

# High-Powered ARM Development at Garage-Powered Prices

## ImageCraft ICCV7 for ARM

### ANSI C embedded systems development tools for ARM-based microcontrollers

#### comprehensive target support

- ICCV7 for ARM supports all ARM7T based microcontrollers, including but not limited to Atmel AT91, AT91SAM7, Philips LPC21xx, Analog Device ADuC7024, and ST STR710 etc. ARM9 support such as Sharp LH-7A forthcoming.
- Optimized ARM7 code generation with conditional execution, optional Thumb mode support etc.
- Write interrupt handlers in C.
- Support inline assembly and can interface with assembly modules.

#### powerful and user-friendly IDE

- Fast 32-bits Windows program, accepts long file names.
- Uncluttered tabbed editor windows.
- C editor with syntax highlighting, jump to matching braces, block indents and outdents, extensive bookmark support, and code templates.
- Application Builder to generate peripheral initialization code.
- Code Browser (™) lists your project's functions and variables by their addresses, data type and sizes.
- Project Manager automatically generates standard makefile, one click to rebuild.
- Simple interface to select compiler options, including choose from a data base of popular chip configurations for memory address setup, select different versions of "printf" based on features and code size, and lots more!
- Built-in ANSI Terminal emulator for target communication.
- In System Programmer - downloads code.

#### ANSI C compiler

- Modern fast C Compiler with FULL support for the ANSI C language. NOT micro-C, GNU GCC or extended K&R C.
- 32-bit longs, 32 and 64-bit IEEE floating point.

#### optimizations

- Device specific instructions.
- Optimized switch handling.
- Algebraic simplifications.
- Block level common subexpression elimination.
- Advanced register allocation.
- Peephole optimization.
- Optimized ARM7 code generation with conditional execution, optional Thumb mode support etc.

#### assembler / linker

- Relocatable assembler and linker.
- Assembler directives include conditional processing, include files, macros and textual defines.

- Industry standard output formats; Intel HEX, AVR COFF.

#### debugger support

- Support for Nohau EMUL-ARM emulator and Seehau debugger.
- Support for GNU ELF/Insight with supported JTAG such as Wiggler and Raven.
- (coming soon 1Q'05): ImageCraft brand low cost source level debugger.

#### libraries

- Subset of ANSI C library including printf, memory allocation, strings, and math functions.
- Target-specific functions such as those for accessing EEPROM and various subsystems (SPI, ADC, etc.)

#### tools

- Make utility.
- Librarian to manage library file.

#### documentation

- Online HTML Help also available as printed manual (> 100 pages.)

#### third party tool support

- Command line compilers callable from other editors (e.g. Codewright). Multiedit interface DLL also available.

#### technical support

- Excellent technical support via email. Typical turnaround time is the same day!
- Free 6 months maintenance update via internet download.
- Low cost annual maintenance plans.

#### available in multiple versions:

- STD - IDE with compiler support for ARM7.
- ADV - Thumb support (availability: 1Q'05).
- PRO - Global optimizations support (availability: 1Q'05).
- ICCV7 for ARM 45-day fully function demo may be downloaded from our website.
- 4K limited for non-commercial use after 45 days.

#### V7 for Windows pricing:

- V7 Standard for Windows 95/98/NT/XP - \$199
- V7 Advanced for Windows 95/98/NT/XP - \$349
- V7 Professional for Windows 95/98/NT/XP - \$749
- NOTE: Standard version owners may upgrade to the Advanced or Professional versions for the difference in price.



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