

## Design of Embedded WEB Remote Monitoring System Based on $\mu$ C/OS-II Operating System

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**Abstract:** Isolating embedded system has not been adapted to current development tendency. More and more embedded systems need networking for communicating with each other.  $\mu$ C/OS-II, which is a typical embedded real time operating system and contains a kernel without network protocol, has been widely used in a large number of embedded systems. So it is of significance to join network protocol into  $\mu$ C/OS-II. In this paper, a networking method is proposed to embedded equipments based on  $\mu$ C/OS-II. LPC2200 based on ARM7TDMI-S is used as the core of hardware platform,  $\mu$ C/OS-II embedded real-time operating system and LwIP (Light Weight IP) are used as software platform, ADS1.2 as compiler. Through the realization of files that are related to the processor LPC2200, the porting of  $\mu$ C/OS-II into ARM7 is implemented. Through the realization of the LwIP operating system emulation layer and realization network chip RTL8019/AS driver, the porting of LwIP into  $\mu$ C/OS-II is implemented. On these foundations, a remote monitoring application is successfully developed. Experiment results show that proposed approach can be successfully used for embedded equipments networking control.

**Keywords:** embedded system; LwIP;  $\mu$ C/OS-II.

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### 1. Introduction

Embedded system [1] has been widely used in various fields. The import of embedded operating system can enable embedded systems to administer all kinds of resources, run system correctly and steadily, provide bottom interfaces to upper soft, and be convenient for secondary development.

In recent years, with the rapid development of communications technology and internet and progress of embedded technology, embedded system has a great influence on human, and changes human's future life style. But the isolating embedded system has not been adapted to current development tendency. Since more and more needs such as "remote monitoring" [2] and "smart home appliances" [3] are put forward, embedded devices should not only have the traditional con-

trol, monitor, auxiliary equipment, machinery and equipment operation function, but also be connected to the Internet, make full use of network resources to realize remote monitoring, remote control and wider range of information sharing and intelligent data processing functions. So the use of operating system and network protocol in embedded systems is of vital and practical significance.

$\mu$ C/OS-II [4] is a multitask real time operating system with open source code which is written by Jean J. Labrosse.  $\mu$ C/OS-II is a high-performance kernel and its instantaneity is guaranteed.  $\mu$ C/OS-II operating system reduces the complexity of program and makes the design and maintenance of application system simple [5].  $\mu$ C/OS-II operating system can be used in the 8-bit processors, the 16-bit processors and the 32-bit processors. The functions of  $\mu$ C/OS-II op-

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for physical system modeling energy and power actuation signal processing and control In addition these engineers may be designing and implementing life critical systems without appropriate formal training in CPS methods needed for verification and to assure safety reliability and security A workforce with the appropriate education training and skills will be better positioned to create and manage the next generation of CPS solutions A 21st Century Cyber Physical Systems Education examines the intellectual content of the emerging field of CPS and its implications for engineering and computer science education This report is intended to inform those who might support efforts to develop curricula and materials faculty and university administrators industries with needs for CPS workers and current and potential students about intellectual foundations workforce requirements employment opportunities and curricular needs Emerging Topics in Hardware Security Mark Tehranipoor,2021-04-30 This book provides an overview of emerging topics in the field of hardware security such as artificial intelligence and quantum computing and highlights how these technologies can be leveraged to secure hardware and assure electronics supply chains The authors are experts in emerging technologies traditional hardware design and hardware security and trust Readers will gain a comprehensive understanding of hardware security problems and how to overcome them through an efficient combination of conventional approaches and emerging technologies enabling them to design secure reliable and trustworthy hardware *Design Space Exploration and Resource Management of Multi/Many-Core Systems* Amit Kumar Singh,Amlan Ganguly,2021-05-10 The increasing demand of processing a higher number of applications and related data on computing platforms has resulted in reliance on multi many core chips as they facilitate parallel processing However there is a desire for these platforms to be energy efficient and reliable and they need to perform secure computations for the interest of the whole community This book provides perspectives on the aforementioned aspects from leading researchers in terms of state of the art contributions and upcoming trends

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