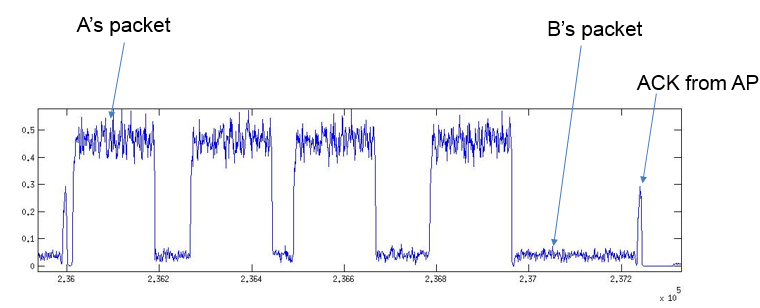
Analyzing the Medium Trace of an 802.11g Network

The purpose of this project is to obtain deeper understandings of the 802.11 MAC protocol. In particular, you will be given a file which records the received raw signal samples collected by a software-defined radio in an 802.11g network with one AP and 3 nodes, called nodes A, B, and C, configured as the following:

* Node A: 18 Mbps, highest power.
* Node B: 12 Mbps, medium power.
* Node C: 6 Mbps, lowest power.
* AP: high power.

The nodes send packets with size of around 1500 bytes to the AP; the AP does not have packets to the nodes, except its beacon packets. The following is a segment of the trace we have seen in the class:



You are asked to find the following statistic about node A from the trace:

1. The total number of packets transmitted
2. The total number of packets that have been ACKed by the AP
3. The total number of fresh packets, where a packet is considered fresh if the last packet was ACKed
4. The total number of fresh packets that have been ACKed

or example, the output of my program looks like this:

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Total number of packets from node A : 503

Total number of packets with ACK from node A : 349

Total number of fresh packets from node A : 349

Total number of fresh packets with ACK from node A : 286

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The software-defined radio takes one sample every 4 us, where each sample is a complex number (real, imag) . That is, each line has two numbers which are the real and imaginary parts of the raw sample. The test data is MAC\_testdata1 on Canvas, which contains 500000 samples or 2 seconds of data.

It is suggested to use the same numbers or the rules as mine same in your code:

1. The signal amplitude level above which the medium is considered busy: 0.005.
2. The medium is considered free if there are at least 3 consecutive samples with amplitude less than the threshold above.

The following is something that may be useful to examine against your code for debugging:

fresh pkt 1, location: [6468,6645], length: 708 us, acked 0, sentintocol 1, endswithcol 0, losscol 1, losscha 0, colstillgood 0

fresh pkt 2, location: [7507,7684], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 3, location: [8015,8192], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 4, location: [8767,8944], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 5, location: [10668,10844], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 6, location: [11984,12161], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 7, location: [13892,14069], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 8, location: [15881,16058], length: 708 us, acked 0, sentintocol 1, endswithcol 1, losscol 1, losscha 0, colstillgood 0

fresh pkt 9, location: [16787,16963], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 10, location: [17849,18026], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 11, location: [18067,18244], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 12, location: [18266,18442], length: 704 us, acked 1, sentintocol 0, endswithcol 1, losscol 0, losscha 0, colstillgood 1

fresh pkt 13, location: [18522,18699], length: 708 us, acked 0, sentintocol 1, endswithcol 1, losscol 1, losscha 0, colstillgood 0

fresh pkt 14, location: [19399,19576], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 15, location: [19644,19820], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 16, location: [19842,20019], length: 708 us, acked 1, sentintocol 0, endswithcol 1, losscol 0, losscha 0, colstillgood 1

fresh pkt 17, location: [20049,20226], length: 708 us, acked 0, sentintocol 1, endswithcol 1, losscol 1, losscha 0, colstillgood 0

fresh pkt 18, location: [21778,21955], length: 708 us, acked 0, sentintocol 1, endswithcol 1, losscol 1, losscha 0, colstillgood 0

fresh pkt 19, location: [32922,33098], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 20, location: [33120,33297], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 21, location: [34440,34617], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 22, location: [35516,35693], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 23, location: [37409,37585], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 24, location: [38477,38654], length: 708 us, acked 0, sentintocol 1, endswithcol 1, losscol 1, losscha 0, colstillgood 0

fresh pkt 25, location: [40536,40713], length: 708 us, acked 1, sentintocol 0, endswithcol 1, losscol 0, losscha 0, colstillgood 1

