

## Pantheon Report

Generated at 2018-05-22 06:41:20 (UTC).

Data path: AWS India 1 Ethernet (*local*) → India 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.

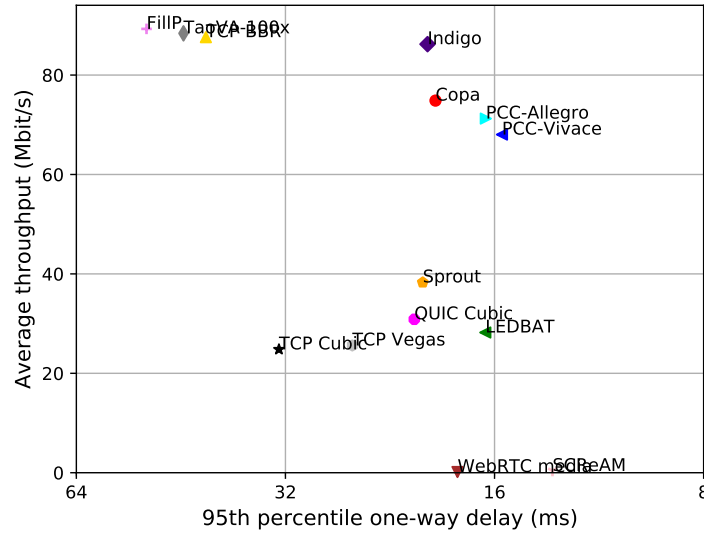
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

NTP offsets were measured against **nets.org.sg** and have been applied to correct the timestamps in logs.

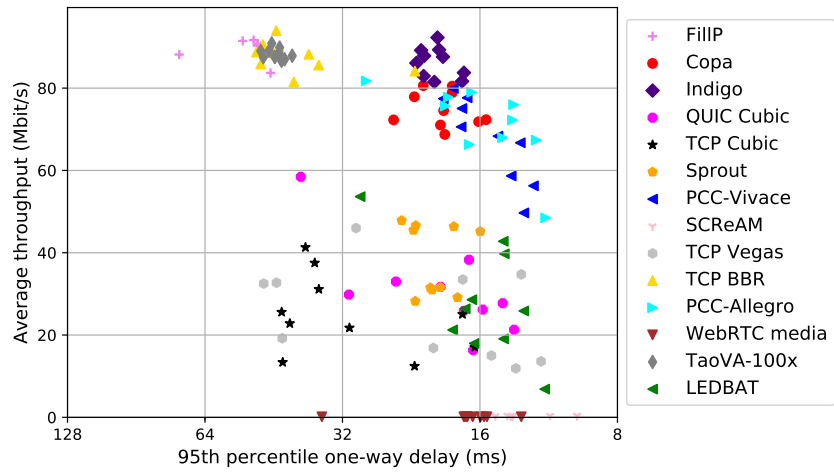
Git summary:

```
branch: master @ 2d1d4407e851ba626e5ca4626a306105793df686
third_party/llnwd @ 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-quick @ 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 India 1 Ethernet to India Ethernet, 10 runs of 30s each per scheme  
3 flows with 10s interval between flows (mean of all runs by scheme)



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



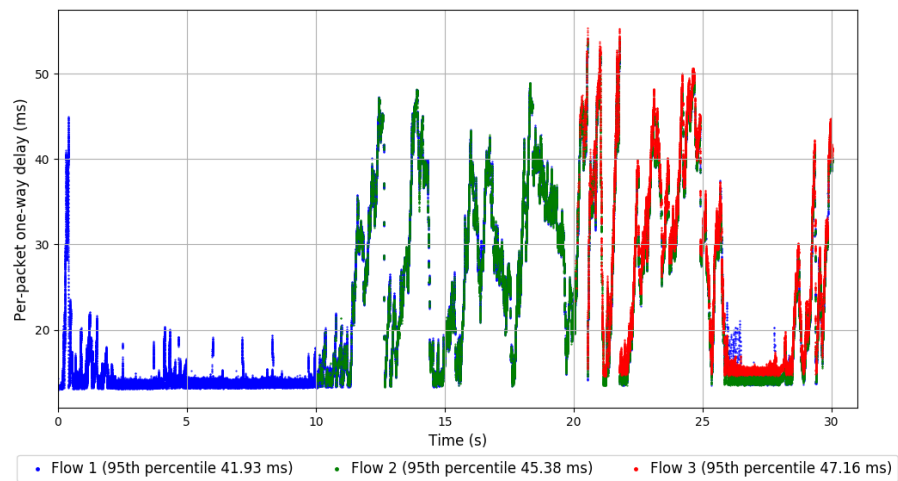
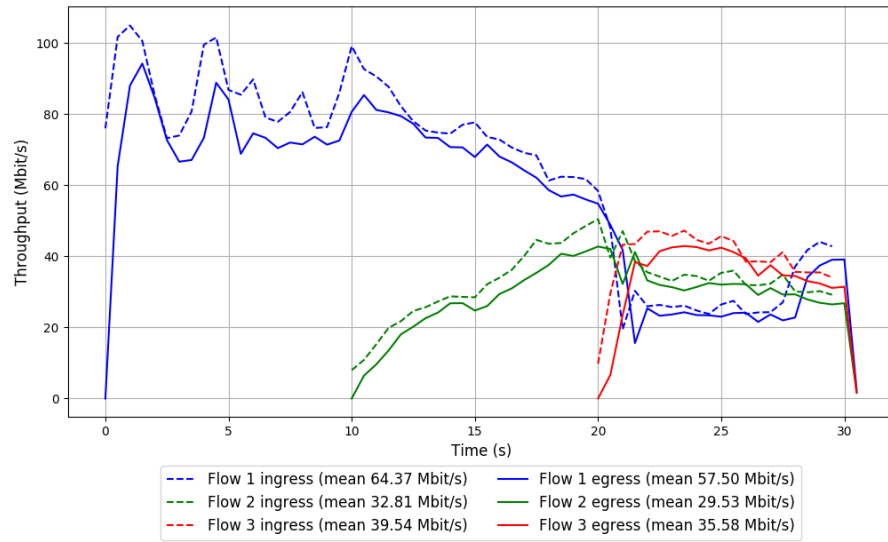
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	56.70	34.20	24.49	40.53	42.52	41.76	11.39	12.68	12.84
Copa	10	44.10	33.87	24.72	19.14	19.56	20.06	8.86	9.65	10.85
TCP Cubic	10	13.14	11.64	11.80	27.94	29.46	29.97	0.82	0.84	1.30
FillP	10	54.50	37.57	29.75	48.89	51.82	52.92	21.79	29.03	30.99
Indigo	10	50.89	36.23	35.32	19.02	20.36	21.76	9.27	10.73	12.56
LEDBAT	10	16.01	12.92	10.91	16.31	16.61	17.02	0.87	0.91	0.97
PCC-Allegro	10	63.76	9.33	3.89	16.14	16.83	17.94	8.89	9.67	9.28
PCC-Expr	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
QUIC Cubic	10	16.26	15.31	13.44	20.29	21.75	20.68	2.20	2.81	3.34
SCReAM	10	0.17	0.17	0.19	13.14	13.02	12.81	0.48	0.42	0.32
Sprout	10	19.37	19.17	18.66	19.97	20.34	20.92	2.31	2.89	3.74
TaoVA-100x	10	53.50	37.12	30.64	40.95	45.95	48.83	14.38	19.04	21.51
TCP Vegas	10	13.54	12.53	11.19	25.26	18.46	20.15	0.96	0.60	0.68
Verus	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PCC-Vivace	10	50.00	23.38	7.60	15.45	15.69	16.83	5.50	6.04	6.68
WebRTC media	10	0.05	0.05	0.05	15.62	18.04	16.36	0.12	0.08	0.08

Run 1: Statistics of TCP BBR

Start at: 2018-05-22 03:26:56  
End at: 2018-05-22 03:27:26  
Local clock offset: -7.986 ms  
Remote clock offset: -3.332 ms

# Below is generated by plot.py at 2018-05-22 06:27:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.02 Mbit/s  
95th percentile per-packet one-way delay: 43.922 ms  
Loss rate: 10.34%  
-- Flow 1:  
Average throughput: 57.50 Mbit/s  
95th percentile per-packet one-way delay: 41.930 ms  
Loss rate: 10.60%  
-- Flow 2:  
Average throughput: 29.53 Mbit/s  
95th percentile per-packet one-way delay: 45.376 ms  
Loss rate: 9.88%  
-- Flow 3:  
Average throughput: 35.58 Mbit/s  
95th percentile per-packet one-way delay: 47.158 ms  
Loss rate: 9.85%

# Run 1: Report of TCP BBR — Data Link

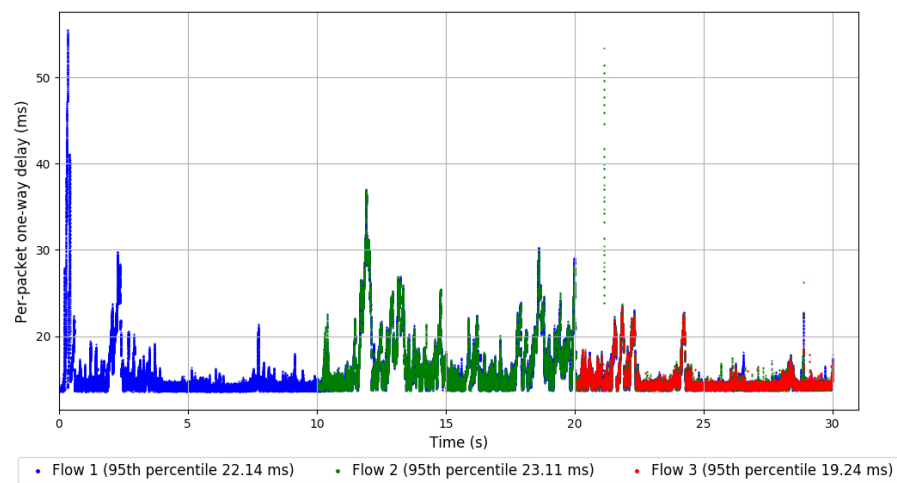
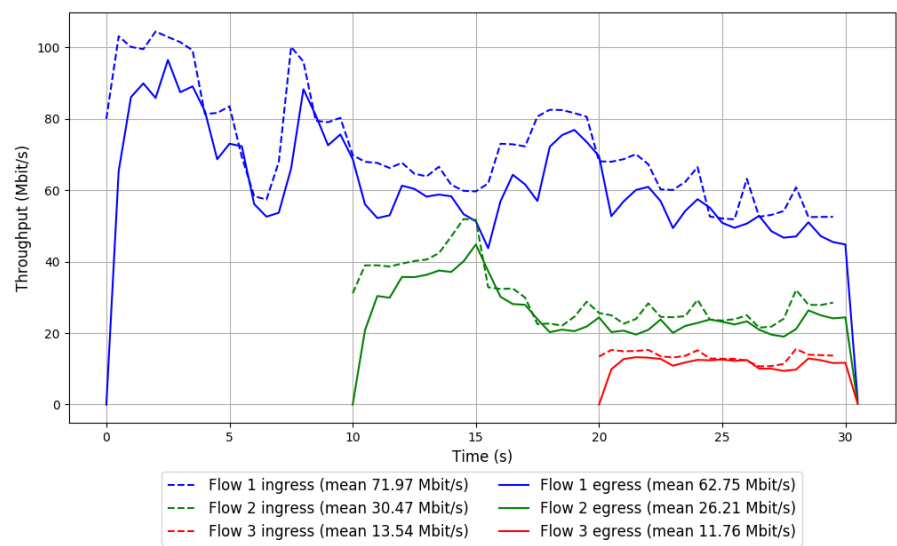


Run 2: Statistics of TCP BBR

Start at: 2018-05-22 03:45:24  
End at: 2018-05-22 03:45:54  
Local clock offset: 1.541 ms  
Remote clock offset: -3.191 ms

# Below is generated by plot.py at 2018-05-22 06:27:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.12 Mbit/s  
95th percentile per-packet one-way delay: 22.205 ms  
Loss rate: 13.07%  
-- Flow 1:  
Average throughput: 62.75 Mbit/s  
95th percentile per-packet one-way delay: 22.137 ms  
Loss rate: 12.81%  
-- Flow 2:  
Average throughput: 26.21 Mbit/s  
95th percentile per-packet one-way delay: 23.111 ms  
Loss rate: 13.98%  
-- Flow 3:  
Average throughput: 11.76 Mbit/s  
95th percentile per-packet one-way delay: 19.237 ms  
Loss rate: 13.12%

Run 2: Report of TCP BBR — Data Link

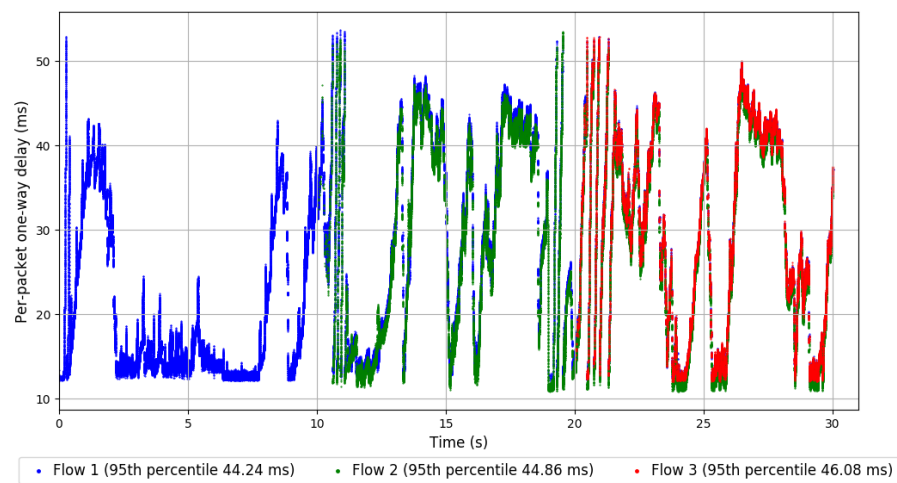
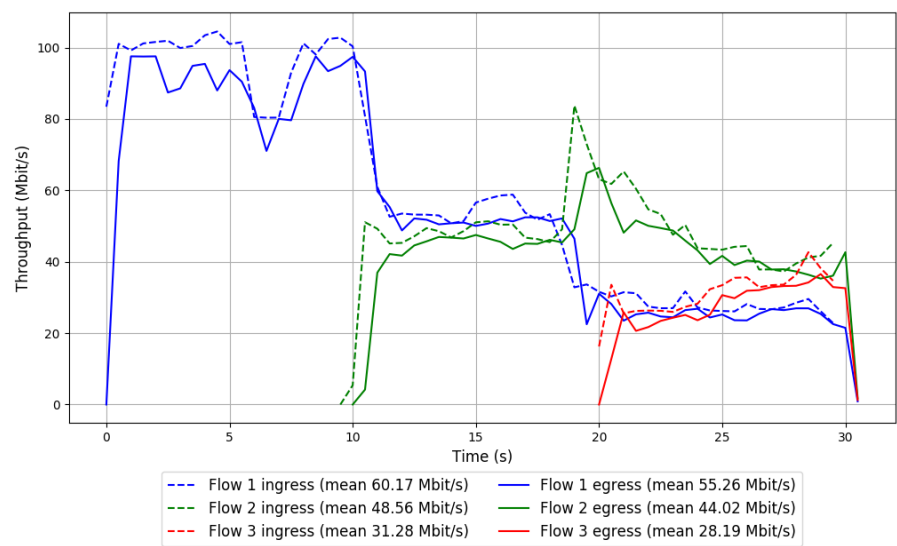


Run 3: Statistics of TCP BBR

Start at: 2018-05-22 04:03:38  
End at: 2018-05-22 04:04:08  
Local clock offset: -1.43 ms  
Remote clock offset: -6.769 ms

# Below is generated by plot.py at 2018-05-22 06:27:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.97 Mbit/s  
95th percentile per-packet one-way delay: 44.692 ms  
Loss rate: 8.64%  
-- Flow 1:  
Average throughput: 55.26 Mbit/s  
95th percentile per-packet one-way delay: 44.238 ms  
Loss rate: 8.09%  
-- Flow 2:  
Average throughput: 44.02 Mbit/s  
95th percentile per-packet one-way delay: 44.856 ms  
Loss rate: 9.33%  
-- Flow 3:  
Average throughput: 28.19 Mbit/s  
95th percentile per-packet one-way delay: 46.079 ms  
Loss rate: 9.70%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-05-22 04:22:06

End at: 2018-05-22 04:22:36

Local clock offset: -7.189 ms

Remote clock offset: -9.29 ms

# Below is generated by plot.py at 2018-05-22 06:27:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 85.85 Mbit/s

95th percentile per-packet one-way delay: 48.336 ms

Loss rate: 10.82%

-- Flow 1:

Average throughput: 52.94 Mbit/s

95th percentile per-packet one-way delay: 48.071 ms

Loss rate: 9.66%

-- Flow 2:

Average throughput: 38.16 Mbit/s

95th percentile per-packet one-way delay: 48.919 ms

Loss rate: 11.94%

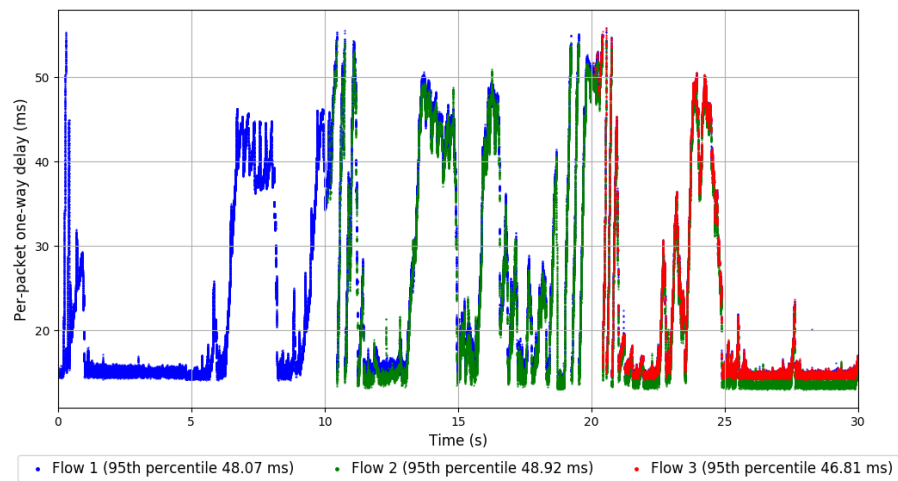
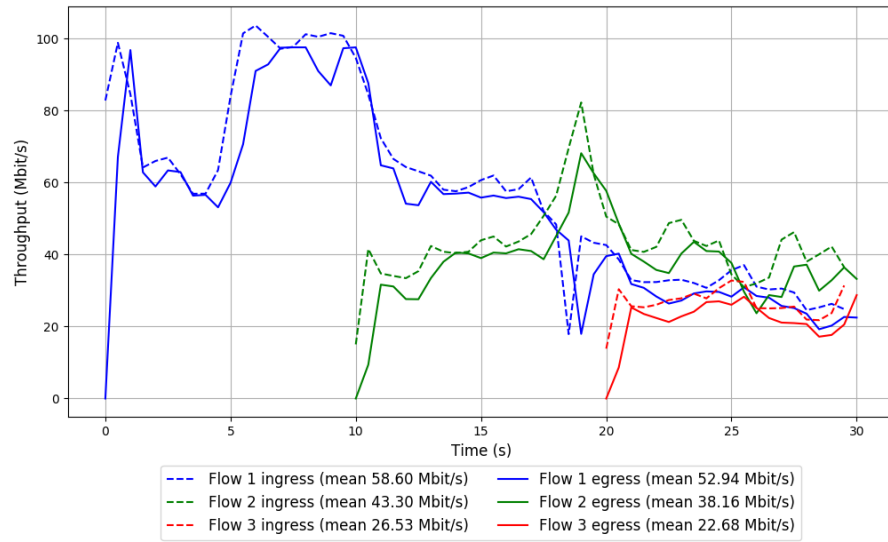
-- Flow 3:

Average throughput: 22.68 Mbit/s

95th percentile per-packet one-way delay: 46.809 ms

Loss rate: 14.82%

# Run 4: Report of TCP BBR — Data Link

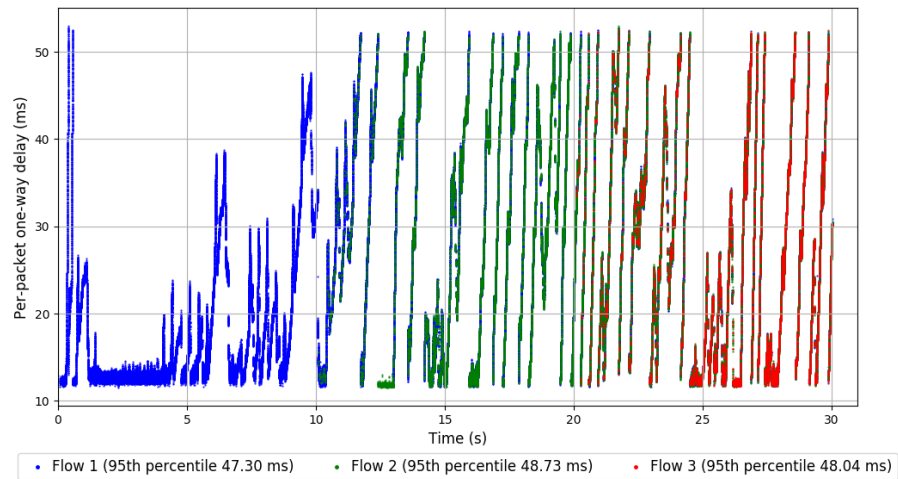
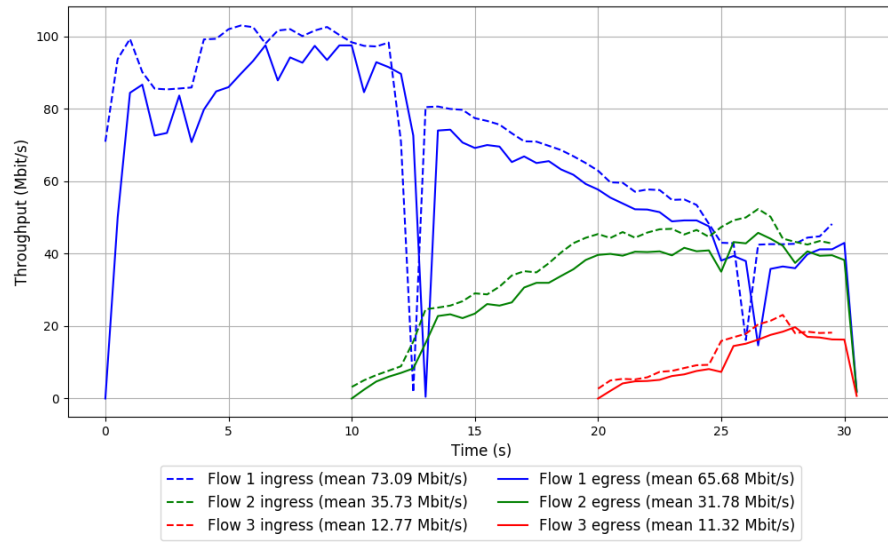


Run 5: Statistics of TCP BBR

Start at: 2018-05-22 04:40:31  
End at: 2018-05-22 04:41:01  
Local clock offset: 0.732 ms  
Remote clock offset: -11.418 ms

# Below is generated by plot.py at 2018-05-22 06:27:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.60 Mbit/s  
95th percentile per-packet one-way delay: 47.797 ms  
Loss rate: 10.37%  
-- Flow 1:  
Average throughput: 65.68 Mbit/s  
95th percentile per-packet one-way delay: 47.300 ms  
Loss rate: 10.08%  
-- Flow 2:  
Average throughput: 31.78 Mbit/s  
95th percentile per-packet one-way delay: 48.733 ms  
Loss rate: 11.10%  
-- Flow 3:  
Average throughput: 11.32 Mbit/s  
95th percentile per-packet one-way delay: 48.041 ms  
Loss rate: 11.33%

# Run 5: Report of TCP BBR — Data Link

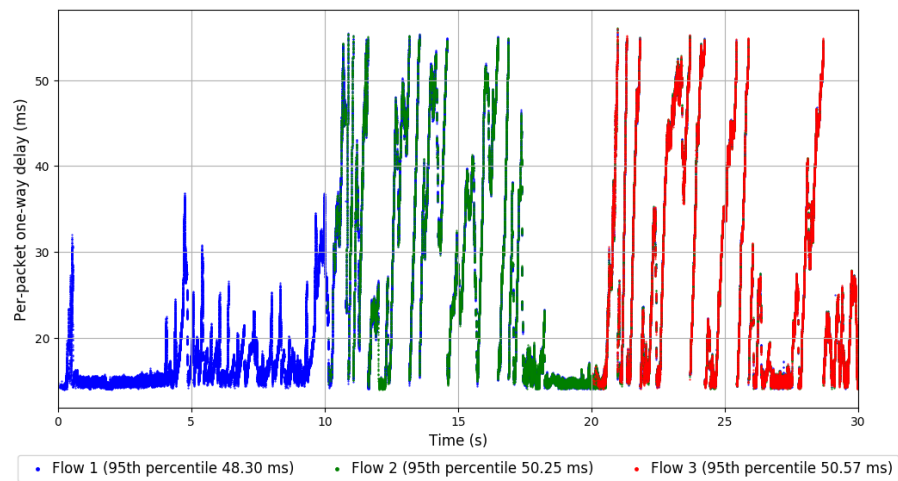
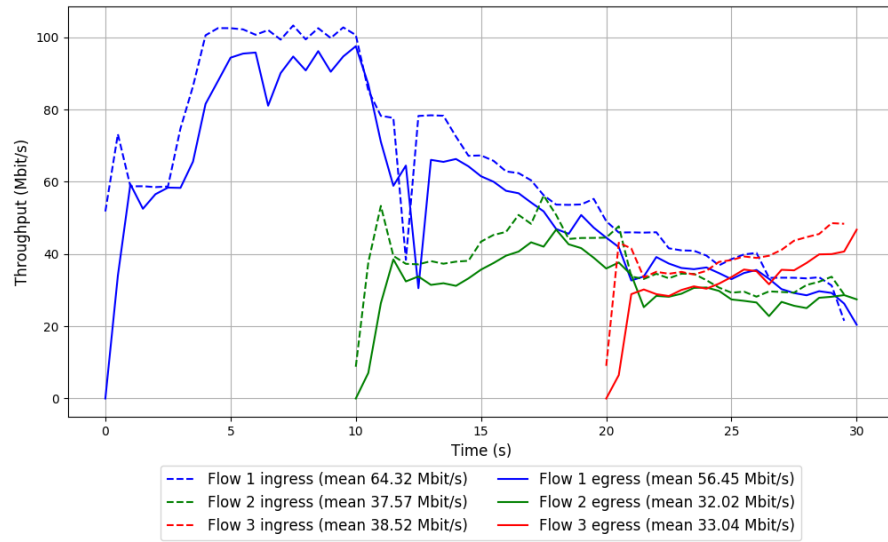


Run 6: Statistics of TCP BBR

Start at: 2018-05-22 04:58:56  
End at: 2018-05-22 04:59:26  
Local clock offset: -0.417 ms  
Remote clock offset: -13.373 ms

# Below is generated by plot.py at 2018-05-22 06:27:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.75 Mbit/s  
95th percentile per-packet one-way delay: 49.374 ms  
Loss rate: 13.11%  
-- Flow 1:  
Average throughput: 56.45 Mbit/s  
95th percentile per-packet one-way delay: 48.300 ms  
Loss rate: 12.23%  
-- Flow 2:  
Average throughput: 32.02 Mbit/s  
95th percentile per-packet one-way delay: 50.251 ms  
Loss rate: 14.81%  
-- Flow 3:  
Average throughput: 33.04 Mbit/s  
95th percentile per-packet one-way delay: 50.572 ms  
Loss rate: 14.23%

# Run 6: Report of TCP BBR — Data Link

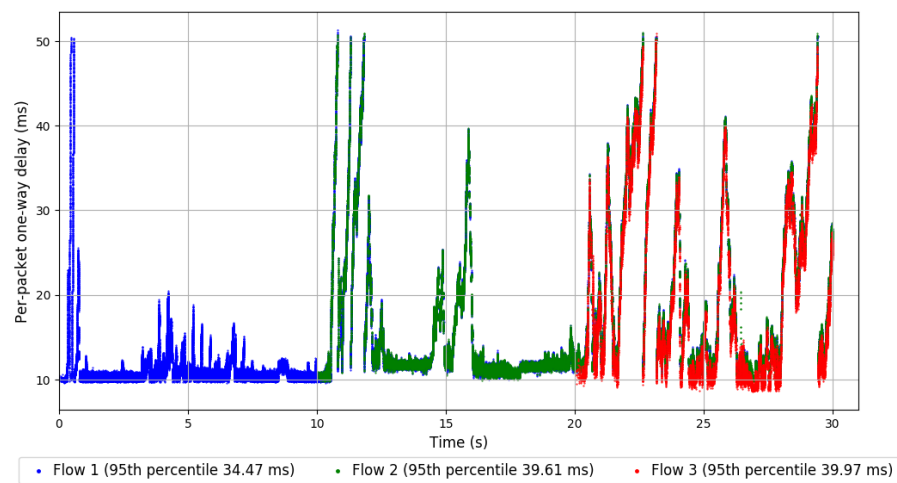
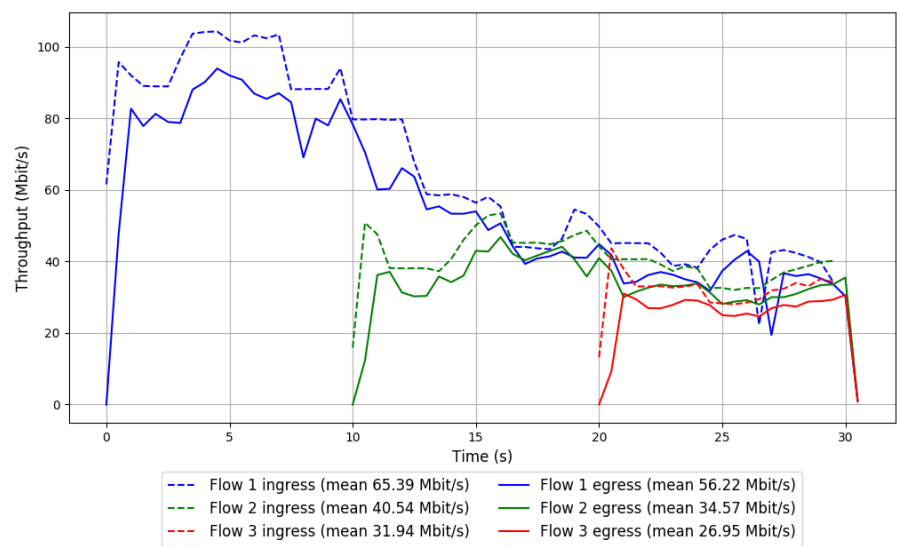


Run 7: Statistics of TCP BBR

Start at: 2018-05-22 05:17:36  
End at: 2018-05-22 05:18:06  
Local clock offset: 4.654 ms  
Remote clock offset: -14.768 ms

# Below is generated by plot.py at 2018-05-22 06:27:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.22 Mbit/s  
95th percentile per-packet one-way delay: 37.928 ms  
Loss rate: 14.32%  
-- Flow 1:  
Average throughput: 56.22 Mbit/s  
95th percentile per-packet one-way delay: 34.472 ms  
Loss rate: 13.99%  
-- Flow 2:  
Average throughput: 34.57 Mbit/s  
95th percentile per-packet one-way delay: 39.606 ms  
Loss rate: 14.67%  
-- Flow 3:  
Average throughput: 26.95 Mbit/s  
95th percentile per-packet one-way delay: 39.968 ms  
Loss rate: 15.49%

Run 7: Report of TCP BBR — Data Link

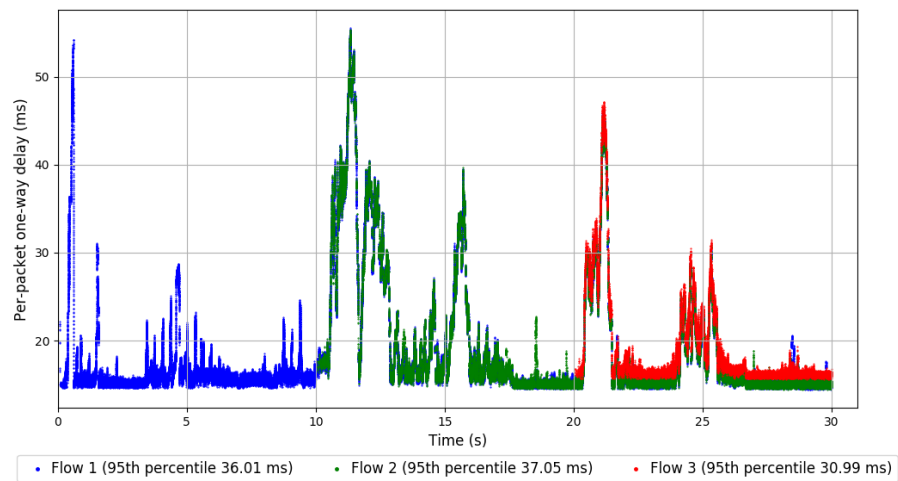
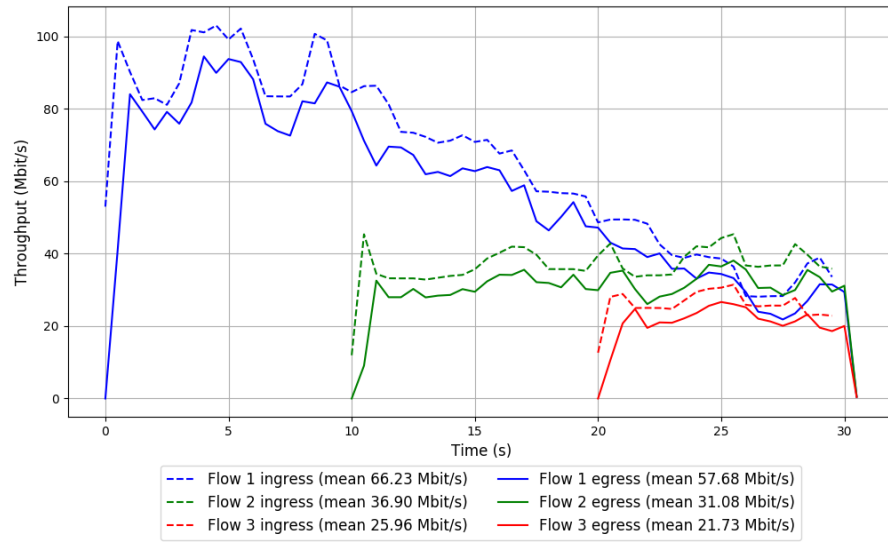


Run 8: Statistics of TCP BBR

Start at: 2018-05-22 05:36:27  
End at: 2018-05-22 05:36:57  
Local clock offset: -0.569 ms  
Remote clock offset: -1.392 ms

# Below is generated by plot.py at 2018-05-22 06:27:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.61 Mbit/s  
95th percentile per-packet one-way delay: 36.063 ms  
Loss rate: 13.90%  
-- Flow 1:  
Average throughput: 57.68 Mbit/s  
95th percentile per-packet one-way delay: 36.008 ms  
Loss rate: 12.90%  
-- Flow 2:  
Average throughput: 31.08 Mbit/s  
95th percentile per-packet one-way delay: 37.054 ms  
Loss rate: 15.75%  
-- Flow 3:  
Average throughput: 21.73 Mbit/s  
95th percentile per-packet one-way delay: 30.986 ms  
Loss rate: 16.29%

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



Run 9: Statistics of TCP BBR

Start at: 2018-05-22 05:55:30

End at: 2018-05-22 05:56:00

Local clock offset: 3.639 ms

Remote clock offset: 2.429 ms

# Below is generated by plot.py at 2018-05-22 06:28:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.59 Mbit/s

95th percentile per-packet one-way delay: 45.332 ms

Loss rate: 9.17%

-- Flow 1:

Average throughput: 53.19 Mbit/s

95th percentile per-packet one-way delay: 44.298 ms

Loss rate: 9.10%

-- Flow 2:

Average throughput: 38.34 Mbit/s

95th percentile per-packet one-way delay: 45.678 ms

Loss rate: 9.97%

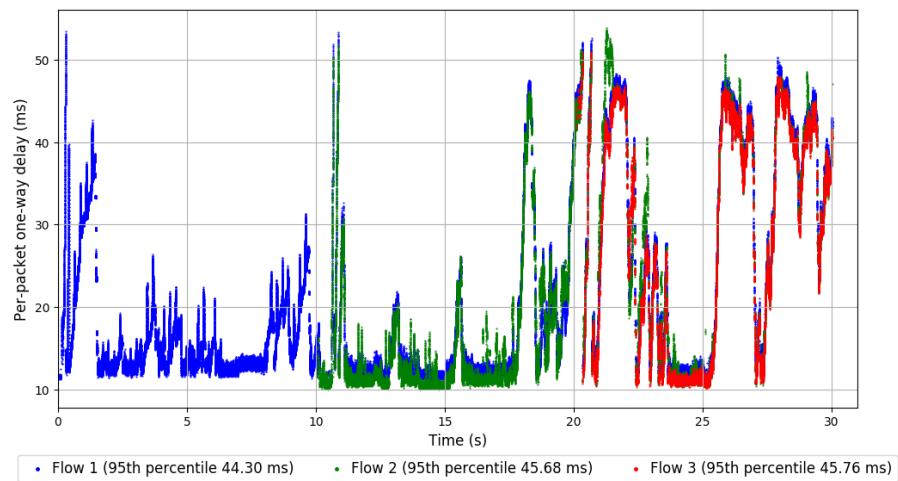
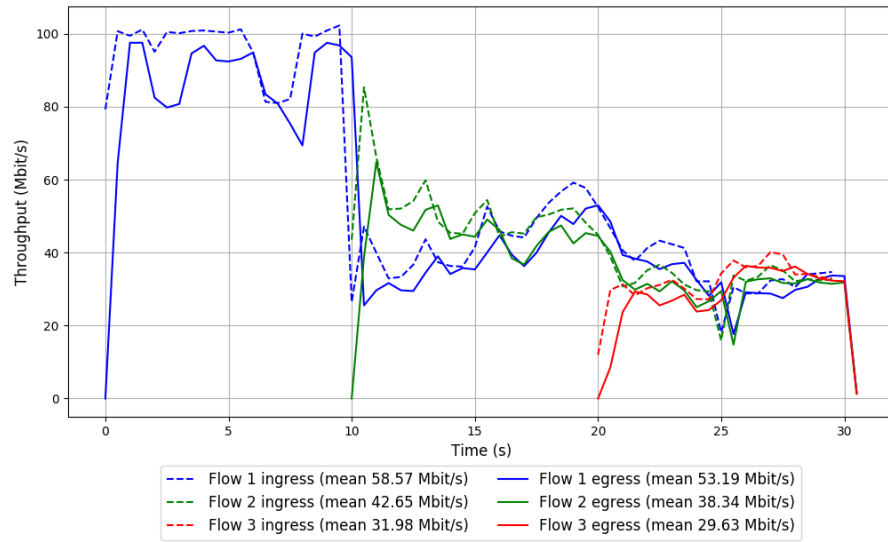
-- Flow 3:

Average throughput: 29.63 Mbit/s

95th percentile per-packet one-way delay: 45.760 ms

Loss rate: 7.38%

# Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-05-22 06:13:52

End at: 2018-05-22 06:14:22

Local clock offset: 0.305 ms

Remote clock offset: 6.409 ms

# Below is generated by plot.py at 2018-05-22 06:28:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 81.50 Mbit/s

95th percentile per-packet one-way delay: 40.907 ms

Loss rate: 14.91%

-- Flow 1:

Average throughput: 49.35 Mbit/s

95th percentile per-packet one-way delay: 38.529 ms

Loss rate: 14.47%

-- Flow 2:

Average throughput: 36.24 Mbit/s

95th percentile per-packet one-way delay: 41.647 ms

Loss rate: 15.39%

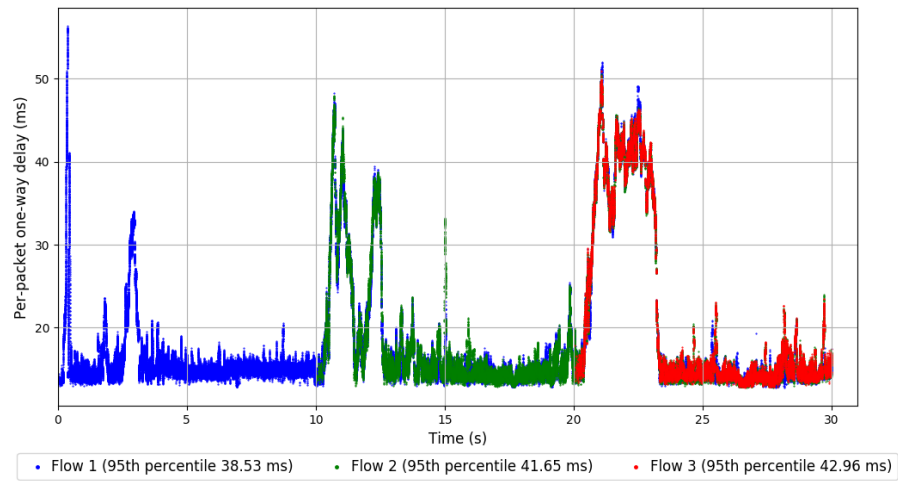
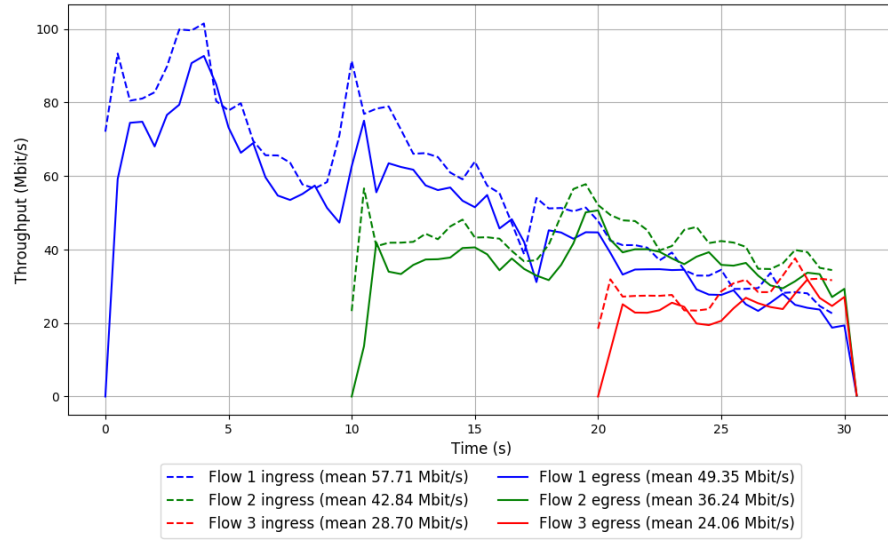
-- Flow 3:

Average throughput: 24.06 Mbit/s

95th percentile per-packet one-way delay: 42.963 ms

Loss rate: 16.17%

# Run 10: Report of TCP BBR — Data Link

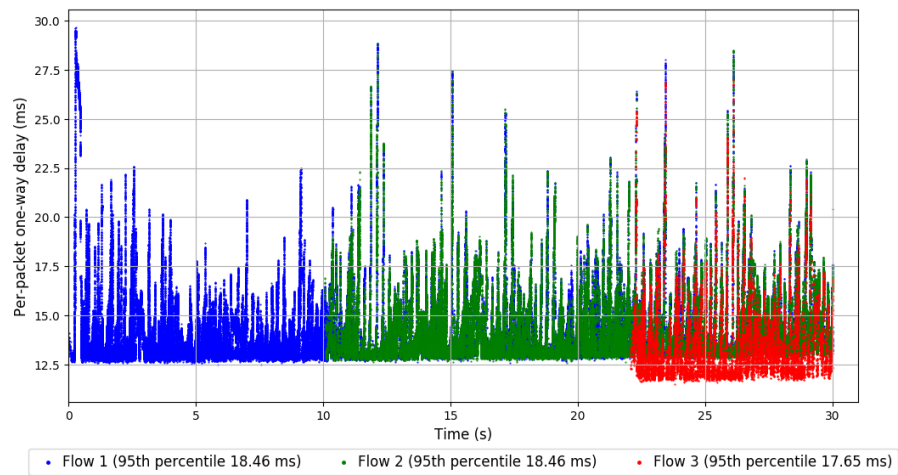
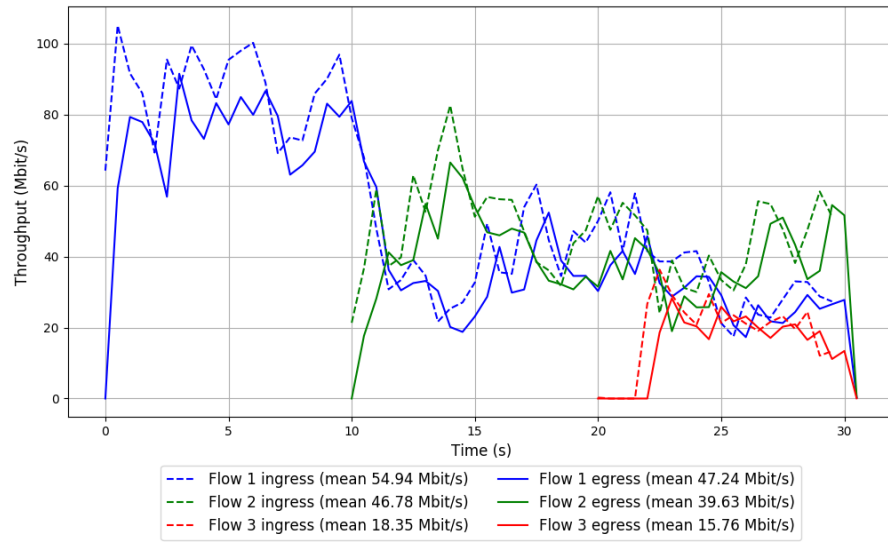


Run 1: Statistics of Copa

Start at: 2018-05-22 03:32:59  
End at: 2018-05-22 03:33:29  
Local clock offset: -1.917 ms  
Remote clock offset: -3.584 ms

# Below is generated by plot.py at 2018-05-22 06:28:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.87 Mbit/s  
95th percentile per-packet one-way delay: 18.414 ms  
Loss rate: 14.44%  
-- Flow 1:  
Average throughput: 47.24 Mbit/s  
95th percentile per-packet one-way delay: 18.456 ms  
Loss rate: 14.02%  
-- Flow 2:  
Average throughput: 39.63 Mbit/s  
95th percentile per-packet one-way delay: 18.458 ms  
Loss rate: 15.24%  
-- Flow 3:  
Average throughput: 15.76 Mbit/s  
95th percentile per-packet one-way delay: 17.653 ms  
Loss rate: 14.13%

# Run 1: Report of Copa — Data Link

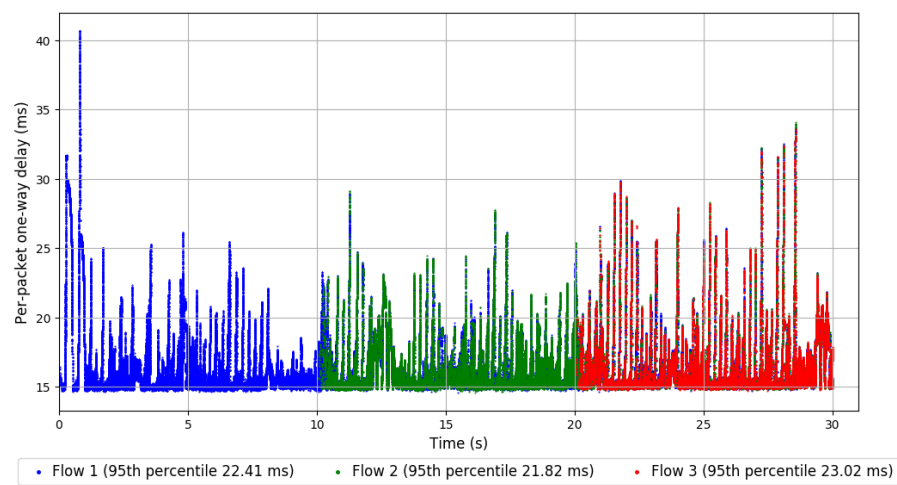
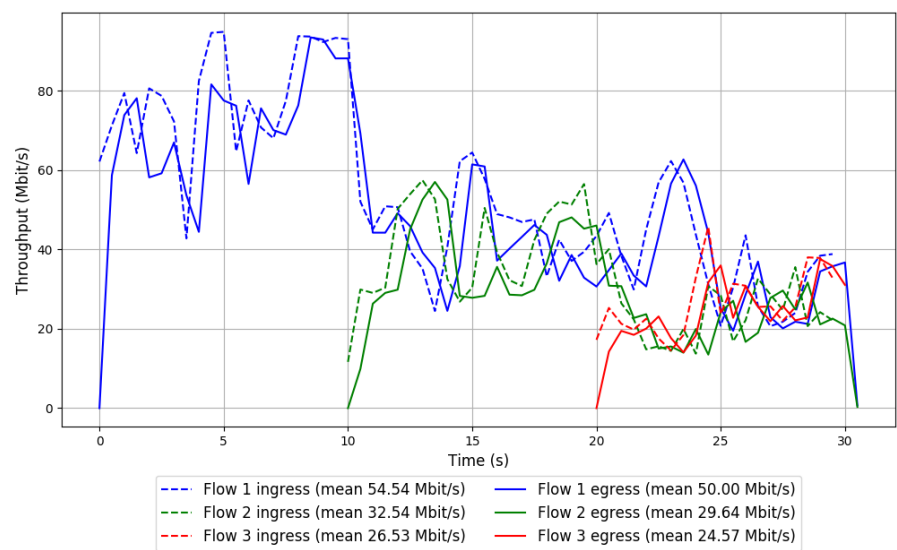


Run 2: Statistics of Copa

Start at: 2018-05-22 03:51:09  
End at: 2018-05-22 03:51:39  
Local clock offset: 1.801 ms  
Remote clock offset: -4.366 ms

# Below is generated by plot.py at 2018-05-22 06:28:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.90 Mbit/s  
95th percentile per-packet one-way delay: 22.276 ms  
Loss rate: 8.38%  
-- Flow 1:  
Average throughput: 50.00 Mbit/s  
95th percentile per-packet one-way delay: 22.410 ms  
Loss rate: 8.32%  
-- Flow 2:  
Average throughput: 29.64 Mbit/s  
95th percentile per-packet one-way delay: 21.818 ms  
Loss rate: 8.91%  
-- Flow 3:  
Average throughput: 24.57 Mbit/s  
95th percentile per-packet one-way delay: 23.017 ms  
Loss rate: 7.44%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-05-22 04:09:39

End at: 2018-05-22 04:10:09

Local clock offset: -1.144 ms

Remote clock offset: -5.77 ms

# Below is generated by plot.py at 2018-05-22 06:28:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 71.84 Mbit/s

95th percentile per-packet one-way delay: 16.110 ms

Loss rate: 11.70%

-- Flow 1:

Average throughput: 40.84 Mbit/s

95th percentile per-packet one-way delay: 15.481 ms

Loss rate: 10.10%

-- Flow 2:

Average throughput: 33.29 Mbit/s

95th percentile per-packet one-way delay: 17.115 ms

Loss rate: 12.07%

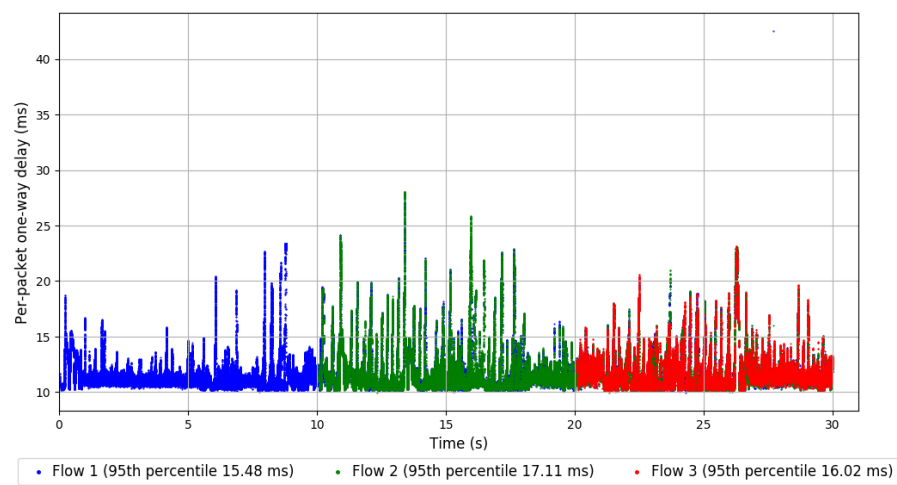
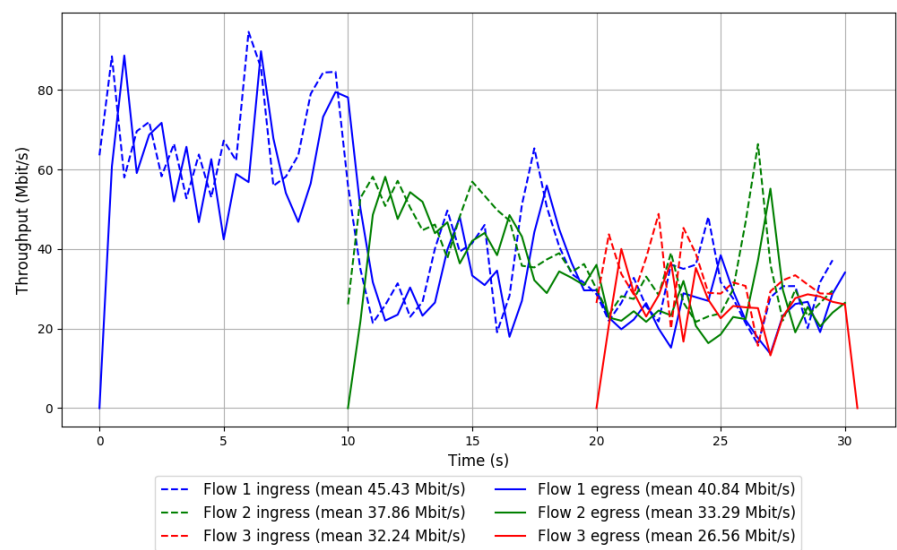
-- Flow 3:

Average throughput: 26.56 Mbit/s

95th percentile per-packet one-way delay: 16.023 ms

Loss rate: 17.61%

Run 3: Report of Copa — Data Link

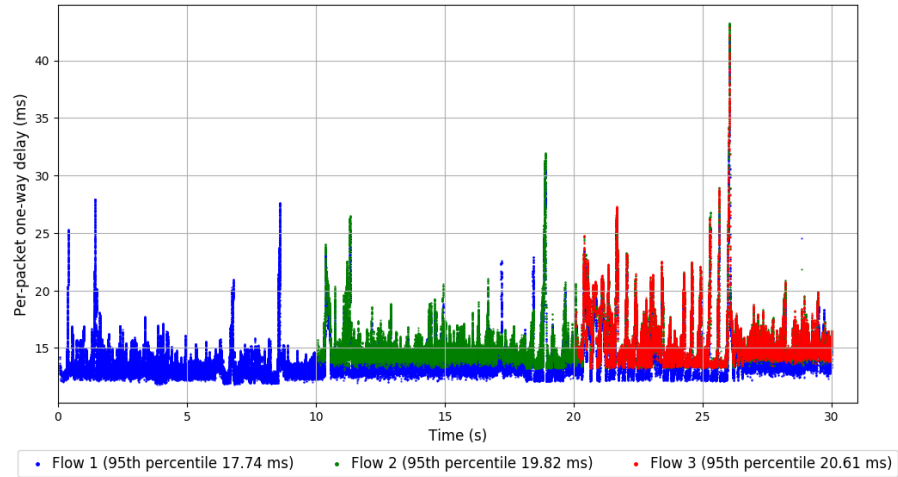
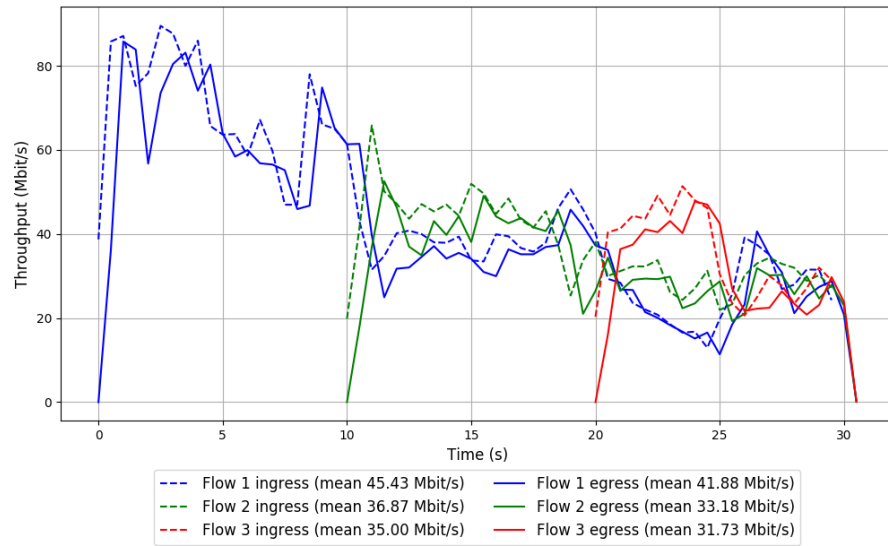


Run 4: Statistics of Copa

Start at: 2018-05-22 04:27:54  
End at: 2018-05-22 04:28:24  
Local clock offset: -3.558 ms  
Remote clock offset: -8.441 ms

# Below is generated by plot.py at 2018-05-22 06:28:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.53 Mbit/s  
95th percentile per-packet one-way delay: 19.215 ms  
Loss rate: 8.69%  
-- Flow 1:  
Average throughput: 41.88 Mbit/s  
95th percentile per-packet one-way delay: 17.742 ms  
Loss rate: 7.81%  
-- Flow 2:  
Average throughput: 33.18 Mbit/s  
95th percentile per-packet one-way delay: 19.815 ms  
Loss rate: 10.01%  
-- Flow 3:  
Average throughput: 31.73 Mbit/s  
95th percentile per-packet one-way delay: 20.605 ms  
Loss rate: 9.34%

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

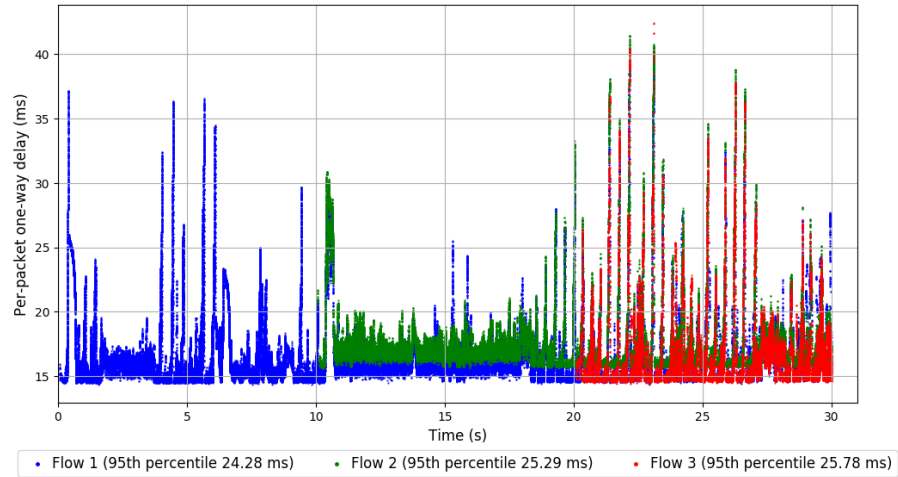
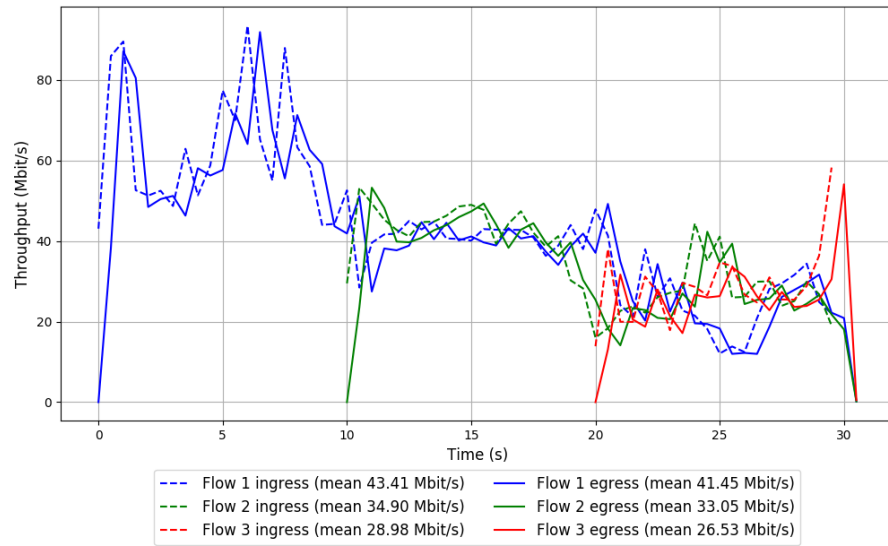


Run 5: Statistics of Copa

Start at: 2018-05-22 04:46:19  
End at: 2018-05-22 04:46:49  
Local clock offset: -0.515 ms  
Remote clock offset: -9.92 ms

# Below is generated by plot.py at 2018-05-22 06:28:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 72.28 Mbit/s  
95th percentile per-packet one-way delay: 24.730 ms  
Loss rate: 5.27%  
-- Flow 1:  
Average throughput: 41.45 Mbit/s  
95th percentile per-packet one-way delay: 24.282 ms  
Loss rate: 4.51%  
-- Flow 2:  
Average throughput: 33.05 Mbit/s  
95th percentile per-packet one-way delay: 25.290 ms  
Loss rate: 5.31%  
-- Flow 3:  
Average throughput: 26.53 Mbit/s  
95th percentile per-packet one-way delay: 25.781 ms  
Loss rate: 8.55%

## Run 5: Report of Copa — Data Link

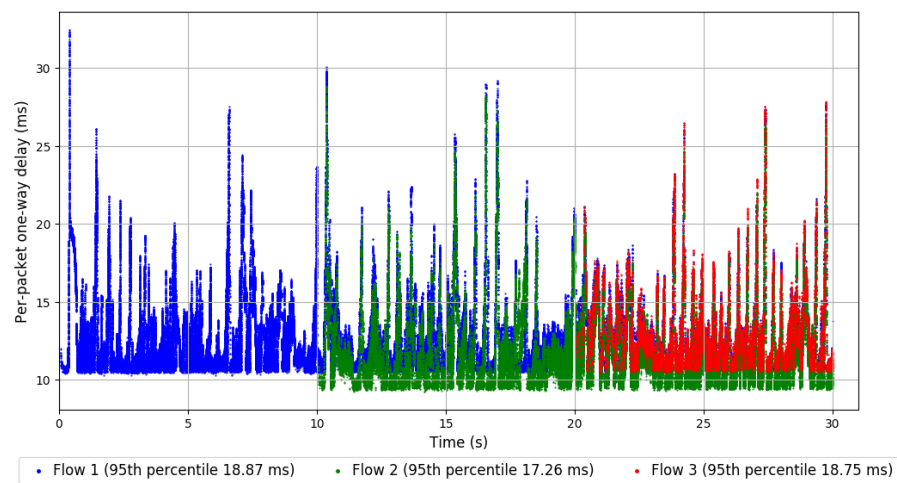
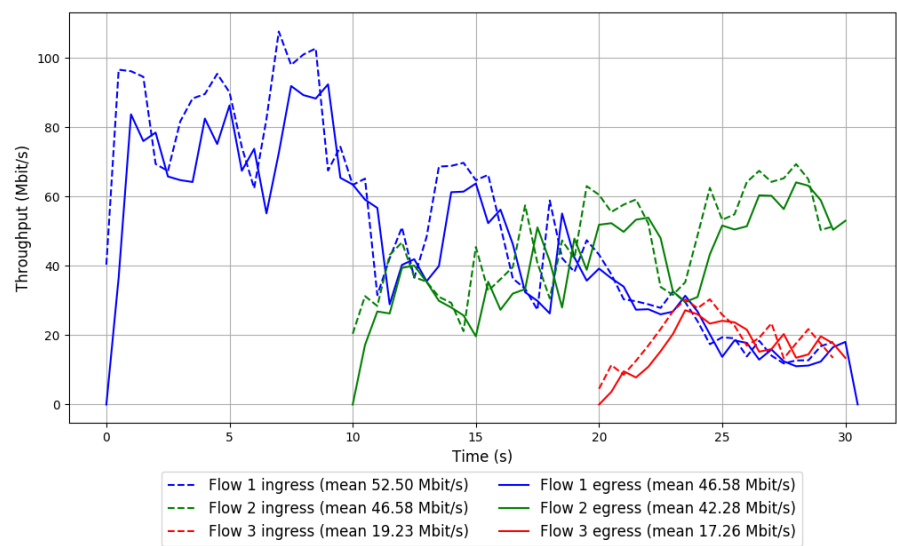


Run 6: Statistics of Copa

Start at: 2018-05-22 05:04:55  
End at: 2018-05-22 05:05:25  
Local clock offset: 3.229 ms  
Remote clock offset: -13.979 ms

# Below is generated by plot.py at 2018-05-22 06:29:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.47 Mbit/s  
95th percentile per-packet one-way delay: 18.404 ms  
