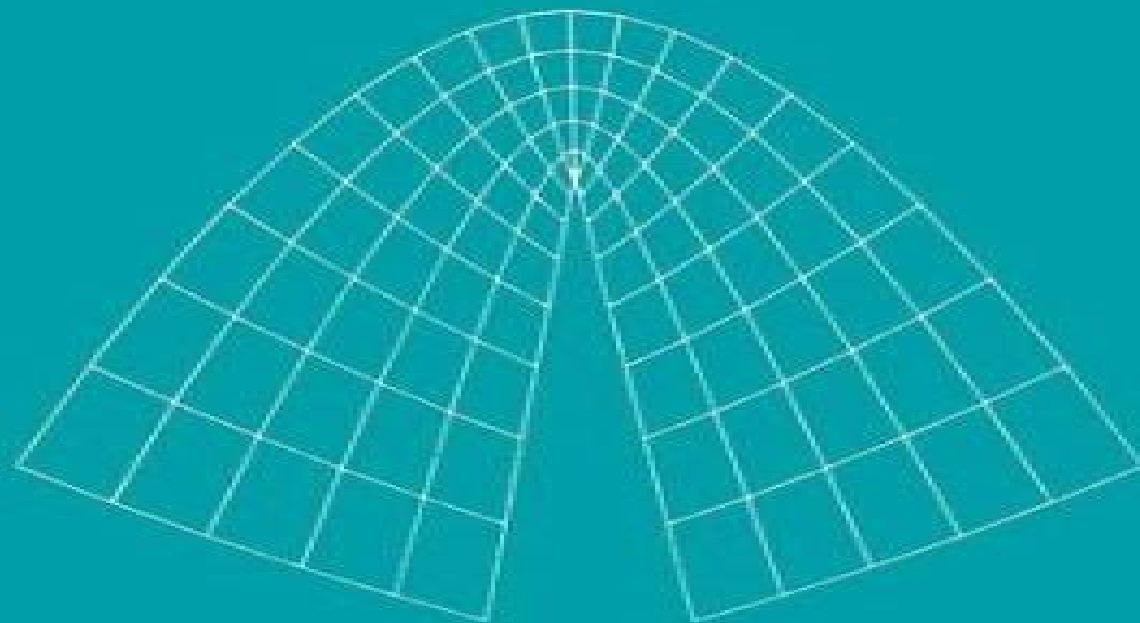


Scientific Computing on Supercomputers II



Edited by
Jozef T. Devreese and Piet E. Van Camp

Scientific Computing On Supercomputers Ii

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Scientific Computing On Supercomputers II:

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Scientific Computing on Supercomputers III J.T. Devreese, P.E. Van Camp, 2013-06-29 The International Workshop on The Use of Supercomputers in Theoretical Science took place on January 24 and 25 1991 at the University of Antwerp UIA Antwerpen Belgium It was the sixth in a series of workshops the first of which took place in 1984 The principal aim of these workshops is to present the state of the art in scientific large scale and high speed computation Computational science has developed into a third methodology equally important now as its theoretical and experimental companions Gradually academic researchers acquired access to a variety of supercomputers and as a consequence computational science has become a major tool for their work It is a pleasure to thank the Belgian National Science Foundation NFWO FNRS and the Ministry of Scientific Affairs for sponsoring the workshop It was organized both in the framework of the Third Cycle Vectorization Parallel Processing and Supercomputers and the Governemental Program in Information Technology We also very much would like to thank the University of Antwerp Universitaire Instelling Antwerpen VIA for financial and material support Special thanks are due to Mrs H Evans for the typing and editing of the manuscripts and for the preparation of the author and subject indexes J T Devreese P E Van Camp University of Antwerp July 1991 v CONTENTS High Performance Numerically Intensive Applications on Distributed Memory Parallel Computers F W Wray Abstract **Scientific**

Computing on Supercomputers Matti Vauhkonen, Piet E. Van Camp, 1989 Scientific Computing on Supercomputers J.T. Devreese, P.E. Van Camp, 2012-12-06 The International Workshops on The Use of Supercomputers in Theoretical Science have become a tradition at the University of Antwerp Belgium The first one took place in 1984 This volume combines the proceedings of the second workshop December 12 1985 of the third June 16 1987 and of the fourth June 9 1988 The principal aim of the International Workshops is to present the state of the art in scientific high speed computation Indeed

during the past ten years computational science has become a third methodology with merits equal to the theoretical and experimental sciences. Regrettably, access to supercomputers remains limited for academic researchers. Nonetheless, supercomputers have become a major tool for scientists in a wide variety of scientific fields and they lead to a realistic solution of problems that could not be solved a decade ago. It is a pleasure to thank the Belgian National Science Foundation (NFWO-FNRS) for the sponsoring of all the workshops. These workshops are organized in the framework of the Third Cycle Vectorization, Parallel Processing and Supercomputers, which is also funded by the NFWO-FNRS. The other sponsor I want to thank is the University of Antwerp, where the workshops took place. The University of Antwerp, UIA, together with the NFWO-FNRS, are also the main sponsors of the ALPHA project, which gives the scientists of Belgium the opportunity to obtain an easy supercomputer connection.

Scientific Computing in Chemical Engineering II (Frerichs, Keil, 1999-05-19). The application of modern methods in numerical mathematics on problems in chemical engineering is essential for designing, analyzing and running chemical processes and even entire plants. Scientific Computing in Chemical Engineering II gives the state of the art from the point of view of numerical mathematicians as well as that of engineers. The present volume, as part of a two-volume edition, covers topics such as computer-aided process design, combustion and flame image processing, optimization, control and neural networks. The volume is aimed at scientists, practitioners and graduate students in chemical engineering, industrial engineering and numerical mathematics.

Large-scale scientific computation at the Los Alamos Scientific Laboratory (B. Buzbee, 1978). *Scientific Computing with Automatic Result Verification* (Adams, 1992-12-03). *Scientific Computing with Automatic Result Verification*.

Selected Papers from the Second Conference on Parallel Processing for Scientific Computing (Charles William Gear, Robert G. Voigt, 1987-01-01). *Proceedings Parallel Computing*. SEE *Directory of Awards* National Science Foundation (U.S.). Directorate for Science and Engineering Education, 1989. *Directory of Awards* National Science Foundation (U.S.). Directorate for Science and Engineering Education, 1989.

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