A Bibliography on Parallel Inference Machines

W. BIBEL† AND K. ASPETSBERGER‡
† Technische Universität München, Institut für Informatik, Arcisstraße 21, D–8000 München 2, Federal Republic of Germany, and ‡ Johannes Kepler Universität, Institut für Mathematik, Altenbergerstraße 69, A–4040 Linz, Austria

(Received 10 December 1984)

Introduction

The realisation of a parallel machine for automated theorem proving, logic and functional programming and other types of symbolic computations is a research topic that is currently pursued world-wide. At this early stage, most of the material on parallel machines for symbolic computation is contained in technical reports and proceedings of conferences. This bibliography aims at supporting and challenging future research on this subject area by pointing to most of the existing papers in this field without trying to give any assessment. Some attempt at completeness has been made. However, at this stage, it turned out to be nearly impossible to keep track of all the work at present evolving in the various research groups throughout the world. Therefore, we would like to urge the readers to submit information about other entries that should appear in this bibliography. A list of addenda will be published in the bibliography section in one of the forthcoming issues of this journal. Papers qualifying for this bibliography should meet the following criteria:

— the architecture should be truly parallel (no simulation of parallelism on sequential machines)
— the architecture must be realised in hardware (or, at least, must promise to be realisable in hardware)
— the intended application of the machine should be in the area of symbolic computation in the sense of the word used in this journal.

List of Papers


**Abbreviations Used**

RIKEN: The Institute of Physical and Chemical Research, Wako, Saitama 351, Japan.
IJCAI: International Joint Conference on Artificial Intelligence.
AAAI: American Association of Artificial Intelligence.

We are indebted to the following for providing input to the bibliography: Philippe Jorrand, LIFIA, Saint Martin d'Heres, France; Steve Gregory, Imperial College, London, Great Britain; Ehud Shapiro, The Weizman Institute of Science, Israel; L. O. Hertzberger, University of Amsterdam, The Netherlands; Frank Warren Burton, University of Colorado at Denver, U.S.A.; George E. Lindamood, Burroughs Co. Ltd., Tokyo, Japan; H. Langmaack, F. Simon, Christian Albrechts Universität, Kiel, FRG; Sal Solfo, Chris Maio, Columbia University, New York, U.S.A.; Larry J. Thomas, Burroughs Co. Ltd., Austin Research Center, Texas, U.S.A.

The work has been partially supported by the Österreichischer Fonds zur Förderung der wissenschaftlichen Forschung, project nr. 3896; ESPRIT project 415 subproject F, and a grant from Siemens (Munich) to the University of Linz.