The CMX PCProto-RTX*

- Supports Intel 8051, 80151, 80251, 80196 Microcontrollers
- Enhances Debugging of Intel Microcontrollers
- Allows Use of PC For Development
- Use Powerful Tools, Such as Borland or Microsoft
- Develop Code Without Hardware Present
- All Features of CMX-RTX* Are Present
- Ability to Simulate Intel Target Processor
- Provides Target Independent Development
- Use PC Screen With CMXBug and CMXTracker

The CMX PCProto-RTX Real-Time Multi-Tasking Operating System is basically the CMX-RTX RTOS ported specifically to work with the PC and it's environment. This allows Intel386[™], Intel486[™] and Pentium[®] processor based PCs to be used as a development platform, regardless of which of the Intel target processor they will using.

PCProto-RTX allows the user to write, develop and test their application code using the sophisticated and enhanced tools that are available for the PC, such as the tools offered by Borland and Microsoft. Because many programmers are familiar with and have used the PC, this allows them to get their application code up and running faster, then possibly working with the target cross compiler and processor. Also, the enhanced capabilities that the PC tools provide are usually better then the tools that are available for the target processor.

All features that are supplied with CMX-RTX are included in the PCProto-RTX. The functions allow the user to control task scheduling, task management, timer management, event management, message management, memory management, resource and semaphore management,

CMX PCProto-RTX* Demo Task 1 Active Task 1 is reading a file from disk. **PCProto-RTX** allows the user to write, develop and test their application code on a PC with Borland or Microsoft "C" tools, regardless of their target processor. - Task 2 Active -- Task 3 Active -Task 2 is sending messages to Task 3 is receiving messages from Mailbox number 1. Mailbox number 1. Message sent is "Test Message" Message received is "Test Message" Task 4 Active : Task 5 Active Task 4 is showing interrupts Task 5 is handling the keyboard. by display the '*' character. Task 1 time delay = 5Task 2 time delay = 8Task 3 time delay = 15Use up/down arrow keys to select task. Use left/right arrow keys to select time delay. S/s key to stop.

queue management, system management and UART management.

CMX allows nested interrupts, with the ability of an interrupts to use some of the CMX functions. True preemptive scheduling is provided with cooperative scheduling and timeslicing available if needed. Both tasks and interrupts can cause a context switch, thus allowing a higher priority task that is able to run and immediately become the running task.

MICROCONTROLLERS SUPPORTED:

8xC196Kx, 8xC196Mx, 8xC196Nx, 8xC3x, 8xC5x, 80C51FA/RA/GB/BH/ SLAH/SLAL, 87C51FA/FB/RA/RB/RC/ GB/SLAH/SLAL, 83L51/FA/FB/FC, 87L51/FA/FB/FC, 83C51RA/RB/RC/GB/ KB/FA/FB/FC/SLAH/SLAL, 8xC152Jx, 8xC151Sx, 81C51SLAH/SLAL, 8xC251Sx, 82930A DEVELOPMENT PLATFORMS: PC, SUN PC/Windows

AVAILABILITY:

Now

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