Loss rate: 10.50%  
-- Flow 1:  
Average throughput: 46.58 Mbit/s  
95th percentile per-packet one-way delay: 18.872 ms  
Loss rate: 11.26%  
-- Flow 2:  
Average throughput: 42.28 Mbit/s  
95th percentile per-packet one-way delay: 17.260 ms  
Loss rate: 9.25%  
-- Flow 3:  
Average throughput: 17.26 Mbit/s  
95th percentile per-packet one-way delay: 18.748 ms  
Loss rate: 10.26%

Run 6: Report of Copa — Data Link

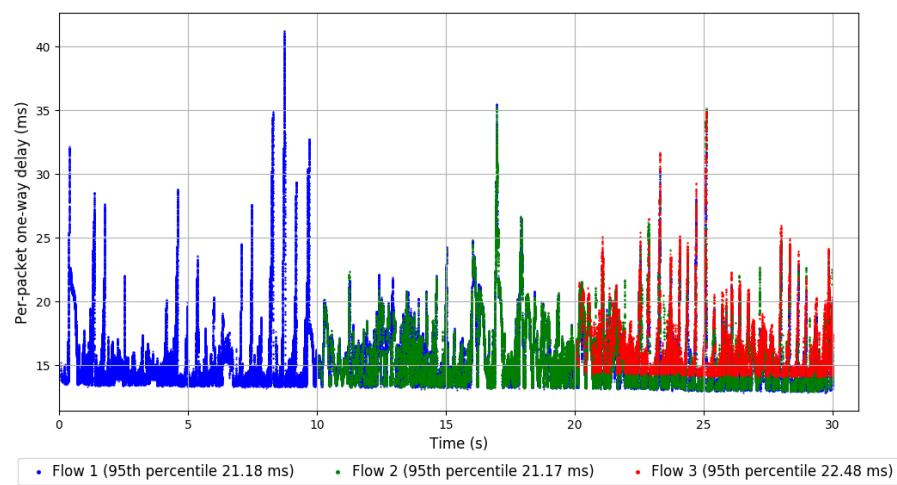
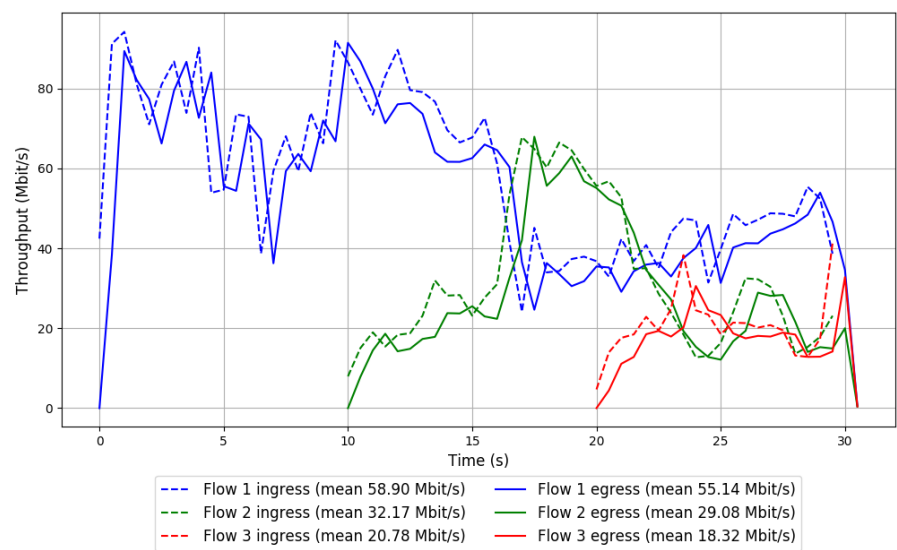


Run 7: Statistics of Copa

Start at: 2018-05-22 05:23:46  
End at: 2018-05-22 05:24:16  
Local clock offset: 1.148 ms  
Remote clock offset: -9.192 ms

# Below is generated by plot.py at 2018-05-22 06:30:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.61 Mbit/s  
95th percentile per-packet one-way delay: 21.294 ms  
Loss rate: 7.60%  
-- Flow 1:  
Average throughput: 55.14 Mbit/s  
95th percentile per-packet one-way delay: 21.183 ms  
Loss rate: 6.37%  
-- Flow 2:  
Average throughput: 29.08 Mbit/s  
95th percentile per-packet one-way delay: 21.173 ms  
Loss rate: 9.59%  
-- Flow 3:  
Average throughput: 18.32 Mbit/s  
95th percentile per-packet one-way delay: 22.478 ms  
Loss rate: 11.83%

Run 7: Report of Copa — Data Link

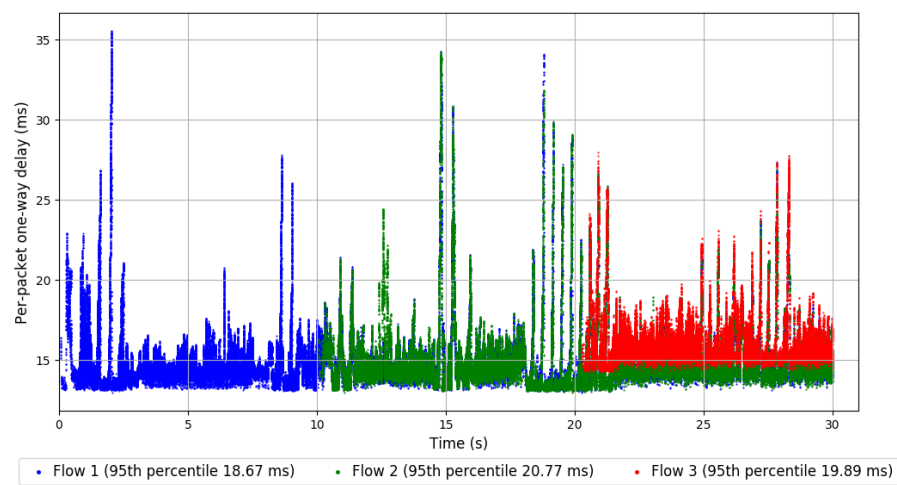
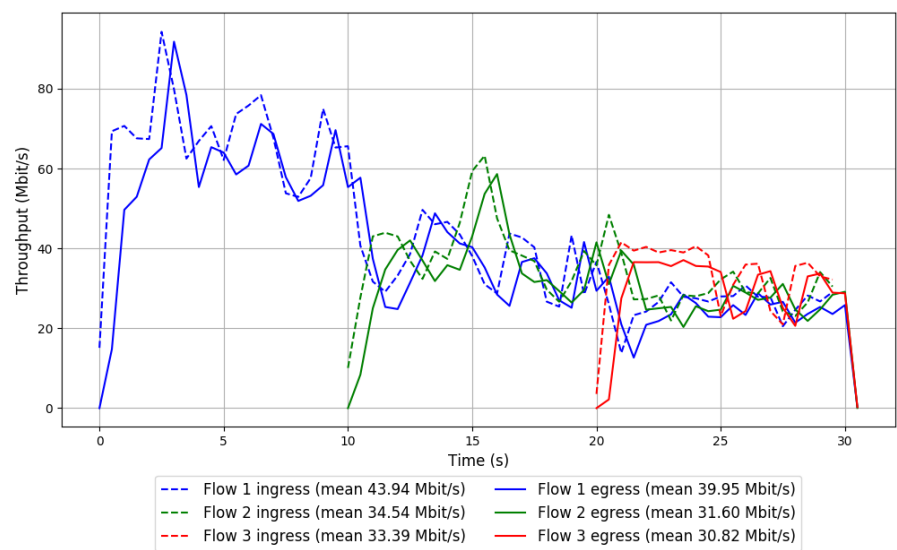


Run 8: Statistics of Copa

Start at: 2018-05-22 05:42:48  
End at: 2018-05-22 05:43:18  
Local clock offset: 0.267 ms  
Remote clock offset: -0.116 ms

# Below is generated by plot.py at 2018-05-22 06:30:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 71.04 Mbit/s  
95th percentile per-packet one-way delay: 19.528 ms  
Loss rate: 8.99%  
-- Flow 1:  
Average throughput: 39.95 Mbit/s  
95th percentile per-packet one-way delay: 18.667 ms  
Loss rate: 9.08%  
-- Flow 2:  
Average throughput: 31.60 Mbit/s  
95th percentile per-packet one-way delay: 20.768 ms  
Loss rate: 8.52%  
-- Flow 3:  
Average throughput: 30.82 Mbit/s  
95th percentile per-packet one-way delay: 19.886 ms  
Loss rate: 9.58%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-05-22 06:01:20

End at: 2018-05-22 06:01:50

Local clock offset: -1.389 ms

Remote clock offset: 4.105 ms

# Below is generated by plot.py at 2018-05-22 06:30:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 68.74 Mbit/s

95th percentile per-packet one-way delay: 19.105 ms

Loss rate: 3.32%

-- Flow 1:

Average throughput: 36.46 Mbit/s

95th percentile per-packet one-way delay: 18.684 ms

Loss rate: 2.75%

-- Flow 2:

Average throughput: 34.26 Mbit/s

95th percentile per-packet one-way delay: 18.733 ms

Loss rate: 3.67%

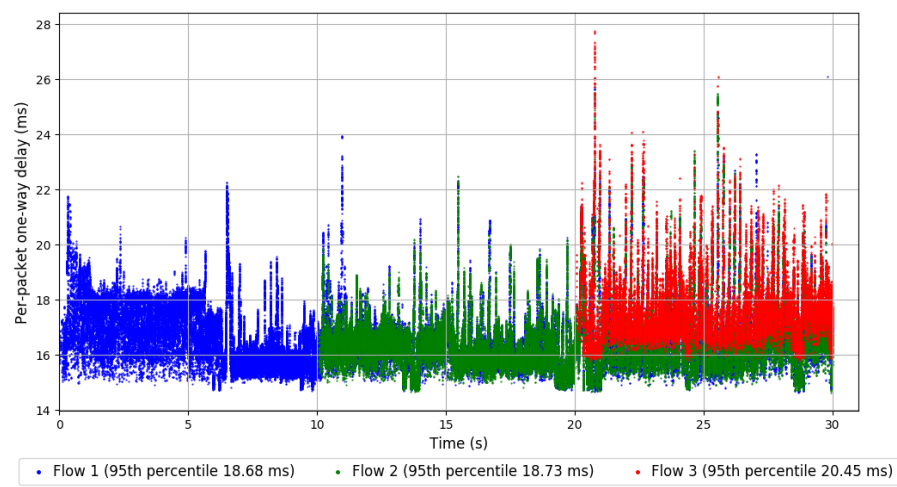
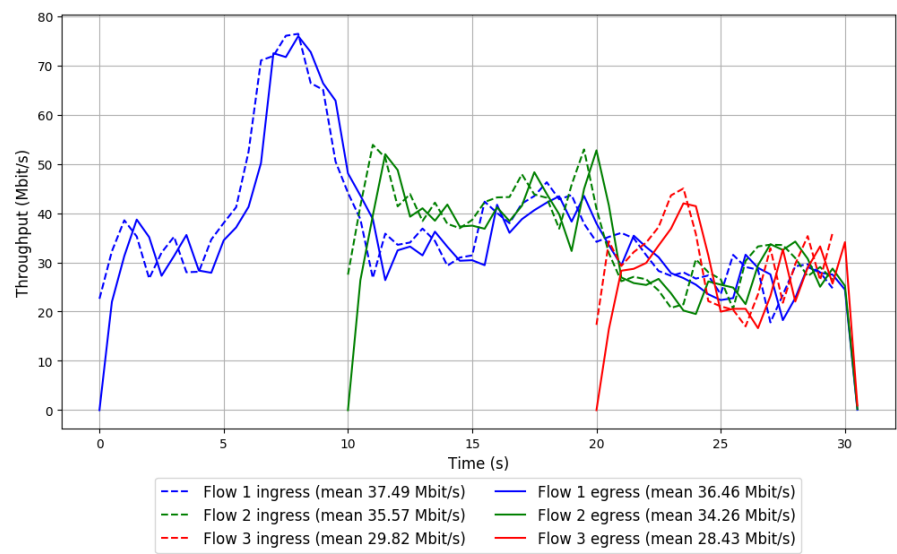
-- Flow 3:

Average throughput: 28.43 Mbit/s

95th percentile per-packet one-way delay: 20.448 ms

Loss rate: 4.66%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-05-22 06:19:51

End at: 2018-05-22 06:20:21

Local clock offset: 2.227 ms

Remote clock offset: 6.689 ms

# Below is generated by plot.py at 2018-05-22 06:30:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 72.33 Mbit/s

95th percentile per-packet one-way delay: 15.512 ms

Loss rate: 14.35%

-- Flow 1:

Average throughput: 41.47 Mbit/s

95th percentile per-packet one-way delay: 15.613 ms

Loss rate: 14.41%

-- Flow 2:

Average throughput: 32.73 Mbit/s

95th percentile per-packet one-way delay: 15.141 ms

Loss rate: 13.91%

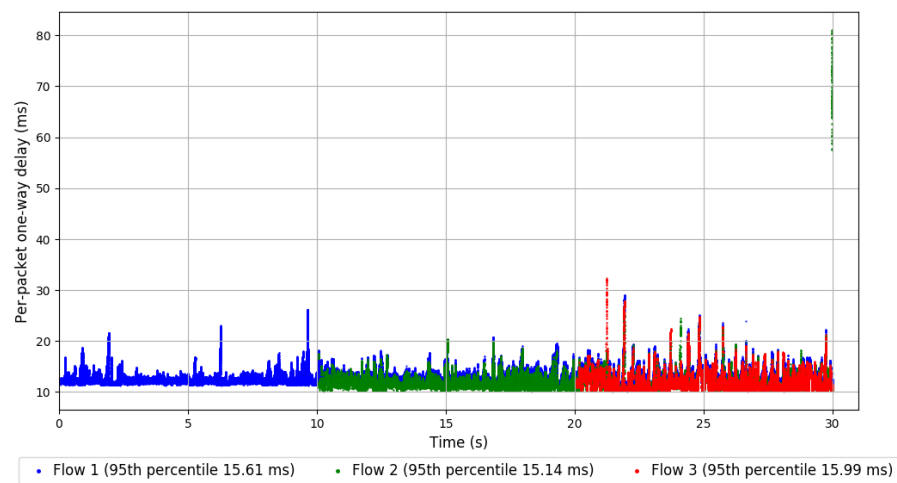
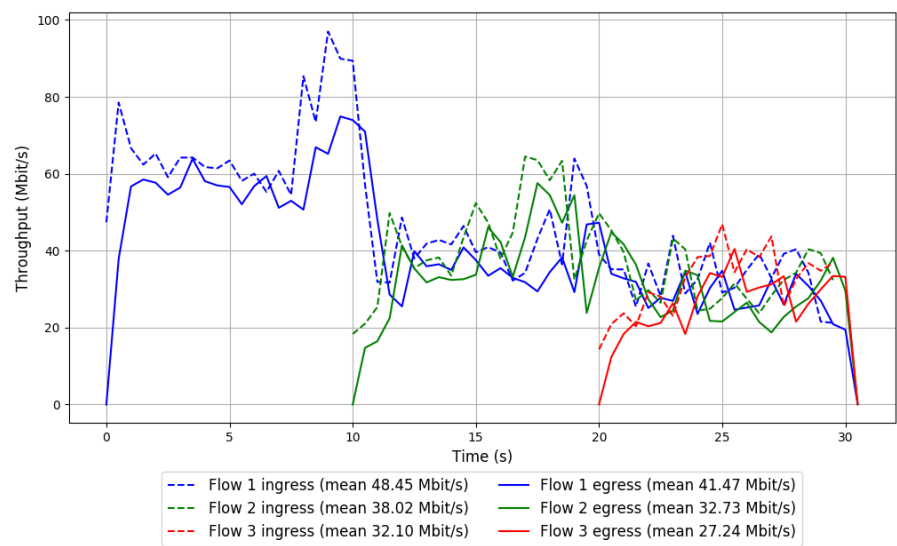
-- Flow 3:

Average throughput: 27.24 Mbit/s

95th percentile per-packet one-way delay: 15.994 ms

Loss rate: 15.12%

Run 10: Report of Copa — Data Link

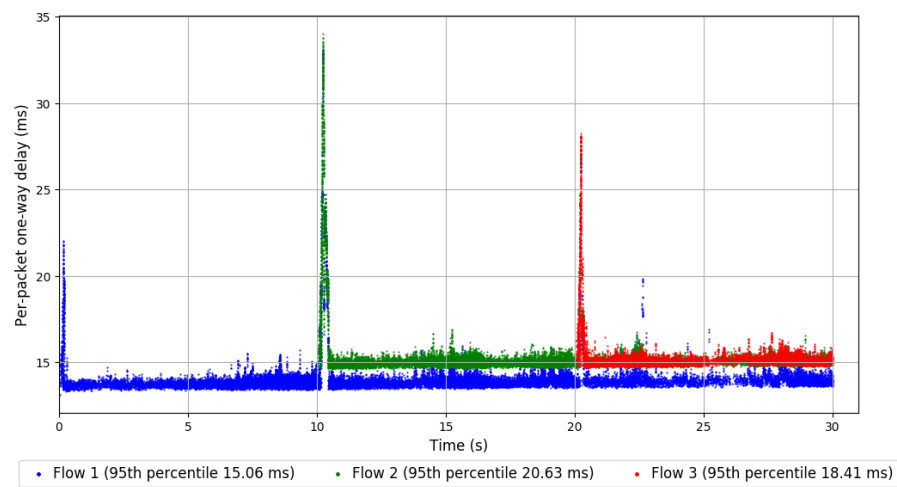
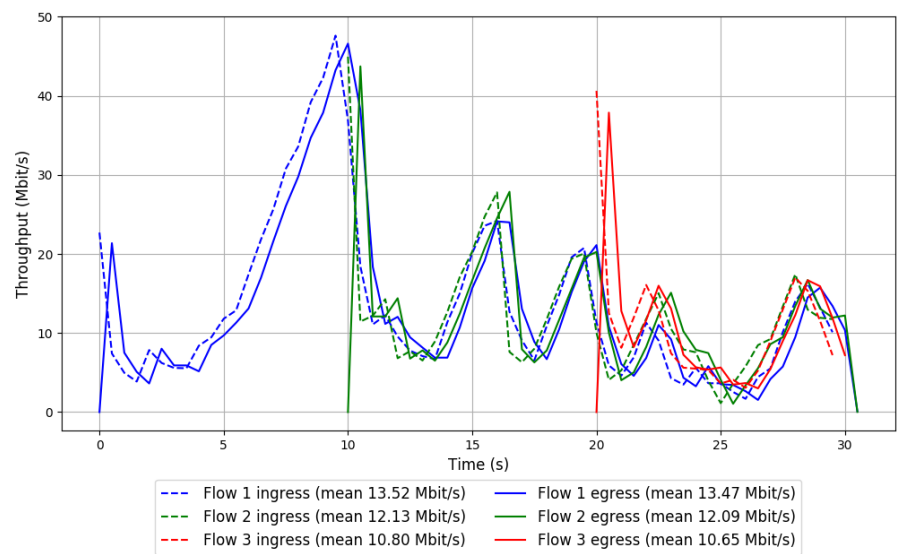


Run 1: Statistics of TCP Cubic

Start at: 2018-05-22 03:34:10  
End at: 2018-05-22 03:34:40  
Local clock offset: -1.689 ms  
Remote clock offset: -2.091 ms

# Below is generated by plot.py at 2018-05-22 06:30:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 25.06 Mbit/s  
95th percentile per-packet one-way delay: 17.478 ms  
Loss rate: 0.52%  
-- Flow 1:  
Average throughput: 13.47 Mbit/s  
95th percentile per-packet one-way delay: 15.065 ms  
Loss rate: 0.40%  
-- Flow 2:  
Average throughput: 12.09 Mbit/s  
95th percentile per-packet one-way delay: 20.628 ms  
Loss rate: 0.31%  
-- Flow 3:  
Average throughput: 10.65 Mbit/s  
95th percentile per-packet one-way delay: 18.409 ms  
Loss rate: 1.44%

Run 1: Report of TCP Cubic — Data Link

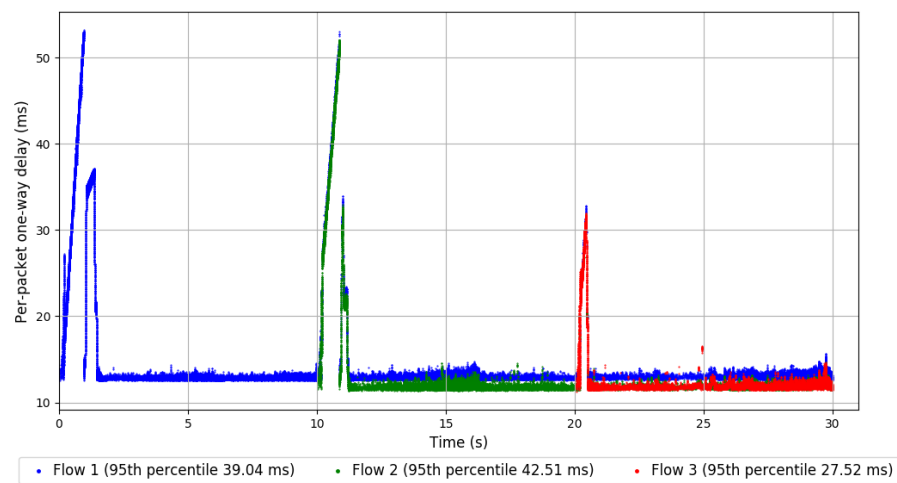
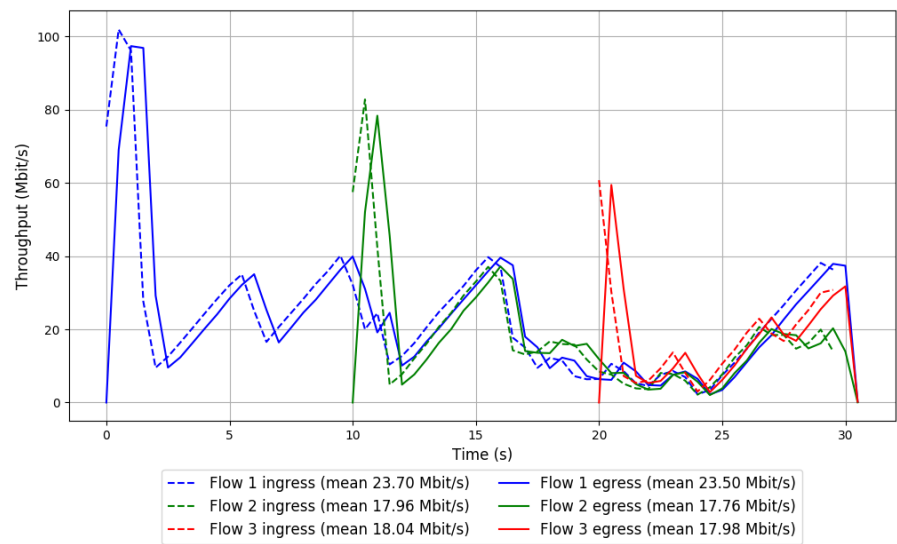


Run 2: Statistics of TCP Cubic

Start at: 2018-05-22 03:52:24  
End at: 2018-05-22 03:52:54  
Local clock offset: 5.067 ms  
Remote clock offset: -3.561 ms

# Below is generated by plot.py at 2018-05-22 06:30:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 41.31 Mbit/s  
95th percentile per-packet one-way delay: 38.562 ms  
Loss rate: 0.86%  
-- Flow 1:  
Average throughput: 23.50 Mbit/s  
95th percentile per-packet one-way delay: 39.042 ms  
Loss rate: 0.88%  
-- Flow 2:  
Average throughput: 17.76 Mbit/s  
95th percentile per-packet one-way delay: 42.506 ms  
Loss rate: 1.09%  
-- Flow 3:  
Average throughput: 17.98 Mbit/s  
95th percentile per-packet one-way delay: 27.522 ms  
Loss rate: 0.33%

Run 2: Report of TCP Cubic — Data Link

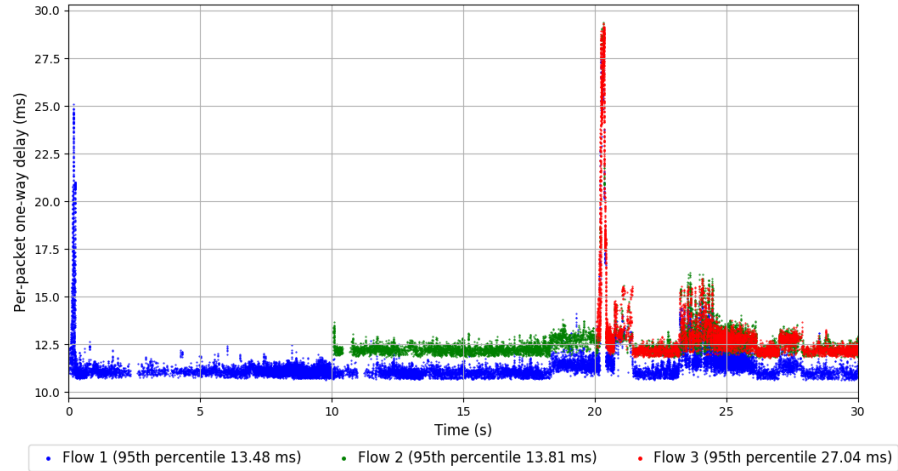
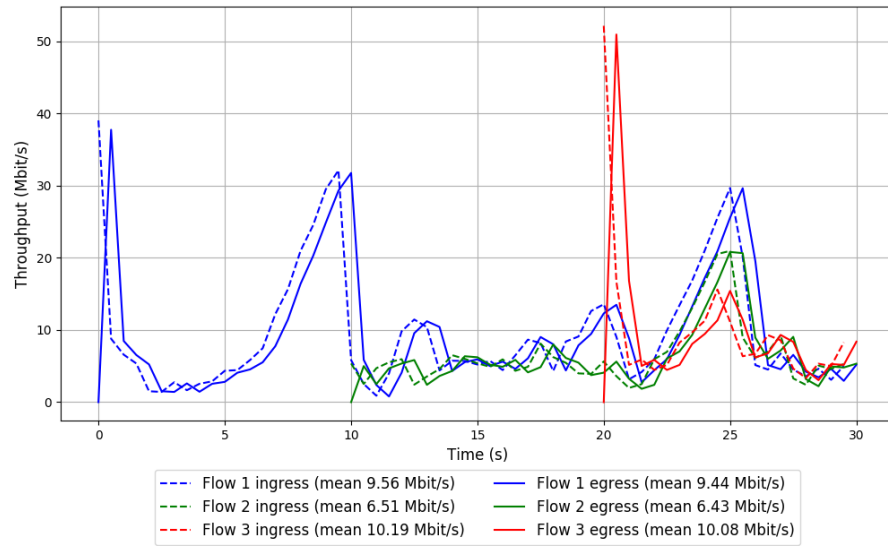


Run 3: Statistics of TCP Cubic

Start at: 2018-05-22 04:10:51  
End at: 2018-05-22 04:11:21  
Local clock offset: -2.726 ms  
Remote clock offset: -6.634 ms

# Below is generated by plot.py at 2018-05-22 06:30:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 17.07 Mbit/s  
95th percentile per-packet one-way delay: 16.434 ms  
Loss rate: 1.17%  
-- Flow 1:  
Average throughput: 9.44 Mbit/s  
95th percentile per-packet one-way delay: 13.483 ms  
Loss rate: 1.21%  
-- Flow 2:  
Average throughput: 6.43 Mbit/s  
95th percentile per-packet one-way delay: 13.813 ms  
Loss rate: 1.19%  
-- Flow 3:  
Average throughput: 10.08 Mbit/s  
95th percentile per-packet one-way delay: 27.037 ms  
Loss rate: 1.04%

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

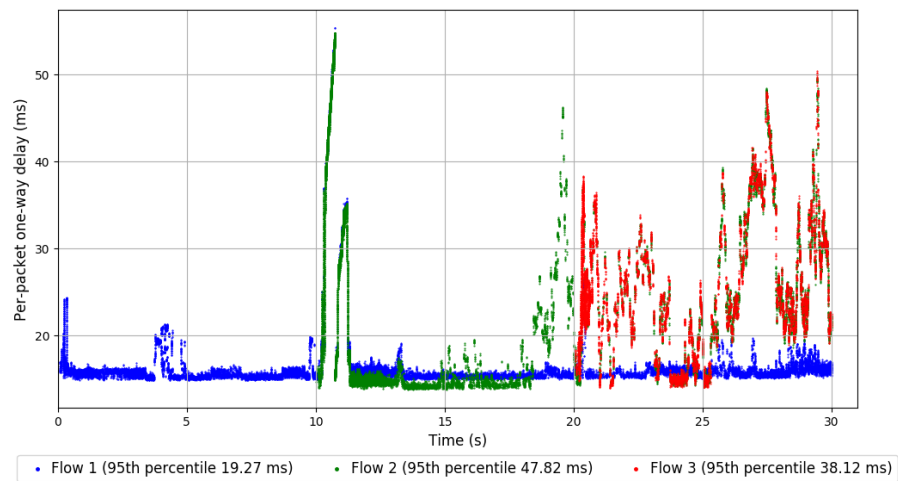
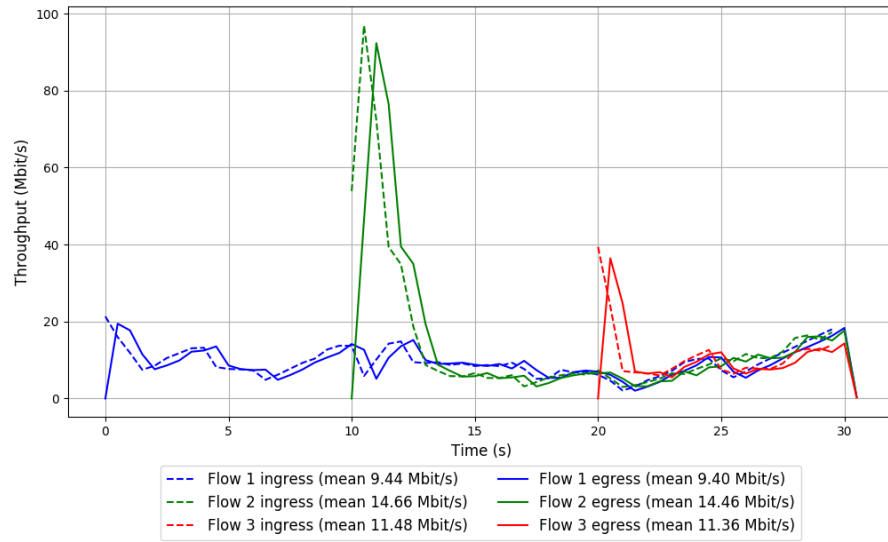


Run 4: Statistics of TCP Cubic

Start at: 2018-05-22 04:29:10  
End at: 2018-05-22 04:29:40  
Local clock offset: -3.983 ms  
Remote clock offset: -7.942 ms

# Below is generated by plot.py at 2018-05-22 06:30:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 22.82 Mbit/s  
95th percentile per-packet one-way delay: 41.731 ms  
Loss rate: 0.91%  
-- Flow 1:  
Average throughput: 9.40 Mbit/s  
95th percentile per-packet one-way delay: 19.271 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 14.46 Mbit/s  
95th percentile per-packet one-way delay: 47.816 ms  
Loss rate: 1.33%  
-- Flow 3:  
Average throughput: 11.36 Mbit/s  
95th percentile per-packet one-way delay: 38.125 ms  
Loss rate: 1.03%

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

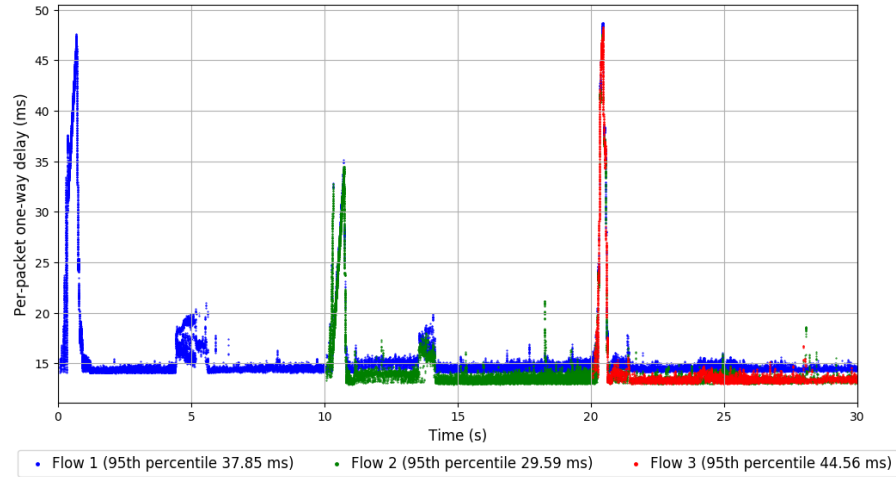
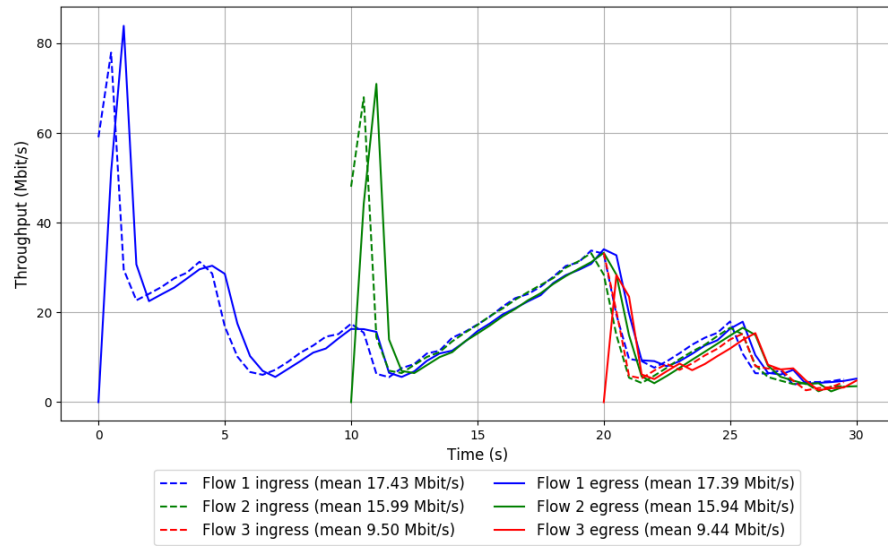


Run 5: Statistics of TCP Cubic

Start at: 2018-05-22 04:47:32  
End at: 2018-05-22 04:48:02  
Local clock offset: 0.558 ms  
Remote clock offset: -10.578 ms

# Below is generated by plot.py at 2018-05-22 06:30:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 31.14 Mbit/s  
95th percentile per-packet one-way delay: 36.054 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 17.39 Mbit/s  
95th percentile per-packet one-way delay: 37.849 ms  
Loss rate: 0.24%  
-- Flow 2:  
Average throughput: 15.94 Mbit/s  
95th percentile per-packet one-way delay: 29.591 ms  
Loss rate: 0.33%  
-- Flow 3:  
Average throughput: 9.44 Mbit/s  
95th percentile per-packet one-way delay: 44.563 ms  
Loss rate: 0.67%

# Run 5: Report of TCP Cubic — Data Link

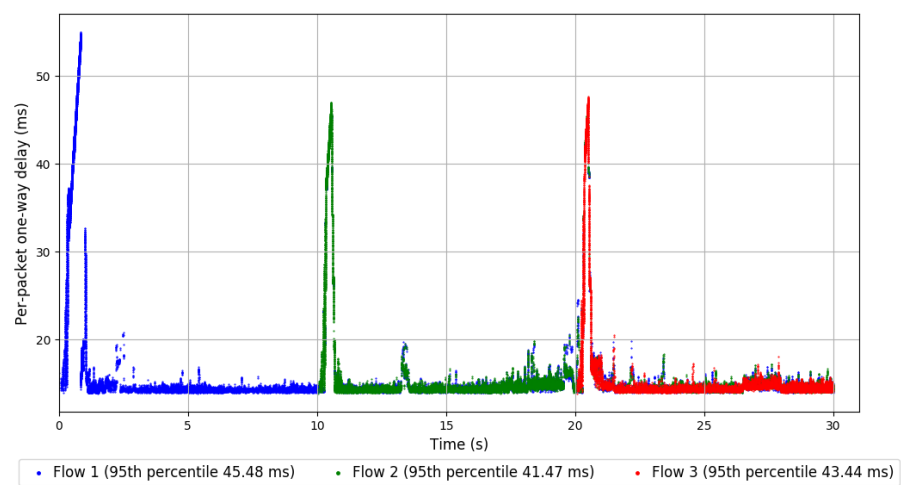
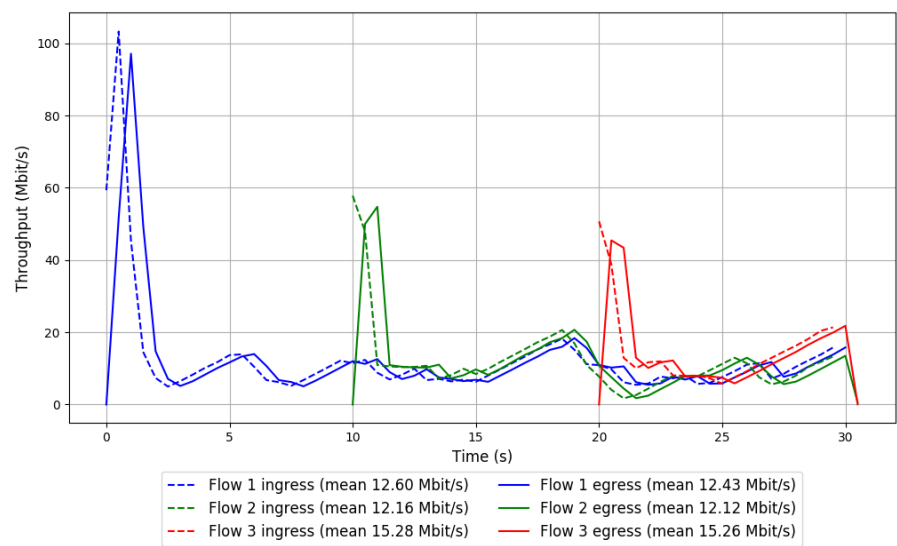


Run 6: Statistics of TCP Cubic

Start at: 2018-05-22 05:06:13  
End at: 2018-05-22 05:06:43  
Local clock offset: 0.441 ms  
Remote clock offset: -12.273 ms

# Below is generated by plot.py at 2018-05-22 06:30:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 25.58 Mbit/s  
95th percentile per-packet one-way delay: 43.491 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 12.43 Mbit/s  
95th percentile per-packet one-way delay: 45.480 ms  
Loss rate: 1.37%  
-- Flow 2:  
Average throughput: 12.12 Mbit/s  
95th percentile per-packet one-way delay: 41.468 ms  
Loss rate: 0.28%  
-- Flow 3:  
Average throughput: 15.26 Mbit/s  
95th percentile per-packet one-way delay: 43.437 ms  
Loss rate: 0.15%

Run 6: Report of TCP Cubic — Data Link

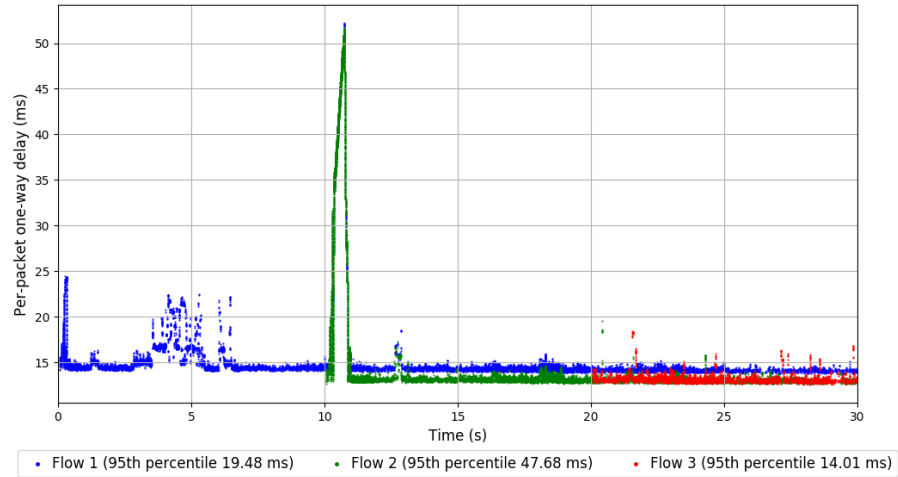
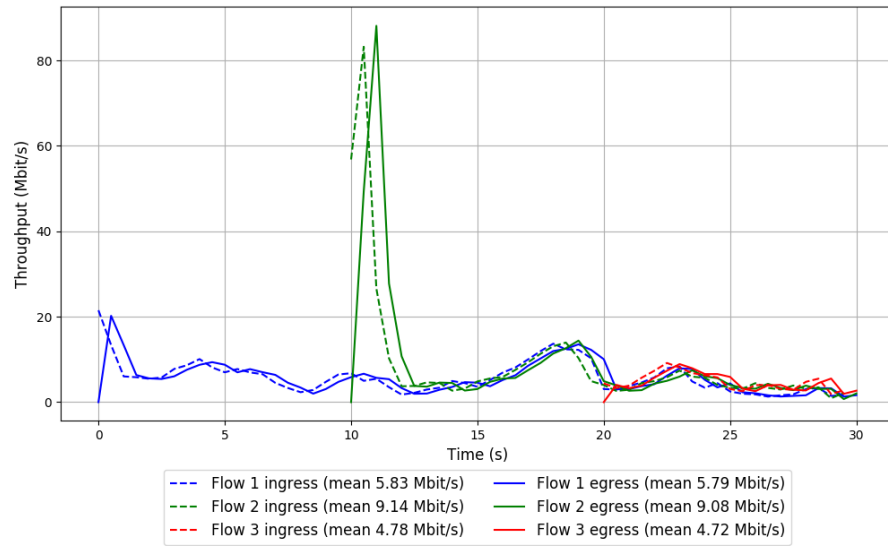


Run 7: Statistics of TCP Cubic

Start at: 2018-05-22 05:25:07  
End at: 2018-05-22 05:25:37  
Local clock offset: 2.102 ms  
Remote clock offset: -7.457 ms

# Below is generated by plot.py at 2018-05-22 06:30:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 13.39 Mbit/s  
95th percentile per-packet one-way delay: 43.263 ms  
Loss rate: 0.78%  
-- Flow 1:  
Average throughput: 5.79 Mbit/s  
95th percentile per-packet one-way delay: 19.479 ms  
Loss rate: 0.75%  
-- Flow 2:  
Average throughput: 9.08 Mbit/s  
95th percentile per-packet one-way delay: 47.677 ms  
Loss rate: 0.67%  
-- Flow 3:  
Average throughput: 4.72 Mbit/s  
95th percentile per-packet one-way delay: 14.014 ms  
Loss rate: 1.31%

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



Run 8: Statistics of TCP Cubic

Start at: 2018-05-22 05:44:05

End at: 2018-05-22 05:44:35

Local clock offset: 1.62 ms

Remote clock offset: 0.598 ms

# Below is generated by plot.py at 2018-05-22 06:30:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 21.75 Mbit/s

95th percentile per-packet one-way delay: 30.897 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 10.51 Mbit/s

95th percentile per-packet one-way delay: 25.148 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 9.93 Mbit/s

95th percentile per-packet one-way delay: 17.627 ms

Loss rate: 0.27%

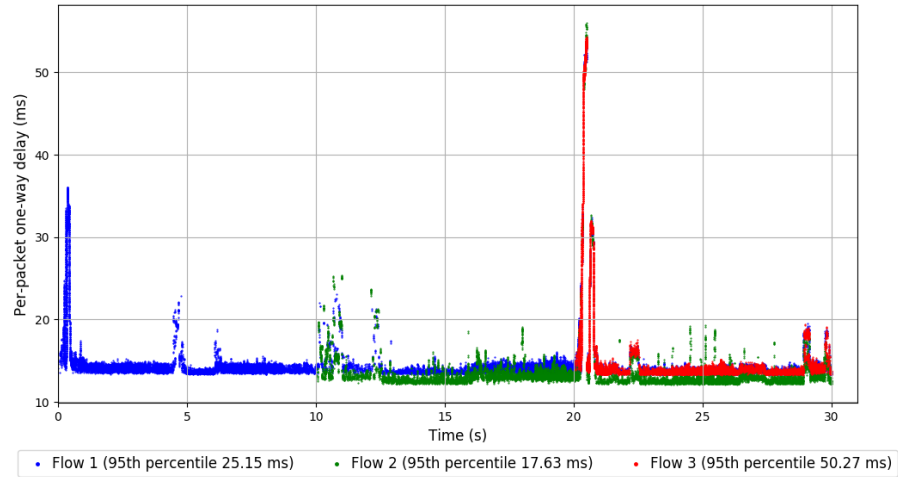
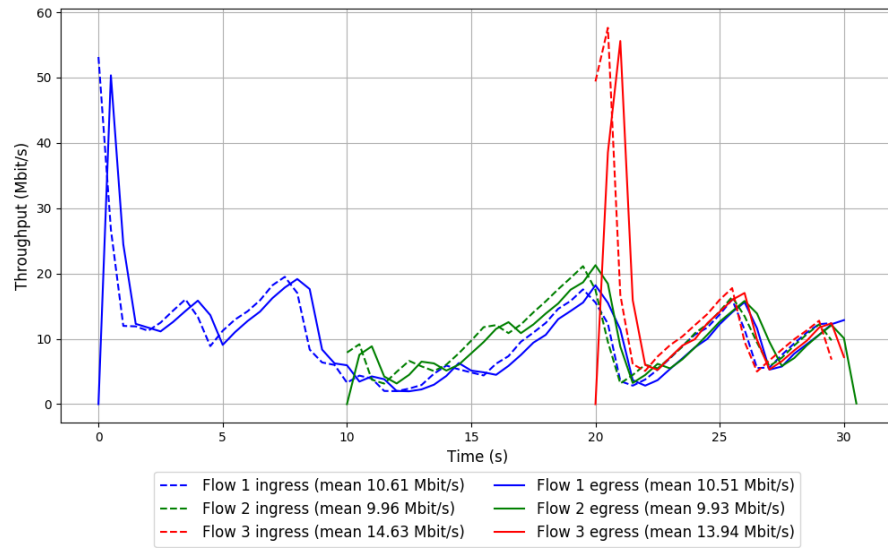
-- Flow 3:

Average throughput: 13.94 Mbit/s

95th percentile per-packet one-way delay: 50.272 ms

Loss rate: 4.75%

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



Run 9: Statistics of TCP Cubic

Start at: 2018-05-22 06:02:31

End at: 2018-05-22 06:03:01

Local clock offset: -0.386 ms

Remote clock offset: 4.637 ms

# Below is generated by plot.py at 2018-05-22 06:30:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 37.54 Mbit/s

95th percentile per-packet one-way delay: 36.810 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 22.70 Mbit/s

95th percentile per-packet one-way delay: 40.011 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 13.70 Mbit/s

95th percentile per-packet one-way delay: 17.456 ms

Loss rate: 0.25%

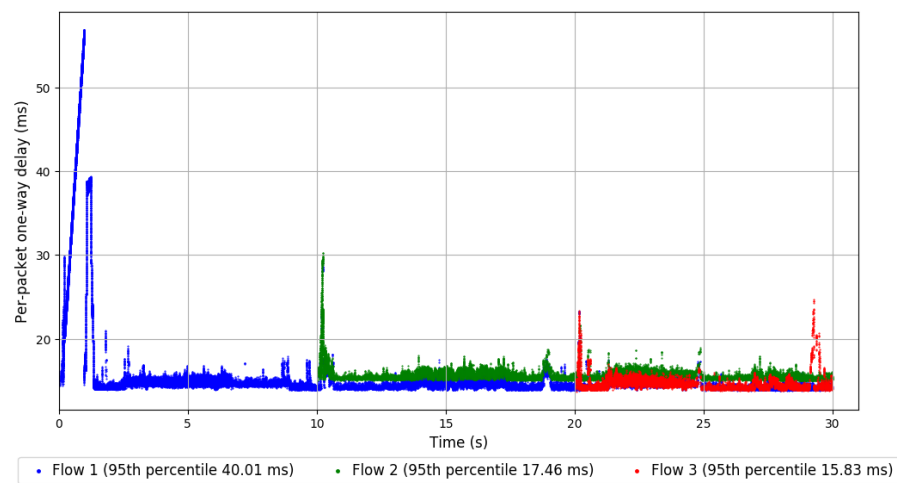
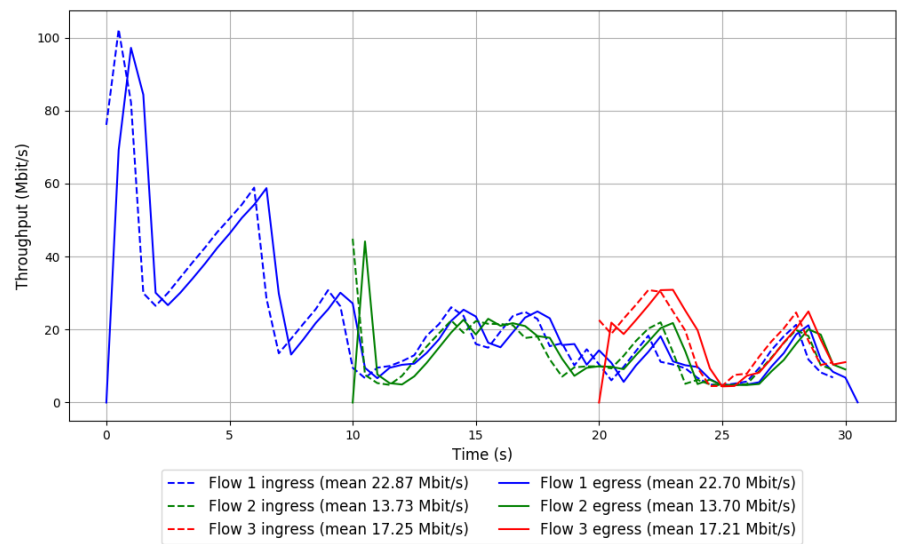
-- Flow 3:

Average throughput: 17.21 Mbit/s

95th percentile per-packet one-way delay: 15.831 ms

Loss rate: 0.22%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-05-22 06:21:07

End at: 2018-05-22 06:21:37

Local clock offset: -0.647 ms

Remote clock offset: 7.413 ms

# Below is generated by plot.py at 2018-05-22 06:30:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 12.45 Mbit/s

95th percentile per-packet one-way delay: 22.249 ms

Loss rate: 1.76%

-- Flow 1:

Average throughput: 6.75 Mbit/s

95th percentile per-packet one-way delay: 24.551 ms

Loss rate: 1.20%

-- Flow 2:

Average throughput: 4.88 Mbit/s

95th percentile per-packet one-way delay: 16.011 ms

Loss rate: 2.65%

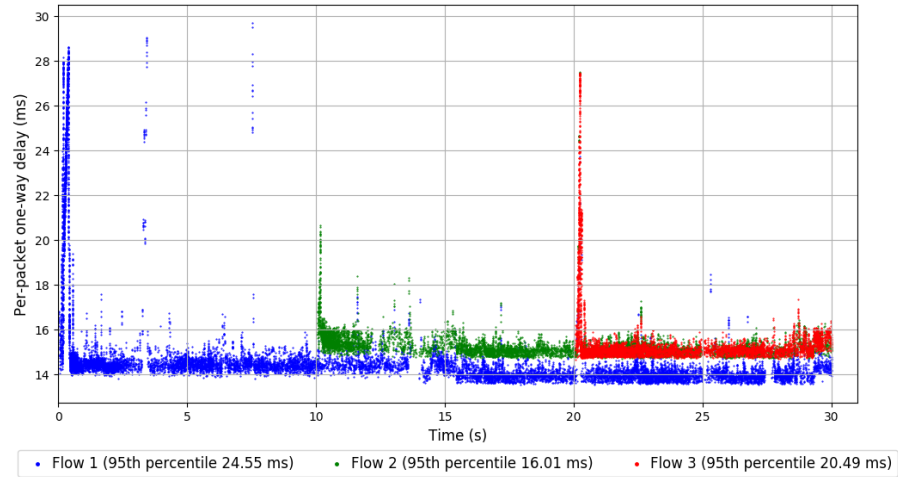
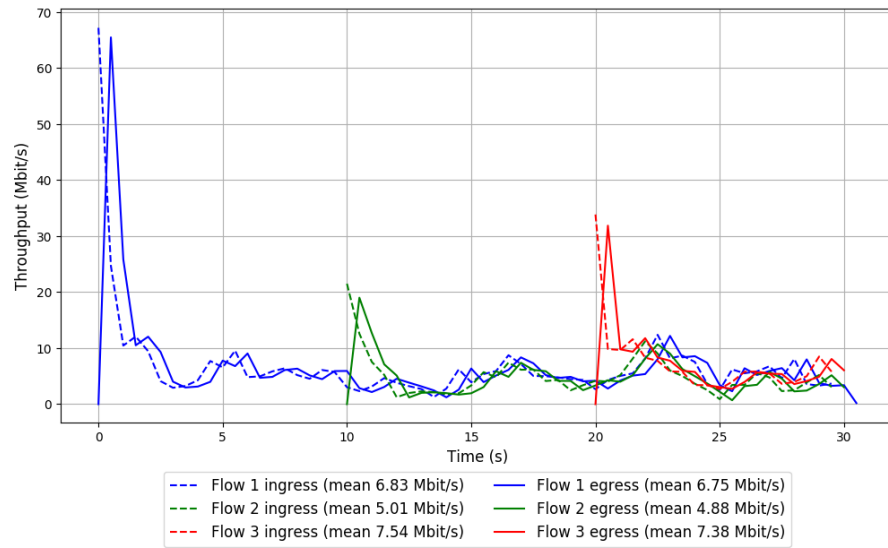
-- Flow 3:

Average throughput: 7.38 Mbit/s

95th percentile per-packet one-way delay: 20.487 ms

Loss rate: 2.09%

# Run 10: Report of TCP Cubic — Data Link

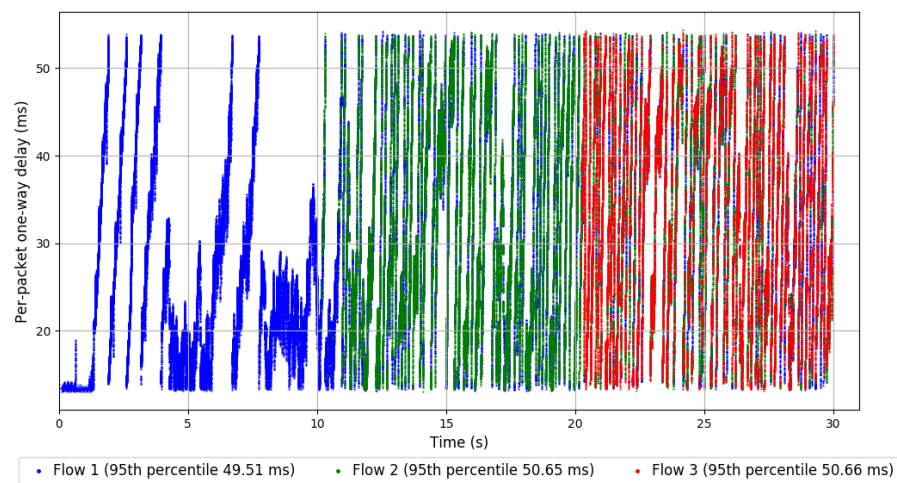
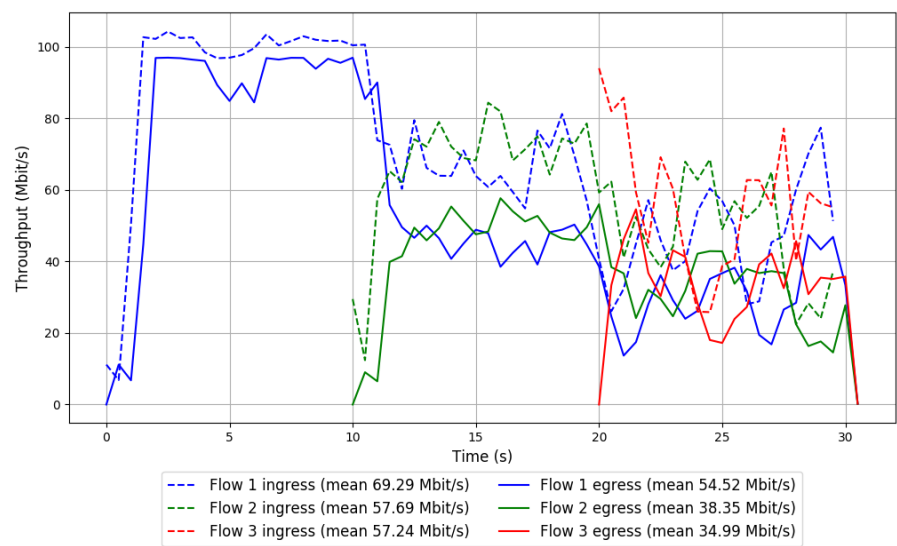


Run 1: Statistics of FillP

Start at: 2018-05-22 03:22:23  
End at: 2018-05-22 03:22:53  
Local clock offset: -7.631 ms  
Remote clock offset: -2.951 ms

# Below is generated by plot.py at 2018-05-22 06:31:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.69 Mbit/s  
95th percentile per-packet one-way delay: 50.094 ms  
Loss rate: 27.53%  
-- Flow 1:  
Average throughput: 54.52 Mbit/s  
95th percentile per-packet one-way delay: 49.513 ms  
Loss rate: 21.22%  
-- Flow 2:  
Average throughput: 38.35 Mbit/s  
95th percentile per-packet one-way delay: 50.649 ms  
Loss rate: 33.42%  
-- Flow 3:  
Average throughput: 34.99 Mbit/s  
95th percentile per-packet one-way delay: 50.660 ms  
Loss rate: 38.69%

Run 1: Report of FillP — Data Link

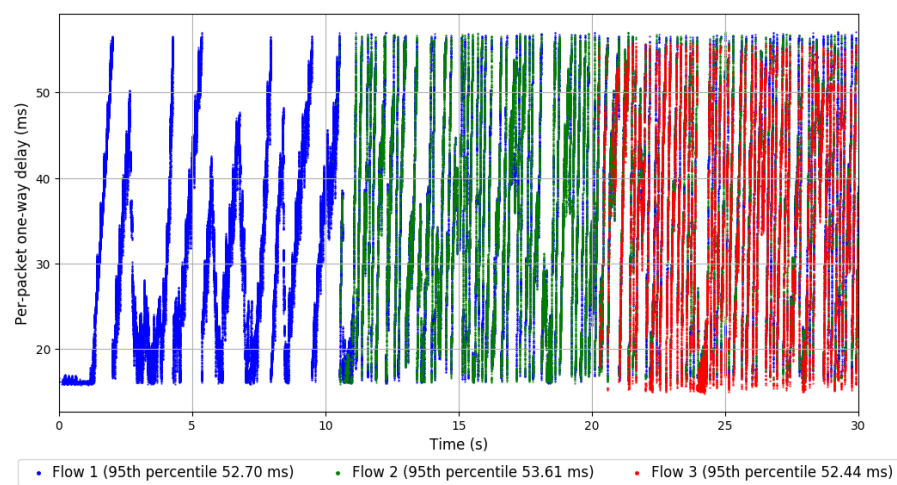
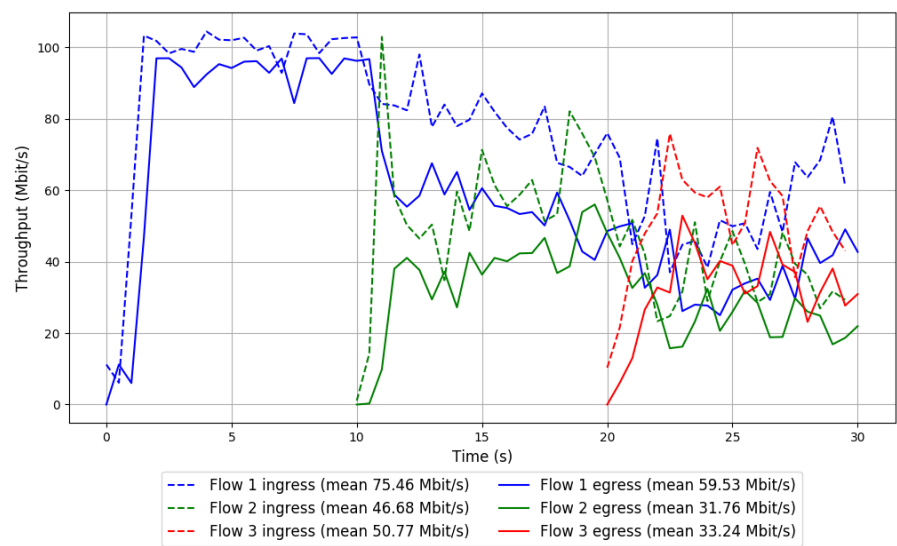


Run 2: Statistics of FillP

Start at: 2018-05-22 03:40:47  
End at: 2018-05-22 03:41:17  
Local clock offset: -0.411 ms  
Remote clock offset: -2.303 ms

# Below is generated by plot.py at 2018-05-22 06:31:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.48 Mbit/s  
95th percentile per-packet one-way delay: 52.914 ms  
Loss rate: 25.81%  
-- Flow 1:  
Average throughput: 59.53 Mbit/s  
95th percentile per-packet one-way delay: 52.699 ms  
Loss rate: 21.05%  
-- Flow 2:  
Average throughput: 31.76 Mbit/s  
95th percentile per-packet one-way delay: 53.610 ms  
Loss rate: 32.68%  
-- Flow 3:  
Average throughput: 33.24 Mbit/s  
95th percentile per-packet one-way delay: 52.435 ms  
Loss rate: 34.45%

Run 2: Report of FillP — Data Link

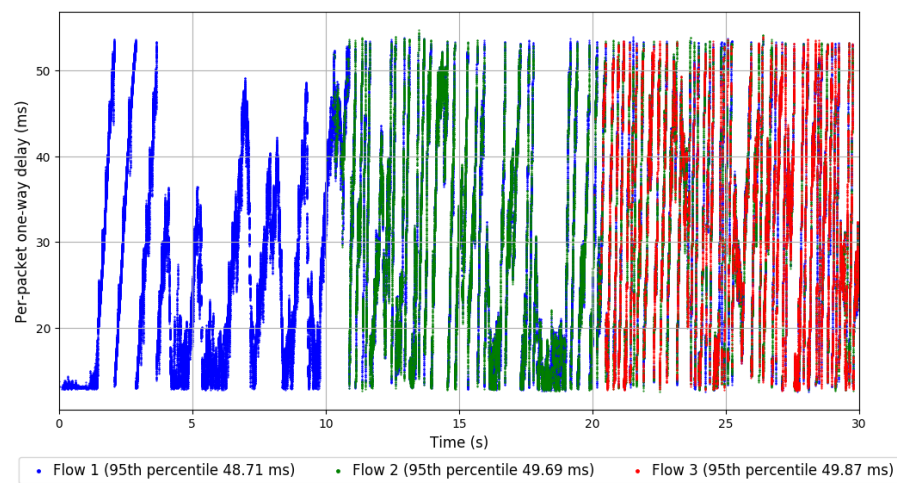
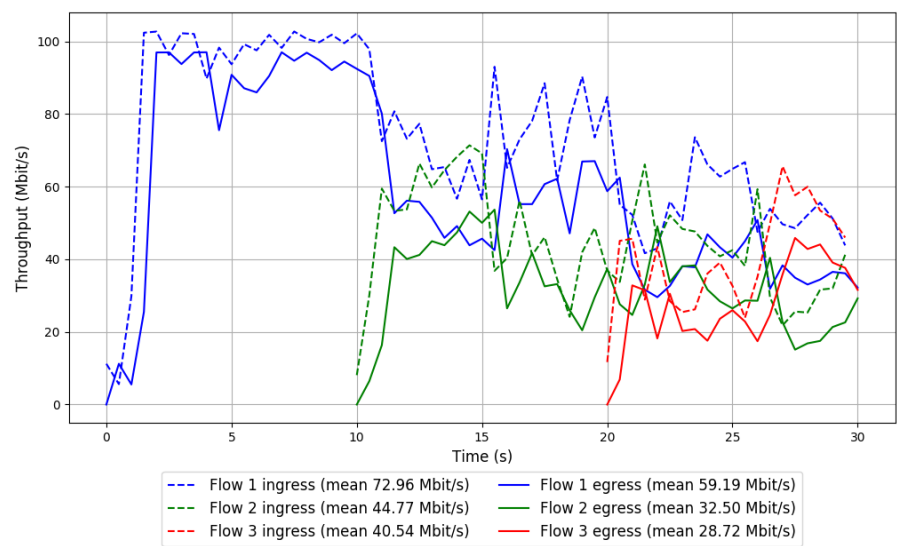


Run 3: Statistics of FillP

Start at: 2018-05-22 03:59:01  
End at: 2018-05-22 03:59:31  
Local clock offset: 0.168 ms  
Remote clock offset: -6.584 ms

# Below is generated by plot.py at 2018-05-22 06:31:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.32 Mbit/s  
95th percentile per-packet one-way delay: 49.149 ms  
Loss rate: 22.25%  
-- Flow 1:  
Average throughput: 59.19 Mbit/s  
95th percentile per-packet one-way delay: 48.707 ms  
Loss rate: 18.83%  
-- Flow 2:  
Average throughput: 32.50 Mbit/s  
95th percentile per-packet one-way delay: 49.692 ms  
Loss rate: 27.45%  
-- Flow 3:  
Average throughput: 28.72 Mbit/s  
95th percentile per-packet one-way delay: 49.868 ms  
Loss rate: 29.22%

Run 3: Report of FillP — Data Link

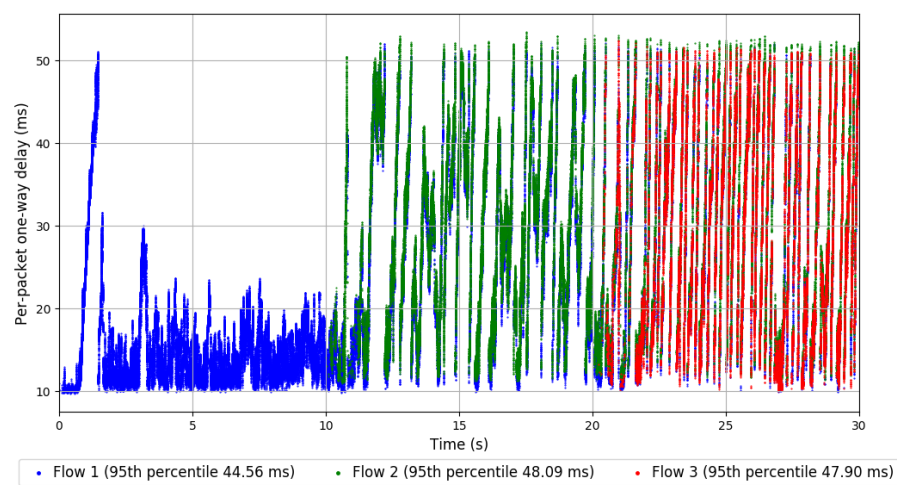
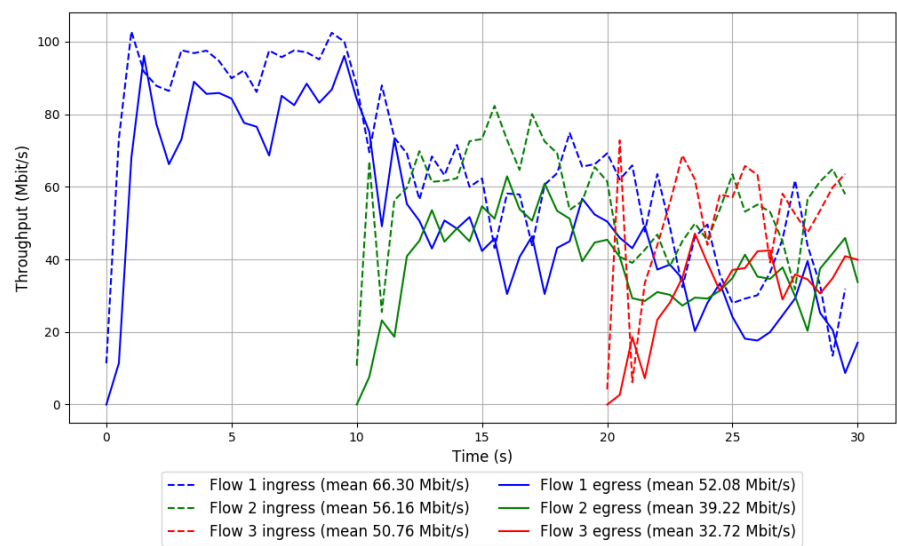


Run 4: Statistics of FillP

Start at: 2018-05-22 04:17:27  
