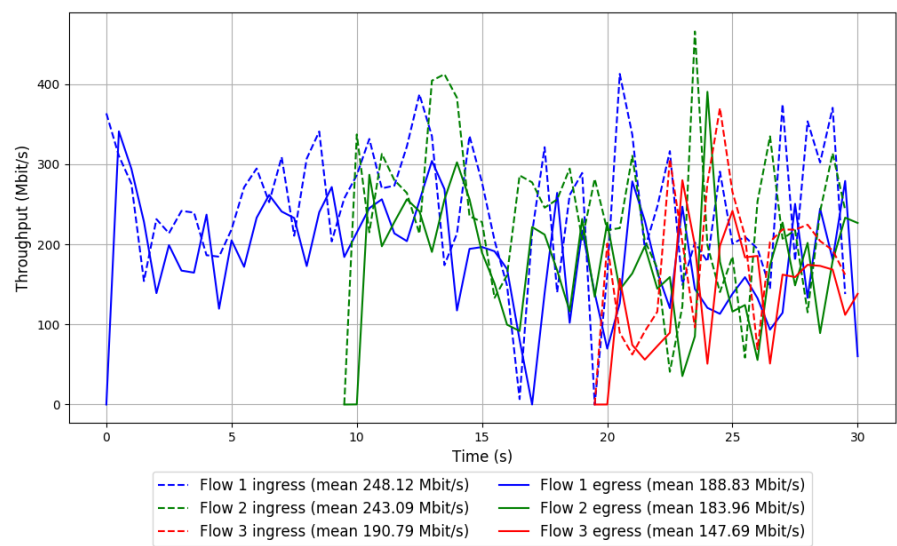


Run 7: Statistics of Verus

Start at: 2018-05-24 16:45:20
End at: 2018-05-24 16:45:50
Local clock offset: 0.204 ms
Remote clock offset: -0.096 ms

Below is generated by plot.py at 2018-05-24 20:34:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 360.59 Mbit/s
95th percentile per-packet one-way delay: 52.890 ms
Loss rate: 23.86%
-- Flow 1:
Average throughput: 188.83 Mbit/s
95th percentile per-packet one-way delay: 65.541 ms
Loss rate: 23.89%
-- Flow 2:
Average throughput: 183.96 Mbit/s
95th percentile per-packet one-way delay: 42.897 ms
Loss rate: 24.32%
-- Flow 3:
Average throughput: 147.69 Mbit/s
95th percentile per-packet one-way delay: 36.240 ms
Loss rate: 22.56%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-05-24 17:11:06

End at: 2018-05-24 17:11:36

Local clock offset: 0.269 ms

Remote clock offset: 0.06 ms

Below is generated by plot.py at 2018-05-24 20:35:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 411.25 Mbit/s

95th percentile per-packet one-way delay: 35.862 ms

Loss rate: 24.77%

-- Flow 1:

Average throughput: 191.15 Mbit/s

95th percentile per-packet one-way delay: 39.553 ms

Loss rate: 24.44%

-- Flow 2:

Average throughput: 232.84 Mbit/s

95th percentile per-packet one-way delay: 27.828 ms

Loss rate: 24.01%

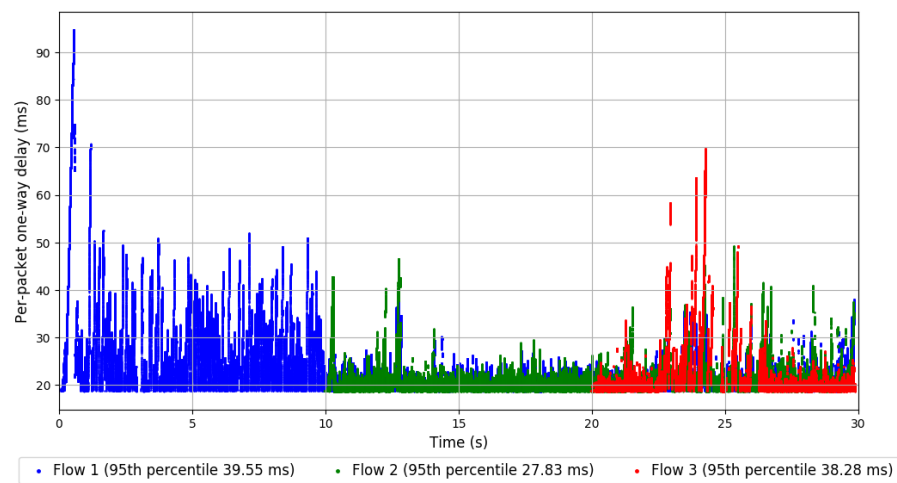
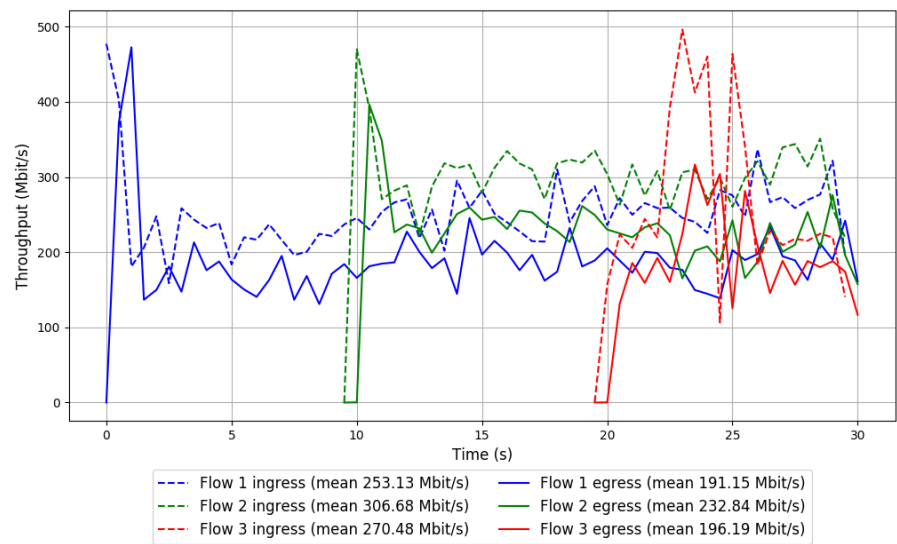
-- Flow 3:

Average throughput: 196.19 Mbit/s

95th percentile per-packet one-way delay: 38.284 ms

Loss rate: 27.46%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-05-24 17:36:58

End at: 2018-05-24 17:37:28

Local clock offset: 0.483 ms

Remote clock offset: 0.241 ms

Below is generated by plot.py at 2018-05-24 20:36:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 427.03 Mbit/s

95th percentile per-packet one-way delay: 31.101 ms

Loss rate: 25.03%

-- Flow 1:

Average throughput: 207.21 Mbit/s

95th percentile per-packet one-way delay: 32.803 ms

Loss rate: 20.54%

-- Flow 2:

Average throughput: 243.41 Mbit/s

95th percentile per-packet one-way delay: 28.388 ms

Loss rate: 28.62%

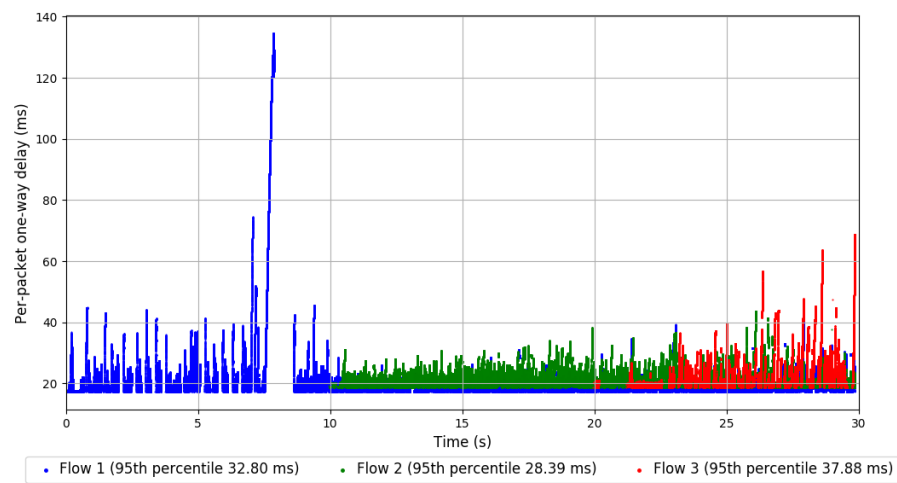
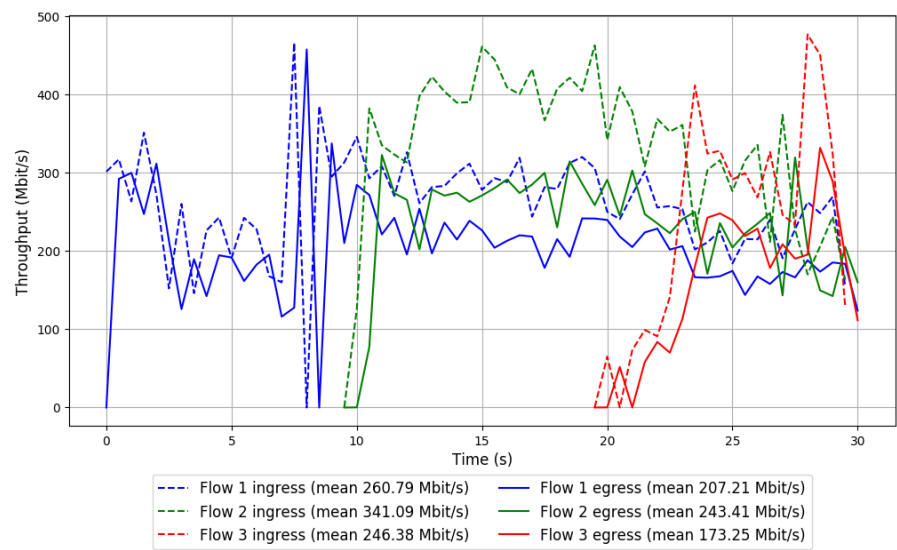
-- Flow 3:

Average throughput: 173.25 Mbit/s

95th percentile per-packet one-way delay: 37.876 ms

Loss rate: 29.33%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-05-24 18:02:40

