

# note of experiment in week2

zxp

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## **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 code**

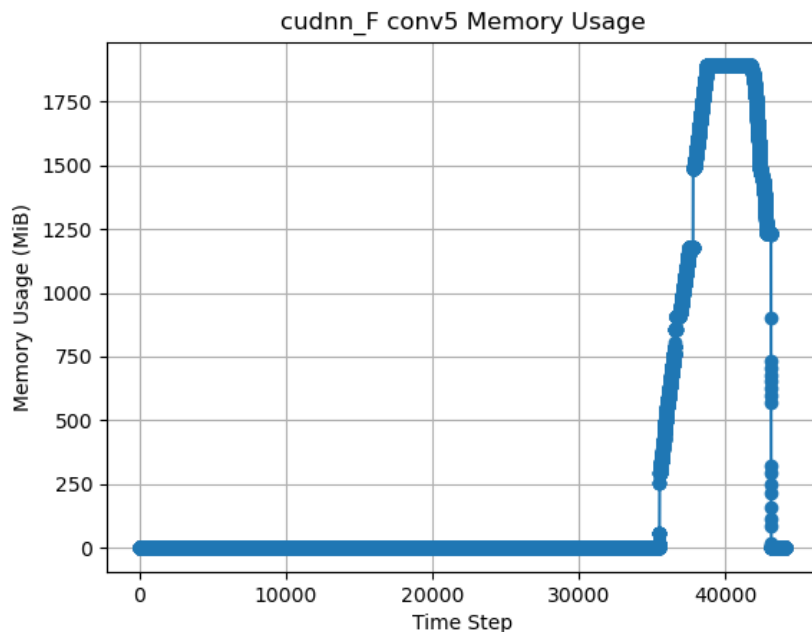


Figure 1: memory

### 3 Experiment

This week is mainly to test the memory usage of cudnn seven algorithms (using cudnn in libtorch), batch is set to 128, the code is the same as last week, the method of testing is the same as last week, and the results are shown in the attached excel.

The following figure is to measure the memory transformation trend of one layer (conv5) of an algorithm (FTT in cudnn).

#### 3.1 Analysis

Check the code, feel also need to change, initialization times are too many, do not know will not memory leakage. Then prepare to separate im2win's core from libtorch.