

Assignment 4

Objective: To implement a C/C++ program to multiply two matrices.

Brief Theory: Consider two matrices X and Y of size $N \times N$. Split matrices A and B into four sub-matrices each with dimensions $N/2 \times N/2$. Proceed to compute the desired values of their product recursively.

Task: Write a program using the above straightforward Divide&Conquer method that takes the dimension as well as the element of the matrix and print the product matrix as output of the matrices.

Apparatus and components required: Computer with C or C++ Compiler and Windows operating platform.

Experimental/numerical procedure: Coding, compilation, editing, run and debugging.