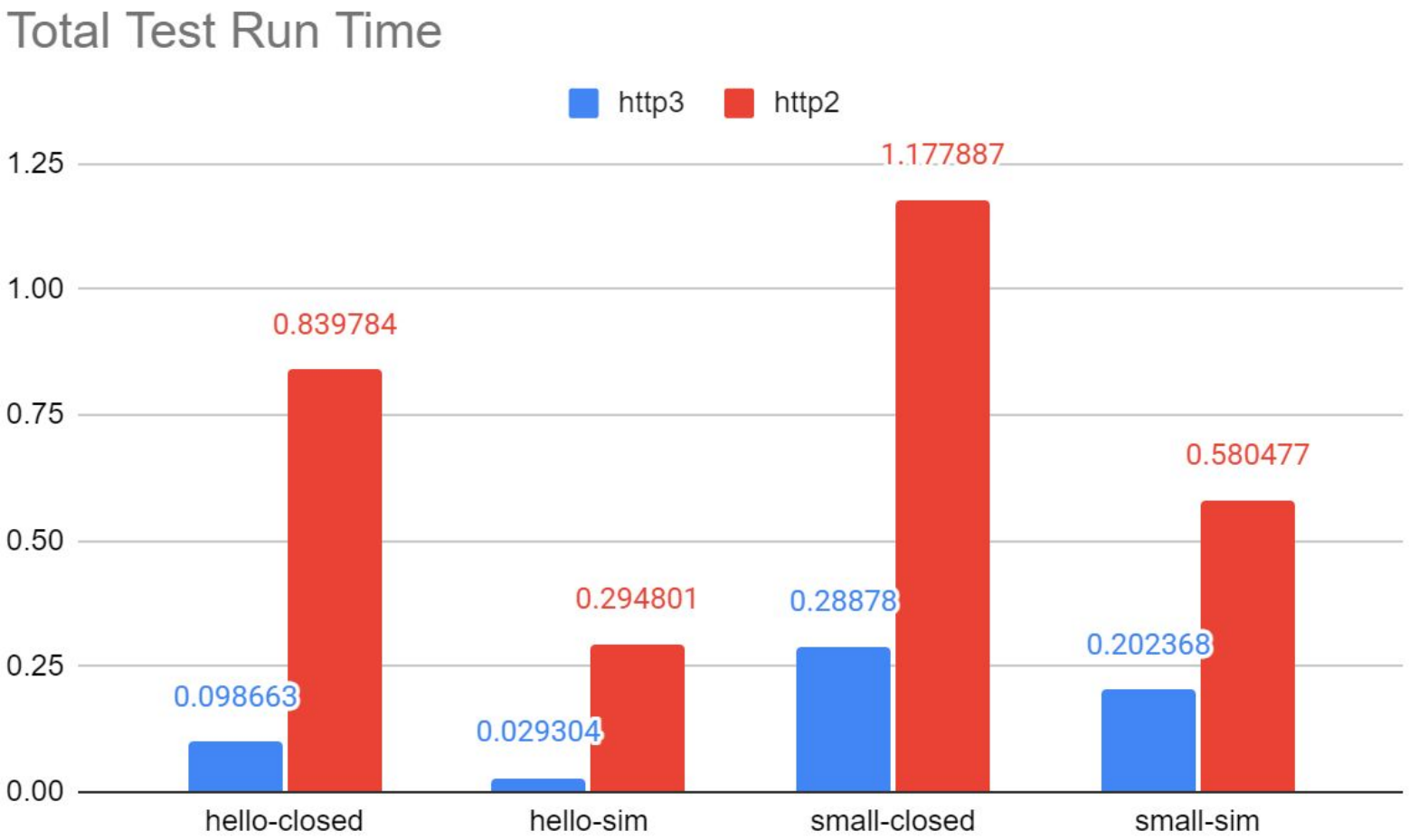
Total Test Run Time
http3
http2
1.25
1.00
0.75
0.50
0.25
0.00
0.098663
0.839784
0.029304
0.294801
0.28878
1.177887
0.202368
0.580477
hello-closed
hello-sim
small-closed
small-sim

