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论文

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高速矢量处理机的设计与实现

王俊, 毛士艺, 刘祥林

北京航空航天大学电子工程系 北京 100083

DESIGN AND ACCOMPLISHMENT IN A HIGH SPEED VECTOR PROCESSOR

WANG Jun, MAO Shi-yi, LIU Xiang-lin

Department of Electronic Engineering, Beijing University of Aeronautics and Astronautics, Beijing 100083, China

摘要

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摘要 为了满足海量实时处理需求,利用 Butterfly DSP公司的 BDSP9124/9320矢量数字信号处理 (Digital Signal Processing, DSP) 芯片组,设计和实现了一种高速矢量处理机,并给出了该矢量处理机的设计思想和性能指标。最后说明该处理机在合成孔径雷达 (Synthetic Aperture Radar, SAR) 脉冲压缩和其它领域的应用。

关键词: 实时 矢量处理 DSP FFT SAR

Abstract: This paper studied and accomplished a high speed vector processor. The main component of the processor is a special Digital Signal Processing (DSP) chip set BDSP9124/9320, which is produced by Butterfly DSP Inc. The processor could be applied to Synthetic Aperture Radar (SAR) and other fields which require real-time calculating FFT, correlation, convolution, and other vector processing.

Keywords: real-time vector processing DSP FFT SAR

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