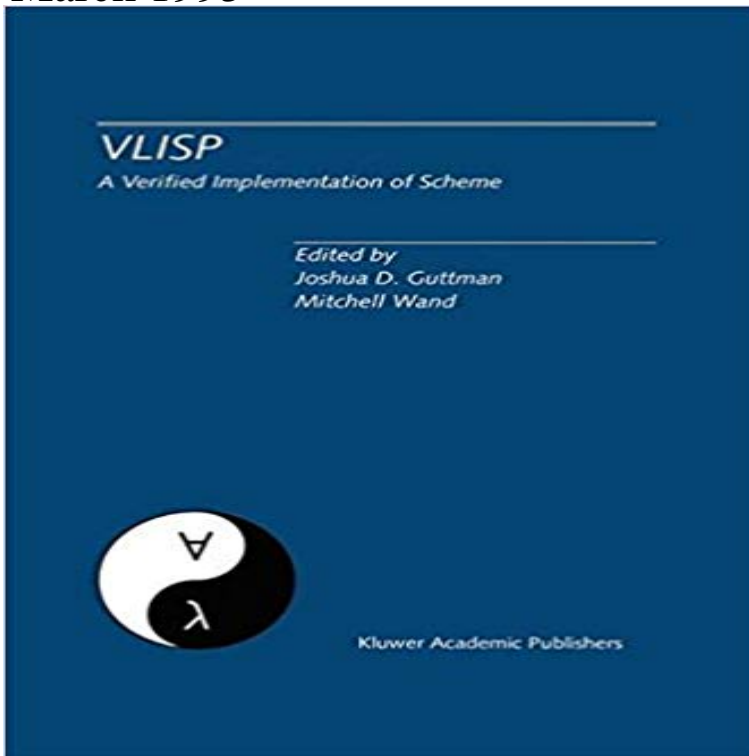


# VLISP A Verified Implementation of Scheme: A Special Issue of Lisp and Symbolic Computation, An International Journal Vol. 8, Nos. 1 & 2 March 1995



The VLISP project showed how to produce a comprehensively verified implementation for a programming language, namely Scheme [4, 15). Some of the major elements in this verification were: The proof was based on the Clinger-Rees denotational semantics of Scheme given in [15). Our goal was to produce a warts-and-all verification of a real language. With very few exceptions, we constrained ourselves to use the semantic specification as published. The verification was intended to be rigorous, but not completely formal, much in the style of ordinary mathematical discourse. Our goal was to verify the algorithms and data types used in the implementation, not their embodiment in code. See Section 2 for a more complete discussion of these issues. Our decision to be faithful to the published semantic specification led to the most difficult portions of the proofs; these are discussed in [13, Section 2.3-2.4). Our implementation was based on the Scheme48 implementation of Kelsey and Rees [17). This implementation translates Scheme into an intermediate-level byte code language, which is interpreted by a virtual machine. The virtual machine is written in a subset of Scheme called PreScheme. The implementation is sufficiently complete and efficient to allow it to bootstrap itself. We believe that this is the first verified language implementation with these properties.

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