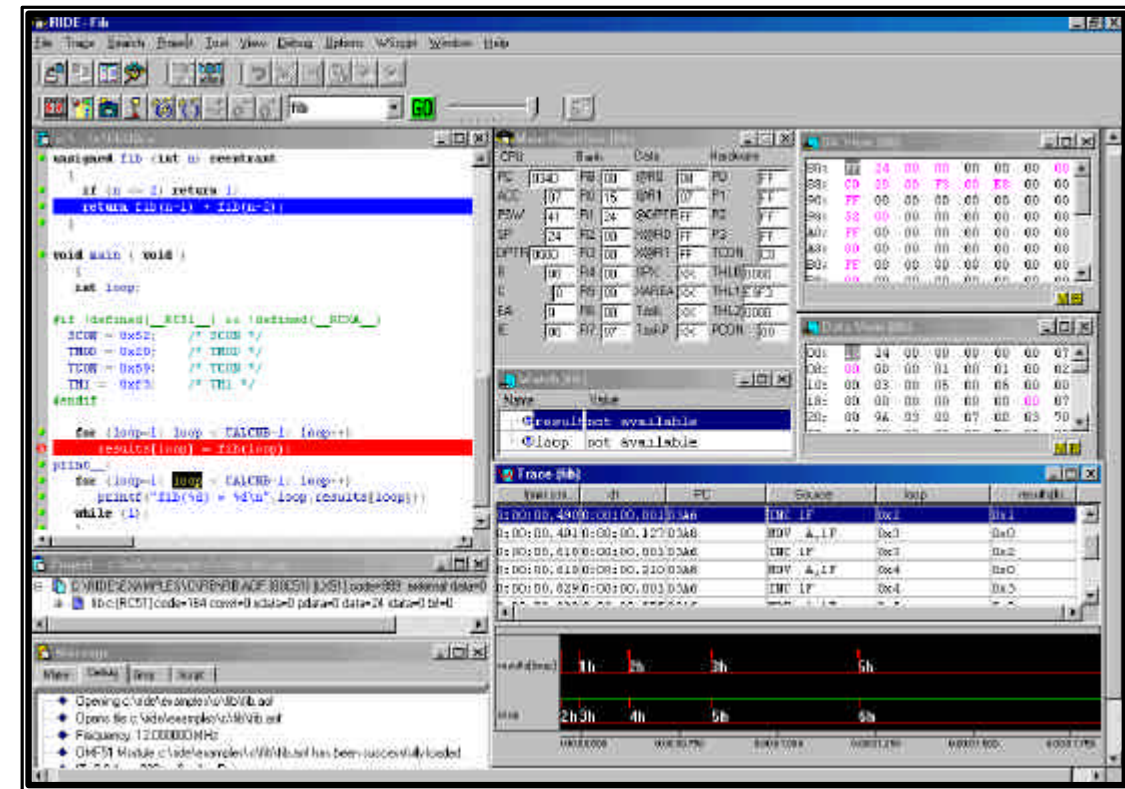
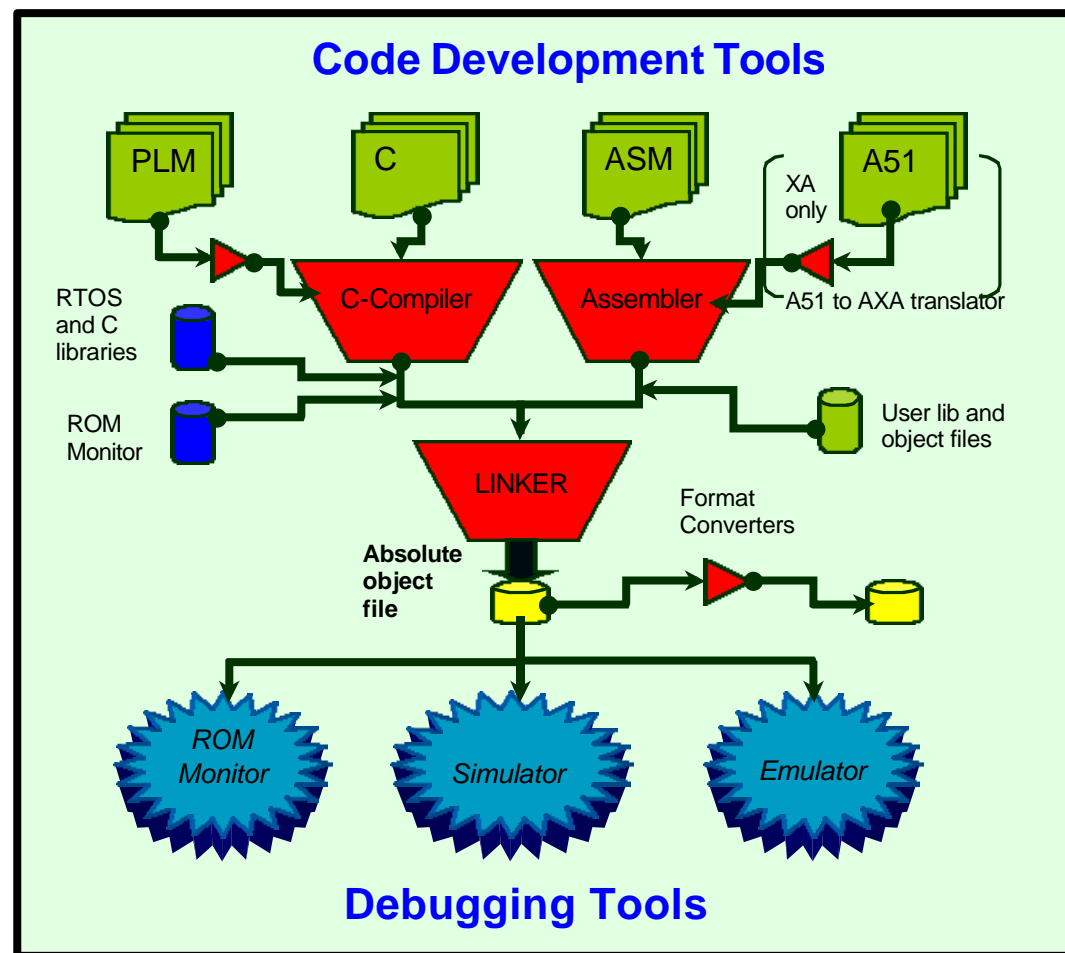


