

TP3: Parallel Programming with OpenMP

Exercise 1 :

- Write a program that opens a parallel region in which each thread prints its ID and the total number of threads exist.
- Then, in the same parallel region, display "Hello World" by a single thread (master).
- Try to vary the number of threads by various ways.

Exercise 2 :

- Write a program that computes the sum of an array A of dimension N by using a shared variable then the “reduction” clause.
- Compare the execution time of the performed implementations when additional threads are added.

Exercise 3 :

- Write a program with OpenMP that computes the minimum and maximum values of a vector of dimension N .