**Assignment B**

### CODE PERFORMANCE WITH FIXED #WORKERS

## **WORKERS**

8 MPI tasks + 8 omp\_threads on 2 gpu nodes with 12 cpu each:

* no --subscription or time sharing;
* --mca pml ucx --mca btl tcp,self --map-by node (openfabric gives some warnings and lower performance?);
* export OMP\_PLACES=threads.

## **PERFORMANCE INDEX**

* **WALL-CLOCK TIME**: measured by the MPI\_Time() routine, which is called from the ROOT MPI-TASK, since it has to deal, also, with the serial parts of the code.

## **ASSESSMENTS**

* N grows choosen multiple of 2 in order to keep work-balance, Np = 100 in each run with random positions and R = N, average on 1000 values;
* Np grows from 1 to 500 with step 10, N = 10, average on 100 values;

**Graphs** are showed in the next page…

