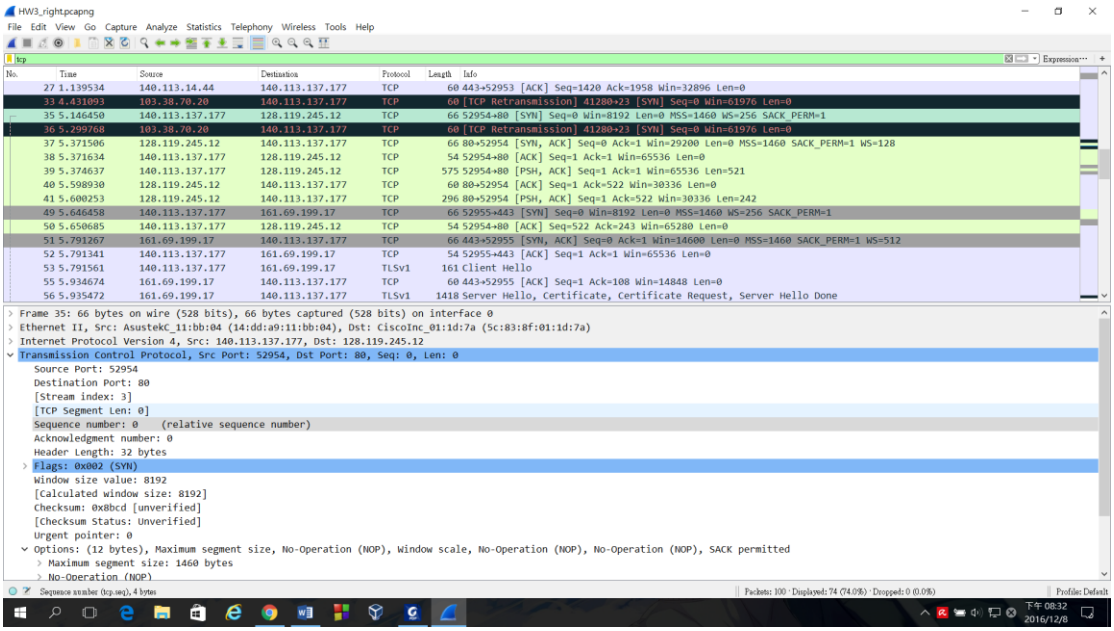
1. IP address：140.113.137.177

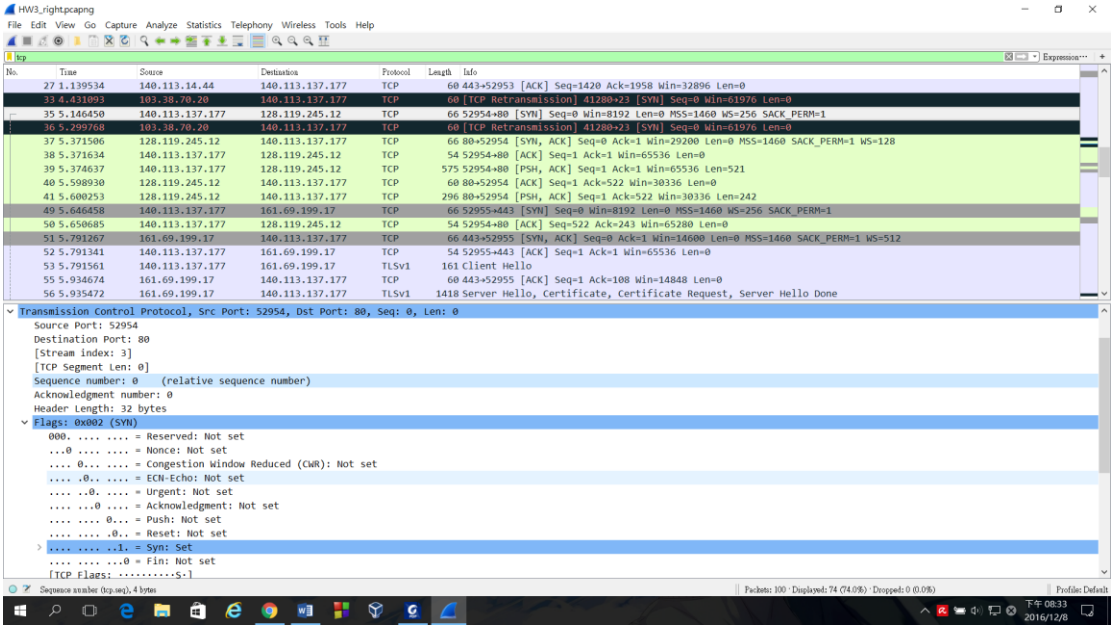
   IP port：52954

2. IP address：128.119.245.12

