



Embedded Co-Design for Real Time Operating System

By Sheeba Rani S.

LAP Lambert Academic Publishing Apr 2018, 2018. Taschenbuch. Condition: Neu. Neuware - The Real-time applications, which require fast response and high synchronization, are becoming popular. Unfortunately, RTOS can introduce significant performance degradation. To enhance the predictability of the real-time systems, implementing critical operating system functionalities, like time management and task scheduling, from software to hardware can enhance the performance of RTOS systems. This book presents the Real-Time Task Manager (RTM)-a processor extension that minimizes the performance drawbacks associated with RTOS. Through extensive analysis of several realistic models of real-time systems, the RTM is shown to be highly effective at minimizing RTOS performance loss. it decreases the processing time used by RTOS up to 90%. This book portraits the intricacies of the hardware-software codesign for real-time operating system delving into the above performance metrics. 52 pp. Englisch.



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