## Introduction

To study the processor performance when accessing large amounts of data, we will use matrix multiplication because we can escalate in n2 the quantity of numbers and operations that the processor have to do.

## Problem Description and Algorithms Explanation

#### Matrix Multiplication

To resolve the problem we will use 3 different algorithms in 2 different programming languages (C++ ant Python).

#### Algorithms Used

Basic – We calculate every final cell of the matrix

Line – We calculate and save the values by a line of the second matrix doing this for all line

Block – We divide the matrix in blocks and calculate the values in blocks

## Performance Metrics

## Results and Analysis

We will compare the differences between 2 python algorithms, python and C++ performance, 3 C++ algorithms and block size difference.

#### Python Algorithms

Chart, line chart

Description automatically generatedWe can observe that Line algorithm is better than Basic Algorithm.

## Conclusions