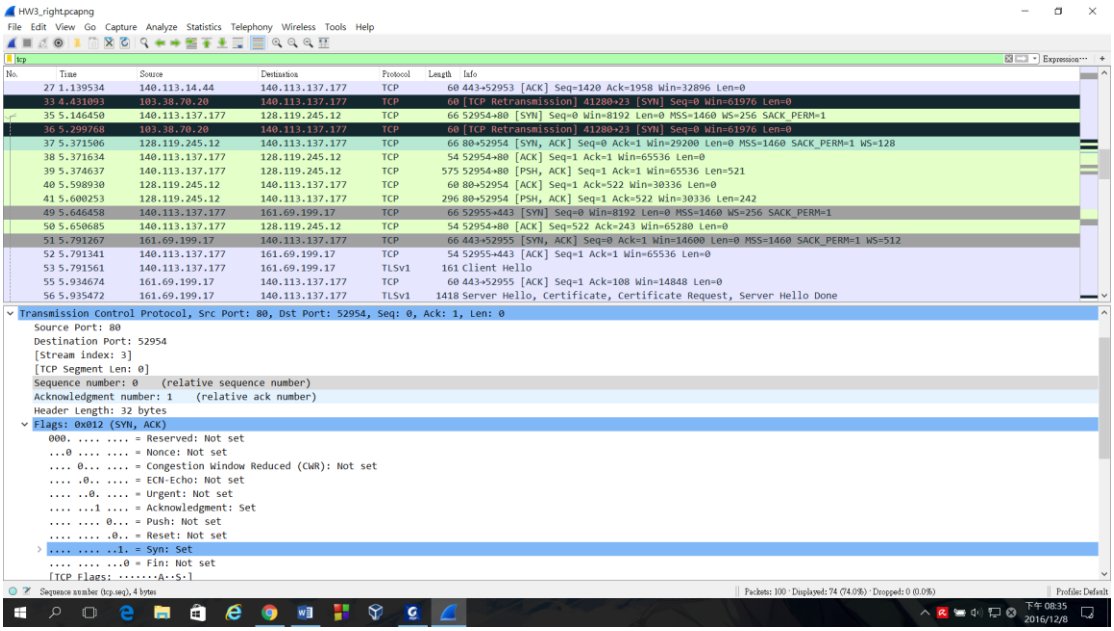
   IP port：80



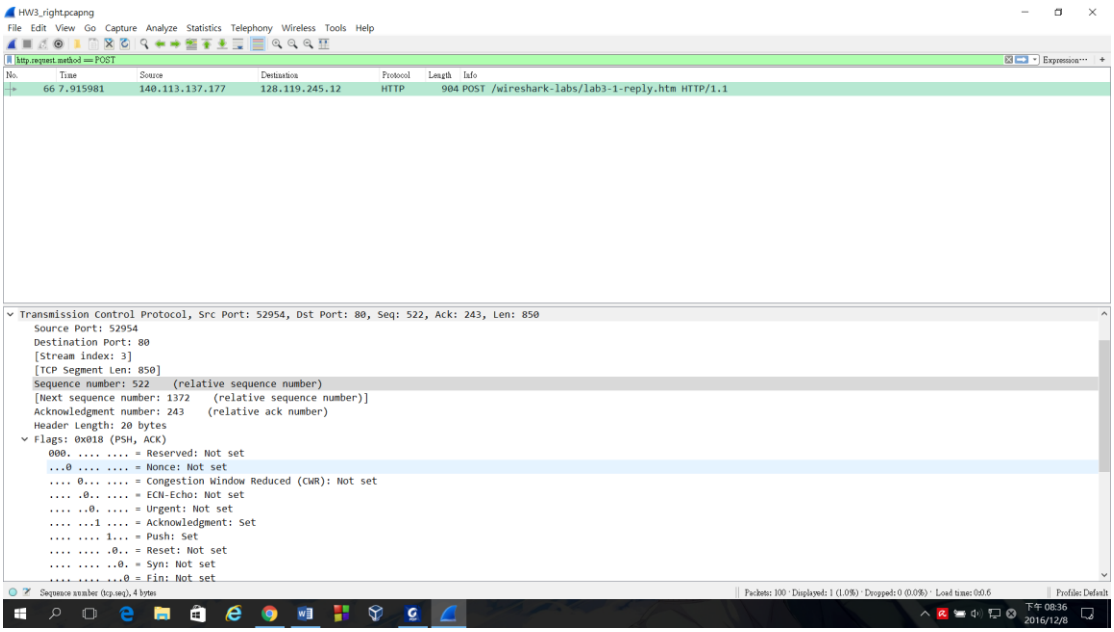
3. 0，the Syn flag is set to 1 and this identifies the segment as a Syn segment.