fresh pkt 26, location: [40755,40931], length: 704 us, acked 0, sentintocol 1, endswithcol 1, losscol 1, losscha 0, colstillgood 0

fresh pkt 27, location: [42147,42324], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 28, location: [42680,42857], length: 708 us, acked 0, sentintocol 1, endswithcol 1, losscol 1, losscha 0, colstillgood 0

fresh pkt 29, location: [80543,80720], length: 708 us, acked 0, sentintocol 1, endswithcol 1, losscol 1, losscha 0, colstillgood 0

fresh pkt 30, location: [82599,82776], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 31, location: [83389,83566], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 32, location: [84159,84335], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 33, location: [84653,84830], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 34, location: [84856,85033], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 35, location: [85939,86116], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 36, location: [86139,86316], length: 708 us, acked 1, sentintocol 0, endswithcol 1, losscol 0, losscha 0, colstillgood 1

fresh pkt 37, location: [86403,86580], length: 708 us, acked 0, sentintocol 1, endswithcol 1, losscol 1, losscha 0, colstillgood 0

fresh pkt 38, location: [92287,92463], length: 704 us, acked 0, sentintocol 1, endswithcol 1, losscol 1, losscha 0, colstillgood 0

fresh pkt 39, location: [95099,95275], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 40, location: [97519,97696], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 41, location: [99102,99279], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 42, location: [99597,99774], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 43, location: [100680,100857], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 44, location: [101182,101358], length: 704 us, acked 1, sentintocol 0, endswithcol 1, losscol 0, losscha 0, colstillgood 1

fresh pkt 45, location: [101425,101601], length: 704 us, acked 0, sentintocol 1, endswithcol 1, losscol 1, losscha 0, colstillgood 0

fresh pkt 46, location: [118130,118306], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 47, location: [118357,118534], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 48, location: [119104,119281], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 49, location: [119588,119765], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 50, location: [121240,121416], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 51, location: [122340,122517], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 52, location: [124840,125016], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 53, location: [126724,126901], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 54, location: [128071,128248], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 55, location: [128593,128770], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 56, location: [129090,129267], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 57, location: [129599,129776], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 58, location: [129799,129976], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 59, location: [131151,131328], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 60, location: [132761,132938], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 61, location: [133254,133430], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 62, location: [134342,134519], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 63, location: [135399,135576], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 64, location: [136437,136613], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 65, location: [136968,137144], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 66, location: [138031,138208], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 67, location: [138536,138713], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 68, location: [139305,139482], length: 708 us, acked 0, sentintocol 0, endswithcol 0, losscol 0, losscha 1, colstillgood 0

fresh pkt 69, location: [140841,141018], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 70, location: [141334,141511], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 71, location: [141836,142012], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 72, location: [142627,142804], length: 708 us, acked 1, sentintocol 0, endswithcol 1, losscol 0, losscha 0, colstillgood 1

fresh pkt 73, location: [142870,143047], length: 708 us, acked 0, sentintocol 1, endswithcol 1, losscol 1, losscha 0, colstillgood 0

fresh pkt 74, location: [146577,146754], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 75, location: [149017,149194], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 76, location: [150059,150236], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 77, location: [150844,151021], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 78, location: [151278,151455], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 79, location: [151795,151972], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 80, location: [152027,152204], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 81, location: [153082,153259], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 82, location: [154459,154636], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 83, location: [155223,155399], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 84, location: [156049,156226], length: 708 us, acked 0, sentintocol 1, endswithcol 1, losscol 1, losscha 0, colstillgood 0

fresh pkt 85, location: [176931,177107], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 86, location: [177145,177321], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 87, location: [178777,178953], length: 704 us, acked 1, sentintocol 0, endswithcol 1, losscol 0, losscha 0, colstillgood 1

fresh pkt 88, location: [179020,179197], length: 708 us, acked 0, sentintocol 1, endswithcol 1, losscol 1, losscha 0, colstillgood 0

fresh pkt 89, location: [181187,181364], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 90, location: [183099,183275], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 91, location: [183612,183788], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 92, location: [184394,184570], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 93, location: [184882,185059], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 94, location: [185935,186112], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 95, location: [187016,187193], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 96, location: [187214,187391], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 97, location: [188839,189016], length: 708 us, acked 0, sentintocol 1, endswithcol 1, losscol 1, losscha 0, colstillgood 0

fresh pkt 98, location: [190197,190374], length: 708 us, acked 1, sentintocol 0, endswithcol 1, losscol 0, losscha 0, colstillgood 1

