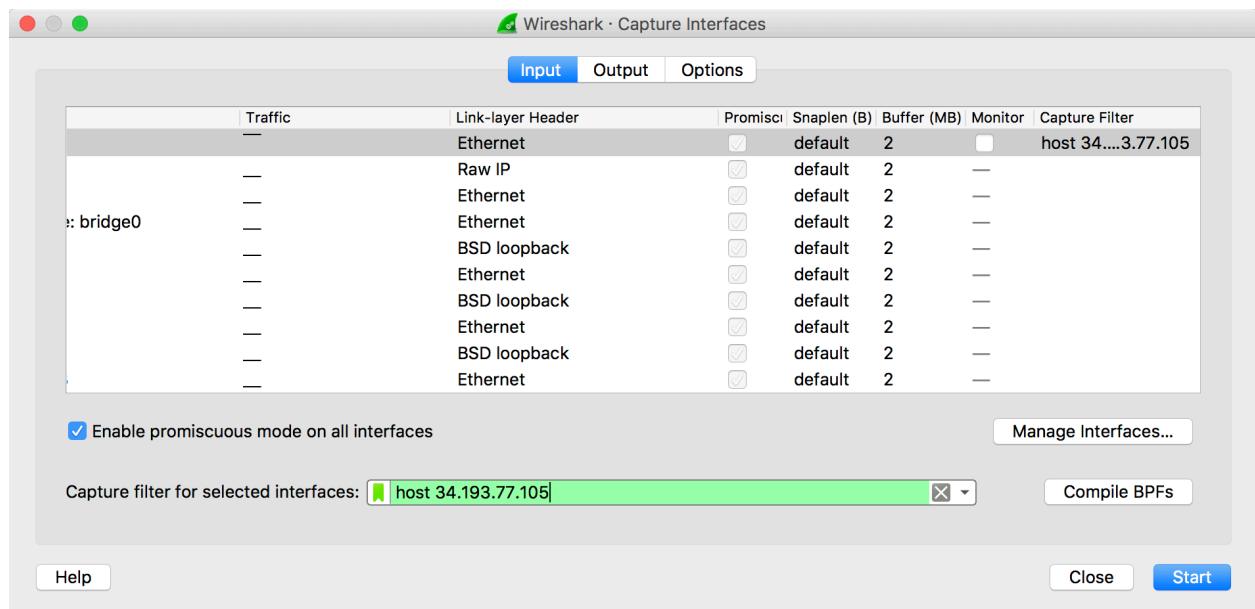


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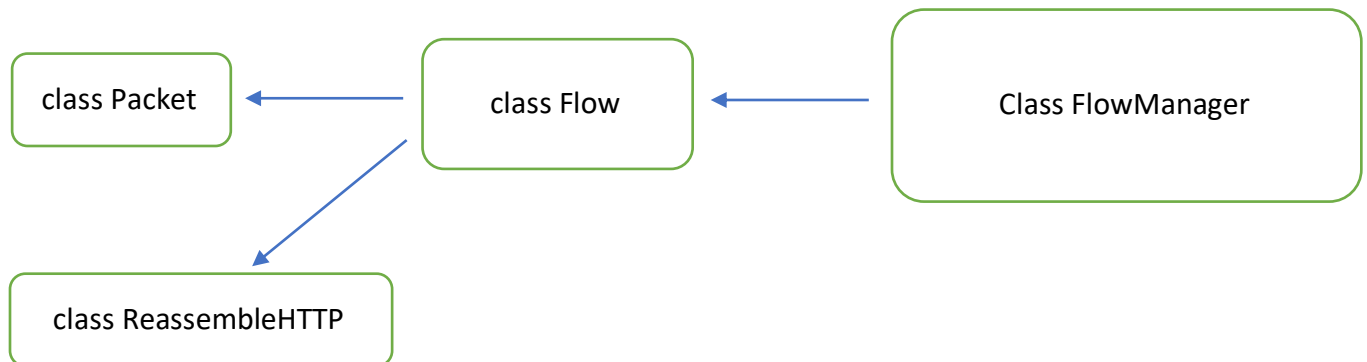
1 Command Used