End at: 2018-05-24 18:03:10

Local clock offset: 0.576 ms

Remote clock offset: 0.191 ms

Below is generated by plot.py at 2018-05-24 20:36:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 396.44 Mbit/s

95th percentile per-packet one-way delay: 40.057 ms

Loss rate: 23.47%

-- Flow 1:

Average throughput: 212.81 Mbit/s

95th percentile per-packet one-way delay: 54.289 ms

Loss rate: 25.21%

-- Flow 2:

Average throughput: 209.20 Mbit/s

95th percentile per-packet one-way delay: 28.275 ms

Loss rate: 20.64%

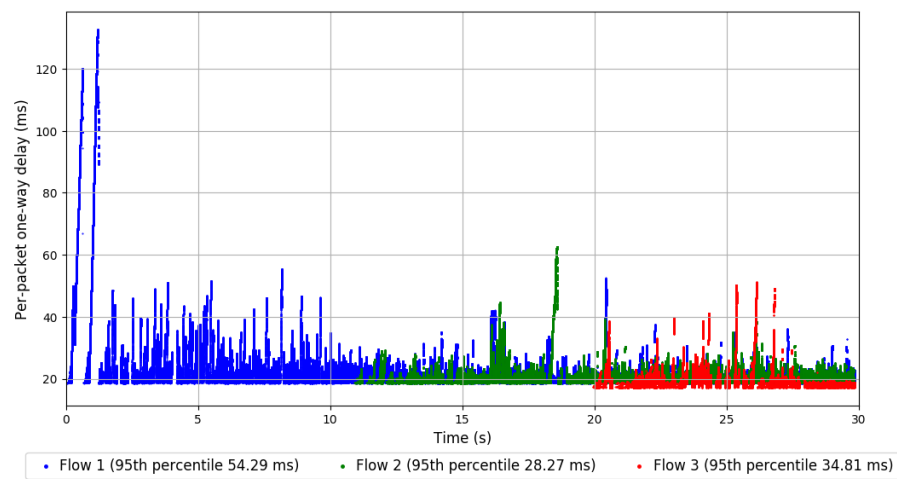
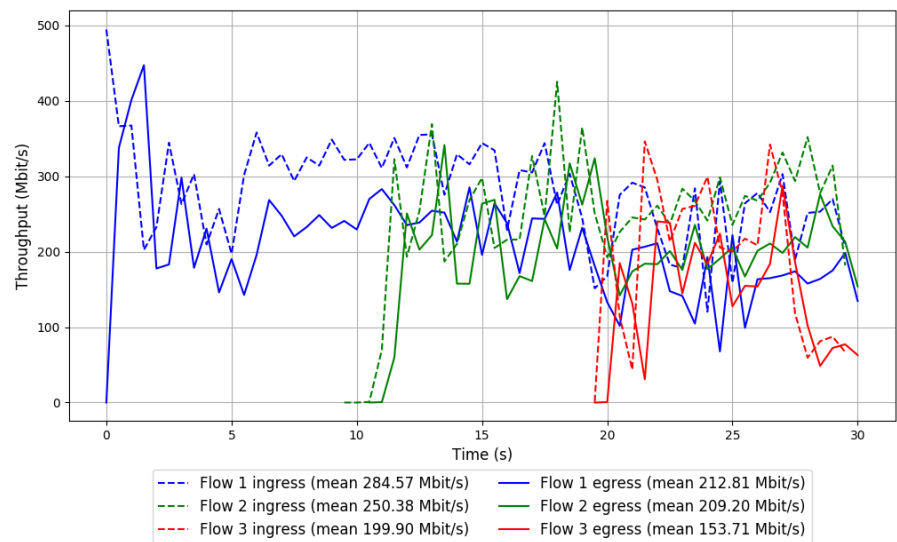
-- Flow 3:

Average throughput: 153.71 Mbit/s

95th percentile per-packet one-way delay: 34.808 ms

Loss rate: 23.11%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-05-24 14:03:18

End at: 2018-05-24 14:03:48

Local clock offset: 0.253 ms

Remote clock offset: 0.133 ms

Below is generated by plot.py at 2018-05-24 20:38:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 569.17 Mbit/s

95th percentile per-packet one-way delay: 19.564 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 345.29 Mbit/s

95th percentile per-packet one-way delay: 18.823 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 303.20 Mbit/s

95th percentile per-packet one-way delay: 21.751 ms

Loss rate: 0.27%

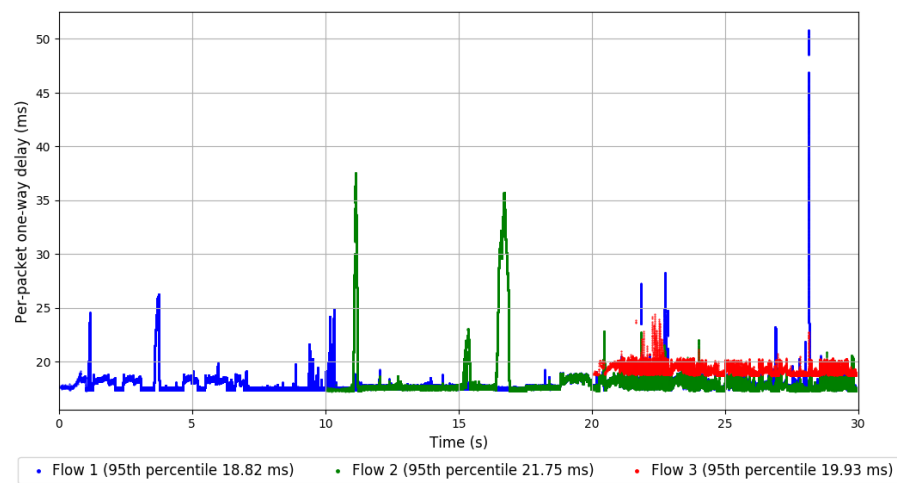
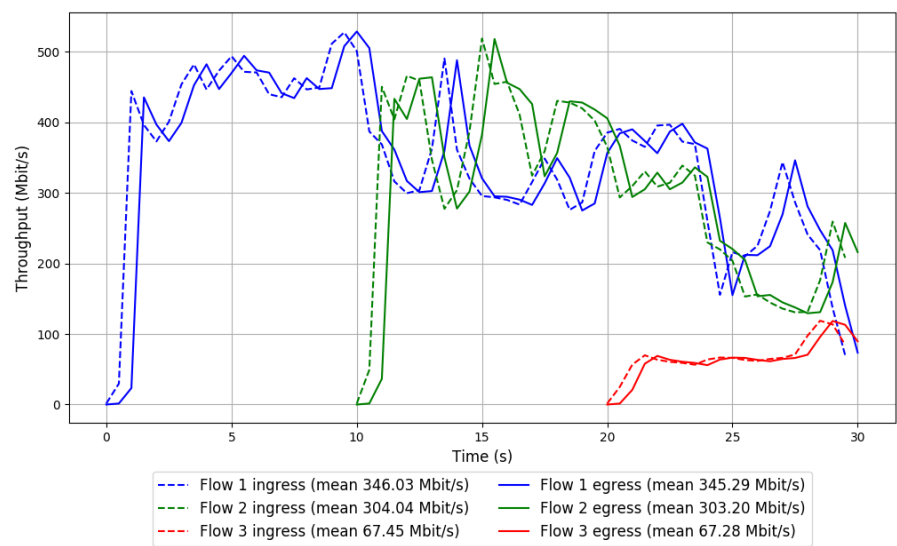
-- Flow 3:

Average throughput: 67.28 Mbit/s

95th percentile per-packet one-way delay: 19.928 ms

Loss rate: 0.26%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-05-24 14:29:14

End at: 2018-05-24 14:29:44

Local clock offset: 0.523 ms

Remote clock offset: 0.608 ms

Below is generated by plot.py at 2018-05-24 20:39:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 632.81 Mbit/s

95th percentile per-packet one-way delay: 26.341 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 339.41 Mbit/s

95th percentile per-packet one-way delay: 18.325 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 312.28 Mbit/s

95th percentile per-packet one-way delay: 26.165 ms

Loss rate: 0.63%

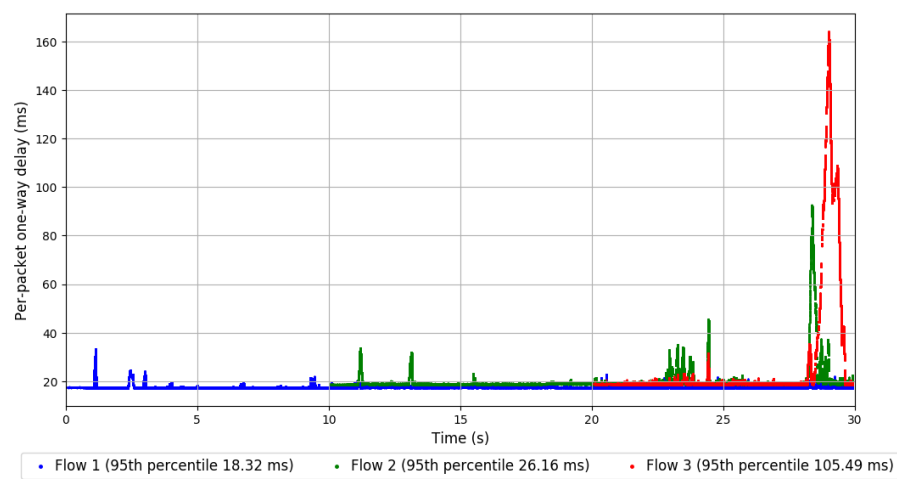
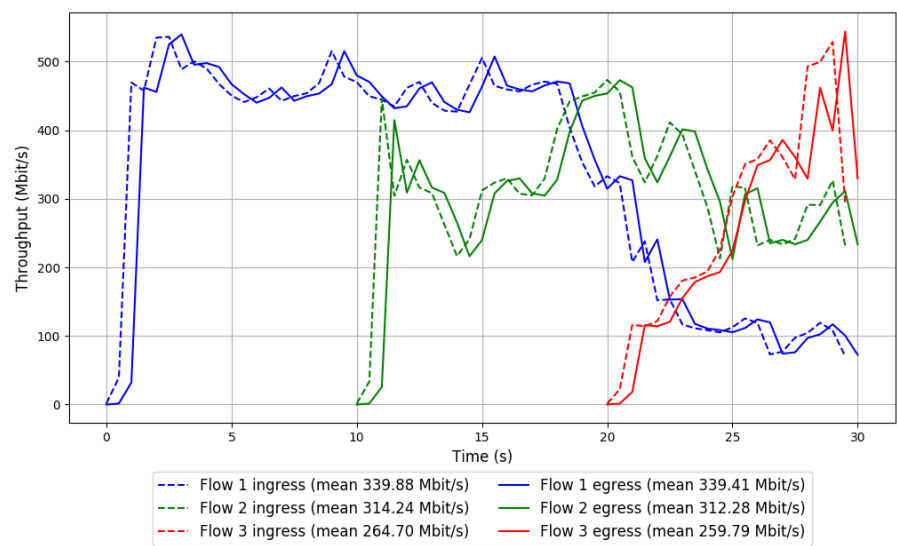
-- Flow 3:

