Programming in Archimedes Assembler offers direct access to the full Archimedes ARM (Acorn Risc Machine) central processor instruction set. With the exceptional speed of the ARM CPU, high-level languages can be used for virtually all applications, but the Archimedes Assembler delivers the total performance of Archimedes RISC architecture to the most demanding programmers.

THE ASSEMBLER PROGRAMS

Archimedes Assembler comprises three programs, together with a comprehensive manual:

- Aasm Assembles files written in Assembler for immediate execution.
- ObjAsm Assembles files written in Assembler into Acorn Object Format (AOF).
- Linker Links AOF files, either written in Assembler and assembled using ObjAsm, or created by high-level language compilers.

ASSEMBLER FUNCTIONS

Key functions provided by the Archimedes Assembler include:

- Full support of the ARM instruction set
- Support for the floating point instruction set
- Global and local label capability
- Comprehensive expression handling
- Conditional assembly
- Powerful macros

SUPPORTING PRODUCTS

Archimedes Assembler 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 Archimedes Assembler include:

- Archimedes Twin program editor with text editing facilities specially designed for program development.
- Archimedes ANSI C, Pascal and FORTRAN high-level language compilers. Assembler subroutines can be linked with compiled object files.
- Archimedes Software Developer's Toolbox, comprising a symbolic source-level debugger and a package of programming utilities.
- 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 Archimedes Assembler.