Figure 1

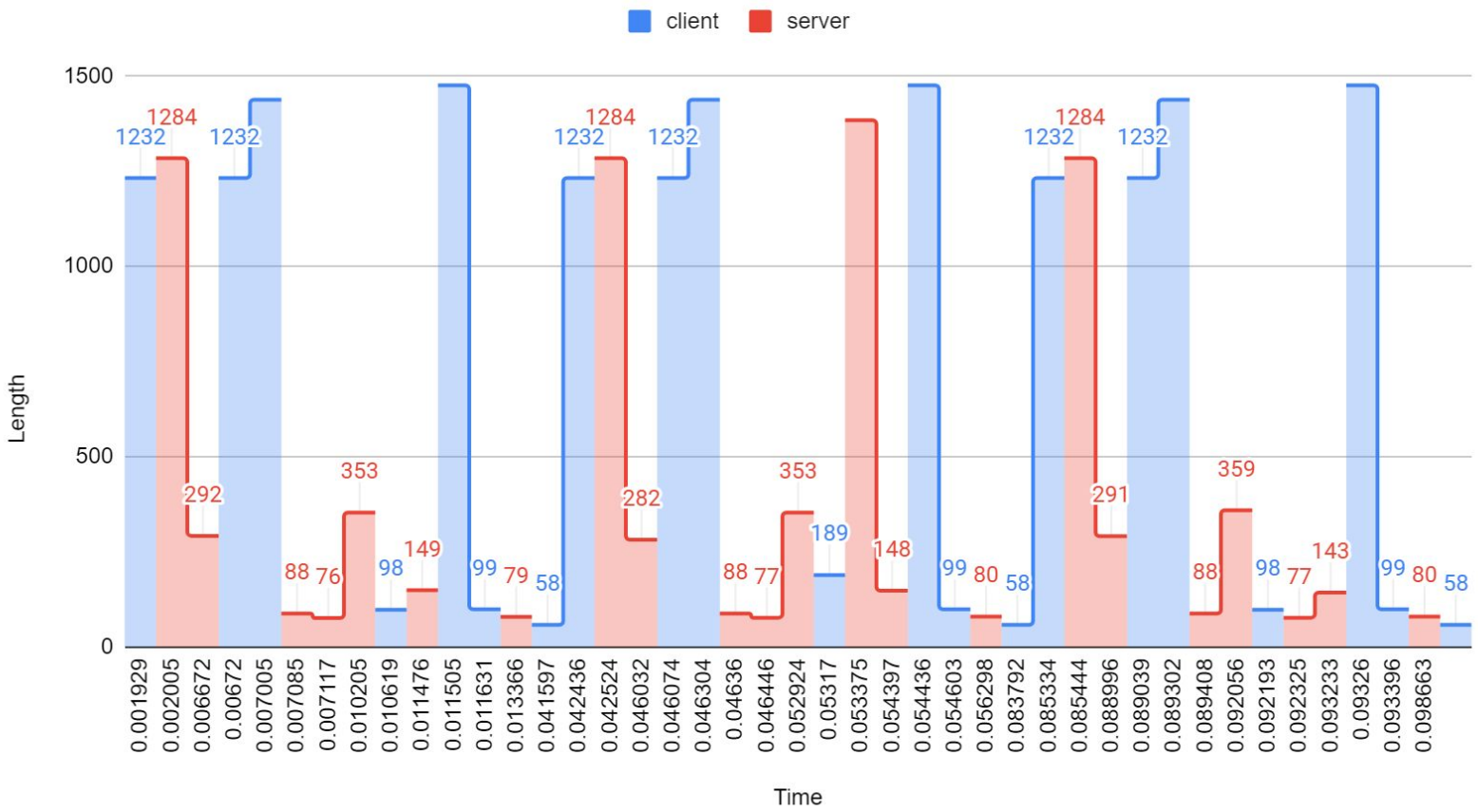
hello-closed Packet Length Over Time
client
server
Length
1500
1000
500
0
Time
0.001929
0.002005
0.006672
0.00672
0.007005
0.007085
0.007117
0.010205
0.010619
0.011476
0.011505
0.011631
0.013366
0.041597
0.042436
0.042524
0.046032
0.046074
0.046304
0.04636
0.046446
0.052924
0.05317
0.053375
0.054397
0.054436
0.054603
0.056298
0.083792
0.085334
0.085444
0.088996
0.089039
0.089302
0.089408
0.092056
0.092193
0.092325
0.093233
0.09326
0.093396
0.098663
1232
1284
292
1232
1232
88
76
353
98
149
99
79
58
1232
1284
282
1232
88
77
353
189
148
99
80
58
1232
1284
291
1232
88
359
98
77
143
99
80
58