host 34.193.77.105



2 High level View

There are four classes: Packet, Flow, FlowManager, and ReassembleHTTP



1. Class **Packet** encapsulates all the information in a packet. The most important method of this packet is **parsing** the **raw bytes** into **human readable TCP fields**.
2. Class **Flow** encapsulates a list of all packets in a flow. A flow is identified by unique **port pair (source, dest)**. This class contains important methods including **reassemble_http()**, **data_from_server()**, **packet_from_server()**, **last_packet_time()**
3. Class **FlowManager** encapsulates all the flows in a pcap file. It manages everything.
4. Class **ReassembleHTTP** encapsulates a HTTP Request, Response, and its **TCP segments in between** if exist.

How to run the program:

```
caitaos-mbp:homework-2 caitao$ python analysis_pcap_http.py
```

The program is written in Python3

To tell HTTP/1.1 against HTTP/2.0, we count the **number of TCP connection** that server uses to **send website data** to the client. HTTP/2.0 uses single TCP connection while HTTP/1.1 uses parallel (multiple) connection.

3 Answers

3.1 Part C (1)

init a new flow 100
init a new flow 101
init a new flow 102
init a new flow 103
init a new flow 104
init a new flow 105
init a new flow 106
init a new flow 107
init a new flow 108
init a new flow 109
init a new flow 110
init a new flow 111
init a new flow 112
init a new flow 113
init a new flow 114
init a new flow 115
init a new flow 116

GET / HTTP/1.1\r\nHost: www.sbunetsyslabs.com:1080\r\n
The TCP segments are below:
(1080, 55865, 935115745, 38922553)

GET /img/apple.jpeg HTTP/1.1\r\nHost: www.sbunetsyslabs.com:1080\r\n
The TCP segments are below:
(1080, 55866, 1756326845, 496753041)
(1080, 55866, 1756328219, 496753041)
(1080, 55866, 1756329593, 496753041)
(1080, 55866, 1756330967, 496753041)

GET /js/hello.js HTTP/1.1\r\nHost: www.sbunetsyslabs.com:1080\r\n

The TCP segments are below:

(1080, 55867, 2007857031, 252569236)

GET /img/orange.jpeg HTTP/1.1\r\nHost: www.sbunetsyslabs.com:1080\r\n

The TCP segments are below:

(1080, 55868, 3376954948, 1666867240)

(1080, 55868, 3376956322, 1666867240)

(1080, 55868, 3376957696, 1666867240)

(1080, 55868, 3376959070, 1666867240)

(1080, 55868, 3376960444, 1666867240)

(1080, 55868, 3376961818, 1666867240)

GET /img/banana.jpeg HTTP/1.1\r\nHost: www.sbunetsyslabs.com:1080\r\n

The TCP segments are below:

(1080, 55869, 3402989076, 3225620044)

(1080, 55869, 3402990450, 3225620044)

(1080, 55869, 3402991824, 3225620044)

(1080, 55869, 3402993198, 3225620044)

GET /img/watermelon.jpeg HTTP/1.1\r\nHost: www.sbunetsyslabs.com:1080\r\n

The TCP segments are below:

(1080, 55870, 403903132, 1315392875)

(1080, 55870, 403904506, 1315392875)

(1080, 55870, 403905880, 1315392875)

(1080, 55870, 403907254, 1315392875)

(1080, 55870, 403908628, 1315392875)

(1080, 55870, 403910002, 1315392875)

(1080, 55870, 403911376, 1315392875)

(1080, 55870, 403912750, 1315392875)

(1080, 55870, 403914124, 1315392875)

(1080, 55870, 403915498, 1315392875)

(1080, 55870, 403916872, 1315392875)

