

The New Developments in ${\tt C}$

S. C. Johnson L. Rosler Bell Laboratories

The C language has developed considerably since the publication of the Kernighan and Ritchie book. The language development includes enumeration data types, a <u>void</u> type, long (more than 8 character) identifiers, and an expanded semantic structure. At the same time, the compiler technology that developed the Portable C Compiler (which was used to provide more than 30 production compilers on different machines) is evolving into PCC2, which offers improved maintenance and an easier porting process while handling a larger number of machine features.

Future directions of C involve argument declaration and checking, the ability to describe constants explicitly in the language, and assembly language windows. The talk will touch briefly on other experiments based on C, everything from the extension of C to provide type and operator redefinition to a dialect of C which compiles to silicon chips.