

Eighth Semester B.E. Degree Examination, June/July 2018
Real Time Operating Systems

Time: 3 hrs.

Max. Marks: 100

*Note: Answer any FIVE full questions, selecting
at least TWO questions from each part.*

PART – A

1.
 - a. Write any six key features that an RTOS should have. (06 Marks)
 - b. Explain briefly the history of embedded systems and write the pseudo code for basic real time service. (08 Marks)
 - c. Differentiate between pre-emptive and non-pre-emptive scheduling. (06 Marks)
2.
 - a. Using service utility function differentiate between the following. Also give an example for each:
 - (i) Hard real time service and isochronous service. (10 Marks)
 - (ii) Soft real time service and anytime service.. (10 Marks)
 - b. Write the state transition diagram and state transition table for a thread of execution including all possible states. (10 Marks)
3.
 - a. Explain RM-LUB sufficient feasibility test by taking the example of two services. (10 Marks)
 - b. Describe the algorithms for determination of N and S feasibility. (10 Marks)
4.
 - a. Explain the worst case execution time of a service. (10 Marks)
 - b. Explain execution efficiency and pipelining concept. (10 Marks)

PART – B

5.
 - a. Explain the dead lock and live lock. (10 Marks)
 - b. What is priority inversion? How an unbounded priority inversion can be converted to a bounded one. (10 Marks)
6.
 - a. Explain briefly the mixed hard and soft real time services. (10 Marks)
 - b. Describe the 3 Firmware components and any 3 RTOS system software mechanisms. (10 Marks)
7.
 - a. Explain the basic concepts of drill down tuning. (10 Marks)
 - b. Explain method to find path length, efficiency and calling frequency using C code to compute Fibonacci sequence. (10 Marks)
8.
 - a. With the help of a block diagram, explain low-end PIC micro MCU programmer. (12 Marks)
 - b. Write note on RTOS based digital clock and thermometer. (08 Marks)

Real Time Operating System Question Papers 10ec842

Dr. DK Sukhani



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Hands on Operating Systems 1500 MCQ Harry Chaudhary.,2018-08-15 Our 1500 Operating Systems questions and answers focuses on all areas of Operating Systems subject covering 100 topics in Operating Systems These topics are chosen from a collection of most authoritative and best reference books on Operating Systems One should spend 1 hour daily for 15 days to learn and assimilate Operating Systems comprehensively This way of systematic learning will prepare anyone easily towards Operating Systems interviews online tests examinations and certifications You can watch basic Operating Systems video lectures by visiting our YouTube channel IT EXAM GURUJI Highlights 1500 Basic and Hard Core High level Multiple Choice Questions Answers in Operating Systems with explanations Prepare anyone easily towards Operating Systems interviews online tests Government Examinations and certifications Every MCQ set focuses on a specific topic in Operating Systems Who should Practice these Operating Systems Questions Anyone wishing to sharpen their skills on Operating Systems Anyone preparing for aptitude test in Operating Systems Anyone preparing for interviews campus off campus interviews walk in interview company interviews Anyone preparing for entrance examinations and other competitive examinations All Experienced Freshers and Students Inside Operating System Basics 6 Processes 8 Process Control Block 10 Process Scheduling Queues 12 Process Synchronization 15 Process Creation 17 Inter Process Communication 19 Remote Procedure Calls 21 Process Structures 23 CPU Scheduling 26 CPU Scheduling Benefits 28 CPU Scheduling Algorithms I 31 CPU Scheduling Algorithms II 34 Critical Section CS Problem and Solutions 37 Semaphores I 39 Semaphores II 43 The Classic Synchronization Problems 46 Monitors 49 Atomic Transactions 51 Deadlock 54 Deadlock Prevention 56 Deadlock Avoidance 59 Deadlock Detection 63 Deadlock Recovery 65 Memory Management Swapping Processes I 67 Memory Management Swapping Processes II 70 Memory Management 73 Memory Allocation I 75 Memory Allocation II 78 Paging I 80 Paging II 83 Segmentation 86 I O System Application I O Interface I 89 I O System Application I O Interface II 92 I O System Kernel I O Subsystems 95 RTOS 97 Implementing RT Operating Systems 99 Implementing RT Operating Systems 101 Real Time CPU Scheduling I 103 Real Time CPU Scheduling II 106 Multimedia Systems 108 Multimedia System Compression I 110 Multimedia System Compression II 113 Multimedia System Compression III 115 CPU and Disk Scheduling 117 Network Management 119 Security User Authentication 122 Security Program and System Threats 125 Security Securing Systems and Facilities 129 Security Intrusion Detection 132 Security Cryptography 135 Secondary Storage 137 Linux 139 Threads 141 User and Kernel Threads 143 Multi Threading Models 146 The Fork and exec System Calls 148 Thread Cancellation 150 Signal Handling 152 Thread Pools 155 Virtual Memory 157 Virtual Memory Demand Paging 159 Page Replacement Algorithms I 162 Page Replacement Algorithms II 165 Allocation of Frames 168 Virtual Memory Thrashing 171 File System Concepts 174 File System Implementation 176 File System Interface Access Methods I 178 File System Interface Access Methods II 180 File System Interface Directory Structure I 182 File System Interface Directory Structure II 185 File System