Figure 2

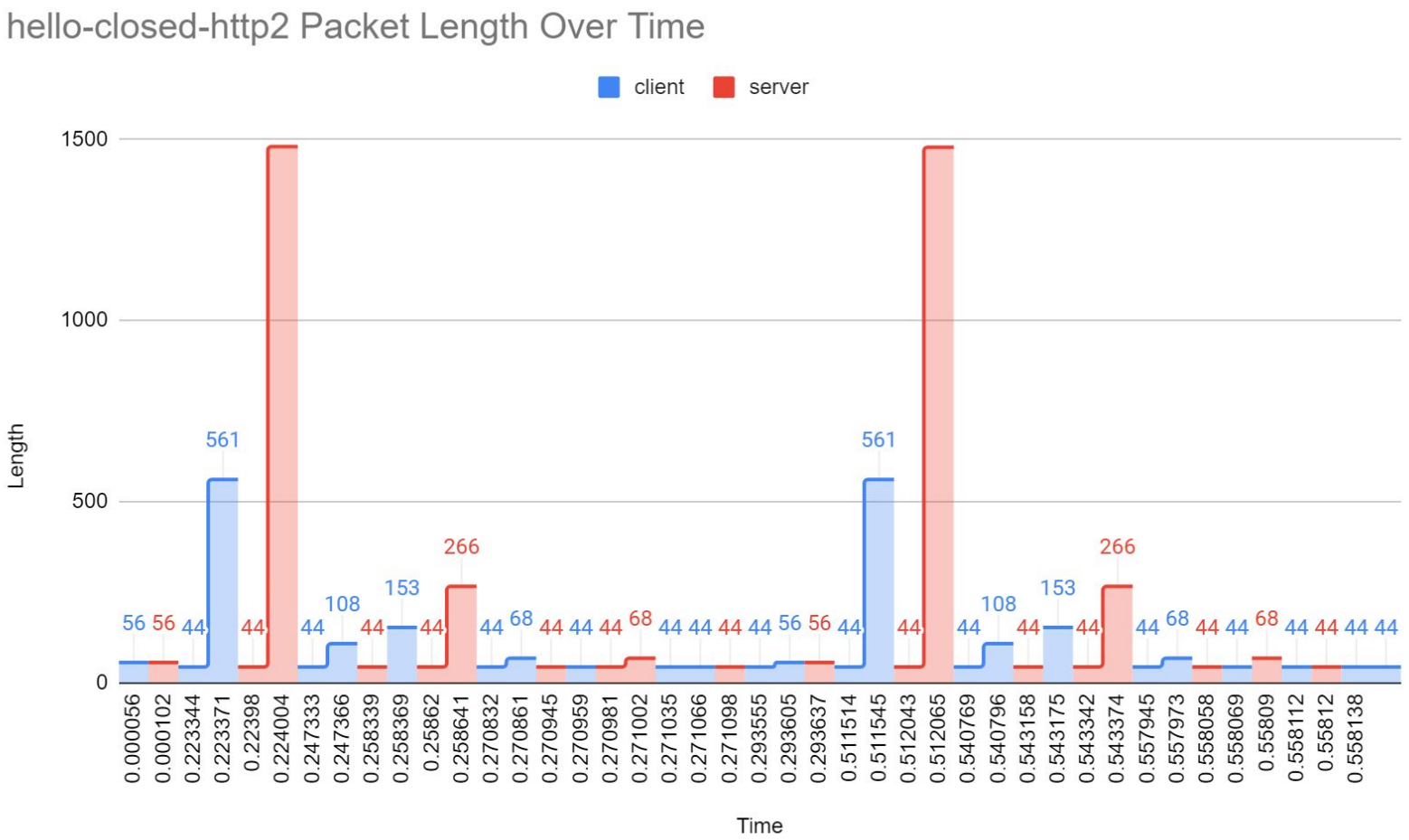
hello-closed-http2 Packet Length Over Time
client
server
Length
1500
1000
500
0
Time
0.000056
0.000102
0.223344
0.223371
0.22398
0.224004
0.247333
0.247366
0.258339
0.258369
0.25862
0.258641
0.270832
0.270861
0.270945
0.270959
0.270981
0.271002
0.271035
0.271066
0.271098
0.293555
0.293605
0.293637
0.511514
0.511545
0.512043
0.512065
0.540769
0.540796
0.543158
0.543175
0.543342
0.543374
0.557945
0.557973
0.558058
0.558069
0.55809
0.558112
0.55812
0.558138

Figure 3

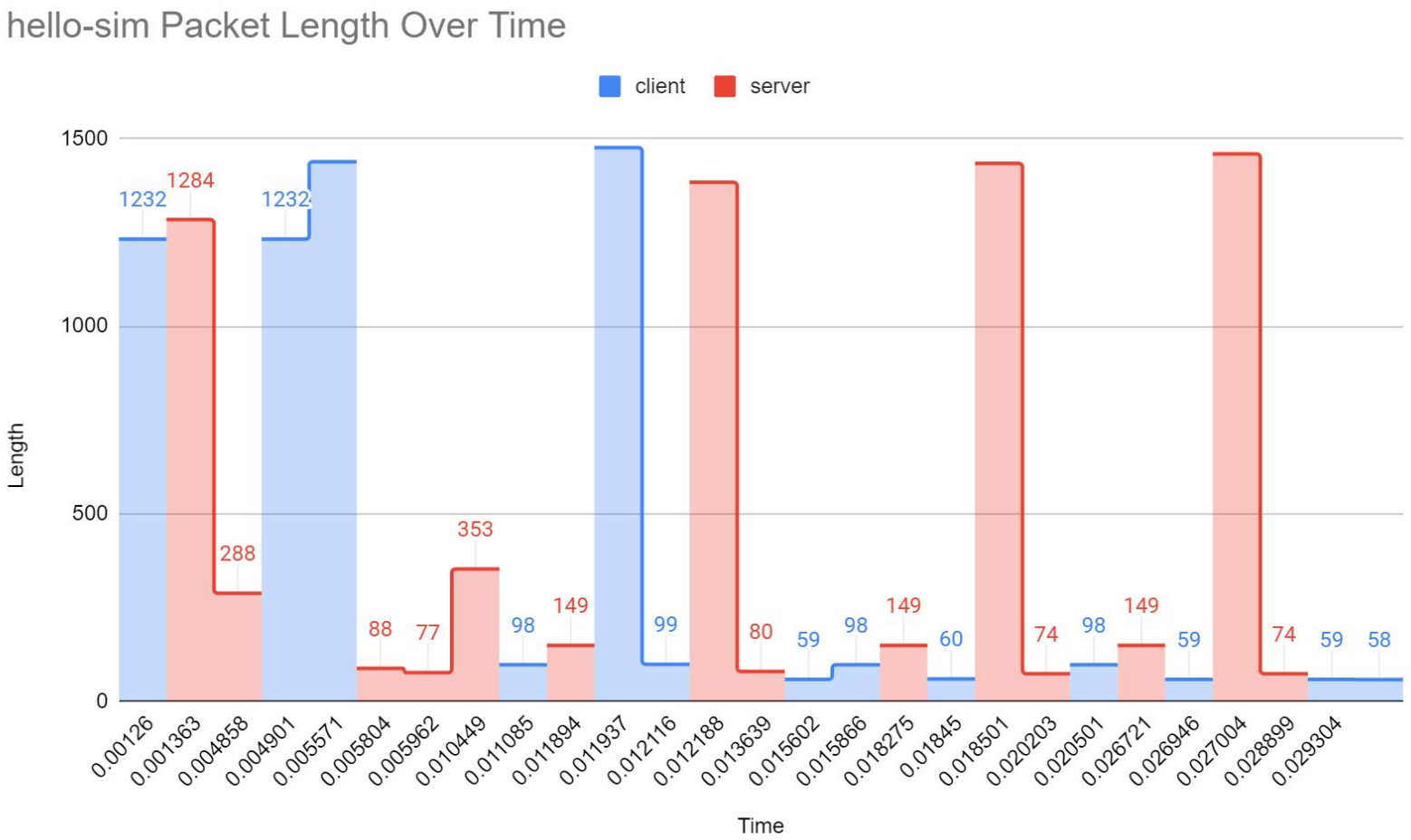
hello-sim Packet Length Over Time
client
server
Length
Time
1500
1000
500
0
1232
1284
288
1232
88
77
353
98
149
99
80
59
98
149
60
74
98
149
59
74
59
58
0.00126
0.001363
0.004858
0.004901
0.005571
0.005804
0.005962
0.010449
0.011085
0.011894
0.011937
0.012116
0.012188
0.013639
0.015602
0.015866
0.018275
0.01845
0.018501
0.020203
0.020501
0.026721
0.026946
0.027004
0.028899
0.029304

