

## Pantheon Report

Generated at 2018-05-24 12:48:01 (UTC).

Data path: AWS Korea Ethernet (*local*) → China ppp0 ppp0 (*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.

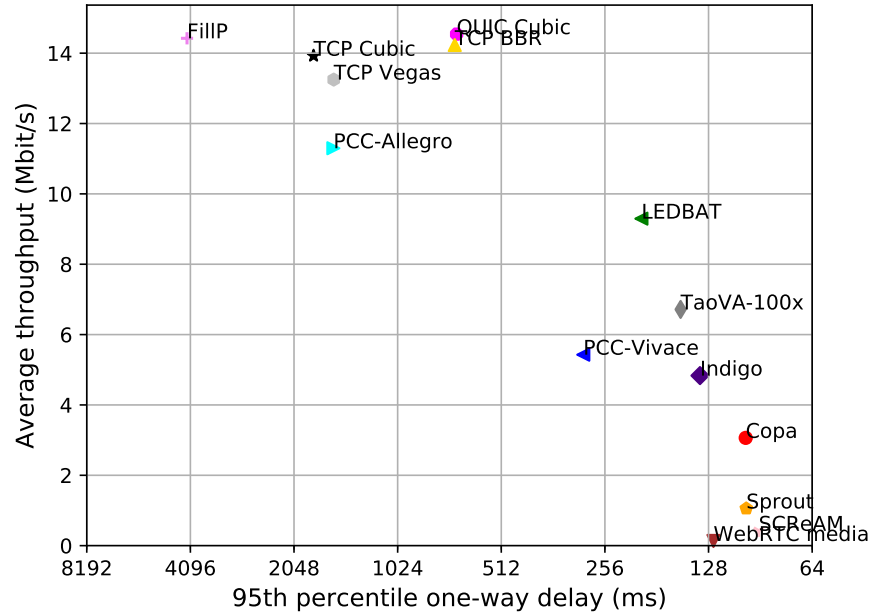
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

NTP offsets were measured against `ntp.nict.jp` and have been applied to correct the timestamps in logs.

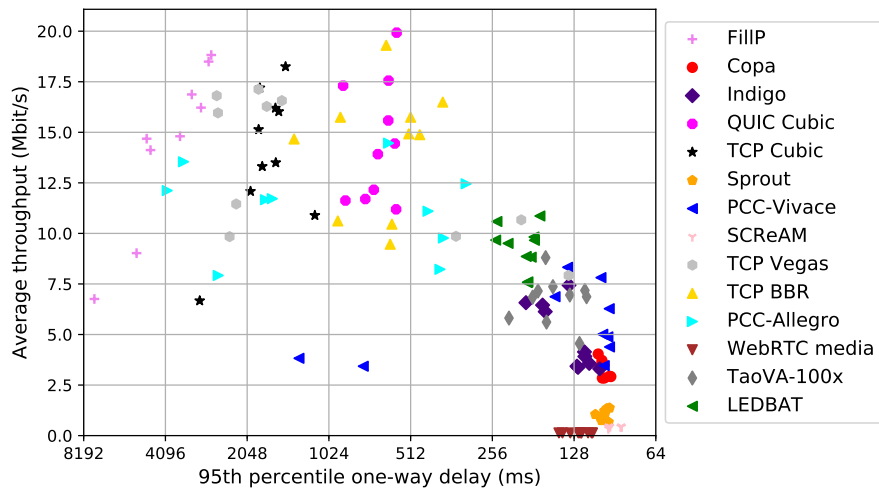
Git summary:

```
branch: master @ 0088822873ea99180f63545a341ef069f40efe59
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from AWS Korea to China ppp0, 10 runs of 30s each per scheme  
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS Korea to China ppp0, 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	10.76	3.21	4.21	629.81	662.11	845.76	1.11	2.31	6.04
Copa	10	1.63	1.48	1.70	98.96	99.20	103.80	0.68	1.27	1.40
TCP Cubic	10	11.65	3.50	0.33	1713.22	1936.03	1664.09	3.80	19.36	28.61
FillP	9	13.11	2.17	0.05	4206.62	4061.18	4005.90	46.22	49.50	90.13
Indigo	10	1.85	3.31	2.51	136.55	134.29	129.96	0.12	0.11	0.36
LEDBAT	10	6.48	3.57	1.34	193.39	209.81	218.59	0.38	0.62	1.79
PCC-Allegro	10	5.19	7.37	3.79	1294.65	1505.14	1434.21	4.90	7.27	16.70
PCC-Expr	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
QUIC Cubic	10	11.52	3.86	1.46	673.23	736.13	773.63	1.71	3.64	7.94
SCReAM	10	0.22	0.22	0.20	87.82	89.67	92.69	0.07	0.13	0.40
Sprout	10	0.50	0.54	0.61	99.26	98.89	98.50	0.17	0.15	0.15
TaoVA-100x	10	3.35	3.24	3.68	137.90	148.36	203.18	0.09	0.08	0.31
TCP Vegas	10	10.12	3.91	1.96	1501.78	1442.24	1397.94	2.55	6.02	22.97
Verus	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PCC-Vivace	10	2.62	2.42	3.63	293.25	285.11	197.04	0.10	0.12	0.30
WebRTC media	10	0.05	0.04	0.05	126.87	116.91	108.70	0.00	0.00	0.00

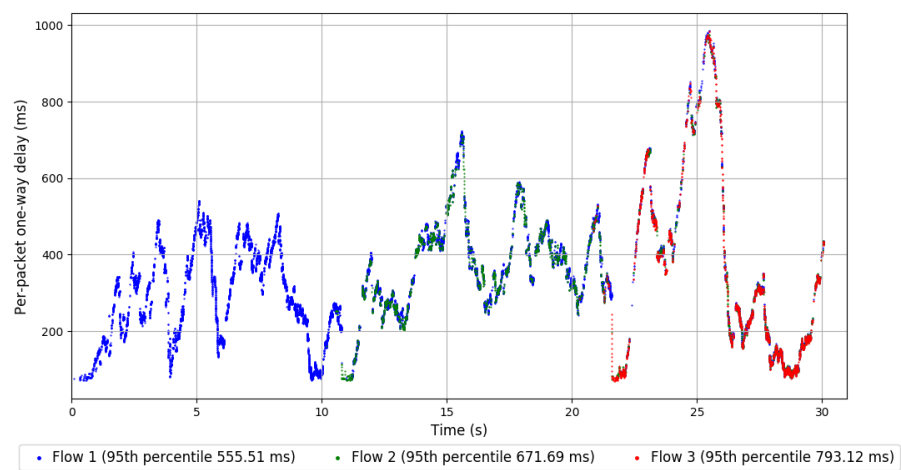
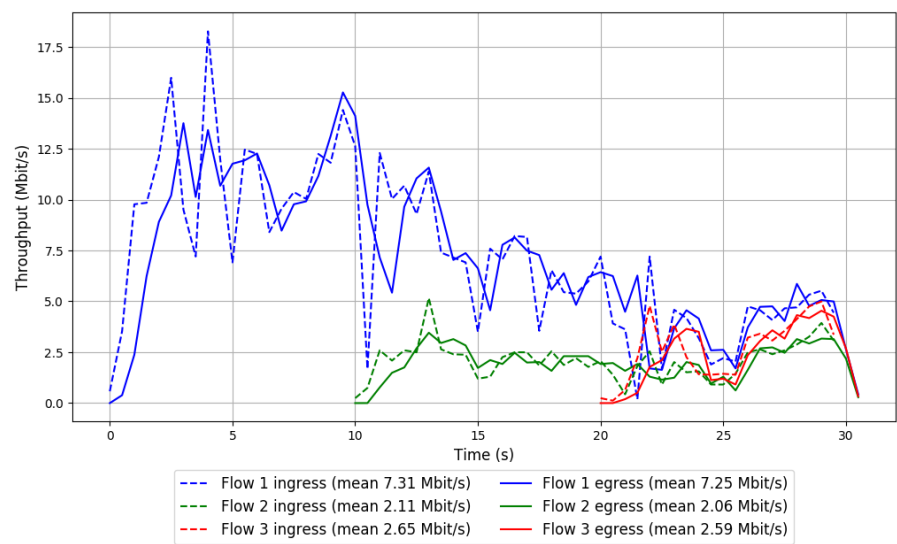
Run 1: Statistics of TCP BBR

Start at: 2018-05-24 09:32:17  
End at: 2018-05-24 09:32:47  
Local clock offset: -2.964 ms  
Remote clock offset: -1.894 ms

# Below is generated by plot.py at 2018-05-24 12:44:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 9.47 Mbit/s  
95th percentile per-packet one-way delay: 608.848 ms  
Loss rate: 1.27%  
-- Flow 1:  
Average throughput: 7.25 Mbit/s  
95th percentile per-packet one-way delay: 555.508 ms  
Loss rate: 0.71%  
-- Flow 2:  
Average throughput: 2.06 Mbit/s  
95th percentile per-packet one-way delay: 671.686 ms  
Loss rate: 2.45%  
-- Flow 3:  
Average throughput: 2.59 Mbit/s  
95th percentile per-packet one-way delay: 793.117 ms  
Loss rate: 4.09%



Run 1: Report of TCP BBR — Data Link

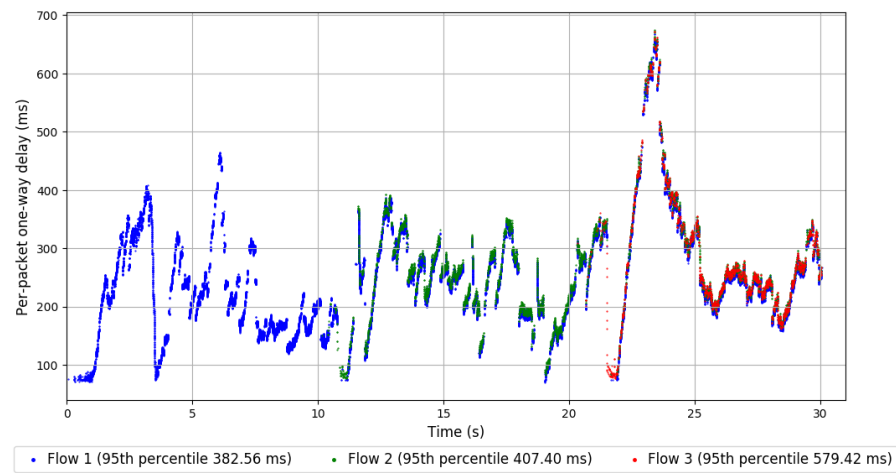
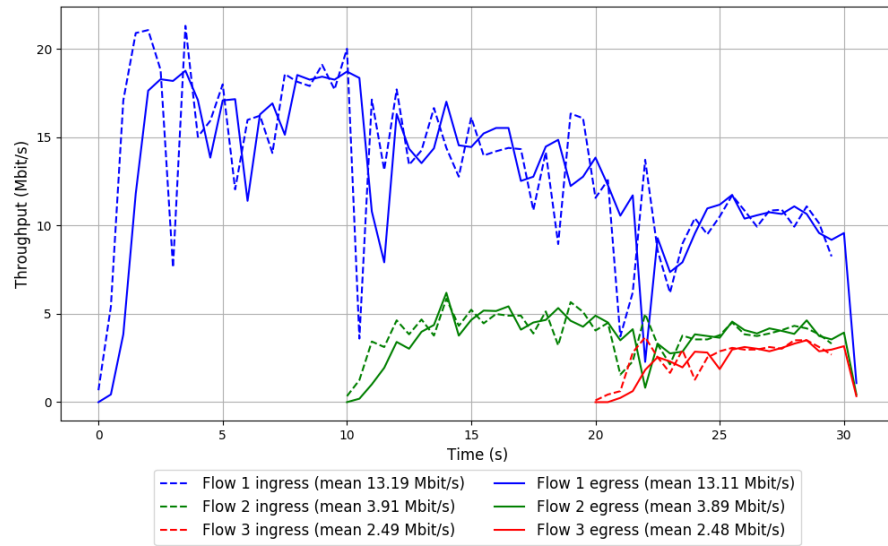


Run 2: Statistics of TCP BBR

Start at: 2018-05-24 09:53:17  
End at: 2018-05-24 09:53:47  
Local clock offset: 6.054 ms  
Remote clock offset: -0.998 ms

# Below is generated by plot.py at 2018-05-24 12:44:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 16.49 Mbit/s  
95th percentile per-packet one-way delay: 389.935 ms  
Loss rate: 0.63%  
-- Flow 1:  
Average throughput: 13.11 Mbit/s  
95th percentile per-packet one-way delay: 382.558 ms  
Loss rate: 0.50%  
-- Flow 2:  
Average throughput: 3.89 Mbit/s  
95th percentile per-packet one-way delay: 407.398 ms  
Loss rate: 0.77%  
-- Flow 3:  
Average throughput: 2.48 Mbit/s  
95th percentile per-packet one-way delay: 579.423 ms  
Loss rate: 2.33%

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

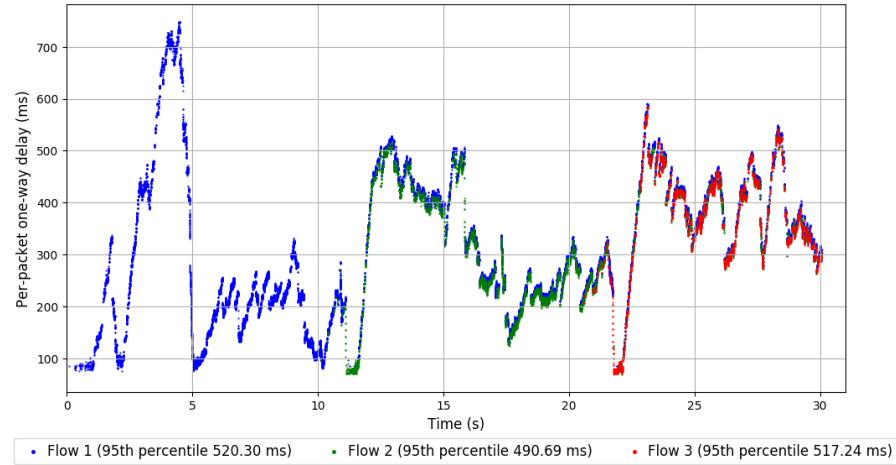
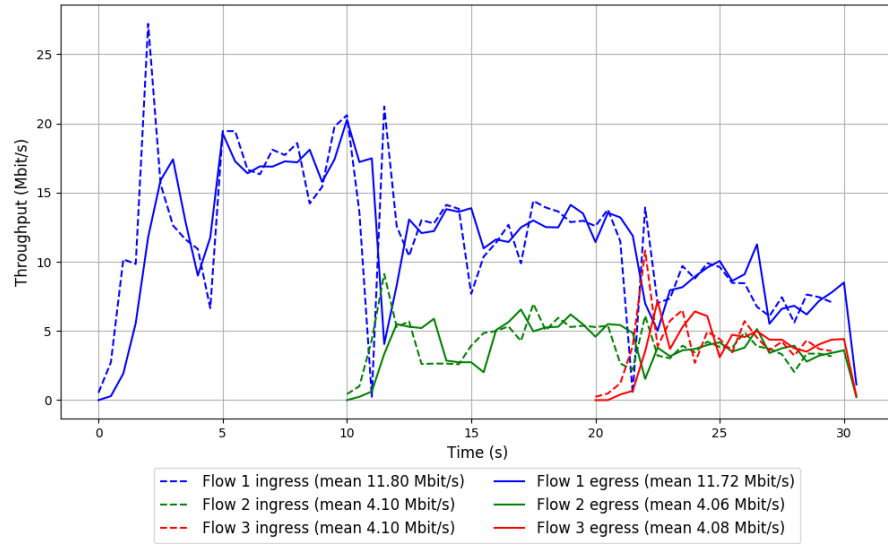


Run 3: Statistics of TCP BBR

Start at: 2018-05-24 10:14:17  
End at: 2018-05-24 10:14:47  
Local clock offset: -2.165 ms  
Remote clock offset: -0.766 ms

# Below is generated by plot.py at 2018-05-24 12:44:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 15.75 Mbit/s  
95th percentile per-packet one-way delay: 511.978 ms  
Loss rate: 0.59%  
-- Flow 1:  
Average throughput: 11.72 Mbit/s  
95th percentile per-packet one-way delay: 520.303 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 4.06 Mbit/s  
95th percentile per-packet one-way delay: 490.691 ms  
Loss rate: 0.78%  
-- Flow 3:  
Average throughput: 4.08 Mbit/s  
95th percentile per-packet one-way delay: 517.239 ms  
Loss rate: 1.75%

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



Run 4: Statistics of TCP BBR

Start at: 2018-05-24 10:35:19

End at: 2018-05-24 10:35:49

Local clock offset: 1.23 ms

Remote clock offset: 0.03 ms

# Below is generated by plot.py at 2018-05-24 12:44:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 14.92 Mbit/s

95th percentile per-packet one-way delay: 520.303 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 11.43 Mbit/s

95th percentile per-packet one-way delay: 546.012 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 3.24 Mbit/s

95th percentile per-packet one-way delay: 447.909 ms

Loss rate: 1.13%

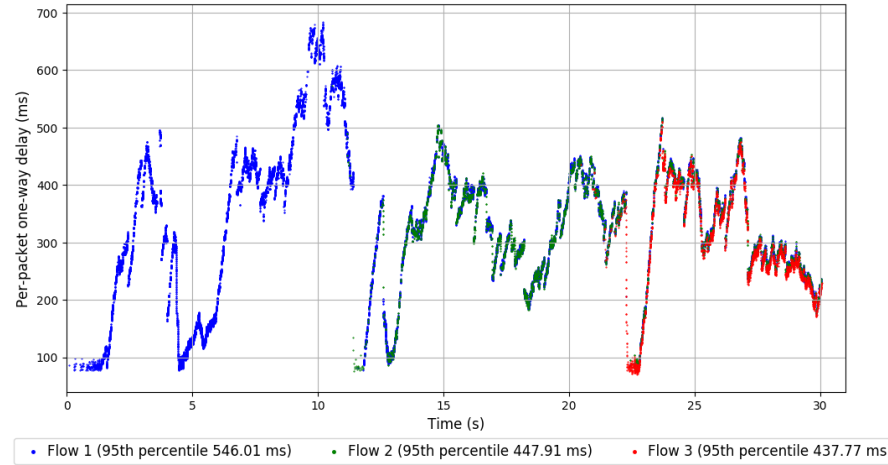
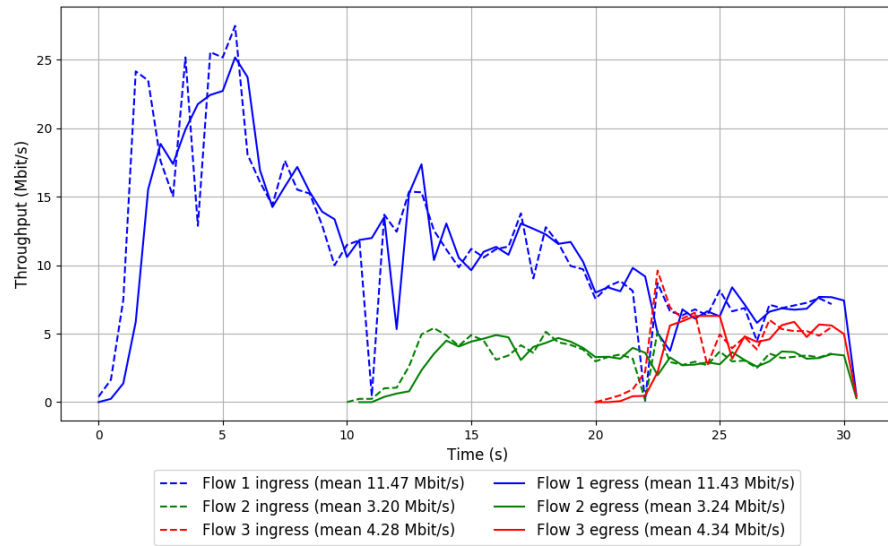
-- Flow 3:

Average throughput: 4.34 Mbit/s

95th percentile per-packet one-way delay: 437.770 ms

Loss rate: 2.22%

# Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-05-24 10:56:22

End at: 2018-05-24 10:56:52

Local clock offset: 4.667 ms

Remote clock offset: 5.816 ms

# Below is generated by plot.py at 2018-05-24 12:44:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 19.30 Mbit/s

95th percentile per-packet one-way delay: 629.877 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 16.25 Mbit/s

95th percentile per-packet one-way delay: 682.164 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 578.912 ms

Loss rate: 1.29%

-- Flow 3:

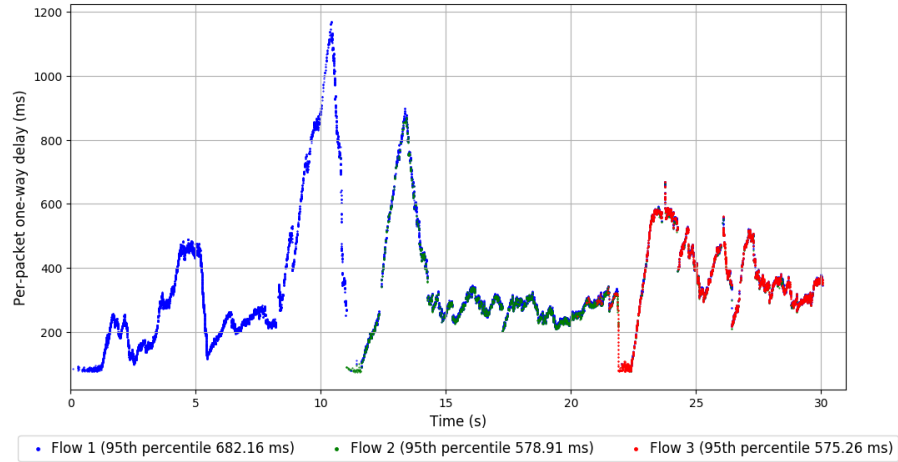
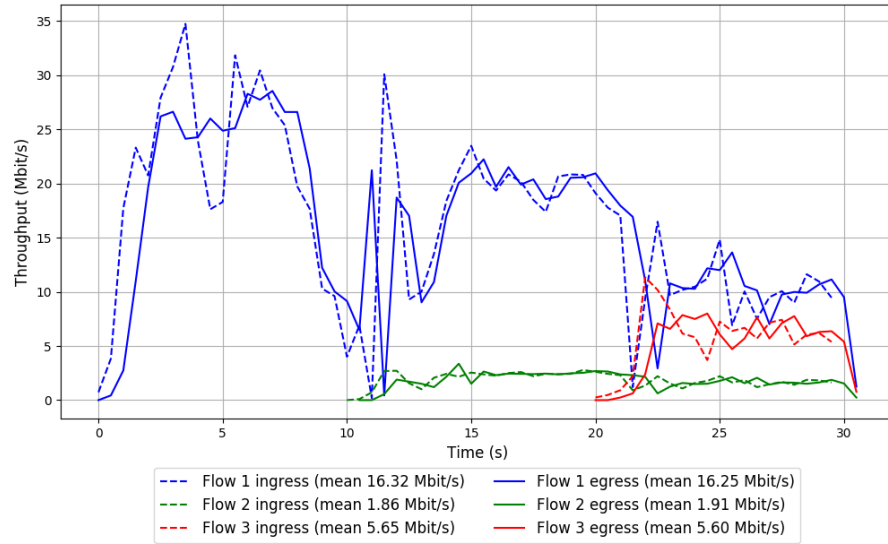
Average throughput: 5.60 Mbit/s

95th percentile per-packet one-way delay: 575.257 ms

Loss rate: 2.73%



# Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-05-24 11:17:23

End at: 2018-05-24 11:17:53

Local clock offset: 3.582 ms

Remote clock offset: 10.35 ms

# Below is generated by plot.py at 2018-05-24 12:44:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 14.67 Mbit/s

95th percentile per-packet one-way delay: 1375.642 ms

Loss rate: 7.61%

-- Flow 1:

Average throughput: 8.72 Mbit/s

95th percentile per-packet one-way delay: 755.641 ms

Loss rate: 3.25%

-- Flow 2:

Average throughput: 5.12 Mbit/s

95th percentile per-packet one-way delay: 927.765 ms

Loss rate: 8.13%

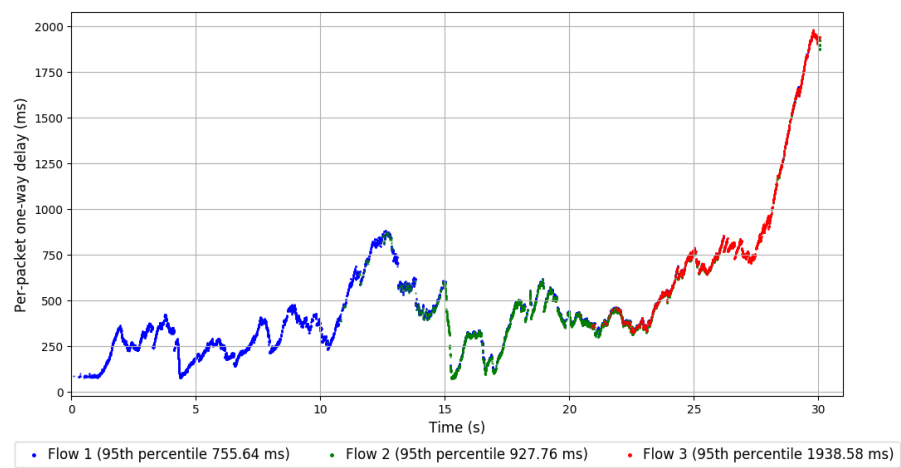
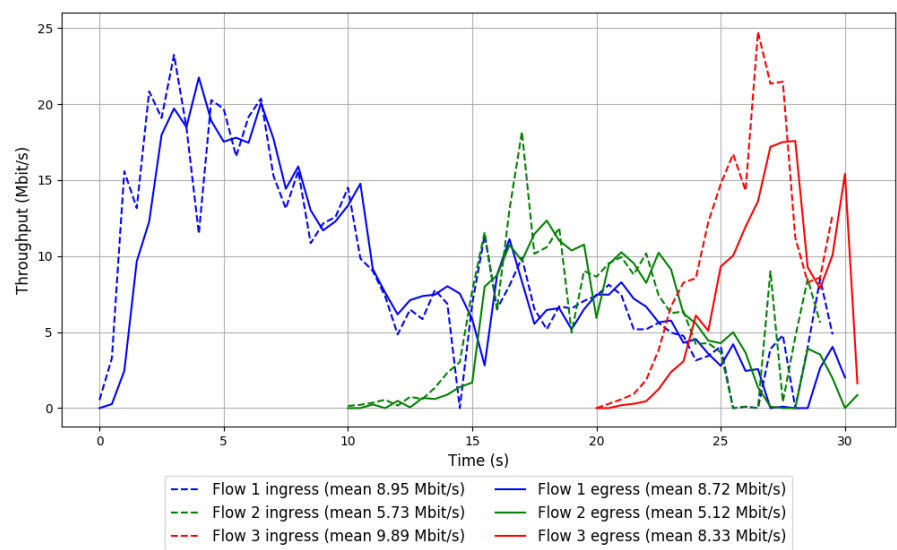
-- Flow 3:

Average throughput: 8.33 Mbit/s

95th percentile per-packet one-way delay: 1938.578 ms

Loss rate: 18.81%

Run 6: Report of TCP BBR — Data Link

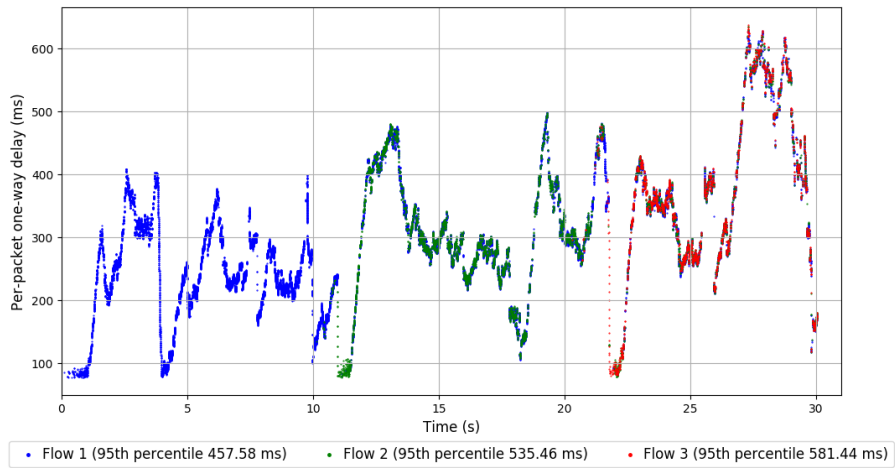
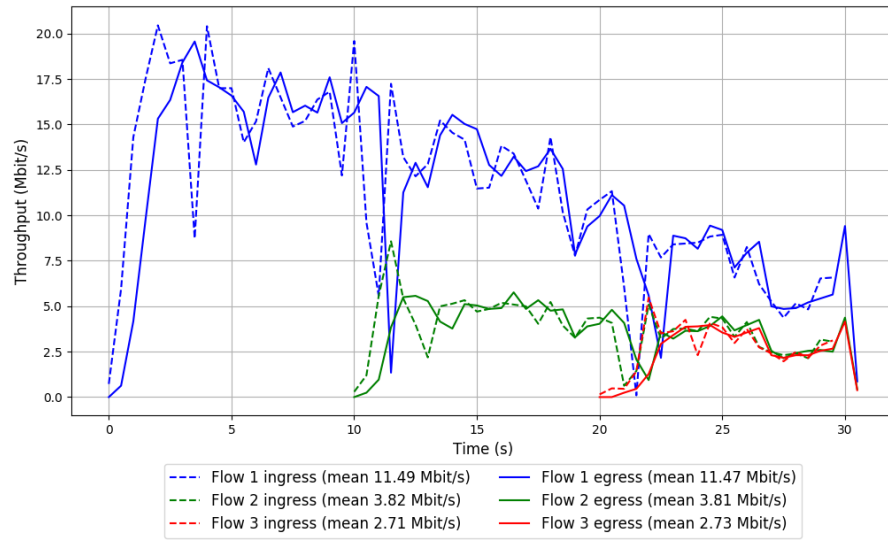


Run 7: Statistics of TCP BBR

Start at: 2018-05-24 11:38:26  
End at: 2018-05-24 11:38:56  
Local clock offset: 3.136 ms  
Remote clock offset: 13.425 ms

# Below is generated by plot.py at 2018-05-24 12:44:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 14.88 Mbit/s  
95th percentile per-packet one-way delay: 473.823 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 11.47 Mbit/s  
95th percentile per-packet one-way delay: 457.580 ms  
Loss rate: 0.30%  
-- Flow 2:  
Average throughput: 3.81 Mbit/s  
95th percentile per-packet one-way delay: 535.461 ms  
Loss rate: 0.69%  
-- Flow 3:  
Average throughput: 2.73 Mbit/s  
95th percentile per-packet one-way delay: 581.438 ms  
Loss rate: 1.78%

# Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-05-24 11:59:35

End at: 2018-05-24 12:00:05

Local clock offset: 3.244 ms

Remote clock offset: 7.69 ms

# Below is generated by plot.py at 2018-05-24 12:44:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 15.75 Mbit/s

95th percentile per-packet one-way delay: 928.697 ms

Loss rate: 5.26%

-- Flow 1:

Average throughput: 11.93 Mbit/s

95th percentile per-packet one-way delay: 879.049 ms

Loss rate: 4.17%

-- Flow 2:

Average throughput: 4.92 Mbit/s

95th percentile per-packet one-way delay: 983.585 ms

Loss rate: 5.82%

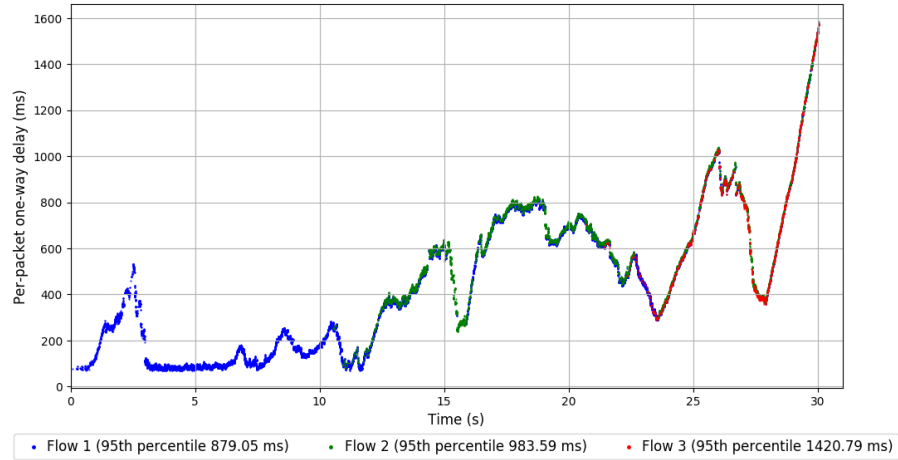
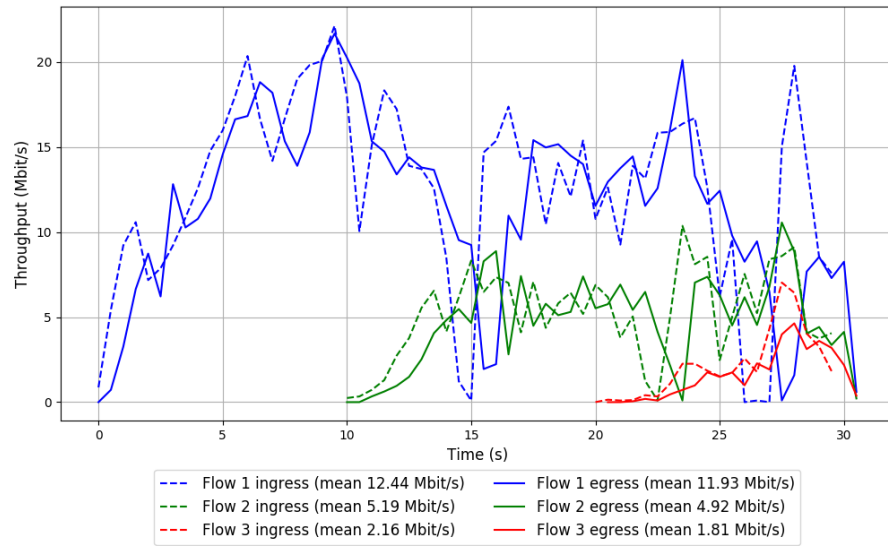
-- Flow 3:

Average throughput: 1.81 Mbit/s

95th percentile per-packet one-way delay: 1420.793 ms

Loss rate: 21.53%

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



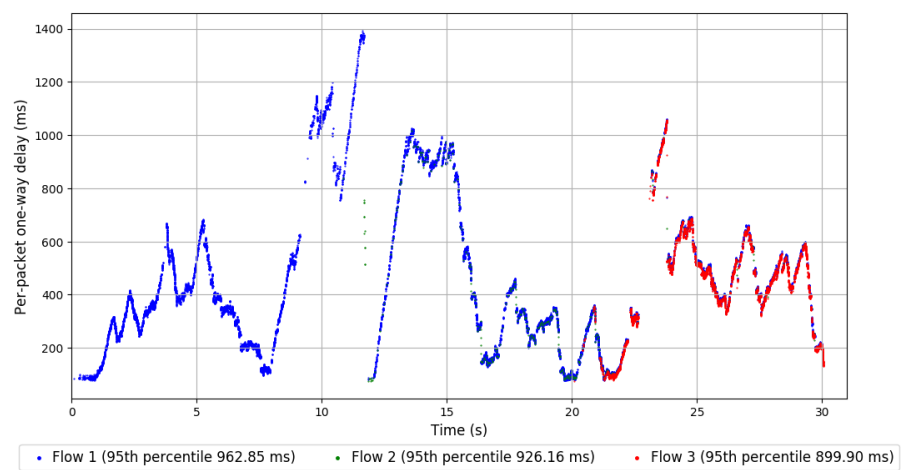
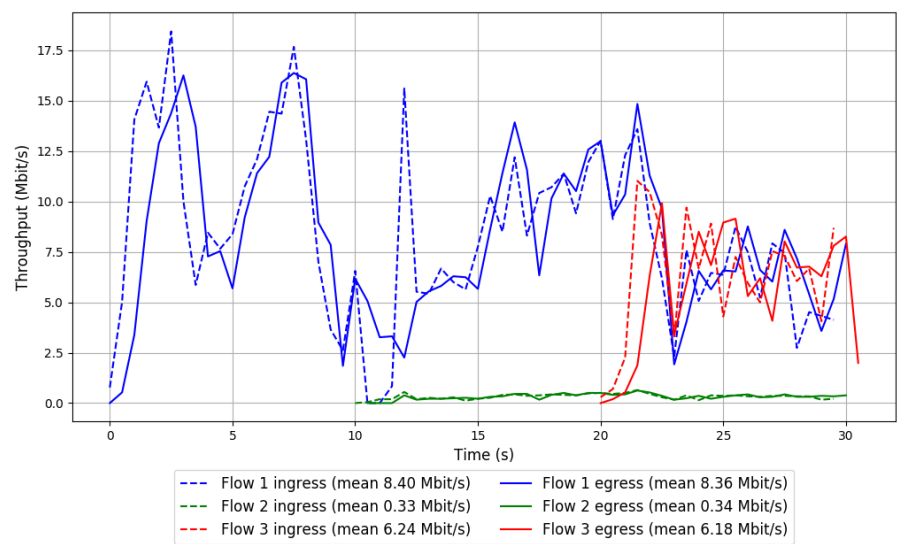
Run 9: Statistics of TCP BBR

Start at: 2018-05-24 12:20:39  
End at: 2018-05-24 12:21:09  
Local clock offset: 3.706 ms  
Remote clock offset: -2.458 ms

# Below is generated by plot.py at 2018-05-24 12:44:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 10.62 Mbit/s  
95th percentile per-packet one-way delay: 949.675 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 8.36 Mbit/s  
95th percentile per-packet one-way delay: 962.851 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.34 Mbit/s  
95th percentile per-packet one-way delay: 926.162 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 6.18 Mbit/s  
95th percentile per-packet one-way delay: 899.903 ms  
Loss rate: 1.10%



Run 9: Report of TCP BBR — Data Link

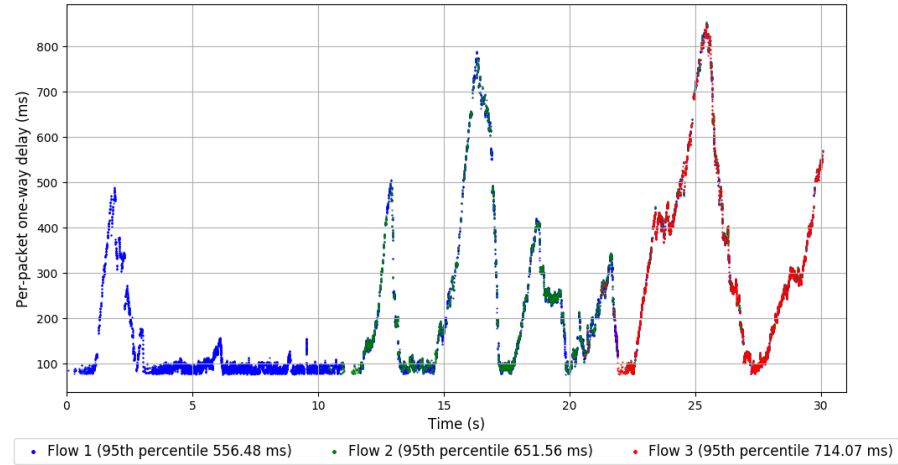
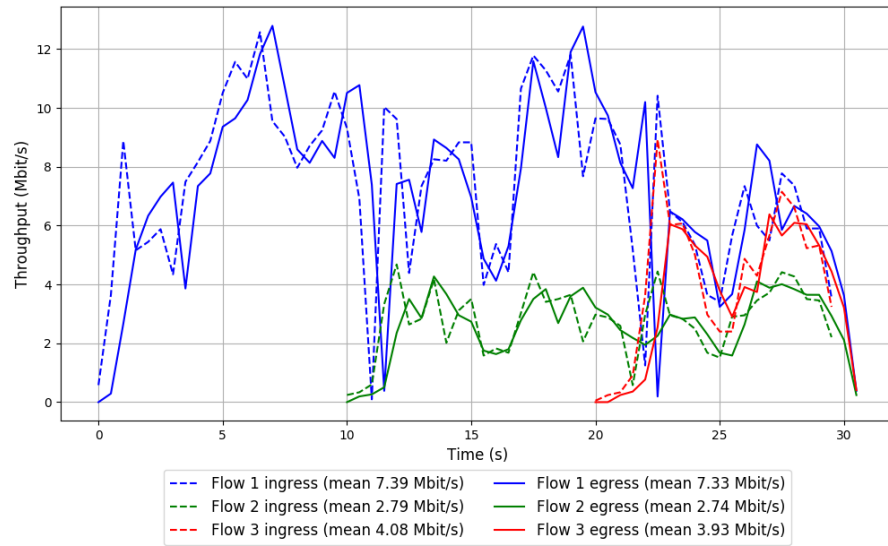


Run 10: Statistics of TCP BBR

Start at: 2018-05-24 12:41:39  
End at: 2018-05-24 12:42:09  
Local clock offset: 2.704 ms  
Remote clock offset: -5.929 ms

# Below is generated by plot.py at 2018-05-24 12:44:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 10.46 Mbit/s  
95th percentile per-packet one-way delay: 600.106 ms  
Loss rate: 1.47%  
-- Flow 1:  
Average throughput: 7.33 Mbit/s  
95th percentile per-packet one-way delay: 556.483 ms  
Loss rate: 0.84%  
-- Flow 2:  
Average throughput: 2.74 Mbit/s  
95th percentile per-packet one-way delay: 651.562 ms  
Loss rate: 2.07%  
-- Flow 3:  
Average throughput: 3.93 Mbit/s  
95th percentile per-packet one-way delay: 714.069 ms  
Loss rate: 4.10%

# Run 10: Report of TCP BBR — Data Link

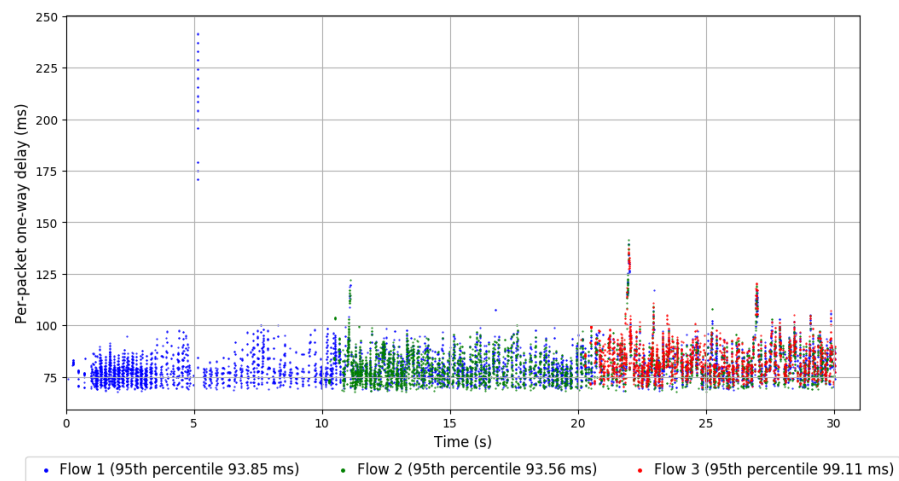
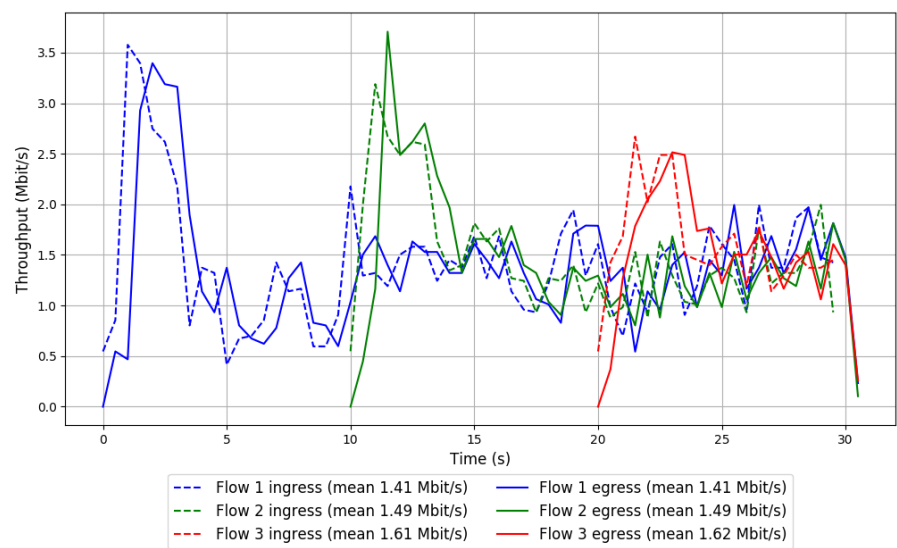


Run 1: Statistics of Copa

Start at: 2018-05-24 09:25:44  
End at: 2018-05-24 09:26:14  
Local clock offset: -10.539 ms  
Remote clock offset: -1.245 ms

# Below is generated by plot.py at 2018-05-24 12:44:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.94 Mbit/s  
95th percentile per-packet one-way delay: 94.704 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.41 Mbit/s  
95th percentile per-packet one-way delay: 93.852 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.49 Mbit/s  
95th percentile per-packet one-way delay: 93.565 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 1.62 Mbit/s  
95th percentile per-packet one-way delay: 99.110 ms  
Loss rate: 0.00%

Run 1: Report of Copa — Data Link

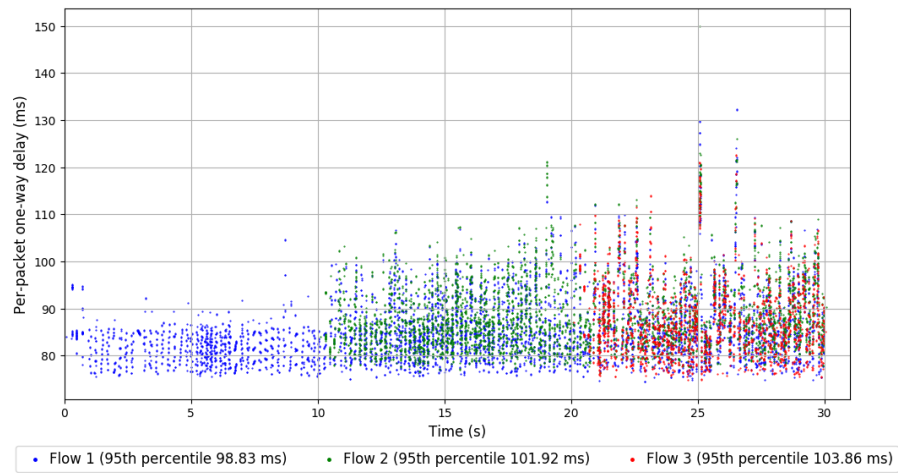
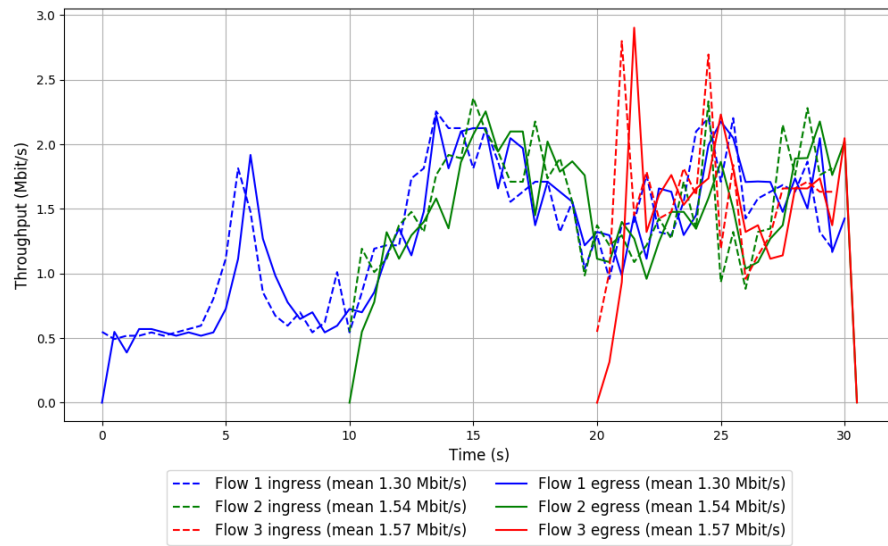


Run 2: Statistics of Copa

Start at: 2018-05-24 09:46:43  
End at: 2018-05-24 09:47:13  
Local clock offset: 4.385 ms  
Remote clock offset: -1.189 ms

# Below is generated by plot.py at 2018-05-24 12:44:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.85 Mbit/s  
95th percentile per-packet one-way delay: 100.741 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 1.30 Mbit/s  
95th percentile per-packet one-way delay: 98.829 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 1.54 Mbit/s  
95th percentile per-packet one-way delay: 101.922 ms  
Loss rate: 0.29%  
-- Flow 3:  
Average throughput: 1.57 Mbit/s  
95th percentile per-packet one-way delay: 103.857 ms  
Loss rate: 0.32%

## Run 2: Report of Copa — Data Link



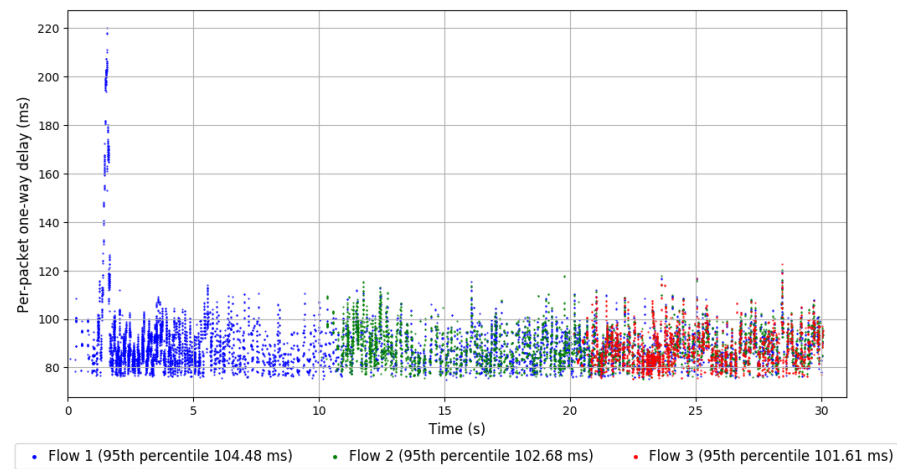
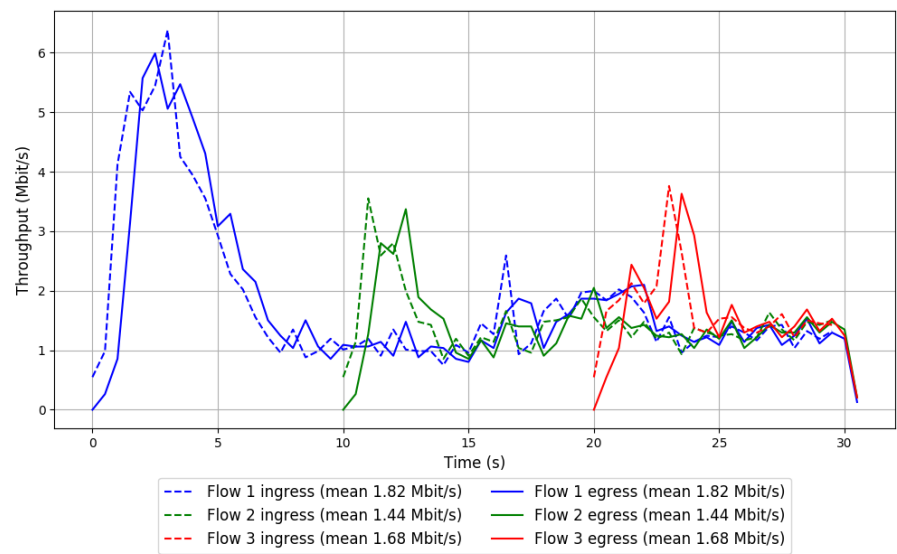
Run 3: Statistics of Copa

Start at: 2018-05-24 10:07:43  
End at: 2018-05-24 10:08:13  
Local clock offset: -0.799 ms  
Remote clock offset: -1.064 ms

# Below is generated by plot.py at 2018-05-24 12:44:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.33 Mbit/s  
95th percentile per-packet one-way delay: 103.283 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 1.82 Mbit/s  
95th percentile per-packet one-way delay: 104.482 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 1.44 Mbit/s  
95th percentile per-packet one-way delay: 102.678 ms  
Loss rate: 0.18%  
-- Flow 3:  
Average throughput: 1.68 Mbit/s  
95th percentile per-packet one-way delay: 101.607 ms  
Loss rate: 0.31%



Run 3: Report of Copa — Data Link

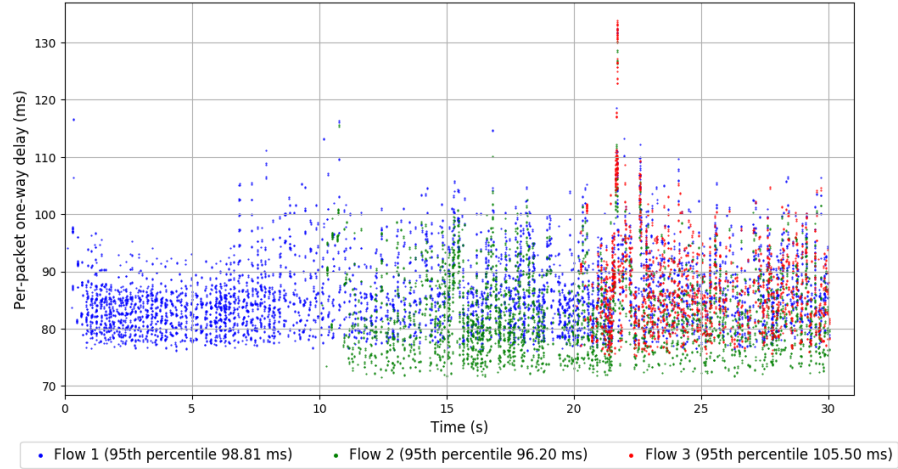
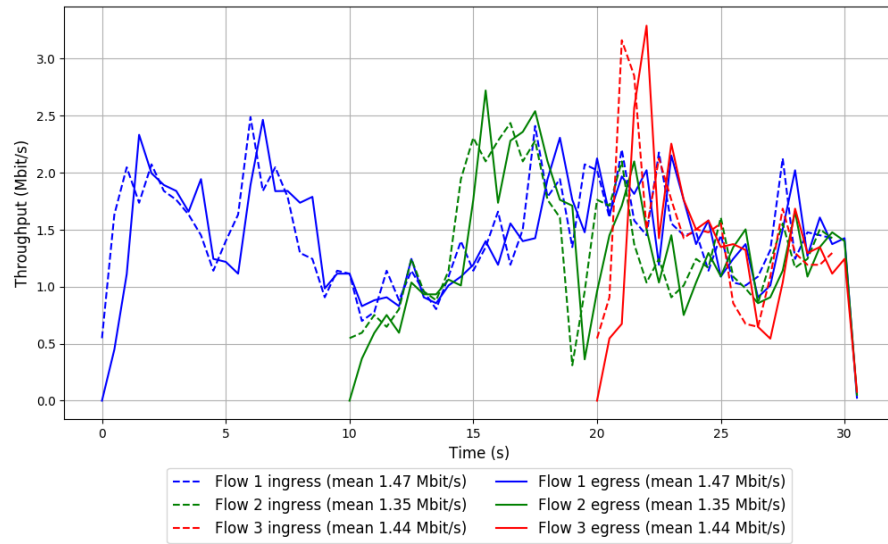


Run 4: Statistics of Copa

Start at: 2018-05-24 10:28:45  
End at: 2018-05-24 10:29:15  
Local clock offset: -1.085 ms  
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2018-05-24 12:44:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.85 Mbit/s  
95th percentile per-packet one-way delay: 98.982 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 1.47 Mbit/s  
95th percentile per-packet one-way delay: 98.812 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 1.35 Mbit/s  
95th percentile per-packet one-way delay: 96.204 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 1.44 Mbit/s  
95th percentile per-packet one-way delay: 105.498 ms  
Loss rate: 0.36%

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



Run 5: Statistics of Copa

Start at: 2018-05-24 10:49:47

End at: 2018-05-24 10:50:17

Local clock offset: 3.953 ms

Remote clock offset: 2.951 ms

# Below is generated by plot.py at 2018-05-24 12:44:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.04 Mbit/s

95th percentile per-packet one-way delay: 104.339 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 96.589 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.60 Mbit/s

95th percentile per-packet one-way delay: 98.756 ms

Loss rate: 0.08%

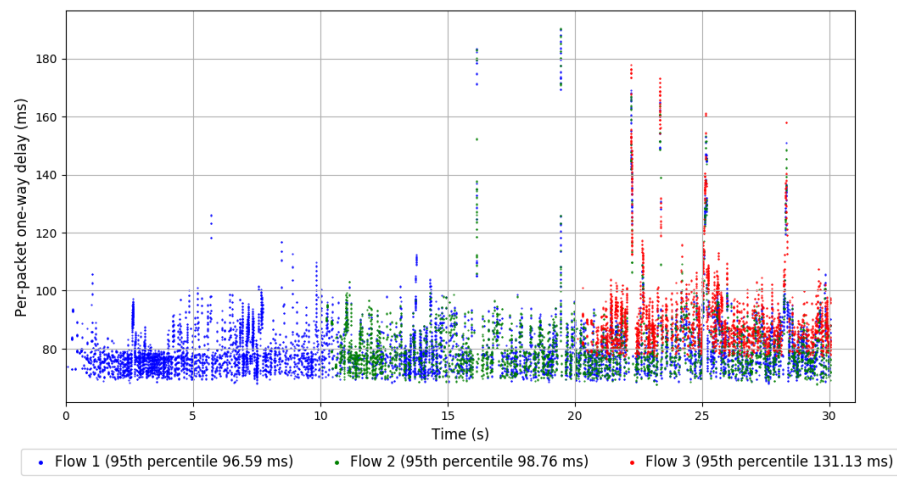
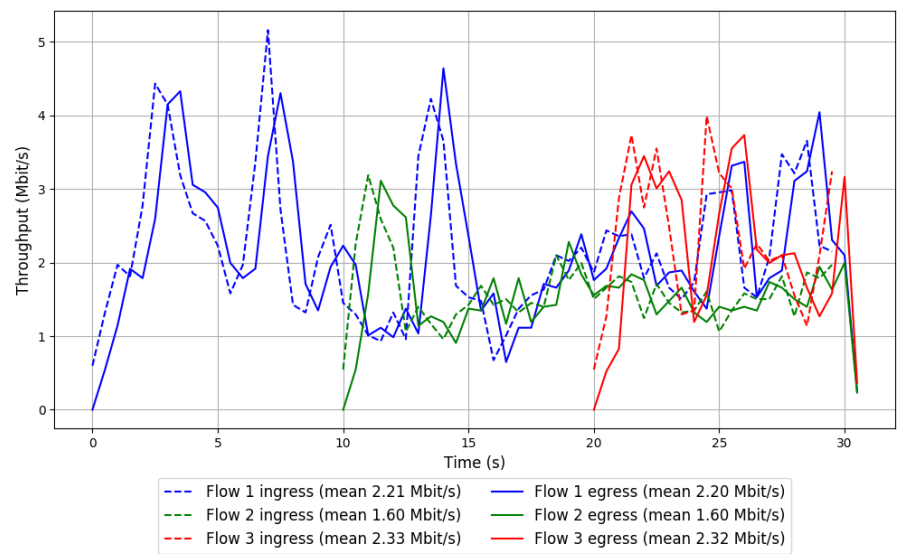
-- Flow 3:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 131.127 ms

Loss rate: 0.67%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-05-24 11:10:49

End at: 2018-05-24 11:11:19

Local clock offset: 3.357 ms

Remote clock offset: 9.409 ms

# Below is generated by plot.py at 2018-05-24 12:44:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.50 Mbit/s

95th percentile per-packet one-way delay: 99.282 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 98.335 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 1.57 Mbit/s

95th percentile per-packet one-way delay: 100.079 ms

Loss rate: 0.08%

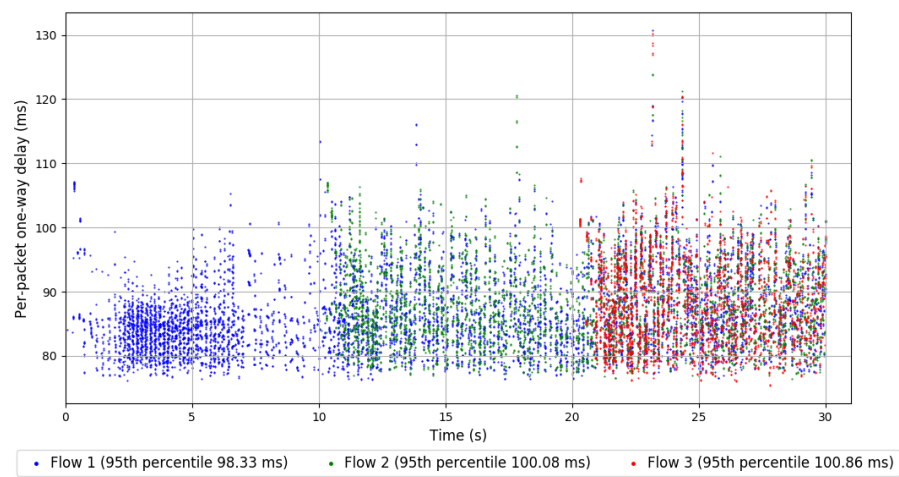
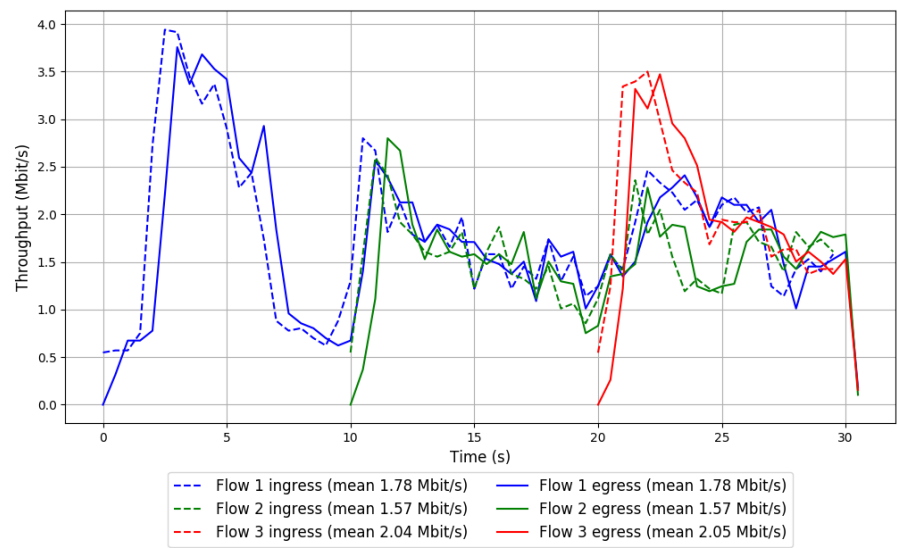
-- Flow 3:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 100.861 ms

Loss rate: 0.13%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-05-24 11:31:52

End at: 2018-05-24 11:32:22

Local clock offset: 3.36 ms

Remote clock offset: 12.64 ms

# Below is generated by plot.py at 2018-05-24 12:44:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.91 Mbit/s

95th percentile per-packet one-way delay: 101.081 ms

Loss rate: 6.98%

-- Flow 1:

Average throughput: 0.80 Mbit/s

95th percentile per-packet one-way delay: 96.888 ms

Loss rate: 6.27%

-- Flow 2:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 109.447 ms

Loss rate: 11.69%

-- Flow 3:

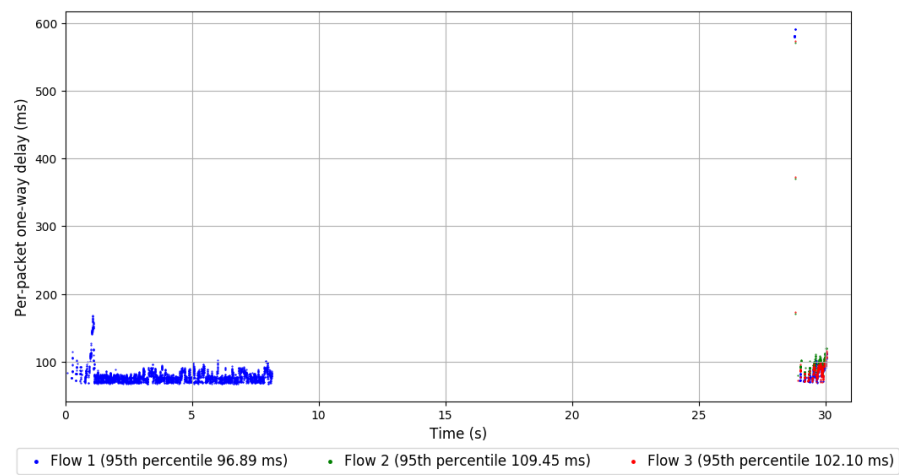
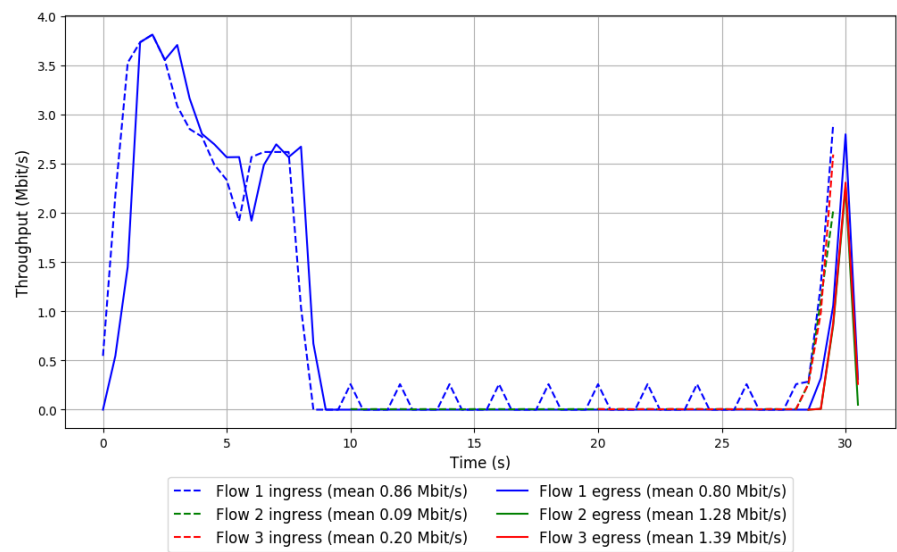
Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 102.103 ms

Loss rate: 11.98%



Run 7: Report of Copa — Data Link

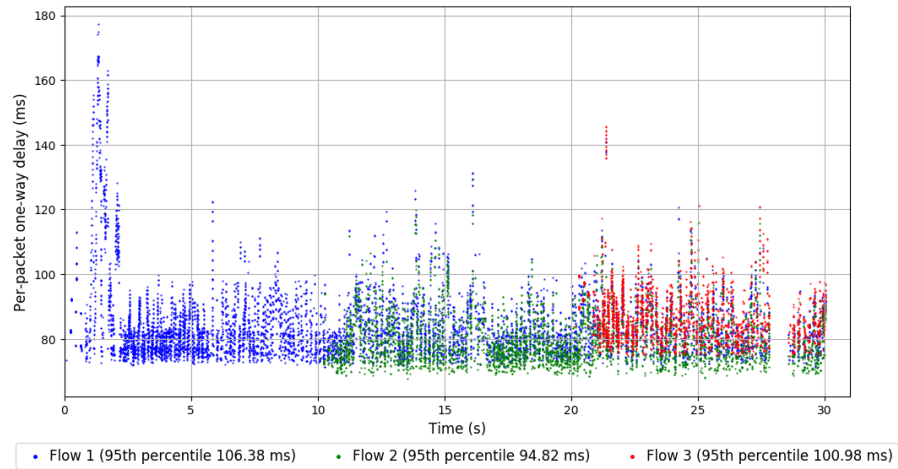
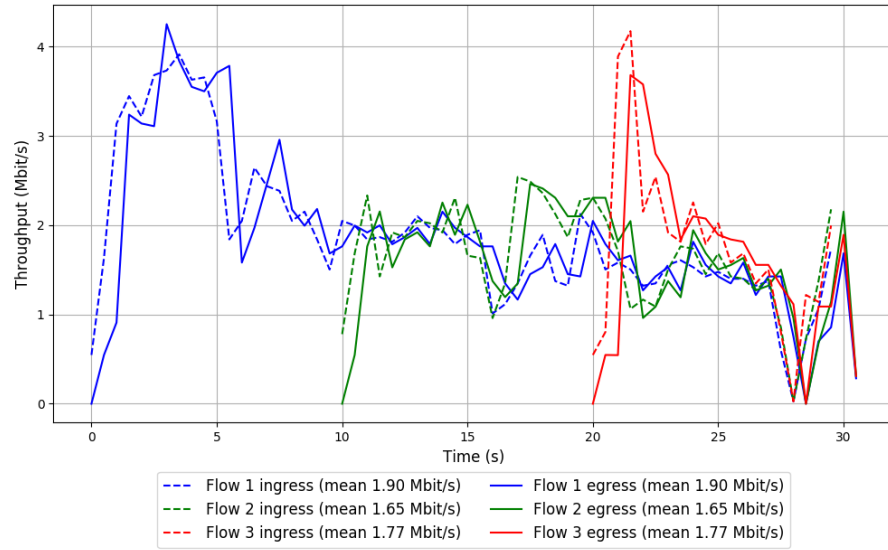


Run 8: Statistics of Copa

Start at: 2018-05-24 11:52:54  
End at: 2018-05-24 11:53:24  
Local clock offset: 3.357 ms  
Remote clock offset: 15.349 ms

