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Question Paper Code: 71393

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2015.

Sixth Semester

Computer Science and Engineering

CS 2354/CS 64/10144 CS 604 - ADVANCED COMPUTER ARCHITECTURE

(Regulation 2008/2010)

Time: Three hours

Maximum: 100 marks

Answer ALL questions.

PART A
$$-(10 \times 2 = 20 \text{ marks})$$

- Briefly describe data hazards.
- 2. Point out the different types of data dependences.
- 3. Differentiate between VLIW and EPIC Processors.
- 4. Briefly describe about the Register Stack Mechanism in IA-64 Register model.
- 5. What is the use of branch prediction buffer?
- 6. Write a note on multiprocessor cache coherence.
- 7. Point out how RAID can improve the performance of I/O.
- 8. What is the need to implement memory as a hierarchy?
- 9. Enlist the features of SMT Architecture.
- Point out the advantages and disadvantages of heterogeneous multi-core processors.

PART B — $(5 \times 16 = 80 \text{ marks})$

 (a) Explain how compiler technology can be used to enhance a processor's ability to exploit ILP.

\mathbf{Or}

What are the different ways for branch prediction? Discuss how pipeline performance issues can be reduced by branch prediction.

Anna University Computer Architecture Question Paper

Padhraic Smyth

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Computer Fundamentals Manish Soni, 2024-11-13 In the vast landscape of modern technology understanding the fundamentals of computing is akin to possessing a master key that unlocks a world of possibilities This book dedicated to the exploration of computer fundamentals serves as your gateway to comprehending the intricacies of these ubiquitous machines Knowledge of computer fundamentals is not a mere luxury it is an indispensable tool in the arsenal of modern life Whether you re a seasoned professional seeking to deepen your understanding or a curious novice embarking on your first foray into the realm of computing this book is tailored to meet your needs As your companion in this voyage of discovery we offer not just knowledge but guidance Whether you seek to bolster your technical prowess embark on a career in technology or simply satiate your intellectual curiosity this book stands ready to accompany you every step of the way Computers have revolutionised the way we live work and communicate From smartphones and tablets to sophisticated data centres the impact of computing is felt in virtually every aspect of modern society A solid grasp of computer fundamentals not only empowers you to navigate this digital landscape with confidence but also opens doors to countless opportunities in various fields In this book we embark on a journey to explore the fundamental principles that underpin the world of computing Starting with a historical overview of the evolution of computers we delve into the essential components of computer hardware and software covering topics such as data representation operating systems networking logic gates and many more Now the question comes Who Should Read This Book The readership of a Computer Fundamental book extends beyond mere enthusiasts it caters to a diverse array of individuals whose pursuits intersect with the realms of technology and information Targeting a broad spectrum of learners this tome is indispensable for aspiring technocrats ambitious students enterprising professionals and curious minds alike Students traversing the hallowed halls of academia find solace in its pages as it encapsulates the requisite knowledge for mastering computer science fundamentals Armed with this arsenal of understanding they tackle assignments ace examinations and prepare themselves for the rigors of a burgeoning tech industry where innovation and adaptability reign supreme Seasoned professionals entrenched in the trenches of corporate warfare unearth in its depths a trove of wisdom to augment their skill set From IT consultants grappling with complex infrastructure dilemmas to cybersecurity experts fortifying digital fortresses against insidious threats this text serves as a beacon of enlightenment illuminating pathways to professional growth and excellence Ubiquitous Technologies for Human Development and Knowledge Management Rahman, Hakikur, 2021-04-23 In recent decades digital technologies have permeated daily routines whether at school at work or during personal engagements Stakeholders in education are promoting innovative pedagogical practices the business sector is utilizing updated processes Even the public is improving their lifestyles by utilizing innovative technology In a knowledge construction setting technology becomes a tool to assist the user to access information communicate information and collaborate with others towards human development and

knowledge management In this context ubiquitous computing has emerged to support humans in their daily life activities in a personal unattended and remote manner Ubiquitous Technologies for Human Development and Knowledge Management serves as an authoritative reference source for the latest scholarly research on the widespread incorporation of technological innovations around the globe It examines how the application of ubiquitous computing technologies affects various aspects of human lives specifically in human development and knowledge management. The chapters demonstrate how these ubiquitous technologies networks and associated systems have proliferated and have woven themselves into the very framework of everyday life It covers categorized investigations ranging from e governance knowledge management ICTs public services innovation and ethics This book is essential for ICT specialists technologists teachers instructional designers practitioners researchers academicians and students interested in the latest technologies and how they are impacting human development and knowledge management across different disciplines Operating System (For Anna) Rohit Khurana, 2011 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 Handbook of Research on Innovations and Applications of AI, IoT, and Cognitive Technologies Zhao, Jingyuan, Kumar, V. Vinoth, 2021-06-25 Recently artificial intelligence AI the internet of things IoT and cognitive technologies have successfully been applied to various research domains including computer vision natural language processing voice recognition and more In addition AI with IoT has made a significant breakthrough and a shift in technical direction to achieve high efficiency and adaptability in a variety of new applications On the other hand network design and optimization for AI applications addresses a complementary topic namely the support of AI based systems through novel networking techniques including new architectures as well as performance models for IoT systems IoT has paved the way to a plethora of new application domains at the same time posing several challenges as a multitude of devices protocols communication channels architectures and middleware exist Big data generated by these devices calls for advanced learning and data mining techniques to effectively understand learn and reason with this volume of information such as cognitive technologies Cognitive technologies play a major role in developing successful cognitive systems which mimic cognitive functions associated with human intelligence such as learning and problem solving Thus there is a continuing demand for recent research in these two linked fields The Handbook of Research on Innovations and Applications of AI IoT and Cognitive Technologies discusses the latest innovations and applications of AI IoT and cognitive based smart systems The chapters cover the intersection of these three fields in emerging and developed economies in terms of their respective development situation public policies technologies and intellectual capital innovation systems competition and strategies marketing and growth capability and governance and relegation models These applications span areas such as healthcare security and