(1080, 55870, 403918246, 1315392875)

(1080, 55870, 403919620, 1315392875)

(1080, 55870, 403920994, 1315392875)

(1080, 55870, 403922368, 1315392875)

(1080, 55870, 403923742, 1315392875)

(1080, 55870, 403925116, 1315392875)

(1080, 55870, 403926490, 1315392875)
(1080, 55870, 403927864, 1315392875)
(1080, 55870, 403929238, 1315392875)
(1080, 55870, 403930612, 1315392875)
(1080, 55870, 403931986, 1315392875)
(1080, 55870, 403933360, 1315392875)
(1080, 55870, 403934734, 1315392875)
(1080, 55870, 403936108, 1315392875)
(1080, 55870, 403937482, 1315392875)
(1080, 55870, 403938856, 1315392875)
(1080, 55870, 403940230, 1315392875)
(1080, 55870, 403941604, 1315392875)
(1080, 55870, 403942978, 1315392875)
(1080, 55870, 403944352, 1315392875)
(1080, 55870, 403945726, 1315392875)
(1080, 55870, 403947100, 1315392875)
(1080, 55870, 403948474, 1315392875)
(1080, 55870, 403949848, 1315392875)
(1080, 55870, 403951222, 1315392875)
(1080, 55870, 403952596, 1315392875)

GET /img/cantaloupe-melon.jpeg HTTP/1.1\r\nHost: www.sbunetsyslabs.com:1080\r\nThe TCP segments are below:

(1080, 55871, 3167123858, 3011088454)
(1080, 55871, 3167125232, 3011088454)
(1080, 55871, 3167126606, 3011088454)
(1080, 55871, 3167127980, 3011088454)
(1080, 55871, 3167129354, 3011088454)

GET /img/honeydew-melon.jpeg HTTP/1.1\r\nHost: www.sbunetsyslabs.com:1080\r\nThe TCP segments are below:

(1080, 55872, 3312723214, 2687146420)
(1080, 55872, 3312724588, 2687146420)
(1080, 55872, 3312725962, 2687146420)
(1080, 55872, 3312727336, 2687146420)
(1080, 55872, 3312728710, 2687146420)
(1080, 55872, 3312730084, 2687146420)
(1080, 55872, 3312731458, 2687146420)
(1080, 55872, 3312732832, 2687146420)
(1080, 55872, 3312734206, 2687146420)

(1080, 55872, 3312735580, 2687146420)
(1080, 55872, 3312736954, 2687146420)
(1080, 55872, 3312738328, 2687146420)
(1080, 55872, 3312739702, 2687146420)
(1080, 55872, 3312741076, 2687146420)
(1080, 55872, 3312742450, 2687146420)
(1080, 55872, 3312743824, 2687146420)
(1080, 55872, 3312745198, 2687146420)
(1080, 55872, 3312746572, 2687146420)
(1080, 55872, 3312747946, 2687146420)

GET /img/pomegranate.jpeg HTTP/1.1\r\nHost: www.sbunetsyslabs.com:1080\r\nThe TCP segments are below:

(1080, 55873, 1355898061, 3497948403)
(1080, 55873, 1355899435, 3497948403)
(1080, 55873, 1355900809, 3497948403)
(1080, 55873, 1355902183, 3497948403)
(1080, 55873, 1355903557, 3497948403)
(1080, 55873, 1355904931, 3497948403)
(1080, 55873, 1355906305, 3497948403)
(1080, 55873, 1355907679, 3497948403)
(1080, 55873, 1355909053, 3497948403)
(1080, 55873, 1355910427, 3497948403)
(1080, 55873, 1355911801, 3497948403)
(1080, 55873, 1355913175, 3497948403)
(1080, 55873, 1355914549, 3497948403)
(1080, 55873, 1355915923, 3497948403)
(1080, 55873, 1355917297, 3497948403)
(1080, 55873, 1355918671, 3497948403)
(1080, 55873, 1355920045, 3497948403)
(1080, 55873, 1355921419, 3497948403)
(1080, 55873, 1355922793, 3497948403)
(1080, 55873, 1355924167, 3497948403)
(1080, 55873, 1355925541, 3497948403)
(1080, 55873, 1355926915, 3497948403)
(1080, 55873, 1355928289, 3497948403)
(1080, 55873, 1355929663, 3497948403)
(1080, 55873, 1355931037, 3497948403)
(1080, 55873, 1355932411, 3497948403)
(1080, 55873, 1355933785, 3497948403)
(1080, 55873, 1355935159, 3497948403)
(1080, 55873, 1355936533, 3497948403)

