

**For Immediate Release  
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## **Macraigor Systems announces new high speed debugging tool; includes Ethernet, parallel and serial ports in one unit**

*mpDemon™ is fully compatible with all software debuggers and microprocessor architectures currently supported by Macraigor Systems*

**EMBEDDED SYSTEMS CONFERENCE, Chicago, Illinois, June 3, 2002** – Macraigor

Systems today introduces the mpDemon, a new high speed debugging tool built on Macraigor's proprietary On-Chip Debug Technology (OCDemon™). mpDemon includes 10BaseT Ethernet, parallel and serial interfaces to the host system. Having three connection types provides development engineers maximum flexibility when debugging their target board and applications. In addition to this increased speed and flexibility, mpDemon is still designed for Macraigor's price-sensitive customers by being priced much lower than comparable products.

mpDemon operates at a very high speed, downloading binary files to the target at about three times the speed of Macraigor's Raven product. This higher performance is possible because of an embedded 32-bit microprocessor, which significantly increases JTAG throughput. With higher clock speeds, information goes to and from the target board much faster, increasing binary downloads, single stepping and other target communications.

mpDemon works with the existing applications programming interfaces from Macraigor Systems. This means the mpDemon is completely compatible with the wide selection of software debuggers and microprocessor architectures that are supported by Macraigor's product line. One example of this is the Mentor Graphics® code|lab™ Debug. "We are excited about the mpDemon because of the high performance and compatibility it provides to our customers," said Neil Henderson, general manager for the Embedded Systems Division of Mentor Graphics. "As a

tool, mpDemon has the highest value to price ratio in the embedded industry. The fact that it was created using our Nucleus products only strengthens our confidence in its capabilities.”

In addition to support from many industry-leading debuggers, Macraigor supplies a free port of the GNU tools suite (GCC, GAS, and GDB) and a free copy of the OCD Commander, an assembly level software debugger. Both applications are downloadable from the Macraigor web site.

The mpDemon also increases flexibility for users by being both field upgradeable and having interchangeable personality modules. Flash memory within the mpDemon stores the firmware, which can be upgraded or changed if necessary. The interchangeable personality modules allow users to easily migrate from one target to another by replacing their JTAG connection cable. Other features of the mpDemon include debugging from a remote location, auto-sensing voltage capabilities and LED status indicators. The list price of the mpDemon is \$1800.

“mpDemon satisfies our price-sensitive customers who have been asking for a higher performance debugging solution” said Managing Partner Craig Haller. “This product meets their needs, while maintaining compatibility for the third parties who have ported to Macraigor’s applications programming interfaces.”

#### 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, ColdFire, CPU32 Series, PowerPC, MIPS, and the XScale™ microarchitecture.

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