

Multiprocessing in Meteorological Models

Edited by G.-R. Hoffmann and D. F. Snelling



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Multiprocessing In Meteorological Models

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Joubert, F. J. Peters**



Multiprocessing In Meteorological Models:

Multiprocessing in Meteorological Models Geerd-R. Hoffmann, David F. Snelling, 2012-12-06 Numerical weather prediction on the one hand needs a very large number of floating point calculations but on the other hand is very time critical Therefore the largest computers available i e the supercomputers have usually been acquired by the national meteorological services long before they were used in other fields of research or business Since the available technology limits the speed of any single computer parallel computations have become necessary to achieve further improvements in the number of results produced per time unit This book collects the papers presented at two workshops held at ECMWF on the topic of parallel processing in meteorological models It provides an insight into the state of the art in using parallel processors operationally and allows extrapolation to other time critical applications It also shows trends in migrating to massive parallel systems in the near future *The Meteorological Magazine* ,1989 Papers Presented at Powerful Computing Systems for Fluid Flow Applications, London, UK, 7-8 June 1988 ,1988 **Annual Scientific Report** National Center for Atmospheric Research (U.S.),1989 **Effect of Slowed Barotropic Dynamics in Parallel Ocean Climate Circulation Models** Michael Tobis,1996 **Vector and Parallel Computing** J. J. Dongarra,1989 Vector and parallel computing is a fast expanding area of computing science of relevance to many companies engaging in research into the commercial viability of parallel computing This volume collates the latest research findings in this area **Directory of Published Proceedings** ,1996 Computer Modelling in the Environmental Sciences D. G. Farmer, Michael J. Rycroft,1991 Provides a cross section of current practices in computer modelling in the environmental sciences Many of the topics are relevant to matters of topical public concern global atmospheric effects and world climate oceanographic phenomena and coastal flooding pollution dispersal and acid rain *Physics Briefs* ,1988 *Index of Conference Proceedings* British Library. Document Supply Centre,1988 *Parallel Computing 89* David J. Evans, Gerhard Robert Joubert, F. J. Peters,1990 This book is the result of the first conference organized under the auspices of the Parallel Computing Society the only independent international forum where researchers manufacturers and users of parallel computers can exchange expertise and experience in the development and use of all types of systems The emphasis is on applications of parallel computing In addition to papers discussing the development of new algorithms for and applications of various types of parallel computers an overview of the newest developments regarding parallel computer hardware and software is given **Subject Guide to Books in Print** ,1993 **Bibliographic Guide to Conference Publications** New York Public Library. Research Libraries,1989 Vols for 1975 include publications cataloged by the Research Libraries of the New York Public Library with additional entries from the Library of Congress MARC tapes *Scientific Applications of the Connection Machine* Horst D. Simon,1990 Proceedings Parallel Computing On the Use of Multiprocessing Computers for Global Numerical Weather Prediction Ross N. Hoffman, T. Nehr Korn, ATMOSPHERIC AND ENVIRONMENTAL RESEARCH INC CAMBRIDGE MA.,1989 A preliminary

exploration is made of the uses of multiprocessing computers for large scale NWP using spectral models In general if global communication between processors is relatively fast and easy then implementing spectral models is feasible The global spectral model is recast in terms of latitude and wavenumber tasks This approach has a number of advantages The entire algorithm is macrotasked Only a handful of crucial pointers need to be locked The spectral transform calculations are localized so that arithmetic always follows the same ordering and all results are exactly reproducible The latitude wavenumber tasking scheme is implemented and tested on the Sequent Balance a shared memory multiple instruction multiple data device It is argued that this scheme could be easily extended and applied to larger machines of this class and provide a good starting point for distributed memory machines The potential of single instruction multiple data machines is huge A proposed algorithm for this class of machine uses a processor for each horizontal grid point Keywords Numerical weather prediction Multiprocessors Atmosphere models Weather forecasting edc Computer Benchmarks J. J.

Dongarra, Wolfgang Gentsch, 1993 The performance of a computer is a complicated issue and a function of many interrelated quantities These quantities include the application the language the implementation the compiler the architecture and the hardware characteristics The usual method to evaluate the performance is to compose a benchmark of programs This book presents a useful overview on benchmarking Over twenty experts contributed papers on five important topics concerning benchmarking advanced scientific computer systems taxonomy and performance metrics well known standard and application benchmarks compiler benchmarks for parallel computers and benchmarks for database systems *Advanced Topics in Data-flow Computing* Jean-Luc Gaudiot, Lubomir Bic, 1991 **Conference Proceedings**, 1989 Current Geographical Publications University of Wisconsin--Milwaukee. Library, 1988 Acid Precipitation Digest, 1987

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