

# 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

## C6808

Supports HC08, HCS08, RS08  
Supports LOCAL, \_Access memory  
Support for symbolic debugging  
Access to all hardware through C



## Support for Freescale RS08

## 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.

## 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

## 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

## 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

## Z8C

Supports all Zilog Z8 and Z8+ variants  
Supports instruction set variants C94, C95, HALT, MUL, STOP, WAIT  
Supports processor-specific instructions with C intrinsics  
Generates information required for source-level debugging

## C38

Supports all MELPS740 variants, including 7600 series, M509xx, M371xx, M374xx and M38xxx  
Supports MUL, 7600  
Supports processor-specific instructions with C intrinsics  
Allows direct access to AC, X, Y, CC registers

## 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

## CYPRESS C

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

## Fuzz-C™

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

## 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](http://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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Byte Craft Limited Code Development Systems run under Microsoft Windows. Demonstration versions available from our website.