

PRESS RELEASE

CYPRESS ADDS NEW SYNTHESIS CAPABILITY, FPGA SUPPORT TO \$99 *WARP2*

Leading VHDL Programming Tool Now Supports All Cypress PLDs, CPLDs, and FPGAs

SAN JOSE, Calif., April 22, 1996 -- Cypress Semiconductor Corp. today introduced Release 4 of its highly popular, \$99 VHDL-based *Warp2* programmable logic design tool. *Warp2* Rel. 4 adds new, powerful synthesis technology that rivals high-end tools costing tens of thousands of dollars. It also adds support for Cypress's high-performance pASIC380 FPGAs. *Warp2* now supports all of Cypress's programmable logic offerings, including simple PLDs, MAX340 CPLDs and the UltraLogic(FLASH370 CPLDs and pASIC380 FPGAs. In the U.S., it is available for only \$99 by calling 1-800-WARP-VHDL (927-7843). Visa and Mastercard orders are accepted.

The new UltraGen(synthesis technology in *Warp2* Rel. 4 uses module generation that automatically searches VHDL source code for complex arithmetic and datapath operators (a "plus operator," for example) and replaces it with a hand-crafted circuit already optimized for the target device. This module is automatically generated without any user intervention, and gives users the benefit of Cypress's in-depth knowledge of VHDL and device architecture for maximum performance and/or area efficiency. In addition, UltraGen offers users increased control over synthesis. They can optimize portions of a design for speed and other portions for area utilization, and can even optimize individual signals.

Warp2 Rel. 4 generates both VHDL and Verilog simulation models for all Cypress programmable logic devices. These models allow users to simulate the in-system performance of the devices using industry-standard third-party software. The new software also includes an interactive, functional simulator to verify designs before programming of devices.

Cypress is the number one supplier of VHDL-based programmable logic software with over 8000 installed copies of *Warp* software. Cypress pioneered the concept of low-cost software tools for programmable logic with the introduction of *Warp2* for \$99 in November of 1994.

Norman Taffe, Cypress's product marketing manager for FPGAs, CPLDs, and software, notes, "As the first company to offer powerful, VHDL-based software for under \$100, Cypress has assumed a leadership role. Recent announcements of low-cost software by other programmable logic vendors point to the success of this strategy."

Norman Taffe continued, "As the only programmable logic vendor that has written its own VHDL synthesis, Cypress is in a unique position to offer high-quality, powerful tools at extremely low cost. The *Warp2* for \$99 program has been very effective in introducing design engineers to VHDL and to Cypress's PLDs and CPLDs. The addition of pASIC380 FPGA support and the UltraGen

synthesis technology solidify our leadership position. We expect increased interest in *Warp* and further design activity for our UltraLogic products."

In addition to the Windows 3.1 and Sun OS Workstation platform support previously provided by *Warp2*, Cypress has added support for Sun Solaris, Windows95, and Windows NT platforms in the new release. Support for HP workstations will be available in June.

The UltraLogic family includes the industry's fastest FPGAs, the pASIC380 and Ultra38000 families, and the highest performance CPLDs, the FLASH370 family. All are supported by the *Warp* design tools, giving users access to a broad range of CPLDs and FPGAs with a single, open development tool. UltraLogic offers inexpensive, industry-standard software that allows users to enter a design once, and then target to a choice of device architectures, offering maximum flexibility with short design cycles.

Price and Availability

Cypress is accepting orders now for the \$99 *Warp2* Rel. 4. Customers who ordered *Warp2* within the past year can upgrade to Release 4 for only \$49.

Cypress Semiconductor Corporation is an international supplier of high-performance integrated circuits with worldwide headquarters in San Jose, California. The company provides a broad range of products for leading computer, networking, and telecommunications companies worldwide. The company's product line includes static RAM and EPROM memories, programmable logic devices (PLDs), field-programmable gate arrays (FPGAs), data communications products, personal computer chipsets and timing devices. Cypress shares are listed on the New York Stock Exchange under the symbol CY. The company has a site on the worldwide web at <http://www.cypress.com>, and offers a fax-on-demand service at (800) 213-5120 or (408) 943-2798 outside North America.

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