Abstract

The fast fourier transform (FFT) is an important technique for image compression, digital signal processing and communication especially for application in multiple input multiple output OFDM system. The fast fourier transform are good algorithm and computed discrete fourier transform (DFT). In this paper, the comparison study of various FFT algorithm and compare all them. FFT algorithm is divided into two part i.e. decimation in time (DIT) and decimation in frequency (DIF). In DIT algorithm firstly computed multiplier then adder but in DIF firstly computed adder then multiplier. In this paper we study of different types of multiplier i.e. array multiplier; sing multiplier (Baugh Wooley) and complex multiplier. In proposed complex multiplier is consuming three multipliers. In further work in my dissertation in design to 8-point, 16-point, 32-point, 64-point and 128-point radix FFT algorithm in different multiplier.

References

1. Pramod Kumar Mehe, Basant Kumar Mohanty, Sujit Kumar Patel, Soumya Ganguly, and
Comparison Study of DIT and DIF Radix-2 FFT Algorithm


Index Terms

Computer Science

Algorithms

Keywords

FFT, Decimation in Time, Decimation in Frequency, real Value data