RIDE

Raisonance Integrated Development Environment

RAISONANCE provides powerful and user-friendly development tools dedicated to embedded applications. All tools, for all targets, are integrated into Raisonance Integrated Development Environment (RIDE): this allows maximum comfort and no waste of time throughout the development cycle – even when switching from one target to another.



A friendly access to the most comprehensive range of development tools for

C Compilers
Assemblers
Linkers
RTOS
PL/M to C XLAT
ROM Monitors
Simulators
Emulators

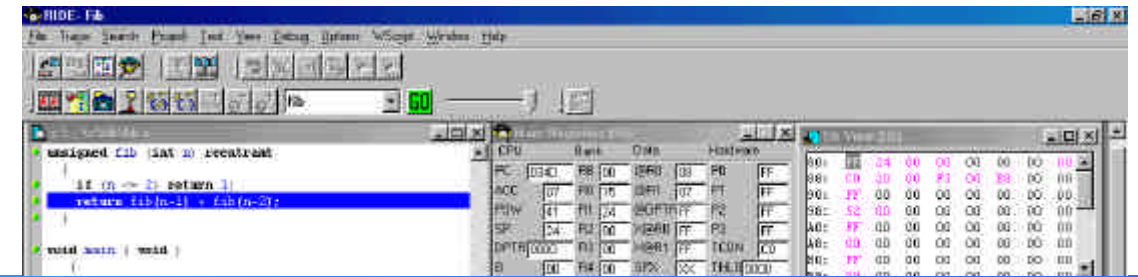
80C51
51XA
ST6
Smart Cards
And more

Different complete tool packages -**RKits**- are available including tools dedicated to the chosen microcontroller. Each full set includes:

- RIDE, common to all RKits,
- The Code Development Tools, with:
 - ANSI-C Compilers: highly optimizing and specifically developed to make the best out of the target micro
 - Macro-Assemblers, Linker, Optimizing Linker, Library manager and various utilities,
 - Full set of libraries including RTOS, ROM-Monitors...
 They allow you to generate useable code, either directly or through format converters.
- The Debugging Tools, including a Simulator and drivers for various kinds of Hardware (Emulator, ROM Monitor...) which share the same user interface as the simulator: whatever debugging tool you are using you see the same menus and commands.