Figure 4

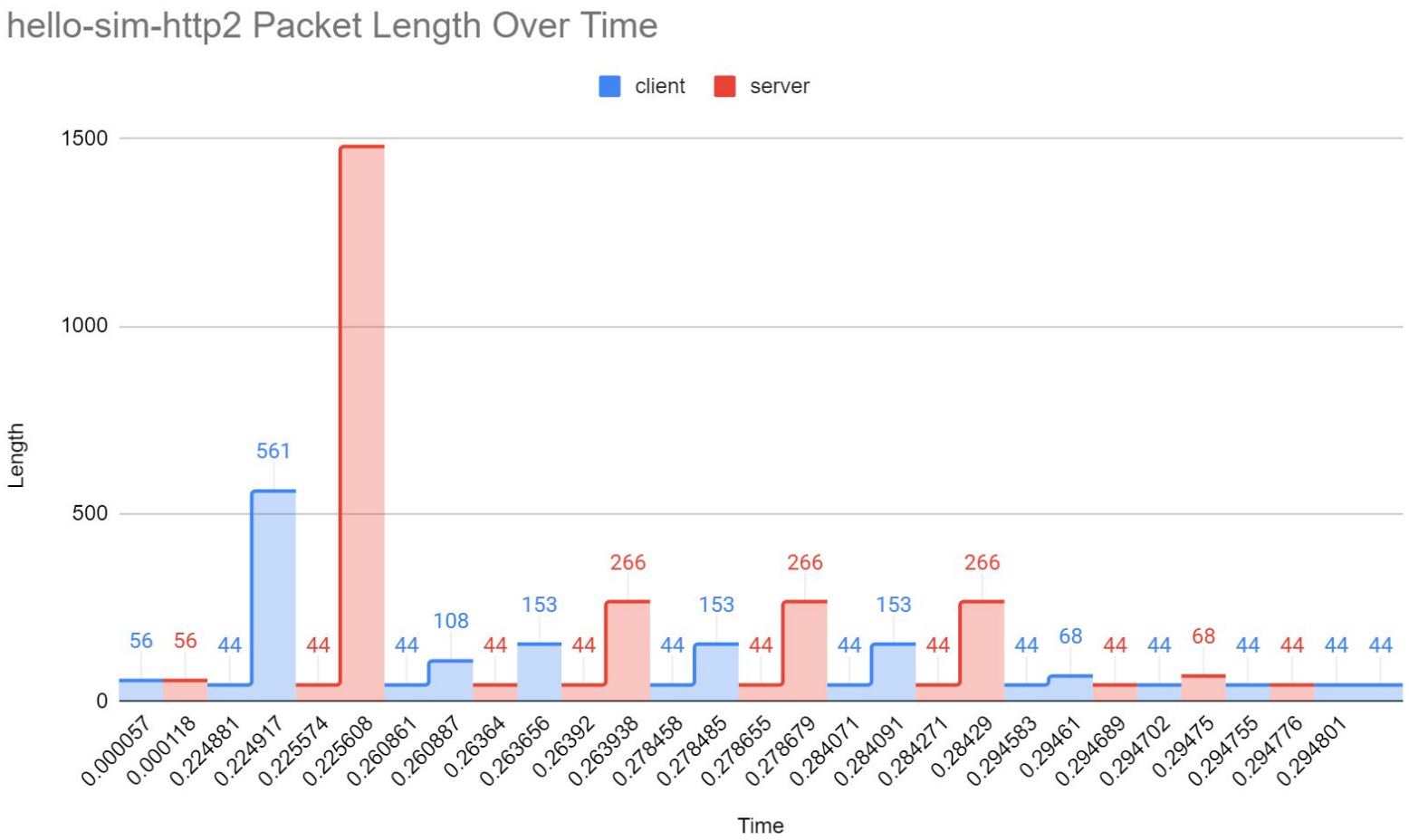
hello-sim-http2 Packet Length Over Time
client
server
Length
1500
1000
500
0
Time
56
56
44
561
44
1500
44
108
44
153
44
266
44
153
44
266
44
153
44
266
44
68
44
44
68
44
44
44
44
0.000057
0.000118
0.224881
0.224917
0.225574
0.225608
0.260861
0.260887
0.26364
0.263656
0.26392
0.263938
0.278458
0.278485
0.278655
0.278679
0.284071
0.284091
0.284271
0.28429
0.294583
0.29461
0.294689
0.294702
0.29475
0.294755
0.294776
0.294801