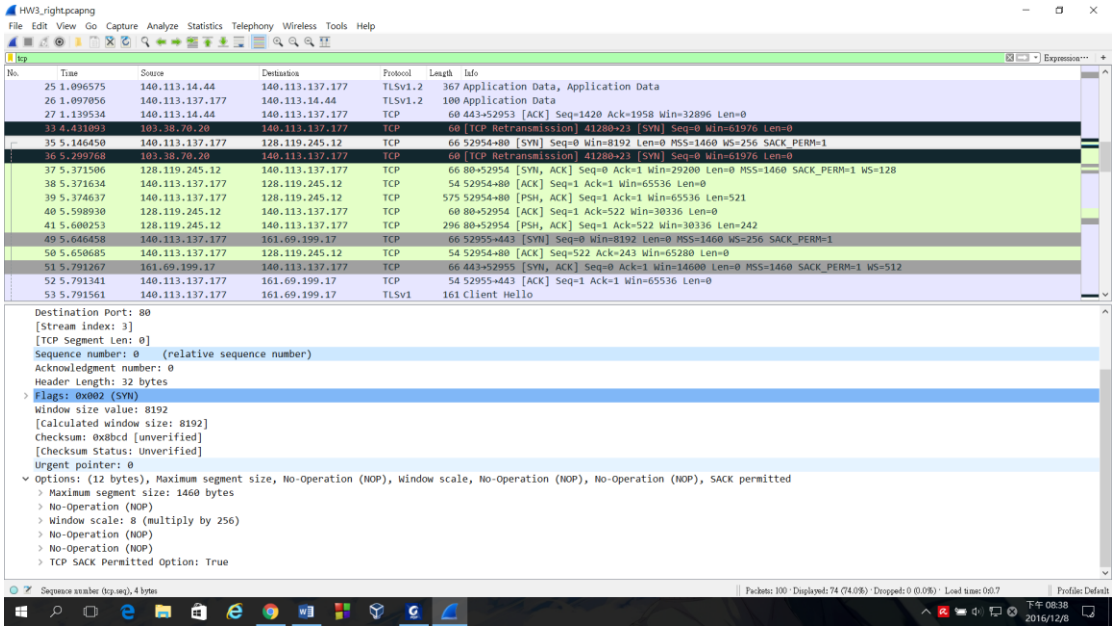
4. 1，the Syn flag and the Acknowledgment flag are both set to 1 and this identifies the segment as a Syn-Ack segment.