```
# Below is generated by plot.py at 2018-05-24 12:44:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.59 Mbit/s
95th percentile per-packet one-way delay: 101.024 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 106.383 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 1.65 Mbit/s
95th percentile per-packet one-way delay: 94.818 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 1.77 Mbit/s
95th percentile per-packet one-way delay: 100.983 ms
Loss rate: 0.00%
```

## Run 8: Report of Copa — Data Link

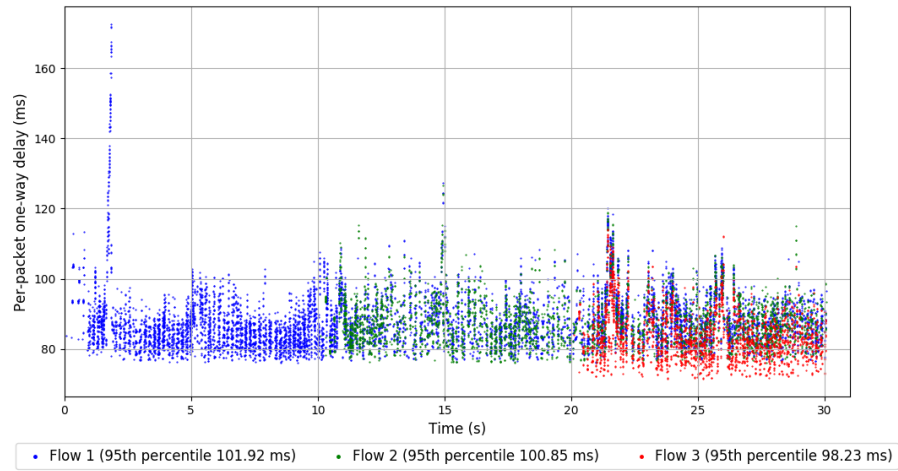
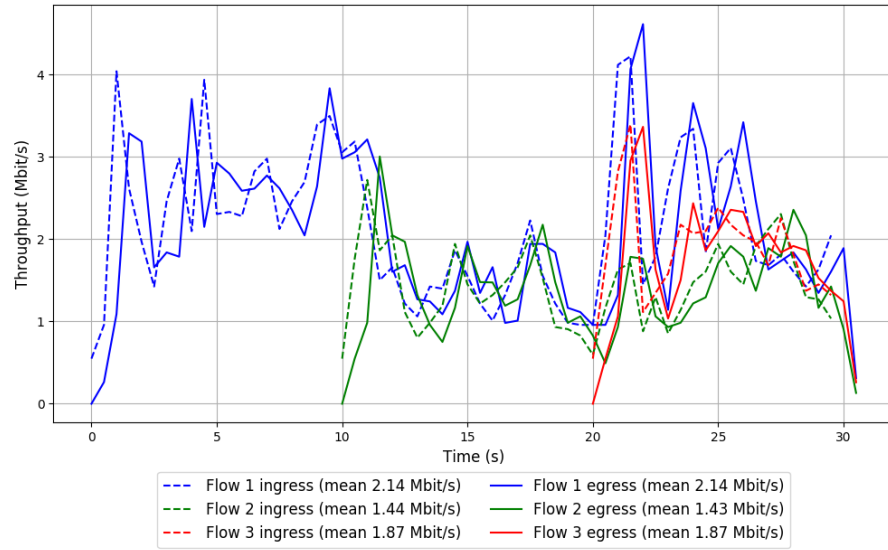


Run 9: Statistics of Copa

Start at: 2018-05-24 12:14:06  
End at: 2018-05-24 12:14:36  
Local clock offset: 3.782 ms  
Remote clock offset: -0.743 ms

# Below is generated by plot.py at 2018-05-24 12:44:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.72 Mbit/s  
95th percentile per-packet one-way delay: 101.075 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 2.14 Mbit/s  
95th percentile per-packet one-way delay: 101.920 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 1.43 Mbit/s  
95th percentile per-packet one-way delay: 100.850 ms  
Loss rate: 0.22%  
-- Flow 3:  
Average throughput: 1.87 Mbit/s  
95th percentile per-packet one-way delay: 98.229 ms  
Loss rate: 0.27%

## Run 9: Report of Copa — Data Link

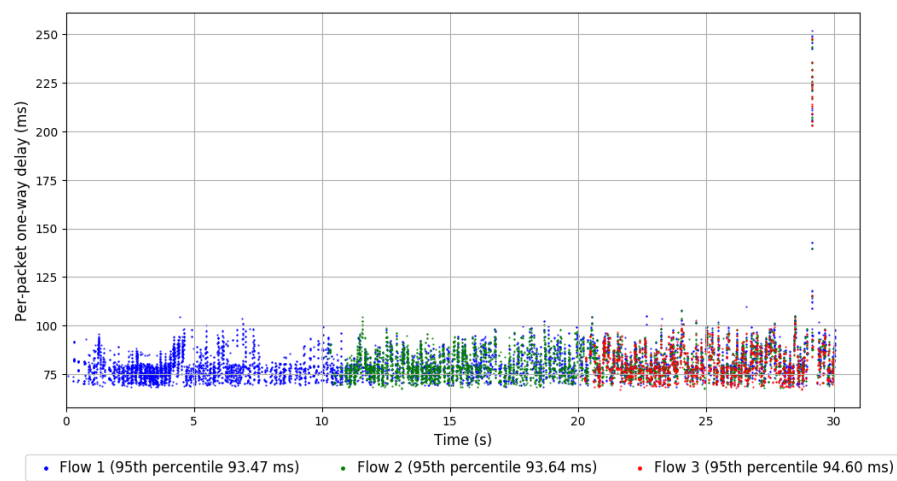
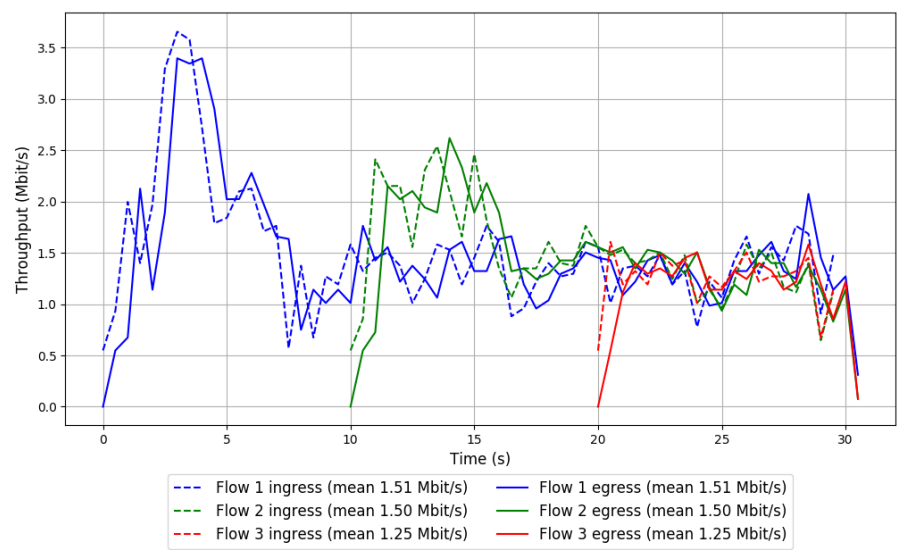


Run 10: Statistics of Copa

Start at: 2018-05-24 12:35:05  
End at: 2018-05-24 12:35:35  
Local clock offset: 2.76 ms  
Remote clock offset: -4.897 ms

# Below is generated by plot.py at 2018-05-24 12:44:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.92 Mbit/s  
95th percentile per-packet one-way delay: 93.722 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.51 Mbit/s  
95th percentile per-packet one-way delay: 93.470 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.50 Mbit/s  
95th percentile per-packet one-way delay: 93.641 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 1.25 Mbit/s  
95th percentile per-packet one-way delay: 94.602 ms  
Loss rate: 0.00%

Run 10: Report of Copa — Data Link



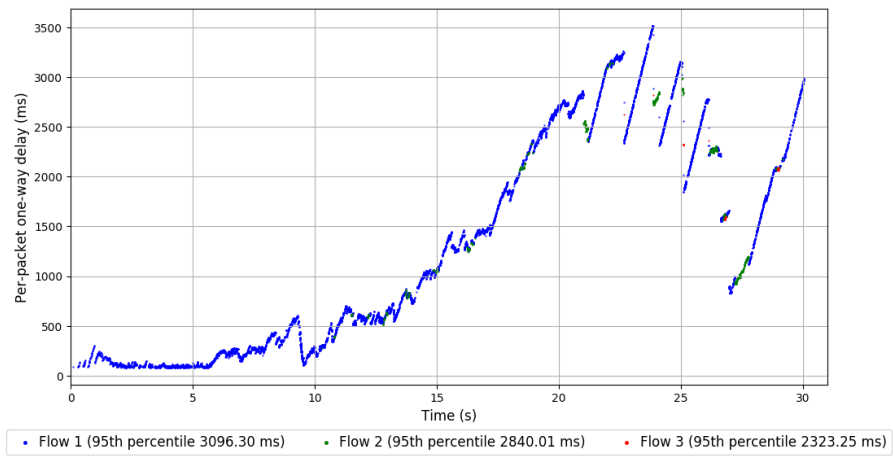
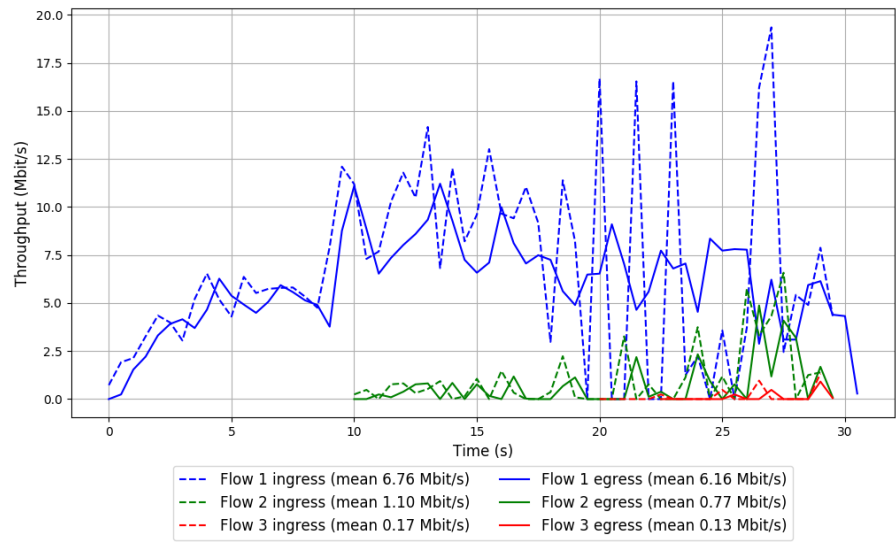
Run 1: Statistics of TCP Cubic

Start at: 2018-05-24 09:33:36  
End at: 2018-05-24 09:34:06  
Local clock offset: -1.878 ms  
Remote clock offset: -1.942 ms

# Below is generated by plot.py at 2018-05-24 12:44:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 6.67 Mbit/s  
95th percentile per-packet one-way delay: 3063.009 ms  
Loss rate: 11.36%  
-- Flow 1:  
Average throughput: 6.16 Mbit/s  
95th percentile per-packet one-way delay: 3096.300 ms  
Loss rate: 8.97%  
-- Flow 2:  
Average throughput: 0.77 Mbit/s  
95th percentile per-packet one-way delay: 2840.014 ms  
Loss rate: 31.89%  
-- Flow 3:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 2323.248 ms  
Loss rate: 43.94%



# Run 1: Report of TCP Cubic — Data Link

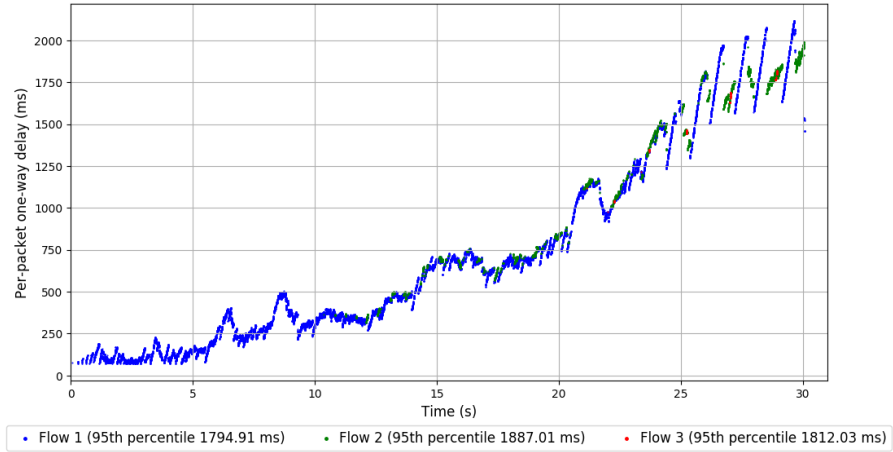
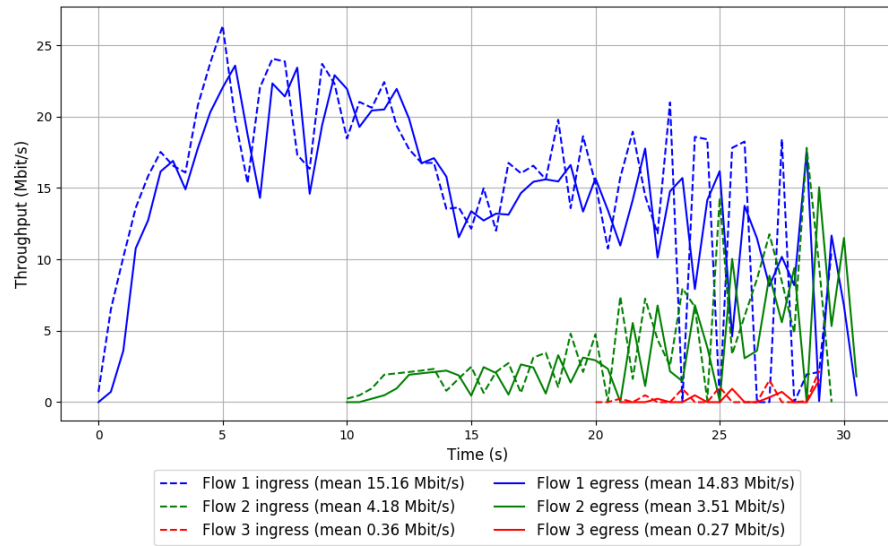


Run 2: Statistics of TCP Cubic

Start at: 2018-05-24 09:54:36  
End at: 2018-05-24 09:55:06  
Local clock offset: 6.478 ms  
Remote clock offset: -1.037 ms

# Below is generated by plot.py at 2018-05-24 12:44:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 17.20 Mbit/s  
95th percentile per-packet one-way delay: 1839.014 ms  
Loss rate: 4.07%  
-- Flow 1:  
Average throughput: 14.83 Mbit/s  
95th percentile per-packet one-way delay: 1794.910 ms  
Loss rate: 1.57%  
-- Flow 2:  
Average throughput: 3.51 Mbit/s  
95th percentile per-packet one-way delay: 1887.010 ms  
Loss rate: 16.54%  
-- Flow 3:  
Average throughput: 0.27 Mbit/s  
95th percentile per-packet one-way delay: 1812.033 ms  
Loss rate: 34.89%

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

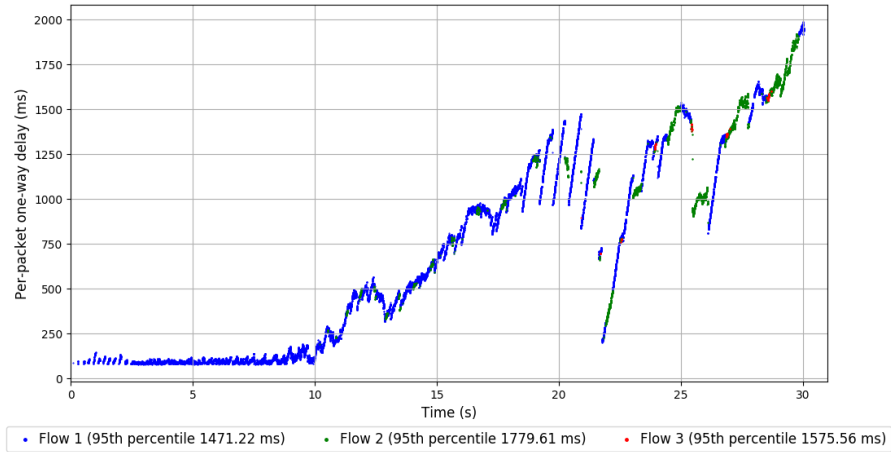
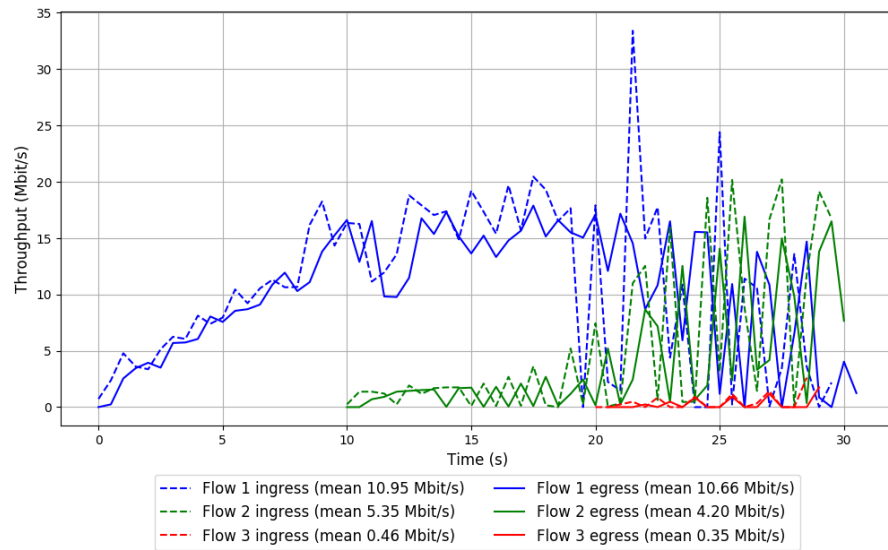


Run 3: Statistics of TCP Cubic

Start at: 2018-05-24 10:15:37  
End at: 2018-05-24 10:16:07  
Local clock offset: -2.242 ms  
Remote clock offset: -0.681 ms

# Below is generated by plot.py at 2018-05-24 12:44:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 13.50 Mbit/s  
95th percentile per-packet one-way delay: 1606.762 ms  
Loss rate: 7.74%  
-- Flow 1:  
Average throughput: 10.66 Mbit/s  
95th percentile per-packet one-way delay: 1471.222 ms  
Loss rate: 2.67%  
-- Flow 2:  
Average throughput: 4.20 Mbit/s  
95th percentile per-packet one-way delay: 1779.606 ms  
Loss rate: 22.45%  
-- Flow 3:  
Average throughput: 0.35 Mbit/s  
95th percentile per-packet one-way delay: 1575.560 ms  
Loss rate: 32.61%

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

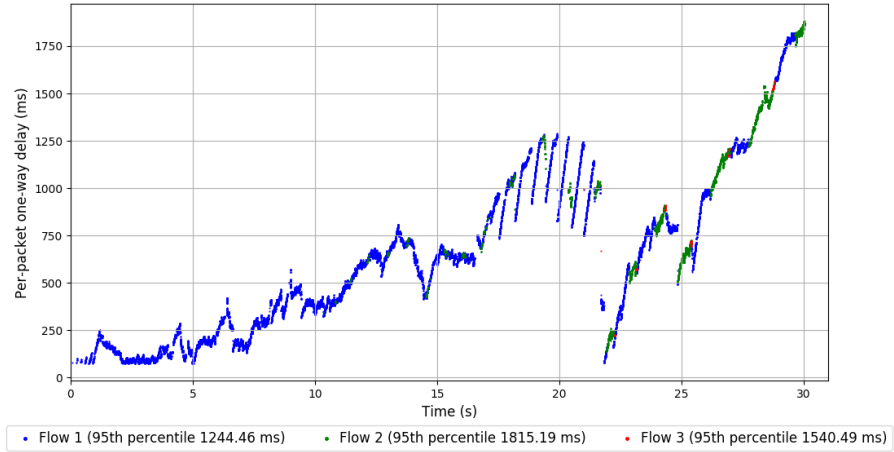
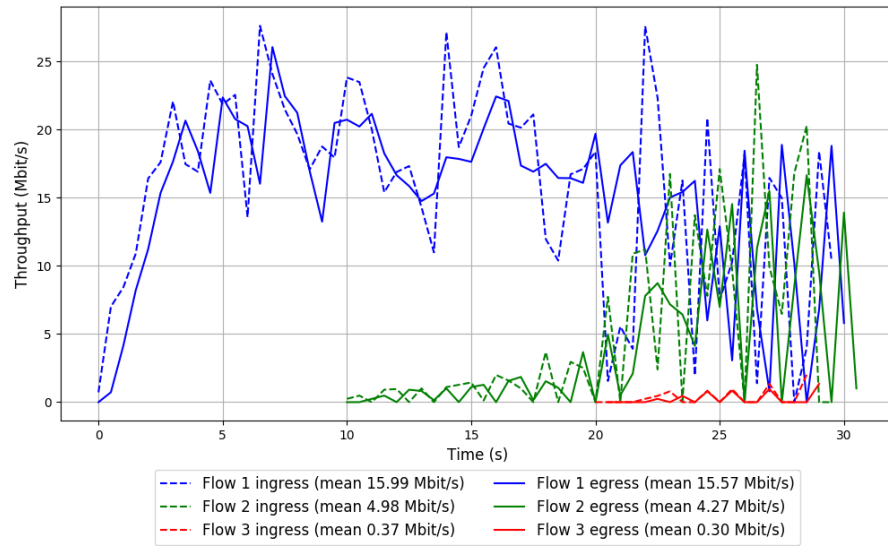


Run 4: Statistics of TCP Cubic

Start at: 2018-05-24 10:36:38  
End at: 2018-05-24 10:37:08  
Local clock offset: 1.856 ms  
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2018-05-24 12:44:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 18.25 Mbit/s  
95th percentile per-packet one-way delay: 1479.094 ms  
Loss rate: 5.48%  
-- Flow 1:  
Average throughput: 15.57 Mbit/s  
95th percentile per-packet one-way delay: 1244.458 ms  
Loss rate: 3.44%  
-- Flow 2:  
Average throughput: 4.27 Mbit/s  
95th percentile per-packet one-way delay: 1815.192 ms  
Loss rate: 14.54%  
-- Flow 3:  
Average throughput: 0.30 Mbit/s  
95th percentile per-packet one-way delay: 1540.490 ms  
Loss rate: 30.29%

# Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-05-24 10:57:42

End at: 2018-05-24 10:58:12

Local clock offset: 4.513 ms

Remote clock offset: 6.338 ms

# Below is generated by plot.py at 2018-05-24 12:44:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 15.14 Mbit/s

95th percentile per-packet one-way delay: 1858.582 ms

Loss rate: 6.62%

-- Flow 1:

Average throughput: 13.16 Mbit/s

95th percentile per-packet one-way delay: 1544.189 ms

Loss rate: 4.47%

-- Flow 2:

Average throughput: 3.69 Mbit/s

95th percentile per-packet one-way delay: 2740.517 ms

Loss rate: 15.59%

-- Flow 3:

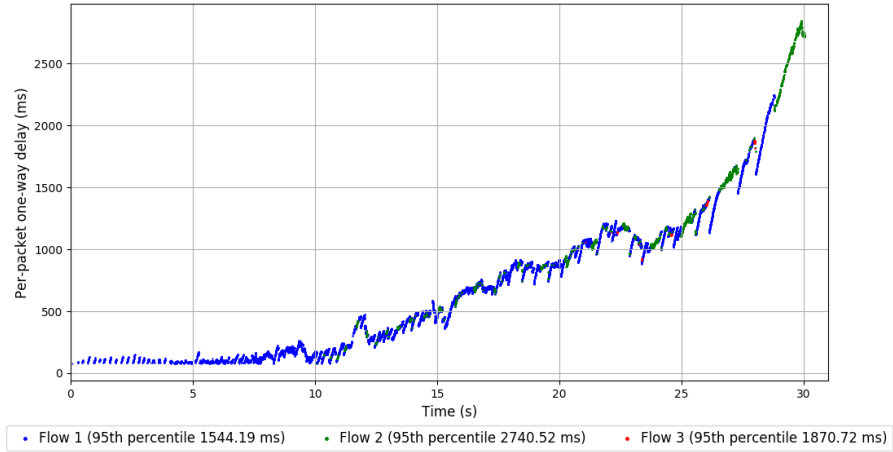
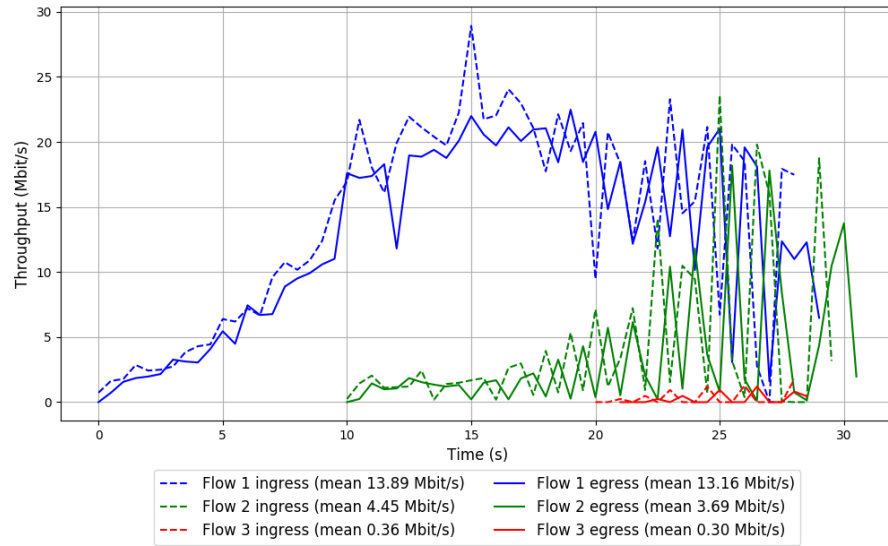
Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 1870.722 ms

Loss rate: 29.77%



# Run 5: Report of TCP Cubic — Data Link

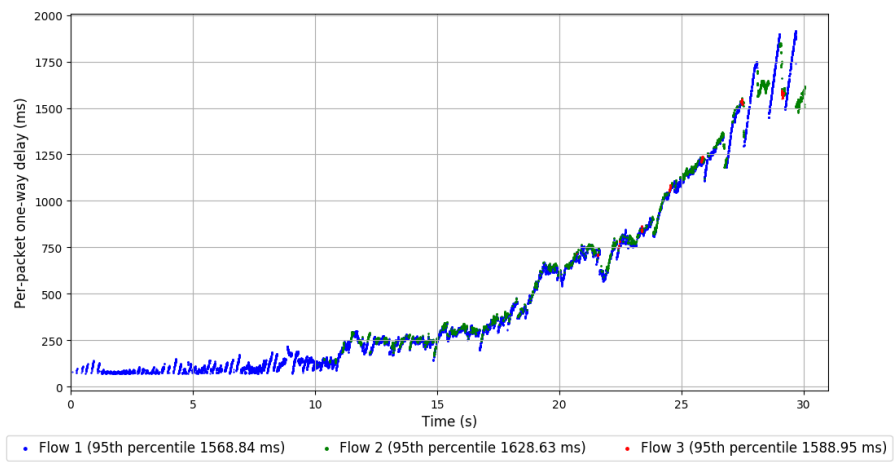
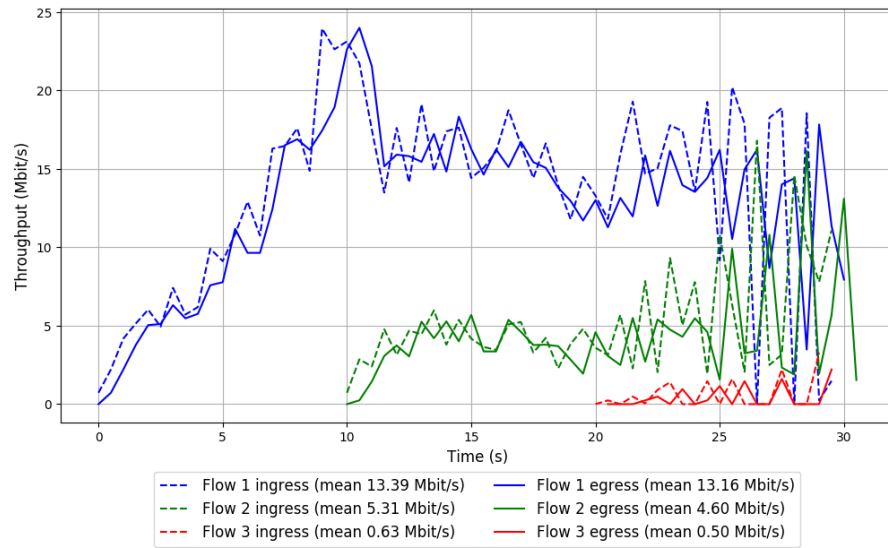


Run 6: Statistics of TCP Cubic

Start at: 2018-05-24 11:18:43  
End at: 2018-05-24 11:19:13  
Local clock offset: 3.575 ms  
Remote clock offset: 10.671 ms

# Below is generated by plot.py at 2018-05-24 12:44:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 16.20 Mbit/s  
95th percentile per-packet one-way delay: 1611.277 ms  
Loss rate: 5.13%  
-- Flow 1:  
Average throughput: 13.16 Mbit/s  
95th percentile per-packet one-way delay: 1568.841 ms  
Loss rate: 2.54%  
-- Flow 2:  
Average throughput: 4.60 Mbit/s  
95th percentile per-packet one-way delay: 1628.626 ms  
Loss rate: 13.65%  
-- Flow 3:  
Average throughput: 0.50 Mbit/s  
95th percentile per-packet one-way delay: 1588.946 ms  
Loss rate: 28.24%

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

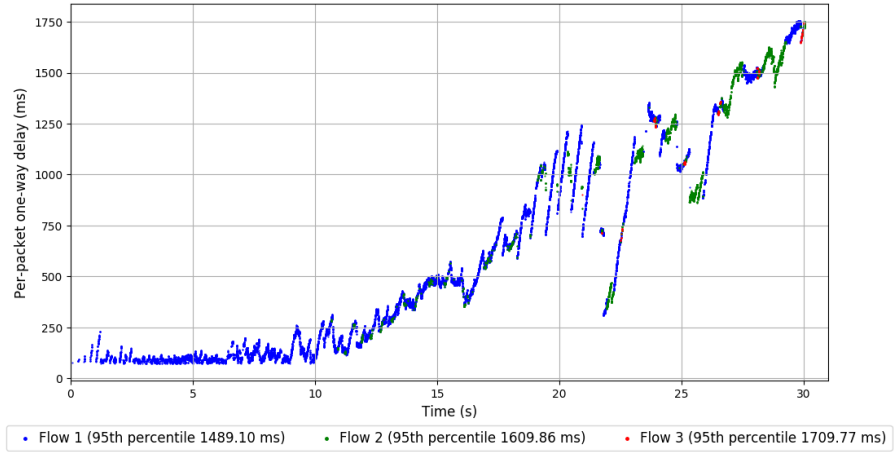
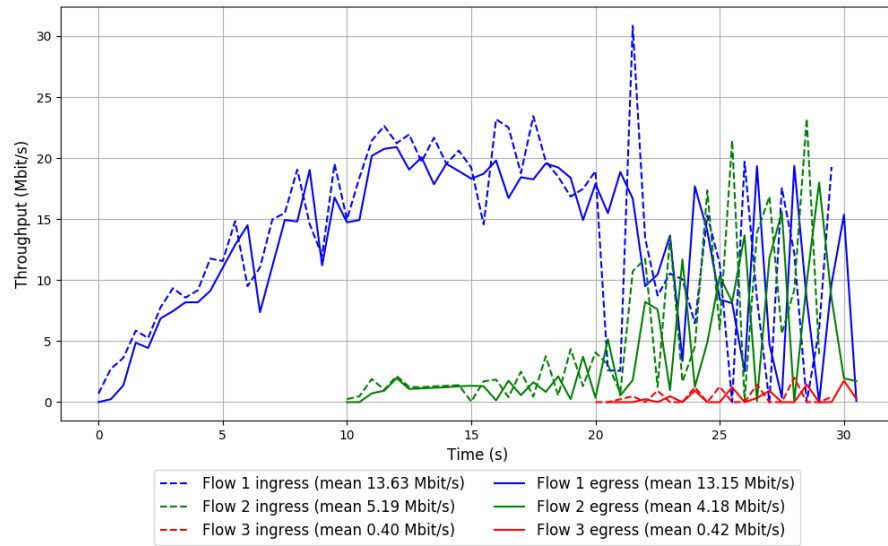


Run 7: Statistics of TCP Cubic

Start at: 2018-05-24 11:39:45  
End at: 2018-05-24 11:40:15  
Local clock offset: 3.021 ms  
Remote clock offset: 13.604 ms

# Below is generated by plot.py at 2018-05-24 12:44:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 16.03 Mbit/s  
95th percentile per-packet one-way delay: 1566.501 ms  
Loss rate: 6.15%  
-- Flow 1:  
Average throughput: 13.15 Mbit/s  
95th percentile per-packet one-way delay: 1489.098 ms  
Loss rate: 3.65%  
-- Flow 2:  
Average throughput: 4.18 Mbit/s  
95th percentile per-packet one-way delay: 1609.862 ms  
Loss rate: 16.51%  
-- Flow 3:  
Average throughput: 0.42 Mbit/s  
95th percentile per-packet one-way delay: 1709.765 ms  
Loss rate: 5.37%

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



Run 8: Statistics of TCP Cubic

Start at: 2018-05-24 12:00:56

End at: 2018-05-24 12:01:26

Local clock offset: 3.264 ms

Remote clock offset: 6.494 ms

# Below is generated by plot.py at 2018-05-24 12:44:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 12.08 Mbit/s

95th percentile per-packet one-way delay: 1990.469 ms

Loss rate: 8.00%

-- Flow 1:

Average throughput: 9.98 Mbit/s

95th percentile per-packet one-way delay: 1950.646 ms

Loss rate: 4.09%

-- Flow 2:

Average throughput: 3.09 Mbit/s

95th percentile per-packet one-way delay: 2086.670 ms

Loss rate: 22.44%

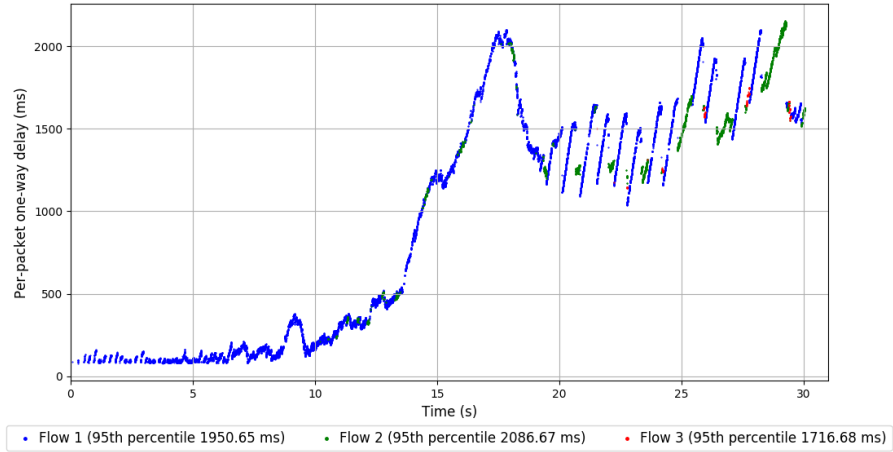
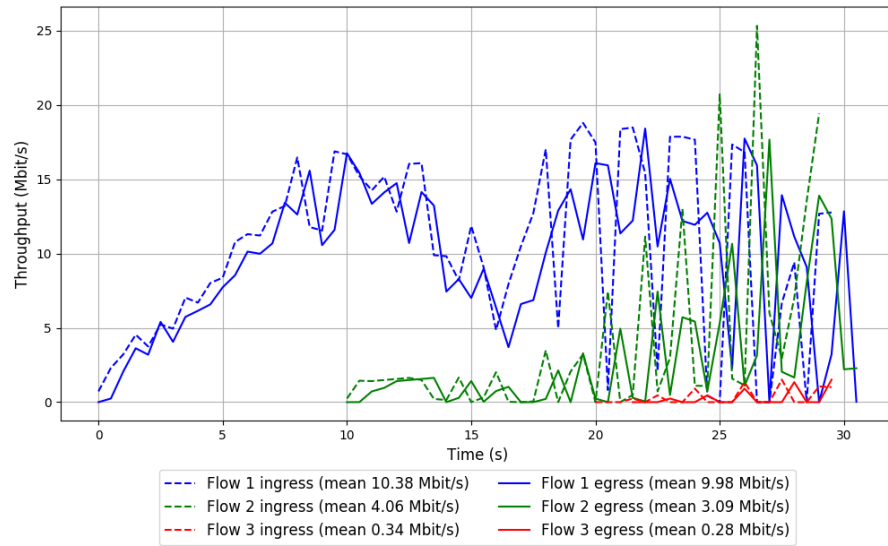
-- Flow 3:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 1716.676 ms

Loss rate: 31.58%

# Run 8: Report of TCP Cubic — Data Link



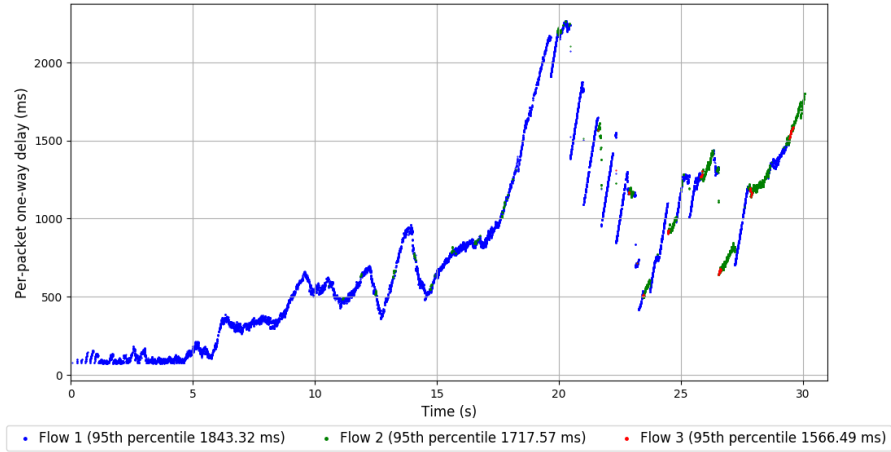
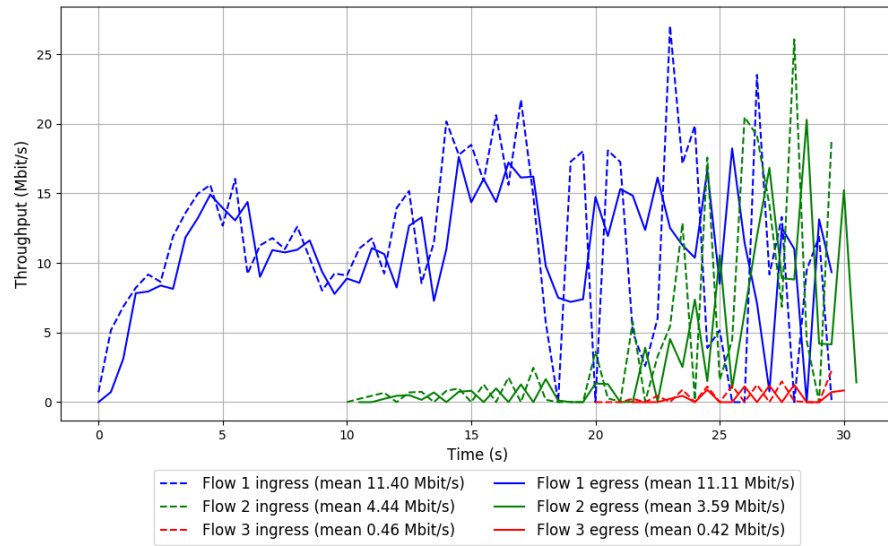
Run 9: Statistics of TCP Cubic

Start at: 2018-05-24 12:21:58  
End at: 2018-05-24 12:22:28  
Local clock offset: 3.688 ms  
Remote clock offset: -2.709 ms

# Below is generated by plot.py at 2018-05-24 12:44:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 13.31 Mbit/s  
95th percentile per-packet one-way delay: 1802.116 ms  
Loss rate: 6.90%  
-- Flow 1:  
Average throughput: 11.11 Mbit/s  
95th percentile per-packet one-way delay: 1843.321 ms  
Loss rate: 3.20%  
-- Flow 2:  
Average throughput: 3.59 Mbit/s  
95th percentile per-packet one-way delay: 1717.574 ms  
Loss rate: 20.20%  
-- Flow 3:  
Average throughput: 0.42 Mbit/s  
95th percentile per-packet one-way delay: 1566.486 ms  
Loss rate: 25.18%



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



Run 10: Statistics of TCP Cubic

Start at: 2018-05-24 12:42:58

End at: 2018-05-24 12:43:28

Local clock offset: 2.679 ms

Remote clock offset: -6.2 ms

# Below is generated by plot.py at 2018-05-24 12:45:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 10.89 Mbit/s

95th percentile per-packet one-way delay: 1153.564 ms

Loss rate: 7.19%

-- Flow 1:

Average throughput: 8.76 Mbit/s

95th percentile per-packet one-way delay: 1129.222 ms

Loss rate: 3.42%

-- Flow 2:

Average throughput: 3.09 Mbit/s

95th percentile per-packet one-way delay: 1255.272 ms

Loss rate: 19.77%

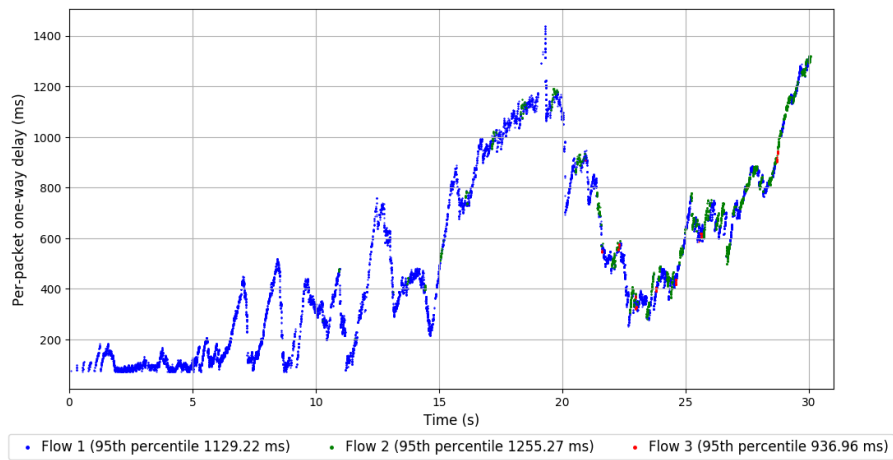
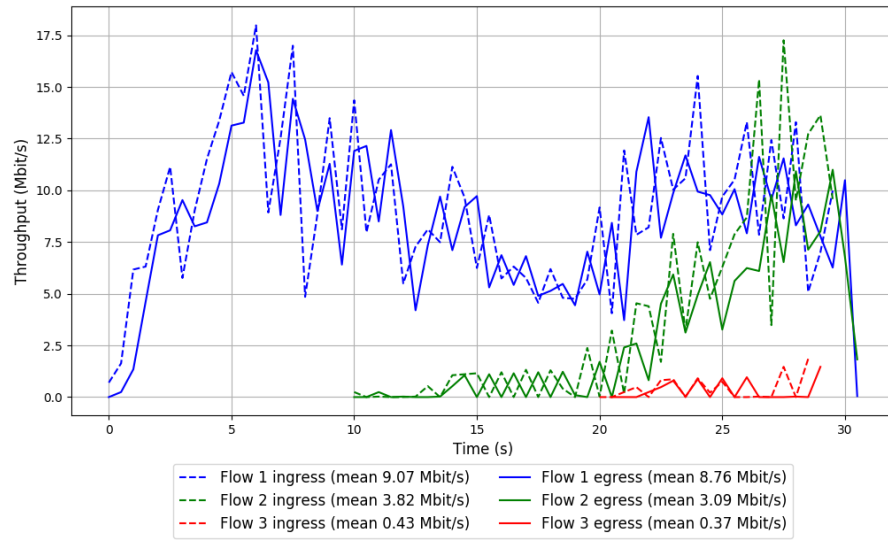
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 936.963 ms

Loss rate: 24.27%

# Run 10: Report of TCP Cubic — Data Link

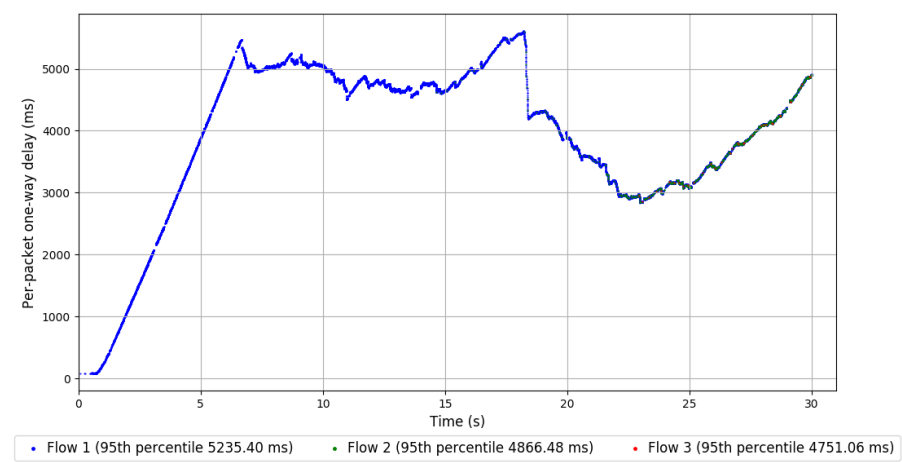
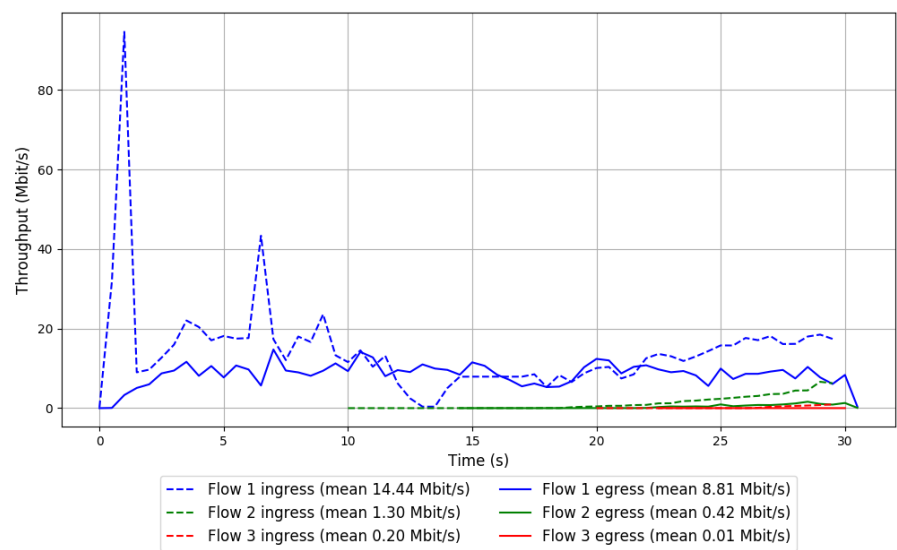


Run 1: Statistics of FillP

Start at: 2018-05-24 09:23:06  
End at: 2018-05-24 09:23:36  
Local clock offset: -10.568 ms  
Remote clock offset: -1.051 ms

# Below is generated by plot.py at 2018-05-24 12:45:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 9.02 Mbit/s  
95th percentile per-packet one-way delay: 5231.378 ms  
Loss rate: 41.34%  
-- Flow 1:  
Average throughput: 8.81 Mbit/s  
95th percentile per-packet one-way delay: 5235.395 ms  
Loss rate: 39.03%  
-- Flow 2:  
Average throughput: 0.42 Mbit/s  
95th percentile per-packet one-way delay: 4866.482 ms  
Loss rate: 75.43%  
-- Flow 3:  
Average throughput: 0.01 Mbit/s  
95th percentile per-packet one-way delay: 4751.061 ms  
Loss rate: 98.07%

Run 1: Report of FillP — Data Link

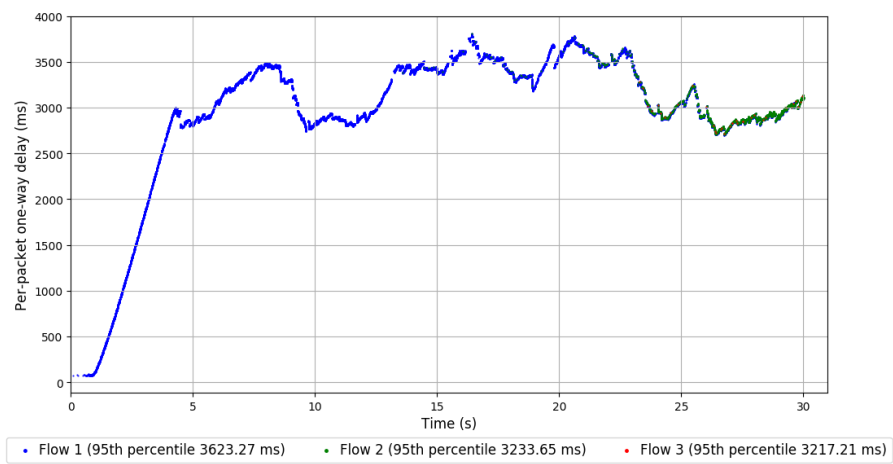
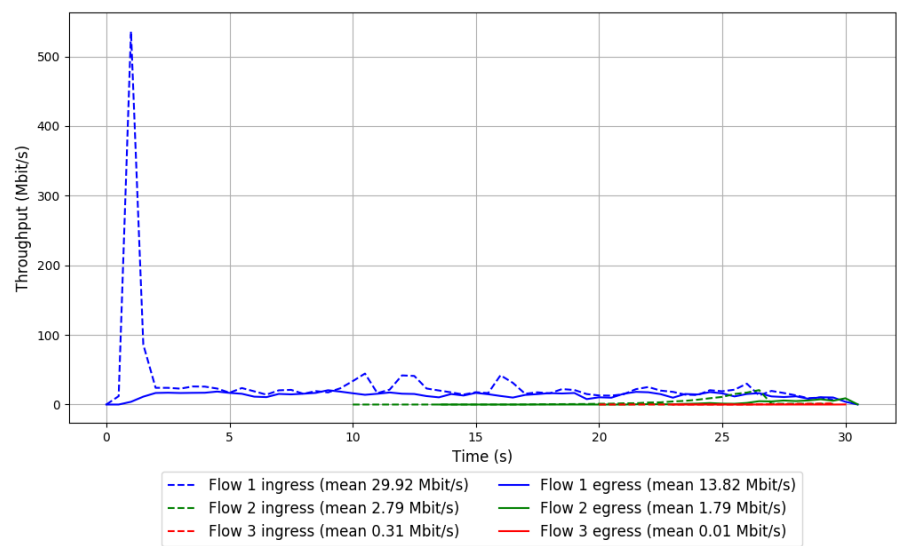


Run 2: Statistics of FillP

Start at: 2018-05-24 09:44:05  
End at: 2018-05-24 09:44:35  
Local clock offset: 3.403 ms  
Remote clock offset: -1.319 ms

# Below is generated by plot.py at 2018-05-24 12:45:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 14.80 Mbit/s  
95th percentile per-packet one-way delay: 3618.725 ms  
Loss rate: 53.59%  
-- Flow 1:  
Average throughput: 13.82 Mbit/s  
95th percentile per-packet one-way delay: 3623.271 ms  
Loss rate: 53.84%  
-- Flow 2:  
Average throughput: 1.79 Mbit/s  
95th percentile per-packet one-way delay: 3233.650 ms  
Loss rate: 47.11%  
-- Flow 3:  
Average throughput: 0.01 Mbit/s  
95th percentile per-packet one-way delay: 3217.211 ms  
Loss rate: 96.79%

Run 2: Report of FillP — Data Link



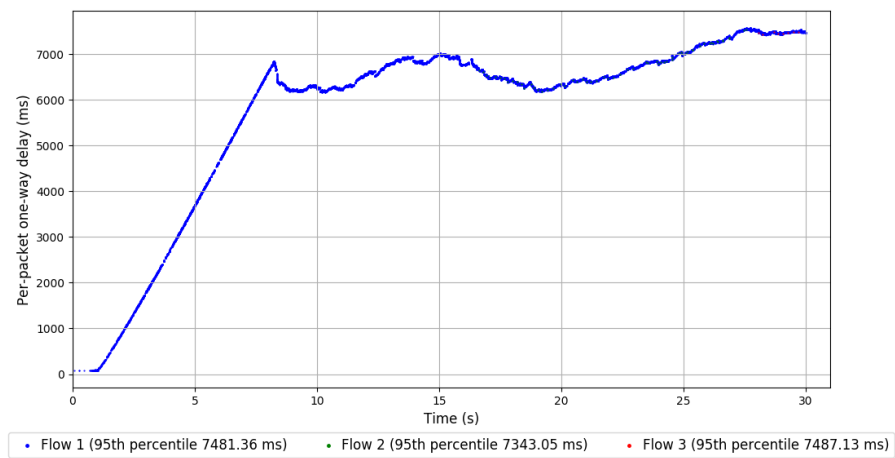
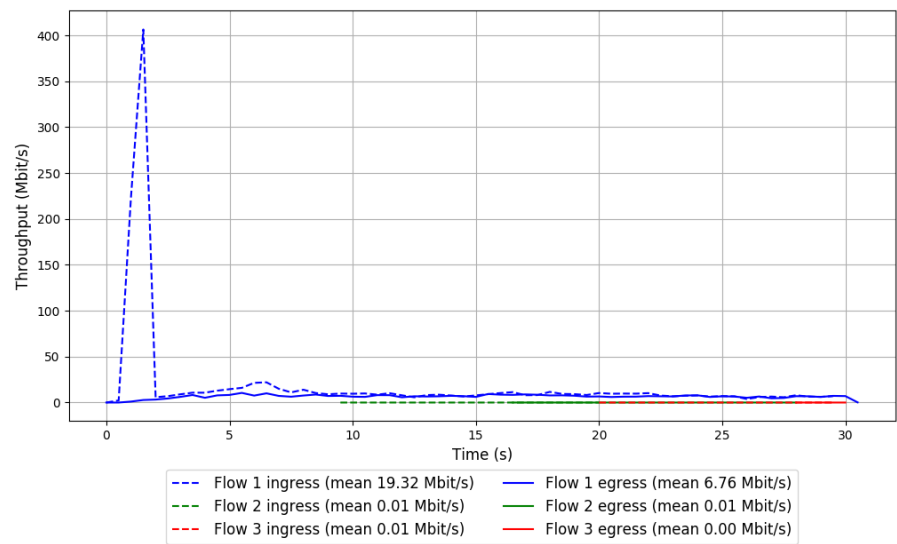
Run 3: Statistics of FillP

Start at: 2018-05-24 10:05:06  
End at: 2018-05-24 10:05:36  
Local clock offset: 0.12 ms  
Remote clock offset: -0.963 ms

# Below is generated by plot.py at 2018-05-24 12:45:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 6.76 Mbit/s  
95th percentile per-packet one-way delay: 7481.338 ms  
Loss rate: 65.06%  
-- Flow 1:  
Average throughput: 6.76 Mbit/s  
95th percentile per-packet one-way delay: 7481.364 ms  
Loss rate: 65.06%  
-- Flow 2:  
Average throughput: 0.01 Mbit/s  
95th percentile per-packet one-way delay: 7343.052 ms  
Loss rate: 14.16%  
-- Flow 3:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 7487.131 ms  
Loss rate: 88.38%



Run 3: Report of FillP — Data Link

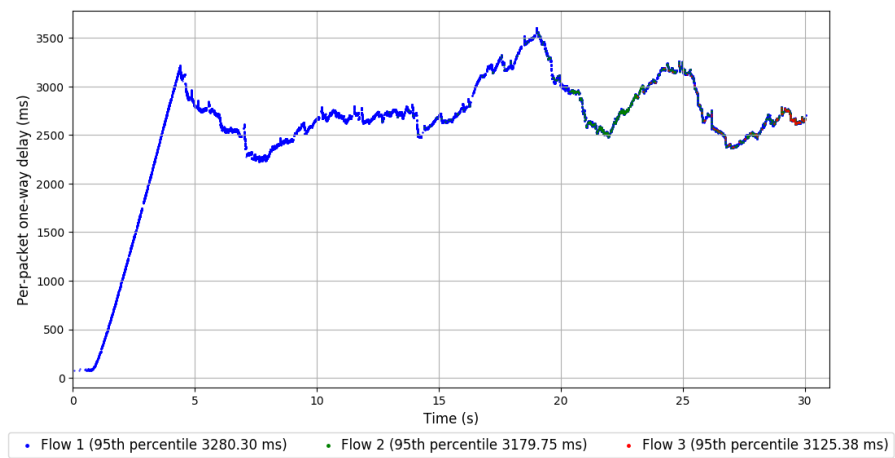
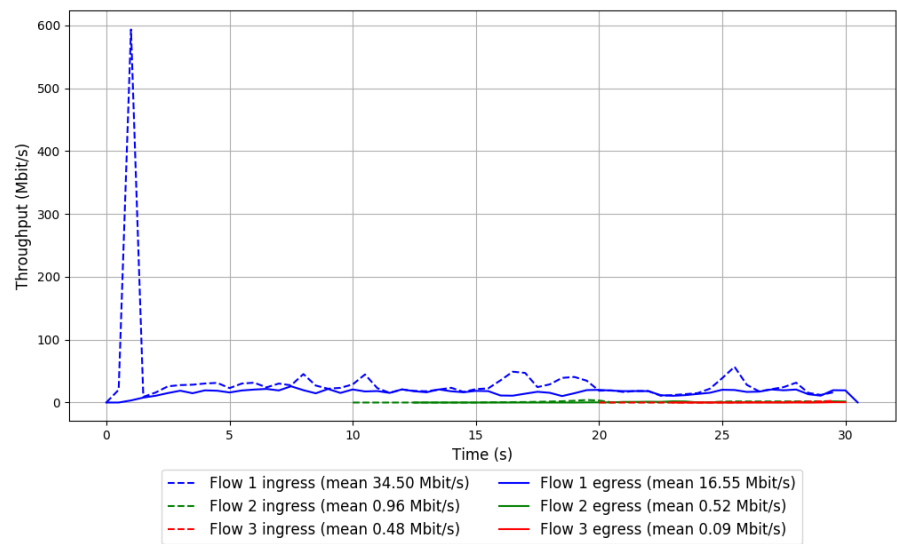


Run 4: Statistics of FillP

Start at: 2018-05-24 10:26:07  
End at: 2018-05-24 10:26:37  