Figure 5

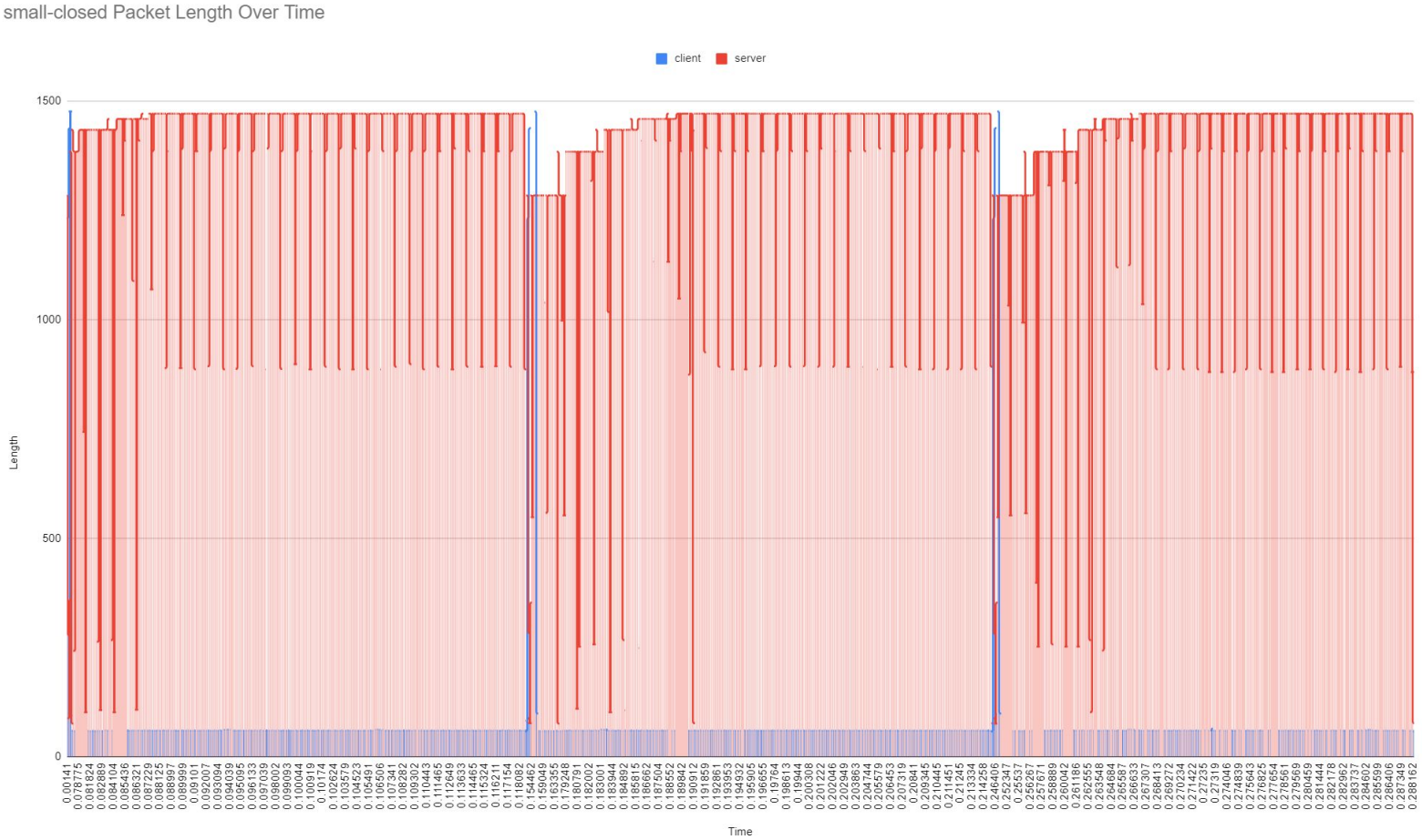
small-closed Packet Length Over Time
client
server
1500
1000
500
0
Length
Time