(1080, 55873, 1355937907, 3497948403)
(1080, 55873, 1355939281, 3497948403)
(1080, 55873, 1355940655, 3497948403)
(1080, 55873, 1355942029, 3497948403)
(1080, 55873, 1355943403, 3497948403)
(1080, 55873, 1355944777, 3497948403)
(1080, 55873, 1355946151, 3497948403)
(1080, 55873, 1355947525, 3497948403)
(1080, 55873, 1355948899, 3497948403)
(1080, 55873, 1355950273, 3497948403)
(1080, 55873, 1355951647, 3497948403)
(1080, 55873, 1355953021, 3497948403)
(1080, 55873, 1355954395, 3497948403)
(1080, 55873, 1355955769, 3497948403)
(1080, 55873, 1355957143, 3497948403)
(1080, 55873, 1355958517, 3497948403)
(1080, 55873, 1355959891, 3497948403)
(1080, 55873, 1355961265, 3497948403)
(1080, 55873, 1355962639, 3497948403)
(1080, 55873, 1355964013, 3497948403)
(1080, 55873, 1355965387, 3497948403)
(1080, 55873, 1355966761, 3497948403)
(1080, 55873, 1355968135, 3497948403)
(1080, 55873, 1355969509, 3497948403)
(1080, 55873, 1355970883, 3497948403)
(1080, 55873, 1355972257, 3497948403)
(1080, 55873, 1355973631, 3497948403)
(1080, 55873, 1355975005, 3497948403)
(1080, 55873, 1355976379, 3497948403)
(1080, 55873, 1355977753, 3497948403)
(1080, 55873, 1355979127, 3497948403)
(1080, 55873, 1355980501, 3497948403)
(1080, 55873, 1355981875, 3497948403)
(1080, 55873, 1355983249, 3497948403)
(1080, 55873, 1355984623, 3497948403)

GET /img/raspberry.jpeg HTTP/1.1\r\nHost: www.sbunetsyslabs.com:1080\r\n

The TCP segments are below:

(1080, 55874, 239902560, 704837603)
(1080, 55874, 239903934, 704837603)
(1080, 55874, 239905308, 704837603)
(1080, 55874, 239906682, 704837603)

GET /img/blueberry.jpeg HTTP/1.1\r\nHost: www.sbunetsyslabs.com:1080\r\n

The TCP segments are below:

(1080, 55875, 2089025976, 3924323886)
(1080, 55875, 2089027350, 3924323886)
(1080, 55875, 2089028724, 3924323886)
(1080, 55875, 2089030098, 3924323886)
(1080, 55875, 2089031472, 3924323886)
(1080, 55875, 2089032846, 3924323886)
(1080, 55875, 2089034220, 3924323886)
(1080, 55875, 2089035594, 3924323886)
(1080, 55875, 2089036968, 3924323886)
(1080, 55875, 2089038342, 3924323886)
(1080, 55875, 2089039716, 3924323886)
(1080, 55875, 2089041090, 3924323886)
(1080, 55875, 2089042464, 3924323886)
(1080, 55875, 2089043838, 3924323886)
(1080, 55875, 2089045212, 3924323886)
(1080, 55875, 2089046586, 3924323886)
(1080, 55875, 2089047960, 3924323886)
(1080, 55875, 2089049334, 3924323886)
(1080, 55875, 2089050708, 3924323886)
(1080, 55875, 2089052082, 3924323886)
(1080, 55875, 2089053456, 3924323886)
(1080, 55875, 2089054830, 3924323886)
(1080, 55875, 2089056204, 3924323886)
(1080, 55875, 2089057578, 3924323886)
(1080, 55875, 2089058952, 3924323886)