Local clock offset: -2.965 ms  
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2018-05-24 12:45:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 16.87 Mbit/s  
95th percentile per-packet one-way delay: 3275.968 ms  
Loss rate: 52.22%  
-- Flow 1:  
Average throughput: 16.55 Mbit/s  
95th percentile per-packet one-way delay: 3280.302 ms  
Loss rate: 52.04%  
-- Flow 2:  
Average throughput: 0.52 Mbit/s  
95th percentile per-packet one-way delay: 3179.749 ms  
Loss rate: 52.80%  
-- Flow 3:  
Average throughput: 0.09 Mbit/s  
95th percentile per-packet one-way delay: 3125.383 ms  
Loss rate: 87.54%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-05-24 10:47:09

End at: 2018-05-24 10:47:39

Local clock offset: 3.826 ms

Remote clock offset: 1.096 ms

# Below is generated by plot.py at 2018-05-24 12:45:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 18.50 Mbit/s

95th percentile per-packet one-way delay: 2839.253 ms

Loss rate: 48.94%

-- Flow 1:

Average throughput: 15.63 Mbit/s

95th percentile per-packet one-way delay: 2913.711 ms

Loss rate: 46.52%

-- Flow 2:

Average throughput: 4.76 Mbit/s

95th percentile per-packet one-way delay: 2625.994 ms

Loss rate: 58.90%

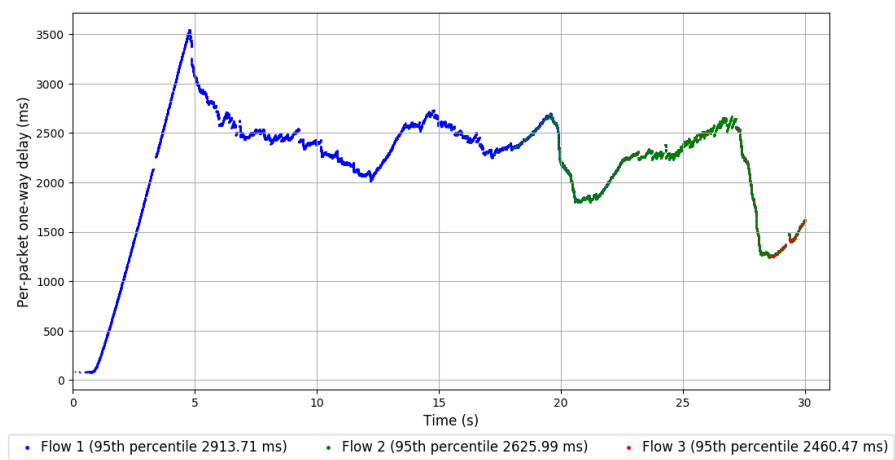
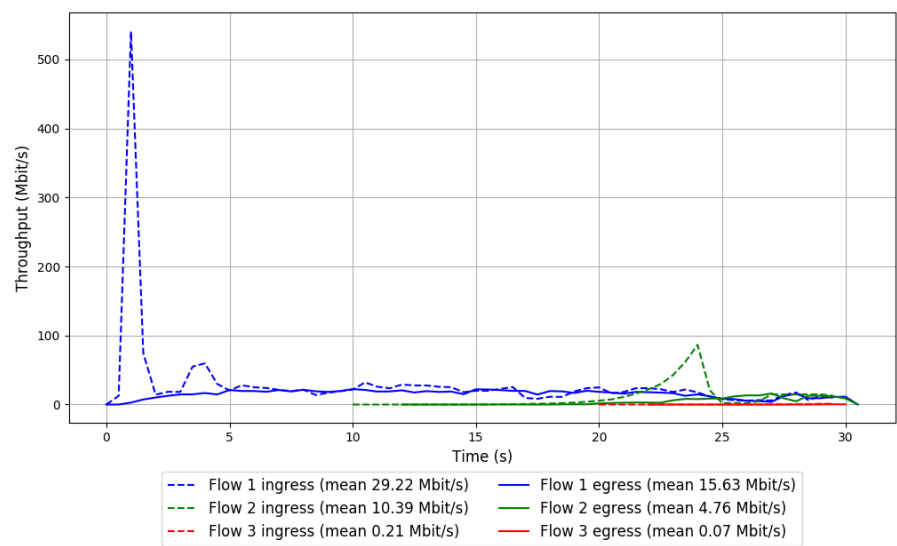
-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 2460.472 ms

Loss rate: 74.26%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-05-24 11:08:12

End at: 2018-05-24 11:08:42

Local clock offset: 3.373 ms

Remote clock offset: 8.901 ms

# Below is generated by plot.py at 2018-05-24 12:45:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 18.82 Mbit/s

95th percentile per-packet one-way delay: 2777.149 ms

Loss rate: 33.53%

-- Flow 1:

Average throughput: 16.71 Mbit/s

95th percentile per-packet one-way delay: 2786.995 ms

Loss rate: 32.50%

-- Flow 2:

Average throughput: 3.39 Mbit/s

95th percentile per-packet one-way delay: 2646.838 ms

Loss rate: 35.80%

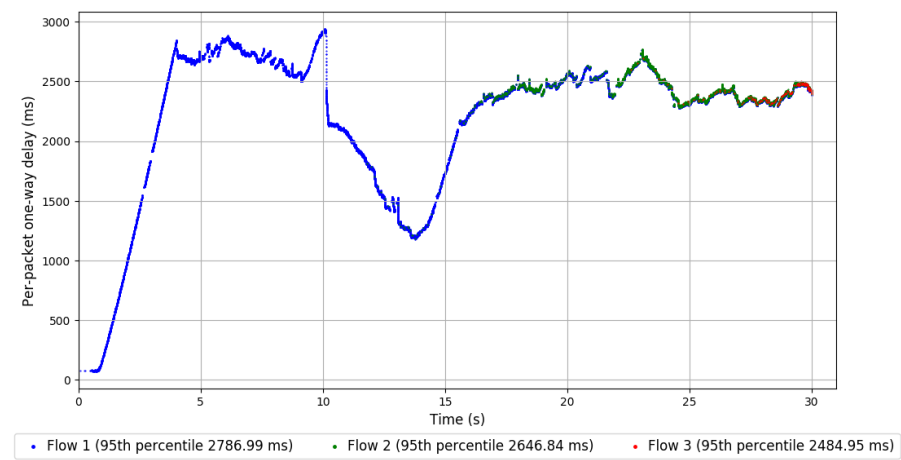
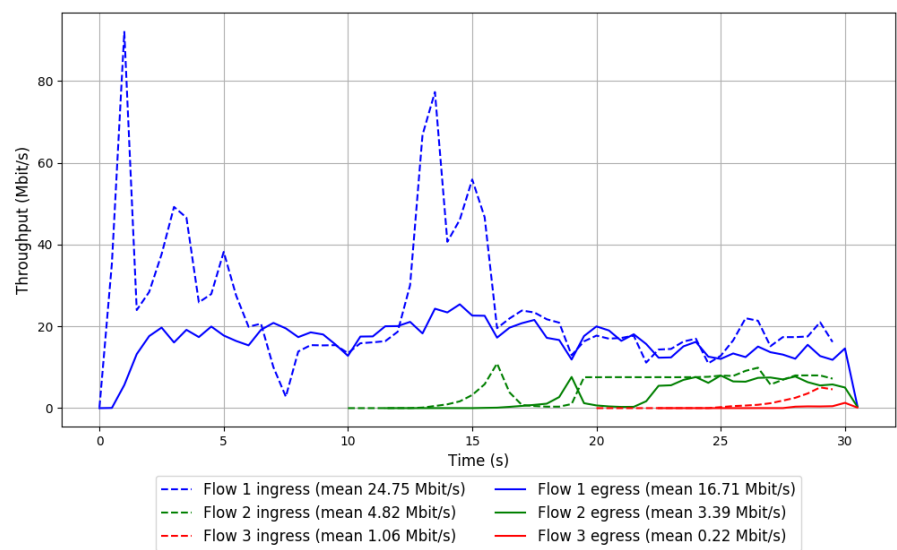
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2484.946 ms

Loss rate: 84.91%

Run 6: Report of FillP — Data Link



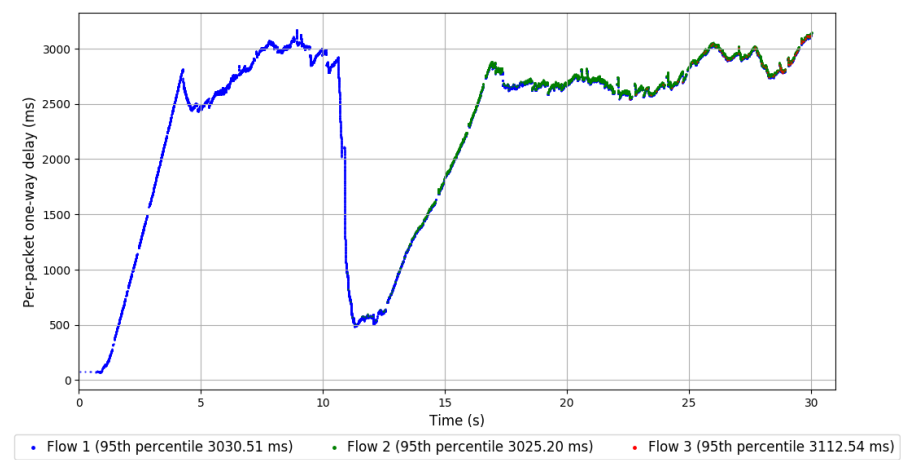
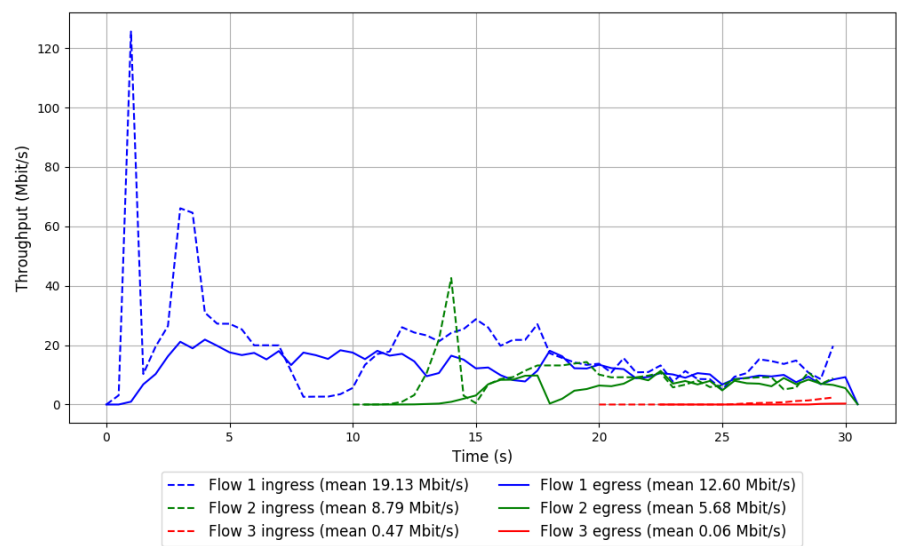
Run 7: Statistics of FillP

Start at: 2018-05-24 11:29:15  
End at: 2018-05-24 11:29:45  
Local clock offset: 3.539 ms  
Remote clock offset: 12.225 ms

# Below is generated by plot.py at 2018-05-24 12:45:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 16.22 Mbit/s  
95th percentile per-packet one-way delay: 3029.315 ms  
Loss rate: 35.49%  
-- Flow 1:  
Average throughput: 12.60 Mbit/s  
95th percentile per-packet one-way delay: 3030.505 ms  
Loss rate: 34.17%  
-- Flow 2:  
Average throughput: 5.68 Mbit/s  
95th percentile per-packet one-way delay: 3025.204 ms  
Loss rate: 38.38%  
-- Flow 3:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 3112.536 ms  
Loss rate: 90.13%



Run 7: Report of FillP — Data Link

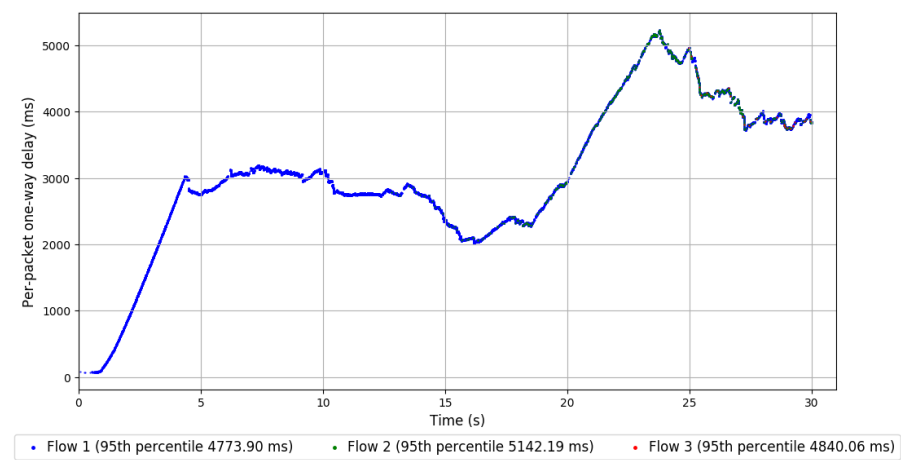
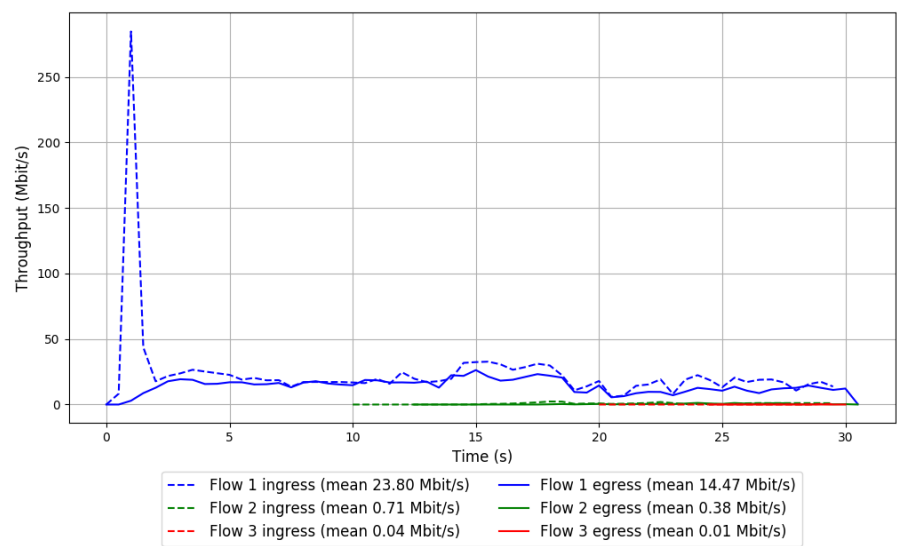


Run 8: Statistics of FillP

Start at: 2018-05-24 11:50:16  
End at: 2018-05-24 11:50:46  
Local clock offset: 3.354 ms  
Remote clock offset: 15.022 ms

# Below is generated by plot.py at 2018-05-24 12:45:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 14.68 Mbit/s  
95th percentile per-packet one-way delay: 4801.633 ms  
Loss rate: 39.54%  
-- Flow 1:  
Average throughput: 14.47 Mbit/s  
95th percentile per-packet one-way delay: 4773.905 ms  
Loss rate: 39.22%  
-- Flow 2:  
Average throughput: 0.38 Mbit/s  
95th percentile per-packet one-way delay: 5142.189 ms  
Loss rate: 54.14%  
-- Flow 3:  
Average throughput: 0.01 Mbit/s  
95th percentile per-packet one-way delay: 4840.060 ms  
Loss rate: 93.20%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-05-24 12:11:28

End at: 2018-05-24 12:11:58

Local clock offset: 3.715 ms

Remote clock offset: 0.202 ms

# Below is generated by plot.py at 2018-05-24 12:45:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 14.12 Mbit/s

95th percentile per-packet one-way delay: 4648.108 ms

Loss rate: 55.86%

-- Flow 1:

Average throughput: 12.67 Mbit/s

95th percentile per-packet one-way delay: 4734.112 ms

Loss rate: 53.61%

-- Flow 2:

Average throughput: 2.54 Mbit/s

95th percentile per-packet one-way delay: 4487.454 ms

Loss rate: 68.81%

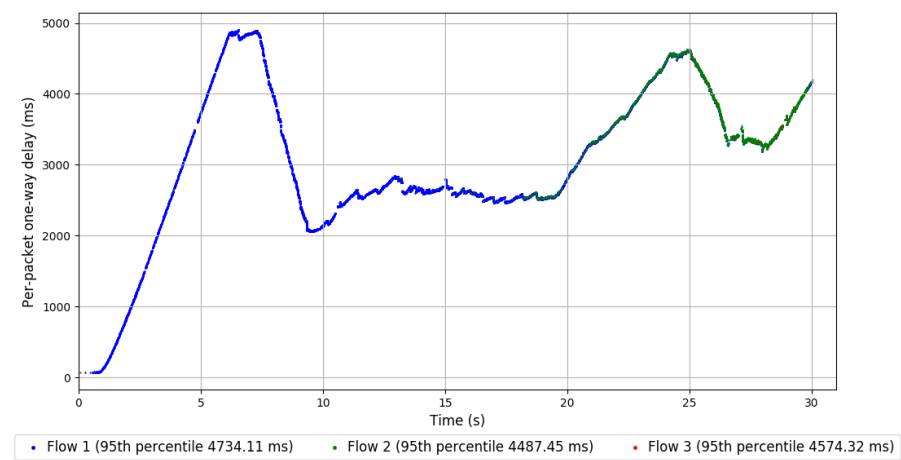
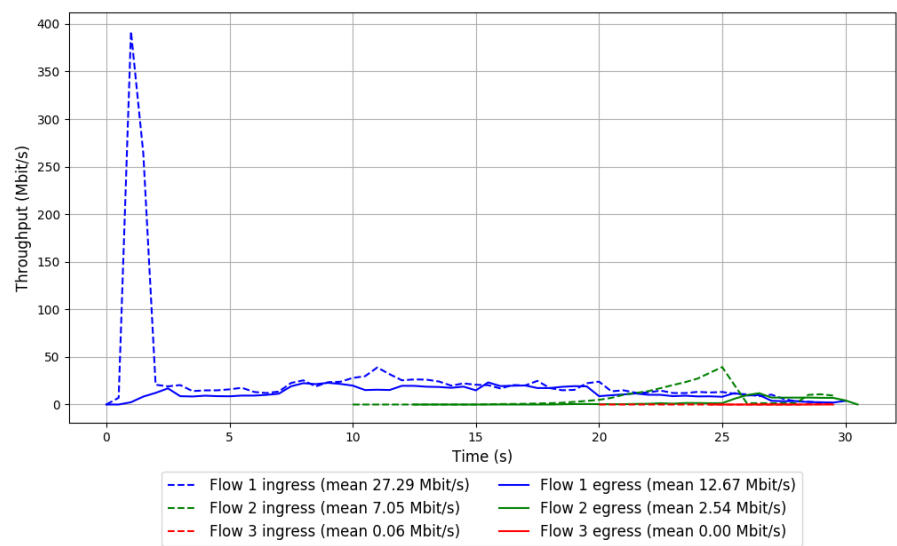
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 4574.316 ms

Loss rate: 97.91%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

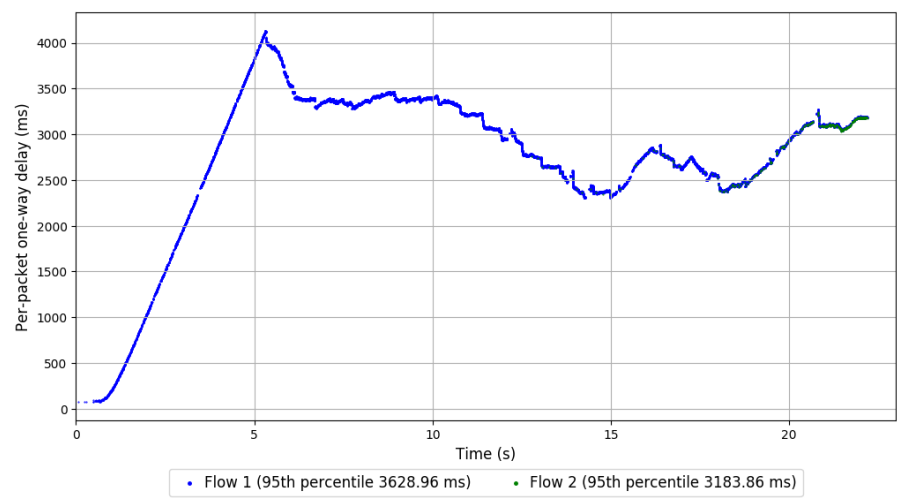
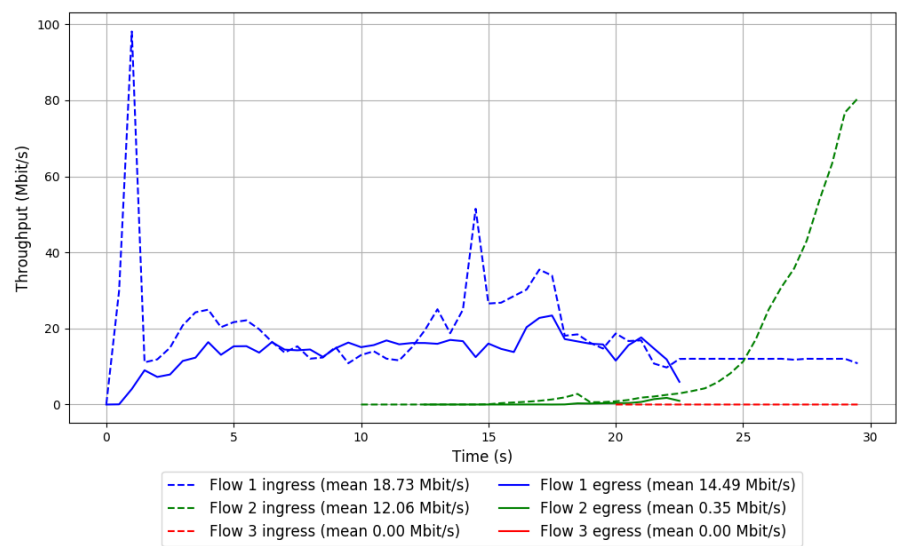
Start at: 2018-05-24 12:32:28

End at: 2018-05-24 12:32:58

Local clock offset: 3.072 ms

Remote clock offset: -4.673 ms

Run 10: Report of FillP — Data Link



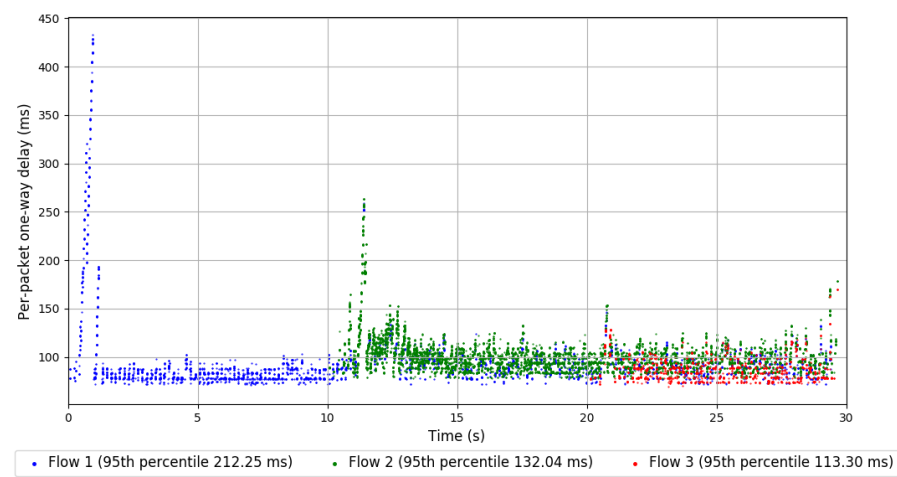
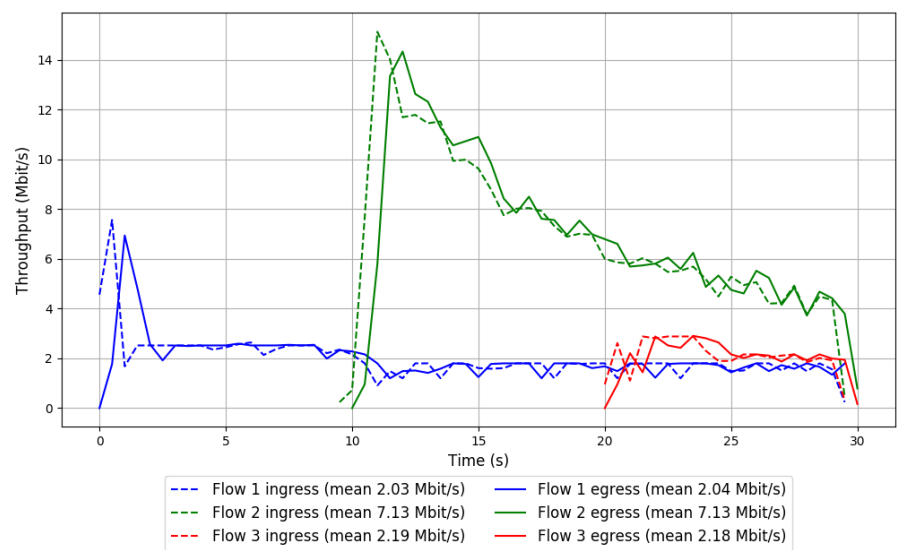
Run 1: Statistics of Indigo

Start at: 2018-05-24 09:17:51  
End at: 2018-05-24 09:18:21  
Local clock offset: -9.949 ms  
Remote clock offset: -0.497 ms

# Below is generated by plot.py at 2018-05-24 12:45:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 7.44 Mbit/s  
95th percentile per-packet one-way delay: 133.604 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 2.04 Mbit/s  
95th percentile per-packet one-way delay: 212.252 ms  
Loss rate: 0.50%  
-- Flow 2:  
Average throughput: 7.13 Mbit/s  
95th percentile per-packet one-way delay: 132.037 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 2.18 Mbit/s  
95th percentile per-packet one-way delay: 113.296 ms  
Loss rate: 0.92%



Run 1: Report of Indigo — Data Link

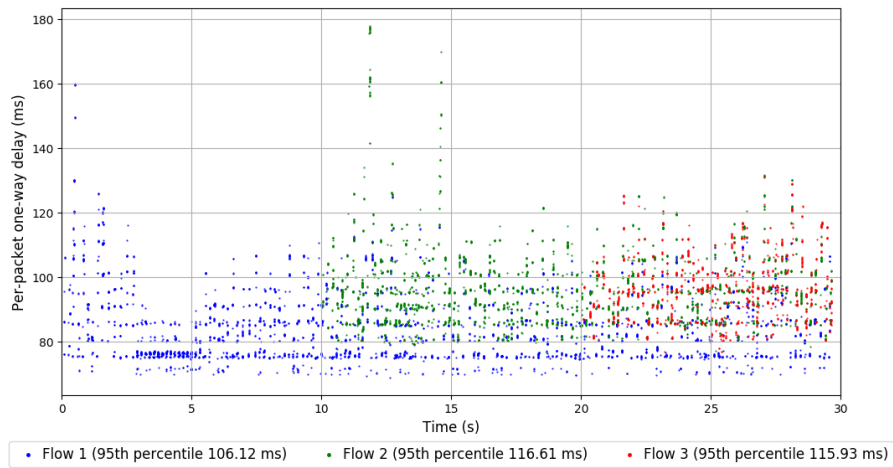
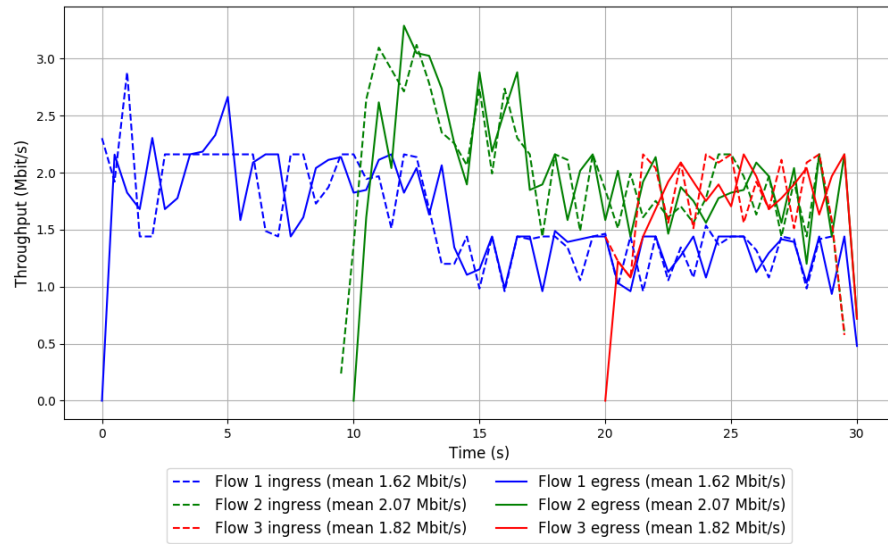


Run 2: Statistics of Indigo

Start at: 2018-05-24 09:38:50  
End at: 2018-05-24 09:39:20  
Local clock offset: 1.37 ms  
Remote clock offset: -1.968 ms

# Below is generated by plot.py at 2018-05-24 12:45:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.57 Mbit/s  
95th percentile per-packet one-way delay: 112.550 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.62 Mbit/s  
95th percentile per-packet one-way delay: 106.120 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 2.07 Mbit/s  
95th percentile per-packet one-way delay: 116.614 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 1.82 Mbit/s  
95th percentile per-packet one-way delay: 115.930 ms  
Loss rate: 0.00%

## Run 2: Report of Indigo — Data Link

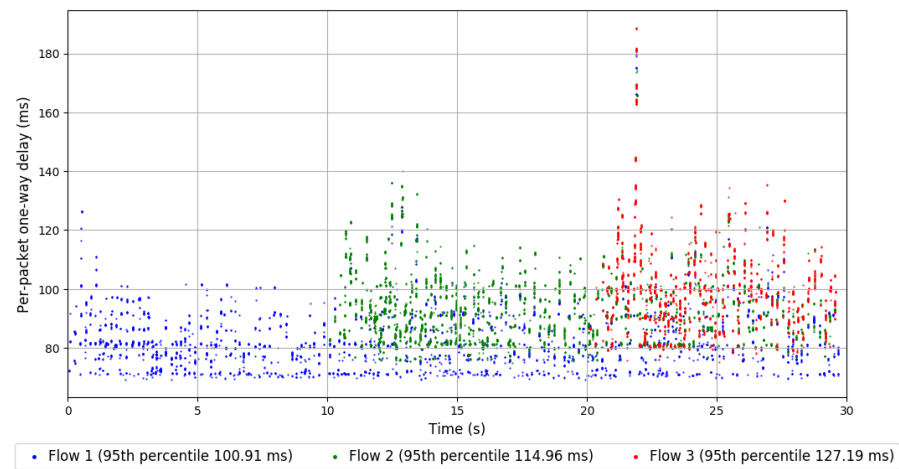
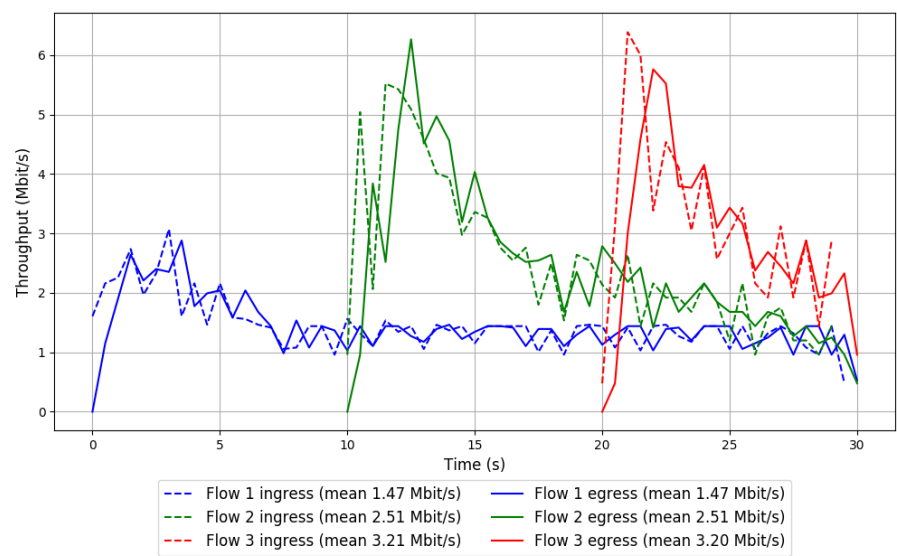


Run 3: Statistics of Indigo

Start at: 2018-05-24 09:59:52  
End at: 2018-05-24 10:00:22  
Local clock offset: 2.915 ms  
Remote clock offset: -1.008 ms

# Below is generated by plot.py at 2018-05-24 12:45:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.14 Mbit/s  
95th percentile per-packet one-way delay: 117.222 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 1.47 Mbit/s  
95th percentile per-packet one-way delay: 100.912 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 2.51 Mbit/s  
95th percentile per-packet one-way delay: 114.961 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 3.20 Mbit/s  
95th percentile per-packet one-way delay: 127.193 ms  
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link

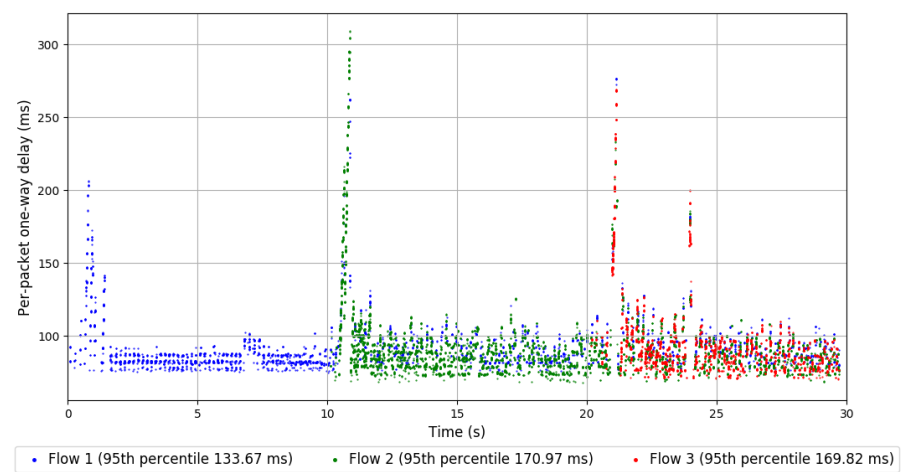
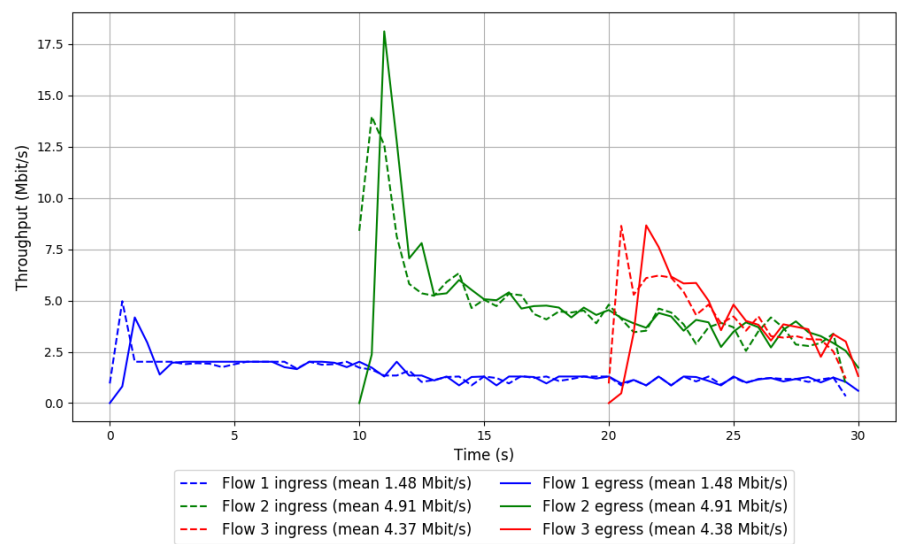


Run 4: Statistics of Indigo

Start at: 2018-05-24 10:20:52  
End at: 2018-05-24 10:21:22  
Local clock offset: -2.607 ms  
Remote clock offset: -0.228 ms

# Below is generated by plot.py at 2018-05-24 12:45:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 6.13 Mbit/s  
95th percentile per-packet one-way delay: 163.481 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 1.48 Mbit/s  
95th percentile per-packet one-way delay: 133.673 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 4.91 Mbit/s  
95th percentile per-packet one-way delay: 170.971 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 4.38 Mbit/s  
95th percentile per-packet one-way delay: 169.825 ms  
Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-05-24 10:41:54

End at: 2018-05-24 10:42:24

Local clock offset: 2.744 ms

Remote clock offset: 0.064 ms

# Below is generated by plot.py at 2018-05-24 12:45:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 192.564 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 4.36 Mbit/s

95th percentile per-packet one-way delay: 244.640 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 129.332 ms

Loss rate: 0.13%

-- Flow 3:

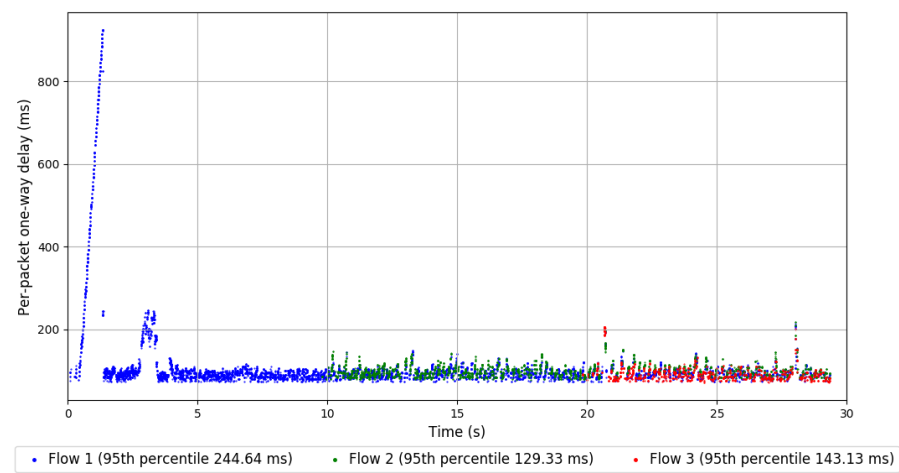
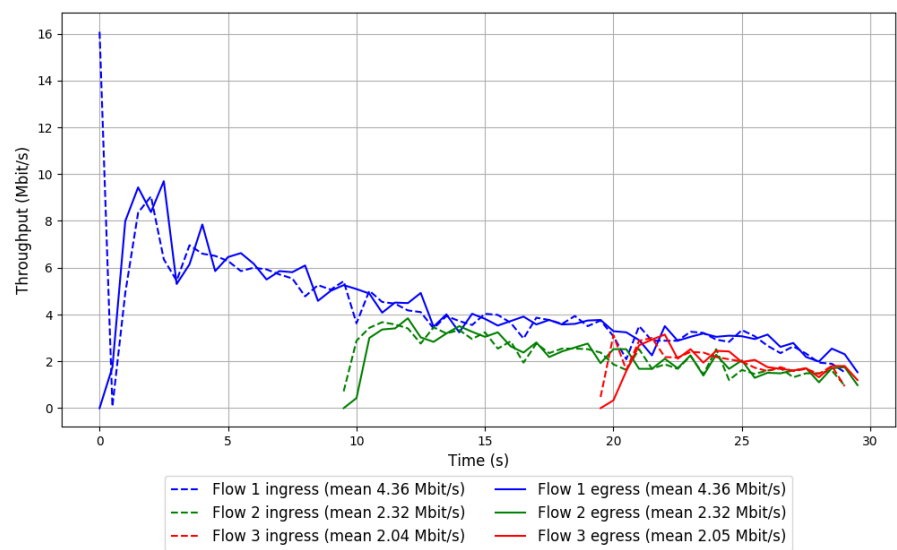
Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 143.127 ms

Loss rate: 0.00%



Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-05-24 11:02:57

End at: 2018-05-24 11:03:27

Local clock offset: 3.772 ms

Remote clock offset: 7.848 ms

# Below is generated by plot.py at 2018-05-24 12:45:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.30 Mbit/s

95th percentile per-packet one-way delay: 102.989 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 1.47 Mbit/s

95th percentile per-packet one-way delay: 102.822 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 101.278 ms

Loss rate: 0.00%

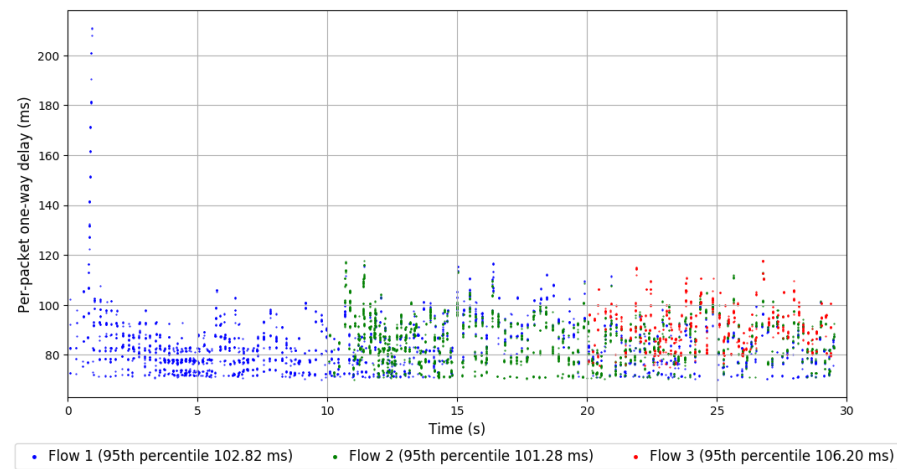
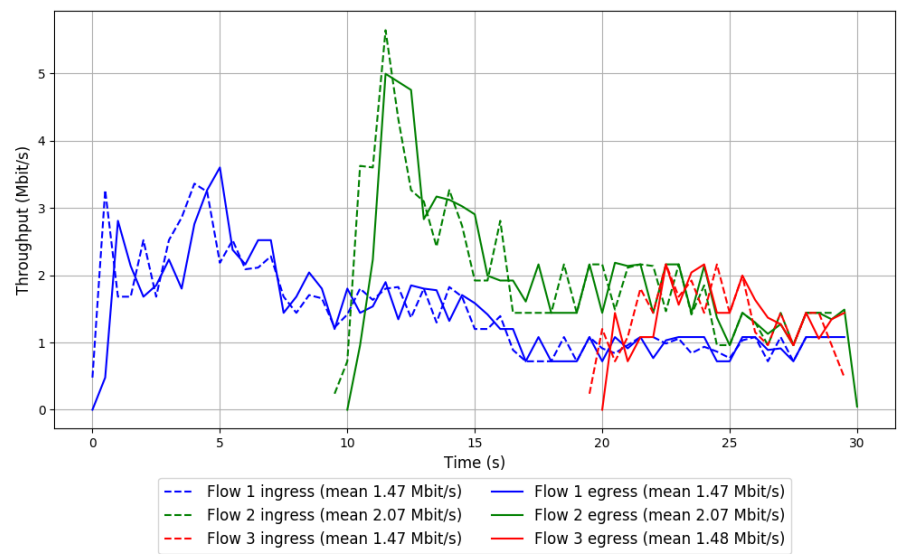
-- Flow 3:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 106.204 ms

Loss rate: 1.71%

Run 6: Report of Indigo — Data Link

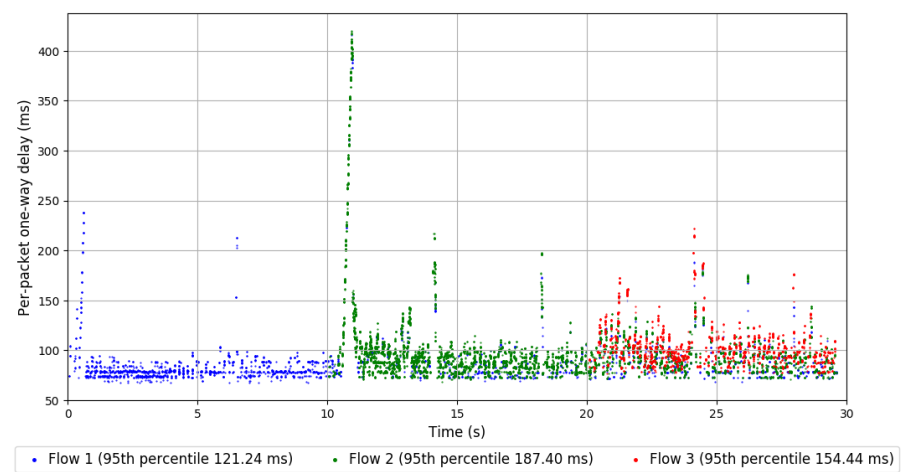
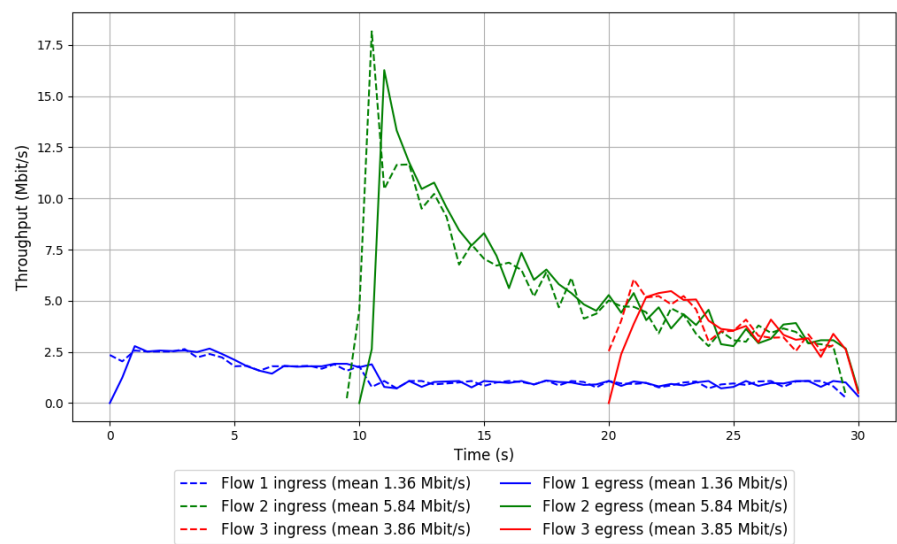


Run 7: Statistics of Indigo

Start at: 2018-05-24 11:23:59  
End at: 2018-05-24 11:24:29  
Local clock offset: 3.93 ms  
Remote clock offset: 11.447 ms

# Below is generated by plot.py at 2018-05-24 12:45:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 6.45 Mbit/s  
95th percentile per-packet one-way delay: 167.214 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 1.36 Mbit/s  
95th percentile per-packet one-way delay: 121.236 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 5.84 Mbit/s  
95th percentile per-packet one-way delay: 187.402 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 3.85 Mbit/s  
95th percentile per-packet one-way delay: 154.437 ms  
Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-05-24 11:45:00

End at: 2018-05-24 11:45:30

Local clock offset: 3.142 ms

Remote clock offset: 14.25 ms

# Below is generated by plot.py at 2018-05-24 12:45:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.38 Mbit/s

95th percentile per-packet one-way delay: 123.837 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 111.059 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 1.80 Mbit/s

95th percentile per-packet one-way delay: 125.251 ms

Loss rate: 0.27%

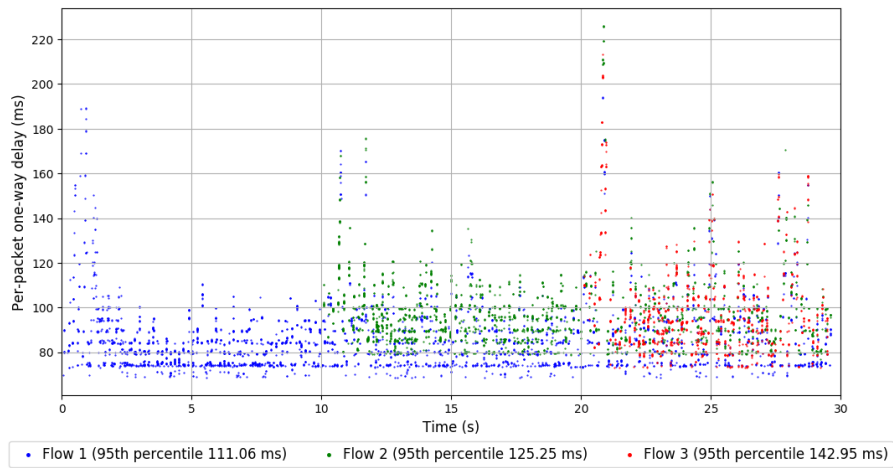
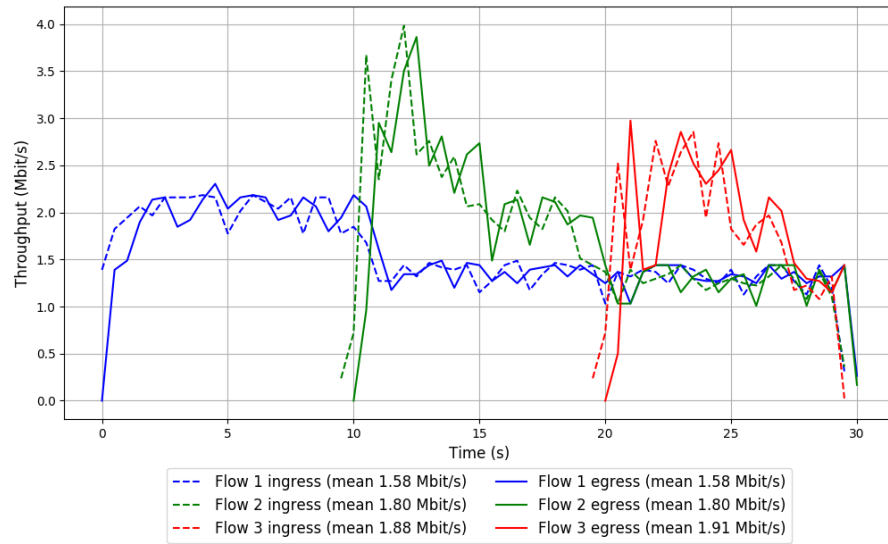
-- Flow 3:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 142.947 ms

Loss rate: 0.07%

## Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-05-24 12:06:13

End at: 2018-05-24 12:06:43

Local clock offset: 3.569 ms

Remote clock offset: 2.571 ms

# Below is generated by plot.py at 2018-05-24 12:45:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.43 Mbit/s

95th percentile per-packet one-way delay: 124.894 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.61 Mbit/s

95th percentile per-packet one-way delay: 128.136 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.63 Mbit/s

95th percentile per-packet one-way delay: 126.760 ms

Loss rate: 0.00%

-- Flow 3:

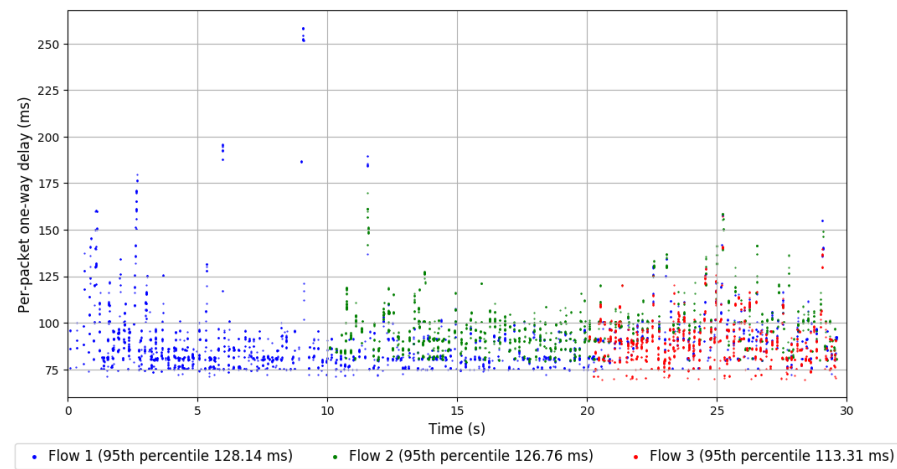
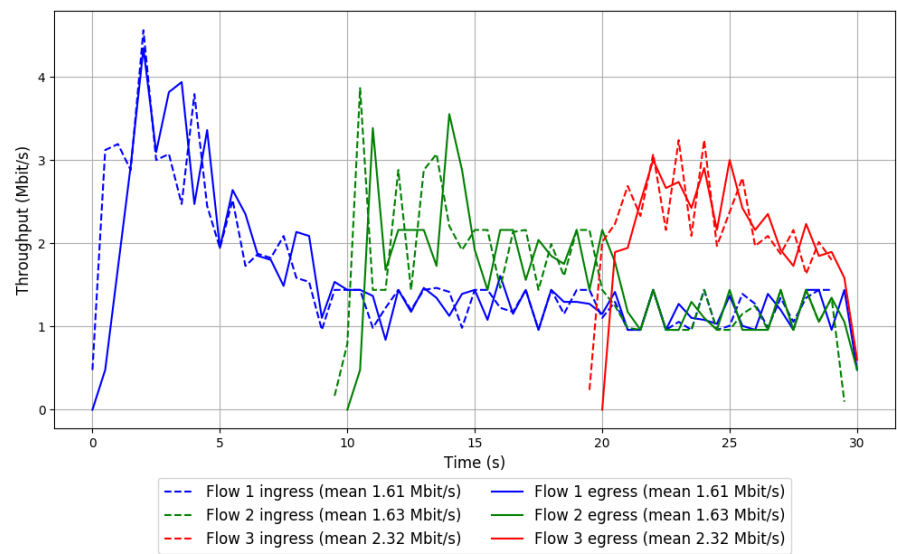
Average throughput: 2.32 Mbit/s

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

Loss rate: 0.00%



Run 9: Report of Indigo — Data Link

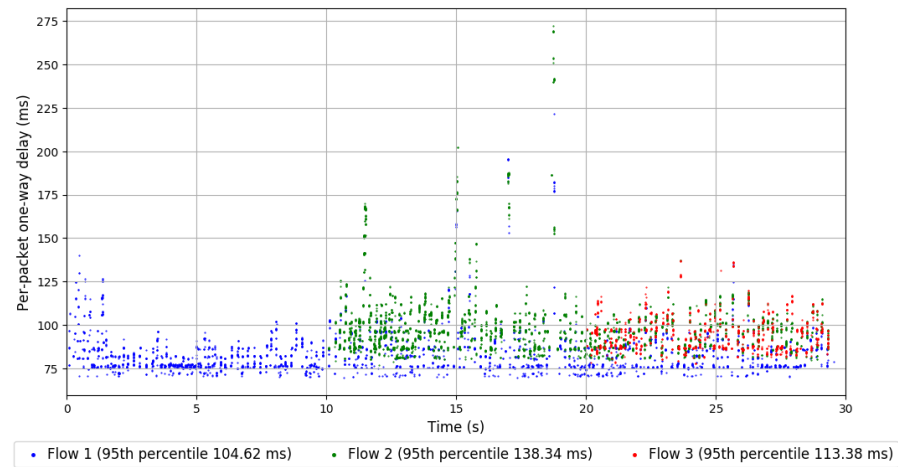
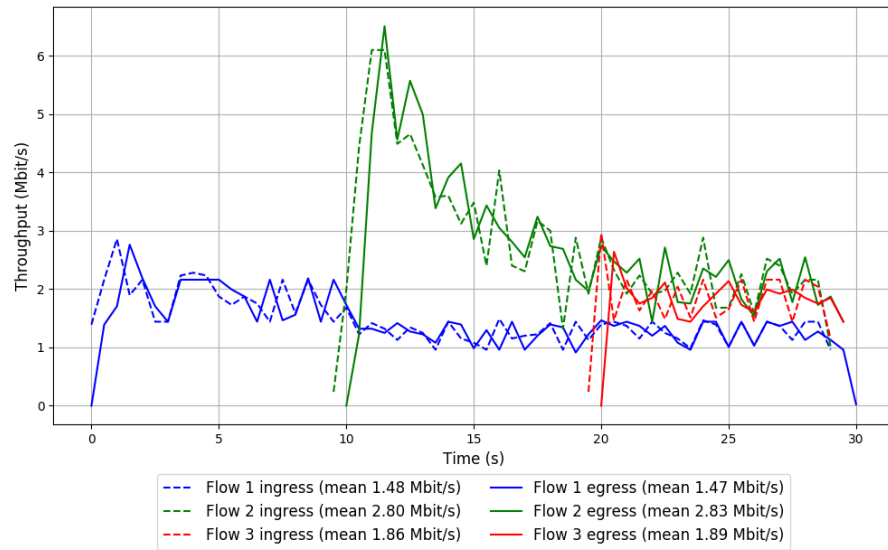


Run 10: Statistics of Indigo

Start at: 2018-05-24 12:27:13  
End at: 2018-05-24 12:27:43  
Local clock offset: 3.836 ms  
Remote clock offset: -3.733 ms

# Below is generated by plot.py at 2018-05-24 12:45:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.91 Mbit/s  
95th percentile per-packet one-way delay: 116.846 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 1.47 Mbit/s  
95th percentile per-packet one-way delay: 104.624 ms  
Loss rate: 0.52%  
-- Flow 2:  
Average throughput: 2.83 Mbit/s  
95th percentile per-packet one-way delay: 138.343 ms  
Loss rate: 0.26%  
-- Flow 3:  
Average throughput: 1.89 Mbit/s  
95th percentile per-packet one-way delay: 113.382 ms  
Loss rate: 0.88%

# Run 10: Report of Indigo — Data Link

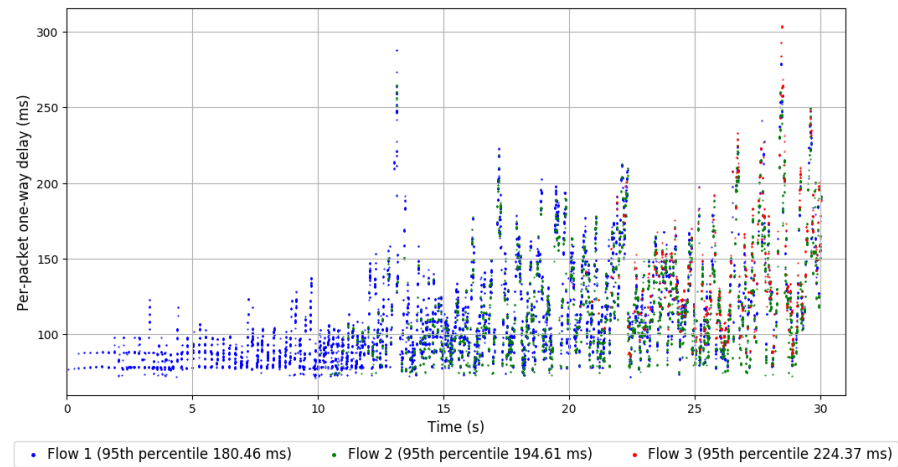
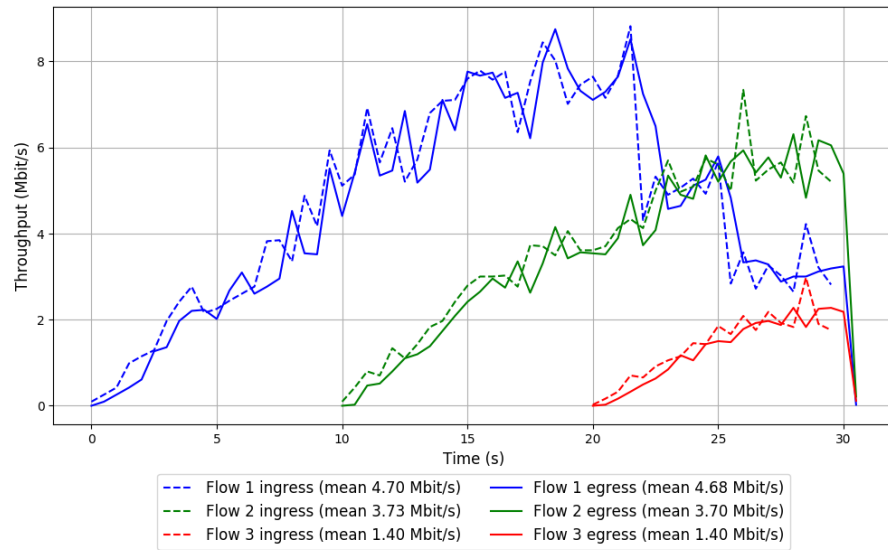


Run 1: Statistics of LEDBAT

Start at: 2018-05-24 09:30:58  
End at: 2018-05-24 09:31:28  
Local clock offset: -4.11 ms  
Remote clock offset: -1.739 ms

# Below is generated by plot.py at 2018-05-24 12:45:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 7.60 Mbit/s  
95th percentile per-packet one-way delay: 189.376 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 4.68 Mbit/s  
95th percentile per-packet one-way delay: 180.456 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 3.70 Mbit/s  
