



Performance Tuning of Scientific Applications (Chapman & Hall/CRC Computational Science)

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With contributions from some of the most notable experts in the field, **Performance Tuning of Scientific Applications** presents current research in performance analysis. The book focuses on the following areas.

Performance monitoring: Describes the state of the art in hardware and software tools that are commonly used for monitoring and measuring performance and managing large quantities of data

Performance analysis: Discusses modern approaches to computer performance benchmarking and presents results that offer valuable insight into these studies

Performance modeling: Explains how researchers deduce accurate performance models from raw performance data or from other high-level characteristics of a scientific computation

Automatic performance tuning: Explores ongoing research into automatic and semi-automatic techniques for optimizing computer programs to achieve superior performance on any computer platform

Application tuning: Provides examples that show how the appropriate analysis of performance and some deft changes have resulted in extremely high performance

Performance analysis has grown into a full-fledged, sophisticated field of empirical science. Describing useful research in modern performance science and engineering, this book helps real-world users of parallel computer systems to better understand both the performance vagaries arising in scientific applications and the practical means for improving performance.

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