End at: 2018-05-22 04:17:57  
Local clock offset: -3.901 ms  
Remote clock offset: -8.753 ms

# Below is generated by plot.py at 2018-05-22 06:31:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.84 Mbit/s  
95th percentile per-packet one-way delay: 46.531 ms  
Loss rate: 26.29%  
-- Flow 1:  
Average throughput: 52.08 Mbit/s  
95th percentile per-packet one-way delay: 44.565 ms  
Loss rate: 21.41%  
-- Flow 2:  
Average throughput: 39.22 Mbit/s  
95th percentile per-packet one-way delay: 48.093 ms  
Loss rate: 30.18%  
-- Flow 3:  
Average throughput: 32.72 Mbit/s  
95th percentile per-packet one-way delay: 47.904 ms  
Loss rate: 36.84%

Run 4: Report of FillP — Data Link

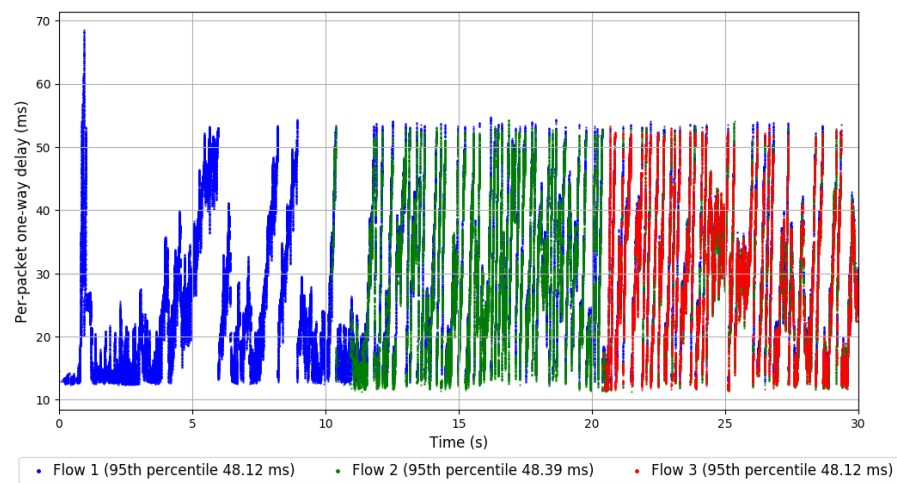
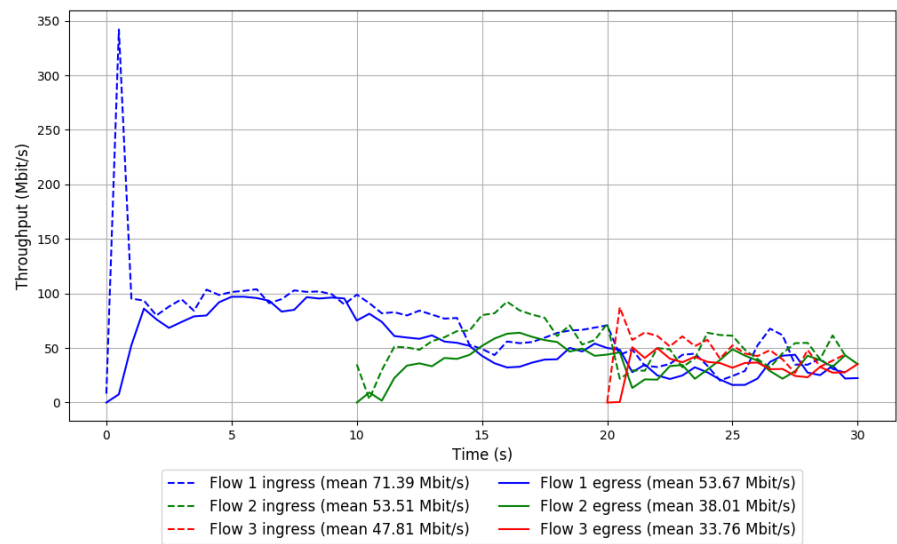


Run 5: Statistics of FillP

Start at: 2018-05-22 04:35:48  
End at: 2018-05-22 04:36:18  
Local clock offset: 0.526 ms  
Remote clock offset: -9.092 ms

# Below is generated by plot.py at 2018-05-22 06:31:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.18 Mbit/s  
95th percentile per-packet one-way delay: 48.201 ms  
Loss rate: 26.57%  
-- Flow 1:  
Average throughput: 53.67 Mbit/s  
95th percentile per-packet one-way delay: 48.118 ms  
Loss rate: 24.78%  
-- Flow 2:  
Average throughput: 38.01 Mbit/s  
95th percentile per-packet one-way delay: 48.392 ms  
Loss rate: 28.91%  
-- Flow 3:  
Average throughput: 33.76 Mbit/s  
95th percentile per-packet one-way delay: 48.117 ms  
Loss rate: 29.37%

Run 5: Report of FillP — Data Link

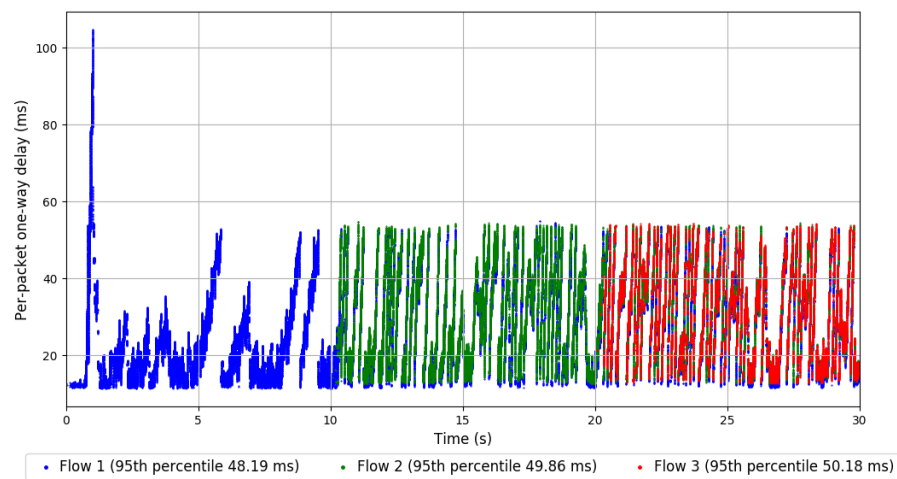
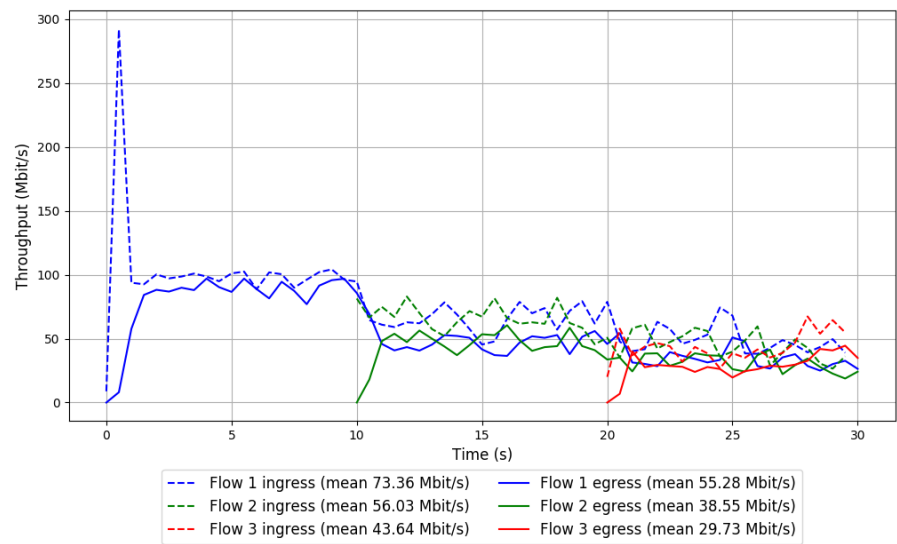


Run 6: Statistics of FillP

Start at: 2018-05-22 04:54:12  
End at: 2018-05-22 04:54:42  
Local clock offset: -4.858 ms  
Remote clock offset: -18.476 ms

# Below is generated by plot.py at 2018-05-22 06:31:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.79 Mbit/s  
95th percentile per-packet one-way delay: 49.049 ms  
Loss rate: 27.43%  
-- Flow 1:  
Average throughput: 55.28 Mbit/s  
95th percentile per-packet one-way delay: 48.190 ms  
Loss rate: 24.64%  
-- Flow 2:  
Average throughput: 38.55 Mbit/s  
95th percentile per-packet one-way delay: 49.864 ms  
Loss rate: 31.20%  
-- Flow 3:  
Average throughput: 29.73 Mbit/s  
95th percentile per-packet one-way delay: 50.180 ms  
Loss rate: 31.91%

Run 6: Report of FillP — Data Link

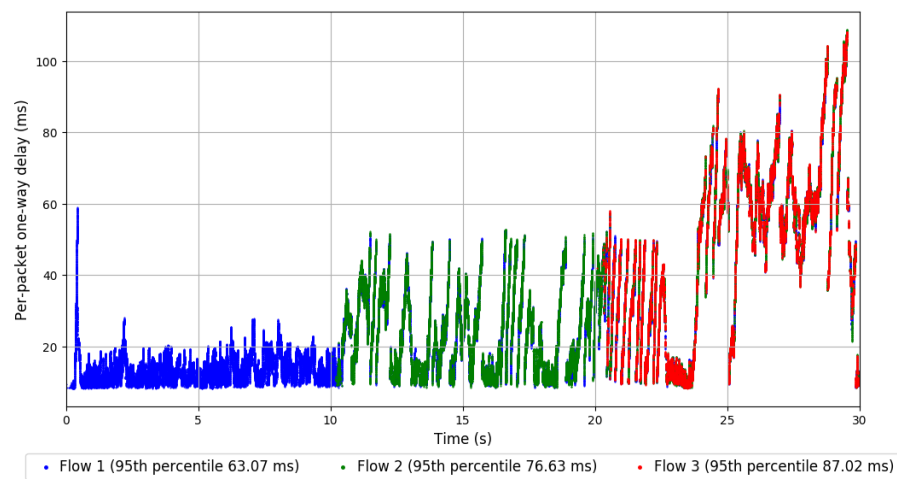
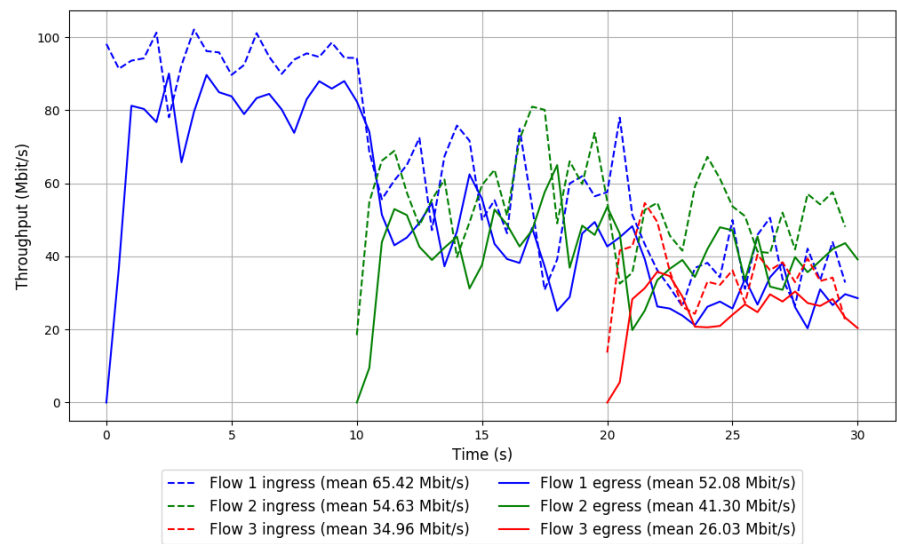


Run 7: Statistics of FillP

Start at: 2018-05-22 05:12:54  
End at: 2018-05-22 05:13:24  
Local clock offset: 4.037 ms  
Remote clock offset: -14.857 ms

# Below is generated by plot.py at 2018-05-22 06:32:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.15 Mbit/s  
95th percentile per-packet one-way delay: 72.879 ms  
Loss rate: 22.24%  
-- Flow 1:  
Average throughput: 52.08 Mbit/s  
95th percentile per-packet one-way delay: 63.071 ms  
Loss rate: 20.40%  
-- Flow 2:  
Average throughput: 41.30 Mbit/s  
95th percentile per-packet one-way delay: 76.630 ms  
Loss rate: 24.43%  
-- Flow 3:  
Average throughput: 26.03 Mbit/s  
95th percentile per-packet one-way delay: 87.024 ms  
Loss rate: 25.75%

Run 7: Report of FillP — Data Link

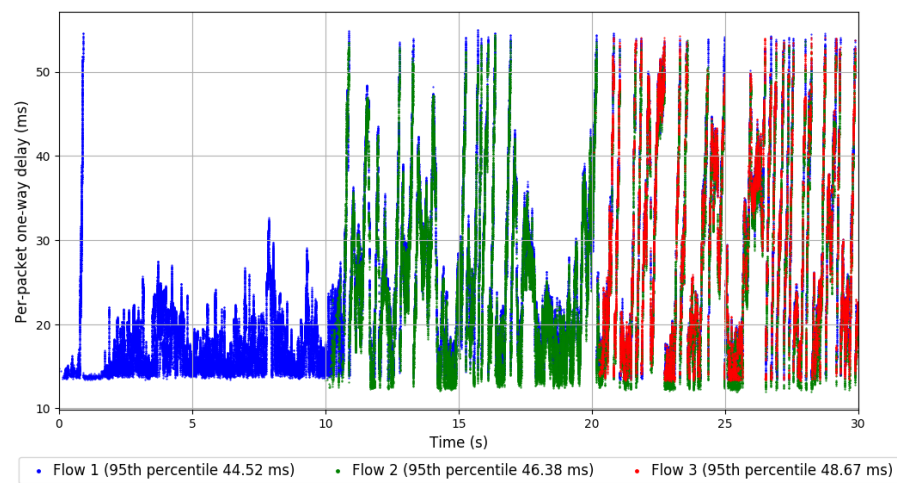
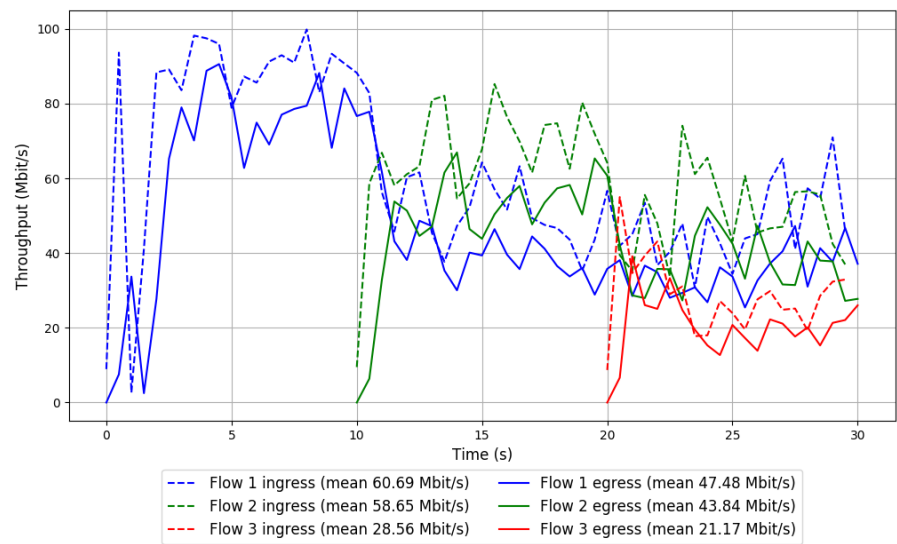


Run 8: Statistics of FillP

Start at: 2018-05-22 05:31:47  
End at: 2018-05-22 05:32:17  
Local clock offset: 1.745 ms  
Remote clock offset: -3.299 ms

# Below is generated by plot.py at 2018-05-22 06:32:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.69 Mbit/s  
95th percentile per-packet one-way delay: 45.998 ms  
Loss rate: 23.36%  
-- Flow 1:  
Average throughput: 47.48 Mbit/s  
95th percentile per-packet one-way delay: 44.519 ms  
Loss rate: 21.74%  
-- Flow 2:  
Average throughput: 43.84 Mbit/s  
95th percentile per-packet one-way delay: 46.379 ms  
Loss rate: 25.22%  
-- Flow 3:  
Average throughput: 21.17 Mbit/s  
95th percentile per-packet one-way delay: 48.673 ms  
Loss rate: 25.99%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-05-22 05:50:43

End at: 2018-05-22 05:51:13

Local clock offset: 2.984 ms

Remote clock offset: 0.41 ms

# Below is generated by plot.py at 2018-05-22 06:32:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.99 Mbit/s

95th percentile per-packet one-way delay: 44.086 ms

Loss rate: 24.53%

-- Flow 1:

Average throughput: 56.04 Mbit/s

95th percentile per-packet one-way delay: 43.111 ms

Loss rate: 22.81%

-- Flow 2:

Average throughput: 33.79 Mbit/s

95th percentile per-packet one-way delay: 45.115 ms

Loss rate: 27.25%

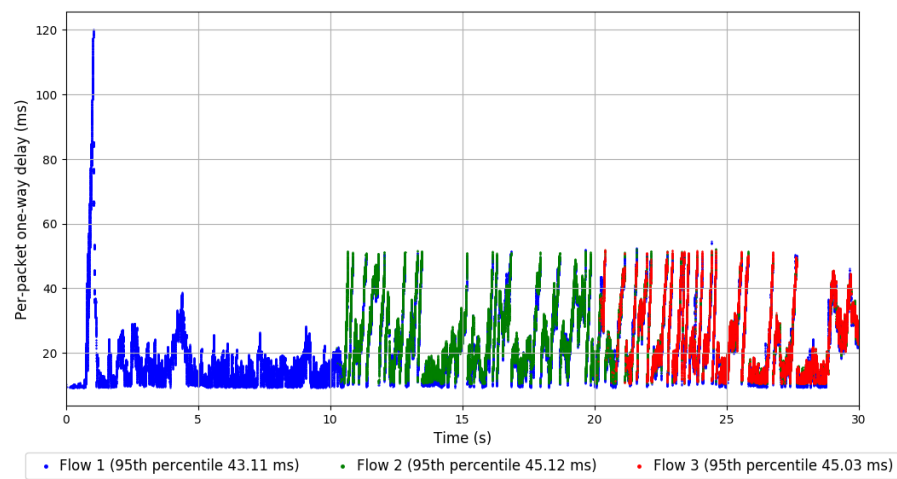
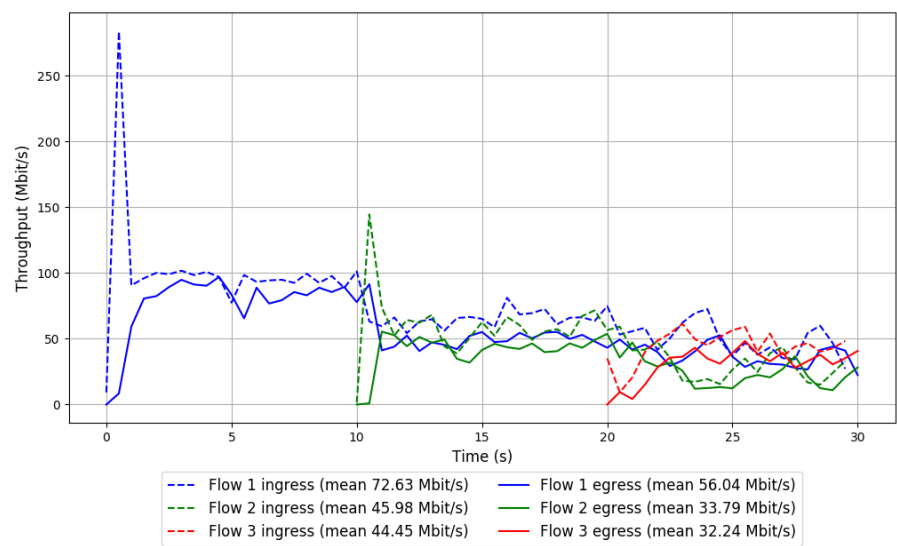
-- Flow 3:

Average throughput: 32.24 Mbit/s

95th percentile per-packet one-way delay: 45.029 ms

Loss rate: 27.34%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-05-22 06:09:14

End at: 2018-05-22 06:09:44

Local clock offset: 1.53 ms

Remote clock offset: 5.256 ms

# Below is generated by plot.py at 2018-05-22 06:32:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.76 Mbit/s

95th percentile per-packet one-way delay: 48.268 ms

Loss rate: 24.57%

-- Flow 1:

Average throughput: 55.13 Mbit/s

95th percentile per-packet one-way delay: 46.429 ms

Loss rate: 21.02%

-- Flow 2:

Average throughput: 38.39 Mbit/s

95th percentile per-packet one-way delay: 49.744 ms

Loss rate: 29.54%

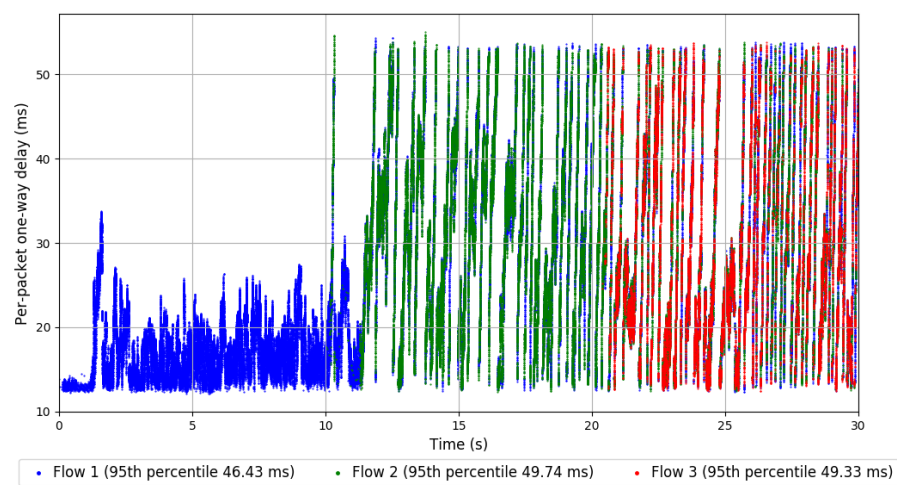
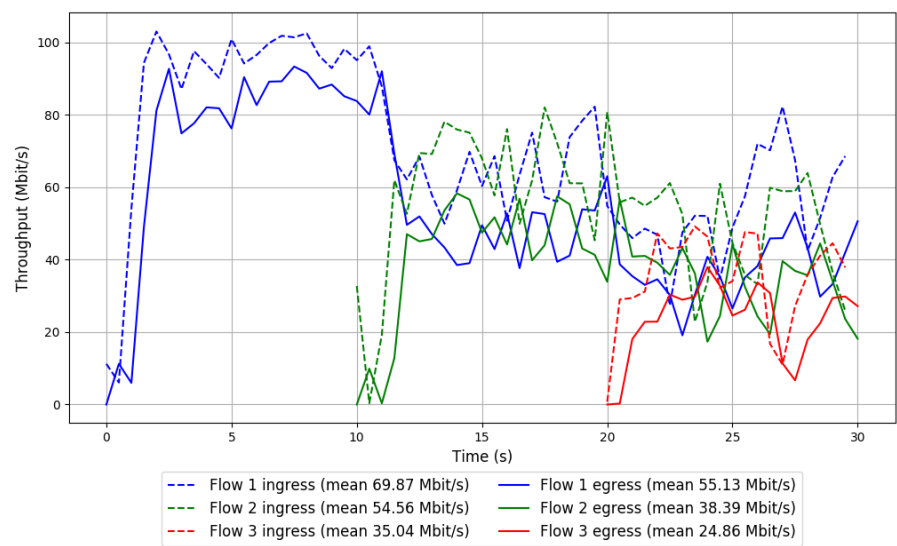
-- Flow 3:

Average throughput: 24.86 Mbit/s

95th percentile per-packet one-way delay: 49.331 ms

Loss rate: 30.39%

Run 10: Report of FillP — Data Link

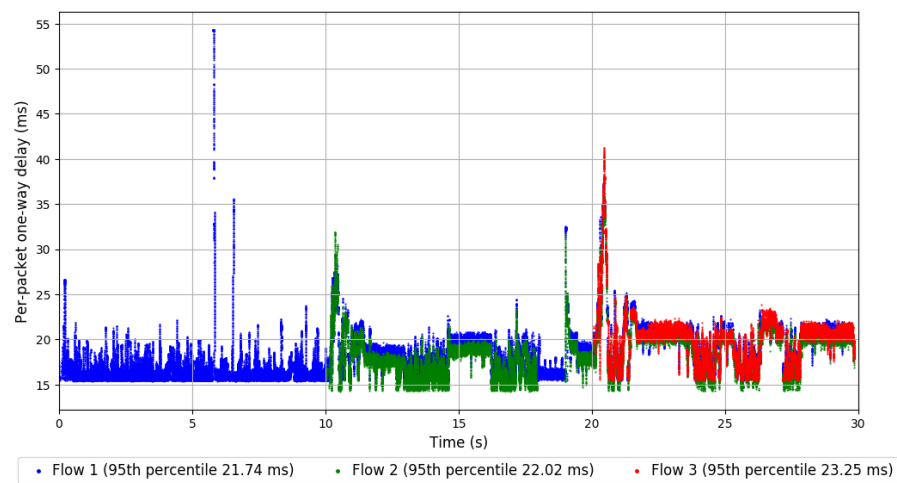
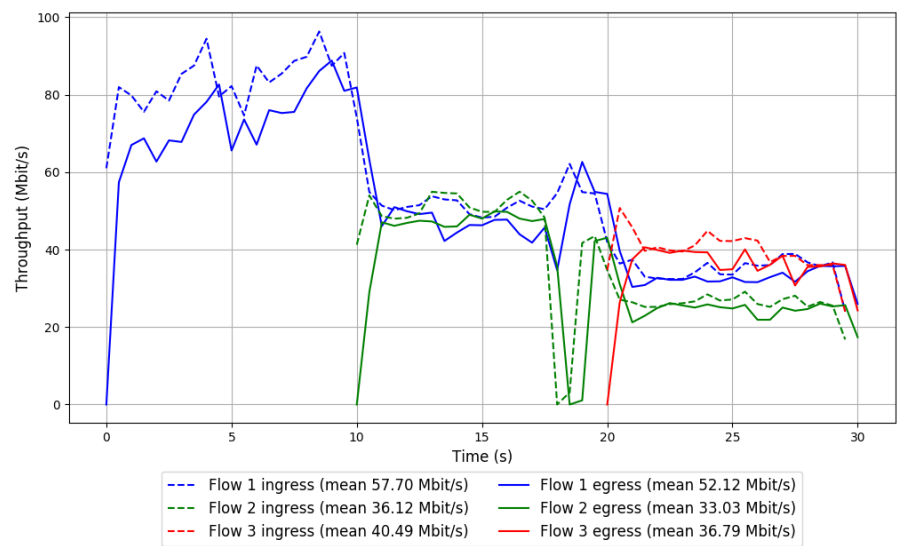


Run 1: Statistics of Indigo

Start at: 2018-05-22 03:23:32  
End at: 2018-05-22 03:24:02  
Local clock offset: -8.294 ms  
Remote clock offset: -1.509 ms

# Below is generated by plot.py at 2018-05-22 06:32:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.09 Mbit/s  
95th percentile per-packet one-way delay: 22.053 ms  
Loss rate: 9.32%  
-- Flow 1:  
Average throughput: 52.12 Mbit/s  
95th percentile per-packet one-way delay: 21.742 ms  
Loss rate: 9.67%  
-- Flow 2:  
Average throughput: 33.03 Mbit/s  
95th percentile per-packet one-way delay: 22.023 ms  
Loss rate: 8.54%  
-- Flow 3:  
Average throughput: 36.79 Mbit/s  
95th percentile per-packet one-way delay: 23.249 ms  
Loss rate: 9.17%

Run 1: Report of Indigo — Data Link

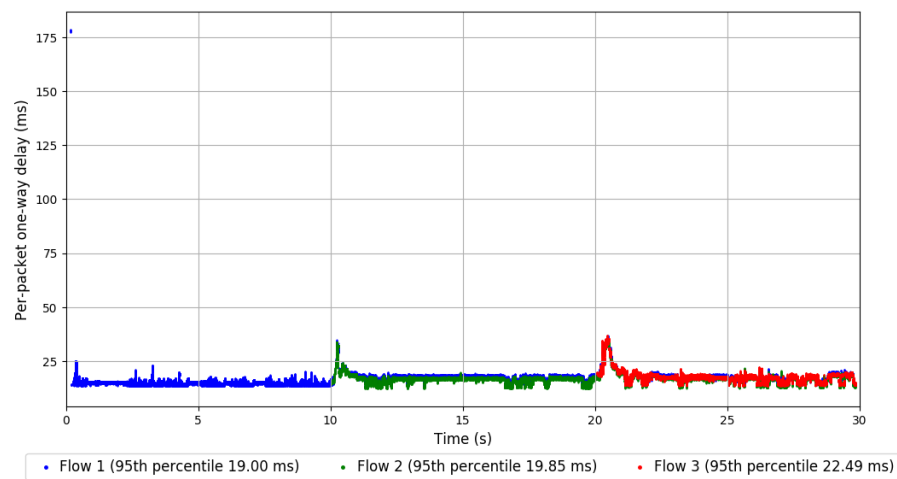
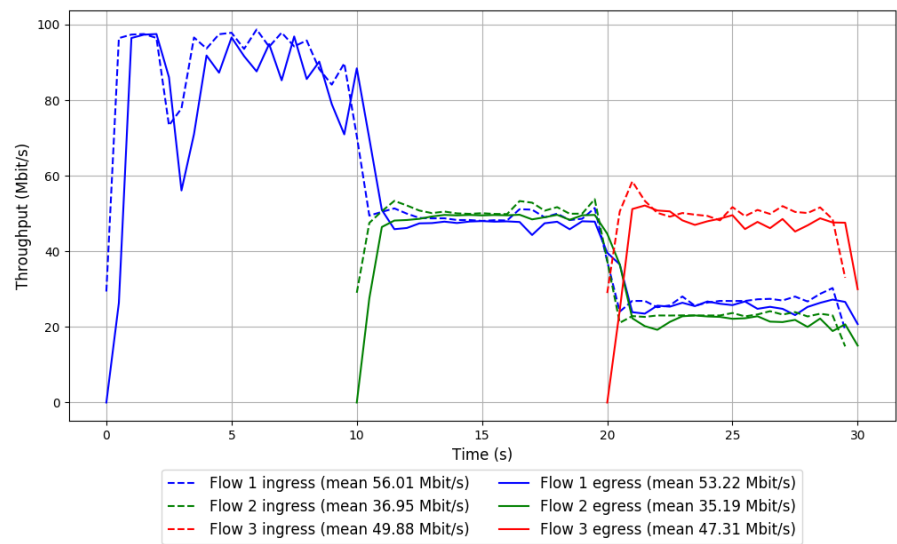


Run 2: Statistics of Indigo

Start at: 2018-05-22 03:41:57  
End at: 2018-05-22 03:42:27  
Local clock offset: 1.982 ms  
Remote clock offset: -3.039 ms

# Below is generated by plot.py at 2018-05-22 06:32:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.29 Mbit/s  
95th percentile per-packet one-way delay: 19.821 ms  
Loss rate: 5.26%  
-- Flow 1:  
Average throughput: 53.22 Mbit/s  
95th percentile per-packet one-way delay: 18.997 ms  
Loss rate: 5.49%  
-- Flow 2:  
Average throughput: 35.19 Mbit/s  
95th percentile per-packet one-way delay: 19.848 ms  
Loss rate: 4.75%  
-- Flow 3:  
Average throughput: 47.31 Mbit/s  
95th percentile per-packet one-way delay: 22.487 ms  
Loss rate: 5.20%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-05-22 04:00:12

End at: 2018-05-22 04:00:42

Local clock offset: 1.372 ms

Remote clock offset: -5.79 ms

# Below is generated by plot.py at 2018-05-22 06:32:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.61 Mbit/s

95th percentile per-packet one-way delay: 19.283 ms

Loss rate: 12.16%

-- Flow 1:

Average throughput: 53.13 Mbit/s

95th percentile per-packet one-way delay: 18.314 ms

Loss rate: 10.56%

-- Flow 2:

Average throughput: 36.11 Mbit/s

95th percentile per-packet one-way delay: 19.486 ms

Loss rate: 13.46%

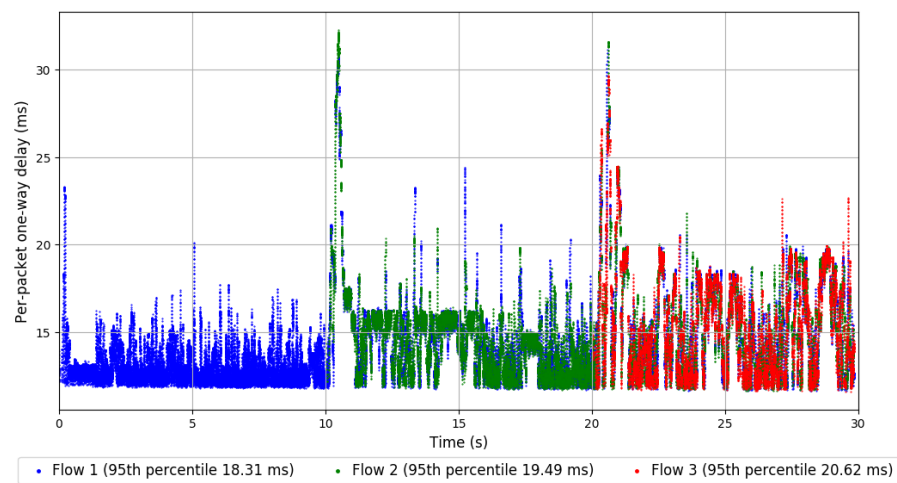
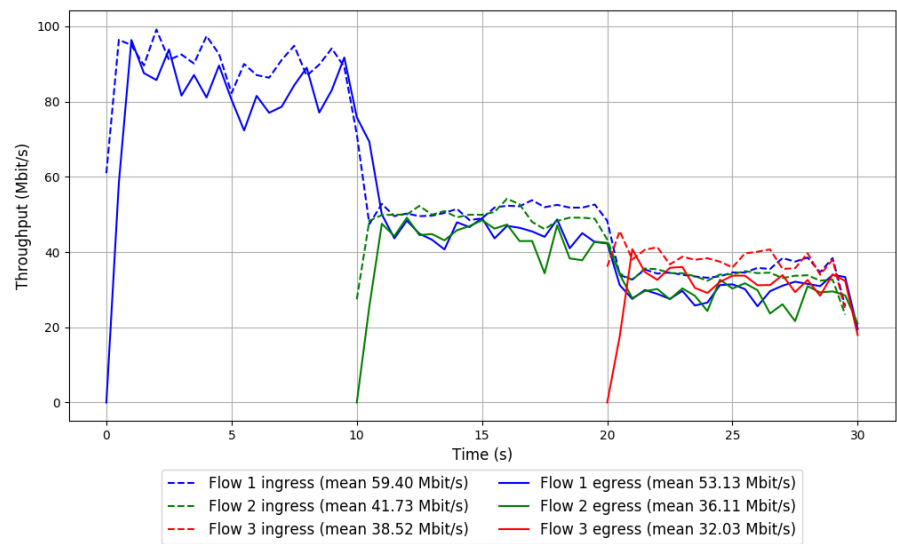
-- Flow 3:

Average throughput: 32.03 Mbit/s

95th percentile per-packet one-way delay: 20.621 ms

Loss rate: 16.84%

Run 3: Report of Indigo — Data Link

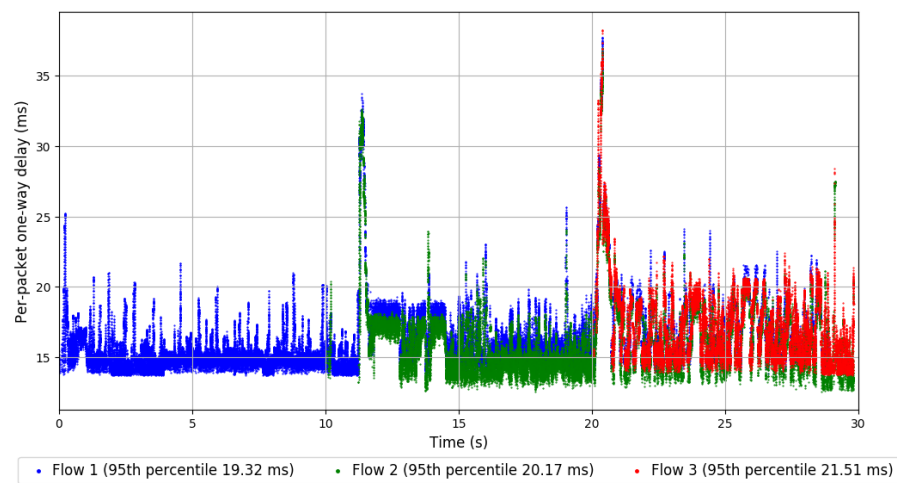
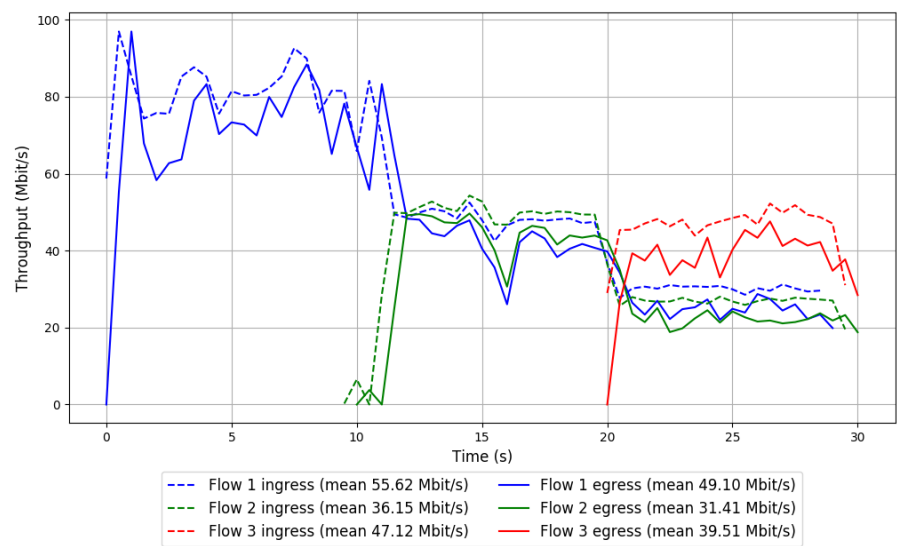


Run 4: Statistics of Indigo

Start at: 2018-05-22 04:18:39  
End at: 2018-05-22 04:19:09  
Local clock offset: -4.416 ms  
Remote clock offset: -6.783 ms

# Below is generated by plot.py at 2018-05-22 06:32:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.50 Mbit/s  
95th percentile per-packet one-way delay: 20.137 ms  
Loss rate: 12.85%  
-- Flow 1:  
Average throughput: 49.10 Mbit/s  
95th percentile per-packet one-way delay: 19.321 ms  
Loss rate: 11.80%  
-- Flow 2:  
Average throughput: 31.41 Mbit/s  
95th percentile per-packet one-way delay: 20.167 ms  
Loss rate: 13.10%  
-- Flow 3:  
Average throughput: 39.51 Mbit/s  
95th percentile per-packet one-way delay: 21.514 ms  
Loss rate: 16.12%

Run 4: Report of Indigo — Data Link

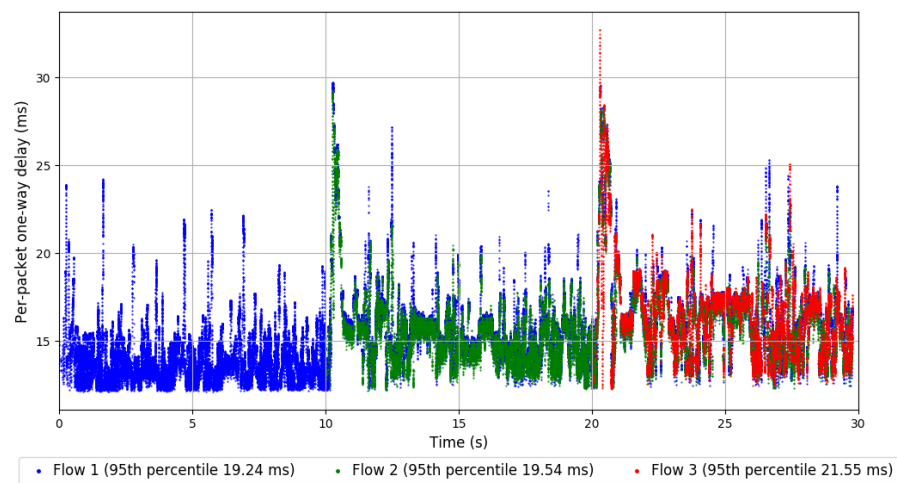
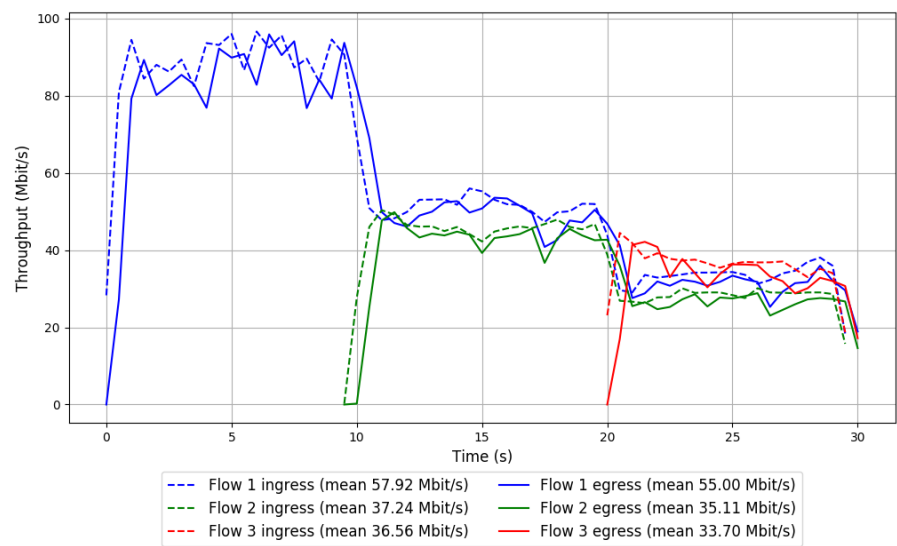


Run 5: Statistics of Indigo

Start at: 2018-05-22 04:37:00  
End at: 2018-05-22 04:37:30  
Local clock offset: -2.472 ms  
Remote clock offset: -11.706 ms

# Below is generated by plot.py at 2018-05-22 06:33:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.31 Mbit/s  
95th percentile per-packet one-way delay: 19.663 ms  
Loss rate: 5.56%  
-- Flow 1:  
Average throughput: 55.00 Mbit/s  
95th percentile per-packet one-way delay: 19.243 ms  
Loss rate: 5.02%  
-- Flow 2:  
Average throughput: 35.11 Mbit/s  
95th percentile per-packet one-way delay: 19.541 ms  
Loss rate: 5.72%  
-- Flow 3:  
Average throughput: 33.70 Mbit/s  
95th percentile per-packet one-way delay: 21.550 ms  
Loss rate: 7.81%

Run 5: Report of Indigo — Data Link

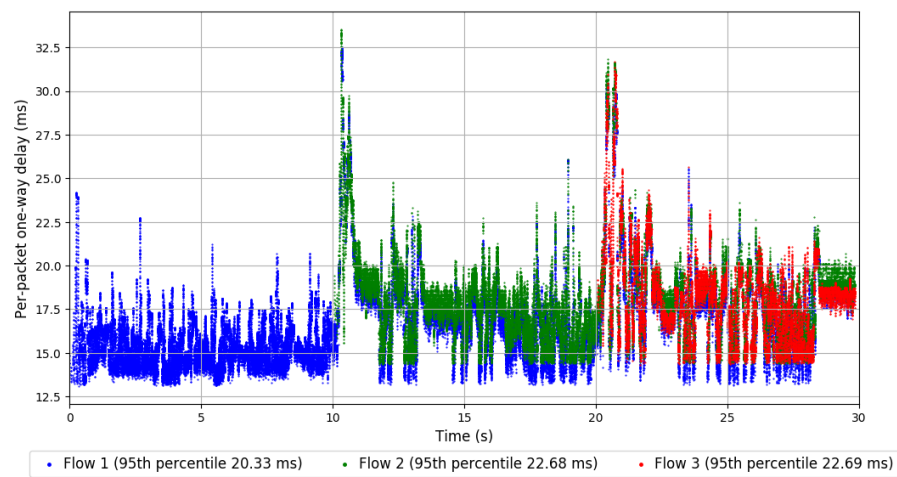
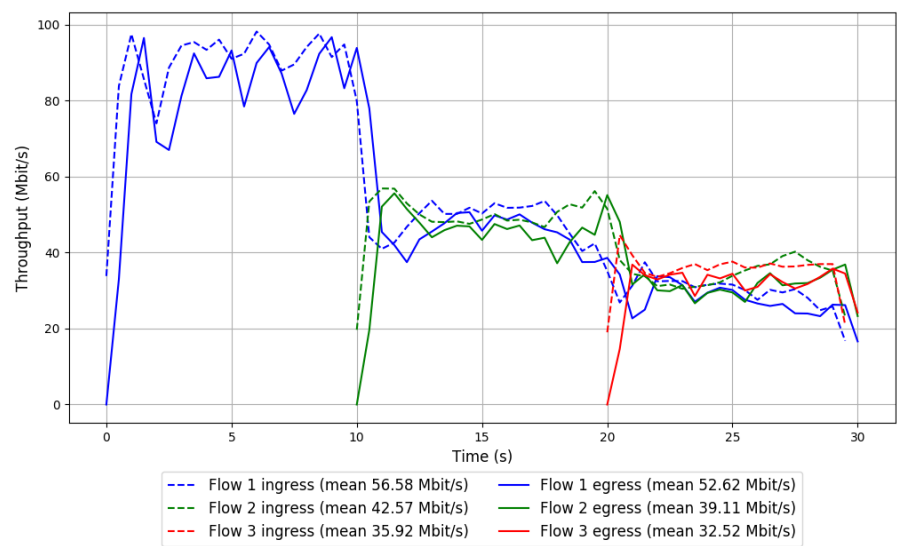


Run 6: Statistics of Indigo

Start at: 2018-05-22 04:55:25  
End at: 2018-05-22 04:55:55  
Local clock offset: -0.348 ms  
Remote clock offset: -12.656 ms

# Below is generated by plot.py at 2018-05-22 06:33:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.19 Mbit/s  
95th percentile per-packet one-way delay: 21.526 ms  
Loss rate: 7.61%  
-- Flow 1:  
Average throughput: 52.62 Mbit/s  
95th percentile per-packet one-way delay: 20.331 ms  
Loss rate: 6.97%  
-- Flow 2:  
Average throughput: 39.11 Mbit/s  
95th percentile per-packet one-way delay: 22.677 ms  
Loss rate: 8.11%  
-- Flow 3:  
Average throughput: 32.52 Mbit/s  
95th percentile per-packet one-way delay: 22.690 ms  
Loss rate: 9.48%

Run 6: Report of Indigo — Data Link

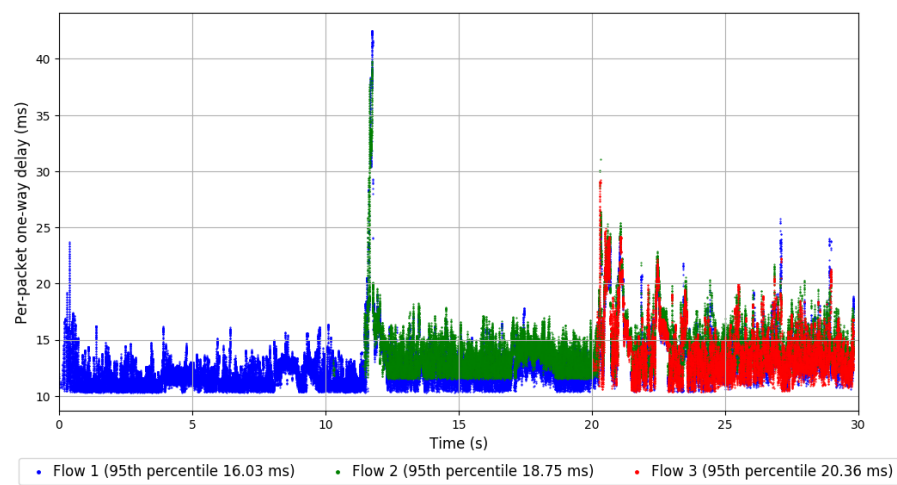
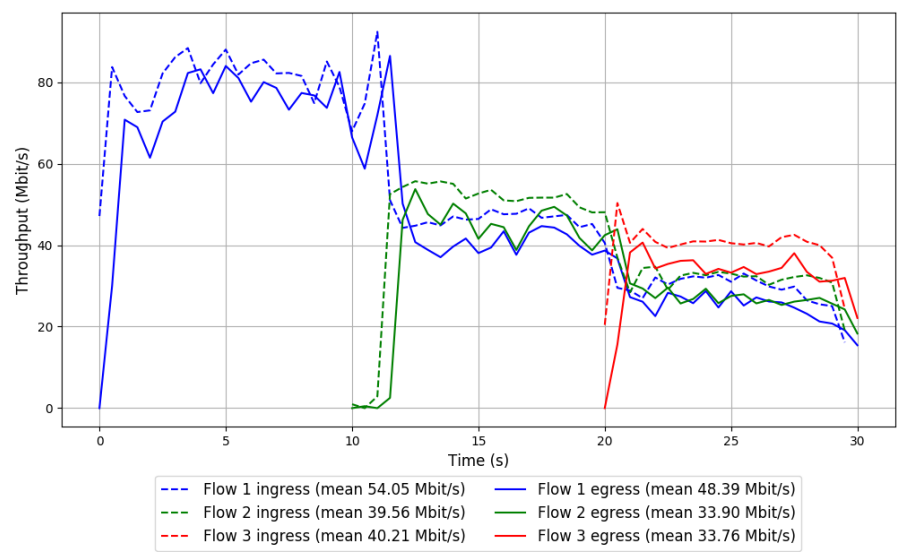


Run 7: Statistics of Indigo

Start at: 2018-05-22 05:14:05  
End at: 2018-05-22 05:14:35  
Local clock offset: 4.148 ms  
Remote clock offset: -13.023 ms

# Below is generated by plot.py at 2018-05-22 06:33:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.67 Mbit/s  
95th percentile per-packet one-way delay: 17.512 ms  
Loss rate: 12.30%  
-- Flow 1:  
Average throughput: 48.39 Mbit/s  
95th percentile per-packet one-way delay: 16.029 ms  
Loss rate: 10.45%  
-- Flow 2:  
Average throughput: 33.90 Mbit/s  
95th percentile per-packet one-way delay: 18.755 ms  
Loss rate: 14.27%  
-- Flow 3:  
Average throughput: 33.76 Mbit/s  
95th percentile per-packet one-way delay: 20.357 ms  
Loss rate: 16.02%

Run 7: Report of Indigo — Data Link

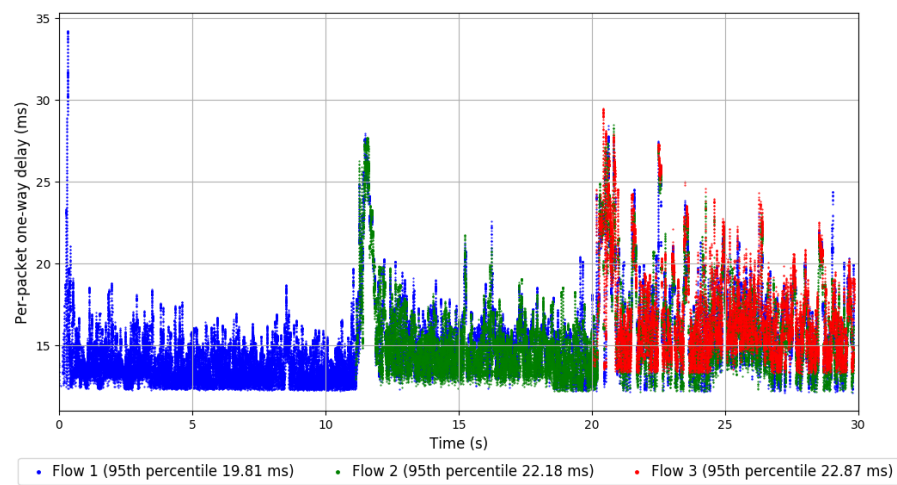
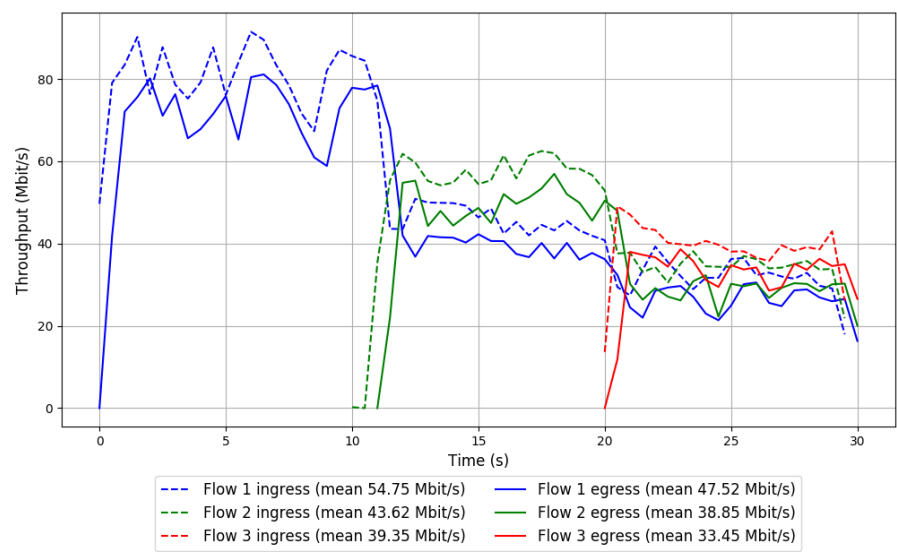


Run 8: Statistics of Indigo

Start at: 2018-05-22 05:33:00  
End at: 2018-05-22 05:33:30  
Local clock offset: 1.285 ms  
Remote clock offset: -3.264 ms

# Below is generated by plot.py at 2018-05-22 06:33:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.93 Mbit/s  
95th percentile per-packet one-way delay: 21.254 ms  
Loss rate: 14.11%  
-- Flow 1:  
Average throughput: 47.52 Mbit/s  
95th percentile per-packet one-way delay: 19.814 ms  
Loss rate: 13.20%  
-- Flow 2:  
Average throughput: 38.85 Mbit/s  
95th percentile per-packet one-way delay: 22.182 ms  
Loss rate: 15.46%  
-- Flow 3:  
Average throughput: 33.45 Mbit/s  
95th percentile per-packet one-way delay: 22.872 ms  
Loss rate: 14.93%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-05-22 05:51:55

End at: 2018-05-22 05:52:25

Local clock offset: 0.98 ms

Remote clock offset: 2.022 ms

# Below is generated by plot.py at 2018-05-22 06:33:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.84 Mbit/s

95th percentile per-packet one-way delay: 21.201 ms

Loss rate: 7.58%

-- Flow 1:

Average throughput: 47.61 Mbit/s

95th percentile per-packet one-way delay: 20.106 ms

Loss rate: 7.08%

-- Flow 2:

Average throughput: 44.28 Mbit/s

95th percentile per-packet one-way delay: 21.225 ms

Loss rate: 7.89%

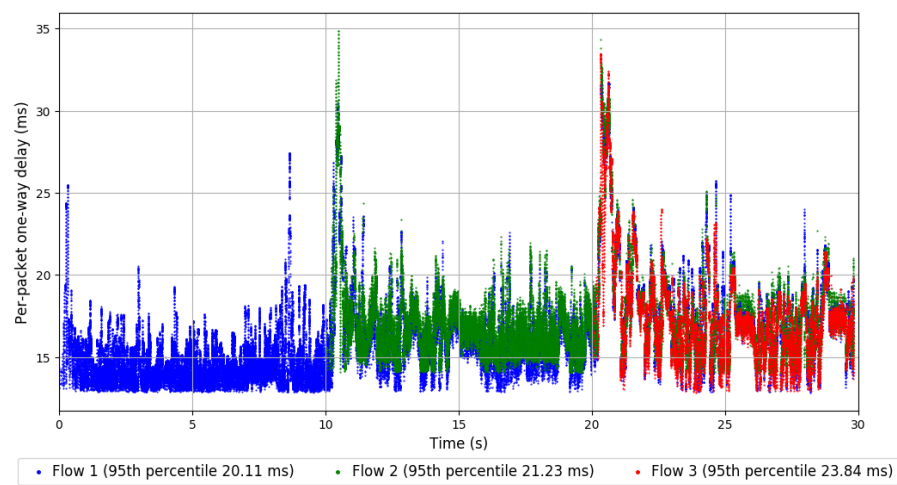
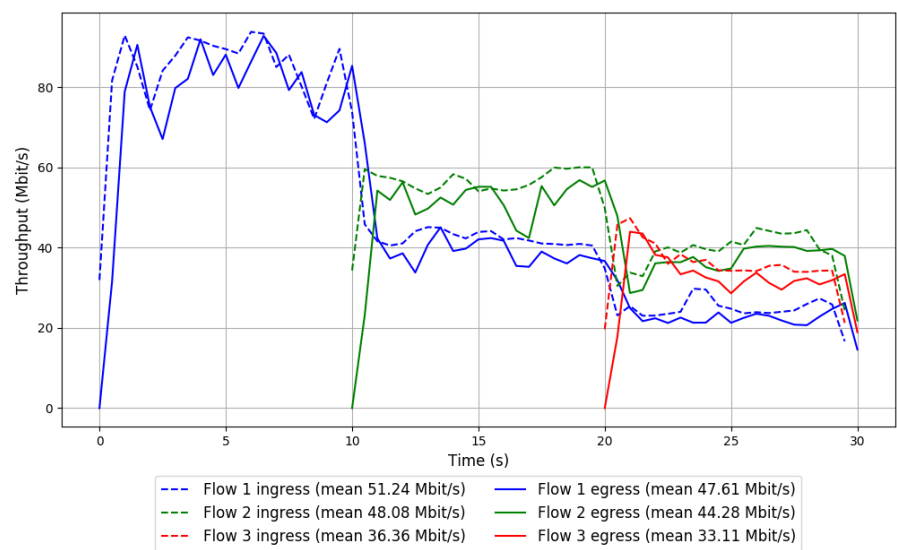
-- Flow 3:

Average throughput: 33.11 Mbit/s

95th percentile per-packet one-way delay: 23.839 ms

Loss rate: 8.92%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-05-22 06:10:25

End at: 2018-05-22 06:10:55

Local clock offset: -1.979 ms

Remote clock offset: -0.41 ms

# Below is generated by plot.py at 2018-05-22 06:33:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 83.74 Mbit/s

95th percentile per-packet one-way delay: 17.347 ms

Loss rate: 14.62%

-- Flow 1:

Average throughput: 50.17 Mbit/s

95th percentile per-packet one-way delay: 16.338 ms

Loss rate: 12.49%

-- Flow 2:

Average throughput: 35.28 Mbit/s

95th percentile per-packet one-way delay: 17.743 ms

Loss rate: 15.98%

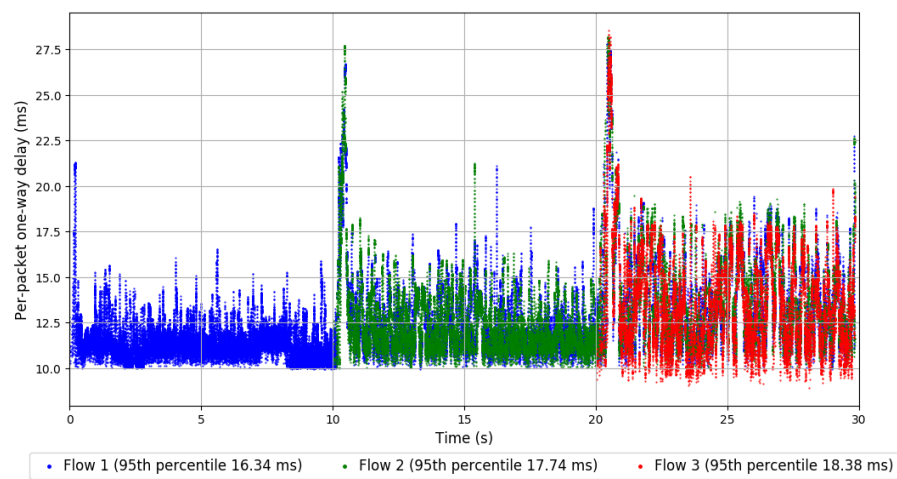
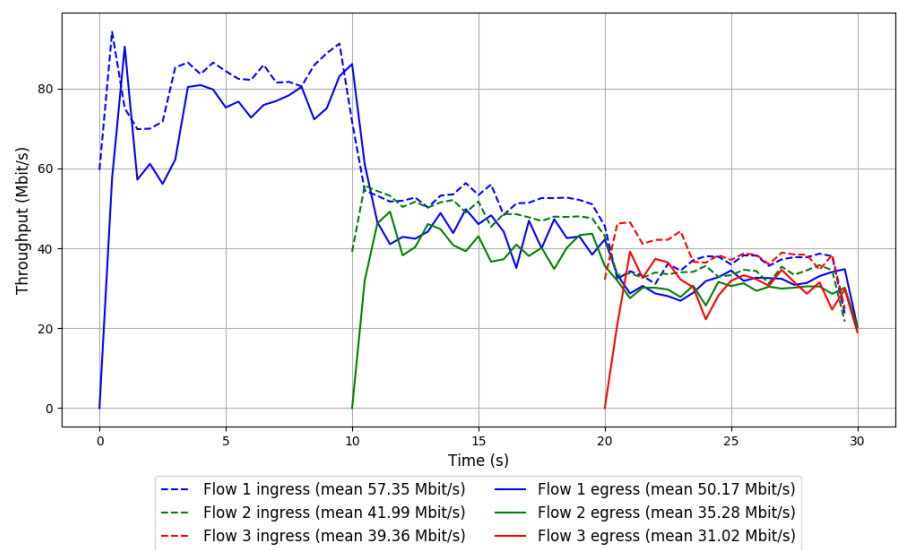
-- Flow 3:

Average throughput: 31.02 Mbit/s

95th percentile per-packet one-way delay: 18.382 ms

Loss rate: 21.11%

Run 10: Report of Indigo — Data Link

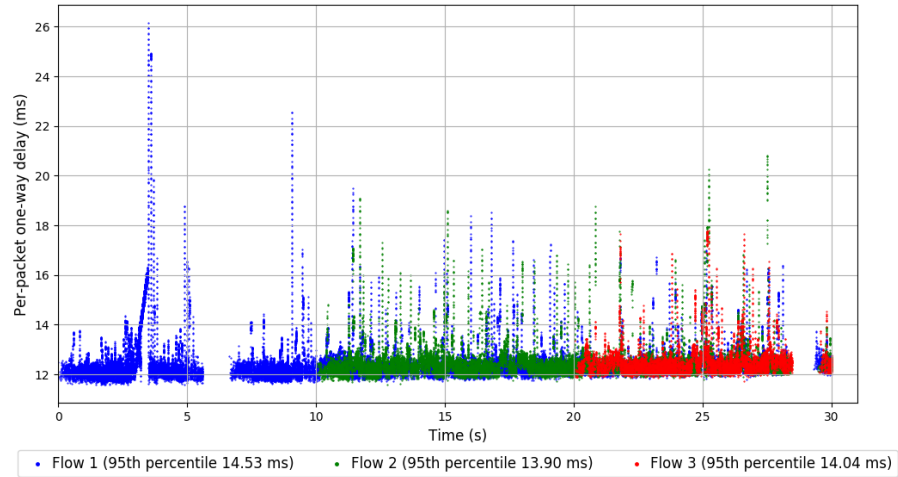
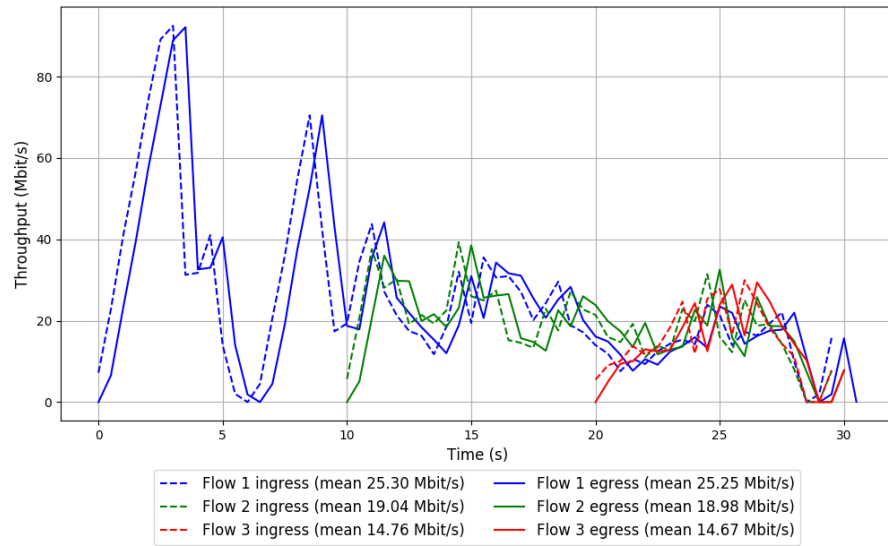


```
Run 1: Statistics of LEDBAT

Start at: 2018-05-22 03:29:30
End at: 2018-05-22 03:30:00
Local clock offset: -2.382 ms
Remote clock offset: -1.559 ms

# Below is generated by plot.py at 2018-05-22 06:33:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.78 Mbit/s
95th percentile per-packet one-way delay: 14.227 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 25.25 Mbit/s
95th percentile per-packet one-way delay: 14.532 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 18.98 Mbit/s
95th percentile per-packet one-way delay: 13.897 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 14.67 Mbit/s
95th percentile per-packet one-way delay: 14.035 ms
Loss rate: 0.60%
```

## Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-05-22 03:47:48

End at: 2018-05-22 03:48:18

Local clock offset: 4.219 ms

