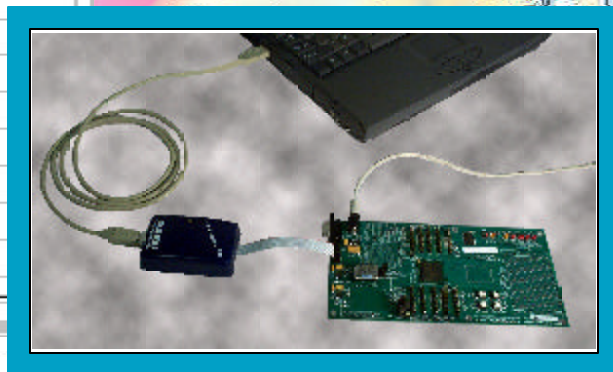
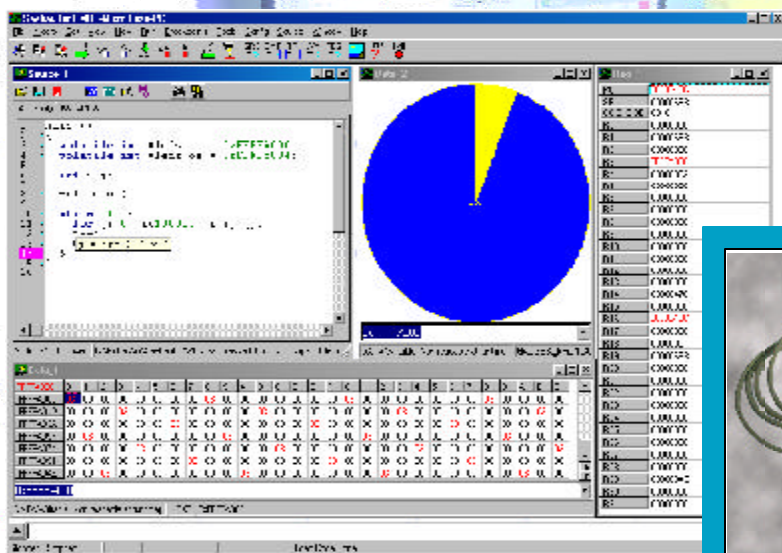


EMUL-MICROBLAZE-PC

In-Circuit Hardware Debugger for MicroBlaze™



Key Benefits

- ♦ Xilinx MicroBlaze Core for Virtex™-II and Spartan™-II/E is supported
- ♦ Works to the maximum core clock rate
- ♦ Seehau Windows User Interface is included. Seehau works with Windows 98, ME, 2000 and XP
- ♦ Connects to a standard 10-pin header on the target board, the parallel IV connector or the Xilinx JTAG programming cable
- ♦ Debugs through the JTAG port; derives emulator power from the target board to work with low voltage targets
- ♦ Connects to the host PC USB port for high speed communication and download
- ♦ GNU C compiler/assembler/linker included
- ♦ The Nohau Project Manager and integrated Source editor shorten the Edit-Compile-Debug loop
- ♦ High Level Language (HLL) support for the GNU-C compiler
- ♦ Optional development board supporting the Virtex-II or Spartan-II/E is available
- ♦ Execution trace, execution or data trigger
- ♦ Trace and trigger on up to eight signals in your design

Product Overview

Nohau offers a high speed debugger for the MicroBlaze Core from Xilinx. The EMUL-MICROBLAZE-PC emulator offers economical debugging for this core to its full rated speed. Seehau, the Windows user interface from Nohau, is standard and is included with the emulator hardware. Support Over IP™ provides operation over a TCP/IP (Internet or LAN) is included with Seehau.

Execution Trace and Trigger

The EMUL-MICROBLAZE-PC includes a trace that records the program execution while the program is running. The trace can be triggered by execution or data accesses to stop recording or simply record until you break execution. The trace has up to eight user pins that can connect to any signal in the FPGA design. The trace display window shows the address, opcode, disassembled instructions, the user pins and symbols. You can also view source code only, source and assembly or assembly only.

In-line Assembling and Compiling

Seehau allows in-line assembly. You can modify your assembly program and changes will be written to RAM. Modify your C or assembly code in the appropriate window and Seehau uses its powerful macro language to recompile with the GNU C compiler or assembler, reload and rerun, thus greatly reducing your edit-compile-debug loop times.

Data Windows

Data windows display data in many numerical and graphical formats. These options are selected with prompted menus. You can have as many different data windows as you like. You can change the captions and save custom windows as a macro file. They can then be recalled by clicking on an icon in the main toolbar that you can easily create.

What can you do with this In-Circuit Debugger ?

You can load a program, and single-step, or run the target processor. Source code will be available for HLL debugging. Other options include setting multiple software breakpoints, viewing memory, and loading a bit stream containing the MicroBlaze Core, code and your FPGA logic. Variables, arrays and structures can easily be viewed in a variety of formats. This hardware debugger has more features than a typical target resident monitor, particularly with its trace and trigger capability. Nohau emulators are Made in the USA.

See our website for more information and instructions on how to purchase a Nohau MicroBlaze emulator.

www.nohau.com



Cut Development Time

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