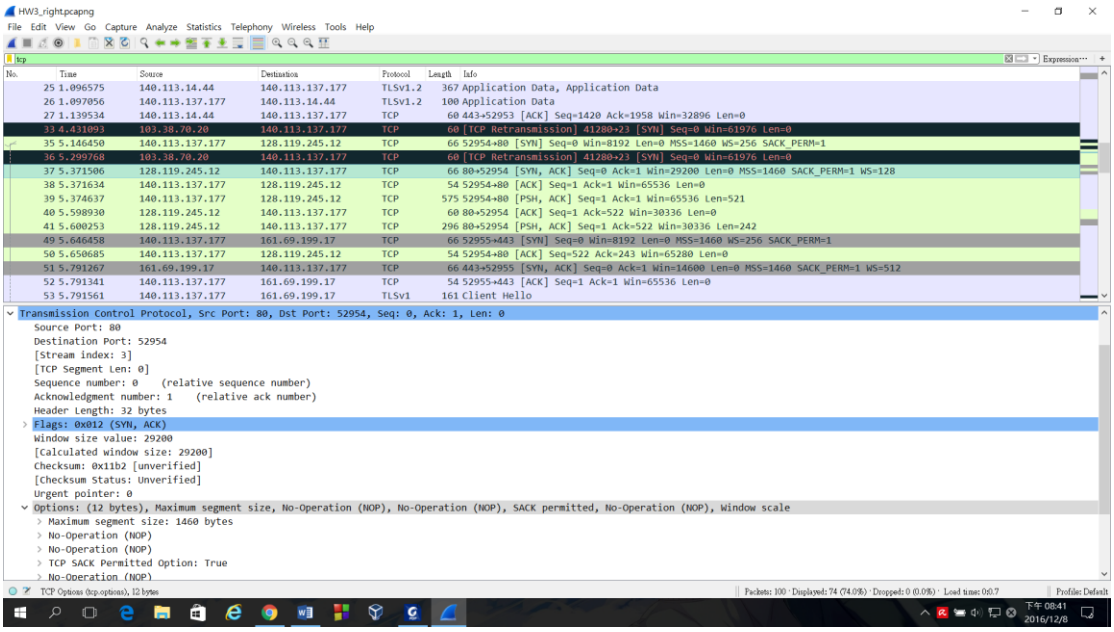
5. 522



6. 1460 bytes



7. 29200 bytes



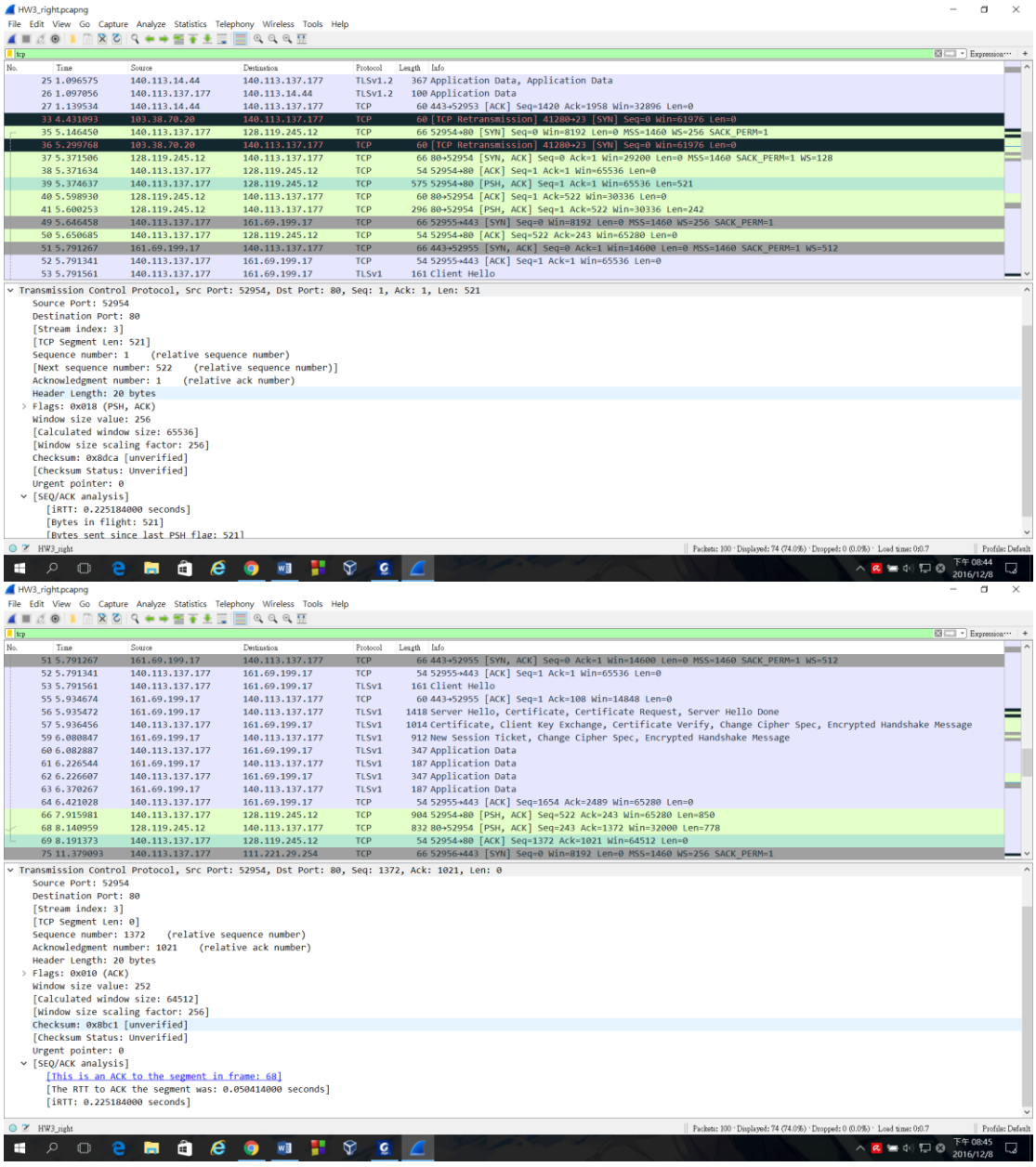
8. Total amount data transmitted：

the acknowledgment number of the last segment – the sequence number of the first segment = 1021 – 1 = 1020 bytes

Total transmission time：

8.191373 – 5.374637 = 2.816736

1020 / 2.816736 = 362.121264 bytes/sec



加分題：1.因為 data 大於 MMS 的大小，故 TCP 要分段送出去

2. the host uses two tuple (destination id and destination port) and sequence number to identify the TCP segments which belong to same application message.

心得：這次的實驗主要是在了解 TCP 的運作方式，透過這次的實驗我對上課所教的東西更有實感，不會只有抽象的觀念而已，有種我在運用上課所學的感覺。網路這種東西比想像中還要複雜，簡單的上傳資料就需要透過很多次的來回聯絡，之前可能只是覺得：喔這樣啊。 做完這次作業，對於這種東西的複雜度更加了解，也對於創立 protocol 的人更感佩服了。