Remote clock offset: -4.67 ms

# Below is generated by plot.py at 2018-05-22 06:33:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 25.86 Mbit/s

95th percentile per-packet one-way delay: 12.833 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 17.79 Mbit/s

95th percentile per-packet one-way delay: 13.030 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 12.588 ms

Loss rate: 1.78%

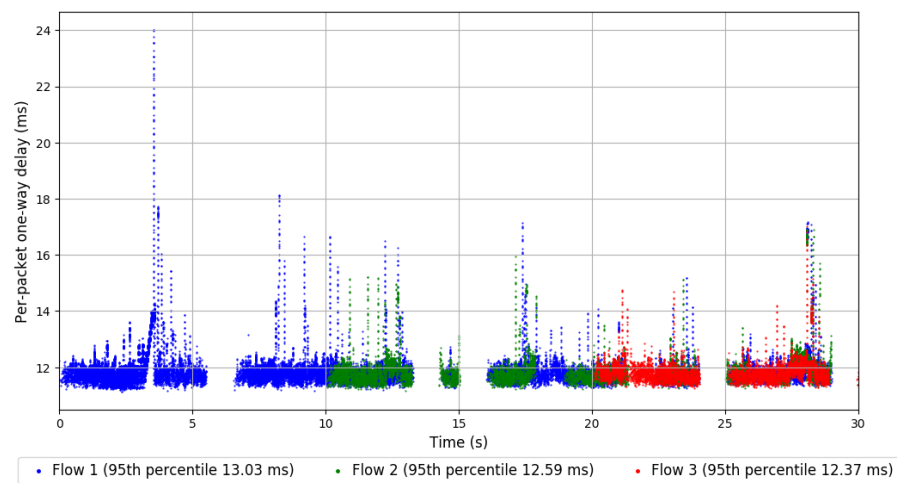
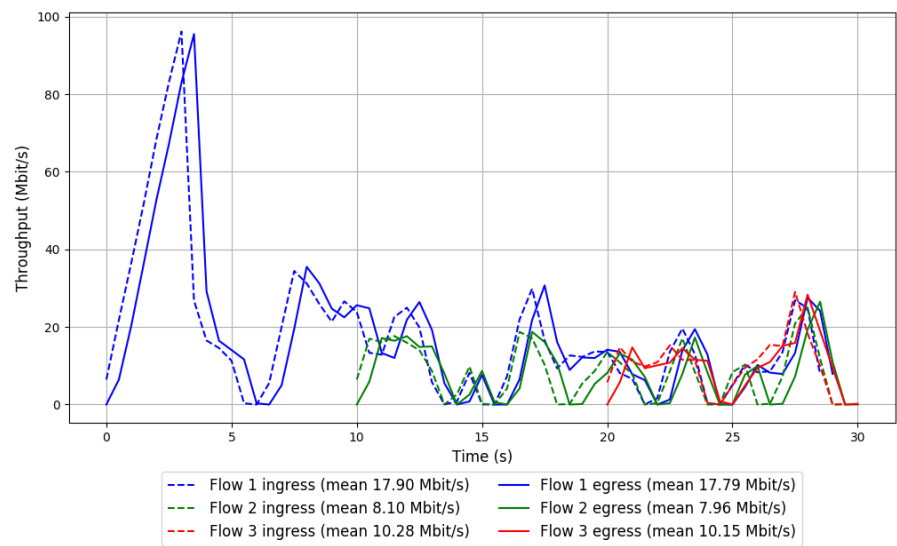
-- Flow 3:

Average throughput: 10.15 Mbit/s

95th percentile per-packet one-way delay: 12.373 ms

Loss rate: 1.34%

Run 2: Report of LEDBAT — Data Link

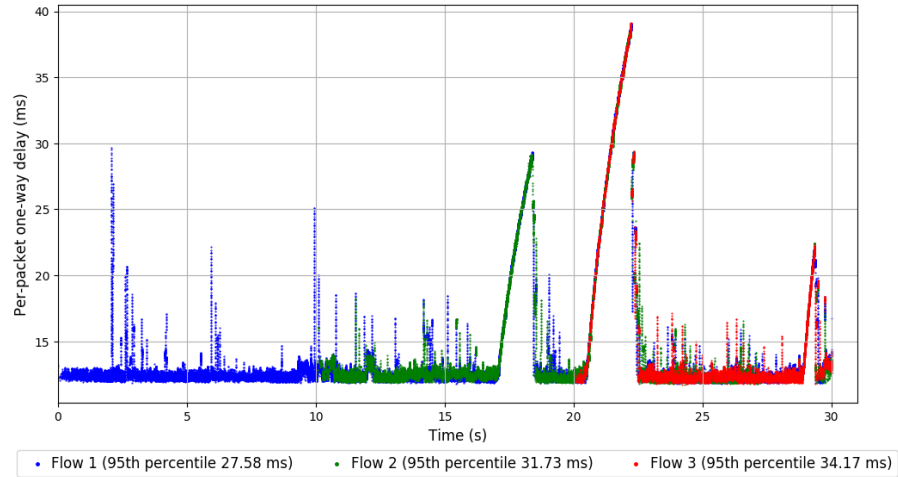
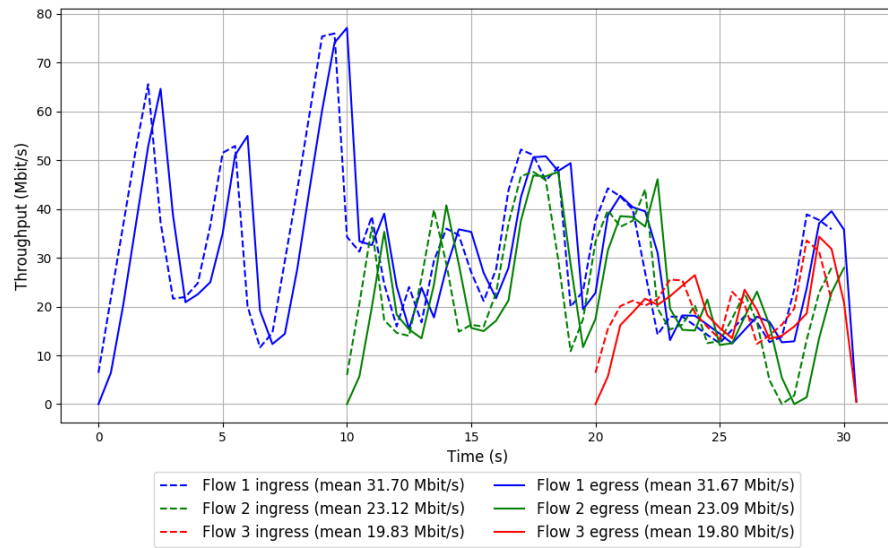


Run 3: Statistics of LEDBAT

Start at: 2018-05-22 04:06:11  
End at: 2018-05-22 04:06:41  
Local clock offset: -1.622 ms  
Remote clock offset: -6.372 ms

# Below is generated by plot.py at 2018-05-22 06:34:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 53.62 Mbit/s  
95th percentile per-packet one-way delay: 29.276 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 31.67 Mbit/s  
95th percentile per-packet one-way delay: 27.578 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 23.09 Mbit/s  
95th percentile per-packet one-way delay: 31.726 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 19.80 Mbit/s  
95th percentile per-packet one-way delay: 34.169 ms  
Loss rate: 0.15%

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

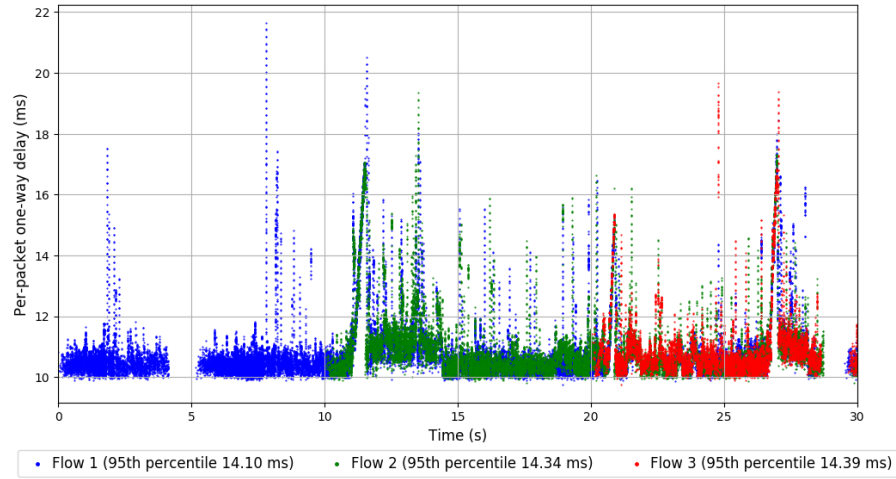
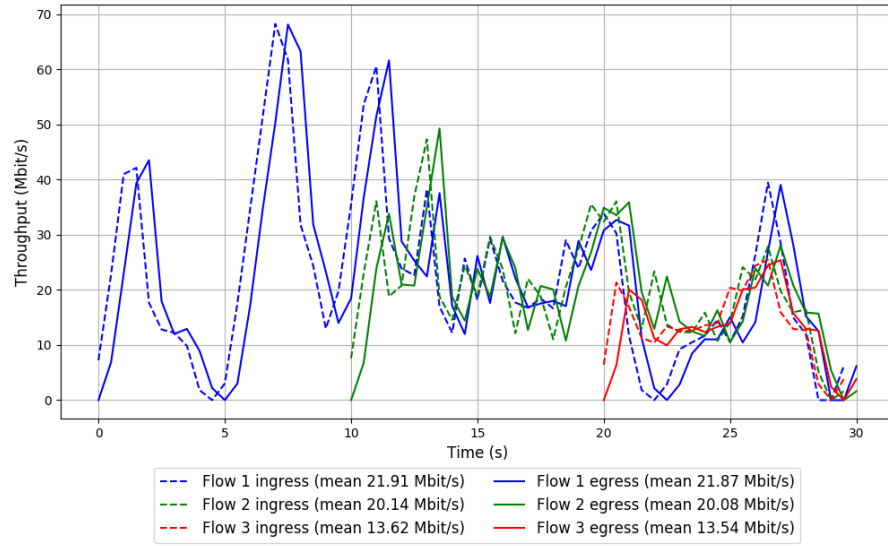


Run 4: Statistics of LEDBAT

Start at: 2018-05-22 04:24:30  
End at: 2018-05-22 04:25:00  
Local clock offset: -4.595 ms  
Remote clock offset: -9.957 ms

# Below is generated by plot.py at 2018-05-22 06:34:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 39.73 Mbit/s  
95th percentile per-packet one-way delay: 14.154 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 21.87 Mbit/s  
95th percentile per-packet one-way delay: 14.097 ms  
Loss rate: 0.21%  
-- Flow 2:  
Average throughput: 20.08 Mbit/s  
95th percentile per-packet one-way delay: 14.338 ms  
Loss rate: 0.26%  
-- Flow 3:  
Average throughput: 13.54 Mbit/s  
95th percentile per-packet one-way delay: 14.389 ms  
Loss rate: 0.56%

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

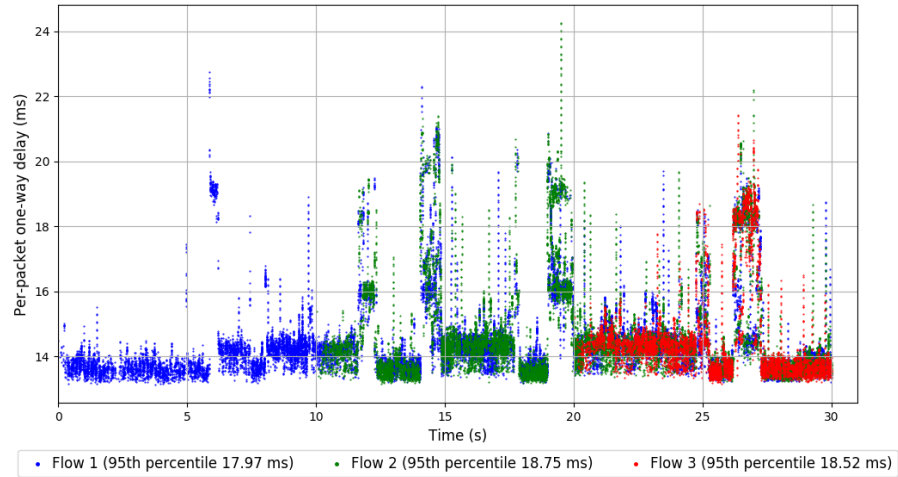
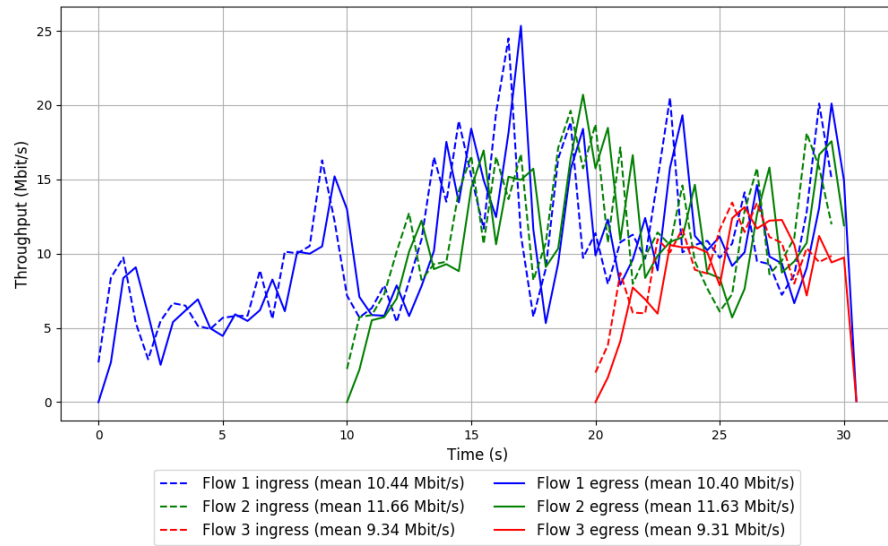


Run 5: Statistics of LEDBAT

Start at: 2018-05-22 04:42:57  
End at: 2018-05-22 04:43:27  
Local clock offset: 1.308 ms  
Remote clock offset: -9.811 ms

# Below is generated by plot.py at 2018-05-22 06:34:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 21.24 Mbit/s  
95th percentile per-packet one-way delay: 18.372 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 10.40 Mbit/s  
95th percentile per-packet one-way delay: 17.974 ms  
Loss rate: 0.36%  
-- Flow 2:  
Average throughput: 11.63 Mbit/s  
95th percentile per-packet one-way delay: 18.745 ms  
Loss rate: 0.27%  
-- Flow 3:  
Average throughput: 9.31 Mbit/s  
95th percentile per-packet one-way delay: 18.518 ms  
Loss rate: 0.33%

## Run 5: Report of LEDBAT — Data Link

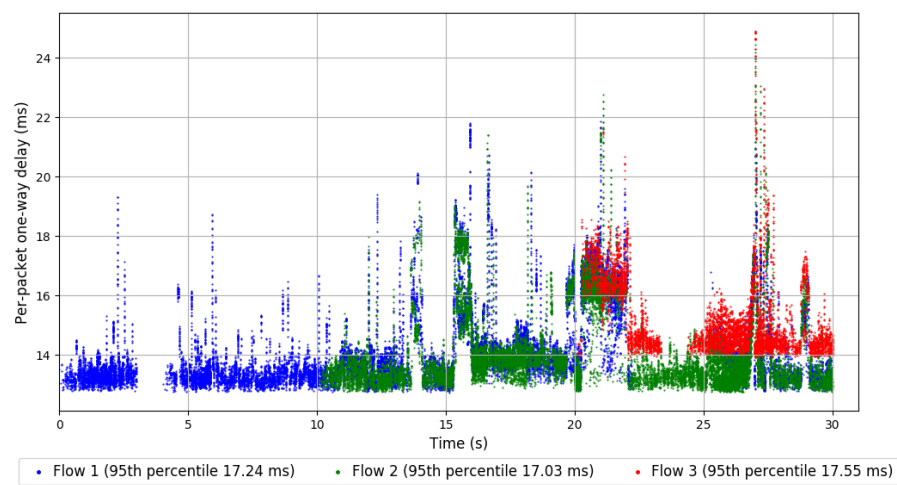
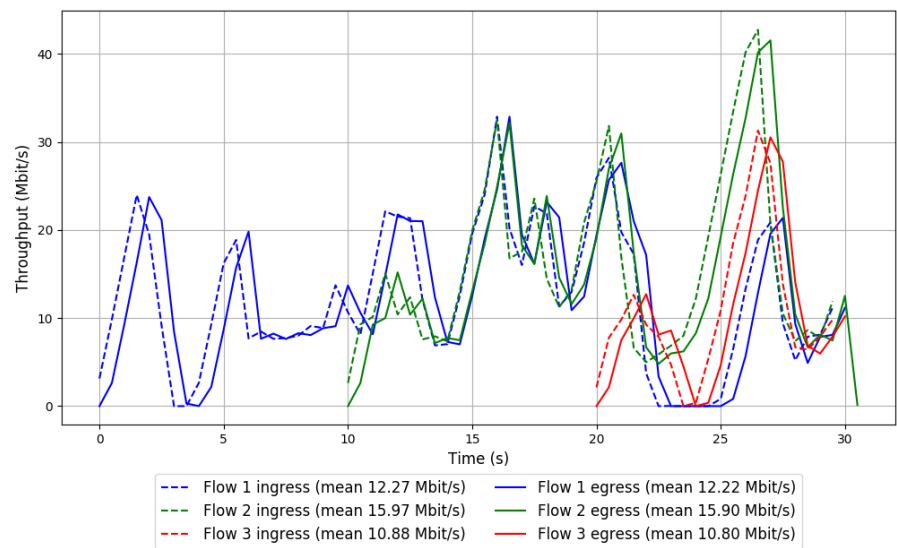


Run 6: Statistics of LEDBAT

Start at: 2018-05-22 05:01:27  
End at: 2018-05-22 05:01:57  
Local clock offset: 0.253 ms  
Remote clock offset: -13.116 ms

# Below is generated by plot.py at 2018-05-22 06:34:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 26.38 Mbit/s  
95th percentile per-packet one-way delay: 17.235 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 12.22 Mbit/s  
95th percentile per-packet one-way delay: 17.241 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 15.90 Mbit/s  
95th percentile per-packet one-way delay: 17.034 ms  
Loss rate: 0.43%  
-- Flow 3:  
Average throughput: 10.80 Mbit/s  
95th percentile per-packet one-way delay: 17.547 ms  
Loss rate: 0.70%

Run 6: Report of LEDBAT — Data Link

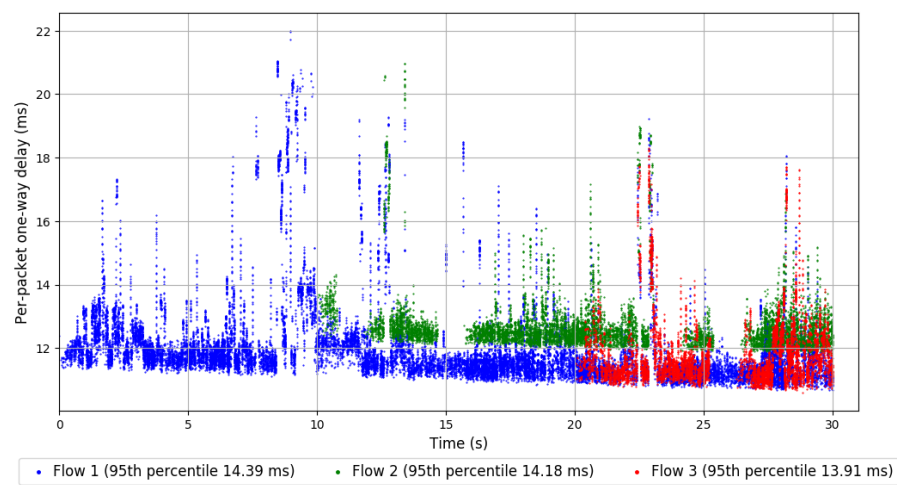
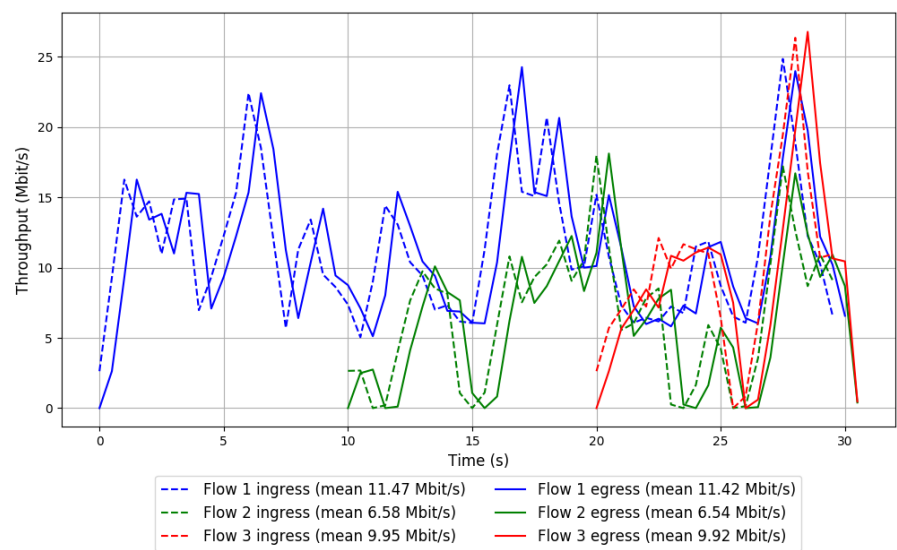


Run 7: Statistics of LEDBAT

Start at: 2018-05-22 05:20:15  
End at: 2018-05-22 05:20:45  
Local clock offset: 3.613 ms  
Remote clock offset: -12.863 ms

# Below is generated by plot.py at 2018-05-22 06:34:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 19.08 Mbit/s  
95th percentile per-packet one-way delay: 14.207 ms  
Loss rate: 0.41%  
-- Flow 1:  
Average throughput: 11.42 Mbit/s  
95th percentile per-packet one-way delay: 14.388 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 6.54 Mbit/s  
95th percentile per-packet one-way delay: 14.183 ms  
Loss rate: 0.67%  
-- Flow 3:  
Average throughput: 9.92 Mbit/s  
95th percentile per-packet one-way delay: 13.915 ms  
Loss rate: 0.24%

Run 7: Report of LEDBAT — Data Link

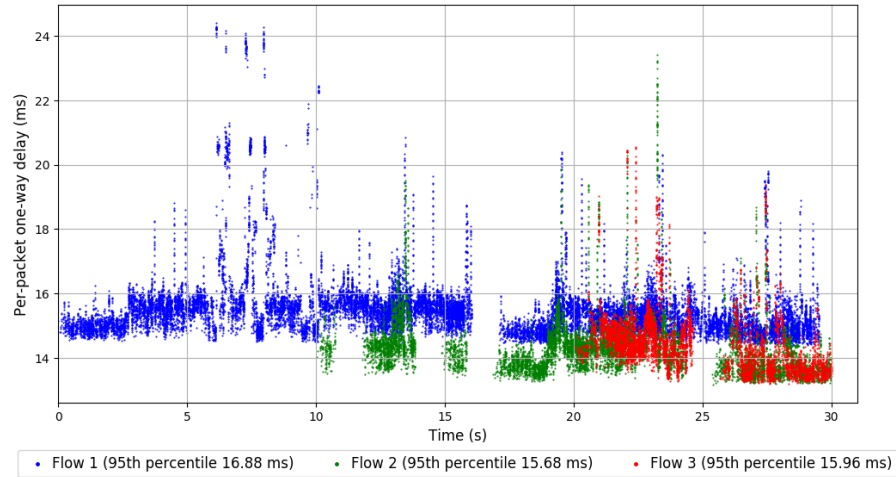
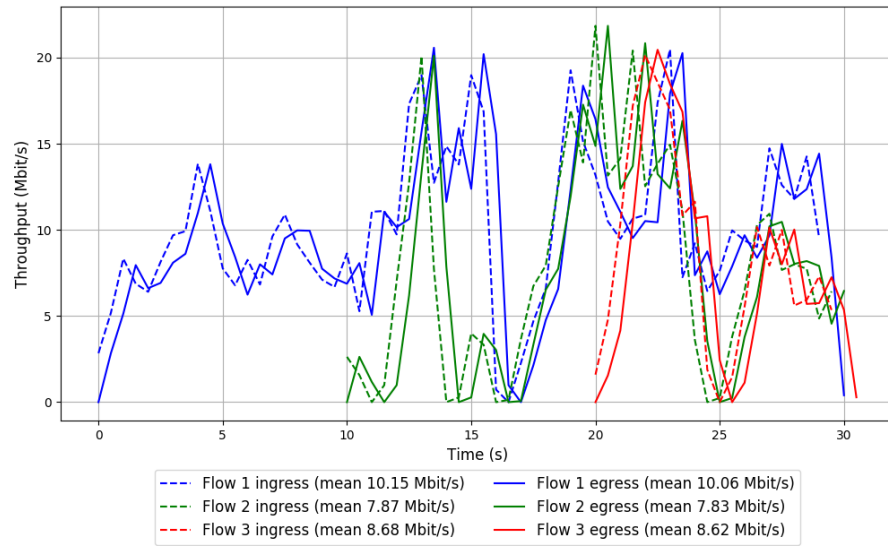


Run 8: Statistics of LEDBAT

Start at: 2018-05-22 05:39:18  
End at: 2018-05-22 05:39:48  
Local clock offset: 0.227 ms  
Remote clock offset: -0.852 ms

# Below is generated by plot.py at 2018-05-22 06:34:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 17.97 Mbit/s  
95th percentile per-packet one-way delay: 16.470 ms  
Loss rate: 0.74%  
-- Flow 1:  
Average throughput: 10.06 Mbit/s  
95th percentile per-packet one-way delay: 16.878 ms  
Loss rate: 0.83%  
-- Flow 2:  
Average throughput: 7.83 Mbit/s  
95th percentile per-packet one-way delay: 15.679 ms  
Loss rate: 0.57%  
-- Flow 3:  
Average throughput: 8.62 Mbit/s  
95th percentile per-packet one-way delay: 15.956 ms  
Loss rate: 0.73%

# Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-05-22 05:57:57

End at: 2018-05-22 05:58:27

Local clock offset: 1.136 ms

Remote clock offset: 3.588 ms

# Below is generated by plot.py at 2018-05-22 06:34:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 28.58 Mbit/s

95th percentile per-packet one-way delay: 16.665 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 17.13 Mbit/s

95th percentile per-packet one-way delay: 15.981 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 13.78 Mbit/s

95th percentile per-packet one-way delay: 17.460 ms

Loss rate: 0.47%

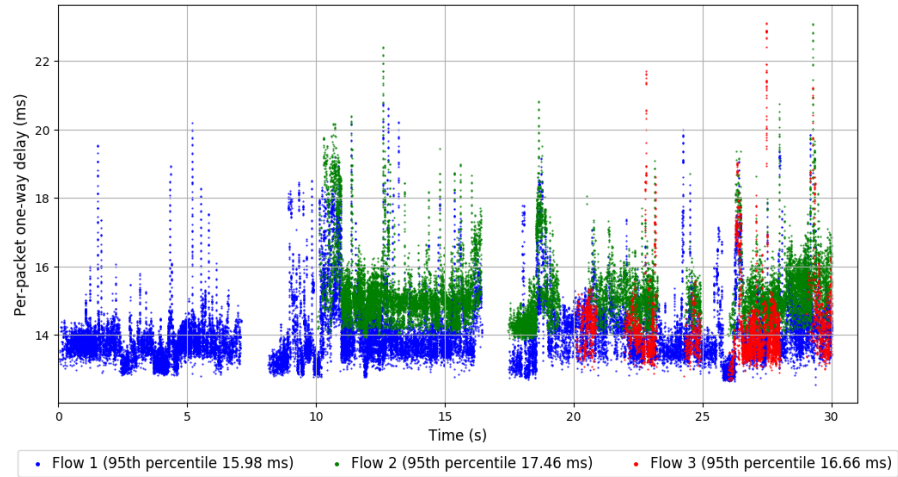
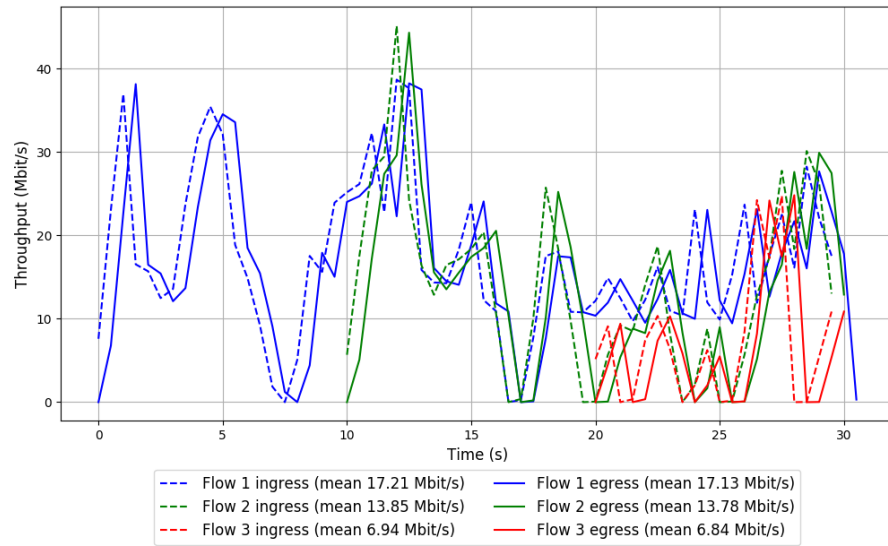
-- Flow 3:

Average throughput: 6.84 Mbit/s

95th percentile per-packet one-way delay: 16.661 ms

Loss rate: 1.36%

## Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-05-22 06:16:31

End at: 2018-05-22 06:17:01

Local clock offset: 1.919 ms

Remote clock offset: 4.709 ms

# Below is generated by plot.py at 2018-05-22 06:34:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 6.86 Mbit/s

95th percentile per-packet one-way delay: 11.546 ms

Loss rate: 4.37%

-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 11.433 ms

Loss rate: 5.05%

-- Flow 2:

Average throughput: 3.43 Mbit/s

95th percentile per-packet one-way delay: 10.477 ms

Loss rate: 4.25%

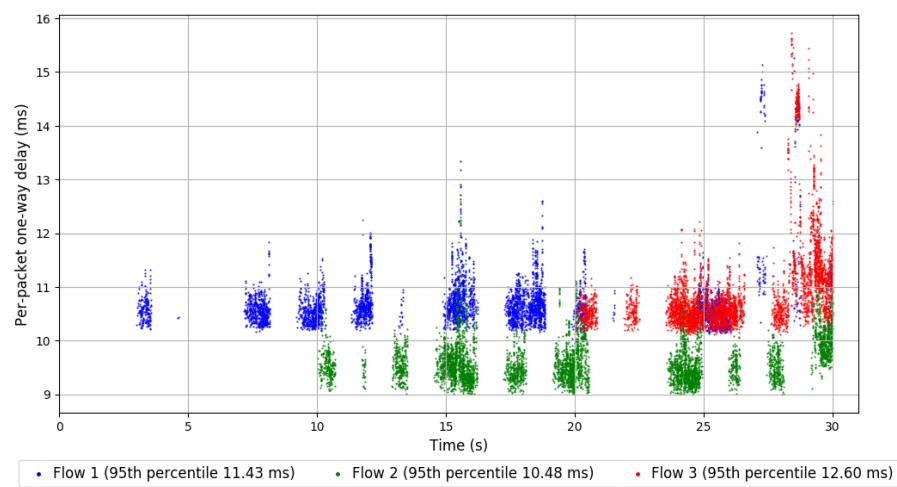
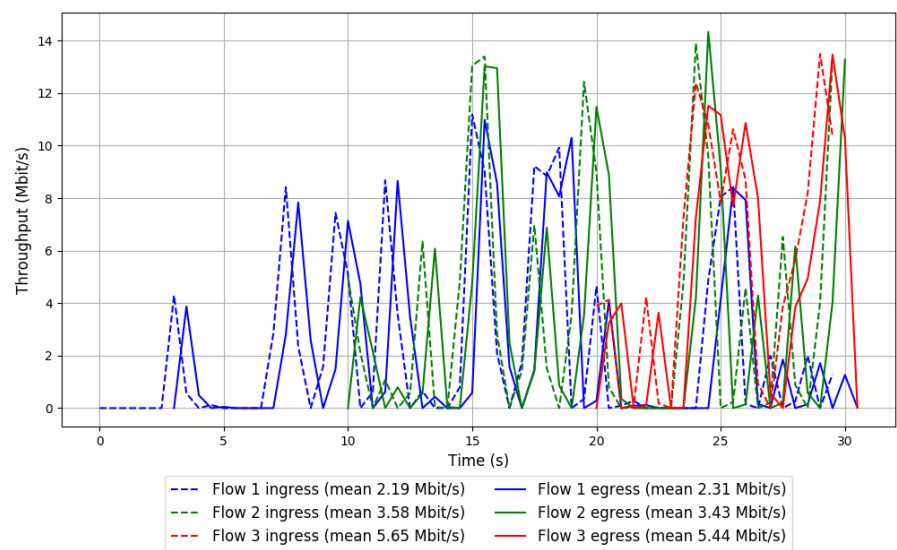
-- Flow 3:

Average throughput: 5.44 Mbit/s

95th percentile per-packet one-way delay: 12.600 ms

Loss rate: 3.73%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-05-22 03:31:49

End at: 2018-05-22 03:32:19

Local clock offset: -4.818 ms

Remote clock offset: -1.5 ms

# Below is generated by plot.py at 2018-05-22 06:34:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 75.63 Mbit/s

95th percentile per-packet one-way delay: 19.056 ms

Loss rate: 12.60%

-- Flow 1:

Average throughput: 73.90 Mbit/s

95th percentile per-packet one-way delay: 19.070 ms

Loss rate: 12.61%

-- Flow 2:

Average throughput: 1.70 Mbit/s

95th percentile per-packet one-way delay: 18.577 ms

Loss rate: 13.02%

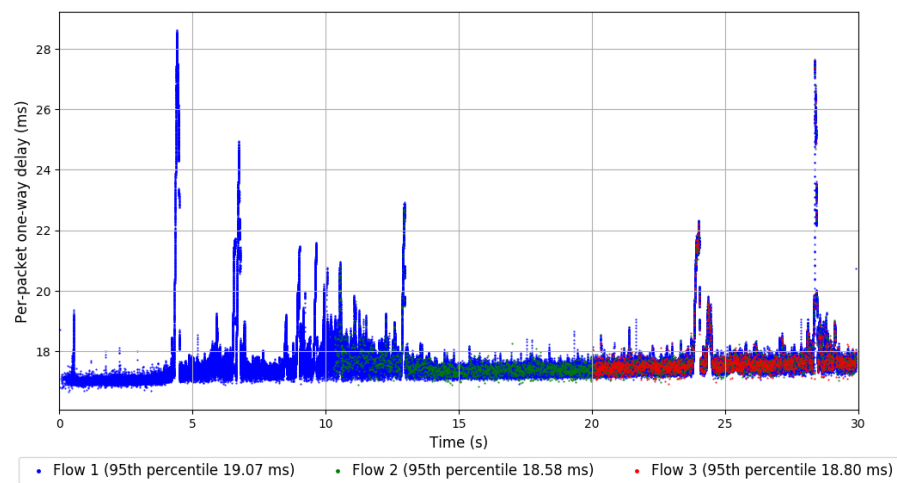
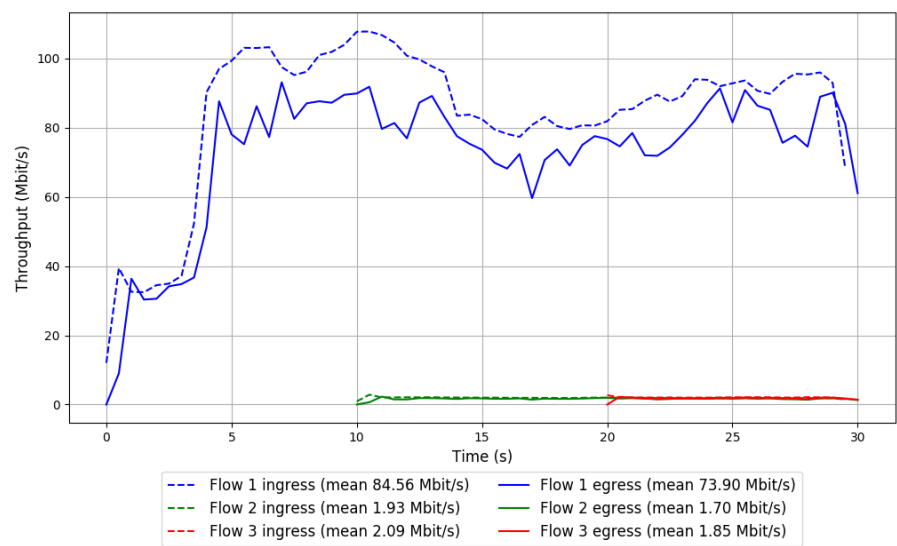
-- Flow 3:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 18.805 ms

Loss rate: 11.55%

Run 1: Report of PCC-Allegro — Data Link

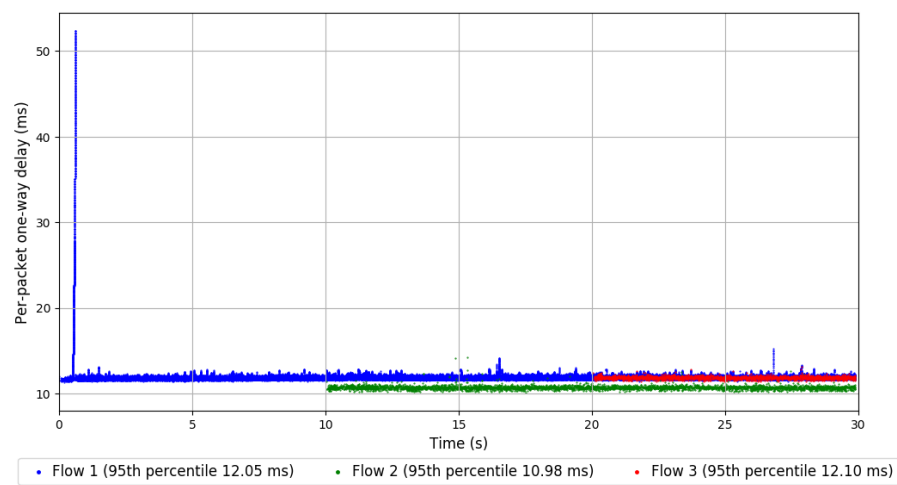
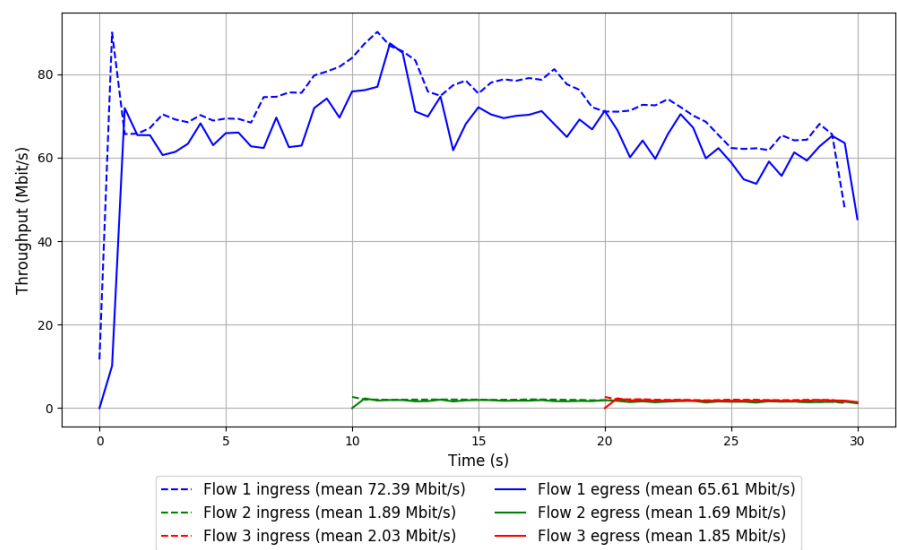


Run 2: Statistics of PCC-Allegro

Start at: 2018-05-22 03:50:02  
End at: 2018-05-22 03:50:32  
Local clock offset: 4.051 ms  
Remote clock offset: -5.069 ms

# Below is generated by plot.py at 2018-05-22 06:34:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 67.35 Mbit/s  
95th percentile per-packet one-way delay: 12.049 ms  
Loss rate: 9.38%  
-- Flow 1:  
Average throughput: 65.61 Mbit/s  
95th percentile per-packet one-way delay: 12.050 ms  
Loss rate: 9.37%  
-- Flow 2:  
Average throughput: 1.69 Mbit/s  
95th percentile per-packet one-way delay: 10.982 ms  
Loss rate: 10.55%  
-- Flow 3:  
Average throughput: 1.85 Mbit/s  
95th percentile per-packet one-way delay: 12.098 ms  
Loss rate: 8.76%

Run 2: Report of PCC-Allegro — Data Link

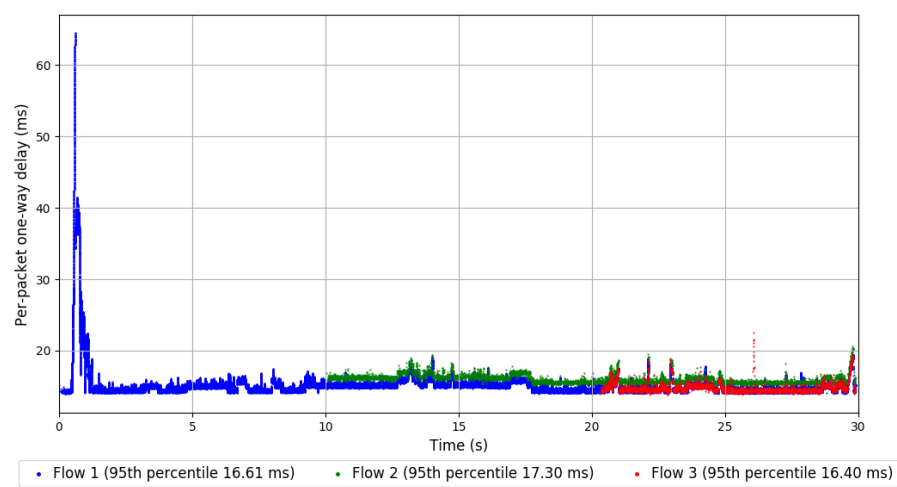
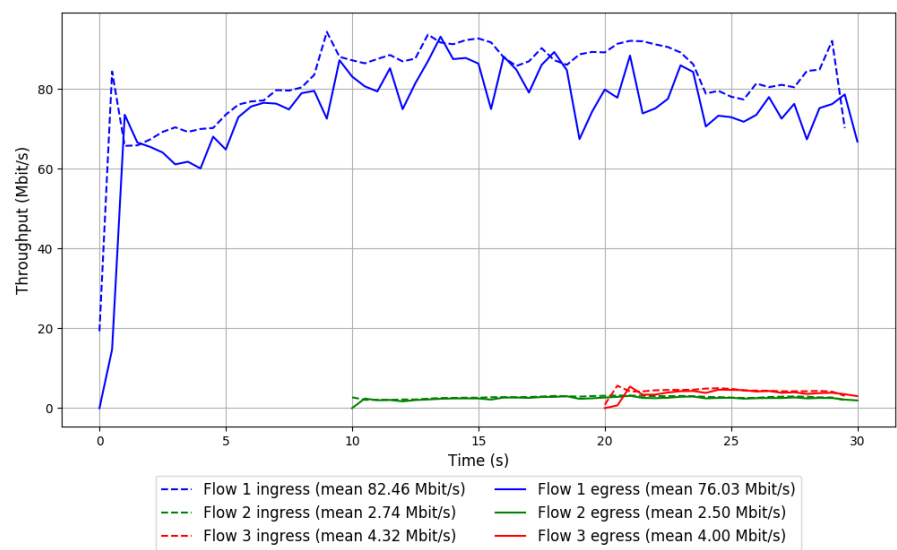


Run 3: Statistics of PCC-Allegro

Start at: 2018-05-22 04:08:28  
End at: 2018-05-22 04:08:58  
Local clock offset: -4.565 ms  
Remote clock offset: -5.539 ms

# Below is generated by plot.py at 2018-05-22 06:35:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.97 Mbit/s  
95th percentile per-packet one-way delay: 16.684 ms  
Loss rate: 7.86%  
-- Flow 1:  
Average throughput: 76.03 Mbit/s  
95th percentile per-packet one-way delay: 16.605 ms  
Loss rate: 7.80%  
-- Flow 2:  
Average throughput: 2.50 Mbit/s  
95th percentile per-packet one-way delay: 17.299 ms  
Loss rate: 8.83%  
-- Flow 3:  
Average throughput: 4.00 Mbit/s  
95th percentile per-packet one-way delay: 16.396 ms  
Loss rate: 9.86%

Run 3: Report of PCC-Allegro — Data Link

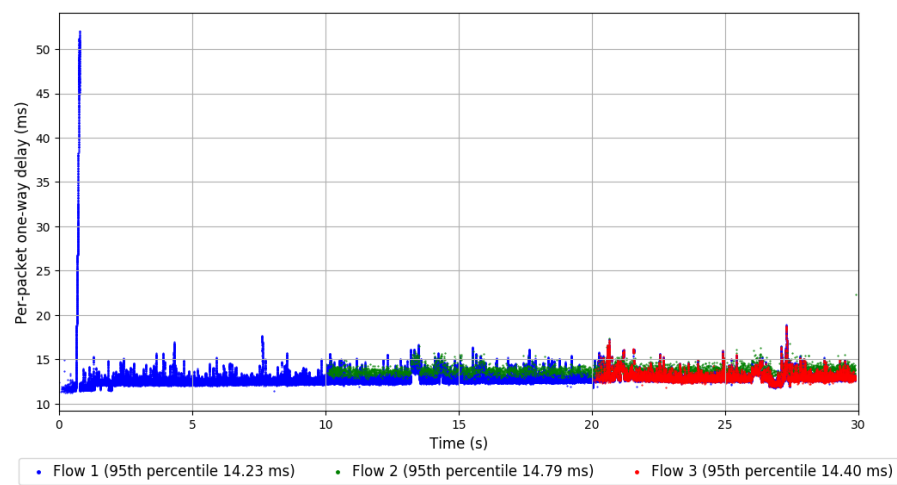
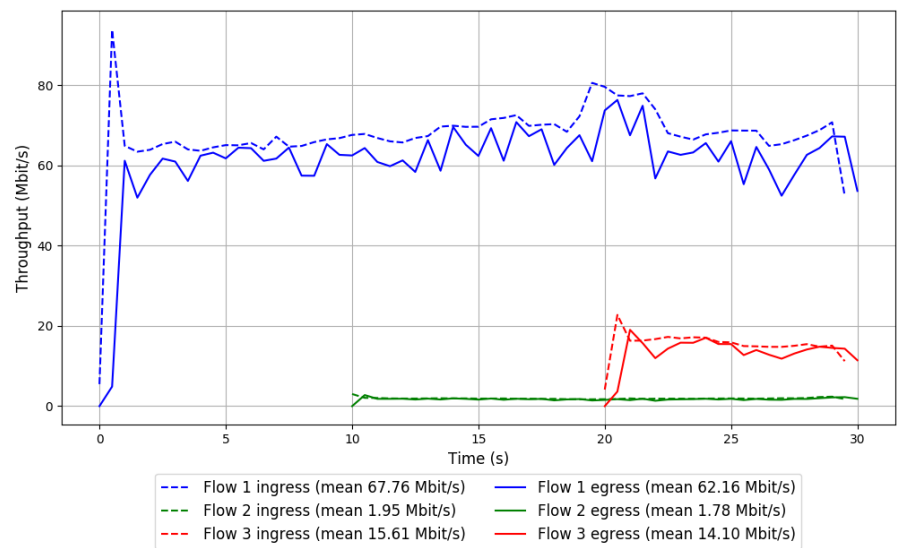


Run 4: Statistics of PCC-Allegro

Start at: 2018-05-22 04:26:45  
End at: 2018-05-22 04:27:15  
Local clock offset: -3.711 ms  
Remote clock offset: -8.067 ms

# Below is generated by plot.py at 2018-05-22 06:35:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 67.98 Mbit/s  
95th percentile per-packet one-way delay: 14.278 ms  
Loss rate: 8.37%  
-- Flow 1:  
Average throughput: 62.16 Mbit/s  
95th percentile per-packet one-way delay: 14.234 ms  
Loss rate: 8.27%  
-- Flow 2:  
Average throughput: 1.78 Mbit/s  
95th percentile per-packet one-way delay: 14.789 ms  
Loss rate: 8.45%  
-- Flow 3:  
Average throughput: 14.10 Mbit/s  
95th percentile per-packet one-way delay: 14.401 ms  
Loss rate: 9.64%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-05-22 04:45:11

End at: 2018-05-22 04:45:41

Local clock offset: 0.871 ms

Remote clock offset: -12.508 ms

# Below is generated by plot.py at 2018-05-22 06:35:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 75.98 Mbit/s

95th percentile per-packet one-way delay: 13.503 ms

Loss rate: 7.76%

-- Flow 1:

Average throughput: 70.66 Mbit/s

95th percentile per-packet one-way delay: 13.634 ms

Loss rate: 7.72%

-- Flow 2:

Average throughput: 6.95 Mbit/s

95th percentile per-packet one-way delay: 12.790 ms

Loss rate: 8.35%

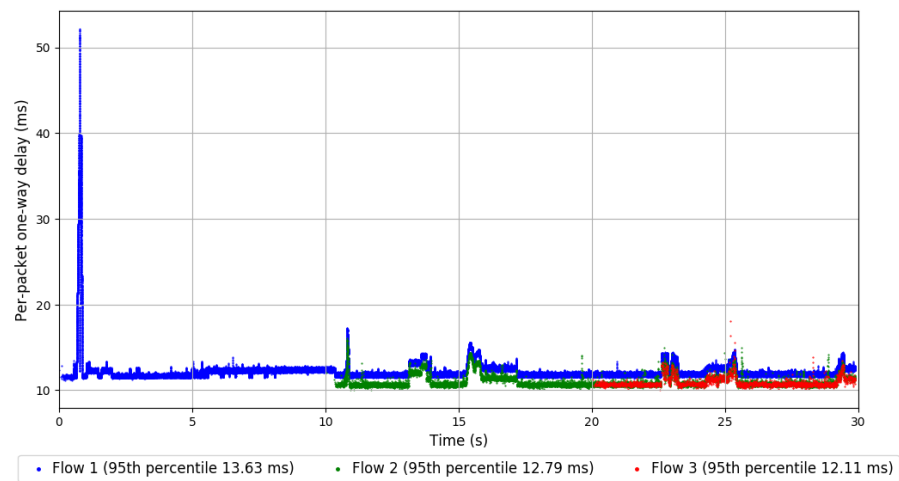
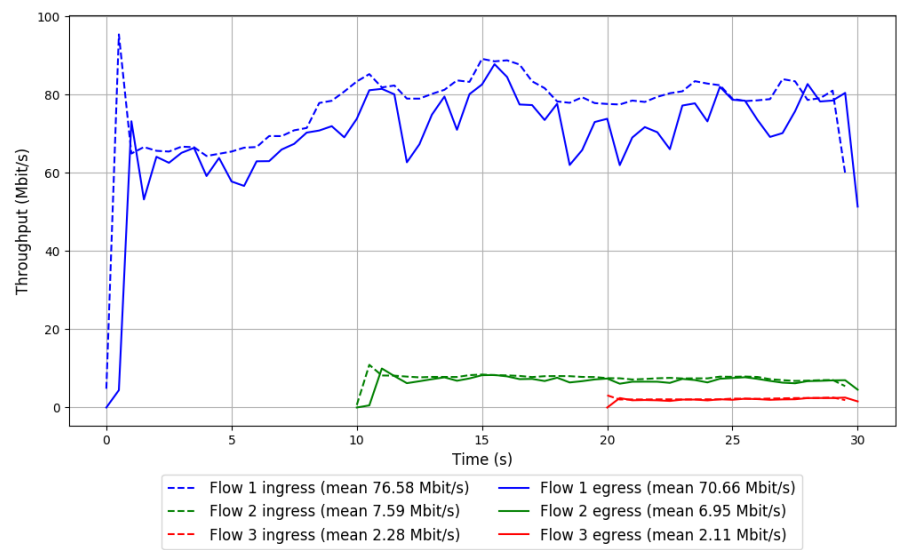
-- Flow 3:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 12.113 ms

Loss rate: 7.58%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-05-22 05:03:44

End at: 2018-05-22 05:04:14

Local clock offset: 0.866 ms

Remote clock offset: -12.212 ms

# Below is generated by plot.py at 2018-05-22 06:35:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 81.76 Mbit/s

95th percentile per-packet one-way delay: 28.392 ms

Loss rate: 7.97%

-- Flow 1:

Average throughput: 60.90 Mbit/s

95th percentile per-packet one-way delay: 25.439 ms

Loss rate: 7.28%

-- Flow 2:

Average throughput: 29.71 Mbit/s

95th percentile per-packet one-way delay: 32.935 ms

Loss rate: 9.99%

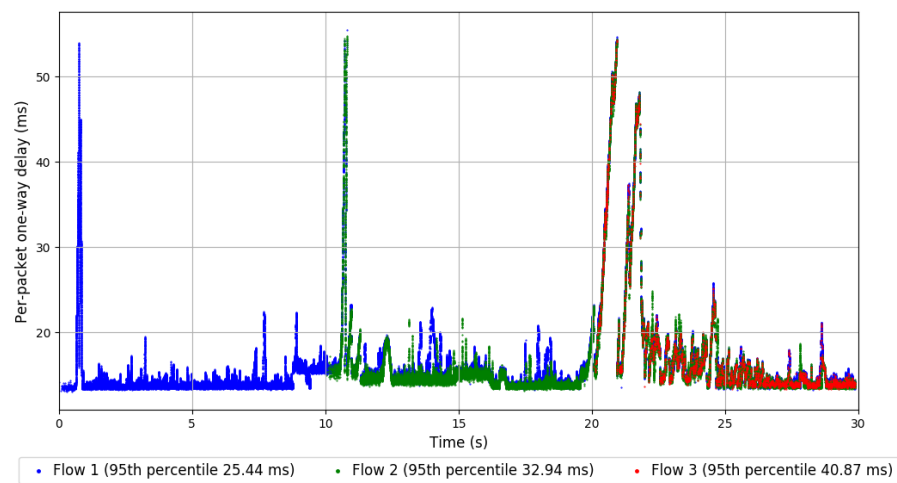
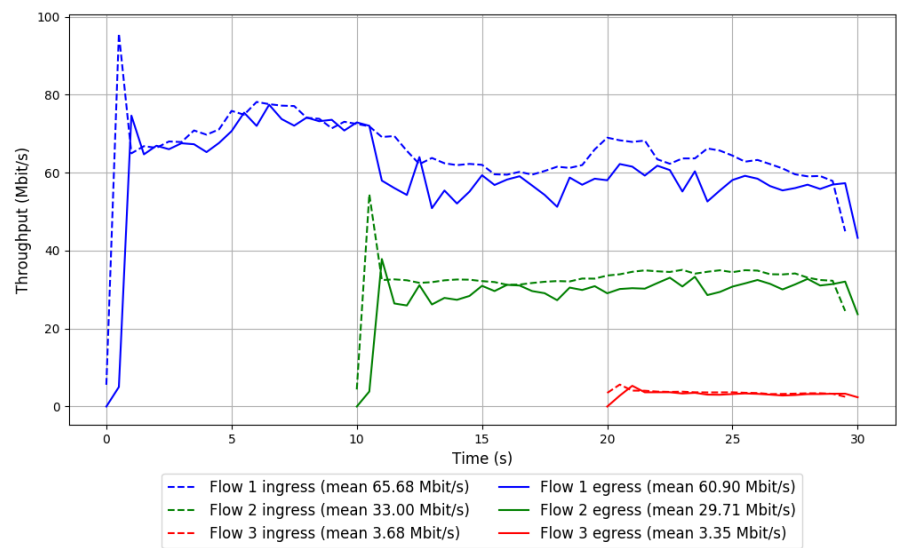
-- Flow 3:

Average throughput: 3.35 Mbit/s

95th percentile per-packet one-way delay: 40.867 ms

Loss rate: 9.01%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-05-22 05:22:35

End at: 2018-05-22 05:23:05

Local clock offset: 0.816 ms

Remote clock offset: -10.563 ms

# Below is generated by plot.py at 2018-05-22 06:35:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 66.30 Mbit/s

95th percentile per-packet one-way delay: 16.887 ms

Loss rate: 10.95%

-- Flow 1:

Average throughput: 45.41 Mbit/s

95th percentile per-packet one-way delay: 16.866 ms

Loss rate: 10.94%

-- Flow 2:

Average throughput: 29.58 Mbit/s

95th percentile per-packet one-way delay: 16.906 ms

Loss rate: 11.01%

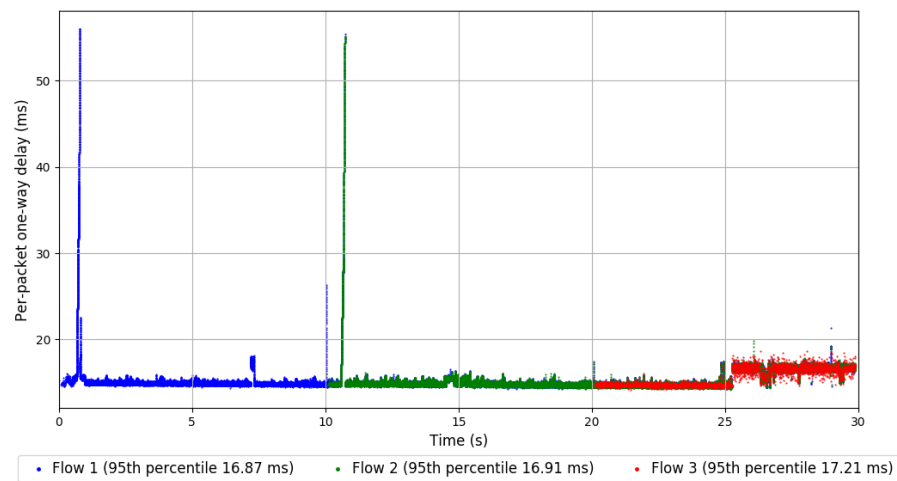
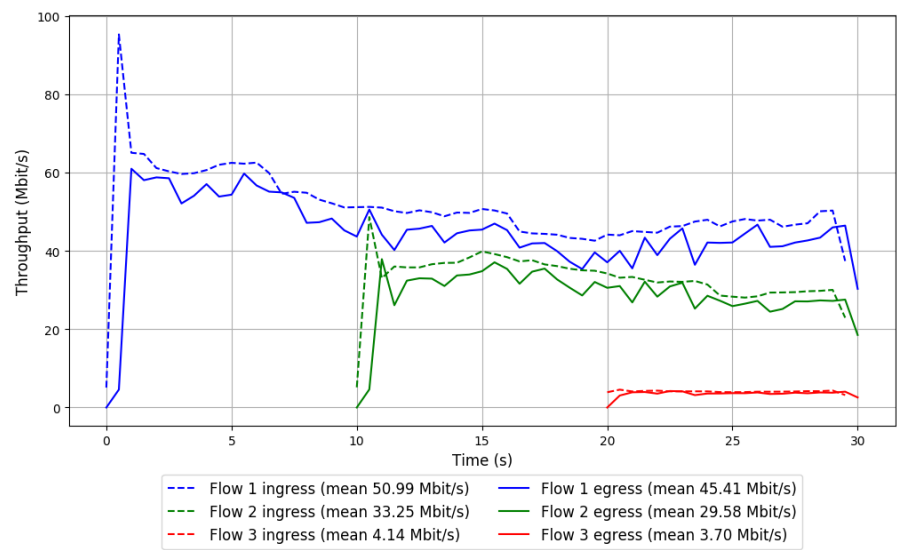
-- Flow 3:

Average throughput: 3.70 Mbit/s

95th percentile per-packet one-way delay: 17.212 ms

Loss rate: 10.54%

Run 7: Report of PCC-Allegro — Data Link

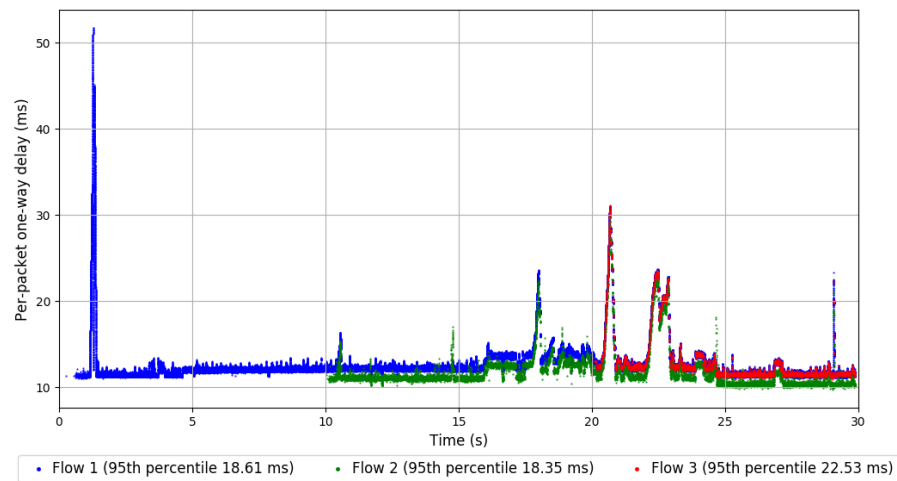
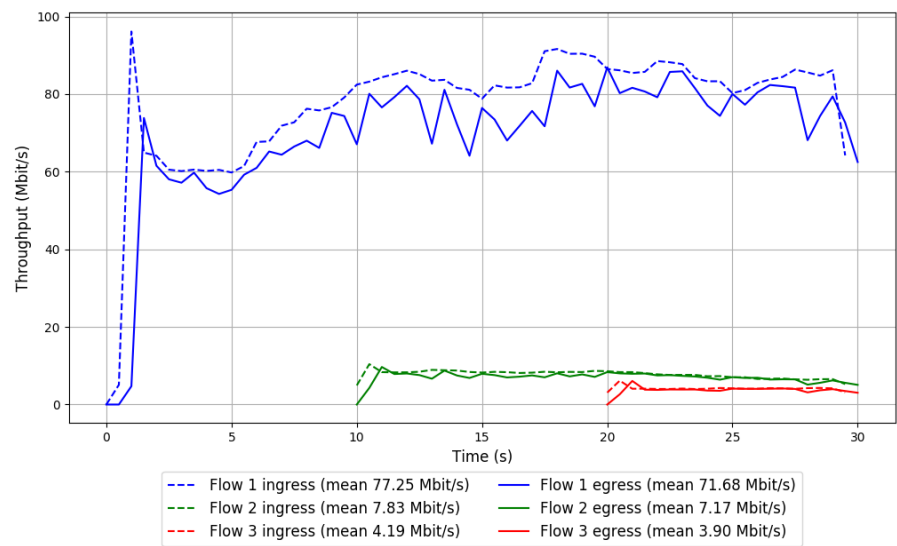


Run 8: Statistics of PCC-Allegro

Start at: 2018-05-22 05:41:37  
End at: 2018-05-22 05:42:07  
Local clock offset: 2.963 ms  
Remote clock offset: -0.879 ms

# Below is generated by plot.py at 2018-05-22 06:35:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.79 Mbit/s  
95th percentile per-packet one-way delay: 18.774 ms  
Loss rate: 8.01%  
-- Flow 1:  
Average throughput: 71.68 Mbit/s  
95th percentile per-packet one-way delay: 18.615 ms  
Loss rate: 7.99%  
-- Flow 2:  
Average throughput: 7.17 Mbit/s  
95th percentile per-packet one-way delay: 18.353 ms  
Loss rate: 8.50%  
-- Flow 3:  
Average throughput: 3.90 Mbit/s  
95th percentile per-packet one-way delay: 22.534 ms  
Loss rate: 6.92%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-05-22 06:00:11

End at: 2018-05-22 06:00:41

Local clock offset: 2.21 ms

Remote clock offset: 3.767 ms

# Below is generated by plot.py at 2018-05-22 06:36:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 72.24 Mbit/s

95th percentile per-packet one-way delay: 13.579 ms

Loss rate: 9.44%

-- Flow 1:

Average throughput: 70.48 Mbit/s

95th percentile per-packet one-way delay: 13.456 ms

Loss rate: 9.43%

-- Flow 2:

Average throughput: 1.72 Mbit/s

95th percentile per-packet one-way delay: 14.162 ms

Loss rate: 9.72%

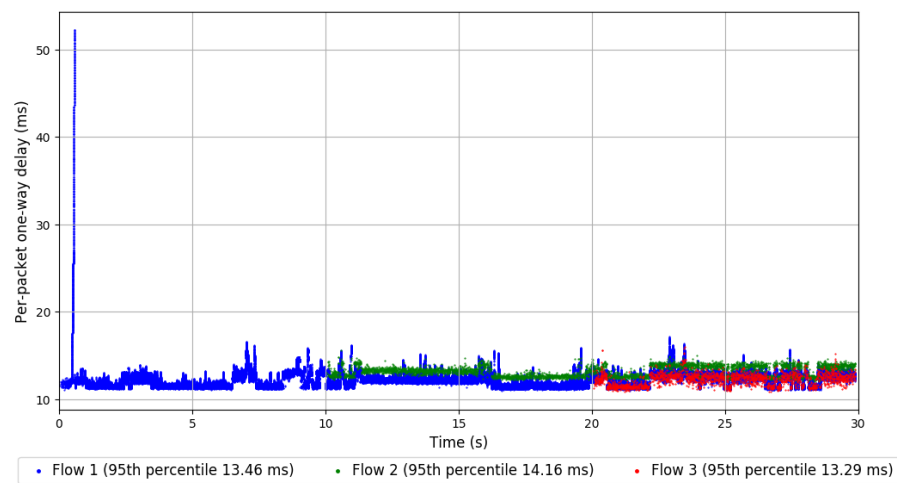
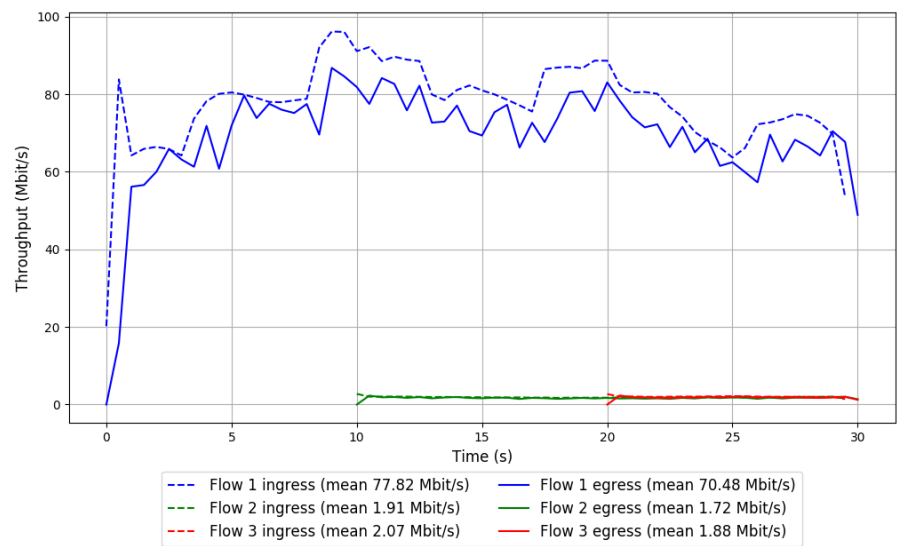
-- Flow 3:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 13.294 ms

Loss rate: 9.25%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-05-22 06:18:44

End at: 2018-05-22 06:19:14

Local clock offset: 1.048 ms

Remote clock offset: 4.594 ms

# Below is generated by plot.py at 2018-05-22 06:36:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 48.48 Mbit/s

95th percentile per-packet one-way delay: 11.489 ms