Figure 6

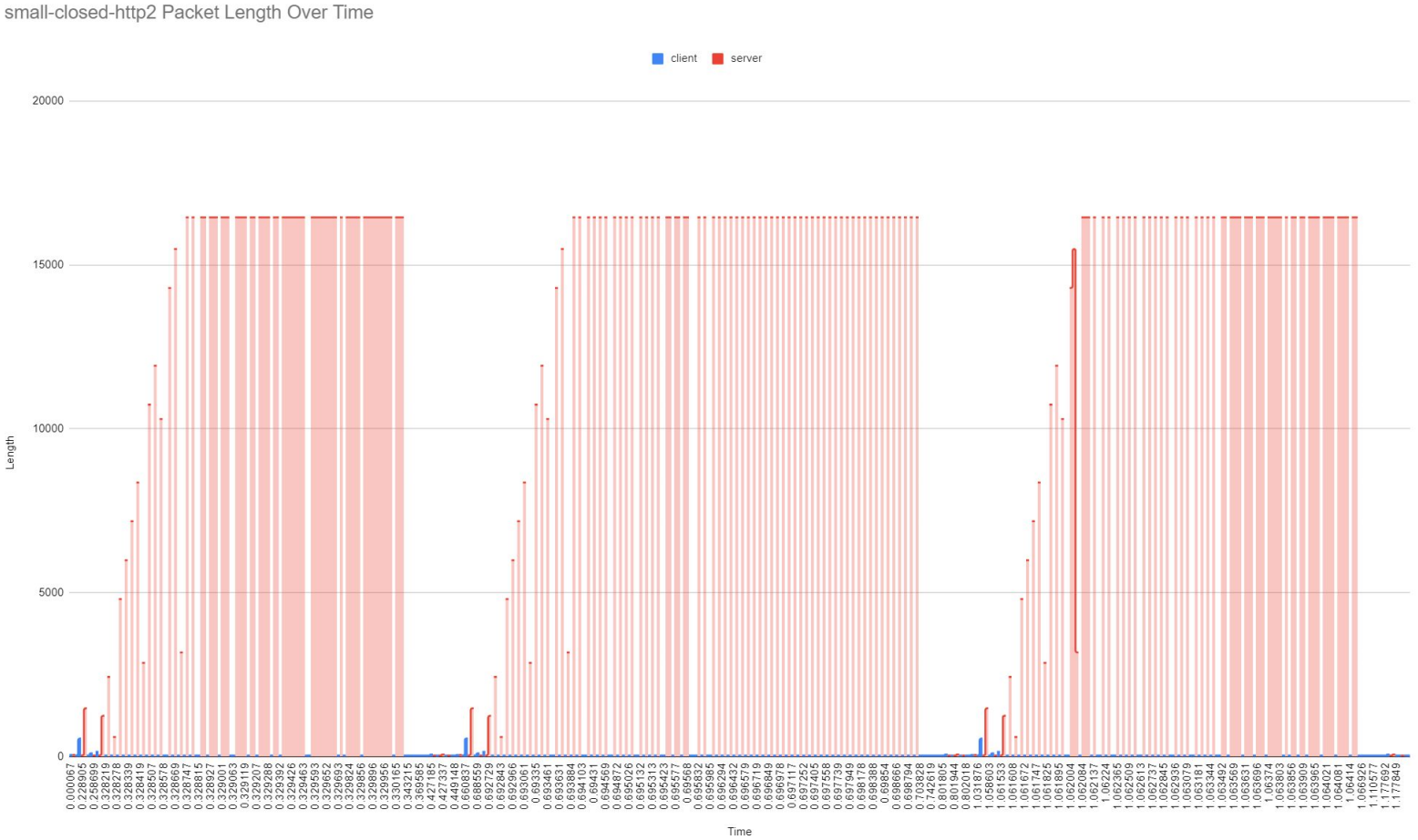
small-closed-http2 Packet Length Over Time
client
server
20000
15000
10000
5000
0
Length
Time

