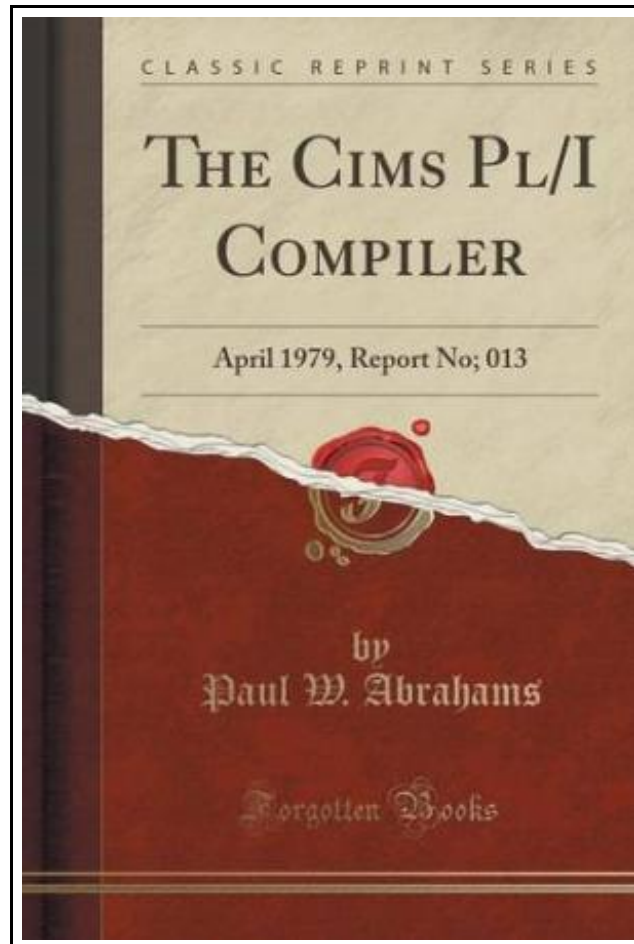# The Cims PL/I Compiler: April 1979, Report No; 013 (Classic Reprint) (Paperback)

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Reviews

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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from The Cims Pl/I Compiler: April 1979, Report No; 013 Cims Pl/I is an implementation of Pl/I on the Control Data 6600 computer. The compiler is itself written almost entirely in Pl/I. Since a Pl/I compiler is an inherently large object, building one is a good way to test the limits of ideas on compiler construction and programming methodology. The compiler is a multi-pass affair, and the first three passes are almost entirely machine-independent. Two primary kinds of internal representations are used: a sequential form for information with relatively little interreferencing, and a pointer-linked form for other objects such as declarations and block descriptors. The rearmost machine-independent representation is the Second Intermediate Language, Il2, which treats the program as a set of instructions to a virtual Pl/I machine. The instructions include both executable instructions and storage-defining instructions. Parsing is done semi-automatically, using a preprocessor to build essential tables. Reasons for not using a fully automatic parser are given. Good error handling is achieved by generalizing the syntactic forms accepted by the parser, and preparing the later passes to cope with these generalized forms. Preprocessors that derive useful information from the source text of the compiler itself are used for various purposes. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the...

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