

# note of 《AutoFFT: A Template-Based FFT Codes Auto-Generation Framework for ARM and X86 CPUs》

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## 1 content

AutoFFT: A Template-Based FFT Codes Auto-Generation Framework for ARM and X86 CPUs is a 19 year old paper on FFT on cpus. The core of the paper is to automatically generate high-performance FFT convolution at compile time, and to give a set of templates to disassemble large latitudes. And the object of comparison in this paper is other highly optimized FFT libraries, such as Intel's MKL, without comparing other convolution methods. Two of the templates proposed in the paper are based on prime numbers, and the other is based on the capital of 2. And the paper gives how to calculate the floating point number of FFT.

## 2 Feelings

This paper has a more detailed introduction to the use of high-performance cores when the latitude is relatively large, and you can refer to this time-sharing