Figure 7

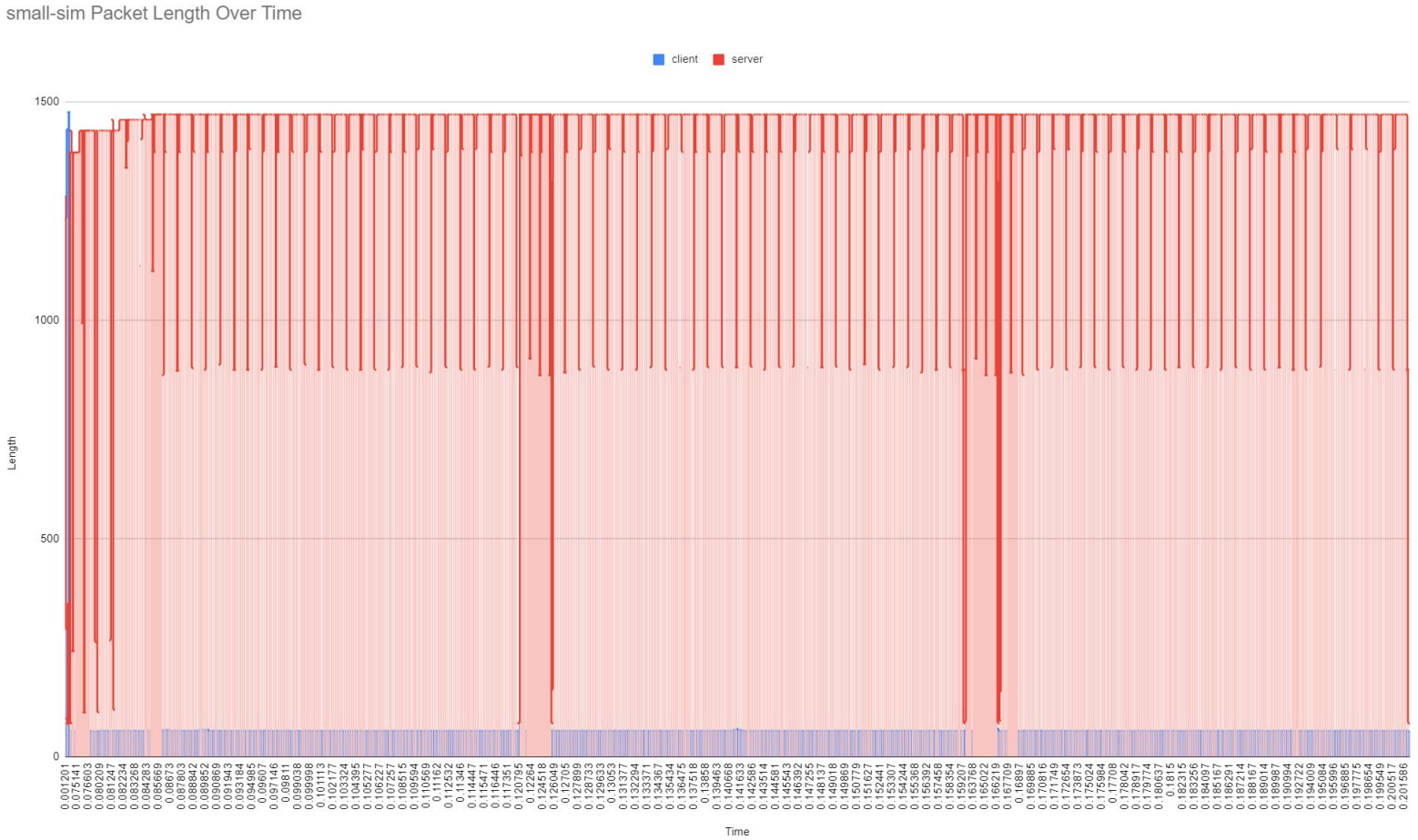
small-sim Packet Length Over Time
client
server
1500
1000
500
0
Length
Time

Figure 8

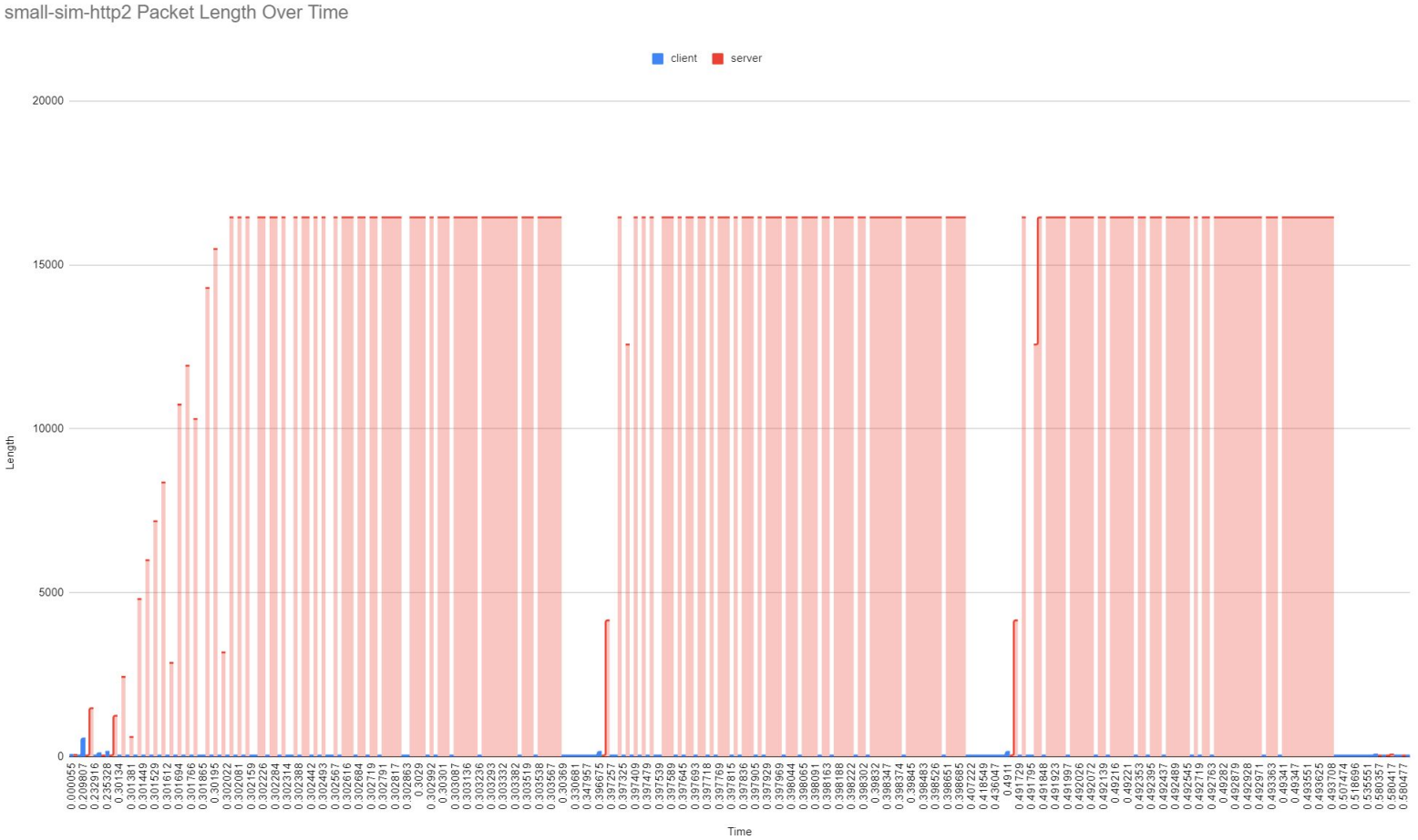
small-sim-http2 Packet Length Over Time
client
server
20000
15000
10000
5000
0
Length
Time

