

**Pelz, Richard B.**

**Parallel compact FFTs for real sequences.** (English) Zbl 0784.65108

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Parallel algorithms for the fast Fourier transform are given to use the SIMD- and MIMD-type multiprocessors with distributed memories. These algorithms are of the in-place type and used for the transformation of real and conjugate-symmetric sequences with minimal communication costs. Values of the computational complexity are less than  $5N/2P \log_2 N$ .

Reviewer: [Y.Kobayashi \(Tottori\)](#)

**MSC:**

[65T50](#) Numerical methods for discrete and fast Fourier transforms

[65Y05](#) Parallel numerical computation

[65Y20](#) Complexity and performance of numerical algorithms

Cited in 1 Document

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[parallel algorithms](#); [fast Fourier transform](#); [multiprocessors](#); [minimal communication costs](#); [computational complexity](#)

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