Solution Doc

Question 2

- a) The addition operation (sum +=) where we add our product from usi] * vsi] to our temporary registier, sum. The reason this operation cannot be parallelized is because it requires the previous value in som in order to perform the += operation.
- b) As it is currently uvritten, the pest-case CPE four our function is 5. This is because our functions longest CPE is a floating point multiplication. Float multiplication latency is 5, so that is our best case CPE.
- c) code project

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.000003

the function inner2() is faster. The function call speed can be seen in this graph:

.004781 * = inner() = inner2() ,000034 J.000048 -.003334

-000001-1:000,000 10,000 # elements