SOFTWARE DEVELOPER'S TOOLBOX

The Archimedes Software Developer's Toolbox has been created by Acorn's own software development engineers to place a package of powerful facilities at the disposal of all serious programmers.

The toolbox contains the Archimedes Symbolic Debugger, and a set of utilities which have proved their value at Acorn's Research and Development Centre in Cambridge.

SYMBOLIC DEBUGGER

The Archimedes Symbolic Debugger helps trace bugs in the source code of programs written in Archimedes ANSI C, FORTRAN 77 and ISO-Pascal. It provides a debugging environment using source-level frames of reference (variable names, procedure names, line numbers and data structures).

PROGRAMMING UTILITIES

The utilities contained in the toolbox are a selection that have proved useful in software development. The list, in alphabetical order, is as follows:

- Amu   'Make' utility which controls the compilation of multiple source files in large programs.

- Common   Lists the most common words in a list of files.

- Dbug   Machine-level debugger which can be used with compiled or assembled object code.

- Diff   Compares two files and lists the differences between them.

- Grope   Searches files for a given pattern or character string.

- Libfile   Creates and manipulates library files.

- Link   Links object files and libraries to form an executable image.

- Memtest Tests the application memory of the machine.

- Objlib   Adds the symbol table needed to generate an object library.

- Shell   Allows Archimedes ROM-resident BASIC to be used as a command language.

- Squeeze   Compresses image files to conserve disc space.

- Wc   Counts characters, words and lines in a file.

SUPPORTING PRODUCTS

The Archimedes Software Developer's Toolbox is one of a set of programming languages and development tools that make the Archimedes range of high-performance computer systems a formidable powerhouse for software development.

Products available for use in conjunction with the Archimedes Software Developer's Toolbox include:

- Archimedes Twin program editor with text editing facilities specially designed for program development.

- Archimedes ANSI C, the language of choice for professional software development.

- Archimedes FORTRAN 77, the established language of the scientific community.

- Archimedes ISO-Pascal, the widely taught structured programming language.

Archimedes

Acorn
The choice of experience.

- Archimedes Assembler, providing a full macro assembler for the ARM instruction set and supporting linkage to compiled object files.

- Programmer's Reference Manual, covering the Archimedes operating system.

HARDWARE REQUIREMENTS

Archimedes computers with 1 Mb of RAM or more are suitable for program development using the Software Developer's Toolbox.

SOFTWARE REQUIREMENTS

The symbolic debugger, which is part of the Software Developer's Toolbox, has been developed for use only with release 2 versions of the languages ANSI C, FORTRAN 77 and ISO-Pascal.