



XE8000 series support tools

Software dvlp. tools (assembler, C compiler, debugger, starter kit, simulator, emulator)

General Description

The XE8000 series development tools are based on the CoolRide software environment. CoolRide includes optimized ANSI-C compiler, assembler, linker, simulator, source level debugger, profiler and project management, all tools being encapsulated in a user friendly graphical interface.

The software development process is supported by 3 types of execution tools: a simulator that runs on Windows 95/NT machines, a starter kit including a multiple time programmable (MTP) version of the XE8851, a CPU core emulator with its peripheral card and a circuit programmer.

Documentation is available on-line in the CoolRide environment, for browsing and for printing.

System Requirements

- Windows 95 or Windows NT4
- 60 MB of free disk space
- Serial or SCSI interface for HaCE emulator
- Serial interface for starter-kit
- CD-ROM drive

Tools features

- Integrated development environment with graphical interface for Windows 95/NT
- ANSI-C compiler
- Source level debugger, profiler
- Fast simulation (nearly real time on a regular PC)
- Multiple Time Programmable (MTP) chip on starter kit
- Direct download from programs developed on the development tools into the starter-kit chip memory
- Direct link between emulator and the other development tools (debugger, project management)
- Extensive types of break-points on emulator
- On-line documentation

Ordering Information

All products below are delivered with the CoolRide software tools, including compiler, assembler, linker, simulator, source level debugger, profiler and project management.

Nomenclature:

- XE88LC05ProStart: Programmer and Starter kit for the XE88LC05.
- XE8000HaCE: XE8000 core emulator

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CoolRide (Software dvlp. environment)

CoolRide is a complete development environment for XE8000 series and other CoolRISC based CPUs. It is based on GNU tools and it is encapsulated in a graphical interface.

CoolRide interfaces directly with the emulator and the starter-kits.

CoolRide has colorised editors, graphical debugging interface, downloadable code generation and on-line help and documentation.

C-compiler

The C-compiler is ANSI-C compliant with extended features for the XE8000 CoolRISC 816 CPU core support. On-line insertion of assembler instructions and variable address assignment is supported. C and math library (fixed and floating point) are optimized for CoolRISC architecture.

Assembler

The assembler handles macro and the full set of instruction and addressing modes for the XE8000 series.

Linker

Linker generates ELF, Intel Hex and SREC formats. It includes powerful link directives like memory mapping, data and program relocation, and absolute symbols.

Debugger

The symbolic debugger gives access to the built simulator and to the external emulator (XE8000HaCE). Extended break and trace capabilities are available in emulation mode.

Profiler

The Profiler lets us follow memory usage and computes current consumption associated with a program execution.

Project management

An efficient project management is included in CoolRide. Sources are organized by categories, CoolRide takes care of compilation settings for C and assembler files as well as for linker and debugger.

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Printed in Switzerland.

Emulator (XE8000HaCE)

Introduction

The emulator (XE8000HaCE) models the complete XE8000 CoolRISC816 CPU core, with its memories. Digital peripherals (counters, UART, prescaler, etc.) are modelled by the included peripheral card.

The emulator is directly supported by the CoolRide development tools.

The hardware core emulator connects to a PC through a SCSI or serial connection. Software to be emulated is downloaded on the emulator and run in real time.

The emulator has extensive break point and trace capabilities. Visualisation of all the CPU registers is made through the CoolRide tools.

The peripheral card is programmed to emulate the digital peripherals of the XE8000 series.

Programmer (XE88LC05ProStart)

The ProStart is used to evaluate the capabilities of the XE88LC05 chip and to verify simple programs. It includes a regular XE88LC05M (multiple time programable version of the XE88LC05), that is a superset of the XE88LC03M.

The XE88LC05ProStart connects to a PC through a serial connection, the XE88LC05M is mounted on a zero insertion force socket for programming purpose.

Documentation

Documentation about the products and programming manuals are available on-line in the CoolRide tools, as well as on XEMICS web site at www.xemics.ch.

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