Average throughput: 259.79 Mbit/s

95th percentile per-packet one-way delay: 105.493 ms

Loss rate: 1.87%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-05-24 14:55:16

End at: 2018-05-24 14:55:46

Local clock offset: 0.189 ms

Remote clock offset: 1.137 ms

Below is generated by plot.py at 2018-05-24 20:39:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 557.78 Mbit/s

95th percentile per-packet one-way delay: 20.413 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 383.88 Mbit/s

95th percentile per-packet one-way delay: 23.754 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 220.55 Mbit/s

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

Loss rate: 0.14%

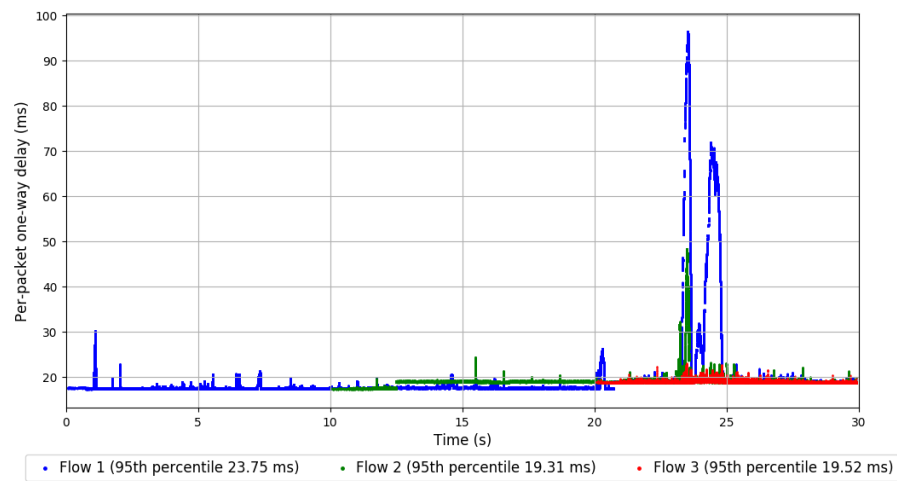
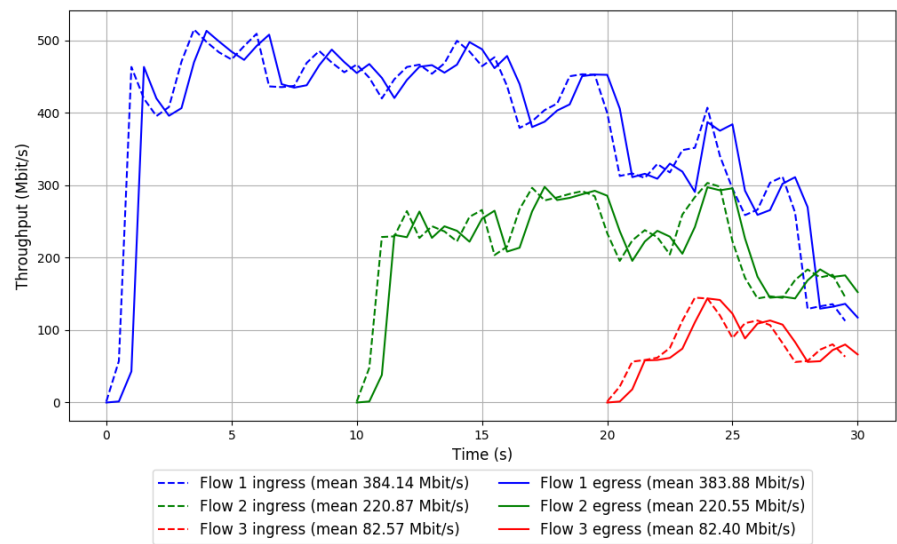
-- Flow 3:

Average throughput: 82.40 Mbit/s

95th percentile per-packet one-way delay: 19.521 ms

Loss rate: 0.20%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-05-24 15:21:25

End at: 2018-05-24 15:21:55

Local clock offset: 0.158 ms

Remote clock offset: 0.692 ms

Below is generated by plot.py at 2018-05-24 20:40:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 579.08 Mbit/s

95th percentile per-packet one-way delay: 20.206 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 350.18 Mbit/s

95th percentile per-packet one-way delay: 20.078 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 295.44 Mbit/s

95th percentile per-packet one-way delay: 24.050 ms

Loss rate: 0.40%

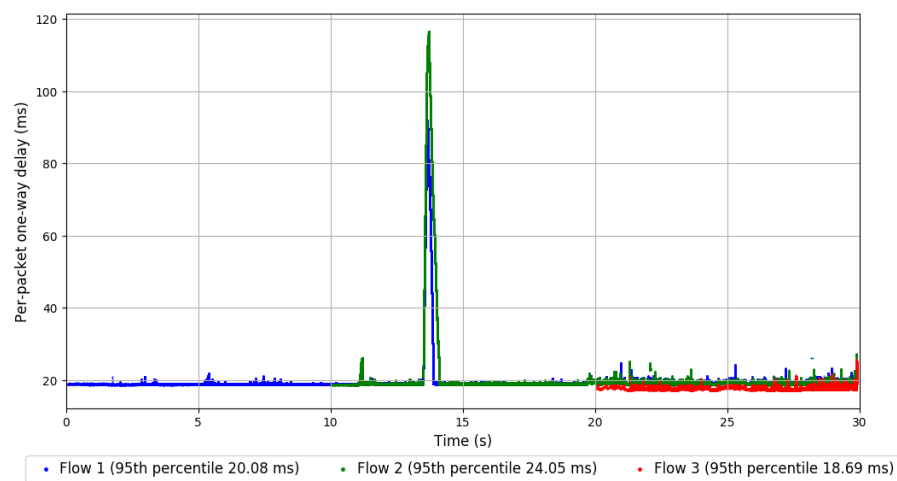
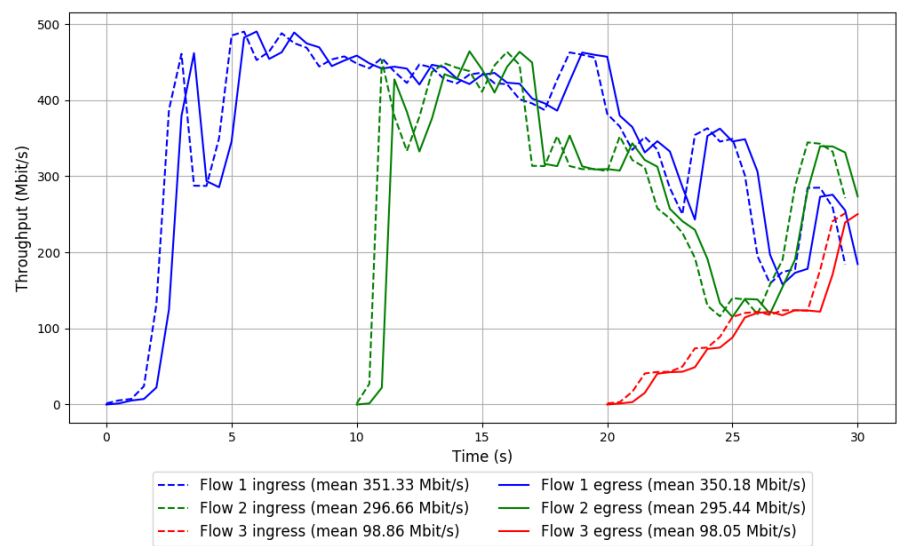
-- Flow 3:

Average throughput: 98.05 Mbit/s

95th percentile per-packet one-way delay: 18.687 ms

Loss rate: 0.80%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-05-24 15:47:06

End at: 2018-05-24 15:47:36

Local clock offset: 0.401 ms

Remote clock offset: 0.31 ms

Below is generated by plot.py at 2018-05-24 20:41:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 508.79 Mbit/s

95th percentile per-packet one-way delay: 19.751 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 363.69 Mbit/s

95th percentile per-packet one-way delay: 18.588 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 162.50 Mbit/s

