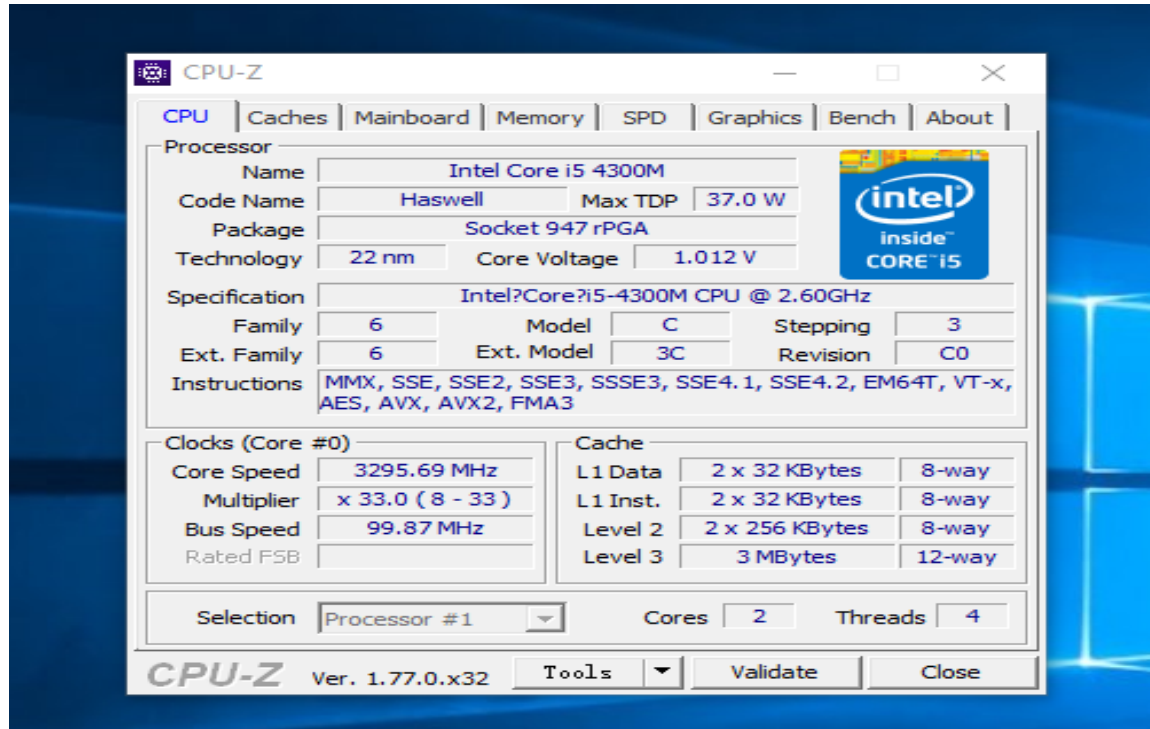


## Cache Structure Information & Exercise 4.8

Chao Chen

1.



2. a). tag: 8 bits  
line number: 5 bits  
byte number: 3 bits

b). 0001 0001 0001 1011      line 3  
1100 0011 0011 0100      line 6  
1101 0000 0001 1101      line 3  
1010 1010 1010 1010      line 10

c). 0001 1010 0001 1010 is from block number 0 0011 0100 0011

So the other bytes in this block should be:

0001 1010 0001 1000 ~ 0001 1010 0001 1111

d). 8bytes \* 32 lines = 256 Bytes

e). The tag is necessary to identify the specific block number in main memory of the current line.