Loss rate: 7.63%

-- Flow 1:

Average throughput: 40.79 Mbit/s

95th percentile per-packet one-way delay: 11.480 ms

Loss rate: 7.47%

-- Flow 2:

Average throughput: 10.48 Mbit/s

95th percentile per-packet one-way delay: 11.505 ms

Loss rate: 8.33%

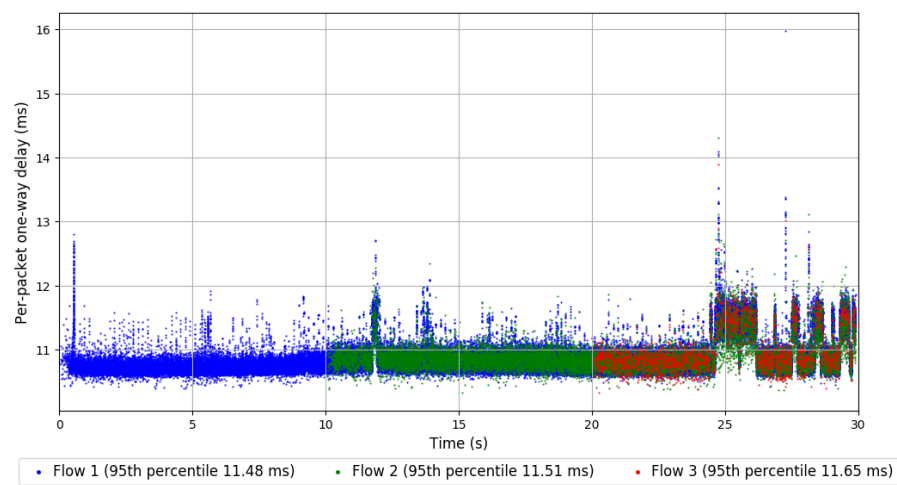
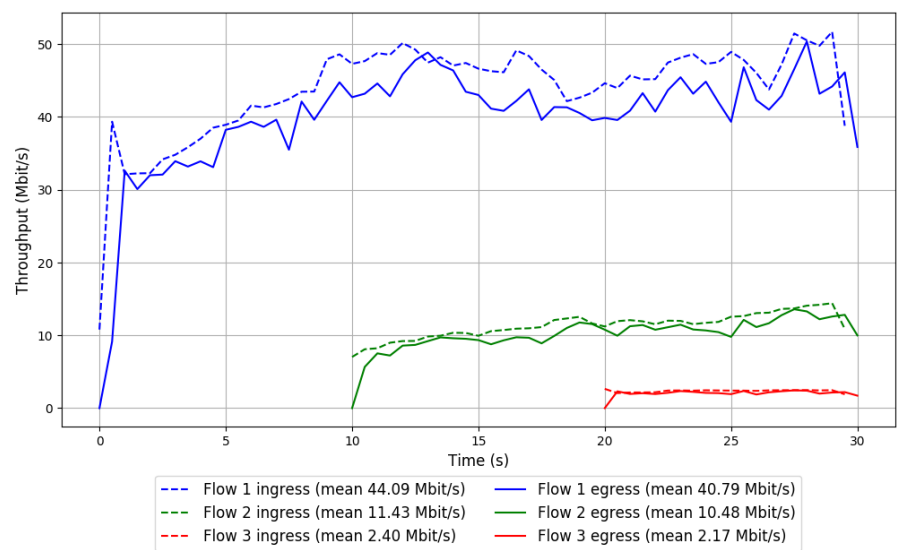
-- Flow 3:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 11.648 ms

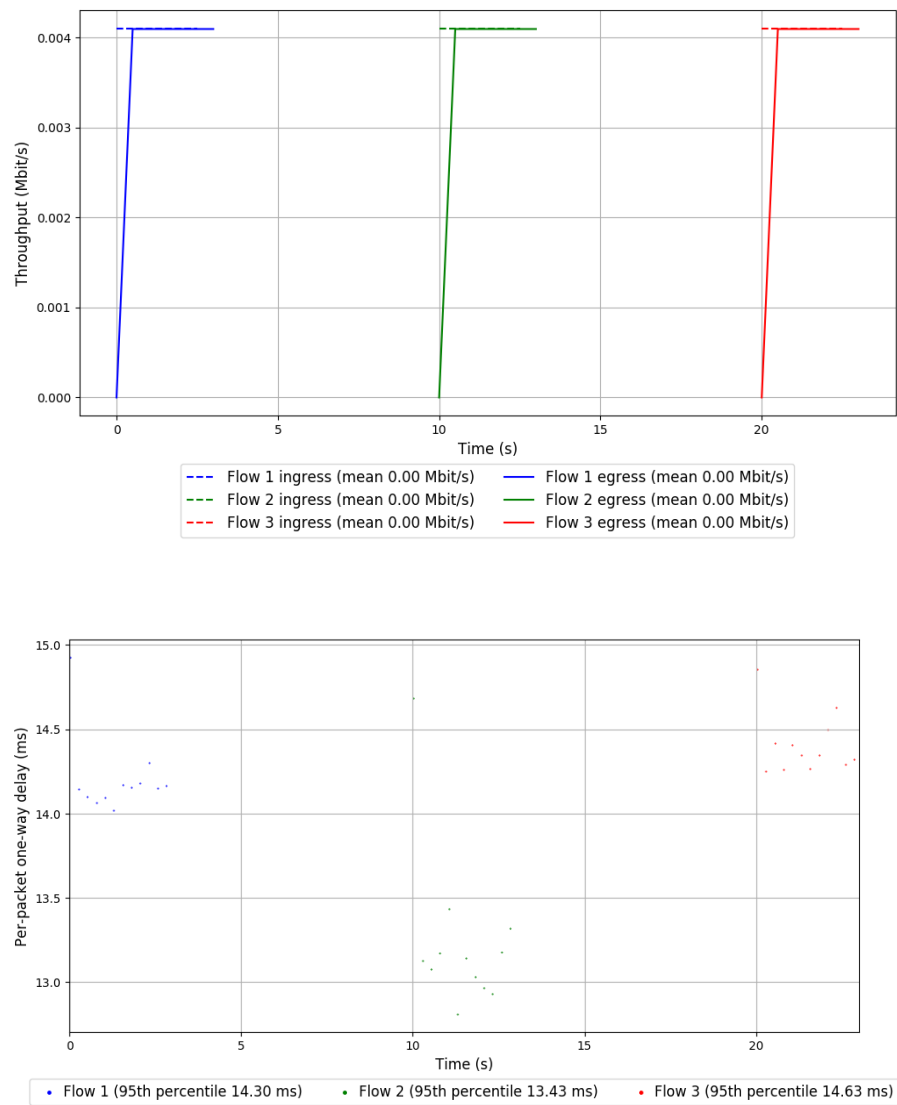
Loss rate: 9.64%

Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr  
  
Start at: 2018-05-22 03:37:29  
End at: 2018-05-22 03:37:59  
Local clock offset: -0.066 ms  
Remote clock offset: -2.458 ms

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

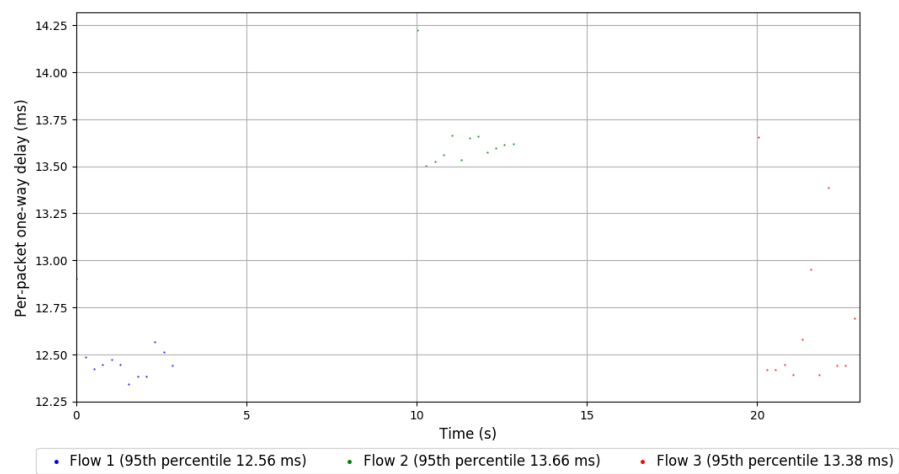
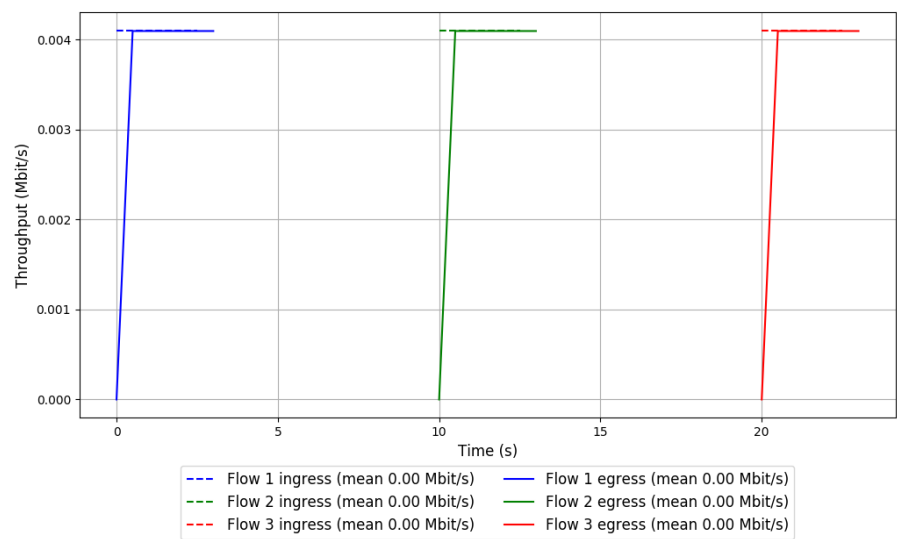
Start at: 2018-05-22 03:55:43

End at: 2018-05-22 03:56:13

Local clock offset: 4.12 ms

Remote clock offset: -4.206 ms

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

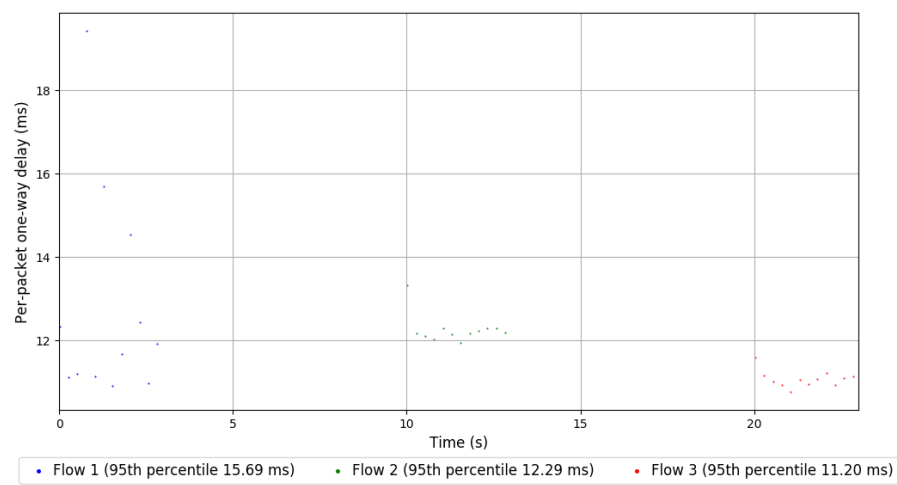
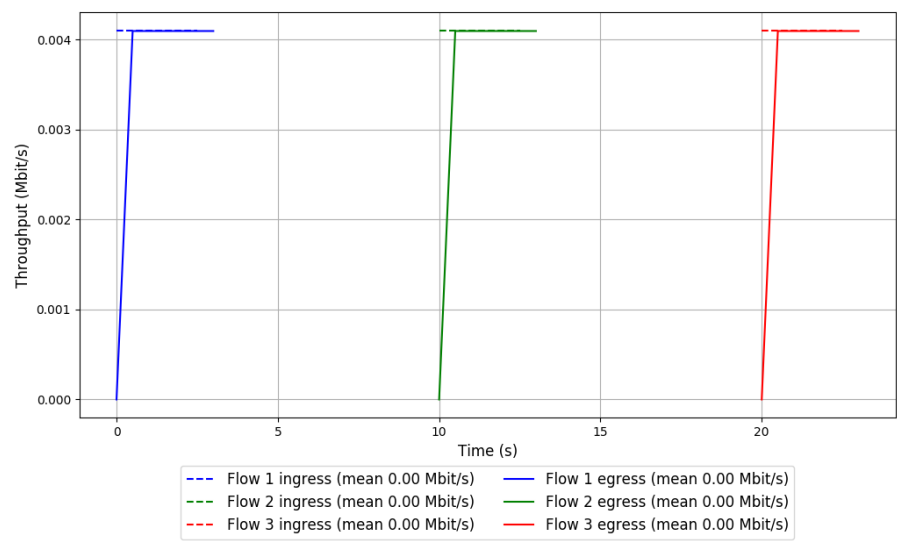
Start at: 2018-05-22 04:14:08

End at: 2018-05-22 04:14:38

Local clock offset: -3.415 ms

Remote clock offset: -7.165 ms

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

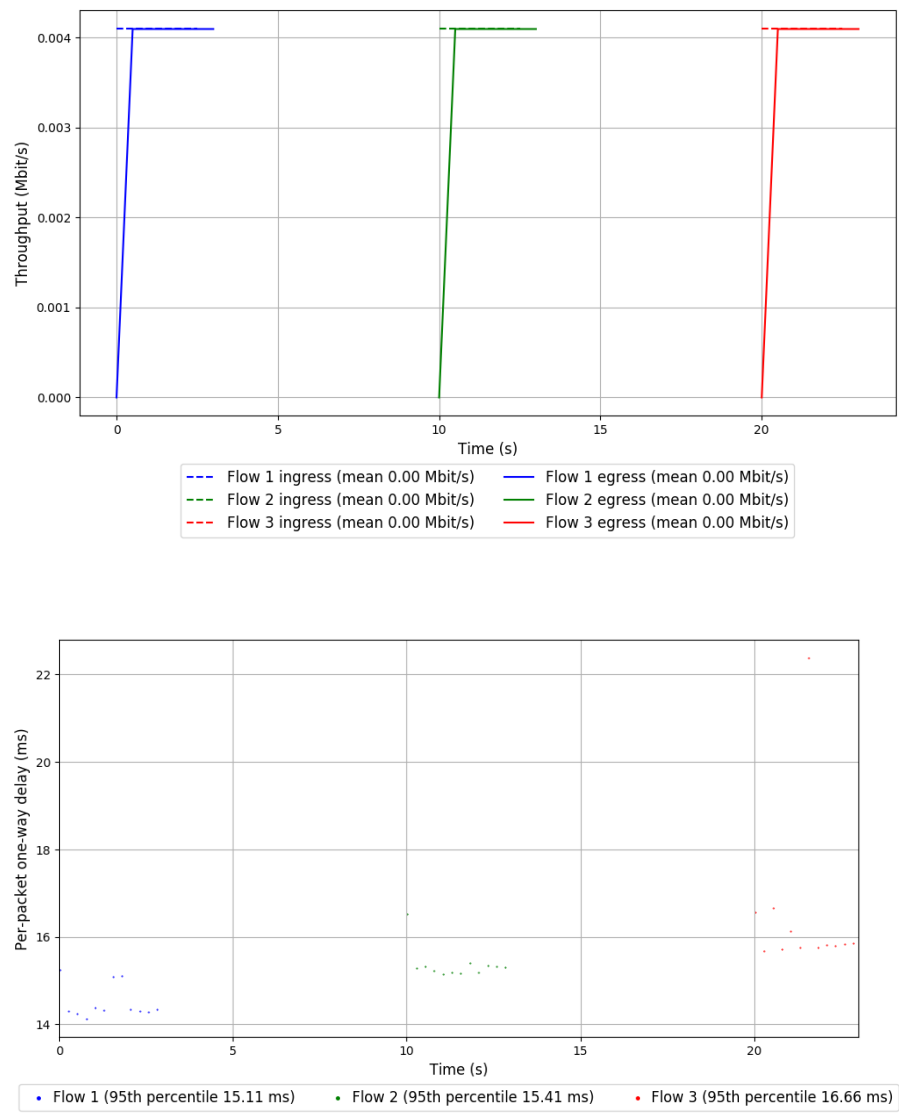
Start at: 2018-05-22 04:32:29

End at: 2018-05-22 04:32:59

Local clock offset: -2.738 ms

Remote clock offset: -8.296 ms

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

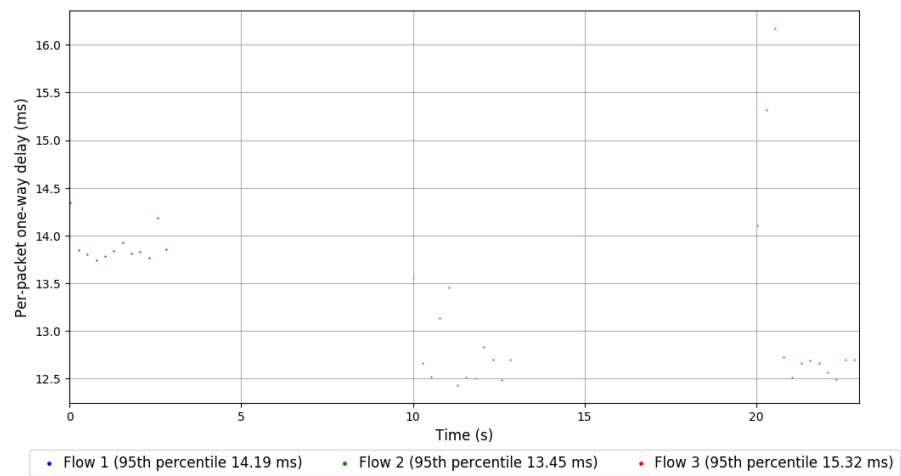
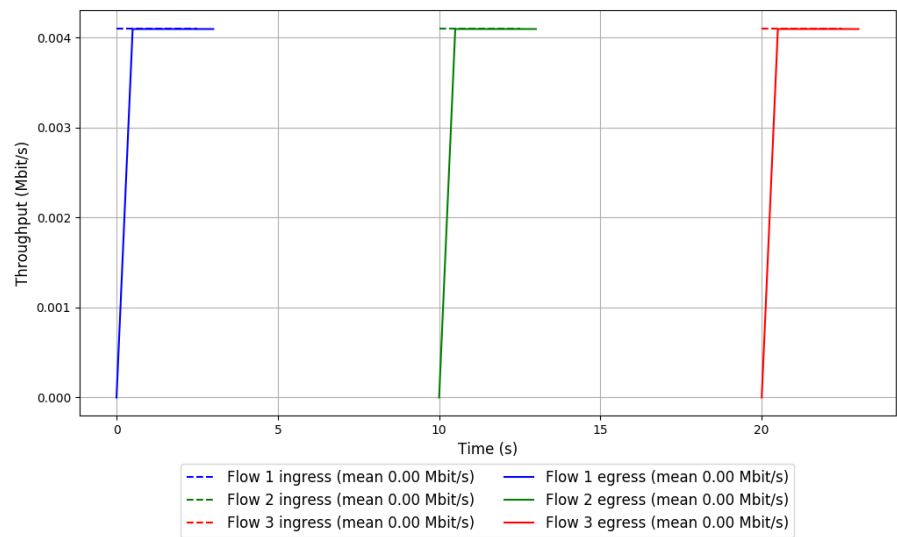
Start at: 2018-05-22 04:50:53

End at: 2018-05-22 04:51:23

Local clock offset: 1.269 ms

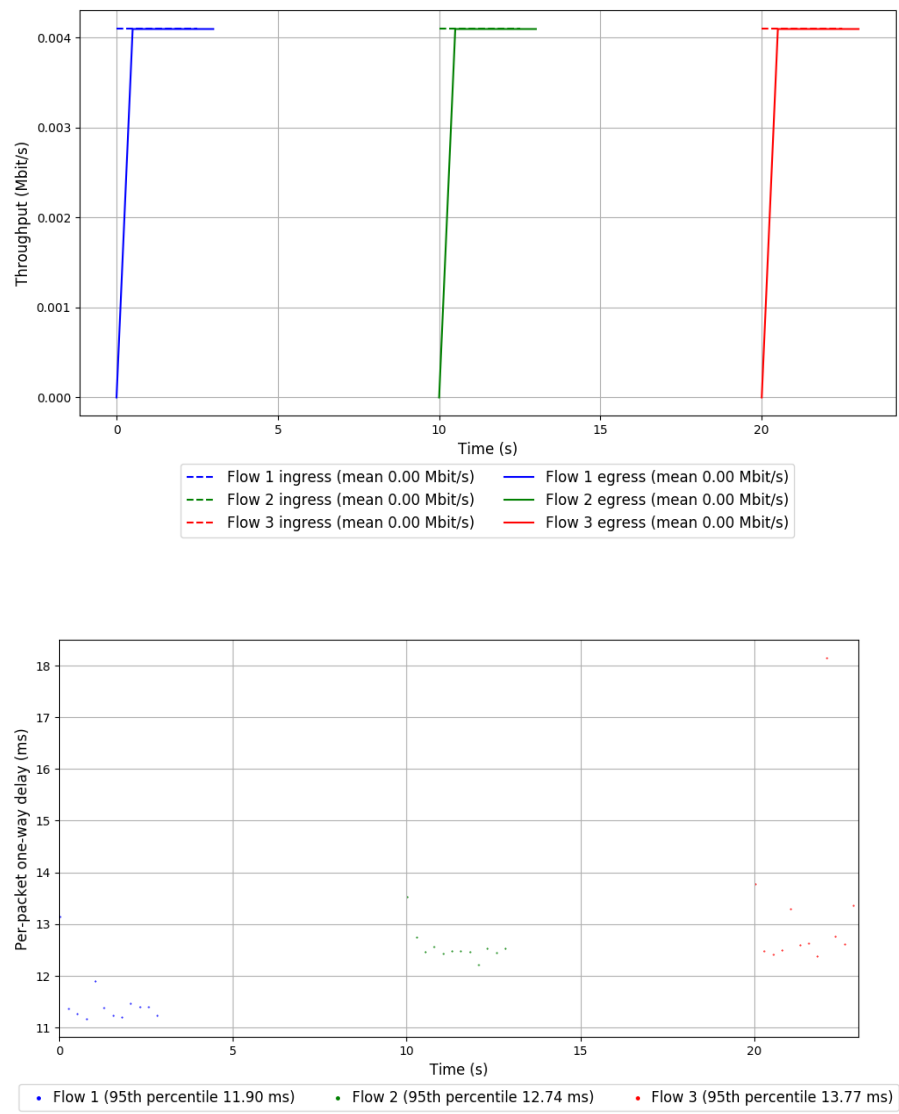
Remote clock offset: -10.797 ms

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr  
  
Start at: 2018-05-22 05:09:35  
End at: 2018-05-22 05:10:05  
Local clock offset: 3.531 ms  
Remote clock offset: -12.221 ms

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

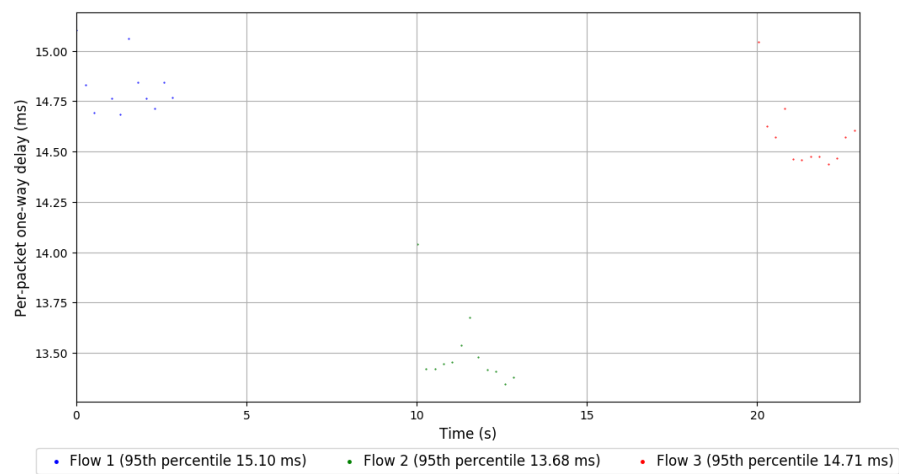
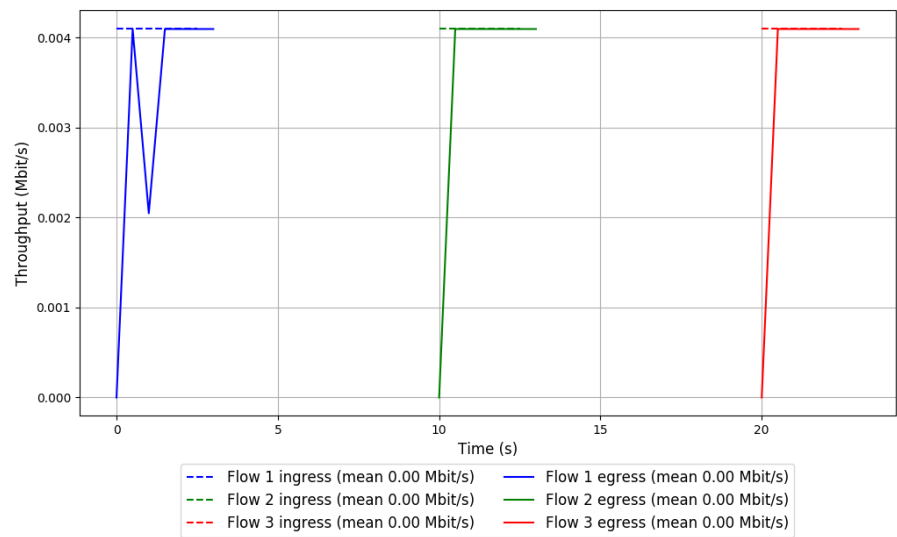
Start at: 2018-05-22 05:28:27

End at: 2018-05-22 05:28:57

Local clock offset: 0.676 ms

Remote clock offset: -5.468 ms

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

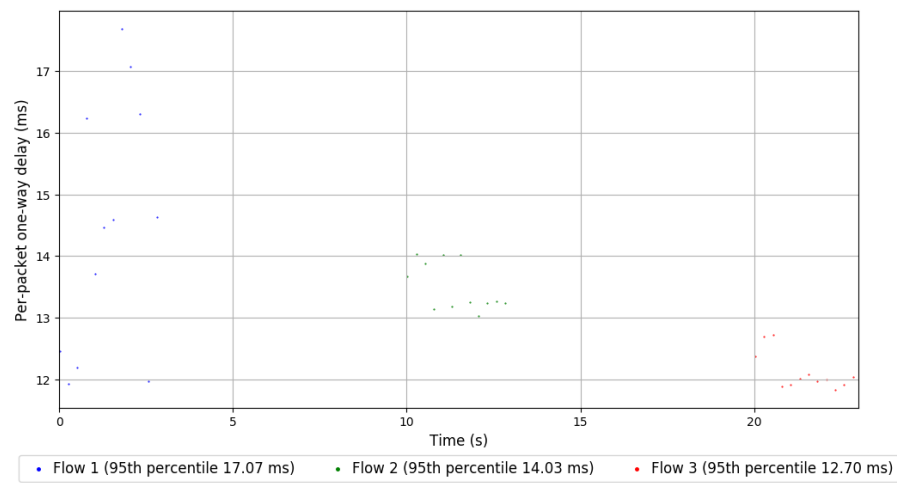
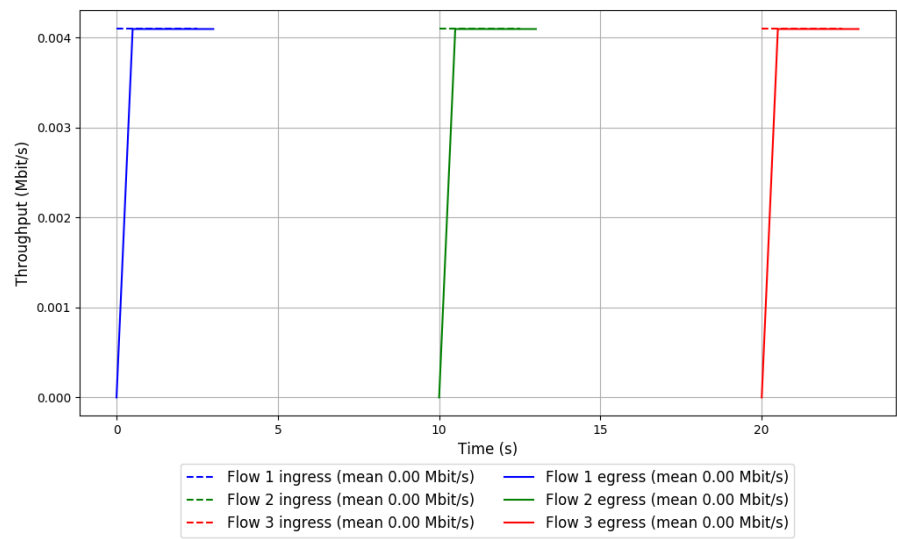
Start at: 2018-05-22 05:47:25

End at: 2018-05-22 05:47:55

Local clock offset: 0.47 ms

Remote clock offset: -0.204 ms

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

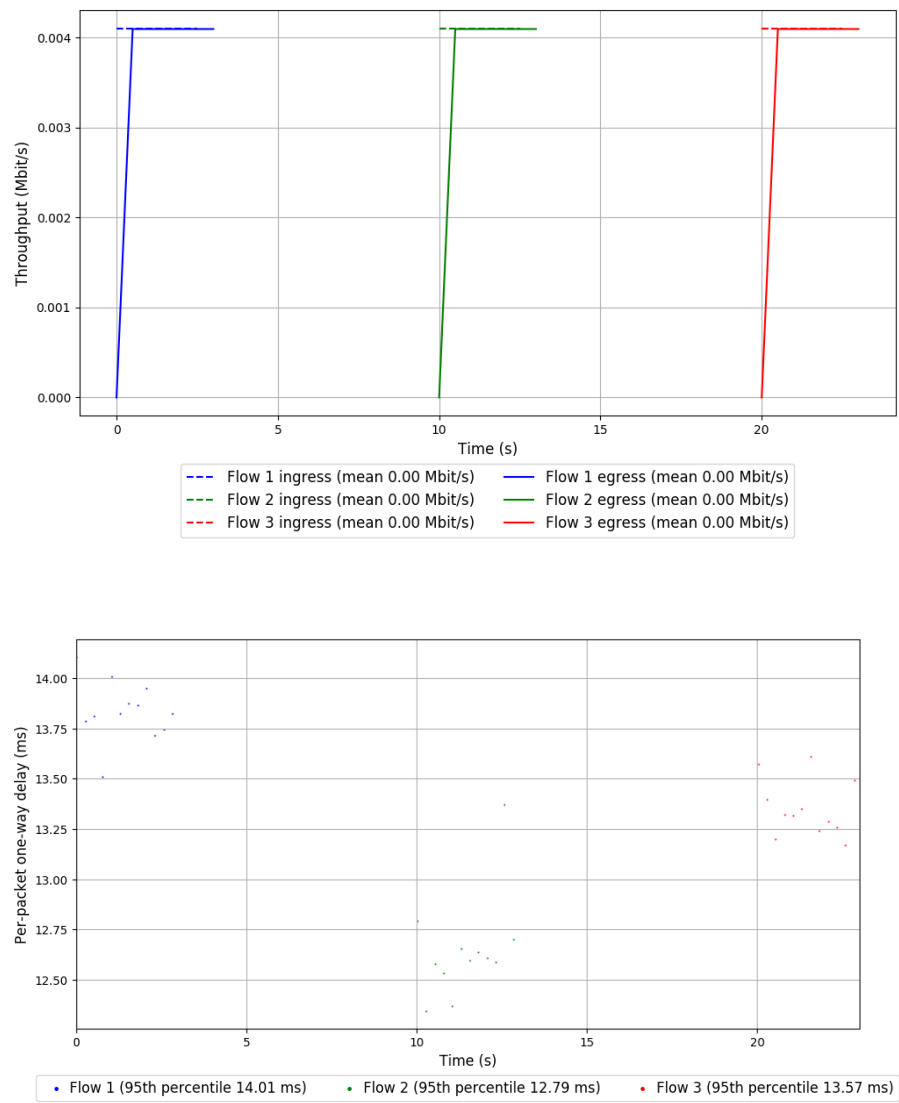
Start at: 2018-05-22 06:05:56

End at: 2018-05-22 06:06:26

Local clock offset: 0.224 ms

Remote clock offset: 4.374 ms

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

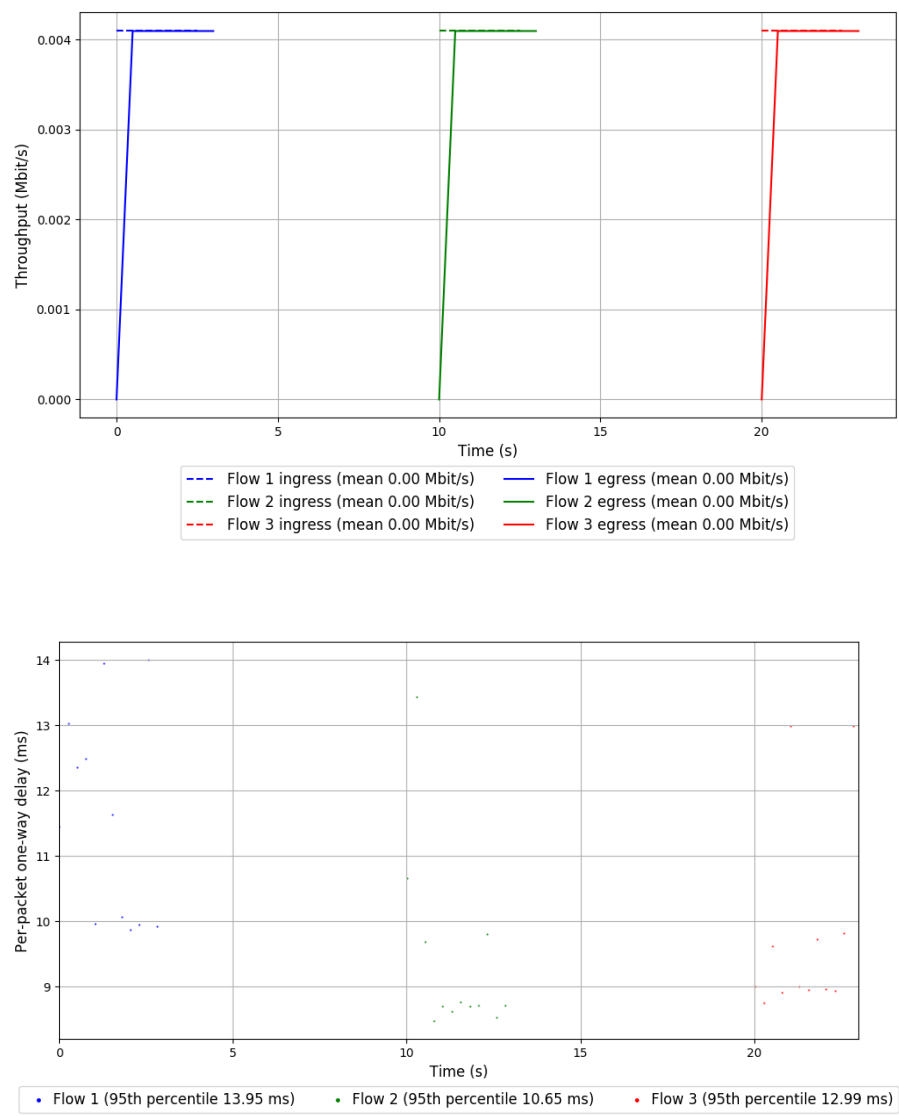
Start at: 2018-05-22 06:24:24

End at: 2018-05-22 06:24:54

Local clock offset: 2.166 ms

Remote clock offset: 5.591 ms

Run 10: Report of PCC-Expr — Data Link

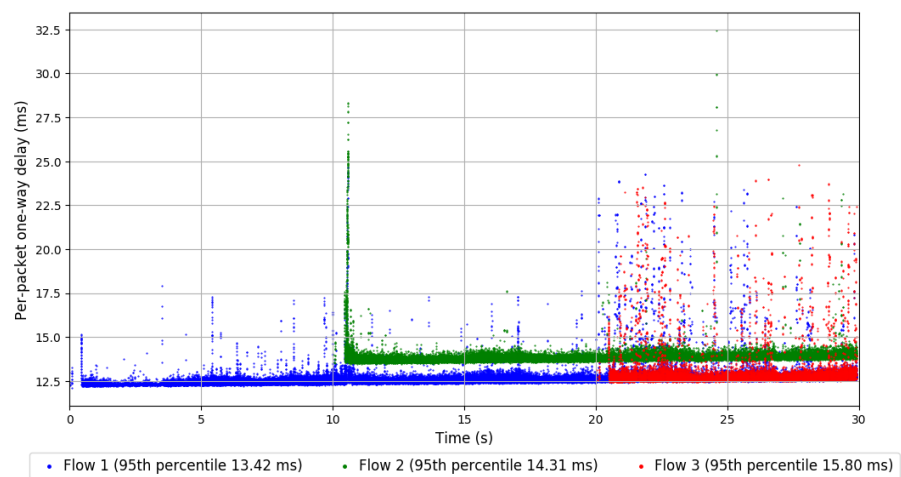
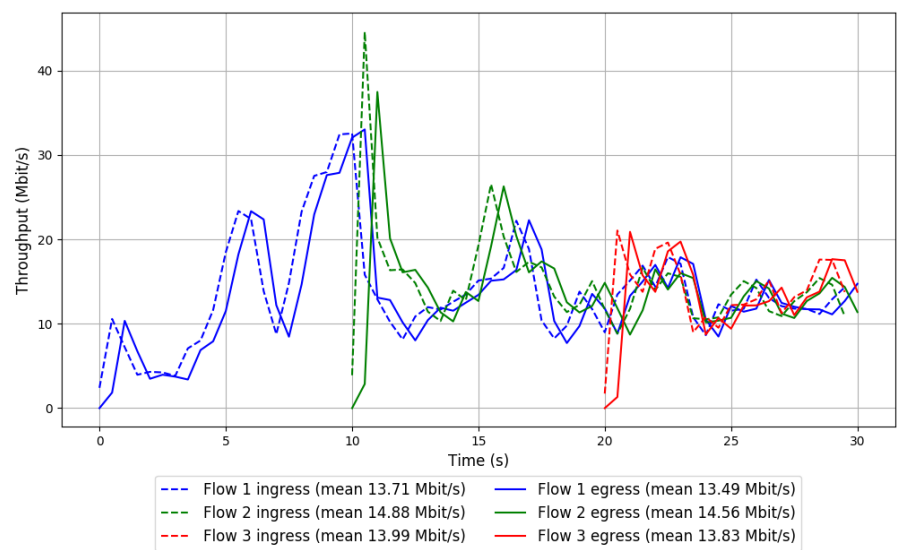


Run 1: Statistics of QUIC Cubic

Start at: 2018-05-22 03:30:42  
End at: 2018-05-22 03:31:12  
Local clock offset: -2.525 ms  
Remote clock offset: -1.938 ms

# Below is generated by plot.py at 2018-05-22 06:36:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 27.73 Mbit/s  
95th percentile per-packet one-way delay: 14.265 ms  
Loss rate: 1.70%  
-- Flow 1:  
Average throughput: 13.49 Mbit/s  
95th percentile per-packet one-way delay: 13.423 ms  
Loss rate: 1.59%  
-- Flow 2:  
Average throughput: 14.56 Mbit/s  
95th percentile per-packet one-way delay: 14.311 ms  
Loss rate: 2.14%  
-- Flow 3:  
Average throughput: 13.83 Mbit/s  
95th percentile per-packet one-way delay: 15.805 ms  
Loss rate: 1.09%

Run 1: Report of QUIC Cubic — Data Link

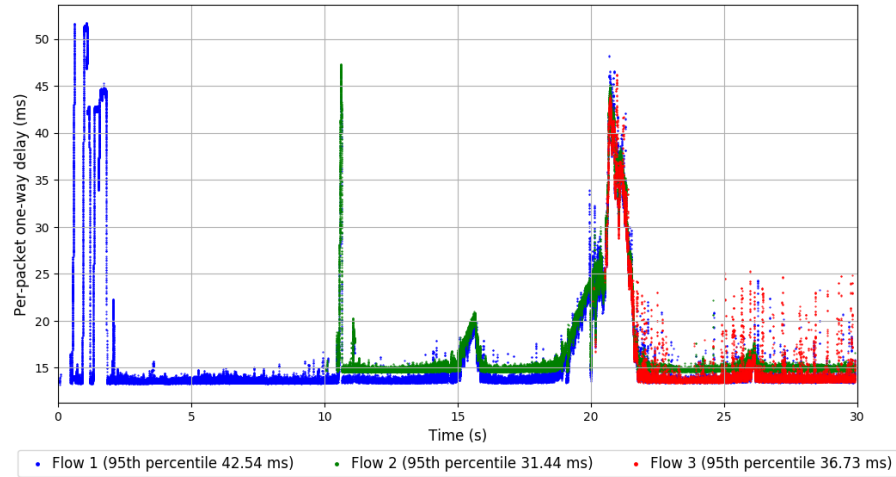
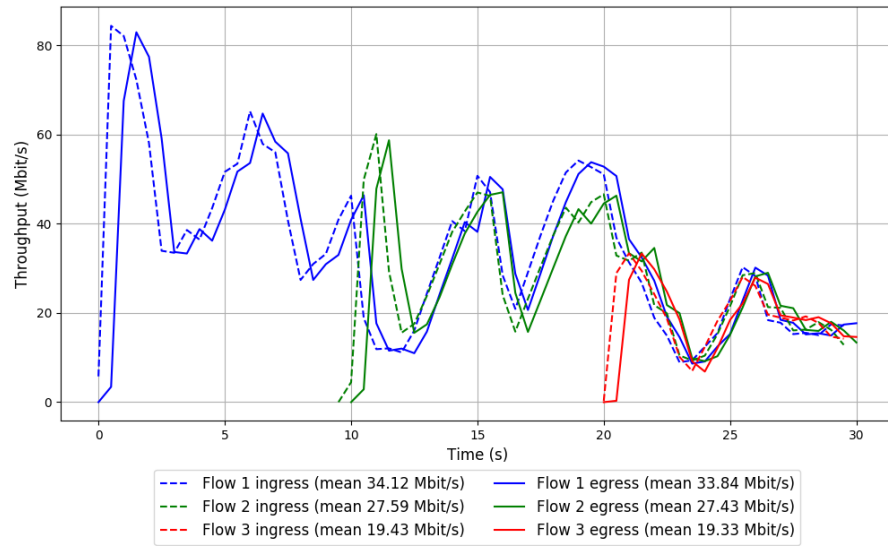


Run 2: Statistics of QUIC Cubic

Start at: 2018-05-22 03:48:54  
End at: 2018-05-22 03:49:24  
Local clock offset: 1.928 ms  
Remote clock offset: -3.904 ms

# Below is generated by plot.py at 2018-05-22 06:36:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 58.45 Mbit/s  
95th percentile per-packet one-way delay: 39.491 ms  
Loss rate: 0.70%  
-- Flow 1:  
Average throughput: 33.84 Mbit/s  
95th percentile per-packet one-way delay: 42.540 ms  
Loss rate: 0.81%  
-- Flow 2:  
Average throughput: 27.43 Mbit/s  
95th percentile per-packet one-way delay: 31.442 ms  
Loss rate: 0.56%  
-- Flow 3:  
Average throughput: 19.33 Mbit/s  
95th percentile per-packet one-way delay: 36.728 ms  
Loss rate: 0.56%

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

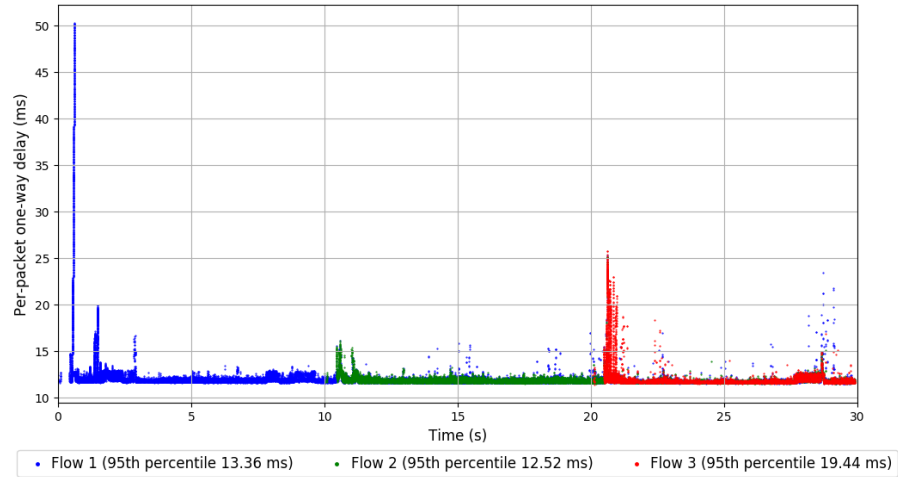
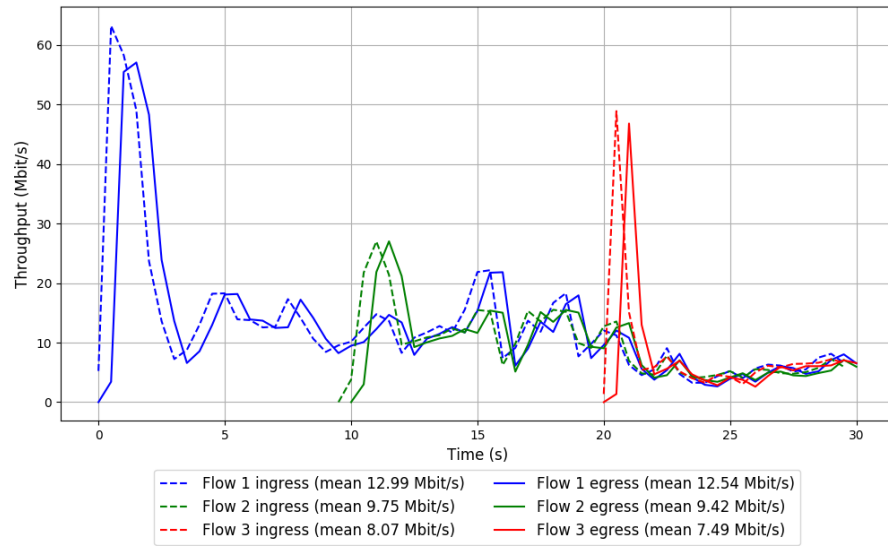


Run 3: Statistics of QUIC Cubic

Start at: 2018-05-22 04:07:21  
End at: 2018-05-22 04:07:51  
Local clock offset: -0.702 ms  
Remote clock offset: -5.409 ms

# Below is generated by plot.py at 2018-05-22 06:36:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 21.28 Mbit/s  
95th percentile per-packet one-way delay: 13.472 ms  
Loss rate: 3.84%  
-- Flow 1:  
Average throughput: 12.54 Mbit/s  
95th percentile per-packet one-way delay: 13.355 ms  
Loss rate: 3.43%  
-- Flow 2:  
Average throughput: 9.42 Mbit/s  
95th percentile per-packet one-way delay: 12.520 ms  
Loss rate: 3.30%  
-- Flow 3:  
Average throughput: 7.49 Mbit/s  
95th percentile per-packet one-way delay: 19.443 ms  
Loss rate: 7.17%

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

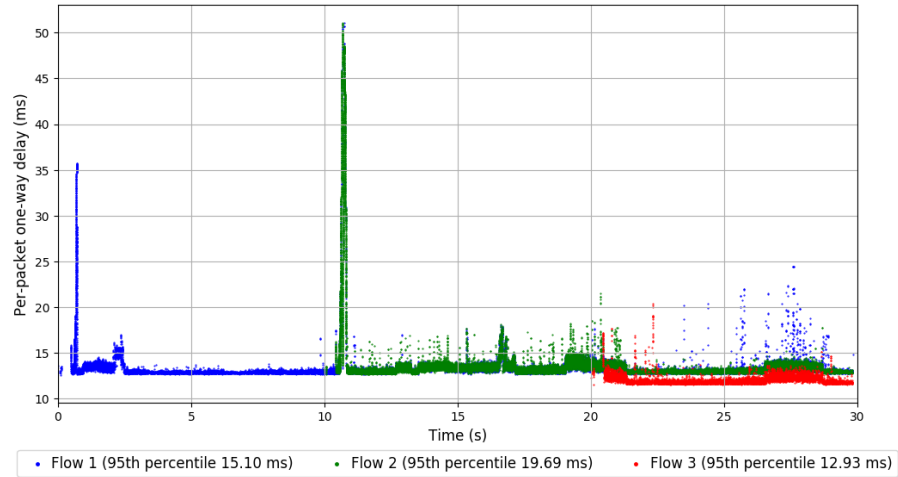
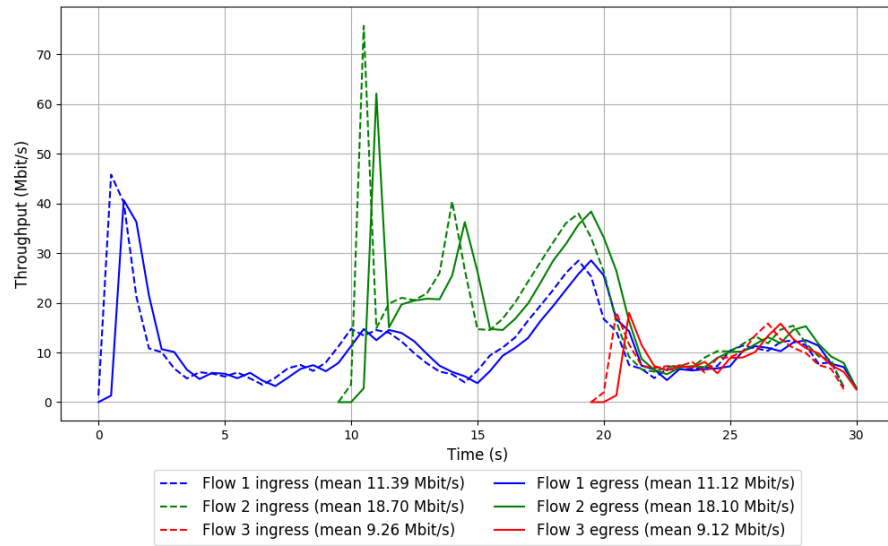


Run 4: Statistics of QUIC Cubic

Start at: 2018-05-22 04:25:38  
End at: 2018-05-22 04:26:08  
Local clock offset: -3.851 ms  
Remote clock offset: -7.622 ms

# Below is generated by plot.py at 2018-05-22 06:36:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 26.18 Mbit/s  
95th percentile per-packet one-way delay: 15.781 ms  
Loss rate: 2.67%  
-- Flow 1:  
Average throughput: 11.12 Mbit/s  
95th percentile per-packet one-way delay: 15.098 ms  
Loss rate: 2.37%  
-- Flow 2:  
Average throughput: 18.10 Mbit/s  
95th percentile per-packet one-way delay: 19.689 ms  
Loss rate: 3.21%  
-- Flow 3:  
Average throughput: 9.12 Mbit/s  
95th percentile per-packet one-way delay: 12.933 ms  
Loss rate: 1.59%

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

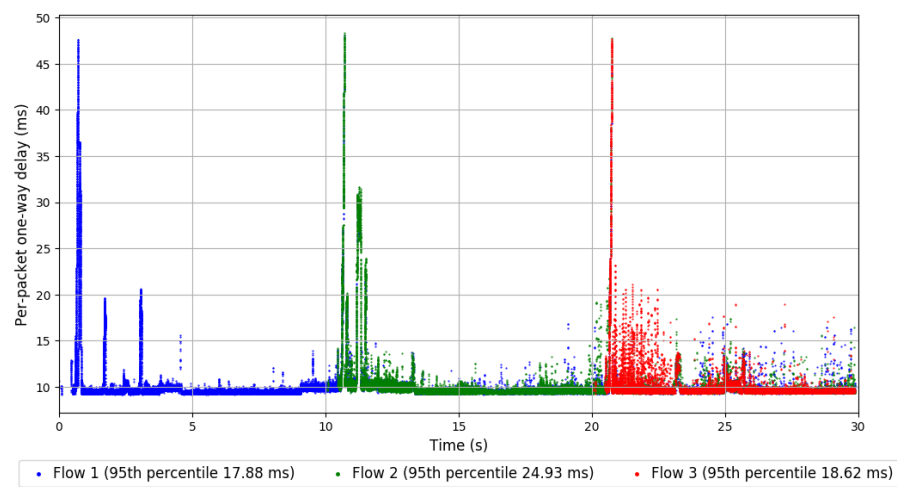
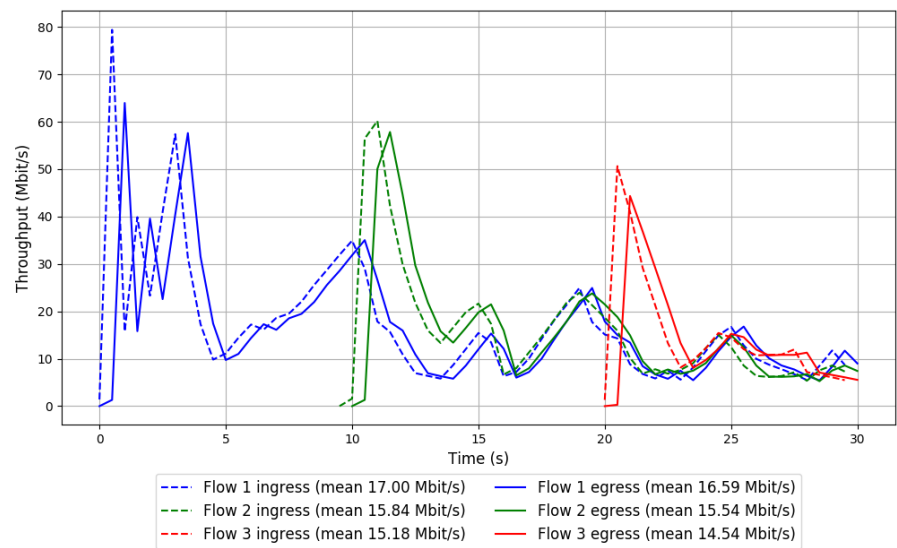


Run 5: Statistics of QUIC Cubic

Start at: 2018-05-22 04:44:04  
End at: 2018-05-22 04:44:34  
Local clock offset: 2.097 ms  
Remote clock offset: -12.016 ms

# Below is generated by plot.py at 2018-05-22 06:36:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 31.72 Mbit/s  
95th percentile per-packet one-way delay: 19.516 ms  
Loss rate: 2.49%  
-- Flow 1:  
Average throughput: 16.59 Mbit/s  
95th percentile per-packet one-way delay: 17.876 ms  
Loss rate: 2.37%  
-- Flow 2:  
Average throughput: 15.54 Mbit/s  
95th percentile per-packet one-way delay: 24.932 ms  
Loss rate: 1.87%  
-- Flow 3:  
Average throughput: 14.54 Mbit/s  
95th percentile per-packet one-way delay: 18.621 ms  
Loss rate: 4.22%

Run 5: Report of QUIC Cubic — Data Link

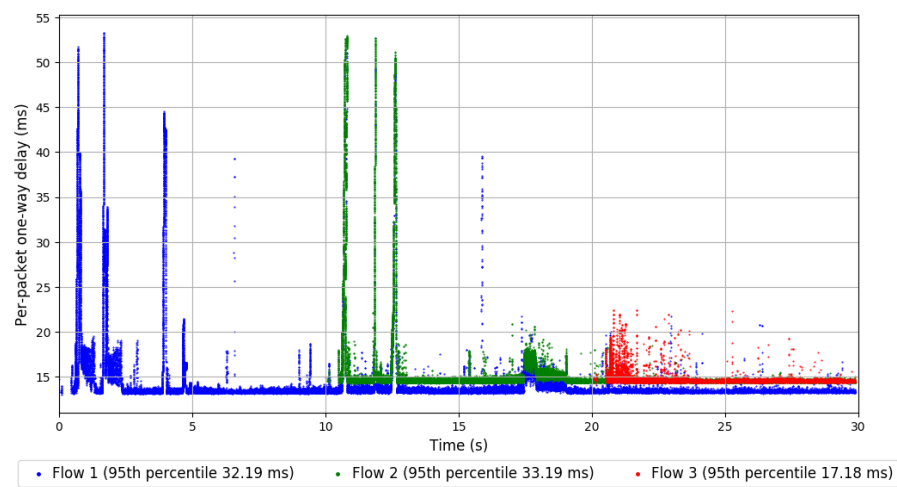
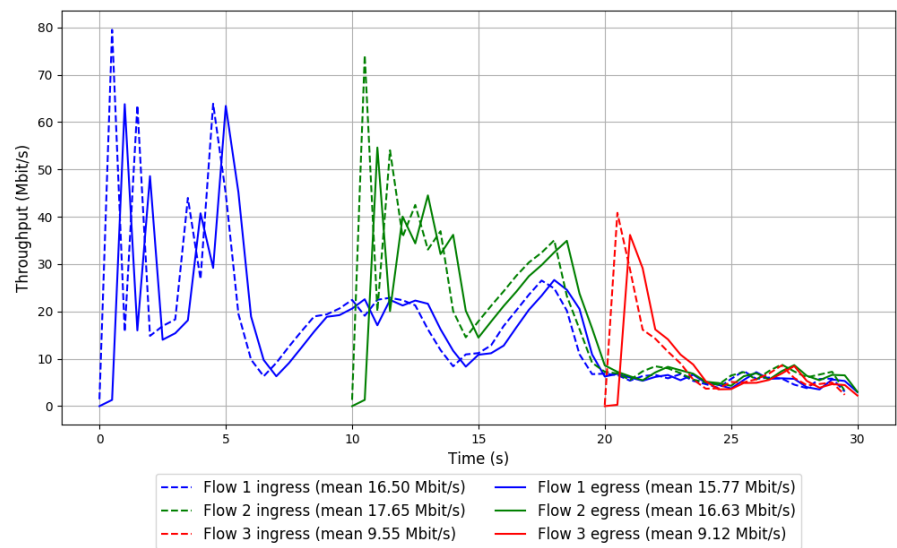


Run 6: Statistics of QUIC Cubic

Start at: 2018-05-22 05:02:34  
End at: 2018-05-22 05:03:04  
Local clock offset: -0.28 ms  
Remote clock offset: -13.357 ms

# Below is generated by plot.py at 2018-05-22 06:36:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 29.83 Mbit/s  
95th percentile per-packet one-way delay: 30.978 ms  
Loss rate: 4.96%  
-- Flow 1:  
Average throughput: 15.77 Mbit/s  
95th percentile per-packet one-way delay: 32.188 ms  
Loss rate: 4.44%  
-- Flow 2:  
Average throughput: 16.63 Mbit/s  
95th percentile per-packet one-way delay: 33.185 ms  
Loss rate: 5.81%  
-- Flow 3:  
Average throughput: 9.12 Mbit/s  
95th percentile per-packet one-way delay: 17.178 ms  
Loss rate: 4.51%

Run 6: Report of QUIC Cubic — Data Link

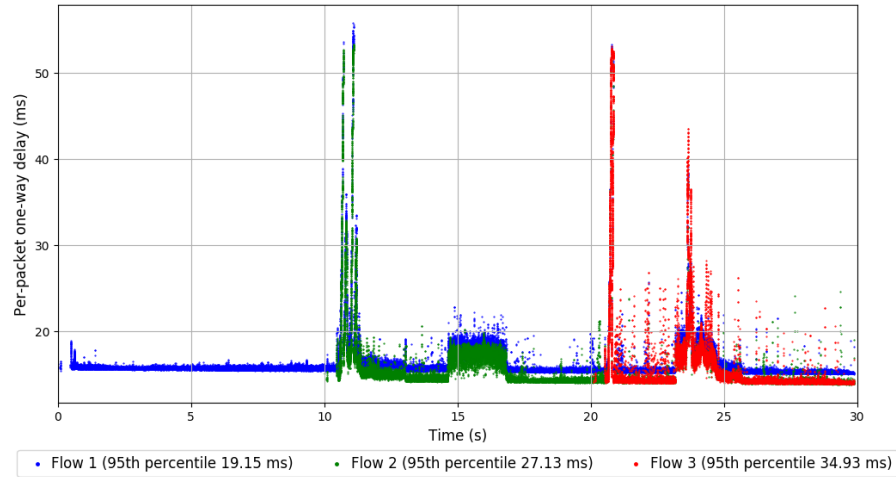
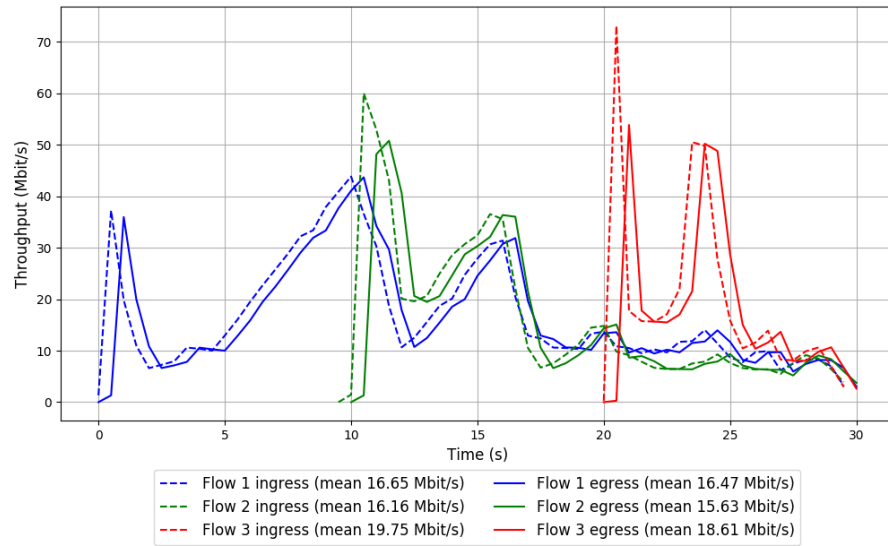


Run 7: Statistics of QUIC Cubic

Start at: 2018-05-22 05:21:25  
End at: 2018-05-22 05:21:55  
Local clock offset: 0.683 ms  
Remote clock offset: -11.119 ms

# Below is generated by plot.py at 2018-05-22 06:36:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 32.99 Mbit/s  
95th percentile per-packet one-way delay: 24.440 ms  
Loss rate: 2.68%  
-- Flow 1:  
Average throughput: 16.47 Mbit/s  
95th percentile per-packet one-way delay: 19.153 ms  
Loss rate: 1.10%  
-- Flow 2:  
Average throughput: 15.63 Mbit/s  
95th percentile per-packet one-way delay: 27.133 ms  
Loss rate: 3.25%  
-- Flow 3:  
Average throughput: 18.61 Mbit/s  
95th percentile per-packet one-way delay: 34.930 ms  
Loss rate: 5.78%

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

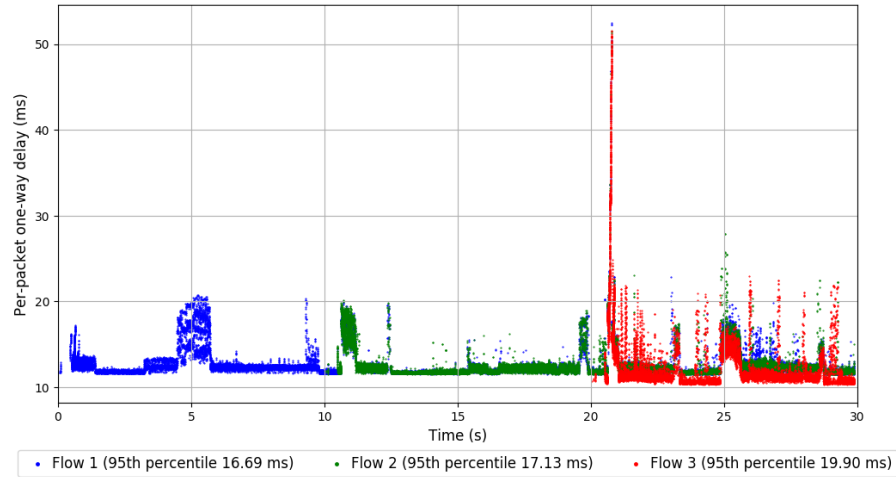
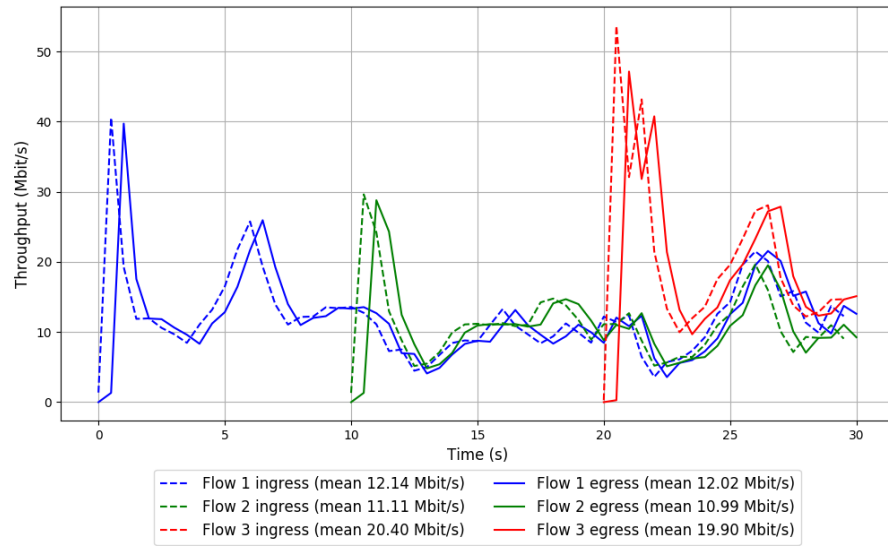


Run 8: Statistics of QUIC Cubic

Start at: 2018-05-22 05:40:27  
End at: 2018-05-22 05:40:57  
Local clock offset: 2.826 ms  
Remote clock offset: -0.801 ms

# Below is generated by plot.py at 2018-05-22 06:36:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 25.88 Mbit/s  
95th percentile per-packet one-way delay: 17.358 ms  
Loss rate: 1.36%  
-- Flow 1:  
Average throughput: 12.02 Mbit/s  
95th percentile per-packet one-way delay: 16.691 ms  
Loss rate: 0.94%  
-- Flow 2:  
Average throughput: 10.99 Mbit/s  
95th percentile per-packet one-way delay: 17.132 ms  
Loss rate: 1.06%  
-- Flow 3:  
Average throughput: 19.90 Mbit/s  
95th percentile per-packet one-way delay: 19.904 ms  
Loss rate: 2.46%

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



Run 9: Statistics of QUIC Cubic

Start at: 2018-05-22 05:59:04

End at: 2018-05-22 05:59:34

Local clock offset: 0.83 ms

Remote clock offset: 3.787 ms

# Below is generated by plot.py at 2018-05-22 06:36:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 38.29 Mbit/s

95th percentile per-packet one-way delay: 16.905 ms

Loss rate: 1.98%

-- Flow 1:

Average throughput: 22.86 Mbit/s

95th percentile per-packet one-way delay: 16.321 ms

Loss rate: 1.40%

-- Flow 2:

Average throughput: 16.43 Mbit/s

95th percentile per-packet one-way delay: 20.725 ms

Loss rate: 3.52%

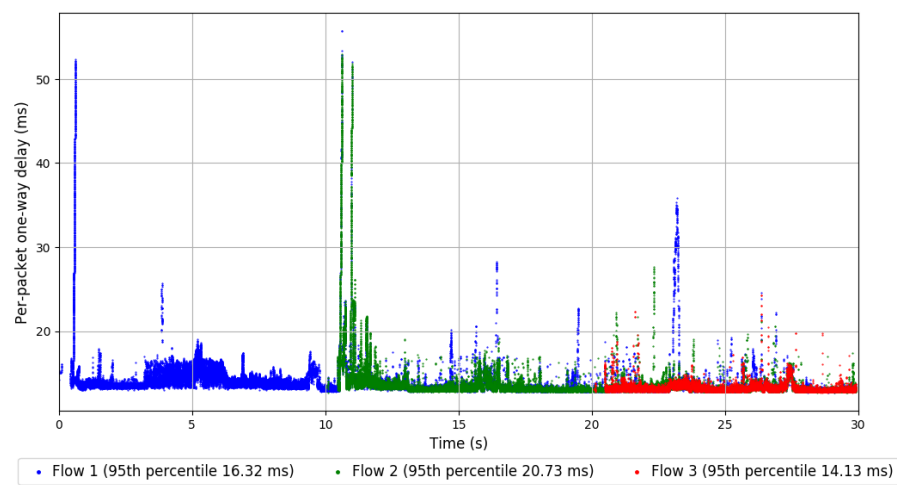
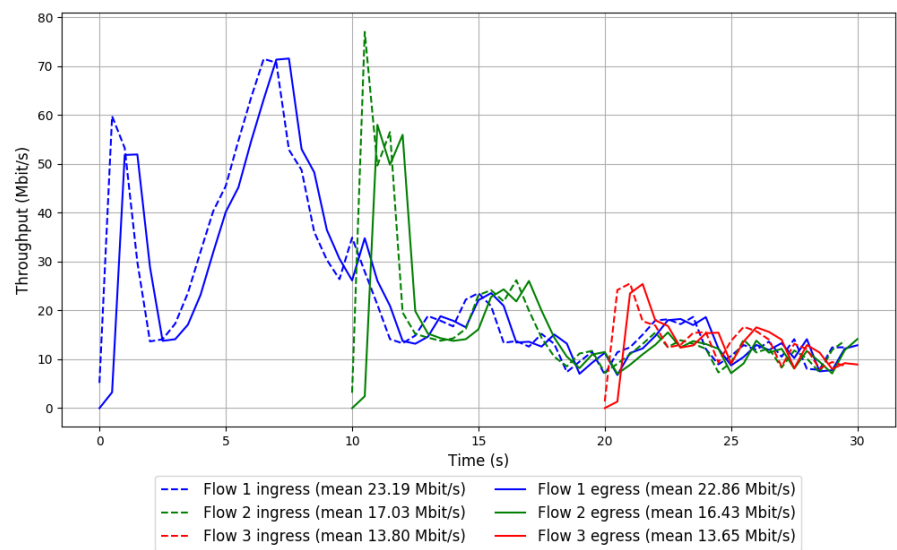
-- Flow 3:

Average throughput: 13.65 Mbit/s

95th percentile per-packet one-way delay: 14.128 ms

Loss rate: 1.09%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-05-22 06:17:38

End at: 2018-05-22 06:18:08

Local clock offset: -0.877 ms

Remote clock offset: 6.054 ms

# Below is generated by plot.py at 2018-05-22 06:36:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 16.31 Mbit/s

95th percentile per-packet one-way delay: 16.559 ms

Loss rate: 3.77%

-- Flow 1:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 16.264 ms

Loss rate: 3.57%

-- Flow 2:

Average throughput: 8.33 Mbit/s

95th percentile per-packet one-way delay: 16.421 ms

Loss rate: 3.42%

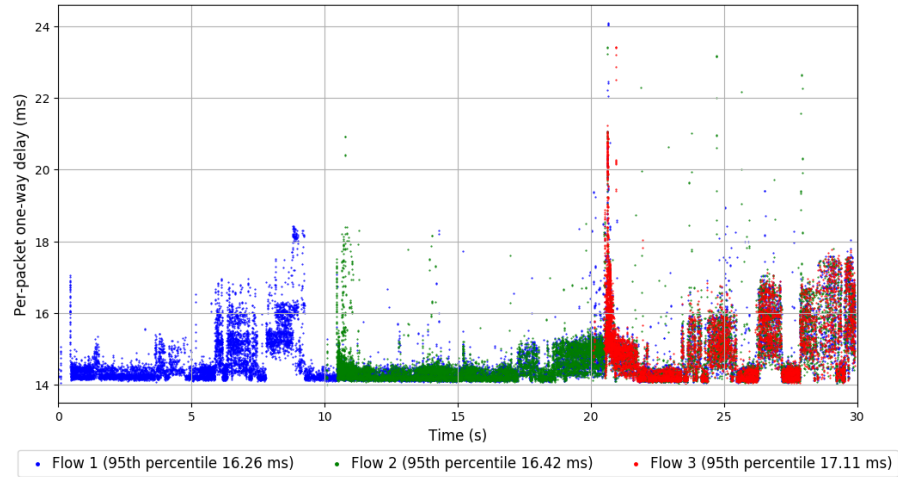
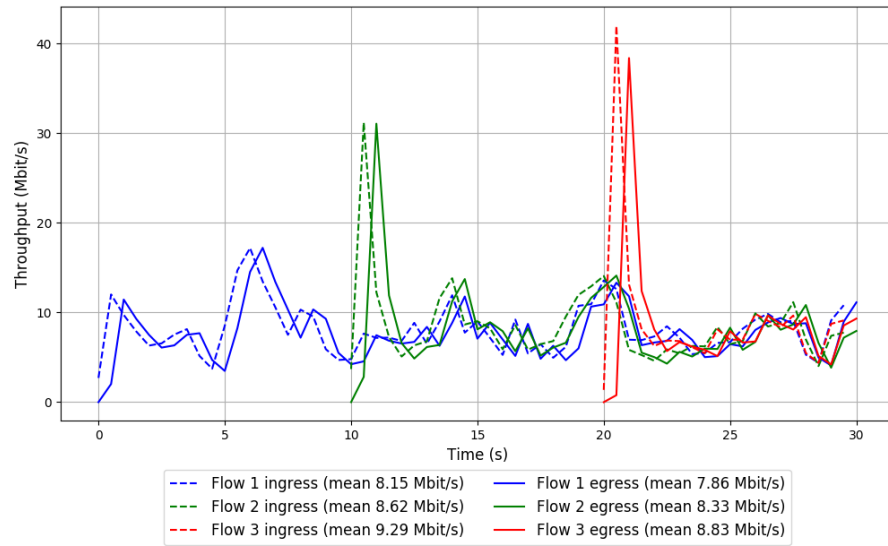
-- Flow 3:

Average throughput: 8.83 Mbit/s

95th percentile per-packet one-way delay: 17.111 ms

Loss rate: 4.95%

## Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2018-05-22 03:36:24

End at: 2018-05-22 03:36:54

Local clock offset: -1.773 ms

Remote clock offset: -2.1 ms

# Below is generated by plot.py at 2018-05-22 06:36:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 16.111 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 16.129 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 16.120 ms

Loss rate: 0.34%

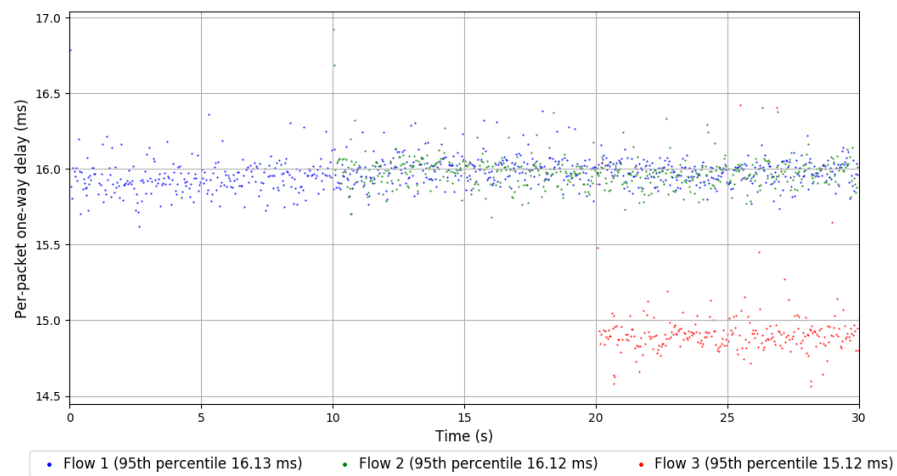
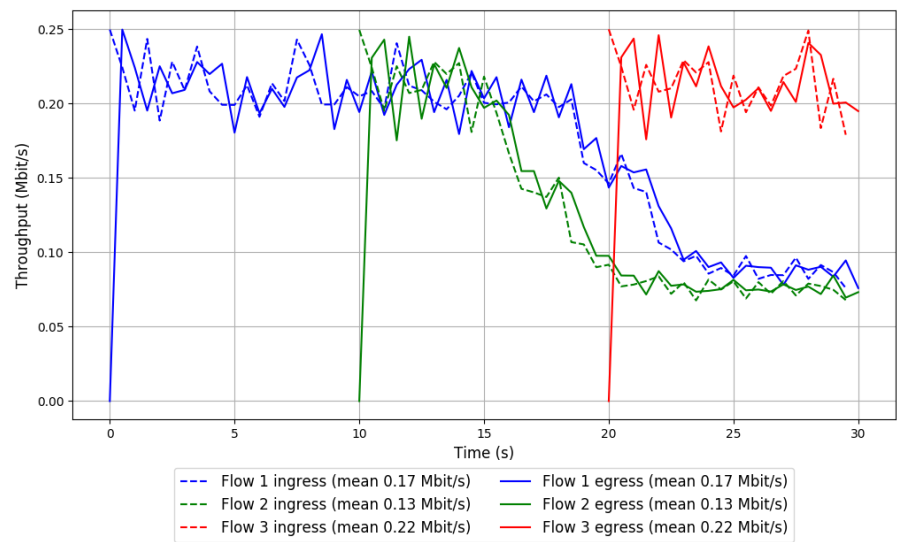
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 15.124 ms

Loss rate: 0.00%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-05-22 03:54:38

End at: 2018-05-22 03:55:08

Local clock offset: 2.847 ms

Remote clock offset: -3.8 ms

# Below is generated by plot.py at 2018-05-22 06:36:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 15.454 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 15.485 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 14.393 ms

Loss rate: 0.00%

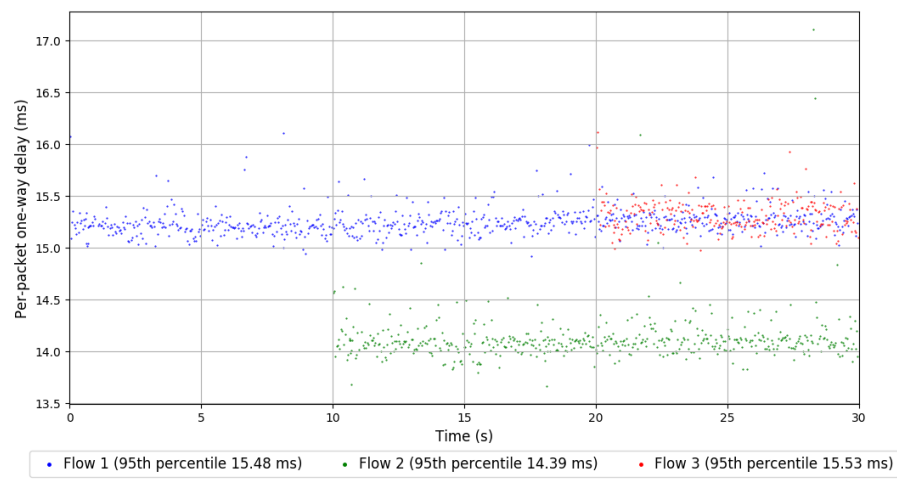
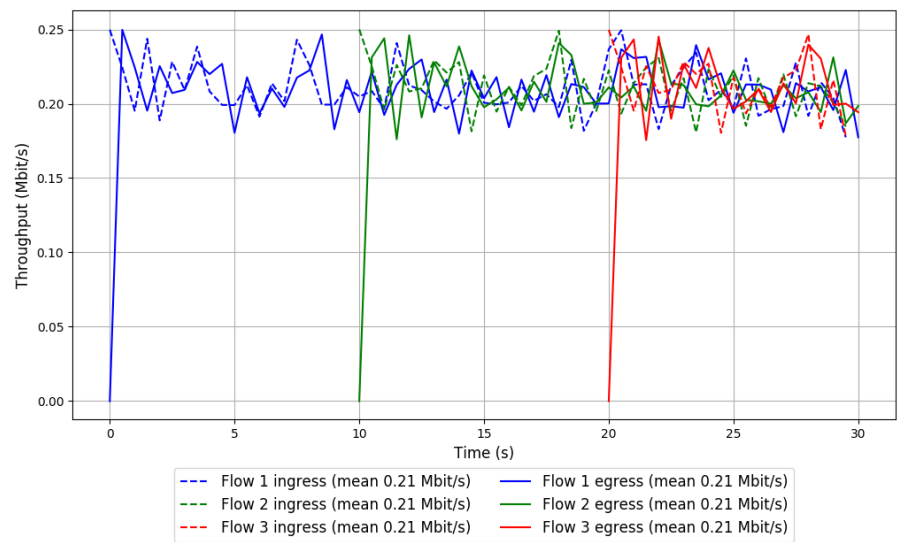
-- Flow 3:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 15.528 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

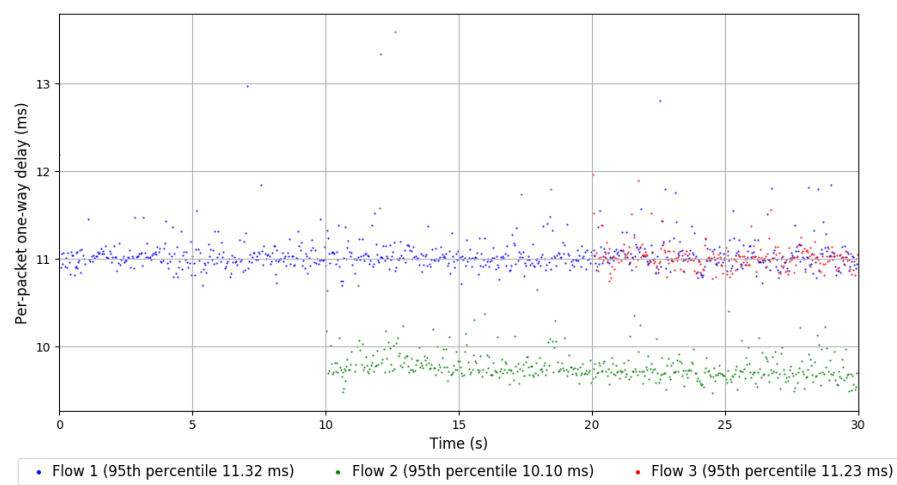
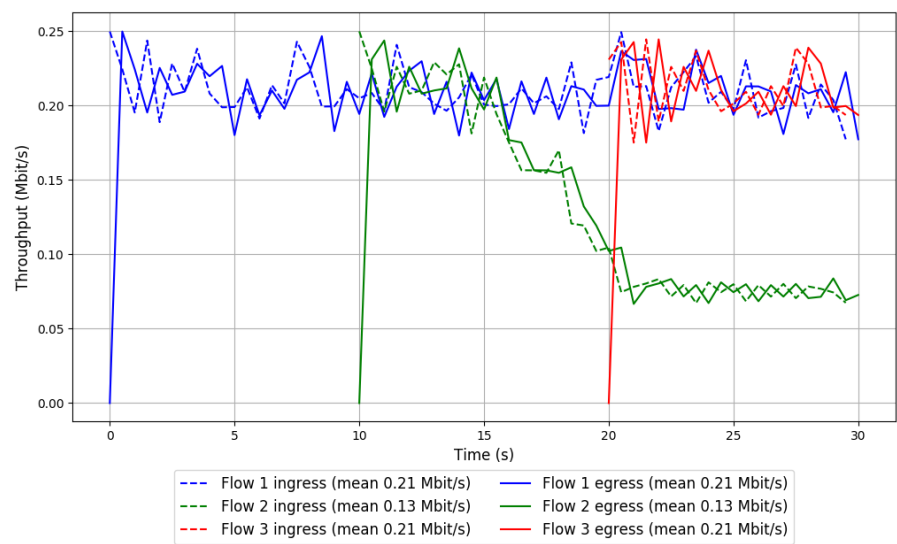


Run 3: Statistics of SCReAM

Start at: 2018-05-22 04:13:03  
End at: 2018-05-22 04:13:33  
Local clock offset: -2.76 ms  
Remote clock offset: -7.755 ms

# Below is generated by plot.py at 2018-05-22 06:36:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.37 Mbit/s  
95th percentile per-packet one-way delay: 11.231 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 11.322 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 10.104 ms  
Loss rate: 0.48%  
-- Flow 3:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 11.234 ms  
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

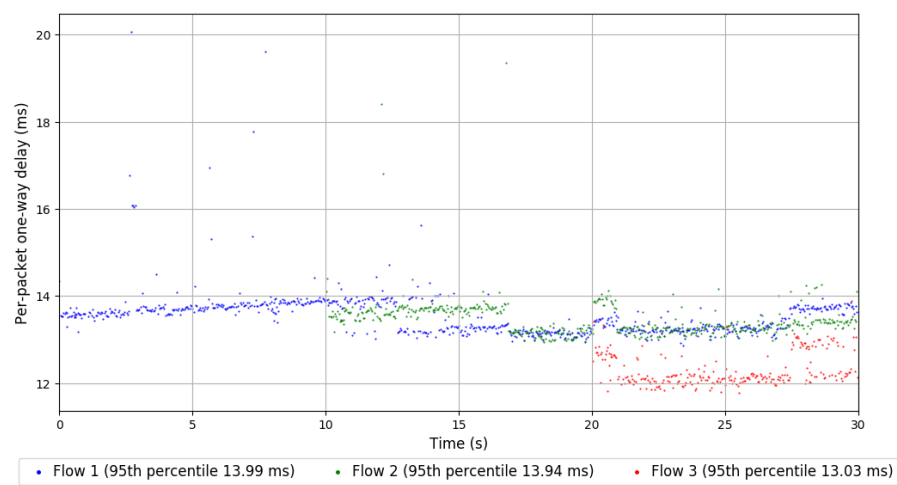
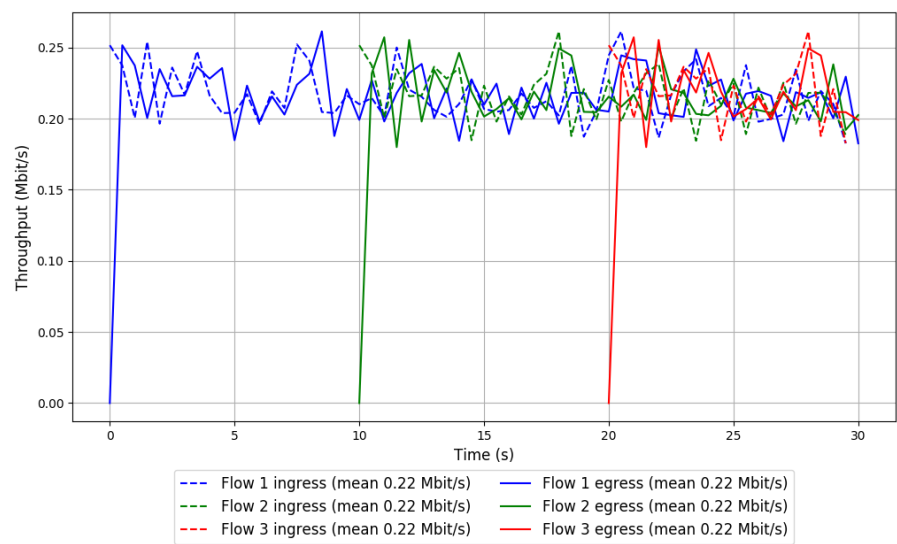


Run 4: Statistics of SReAM

Start at: 2018-05-22 04:31:23  
End at: 2018-05-22 04:31:53  
Local clock offset: -1.914 ms  
Remote clock offset: -9.199 ms

# Below is generated by plot.py at 2018-05-22 06:36:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 13.949 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 13.988 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 13.937 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 13.028 ms  
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

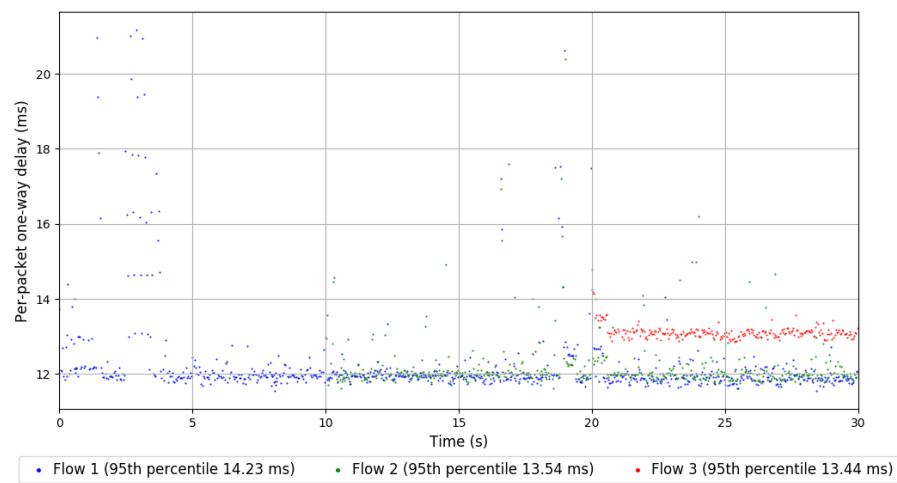
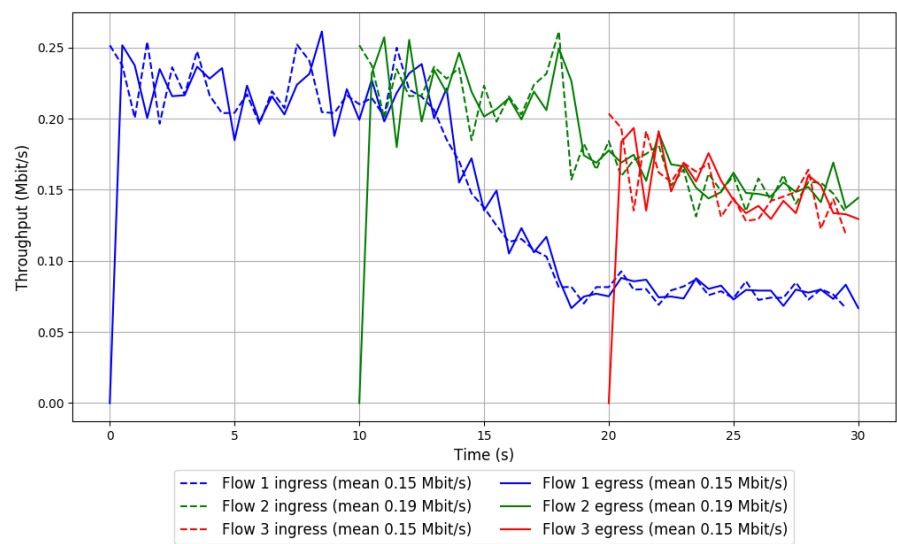


Run 5: Statistics of SReAM

Start at: 2018-05-22 04:49:48  
End at: 2018-05-22 04:50:18  
Local clock offset: 1.836 ms  
Remote clock offset: -10.911 ms

# Below is generated by plot.py at 2018-05-22 06:36:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.32 Mbit/s  
95th percentile per-packet one-way delay: 13.547 ms  
Loss rate: 0.54%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 14.234 ms  
Loss rate: 0.76%  
-- Flow 2:  
Average throughput: 0.19 Mbit/s  
95th percentile per-packet one-way delay: 13.541 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 13.438 ms  
Loss rate: 0.65%

Run 5: Report of SReAM — Data Link

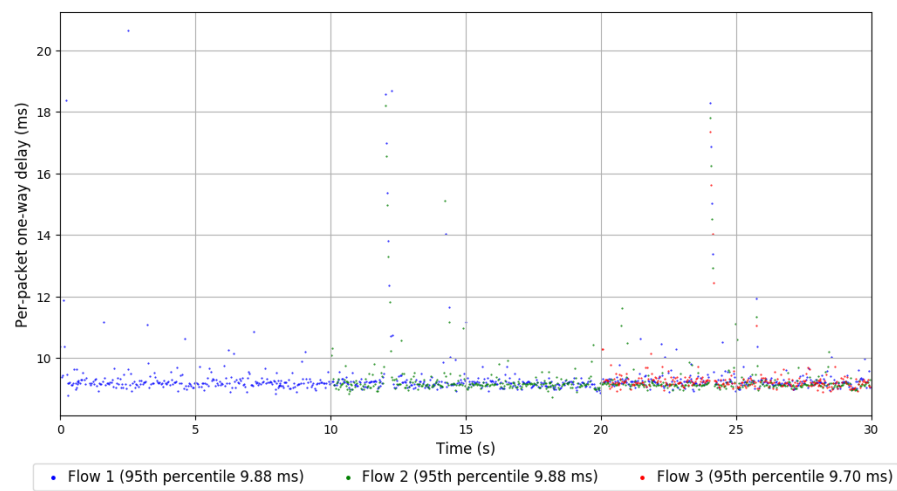
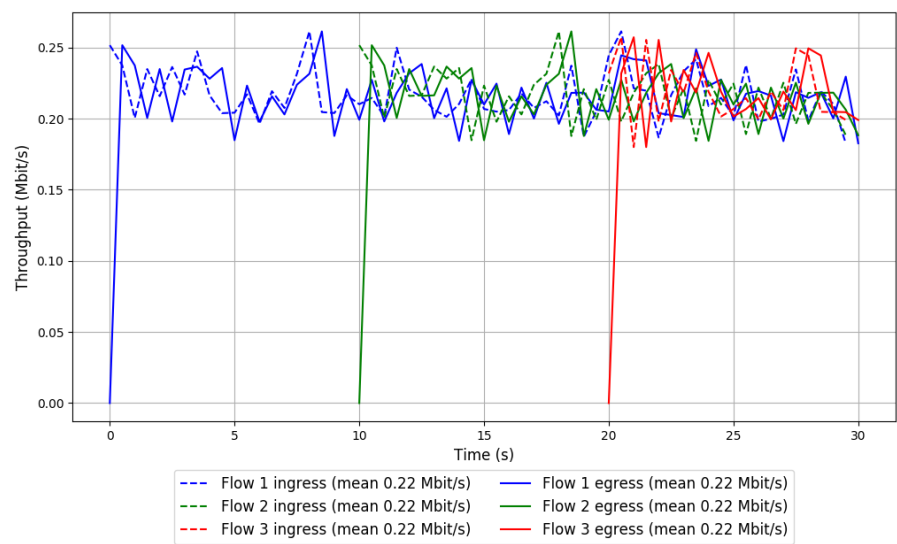


Run 6: Statistics of SReAM

Start at: 2018-05-22 05:08:30  
End at: 2018-05-22 05:09:00  