RIDE

RIDE is a fully featured Integrated Development Environment that provides seamless integration and access to all the professional developer's tools. From editing to compiling, linking, debugging and back to the start, RIDE manages all aspects of Embedded Systems development for any member of the 8051, 80C51XA or ST6 families and more.



www.raisonance.com

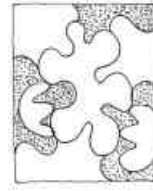
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Editor



RIDE is based on a fast, multi-document editor designed to meet the specific needs of the programming art. The various methods, menus, commands and shortcuts are all fully compliant with the Microsoft® specifications for Windows®. Classic commands, such as string search and block actions, have been added to provide specific and advanced features for the professional developer. A customizable, color highlighting editor is used to indicate specific syntax elements as they appear in the source file: keywords, comments, identifiers, operators, and so on. Whether it is C or assembler, the syntax highlighting is specific to the intrinsic file type. This allows users to quickly and easily identify those parts of the code responsible for syntax errors. **Specific C language commands** such as "search for matching delimiter" (bracket, parenthesis ...), indenter, or action on blocks, make RIDE a powerful and easy to use tool for any Embedded Development need. The **Grep facility** allows to search for a string of characters in different files and displays the results in the Messages window. The editor, always present even during the debugging session, includes practical options to personalize the environment. The Online help system is context sensitive and provides information on nearly all aspects of RIDE and on the various integrated tools driven by the IDE. Online menu hints appear on the status line whenever you select a menu command.

Project Manager



The project manager creates links between the project files and the tools necessary to create the project. A project is dedicated to a target: 8051, XA, ST6, SmartCard or other microcontroller. The linker manages object and library files, and output format conversion as necessary. With its **Tree Structure**, the Project Manager makes the most complex applications (bank switching, flash, multi-processor, multi-module...) easy to manage. The Project/Make command directs the integrated "make" utility to build or rebuild the target programs for the current project. To avoid wasting time, each source file will be translated by its associated tool only if any of its dependencies are found to be out of date. Dependency analysis, even of directly or indirectly included files, is automatic. Options can be defined globally (for all the files) or locally (for a specific file or group of files). Individual attributes can be set for any file in the project. Similarities between the different tools make migration immediate from one processor family to another, allowing **multi-processor projects**.

Tools Integrator



RIDE is a Tools Integrator since it manages RAISONANCE's programming and debugging tools as well as **third party tools** with complete transparency. Users can write their own **extensions to the Environment** (like new peripherals simulator) based on an **open and documented standard**. RIDE is a single environment that gives you complete control of your application whatever step you are at: editing, compiling and debugging all work smoothly together. Several powerful utilities like library manager, format converters... are integrated as well. The environment is completely configurable for each project: each file is associated, by its type, to the appropriate translating tool. The debugging environment can be configured to use real tools (ROM Monitor, Emulator) or virtual tools (Simulator/Debugger). The interface is very flexible and can be set as required: it takes into account the future evolution of programming and debugging tools.

Debugger Interface



RIDE provides a fully integrated source level debugging environment for the actual hardware **-Emulators, ROM Monitors-** and for virtual tools **-Simulators-**. The interface is adapted to the selected component, but access is always done in the same, easy way. All necessary information is derived from the translators used to accomplish each step of the process. This includes source code specific information such as complex type details,.... With a simple click of a mouse button, the user can select among several powerful functions. The fast smooth integration afforded by RIDE promotes a feeling of familiarity and ease of use, while providing a level of comfort and efficiency that reduces the most difficult and complex applications to easily managed tasks. This seamless progression of the "code-translate-link-debug-test" cycle is the result of perfect communication between the programming tools and the debugger. This is the heart of RIDE. RIDE includes simulation engines for most 8051, 80C51XA and ST6 derivatives, among others. The simulator/debugger is cleanly integrated into the presentation windows. A wide range of views can be selected to provide flexible direct examination of all memory spaces, all internal peripherals, as well as **high-level symbolic information**. The simulation engines perform detailed and faithful simulations of all peripherals. Moreover you get powerful features which can be simply implemented: breakpoints (simple or conditional), trace... Lastly, the **multi-processor simulation** can be done through the connections (nets) manager which allows communication between processors or with function generators.