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Real-Time Operating Systems Book 1 Jim Cooling, 2018-08-16 IMPORTANT This is a rebadged version of Real time

Operating Systems Book 1 The Theory which so far has received eleven 5 star one 4 star and one 3 star reviews This book deals with the fundamentals of operating systems for use in real time embedded systems It is aimed at those who wish to develop RTOS based designs using either commercial or free products It does not set out to give you a knowledge to design an RTOS leave that to the specialists The target readership includes Students Engineers scientists and mathematicians moving into software systems Professional and experienced software engineers entering the embedded field Programmers having little or no formal education in the underlying principles of software based real time systems The material covers the key nuts and bolts of RTOS structures and usage as you would expect of course In many cases it shows how these are handled by practical real time operating systems It also places great emphasises on ways to structure the application software so that it can be effectively implemented using an RTOS After studying this even the absolute beginner will see that it isn't particularly difficult to implement RTOS based designs and should be confident to take on such work **MCS-041:**

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Cooling,2019-01-28 This book deals with the fundamentals of operating systems for use in real time embedded systems It is aimed at those who wish to develop RTOS based designs using either commercial or free products It does not set out to give you a knowledge to design an RTOS leave that to the specialists The target readership includes Students Engineers scientists and mathematicians moving into software systems Professional and experienced software engineers entering the embedded field Programmers having little or no formal education in the underlying principles of software based real time systems The material covers the key nuts and bolts of RTOS structures and usage as you would expect of course In many cases it shows how these are handled by practical real time operating systems It also places great emphasises on ways to structure the application software so that it can be effectively implemented using an RTOS After studying this even the absolute beginner will see that it isn t particularly difficult to implement RTOS based designs and should be confident to take on such work

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questions and concepts are used in our daily programming work But these are most helpful when an Interviewer is trying to test your deep knowledge of Operating System concepts How will this book help me By reading this book you do not have to spend time searching the Internet for Operating System interview questions We have already compiled the list of the most popular and the latest Operating System Interview questions Are there answers in this book Yes in this book each question is followed by an answer So you can save time in interview preparation What is the best way of reading this book You have to first do a slow reading of all the questions in this book Once you go through them in the first pass mark the questions that you could not answer by yourself Then in second pass go through only the difficult questions After going through this book 2 3 times you will be well prepared to face a technical interview for Software Engineer position in Operating System What is the level of questions in this book This book contains questions that are good for a Associate Software engineer to a Principal Software engineer The difficulty level of question varies in the book from a Fresher to an Experienced professional What are the sample questions in this book What is a Real time system What is Virtual memory in OS What is multi processing in OS What is a Time sharing system What is a Thread in OS What are the advantages of multi threaded programming What is FCFS in OS What is Round Robin scheduling algorithm in OS What is a Deadlock in OS What are the necessary conditions for Deadlock to occur What is Banker

