INSERTION SORT CONCLUSION

In serial, Pthread and OpenMP environments, after compiling the insertion sort algorithm for different data sets given 10000, 20000, 50000, 100000 and 200000 items, we can conclude from the results that the OpenMp environment takes the least time To perform sort insertion, because it allows you to divide the work into multiple threads relatively easily, and has the advantage of cross-platform, and is simpler for some operations. It handles threads in a different way because it provides you with higher-level threading options, such as parallelization of loops, etc.

In contrast, Serial and Pthread sort time is longer than the OpenMP environment, and Serial takes the longest time. Therefore, compared with Pthread, serial programming is more time-consuming because it sends data one at a time through the communication channel.

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