GET /img/raspberrypi.jpeg HTTP/1.1\r\nHost: www.sbunetsyslabs.com:1080\r\n

The TCP segments are below:

(1080, 55876, 2153038843, 1171225511)
(1080, 55876, 2153040217, 1171225511)
(1080, 55876, 2153041591, 1171225511)
(1080, 55876, 2153042965, 1171225511)
(1080, 55876, 2153044339, 1171225511)
(1080, 55876, 2153045713, 1171225511)

GET /img/strawberry.jpeg HTTP/1.1\r\nHost: www.sbunetsyslabs.com:1080\r\n

The TCP segments are below:

(1080, 55877, 2762392716, 2158436670)
(1080, 55877, 2762394090, 2158436670)
(1080, 55877, 2762395464, 2158436670)
(1080, 55877, 2762396838, 2158436670)
(1080, 55877, 2762398212, 2158436670)
(1080, 55877, 2762399586, 2158436670)
(1080, 55877, 2762400960, 2158436670)
(1080, 55877, 2762402334, 2158436670)
(1080, 55877, 2762403708, 2158436670)
(1080, 55877, 2762405082, 2158436670)
(1080, 55877, 2762406456, 2158436670)
(1080, 55877, 2762407830, 2158436670)
(1080, 55877, 2762409204, 2158436670)
(1080, 55877, 2762410578, 2158436670)
(1080, 55877, 2762411952, 2158436670)
(1080, 55877, 2762413326, 2158436670)
(1080, 55877, 2762414700, 2158436670)
(1080, 55877, 2762416074, 2158436670)
(1080, 55877, 2762417448, 2158436670)
(1080, 55877, 2762418822, 2158436670)
(1080, 55877, 2762420196, 2158436670)
(1080, 55877, 2762421570, 2158436670)
(1080, 55877, 2762422944, 2158436670)
(1080, 55877, 2762424318, 2158436670)
(1080, 55877, 2762425692, 2158436670)
(1080, 55877, 2762427066, 2158436670)
(1080, 55877, 2762428440, 2158436670)
(1080, 55877, 2762429814, 2158436670)

GET /img/dragonfruit.jpeg HTTP/1.1\r\nHost: www.sbunetsyslabs.com:1080\r\n

The TCP segments are below:

(1080, 55878, 2288922974, 2954401113)
(1080, 55878, 2288924348, 2954401113)
(1080, 55878, 2288925722, 2954401113)
(1080, 55878, 2288927096, 2954401113)
(1080, 55878, 2288928470, 2954401113)
(1080, 55878, 2288929844, 2954401113)
(1080, 55878, 2288931218, 2954401113)
(1080, 55878, 2288932592, 2954401113)
(1080, 55878, 2288933966, 2954401113)