95th percentile per-packet one-way delay: 194.611 ms  
Loss rate: 0.87%  
-- Flow 3:  
Average throughput: 1.40 Mbit/s  
95th percentile per-packet one-way delay: 224.365 ms  
Loss rate: 0.76%

# Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-05-24 09:51:57

End at: 2018-05-24 09:52:27

Local clock offset: 5.858 ms

Remote clock offset: -0.99 ms

# Below is generated by plot.py at 2018-05-24 12:45:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 9.82 Mbit/s

95th percentile per-packet one-way delay: 179.918 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 6.70 Mbit/s

95th percentile per-packet one-way delay: 174.857 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 4.04 Mbit/s

95th percentile per-packet one-way delay: 180.060 ms

Loss rate: 0.53%

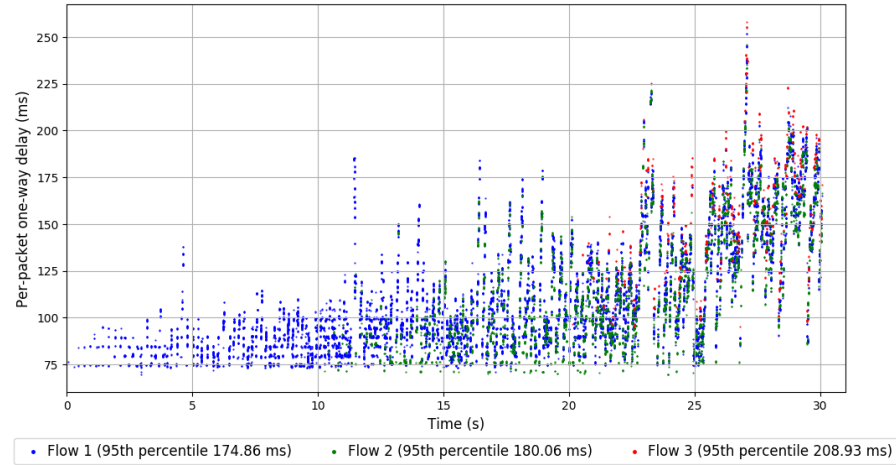
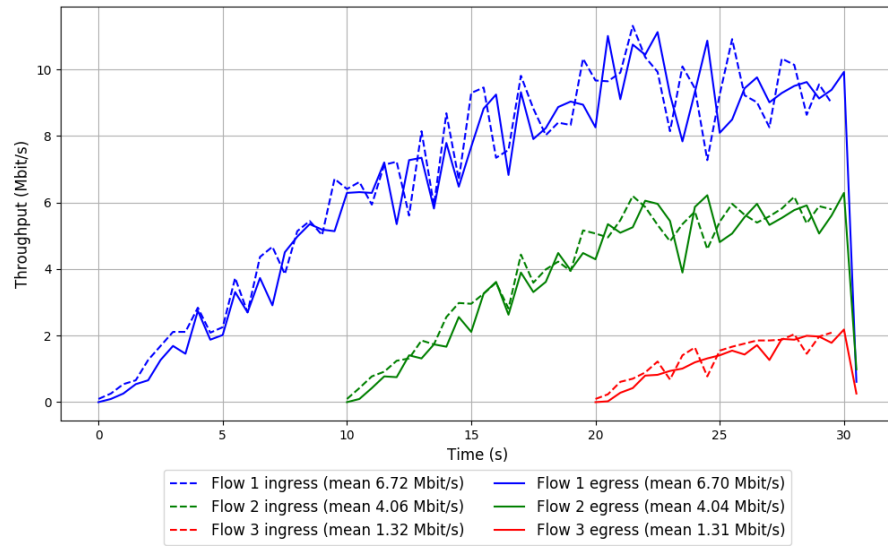
-- Flow 3:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 208.934 ms

Loss rate: 0.89%

## Run 2: Report of LEDBAT — Data Link



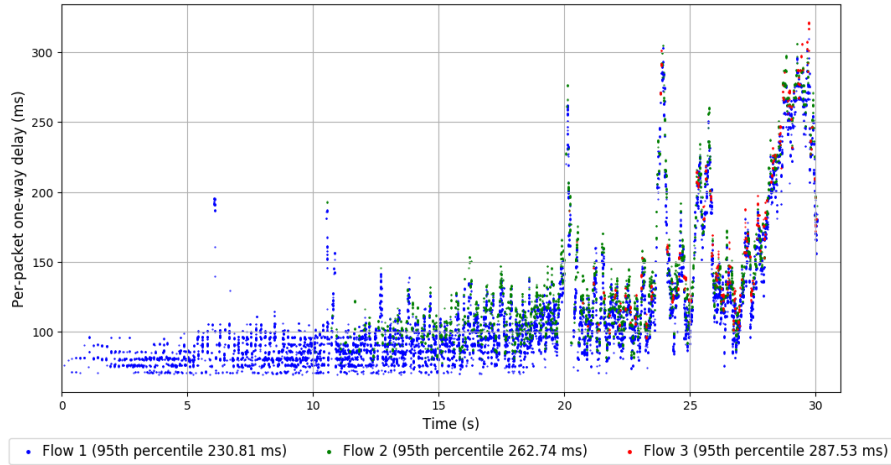
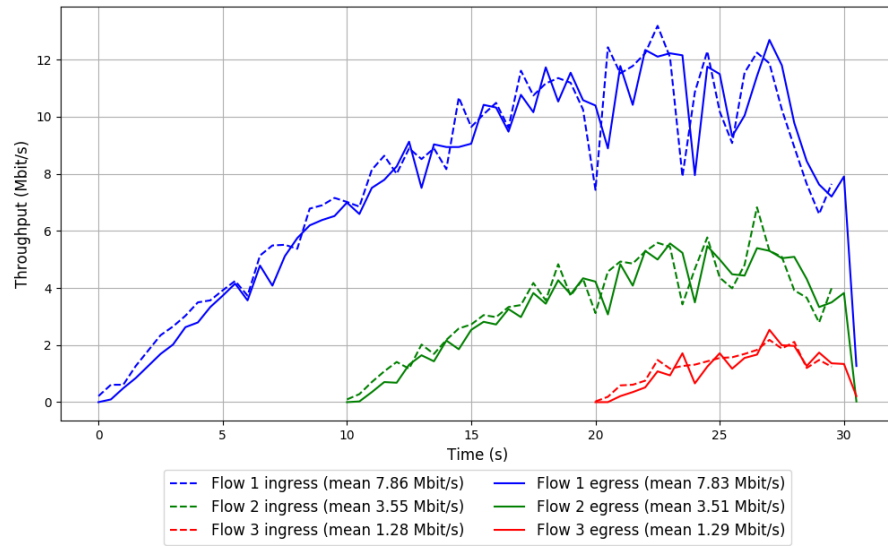
Run 3: Statistics of LEDBAT

Start at: 2018-05-24 10:12:58  
End at: 2018-05-24 10:13:28  
Local clock offset: -1.851 ms  
Remote clock offset: -0.912 ms

# Below is generated by plot.py at 2018-05-24 12:45:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 10.59 Mbit/s  
95th percentile per-packet one-way delay: 246.328 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 7.83 Mbit/s  
95th percentile per-packet one-way delay: 230.809 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 3.51 Mbit/s  
95th percentile per-packet one-way delay: 262.742 ms  
Loss rate: 1.11%  
-- Flow 3:  
Average throughput: 1.29 Mbit/s  
95th percentile per-packet one-way delay: 287.528 ms  
Loss rate: 1.29%



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

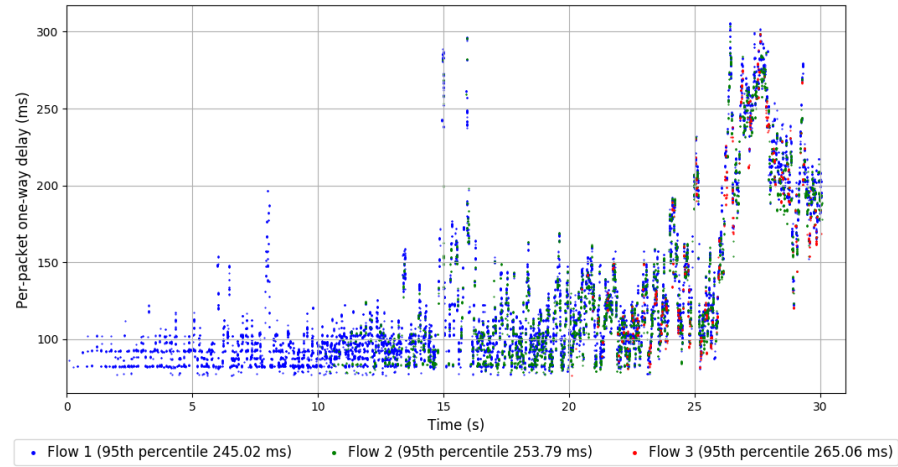
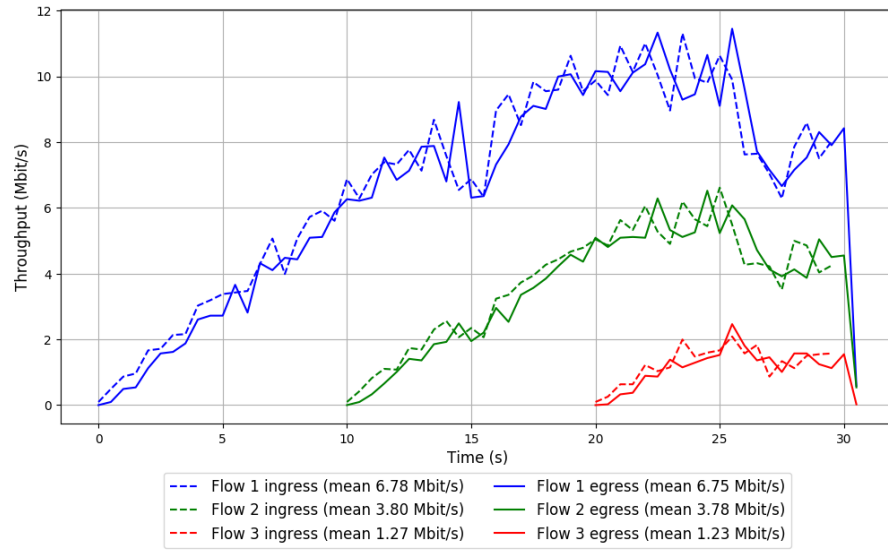


Run 4: Statistics of LEDBAT

Start at: 2018-05-24 10:34:00  
End at: 2018-05-24 10:34:30  
Local clock offset: 0.955 ms  
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2018-05-24 12:45:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 9.67 Mbit/s  
95th percentile per-packet one-way delay: 249.007 ms  
Loss rate: 0.66%  
-- Flow 1:  
Average throughput: 6.75 Mbit/s  
95th percentile per-packet one-way delay: 245.023 ms  
Loss rate: 0.54%  
-- Flow 2:  
Average throughput: 3.78 Mbit/s  
95th percentile per-packet one-way delay: 253.792 ms  
Loss rate: 0.59%  
-- Flow 3:  
Average throughput: 1.23 Mbit/s  
95th percentile per-packet one-way delay: 265.061 ms  
Loss rate: 2.98%

# Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-05-24 10:55:03

End at: 2018-05-24 10:55:33

Local clock offset: 4.698 ms

Remote clock offset: 5.409 ms

# Below is generated by plot.py at 2018-05-24 12:45:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 7.57 Mbit/s

95th percentile per-packet one-way delay: 190.348 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 4.41 Mbit/s

95th percentile per-packet one-way delay: 185.059 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 4.05 Mbit/s

95th percentile per-packet one-way delay: 199.652 ms

Loss rate: 0.55%

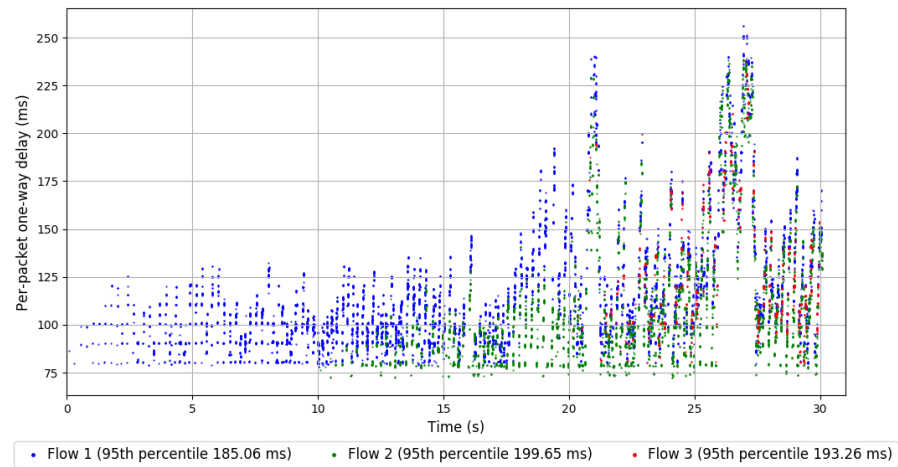
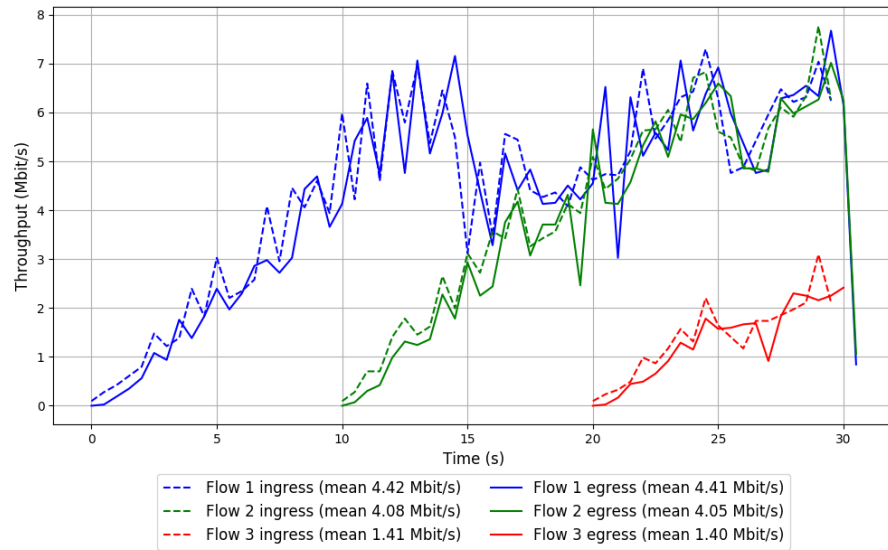
-- Flow 3:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 193.265 ms

Loss rate: 1.92%

## Run 5: Report of LEDBAT — Data Link

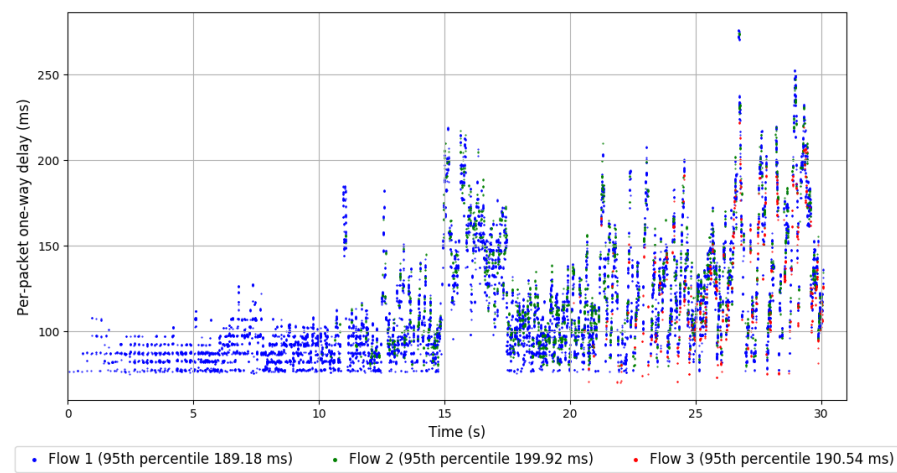
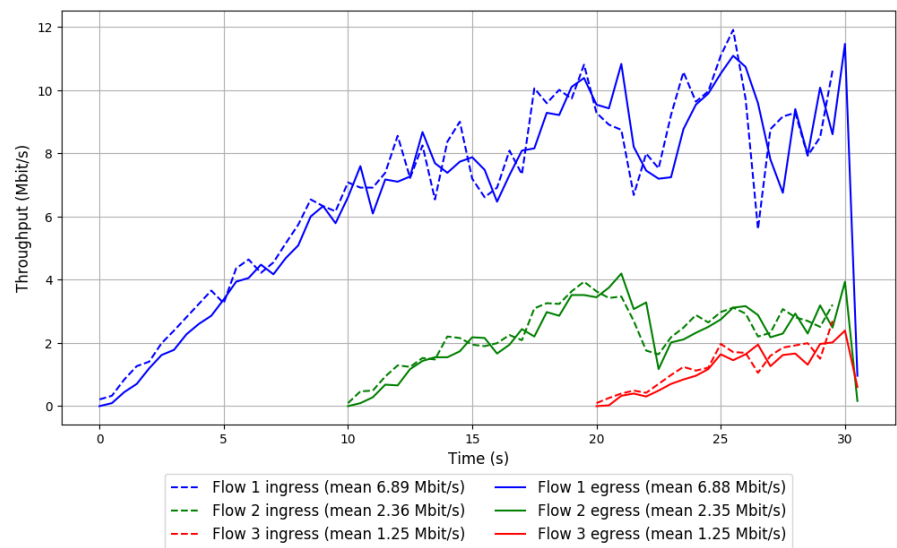


Run 6: Statistics of LEDBAT

Start at: 2018-05-24 11:16:04  
End at: 2018-05-24 11:16:34  
Local clock offset: 3.558 ms  
Remote clock offset: 10.232 ms

# Below is generated by plot.py at 2018-05-24 12:45:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.86 Mbit/s  
95th percentile per-packet one-way delay: 192.152 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 6.88 Mbit/s  
95th percentile per-packet one-way delay: 189.175 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 2.35 Mbit/s  
95th percentile per-packet one-way delay: 199.921 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 1.25 Mbit/s  
95th percentile per-packet one-way delay: 190.545 ms  
Loss rate: 0.66%

Run 6: Report of LEDBAT — Data Link



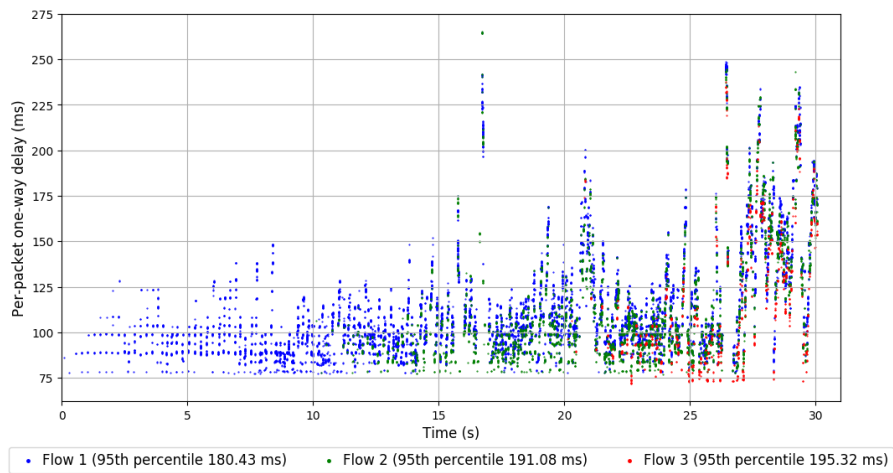
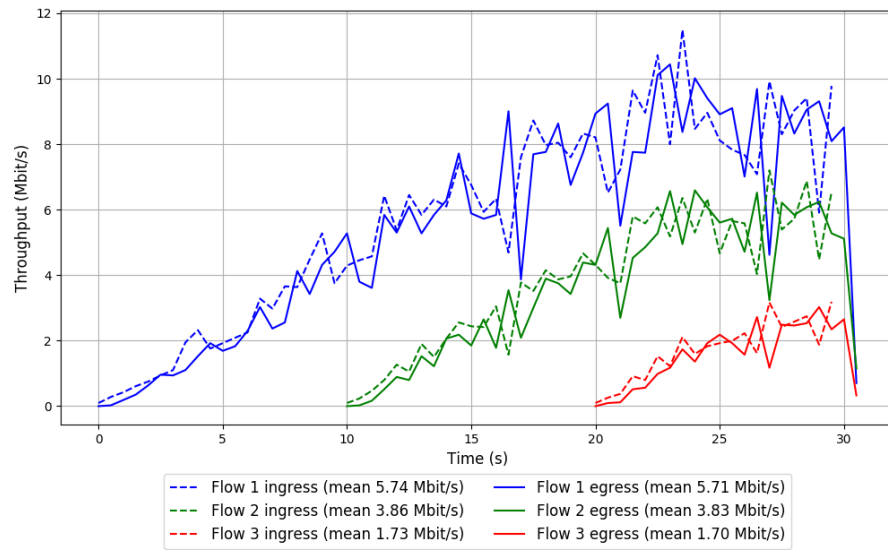
Run 7: Statistics of LEDBAT

Start at: 2018-05-24 11:37:07  
End at: 2018-05-24 11:37:37  
Local clock offset: 3.02 ms  
Remote clock offset: 13.241 ms

# Below is generated by plot.py at 2018-05-24 12:45:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.82 Mbit/s  
95th percentile per-packet one-way delay: 184.212 ms  
Loss rate: 0.69%  
-- Flow 1:  
Average throughput: 5.71 Mbit/s  
95th percentile per-packet one-way delay: 180.430 ms  
Loss rate: 0.50%  
-- Flow 2:  
Average throughput: 3.83 Mbit/s  
95th percentile per-packet one-way delay: 191.076 ms  
Loss rate: 0.88%  
-- Flow 3:  
Average throughput: 1.70 Mbit/s  
95th percentile per-packet one-way delay: 195.317 ms  
Loss rate: 1.70%



## Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-05-24 11:58:16

End at: 2018-05-24 11:58:46

Local clock offset: 3.352 ms

Remote clock offset: 9.138 ms

# Below is generated by plot.py at 2018-05-24 12:45:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 9.66 Mbit/s

95th percentile per-packet one-way delay: 179.212 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 6.90 Mbit/s

95th percentile per-packet one-way delay: 170.592 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 3.55 Mbit/s

95th percentile per-packet one-way delay: 186.689 ms

Loss rate: 0.21%

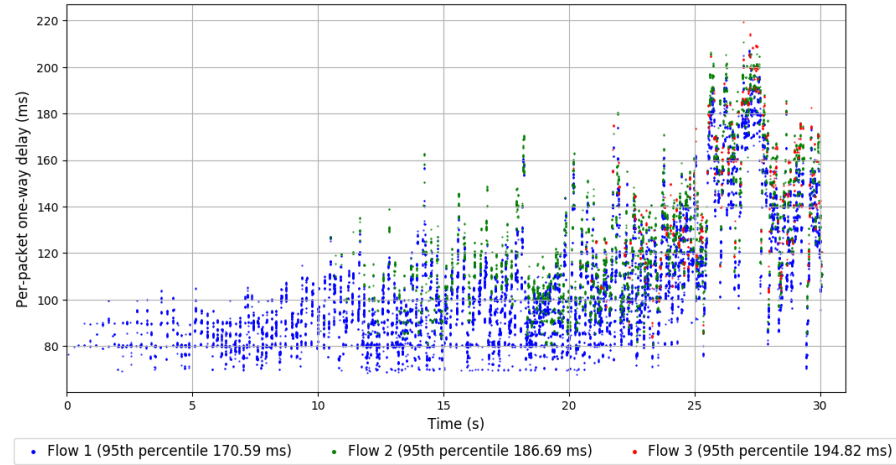
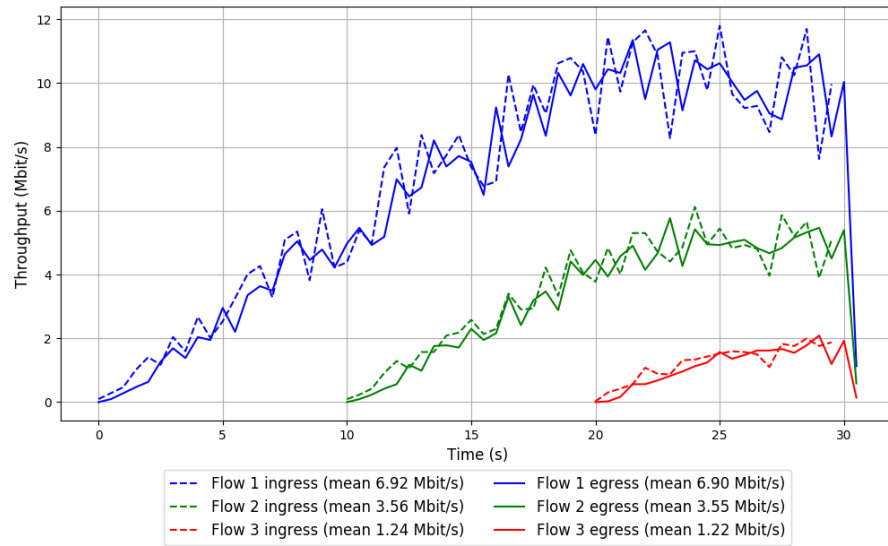
-- Flow 3:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 194.821 ms

Loss rate: 2.46%

## Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-05-24 12:19:20

End at: 2018-05-24 12:19:50

Local clock offset: 3.747 ms

Remote clock offset: -2.09 ms

# Below is generated by plot.py at 2018-05-24 12:45:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 10.86 Mbit/s

95th percentile per-packet one-way delay: 171.086 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 7.67 Mbit/s

95th percentile per-packet one-way delay: 161.597 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 181.980 ms

Loss rate: 0.76%

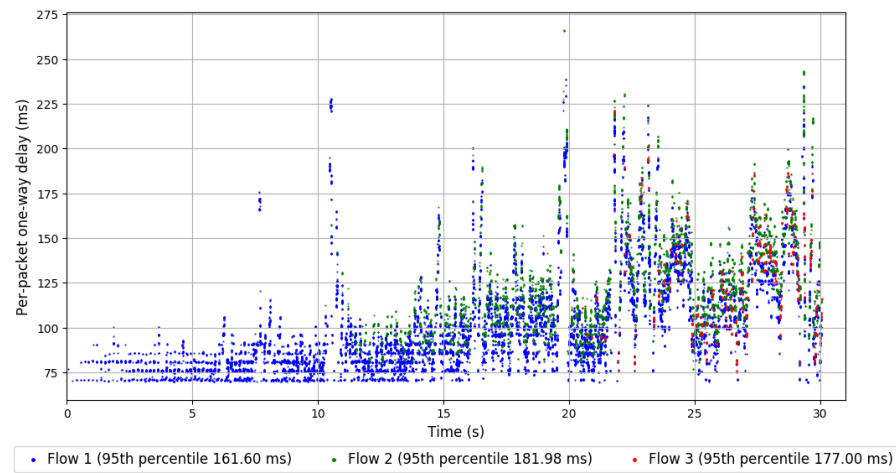
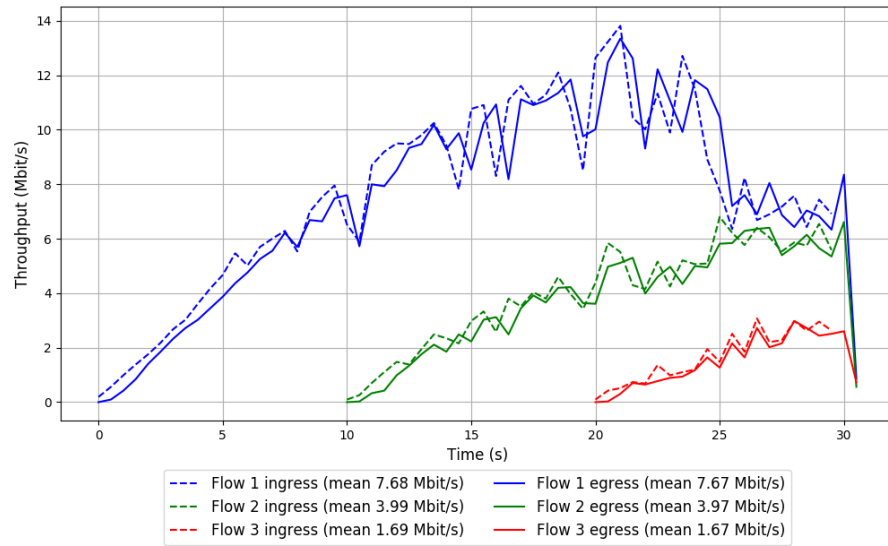
-- Flow 3:

Average throughput: 1.67 Mbit/s

95th percentile per-packet one-way delay: 176.998 ms

Loss rate: 1.74%

## Run 9: Report of LEDBAT — Data Link

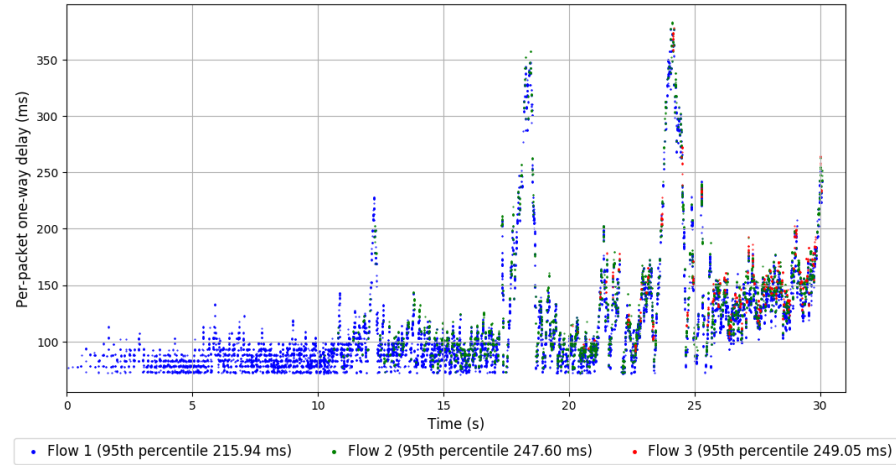
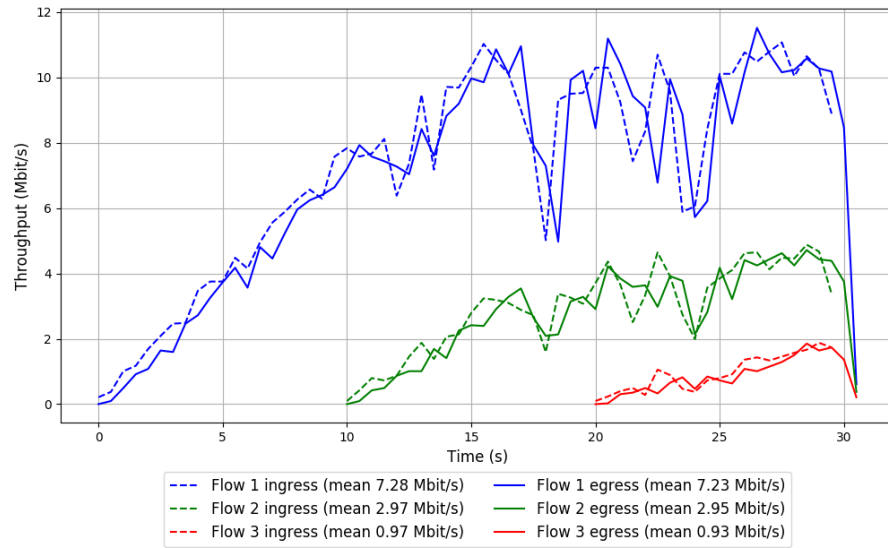


Run 10: Statistics of LEDBAT

Start at: 2018-05-24 12:40:20  
End at: 2018-05-24 12:40:50  
Local clock offset: 2.633 ms  
Remote clock offset: -5.841 ms

# Below is generated by plot.py at 2018-05-24 12:45:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 9.51 Mbit/s  
95th percentile per-packet one-way delay: 224.100 ms  
Loss rate: 0.80%  
-- Flow 1:  
Average throughput: 7.23 Mbit/s  
95th percentile per-packet one-way delay: 215.942 ms  
Loss rate: 0.72%  
-- Flow 2:  
Average throughput: 2.95 Mbit/s  
95th percentile per-packet one-way delay: 247.602 ms  
Loss rate: 0.65%  
-- Flow 3:  
Average throughput: 0.93 Mbit/s  
95th percentile per-packet one-way delay: 249.046 ms  
Loss rate: 3.55%

## Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-05-24 09:28:21

End at: 2018-05-24 09:28:51

Local clock offset: -7.141 ms

Remote clock offset: -1.53 ms

# Below is generated by plot.py at 2018-05-24 12:46:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 11.67 Mbit/s

95th percentile per-packet one-way delay: 1752.743 ms

Loss rate: 10.41%

-- Flow 1:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 1629.767 ms

Loss rate: 6.55%

-- Flow 2:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 1704.951 ms

Loss rate: 9.37%

-- Flow 3:

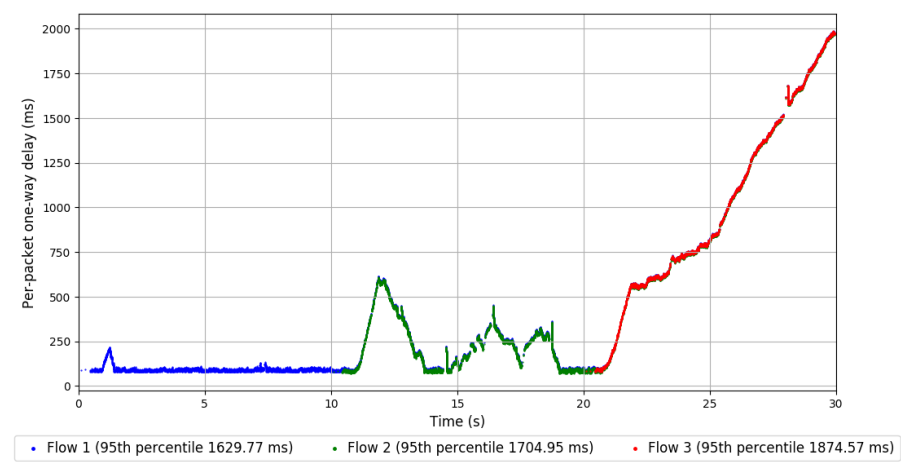
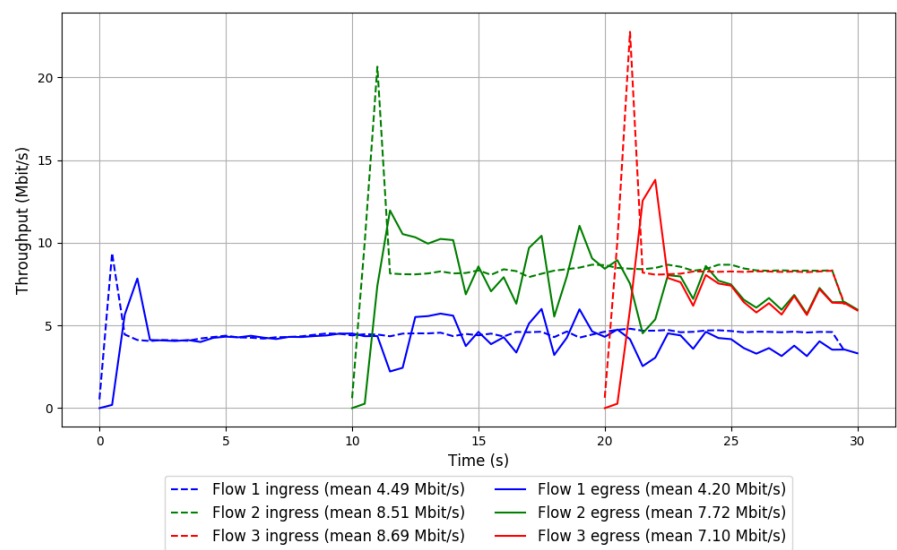
Average throughput: 7.10 Mbit/s

95th percentile per-packet one-way delay: 1874.571 ms

Loss rate: 18.46%



Run 1: Report of PCC-Allegro — Data Link

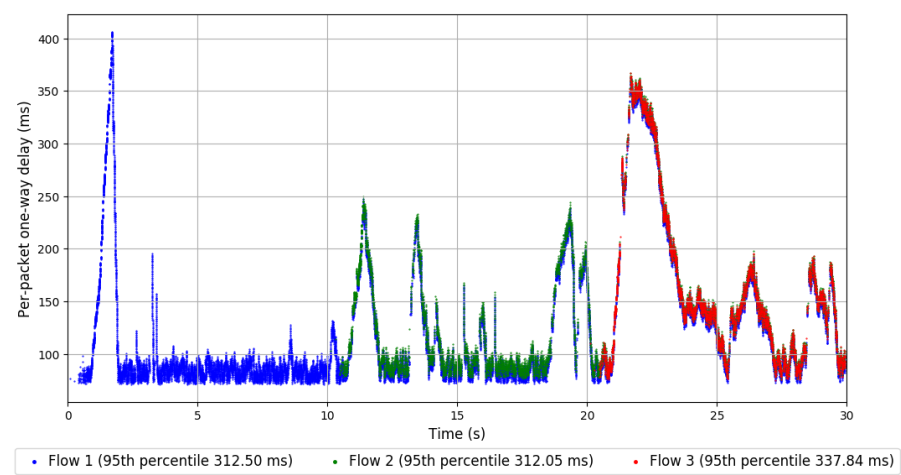
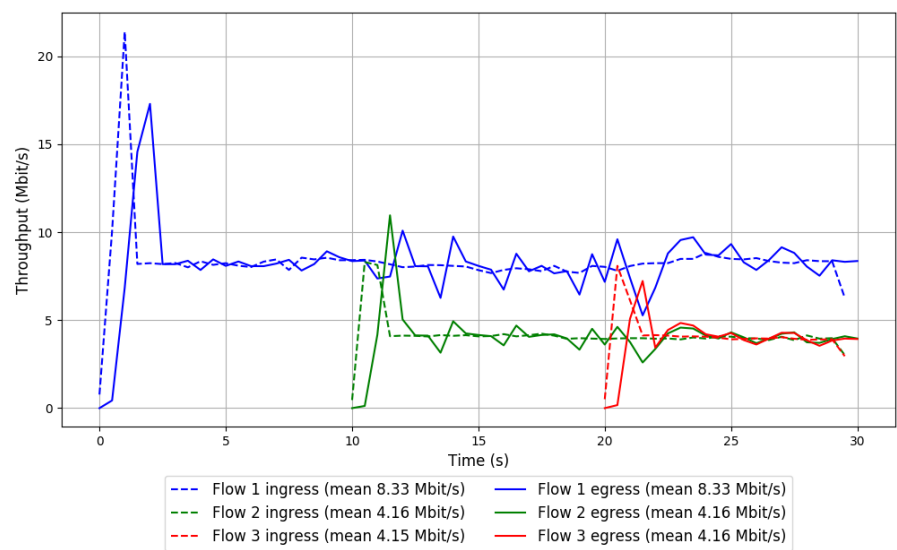


Run 2: Statistics of PCC-Allegro

Start at: 2018-05-24 09:49:20  
End at: 2018-05-24 09:49:50  
Local clock offset: 5.232 ms  
Remote clock offset: -1.103 ms

# Below is generated by plot.py at 2018-05-24 12:46:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.45 Mbit/s  
95th percentile per-packet one-way delay: 319.700 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 8.33 Mbit/s  
95th percentile per-packet one-way delay: 312.498 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 4.16 Mbit/s  
95th percentile per-packet one-way delay: 312.046 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 4.16 Mbit/s  
95th percentile per-packet one-way delay: 337.842 ms  
Loss rate: 0.21%

Run 2: Report of PCC-Allegro — Data Link

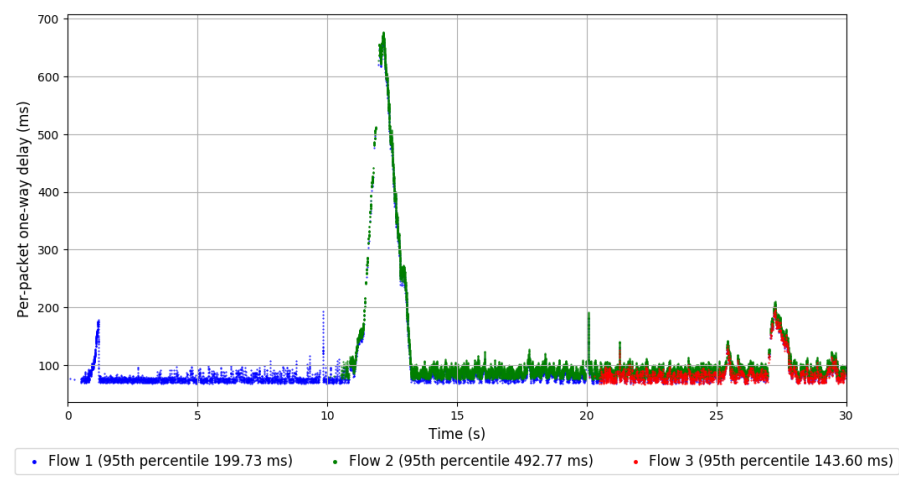
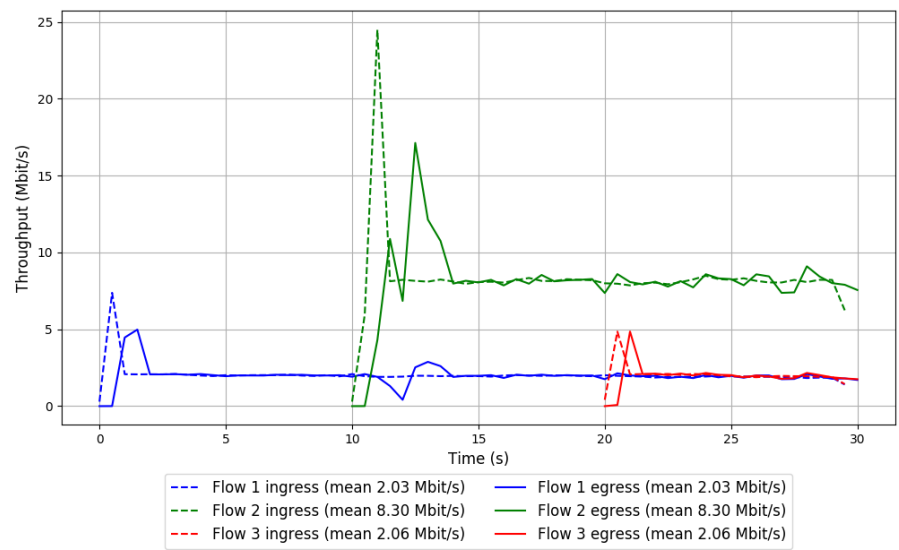


Run 3: Statistics of PCC-Allegro

Start at: 2018-05-24 10:10:21  
End at: 2018-05-24 10:10:51  
Local clock offset: -1.472 ms  
Remote clock offset: -1.054 ms

# Below is generated by plot.py at 2018-05-24 12:46:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.22 Mbit/s  
95th percentile per-packet one-way delay: 399.272 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 2.03 Mbit/s  
95th percentile per-packet one-way delay: 199.730 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 8.30 Mbit/s  
95th percentile per-packet one-way delay: 492.766 ms  
Loss rate: 0.17%  
-- Flow 3:  
Average throughput: 2.06 Mbit/s  
95th percentile per-packet one-way delay: 143.598 ms  
Loss rate: 0.24%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-05-24 10:31:22

End at: 2018-05-24 10:31:52

Local clock offset: -0.028 ms

Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2018-05-24 12:46:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 14.46 Mbit/s

95th percentile per-packet one-way delay: 617.243 ms

Loss rate: 2.42%

-- Flow 1:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 586.958 ms

Loss rate: 1.78%

-- Flow 2:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 625.885 ms

Loss rate: 2.59%

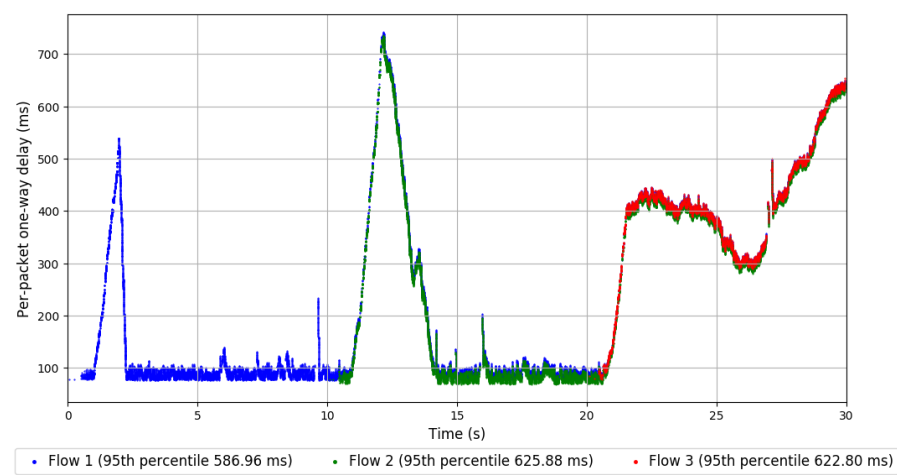
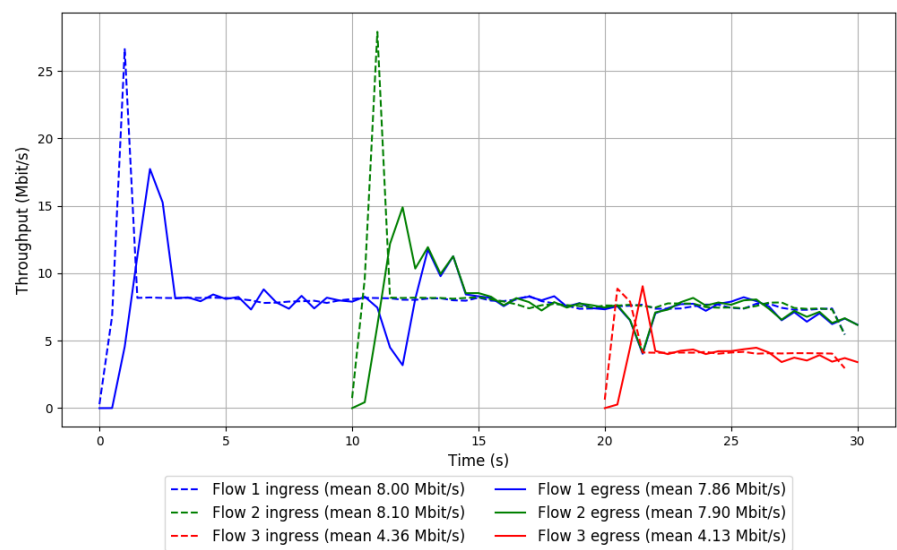
-- Flow 3:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 622.804 ms

Loss rate: 5.36%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-05-24 10:52:26

End at: 2018-05-24 10:52:56

Local clock offset: 4.37 ms

Remote clock offset: 4.233 ms

# Below is generated by plot.py at 2018-05-24 12:46:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 12.12 Mbit/s

95th percentile per-packet one-way delay: 4033.685 ms

Loss rate: 15.16%

-- Flow 1:

Average throughput: 1.81 Mbit/s

95th percentile per-packet one-way delay: 3398.368 ms

Loss rate: 11.38%

-- Flow 2:

Average throughput: 15.50 Mbit/s

95th percentile per-packet one-way delay: 4079.453 ms

Loss rate: 15.79%

-- Flow 3:

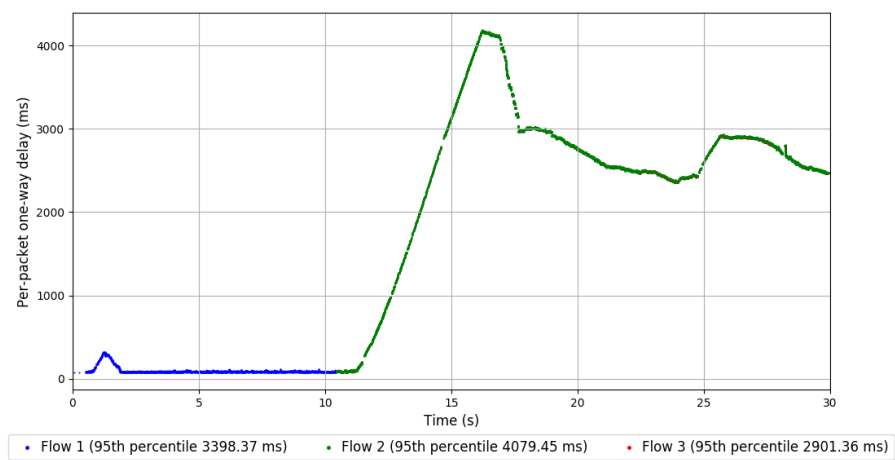
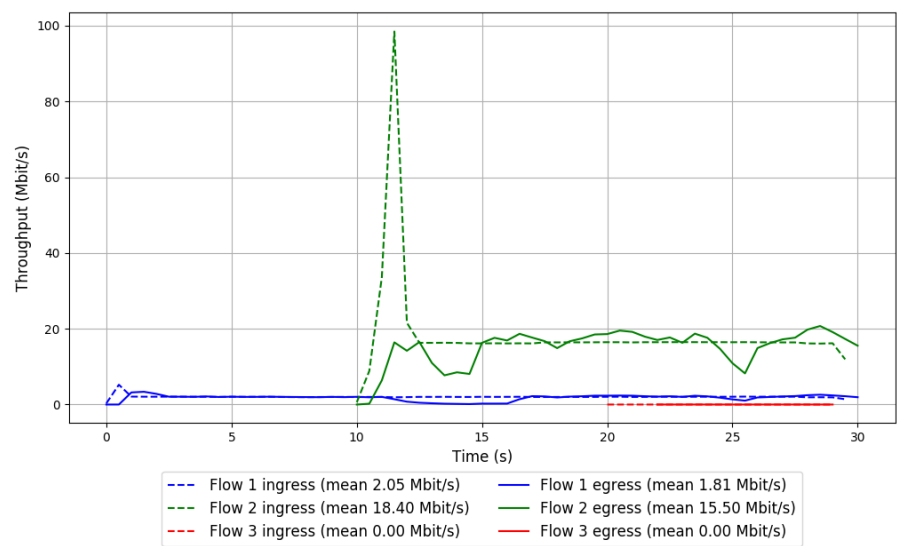
Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 2901.359 ms

Loss rate: 10.99%



Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-05-24 11:13:27

End at: 2018-05-24 11:13:57

Local clock offset: 3.613 ms

Remote clock offset: 9.791 ms

# Below is generated by plot.py at 2018-05-24 12:46:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 11.10 Mbit/s

95th percentile per-packet one-way delay: 441.687 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 8.82 Mbit/s

95th percentile per-packet one-way delay: 524.410 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 139.615 ms

Loss rate: 0.09%

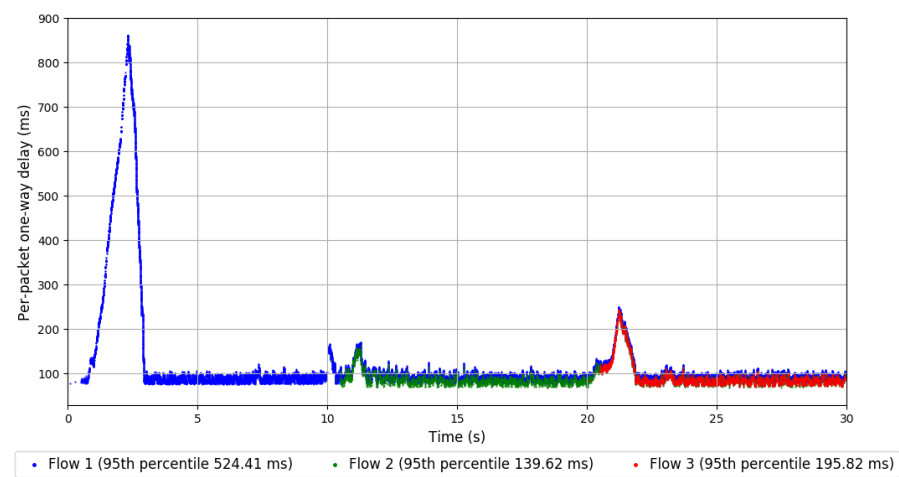
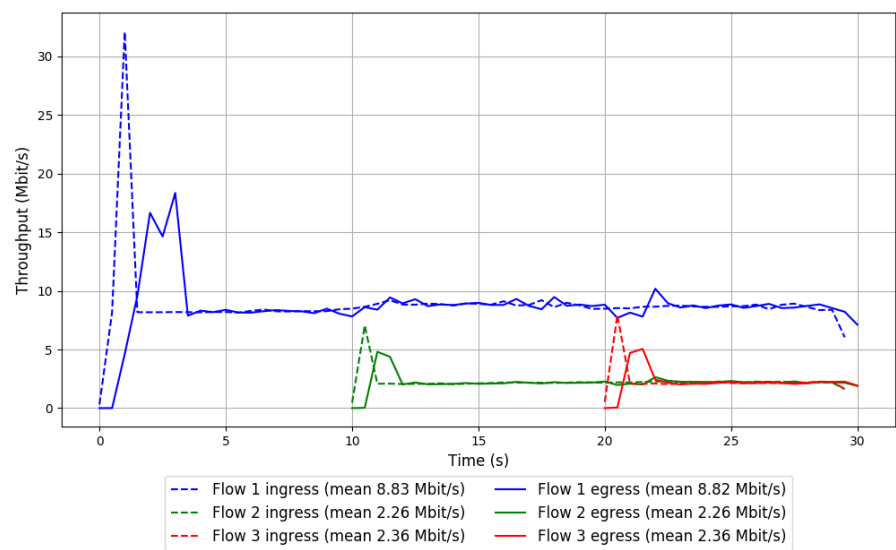
-- Flow 3:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 195.823 ms

Loss rate: 0.16%

Run 6: Report of PCC-Allegro — Data Link

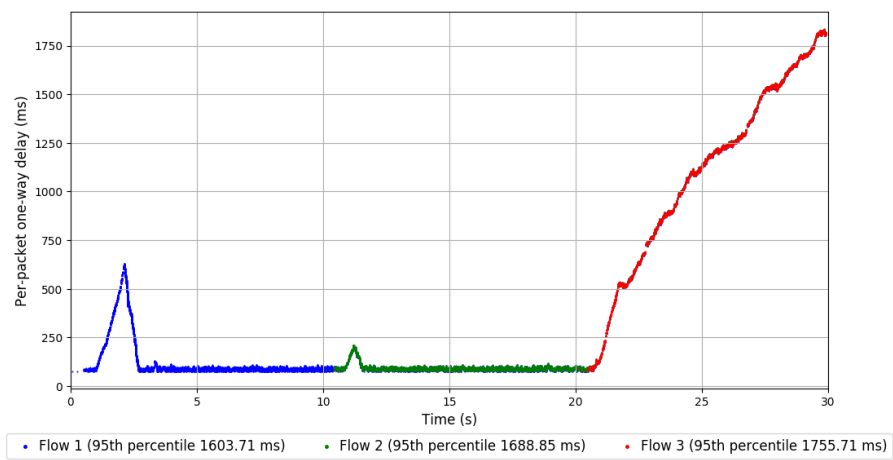
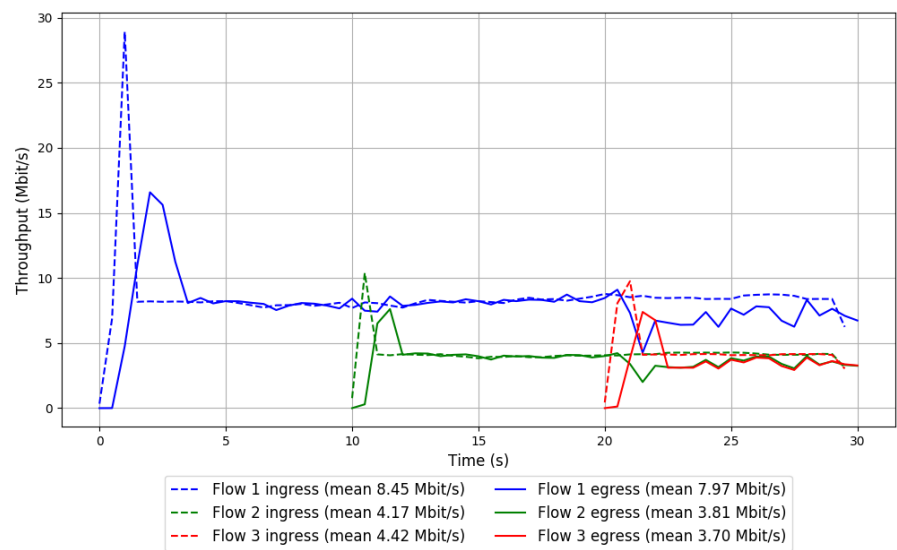


Run 7: Statistics of PCC-Allegro

Start at: 2018-05-24 11:34:29  
End at: 2018-05-24 11:34:59  
Local clock offset: 3.092 ms  
Remote clock offset: 12.887 ms

# Below is generated by plot.py at 2018-05-24 12:46:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 11.72 Mbit/s  
95th percentile per-packet one-way delay: 1655.039 ms  
Loss rate: 7.75%  
-- Flow 1:  
Average throughput: 7.97 Mbit/s  
95th percentile per-packet one-way delay: 1603.707 ms  
Loss rate: 5.85%  
-- Flow 2:  
Average throughput: 3.81 Mbit/s  
95th percentile per-packet one-way delay: 1688.853 ms  
Loss rate: 8.83%  
-- Flow 3:  
Average throughput: 3.70 Mbit/s  
95th percentile per-packet one-way delay: 1755.712 ms  
Loss rate: 16.67%

Run 7: Report of PCC-Allegro — Data Link

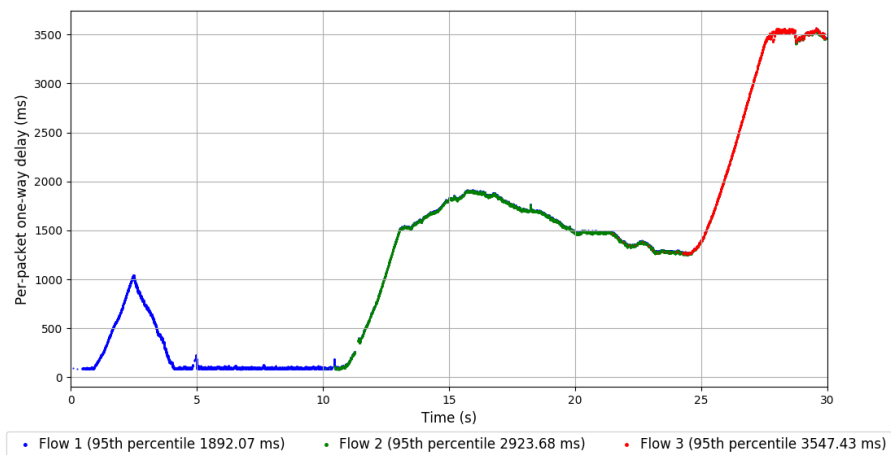
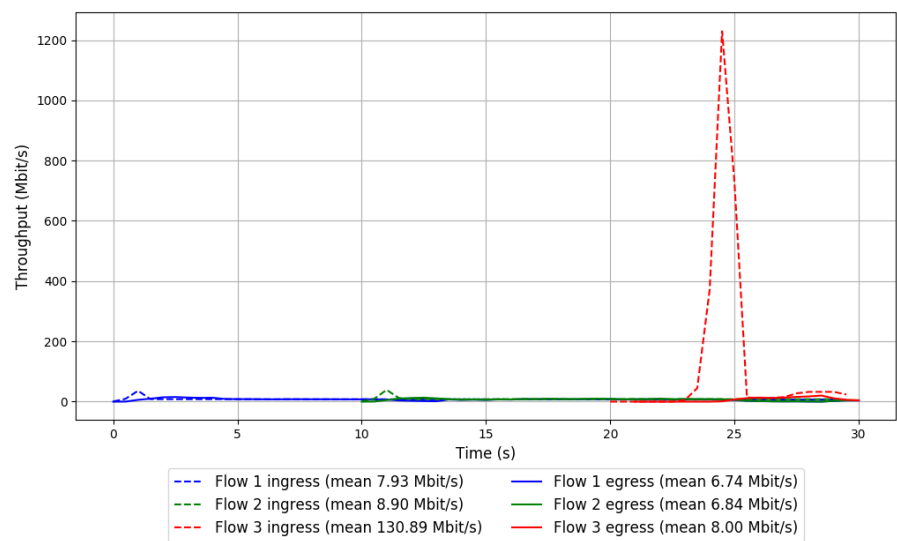


Run 8: Statistics of PCC-Allegro

Start at: 2018-05-24 11:55:36  
End at: 2018-05-24 11:56:06  
Local clock offset: 3.459 ms  
Remote clock offset: 13.339 ms

