Lab8

Environment

- CPU:AMD Ryzen 7 6800H with Radeon Graphics
- Cores:8
- 频率:3.2GHz
- avx指令集版本:avx2
- 内存:16GB

CPU GFLOPS

• GFLOPS = 8 * 3.2 * 4 * 2 * 2 = 409.6

Software environment

- OS:5.15.153.1-microsoft-standard-WSL2
- Open MPI:4.1.2

Parameter optimize

- N值的选择: $N_s^2 * 8 = 1024 * 1024 * 1024 * 14 * 1 * 0.8$
 - 。 得到 $N_s = 38771$
- NBs的选择:从32,64,128,256,512中选择
 - o 512
- P与Q:由于环境问题,选择1,1

Result

```
GFLOPS_{max} = 279.87
\gamma = \frac{279.87}{409.6} * 100\% = 68.33\%
```