

**Gopalaswamy, N.; Akay, H. U.; Ecer, A.; Chien, Y. P.**

**Parallelization and dynamic load balancing of NPARC codes.** (English) Zbl 0909.76061

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We present parallelization and dynamic load balancing of the two-dimensional and three-dimensional NPARC flow codes. A previously developed parallel database package, GPAR, and a dynamic load balancer program, DLB, are used for both the two-dimensional and three-dimensional versions of NPARC. Performance characteristics of the implemented algorithms in two-dimensional and three-dimensional internal flow configurations are explored on an engine inlet configuration.

**MSC:**

**76M20** Finite difference methods applied to problems in fluid mechanics

**65Y05** Parallel numerical computation

Cited in 1 Document

**Keywords:**

parallel database package GPAR; dynamic load balancer program DLB; engine inlet configuration

**Software:**

NPARC

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