# Below is generated by plot.py at 2018-05-24 12:46:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 13.54 Mbit/s  
95th percentile per-packet one-way delay: 3514.079 ms  
Loss rate: 76.26%  
-- Flow 1:  
Average throughput: 6.74 Mbit/s  
95th percentile per-packet one-way delay: 1892.065 ms  
Loss rate: 15.11%  
-- Flow 2:  
Average throughput: 6.84 Mbit/s  
95th percentile per-packet one-way delay: 2923.679 ms  
Loss rate: 23.19%  
-- Flow 3:  
Average throughput: 8.00 Mbit/s  
95th percentile per-packet one-way delay: 3547.435 ms  
Loss rate: 94.78%

Run 8: Report of PCC-Allegro — Data Link



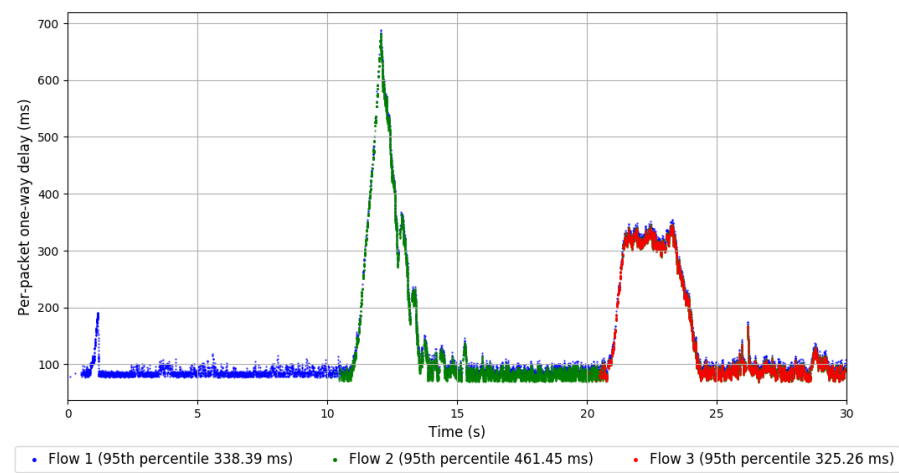
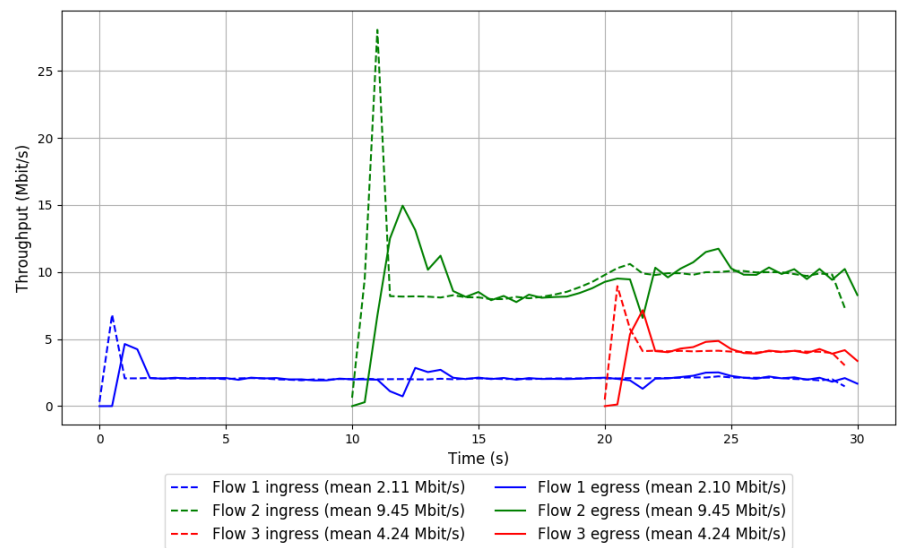
Run 9: Statistics of PCC-Allegro

Start at: 2018-05-24 12:16:43  
End at: 2018-05-24 12:17:13  
Local clock offset: 3.558 ms  
Remote clock offset: -1.372 ms

# Below is generated by plot.py at 2018-05-24 12:46:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 9.77 Mbit/s  
95th percentile per-packet one-way delay: 387.651 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 2.10 Mbit/s  
95th percentile per-packet one-way delay: 338.390 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 9.45 Mbit/s  
95th percentile per-packet one-way delay: 461.453 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 4.24 Mbit/s  
95th percentile per-packet one-way delay: 325.256 ms  
Loss rate: 0.26%



Run 9: Report of PCC-Allegro — Data Link

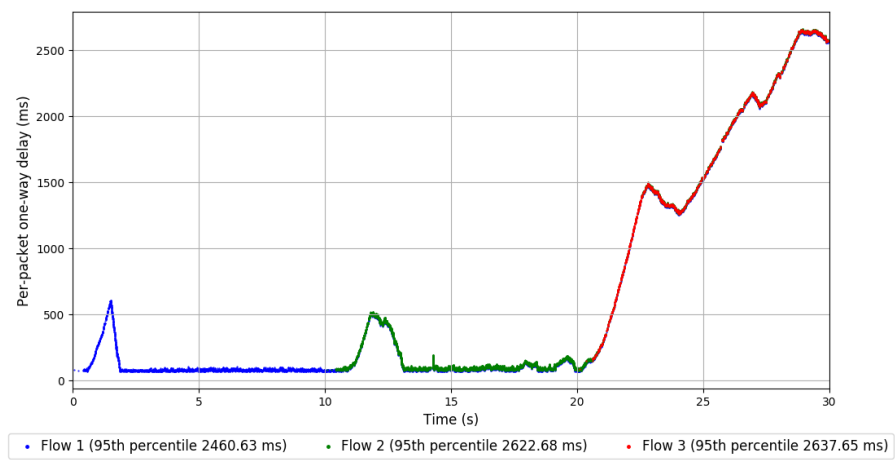
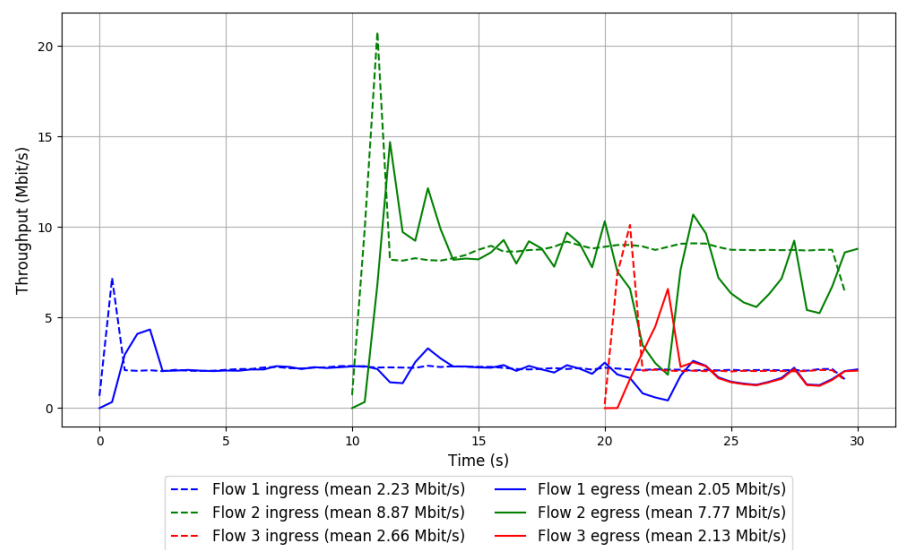


Run 10: Statistics of PCC-Allegro

Start at: 2018-05-24 12:37:43  
End at: 2018-05-24 12:38:13  
Local clock offset: 2.735 ms  
Remote clock offset: -5.406 ms

# Below is generated by plot.py at 2018-05-24 12:46:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 7.92 Mbit/s  
95th percentile per-packet one-way delay: 2617.286 ms  
Loss rate: 12.04%  
-- Flow 1:  
Average throughput: 2.05 Mbit/s  
95th percentile per-packet one-way delay: 2460.633 ms  
Loss rate: 7.98%  
-- Flow 2:  
Average throughput: 7.77 Mbit/s  
95th percentile per-packet one-way delay: 2622.683 ms  
Loss rate: 12.41%  
-- Flow 3:  
Average throughput: 2.13 Mbit/s  
95th percentile per-packet one-way delay: 2637.653 ms  
Loss rate: 19.84%

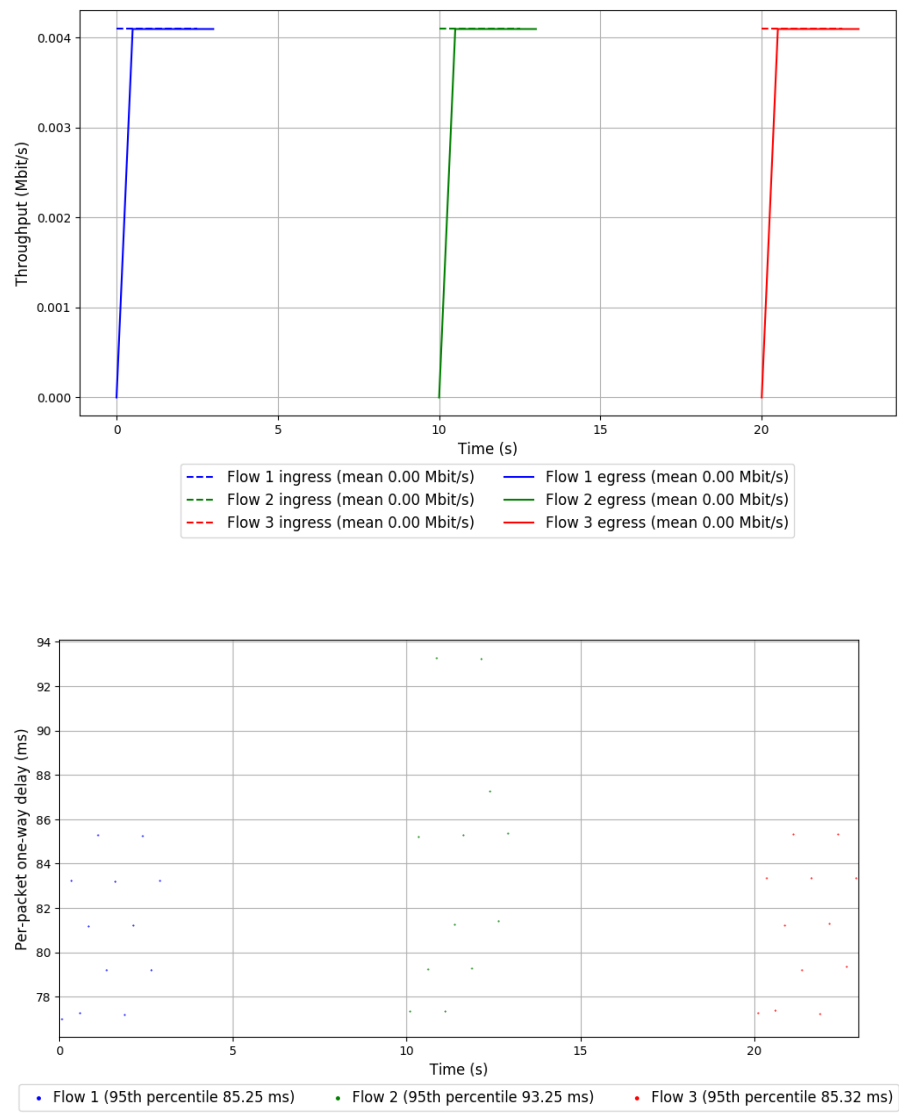
Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-05-24 09:29:40  
End at: 2018-05-24 09:30:10  
Local clock offset: -5.516 ms  
Remote clock offset: -1.646 ms

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

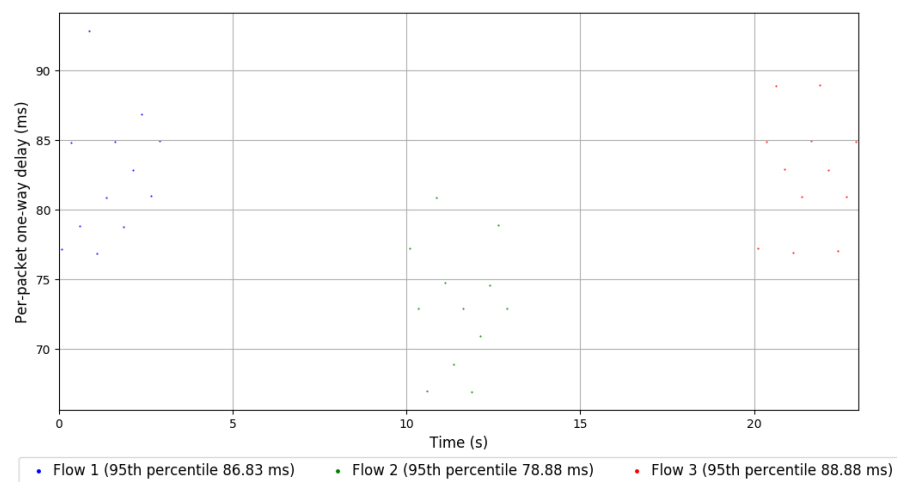
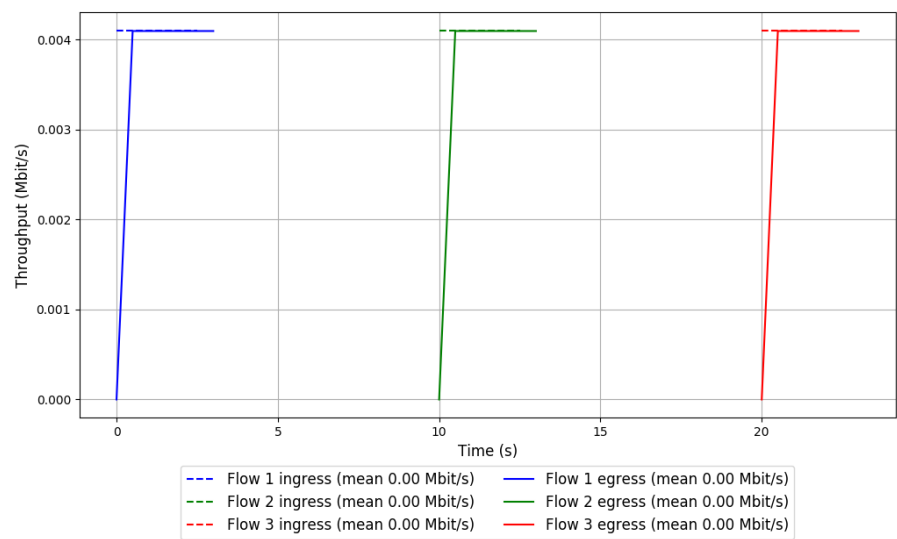
Start at: 2018-05-24 09:50:39

End at: 2018-05-24 09:51:09

Local clock offset: 5.398 ms

Remote clock offset: -1.108 ms

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-05-24 10:11:40

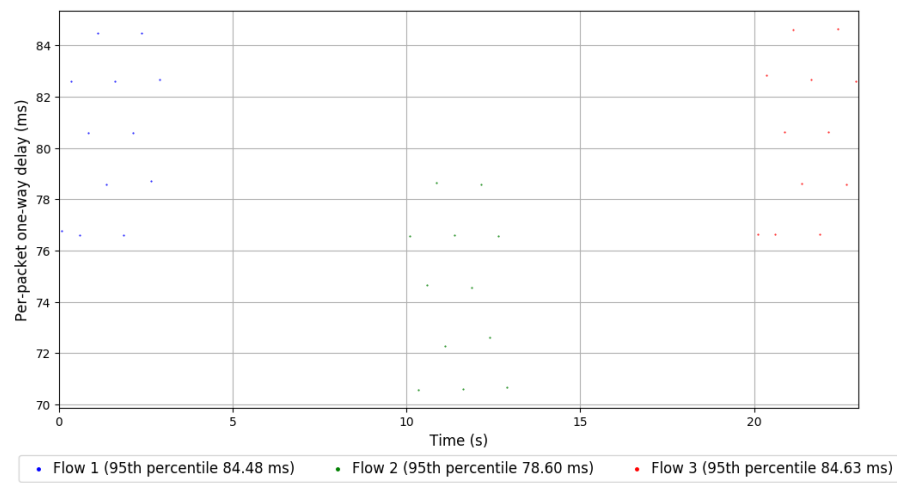
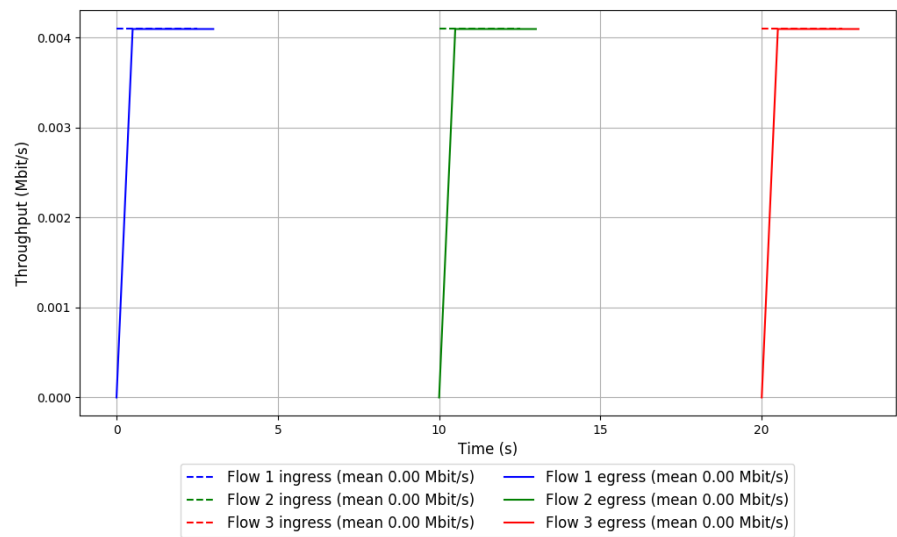
End at: 2018-05-24 10:12:10

Local clock offset: -1.755 ms

Remote clock offset: -1.094 ms



Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

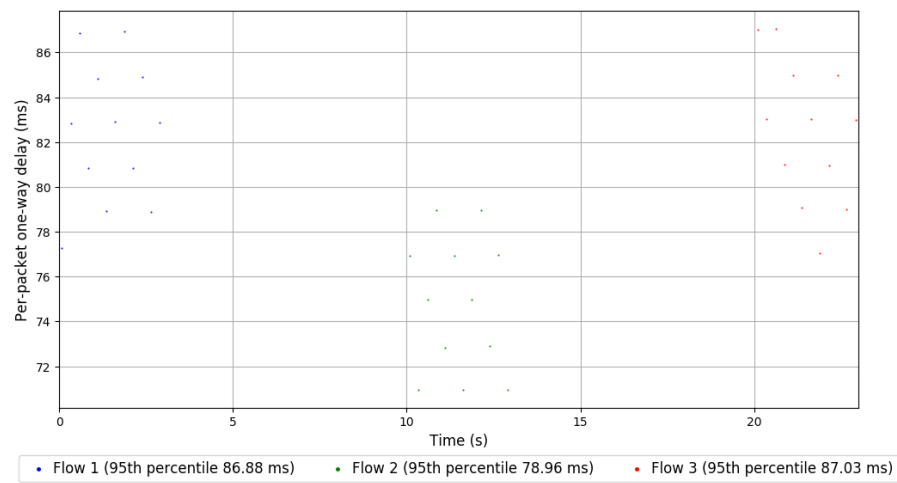
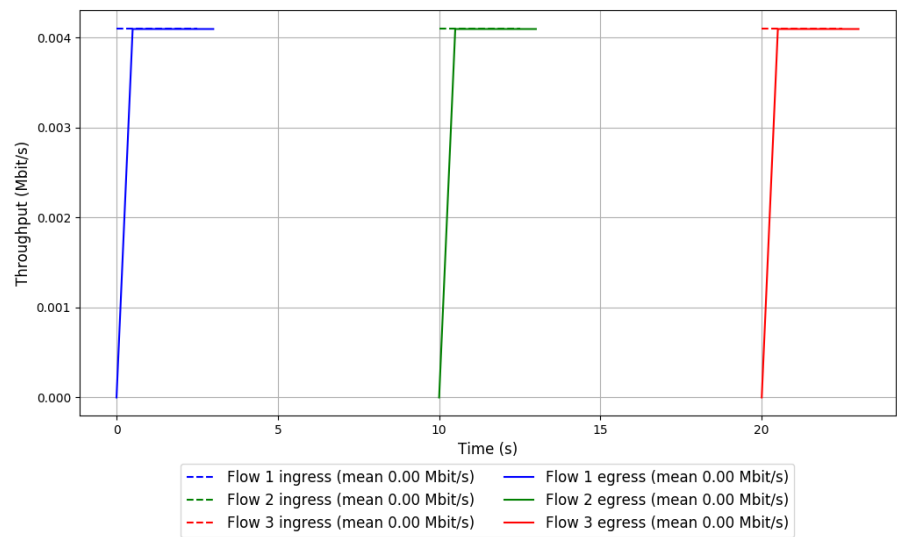
Start at: 2018-05-24 10:32:42

End at: 2018-05-24 10:33:12

Local clock offset: 0.502 ms

Remote clock offset: 0.001 ms

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

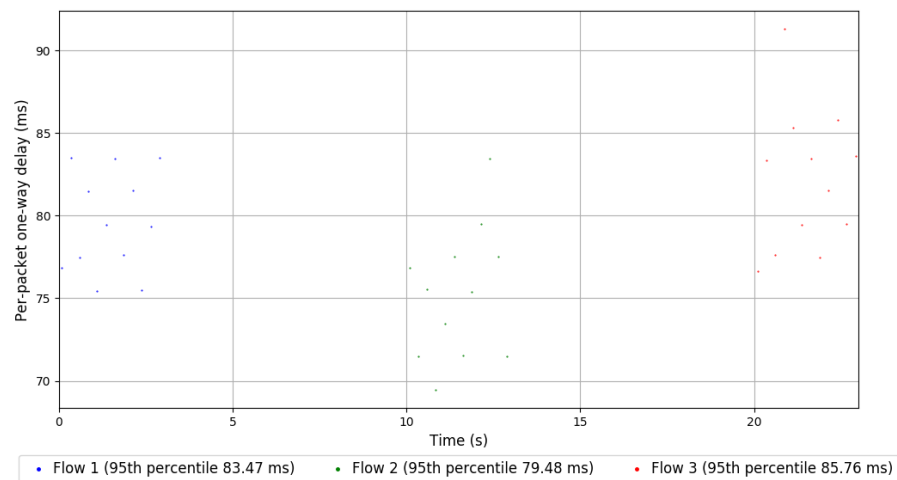
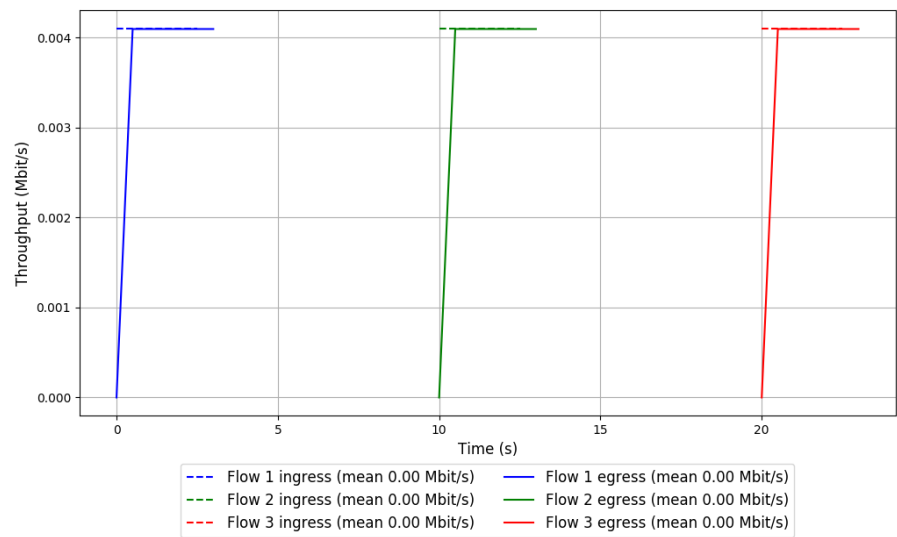
Start at: 2018-05-24 10:53:45

End at: 2018-05-24 10:54:15

Local clock offset: 4.395 ms

Remote clock offset: 4.875 ms

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

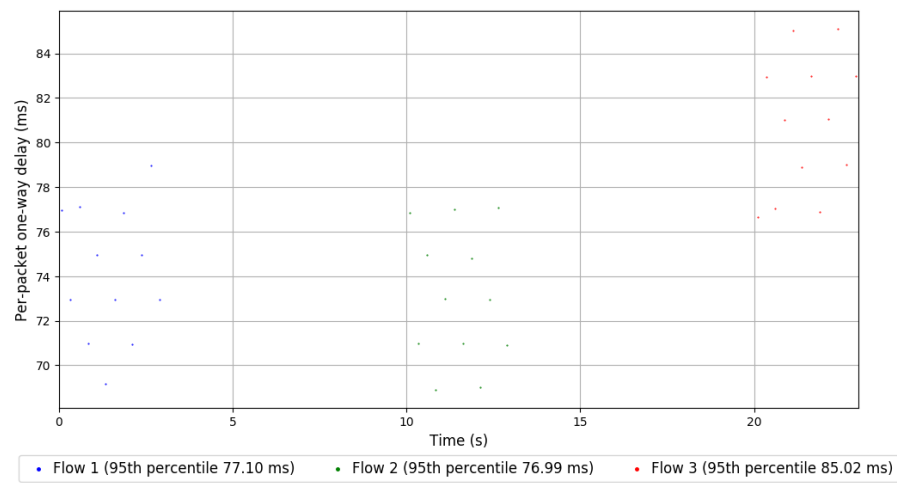
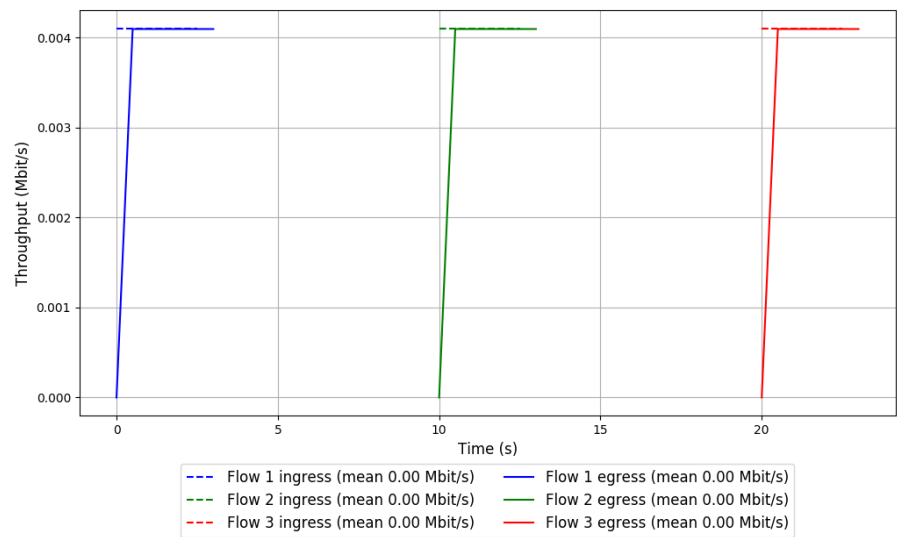
Start at: 2018-05-24 11:14:46

End at: 2018-05-24 11:15:16

Local clock offset: 3.584 ms

Remote clock offset: 10.045 ms

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-05-24 11:35:48

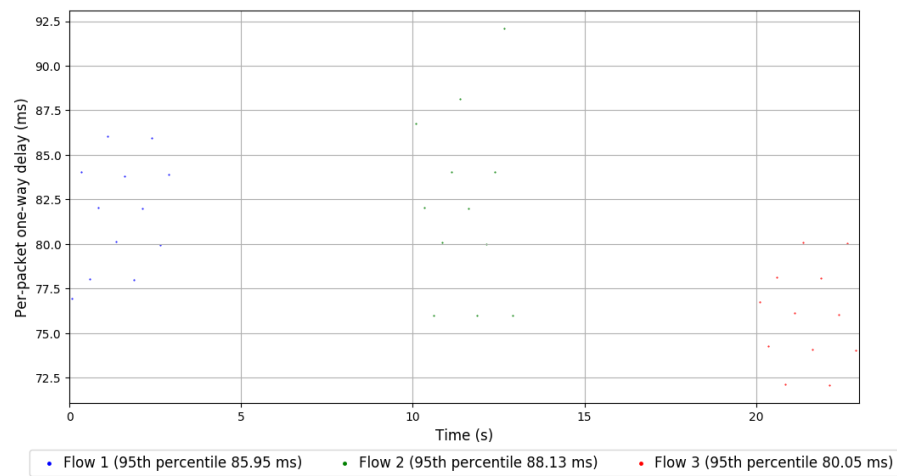
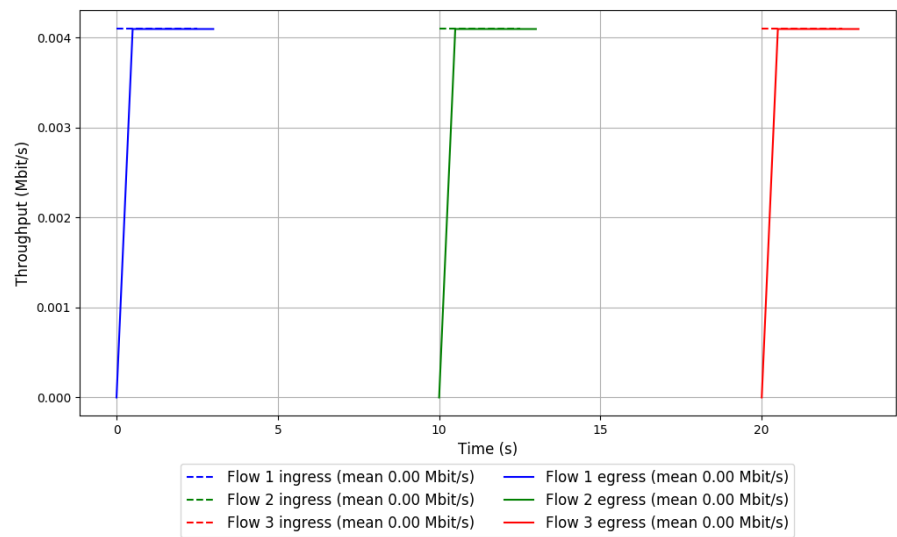
End at: 2018-05-24 11:36:18

Local clock offset: 3.068 ms

Remote clock offset: 13.04 ms



Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

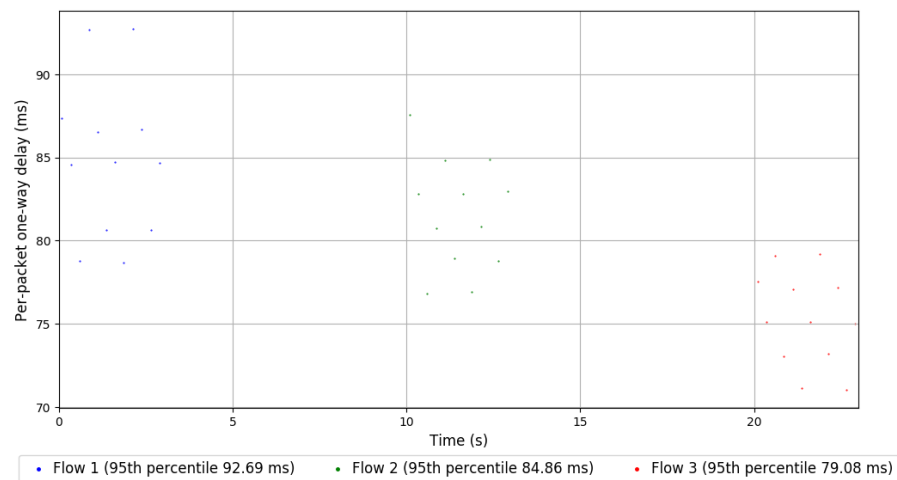
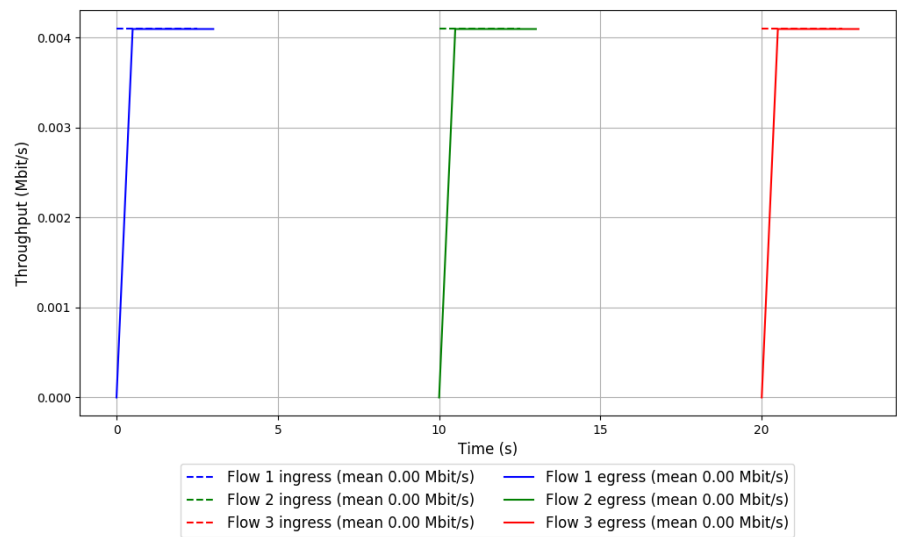
Start at: 2018-05-24 11:56:57

End at: 2018-05-24 11:57:27

Local clock offset: 3.222 ms

Remote clock offset: 10.814 ms

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

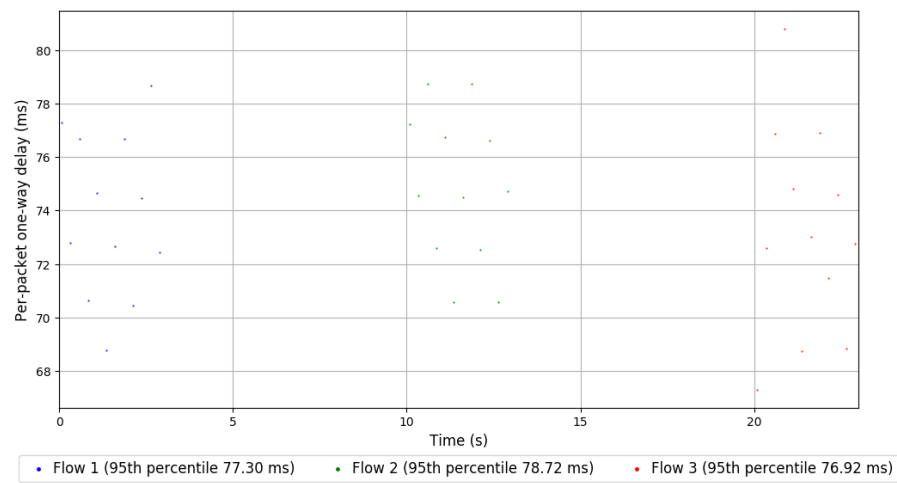
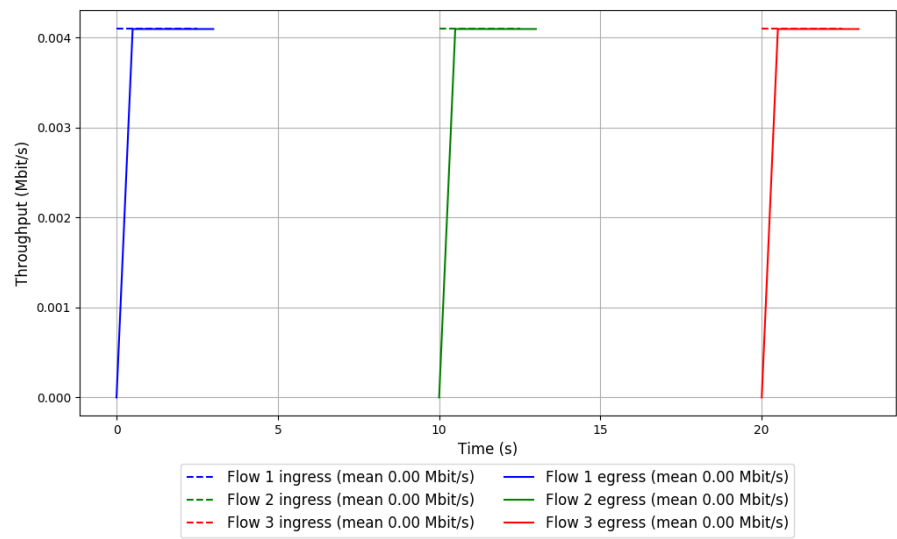
Start at: 2018-05-24 12:18:02

End at: 2018-05-24 12:18:32

Local clock offset: 3.731 ms

Remote clock offset: -1.784 ms

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

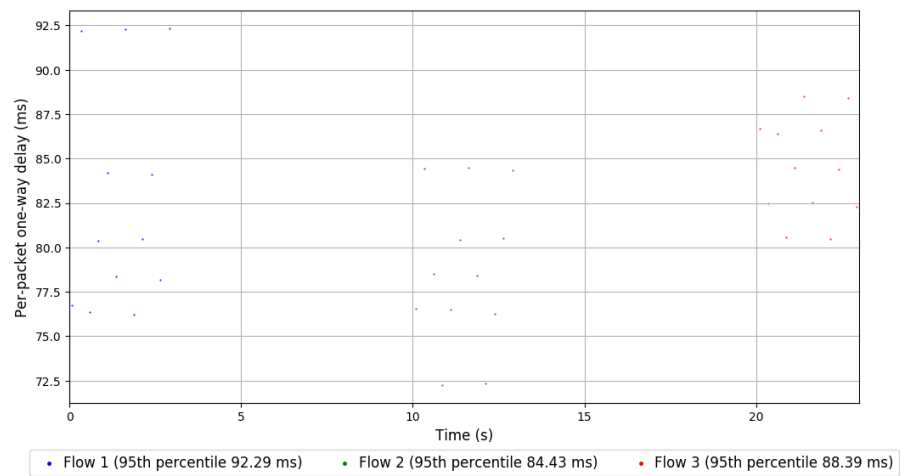
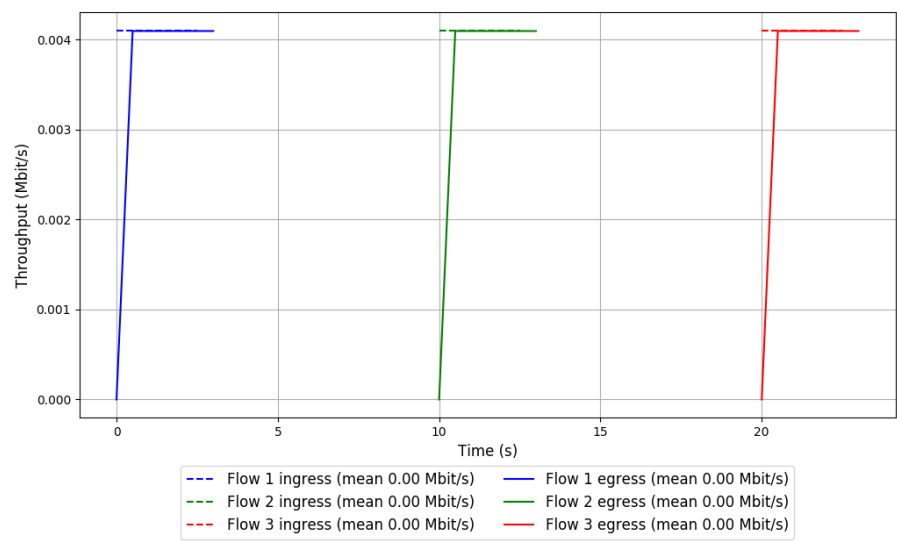
Start at: 2018-05-24 12:39:02

End at: 2018-05-24 12:39:32

Local clock offset: 2.535 ms

Remote clock offset: -5.566 ms

Run 10: Report of PCC-Expr — Data Link



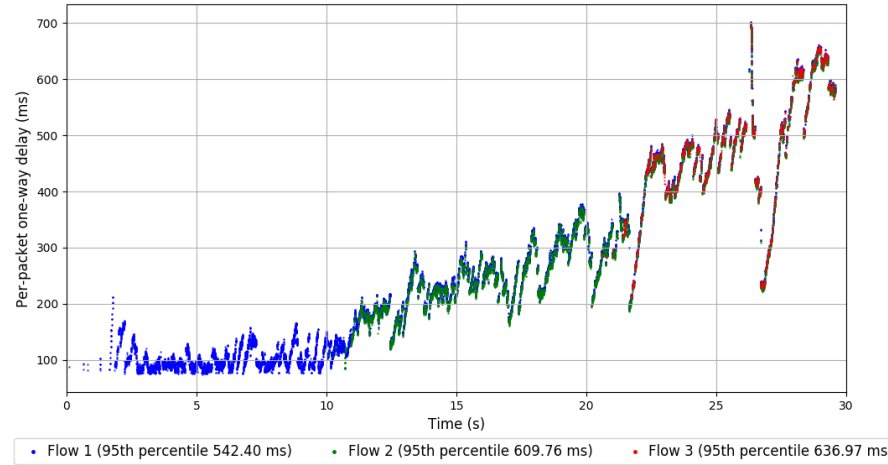
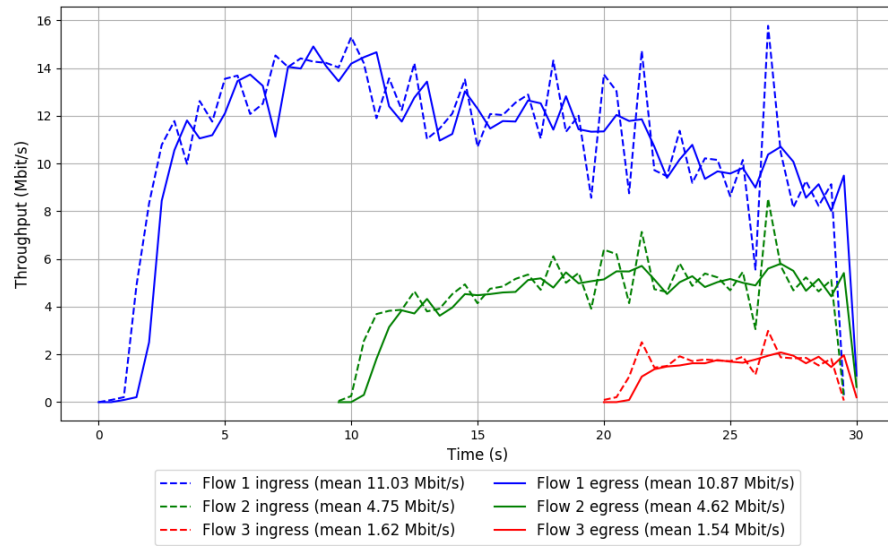
Run 1: Statistics of QUIC Cubic

Start at: 2018-05-24 09:13:56  
End at: 2018-05-24 09:14:26  
Local clock offset: -9.744 ms  
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2018-05-24 12:46:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 14.44 Mbit/s  
95th percentile per-packet one-way delay: 585.925 ms  
Loss rate: 1.92%  
-- Flow 1:  
Average throughput: 10.87 Mbit/s  
95th percentile per-packet one-way delay: 542.403 ms  
Loss rate: 1.46%  
-- Flow 2:  
Average throughput: 4.62 Mbit/s  
95th percentile per-packet one-way delay: 609.761 ms  
Loss rate: 2.84%  
-- Flow 3:  
Average throughput: 1.54 Mbit/s  
95th percentile per-packet one-way delay: 636.970 ms  
Loss rate: 6.10%



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

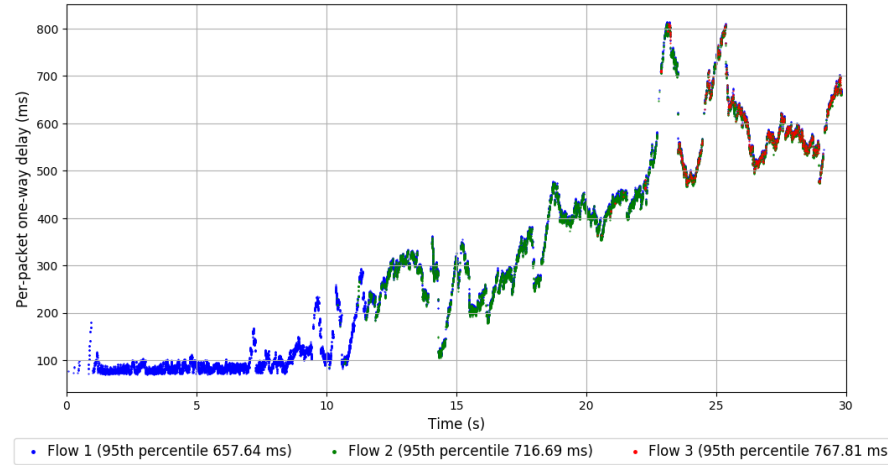
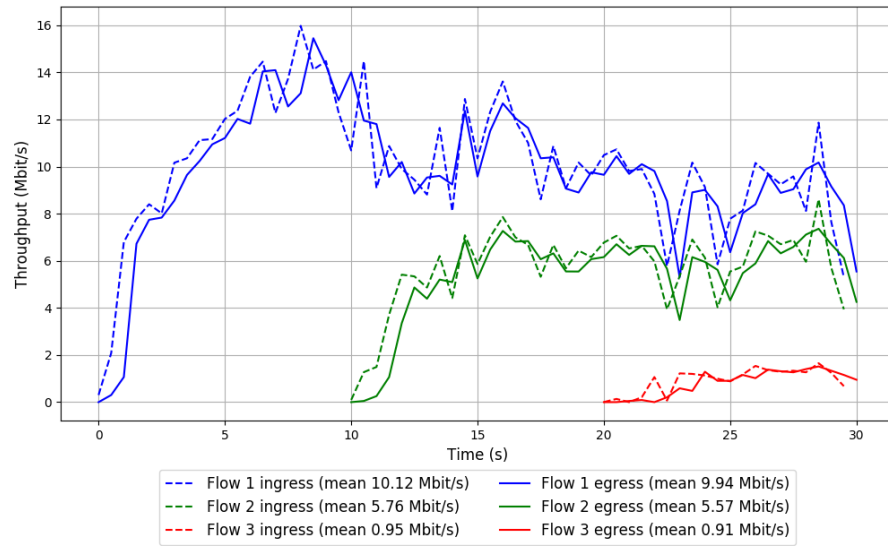


Run 2: Statistics of QUIC Cubic

Start at: 2018-05-24 09:34:54  
End at: 2018-05-24 09:35:24  
Local clock offset: -0.76 ms  
Remote clock offset: -2.095 ms

# Below is generated by plot.py at 2018-05-24 12:46:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 13.92 Mbit/s  
95th percentile per-packet one-way delay: 676.095 ms  
Loss rate: 2.36%  
-- Flow 1:  
Average throughput: 9.94 Mbit/s  
95th percentile per-packet one-way delay: 657.638 ms  
Loss rate: 1.79%  
-- Flow 2:  
Average throughput: 5.57 Mbit/s  
95th percentile per-packet one-way delay: 716.688 ms  
Loss rate: 3.41%  
-- Flow 3:  
Average throughput: 0.91 Mbit/s  
95th percentile per-packet one-way delay: 767.812 ms  
Loss rate: 7.85%

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

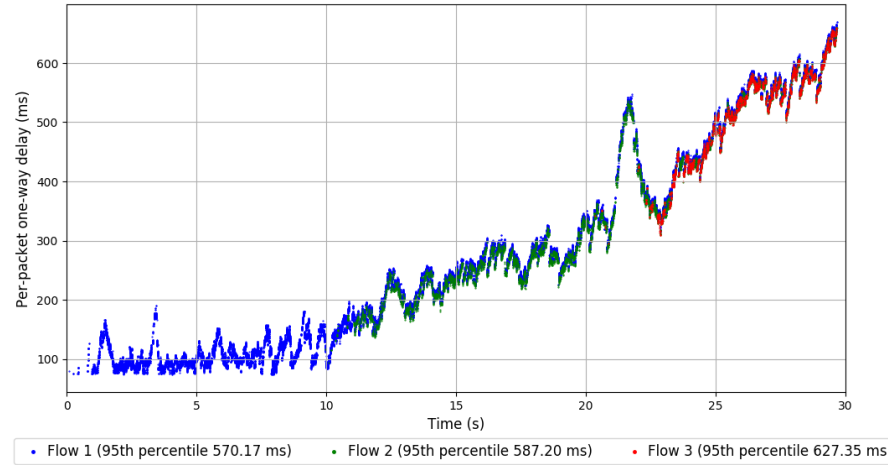
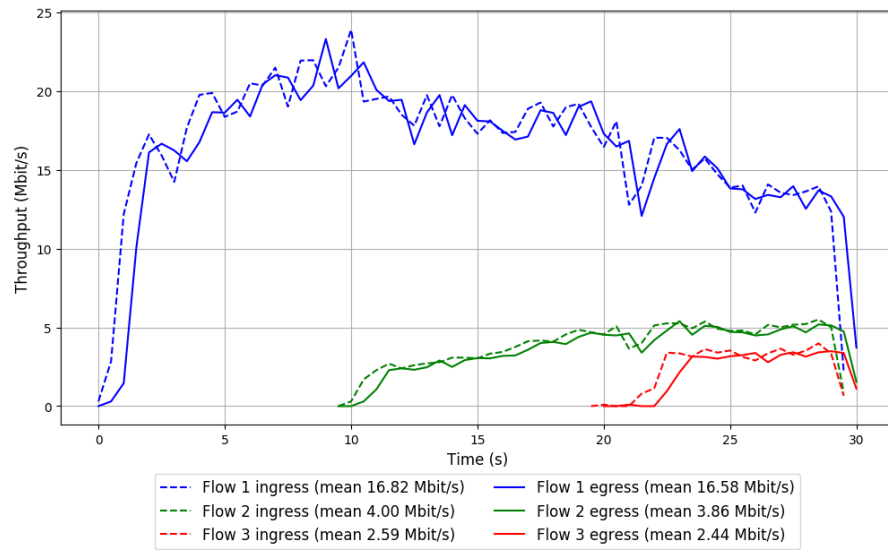


Run 3: Statistics of QUIC Cubic

Start at: 2018-05-24 09:55:56  
End at: 2018-05-24 09:56:26  
Local clock offset: 6.731 ms  
Remote clock offset: -0.952 ms

# Below is generated by plot.py at 2018-05-24 12:46:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 19.93 Mbit/s  
95th percentile per-packet one-way delay: 576.383 ms  
Loss rate: 2.05%  
-- Flow 1:  
Average throughput: 16.58 Mbit/s  
95th percentile per-packet one-way delay: 570.167 ms  
Loss rate: 1.49%  
-- Flow 2:  
Average throughput: 3.86 Mbit/s  
95th percentile per-packet one-way delay: 587.196 ms  
Loss rate: 3.70%  
-- Flow 3:  
Average throughput: 2.44 Mbit/s  
95th percentile per-packet one-way delay: 627.349 ms  
Loss rate: 7.94%

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

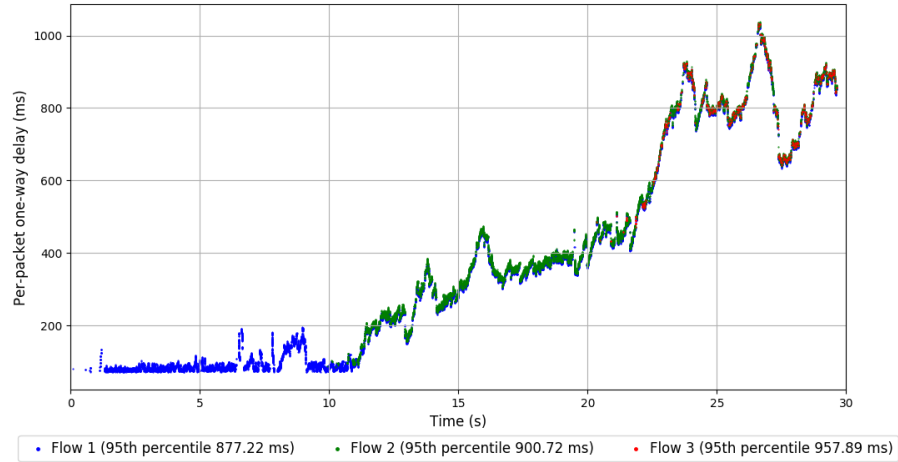
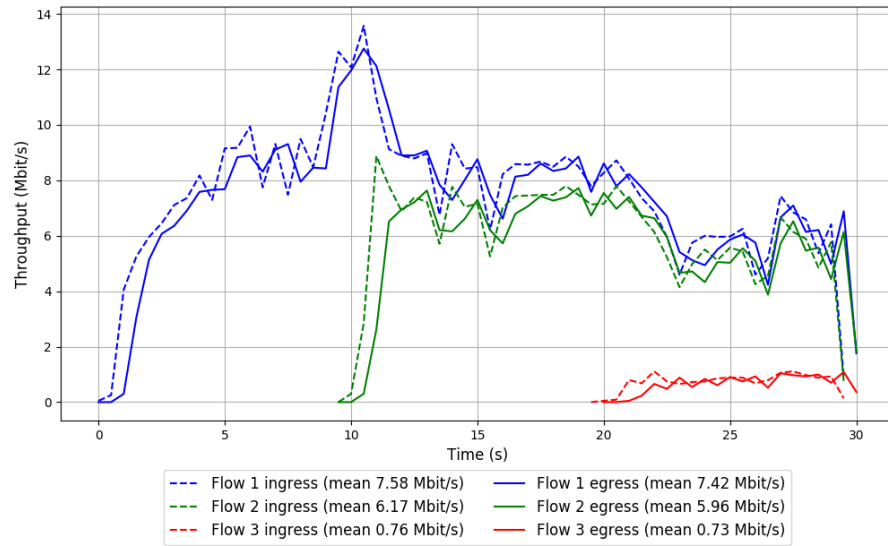


Run 4: Statistics of QUIC Cubic

Start at: 2018-05-24 10:16:56  
End at: 2018-05-24 10:17:26  
Local clock offset: -2.404 ms  
Remote clock offset: -0.577 ms

# Below is generated by plot.py at 2018-05-24 12:46:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 11.63 Mbit/s  
95th percentile per-packet one-way delay: 890.043 ms  
Loss rate: 2.69%  
-- Flow 1:  
Average throughput: 7.42 Mbit/s  
95th percentile per-packet one-way delay: 877.220 ms  
Loss rate: 2.09%  
-- Flow 2:  
Average throughput: 5.96 Mbit/s  
95th percentile per-packet one-way delay: 900.722 ms  
Loss rate: 3.41%  
-- Flow 3:  
Average throughput: 0.73 Mbit/s  
95th percentile per-packet one-way delay: 957.892 ms  
Loss rate: 8.87%

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



Run 5: Statistics of QUIC Cubic

Start at: 2018-05-24 10:37:58

End at: 2018-05-24 10:38:28

Local clock offset: 2.064 ms

Remote clock offset: 0.068 ms

# Below is generated by plot.py at 2018-05-24 12:46:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 11.70 Mbit/s

95th percentile per-packet one-way delay: 751.952 ms

Loss rate: 2.50%

-- Flow 1:

Average throughput: 10.47 Mbit/s

95th percentile per-packet one-way delay: 747.231 ms

Loss rate: 2.02%

-- Flow 2:

Average throughput: 1.15 Mbit/s

95th percentile per-packet one-way delay: 836.942 ms

Loss rate: 4.62%

-- Flow 3:

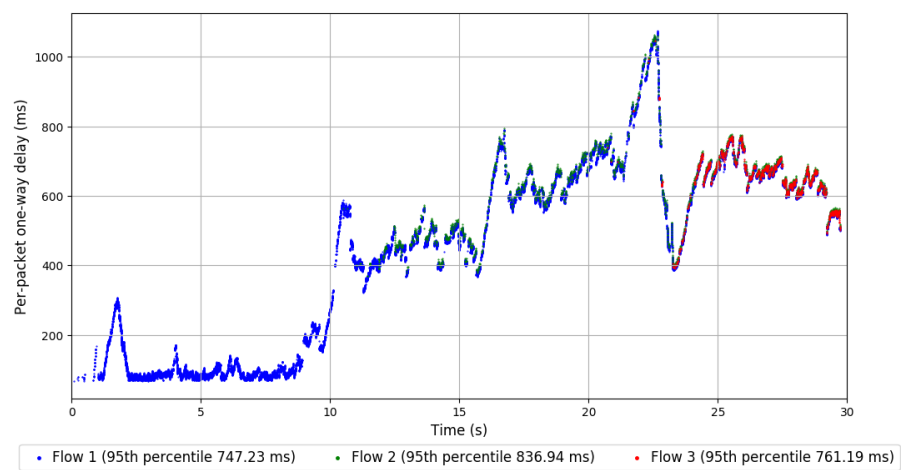
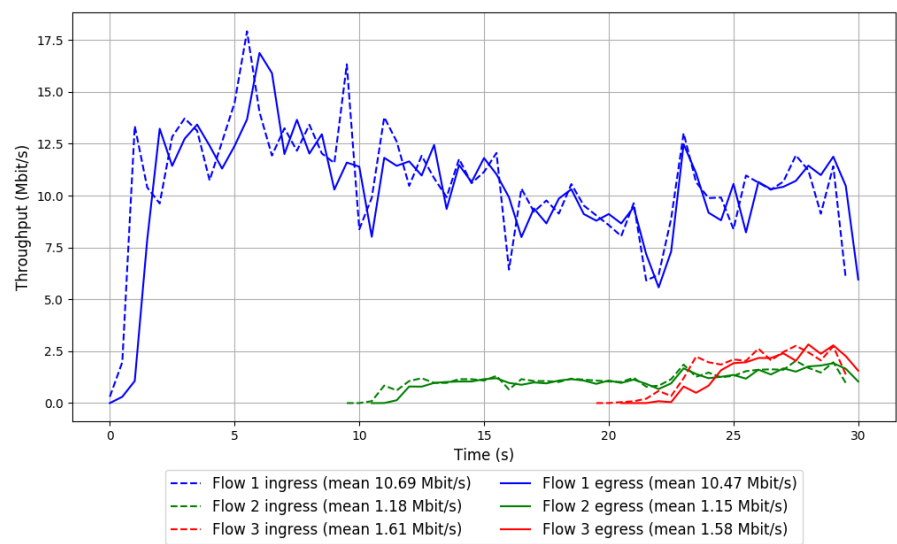
Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 761.190 ms

Loss rate: 9.20%



Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-05-24 10:59:01

End at: 2018-05-24 10:59:31

Local clock offset: 4.055 ms

Remote clock offset: 6.777 ms

# Below is generated by plot.py at 2018-05-24 12:46:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 17.56 Mbit/s

95th percentile per-packet one-way delay: 617.447 ms

Loss rate: 2.20%

-- Flow 1:

Average throughput: 15.00 Mbit/s

95th percentile per-packet one-way delay: 604.436 ms

Loss rate: 1.66%

-- Flow 2:

Average throughput: 2.73 Mbit/s

95th percentile per-packet one-way delay: 634.649 ms

Loss rate: 4.14%

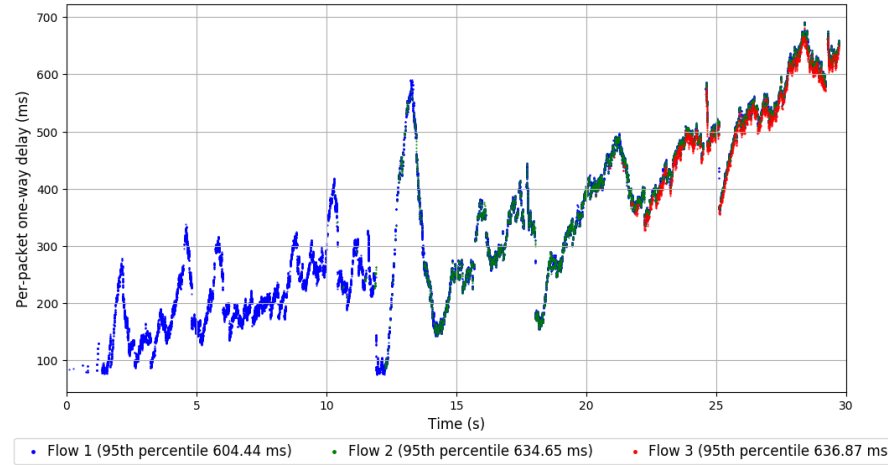
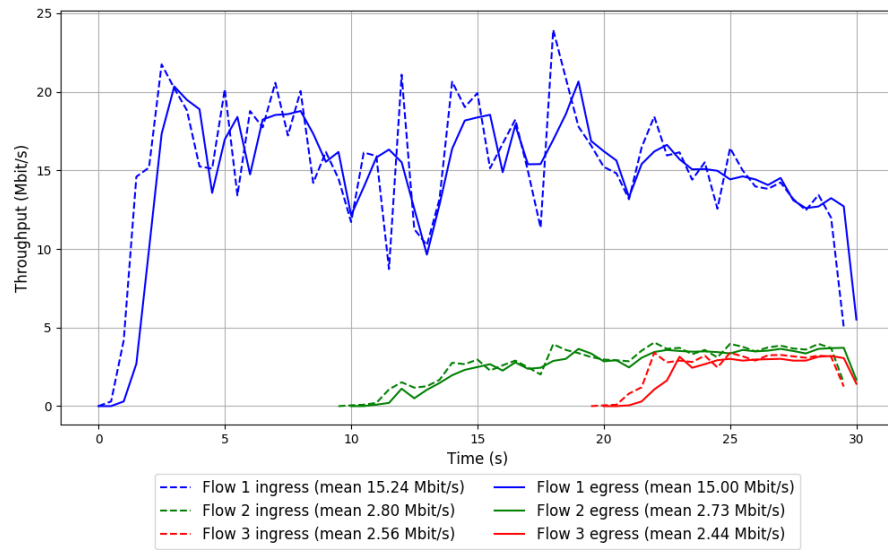
-- Flow 3:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 636.869 ms

Loss rate: 7.68%

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

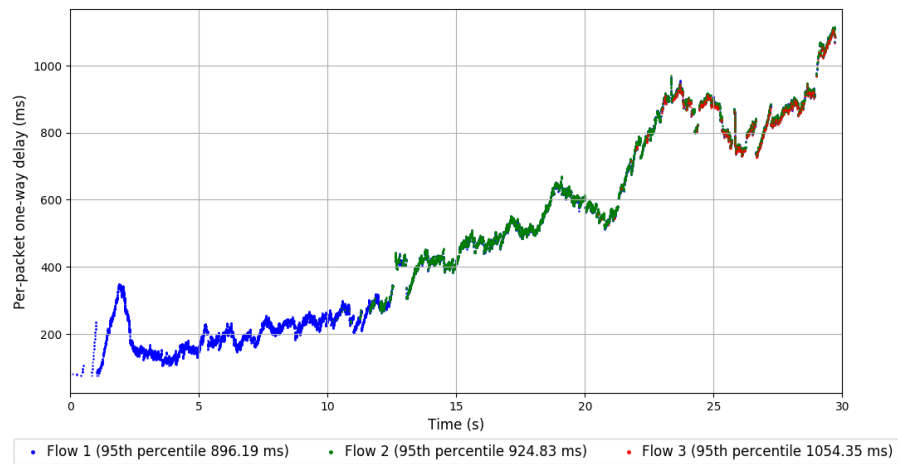
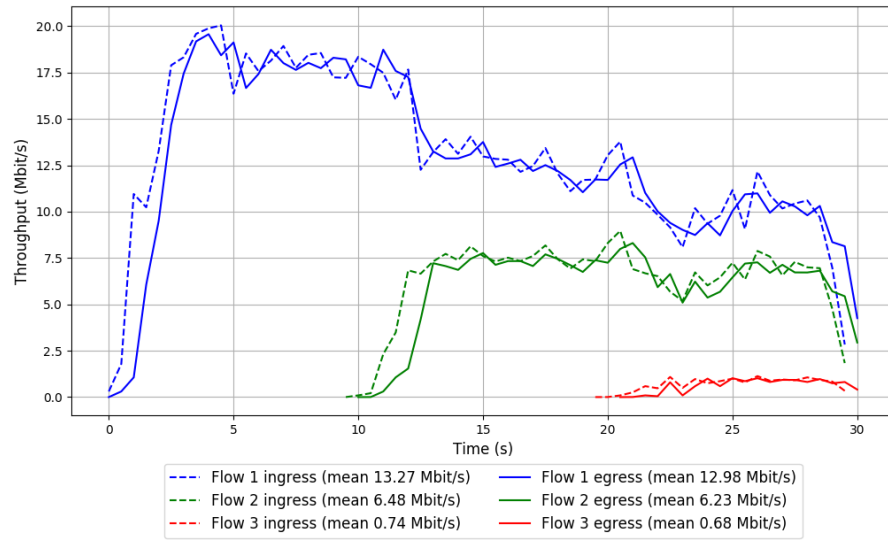


Run 7: Statistics of QUIC Cubic

Start at: 2018-05-24 11:20:03  
End at: 2018-05-24 11:20:33  
Local clock offset: 3.677 ms  
Remote clock offset: 10.728 ms

# Below is generated by plot.py at 2018-05-24 12:46:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 17.31 Mbit/s  
95th percentile per-packet one-way delay: 907.515 ms  
Loss rate: 2.92%  
-- Flow 1:  
Average throughput: 12.98 Mbit/s  
95th percentile per-packet one-way delay: 896.192 ms  
Loss rate: 2.18%  
-- Flow 2:  
Average throughput: 6.23 Mbit/s  
95th percentile per-packet one-way delay: 924.834 ms  
Loss rate: 4.64%  
-- Flow 3:  
Average throughput: 0.68 Mbit/s  
95th percentile per-packet one-way delay: 1054.347 ms  
Loss rate: 13.04%

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



Run 8: Statistics of QUIC Cubic

Start at: 2018-05-24 11:41:05

End at: 2018-05-24 11:41:35

Local clock offset: 3.134 ms

Remote clock offset: 13.69 ms

# Below is generated by plot.py at 2018-05-24 12:46:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 11.19 Mbit/s

95th percentile per-packet one-way delay: 579.031 ms

Loss rate: 1.93%

-- Flow 1:

Average throughput: 8.91 Mbit/s

95th percentile per-packet one-way delay: 538.362 ms

Loss rate: 1.48%

-- Flow 2:

Average throughput: 2.88 Mbit/s

95th percentile per-packet one-way delay: 773.859 ms

Loss rate: 3.24%

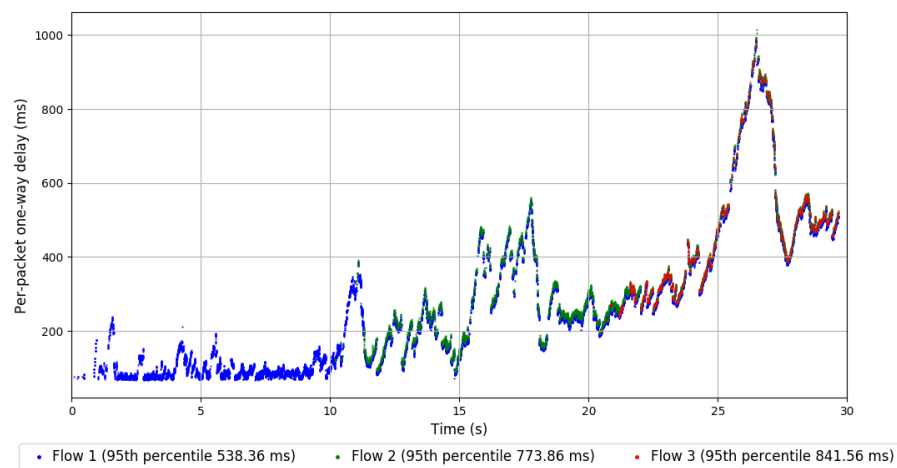
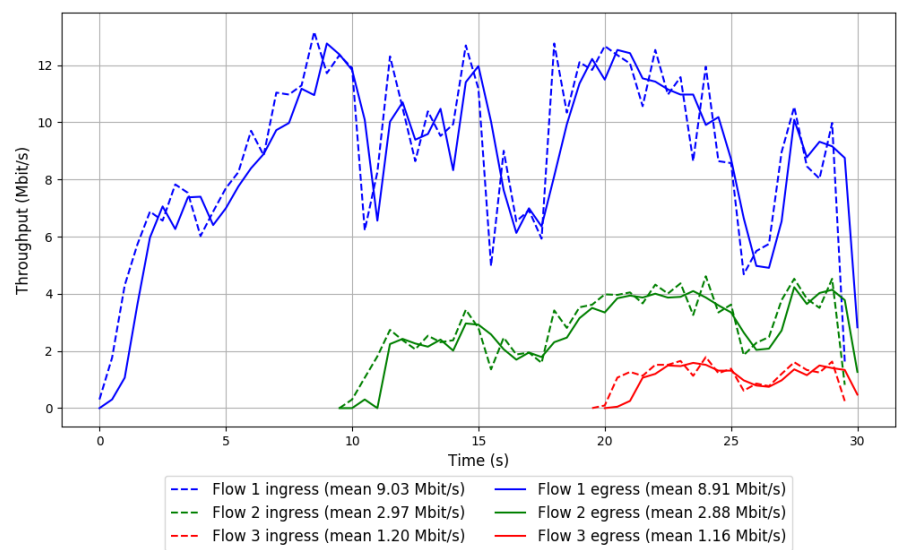
-- Flow 3:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 841.557 ms

Loss rate: 5.64%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-05-24 12:02:16

End at: 2018-05-24 12:02:46

Local clock offset: 3.417 ms

Remote clock offset: 5.499 ms

# Below is generated by plot.py at 2018-05-24 12:47:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 15.58 Mbit/s

95th percentile per-packet one-way delay: 618.876 ms

Loss rate: 1.96%

-- Flow 1:

Average throughput: 12.99 Mbit/s

95th percentile per-packet one-way delay: 615.816 ms

Loss rate: 1.55%

-- Flow 2:

Average throughput: 3.20 Mbit/s

95th percentile per-packet one-way delay: 623.166 ms

Loss rate: 3.29%

-- Flow 3:

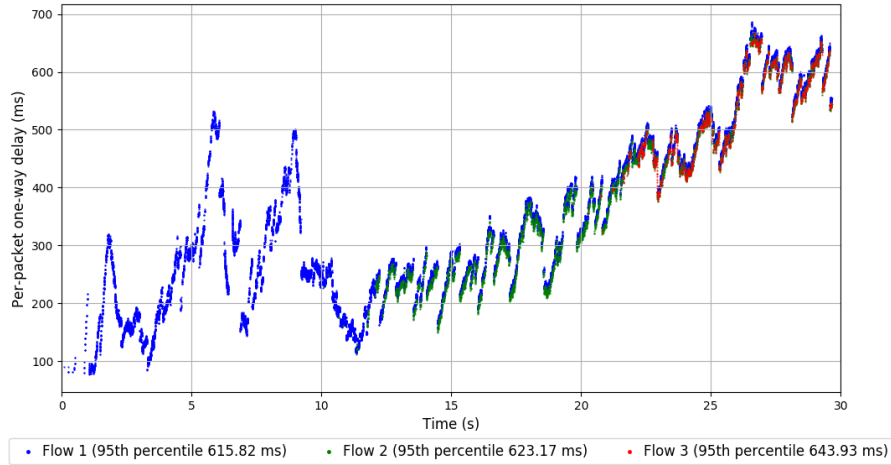
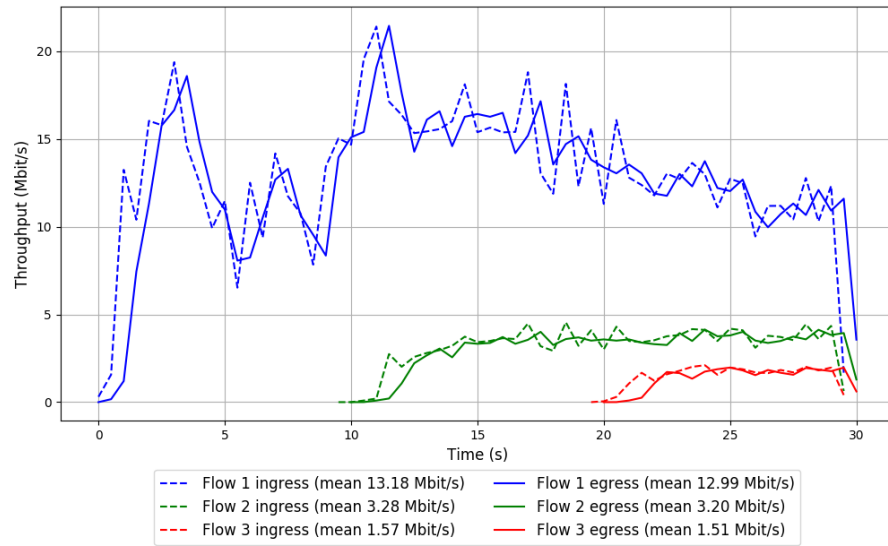
Average throughput: 1.51 Mbit/s

95th percentile per-packet one-way delay: 643.934 ms

Loss rate: 6.65%



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

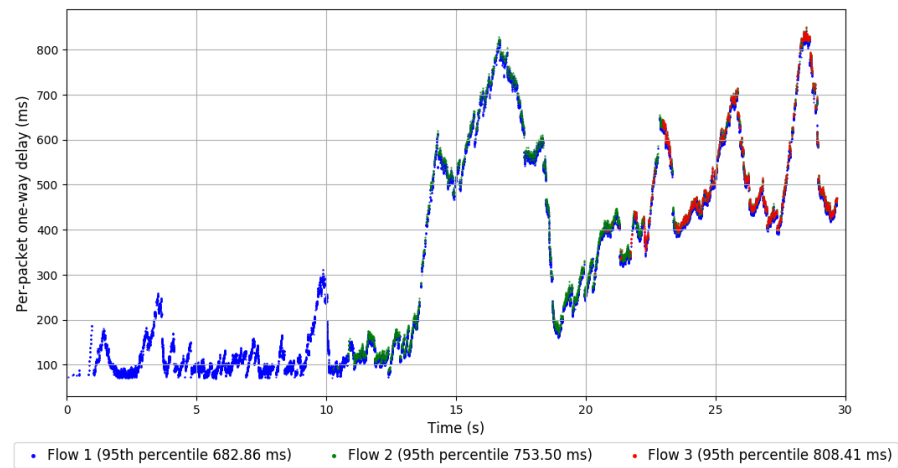
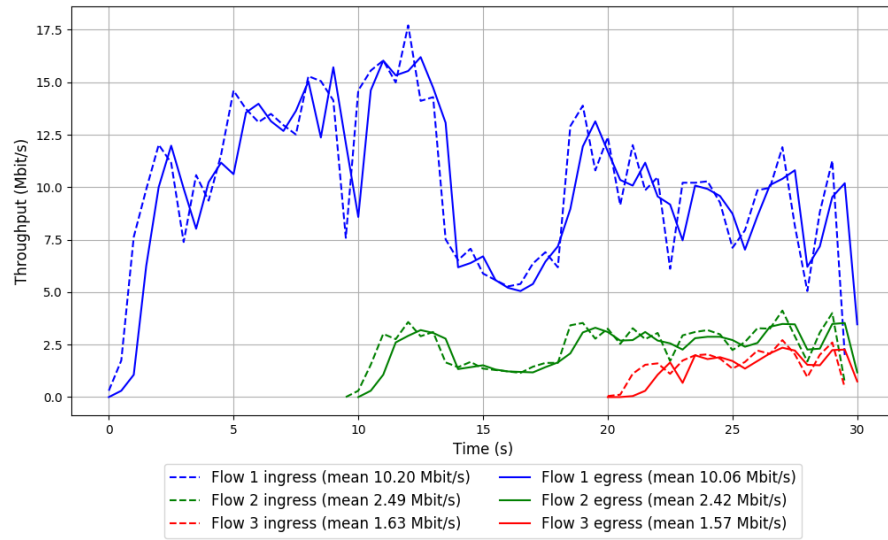


Run 10: Statistics of QUIC Cubic

Start at: 2018-05-24 12:23:18  
End at: 2018-05-24 12:23:48  
Local clock offset: 3.867 ms  
Remote clock offset: -3.002 ms

# Below is generated by plot.py at 2018-05-24 12:47:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.16 Mbit/s  
95th percentile per-packet one-way delay: 699.809 ms  
Loss rate: 1.82%  
-- Flow 1:  
Average throughput: 10.06 Mbit/s  
95th percentile per-packet one-way delay: 682.860 ms  
Loss rate: 1.37%  
-- Flow 2:  
Average throughput: 2.42 Mbit/s  
95th percentile per-packet one-way delay: 753.502 ms  
Loss rate: 3.11%  
-- Flow 3:  
Average throughput: 1.57 Mbit/s  
95th percentile per-packet one-way delay: 808.412 ms  
Loss rate: 6.45%

# Run 10: Report of QUIC Cubic — Data Link

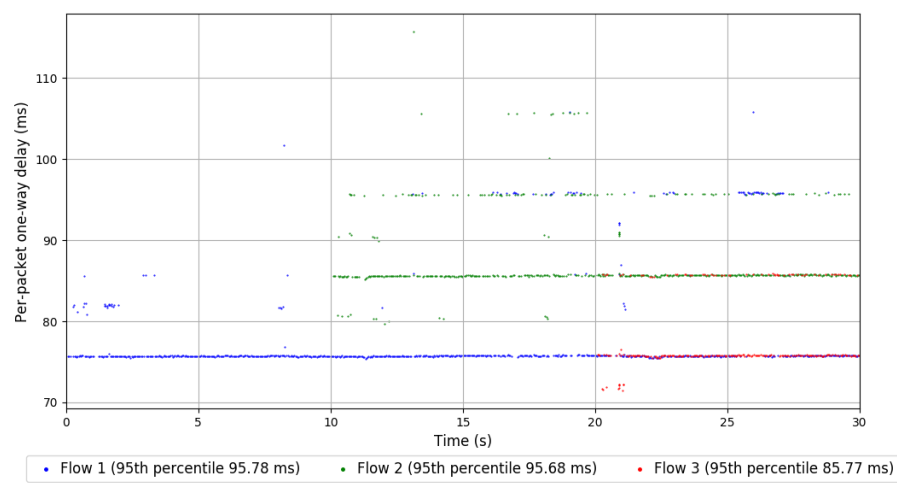
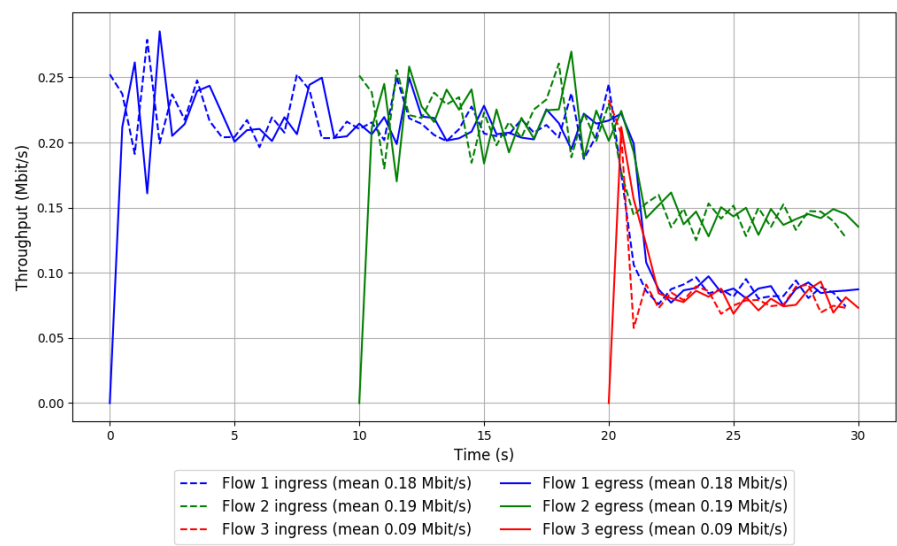


