

Computer Organization Project 2 – MIPS Assembly 2

Due: 23:55, March. 24, 2021

Vector is a fundamental concept in Mathematics, Physics, and Engineering. With both magnitude and direction, vectors are identified with a tuple, or list of numbers. In this project, you are required to implement three primitive functions: vector addition (denoted $A+B$), vector subtraction (denoted $A-B$), and dot product (denoted $A*B$). There are two input vectors A and B. Each vector contains 8 integer elements separated by commas. The values of integer elements in A and B are between -9 and 9.

Please submit your source code according to the following rules:

- 1- Write down enough comments such that you would receive higher scores.
- 2- The filename is your student ID (e.g., B12345678.asm).

Example:

Please input vector A:

1,2,3,4,5,6,7,8

Please input vector B:

2,0,1,3,0,3,2,0

$A+B = (3,2,4,7,5,9,9,8)$

$A-B = (-1,2,2,1,5,3,5,8)$

$A*B = 49$