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Preface

The Austrian Center for Parallel Computation (ACPC) is a co-operative research organization founded in 1989 to promote research and education in the field of Software for Parallel Computer Systems. The areas in which the ACPC is active include algorithms, languages, compilers, programming environments, and applications for parallel and high-performance computing systems.

The partner institutions of the ACPC come from the University of Vienna, the Technical University of Vienna, and the Universities of Linz and Salzburg. They carry out joint research projects, share a pool of hardware resources, and offer a joint curriculum in Parallel Computation for graduate and postgraduate students.

The First International Conference of the ACPC took place in Salzburg, Austria, from September 30 through October 2, 1991. The conference attracted more than 130 participants from around the world. Authors from 15 countries submitted 66 papers, from which 28 were selected and presented at the conference. In addition, eight distinguished researchers presented invited papers. The papers from these presentations are contained in this proceedings volume. Based on the quality of the papers presented and the response of the participants, the ACPC has decided to organize a conference every other year. The Second Conference of the ACPC will take place in Vienna in June 1993.

The organization of the conference was the result of the dedicated work of a large number of individuals, not all of whom can be mentioned here. I would like, in particular, to acknowledge the efforts made by the members of the Program Committee, the referees, and the Local Arrangements Committee. The organizational and administrative support from Barbara Chapman, Irmgard Husinsky, Bernhard Knaus, Romana Schiller and Peter Zinterhof was exceptionally valuable.

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