ACORN Risc TECHNOLOGIES

Building ARM Software

- ARM, PC or Workstation hosted
- Optimising C compilers
- CFront C++ preprocessor
- Choice of debuggers
- Support for all ARMs including Thumb

Acorn Risc Technologies can supply a choice of development software for the ARM. An ARM hosted variant, Acorn C/C++, (running under RISC OS on an Acorn Risc PC or A7000 for instance) has the added advantage of being able to try out the software on the build system. It also includes CFront, the popular C++ preprocessor as used by Apple for their ARM based Newton. This solution is generally best for RISC OS targeted systems.

Alternatively, the ARM SDT (Software development toolkit) runs on Workstations (SunOS or HPUX) or MS Windows systems (preferably NT or 95). This system supports all the available ARMs including Thumb and both endians. It is ideally aimed at targeting embedded systems or non-RISC OS products. The SDT is capable of emulating ARM processors, thereby allowing full breakpointing and memory watching. Additionally, it supports RDP (Remote debugging protocol) allowing software to be downloaded to an embedded system such as the ART 7500 development system (see datasheet DS001), and then debugged via the Windowed debugger.

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Acorn C/C++ features

- RISC OS 3 (version 3.10 or later) hosted, 4MByte RAM required (8MByte recommended)
- Optimising C compiler (ANSI X3J11/90-013 compliant)
- ARM assembler for targeting ARM 2, 3, 6 and 7 cores (includes 7500)
- CFront version 3.0 C++ preprocessor
- Graphical debugging environment
- High level GUI development kit
- Project tools
- Example source including RISC OS 'hypertext' application
- Support for overlays and RISC OS modules

ARM SDT features

- Runs under MS Windows, SunOS or HPUX
- Optimising C compiler
- Support for all ARM cores including Thumb instruction set
- Fully functional Windowed debugger
- RDP (serial or serial/parallel) and ICE for remote debugging
- Processor emulation and timing simulation
- Project manager for maintaining builds and libraries
- Choice of libraries for different APCS
- Floating point emulator
- Binaries for batch file running
- Example sources
- Support for overlays, shared libraries and scatter loading

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