

AN INTELLIGENT PROGRAM  
DEBUGGER FOR PASCAL PROGRAMS

C. Anoma Witharanage  
The Open University, Nawala.

When compiling a Pascal program in today's computers, it simply points to the lines of code that are wrong, but to do not suggest why the bug arose or how the bug can be corrected.

Debugging systems usually do not concern themselves with what the program is supposed to do, they only analyse what the program actually does. If a debugging system is to cope with the various types of errors that programmers make, it must understand what the programmer is trying to do.

Programming knowledge in the intelligent debugging systems is frame-based. In frame-based systems knowledge is organised into frames, each of which corresponds to a particular concept that the system 'knows' about.

This intelligent program debugger is being designed to find every bug in most beginners programs.