

## A CONCEPT STUDY OF SOFTWARE WITH VLSI

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### Abstract

Very-large-scale integration (VLSI) is the process of creating integrated circuits by combining thousands of transistors into a single chip. VLSI began in the 1970s when complex semiconductor and communication technologies were being developed. The microprocessor is a VLSI device. CAD software was an important part of the VLSI effort. This led to major improvements in CAD technology for layout, design rule checking, and simulation. The tools developed in this program were used extensively in both academic research programs and in industry. The ideas were developed in commercial implementations by companies such as VLSI Technology, Inc., Cadence and Synopsys.

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**Keywords:** CAD, EDA, Operating Systems, SPICE, GPL, GNU, gEDA, FreeBSD.