

1. Record Nr.	UNISA996465849003316
Titolo	Parallel Computation [[electronic resource] ] : Third International ACPC Conference with Special Emphasis on Parallel Databases and Parallel I/O, Klagenfurt, Austria, September, 23 - 25, 1996, Proceedings / / edited by Laszlo Böszörményi
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1996
ISBN	3-540-70645-3
Edizione	[1st ed. 1996.]
Descrizione fisica	1 online resource (XIII, 243 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 1127
Disciplina	004/.35
Soggetti	Computer programming Architecture, Computer Operating systems (Computers) Software engineering Algorithms Database management Programming Techniques Computer System Implementation Operating Systems Software Engineering Algorithm Analysis and Problem Complexity Database Management
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Flexibility and performance of parallel file systems -- Study of data distribution strategies for parallel I/O management -- An experimental evaluation of the parallel I/O systems of the IBM SP and Intel Paragon using a production application -- Switcherland — A scalable interconnection structure for distributed computing -- Performance aspects of virtual circuit connections over a local ATM network -- New results of the salzburg NTN-method for the radon transform -- Parallel computation of optimal parameters for pseudo random number

generation -- Parallel evaluation of multi-join queries -- Skew handling in the DBS3 parallel database system -- Dynamic declustering methods for parallel grid files -- Encapsulation of intra-operator parallelism in a parallel match operator -- Synthetic workload generation for parallel processing systems -- Parallel program visualization with MUCH -- Statement-sets -- Heuristics to optimize the speed-up of parallel programs -- Vectorization of visualization algorithms — A practical example -- Parallel chaotic iterative algorithms for image reconstruction with limited projection data -- Digital's TruCluster architecture -- The parastation project -- PPARDB / PVM: A portable PVM based parallel database management system -- A new language for automatic data generation -- Horizontal fragmentation in distributed object database systems -- Implementing snapshot protocol for message based communication libraries -- A/D graphs — A data structure for data dependence analysis in programs with pointers -- A partition method for solving block pentadiagonal linear system on intel hypercube iPSC/860 -- Parallel image processing by using homogeneous computing structures.

---

### Sommario/riassunto

This book constitutes the refereed proceedings of the Third International Conference of the Austrian Center for Parallel Computation, ACPC '96, held in Klagenfurt, Austria, in September 1996. The 15 revised full papers presented together with two keynote contributions were selected from 31 submissions by authors from 13 countries. Also included are two industrial papers and six posters. The topical emphasis of the book is on parallel databases and parallel input/output aspects; however also other topics are addressed, like parallel hardware, parallel numerics, parallel languages, and tools and algorithms.

---