(1080, 55878, 2288935340, 2954401113)
(1080, 55878, 2288936714, 2954401113)
(1080, 55878, 2288938088, 2954401113)
(1080, 55878, 2288939462, 2954401113)
(1080, 55878, 2288940836, 2954401113)
(1080, 55878, 2288942210, 2954401113)
(1080, 55878, 2288943584, 2954401113)
(1080, 55878, 2288944958, 2954401113)
(1080, 55878, 2288946332, 2954401113)
(1080, 55878, 2288947706, 2954401113)
(1080, 55878, 2288949080, 2954401113)
(1080, 55878, 2288950454, 2954401113)
(1080, 55878, 2288951828, 2954401113)
(1080, 55878, 2288953202, 2954401113)
(1080, 55878, 2288954576, 2954401113)
(1080, 55878, 2288955950, 2954401113)
(1080, 55878, 2288957324, 2954401113)
(1080, 55878, 2288958698, 2954401113)
(1080, 55878, 2288960072, 2954401113)
(1080, 55878, 2288961446, 2954401113)
(1080, 55878, 2288962820, 2954401113)
(1080, 55878, 2288964194, 2954401113)
(1080, 55878, 2288965568, 2954401113)
(1080, 55878, 2288966942, 2954401113)
(1080, 55878, 2288968316, 2954401113)
(1080, 55878, 2288969690, 2954401113)
(1080, 55878, 2288971064, 2954401113)
(1080, 55878, 2288972438, 2954401113)
(1080, 55878, 2288973812, 2954401113)
(1080, 55878, 2288975186, 2954401113)
(1080, 55878, 2288976560, 2954401113)
(1080, 55878, 2288977934, 2954401113)
(1080, 55878, 2288979308, 2954401113)
(1080, 55878, 2288980682, 2954401113)
(1080, 55878, 2288982056, 2954401113)
(1080, 55878, 2288983430, 2954401113)
(1080, 55878, 2288984804, 2954401113)
(1080, 55878, 2288986178, 2954401113)
(1080, 55878, 2288987552, 2954401113)
(1080, 55878, 2288988926, 2954401113)
(1080, 55878, 2288990300, 2954401113)
(1080, 55878, 2288991674, 2954401113)
(1080, 55878, 2288993048, 2954401113)
(1080, 55878, 2288994422, 2954401113)

(1080, 55878, 2288995796, 2954401113)
(1080, 55878, 2288997170, 2954401113)
(1080, 55878, 2288998544, 2954401113)
(1080, 55878, 2288999918, 2954401113)
(1080, 55878, 2289001292, 2954401113)
(1080, 55878, 2289002666, 2954401113)
(1080, 55878, 2289004040, 2954401113)
(1080, 55878, 2289005414, 2954401113)
(1080, 55878, 2289006788, 2954401113)
(1080, 55878, 2289008162, 2954401113)
(1080, 55878, 2289009536, 2954401113)
(1080, 55878, 2289010910, 2954401113)
(1080, 55878, 2289012284, 2954401113)
(1080, 55878, 2289013658, 2954401113)
(1080, 55878, 2289015032, 2954401113)
(1080, 55878, 2289016406, 2954401113)
(1080, 55878, 2289017780, 2954401113)
(1080, 55878, 2289019154, 2954401113)
(1080, 55878, 2289020528, 2954401113)
(1080, 55878, 2289021902, 2954401113)
(1080, 55878, 2289023276, 2954401113)
(1080, 55878, 2289024650, 2954401113)
(1080, 55878, 2289026024, 2954401113)
(1080, 55878, 2289027398, 2954401113)
(1080, 55878, 2289028772, 2954401113)
(1080, 55878, 2289030146, 2954401113)
(1080, 55878, 2289031520, 2954401113)
(1080, 55878, 2289032894, 2954401113)
(1080, 55878, 2289034268, 2954401113)
(1080, 55878, 2289035642, 2954401113)
(1080, 55878, 2289037016, 2954401113)
(1080, 55878, 2289038390, 2954401113)
(1080, 55878, 2289039764, 2954401113)
(1080, 55878, 2289041138, 2954401113)
(1080, 55878, 2289042512, 2954401113)
(1080, 55878, 2289043886, 2954401113)
(1080, 55878, 2289045260, 2954401113)
(1080, 55878, 2289046634, 2954401113)
(1080, 55878, 2289048008, 2954401113)
(1080, 55878, 2289049382, 2954401113)
(1080, 55878, 2289050756, 2954401113)
(1080, 55878, 2289052130, 2954401113)
(1080, 55878, 2289053504, 2954401113)
(1080, 55878, 2289054878, 2954401113)

