**OpenMP Exercises**

Implement and suitably modify the proposed code in the exercises.

For each exercise:

1. Check the threads that are \*really\* available on your machine (OPM\_THREADS\_NUM, etc).

2. Insert functions for calculating the execution time.

3. Change the number of threads at the output.

4. Check the correctness of the results and the execution time when varying the number of considered threads and dimensions of data structures.

5. Write a program that for each element of a bi-dimensional matrix computes the value:

A[i][j] = (4\*i)5 + 5\*(j-i)4

(or some other “complicated” computation)

6. Where necessary, consider/modify the workshare (schedule) constructs trying various types (static, dynamic, etc) and chunksize.

Take timings!