

HPCG

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1 Select parameters

1.1 Number of processes

Since the number of CPU slots in my computer is 1, the number of physical cores is 6, and the number of logical cores is 12, according to the SJTU HPC Docs, my parameters are adjusted as follows:

- 1 MPI thread
- -np 2

My computer will report an error when the number of running processes is 4 or 6, so the final number of processes selected is 2.

During the test, because the problem size in the hpcg.dat file downloaded during installation was 104 and the running time was 60, I started testing from the problem size of 160.

- problem size = 160

According to HPCG official requirements, the running time is greater than 1800s to be effective, so my running time is 1800.

- run time = 1800

See submission documents for final test files.

1.2 Reference

HPCG installation and configuration reference

- <https://www.cnblogs.com/zhyantao/p/10614243.html>

HPCG test parameter selection reference

- <https://docs.hpc.sjtu.edu.cn/app/benchtools/hpcg.html>