

Byte Craft Limited

Code Development Systems

CATALOG

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Byte Craft Limited specializes in optimized code generation for embedded systems with specialized instruction sets. We develop the first C compilers for emerging processor architectures like the Freescale RS08 and the Freescale eTPU.

MPC

- Supports all Microchip PIC 12x/14x/16x/17x families, 8K and Flash parts
- Named address space supports variable grouping
- Works with Microchip's PICMASTER, ICE 2000 emulator, MPLAB-SIM simulator, Advanced Transdata, Tech-Tools Mathias, Clearview, iSystem
- Supports setting configuration fuses through C

COP8C

- Supports the Feature Family, and SGR/SGE
- Supports LOCAL memory reuse, SPECIAL memory through software
- Supports SREG memory management
- Support for symbolic debugging with emulators including MetaLink
- Supports setting configuration fuses through C

C6805

- Supports all M68HC05 variants
- Supports LOCAL memory reuse, SPECIAL memory through software
- Support for emulators including MMDS05, MMEVS, and Metalink iceMASTER
- E6805 available to support EVM, EVS
- Supports setting Mask Option Register through C

CYPRESS C

- Supports all M8A/M8B variants
- Supports processor-specific instructions
- Emits Cypress ROM executables
- Includes example code

C6808

- Supports HC08, HCS08, **RS08**
- Supports LOCAL, _Access memory
- Support for symbolic debugging
- Access to all hardware through C
- Enhanced support for TR 18037 fixed point math

SXC

- Supports all SX variants, including SX48 and SX52
- Supports LOCAL memory reuse, SPECIAL memory through software
- Supports virtual device drivers within C
- Data types include bit, bits, char, short, int, int8/16/24/32, long, float and fixed point
- Support for assembly source-level debugging with Parallax SX-Key

ETPUC

- Supports the Freescale eTPU
- High-level language for peripheral tasks
- Intuitive coding for threads, channel condition encodings, subinstructions
- Best code density for parallel instruction architecture
- Works with any host CPU compiler

Fuzz-CTM

- Transforms fuzzy logic to plain C; call between C and fuzzy functions
- Accepts fuzzy logic rules, membership and consequence functions
- Includes plots of membership and consequence functions in generated comments

Features

Our compilers generate tight and fast executables, as well as **reconfigurable listing files** that allow analysis of the generated code and original source.

Supplied **header files** describe each processor derivative. **#pragma** statements cover interrupts, memory resources, ports, and configuration registers. Convenient **#defines** make your programs portable between members of a processor family.

C support includes embedded extensions: **bits** data types, binary constants, direct register access in C, full access to assembly, initialization control, direct variable placement, interrupt and thread support in C.

Linking is optional: **BCLink linker** fits in your workflow, while **Absolute Code Mode** links library modules into the executable during compilation.

Graphical versions feature the **BCLIDE**, with project maintenance and customizable tools.

Availability

Byte Craft Limited products are available world-wide, directly from Byte Craft Limited and through our distributors. Demonstration versions of the Code Development System are available. For more information, see www.bytecraft.com.

Upgrade Policy

Registered customers receive free upgrades and technical support for the first year. All other **registered users** may purchase major releases for a fraction of the full cost. Along with our version upgrades, Byte Craft Limited remains committed to maintaining a high level of technical support.



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