

Design of Embedded WEB Remote Monitoring System Based on μ 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. μ 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 μ C/OS-II. In this paper, a networking method is proposed to embedded equipments based on μ C/OS-II. LPC2200 based on ARM7TDMI-S is used as the core of hardware platform, μ 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 μ 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 μ 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; μ C/OS-II.

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.

μ C/OS-II [4] is a multitask real time operating system with open source code which is written by Jean J. Labrosse. μ C/OS-II is a high-performance kernel and its instantaneity is guaranteed. μ C/OS-II operating system reduces the complexity of program and makes the design and maintenance of application system simple [5]. μ 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 μ C/OS-II op-

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Handbook of Research on Embedded Systems Design Bagnato, Alessandra, Indrusiak, Leandro Soares, Quadri, Imran Rafiq, Rossi, Matteo, 2014-06-30 As real time and integrated systems become increasingly sophisticated issues related to development life cycles non recurring engineering costs and poor synergy between development teams will arise The Handbook of Research on Embedded Systems Design provides insights from the computer science community on integrated systems research projects taking place in the European region This premier references work takes a look at the diverse range of design principles covered by these projects from specification at high abstraction levels using standards such as UML and related profiles to intermediate design phases This work will be invaluable to designers of embedded software academicians students practitioners professionals and researchers working in the computer science industry

Cyber-Physical Systems Danda B. Rawat, Joel J.P.C. Rodrigues, Ivan Stojmenovic, 2015-10-28 Although comprehensive knowledge of cyber physical systems CPS is becoming a must for researchers practitioners system designers policy makers system managers and administrators there has been a need for a comprehensive and up to date source of research and information on cyber physical systems This book fills that need Cyber Physical Syst

Engineering Safe and Trustworthy Cyber Physical Systems Martin Fränzle, Jürgen Niehaus, Bernd Westphal, 2025-09-30 This Festschrift is dedicated to Werner Damm a pioneering researcher and practitioner in cyber physical systems Werner received his PhD in 1981 from RWTH Aachen and held the Chairs for Computer Architecture and Safety Critical Systems at Carl von Ossietzky Universität Oldenburg from where he coordinated foundational research projects such as the Collaborative Research Center Automatic Verification and Analysis of Complex Systems AVACS funded by the German Science Foundation He has been a founder or board member of many projects associations companies and events including the applied research institute OFFIS BTC Embedded Systems providing testing solutions for automotive systems SafeTRANS a non profit industrial and academic association coordinating strategies and knowledge transfer in the area of safety relevant systems and numerous conferences He has been a scientific board member or expert advisor to the German Institute for Artificial Intelligence DFKI the ECSEL and Artemis public private partnerships of the European Commission the German Aerospace Center DLR the Helmholtz Association and the US National Science Foundation He is a member of the German National Academy of Technical Sciences acatech Werner Damm s work has spanned mathematical models of embedded systems systems of systems cyber physical systems specification languages hybrid discrete continuous systems formal verification methods automatic synthesis from formal specifications and analysis of real time and safety critical behavior complemented by applied research with industrial partners in avionics automotive space and medical systems Throughout his career he has been motivated to render digitally controlled systems safe societally acceptable and beneficial The contributions in this volume reflect how he has inspired many researchers and practitioners across disciplines who share this ambition