Local clock offset: 3.869 ms  
Remote clock offset: -14.076 ms

# Below is generated by plot.py at 2018-05-22 06:36:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 9.808 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 9.882 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 9.880 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 9.695 ms  
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

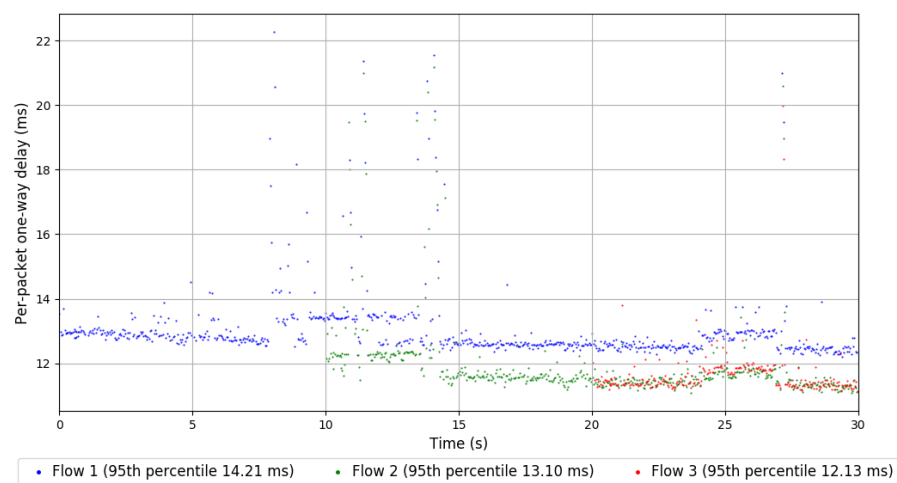
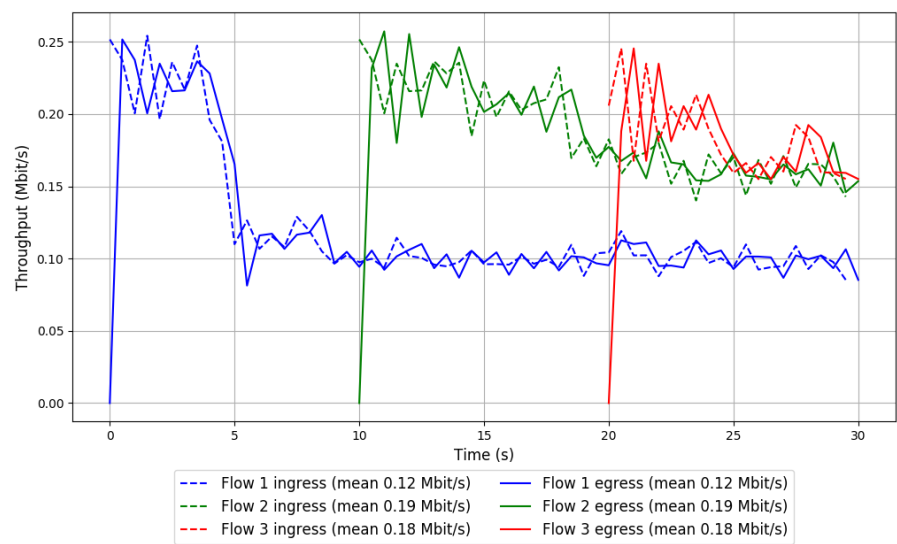


Run 7: Statistics of SReAM

Start at: 2018-05-22 05:27:21  
End at: 2018-05-22 05:27:51  
Local clock offset: 1.75 ms  
Remote clock offset: -7.254 ms

# Below is generated by plot.py at 2018-05-22 06:36:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.31 Mbit/s  
95th percentile per-packet one-way delay: 13.705 ms  
Loss rate: 0.54%  
-- Flow 1:  
Average throughput: 0.12 Mbit/s  
95th percentile per-packet one-way delay: 14.206 ms  
Loss rate: 0.86%  
-- Flow 2:  
Average throughput: 0.19 Mbit/s  
95th percentile per-packet one-way delay: 13.104 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 0.18 Mbit/s  
95th percentile per-packet one-way delay: 12.134 ms  
Loss rate: 0.48%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-05-22 05:46:19

End at: 2018-05-22 05:46:49

Local clock offset: 0.521 ms

Remote clock offset: 0.51 ms

# Below is generated by plot.py at 2018-05-22 06:36:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 14.799 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 13.889 ms

Loss rate: 1.35%

-- Flow 2:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 14.849 ms

Loss rate: 0.85%

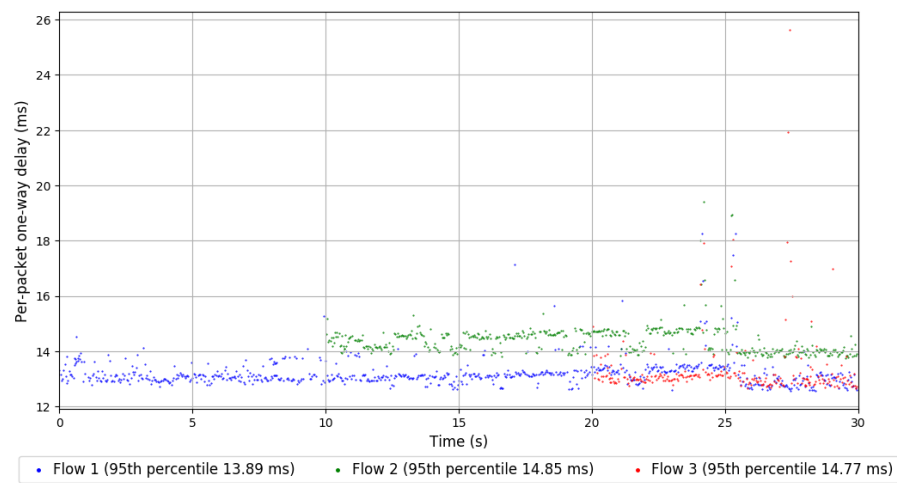
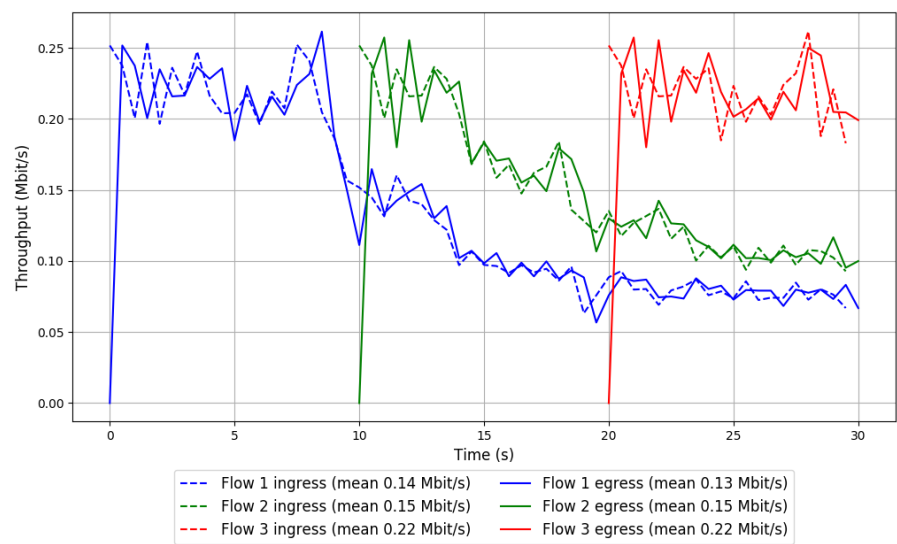
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 14.765 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-05-22 06:04:45

End at: 2018-05-22 06:05:15

Local clock offset: 2.265 ms

Remote clock offset: 2.356 ms

# Below is generated by plot.py at 2018-05-22 06:36:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 9.804 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 9.332 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 9.915 ms

Loss rate: 0.49%

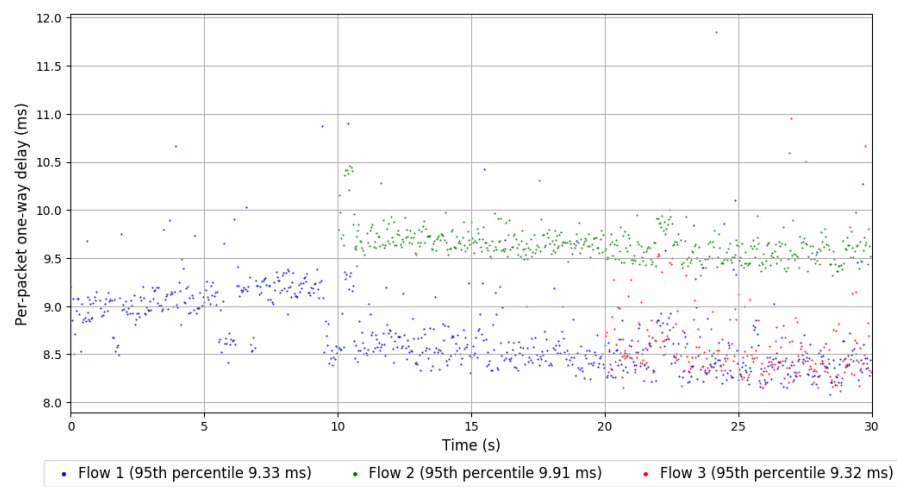
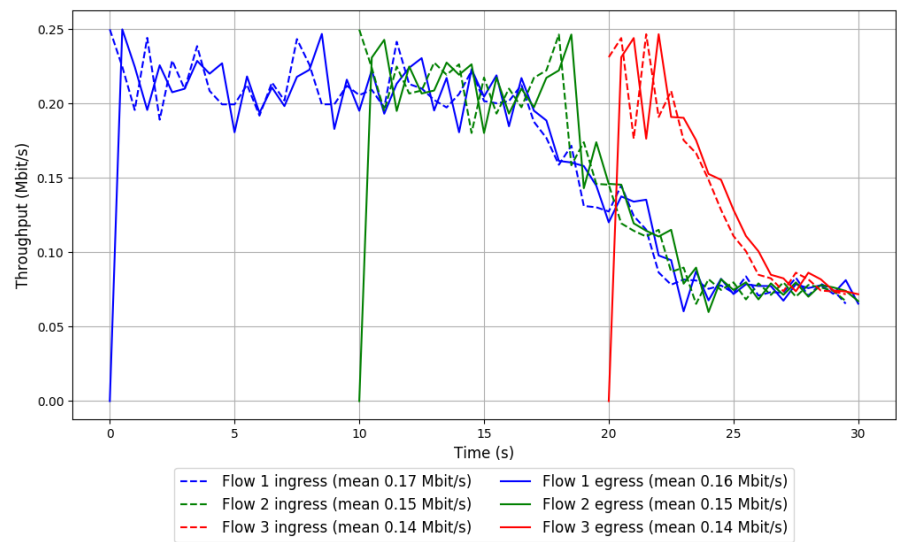
-- Flow 3:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 9.324 ms

Loss rate: 1.16%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-05-22 06:23:19

End at: 2018-05-22 06:23:49

Local clock offset: 2.227 ms

Remote clock offset: 6.36 ms

# Below is generated by plot.py at 2018-05-22 06:36:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 13.637 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 12.975 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 14.331 ms

Loss rate: 1.61%

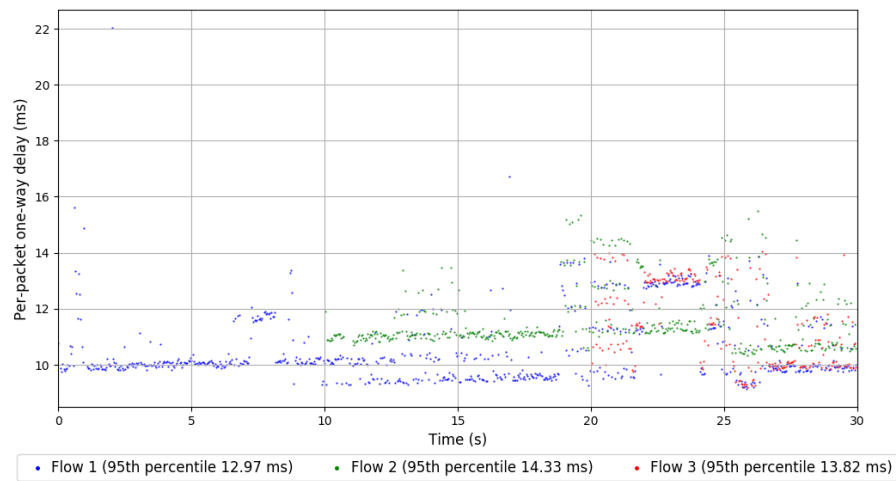
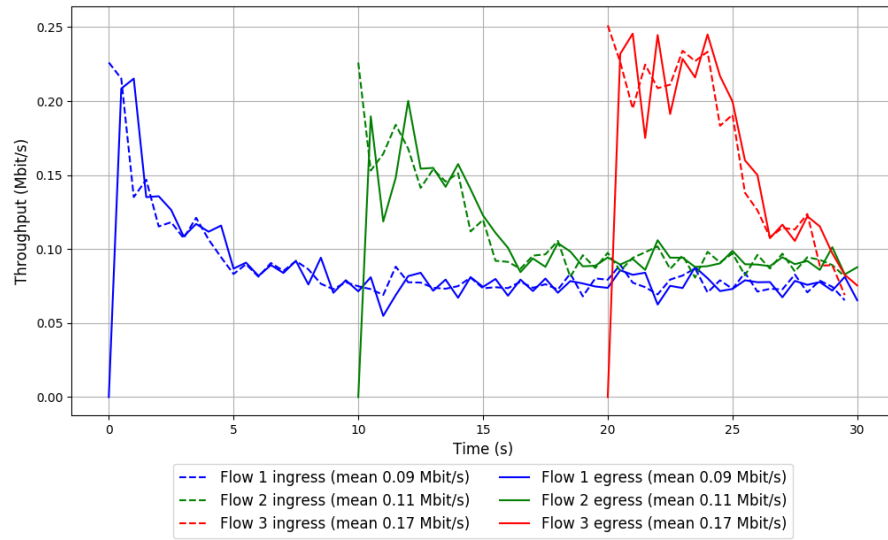
-- Flow 3:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 13.818 ms

Loss rate: 0.87%

## Run 10: Report of SReAM — Data Link

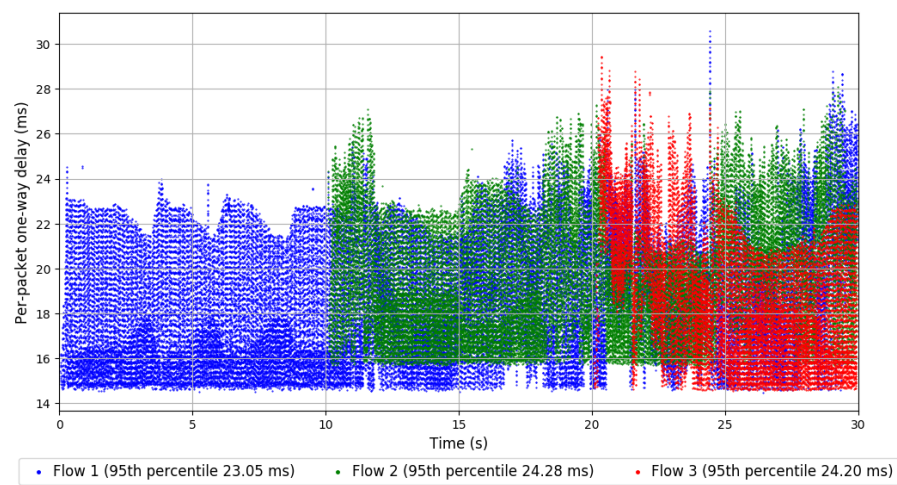
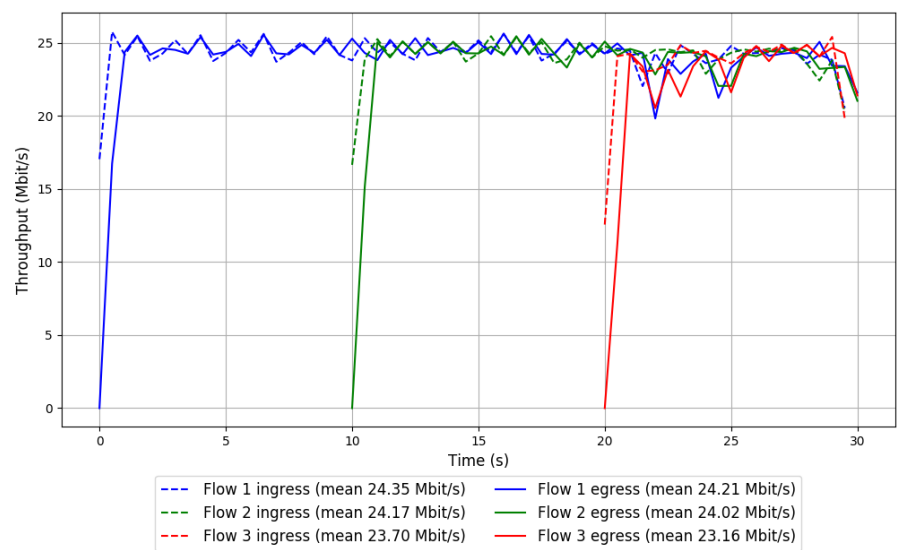


Run 1: Statistics of Sprout

Start at: 2018-05-22 03:21:17  
End at: 2018-05-22 03:21:47  
Local clock offset: -8.716 ms  
Remote clock offset: -1.567 ms

# Below is generated by plot.py at 2018-05-22 06:36:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 47.84 Mbit/s  
95th percentile per-packet one-way delay: 23.749 ms  
Loss rate: 0.83%  
-- Flow 1:  
Average throughput: 24.21 Mbit/s  
95th percentile per-packet one-way delay: 23.051 ms  
Loss rate: 0.55%  
-- Flow 2:  
Average throughput: 24.02 Mbit/s  
95th percentile per-packet one-way delay: 24.277 ms  
Loss rate: 0.59%  
-- Flow 3:  
Average throughput: 23.16 Mbit/s  
95th percentile per-packet one-way delay: 24.204 ms  
Loss rate: 2.21%

Run 1: Report of Sprout — Data Link

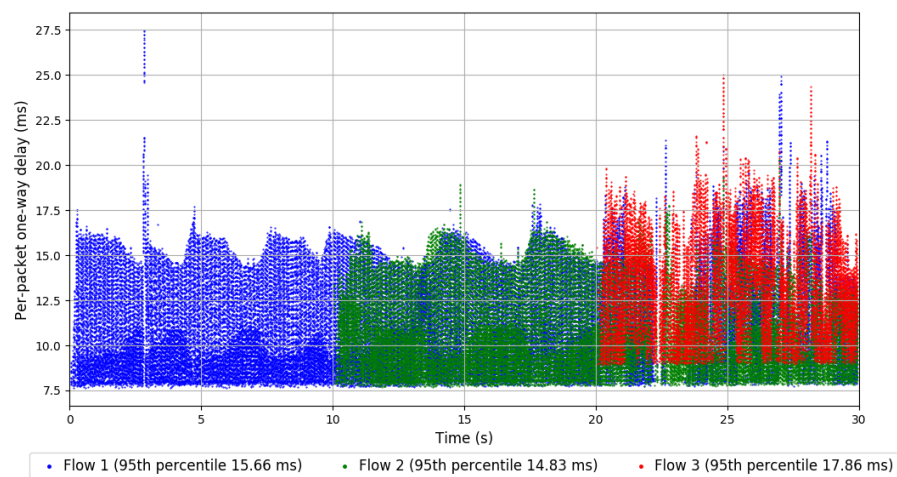
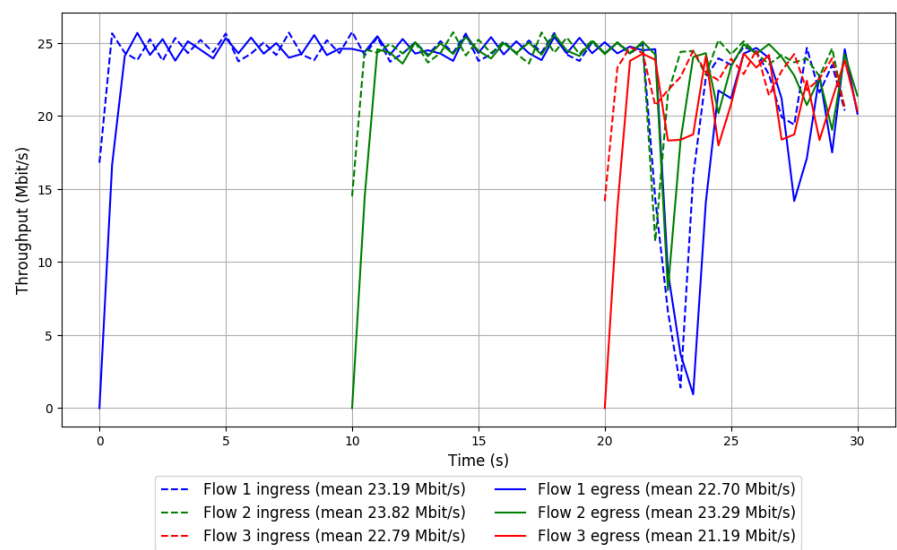


## Run 2: Statistics of Sprout

Start at: 2018-05-22 03:39:39  
End at: 2018-05-22 03:40:09  
Local clock offset: 1.169 ms  
Remote clock offset: -7.542 ms

```
# Below is generated by plot.py at 2018-05-22 06:36:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 45.19 Mbit/s
95th percentile per-packet one-way delay: 15.972 ms
Loss rate: 2.93%
-- Flow 1:
Average throughput: 22.70 Mbit/s
95th percentile per-packet one-way delay: 15.665 ms
Loss rate: 2.09%
-- Flow 2:
Average throughput: 23.29 Mbit/s
95th percentile per-packet one-way delay: 14.827 ms
Loss rate: 2.21%
-- Flow 3:
Average throughput: 21.19 Mbit/s
95th percentile per-packet one-way delay: 17.862 ms
Loss rate: 7.01%
```

Run 2: Report of Sprout — Data Link

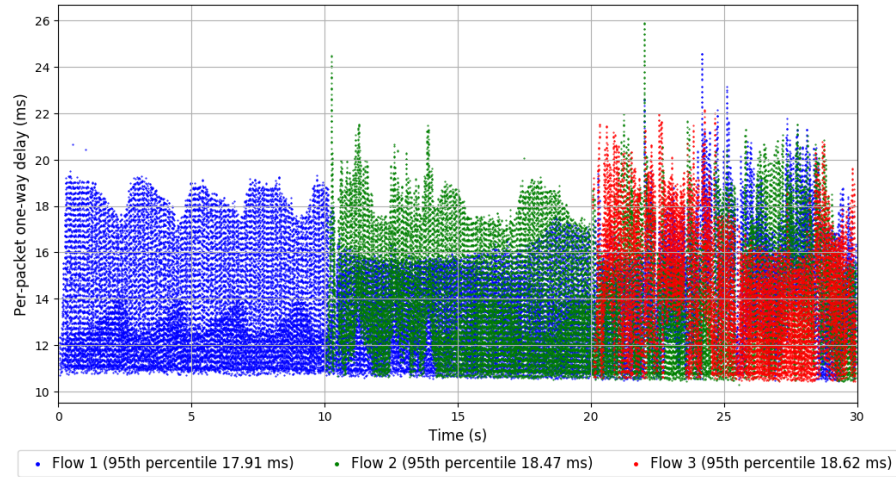
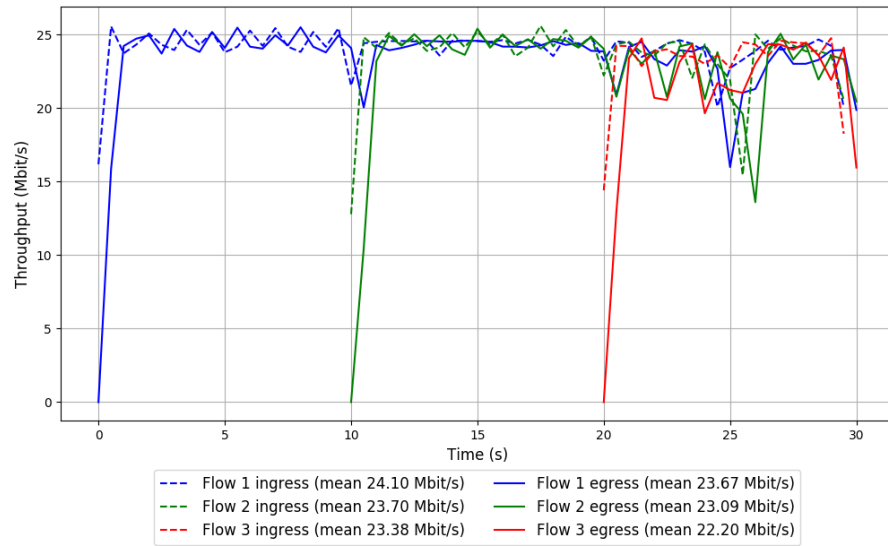


### Run 3: Statistics of Sprout

Start at: 2018-05-22 03:57:53  
End at: 2018-05-22 03:58:23  
Local clock offset: 4.014 ms  
Remote clock offset: -5.793 ms

```
# Below is generated by plot.py at 2018-05-22 06:36:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 46.37 Mbit/s
95th percentile per-packet one-way delay: 18.254 ms
Loss rate: 2.56%
-- Flow 1:
Average throughput: 23.67 Mbit/s
95th percentile per-packet one-way delay: 17.912 ms
Loss rate: 1.78%
-- Flow 2:
Average throughput: 23.09 Mbit/s
95th percentile per-packet one-way delay: 18.473 ms
Loss rate: 2.55%
-- Flow 3:
Average throughput: 22.20 Mbit/s
95th percentile per-packet one-way delay: 18.623 ms
Loss rate: 5.03%
```

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

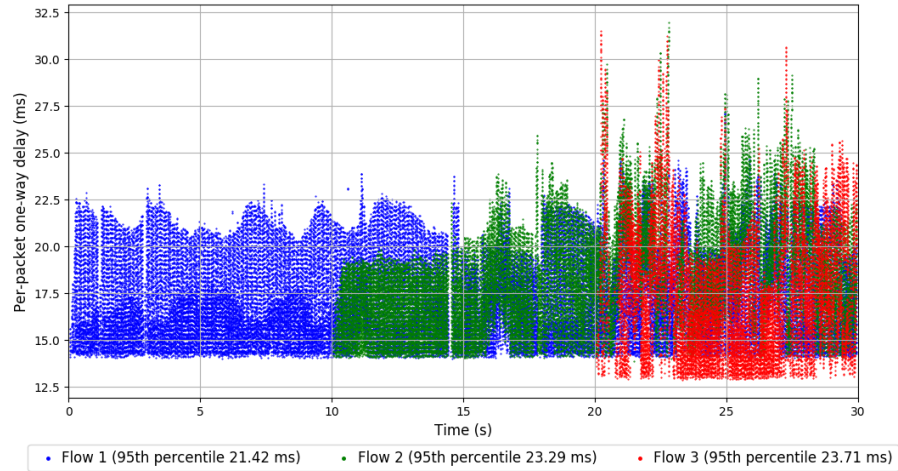
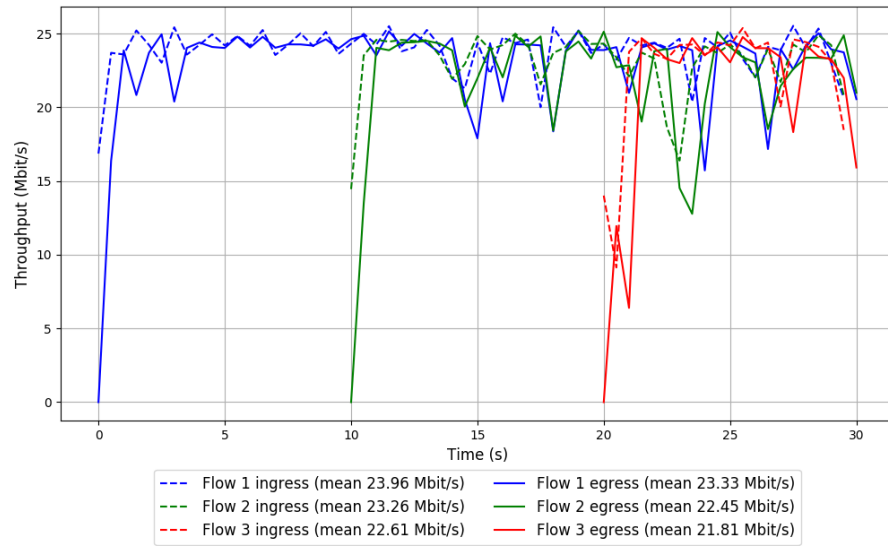


#### Run 4: Statistics of Sprout

Start at: 2018-05-22 04:16:18  
End at: 2018-05-22 04:16:48  
Local clock offset: -6.171 ms  
Remote clock offset: -8.091 ms

```
# Below is generated by plot.py at 2018-05-22 06:36:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 45.48 Mbit/s
95th percentile per-packet one-way delay: 22.378 ms
Loss rate: 3.03%
-- Flow 1:
Average throughput: 23.33 Mbit/s
95th percentile per-packet one-way delay: 21.418 ms
Loss rate: 2.61%
-- Flow 2:
Average throughput: 22.45 Mbit/s
95th percentile per-packet one-way delay: 23.286 ms
Loss rate: 3.45%
-- Flow 3:
Average throughput: 21.81 Mbit/s
95th percentile per-packet one-way delay: 23.713 ms
Loss rate: 3.48%
```

# Run 4: Report of Sprout — Data Link

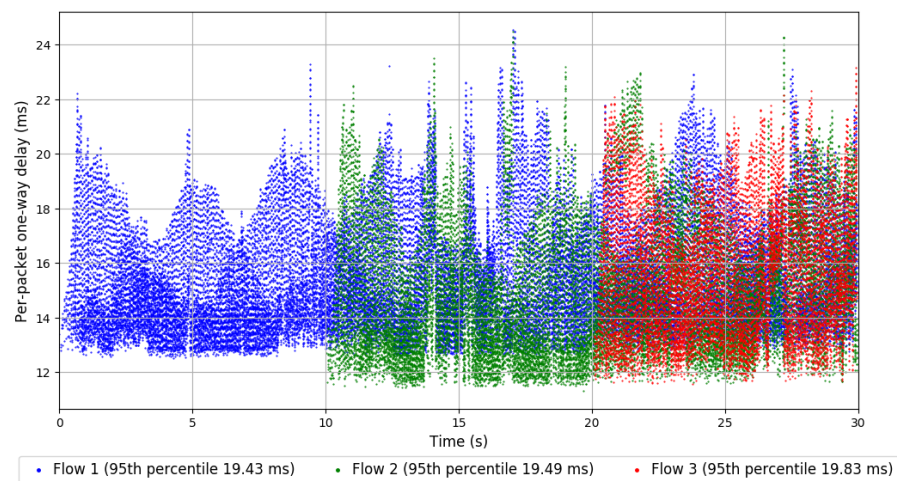
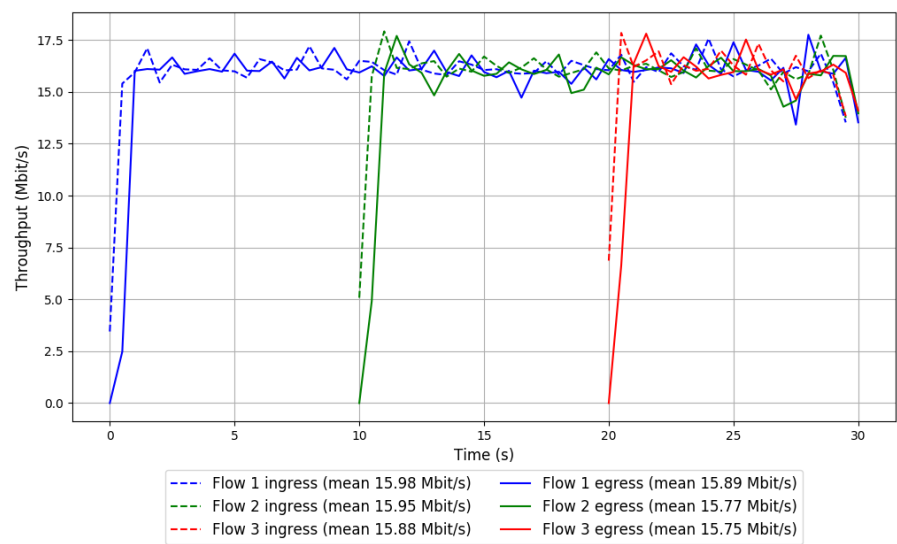


Run 5: Statistics of Sprout

Start at: 2018-05-22 04:34:40  
End at: 2018-05-22 04:35:10  
Local clock offset: 0.587 ms  
Remote clock offset: -8.55 ms

# Below is generated by plot.py at 2018-05-22 06:36:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 31.58 Mbit/s  
95th percentile per-packet one-way delay: 19.536 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 15.89 Mbit/s  
95th percentile per-packet one-way delay: 19.429 ms  
Loss rate: 0.56%  
-- Flow 2:  
Average throughput: 15.77 Mbit/s  
95th percentile per-packet one-way delay: 19.490 ms  
Loss rate: 1.12%  
-- Flow 3:  
Average throughput: 15.75 Mbit/s  
95th percentile per-packet one-way delay: 19.826 ms  
Loss rate: 0.81%

Run 5: Report of Sprout — Data Link

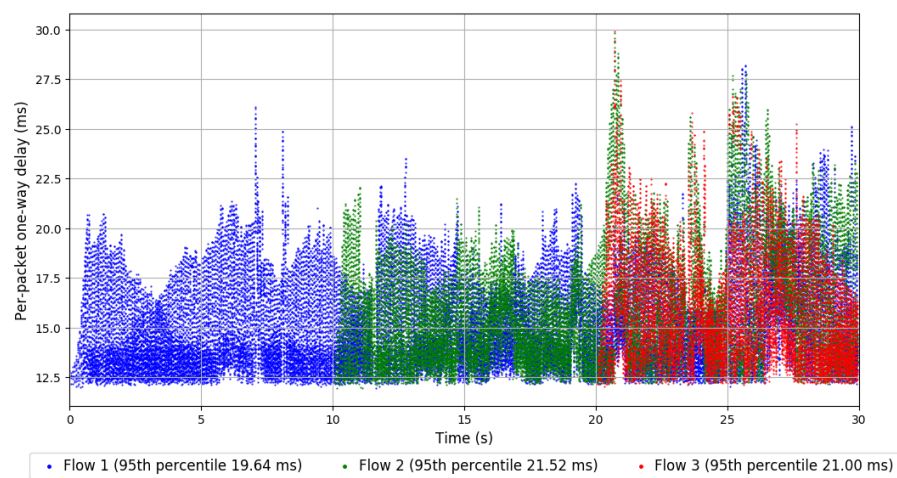
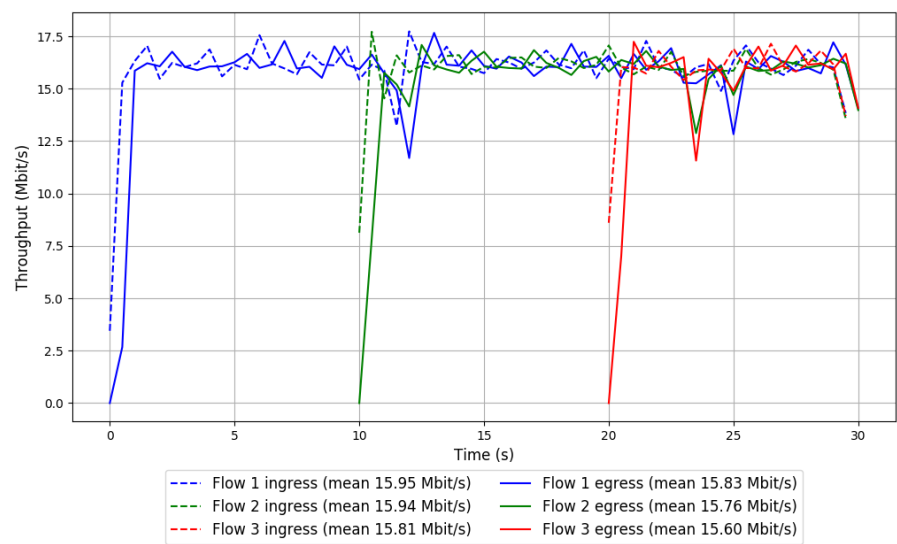


Run 6: Statistics of Sprout

Start at: 2018-05-22 04:53:04  
End at: 2018-05-22 04:53:34  
Local clock offset: 2.315 ms  
Remote clock offset: -10.588 ms

# Below is generated by plot.py at 2018-05-22 06:36:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 31.49 Mbit/s  
95th percentile per-packet one-way delay: 20.540 ms  
Loss rate: 0.97%  
-- Flow 1:  
Average throughput: 15.83 Mbit/s  
95th percentile per-packet one-way delay: 19.642 ms  
Loss rate: 0.75%  
-- Flow 2:  
Average throughput: 15.76 Mbit/s  
95th percentile per-packet one-way delay: 21.520 ms  
Loss rate: 1.13%  
-- Flow 3:  
Average throughput: 15.60 Mbit/s  
95th percentile per-packet one-way delay: 20.996 ms  
Loss rate: 1.33%

Run 6: Report of Sprout — Data Link

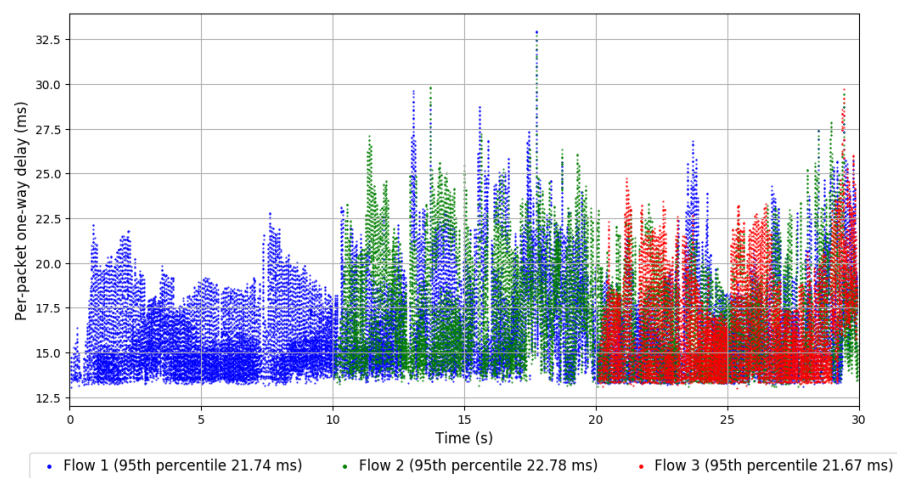
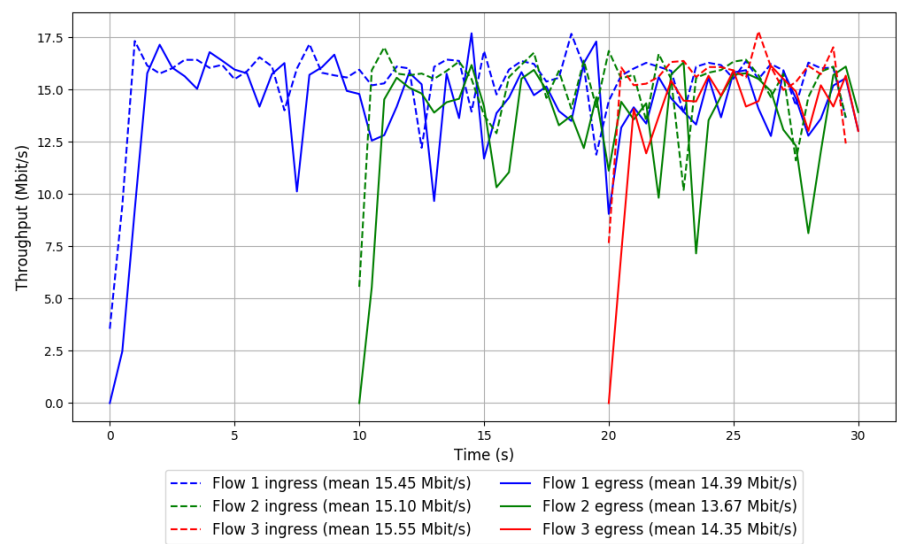


Run 7: Statistics of Sprout

Start at: 2018-05-22 05:11:46  
End at: 2018-05-22 05:12:16  
Local clock offset: 2.978 ms  
Remote clock offset: -12.221 ms

# Below is generated by plot.py at 2018-05-22 06:36:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 28.22 Mbit/s  
95th percentile per-packet one-way delay: 22.169 ms  
Loss rate: 7.88%  
-- Flow 1:  
Average throughput: 14.39 Mbit/s  
95th percentile per-packet one-way delay: 21.740 ms  
Loss rate: 6.90%  
-- Flow 2:  
Average throughput: 13.67 Mbit/s  
95th percentile per-packet one-way delay: 22.777 ms  
Loss rate: 9.49%  
-- Flow 3:  
Average throughput: 14.35 Mbit/s  
95th percentile per-packet one-way delay: 21.674 ms  
Loss rate: 7.66%

Run 7: Report of Sprout — Data Link

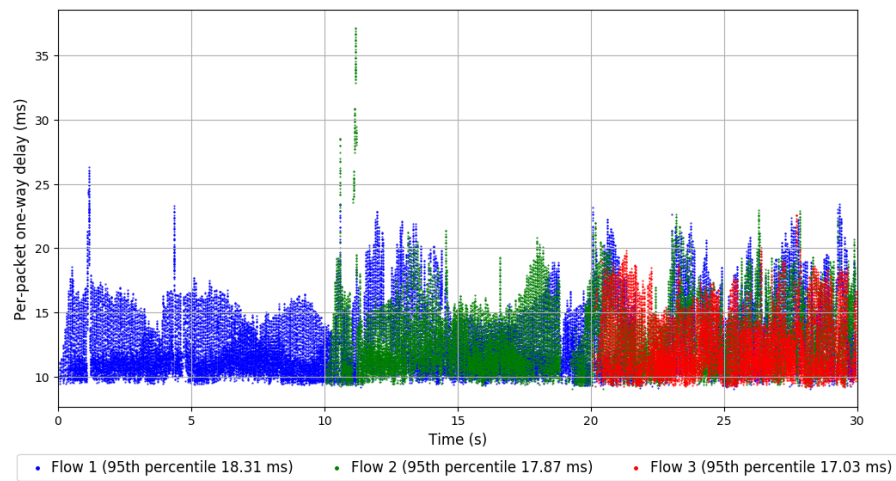
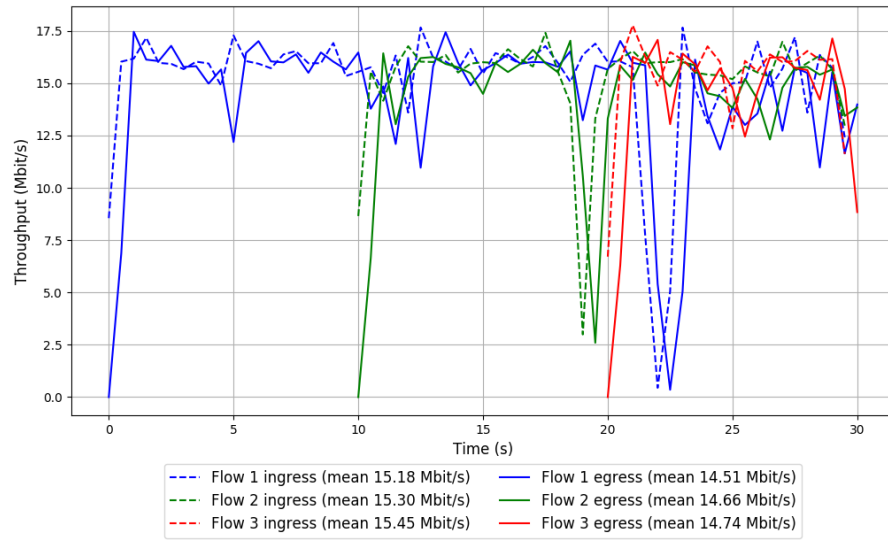


Run 8: Statistics of Sprout

Start at: 2018-05-22 05:30:38  
End at: 2018-05-22 05:31:08  
Local clock offset: 2.836 ms  
Remote clock offset: -5.901 ms

# Below is generated by plot.py at 2018-05-22 06:36:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 29.12 Mbit/s  
95th percentile per-packet one-way delay: 17.917 ms  
Loss rate: 4.36%  
-- Flow 1:  
Average throughput: 14.51 Mbit/s  
95th percentile per-packet one-way delay: 18.311 ms  
Loss rate: 4.40%  
-- Flow 2:  
Average throughput: 14.66 Mbit/s  
95th percentile per-packet one-way delay: 17.869 ms  
Loss rate: 4.19%  
-- Flow 3:  
Average throughput: 14.74 Mbit/s  
95th percentile per-packet one-way delay: 17.029 ms  
Loss rate: 4.61%

# Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-05-22 05:49:36

End at: 2018-05-22 05:50:06

Local clock offset: 1.104 ms

Remote clock offset: 1.155 ms

# Below is generated by plot.py at 2018-05-22 06:36:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 30.98 Mbit/s

95th percentile per-packet one-way delay: 20.366 ms

Loss rate: 2.09%

-- Flow 1:

Average throughput: 15.70 Mbit/s

95th percentile per-packet one-way delay: 20.379 ms

Loss rate: 1.87%

-- Flow 2:

Average throughput: 15.45 Mbit/s

95th percentile per-packet one-way delay: 19.658 ms

Loss rate: 2.37%

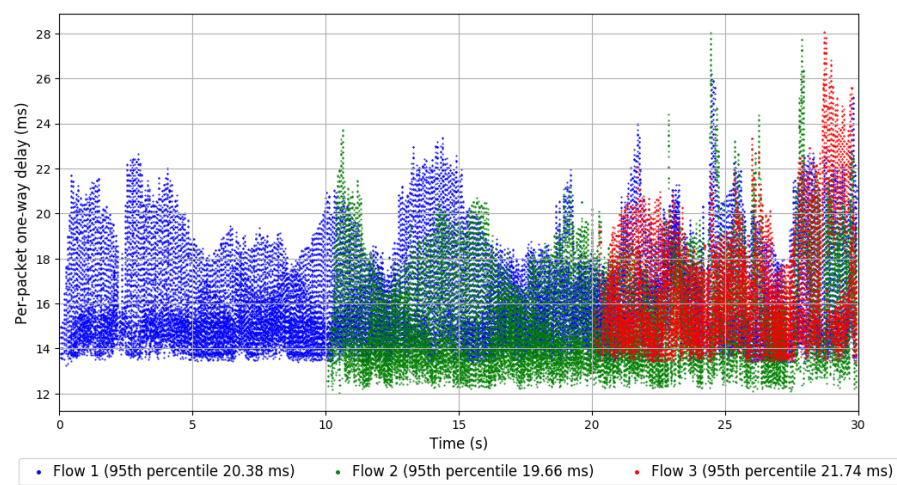
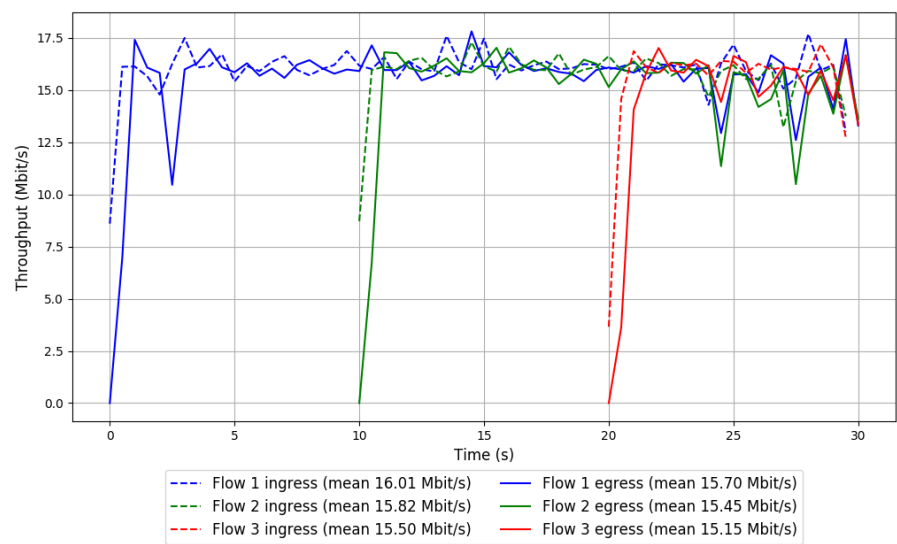
-- Flow 3:

Average throughput: 15.15 Mbit/s

95th percentile per-packet one-way delay: 21.738 ms

Loss rate: 2.23%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-05-22 06:08:06

End at: 2018-05-22 06:08:36

Local clock offset: -3.812 ms

Remote clock offset: 1.035 ms

# Below is generated by plot.py at 2018-05-22 06:37:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 46.60 Mbit/s

95th percentile per-packet one-way delay: 22.118 ms

Loss rate: 1.90%

-- Flow 1:

Average throughput: 23.46 Mbit/s

95th percentile per-packet one-way delay: 22.175 ms

Loss rate: 1.62%

-- Flow 2:

Average throughput: 23.52 Mbit/s

95th percentile per-packet one-way delay: 21.205 ms

Loss rate: 1.77%

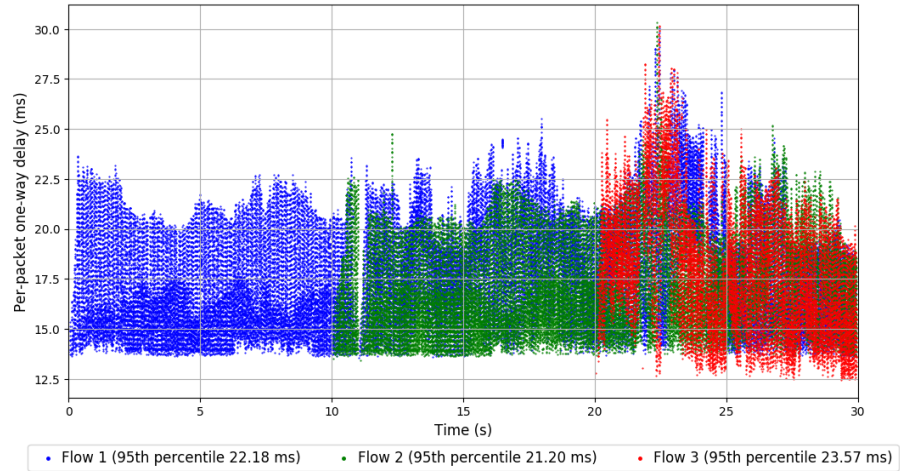
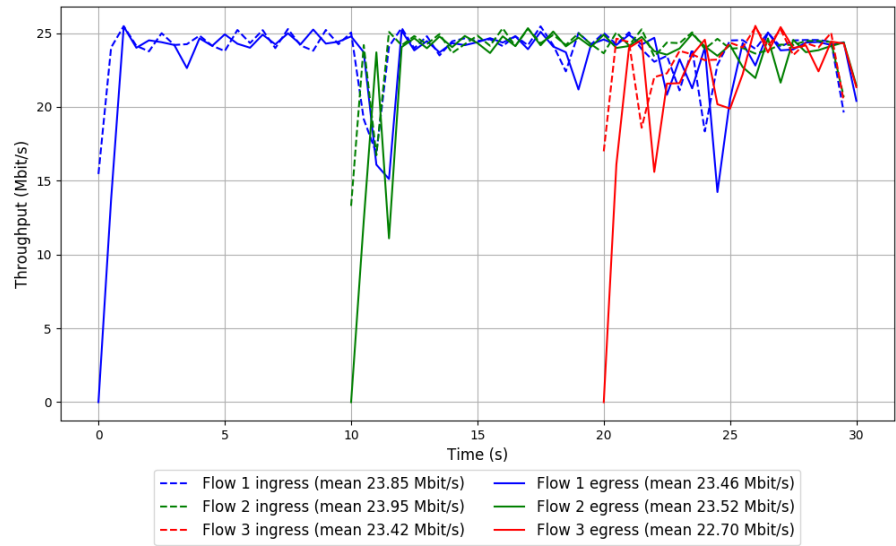
-- Flow 3:

Average throughput: 22.70 Mbit/s

95th percentile per-packet one-way delay: 23.570 ms

Loss rate: 3.02%

# Run 10: Report of Sprout — Data Link

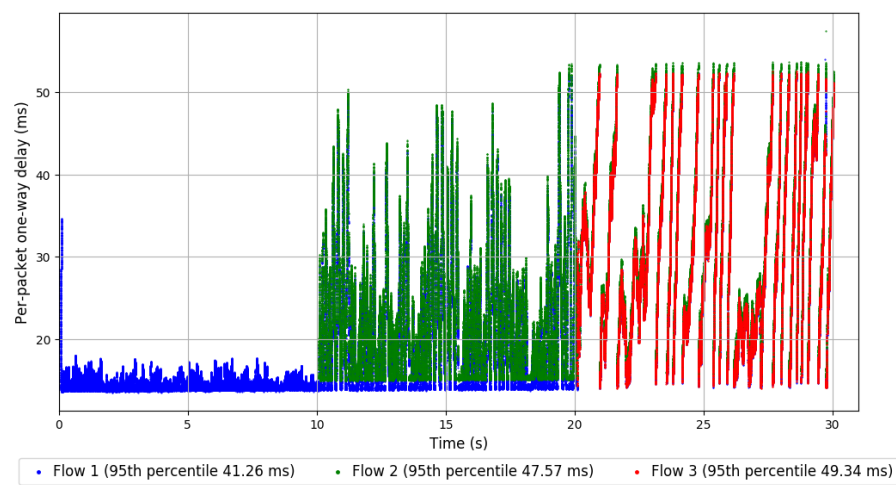
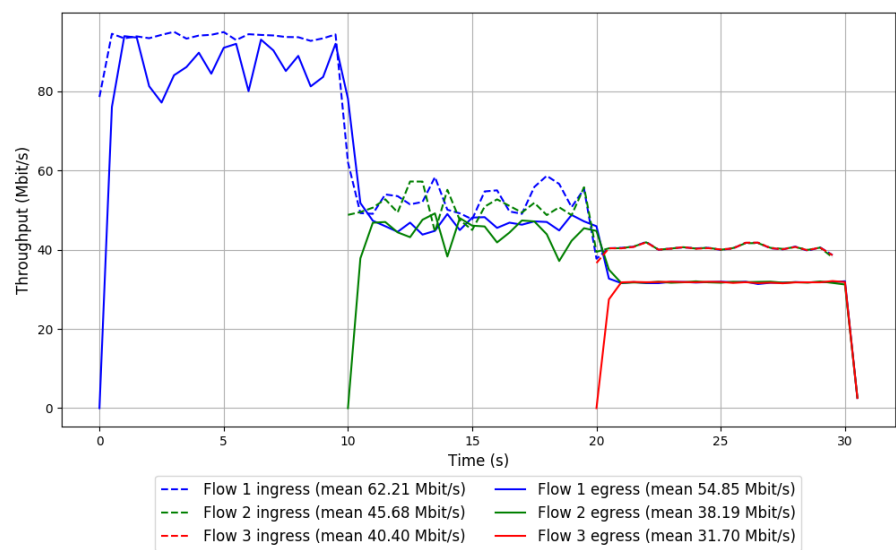


Run 1: Statistics of TaoVA-100x

Start at: 2018-05-22 03:28:08  
End at: 2018-05-22 03:28:38  
Local clock offset: -7.004 ms  
Remote clock offset: -2.998 ms

# Below is generated by plot.py at 2018-05-22 06:38:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.86 Mbit/s  
95th percentile per-packet one-way delay: 45.712 ms  
Loss rate: 14.23%  
-- Flow 1:  
Average throughput: 54.85 Mbit/s  
95th percentile per-packet one-way delay: 41.261 ms  
Loss rate: 11.71%  
-- Flow 2:  
Average throughput: 38.19 Mbit/s  
95th percentile per-packet one-way delay: 47.566 ms  
Loss rate: 16.23%  
-- Flow 3:  
Average throughput: 31.70 Mbit/s  
95th percentile per-packet one-way delay: 49.336 ms  
Loss rate: 21.31%

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

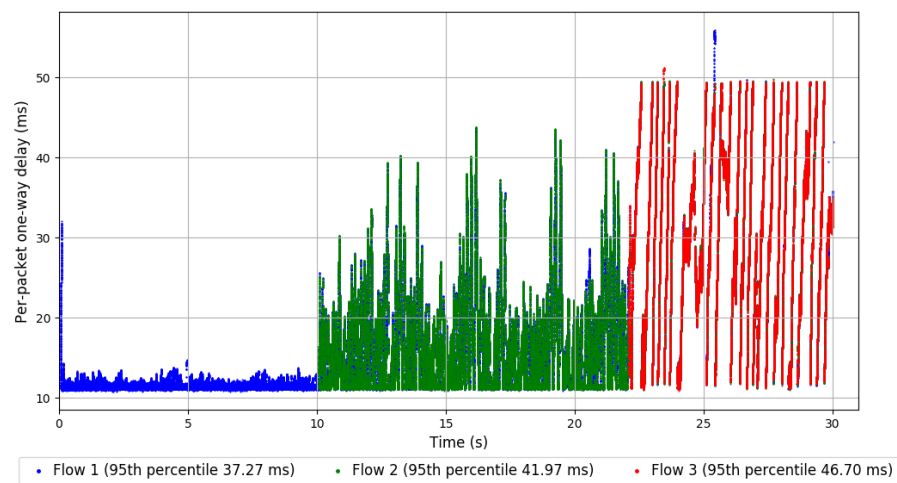
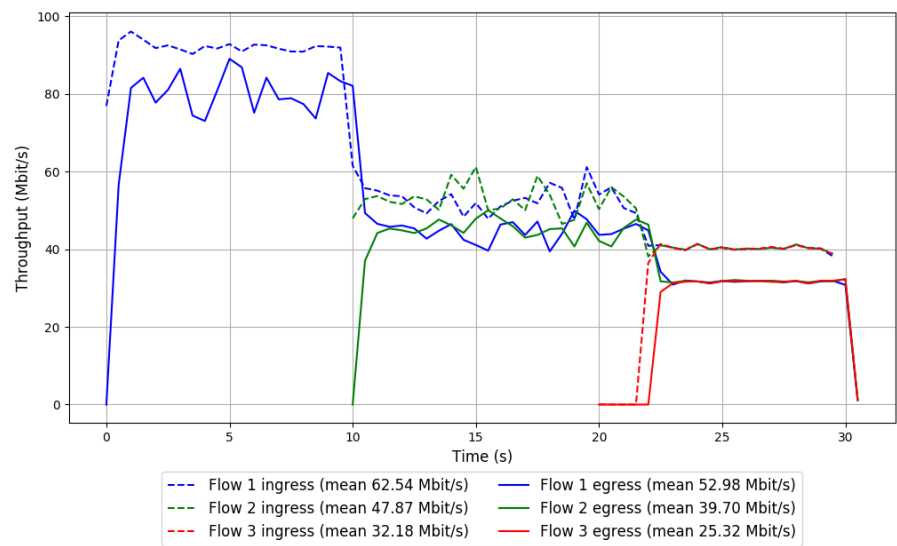


Run 2: Statistics of TaoVA-100x

Start at: 2018-05-22 03:46:34  
End at: 2018-05-22 03:47:04  
Local clock offset: 4.104 ms  
Remote clock offset: -3.634 ms

# Below is generated by plot.py at 2018-05-22 06:38:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.86 Mbit/s  
95th percentile per-packet one-way delay: 41.230 ms  
Loss rate: 16.33%  
-- Flow 1:  
Average throughput: 52.98 Mbit/s  
95th percentile per-packet one-way delay: 37.272 ms  
Loss rate: 15.19%  
-- Flow 2:  
Average throughput: 39.70 Mbit/s  
95th percentile per-packet one-way delay: 41.974 ms  
Loss rate: 16.96%  
-- Flow 3:  
Average throughput: 25.32 Mbit/s  
95th percentile per-packet one-way delay: 46.702 ms  
Loss rate: 21.14%

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

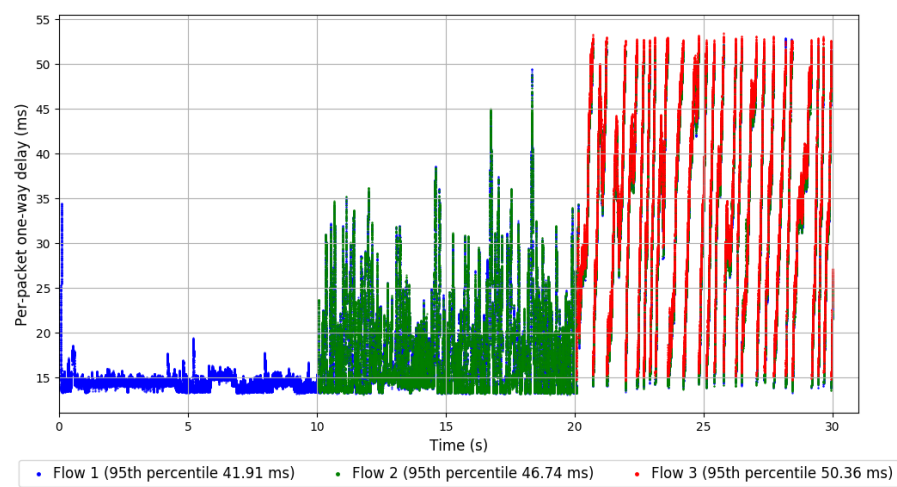
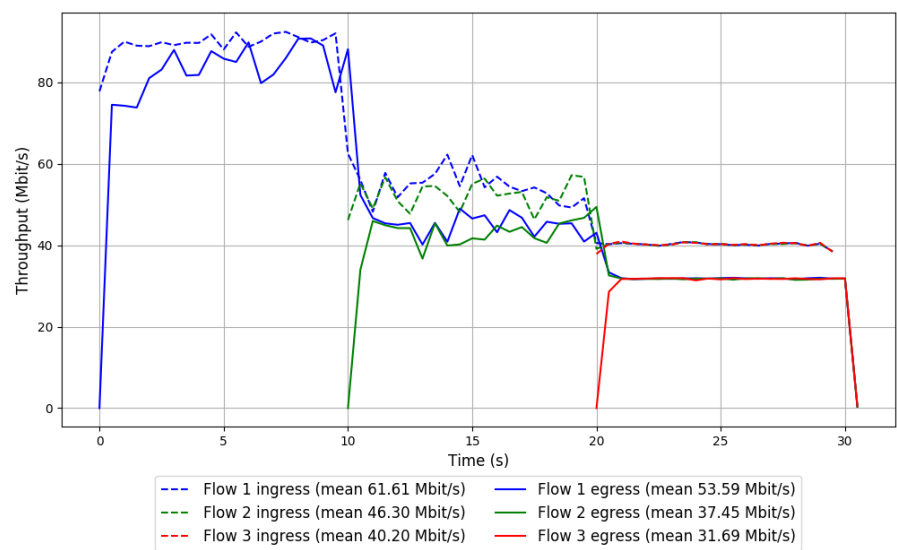


Run 3: Statistics of TaoVA-100x

Start at: 2018-05-22 04:04:49  
End at: 2018-05-22 04:05:19  
Local clock offset: -2.077 ms  
Remote clock offset: -4.754 ms

# Below is generated by plot.py at 2018-05-22 06:38:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.10 Mbit/s  
95th percentile per-packet one-way delay: 46.328 ms  
Loss rate: 15.79%  
-- Flow 1:  
Average throughput: 53.59 Mbit/s  
95th percentile per-packet one-way delay: 41.914 ms  
Loss rate: 12.98%  
-- Flow 2:  
Average throughput: 37.45 Mbit/s  
95th percentile per-packet one-way delay: 46.743 ms  
Loss rate: 19.07%  
-- Flow 3:  
Average throughput: 31.69 Mbit/s  
95th percentile per-packet one-way delay: 50.364 ms  
Loss rate: 21.13%

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

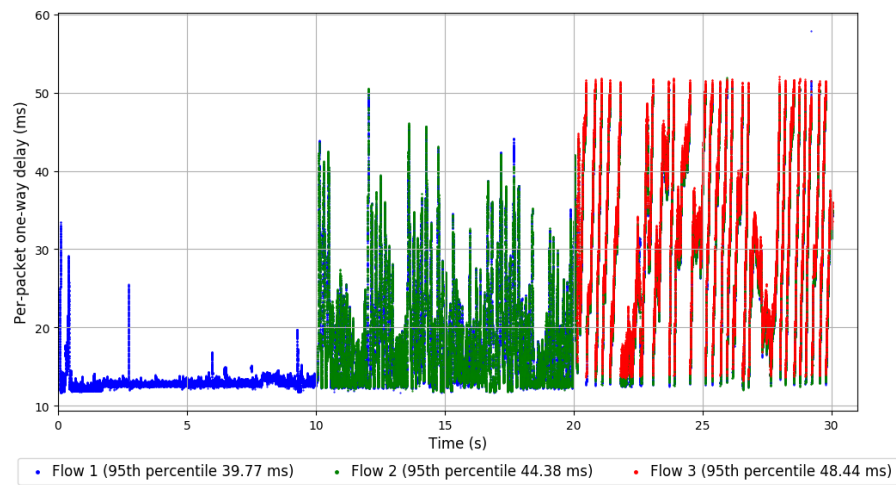
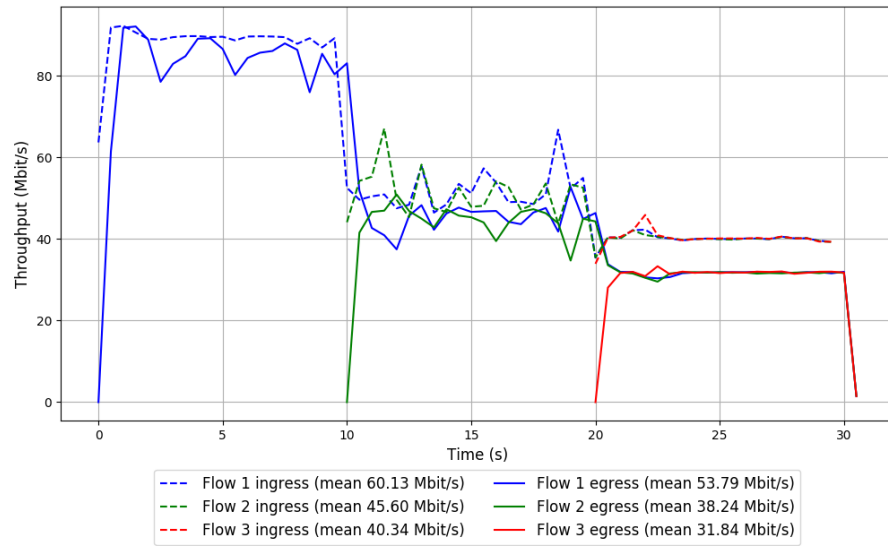


Run 4: Statistics of TaoVA-100x

Start at: 2018-05-22 04:23:16  
End at: 2018-05-22 04:23:47  
Local clock offset: -5.784 ms  
Remote clock offset: -9.275 ms

# Below is generated by plot.py at 2018-05-22 06:38:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.85 Mbit/s  
95th percentile per-packet one-way delay: 43.935 ms  
Loss rate: 13.48%  
-- Flow 1:  
Average throughput: 53.79 Mbit/s  
95th percentile per-packet one-way delay: 39.768 ms  
Loss rate: 10.47%  
-- Flow 2:  
Average throughput: 38.24 Mbit/s  
95th percentile per-packet one-way delay: 44.378 ms  
Loss rate: 16.07%  
-- Flow 3:  
Average throughput: 31.84 Mbit/s  
95th percentile per-packet one-way delay: 48.439 ms  
Loss rate: 21.09%

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

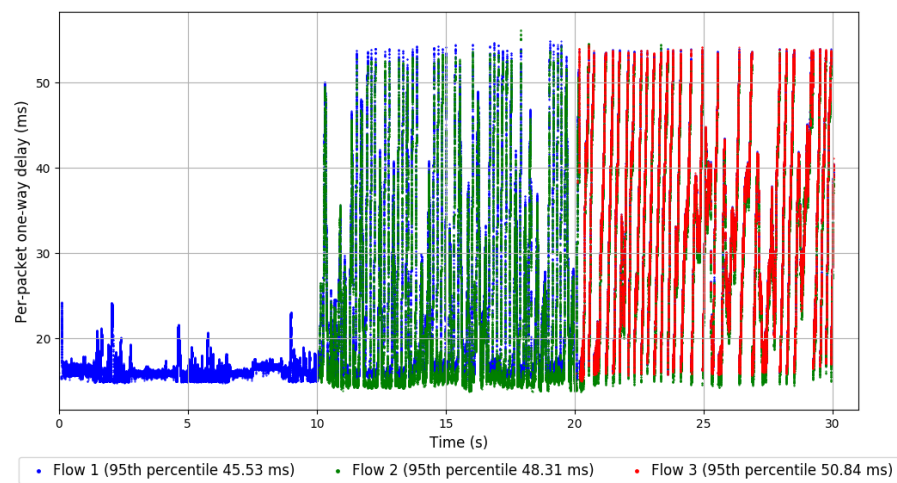
