

OCDemon™

MACRAIGOR SYSTEMS

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Macraigor Systems On-Chip Debug Technology Selected for Intel's IQ80315 Software Development Kit and Support for IOP331 I/O Processor

***Accelerates Development of I/O Software for Next-Generation
Storage, Networking and Telecommunications Applications***

INTEL DEVELOPER FORUM—SAN FRANCISCO, CA—February 17, 2004—Macraigor Systems LLC today announced that OCDemon, the company's industry-leading on-chip debug (OCD) technology, was selected for Intel's IQ80315 Software Development and Processor Evaluation Kit and is also available for the IOP331 I/O processor. OCDemon offers the industry's most advanced, yet price-sensitive solution for design, debug and programming of hardware designs and application software.

Brian Handley, chief engineer for Macraigor Systems LLC explained, "Many storage, networking, and embedded applications require fast I/O throughput for optimal performance. The Intel XScale IOP331 processor allow servers, workstations and storage subsystems to transfer data faster, reduce communication bottlenecks, and improve overall system performance by offloading I/O processing functions from the host CPU. The OCDemon technology from Macraigor Systems is an integral part of the IQ80315 development kit because it is a proven on-chip debug solution that will help to accelerate our customer's development of I/O application development."

The OCDemon product family consists of three performance- and cost-sensitive solutions for on-chip debug, eliminating the need for target resources such as UARTS, Ethernet channels or parallel ports:

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- mpDemon is a multi-port, on-chip debugger that provides embedded systems developers with the most advanced and intelligent target interface available for target on-chip debug. The mpDemon offers several connection choices for either JTAG or BDM debug and supports parallel port, RS-232 and Ethernet for the host connection and is compatible with Windows and Linux debuggers.
- The Raven is mid-priced and operates as a parallel to serial and serial to parallel converter for OCD signals. The host PC communicates with the Raven via the EPP mode of the parallel port.
- The Wiggler is a low-cost, stable and easy to use device that primarily acts as a signal buffer. Standard PC parallel ports are specified at LSTTL voltage levels, translating the voltages as appropriate.

The Wiggler and the Raven both interface to the parallel port of a Windows-based host with the other connector attaching to an OCD port of the target system. This port may be JTAG, E-JTAG, OnCE, COP, BDM or any of several other types of connections.

Intel XScale I/O Solutions

The Intel IQ80315 software development and processor evaluation kit, featuring dual Intel 80200 processors and an Intel 80314 companion chip, provides a cost-effective platform solution for rapid I/O application software development. The Intel 80314 is especially well suited for high-performance storage applications such as RAID adapter cards (Fibre Channel, SCSI, Serial-ATA), network storage target devices (NAS, iSCSI) and intelligent network adapter cards (iSCSI, IPv4, IPv6, IPSec).

The Intel IOP331 is a highly integrated I/O system on a chip for I/O-intensive storage, networking, communications, and embedded applications. The IOP331 features an 800 MHz CPU, high-performance internal bus, dual-ported memory controller, a high-bandwidth PCI-X to PCI-X Bridge, and an improved interrupt controller to provide a high-performance, highly integrated processor solution. Target applications include PCI/PCI-X host-based adapters (RAID cards, iSCSI cards, FC cards, Security/SSL NICs, etc), control plane and system controller applications utilizing

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PCI/PCI-X as a system interconnect and/or backplane Virtual Private Network devices, video servers, Network gateways, Network Attached Storage, External Storage Arrays), PCI/PCI-X-based line cards (VoIP, Routers, etc.), and a host of other applications that require a highly integrated, high-performance system on a chip processor.

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, which 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. Macraigor Systems is a member of the Intel® Personal Internet Client Architecture Developer Network and the Intel Internet Exchange Architecture Developer Network, programs within the Intel Communications Alliance.

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