95th percentile per-packet one-way delay: 19.985 ms

Loss rate: 0.12%

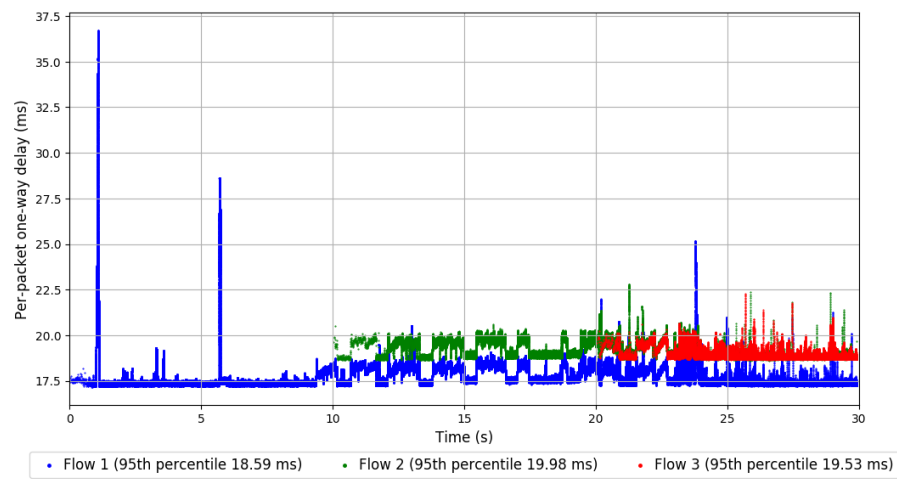
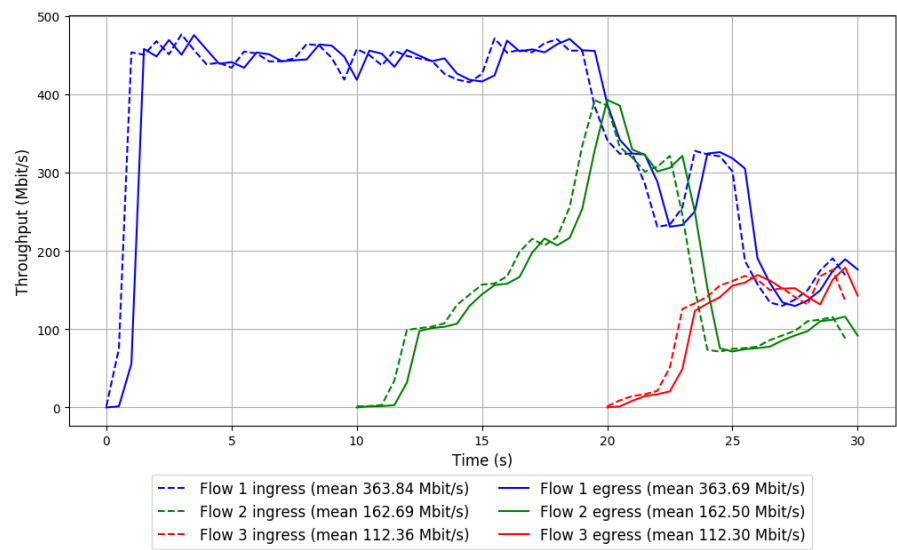
-- Flow 3:

Average throughput: 112.30 Mbit/s

95th percentile per-packet one-way delay: 19.527 ms

Loss rate: 0.08%

Run 5: Report of PCC-Vivace — Data Link

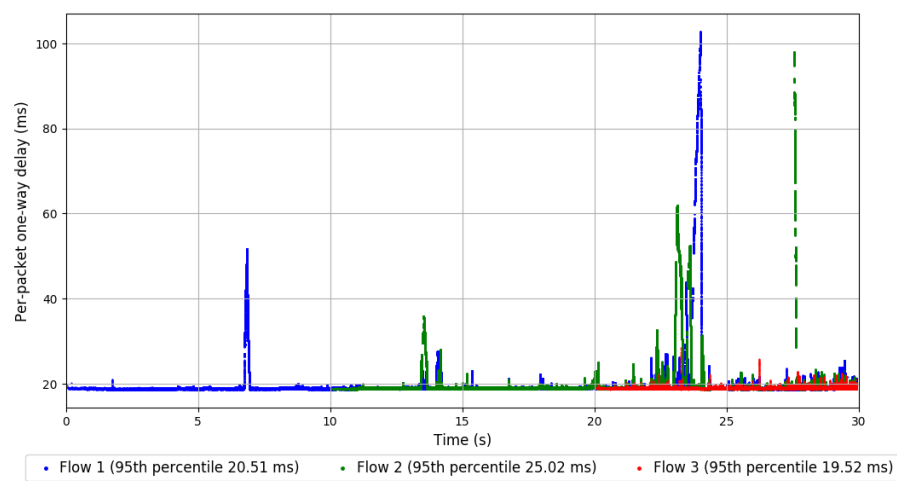
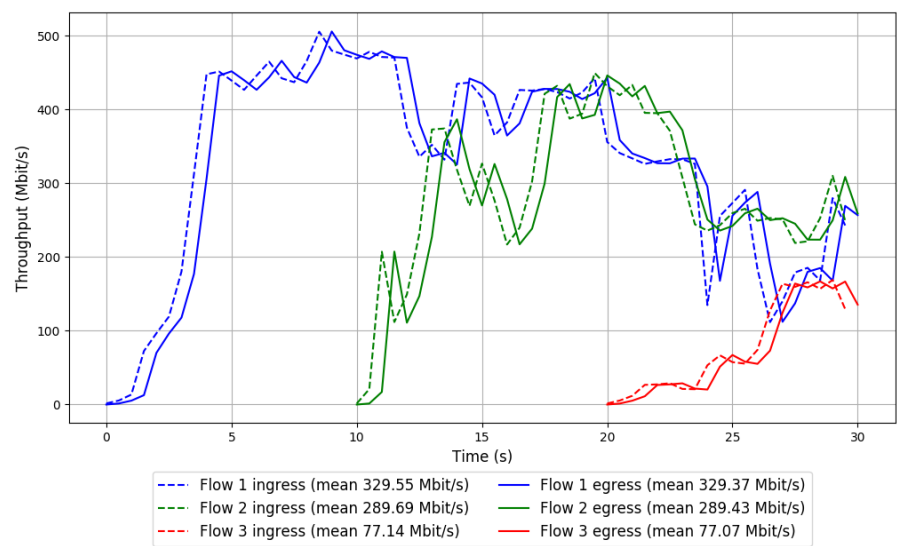


Run 6: Statistics of PCC-Vivace

Start at: 2018-05-24 16:12:58
End at: 2018-05-24 16:13:28
Local clock offset: 0.199 ms
Remote clock offset: -0.129 ms

Below is generated by plot.py at 2018-05-24 20:42:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 547.08 Mbit/s
95th percentile per-packet one-way delay: 21.542 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 329.37 Mbit/s
95th percentile per-packet one-way delay: 20.511 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 289.43 Mbit/s
95th percentile per-packet one-way delay: 25.025 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 77.07 Mbit/s
95th percentile per-packet one-way delay: 19.516 ms
Loss rate: 0.08%

Run 6: Report of PCC-Vivace — Data Link

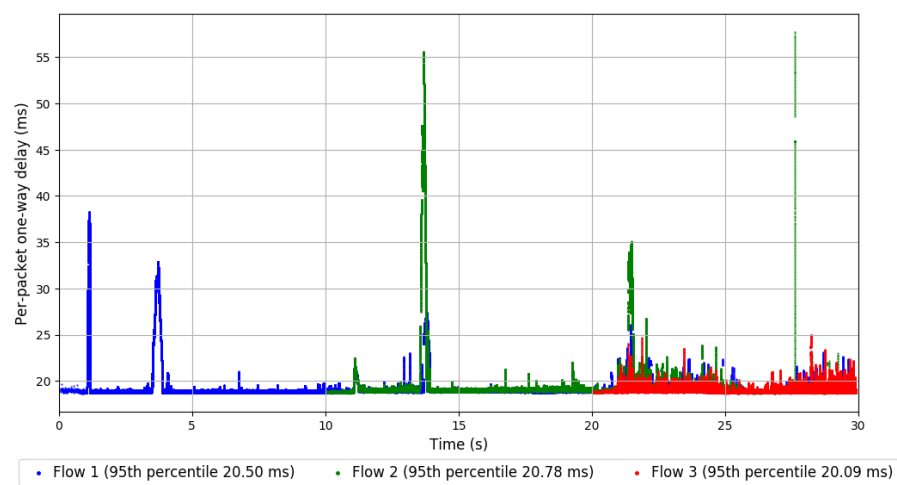
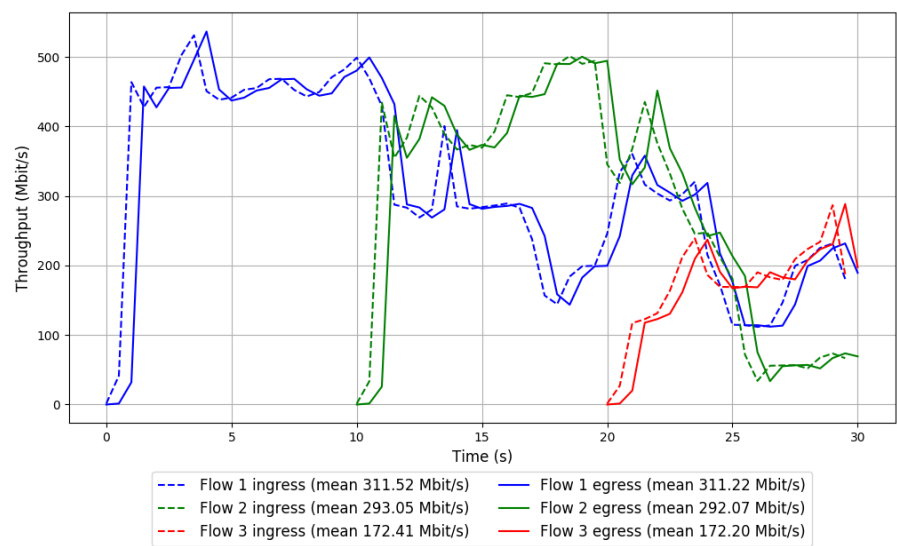


Run 7: Statistics of PCC-Vivace

Start at: 2018-05-24 16:38:40
End at: 2018-05-24 16:39:10
Local clock offset: 0.184 ms
Remote clock offset: -0.006 ms

Below is generated by plot.py at 2018-05-24 20:42:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 562.41 Mbit/s
95th percentile per-packet one-way delay: 20.497 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 311.22 Mbit/s
95th percentile per-packet one-way delay: 20.502 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 292.07 Mbit/s
95th percentile per-packet one-way delay: 20.776 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 172.20 Mbit/s
95th percentile per-packet one-way delay: 20.091 ms
Loss rate: 0.12%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-05-24 17:04:21

End at: 2018-05-24 17:04:51

Local clock offset: 0.156 ms

Remote clock offset: 0.113 ms

Below is generated by plot.py at 2018-05-24 20:42:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 541.75 Mbit/s

95th percentile per-packet one-way delay: 19.858 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 349.13 Mbit/s

95th percentile per-packet one-way delay: 20.140 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 247.84 Mbit/s