fresh pkt 99, location: [190450,190626], length: 704 us, acked 0, sentintocol 1, endswithcol 1, losscol 1, losscha 0, colstillgood 0

fresh pkt 100, location: [191013,191189], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 101, location: [191813,191990], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 102, location: [192869,193045], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 103, location: [193957,194134], length: 708 us, acked 0, sentintocol 0, endswithcol 0, losscol 0, losscha 1, colstillgood 0

fresh pkt 104, location: [198841,199018], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 105, location: [200132,200308], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 106, location: [201473,201650], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 107, location: [203080,203257], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 108, location: [203280,203457], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 109, location: [205476,205653], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 110, location: [205676,205853], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 111, location: [206739,206916], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 112, location: [207265,207442], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 113, location: [208314,208491], length: 708 us, acked 0, sentintocol 1, endswithcol 1, losscol 1, losscha 0, colstillgood 0

fresh pkt 114, location: [210618,210794], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 115, location: [211401,211578], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 116, location: [212434,212611], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 117, location: [212656,212833], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 118, location: [212856,213033], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 119, location: [213061,213238], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 120, location: [214114,214291], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 121, location: [214879,215056], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 122, location: [216528,216705], length: 708 us, acked 0, sentintocol 1, endswithcol 1, losscol 1, losscha 0, colstillgood 0

fresh pkt 123, location: [217911,218087], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 124, location: [218454,218631], length: 708 us, acked 0, sentintocol 1, endswithcol 1, losscol 1, losscha 0, colstillgood 0

fresh pkt 125, location: [219417,219594], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 126, location: [219624,219801], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 127, location: [220137,220314], length: 708 us, acked 1, sentintocol 0, endswithcol 1, losscol 0, losscha 0, colstillgood 1

fresh pkt 128, location: [220396,220573], length: 708 us, acked 0, sentintocol 1, endswithcol 1, losscol 1, losscha 0, colstillgood 0

fresh pkt 129, location: [222290,222467], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 130, location: [223096,223272], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 131, location: [223303,223479], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 132, location: [224916,225093], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 133, location: [226267,226443], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 134, location: [227272,227449], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 135, location: [227470,227647], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 136, location: [228523,228699], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 137, location: [229278,229455], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 138, location: [229793,229970], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 139, location: [230556,230733], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 140, location: [231055,231232], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 141, location: [231580,231756], length: 704 us, acked 0, sentintocol 1, endswithcol 1, losscol 1, losscha 0, colstillgood 0

fresh pkt 142, location: [232951,233128], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 143, location: [233177,233353], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 144, location: [233388,233565], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 145, location: [234455,234632], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 146, location: [235512,235689], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 147, location: [236014,236191], length: 708 us, acked 0, sentintocol 0, endswithcol 1, losscol 1, losscha 0, colstillgood 0

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fresh pkt 304, location: [473934,474111], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

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fresh pkt 308, location: [475913,476090], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 309, location: [476439,476616], length: 708 us, acked 0, sentintocol 0, endswithcol 0, losscol 0, losscha 1, colstillgood 0

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fresh pkt 313, location: [478761,478938], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 314, location: [478975,479152], length: 708 us, acked 0, sentintocol 0, endswithcol 1, losscol 1, losscha 0, colstillgood 0

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fresh pkt 316, location: [480747,480924], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

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fresh pkt 318, location: [481677,481854], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 319, location: [481920,482097], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 320, location: [482168,482345], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 321, location: [482413,482590], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

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fresh pkt 323, location: [482900,483077], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

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fresh pkt 326, location: [483683,483859], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

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fresh pkt 328, location: [484172,484348], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 329, location: [484379,484555], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 330, location: [484577,484754], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 331, location: [484829,485006], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 332, location: [485035,485212], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 333, location: [485806,485983], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 334, location: [486556,486732], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 335, location: [487340,487517], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 336, location: [488099,488275], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 337, location: [488870,489047], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 338, location: [489077,489253], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 339, location: [489853,490030], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 340, location: [490639,490815], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 341, location: [491984,492161], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 342, location: [492768,492945], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 343, location: [493560,493736], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 344, location: [493767,493943], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 345, location: [495102,495279], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 346, location: [495903,496079], length: 704 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 347, location: [496665,496842], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0

fresh pkt 348, location: [497449,497626], length: 708 us, acked 0, sentintocol 0, endswithcol 1, losscol 1, losscha 0, colstillgood 0

fresh pkt 349, location: [498591,498768], length: 708 us, acked 1, sentintocol 0, endswithcol 0, losscol 0, losscha 0, colstillgood 0