

COMPUTER ORGANIZATION AND DESIGN

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Supplying appendices with relevant details of integrated circuits reprinted from vendors manuals this book provides all of the necessary information to program and design a computer system **Designing Modern Embedded Systems: Software, Hardware, and Applications** Stefan Henkler, Márcio Kreutz, Marco A. Wehrmeister, Marcelo Götz, Achim Rettberg, 2023-06-10 This book constitutes the refereed proceedings of the 7th IFIP TC 10 International Embedded Systems Symposium IESS 2022 held in Lippstadt Germany during November 3 4 2022 The 10 full revised papers and 2 short papers presented were carefully reviewed and selected from 13 submissions The presented research and technical works cover system level design methods algorithms verification and validation techniques estimation of system properties and characteristics performance analysis and real time systems design Also the book presents industrial and real world application case studies that discuss the challenges and realizations of modern embedded systems especially when it comes to including artificial intelligence algorithms and techniques in embedded systems ***Information Technology in Business*** Amir Manzoor, 2012-03-19 Today s business is technology driven Information technology plays a key role in today s business environment A great number of businesses small and large rely on computers and software to provide accurate information for effective management of their business and to perform successfully Readers will learn how to use information technology in work environment They will learn how to use common business software such as word processing spreadsheet database presentation and Web browser software and learn the current issues related to the impact of information technology on businesses This book is suitable for undergraduate students professionals and anyone willing to build a solid foundation of the information technology skills needed at the workplace ***Fundamentals of Computer Organization and Architecture*** Mostafa Abd-El-Barr, Hesham El-Rewini, 2005-02-08 This is the first book in the two volume set offering comprehensive coverage of the field of computer organization and architecture This book provides complete coverage of the subjects pertaining to introductory courses in computer organization and architecture including Instruction set architecture and design Assembly language programming Computer arithmetic Processing unit design Memory system design Input output design and organization Pipelining design techniques Reduced Instruction Set Computers RISCs The authors who share over 15 years of undergraduate and graduate level instruction in computer architecture provide real world applications examples of machines case studies and practical experiences in each chapter ***System-Level Design of GPU-Based Embedded Systems*** Arian Maghazeh, 2018-12-07 Modern embedded systems deploy several hardware accelerators in a heterogeneous manner to deliver high performance computing Among such devices graphics processing units GPUs have earned a prominent position by virtue of their immense computing power However a system design that relies on sheer throughput of GPUs is often incapable of satisfying the strict power and time related constraints faced by the embedded systems This thesis presents several system level software techniques to optimize the design of GPU based embedded systems under various graphics and non graphics applications As compared to the conventional application level optimizations the system wide view of our proposed techniques brings about

several advantages First it allows for fully incorporating the limitations and requirements of the various system parts in the design process Second it can unveil optimization opportunities through exposing the information flow between the processing components Third the techniques are generally applicable to a wide range of applications with similar characteristics In addition multiple system level techniques can be combined together or with application level techniques to further improve the performance We begin by studying some of the unique attributes of GPU based embedded systems and discussing several factors that distinguish the design of these systems from that of the conventional high end GPU based systems We then proceed to develop two techniques that address an important challenge in the design of GPU based embedded systems from different perspectives The challenge arises from the fact that GPUs require a large amount of workload to be present at runtime in order to deliver a high throughput However for some embedded applications collecting large batches of input data requires an unacceptable waiting time prompting a trade off between throughput and latency We also develop an optimization technique for GPU based applications to address the memory bottleneck issue by utilizing the GPU L2 cache to shorten data access time Moreover in the area of graphics applications and in particular with a focus on mobile games we propose a power management scheme to reduce the GPU power consumption by dynamically adjusting the display resolution while considering the user s visual perception at various resolutions We also discuss the collective impact of the proposed techniques in tackling the design challenges of emerging complex systems The proposed techniques are assessed by real life experimentations on GPU based hardware platforms which demonstrate the superior performance of our approaches as compared to the state of the art techniques

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Edition David A. Patterson,John L. Hennessy,2016-05-06 The new ARM Edition of Computer Organization and Design features a subset of the ARMv8 A architecture which is used to present the fundamentals of hardware technologies assembly language computer arithmetic pipelining memory hierarchies and I O With the post PC era now upon us Computer Organization and Design moves forward to explore this generational change with examples exercises and material highlighting the emergence of mobile computing and the Cloud Updated content featuring tablet computers Cloud infrastructure and the ARM mobile computing devices and x86 cloud computing architectures is included An online companion Web site provides links to a free version of the DS 5 Community Edition a free professional quality tool chain

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