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Gnana Swathika, K. Karthikeyan, 2025-04-02 *Technological Breakthroughs in Modern Wireless Sensor Applications* Sharif, Hamid, Kavian, Yousef S., 2015-03-31 Collecting and processing data is a necessary aspect of living in a technologically advanced society Whether it's monitoring events controlling different variables or using decision making applications it is important to have a system that is both inexpensive and capable of coping with high amounts of data Technological Breakthroughs in Modern Wireless Sensor Applications brings together new ways to process and monitor data and to put it to work in everything from intelligent transportation systems to healthcare to multimedia applications This book is an essential reference source for research and development engineers graduate students academics and researchers interested in intelligent engineering internetworking routing and network planning algorithms **Securing Cyber-Physical Systems** Al-Sakib Khan Pathan, 2015-10-06 Think about someone taking control of your car while you're driving Or someone hacking into a drone and taking control Both of these things have been done and both are attacks against cyber physical systems CPS Securing Cyber Physical Systems explores the cybersecurity needed for CPS with a focus on results of research and real world deploy *Comprehensive Energy Systems* Ibrahim Dincer, 2018-02-07 Comprehensive Energy Systems Seven Volume Set provides a unified source of information covering the entire spectrum of energy one of the most significant issues humanity has to face This comprehensive book describes traditional and novel energy systems from single generation to multi generation also covering theory and applications In addition it also presents high level coverage on energy policies strategies environmental impacts and sustainable development No other published work covers such breadth of topics in similar depth High level sections include Energy Fundamentals Energy Materials Energy Production Energy Conversion and Energy Management Offers the most comprehensive resource available on the topic of energy systems Presents an authoritative resource authored and edited by leading experts in the field Consolidates information currently scattered in publications from different research fields engineering as well as physics chemistry environmental sciences and economics thus ensuring a common standard and language *Encyclopedia of E-Health and Telemedicine* Cruz-Cunha, Maria Manuela, Miranda, Isabel Maria, Martinho, Ricardo, Rijo, Rui, 2016-05-04 Patients and medical professionals alike are slowly growing into the digital advances that are revolutionizing the ways that medical records are maintained in addition to the delivery of healthcare services As technology continues to advance so do the applications of technological innovation within the healthcare sector The Encyclopedia of E Health and Telemedicine is an authoritative reference source featuring emerging technological developments and solutions within the field of medicine Emphasizing critical research based articles on digital trends including big data mobile applications electronic records management and data privacy and how these trends are being applied within the healthcare sector this encyclopedia is a critical addition to academic and medical libraries and meets the research needs of healthcare professionals researchers and medical students **Wearable Sensors** Edward Sazonov, 2014-08-14 Written by industry experts this book aims to provide you with an understanding of how to

design and work with wearable sensors Together these insights provide the first single source of information on wearable sensors that would be a valuable addition to the library of any engineer interested in this field Wearable Sensors covers a wide variety of topics associated with the development and application of various wearable sensors It also provides an overview and coherent summary of many aspects of current wearable sensor technology Both industry professionals and academic researchers will benefit from this comprehensive reference which contains the most up to date information on the advancement of lightweight hardware energy harvesting signal processing and wireless communications and networks Practical problems with smart fabrics biomonitoring and health informatics are all addressed plus end user centric design ethical and safety issues Provides the first comprehensive resource of all currently used wearable devices in an accessible and structured manner Helps engineers manufacture wearable devices with information on current technologies with a focus on end user needs and recycling requirements Combines the expertise of professionals and academics in one practical and applied source

Mobile Cloud Computing Meikang Qiu, Keke Gai, 2017-05-12 Mobile Cloud Computing Models Implementation and Security provides a comprehensive introduction to mobile cloud computing including key concepts models and relevant applications The book focuses on novel and advanced algorithms as well as mobile app development The book begins with an overview of mobile cloud computing concepts models and service deployments as well as specific cloud service models It continues with the basic mechanisms and principles of mobile computing as well as virtualization techniques The book also introduces mobile cloud computing architecture design key techniques and challenges The second part of the book covers optimizations of data processing and storage in mobile clouds including performance and green clouds The crucial optimization algorithm in mobile cloud computing is also explored along with big data and service computing Security issues in mobile cloud computing are covered in depth including a brief introduction to security and privacy issues and threats as well as privacy protection techniques in mobile systems The last part of the book features the integration of service oriented architecture with mobile cloud computing It discusses web service specifications related to implementations of mobile cloud computing The book not only presents critical concepts in mobile cloud systems but also drives readers to deeper research through open discussion questions Practical case studies are also included Suitable for graduate students and professionals this book provides a detailed and timely overview of mobile cloud computing for a broad range of readers

Dynamic Lines of Collaboration Hao Zhong, Shimon Y. Nof, 2019-12-03 This book focuses on the systematic modeling of complex situations characterized by escalating disruptions and on cycles of dynamic collaboration for the best handling of disruptions What can we do about disruptive events and their cascading effects Thanks to the evolution of intelligent technologies for interaction communication sharing and collaboration cyberspace is a rapidly expanding world Our systems of machines software services and human organizations have become increasingly interdependent in other words networked As a result disruptions that initially affect only a small part of any network tend to escalate At the same

time cyber solutions can support first responders and emergency handlers enhancing their responsiveness and ability to collaborate with one another in controlling disruptions and preventing their escalation In this book we are chiefly interested in how effectively these collaborations can be supported and how we can further optimize such support Solution guidelines for optimizing collaborations are illustrated with examples in various application domains agricultural robotics civil cyber physical infrastructure visual analytics manufacturing automation and supply chains Open source simulation tools are also provided to supplement the main content