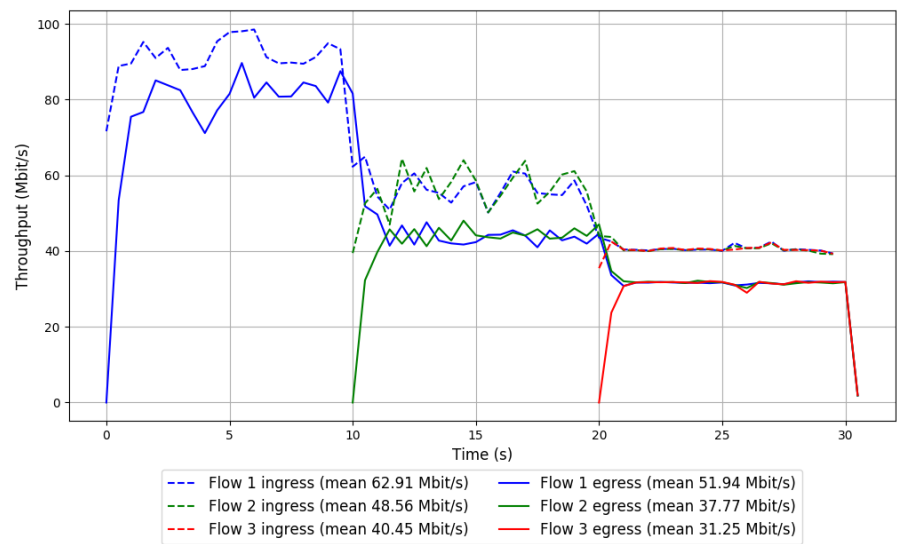


Run 5: Statistics of TaoVA-100x

Start at: 2018-05-22 04:41:43  
End at: 2018-05-22 04:42:13  
Local clock offset: -0.869 ms  
Remote clock offset: -9.962 ms

# Below is generated by plot.py at 2018-05-22 06:38:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.51 Mbit/s  
95th percentile per-packet one-way delay: 47.694 ms  
Loss rate: 19.43%  
-- Flow 1:  
Average throughput: 51.94 Mbit/s  
95th percentile per-packet one-way delay: 45.526 ms  
Loss rate: 17.38%  
-- Flow 2:  
Average throughput: 37.77 Mbit/s  
95th percentile per-packet one-way delay: 48.310 ms  
Loss rate: 22.13%  
-- Flow 3:  
Average throughput: 31.25 Mbit/s  
95th percentile per-packet one-way delay: 50.844 ms  
Loss rate: 22.56%

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

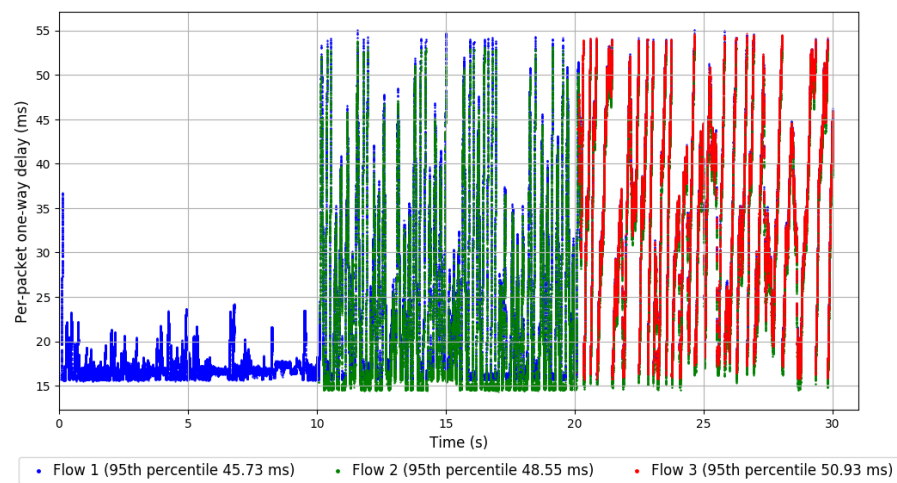
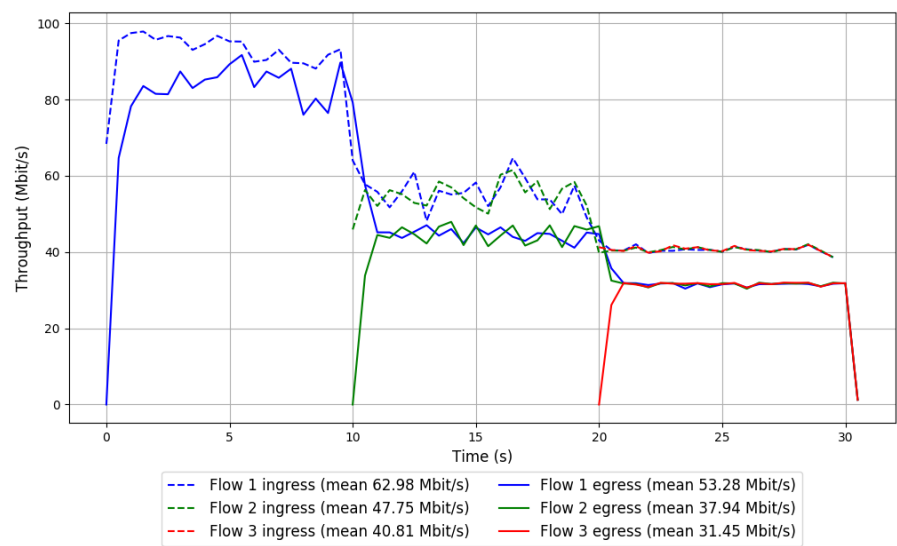


Run 6: Statistics of TaoVA-100x

Start at: 2018-05-22 05:00:11  
End at: 2018-05-22 05:00:41  
Local clock offset: 0.02 ms  
Remote clock offset: -11.527 ms

# Below is generated by plot.py at 2018-05-22 06:38:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.02 Mbit/s  
95th percentile per-packet one-way delay: 48.314 ms  
Loss rate: 17.78%  
-- Flow 1:  
Average throughput: 53.28 Mbit/s  
95th percentile per-packet one-way delay: 45.735 ms  
Loss rate: 15.35%  
-- Flow 2:  
Average throughput: 37.94 Mbit/s  
95th percentile per-packet one-way delay: 48.548 ms  
Loss rate: 20.45%  
-- Flow 3:  
Average throughput: 31.45 Mbit/s  
95th percentile per-packet one-way delay: 50.928 ms  
Loss rate: 22.77%

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

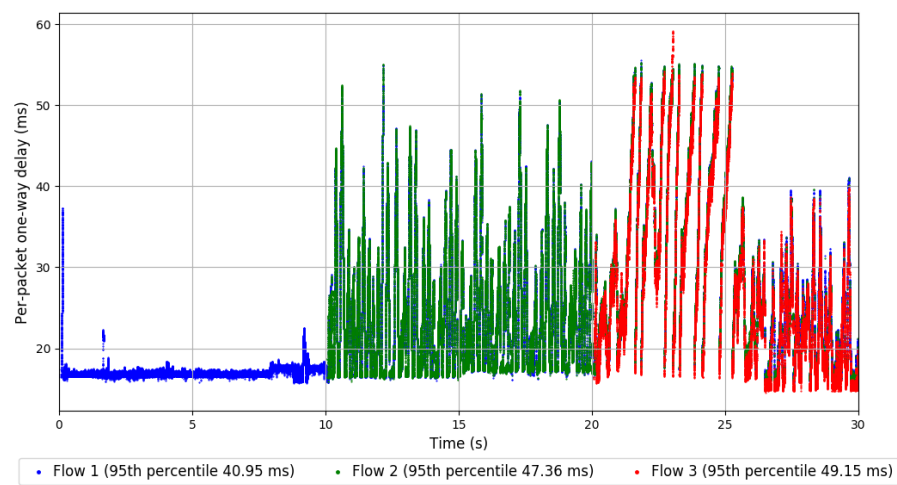
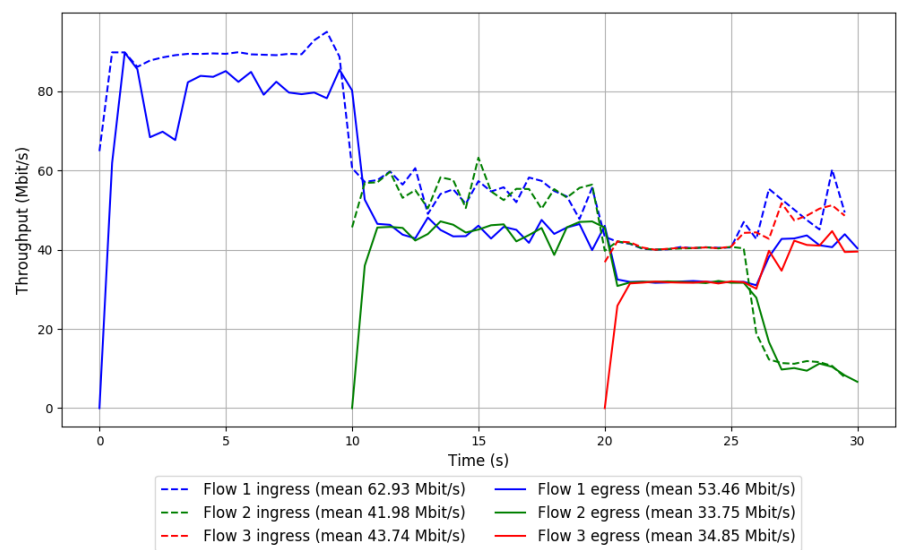


Run 7: Statistics of TaoVA-100x

Start at: 2018-05-22 05:18:55  
End at: 2018-05-22 05:19:25  
Local clock offset: 0.543 ms  
Remote clock offset: -12.929 ms

# Below is generated by plot.py at 2018-05-22 06:39:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.55 Mbit/s  
95th percentile per-packet one-way delay: 45.012 ms  
Loss rate: 16.98%  
-- Flow 1:  
Average throughput: 53.46 Mbit/s  
95th percentile per-packet one-way delay: 40.951 ms  
Loss rate: 15.05%  
-- Flow 2:  
Average throughput: 33.75 Mbit/s  
95th percentile per-packet one-way delay: 47.361 ms  
Loss rate: 19.60%  
-- Flow 3:  
Average throughput: 34.85 Mbit/s  
95th percentile per-packet one-way delay: 49.154 ms  
Loss rate: 20.32%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-05-22 05:37:57

End at: 2018-05-22 05:38:27

Local clock offset: 2.642 ms

Remote clock offset: -1.19 ms

# Below is generated by plot.py at 2018-05-22 06:39:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.49 Mbit/s

95th percentile per-packet one-way delay: 44.094 ms

Loss rate: 17.20%

-- Flow 1:

Average throughput: 54.16 Mbit/s

95th percentile per-packet one-way delay: 40.345 ms

Loss rate: 14.29%

-- Flow 2:

Average throughput: 39.28 Mbit/s

95th percentile per-packet one-way delay: 45.574 ms

Loss rate: 21.21%

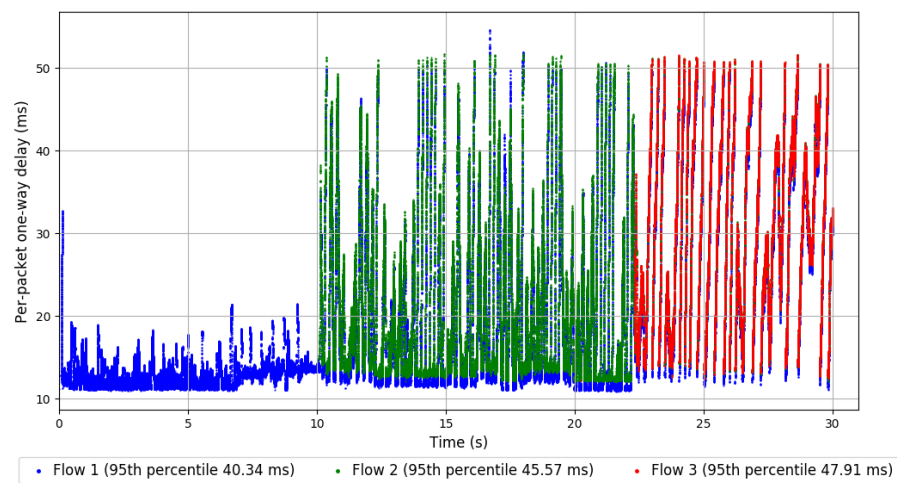
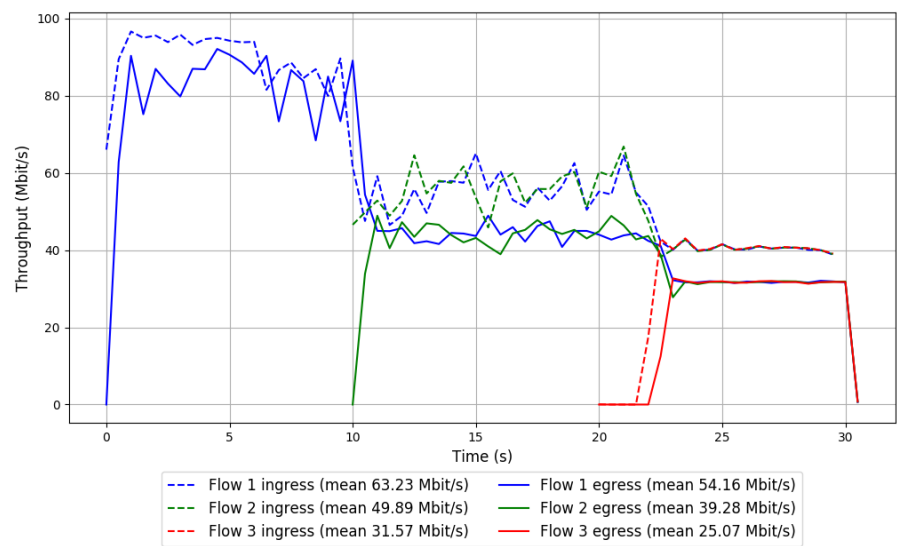
-- Flow 3:

Average throughput: 25.07 Mbit/s

95th percentile per-packet one-way delay: 47.915 ms

Loss rate: 22.03%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-05-22 05:56:41

End at: 2018-05-22 05:57:11

Local clock offset: 2.453 ms

Remote clock offset: 2.623 ms

# Below is generated by plot.py at 2018-05-22 06:41:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.00 Mbit/s

95th percentile per-packet one-way delay: 42.841 ms

Loss rate: 15.37%

-- Flow 1:

Average throughput: 54.03 Mbit/s

95th percentile per-packet one-way delay: 38.047 ms

Loss rate: 12.82%

-- Flow 2:

Average throughput: 33.66 Mbit/s

95th percentile per-packet one-way delay: 44.516 ms

Loss rate: 18.15%

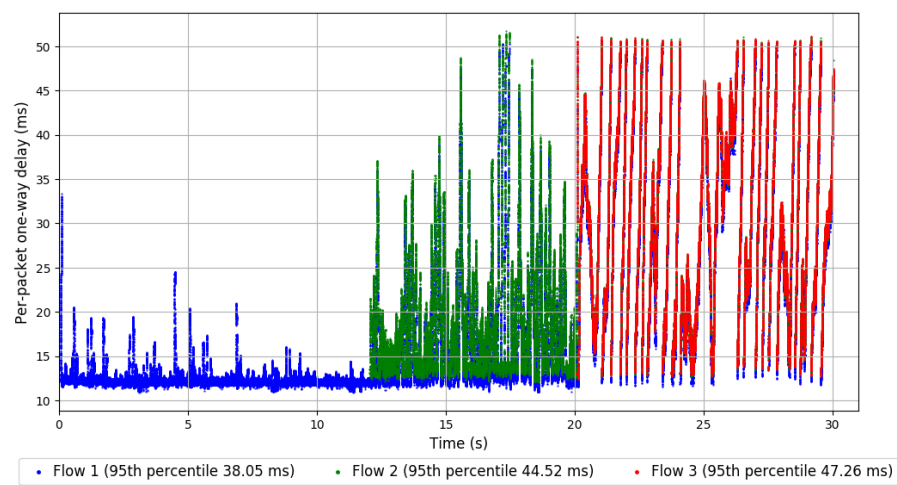
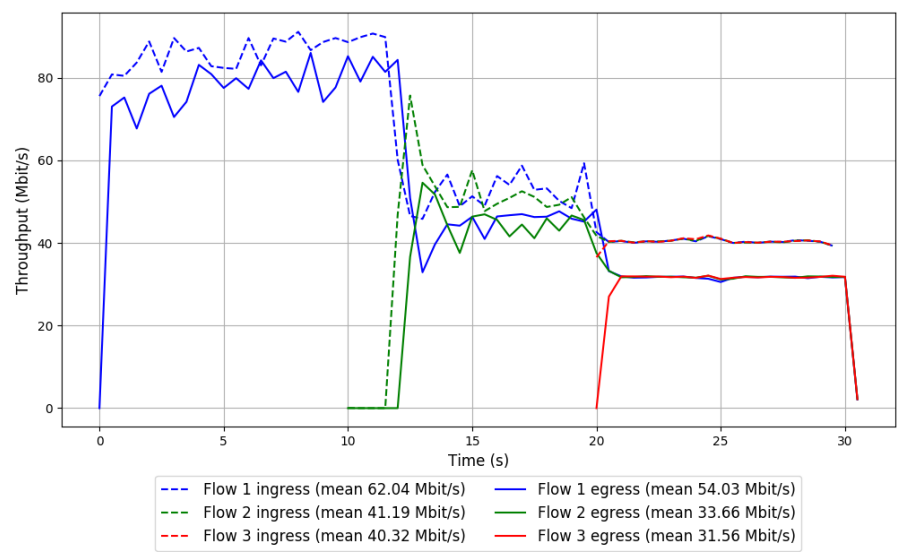
-- Flow 3:

Average throughput: 31.56 Mbit/s

95th percentile per-packet one-way delay: 47.260 ms

Loss rate: 21.46%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-05-22 06:15:06

End at: 2018-05-22 06:15:36

Local clock offset: 0.403 ms

Remote clock offset: 5.998 ms

# Below is generated by plot.py at 2018-05-22 06:41:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.65 Mbit/s

95th percentile per-packet one-way delay: 43.514 ms

Loss rate: 19.47%

-- Flow 1:

Average throughput: 52.91 Mbit/s

95th percentile per-packet one-way delay: 38.649 ms

Loss rate: 18.60%

-- Flow 2:

Average throughput: 35.21 Mbit/s

95th percentile per-packet one-way delay: 44.515 ms

Loss rate: 20.55%

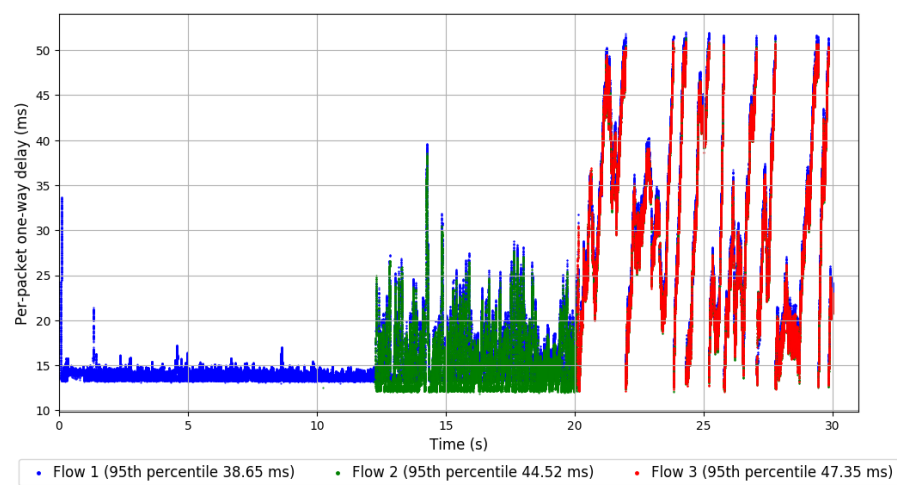
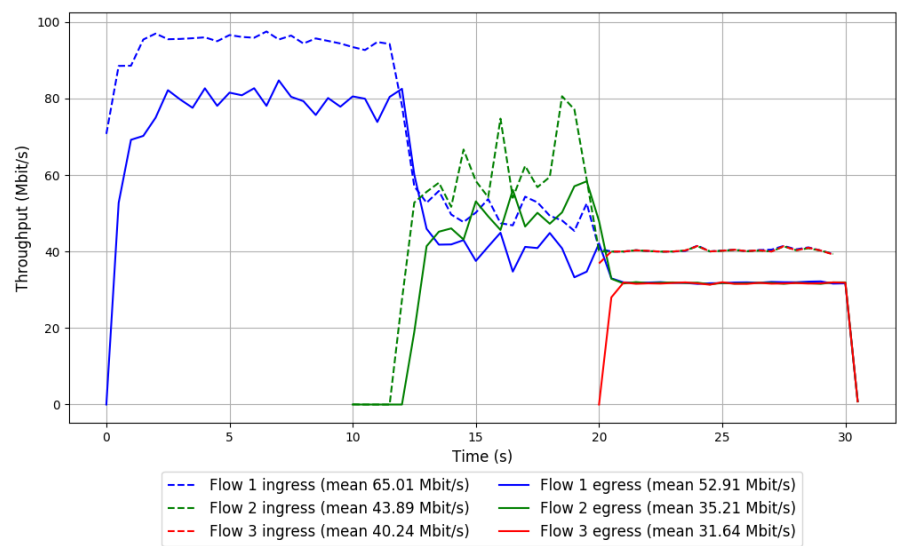
-- Flow 3:

Average throughput: 31.64 Mbit/s

95th percentile per-packet one-way delay: 47.350 ms

Loss rate: 21.32%

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

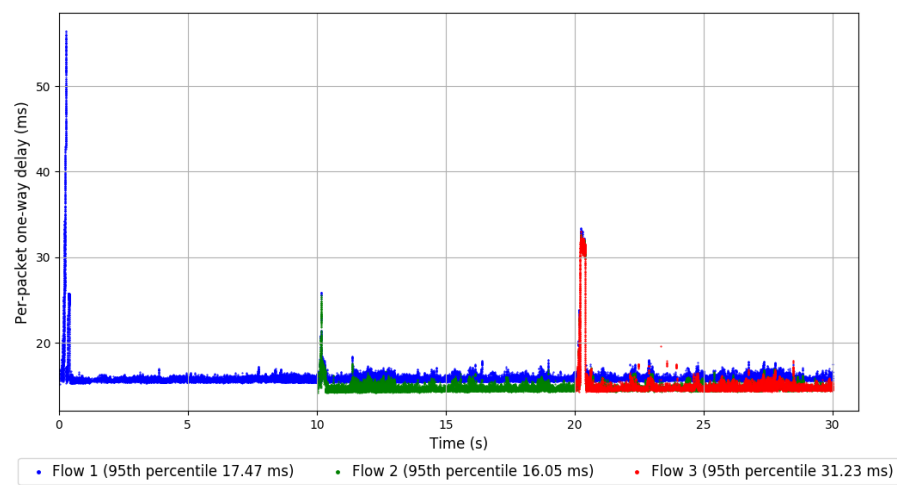
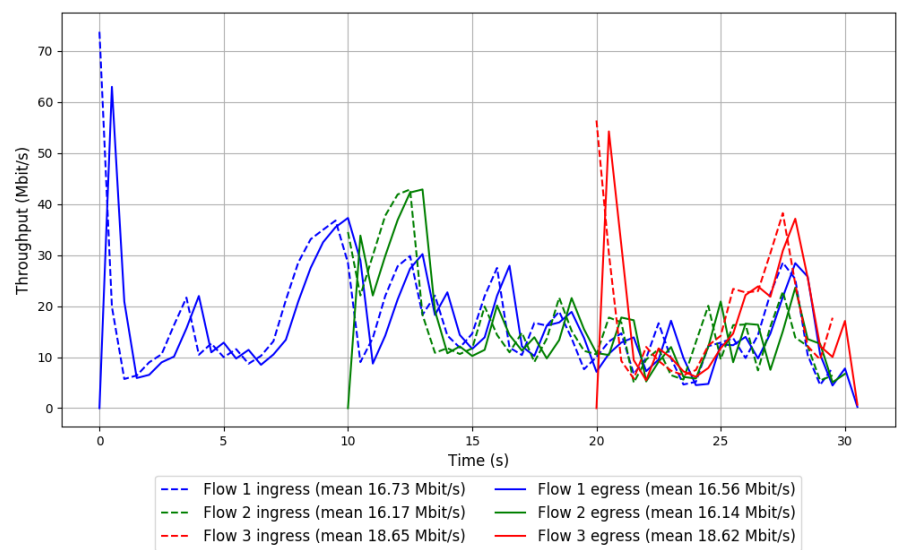


Run 1: Statistics of TCP Vegas

Start at: 2018-05-22 03:35:17  
End at: 2018-05-22 03:35:47  
Local clock offset: -2.707 ms  
Remote clock offset: -2.927 ms

# Below is generated by plot.py at 2018-05-22 06:41:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 33.50 Mbit/s  
95th percentile per-packet one-way delay: 17.448 ms  
Loss rate: 0.60%  
-- Flow 1:  
Average throughput: 16.56 Mbit/s  
95th percentile per-packet one-way delay: 17.472 ms  
Loss rate: 1.06%  
-- Flow 2:  
Average throughput: 16.14 Mbit/s  
95th percentile per-packet one-way delay: 16.047 ms  
Loss rate: 0.15%  
-- Flow 3:  
Average throughput: 18.62 Mbit/s  
95th percentile per-packet one-way delay: 31.235 ms  
Loss rate: 0.14%

Run 1: Report of TCP Vegas — Data Link

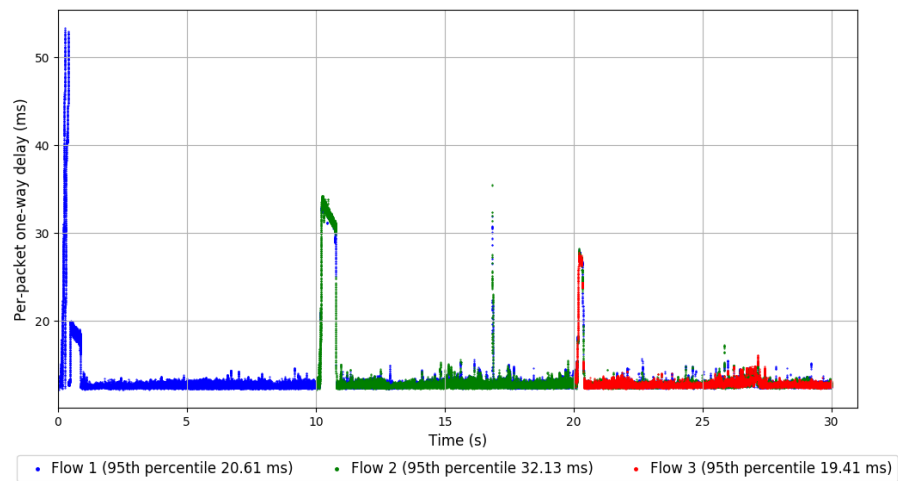
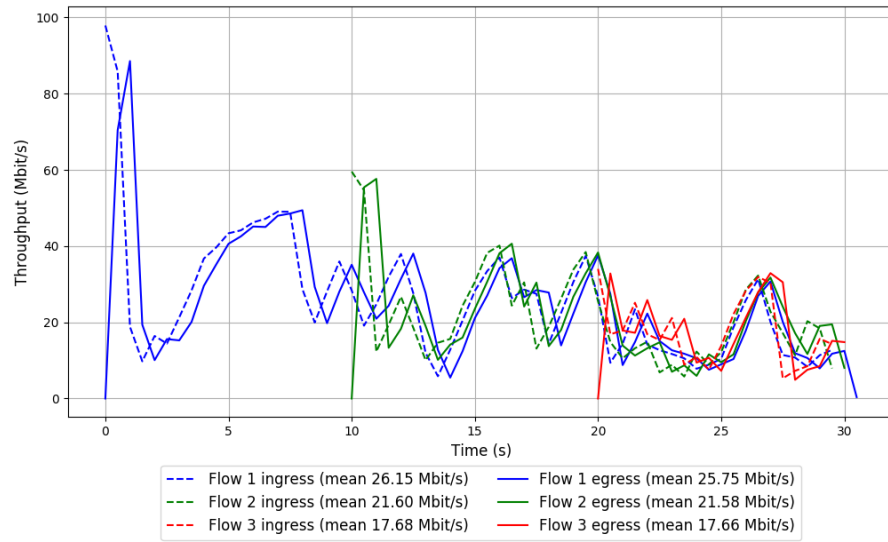


Run 2: Statistics of TCP Vegas

Start at: 2018-05-22 03:53:31  
End at: 2018-05-22 03:54:01  
Local clock offset: 4.521 ms  
Remote clock offset: -3.455 ms

# Below is generated by plot.py at 2018-05-22 06:41:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 45.98 Mbit/s  
95th percentile per-packet one-way delay: 29.883 ms  
Loss rate: 0.93%  
-- Flow 1:  
Average throughput: 25.75 Mbit/s  
95th percentile per-packet one-way delay: 20.613 ms  
Loss rate: 1.56%  
-- Flow 2:  
Average throughput: 21.58 Mbit/s  
95th percentile per-packet one-way delay: 32.130 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 17.66 Mbit/s  
95th percentile per-packet one-way delay: 19.408 ms  
Loss rate: 0.13%

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

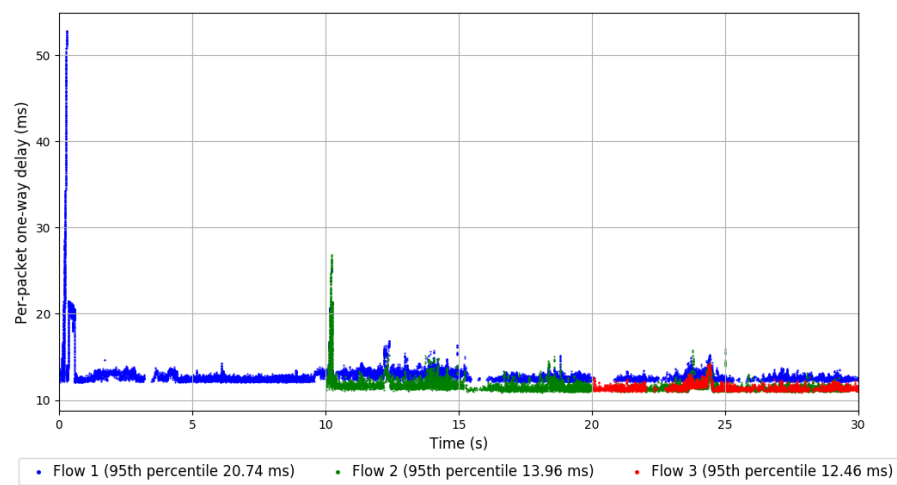
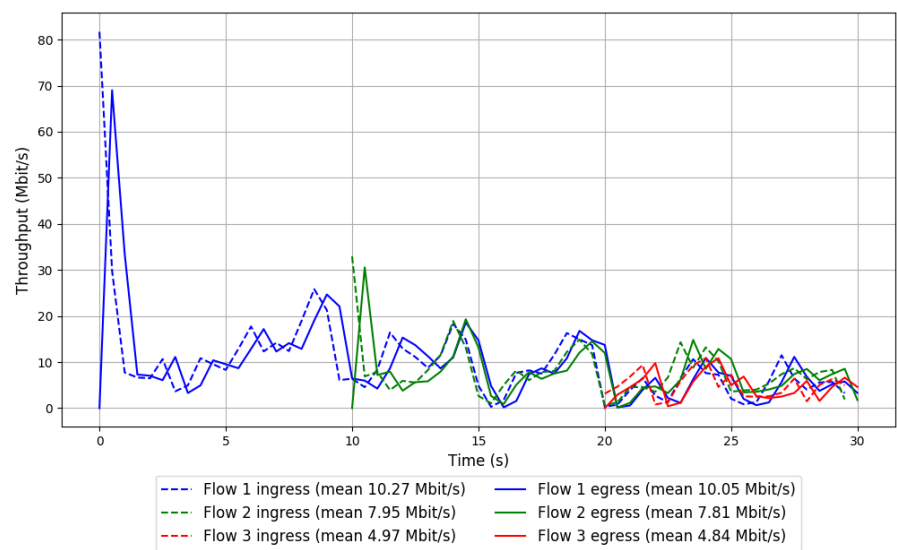


Run 3: Statistics of TCP Vegas

Start at: 2018-05-22 04:11:57  
End at: 2018-05-22 04:12:27  
Local clock offset: -3.928 ms  
Remote clock offset: -7.553 ms

# Below is generated by plot.py at 2018-05-22 06:41:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 16.85 Mbit/s  
95th percentile per-packet one-way delay: 20.235 ms  
Loss rate: 2.11%  
-- Flow 1:  
Average throughput: 10.05 Mbit/s  
95th percentile per-packet one-way delay: 20.736 ms  
Loss rate: 2.17%  
-- Flow 2:  
Average throughput: 7.81 Mbit/s  
95th percentile per-packet one-way delay: 13.962 ms  
Loss rate: 1.81%  
-- Flow 3:  
Average throughput: 4.84 Mbit/s  
95th percentile per-packet one-way delay: 12.458 ms  
Loss rate: 2.64%

Run 3: Report of TCP Vegas — Data Link

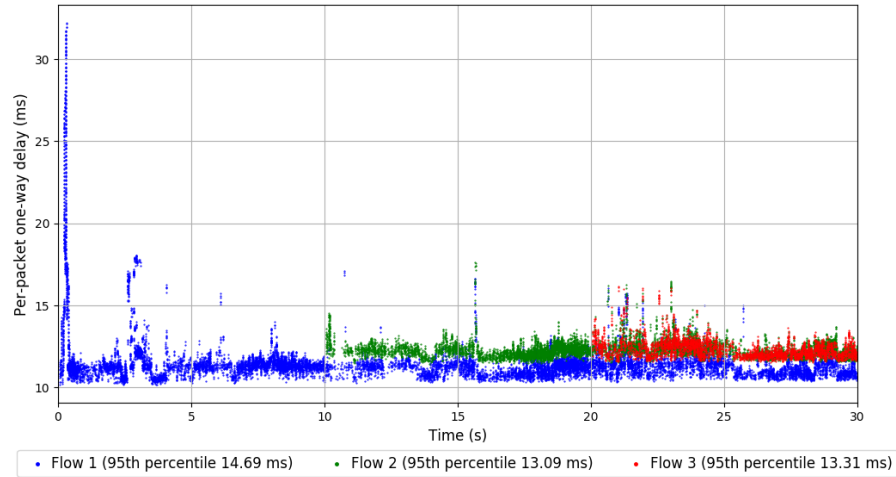
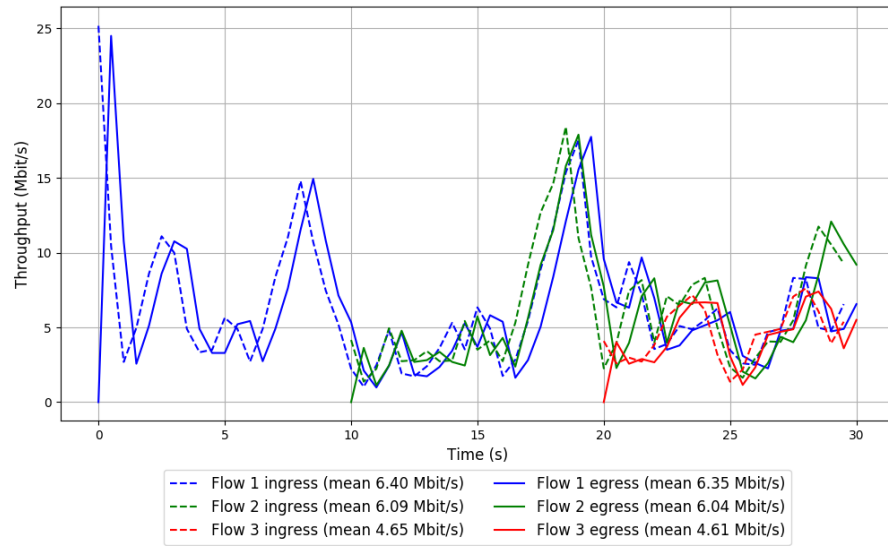


Run 4: Statistics of TCP Vegas

Start at: 2018-05-22 04:30:17  
End at: 2018-05-22 04:30:47  
Local clock offset: -2.322 ms  
Remote clock offset: -10.492 ms

# Below is generated by plot.py at 2018-05-22 06:41:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 11.90 Mbit/s  
95th percentile per-packet one-way delay: 13.357 ms  
Loss rate: 0.82%  
-- Flow 1:  
Average throughput: 6.35 Mbit/s  
95th percentile per-packet one-way delay: 14.687 ms  
Loss rate: 0.71%  
-- Flow 2:  
Average throughput: 6.04 Mbit/s  
95th percentile per-packet one-way delay: 13.093 ms  
Loss rate: 1.00%  
-- Flow 3:  
Average throughput: 4.61 Mbit/s  
95th percentile per-packet one-way delay: 13.315 ms  
Loss rate: 0.80%

# Run 4: Report of TCP Vegas — Data Link

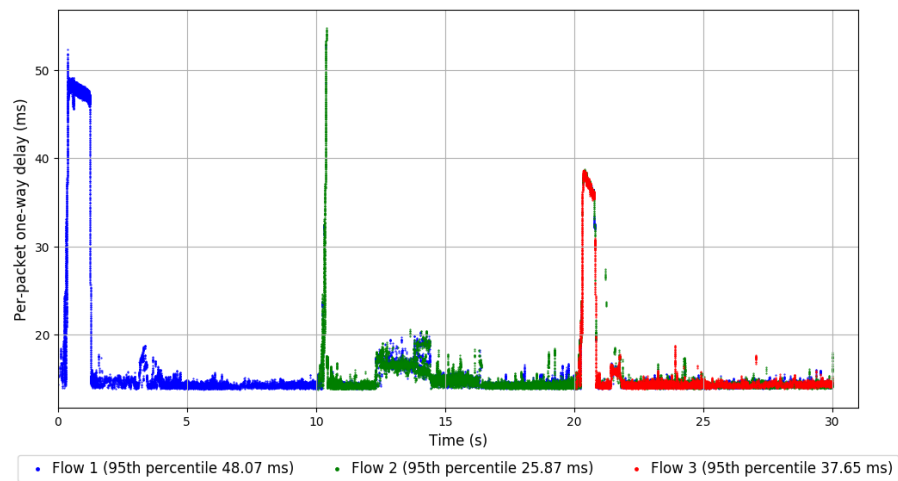
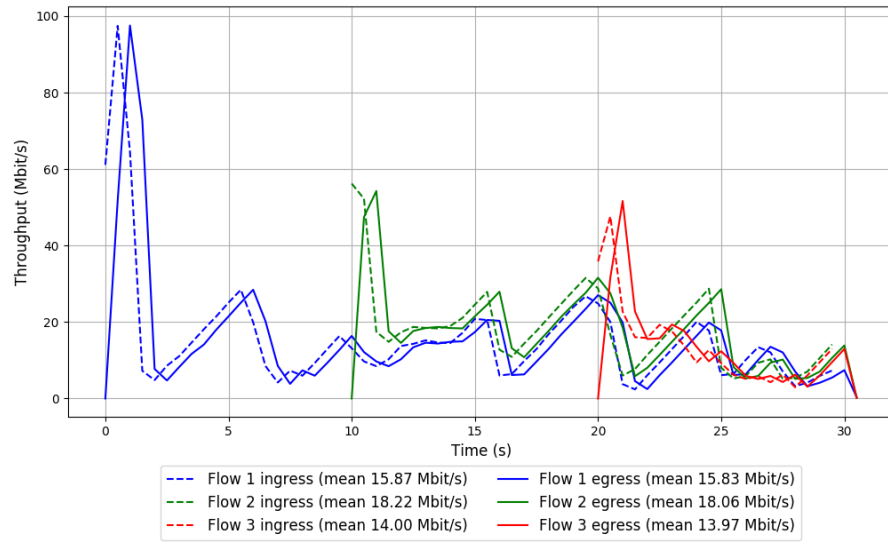


Run 5: Statistics of TCP Vegas

Start at: 2018-05-22 04:48:40  
End at: 2018-05-22 04:49:10  
Local clock offset: -0.124 ms  
Remote clock offset: -10.538 ms

# Below is generated by plot.py at 2018-05-22 06:41:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 32.50 Mbit/s  
95th percentile per-packet one-way delay: 47.601 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 15.83 Mbit/s  
95th percentile per-packet one-way delay: 48.074 ms  
Loss rate: 0.26%  
-- Flow 2:  
Average throughput: 18.06 Mbit/s  
95th percentile per-packet one-way delay: 25.867 ms  
Loss rate: 0.88%  
-- Flow 3:  
Average throughput: 13.97 Mbit/s  
95th percentile per-packet one-way delay: 37.652 ms  
Loss rate: 0.21%

# Run 5: Report of TCP Vegas — Data Link

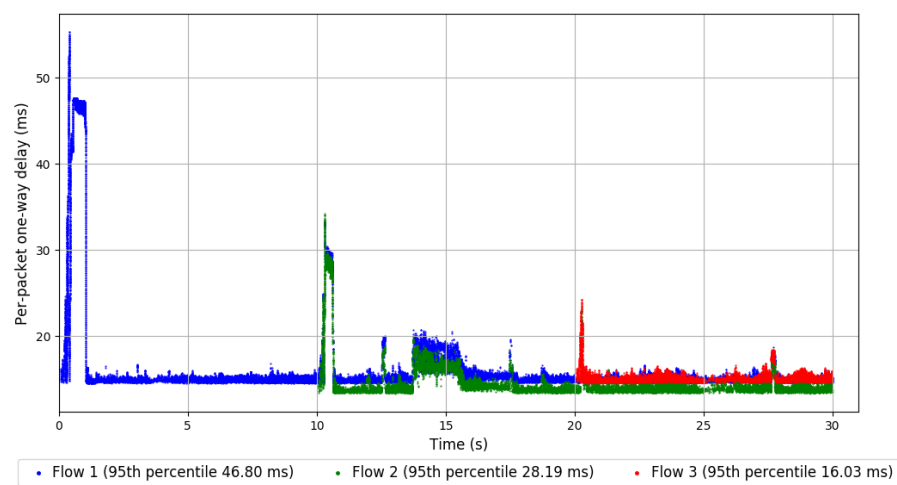
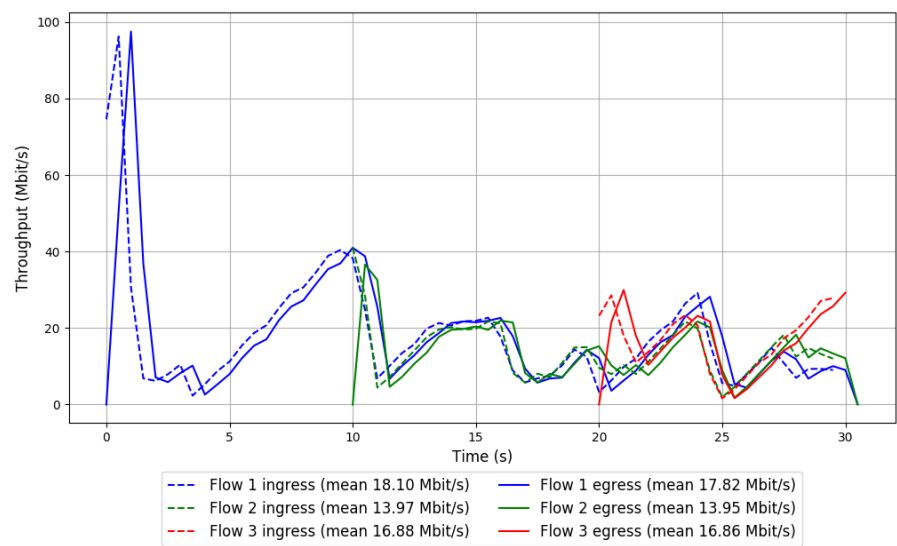


Run 6: Statistics of TCP Vegas

Start at: 2018-05-22 05:07:20  
End at: 2018-05-22 05:07:50  
Local clock offset: 1.222 ms  
Remote clock offset: -12.207 ms

# Below is generated by plot.py at 2018-05-22 06:41:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 32.71 Mbit/s  
95th percentile per-packet one-way delay: 44.635 ms  
Loss rate: 0.90%  
-- Flow 1:  
Average throughput: 17.82 Mbit/s  
95th percentile per-packet one-way delay: 46.805 ms  
Loss rate: 1.54%  
-- Flow 2:  
Average throughput: 13.95 Mbit/s  
95th percentile per-packet one-way delay: 28.190 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 16.86 Mbit/s  
95th percentile per-packet one-way delay: 16.034 ms  
Loss rate: 0.10%

Run 6: Report of TCP Vegas — Data Link

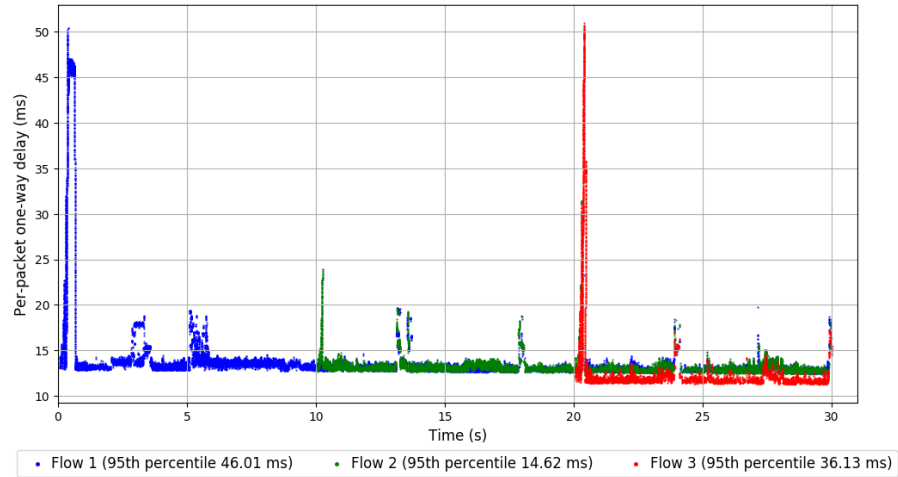
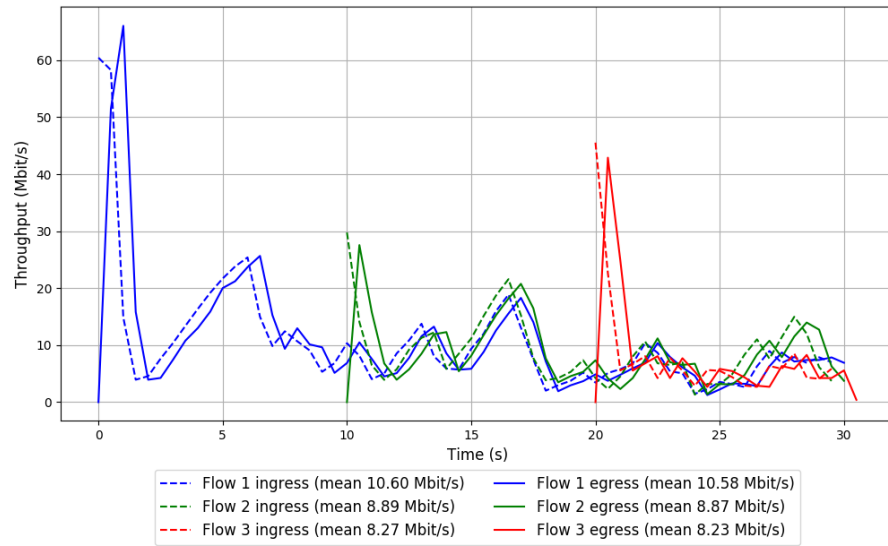


Run 7: Statistics of TCP Vegas

Start at: 2018-05-22 05:26:14  
End at: 2018-05-22 05:26:44  
Local clock offset: 2.758 ms  
Remote clock offset: -7.134 ms

# Below is generated by plot.py at 2018-05-22 06:41:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 19.21 Mbit/s  
95th percentile per-packet one-way delay: 43.355 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 10.58 Mbit/s  
95th percentile per-packet one-way delay: 46.010 ms  
Loss rate: 0.32%  
-- Flow 2:  
Average throughput: 8.87 Mbit/s  
95th percentile per-packet one-way delay: 14.622 ms  
Loss rate: 0.25%  
-- Flow 3:  
Average throughput: 8.23 Mbit/s  
95th percentile per-packet one-way delay: 36.134 ms  
Loss rate: 0.48%

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



Run 8: Statistics of TCP Vegas

Start at: 2018-05-22 05:45:12

End at: 2018-05-22 05:45:42

Local clock offset: 3.69 ms

Remote clock offset: 0.273 ms

# Below is generated by plot.py at 2018-05-22 06:41:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 15.02 Mbit/s

95th percentile per-packet one-way delay: 15.101 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 7.06 Mbit/s

95th percentile per-packet one-way delay: 12.801 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 8.90 Mbit/s

95th percentile per-packet one-way delay: 17.170 ms

Loss rate: 0.27%

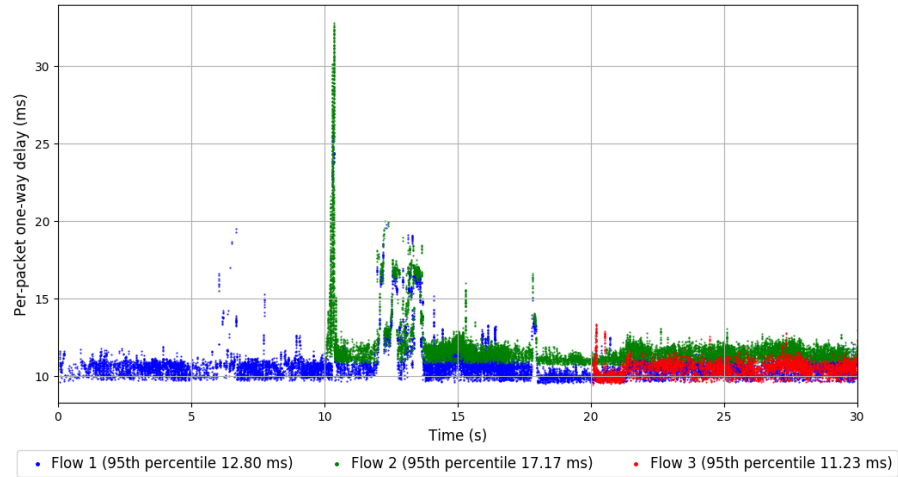
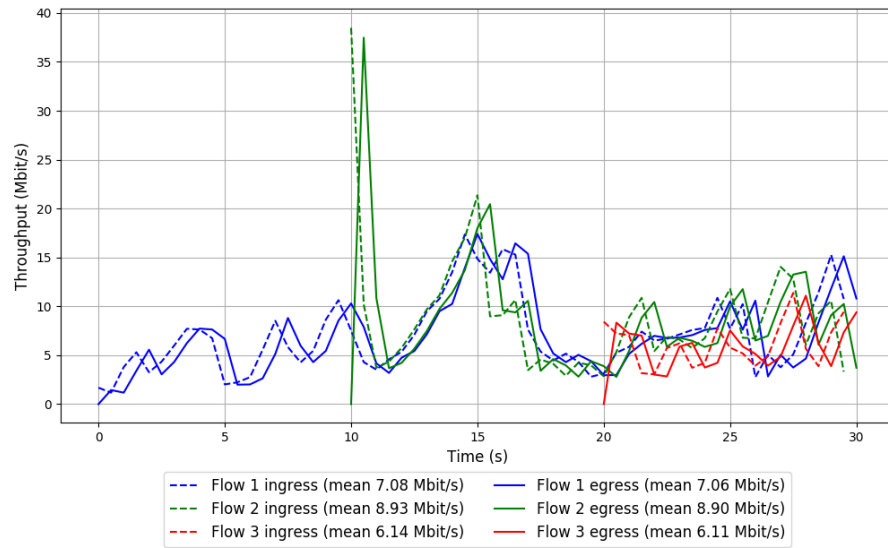
-- Flow 3:

Average throughput: 6.11 Mbit/s

95th percentile per-packet one-way delay: 11.229 ms

Loss rate: 0.43%

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



Run 9: Statistics of TCP Vegas

Start at: 2018-05-22 06:03:38

End at: 2018-05-22 06:04:08

Local clock offset: 0.808 ms

Remote clock offset: 2.544 ms

# Below is generated by plot.py at 2018-05-22 06:41:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 34.74 Mbit/s

95th percentile per-packet one-way delay: 12.992 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 18.67 Mbit/s

95th percentile per-packet one-way delay: 13.648 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 17.07 Mbit/s

95th percentile per-packet one-way delay: 12.155 ms

Loss rate: 0.11%

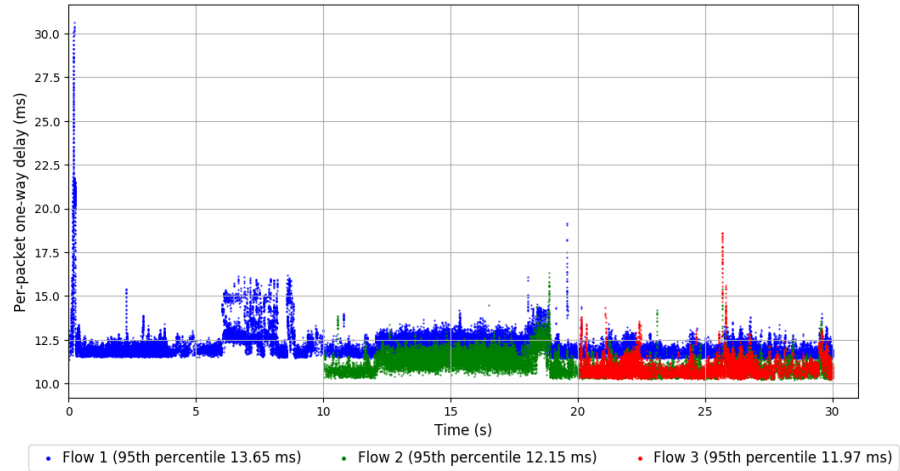
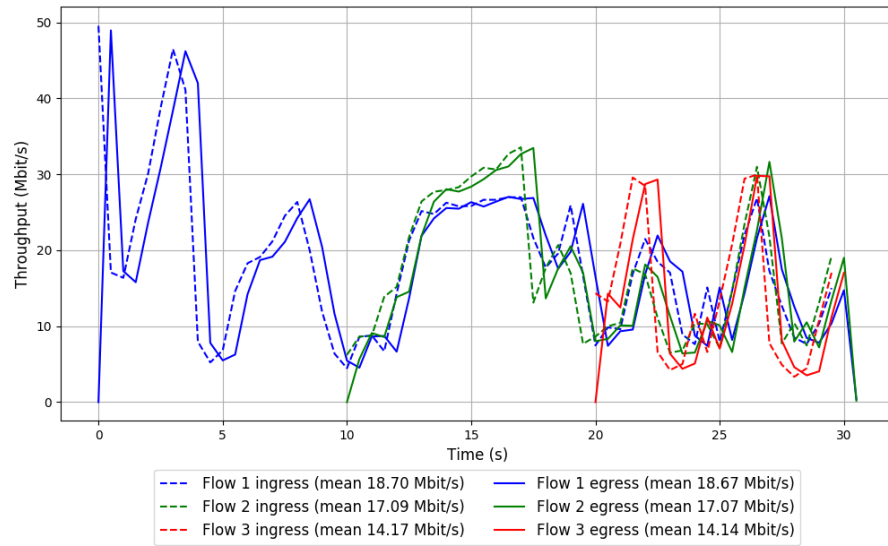
-- Flow 3:

Average throughput: 14.14 Mbit/s

95th percentile per-packet one-way delay: 11.969 ms

Loss rate: 0.20%

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



Run 10: Statistics of TCP Vegas

Start at: 2018-05-22 06:22:13

End at: 2018-05-22 06:22:43

Local clock offset: -0.112 ms

Remote clock offset: 3.577 ms

# Below is generated by plot.py at 2018-05-22 06:41:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 13.60 Mbit/s

95th percentile per-packet one-way delay: 11.758 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 6.77 Mbit/s

95th percentile per-packet one-way delay: 11.783 ms

Loss rate: 1.39%

-- Flow 2:

Average throughput: 6.87 Mbit/s

95th percentile per-packet one-way delay: 11.377 ms

Loss rate: 1.31%

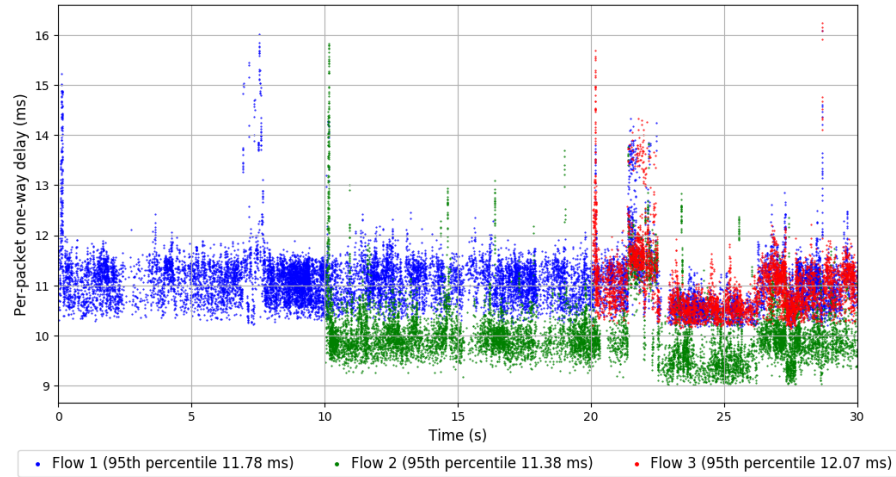
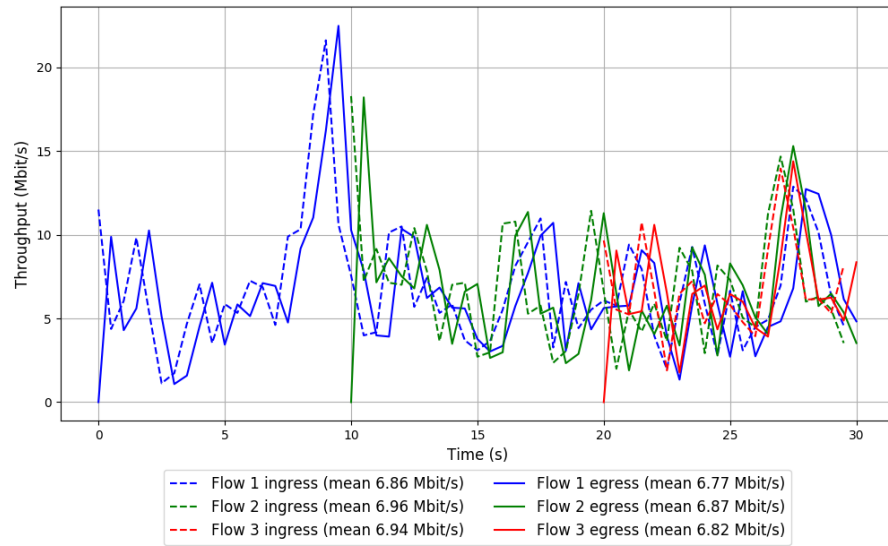
-- Flow 3:

Average throughput: 6.82 Mbit/s

95th percentile per-packet one-way delay: 12.066 ms

Loss rate: 1.65%

# Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-05-22 03:24:42

End at: 2018-05-22 03:25:12

Local clock offset: -6.594 ms

Remote clock offset: -1.884 ms

Run 1: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Verus

Start at: 2018-05-22 03:43:08

End at: 2018-05-22 03:43:38

Local clock offset: 3.631 ms

Remote clock offset: -4.093 ms

Run 2: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Verus

Start at: 2018-05-22 04:01:23

End at: 2018-05-22 04:01:53

Local clock offset: 1.044 ms

Remote clock offset: -4.516 ms

Run 3: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of Verus

Start at: 2018-05-22 04:19:51

End at: 2018-05-22 04:20:21

Local clock offset: -4.557 ms

Remote clock offset: -8.704 ms

Run 4: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of Verus

Start at: 2018-05-22 04:38:13

End at: 2018-05-22 04:38:43

Local clock offset: -0.774 ms

Remote clock offset: -9.412 ms

Run 5: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of Verus

Start at: 2018-05-22 04:56:39

End at: 2018-05-22 04:57:09

Local clock offset: 1.113 ms

Remote clock offset: -10.8 ms

Run 6: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of Verus

Start at: 2018-05-22 05:15:18

End at: 2018-05-22 05:15:48

Local clock offset: 0.348 ms

Remote clock offset: -12.943 ms

Run 7: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of Verus

Start at: 2018-05-22 05:34:12

End at: 2018-05-22 05:34:42

