

Assignment 3

Name: _____

Direction: Upload your typed solutions in a file named “assignment03.txt” to your Github account.

1. Explain Moore’s Law.
2. List and briefly define two of the techniques used in contemporary processors to increase speed.
3. Write a C++ function that takes a ifstream reference as a parameter. Given that the ifstream paramater references a file consisting of positive integers, the function returns the geometric mean of the values in the file, which is

$$\text{GM} = \sqrt[n]{x_1 \times \dots \times x_n} = \left(\prod_{i=1}^n x_i \right)^{1/n}$$