(1080, 55878, 2289056252, 2954401113)
(1080, 55878, 2289057626, 2954401113)
(1080, 55878, 2289059000, 2954401113)
(1080, 55878, 2289060374, 2954401113)
(1080, 55878, 2289061748, 2954401113)
(1080, 55878, 2289063122, 2954401113)
(1080, 55878, 2289064496, 2954401113)
(1080, 55878, 2289065870, 2954401113)
(1080, 55878, 2289067244, 2954401113)
(1080, 55878, 2289068618, 2954401113)
(1080, 55878, 2289069992, 2954401113)
(1080, 55878, 2289071366, 2954401113)
(1080, 55878, 2289072740, 2954401113)
(1080, 55878, 2289074114, 2954401113)
(1080, 55878, 2289075488, 2954401113)
(1080, 55878, 2289076862, 2954401113)
(1080, 55878, 2289078236, 2954401113)
(1080, 55878, 2289079610, 2954401113)
(1080, 55878, 2289080984, 2954401113)
(1080, 55878, 2289082358, 2954401113)
(1080, 55878, 2289083732, 2954401113)
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(1080, 55878, 2289087854, 2954401113)
(1080, 55878, 2289089228, 2954401113)
(1080, 55878, 2289090602, 2954401113)
(1080, 55878, 2289091976, 2954401113)
(1080, 55878, 2289093350, 2954401113)
(1080, 55878, 2289094724, 2954401113)
(1080, 55878, 2289096098, 2954401113)
(1080, 55878, 2289097472, 2954401113)
(1080, 55878, 2289098846, 2954401113)
(1080, 55878, 2289100220, 2954401113)
(1080, 55878, 2289101594, 2954401113)
(1080, 55878, 2289102968, 2954401113)
(1080, 55878, 2289104342, 2954401113)
(1080, 55878, 2289105716, 2954401113)
(1080, 55878, 2289107090, 2954401113)
(1080, 55878, 2289108464, 2954401113)
(1080, 55878, 2289109838, 2954401113)
(1080, 55878, 2289111212, 2954401113)
(1080, 55878, 2289112586, 2954401113)
(1080, 55878, 2289113960, 2954401113)
(1080, 55878, 2289115334, 2954401113)

(1080, 55878, 2289116708, 2954401113)
(1080, 55878, 2289118082, 2954401113)
(1080, 55878, 2289119456, 2954401113)
(1080, 55878, 2289120830, 2954401113)
(1080, 55878, 2289122204, 2954401113)
(1080, 55878, 2289123578, 2954401113)
(1080, 55878, 2289124952, 2954401113)
(1080, 55878, 2289126326, 2954401113)
(1080, 55878, 2289127700, 2954401113)
(1080, 55878, 2289129074, 2954401113)
(1080, 55878, 2289130448, 2954401113)
(1080, 55878, 2289131822, 2954401113)
(1080, 55878, 2289133196, 2954401113)
(1080, 55878, 2289134570, 2954401113)
(1080, 55878, 2289135944, 2954401113)
(1080, 55878, 2289137318, 2954401113)
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GET /img/grapes.jpeg HTTP/1.1\r\nHost: www.sbunetsyslabs.com:1080\r\n

The TCP segments are below:

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(1080, 55880, 2767384992, 1758715922)
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GET /img/tomato.jpeg HTTP/1.1\r\nHost: www.sbunetsyslabs.com:1080\r\n

The TCP segments are below:

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3.2 Part C (2)

Port 1081 uses HTTP/1.1

Port 1082 uses HTTP/2.0

3.2.1 Port 1081

init a new flow 117

init a new flow 118

init a new flow 119

init a new flow 120

Flow 117: 980190 byte of data has been send from server to client

Flow 118: 1051066 byte of data has been send from server to client

Flow 119: 106420 byte of data has been send from server to client

Flow 120: 6586 byte of data has been send from server to client

Data from all flows: 2144262

4 TCP connection opened on server side to send website data to client.

This is **HTTP/1.1** since it uses **parallel(multiple) TCP connection** to send website data

