

note of experiment in week12

zxp

November 30, 2024

1 environment

cpu: Intel(R) Xeon(R) Gold 6330 CPU @ 2.00GHz (56 cores were applied)

gpu: rtx3090(a piece was applied)

System: CentOS7

Compiler: 9.5

2 Experiment

(1)The global function is a kernel function that is executed on the GPU and called on the CPU. The device function is a function called and executed on the GPU side. host defines a function that is executed on the host side and called on the host side.

This week is mainly to run im2win with different parameters to test its correctness and speed, the results are attached

2.1 Analysis

The difference in gflops between different parameters is quite obvious. Many layers being 2,000 gflops faster than the previous, and there is still a lot of thing to test. However, there is still a large gap compared to cudnn's fastest method. needs to be continued, but only this may cannot faster cudnn