Automotive Systems and Software Engineering Yanja Dajsuren, Mark van den Brand, 2019-07-17 This book presents the state of the art challenges and future trends in automotive software engineering The amount of automotive software has grown from just a few lines of code in the 1970s to millions of lines in today's cars And this trend seems destined to continue in the years to come considering all the innovations in electric hybrid autonomous and connected cars Yet there are also concerns related to onboard software such as security robustness and trust This book covers all essential aspects of the field After a general introduction to the topic it addresses automotive software development automotive software reuse E E architectures and safety C ITS and security and future trends The specific topics discussed include requirements engineering for embedded software systems tools and methods used in the automotive industry software product lines architectural frameworks various related ISO standards functional safety and safety cases cooperative intelligent transportation systems autonomous vehicles and security and privacy issues The intended audience includes researchers from academia who want to learn what the fundamental challenges are and how they are being tackled in the industry and practitioners looking for cutting edge academic findings Although the book is not written as lecture notes it can also be used in advanced master's level courses on software and system engineering The book also includes a number of case studies that can be used for student projects

A 21st Century Cyber-Physical Systems Education National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Computer Science and Telecommunications Board, Committee on 21st Century Cyber-Physical Systems Education, 2017-01-27 Cyber physical systems CPS are engineered systems that are built from and depend upon the seamless integration of computational algorithms and physical components CPS can be small and closed such as an artificial pancreas or very large complex and interconnected such as a regional energy grid CPS engineering focuses on managing inter dependencies and impact of physical aspects on cyber aspects and vice versa With the development of low cost sensing powerful embedded system hardware and widely deployed communication networks the reliance on CPS for system functionality has dramatically increased These technical developments in combination with the creation of a workforce skilled in engineering CPS will allow the deployment of increasingly capable adaptable and trustworthy systems Engineers responsible for developing CPS but lacking the appropriate education or training may not fully understand at an appropriate depth on the one hand the technical issues associated with the CPS software and hardware or on the other hand techniques

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

Software Architecture Carlos E. Cuesta,David Garlan,Jennifer Pérez,2018-09-19 This book constitutes the refereed proceedings of the 12th European Conference on Software Architecture ECSA 2018 held in Madrid Spain in September 2018 The 17 full papers presented together with 7 short papers were carefully reviewed and selected from 96 submissions They are organized in topical sections as follows Self Adaptive Architectures IoT Architectures Embedded and Cyber Physical Systems Microservices Architectures Service Oriented Architectures Architectural Design Decisions Software Architecture in Practice **Information Technology: New Generations** Shahram Latifi,2016-03-28 This book collects articles presented at the 13th International Conference on Information Technology New Generations April 2016 in Las Vegas NV USA It includes over 100 chapters on critical areas of IT including Web Technology Communications Security and Data Mining

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Emerging Innovations in Agile Software Development Ghani, Imran, 2016-01-26 Agile is a relatively recent methodology used in the development process of a project Therefore it is important to share new emerging knowledge with researchers and professionals interested in adopting an agile mindset Emerging Innovations in Agile Software Development focuses on the use of agile methodologies to manage design develop test and maintain software projects Emphasizing research based solutions for contemporary software development this publication is designed for use by software developers researchers and graduate level students in software engineering and project management programs

Smart Systems Integration and Simulation Nicola Bombieri, Massimo Poncino, Graziano Pravadelli, 2016-02-17 This book presents new methods and tools for the integration and simulation of smart devices The design approach described in this book explicitly accounts for integration of Smart Systems components and subsystems as a specific constraint It includes methodologies and EDA tools to enable multi disciplinary and multi scale modeling and design simulation of multi domain systems subsystems and components at all levels of abstraction system integration and exploration for optimization of functional and non functional metrics By covering theoretical and practical aspects of smart device design this book targets people who are working and studying on hardware software modelling component integration and simulation under different positions system integrators designers developers researchers teachers students etc In particular it is a good introduction to people who have interest in managing heterogeneous components in an efficient and effective way on different domains and different abstraction levels People active in smart device development can understand both the current status of practice and future research directions Provides a comprehensive overview of smart systems design focusing on design challenges and cutting edge solutions Enables development of a co simulation and co design environment that accounts for the peculiarities of the basic subsystems and components to be integrated Describes development of modeling and design techniques methods and tools that enable multi domain simulation and optimization at various levels of abstraction and across different technological domains

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