

## C EXECUTIVE and PSX Real-Time, Multitasking Kernels

- Real-Time, Multitasking, ROMable Kernels Optimized for C Language
- Fast System Call Mechanism for C Programs
- Fully Prioritized, Preemptive Scheduler Based on Interrupts
- Multiple Methods of Inter-Task Communication, Including Semaphores, Events, Queues, and Signals
- 62 System Calls for Scheduling, Interprocess Communication, Process Creation and Control, and I/O
- Romable, Reentrant Portable C Library of 100 Functions
- Optional DOS Compatible File System – CE-DOSFILE
- Optional TCP/IP and SNMP
- System Level Debugger, CE-VIEW, Allows Dynamic System Testing
- Full Set of Device Drivers for Standard Intel 80386/80486/Pentium® Processors and 80x86 Target Boards Included at No Extra Cost

Window terminals, medical instruments, SCADA systems, process control products, color ink jet printers, cellular telephone systems, electronic cash registers, hand-held electronic instruments, Marine helicopter avionics, and a variety of time-critical applications.

An optional DOS-compatible file system, CE-DOSFILE, supports both floppy and hard disks, with contiguous files. A TCP/IP communications package is also available.

JMI's PSX option adds 57 POSIX.1 system calls to C EXECUTIVE, providing a UNIX-like execution environment on a dedicated real-time kernel. When a POSIX environment is needed and UNIX is too big, PSX provides a small single-user, single-group, but multi-process subset of POSIX for deeply embedded applications. A UNIX workstation can be used for prototyping the application.

HOST SYSTEMS SUPPORTED:  
Any host (DOS, Windows\*, UNIX) with C cross (or native) compiler

PROCESSORS SUPPORTED:  
All Intel 80x86, including 80186/188, 80C186/188, 80386/80486 and Pentium® processors 100/133/166 MHz

CONTACT:  
Sales Department  
JMI Software Systems, Inc.  
904 Sheble Lane  
P. O. Box 481  
Spring House, PA 19477  
Phone: (215) 628-0840  
FAX: (215) 628-0353  
e-mail: [inquiries@jmi.com](mailto:inquiries@jmi.com)  
WWW: <http://www.mcb.net/jmi>

C EXECUTIVE is a real-time, multitasking kernel for embedded applications. It provides support for the entire range of Intel 80x86 microprocessors. The C EXECUTIVE version for the 8086 (real mode) was offered in 1982; JMI has supported 80386 in protected mode since 1987; the 80186/188 microprocessor version has been available since 1981; and the 386EX version was completed in 1994.

C EXECUTIVE provides a complete and efficient run-time environment optimized for C language. C EXECUTIVE is ready to run on standard PC's, yet does not use any DOS or BIOS code. This allows prototyping on a standard PC, then downloading to an embedded 80x86 board. A complete debugging environment is available using standard software tools.

Customer products employing C EXECUTIVE on 80x86 processors include X

