

OCDemon™

MACRAIGOR SYSTEMS

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High-Speed USB 2.0 Device for JTAG/BDM Debugging Now Available From Macraigor Systems

***usb2Demon Fully Compatible with Industry-Leading Software Debuggers
and Microprocessor Architectures***

BOSTON, MA—September 13, 2004—Macraigor Systems, an on-chip debug (OCD) industry leader, today introduced usb2Demon, a new high-speed Universal Serial Bus (USB) 2.0 device for JTAG (IEEE Standard 1149.1) or background debug mode (BDM). usb2Demon provides embedded systems developers with the most cost-sensitive, high-performance interface available for target OCD. The usb2Demon application programming interface (API) is fully compatible with industry-leading software debuggers, including the GNU tools suite (GCC, GAS and GDB).

“Combining the speed and flexibility of USB 2.0 with Macraigor Systems’ OCD technology gives us just the product we need. We are excited about usb2Demon because of the high performance, convenience and compatibility it provides us and our customers,” said Michael Kelly, vice president of engineering for Cogent Computer Systems, Inc. “We find the development of our boards is greatly enhanced by the flexibility offered by the Macraigor tools.”

Based on Macraigor’s proprietary OCD technology, usb2Demon operates as a converter of OCD commands. The Windows host PC communicates with usb2Demon via industry-standard high-speed USB 2.0 protocol to the proper OCD signals required by the target. The target port may be JTAG, E-JTAG, OnCE, COP, BDM or any of several other supported connections.

—more—

A dedicated JTAG controller significantly increases throughput performance. Combining the superior performance of USB 2.0 with the ability to clock the target at up to 24 MHz creates a very powerful debug solution. With higher clock speeds, information is transmitted and received from the target board more efficiently for setting breakpoints, single stepping, tracing, diagnosing problems and performing other target communications.

usb2Demon also offers flexibility and connection options. With newer laptops shipping sans parallel port, USB is becoming the primary option for portable debugging. "usb2Demon satisfies our price-sensitive customers who have been asking for a higher-performance, portable debugging solution," said chief engineer Craig Haller of Macraigor Systems LLC. "This product meets their needs while maintaining compatibility for third parties who have ported to Macraigor's APIs."

Pricing & Availability

usb2Demon will be available fourth quarter 2004 with a list price of \$750 USD. OCD Commander, an assembly-level software debugger and the GNU tools suite are available at no charge from the Macraigor website.

About Macraigor Systems

Macraigor Systems is a leading supplier of BDM/JTAG connection solutions for on-chip debugging of 32 and 64-bit embedded microprocessors. Macraigor Systems' solutions are designed for price-sensitive customers. These solutions include a suite of software tools that supports Windows 9x, NT, ME, XP, Linux and Solaris host systems.

Macraigor Systems supports all major embedded microprocessor architectures, including AMD, ARM, CPU32 Series, PowerPC, MIPS and the XScale microarchitecture.

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