

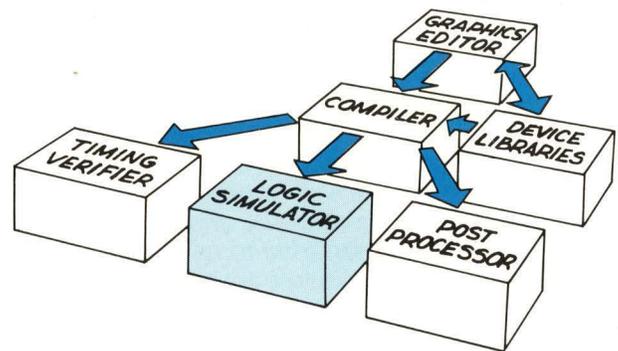
## SCALD Logic Simulator

### FEATURES

- Provides easy to use interactive, gate-level logic simulation
- Very high-speed simulation can be accomplished
- Simulates buses and multiple-bit devices in parallel
- Interactive user interface facilitates debugging of designs
  - Can be used interactively from a SCALD-system™ Design Station
  - All signals and memory contents can be displayed or changed
  - Simulated time can be advanced by any amount desired
  - Your debugging strategy can be dynamically changed
- Requires only the logic diagrams as input
  - Does not require user programming
  - Understands high-level graphic primitives
  - Uses graphic user-defined simulation models
- Capable of simulating partially completed designs
- Can be used to develop and debug micro-code
- Allows simulation of tri-state and undefined logic
- Generates high-level behavioral models

### DESCRIPTION

The SCALD Logic Simulator lets you simulate a design down to the component level. It uses the same design database for simulation as is used for implementation thus making separate descriptions for the system unnecessary.



### High Speed Simulations

A key feature of the SCALD Logic Simulator is speed. One reason for its high speed is that timing verification is handled separately.

Traditionally, logic simulation and timing verification are combined procedures. By clarifying and separating these functions the SCALD-system™ achieves complete and highly efficient design validation. The SCALD Timing Verifier, when used first, will have already analyzed the design for timing errors, thus simplifying the task of simulation. Additionally, the SCALD Logic Simulator can operate on buses and multi-bit devices in parallel. The result is a simulator that is an order of magnitude faster than other methods—finally making it practical to simulate large designs.

VALID makes available to the engineer device libraries containing complete information on TTL, LSTTL, 10K ECL, 100K ECL, STL, CMOS and memory circuits. You can also create your own simulation libraries for customized devices very easily. This is accomplished by graphically modeling the behavior of the device using a set of simulator primitives provided by VALID. The primitives include gates, flip-flops, multiplexers, adders, registers, memories and other components. More complex primitives, like a complete ALU are also supplied. In addition, the user may take advantage of the hierarchical features of SCALD to construct building blocks from primitives.