95th percentile per-packet one-way delay: 19.651 ms

Loss rate: 0.12%

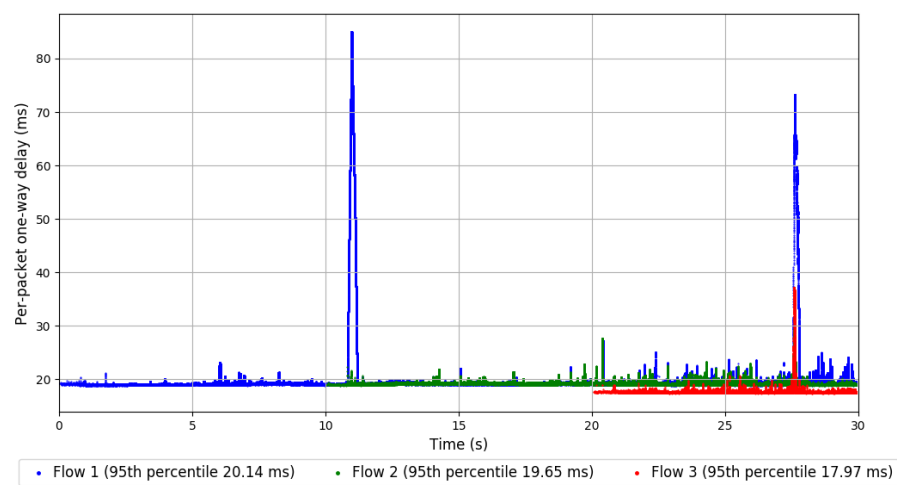
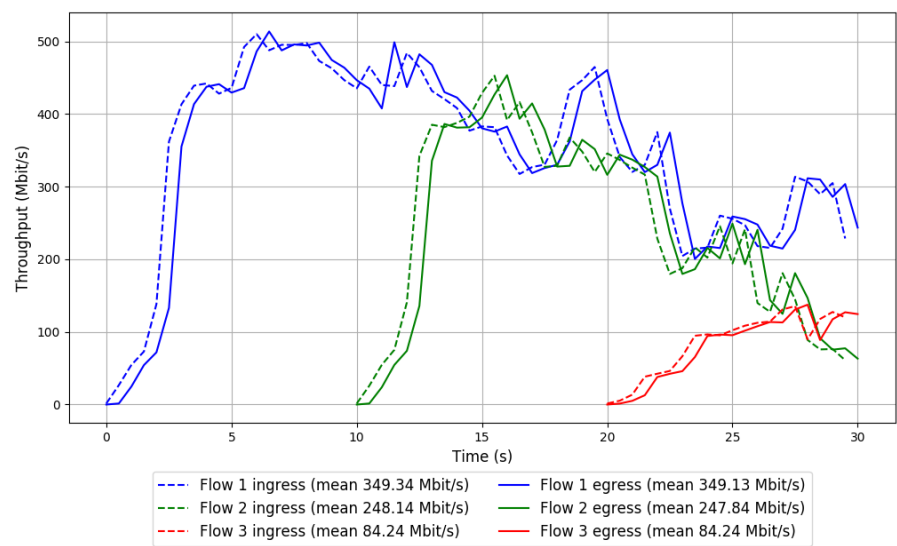
-- Flow 3:

Average throughput: 84.24 Mbit/s

95th percentile per-packet one-way delay: 17.966 ms

Loss rate: 0.00%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-05-24 17:30:14

End at: 2018-05-24 17:30:44

Local clock offset: 0.27 ms

Remote clock offset: 0.155 ms

Below is generated by plot.py at 2018-05-24 20:43:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 592.89 Mbit/s

95th percentile per-packet one-way delay: 19.596 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 366.17 Mbit/s

95th percentile per-packet one-way delay: 19.658 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 296.81 Mbit/s

95th percentile per-packet one-way delay: 19.595 ms

Loss rate: 0.15%

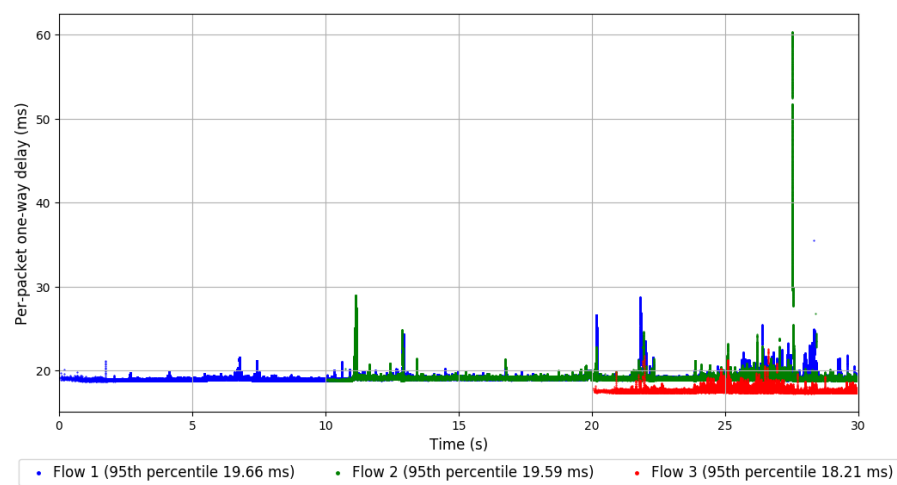
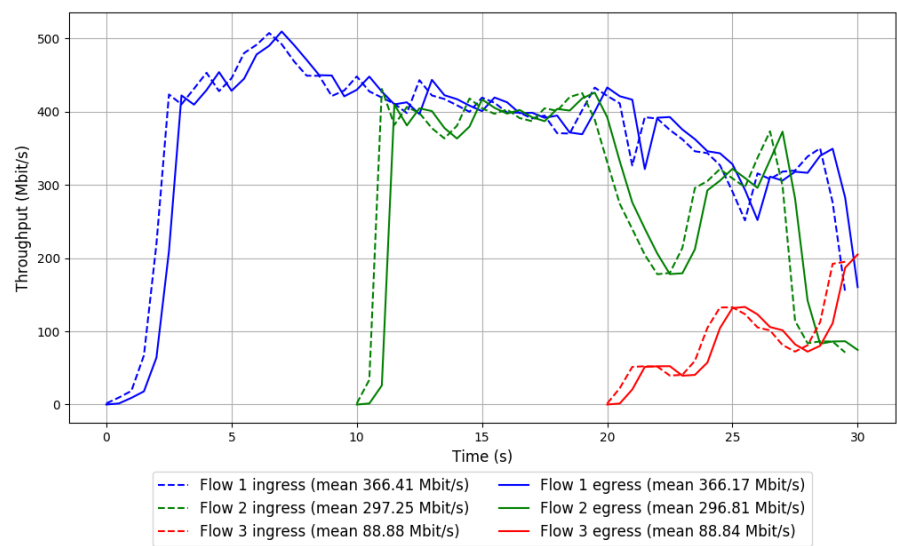
-- Flow 3:

Average throughput: 88.84 Mbit/s

95th percentile per-packet one-way delay: 18.211 ms

Loss rate: 0.04%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-05-24 17:55:41

End at: 2018-05-24 17:56:11

Local clock offset: 0.556 ms

Remote clock offset: 0.273 ms

Below is generated by plot.py at 2018-05-24 20:43:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 602.23 Mbit/s

95th percentile per-packet one-way delay: 25.688 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 374.60 Mbit/s

95th percentile per-packet one-way delay: 24.957 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 314.29 Mbit/s

95th percentile per-packet one-way delay: 31.949 ms

Loss rate: 0.54%

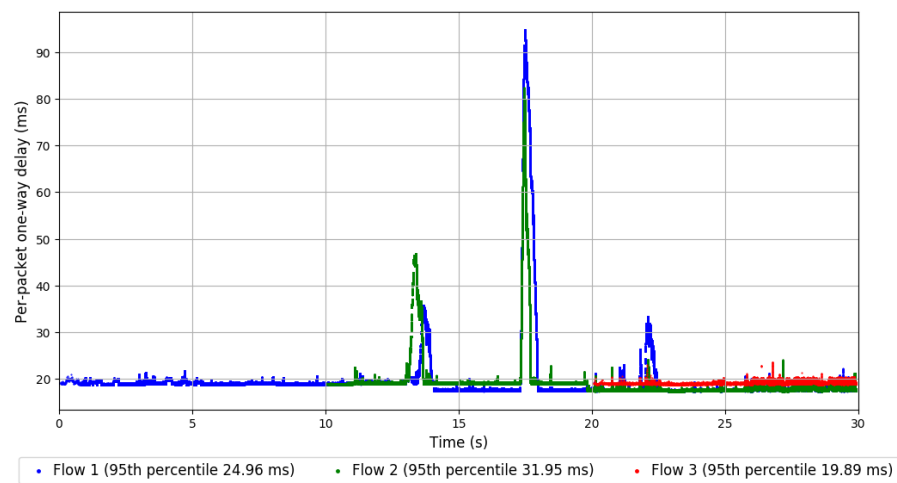
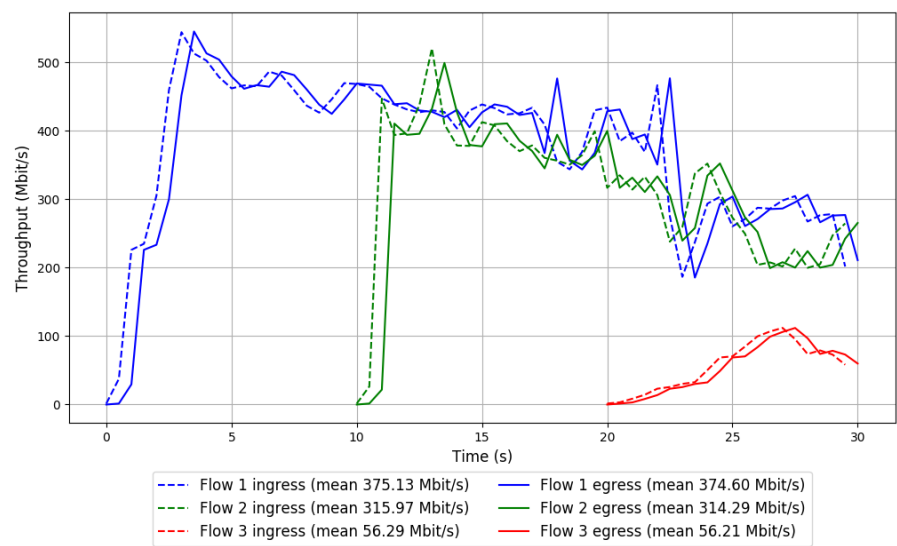
-- Flow 3:

