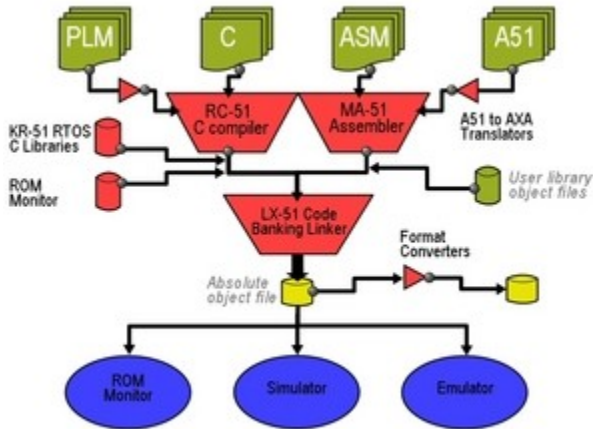


## RC-51 C Compiler

Proven Raisonance compiler technology for a complete range of 8051 microcontrollers



The Raisonance technology at the heart of our RC-51 C compiler ensures a thoroughly refined, proven tool that delivers the best results for 8051 applications, exceptional ease-of-use across a complete toolchain and efficient, direct support from Raisonance.

RC-51 offers a complete range of features tailored to the 8051 architecture for optimal compiler results. Features include:

- Full range of optimizations for code size or speed of execution (Jump and switch optimization, loop rotation, elimination of common sub-expressions and unused code, ...)
- ANSI standard C language with expanded 8051 specific keywords
- Full range base types for integers (8-bit signed/unsigned char, 16-bit signed/unsigned int, 32-bit signed/unsigned long) and reals (float IEEE754 single precision, BCD float 32, 48, 56-bit words)
- 5 Memory models and two ROM models
- Generic and space qualified pointer types
- ANSI standard libraries written in Assembler language
- Parameter passing with/without register use and pseudo static segment use

Toolset integration and careful compiler testing ensure compiler ease-of-use and reliability. Seamless integration in **Ride** facilitates access to the compiler as you write and debug application code. Use of Raisonance **CodeCompressor** technology can further improve code size with post-link code optimization across the entire application. The combination of regularly updated test suites for anti-regression and ANSI conformity, and regular benchmarking ensure the quality and evolution of all Raisonance compilers.

**Free demonstration versions** ([www.mcu-raisonance.com](http://www.mcu-raisonance.com)) of Raisonance software toolkits (RKits) let you try compilers and the complete tool environment with minimum risk and no obligations.