```
Run 1: Statistics of SCReAM

Start at: 2018-05-24 09:24:25
End at: 2018-05-24 09:24:55
Local clock offset: -10.588 ms
Remote clock offset: -1.178 ms

# Below is generated by plot.py at 2018-05-24 12:47:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 95.698 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 95.783 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 95.680 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 85.771 ms
Loss rate: 0.31%
```

Run 1: Report of SReAM — Data Link

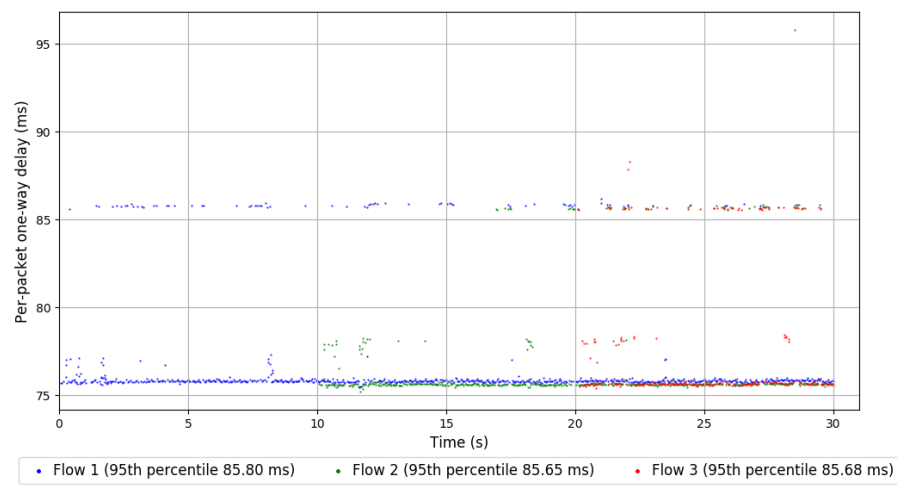
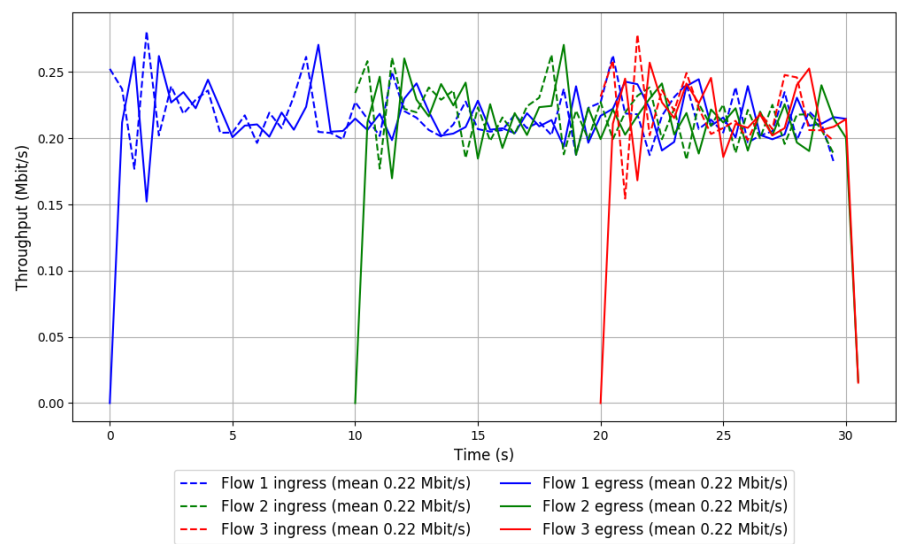


Run 2: Statistics of SReAM

Start at: 2018-05-24 09:45:25  
End at: 2018-05-24 09:45:55  
Local clock offset: 3.854 ms  
Remote clock offset: -1.341 ms

# Below is generated by plot.py at 2018-05-24 12:47:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 85.741 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 85.798 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 85.646 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 85.681 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



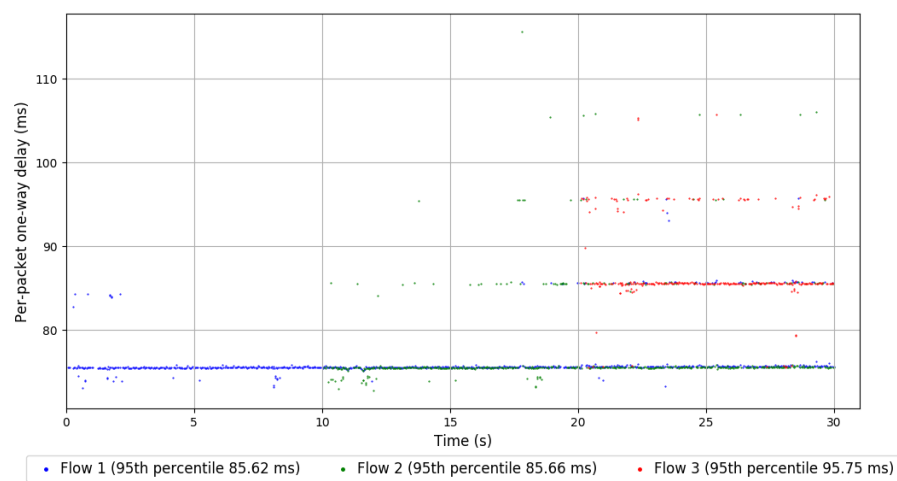
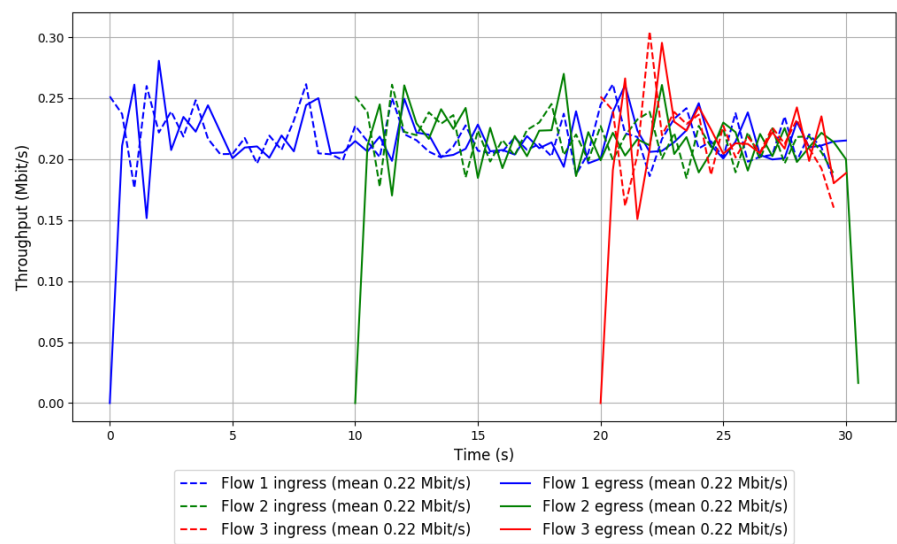
Run 3: Statistics of SReAM

Start at: 2018-05-24 10:06:25  
End at: 2018-05-24 10:06:55  
Local clock offset: -0.513 ms  
Remote clock offset: -1.039 ms

# Below is generated by plot.py at 2018-05-24 12:47:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 94.257 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 85.625 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 85.664 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 95.755 ms  
Loss rate: 0.31%



Run 3: Report of SReAM — Data Link

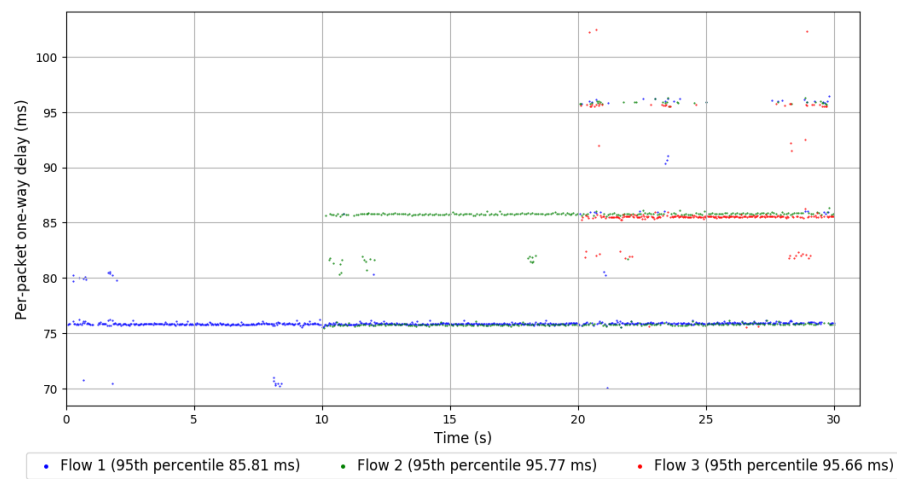
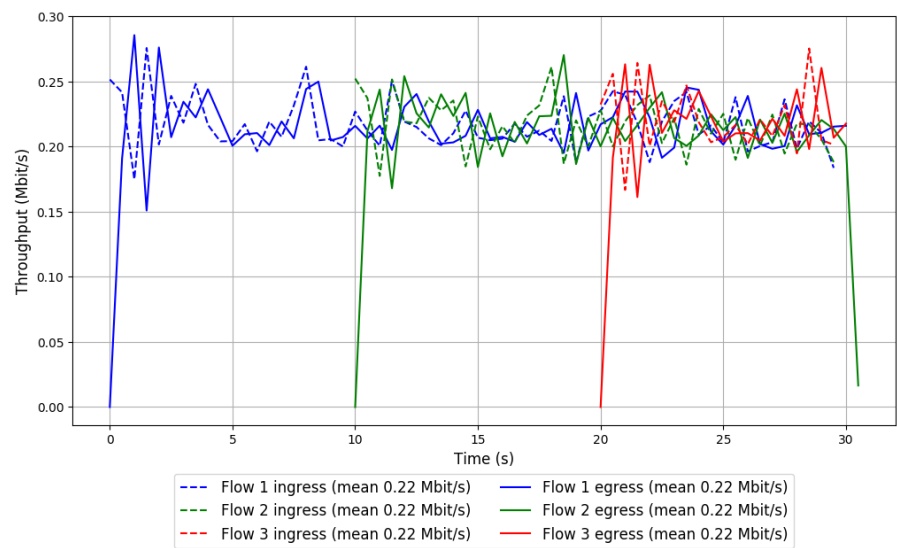


Run 4: Statistics of SReAM

Start at: 2018-05-24 10:27:27  
End at: 2018-05-24 10:27:57  
Local clock offset: -2.049 ms  
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2018-05-24 12:47:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 95.561 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 85.812 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 95.771 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 95.664 ms  
Loss rate: 0.36%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-05-24 10:48:29

End at: 2018-05-24 10:48:59

Local clock offset: 3.831 ms

Remote clock offset: 2.031 ms

# Below is generated by plot.py at 2018-05-24 12:47:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 85.552 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.844 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.386 ms

Loss rate: 0.00%

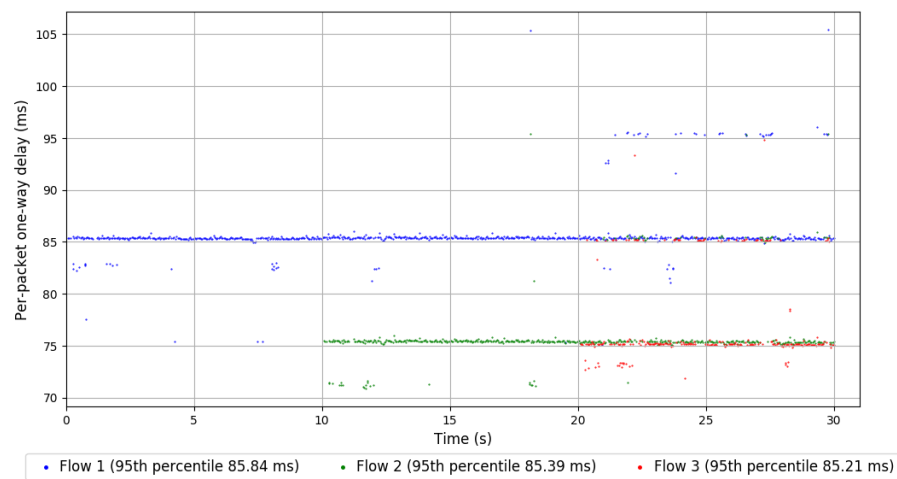
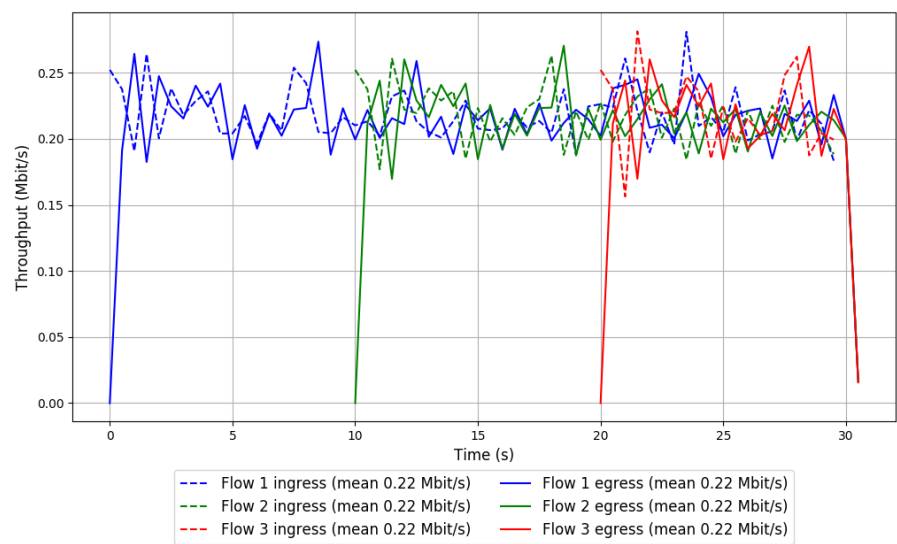
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.212 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-05-24 11:09:31

End at: 2018-05-24 11:10:01

Local clock offset: 3.493 ms

Remote clock offset: 9.155 ms

# Below is generated by plot.py at 2018-05-24 12:47:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 85.868 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.813 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.800 ms

Loss rate: 0.00%

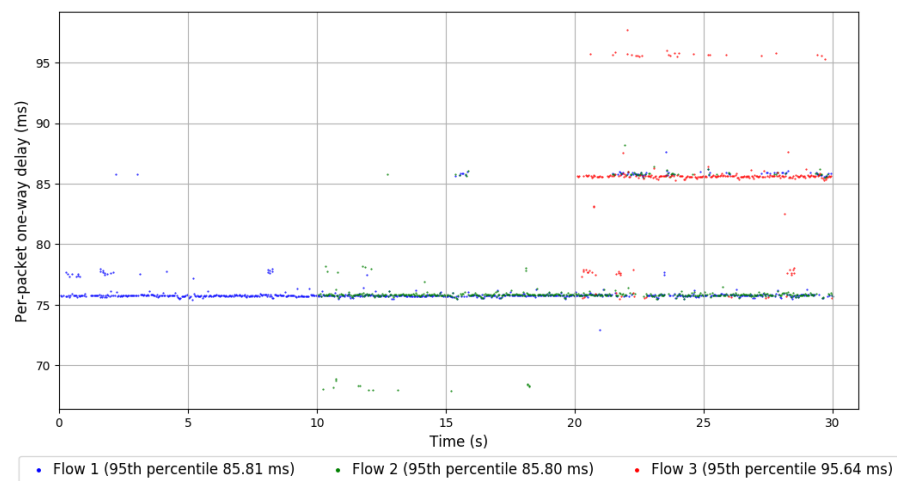
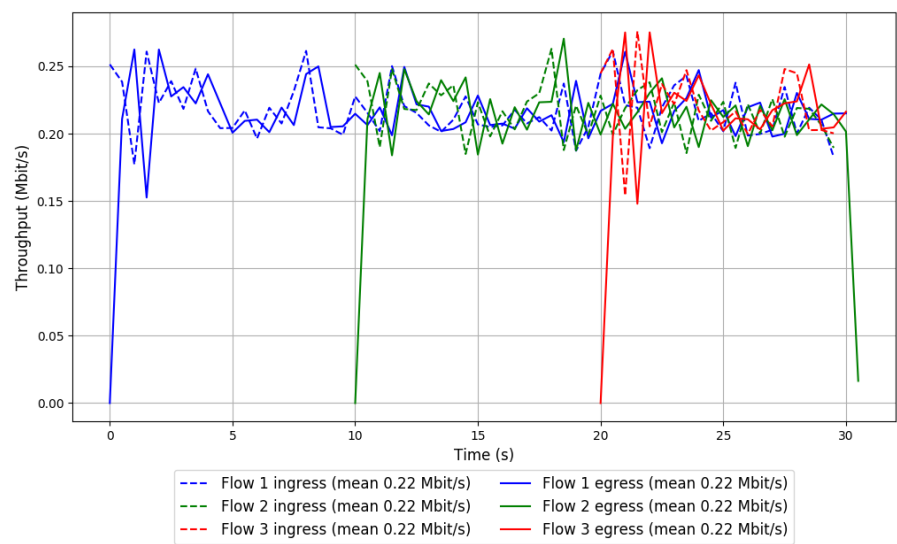
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 95.637 ms

Loss rate: 0.35%

Run 6: Report of SReAM — Data Link



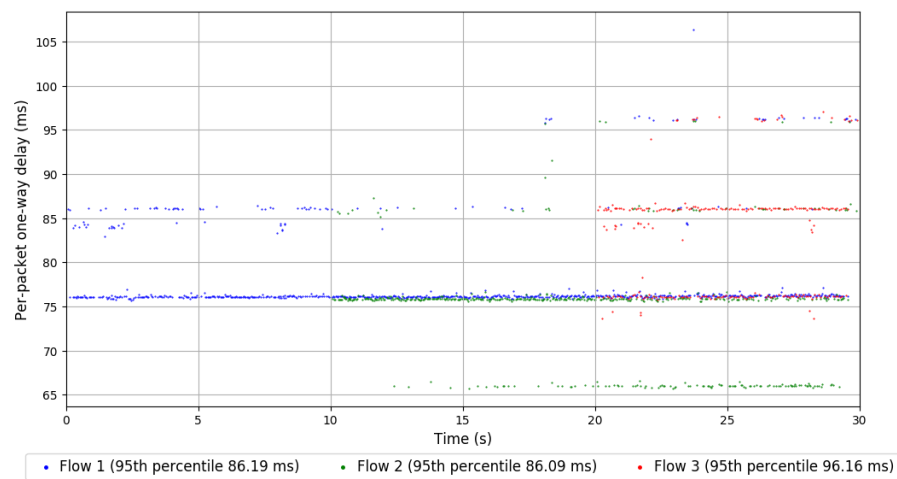
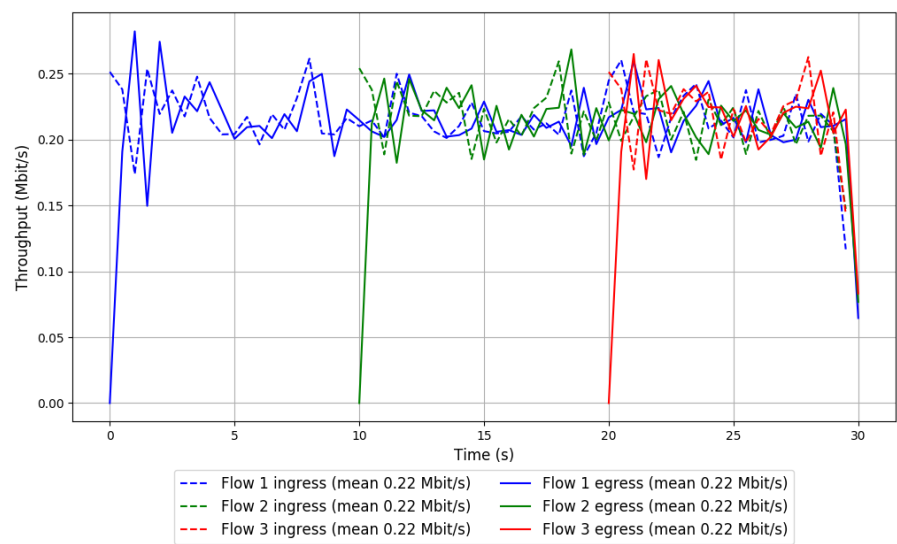
Run 7: Statistics of SReAM

Start at: 2018-05-24 11:30:34  
End at: 2018-05-24 11:31:04  
Local clock offset: 3.542 ms  
Remote clock offset: 12.292 ms

# Below is generated by plot.py at 2018-05-24 12:47:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 86.280 ms  
Loss rate: 1.06%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.187 ms  
Loss rate: 0.65%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.091 ms  
Loss rate: 1.15%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 96.164 ms  
Loss rate: 2.11%



Run 7: Report of SReAM — Data Link

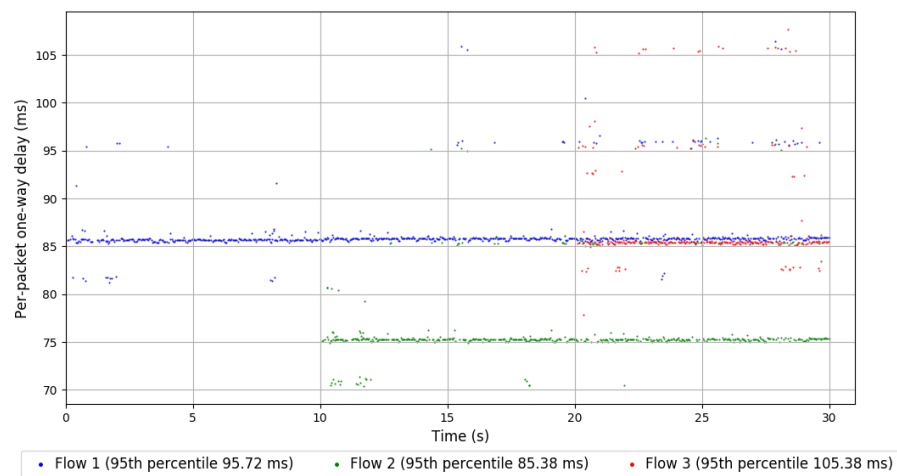
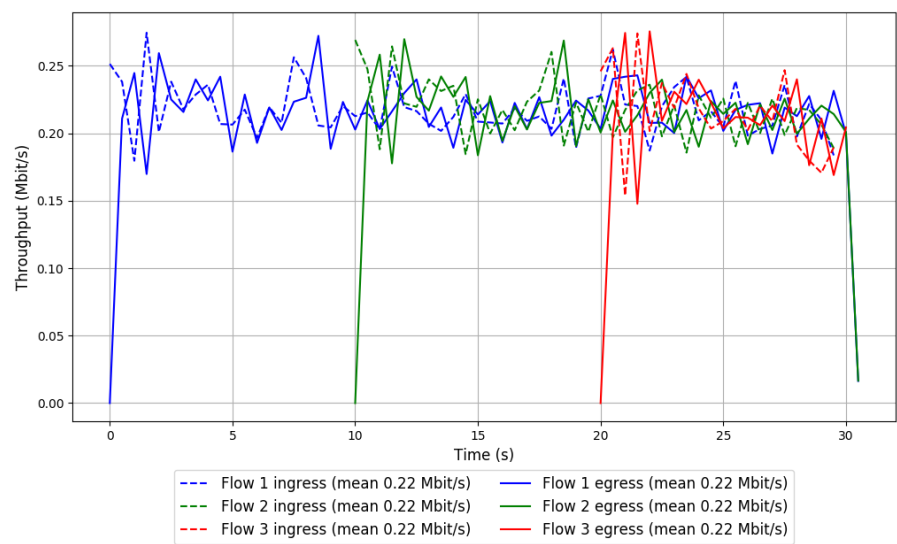


Run 8: Statistics of SCReAM

Start at: 2018-05-24 11:51:35  
End at: 2018-05-24 11:52:05  
Local clock offset: 3.25 ms  
Remote clock offset: 15.145 ms

# Below is generated by plot.py at 2018-05-24 12:47:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 95.415 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 95.722 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 85.380 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 105.377 ms  
Loss rate: 0.28%

Run 8: Report of SReAM — Data Link

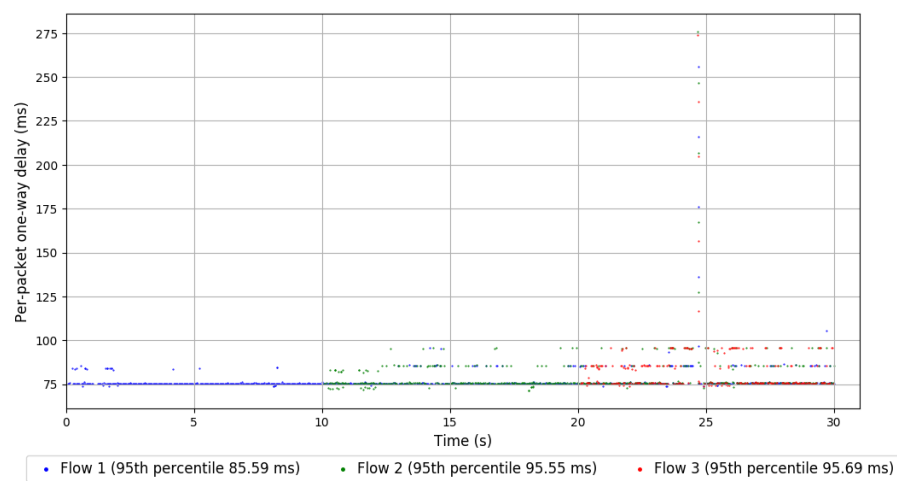
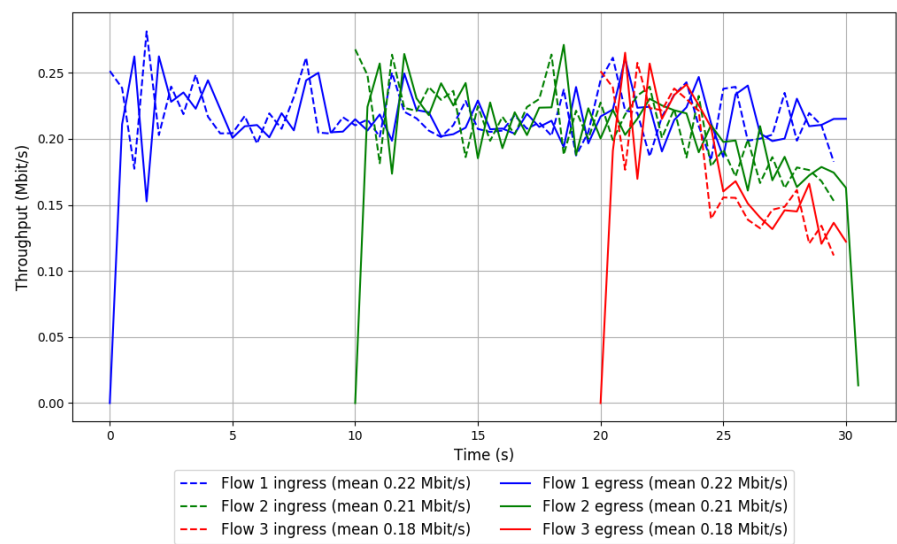


Run 9: Statistics of SReAM

Start at: 2018-05-24 12:12:47  
End at: 2018-05-24 12:13:17  
Local clock offset: 3.59 ms  
Remote clock offset: -0.211 ms

```
# Below is generated by plot.py at 2018-05-24 12:47:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 95.489 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.591 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 95.545 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 95.695 ms
Loss rate: 0.25%
```

Run 9: Report of SReAM — Data Link

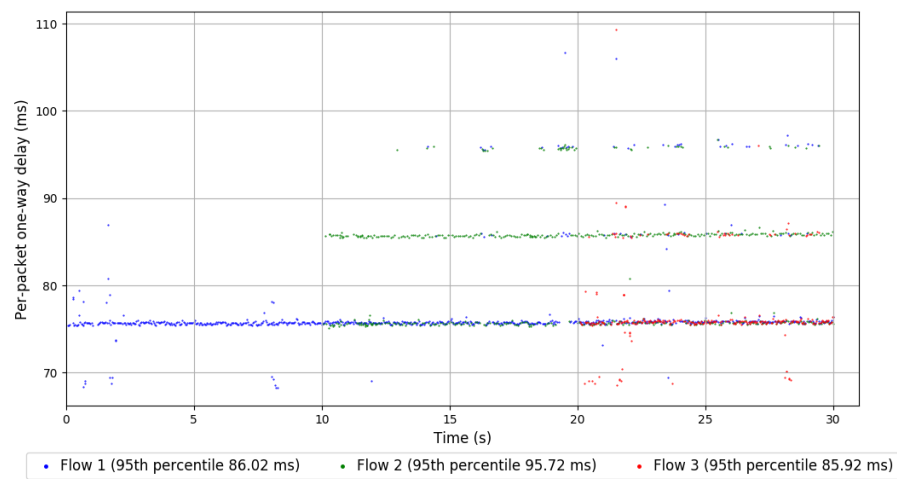
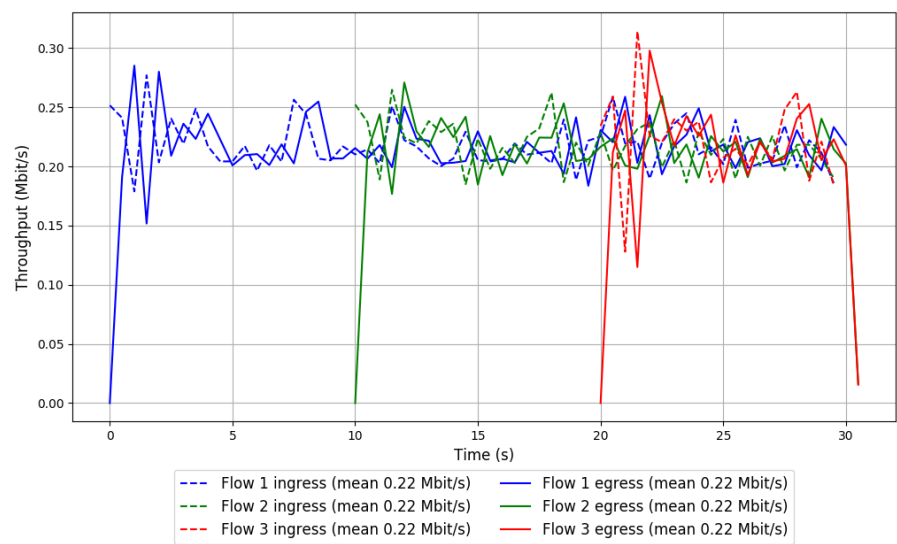


Run 10: Statistics of SReAM

Start at: 2018-05-24 12:33:47  
End at: 2018-05-24 12:34:17  
Local clock offset: 2.963 ms  
Remote clock offset: -4.823 ms

# Below is generated by plot.py at 2018-05-24 12:47:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 95.445 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.019 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 95.715 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 85.922 ms  
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



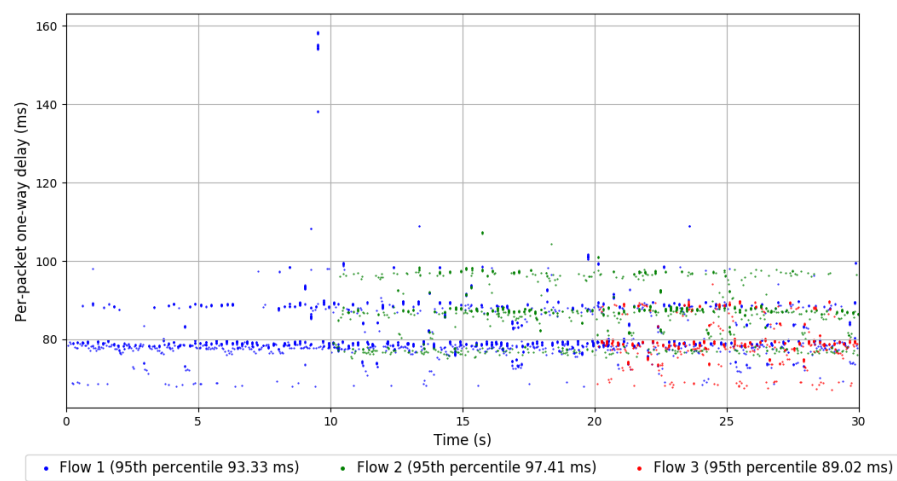
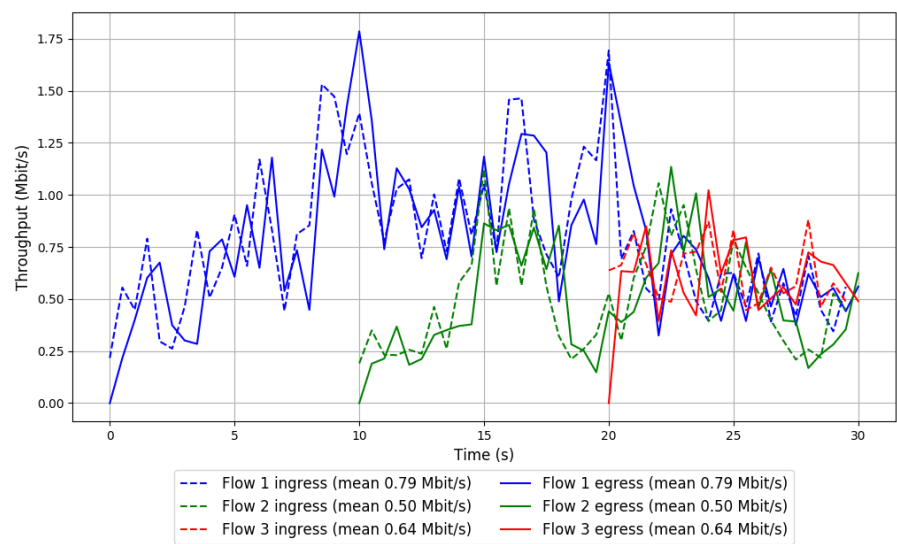
Run 1: Statistics of Sprout

Start at: 2018-05-24 09:16:33  
End at: 2018-05-24 09:17:03  
Local clock offset: -9.766 ms  
Remote clock offset: -0.271 ms

# Below is generated by plot.py at 2018-05-24 12:47:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.34 Mbit/s  
95th percentile per-packet one-way delay: 97.015 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.79 Mbit/s  
95th percentile per-packet one-way delay: 93.331 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.50 Mbit/s  
95th percentile per-packet one-way delay: 97.407 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.64 Mbit/s  
95th percentile per-packet one-way delay: 89.015 ms  
Loss rate: 0.00%



Run 1: Report of Sprout — Data Link

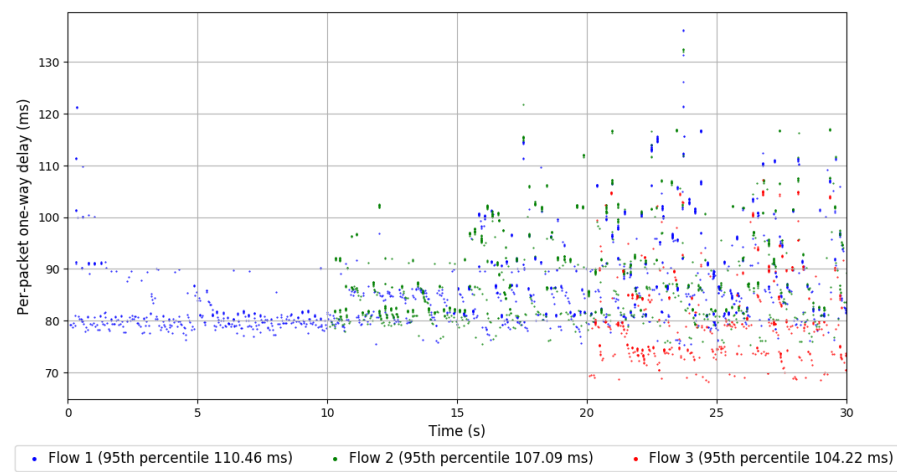
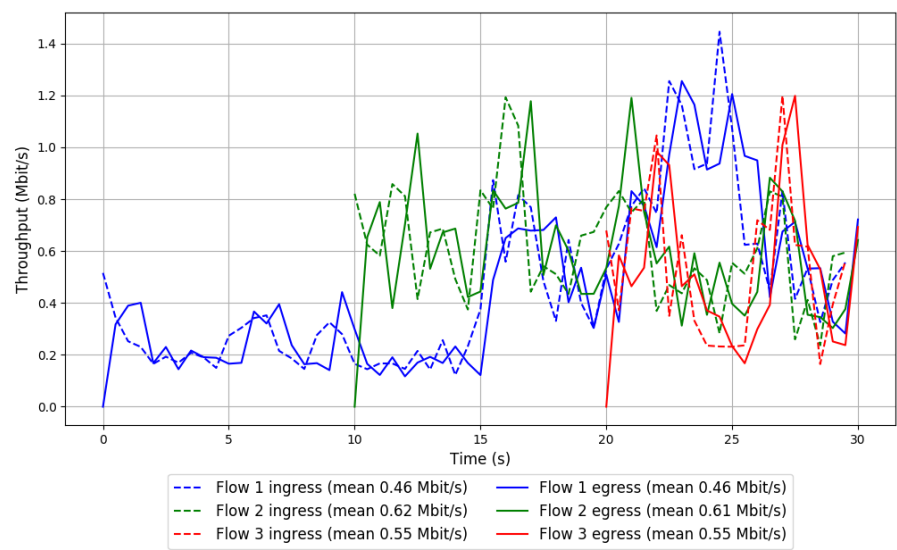


Run 2: Statistics of Sprout

Start at: 2018-05-24 09:37:32  
End at: 2018-05-24 09:38:02  
Local clock offset: 0.477 ms  
Remote clock offset: -2.175 ms

# Below is generated by plot.py at 2018-05-24 12:47:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.05 Mbit/s  
95th percentile per-packet one-way delay: 106.841 ms  
Loss rate: 0.36%  
-- Flow 1:  
Average throughput: 0.46 Mbit/s  
95th percentile per-packet one-way delay: 110.460 ms  
Loss rate: 0.15%  
-- Flow 2:  
Average throughput: 0.61 Mbit/s  
95th percentile per-packet one-way delay: 107.092 ms  
Loss rate: 0.64%  
-- Flow 3:  
Average throughput: 0.55 Mbit/s  
95th percentile per-packet one-way delay: 104.220 ms  
Loss rate: 0.25%

Run 2: Report of Sprout — Data Link

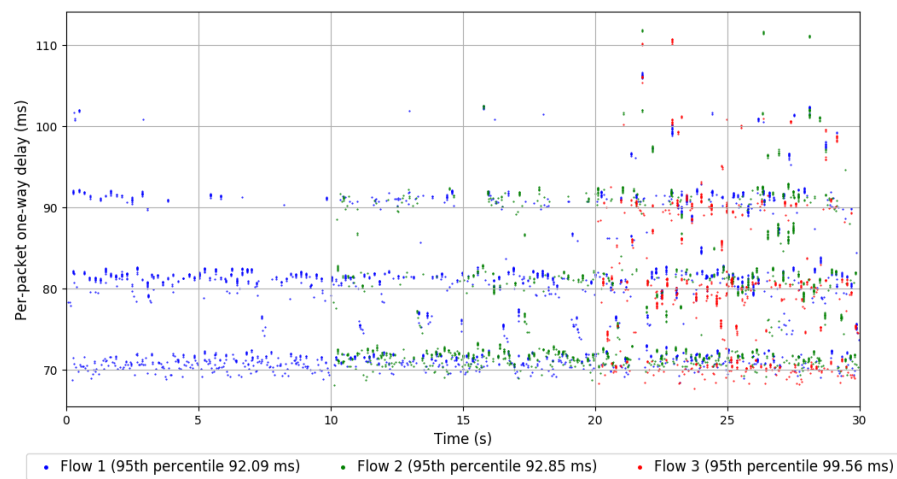
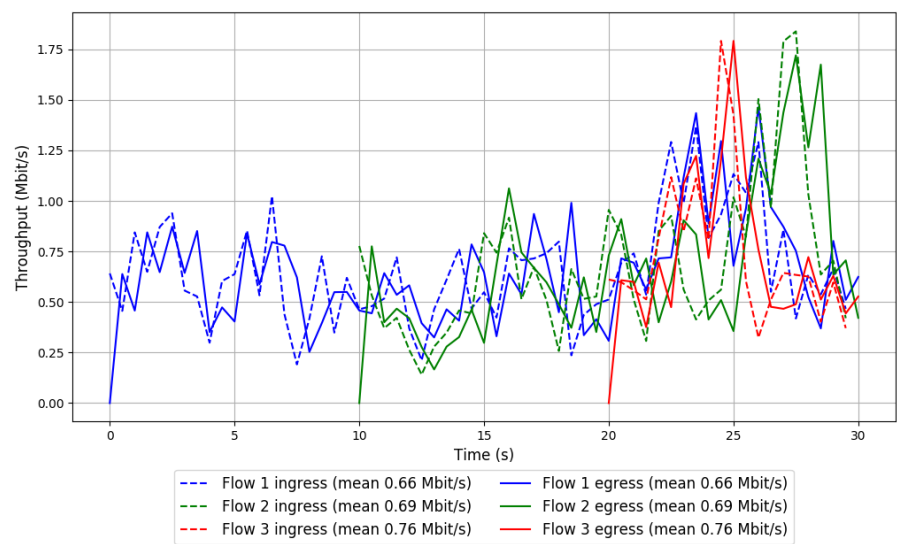


### Run 3: Statistics of Sprout

Start at: 2018-05-24 09:58:34  
End at: 2018-05-24 09:59:04  
Local clock offset: 4.084 ms  
Remote clock offset: -0.979 ms

```
# Below is generated by plot.py at 2018-05-24 12:47:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.37 Mbit/s
95th percentile per-packet one-way delay: 94.773 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 92.090 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.69 Mbit/s
95th percentile per-packet one-way delay: 92.852 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.76 Mbit/s
95th percentile per-packet one-way delay: 99.564 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

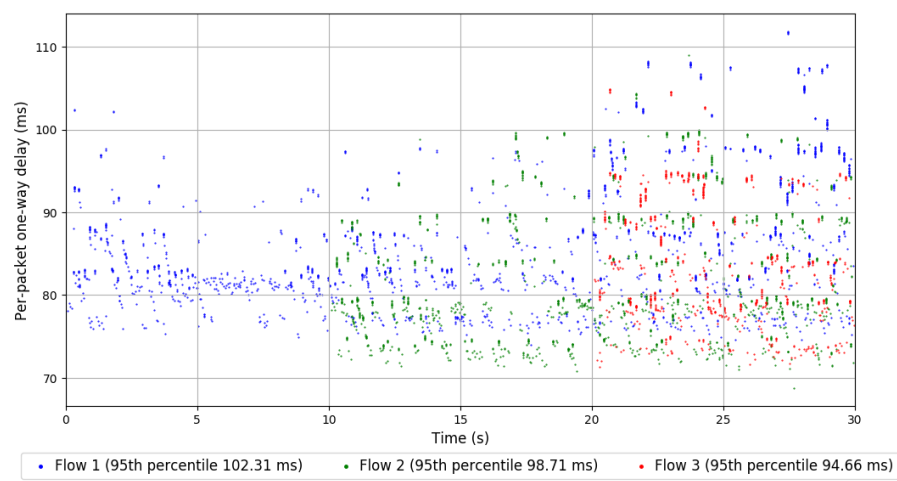
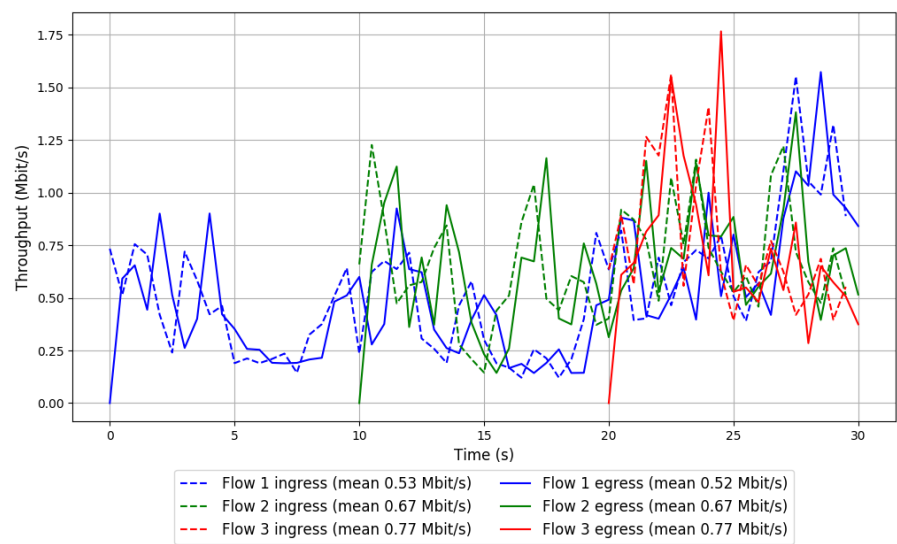


#### Run 4: Statistics of Sprout

Start at: 2018-05-24 10:19:34  
End at: 2018-05-24 10:20:04  
Local clock offset: -2.772 ms  
Remote clock offset: -0.33 ms

```
# Below is generated by plot.py at 2018-05-24 12:47:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 98.873 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 102.309 ms
Loss rate: 1.42%
-- Flow 2:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 98.709 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 0.77 Mbit/s
95th percentile per-packet one-way delay: 94.657 ms
Loss rate: 1.18%
```

Run 4: Report of Sprout — Data Link



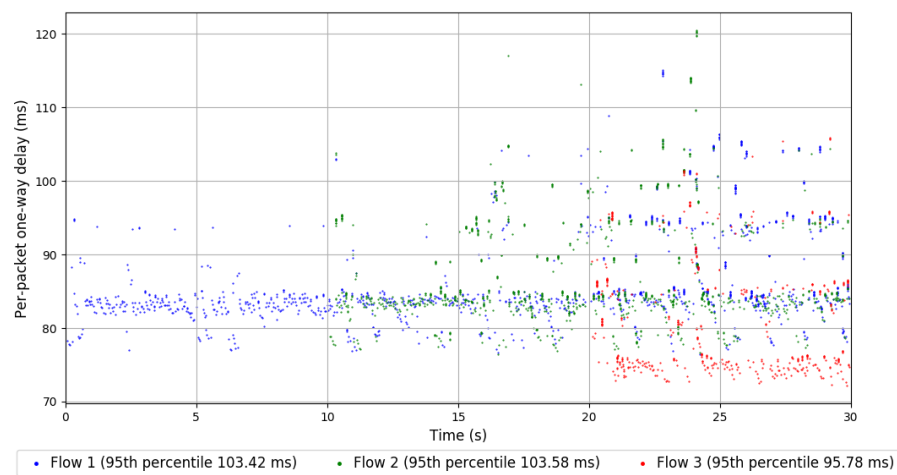
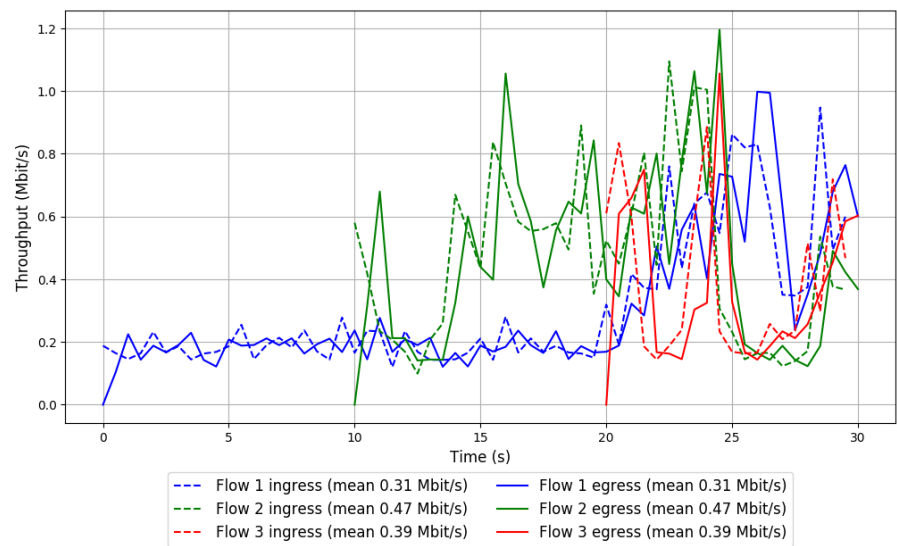
Run 5: Statistics of Sprout

Start at: 2018-05-24 10:40:35  
End at: 2018-05-24 10:41:05  
Local clock offset: 2.504 ms  
Remote clock offset: 0.091 ms

```
# Below is generated by plot.py at 2018-05-24 12:47:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.75 Mbit/s
95th percentile per-packet one-way delay: 101.303 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 103.421 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 103.584 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 95.785 ms
Loss rate: 0.00%
```



Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-05-24 11:01:39

End at: 2018-05-24 11:02:09

Local clock offset: 3.883 ms

Remote clock offset: 7.476 ms

# Below is generated by plot.py at 2018-05-24 12:47:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.67 Mbit/s

95th percentile per-packet one-way delay: 95.580 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 95.096 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 92.462 ms

Loss rate: 0.00%

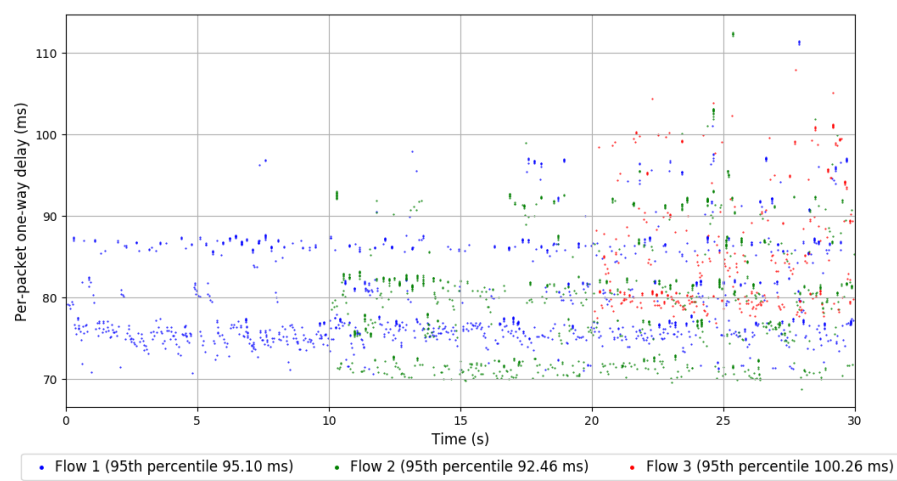
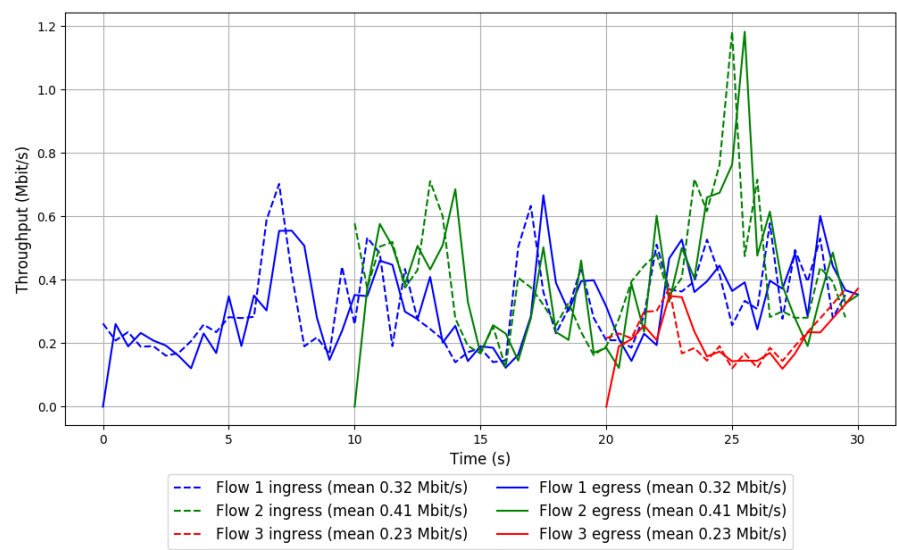
-- Flow 3:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 100.262 ms

Loss rate: 0.04%

Run 6: Report of Sprout — Data Link

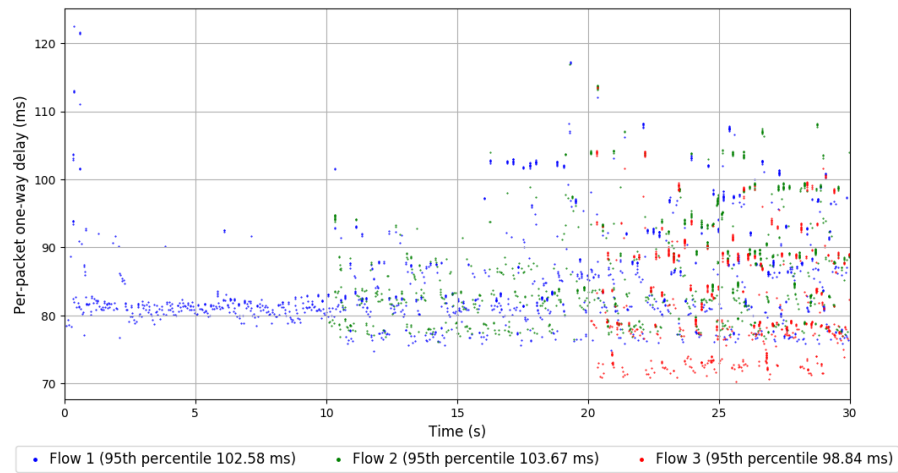
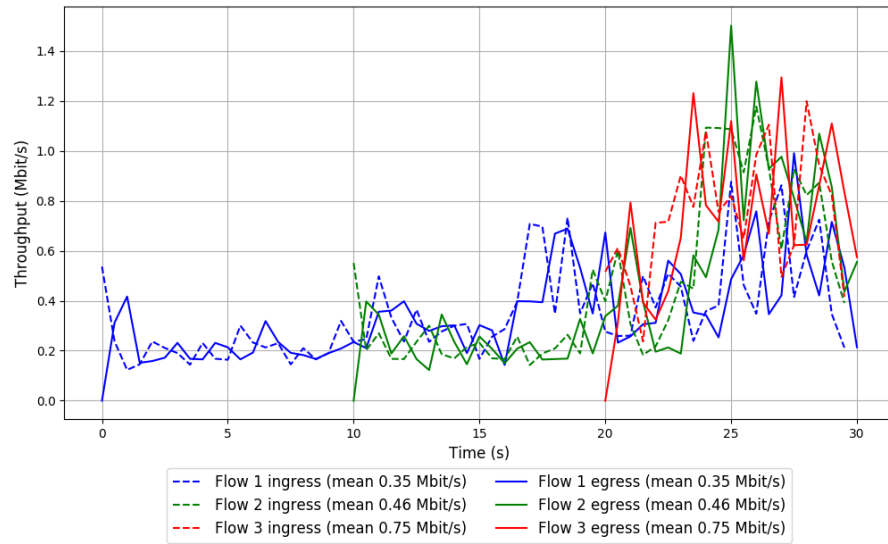


Run 7: Statistics of Sprout

Start at: 2018-05-24 11:22:40  
End at: 2018-05-24 11:23:10  
Local clock offset: 3.773 ms  
Remote clock offset: 11.225 ms

```
# Below is generated by plot.py at 2018-05-24 12:47:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.90 Mbit/s
95th percentile per-packet one-way delay: 102.533 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 102.583 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 103.675 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 0.75 Mbit/s
95th percentile per-packet one-way delay: 98.837 ms
Loss rate: 0.00%
```

## Run 7: Report of Sprout — Data Link

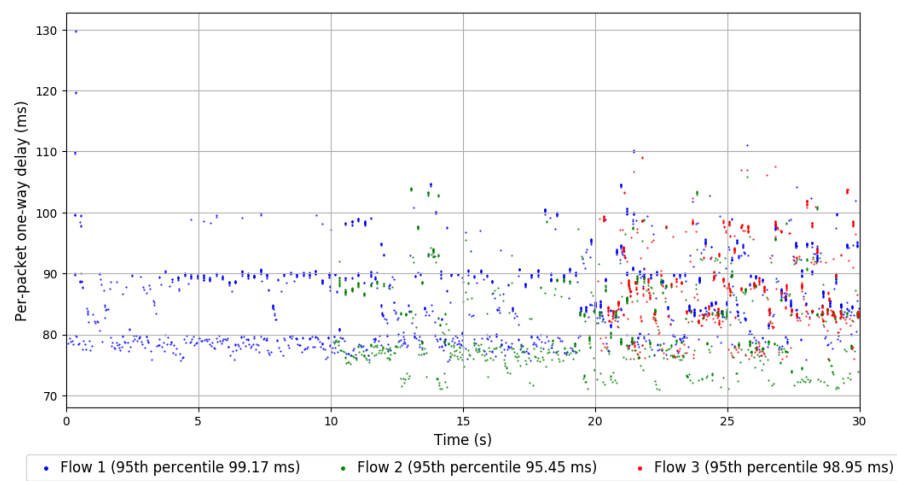
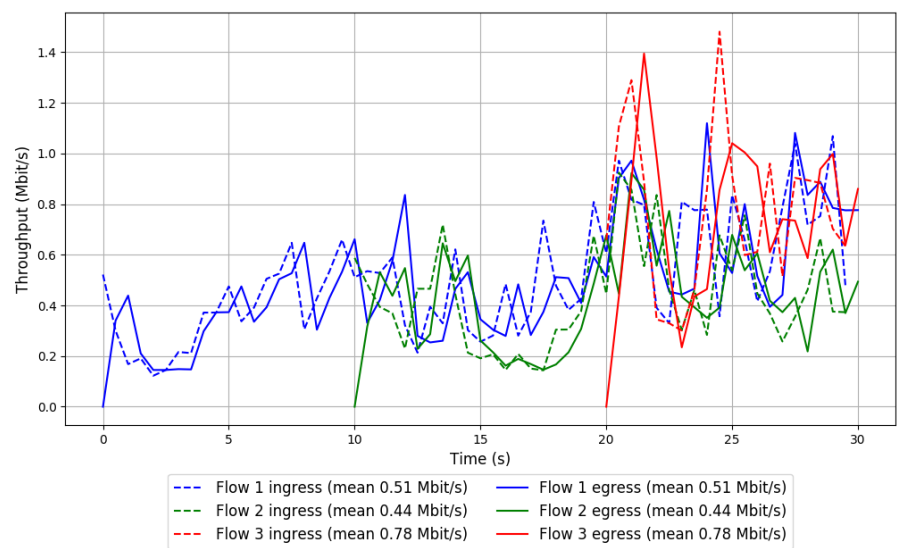


Run 8: Statistics of Sprout

Start at: 2018-05-24 11:43:42  
End at: 2018-05-24 11:44:12  
Local clock offset: 3.279 ms  
Remote clock offset: 14.118 ms

```
# Below is generated by plot.py at 2018-05-24 12:47:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.05 Mbit/s
95th percentile per-packet one-way delay: 98.668 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 99.168 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 95.449 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 98.952 ms
Loss rate: 0.01%
```

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-05-24 12:04:55

End at: 2018-05-24 12:05:25

Local clock offset: 3.304 ms

Remote clock offset: 3.422 ms

# Below is generated by plot.py at 2018-05-24 12:47:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 100.110 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 99.651 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 100.709 ms

Loss rate: 0.71%

-- Flow 3:

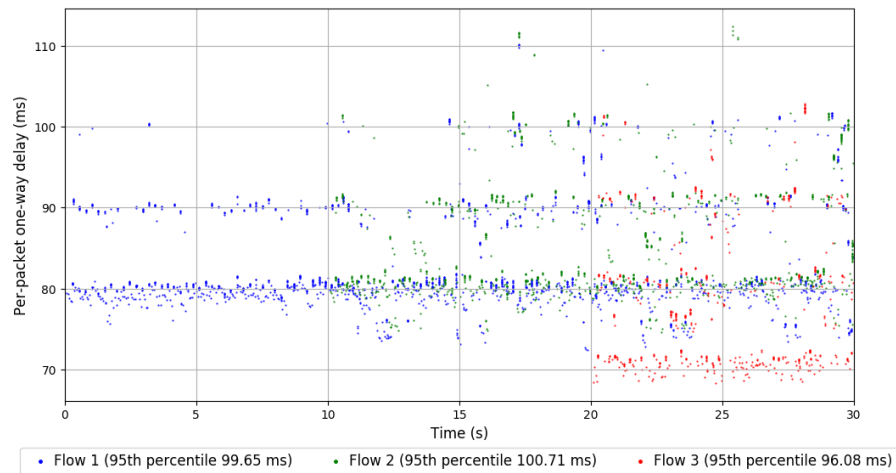
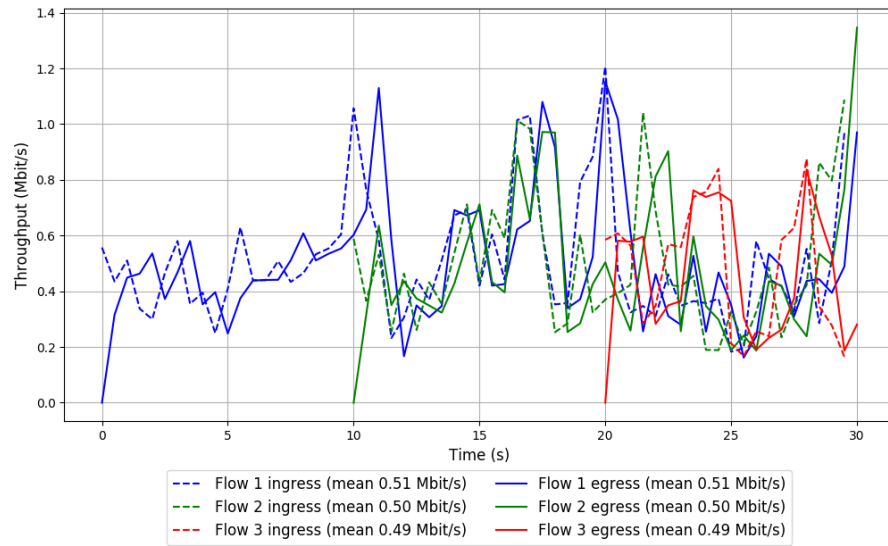
Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 96.076 ms

Loss rate: 0.00%



## Run 9: Report of Sprout — Data Link

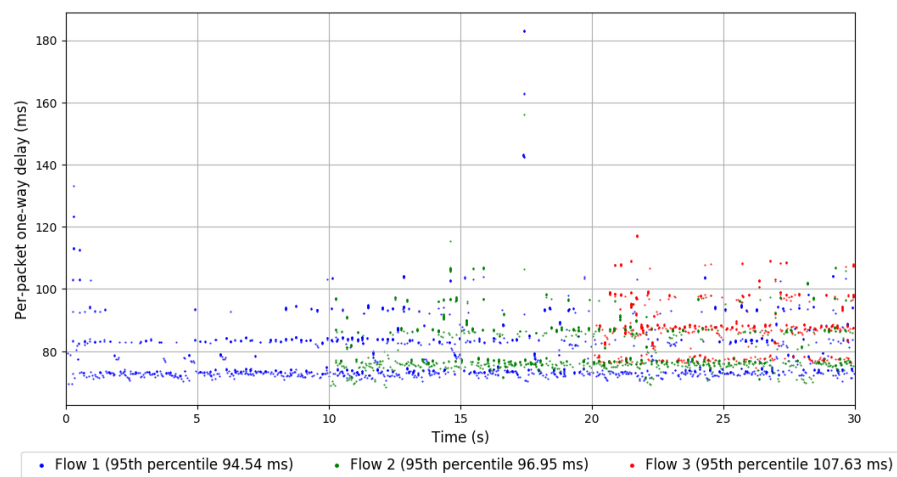
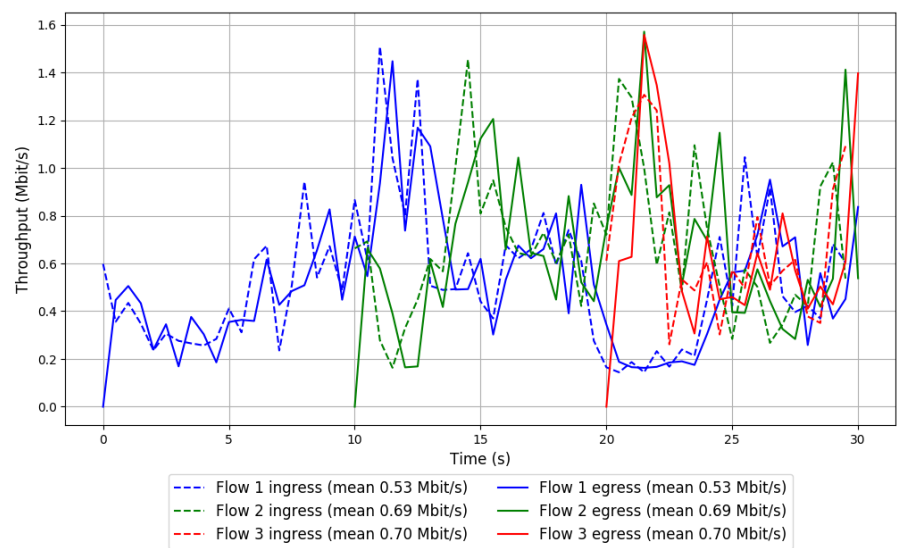


Run 10: Statistics of Sprout

Start at: 2018-05-24 12:25:55  
End at: 2018-05-24 12:26:25  
Local clock offset: 3.917 ms  
Remote clock offset: -3.467 ms

```
# Below is generated by plot.py at 2018-05-24 12:47:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 98.732 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 94.538 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.69 Mbit/s
95th percentile per-packet one-way delay: 96.947 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.70 Mbit/s
95th percentile per-packet one-way delay: 107.629 ms
Loss rate: 0.01%
```

Run 10: Report of Sprout — Data Link

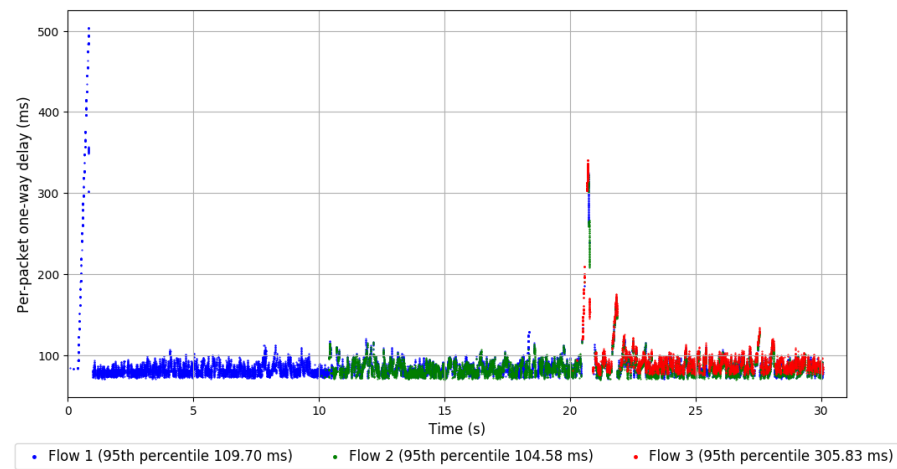
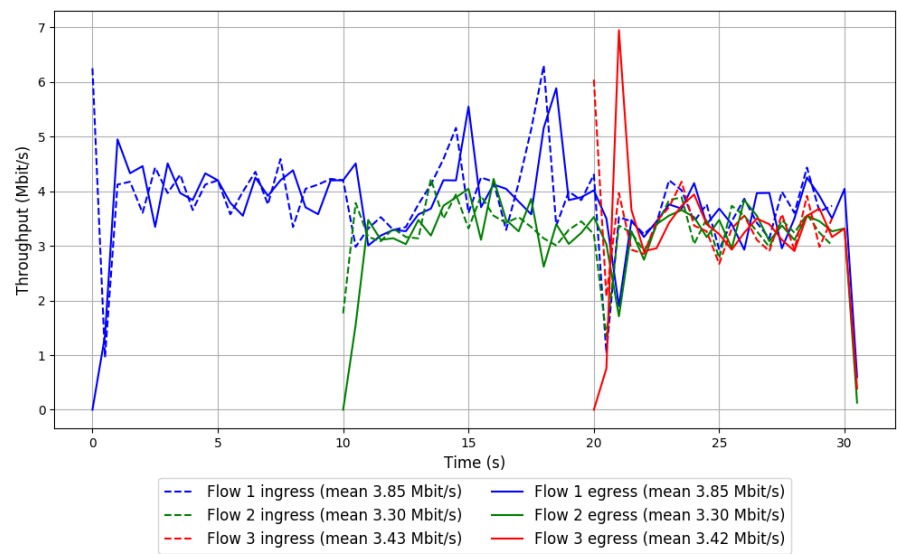


Run 1: Statistics of TaoVA-100x

Start at: 2018-05-24 09:27:02  
End at: 2018-05-24 09:27:32  
Local clock offset: -9.236 ms  
Remote clock offset: -1.483 ms

# Below is generated by plot.py at 2018-05-24 12:47:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 7.18 Mbit/s  
95th percentile per-packet one-way delay: 116.790 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 3.85 Mbit/s  
95th percentile per-packet one-way delay: 109.698 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 3.30 Mbit/s  
95th percentile per-packet one-way delay: 104.577 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 3.42 Mbit/s  
95th percentile per-packet one-way delay: 305.829 ms  
Loss rate: 0.27%

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

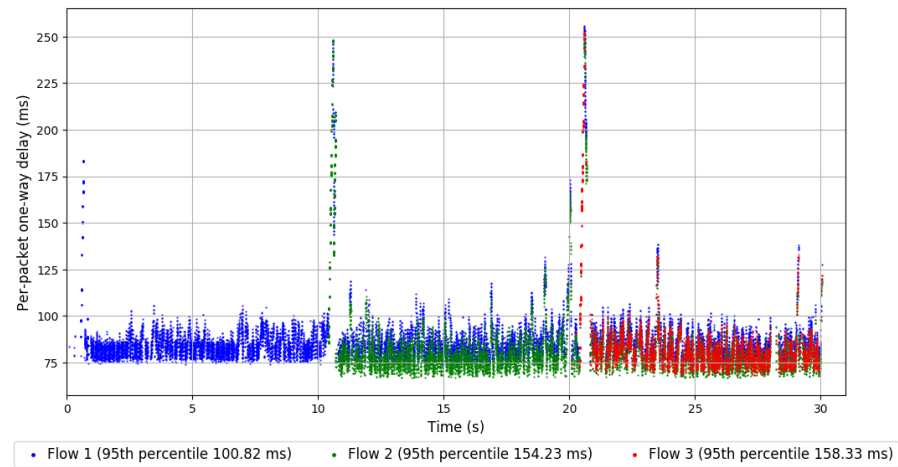
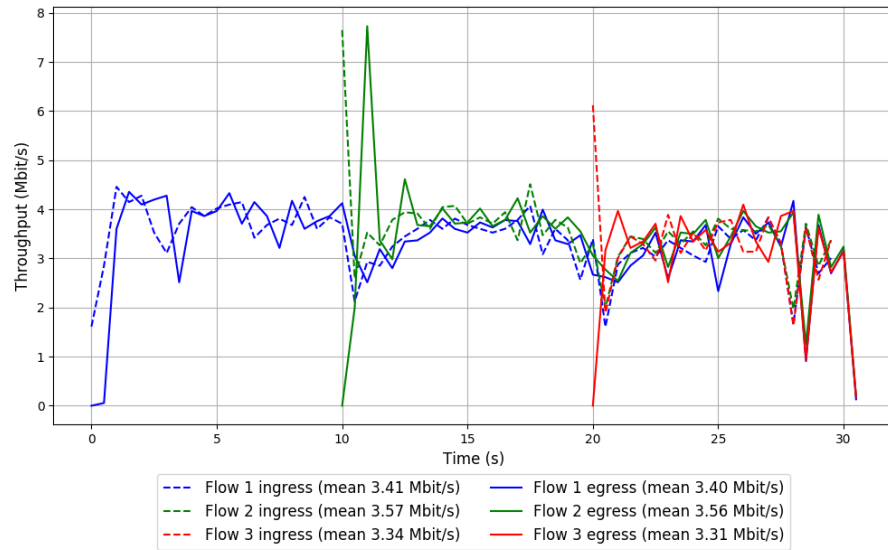