3.2.2 Port 1082

init a new flow 121

init a new flow 122

Flow 121: 2174340 byte of data has been send from server to client

Flow 122: 3261 byte of data has been send from server to client

Data from all flows: 2177601

1 TCP connection opened on server side to send website data to client.

1 TCP connection opened merely for TLS key exchange

This is **HTTP/2.0** since it uses **single TCP connection** to send website data

3.3 Part C (3)

3.3.1 HTTP/1.0

Flow 100: 825 byte of data has been send from server to client
Flow 101: 4304 byte of data has been send from server to client
Flow 102: 457 byte of data has been send from server to client
Flow 103: 9116 byte of data has been send from server to client
Flow 104: 4148 byte of data has been send from server to client
Flow 105: 51305 byte of data has been send from server to client
Flow 106: 7791 byte of data has been send from server to client
Flow 107: 26744 byte of data has been send from server to client
Flow 108: 88088 byte of data has been send from server to client
Flow 109: 6433 byte of data has been send from server to client
Flow 110: 34890 byte of data has been send from server to client
Flow 111: 9591 byte of data has been send from server to client
Flow 112: 39450 byte of data has been send from server to client
Flow 113: 764771 byte of data has been send from server to client
Flow 114: 978201 byte of data has been send from server to client
Flow 115: 6308 byte of data has been send from server to client
Flow 116: 105968 byte of data has been send from server to client

Load time = 0.5521 s

Number of packets = 1624

Raw bytes = 2138390 byte

3.3.2 HTTP/1.1

Flow 117: 9 80190 byte of data has been send from server to client
Flow 118: 1051066 byte of data has been send from server to client
Flow 119: 106420 byte of data has been send from server to client
Flow 120: 6586 byte of data has been send from server to client

Load time = 0.4662 s

Number of packets = 1611

Raw bytes = 2144262 byte

3.3.3 HTTP/2.0

Flow 121: 2174340 byte of data has been send from server to client

Flow 122: 3261 byte of data has been send from server to client

Load time = 0.2544 s

Number of packets = 1609

Raw bytes = 2177601 byte

3.3.4 Compare and Explanation

	HTTP/1.0	HTTP/1.1	HTTP/2.0
# of Connections	17	4	2 (only 1 sends website data)
Load Time	0.5521	0.4662	0.2544
# of Packets	1624	1611	1609
Raw Bytes	2138390	2144262	2177601

1. HTTP/2.0 is the fastest and HTTP/1.0 is the slowest. Note that 1.1 and 2.0 finishes sending data faster than 1.0, but their TCP connection close a lot later than 1.0.
2. HTTP/1.0 is the slowest because one TCP connection only deliver one object. HTTP/1.1 speeds up by using parallel (multiple) TCP connection. HTTP/2.0 speeds up by using a single TCP connection with pipelining or multiplexing. HTTP/2.0 performs good when objects are small, and loss rate is low (SPDY paper). This is exactly the case in this homework.
3. HTTP/1.1 sends less # of packets than HTTP/1.0, and HTTP/2.0 sends less # of packets than HTTP/1.1. This is because HTTP/1.1 compresses payload data, and HTTP/2.0 compress both payload data and header.
4. Note that JPEG images are already compressed. So, they are hard to compress furthermore. Therefore, the reduction of # of packets are not that impressive comparing HTTP/1.1 and HTTP/1.0. Headers data are small; thus, the compressing of header will only save a few # of packets comparing HTTP/1.1 and HTTP/2.0.
5. The total amount of raw bytes send are quite the same. HTTP/2.0 is slightly bigger than HTTP/1.1, and HTTP/1.1 is slightly bigger than HTTP/1.0. My guess that HTTP/2.0 and HTTP/1.1 send more raw bytes due to bytes relating to secure stuff.