



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

By Paul W Abrahams

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...

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