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**MSP430 Enhanced Emulation Module**

# Advanced Debugging Using The Enhanced Emulation Module Eem

**Raimondas Lencevicius**



## **Advanced Debugging Using The Enhanced Emulation Module Eem:**

*MSP430 Microcontroller Basics* John H. Davies, 2008-08-21 The MSP430 microcontroller family offers ultra low power mixed signal 16 bit architecture that is perfect for wireless low power industrial and portable medical applications This book begins with an overview of embedded systems and microcontrollers followed by a comprehensive in depth look at the MSP430 The coverage included a tour of the microcontroller s architecture and functionality along with a review of the development environment Start using the MSP430 armed with a complete understanding of the microcontroller and what you need to get the microcontroller up and running Details C and assembly language for the MSP430 Companion Web site contains a development kit Full coverage is given to the MSP430 instruction set and sigma delta analog digital converters and timers

*Microcontrollers* Atul P. Godse, Dr. Deepali A. Godse, 2020-12-01 The book is written for an undergraduate course on the 8051 and MSP430 microcontrollers It provides comprehensive coverage of the hardware and software aspects of 8051 and MSP430 microcontrollers The book is divided into two parts The first part focuses on 8051 microcontroller It teaches you the 8051 architecture instruction set programming 8051 and interfacing 8051 with external memory It explains timers counters serial port interrupts of 8051 and their programming It also describes the interfacing 8051 with data converters ADC and DAC keyboards LCDs LEDs stepper motors and DC motor interfacing The second part focuses on MSP430 microcontroller It teaches you the low power features architecture instruction set programming digital I O and on chip peripherals of MSP430 It describes how to use code composer studio for assembly and C programming It also describes the interfacing MSP430 with external memory LCDs LED modules wired and wireless sensor networks

*Advanced Debugging Methods* Raimondas Lencevicius, 2000-08-31 Object relationships in modern software systems are becoming increasingly numerous and complex and program errors due to violations of object relationships are difficult to detect Programmers need new tools that allow them to explore objects in a large system more efficiently and to detect broken object relationships instantaneously Such tools incorporate approaches used in such areas as data visualization pattern matching and extraction database querying active databases and rule based programming The query based debugging approach developed by the author of this book is another powerful yet efficient tool to be added to the developer s tool chest *Advanced Debugging Methods* presents practice and tools for debugging computer programs This book proposes new powerful approaches that simplify the daunting task of debugging complex software systems Although debugging has been addressed in numerous research papers many of its methods have yet to be explored in a book length format This book helps to fill this gap by presenting an overview of existing debugging tools with motivating examples and case studies as well as presenting new state of the art debugging methods *Advanced Debugging Methods* will be of use to software developers looking for tools to be applied in cutting edge practice system architects looking at the relationship between software design and debugging tools and programming language researchers looking for new ideas in run time tool implementation as well as detailed

descriptions of advanced implementations and university professors and graduate students who will use this book as supplementary reading for graduate courses in programming tools language implementation and advanced object oriented systems Advanced Debugging Methods is also a handy reference of currently existing debugging methodologies as well as a springboard for cutting edge research to simplify the difficult task of debugging and to facilitate the development of more robust software systems

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