

week-9

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1 INTRODUCE

There are three main tasks for this week:

- Organize the code for HPEC and upload it, then complete the README.md file.
- Attempted to call different algorithms in CUDNN and tested the results with batch size of 128, 256 and 512.
- After obtaining different algorithms, two graphs were compiled. One graph is divided into 12 small graphs, with the horizontal axis representing different algorithms in CUDNN. Each algorithm has three columns representing different batches. The other graph only displays the results of batch 128, with the horizontal axis representing conv1 to conv12, and each column representing a different algorithm.

2 experiment

- algo_0: FFT
- algo_1: FFT_TILING
- algo_2: GEMM
- algo_3: IMPLICIT_GEMM
- algo_4: IMPLICIT_PRECOMP_GEMM
- algo_5: WINOGRAD
- algo_6: WINOGRAD_NONFUSED

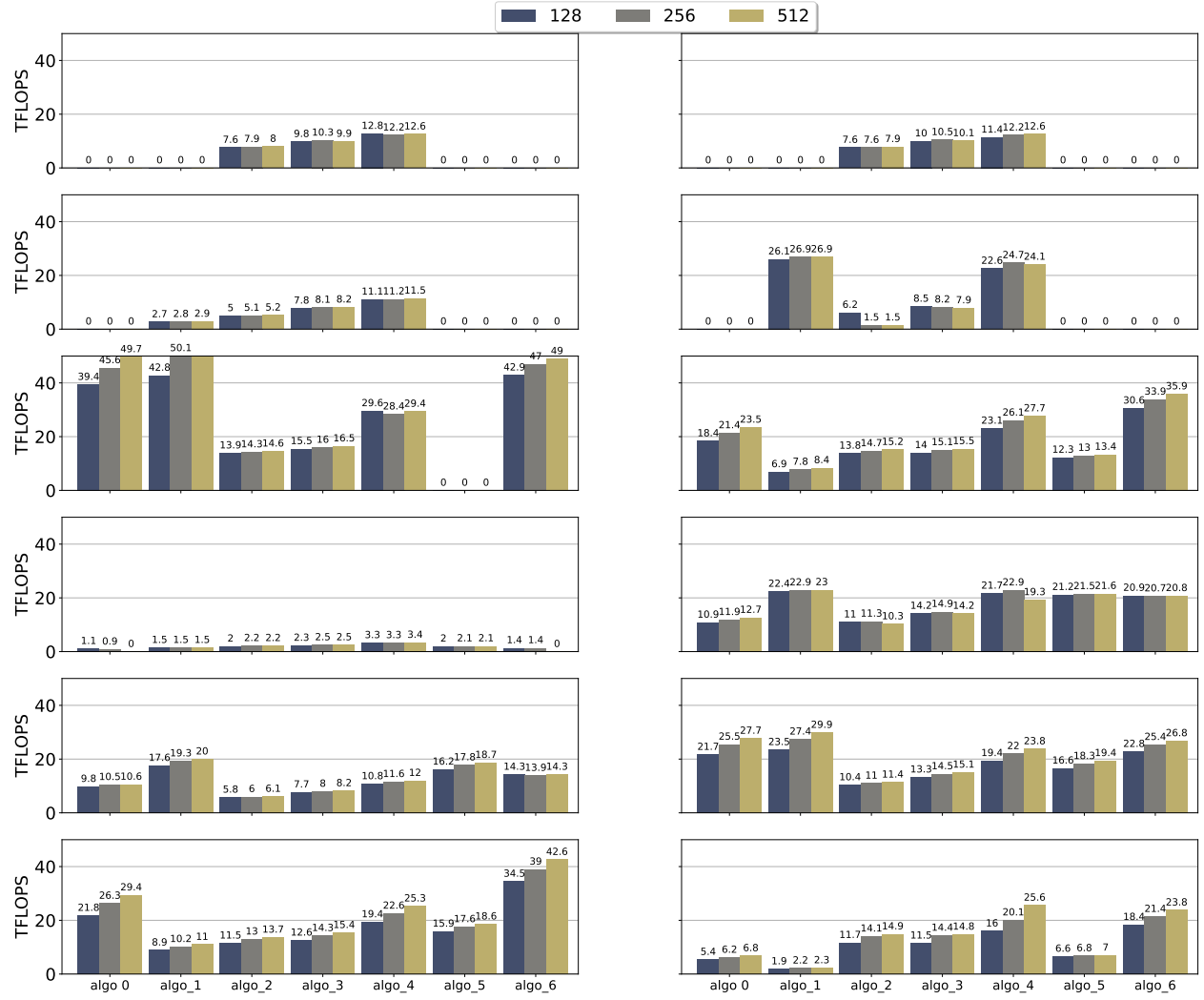


图 1: TFLOPs1

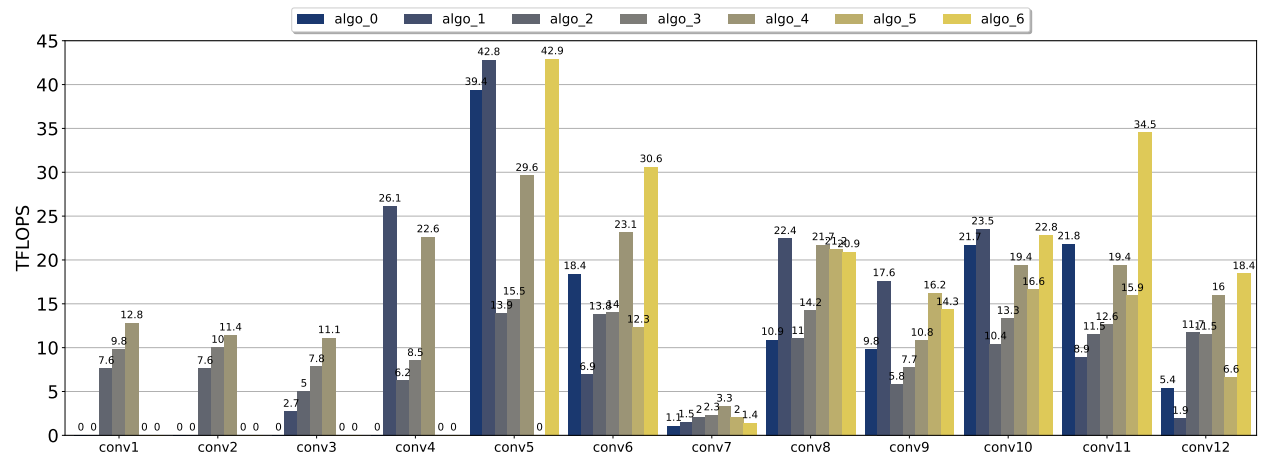


图 2: TFLOPs1