Local clock offset: 2.636 ms

Remote clock offset: -3.015 ms

Run 8: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of Verus

Start at: 2018-05-22 05:53:13

End at: 2018-05-22 05:53:43

Local clock offset: 2.451 ms

Remote clock offset: 2.502 ms

Run 9: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of Verus

Start at: 2018-05-22 06:11:37

End at: 2018-05-22 06:12:07

Local clock offset: 1.456 ms

Remote clock offset: -1.89 ms

Run 10: Report of Verus — Data Link

Figure is missing

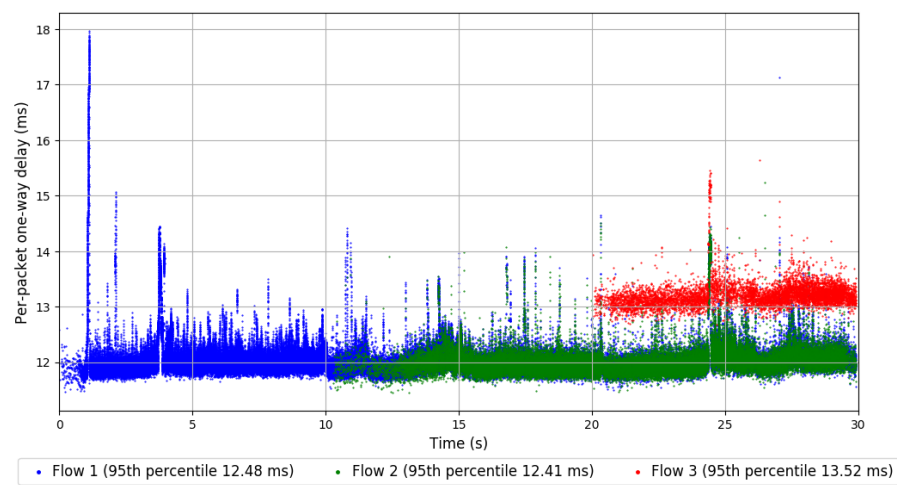
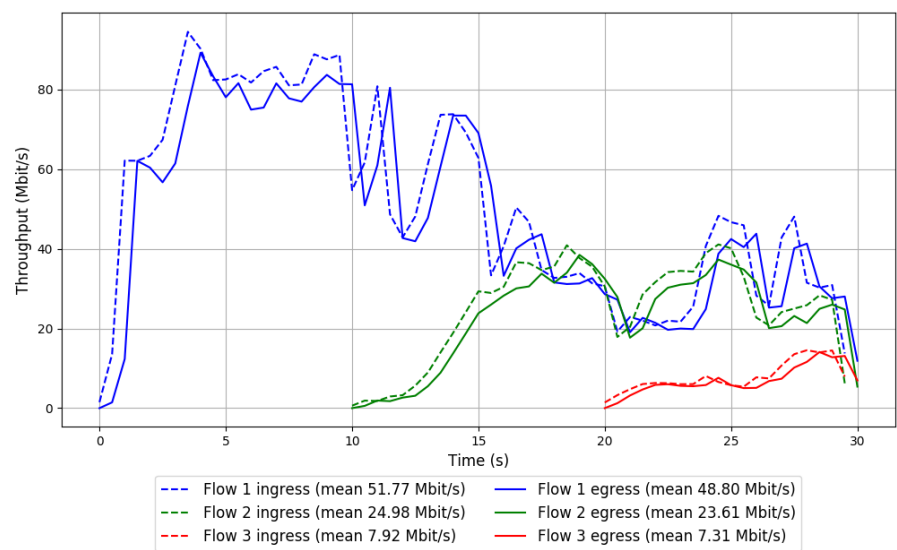
Figure is missing

Run 1: Statistics of PCC-Vivace

Start at: 2018-05-22 03:25:47  
End at: 2018-05-22 03:26:17  
Local clock offset: -6.757 ms  
Remote clock offset: -2.632 ms

# Below is generated by plot.py at 2018-05-22 06:41:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 66.72 Mbit/s  
95th percentile per-packet one-way delay: 13.057 ms  
Loss rate: 6.02%  
-- Flow 1:  
Average throughput: 48.80 Mbit/s  
95th percentile per-packet one-way delay: 12.483 ms  
Loss rate: 5.73%  
-- Flow 2:  
Average throughput: 23.61 Mbit/s  
95th percentile per-packet one-way delay: 12.406 ms  
Loss rate: 6.68%  
-- Flow 3:  
Average throughput: 7.31 Mbit/s  
95th percentile per-packet one-way delay: 13.521 ms  
Loss rate: 7.68%

Run 1: Report of PCC-Vivace — Data Link

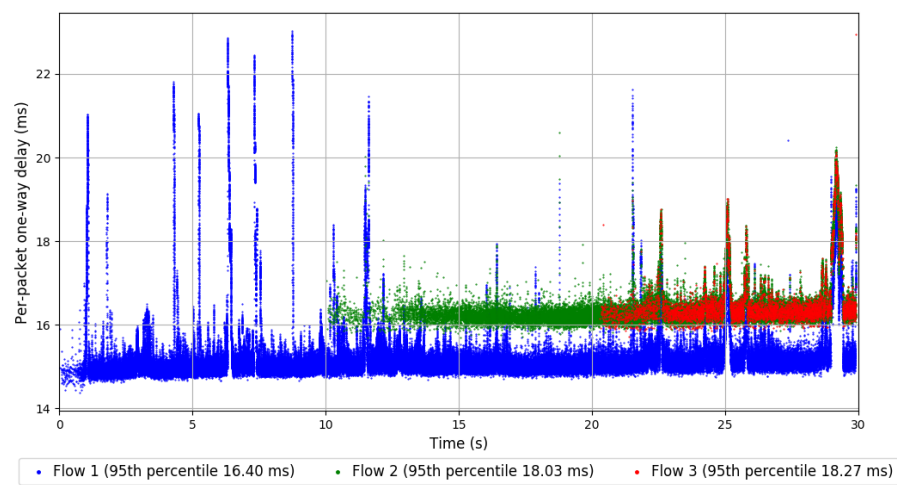
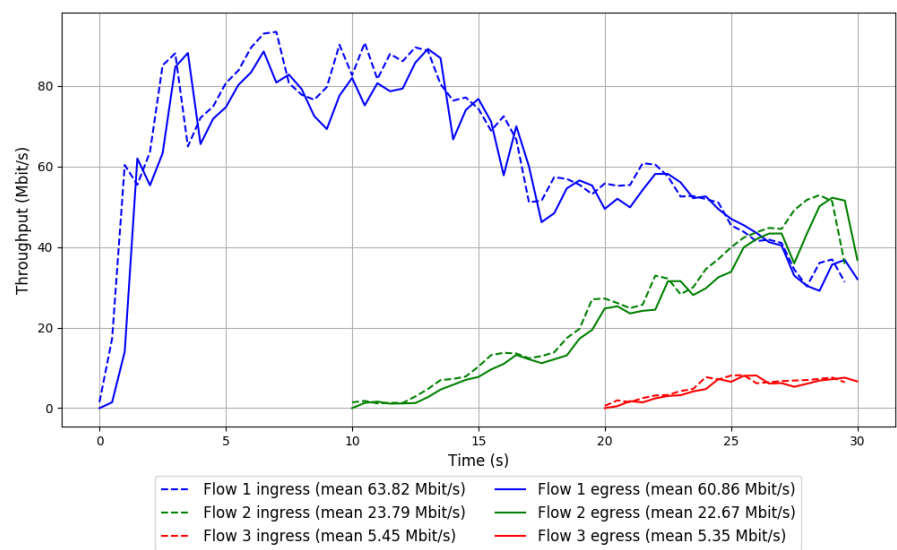


Run 2: Statistics of PCC-Vivace

Start at: 2018-05-22 03:44:13  
End at: 2018-05-22 03:44:43  
Local clock offset: 0.363 ms  
Remote clock offset: -2.933 ms

# Below is generated by plot.py at 2018-05-22 06:41:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.65 Mbit/s  
95th percentile per-packet one-way delay: 17.068 ms  
Loss rate: 4.64%  
-- Flow 1:  
Average throughput: 60.86 Mbit/s  
95th percentile per-packet one-way delay: 16.398 ms  
Loss rate: 4.63%  
-- Flow 2:  
Average throughput: 22.67 Mbit/s  
95th percentile per-packet one-way delay: 18.031 ms  
Loss rate: 4.69%  
-- Flow 3:  
Average throughput: 5.35 Mbit/s  
95th percentile per-packet one-way delay: 18.270 ms  
Loss rate: 4.20%

Run 2: Report of PCC-Vivace — Data Link

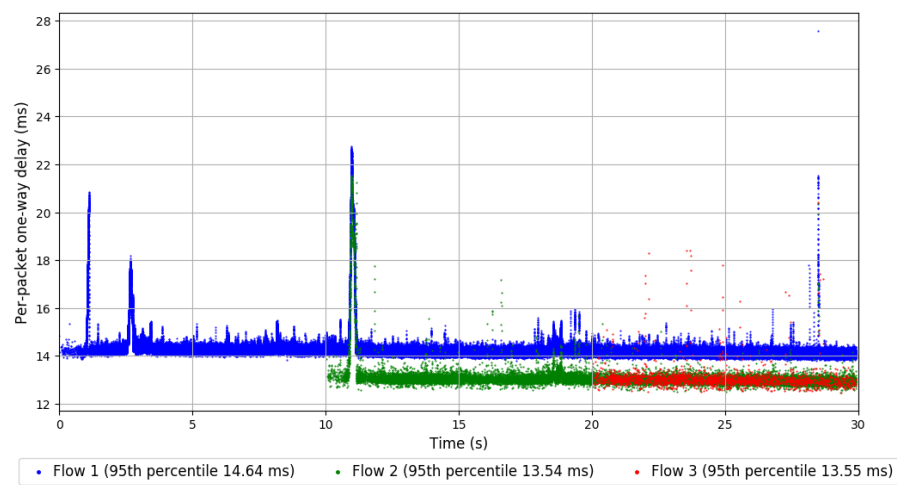
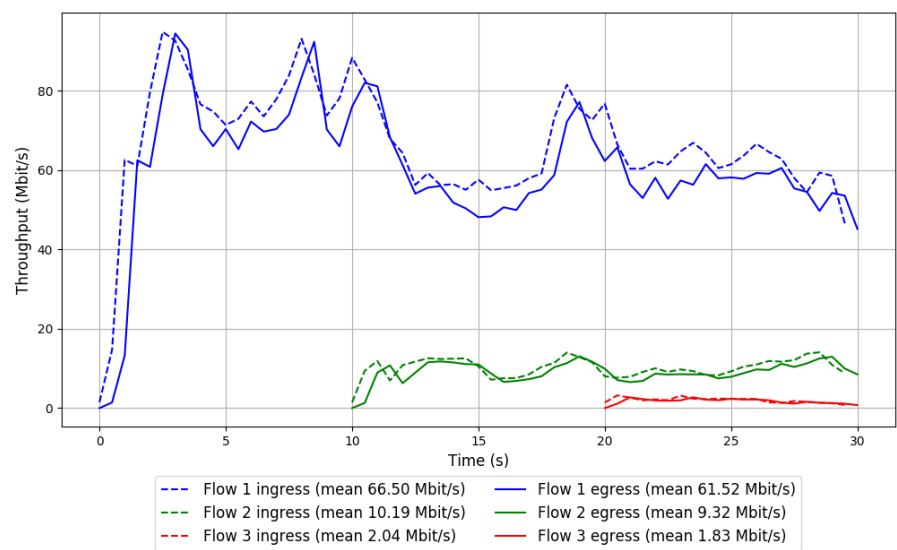


Run 3: Statistics of PCC-Vivace

Start at: 2018-05-22 04:02:28  
End at: 2018-05-22 04:02:58  
Local clock offset: -0.43 ms  
Remote clock offset: -4.369 ms

# Below is generated by plot.py at 2018-05-22 06:41:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.33 Mbit/s  
95th percentile per-packet one-way delay: 14.614 ms  
Loss rate: 7.61%  
-- Flow 1:  
Average throughput: 61.52 Mbit/s  
95th percentile per-packet one-way delay: 14.644 ms  
Loss rate: 7.48%  
-- Flow 2:  
Average throughput: 9.32 Mbit/s  
95th percentile per-packet one-way delay: 13.537 ms  
Loss rate: 8.54%  
-- Flow 3:  
Average throughput: 1.83 Mbit/s  
95th percentile per-packet one-way delay: 13.553 ms  
Loss rate: 10.21%

Run 3: Report of PCC-Vivace — Data Link

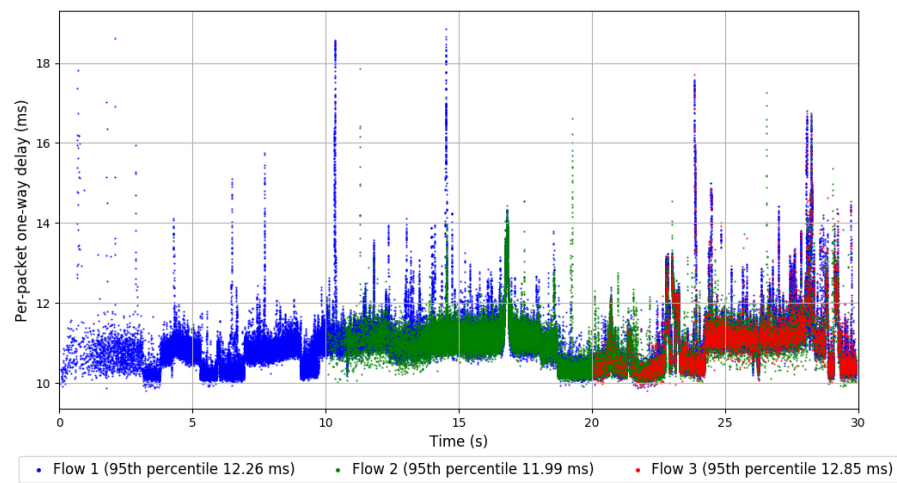
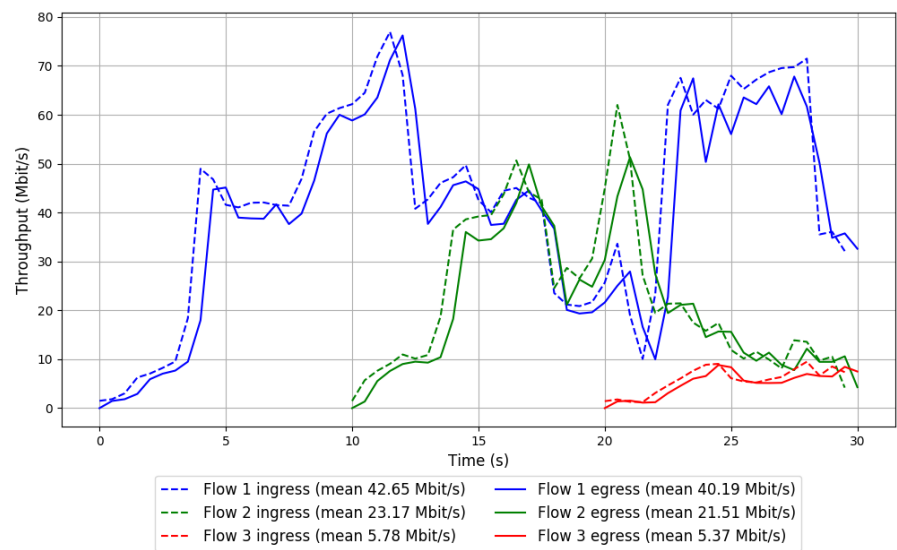


Run 4: Statistics of PCC-Vivace

Start at: 2018-05-22 04:20:56  
End at: 2018-05-22 04:21:26  
Local clock offset: -4.476 ms  
Remote clock offset: -9.431 ms

# Below is generated by plot.py at 2018-05-22 06:41:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 56.27 Mbit/s  
95th percentile per-packet one-way delay: 12.220 ms  
Loss rate: 6.18%  
-- Flow 1:  
Average throughput: 40.19 Mbit/s  
95th percentile per-packet one-way delay: 12.260 ms  
Loss rate: 5.77%  
-- Flow 2:  
Average throughput: 21.51 Mbit/s  
95th percentile per-packet one-way delay: 11.990 ms  
Loss rate: 7.20%  
-- Flow 3:  
Average throughput: 5.37 Mbit/s  
95th percentile per-packet one-way delay: 12.846 ms  
Loss rate: 7.23%

Run 4: Report of PCC-Vivace — Data Link

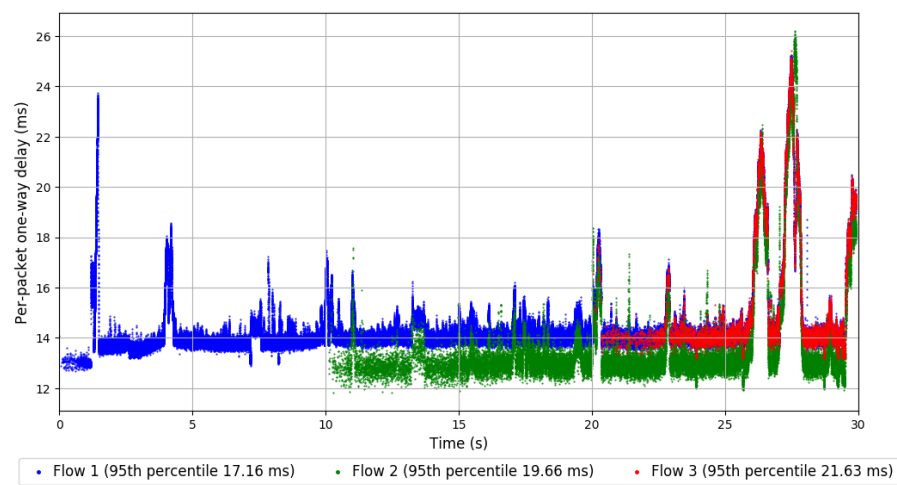
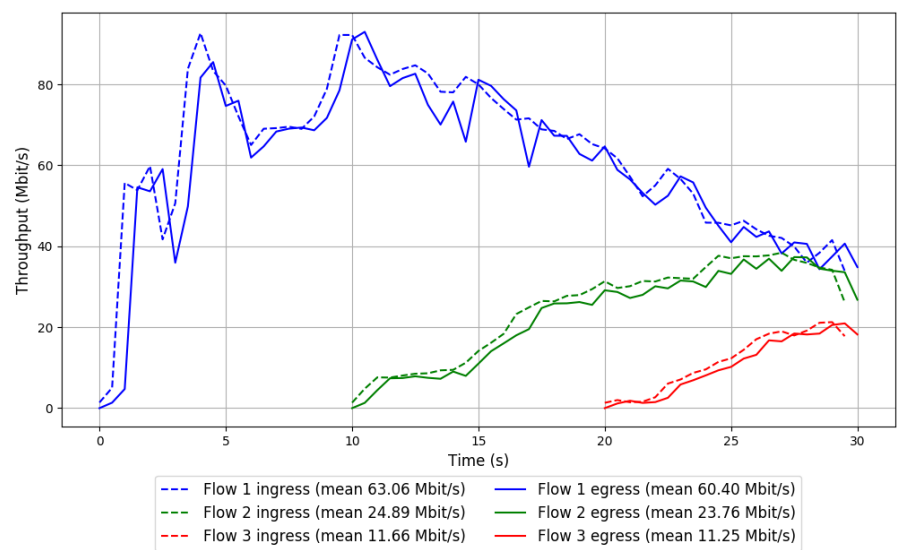


Run 5: Statistics of PCC-Vivace

Start at: 2018-05-22 04:39:18  
End at: 2018-05-22 04:39:48  
Local clock offset: -1.301 ms  
Remote clock offset: -11.698 ms

# Below is generated by plot.py at 2018-05-22 06:41:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.92 Mbit/s  
95th percentile per-packet one-way delay: 18.298 ms  
Loss rate: 4.24%  
-- Flow 1:  
Average throughput: 60.40 Mbit/s  
95th percentile per-packet one-way delay: 17.163 ms  
Loss rate: 4.20%  
-- Flow 2:  
Average throughput: 23.76 Mbit/s  
95th percentile per-packet one-way delay: 19.658 ms  
Loss rate: 4.53%  
-- Flow 3:  
Average throughput: 11.25 Mbit/s  
95th percentile per-packet one-way delay: 21.627 ms  
Loss rate: 3.53%

Run 5: Report of PCC-Vivace — Data Link

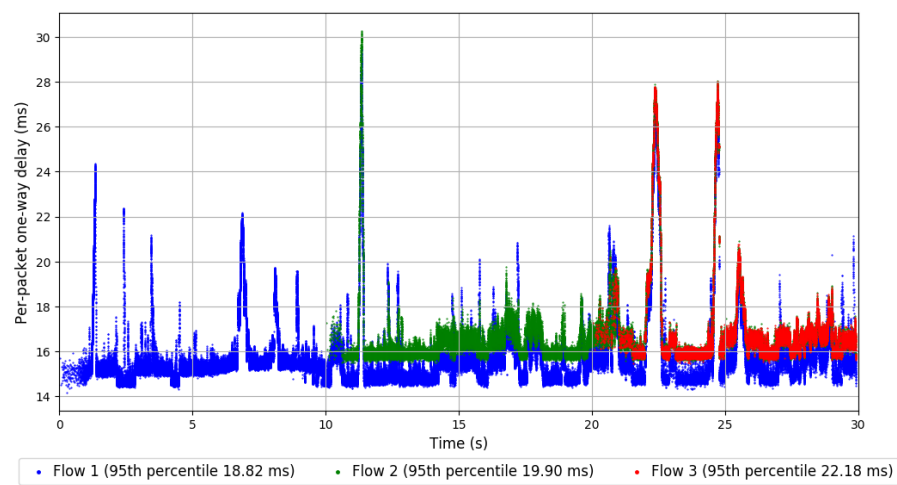
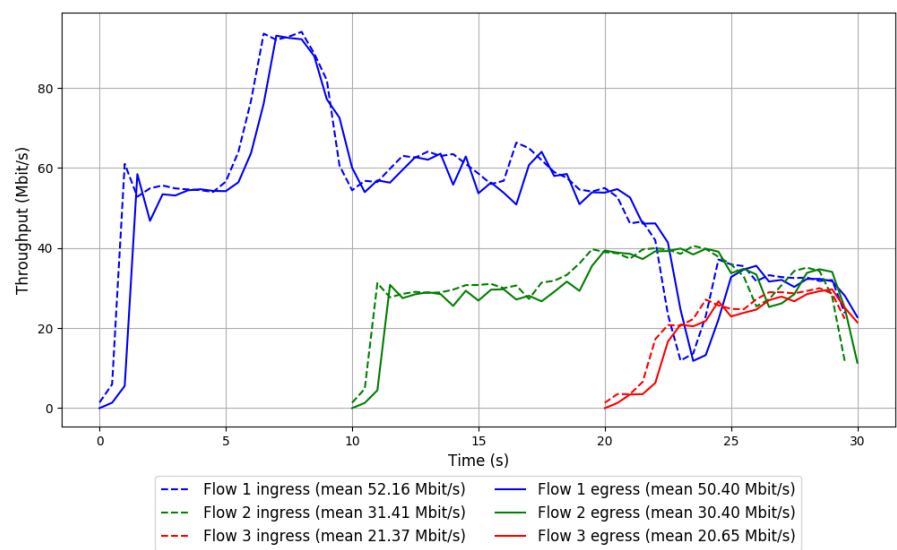


Run 6: Statistics of PCC-Vivace

Start at: 2018-05-22 04:57:44  
End at: 2018-05-22 04:58:14  
Local clock offset: 0.534 ms  
Remote clock offset: -10.797 ms

# Below is generated by plot.py at 2018-05-22 06:41:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.43 Mbit/s  
95th percentile per-packet one-way delay: 19.253 ms  
Loss rate: 3.34%  
-- Flow 1:  
Average throughput: 50.40 Mbit/s  
95th percentile per-packet one-way delay: 18.821 ms  
Loss rate: 3.38%  
-- Flow 2:  
Average throughput: 30.40 Mbit/s  
95th percentile per-packet one-way delay: 19.904 ms  
Loss rate: 3.23%  
-- Flow 3:  
Average throughput: 20.65 Mbit/s  
95th percentile per-packet one-way delay: 22.180 ms  
Loss rate: 3.39%

Run 6: Report of PCC-Vivace — Data Link

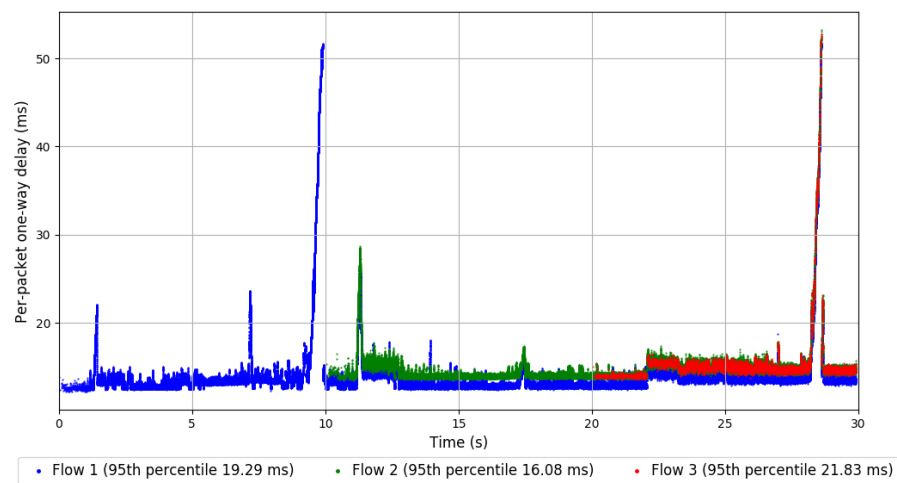
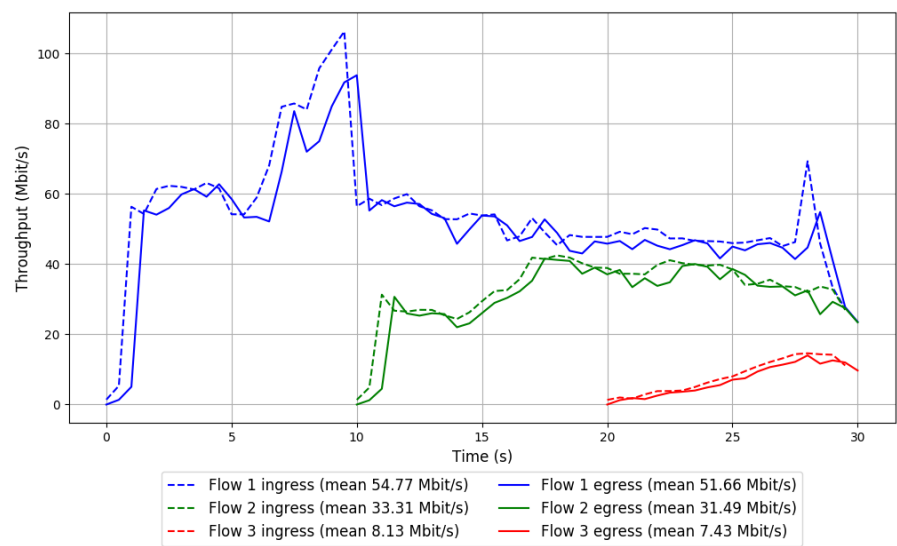


Run 7: Statistics of PCC-Vivace

Start at: 2018-05-22 05:16:23  
End at: 2018-05-22 05:16:53  
Local clock offset: 0.773 ms  
Remote clock offset: -14.572 ms

# Below is generated by plot.py at 2018-05-22 06:41:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.06 Mbit/s  
95th percentile per-packet one-way delay: 17.523 ms  
Loss rate: 5.71%  
-- Flow 1:  
Average throughput: 51.66 Mbit/s  
95th percentile per-packet one-way delay: 19.285 ms  
Loss rate: 5.67%  
-- Flow 2:  
Average throughput: 31.49 Mbit/s  
95th percentile per-packet one-way delay: 16.084 ms  
Loss rate: 5.46%  
-- Flow 3:  
Average throughput: 7.43 Mbit/s  
95th percentile per-packet one-way delay: 21.831 ms  
Loss rate: 8.52%

Run 7: Report of PCC-Vivace — Data Link

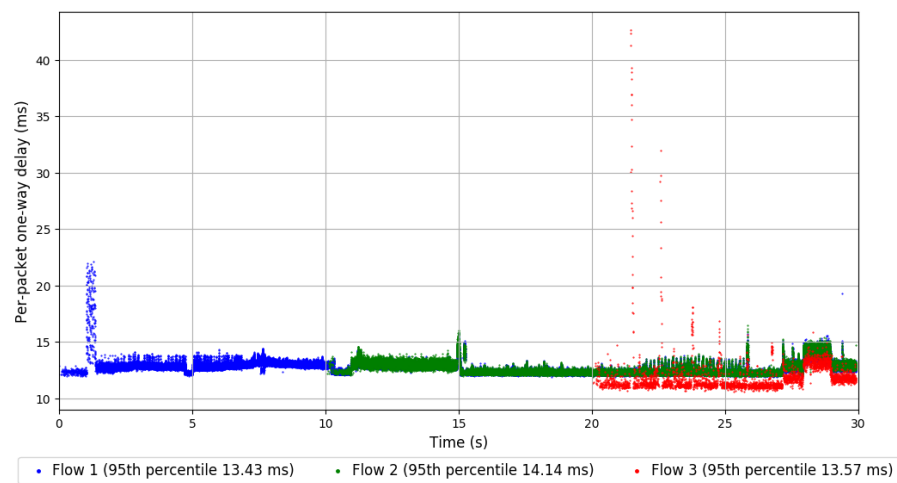
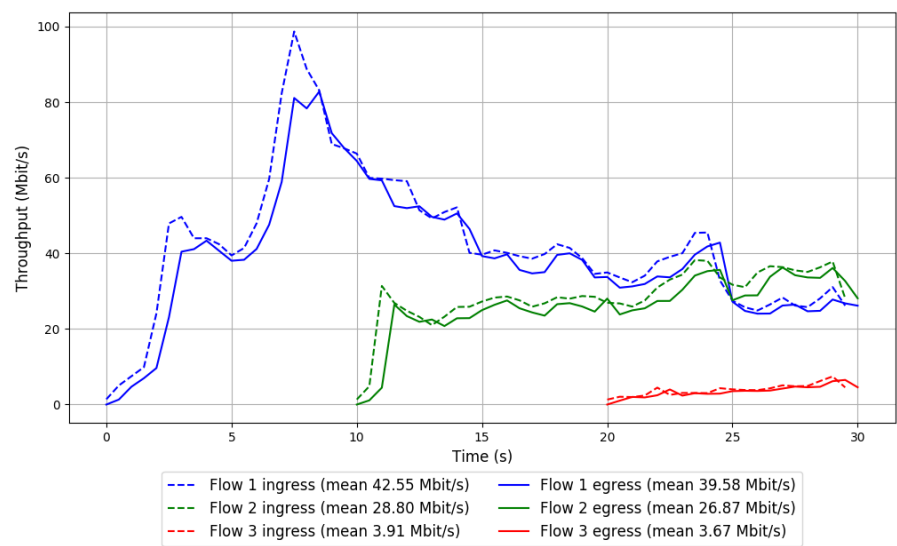


Run 8: Statistics of PCC-Vivace

Start at: 2018-05-22 05:35:18  
End at: 2018-05-22 05:35:48  
Local clock offset: 2.501 ms  
Remote clock offset: -2.366 ms

# Below is generated by plot.py at 2018-05-22 06:41:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 58.66 Mbit/s  
95th percentile per-packet one-way delay: 13.669 ms  
Loss rate: 6.88%  
-- Flow 1:  
Average throughput: 39.58 Mbit/s  
95th percentile per-packet one-way delay: 13.429 ms  
Loss rate: 6.98%  
-- Flow 2:  
Average throughput: 26.87 Mbit/s  
95th percentile per-packet one-way delay: 14.144 ms  
Loss rate: 6.69%  
-- Flow 3:  
Average throughput: 3.67 Mbit/s  
95th percentile per-packet one-way delay: 13.571 ms  
Loss rate: 6.18%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-05-22 05:54:17

End at: 2018-05-22 05:54:47

Local clock offset: 0.359 ms

Remote clock offset: 2.309 ms

# Below is generated by plot.py at 2018-05-22 06:41:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 70.59 Mbit/s

95th percentile per-packet one-way delay: 17.596 ms

Loss rate: 4.26%

-- Flow 1:

Average throughput: 45.79 Mbit/s

95th percentile per-packet one-way delay: 17.284 ms

Loss rate: 3.73%

-- Flow 2:

Average throughput: 35.99 Mbit/s

95th percentile per-packet one-way delay: 17.973 ms

Loss rate: 5.14%

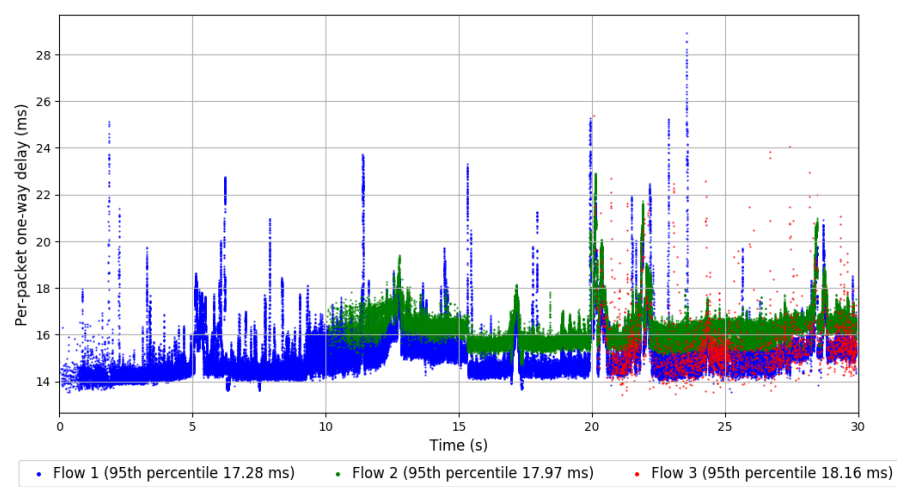
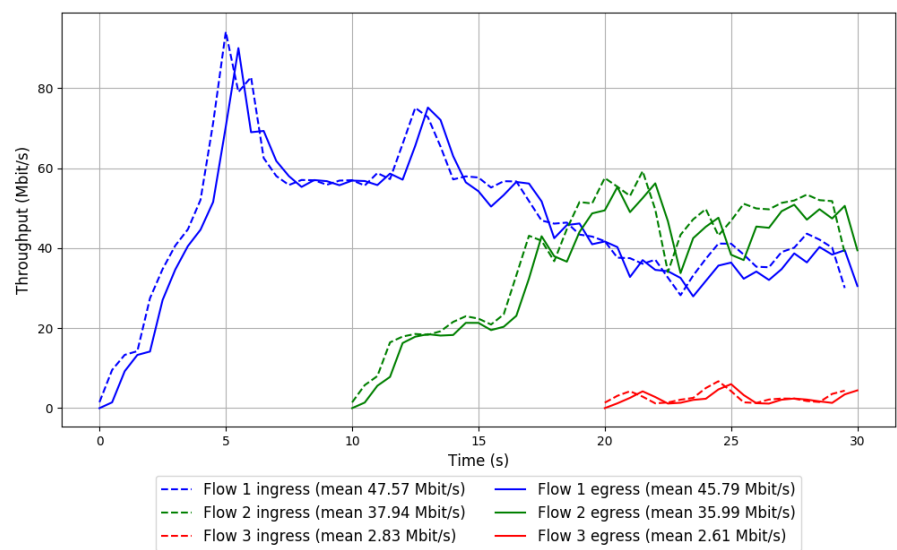
-- Flow 3:

Average throughput: 2.61 Mbit/s

95th percentile per-packet one-way delay: 18.165 ms

Loss rate: 7.58%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-05-22 06:12:42

End at: 2018-05-22 06:13:12

Local clock offset: 1.657 ms

Remote clock offset: 5.278 ms

# Below is generated by plot.py at 2018-05-22 06:41:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 49.69 Mbit/s

95th percentile per-packet one-way delay: 12.826 ms

Loss rate: 7.55%

-- Flow 1:

Average throughput: 40.80 Mbit/s

95th percentile per-packet one-way delay: 12.694 ms

Loss rate: 7.39%

-- Flow 2:

Average throughput: 8.17 Mbit/s

95th percentile per-packet one-way delay: 13.147 ms

Loss rate: 8.24%

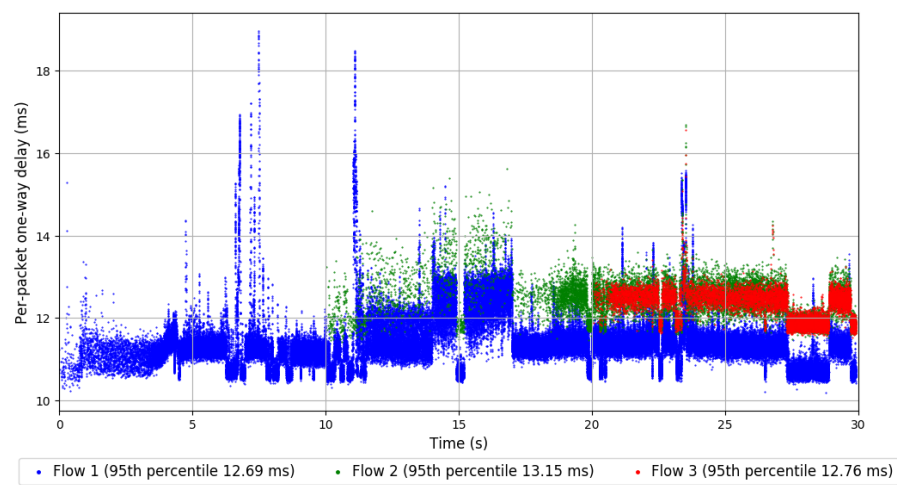
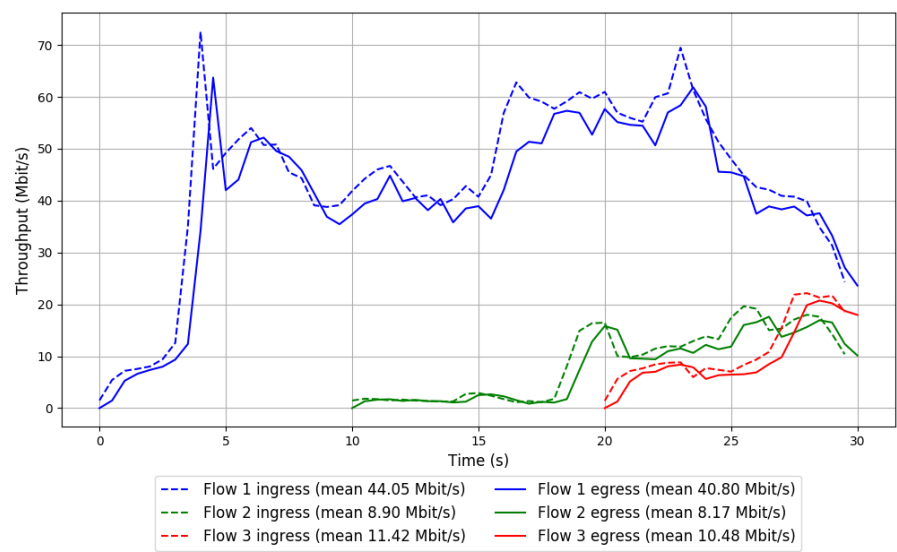
-- Flow 3:

Average throughput: 10.48 Mbit/s

95th percentile per-packet one-way delay: 12.758 ms

Loss rate: 8.29%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-05-22 03:20:12

End at: 2018-05-22 03:20:42

Local clock offset: -6.32 ms

Remote clock offset: -0.75 ms

# Below is generated by plot.py at 2018-05-22 06:41:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 15.956 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 15.814 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 16.335 ms

Loss rate: 0.00%

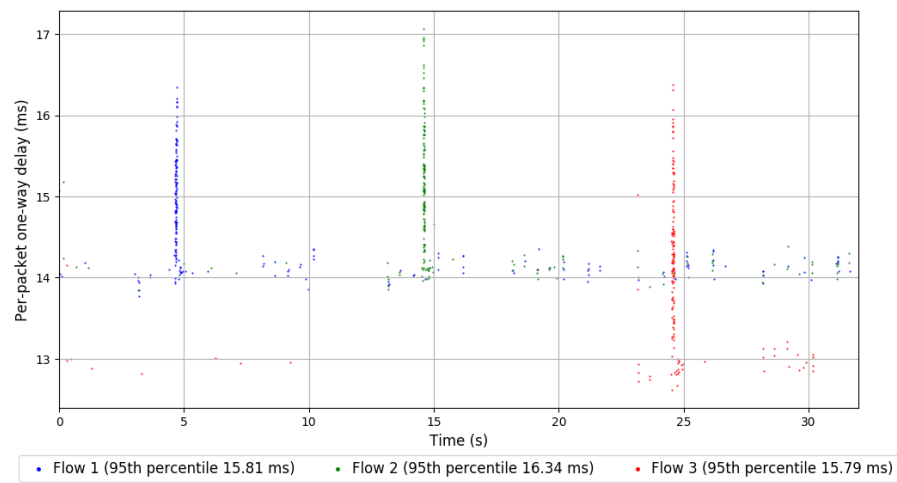
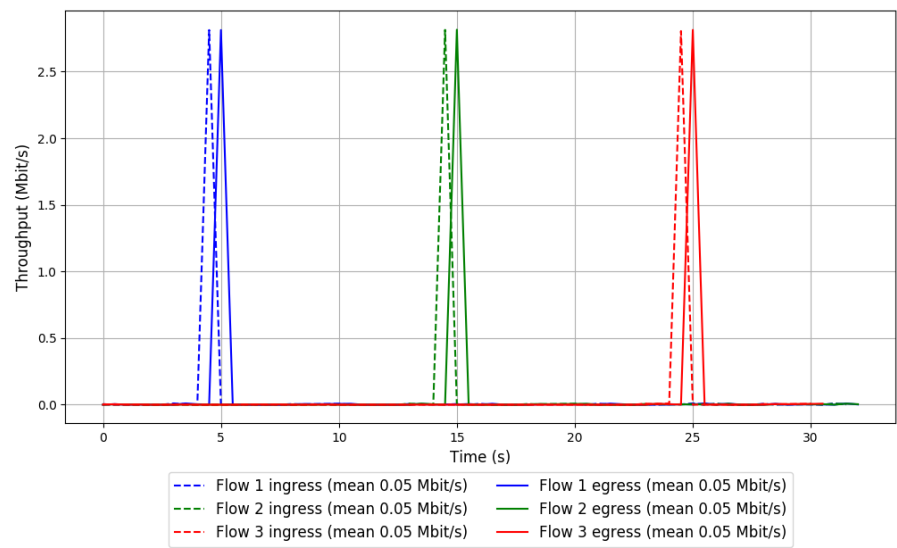
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 15.793 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

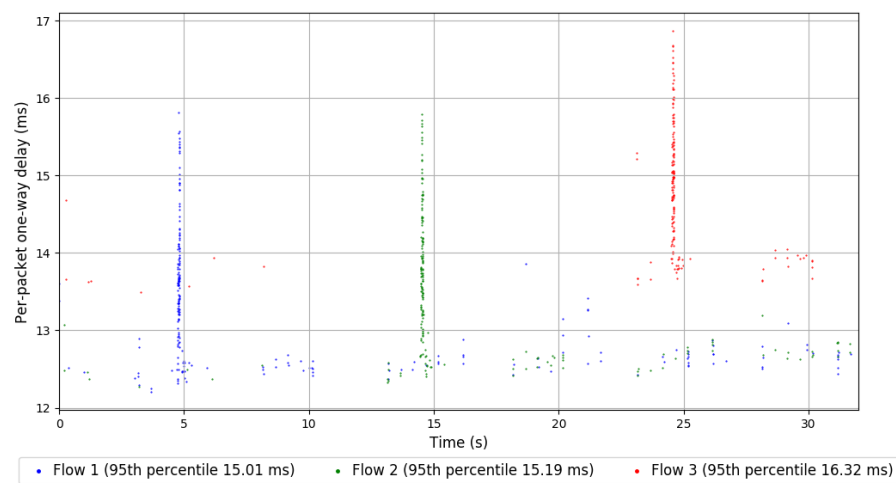
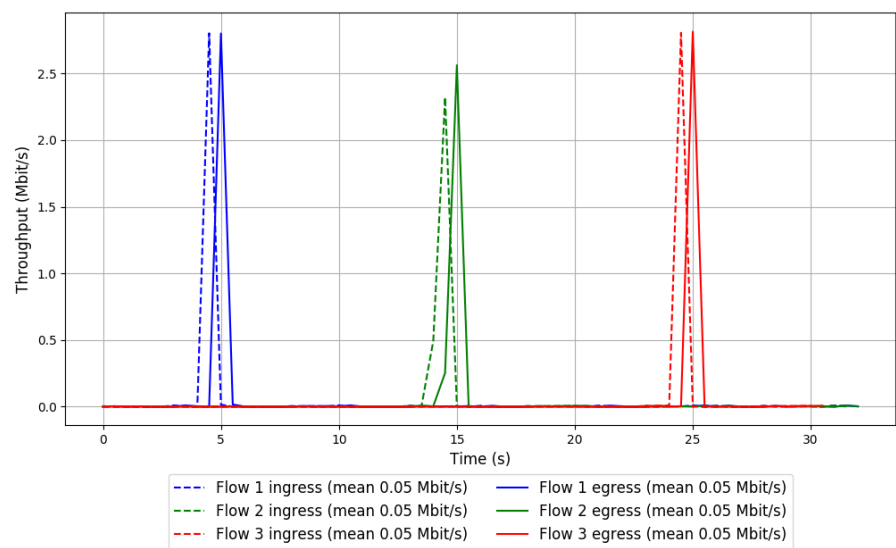


Run 2: Statistics of WebRTC media

Start at: 2018-05-22 03:38:34  
End at: 2018-05-22 03:39:04  
Local clock offset: 1.155 ms  
Remote clock offset: -2.183 ms

# Below is generated by plot.py at 2018-05-22 06:41:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 15.679 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 15.010 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 15.189 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 16.318 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

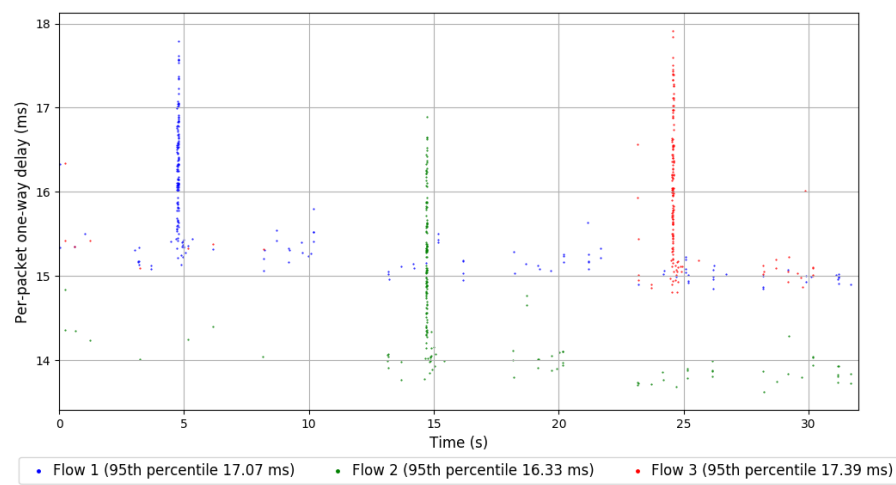
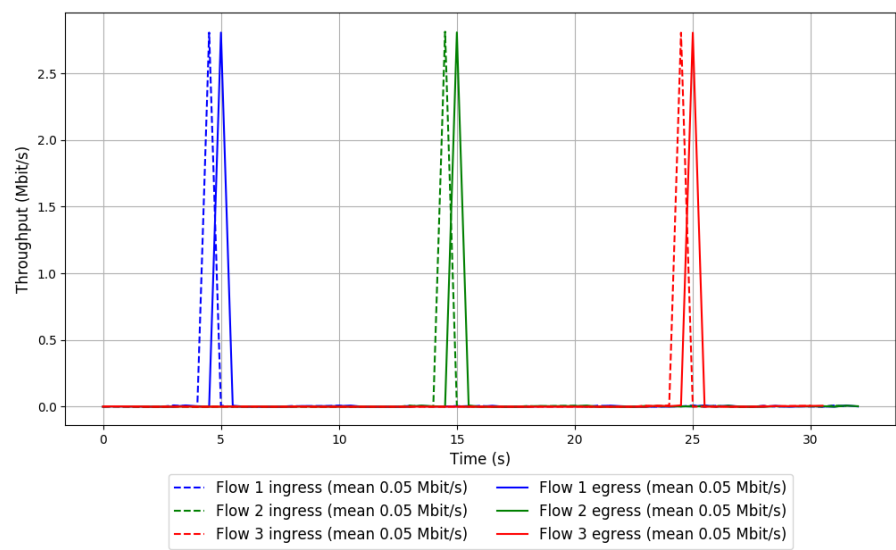


Run 3: Statistics of WebRTC media

Start at: 2018-05-22 03:56:48  
End at: 2018-05-22 03:57:18  
Local clock offset: 2.06 ms  
Remote clock offset: -4.029 ms

# Below is generated by plot.py at 2018-05-22 06:41:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 17.074 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 17.074 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 16.327 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 17.392 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

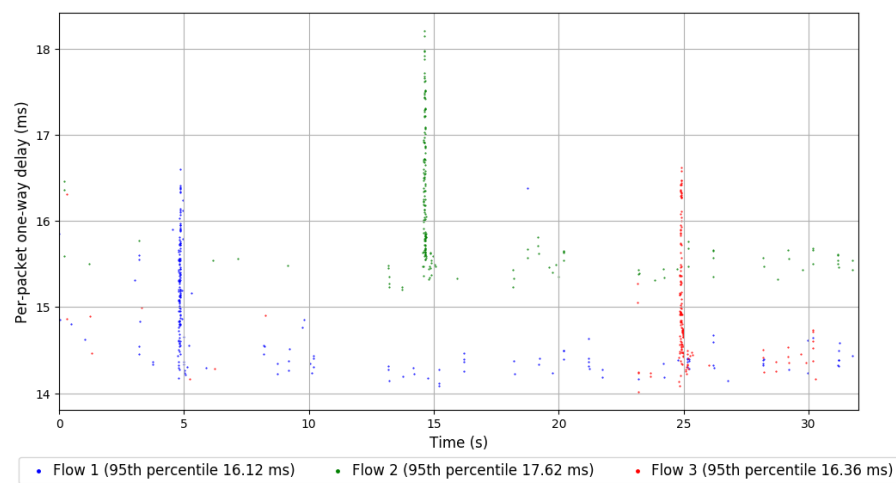
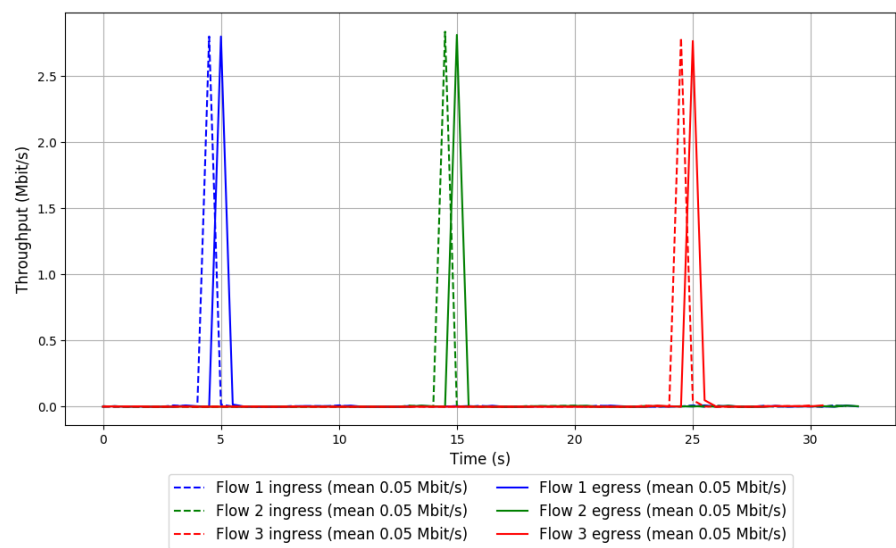


Run 4: Statistics of WebRTC media

Start at: 2018-05-22 04:15:13  
End at: 2018-05-22 04:15:43  
Local clock offset: -5.567 ms  
Remote clock offset: -6.026 ms

# Below is generated by plot.py at 2018-05-22 06:41:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 17.070 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 16.121 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 17.622 ms  
Loss rate: 0.82%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 16.364 ms  
Loss rate: 0.83%

Run 4: Report of WebRTC media — Data Link

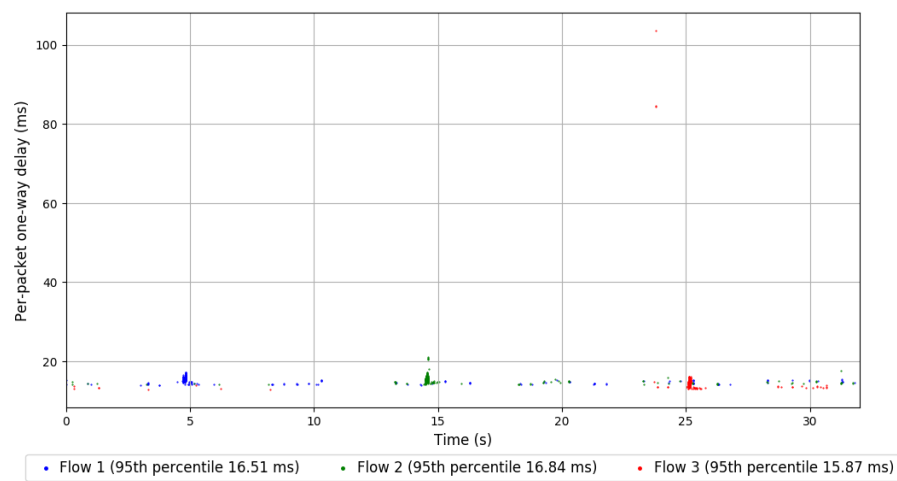
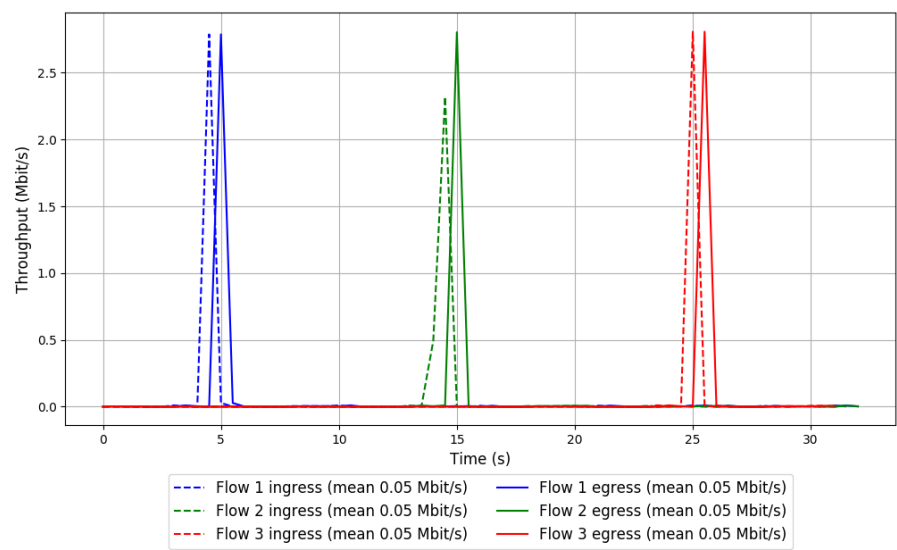


Run 5: Statistics of WebRTC media

Start at: 2018-05-22 04:33:35  
End at: 2018-05-22 04:34:05  
Local clock offset: -2.052 ms  
Remote clock offset: -9.149 ms

# Below is generated by plot.py at 2018-05-22 06:41:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 16.603 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 16.513 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 16.837 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 15.872 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

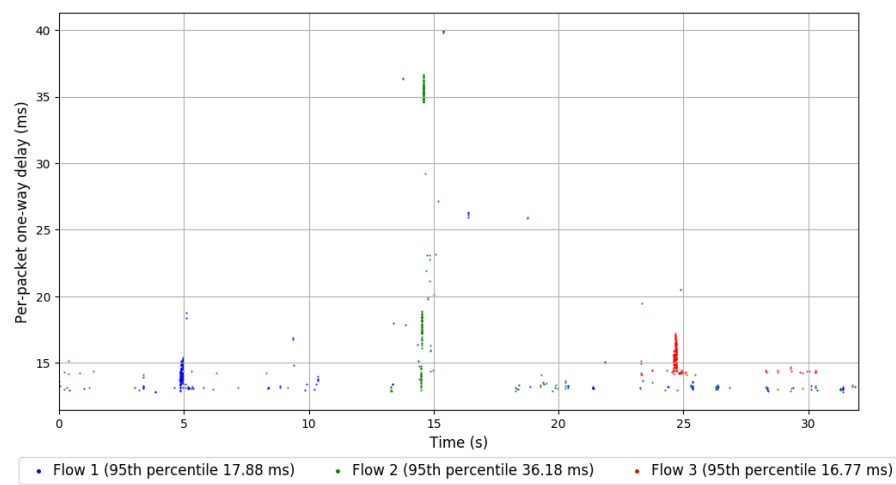
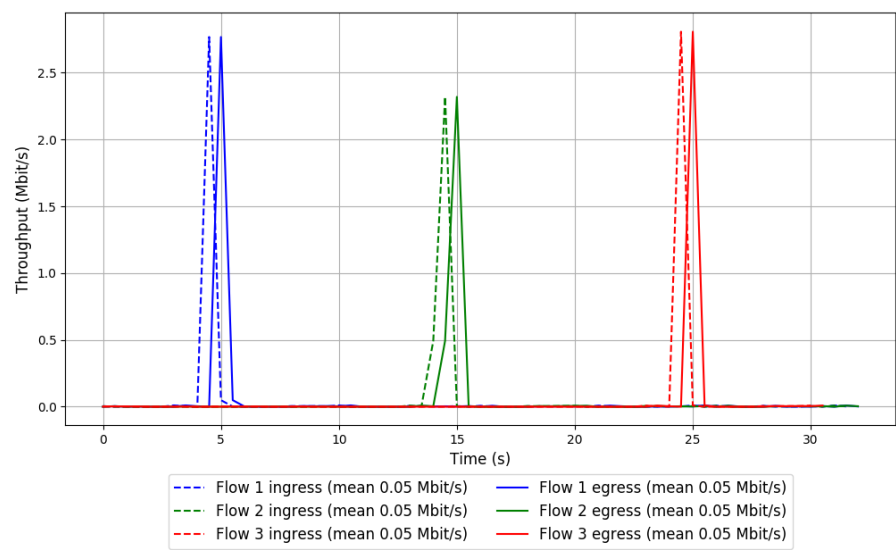


Run 6: Statistics of WebRTC media

Start at: 2018-05-22 04:51:59  
End at: 2018-05-22 04:52:29  
Local clock offset: -0.518 ms  
Remote clock offset: -12.299 ms

# Below is generated by plot.py at 2018-05-22 06:41:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 35.503 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 17.881 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 36.176 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 16.768 ms  
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

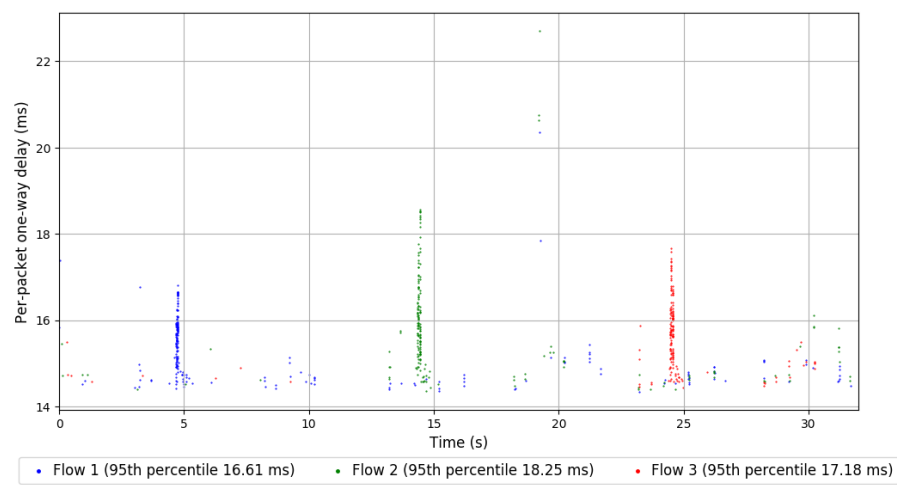
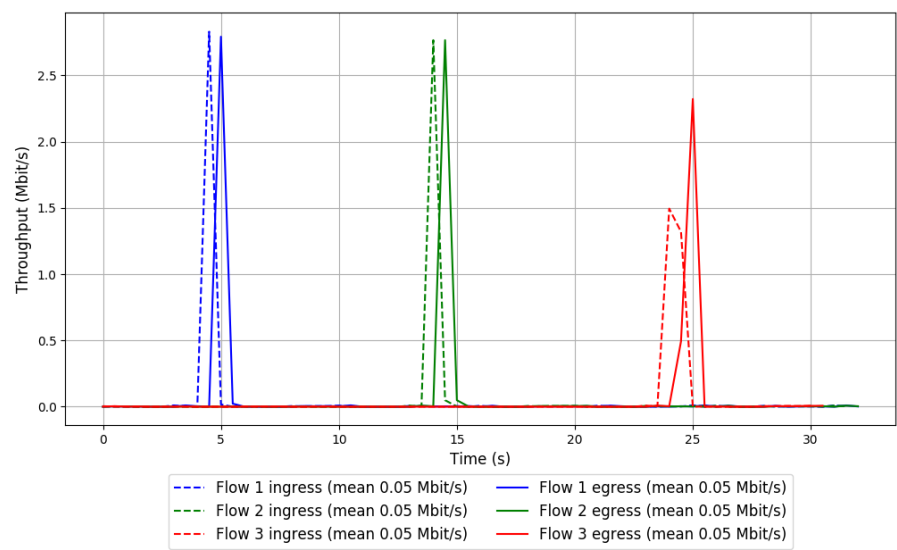


Run 7: Statistics of WebRTC media

Start at: 2018-05-22 05:10:41  
End at: 2018-05-22 05:11:11  
Local clock offset: 0.353 ms  
Remote clock offset: -12.197 ms

# Below is generated by plot.py at 2018-05-22 06:41:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 17.239 ms  
Loss rate: 0.36%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 16.614 ms  
Loss rate: 1.06%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 18.253 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 17.175 ms  
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

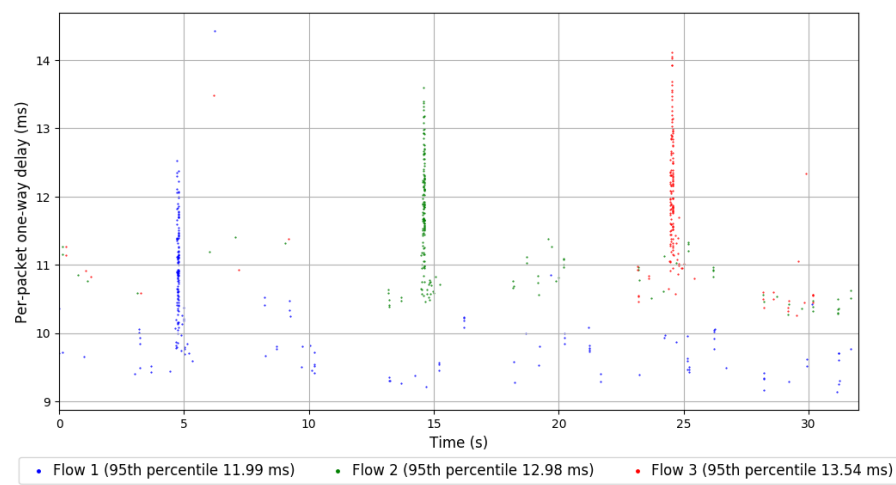
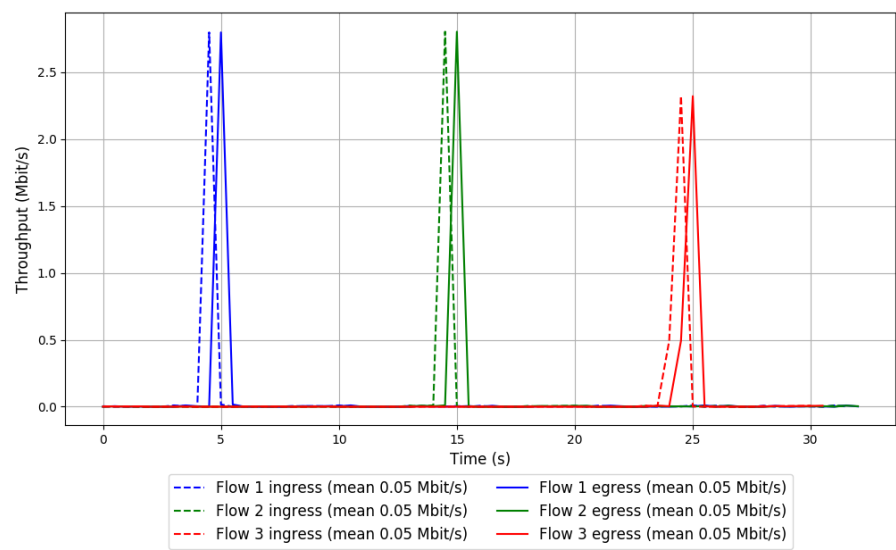


Run 8: Statistics of WebRTC media

Start at: 2018-05-22 05:29:32  
End at: 2018-05-22 05:30:02  
Local clock offset: 3.653 ms  
Remote clock offset: -5.691 ms

# Below is generated by plot.py at 2018-05-22 06:41:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 12.991 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 11.991 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 12.979 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 13.536 ms  
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-05-22 05:48:30

End at: 2018-05-22 05:49:00

Local clock offset: 1.158 ms

Remote clock offset: 1.187 ms

# Below is generated by plot.py at 2018-05-22 06:41:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 15.448 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 14.824 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 14.966 ms

Loss rate: 0.00%

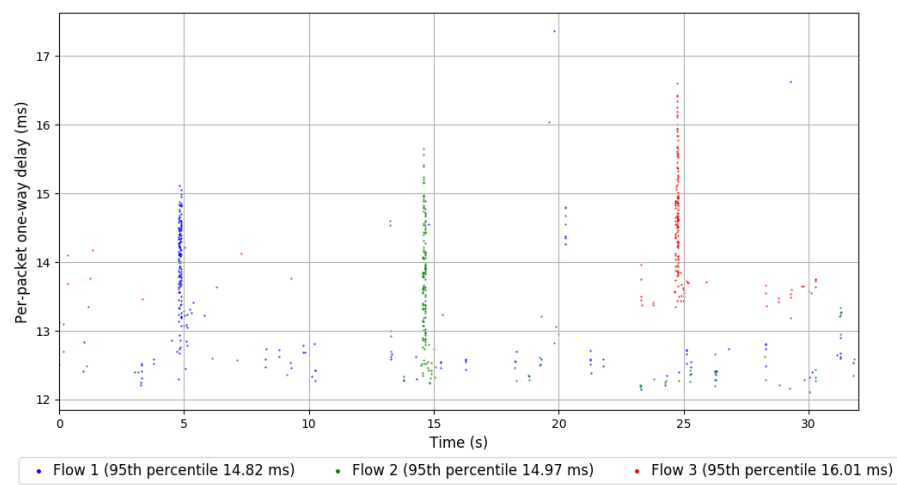
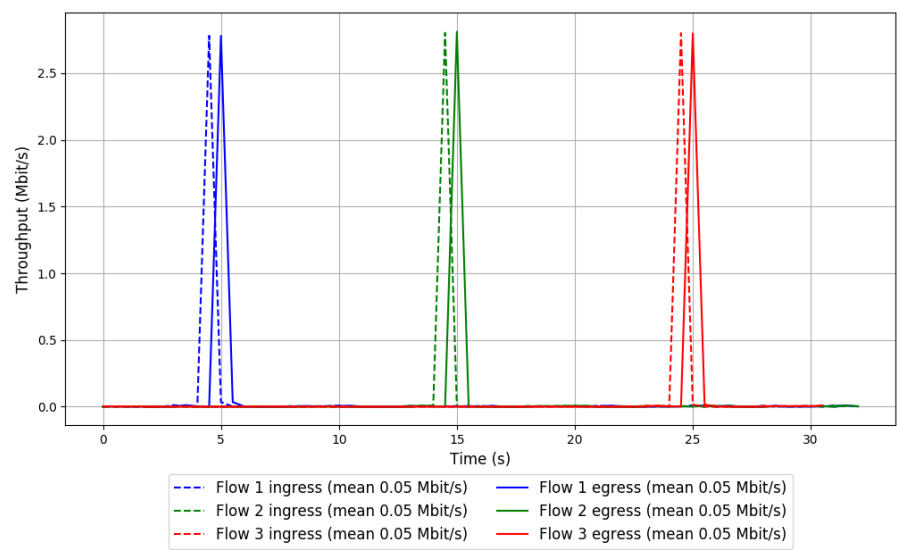
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 16.007 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-22 06:07:01

End at: 2018-05-22 06:07:31

Local clock offset: 0.817 ms

Remote clock offset: 5.072 ms

# Below is generated by plot.py at 2018-05-22 06:41:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 17.354 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 14.328 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 15.679 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 18.377 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

