

# SCIL - III

The KARL system's  
Stimuli and Command Interface Language

integrating test and simulation through a  
common language for stimuli description

Gerold Alfs

Reiner W. Hartenstein

Michael Riedmüller

Kaiserslautern University  
Research Group on  
Computer Structures and  
Design Sciences  
P.O. Box 3049  
D-6750 Kaiserslautern, F.R.G.

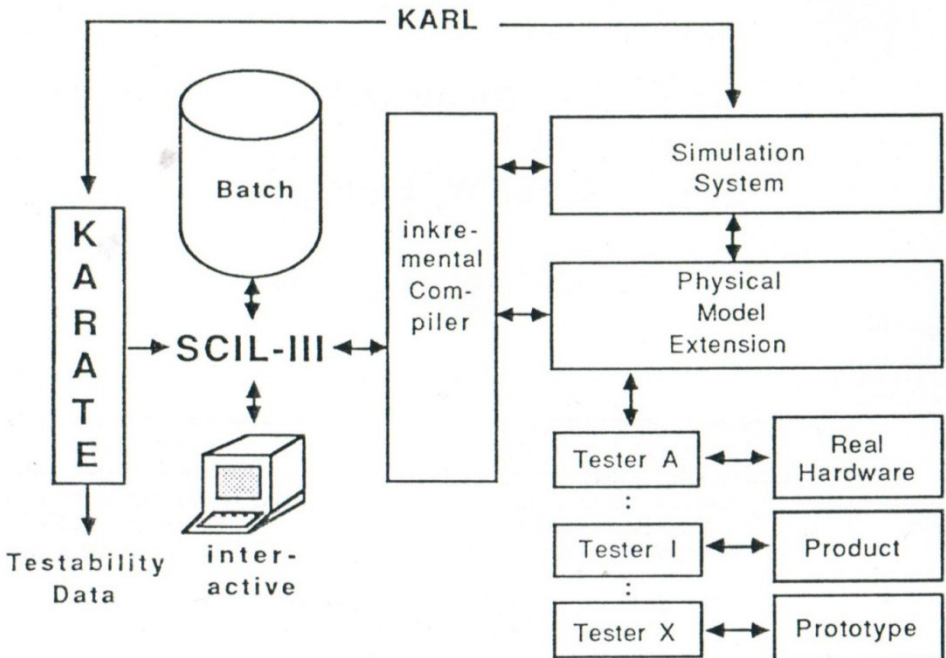
Universität Kaiserslautern  
Lehrstuhl für  
Rechnerstrukturen  
und Technische Informatik  
Postfach 3049  
D-6750 Kaiserslautern

Tel.: +49 (631) 205-2606  
Telefax: +49 (631) 205-3200  
Telex: 04-5627 unikkd  
e-mail: abakus%uklirb@unido.uucp

## SCIL-III's History

**SCIL-III** is not only the new user interface of the KARL-CAD-system. It is a tester-independent language for simulator activation and testing. It has been developed to replace the less powerful language SCIL-II. Besides improvements in the area of parameterized procedure and function calls, the stimuli patterns generated by **SCIL-III** programs may be applied to a hardware prototype through the KARL system's real chip extension, gathering the responses the same way.

## SCIL-III and the Simulation System



## Features of SCIL-III

- The same language for simulation, test development and testing
- Supports design for testability
- Concepts of modern high level languages support structured, comfortable stimuli description and response analysis.
- Good readability and power of high level programming languages
- Interactive User Interface
- Supports well structured test pattern organisation
- Supports test strategy development at early phases of the design process
- Supports concise generic test description
- Supports tester independant test descriptions
- Supports portability of tests between different types of testers
- Supports the cooperation of simulator and real hardware via "real chip" extension
- Supports prototype testing
- Supports production testing
- SCIL-III provides special language features for tester setup
- automatic test pattern generator and testability analyser available : KARATE generates SCIL-III programs from KARL descriptions
- SCIL-III is accepted by the KARL-multilevel Simulation System

## Availability, System Requirements

A prototype version of SCIL-III is implemented in VAX-11 PASCAL under the VAX/VMS operating system (version 4.x). A first release will be available at the end of 1988. SCIL-III requires the KARL-3 system environment.

## License

- The standard license for the KARL system allows the use of SCIL-III on one CPU only.
- attractive site licenses offered upon request
- substantial discount for educational and non profit research institutions

## Support / Maintenance / Updates

- currently no warranty offered by license agreement
- phone hotline service provided during office hours
- user group organisation
- free updates upon request
- info on updates and new versions will be mailed to users

™ VAX and VMS are trademarks of Digital Equipment Corporation.  
•The KARL-System and it's language has been developed by Prof. R.W. Hartenstein and his group, Kaiserslautern University, F.R.G