

# 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 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.

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