Figure 9

| | Number of frames | | Total data transferred | |
|---|---|---|---|---|
| | Client | Server | Client | Server |
| Not application data | 7 | 9 | 7581 | 4981 |
| Application data | 14 | 12 | 9409 | 3358 |
| Overall | 21 | 21 | 16990 | 8339 |
| Percentage of application data | 0.6666666667 | 0.5714285714 | 0.5537963508 | 0.4026861734 |

Figure 10

| | Number of frames | | Total data transferred | |
|---|---|---|---|---|
| | Client | Server | Client | Server |
| Not application data | 15 | 7 | 696 | 344 |
| Application data | 21 | 21 | 3066 | 5967 |
| Overall | 36 | 28 | 3762 | 6311 |
| Percentage of application data | 0.5833333333 | 0.75 | 0.8149920255 | 0.9454919981 |

Figure 11

| | Number of frames | | Total data transferred | |
|---|---|---|---|---|
| | Client | Server | Client | Server |
| Not application data | 2 | 3 | 2464 | 1660 |
| Application data | 11 | 11 | 3602 | 5382 |
| Overall | 13 | 14 | 6066 | 7042 |
| Percentage of application data | 0.8461538462 | 0.7857142857 | 0.5938015167 | 0.7642715138 |

Figure 12

| | Number of frames | | Total data transferred | |
|---|---|---|---|---|
| | Client | Server | Client | Server |
| Not application data | 5 | 3 | 232 | 144 |
| Application data | 11 | 10 | 1416 | 2565 |
| Overall | 16 | 13 | 1648 | 2709 |
| Percentage of application data | 0.6875 | 0.7692307692 | 0.859223301 | 0.9468438538 |

Figure 13

| | Number of frames | | Total data transferred | |
|---|---|---|---|---|
| | Client | Server | Client | Server |
| Not application data | 6 | 9 | 7392 | 4958 |
| Application data | 858 | 2378 | 60271 | 3347848 |
| Overall | 864 | 2387 | 67663 | 3352806 |
| Percentage of application data | 0.9930555556 | 0.9962295769 | 0.8907527009 | 0.9985212386 |

Figure 14

| | Number of frames | | Total data transferred | |
|---|---|---|---|---|
| | Client | Server | Client | Server |
| Not application data | 15 | 8 | 696 | 388 |
| Application data | 204 | 234 | 11118 | 3165807 |
| Overall | 219 | 242 | 11814 | 3166195 |
| Percentage of application data | 0.9315068493 | 0.9669421488 | 0.9410868461 | 0.9998774554 |

Figure 15

| | Number of frames | | Total data transferred | |
|---|---|---|---|---|
| | Client | Server | Client | Server |
| Not application data | 2 | 3 | 2464 | 1664 |
| Application data | 895 | 2384 | 56869 | 3337382 |
| Overall | 897 | 2387 | 59333 | 3339046 |
| Percentage of application data | 0.9977703456 | 0.9987431923 | 0.9584716768 | 0.9995016541 |

Figure 16

| | Number of frames | | Total data transferred | |
|---|---|---|---|---|
| | Client | Server | Client | Server |
| Not application data | 5 | 3 | 232 | 144 |
| Application data | 117 | 210 | 6080 | 3161523 |
| Overall | 122 | 213 | 6312 | 3161667 |
| Percentage of application data | 0.9590163934 | 0.985915493 | 0.9632446134 | 0.9999544544 |

Figure 17