



## **Integrated Device Technology** *Fact Sheet*

# **IDT Orion™ 4640™ MIPS RISC PROCESSOR Development Tools**

Availability: January, 1996  
Literature: Advantage IDT™ Tools Catalog

For more information, call: 408-654-6454

### **IDT Development/Evaluation Board**

IDT provides the 79S465 development kit for designers to evaluate and benchmark the R4640 hardware and software environment. The kit includes a 79S465 evaluation board, a completely functional RISC system intended as a platform for the development and porting of software to the R4640. The kit also contains a wide variety of tools to assist in processor evaluation including IDT/c and IDT/sim (a ROM resident debugging monitor).

### **IDT/c GNU Compiler Toolchain**

The IDT/c 6.5 compiler toolchain, a multi-host GNU C-compiler system, provides complete support for the R4640. The system includes a GNU compiler, assembler, linker, debugger, librarian, and ANSI libraries. The toolchain provides a full development environment, including start-up code, cache, and exception management routines, as well as an efficient software floating point emulation library tailored to the R4640.

### **Green Hills Compiler Toolchain**

The Green Hills Software compiler suite for the R4640 includes C, C++, Fortran, Pascal, and ADA. The MULTI development environment, a framework of interaction tools to support program development, and the SimMips instruction set simulator are also available.

### **Hewlett-Packard Logic Analyzer**

Corelis, Inc. has developed a new preprocessor that allows for easy connection of target boards to Hewlett-Packard's family of logic analyzers. Included software sets up the format specification menu of the logic analyzer for processor compatibility and load an inverse assembler.

### **Tektronix Logic Analyzer**

Logic analyzer support for the R4640 is also available for the Tektronix DAS 9200. Developed by Crescent Heart Software, the new probe adapter and disassembly software is available through Emulation Technology's distribution channels.

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### **Wind River VxWorks Real-Time Operating System**

The VxWorks integrated cross-development environment from Wind River Systems provides a full range of real-time features including the high-performance, multi-tasking *wind* kernel. A board support package for the IDT79S465 evaluation board is also available.

### **Integrated Systems Provides pSOS**

Integrated Systems' pSOSystem real-time operating system for the 4640 includes a board support package for the IDT79S465 evaluation board and is founded on the fast, efficient pSOS and kernel. The pSOS kernel is fully pre-emptible, re-entrant, multi-tasking and deterministic.

### **CAE Technology 4640 Bus Model**

CAE Technology's verilog bus functional model of the R4640 provides support for all R4640 protocols, full bus mastership/arbitration, single reads/writes and burst reads. Verilog source code is provided for the R4640 model providing ultimate project control.

### **Electronic Media Program**

More information about IDT and its products is easily accessible through IDT's comprehensive electronic media program, which includes free CD-Roms by calling (800) 345-7015, a Home Page on the World Wide Web (<http://www.idt.com>), and fax-on-demand services by calling (800) 9-IDT-FAX. For more information about these services, call (800) 345-7015.