privacy industrial systems multidisciplinary sciences and more This book is ideal for technologists IT specialists policymakers government officials academics students and practitioners interested in the experiences of innovations and applications of AI IoT and cognitive technologies Harnessing AI and Digital Twin Technologies in Businesses Ponnusamy, Sivaram, Assaf, Mansour, Antari, Jilali, Singh, Satyanand, Kalyanaraman, Swaminathan, 2024-07-26 The intersection of artificial intelligence AI and digital twin technology presents a problem and an unparalleled opportunity for transformation Businesses grapple with the need for operational excellence innovation and a competitive edge all while navigating the intricate web of data analytics decision making and real time monitoring In response to these challenges Harnessing AI and Digital Twin Technologies in Businesses emerges as an example of insight and guidance offering a comprehensive exploration of the complementary connection between AI and digital twin technology In a world where the convergence of these powerful tools transforms business intelligence enabling initiative taking decision making and dynamic simulations This book serves as a solution for decision makers technologists and researchers seeking to not only understand but harness the potential of AI powered digital twins to enhance productivity creativity and judgment in their operations **Algorithms and Applications** Tapio Elomaa, Heikki Mannila, Pekka Orponen, 2010-04-08 For many years Esko Ukkonen has played a major role in the advancement of computer science in Finland He was the key person in the development of the school of algorithmic research and has contributed considerably to post graduate education in his country Esko Ukkonen has over the years worked within many areas of computer science including numerical methods complexity theory theoretical aspects of compiler construction and logic programming However the main focus of his research has been on algorithms and their applications This Festschrift volume published to honor Esko Ukkonen on his 60th birthday includes 18 refereed contributions by his former PhD students and colleagues with whom he has cooperated closely during the course of his career The Festschrift was presented to Esko during a festive symposium organized at the University of Helsinki to celebrate his birthday The essays primarily present research on computational pattern matching and string algorithms two areas that have benefited significantly from the work of Esko Ukonen MOBILE COMPUTING Dr.J.Martin Sahayaraj, Dr. N.Dhasarathan, Dr. N.S.S Ramachandra Murthy, Dr. S.R. Boselin Prabhu, Dr. J. Suresh, 2019-09-12 Unit 1 Covers Mobile Computing Mobile Computing wireless Networking Mobile Computing Applications Characteristics of Mobile computing Structure of Mobile Computing Application MAC Protocols Wireless MAC Issues Fixed Assignment Schemes Random Assignment Schemes Reservation Based Schemes Unit 2 Covers Overview of Mobile IP Features of Mobile IP Key Mechanism in Mobile IP route Optimization Overview of TCP IP Architecture of TCP IP Adaptation of TCP Window Improvement in TCP Performance Unit 3 Covers Global System for Mobile Communication GSM General Packet Radio Service GPRS Universal Mobile Telecommunication System UMTS Unit 4 Covers Ad Hoc Basic Concepts Characteristics Applications Design Issues Routing Essential of Traditional Routing Protocols Popular Routing Protocols Vehicular Ad Hoc networks VANET MANET Vs VANET Security Unit

5 Covers Mobile Device Operating Systems Special Constrains Requirements Commercial Mobile Operating Systems Software Development Kit IOS Android BlackBerry Windows Phone M Commerce Structure Pros Cons Mobile Payment Scientific and Technical Aerospace Reports ,1993 System Security Issues Medical Image Computing and Computer Assisted Intervention - MICCAI 2024 Workshops Anna Schroder, Xiang Li, Tanveer Syeda-Mahmood, Neil P. Oxtoby, Alexandra Young, Alessa Hering, Tejas S. Mathai, Pritam Mukherjee, Sven Kuckertz, Tiantian He, Isaac Llorente-Saguer, Andreas Maier, Satyananda Kashyap, Hayit Greenspan, Anant Madabhushi, 2025-04-12 This book constitutes the proceedings from the workshops LDTM 2024 MMMI ML4MHD 2024 and ML CDS 2024 which were held in conjunction with the 27th International Conference on Medical Image Computing and Computer Assisted Intervention MICCAI 2024 in Marrakesh Morocco in October 2024 The papers included in this book stem from the following workshops LDTM 2024 Workshop on Longitudinal Disease Tracking and Modeling with Medical Images and Data which accepted 13 papers from 15 submissions MMMI ML4MHD 2024 the 5th International Workshop on Multiscale Multimodal Medical Imaging MMMI 2024 and the First Workshop on Machine Learning for Multimodal sensor Healthcare Data ML4MHD2024 from which 8 papers are included from a total of 14 submissions to the workshop ML CDS 2024 Workshop on Multimodal Learning and Fusion Across Scales for Clinical Decision Support which accepted 4 papers out of 5 submissions **Artificial Intelligence Methods in** Intelligent Algorithms Radek Silhavy, 2019-05-04 This book discusses the current trends in and applications of artificial intelligence research in intelligent systems Including the proceedings of the Artificial Intelligence Methods in Intelligent Algorithms Section of the 8th Computer Science On line Conference 2019 CSOC 2019 held in April 2019 it features papers on neural networks algorithms optimisation algorithms and real world issues related to the application of artificial methods

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