Average throughput: 56.21 Mbit/s

95th percentile per-packet one-way delay: 19.886 ms

Loss rate: 0.21%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-05-24 14:08:55

End at: 2018-05-24 14:09:25

Local clock offset: 0.343 ms

Remote clock offset: 0.304 ms

Below is generated by plot.py at 2018-05-24 20:43:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 22.047 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 21.303 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 22.377 ms

Loss rate: 0.00%

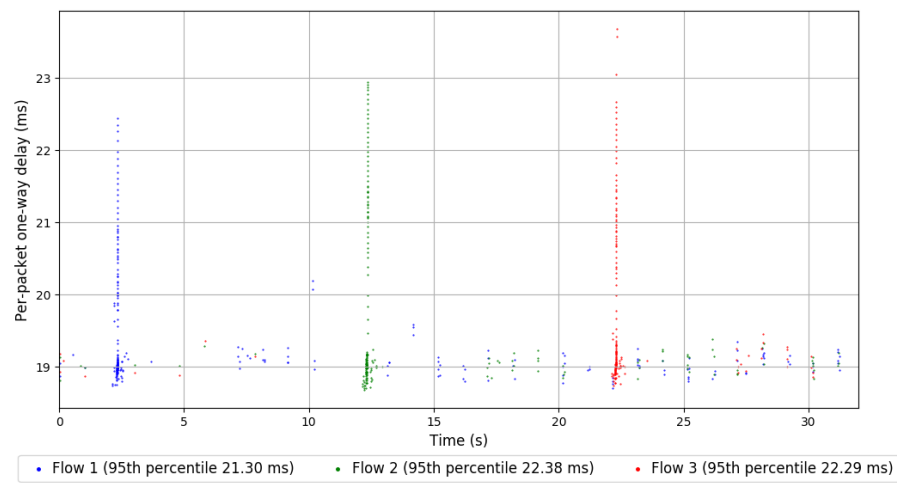
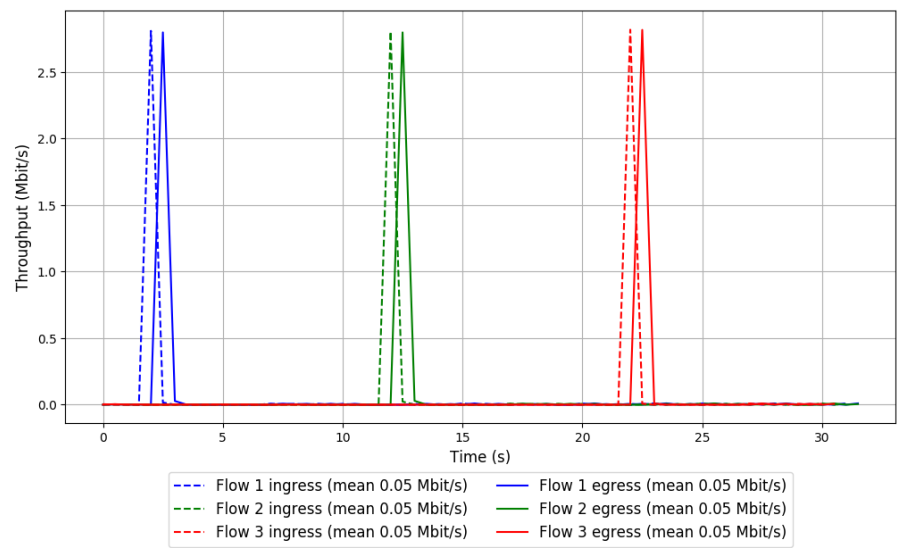
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 22.293 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-05-24 14:34:57

End at: 2018-05-24 14:35:27

Local clock offset: 0.369 ms

Remote clock offset: 0.773 ms

Below is generated by plot.py at 2018-05-24 20:43:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 19.971 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 20.399 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 17.897 ms

Loss rate: 0.00%

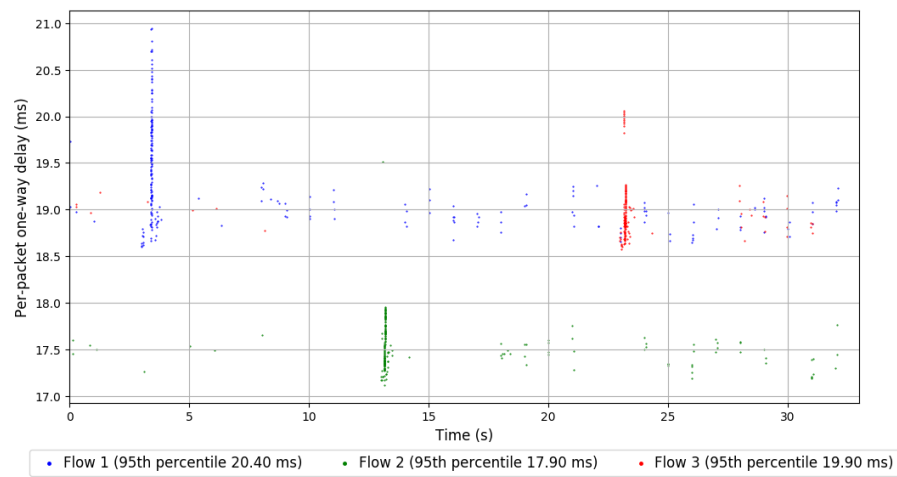
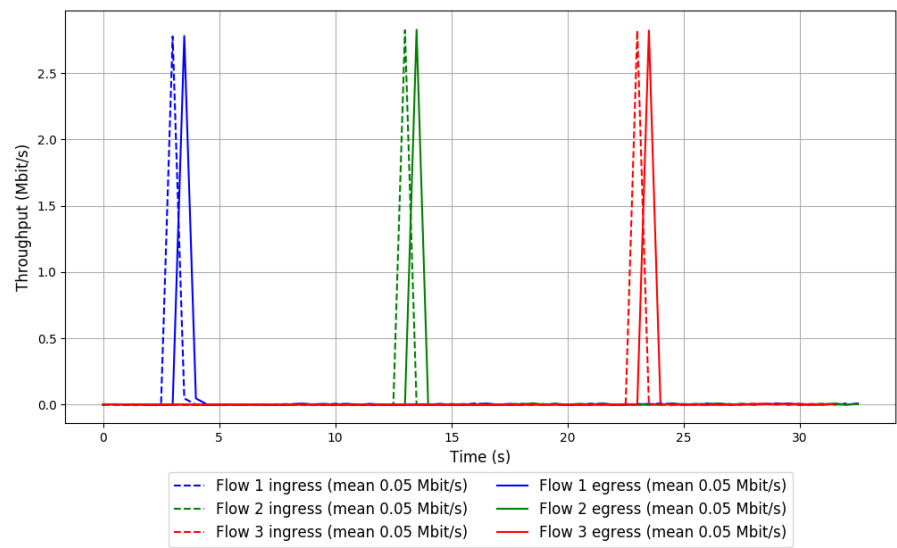
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 19.897 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-05-24 15:00:48

End at: 2018-05-24 15:01:18

Local clock offset: 0.161 ms

Remote clock offset: 1.283 ms

Below is generated by plot.py at 2018-05-24 20:43:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 19.718 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 19.718 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 20.260 ms

Loss rate: 0.00%

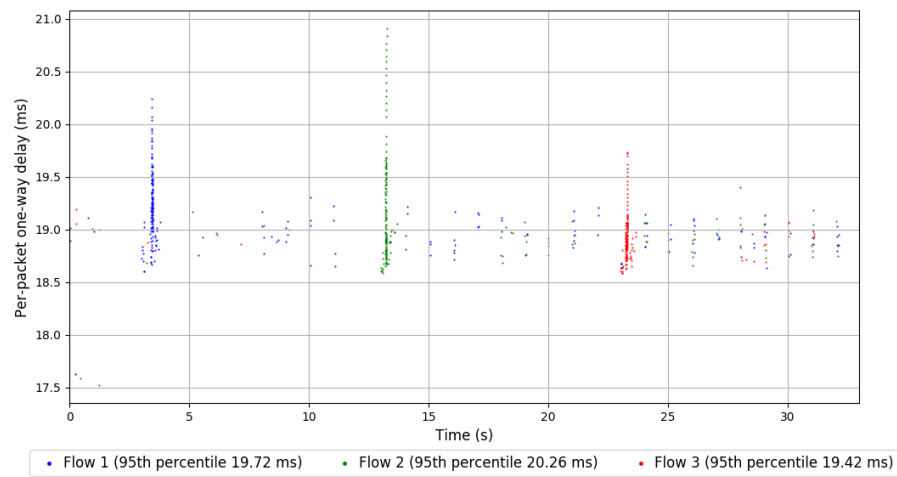
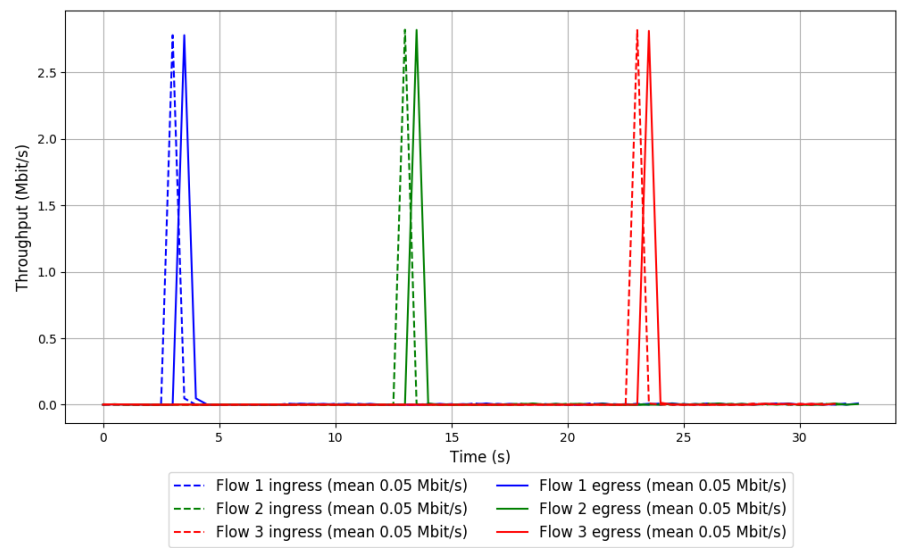
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 19.422 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-05-24 15:26:50

