Lecture Notes in Computer Science

Edited by G. Goos and J. Hartmanis

151

R. Piloty M. Barbacci
D. Borrione D. Dietmeyer
F. Hill P. Skelly

CONLAN Report

Springer-Verlag
Berlin Heidelberg New York Tokyo 1983

Authors

Robert Piloty
Institut für Datentechnik, Fachgebiet Rechnerorganisation
TH Darmstadt, Merckstr. 25, 6100 Darmstadt, FRG

Dominique Borrione
IMAG
B.P. 53X, 38041 Grenoble, France

Mario R. Barbacci
Research Computer Scientist
Dept. of Computer Science, Carnegie Mellon University
Pittsburgh, PA 15213, USA

D.L. Dietmeyer
University of Wisconsin Madison
Department of Electrical and Computer Engineering
1425 Johnson Drive, Madison, Wisconsin 53706, USA

Frederick J. Hill
Department of Electrical Engineering, University of Arizona
Tucson, Arizona 85721, USA

Patrick Skelly
3202 West Daily Street
Phoenix, Arizona 85023, USA

CR Subject Classifications (1982): B.5.2, B.6.3, D.3.1, D.3.2, D.3.3, F.3.1, F.3.2, F.4.3

ISBN 3-540-12275-3 Springer-Verlag Berlin Heidelberg New York Tokyo
ISBN 0-387-12275-3 Springer-Verlag New York Heidelberg Berlin Tokyo

Printing and binding: Beltz Offsetdruck, Hemsbach/Bergstr.
2145/3140-543210

Preface

This report on CONLAN is directed primarily at toolmakers or developers of software for computer aided design of digital systems, which are familiar with specification and implementation techniques for hardware description and programming languages, rather than at the tool user, i.e. hardware designer, himself.

Every effort has been made to eliminate mistakes and ambiguities from the text. The chairman is indebted to Mssrs. K. Hahn and B. Kreling for their careful review of the manuscript. Many improvements are due to them.

Nevertheless the authors are aware that, due to time pressure and to the difficulties of coordinating the work of an international working group spread over two continents, the present version may still lack conciseness in some parts and sufficient illustrating examples in others.

In spite of possible deficiencies in these areas, it was felt that the report should be published as it stands to get exposure to public reaction as early as possible. This is expected to lead to improvements to be incorporated in a final version and in the CONLAN support software which is presently under development.

During this review period it is planned to publish complementing material on informal explanations of CONLAN features, on examples of language definition and application, and on the support software.

R. Piloty
(Chairman, CONLAN Working Group)

Table of Contents

List of Tables

List of Figures