Real-Time Operating Systems Book 2 - the Practice Jim Cooling, 2017-11-28 There s something really satisfying about turning theory into practice bringing with it a great feeling of accomplishment Moreover it usually deepens and solidifies your understanding of the theoretical aspects of the subject while at the same time eliminating misconceptions and misunderstandings So it s not surprising that the the fundamental philosophy of this book is that theory is best understood by putting it into practice Well that s fine as it stands Unfortunately the practice may a bit more challenging especially in the field of real time operating systems First you need a sensible practical toolset on which to carry out the work Second for many self learners cost is an issue the tools mustn t be expensive Third they mustn t be difficult to get use and maintain So what we have here is our approach to providing you with a low cost toolset for RTOS experimentation The toolset used for this work consists of A graphical tool for configuring microcontrollers specifically STM32F variants STM32CubeMX software application An Integrated Development Environment for the production of machine code A very low cost single board computer with inbuilt programmer and debugger All software which is free can be run on Windows OSX or Linux platforms The Discovery kit is readily available from many electronic suppliers The RTOS used for this work is FreeRTOS which is integrated with the CubeMX tool The author Jim Cooling has had many years experience in the area of real time embedded systems including electronic software and system design project management consultancy education and course development He has published extensively on the subject his books covering many aspects of embedded systems work such as real time interfacing programming software design and software engineering Currently he is a partner in Lindentree Associates which he formed in 1998 providing consultancy and training for real time embedded

systems See www.lindentreeuk.co.uk *On Real-time Operating Systems* Shem-Tov Levi, Ashok K. Agrawala, 1987 Abstract This paper reviews the requirements for a distributed fault tolerant real time operating system Various aspects in addition to the scheduling are analyzed to emphasize the importance of developing such operating systems separately rather than modifying or building on top of regular ones **Engineering and Analysis of Real-time Operating Systems** Daniel Issac Katcher, 1994 **Real-time Operating Systems** John A. Stankovic, 1992 **Operating System (WBUT)** Rohit Khurana, Operating System is an insightful work that elaborates on fundamentals as well as advanced topics of the discipline It offers an in depth coverage of concepts design and functions of an operating system irrespective of the hardware used With neat illustrations and examples and presentation of difficult concepts in the simplest form the aim is to make the subject crystal clear to the students and the book extremely student friendly The book caters to undergraduate students of WBUT who would find the conceptual discussions highly informative and enriching Tailored as a guide for self paced learning the book equips budding system programmers with the right knowledge and expertise Key Features Case studies of Linux and Windows 2000 to put theory concepts into practice Points to Remember boxes for a quick recap Check your Progress questions running along the text to test comprehension Summary of the chapter a list of key terms and insightful questions as retention aids Past question papers with solution to equip students for future examinations **Real Time Operating Systems** RTOS Project Team, 1997 Real time operating system, 2005 **Real-Time Operating System Second Edition** Gerardus Blokdyk, 2018-08-08 What sources do you use to gather information for a Real time operating system study Which customers cant participate in our Real time operating system domain because they lack skills wealth or convenient access to existing solutions Will new equipment products be required to facilitate Real time operating system delivery for example is new software needed What are our Real time operating system Processes In what ways are Real time operating system vendors and us interacting to ensure safe and effective use Defining designing creating and implementing a process to solve a challenge or meet an objective is the most valuable role In EVERY group company organization and department Unless you are talking a one time single use project there should be a process Whether that process is managed and implemented by humans AI or a combination of the two it needs to be designed by someone with a complex enough perspective to ask the right questions Someone capable of asking the right questions and step back and say What are we really trying to accomplish here And is there a different way to look at it This Self Assessment empowers people to do just that whether their title is entrepreneur manager consultant Vice President CxO etc they are the people who rule the future They are the person who asks the right questions to make Real time operating system investments work better This Real time operating system All Inclusive Self Assessment enables You to be that person All the tools you need to an in depth Real time operating system Self Assessment Featuring 702 new and updated case based questions organized into seven core areas of process design this Self Assessment will help you identify areas in which Real time operating system improvements can be

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