End at: 2018-05-24 15:27:20

Local clock offset: 0.161 ms

Remote clock offset: 0.665 ms

Below is generated by plot.py at 2018-05-24 20:43:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 20.124 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 21.260 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

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

Loss rate: 0.00%

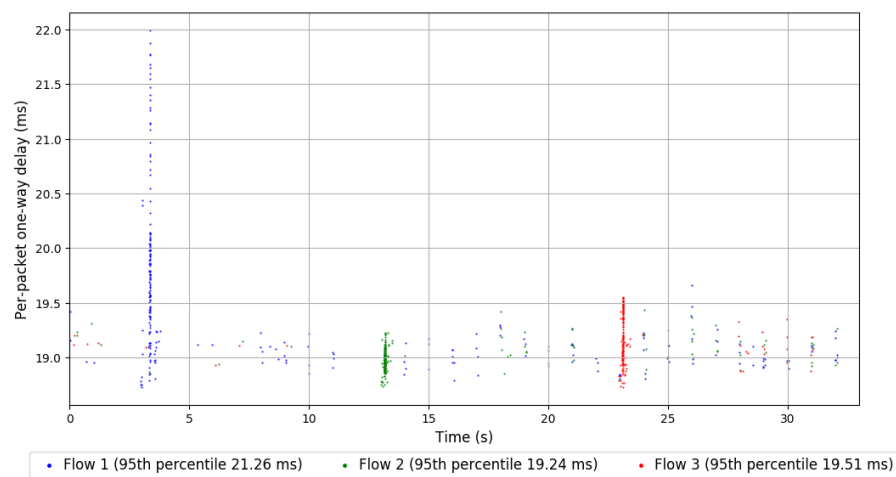
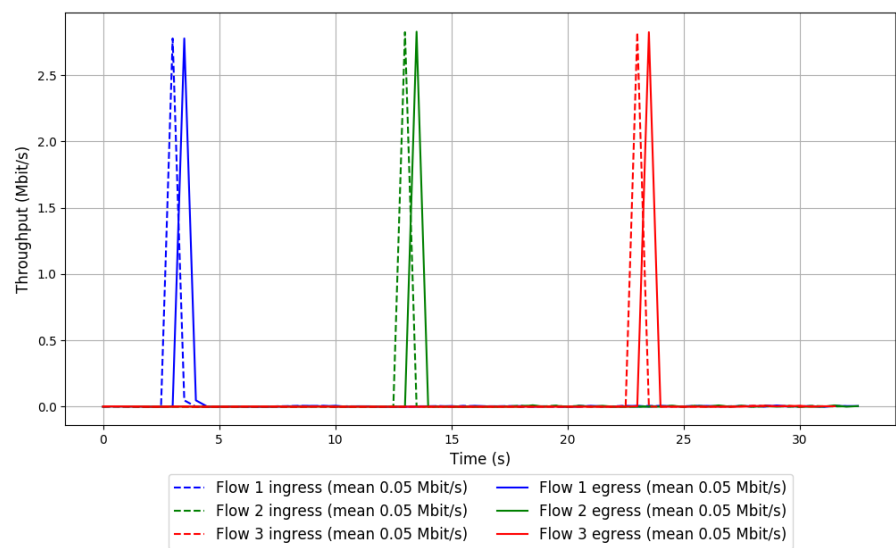
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 19.509 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-05-24 15:52:28

End at: 2018-05-24 15:52:58

Local clock offset: 0.406 ms

Remote clock offset: 0.12 ms

Below is generated by plot.py at 2018-05-24 20:43:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 21.842 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 20.748 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 17.880 ms

Loss rate: 0.00%

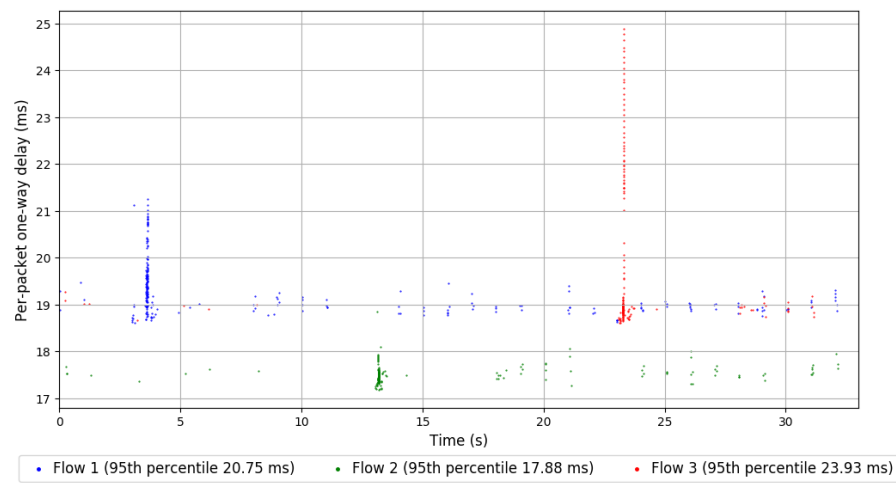
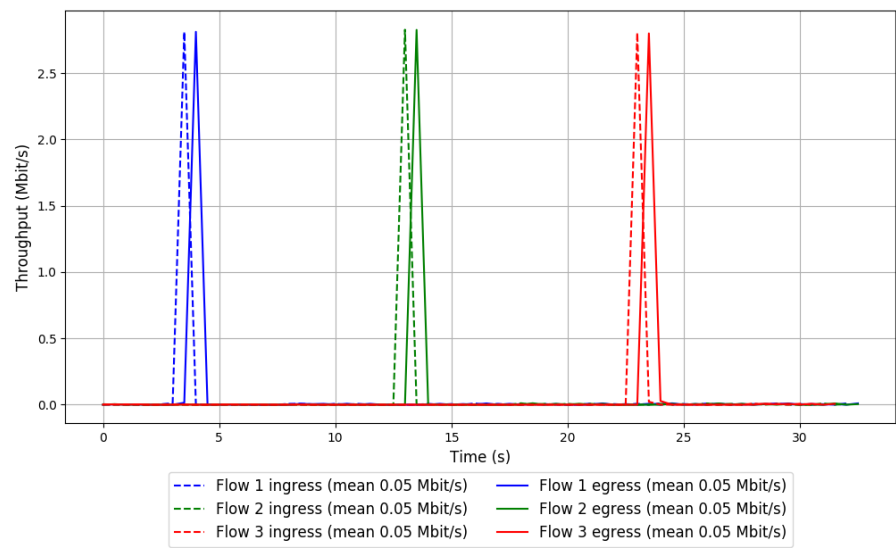
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 23.929 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

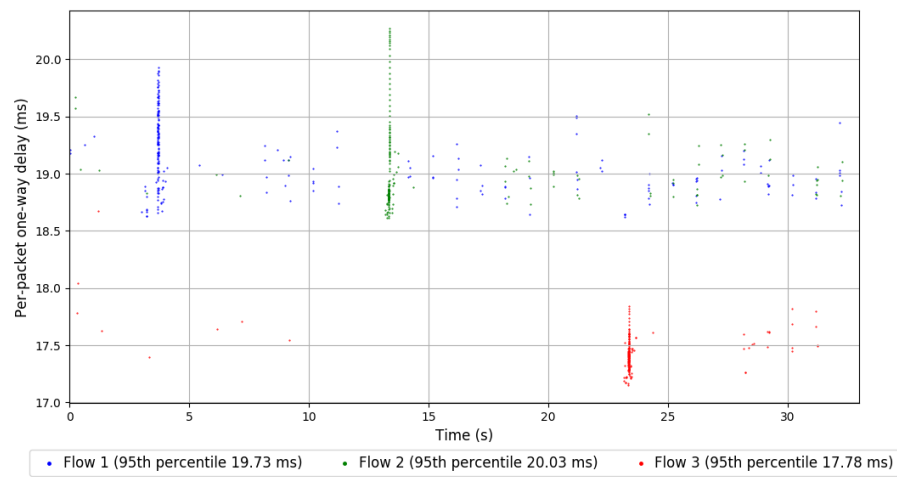
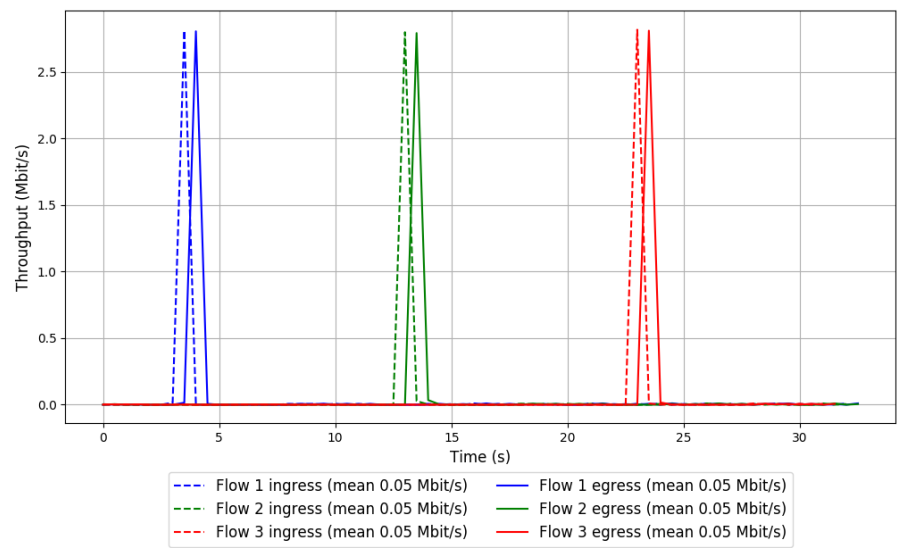


Run 6: Statistics of WebRTC media

Start at: 2018-05-24 16:18:30
End at: 2018-05-24 16:19:00
Local clock offset: 0.183 ms
Remote clock offset: -0.127 ms

Below is generated by plot.py at 2018-05-24 20:43:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 19.699 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 19.725 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 20.031 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 17.777 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

