Homework 9

There are two tasks in homework 9. Both tasks will be carried out at Huawei Cloud.

1. The first lab is to run parallel computation of the Weather Research and Forecast (WRF) Model on Kunpeng Bare Metal Server (BMS). The manuals for the lab has been provided at <https://lab.huaweicloud.com/testdetail_431>. In this lab, you will learn how to compile and run WRF, and the methods to optimized the performance. Please write down your comments to the lab.
2. The second lab is to run the parallel computation for the matrix multiplication (C=A\*B). All matrices have the same dimensions of N\*N. Please write the code according to what you have learnt in the class and in the lab. Please write a very short report to show the results of the parallel computation. Different matrix dimensions should be explored.

1. 第一个实验室是在鲲鹏裸机服务器（BMS）上运行天气研究和预测（WRF）模型的并行计算。 实验室手册已在https://lab.huaweicloud.com/testdetail\_431上提供。 在本实验中，您将学习如何编译和运行 WRF，以及优化性能的方法。 请写下您对实验室的意见。

2. 第二个实验是运行矩阵乘法的并行计算（C=A\*B）。 所有矩阵都具有相同的 N\*N 维数。 请根据您在课堂和实验室中学到的知识编写代码。 请写一个非常简短的报告来显示并行计算的结果。 应该探索不同的矩阵维度。