## 高性能应用计算实践 2024 秋 王一鸣 2023311510

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Linux DESKTOP-PMS5CUE 5.15.153.1-microsoft-standard-WSL2 #1 SMP Fri Mar 29 23:14:13 UTC 2024 x86\_64 x86\_64 x86\_64 GNU/Linux

Ubuntu 22.04.3 LTS

gcc version 11.4.0 (Ubuntu 11.4.0-1ubuntu1~22.04)

Intel(R) Core(TM) i7-10750H CPU @ 2.60GHz

Memory for Linux: 8GB

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原输出:

- -4.000000 11.000000 0.000000 11.000000 -9.000000 5.000000 8.000000 5.000000 6.000000 现输出:
- -4.000000 11.000000 0.000000 11.000000 -9.000000 5.000000 8.000000 5.000000 6.000000 无区别

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	256	1024	4096	8192
cblas_dgemm	0.009393 s	0.035731 s	1.186805 s	8.587000 s
duration				
naive_dgemm	0.109554 s	10.573366 s	1561.860961 s	12605.838294 s
duration				
cblas_dgemm	7.144561	120.202829	231.611686	256.087488
gflops	GFLOPS	GFLOPS	GFLOPS	GFLOPS
naive_dgemm	0.612564	0.406206	0.175994	0.174445
gflops	GFLOPS	GFLOPS	GFLOPS	GFLOPS

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疑问: 为什么随着数据量的增加, naïve 方法的 gflops 明显降低