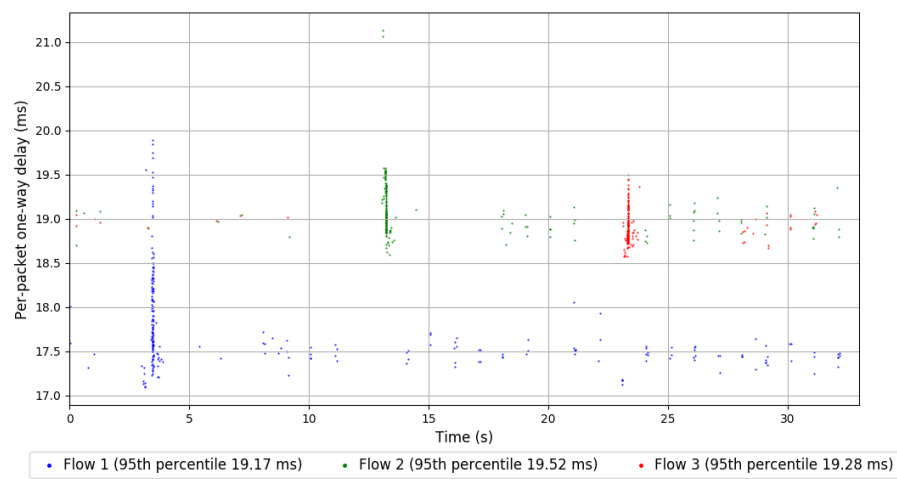
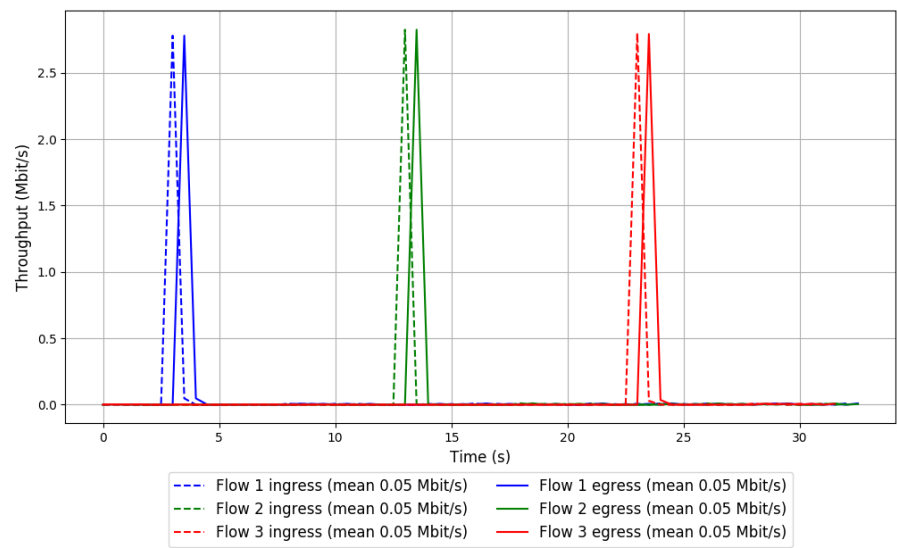


Run 7: Statistics of WebRTC media

Start at: 2018-05-24 16:44:01
End at: 2018-05-24 16:44:31
Local clock offset: 0.194 ms
Remote clock offset: -0.092 ms

Below is generated by plot.py at 2018-05-24 20:43:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 19.442 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 19.166 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 19.522 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 19.280 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-05-24 17:09:48

End at: 2018-05-24 17:10:18

Local clock offset: 0.272 ms

Remote clock offset: 0.117 ms

Below is generated by plot.py at 2018-05-24 20:43:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 21.613 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 21.156 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 19.860 ms

Loss rate: 0.00%

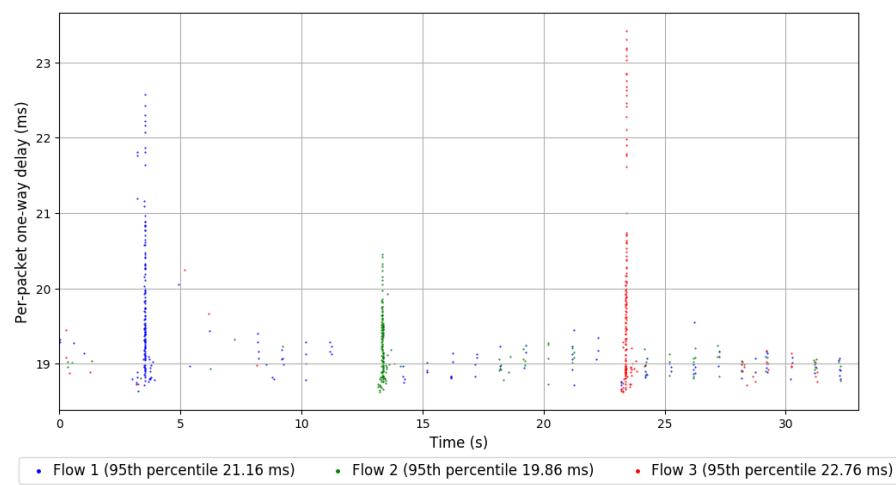
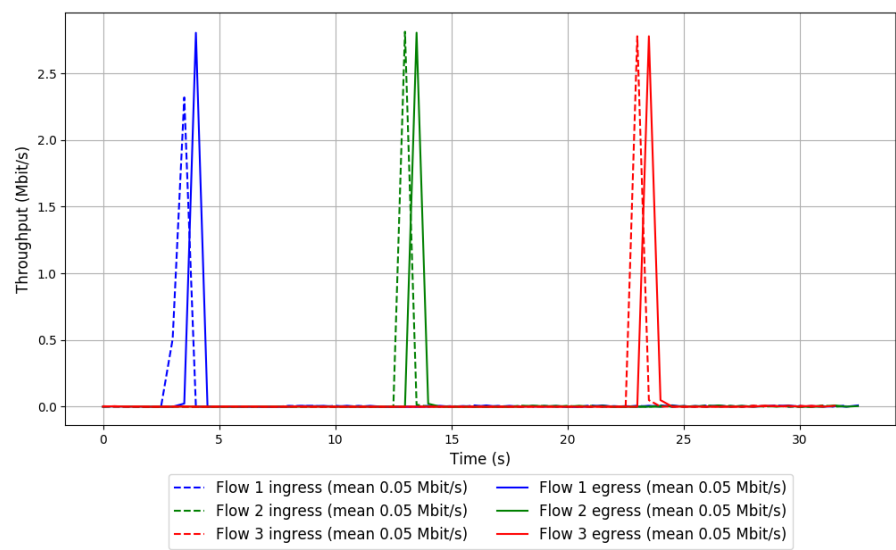
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 22.756 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-05-24 17:35:40

End at: 2018-05-24 17:36:10

Local clock offset: 0.386 ms

Remote clock offset: 0.201 ms

Below is generated by plot.py at 2018-05-24 20:43:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 20.554 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 21.880 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 19.580 ms

Loss rate: 0.00%

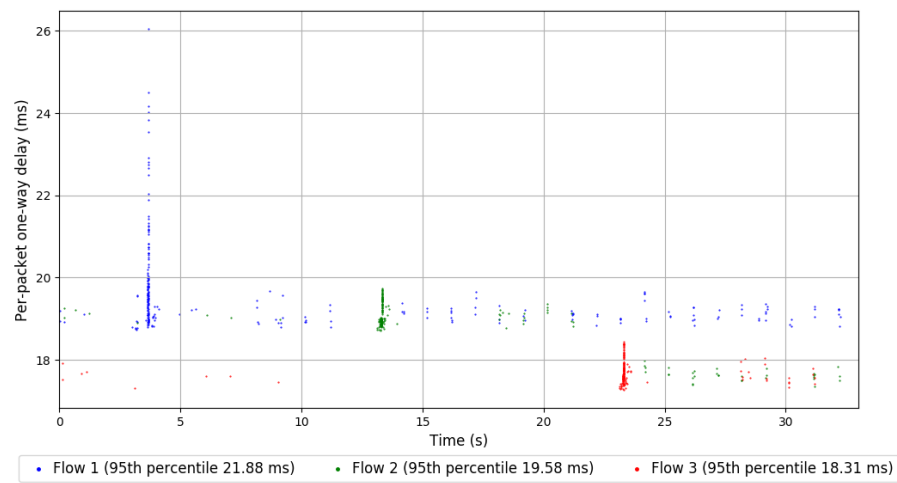
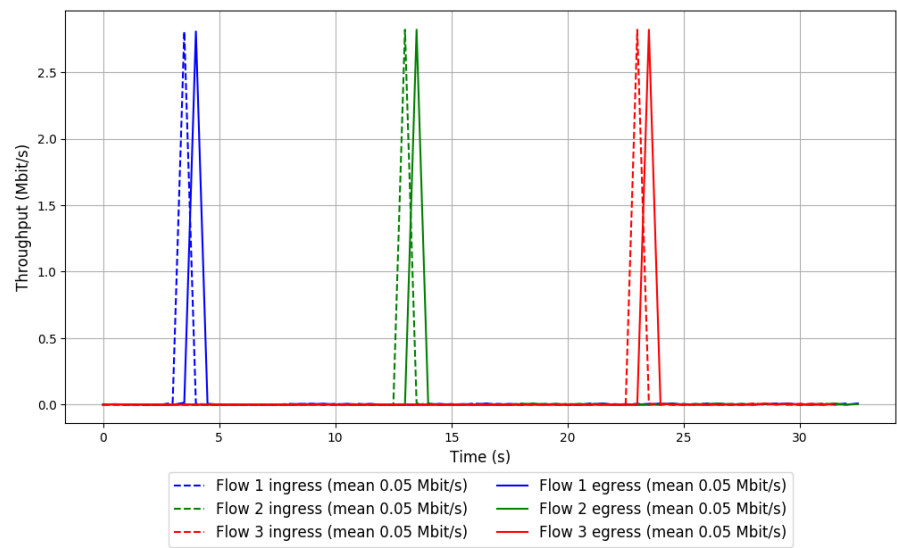
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 18.309 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-24 18:01:21

End at: 2018-05-24 18:01:51

Local clock offset: 0.602 ms

Remote clock offset: 0.275 ms

Below is generated by plot.py at 2018-05-24 20:43:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 22.573 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 22.319 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 17.881 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 24.391 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

