

High-Powered TinyAVR Development at Garage-Powered Prices



ImageCraft ICctiny V6

ANSI C embedded systems development tools for Atmel TinyAVR microcontrollers

comprehensive target support

- ICctiny supports all TinyAVR devices and AT90S1200.
- Works with our companion product, ICCAVR for AVR devices with SRAM (Tiny26 has SRAM).
- Write interrupt handlers in C.
- Supports inline assembly and can interface with assembly modules.
- Byte operations.
- Automatic generation of bit IO instructions such as sbi, cbi, sbis, ... etc.

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.
- 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.
- Includes Application Builder to generate peripheral initialization code.
- In System Programmer - downloads code.

ANSI C compiler

- Modern fast C Compiler with full support for the ANSI C language. NOT a micro-C or extended K&R C, but a robust ANSI C front end written from the ground up, which has been in use for over 10 years.
- 16-bit longs.

optimizations include:

- Device specific instructions.
- Optimized switch handling.
- Algebraic simplifications.
- Block level common subexpression elimination.
- Advanced register allocation.
- Peephole optimization.
- Dead code elimination.
- Copy propagation.
- Unreachable code elimination.
- Loop invariant code motion.
- User adjustable allocation of internal resources.

assembler / linker

- Relocatable assembler and linker.
- Assembler directives include conditional processing, include files, macros and textual defines.
- Industry standard output formats include Intel HEX, and AVR COFF.

debugger support

- ICctiny supports Atmel's AVR Studio and other COFF capable debuggers.

libraries

- C character type functions.
- EEPROM read/write functions.

tools

- Make utility.
- RCS for source code management.

documentation

- Online WinHelp 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.
- Various debuggers.

technical support

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

V6 for Windows availability / pricing:

- ICctiny fully functional 30-day demo may be downloaded from our website.
- V6 Standard for Windows 95/98/NT/XP - \$129
- ICctiny Standard & ICCAVR Standard bundle - \$299
- ICctiny Standard & ICCAVR PRO bundle - \$599



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