

HW-OpenMP-Good Performance

Using the techniques discussed in the lecture “OpenMP Good Performance” to increase the performance of your k-means code.

Consider about the following facts:

1. False sharing: Does your code has potential false sharing problem?
2. Cache locality
3. Coarse grain model
4. Loop fusion, loop fission, loop collapse
5. Use dynamic for load balancing
6. Minimize barriers

Compare the performance of your code with previous code. And does your code scale well?

Write a report about all the improvements you made.

Upload your report and source code to Canvas.