Run 2: Statistics of TaoVA-100x

Start at: 2018-05-24 09:48:01  
End at: 2018-05-24 09:48:31  
Local clock offset: 4.746 ms  
Remote clock offset: -1.182 ms

# Below is generated by plot.py at 2018-05-24 12:47:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 6.87 Mbit/s  
95th percentile per-packet one-way delay: 115.141 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 3.40 Mbit/s  
95th percentile per-packet one-way delay: 100.820 ms  
Loss rate: 0.20%  
-- Flow 2:  
Average throughput: 3.56 Mbit/s  
95th percentile per-packet one-way delay: 154.229 ms  
Loss rate: 0.36%  
-- Flow 3:  
Average throughput: 3.31 Mbit/s  
95th percentile per-packet one-way delay: 158.327 ms  
Loss rate: 0.90%

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



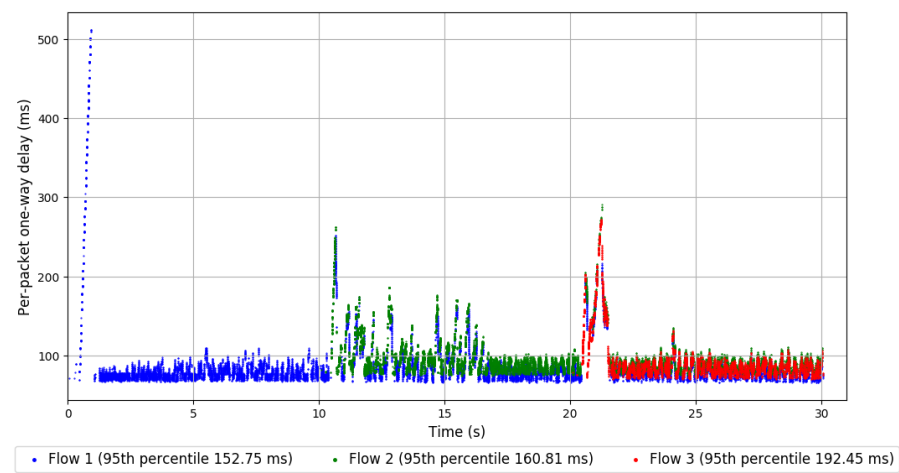
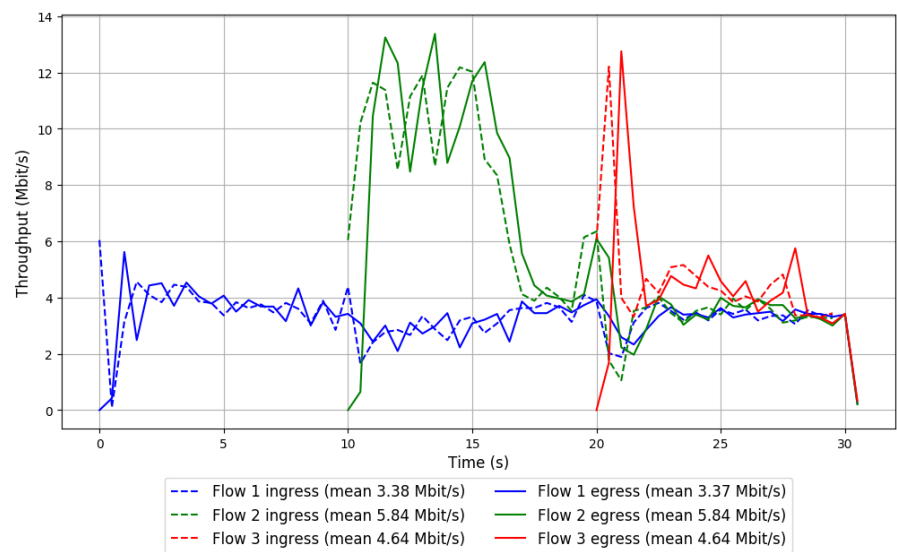
Run 3: Statistics of TaoVA-100x

Start at: 2018-05-24 10:09:02  
End at: 2018-05-24 10:09:32  
Local clock offset: -1.213 ms  
Remote clock offset: -1.086 ms

# Below is generated by plot.py at 2018-05-24 12:47:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.80 Mbit/s  
95th percentile per-packet one-way delay: 162.918 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 3.37 Mbit/s  
95th percentile per-packet one-way delay: 152.750 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 5.84 Mbit/s  
95th percentile per-packet one-way delay: 160.807 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 4.64 Mbit/s  
95th percentile per-packet one-way delay: 192.453 ms  
Loss rate: 0.14%



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

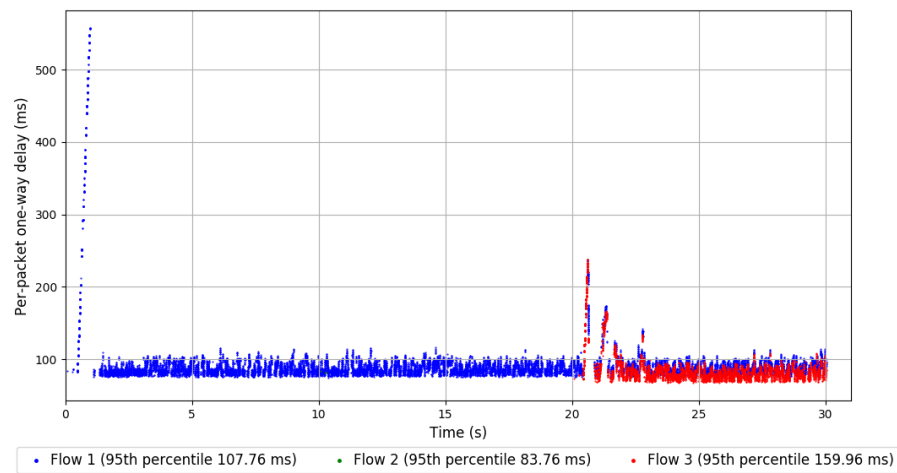
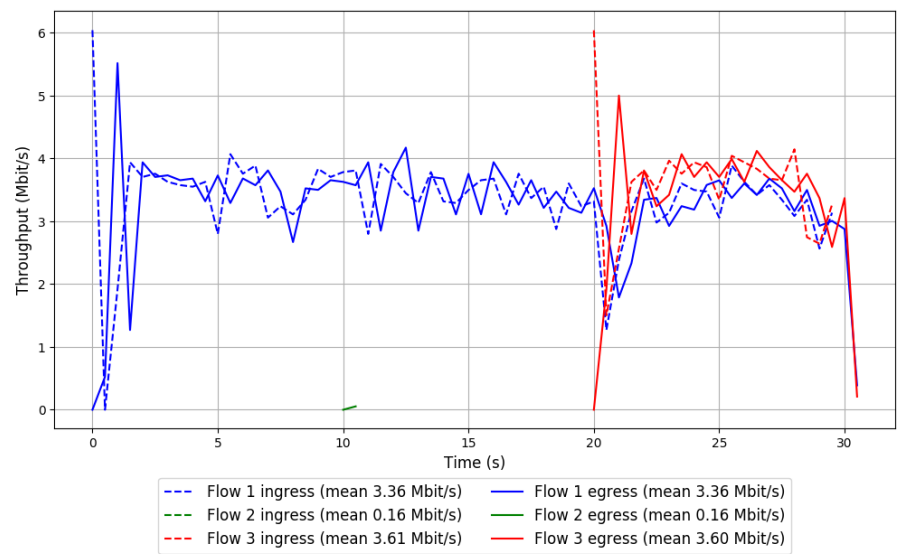


Run 4: Statistics of TaoVA-100x

Start at: 2018-05-24 10:30:04  
End at: 2018-05-24 10:30:34  
Local clock offset: -0.65 ms  
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2018-05-24 12:47:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.55 Mbit/s  
95th percentile per-packet one-way delay: 122.252 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 3.36 Mbit/s  
95th percentile per-packet one-way delay: 107.757 ms  
Loss rate: 0.15%  
-- Flow 2:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 83.757 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 3.60 Mbit/s  
95th percentile per-packet one-way delay: 159.962 ms  
Loss rate: 0.32%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-05-24 10:51:06

End at: 2018-05-24 10:51:36

Local clock offset: 4.225 ms

Remote clock offset: 3.651 ms

# Below is generated by plot.py at 2018-05-24 12:47:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 7.15 Mbit/s

95th percentile per-packet one-way delay: 173.837 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 3.40 Mbit/s

95th percentile per-packet one-way delay: 149.095 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 3.32 Mbit/s

95th percentile per-packet one-way delay: 131.096 ms

Loss rate: 0.10%

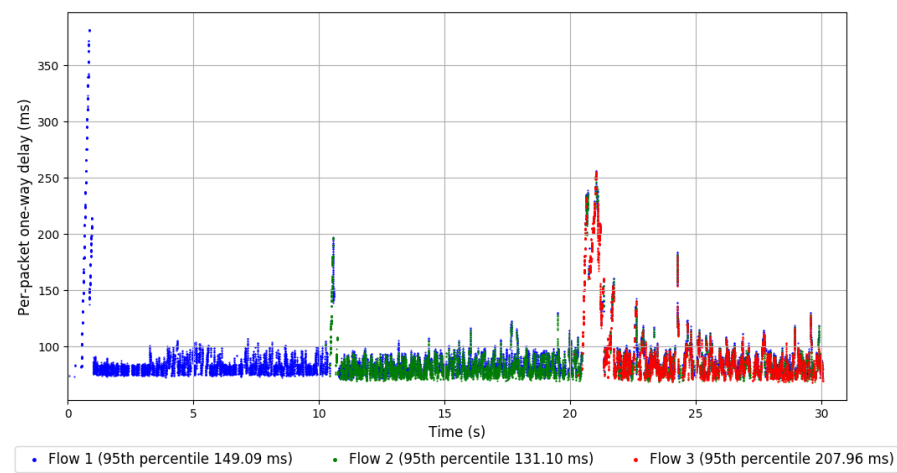
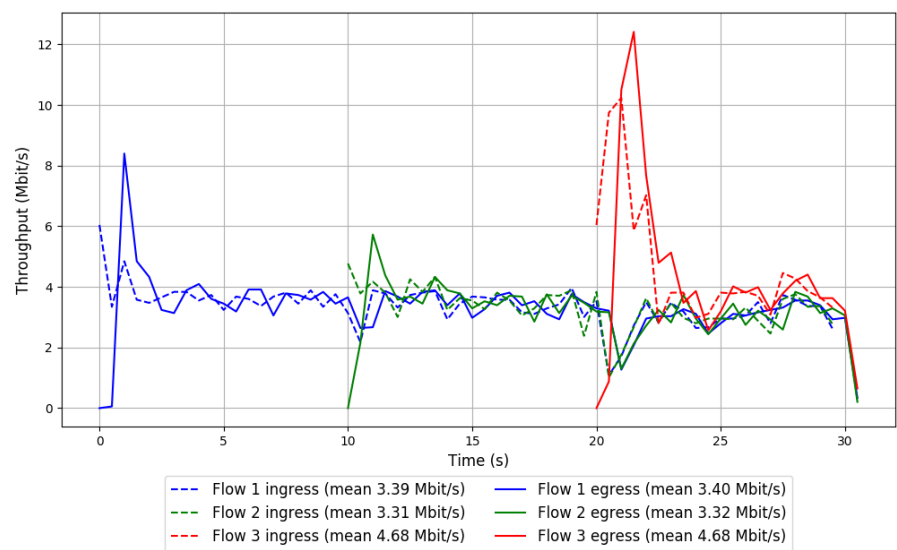
-- Flow 3:

Average throughput: 4.68 Mbit/s

95th percentile per-packet one-way delay: 207.958 ms

Loss rate: 0.14%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-05-24 11:12:08

End at: 2018-05-24 11:12:38

Local clock offset: 3.622 ms

Remote clock offset: 9.588 ms

# Below is generated by plot.py at 2018-05-24 12:47:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 7.37 Mbit/s

95th percentile per-packet one-way delay: 153.163 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.65 Mbit/s

95th percentile per-packet one-way delay: 147.200 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.61 Mbit/s

95th percentile per-packet one-way delay: 123.599 ms

Loss rate: 0.00%

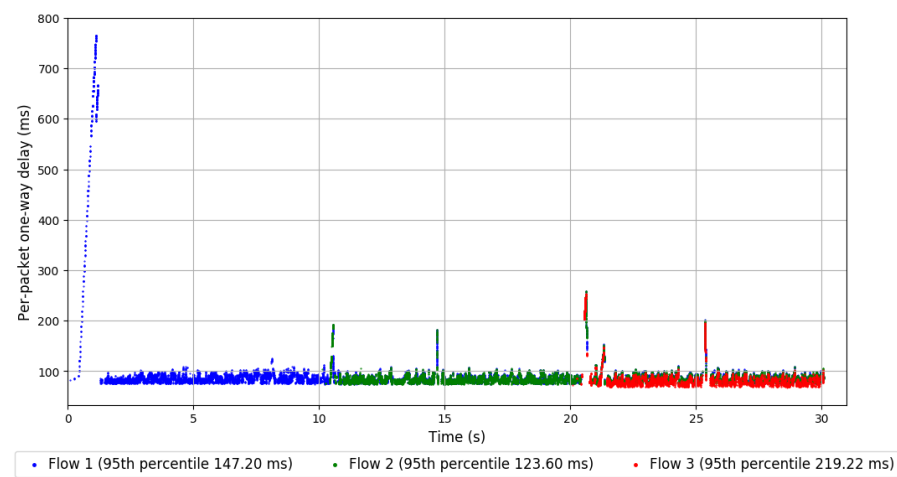
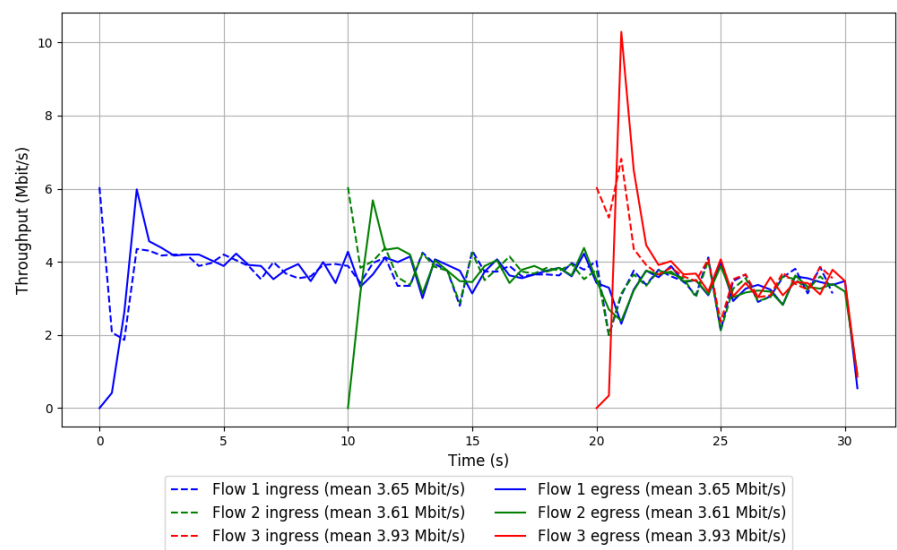
-- Flow 3:

Average throughput: 3.93 Mbit/s

95th percentile per-packet one-way delay: 219.219 ms

Loss rate: 0.00%

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



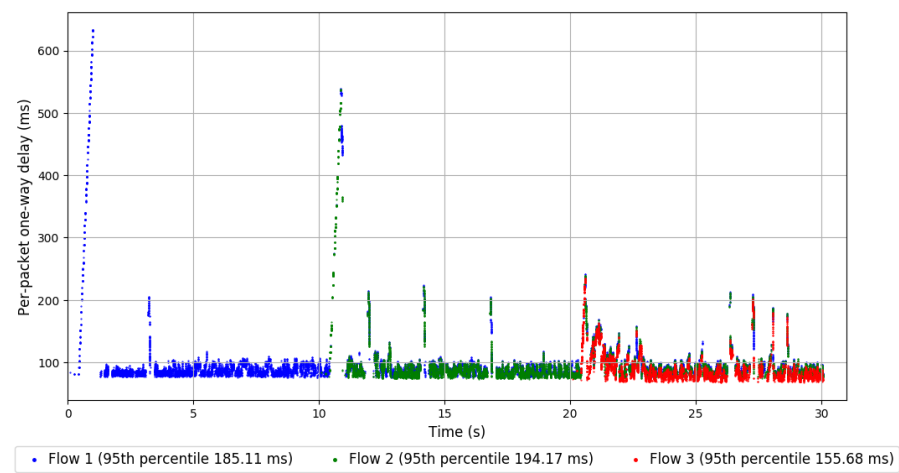
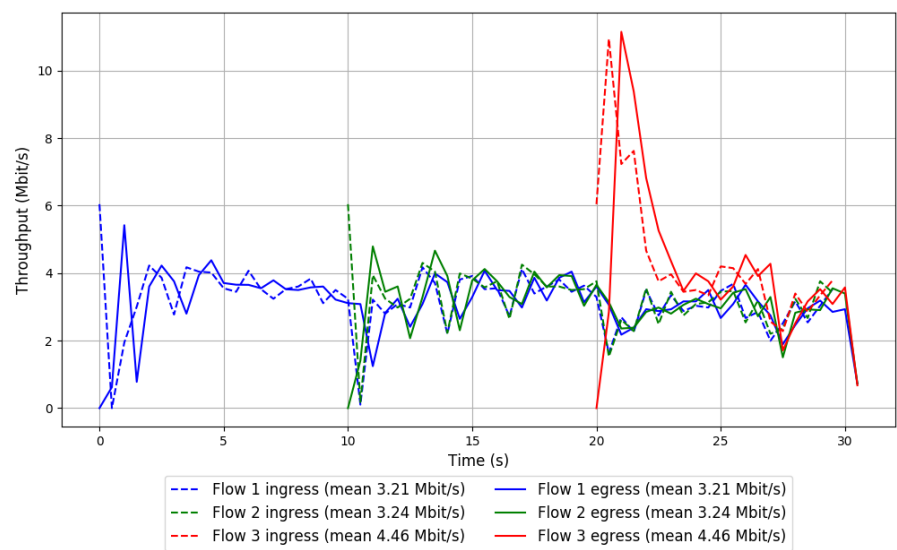
Run 7: Statistics of TaoVA-100x

Start at: 2018-05-24 11:33:10  
End at: 2018-05-24 11:33:40  
Local clock offset: 3.262 ms  
Remote clock offset: 12.712 ms

# Below is generated by plot.py at 2018-05-24 12:47:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 6.85 Mbit/s  
95th percentile per-packet one-way delay: 181.933 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 3.21 Mbit/s  
95th percentile per-packet one-way delay: 185.107 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 3.24 Mbit/s  
95th percentile per-packet one-way delay: 194.171 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 4.46 Mbit/s  
95th percentile per-packet one-way delay: 155.676 ms  
Loss rate: 0.06%



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

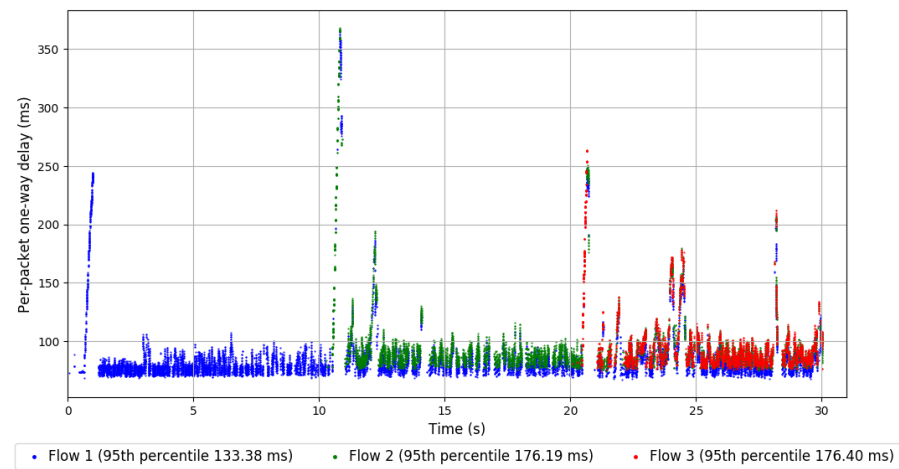
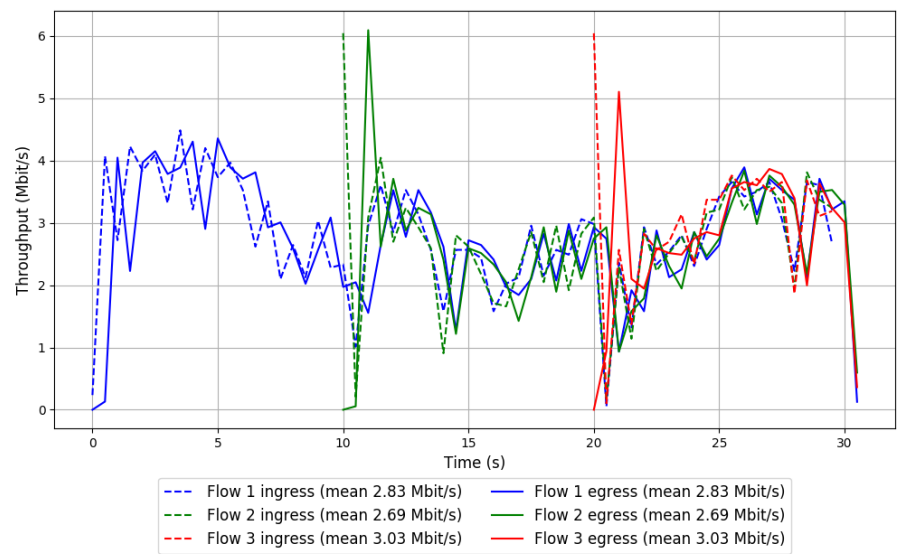


Run 8: Statistics of TaoVA-100x

Start at: 2018-05-24 11:54:15  
End at: 2018-05-24 11:54:45  
Local clock offset: 3.12 ms  
Remote clock offset: 15.183 ms

# Below is generated by plot.py at 2018-05-24 12:47:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 5.62 Mbit/s  
95th percentile per-packet one-way delay: 161.734 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 2.83 Mbit/s  
95th percentile per-packet one-way delay: 133.383 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 2.69 Mbit/s  
95th percentile per-packet one-way delay: 176.189 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 3.03 Mbit/s  
95th percentile per-packet one-way delay: 176.401 ms  
Loss rate: 0.34%

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

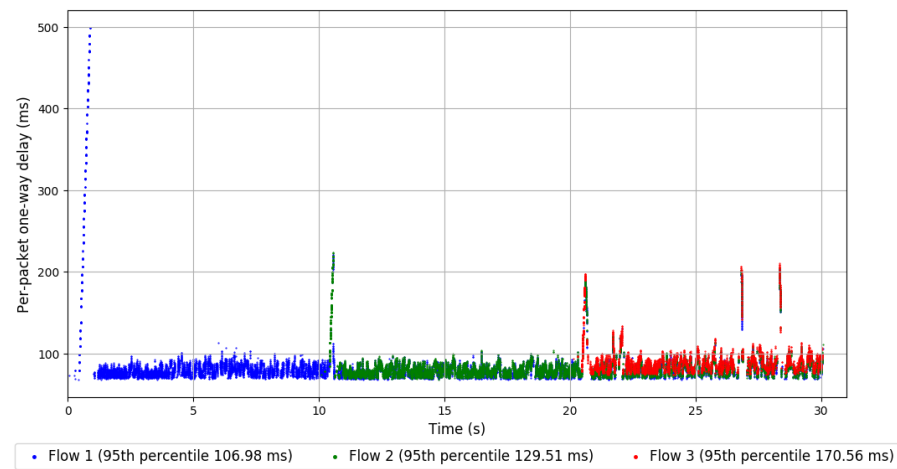
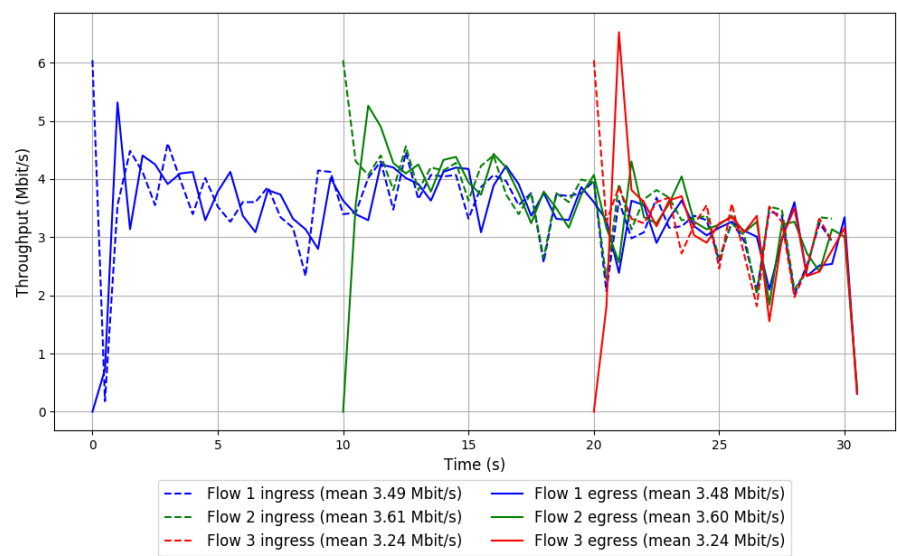


Run 9: Statistics of TaoVA-100x

Start at: 2018-05-24 12:15:24  
End at: 2018-05-24 12:15:54  
Local clock offset: 3.655 ms  
Remote clock offset: -1.028 ms

# Below is generated by plot.py at 2018-05-24 12:47:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 6.95 Mbit/s  
95th percentile per-packet one-way delay: 132.742 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 3.48 Mbit/s  
95th percentile per-packet one-way delay: 106.983 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 3.60 Mbit/s  
95th percentile per-packet one-way delay: 129.511 ms  
Loss rate: 0.23%  
-- Flow 3:  
Average throughput: 3.24 Mbit/s  
95th percentile per-packet one-way delay: 170.559 ms  
Loss rate: 0.40%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-05-24 12:36:24

End at: 2018-05-24 12:36:54

Local clock offset: 2.69 ms

Remote clock offset: -5.13 ms

# Below is generated by plot.py at 2018-05-24 12:47:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 5.81 Mbit/s

95th percentile per-packet one-way delay: 222.331 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 2.96 Mbit/s

95th percentile per-packet one-way delay: 186.246 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 3.03 Mbit/s

95th percentile per-packet one-way delay: 225.671 ms

Loss rate: 0.00%

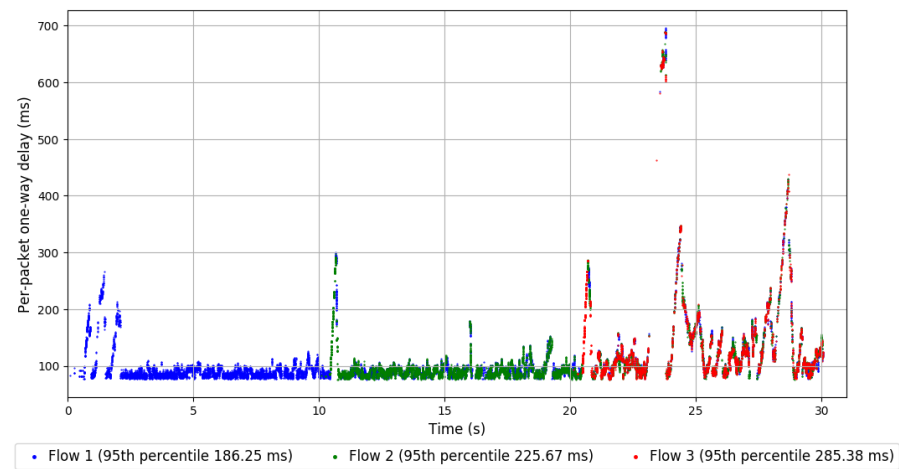
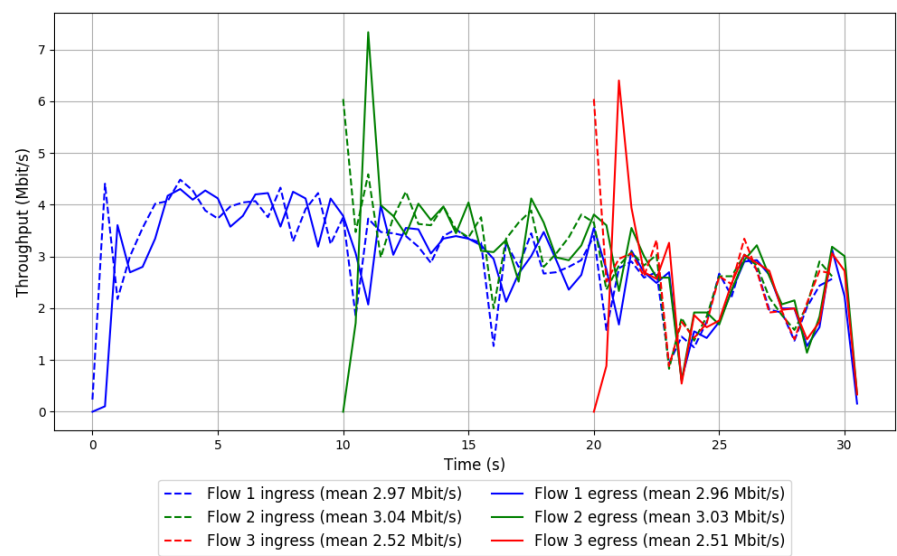
-- Flow 3:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 285.378 ms

Loss rate: 0.52%

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



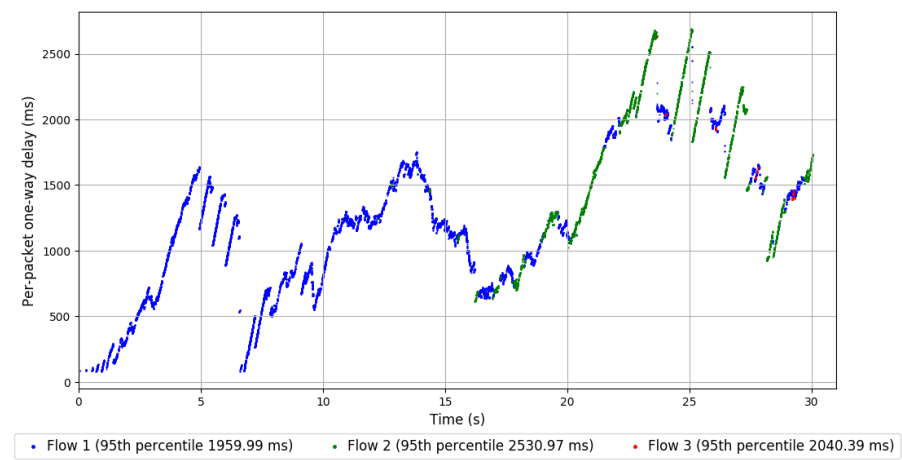
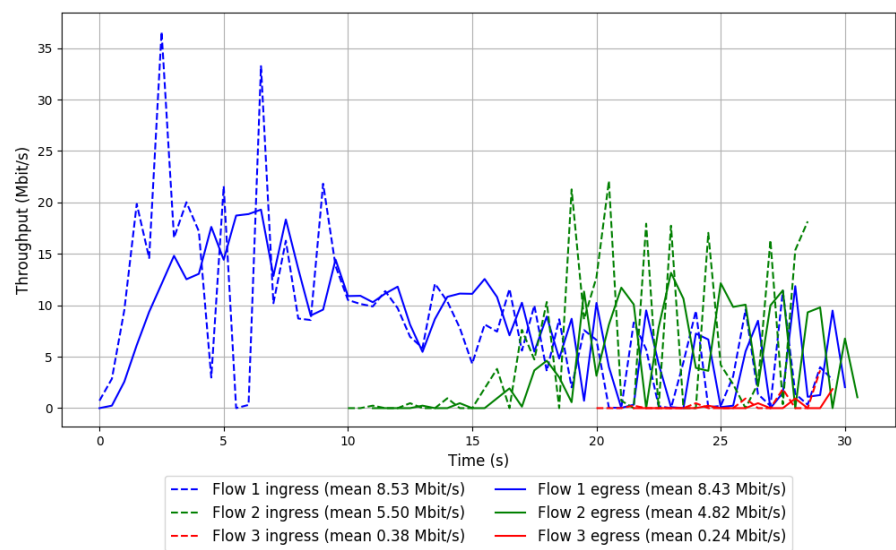
Run 1: Statistics of TCP Vegas

Start at: 2018-05-24 09:21:47  
End at: 2018-05-24 09:22:17  
Local clock offset: -10.325 ms  
Remote clock offset: -0.945 ms

# Below is generated by plot.py at 2018-05-24 12:47:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 11.45 Mbit/s  
95th percentile per-packet one-way delay: 2247.504 ms  
Loss rate: 5.05%  
-- Flow 1:  
Average throughput: 8.43 Mbit/s  
95th percentile per-packet one-way delay: 1959.987 ms  
Loss rate: 1.40%  
-- Flow 2:  
Average throughput: 4.82 Mbit/s  
95th percentile per-packet one-way delay: 2530.971 ms  
Loss rate: 12.39%  
-- Flow 3:  
Average throughput: 0.24 Mbit/s  
95th percentile per-packet one-way delay: 2040.395 ms  
Loss rate: 51.12%



Run 1: Report of TCP Vegas — Data Link

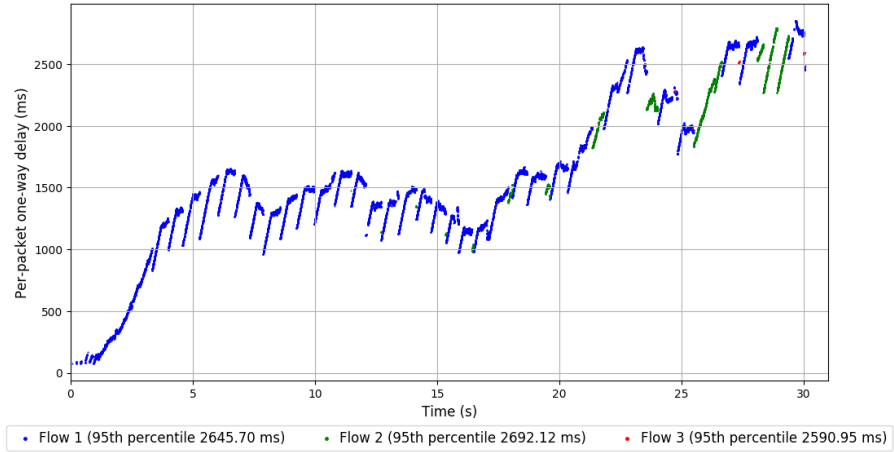
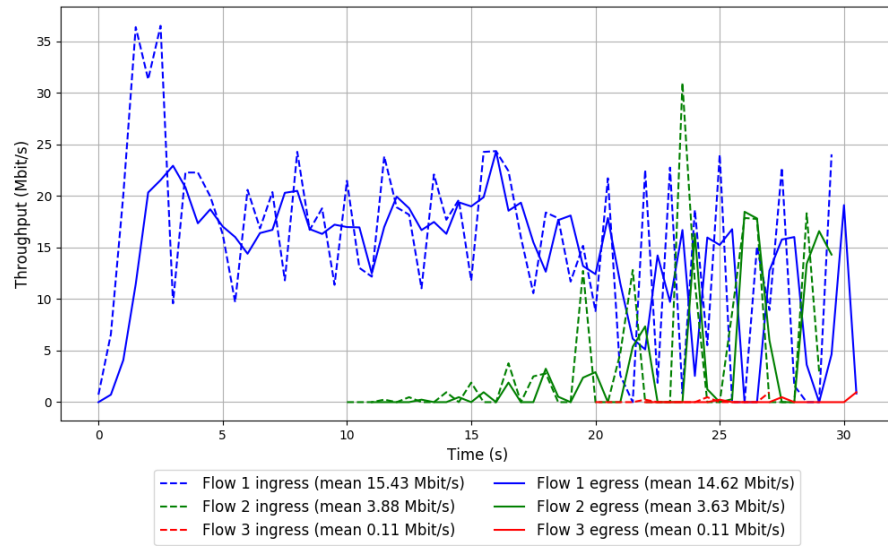


Run 2: Statistics of TCP Vegas

Start at: 2018-05-24 09:42:46  
End at: 2018-05-24 09:43:16  
Local clock offset: 3.087 ms  
Remote clock offset: -1.453 ms

# Below is generated by plot.py at 2018-05-24 12:47:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 16.81 Mbit/s  
95th percentile per-packet one-way delay: 2650.975 ms  
Loss rate: 6.41%  
-- Flow 1:  
Average throughput: 14.62 Mbit/s  
95th percentile per-packet one-way delay: 2645.704 ms  
Loss rate: 5.17%  
-- Flow 2:  
Average throughput: 3.63 Mbit/s  
95th percentile per-packet one-way delay: 2692.118 ms  
Loss rate: 14.09%  
-- Flow 3:  
Average throughput: 0.11 Mbit/s  
95th percentile per-packet one-way delay: 2590.955 ms  
Loss rate: 0.00%

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

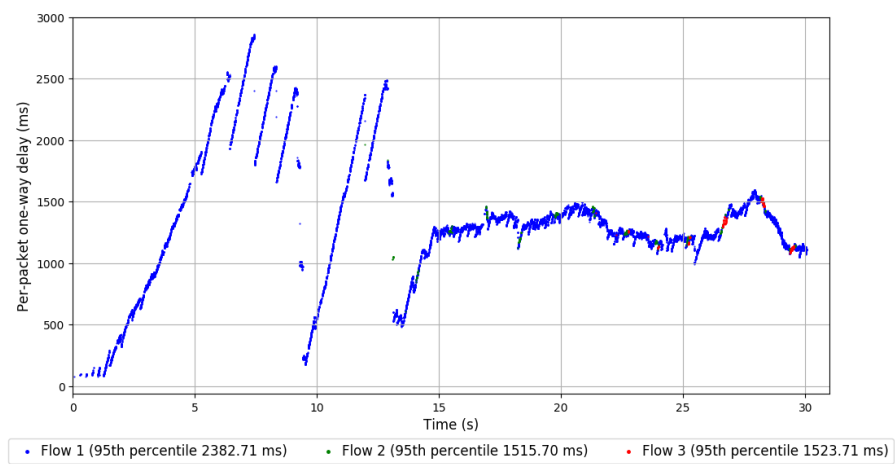
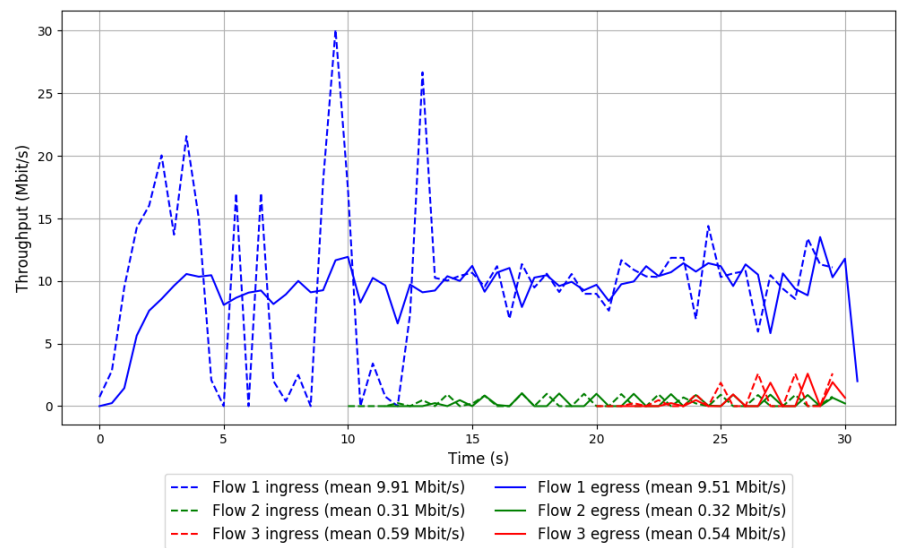


Run 3: Statistics of TCP Vegas

Start at: 2018-05-24 10:03:47  
End at: 2018-05-24 10:04:17  
Local clock offset: 0.611 ms  
Remote clock offset: -0.956 ms

# Below is generated by plot.py at 2018-05-24 12:47:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 9.84 Mbit/s  
95th percentile per-packet one-way delay: 2377.257 ms  
Loss rate: 4.50%  
-- Flow 1:  
Average throughput: 9.51 Mbit/s  
95th percentile per-packet one-way delay: 2382.711 ms  
Loss rate: 4.09%  
-- Flow 2:  
Average throughput: 0.32 Mbit/s  
95th percentile per-packet one-way delay: 1515.700 ms  
Loss rate: 7.18%  
-- Flow 3:  
Average throughput: 0.54 Mbit/s  
95th percentile per-packet one-way delay: 1523.714 ms  
Loss rate: 23.08%

Run 3: Report of TCP Vegas — Data Link

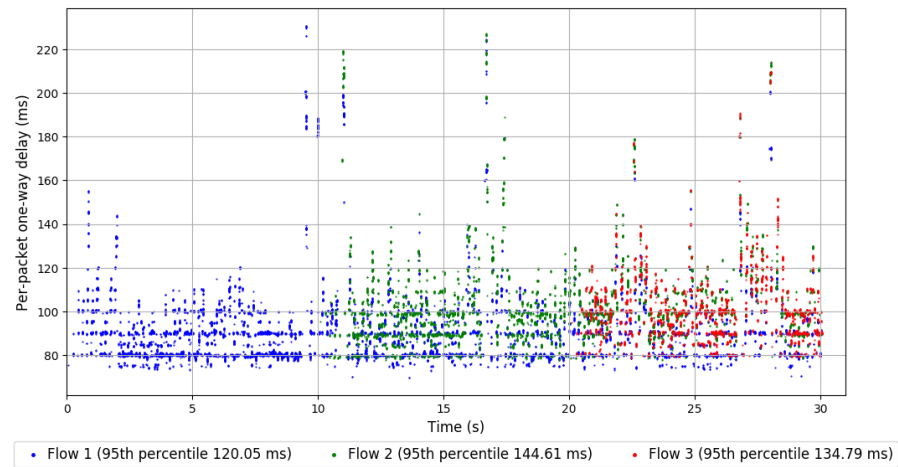
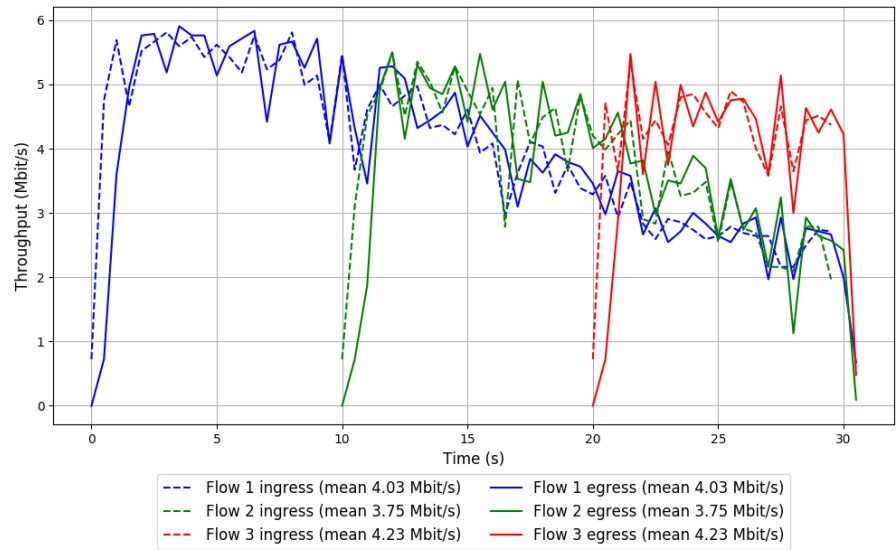


Run 4: Statistics of TCP Vegas

Start at: 2018-05-24 10:24:48  
End at: 2018-05-24 10:25:18  
Local clock offset: -2.892 ms  
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2018-05-24 12:47:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 7.92 Mbit/s  
95th percentile per-packet one-way delay: 134.123 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 4.03 Mbit/s  
95th percentile per-packet one-way delay: 120.054 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 3.75 Mbit/s  
95th percentile per-packet one-way delay: 144.610 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 4.23 Mbit/s  
95th percentile per-packet one-way delay: 134.787 ms  
Loss rate: 0.51%

# Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-05-24 10:45:49

End at: 2018-05-24 10:46:19

Local clock offset: 3.656 ms

Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2018-05-24 12:47:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 15.96 Mbit/s

95th percentile per-packet one-way delay: 2623.499 ms

Loss rate: 5.61%

-- Flow 1:

Average throughput: 13.56 Mbit/s

95th percentile per-packet one-way delay: 2643.138 ms

Loss rate: 5.15%

-- Flow 2:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 2613.343 ms

Loss rate: 7.09%

-- Flow 3:

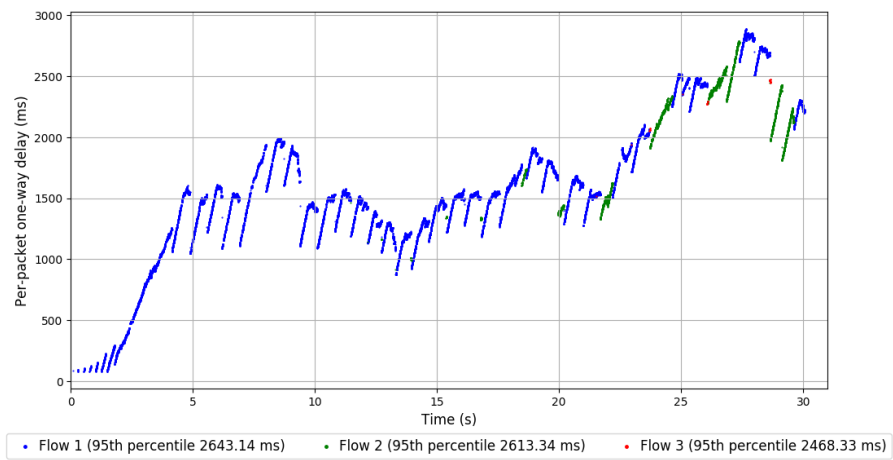
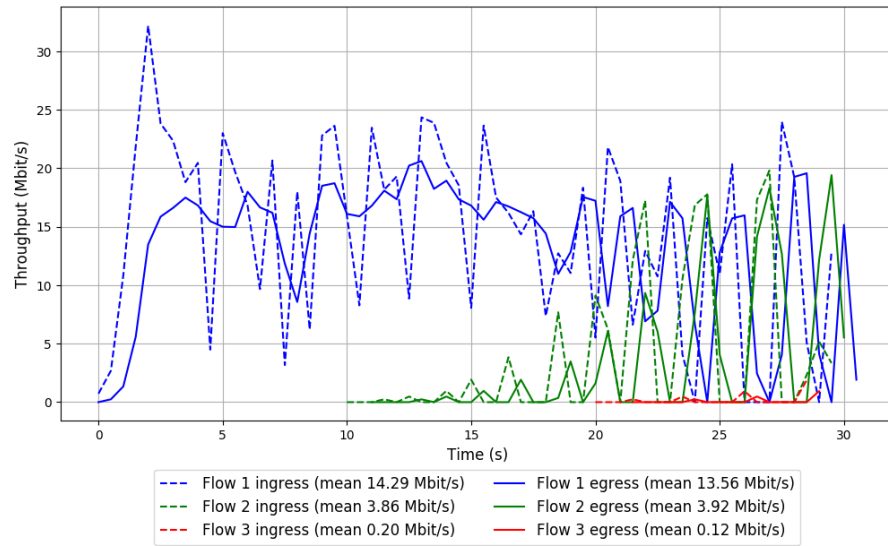
Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 2468.333 ms

Loss rate: 52.95%



# Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-05-24 11:06:52

End at: 2018-05-24 11:07:23

Local clock offset: 3.541 ms

Remote clock offset: 8.633 ms

# Below is generated by plot.py at 2018-05-24 12:47:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 16.28 Mbit/s

95th percentile per-packet one-way delay: 1734.951 ms

Loss rate: 5.34%

-- Flow 1:

Average throughput: 15.91 Mbit/s

95th percentile per-packet one-way delay: 1738.629 ms

Loss rate: 4.66%

-- Flow 2:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 1574.233 ms

Loss rate: 8.86%

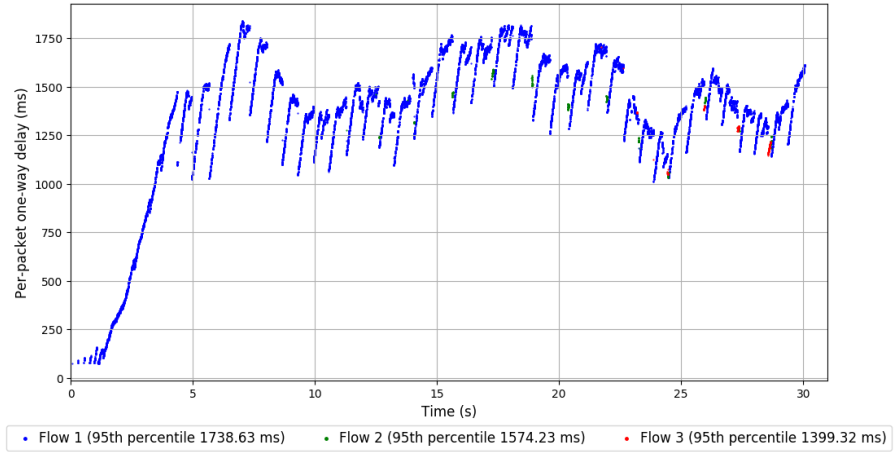
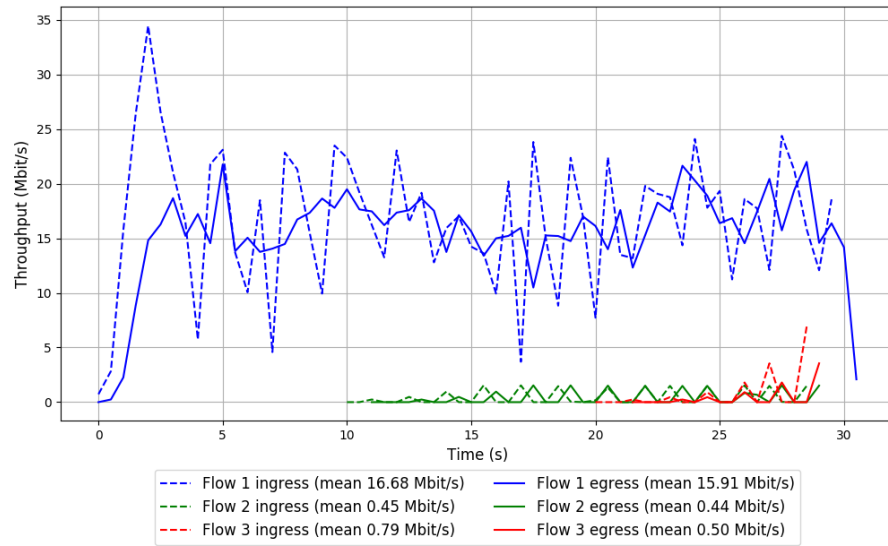
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 1399.315 ms

Loss rate: 49.86%

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

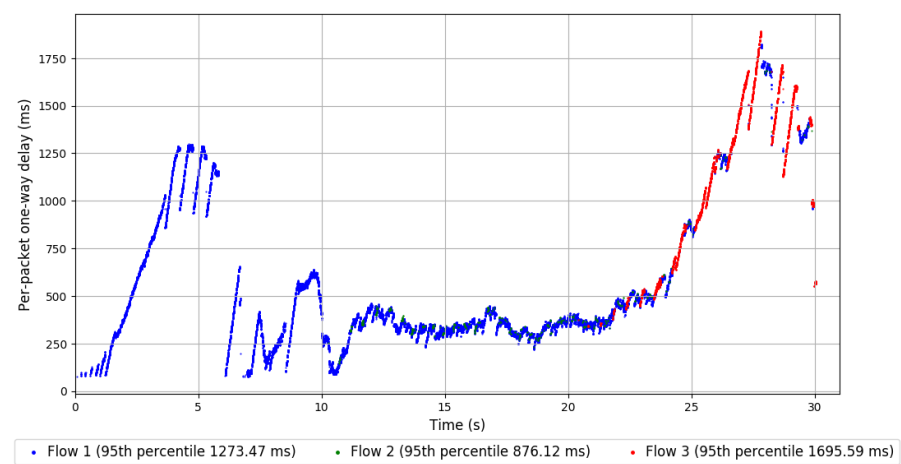
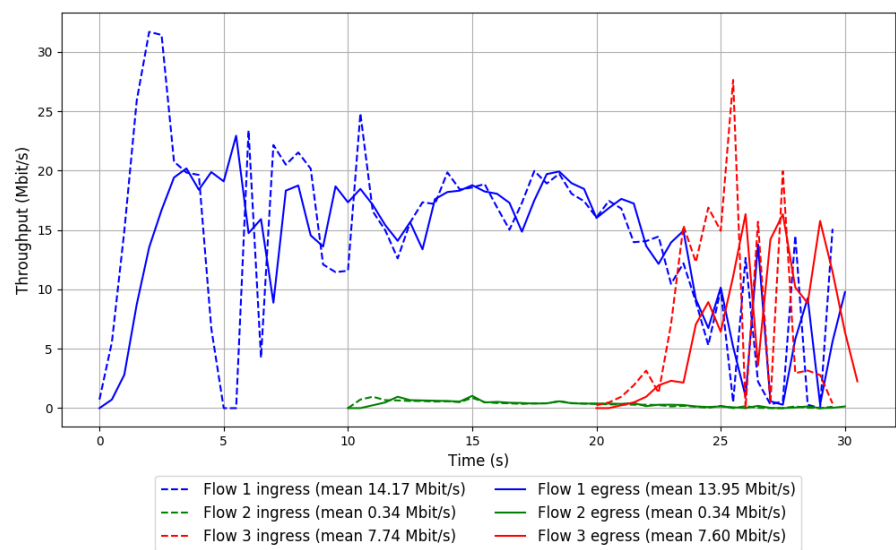


Run 7: Statistics of TCP Vegas

Start at: 2018-05-24 11:27:55  
End at: 2018-05-24 11:28:25  
Local clock offset: 3.659 ms  
Remote clock offset: 12.028 ms

# Below is generated by plot.py at 2018-05-24 12:47:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 16.57 Mbit/s  
95th percentile per-packet one-way delay: 1525.957 ms  
Loss rate: 1.57%  
-- Flow 1:  
Average throughput: 13.95 Mbit/s  
95th percentile per-packet one-way delay: 1273.469 ms  
Loss rate: 1.78%  
-- Flow 2:  
Average throughput: 0.34 Mbit/s  
95th percentile per-packet one-way delay: 876.121 ms  
Loss rate: 0.88%  
-- Flow 3:  
Average throughput: 7.60 Mbit/s  
95th percentile per-packet one-way delay: 1695.589 ms  
Loss rate: 0.43%

Run 7: Report of TCP Vegas — Data Link

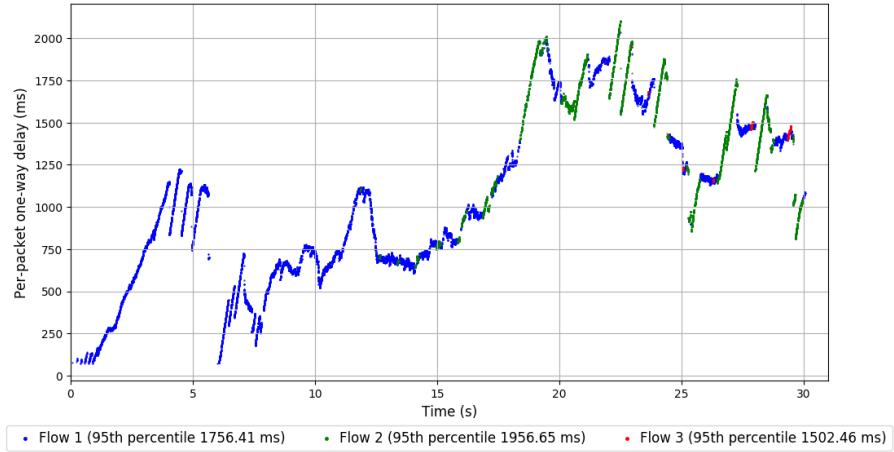
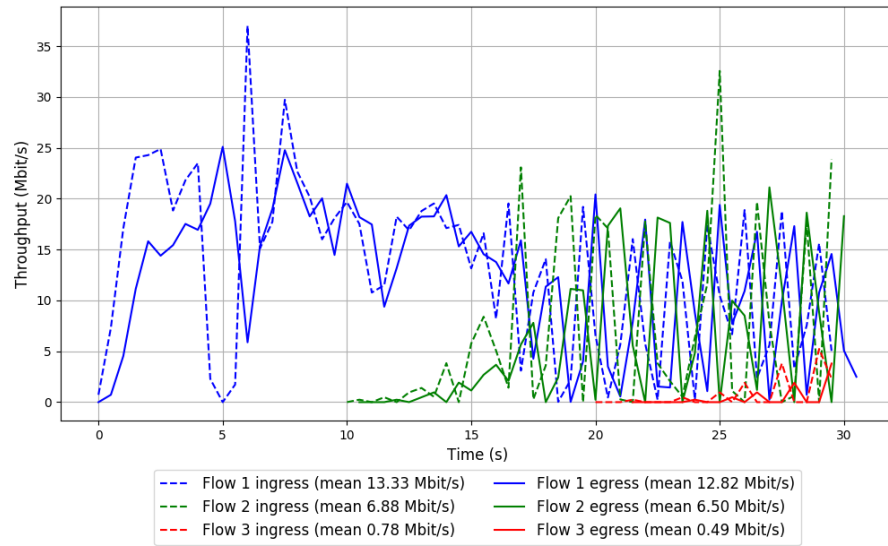


Run 8: Statistics of TCP Vegas

Start at: 2018-05-24 11:48:56  
End at: 2018-05-24 11:49:26  
Local clock offset: 3.205 ms  
Remote clock offset: 14.886 ms

# Below is generated by plot.py at 2018-05-24 12:47:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 17.13 Mbit/s  
95th percentile per-packet one-way delay: 1860.748 ms  
Loss rate: 5.03%  
-- Flow 1:  
Average throughput: 12.82 Mbit/s  
95th percentile per-packet one-way delay: 1756.414 ms  
Loss rate: 2.90%  
-- Flow 2:  
Average throughput: 6.50 Mbit/s  
95th percentile per-packet one-way delay: 1956.652 ms  
Loss rate: 8.70%  
-- Flow 3:  
Average throughput: 0.49 Mbit/s  
95th percentile per-packet one-way delay: 1502.465 ms  
Loss rate: 50.54%

# Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-05-24 12:10:09

End at: 2018-05-24 12:10:39

Local clock offset: 3.421 ms

Remote clock offset: 0.723 ms

# Below is generated by plot.py at 2018-05-24 12:47:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 9.86 Mbit/s

95th percentile per-packet one-way delay: 348.506 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 1.02 Mbit/s

95th percentile per-packet one-way delay: 308.882 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 12.71 Mbit/s

95th percentile per-packet one-way delay: 349.428 ms

Loss rate: 0.97%

-- Flow 3:

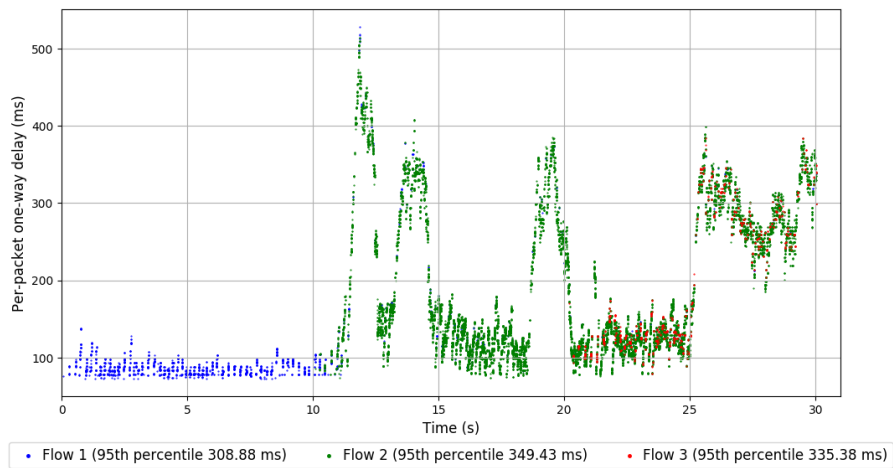
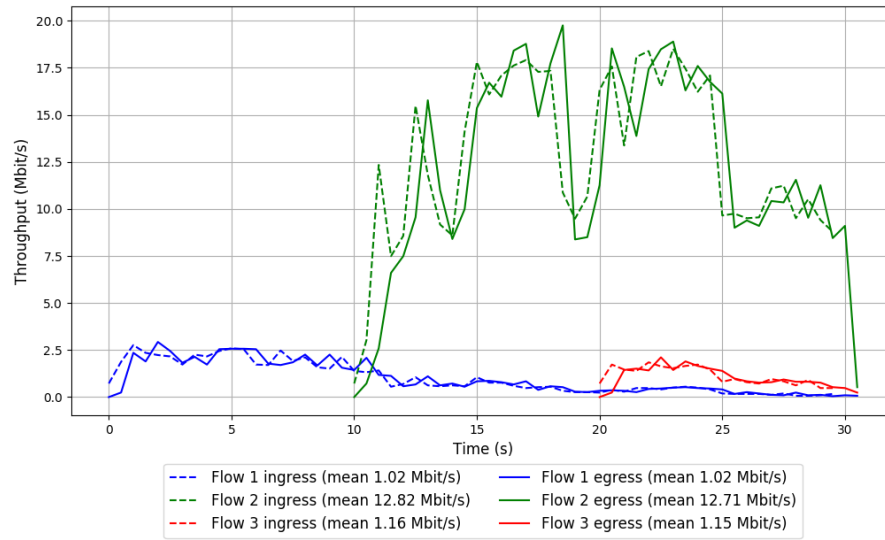
Average throughput: 1.15 Mbit/s

95th percentile per-packet one-way delay: 335.379 ms

Loss rate: 0.74%



# Run 9: Report of TCP Vegas — Data Link

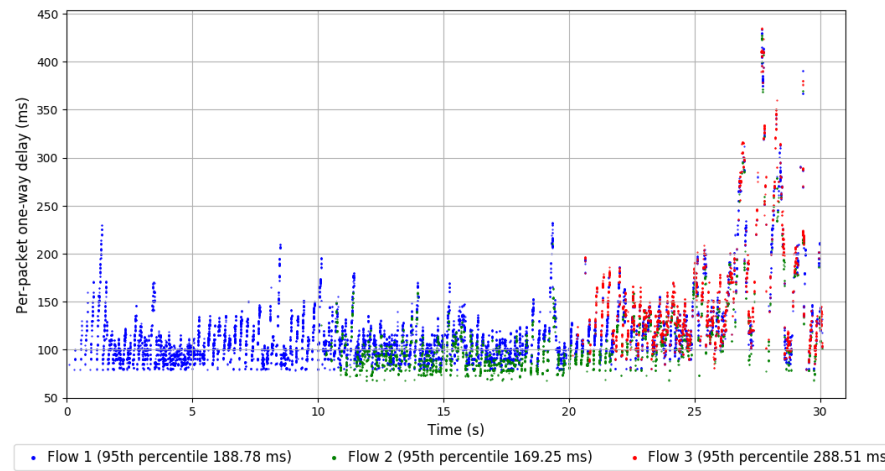
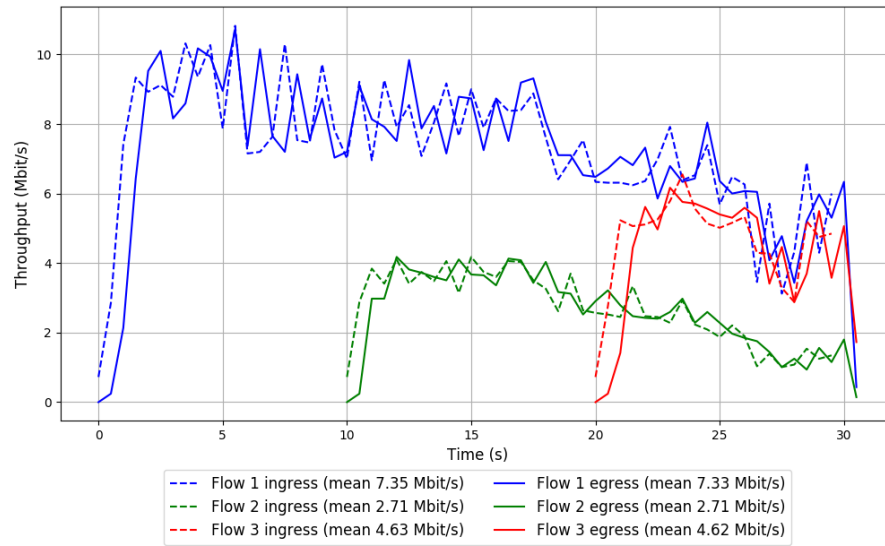


Run 10: Statistics of TCP Vegas

Start at: 2018-05-24 12:31:09  
End at: 2018-05-24 12:31:39  
Local clock offset: 3.194 ms  
Remote clock offset: -4.395 ms

# Below is generated by plot.py at 2018-05-24 12:47:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 10.67 Mbit/s  
95th percentile per-packet one-way delay: 200.364 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 7.33 Mbit/s  
95th percentile per-packet one-way delay: 188.779 ms  
Loss rate: 0.16%  
-- Flow 2:  
Average throughput: 2.71 Mbit/s  
95th percentile per-packet one-way delay: 169.254 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 4.62 Mbit/s  
95th percentile per-packet one-way delay: 288.510 ms  
Loss rate: 0.47%

# Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-05-24 09:20:29

End at: 2018-05-24 09:20:59

Local clock offset: -10.324 ms

Remote clock offset: -1.166 ms

Run 1: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Verus

Start at: 2018-05-24 09:41:28

End at: 2018-05-24 09:41:58

Local clock offset: 2.6 ms

Remote clock offset: -1.637 ms

Run 2: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Verus

Start at: 2018-05-24 10:02:29

End at: 2018-05-24 10:02:59

Local clock offset: 1.491 ms

Remote clock offset: -0.996 ms



Run 3: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of Verus

Start at: 2018-05-24 10:23:30

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

Local clock offset: -2.972 ms

Remote clock offset: -0.203 ms

Run 4: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of Verus

Start at: 2018-05-24 10:44:31

End at: 2018-05-24 10:45:01

Local clock offset: 3.282 ms

Remote clock offset: 0.056 ms

Run 5: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of Verus

Start at: 2018-05-24 11:05:34

End at: 2018-05-24 11:06:04

Local clock offset: 3.596 ms

Remote clock offset: 8.385 ms

Run 6: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of Verus

Start at: 2018-05-24 11:26:36

End at: 2018-05-24 11:27:06

Local clock offset: 3.818 ms

Remote clock offset: 11.85 ms



Run 7: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of Verus

Start at: 2018-05-24 11:47:38

End at: 2018-05-24 11:48:08

Local clock offset: 3.191 ms

Remote clock offset: 14.626 ms

Run 8: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of Verus

Start at: 2018-05-24 12:08:51

End at: 2018-05-24 12:09:21

Local clock offset: 3.499 ms

Remote clock offset: 1.311 ms

Run 9: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of Verus

Start at: 2018-05-24 12:29:51

End at: 2018-05-24 12:30:21

Local clock offset: 3.325 ms

Remote clock offset: -4.085 ms

Run 10: Report of Verus — Data Link

Figure is missing

Figure is missing

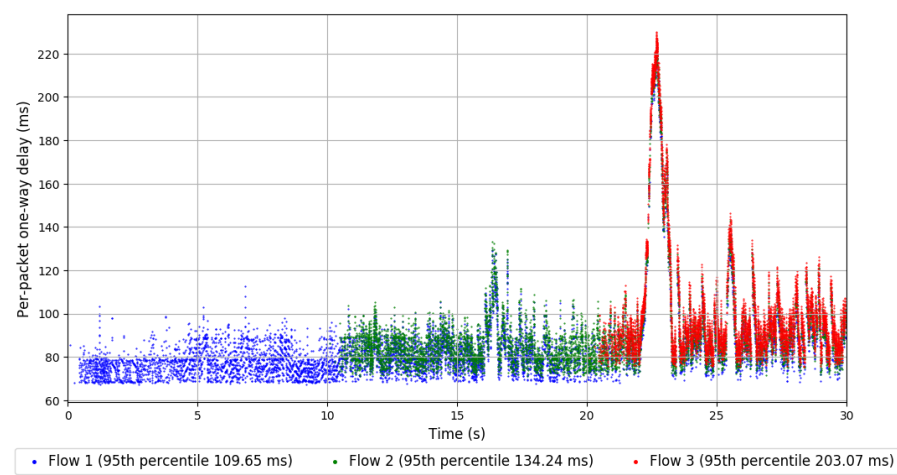
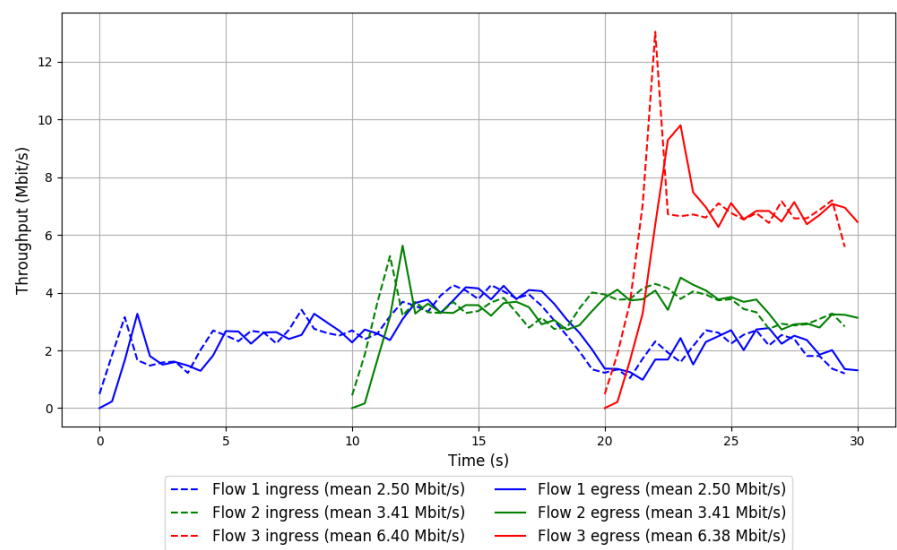
Run 1: Statistics of PCC-Vivace

Start at: 2018-05-24 09:19:10  
End at: 2018-05-24 09:19:40  
Local clock offset: -10.121 ms  
Remote clock offset: -0.657 ms

# Below is generated by plot.py at 2018-05-24 12:47:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 6.87 Mbit/s  
95th percentile per-packet one-way delay: 150.470 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 2.50 Mbit/s  
95th percentile per-packet one-way delay: 109.649 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 3.41 Mbit/s  
95th percentile per-packet one-way delay: 134.244 ms  
Loss rate: 0.17%  
-- Flow 3:  
Average throughput: 6.38 Mbit/s  
95th percentile per-packet one-way delay: 203.070 ms  
Loss rate: 0.42%



Run 1: Report of PCC-Vivace — Data Link

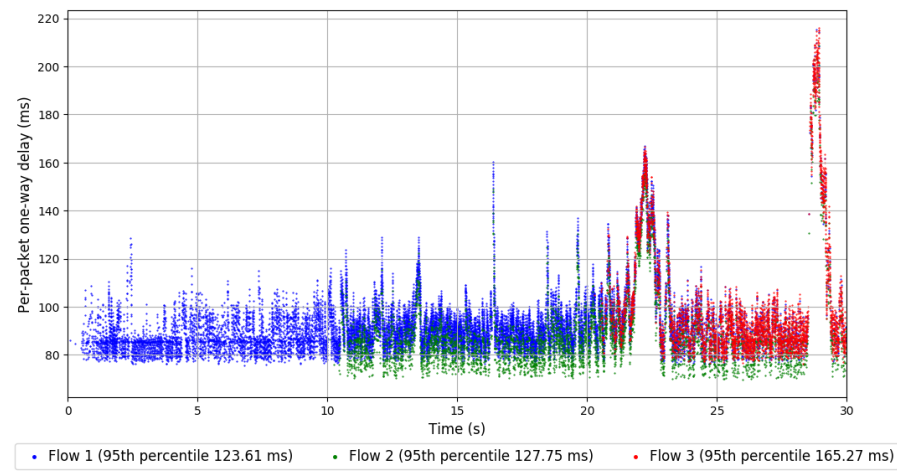
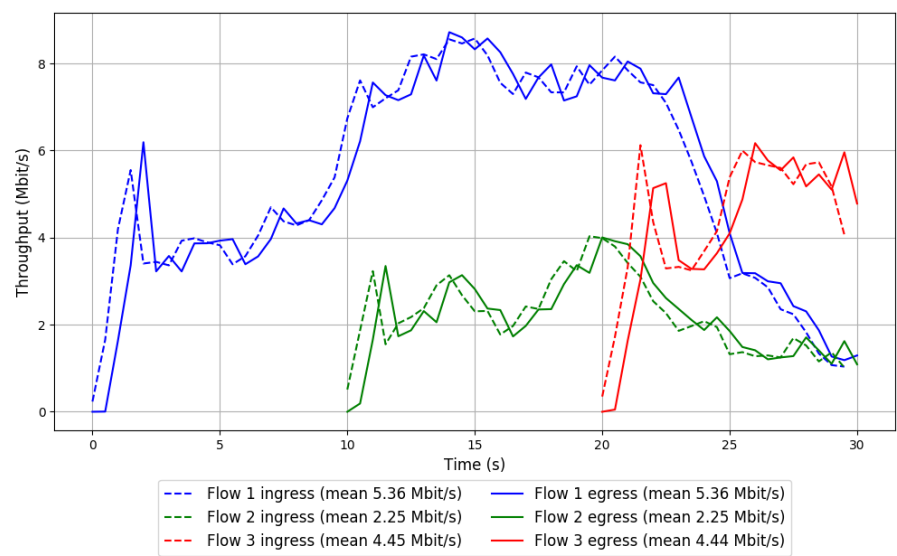


Run 2: Statistics of PCC-Vivace

Start at: 2018-05-24 09:40:09  
End at: 2018-05-24 09:40:39  
Local clock offset: 1.865 ms  
Remote clock offset: -1.846 ms

# Below is generated by plot.py at 2018-05-24 12:47:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.32 Mbit/s  
95th percentile per-packet one-way delay: 135.219 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 5.36 Mbit/s  
95th percentile per-packet one-way delay: 123.609 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 2.25 Mbit/s  
95th percentile per-packet one-way delay: 127.746 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 4.44 Mbit/s  
95th percentile per-packet one-way delay: 165.270 ms  
Loss rate: 0.32%

Run 2: Report of PCC-Vivace — Data Link

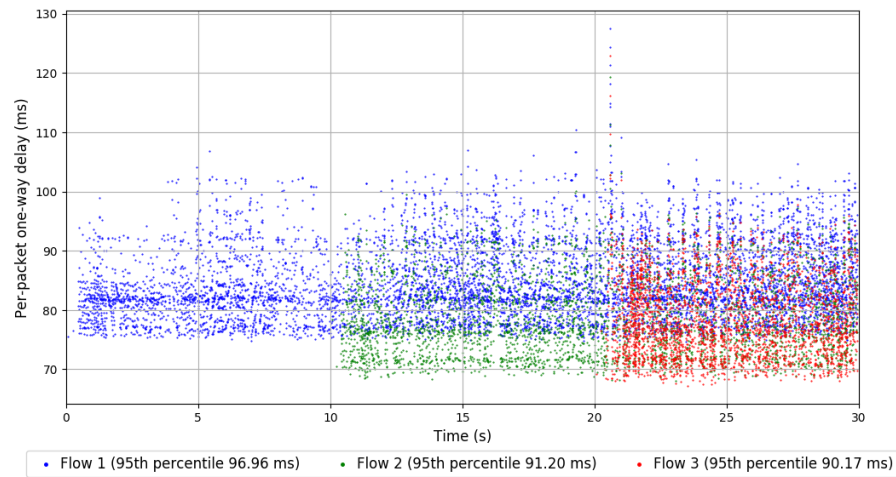
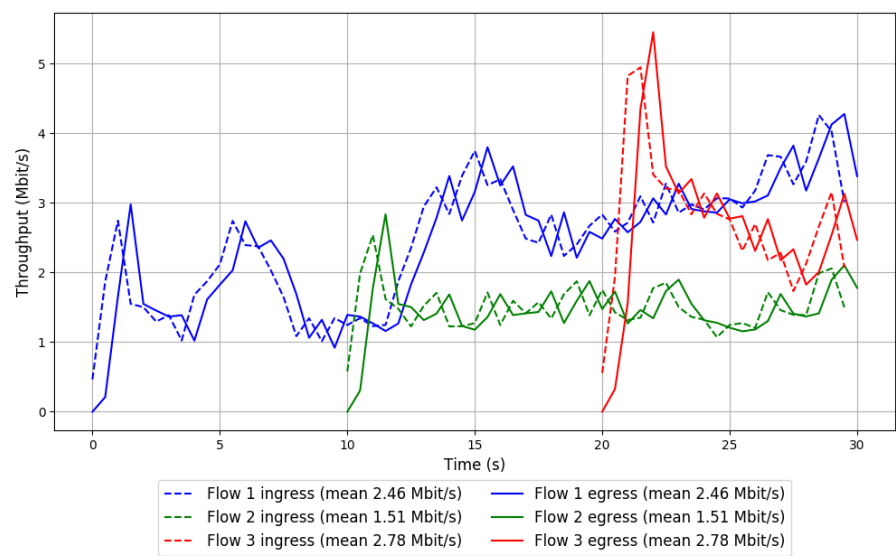


Run 3: Statistics of PCC-Vivace

Start at: 2018-05-24 10:01:10  
End at: 2018-05-24 10:01:40  
Local clock offset: 2.092 ms  
Remote clock offset: -0.995 ms

# Below is generated by plot.py at 2018-05-24 12:47:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.38 Mbit/s  
95th percentile per-packet one-way delay: 94.808 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 2.46 Mbit/s  
95th percentile per-packet one-way delay: 96.962 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 1.51 Mbit/s  
95th percentile per-packet one-way delay: 91.198 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 2.78 Mbit/s  
95th percentile per-packet one-way delay: 90.174 ms  
Loss rate: 0.17%

Run 3: Report of PCC-Vivace — Data Link

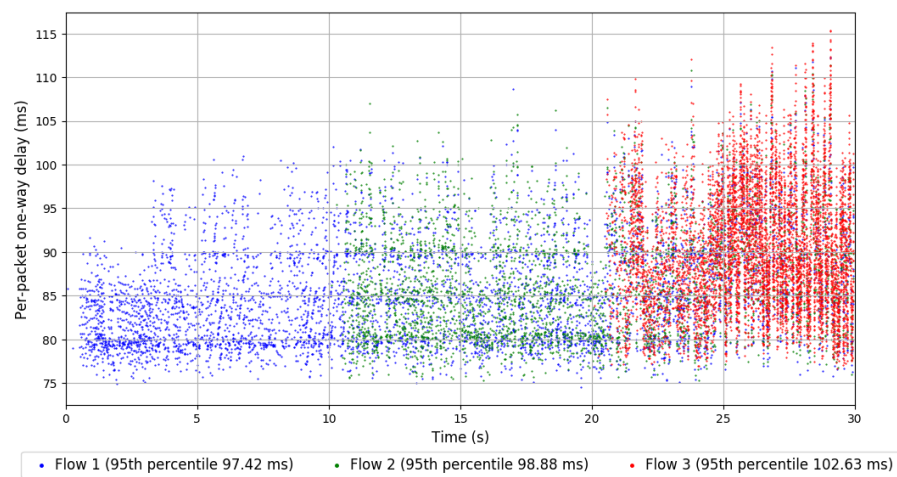
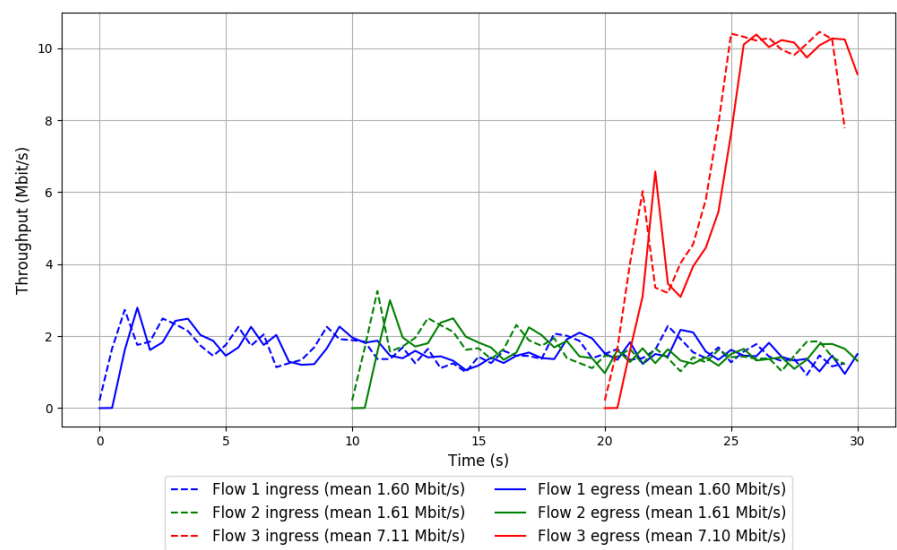


Run 4: Statistics of PCC-Vivace

Start at: 2018-05-24 10:22:12  
End at: 2018-05-24 10:22:42  
Local clock offset: -2.786 ms  
Remote clock offset: -0.217 ms

# Below is generated by plot.py at 2018-05-24 12:47:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 5.01 Mbit/s  
95th percentile per-packet one-way delay: 100.350 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 1.60 Mbit/s  
95th percentile per-packet one-way delay: 97.424 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 1.61 Mbit/s  
95th percentile per-packet one-way delay: 98.878 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 7.10 Mbit/s  
95th percentile per-packet one-way delay: 102.633 ms  
Loss rate: 0.36%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-05-24 10:43:13

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

Local clock offset: 3.132 ms

Remote clock offset: 0.046 ms

# Below is generated by plot.py at 2018-05-24 12:47:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.46 Mbit/s

95th percentile per-packet one-way delay: 99.157 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 1.67 Mbit/s

95th percentile per-packet one-way delay: 97.761 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 100.036 ms

Loss rate: 0.09%

-- Flow 3:

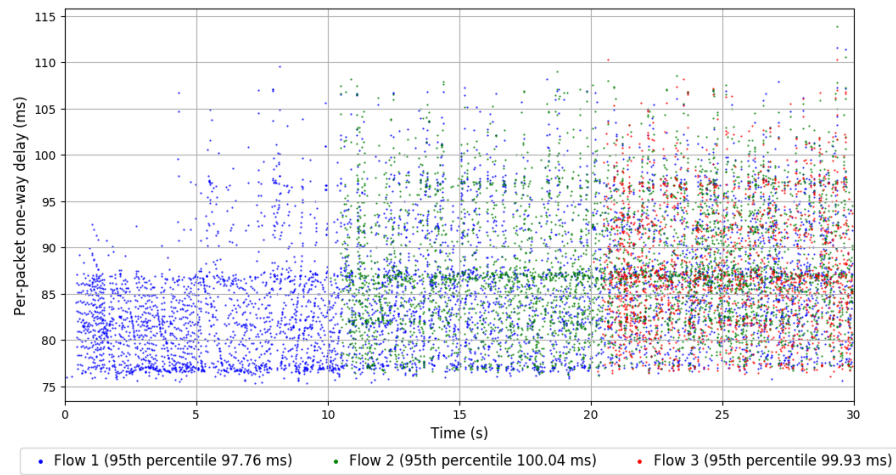
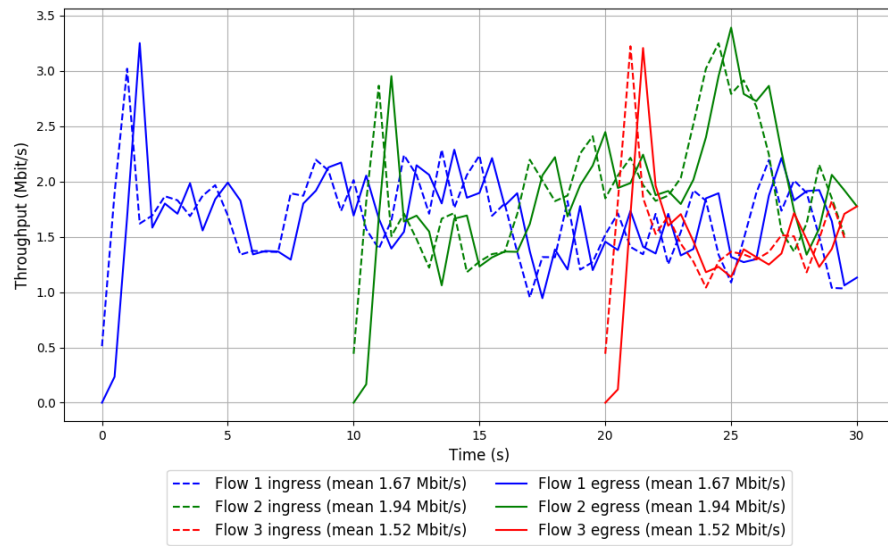
Average throughput: 1.52 Mbit/s

95th percentile per-packet one-way delay: 99.926 ms

Loss rate: 0.15%



## Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-05-24 11:04:15

End at: 2018-05-24 11:04:45

Local clock offset: 3.537 ms

Remote clock offset: 8.076 ms

# Below is generated by plot.py at 2018-05-24 12:47:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 101.954 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.34 Mbit/s

95th percentile per-packet one-way delay: 94.882 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.71 Mbit/s

95th percentile per-packet one-way delay: 101.645 ms

Loss rate: 0.00%

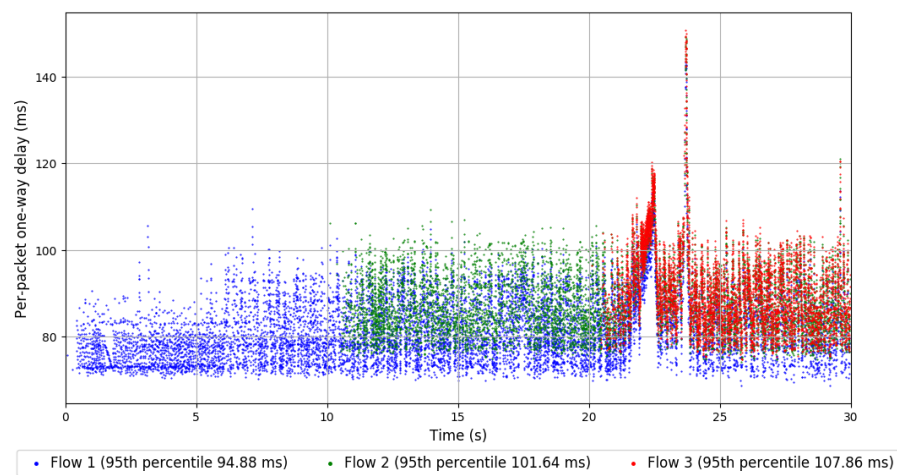
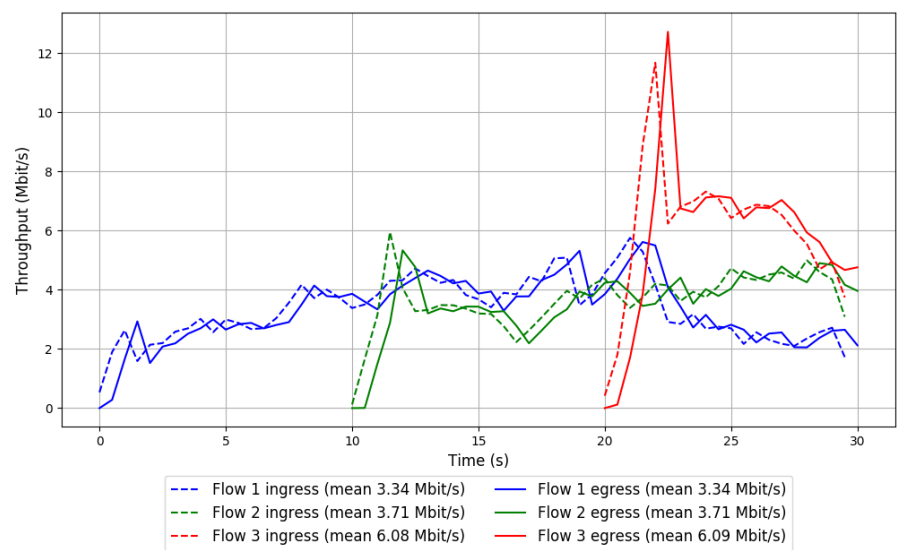
-- Flow 3:

Average throughput: 6.09 Mbit/s

95th percentile per-packet one-way delay: 107.861 ms

Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link

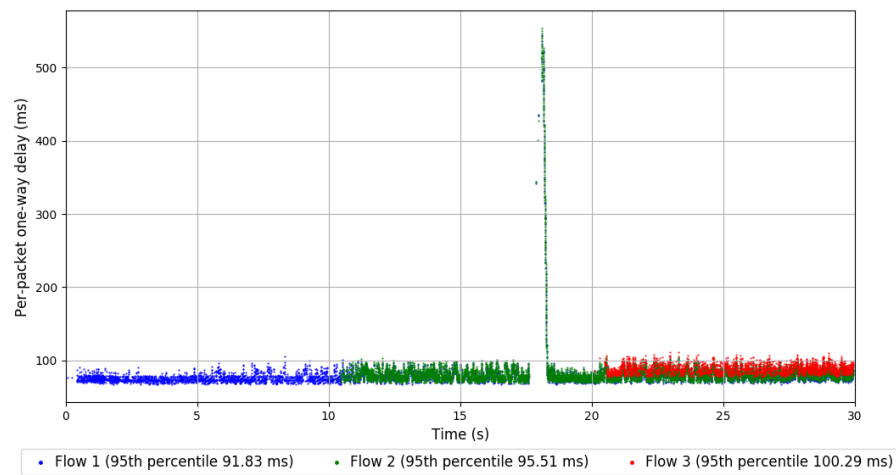
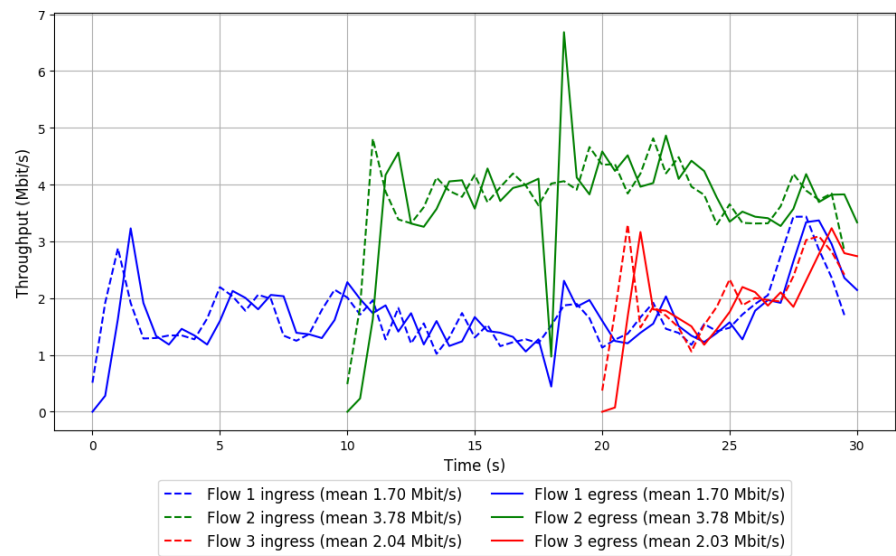


Run 7: Statistics of PCC-Vivace

Start at: 2018-05-24 11:25:17  
End at: 2018-05-24 11:25:47  
Local clock offset: 3.744 ms  
Remote clock offset: 11.563 ms

# Below is generated by plot.py at 2018-05-24 12:47:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.88 Mbit/s  
95th percentile per-packet one-way delay: 96.127 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 1.70 Mbit/s  
95th percentile per-packet one-way delay: 91.832 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 3.78 Mbit/s  
95th percentile per-packet one-way delay: 95.511 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 2.03 Mbit/s  
95th percentile per-packet one-way delay: 100.288 ms  
Loss rate: 0.52%

Run 7: Report of PCC-Vivace — Data Link

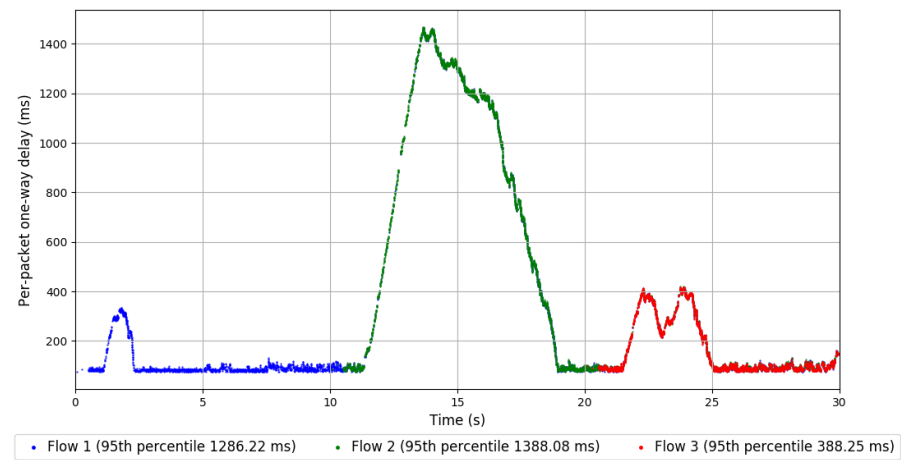
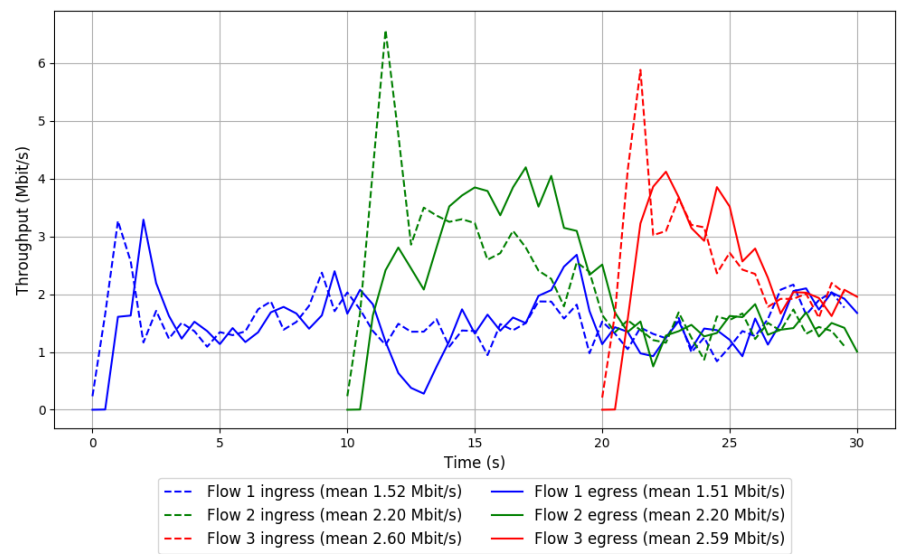


Run 8: Statistics of PCC-Vivace

Start at: 2018-05-24 11:46:19  
End at: 2018-05-24 11:46:49  
Local clock offset: 3.086 ms  
Remote clock offset: 14.417 ms

# Below is generated by plot.py at 2018-05-24 12:47:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.82 Mbit/s  
95th percentile per-packet one-way delay: 1320.101 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 1.51 Mbit/s  
95th percentile per-packet one-way delay: 1286.221 ms  
Loss rate: 0.46%  
-- Flow 2:  
Average throughput: 2.20 Mbit/s  
95th percentile per-packet one-way delay: 1388.082 ms  
Loss rate: 0.32%  
-- Flow 3:  
Average throughput: 2.59 Mbit/s  
95th percentile per-packet one-way delay: 388.247 ms  
Loss rate: 0.91%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-05-24 12:07:32

End at: 2018-05-24 12:08:02

Local clock offset: 3.396 ms

Remote clock offset: 1.867 ms

# Below is generated by plot.py at 2018-05-24 12:47:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.43 Mbit/s

95th percentile per-packet one-way delay: 765.309 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 842.517 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 1.80 Mbit/s

95th percentile per-packet one-way delay: 613.967 ms

Loss rate: 0.06%

-- Flow 3:

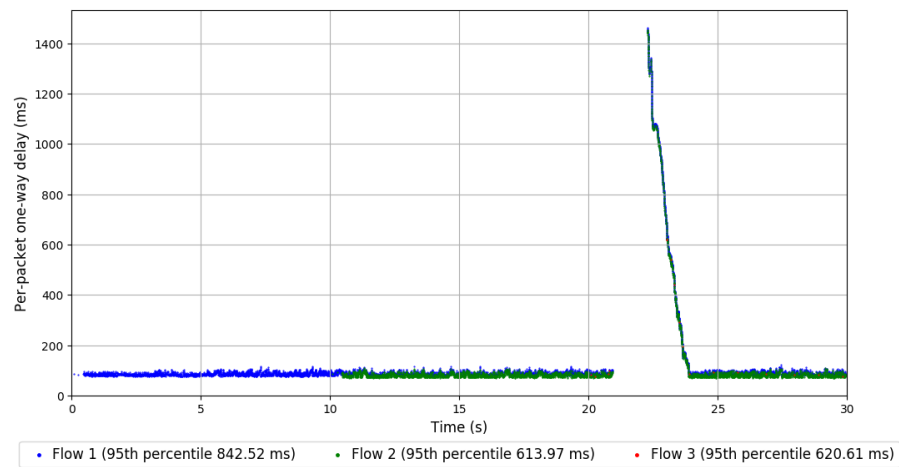
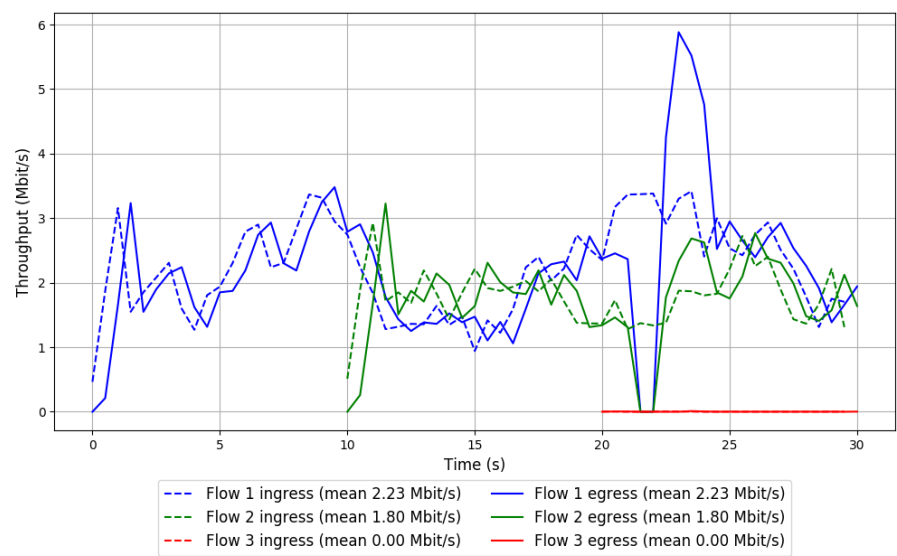
Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 620.608 ms

Loss rate: 0.00%



Run 9: Report of PCC-Vivace — Data Link

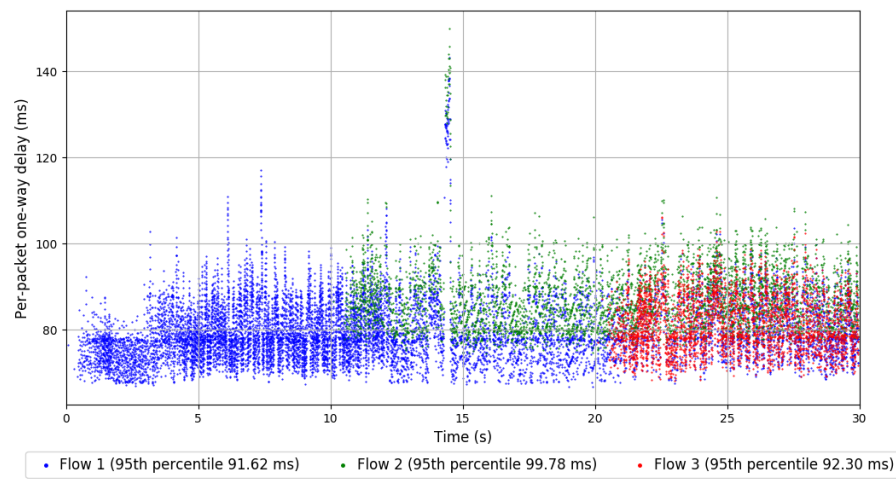
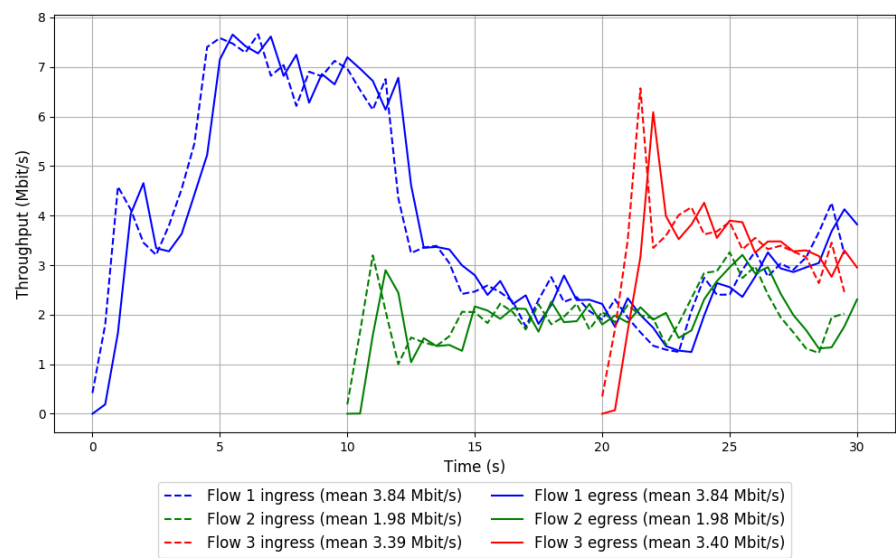


Run 10: Statistics of PCC-Vivace

Start at: 2018-05-24 12:28:32  
End at: 2018-05-24 12:29:02  
Local clock offset: 3.629 ms  
Remote clock offset: -3.887 ms

# Below is generated by plot.py at 2018-05-24 12:47:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 6.28 Mbit/s  
95th percentile per-packet one-way delay: 95.044 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 3.84 Mbit/s  
95th percentile per-packet one-way delay: 91.621 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 1.98 Mbit/s  
95th percentile per-packet one-way delay: 99.784 ms  
Loss rate: 0.15%  
-- Flow 3:  
Average throughput: 3.40 Mbit/s  
95th percentile per-packet one-way delay: 92.303 ms  
Loss rate: 0.13%

Run 10: Report of PCC-Vivace — Data Link

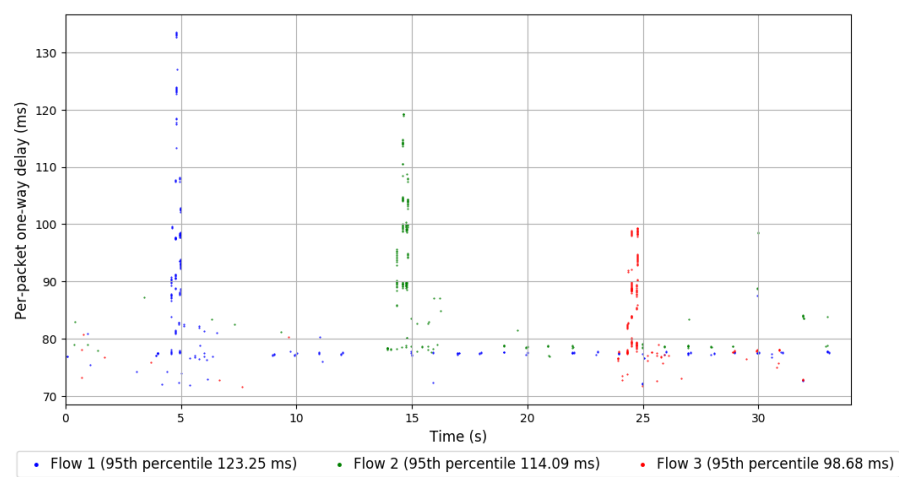
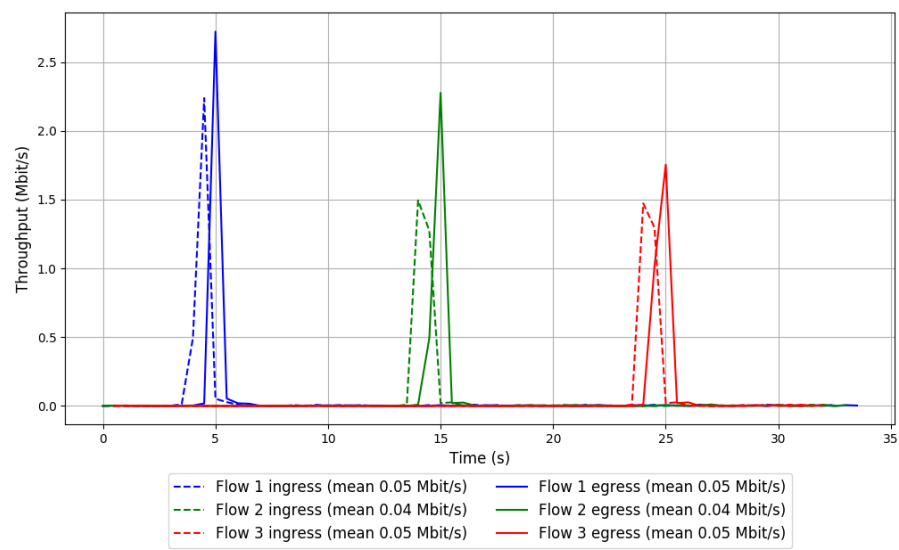


Run 1: Statistics of WebRTC media

Start at: 2018-05-24 09:15:15  
End at: 2018-05-24 09:15:45  
Local clock offset: -9.725 ms  
Remote clock offset: -0.168 ms

# Below is generated by plot.py at 2018-05-24 12:47:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 113.699 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 123.255 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.04 Mbit/s  
95th percentile per-packet one-way delay: 114.094 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 98.676 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

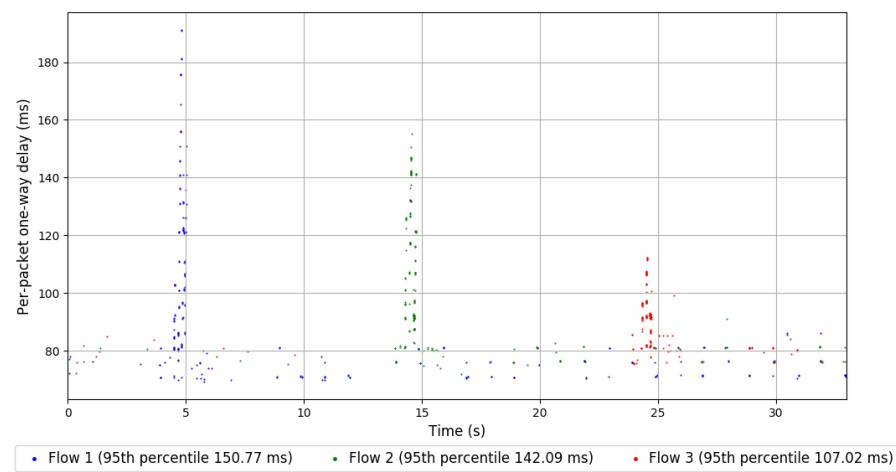
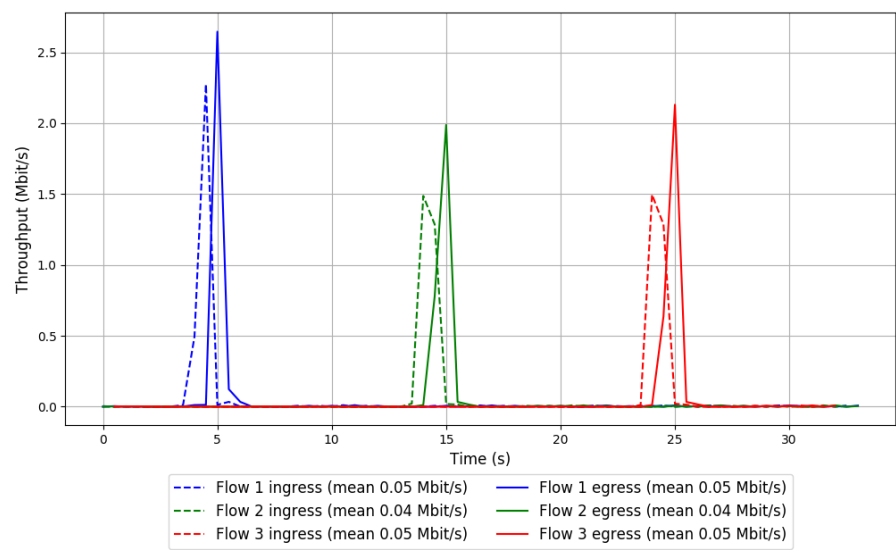


Run 2: Statistics of WebRTC media

Start at: 2018-05-24 09:36:14  
End at: 2018-05-24 09:36:44  
Local clock offset: 0.036 ms  
Remote clock offset: -2.082 ms

# Below is generated by plot.py at 2018-05-24 12:47:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 141.259 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 150.768 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.04 Mbit/s  
95th percentile per-packet one-way delay: 142.092 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 107.016 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



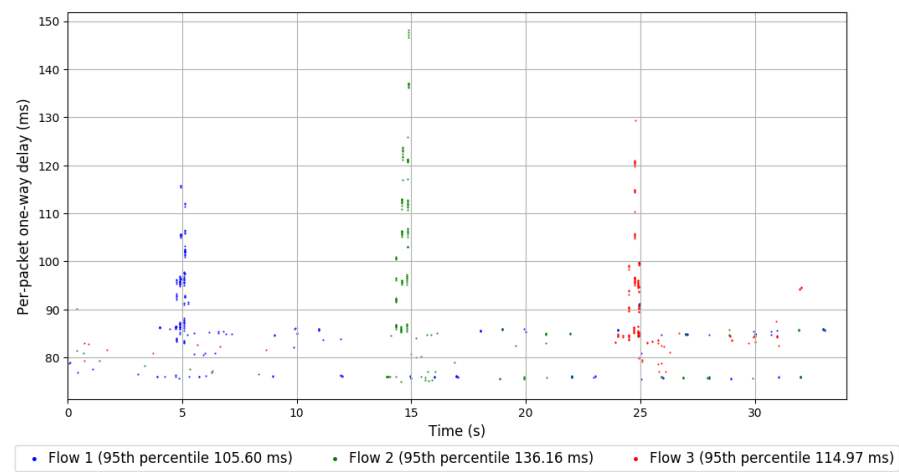
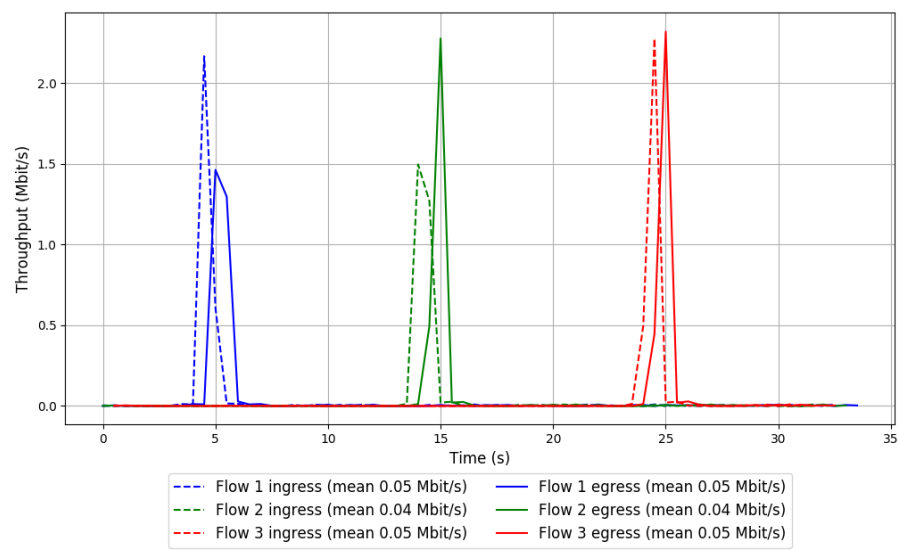
Run 3: Statistics of WebRTC media

Start at: 2018-05-24 09:57:16  
End at: 2018-05-24 09:57:46  
Local clock offset: 5.238 ms  
Remote clock offset: -1.058 ms

# Below is generated by plot.py at 2018-05-24 12:47:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 120.638 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 105.603 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.04 Mbit/s  
95th percentile per-packet one-way delay: 136.160 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 114.970 ms  
Loss rate: 0.00%



Run 3: Report of WebRTC media — Data Link

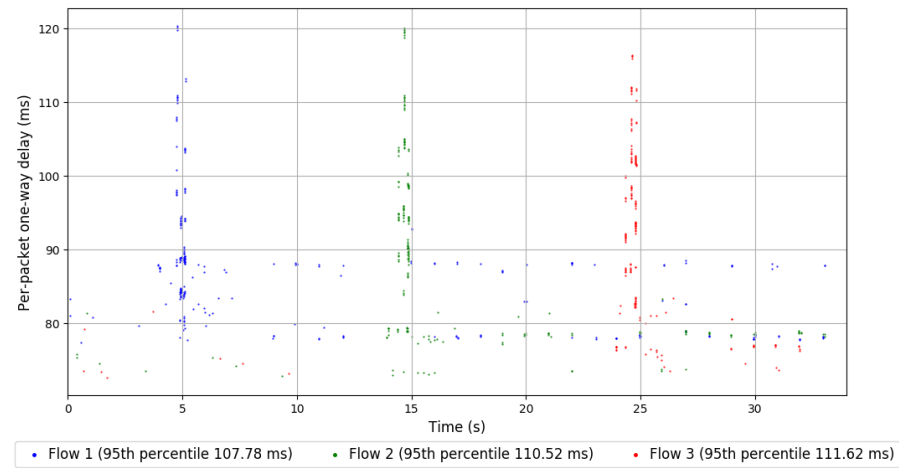
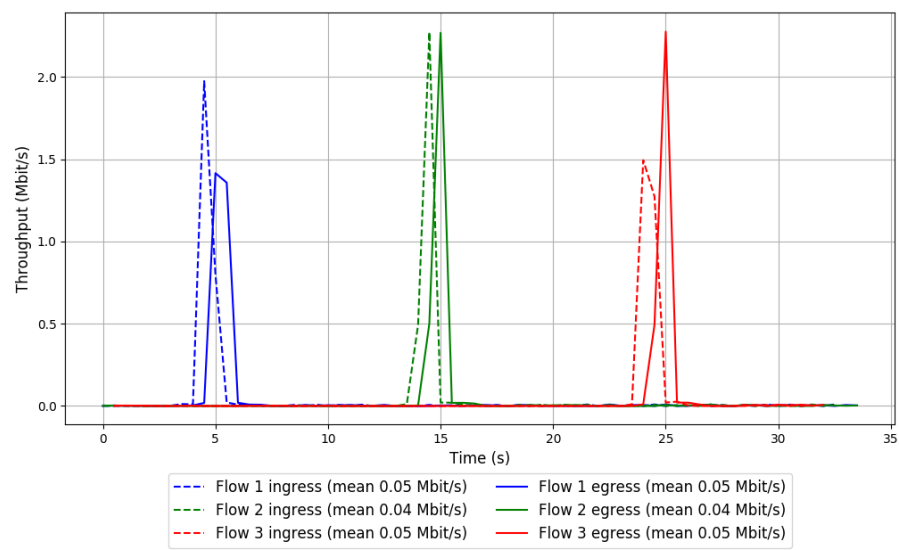


Run 4: Statistics of WebRTC media

Start at: 2018-05-24 10:18:16  
End at: 2018-05-24 10:18:46  
Local clock offset: -2.525 ms  
Remote clock offset: -0.389 ms

# Below is generated by plot.py at 2018-05-24 12:47:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 110.423 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 107.775 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.04 Mbit/s  
95th percentile per-packet one-way delay: 110.515 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 111.622 ms  
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-05-24 10:39:17

End at: 2018-05-24 10:39:47

Local clock offset: 2.223 ms

Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2018-05-24 12:47:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 109.471 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 109.010 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 108.377 ms

Loss rate: 0.00%

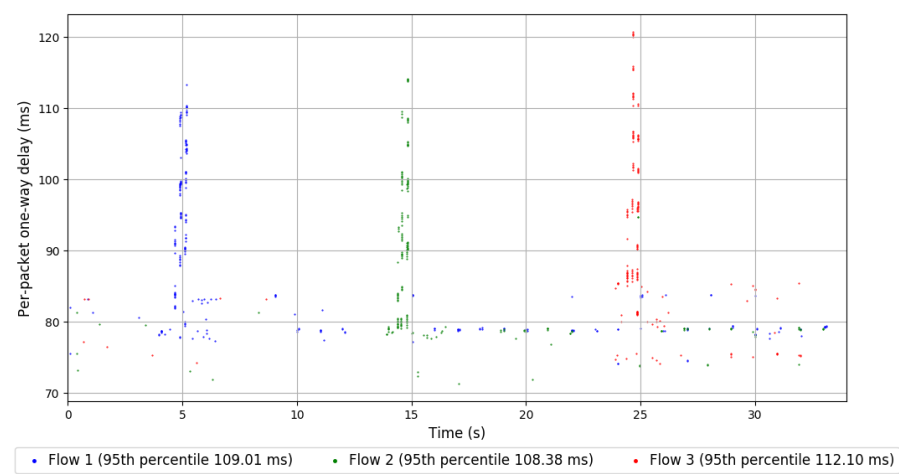
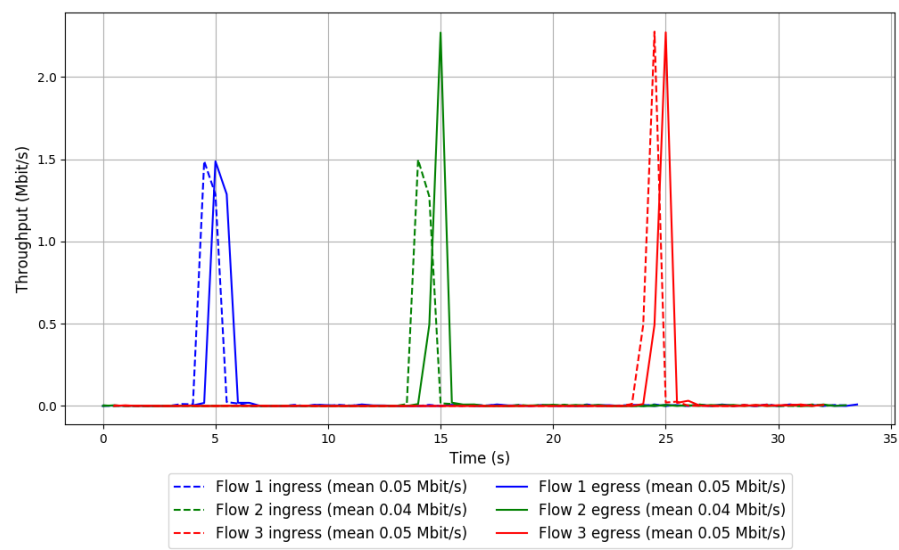
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 112.102 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-05-24 11:00:20

End at: 2018-05-24 11:00:50

Local clock offset: 3.877 ms

Remote clock offset: 7.08 ms

# Below is generated by plot.py at 2018-05-24 12:47:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 145.569 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 161.196 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 102.662 ms

Loss rate: 0.00%

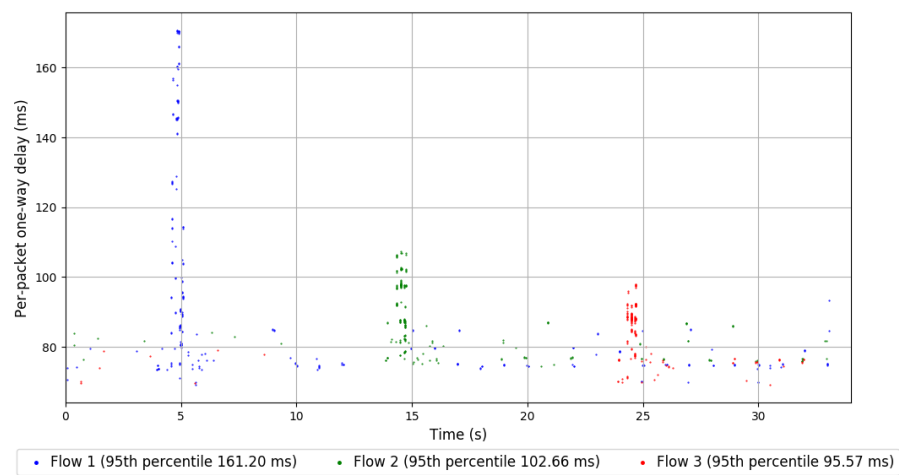
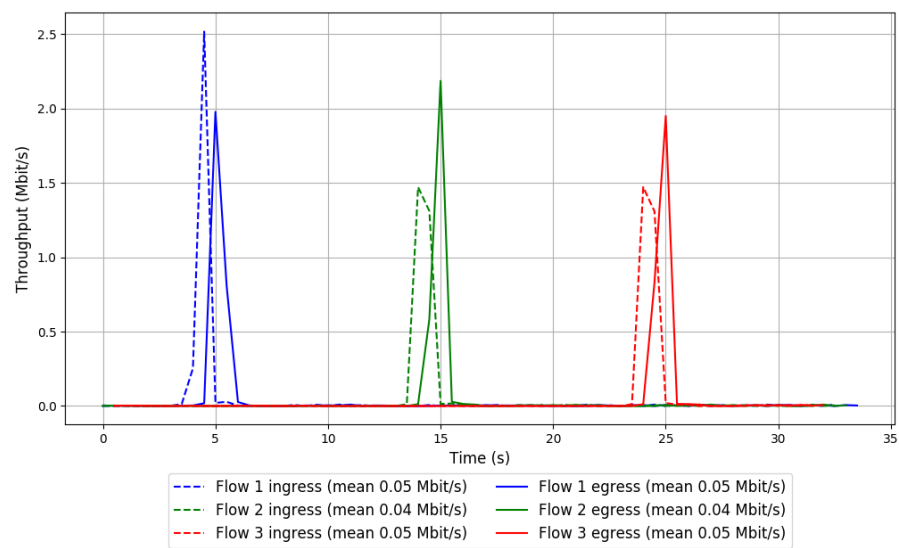
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 95.567 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



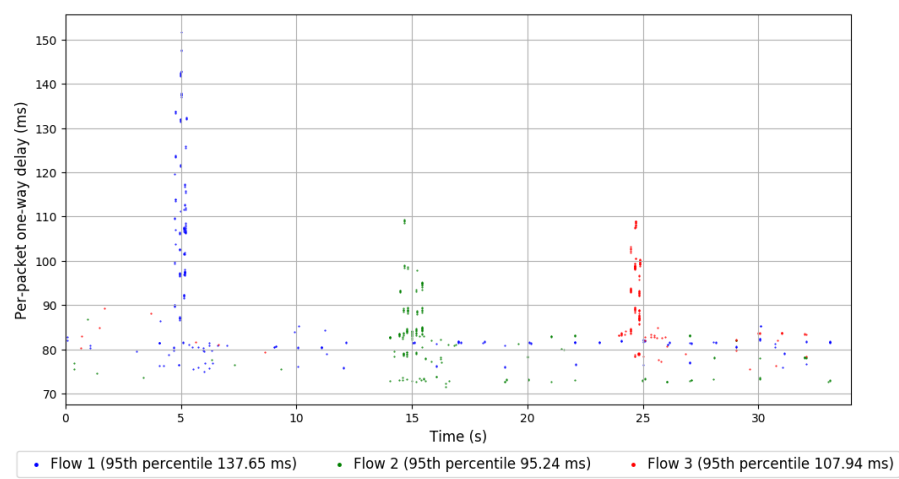
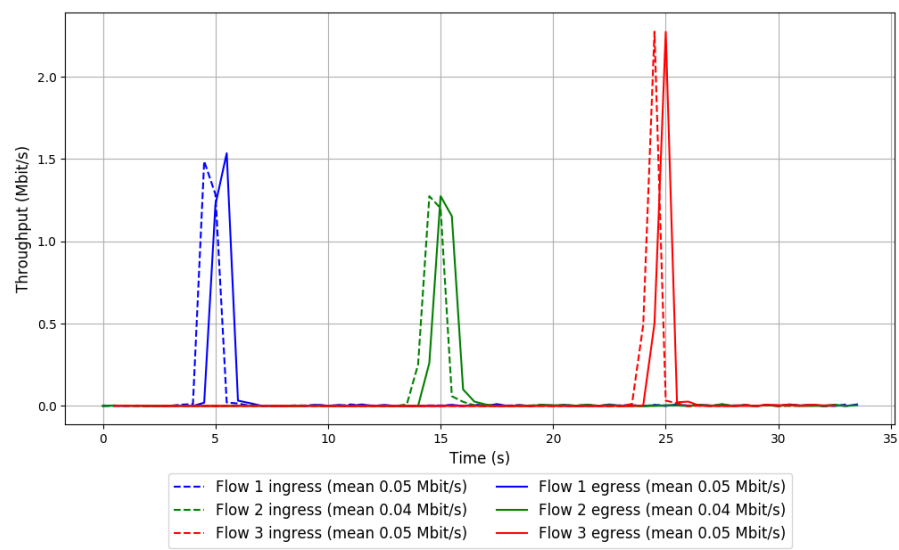
Run 7: Statistics of WebRTC media

Start at: 2018-05-24 11:21:22  
End at: 2018-05-24 11:21:52  
Local clock offset: 3.594 ms  
Remote clock offset: 11.006 ms

# Below is generated by plot.py at 2018-05-24 12:47:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 123.446 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 137.654 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.04 Mbit/s  
95th percentile per-packet one-way delay: 95.243 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 107.939 ms  
Loss rate: 0.00%



Run 7: Report of WebRTC media — Data Link

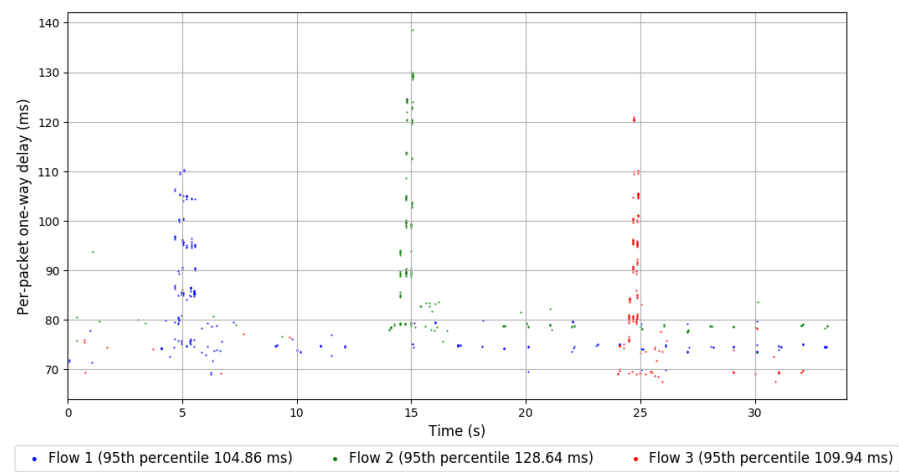
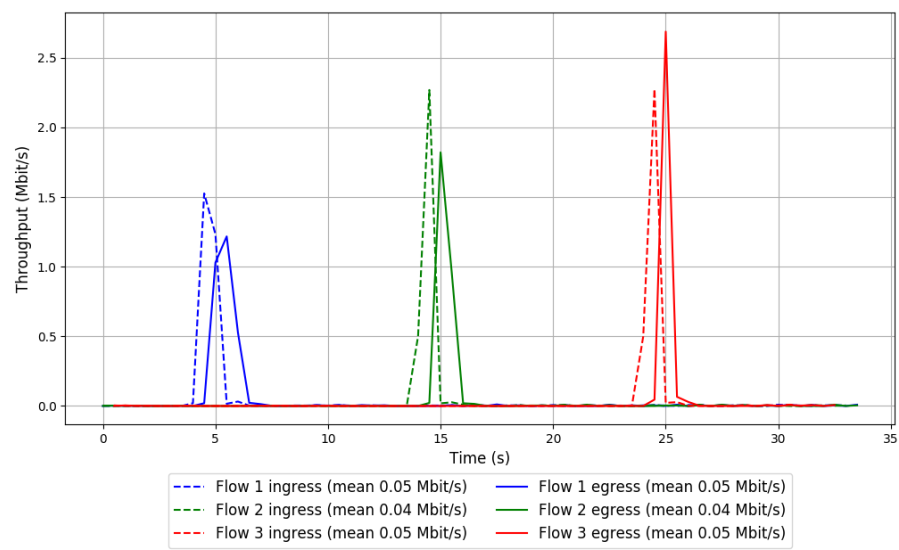


Run 8: Statistics of WebRTC media

Start at: 2018-05-24 11:42:24  
End at: 2018-05-24 11:42:54  
Local clock offset: 3.243 ms  
Remote clock offset: 13.769 ms

# Below is generated by plot.py at 2018-05-24 12:47:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 120.269 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 104.865 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.04 Mbit/s  
95th percentile per-packet one-way delay: 128.637 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 109.938 ms  
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-05-24 12:03:36

End at: 2018-05-24 12:04:06

Local clock offset: 3.419 ms

Remote clock offset: 4.094 ms

# Below is generated by plot.py at 2018-05-24 12:47:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 132.178 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 146.344 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 107.573 ms

Loss rate: 0.00%

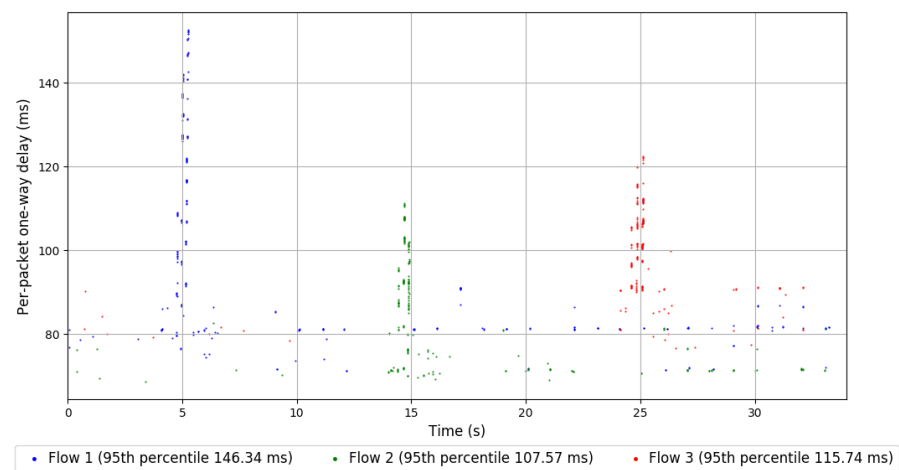
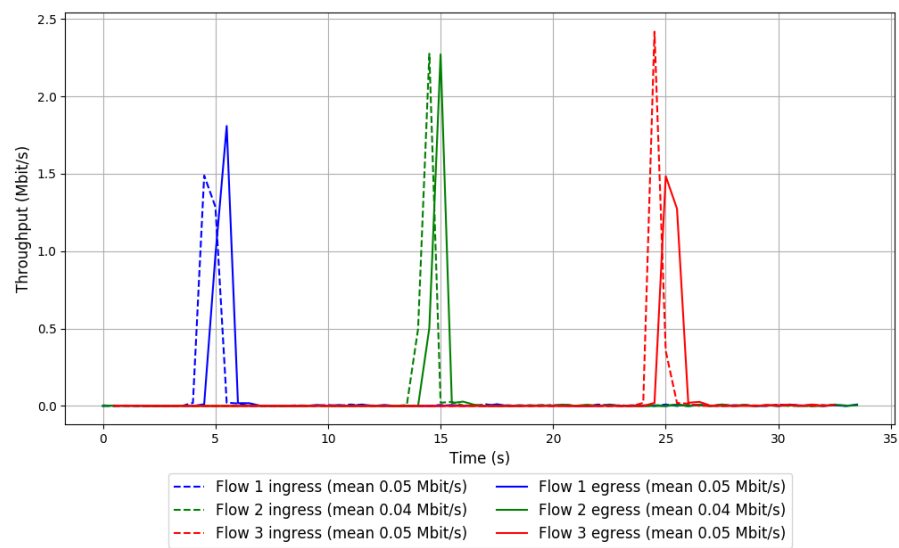
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 115.738 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-24 12:24:37  
End at: 2018-05-24 12:25:07  
Local clock offset: 3.737 ms  
Remote clock offset: -3.188 ms

# Below is generated by plot.py at 2018-05-24 12:47:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 121.786 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 122.278 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.04 Mbit/s  
95th percentile per-packet one-way delay: 123.738 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 113.428 ms  
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

